MARION COUNTY BOARD OF COMMISSIONERS

"Delivering Excellence Everyday"

Wednesday, May 20, 2026
Board Session 9:00 a.m.

Senator Hearing Room
555 Court Street NE, Salem

PUBLIC COMMENT

PROCLAMATION

BOARD OF COMMISSIONERS

1. Consider approval of a proclamation designating the month of May 2026 as Gold Star Awareness Month in Marion County. –Alvin Klausen

CONSENT

BOARD OF COMMISSIONERS

OLCC License – Recommended Approval

2. Sosa Ventures, LLC, dba, Micheladas Y Antojitos El Perico – Salem, Oregon

CLERK'S OFFICE

3. Approve Amendment #1 to the Contract for Services with Creative Security, Inc. to add $80,000 for a new contract total of $155,000 and extend the term date to December 31, 2027, for security services to support Marion County elections.

COMMUNITY AND ECONOMIC DEVELOPMENT

4. Approve a resolution to establish the Community and Economic Development Tourism Grant Program for the benefit of residents and economic development in Marion County and replace the previously established resolution 26R-5 that was approved on March 25, 2026.

HEALTH AND HUMAN SERVICES

5. Approve Amendment #1 to the incoming funds Future Ready Oregon (FRO) Bilingual Behavioral Health Initiative Subaward with Western Oregon University (WOU) to decrease federal grant funding in the amount of $115,087.72 for a new subaward total of $388,706.07 utilized to provide real world earn-to-learn apprenticeship experiences for students' identified and referred to WOU, through June 30, 2026.

LEGAL COUNSEL

6. Approve the ratification of board order 26-043 pertaining to a Memorandum of Understanding (MOU) with the United States Bureau of Land Management (BLM) signed at a public meeting held on March 17, 2026.

PUBLIC WORKS

7. Receive notice of the hearings officer's decision approving Zone Change / Subdivision Case #26-002 / Antonio Diaz.

8. Approve an order authorizing the expenditure of county road funds for emergency maintenance activities on Kubin Road SE, a local access road located in the unincorporated area of Marion County.

9. Approve an Intergovernmental Agreement (IGA) with Yamhill County that replaces a 2003 agreement and specifies the cost sharing provisions between the counties for Marion County's operation and maintenance of the Wheatland Ferry effective July 1, 2026.

10. Approve a Construction Contract with Summit Solutions Group, LLC, in the amount of $242,470 to provide construction and other site improvements for up to six existing radio communications sites for the Marion County Radio Project that will be utilized by first responders through July 31, 2026.

SHERIFF'S OFFICE

11. Approve the All-Terrain Vehicle (ATV) Grant Program Agreement with the Oregon Parks and Recreation Department in the amount of $243,490 of which an estimated $194,792 will utilize incoming grant funding and an estimated $48,698 will utilize county funds to provide one full time position dedicated to patrolling areas open to off highway vehicles within Marion County effective July 1, 2026, through June 30, 2027.

12. Approve Amendment #2 to the incoming funds Intergovernmental Cooperative Agreement with the Oregon State Marine Board (OSMB) to add $63,193.50 for a new agreement total of $397,588.50 to provide law enforcement services related to recreational boating through June 30, 2027

TAX OFFICE

13. Approve an order for a property tax refund for the City of Keizer, tax account 519938, in the amount of $34,318.12.

ACTION

None.

PUBLIC HEARINGS
Starting no earlier than 9:00 a.m.

PUBLIC WORKS

A. Public hearing to consider Zone Change / Comprehensive Plan Change Case #26-001 / TIBA, Incorporated. –Alex Seifer

Members of the public may submit written testimony by email to PublicHearings@co.marion.or.us For agenda items where in-person testimony is allowed, the public may sign up to provide testimony by telephone by emailing PublicHearings@co.marion.or.us at least 24 hours before the meeting. The email must specify the meeting date/time and agenda topic for which testimony is being submitted. For telephone testimony requests, the email must also include your name and the phone number that staff should use to call you at the appropriate time.

If you require interpreter assistance, an assistive listening device, large print material or other accommodations, call 503-588-5212 at least 48 hours in advance of the meeting. TTY 503-588-5168 Si necesita servicios de interprete, equipo auditivo, material copiado en letra grande, o culaquier otra acomodacion, por favor llame al 503-588-5212 por lo menos 48 horas con anticipacion a la reunion. TTY 503-588-5168 Marion County is on the Internet at: www.co.marion.or.us

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: 5/20/2026

Department: Board of Commissioners

Title: Gold Star Awareness Month

Management Update/Work Session Date: 5/5/2026 **Audio/Visual aids** ☐

Time Required: 15 Min **Contact:** Alvin Klausen **Phone:** 5035883563

Requested Action: Consider a proclamation declaring the month of May 2026 as Gold Star Awareness Month in Marion County.

Issue, Description & Background: Gold Star Family Awareness Month honors the families of our nation's fallen service members who have made the unimaginable sacrifices in defense of our country. It is a time to recognize the strength, resilience, and enduring legacy of Gold Star families, while ensuring their loved ones are never forgotten. The month serves as a reminder that the cost of freedom is carried not only by those who serve, but also by the families who stand beside them.

Financial Impacts: None

Impacts to Department & External Agencies: None

List of attachments: Proclamation honoring Gold Star Families

Presenter: Alvin Klausen

Department Head Signature:

BEFORE THE BOARD OF COMMISSIONERS
FOR MARION COUNTY, OREGON

In the matter of proclaiming the month of May 2026 as Gold Star Awareness Month in Marion County:

PROCLAMATION

This matter came before the Marion County Board of Commissioners at its regularly scheduled public meeting on May 20, 2026.

WHEREAS, Gold Star Families are those families who have lost a loved one while on active duty in service to the United States Armed Forces, bearing a profound and enduring sacrifice on behalf of our nation; and

WHEREAS, it is the duty of Marion County to recognize and honor the families who carry the legacy of those who made the ultimate sacrifice in defense of freedom; and

WHEREAS, Gold Star Families Memorial Monuments, like those established through the vision of Medal of Honor recipient Hershel "Woody" Williams and the Woody Williams Foundation, provide permanent places of remembrance, reflection, and education for communities to honor fallen service members and their families; and

WHEREAS, on February 7, 2026, the City of Keizer, located within Marion County, became the first community in the State of Oregon to host a Woody Williams Foundation Gold Star Families Memorial Monument, demonstrating leadership in honoring and supporting Gold Star Families from Oregon and across our region; and

WHEREAS, these memorials stand as enduring symbols of gratitude and serve to educate the public about the sacrifices made by Gold Star Families, ensuring their loved ones are never forgotten; and

WHEREAS, designating the month of May as Gold Star Families Month provides an opportunity for all residents of Marion County to reflect, remember, and express appreciation for these families; and

NOW, THEREFORE, the Marion County Board of Commissioners do hereby proclaim the month of May 2026 as "**Gold Star Families Month**" in Marion County and encourages all residents to honor Gold Star Families through remembrance, education, and acts of gratitude.

Dated at Salem, Oregon, this 20th day of May 2026

MARION COUNTY BOARD OF COMMISSIONERS

Marion County
OREGON

_____
Chair

_____
Commissioner

_____
Commissioner

MARION COUNTY

PROCLAIMS

MAY

AS

GOLD STAR FAMILIES

AWARENESS MONTH

We honor the Gold Star Families—
those who have sacrificed so much in service to our nation.
Their strength, resilience, and love
will never be forgotten.

★ HONOR. REMEMBER. SUPPORT. ★


Gold Star
Families
Memorial
Monument
A tribute to
Gold Star
Families
and
Relatives
who sacrificed
a Loved One
for our Freedom.


FREEDOM ISN'T FREE
KEIZER
SINCE 1982
Homeland
Family
Patriot
POW•MIA
YOU ARE NOT FORGOTTEN
NOT ALL WOUNDS ARE VISIBLE
Sacrifice





Oregon’s First Woody Williams Gold Star Families Memorial Monument

PFC Ryan J. Hill Park

Keizer Station Blvd, Keizer, OR 97303

BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF MARION COUNTY, STATE OF OREGON

NO. 20173

In the Matter of the Application of

For a recommendation regarding the application to the Oregon Liquor Control Commission for

RECOMMENDATION

RECEIVED
MAY 11 2026
MARION COUNTY
BOARD OF COMMISSIONERS

This matter coming before the Board of County Commissioners on the application of Sosa Ventures LLC for a recommendation to the Oregon Liquor Control Commission under the provisions of ORS 471.166; and the Board having referred said application to the Sheriff of Marion County, Oregon, and having the report of said Sheriff that the applicant has not been convicted of a crime involving a violation of the liquor control laws, or the gambling laws, or of crimes involving moral turpi-tude, and that the applicant is of good moral character, a citizen of the United States of America, and otherwise qualified to be licensed under the Oregon Liquor Control Act;

IT IS, THEREFORE RECOMMENDED TO THE OREGON LIQUOR CONTROL COMMISSION that the application of the above be refused_____ granted_____.

Dated at Salem, Marion County, Oregon this _____day of _____, 20_____.

_____County Commissioner

_____County Commissioner

_____County Commissioner

Approved by _____
County Sheriff

OREGON LIQUOR & CANNABIS COMMISSION

Local Government Recommendation – Liquor License

Annual Liquor License Types	
Off-Premises Sales	Brewery-Public House
Limited On-Premises Sales	Brewery
Full On-Premises, Caterer	Distillery
Full On-Premises, Commercial	Grower Sales Privilege
Full On-Premises, For Profit Private Club	Winery
Full On-Premises, Non Profit Private Club	Wholesale Malt Beverage & Wine
Full On-Premises, Other Public Location	Warehouse
Full On-Premises, Public Passenger Carrier	

Section 1 – Submission – To be completed by Applicant:

Legal Entity/Individual Applicant Name(s): Sosa Ventures LLC

Proposed Trade Name: Micheladas Y Antojitos El Perico

Premises Address: 686 Lancaster Dr NE Unit:

City: Salem County: Marion Zip: 97301

Application Type: (•) New License Application ( ) Change of Ownership ( ) Change of Location

License Type: Full On Premisises - Commercial [ ] Additional Location for an Existing License

Contact Name: Eric Sosa Phone: [redacted]

Mailing Address: 4004 Fairview Industrial Dr SE

City: Salem State: OR Zip: 97302

Email Address: [redacted]

Please check all that apply to your proposed business operations at this location:

[ ] Manufacturing/Production

[ ] Retail Off-Premises Sales

[■] Retail On-Premises Sales & Consumption

If there will be On-Premises Consumption at this location:

[■] Indoor Consumption [ ] Outdoor Consumption

[■] Proposing to Allow Minors

Section 1 continued on next page

Permit # P00428

OREGON LIQUOR & CANNABIS COMMISSION

Local Government Recommendation – Liquor License

Section 1 Continued – Submission - To be completed by Applicant:

Legal Entity/Individual Applicant Name(s): Sosa Ventures LLC

Proposed Trade Name: Micheladas Y Antojitos El Perico

IMPORTANT: You MUST submit this form to the local government PRIOR to submitting to OLCC. Section 2 must be completed ***by the local government*** for this form to be accepted with your CAMP application.

Section 2 – Acceptance - To be completed by Local Government:

Local Government Recommendation Proof of Acceptance

After accepting this form, please return a copy to the applicant with received and accepted information

City or County Name: Marion County

Optional Date Received Stamp

Marion County Clerk Bill Burgess
5 MAY '26 PM4:32

Date Application Received: 05/05/26

Received by: Madison Duarte

Section 3 – Recommendation - To be completed by Local Government:

- ○ **Recommend this license be granted**
- ○ **Recommend this license be denied** (Please include documentation that meets OAR 845-005-0308)
- ○ **No Recommendation/Neutral**

Name of Reviewing Official:

Title:

Date:

Signature:

After providing your recommendation and signature, please return this form to the applicant.

OREGON LIQUOR & CANNABIS COMMISSION

BUSINESS INFORMATION – LIQUOR LICENSE

Applicant Name	Eric Sosa
Trade Name	Micheladas Y Antojitos El Perico
Premises Street Address	686 Lancaster Dr NE Salem, OR 97301
License Type	Full Nn-Premises - Commercial

Business Contact	Eric Sosa
Mailing Address	4004 Fairview Industrial Dr SE Salem, OR 97302
Phone Number	[redacted]
Email Address	[redacted]

Operating Hours

Day of Week	Open Time	Closed Time	Seasonal Variation	Explanation
Monday	11AM	9PM	Yes ☐	
Tuesday	11AM	9PM		
Wednesday	11AM	9PM		
Thursday	11AM	9PM		
Friday	11AM	10PM		
Saturday	11AM	10PM		
Sunday	11AM	9PM		

☐ Not open to the public or by appointment only

Seating

Restaurant Seating: 36 Outdoor Seating: 24 Other Seating: _____

☐ No On-Premises Consumption

ENTERTAINMENT

Check all that apply:

- ☐ Live Music
- ☒ Recorded Music
- ☐ DJ Music
- ☐ Dancing
- ☐ Karaoke
- ☐ Coin-operated Games
- ☐ Social Gaming
- ☐ Pool Tables
- ☐ Video Lottery Machines
- ☐ Nude Dancing
- ☐ Live Entertainment
- ☐ Minor Entertainers
- ☐ Minor Entertainers in an Area Prohibited to Minors **Need prior OLCC approval
- ☐ Other:

MARION COUNTY
BILL BURGESS
MARION COUNTY CLERK

Receipt #: 92660
Station: 1
Receipt Name: SOSA VENTURES

Receipt Date: 05/05/2026 04:30 PM
Cashier: MD1

Comments: 686 LANCASTER DR NE SALEM, OR 97301

Miscellaneous Fees		
LIQUOR LICENSE FEE	YES	$25.00

Receipt Total	**$25.00**
CASH	$25.00

Thank You!
BILL BURGESS, MARION COUNTY CLERK

Please retain this receipt for your records.

Documents are recorded as submitted. The Marion County Clerk's Office assumes no liability for sufficiency, validity, or accuracy.

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Clerk's Office

Title: Elections Security Services

Management Update/Work Session Date: March 31, 2026 **Audio/Visual aids** ☐

Time Required: 5 minutes **Contact:** Bill Burgess **Phone:** 503-588-3579

Requested Action:
Approve Amendment 1 of the Contract for Services to extend the end date to December 31, 2027 and add funds in the amount of $80,000.00 to accommodate the additional timeframe.

Issue, Description & Background:
This contract is established pursuant to ORS 279B.060 and MCPCR 20-0260 and is a result of Request for Proposal CO1323-23 for Elections Security Services to support Marion County Elections through 2026.

Amendment 1 extends the end date to December 31, 2027 and add funds in the amount of $80,000.00.

Financial Impacts:
Adds $80,000 for a new contract total of $155,000.00.

Impacts to Department & External Agencies:

List of attachments: CRS, Amendment 1, Original Contract

Presenter: Bill Burgess

Department Head Signature:
Bill Burgess (May 1, 2026 17:02:51 MDT)

Contract Review Sheet

Contract for Services **CO-5455-23 - Am1**

Title: **Elections Security Services**

Contractor's Name: **Creative Security, Inc.**

Department: **Clerk's Office** Contact: **Sandra Fixsen**

Analyst: **Sandra Fixsen** Phone #: **(503) 373-4479**

Term - Date From: **upon execution** Expires: **December 31, 2027**

Original Contract Amount: **$ 75,000.00** Previous Amendments Amount: **$ -**

Current Amendment: **$ 80,000.00** New Contract Total: **$ 155,000.00** Amd% **107%**

Outgoing Funds ☐ Federal Funds ☐ Reinstatement ☐ Retroactive ☑ Amendment greater than 25%

Source Selection Method: **20-0260 Request for Proposal** RFP# **CO1323-23**

Description of Services or Grant Award

Security Services to support Marion County Elections.

Amendment 1 extends the contract to December 31, 2027 and adds funds in the amount of $80,000.00 to accommodate the additional timeframe.

Desired BOC Session Date:	**5/20/2026**	Contract should be in DocuSign by:	**4/29/2026**
Agenda Planning Date	**5/7/2026**	Printed packets due in Finance:	**5/5/2026**
Management Update	**3/31/2026**	BOC upload / Board Session email:	**5/6/2026**

BOC Session Presenter(s) **Bill Burgess** Code: **Y**

REQUIRED APPROVALS

Sandra L. Fixsen	04/28/2026		
Finance - Contracts	Date	Contract Specialist	Date
Andrew Stellendorf	05/01/2026	Jan Fritz Jan Fritz (May 1, 2026 20:43:44 PDT)	05/01/2026
Legal Counsel	Date	Chief Administrative Officer	Date

AMENDMENT 1 to CO-5455-23
the CONTRACT FOR SERVICES
between
MARION COUNTY and CREATIVE SECURITY, INC.

This is Amendment 1 to the Contract for Services (as amended from time to time, the "Contract"), dated June 01, 2023 between Marion County, a political subdivision of the State of Oregon, hereinafter called County, and Creative Security, Inc., hereafter called Contractor.

RECITALS

WHEREAS, this contract is established pursuant to ORS 279B.060 and MCPCR 20-0260.

WHEREAS, County issued a Request for Proposals CO1323-23 for Elections Security services to support Marion County Elections on March 15, 2023.

WHEREAS, Contractor submitted a Proposal in response to CO1323-23 on April 19, 2023, which was determined to be responsive.

WHEREAS, Amendment 1 adds funds in the amount of $80,000.00 and extends the contract end date to December 31, 2027.

The Contract is hereby amended as follows (new language is indicated by underlining and deleted language is indicated by ~~strikethrough~~):

1. TERM. This Contract expires on December 31, 2027~~May 31, 2026~~.

2. CONSIDERATION.

A. The maximum, not-to-exceed compensation payable to Contractor under this Contract, which includes any allowable expenses, is $155,000.00~~75,000.00~~. County will not pay Contractor any amount in excess of the not-to-exceed compensation of this Contract for completing the Work and will not pay for Work performed before the date this Contract becomes effective or after the termination of this Contract. If the maximum compensation is increased by amendment of this Contract, the amendment must be fully effective before Contractor performs Work subject to the amendment.

EXHIBIT A
STATEMENT OF WORK

2. COMPENSATION. The total amount available for payment to Contractor under Exhibit A, section 2.A and for authorized reimbursement to Contractor under Exhibit A, section 2.C is $155,000.00~~75,000.00~~.

A. METHOD OF PAYMENT FOR SERVICES: County shall pay Contractor the amounts specified for each of the following deliverables and goods that County has accepted:

~~i. 30 per labor hour~~

i. $35.00 per hour with a 4-hour minimum through December 31, 2026.

ii. $36.00 per hour with a 4-hour minimum January 1, 2027 through December 31, 2027.

iii. $0.70 per mile driven in support of the work using Contractor-owned or personal vehicles.

Except as expressly amended above, all other terms and conditions of the original Contract and any previously executed amendments are still in full force and effect. Contractor certifies that the representations, warranties and certifications contained in the original Contract are true and correct as of the effective date of this Amendment and with the same effect as though made at the time of this Amendment.

MARION COUNTY SIGNATURES
BOARD OF COMMISSIONERS:

Chair	Date
Commissioner	Date
Commissioner	Date
Authorized Signature: Bill Burgess (May 1, 2026 17:02:51 MDT)	05/01/2026
Department Director or designee	Date
Authorized Signature: Jan Fritz (May 1, 2026 20:43:44 PDT)	05/01/2026
Chief Administrative Officer	Date
Reviewed by Signature:	05/01/2026
Marion County Legal Counsel	Date
Reviewed by Signature:	04/28/2026
Marion County Contracts & Procurement	Date

CREATIVE SECURITY, INC. SIGNATURE

Authorized Signature: _____

Date

Title: _____

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Community and Economic Development

Title: Tourism Grant Program Resolution

Management Update/Work Session Date: May 5, 2026 **Audio/Visual aids** ☐

Time Required: 5 min **Contact:** Brian Smith **Phone:** 503-588-5234

Requested Action: Approve the resolution that establishes a Tourism Grant Program for Marion County and replaces the previously established Resolution 26R-5 which was approved on March 25, 2026.

Issue, Description & Background: At the May 20, 2026 Board Session, the Board of Commissioners will have the opportunity to consider approval of the updated Tourism Grant Program Resolution which removes the reference to the program instructions and timeline, enabling administrative updates without requiring a formal amendment.

At the May 5, 2026 Management Update, the Board of Commissioners directed staff to bring forward the Tourism Grant Program amendment to a Board Session for approval.

Financial Impacts: This Resolution does not modify the previously approved budget allocation for the tourism grant program. Funding for the Tourism Grant Program is in the Economic Development FY 26-27 budget allocating $200,000 of Video Lottery towards the program.

Impacts to Department & External Agencies: There will be minimal impact on the Economic Development Program, as the program previously coordinated the agreements with external agencies regarding tourism marketing in Marion County. Anticipated impacts to external agencies will be minimal and comprised mostly of writing an application and subsequent reports for awardees.

List of attachments: 1. Tourism Grant Program Resolution, 2. Tourism Grant Criteria and Instructions Document

Presenter: Sarah Coutley, Economic Development Specialist

Department Head Signature: Kelli Wurse

BEFORE THE BOARD OF COMMISSIONERS
FOR MARION COUNTY, OREGON

In the matter of establishing the Community and Economic Development Tourism Grant Program for the benefit of the residents and the economic development of Marion County	)))))

RESOLUTION NO. _____

This matter came before the Marion County Board of Commissioners at a regular public meeting on May 20, 2026 concerning the formation of the Marion County Tourism Grant Program and replaces Resolution 26R-5 which was established and adopted on March 25, 2026; and

WHEREAS, The Marion County Community and Economic Development Department's Economic Development Program is charged with supporting Marion County's Economic Development efforts including tourism; and

WHEREAS, The Marion County Economic Development program supports efforts that serve to create a healthy economic environment for residents and businesses to grow and thrive; and

WHEREAS, The Marion County Board of Commissioner's recognize that unique issues effect tourism at the local level and are often best addressed with local expertise such as Destination Management Organizations, Chambers of Commerce, and Cities; and

WHEREAS, the Community and Economic Development Tourism Grant Program provides for a method and process for distributing funding where necessary to meet Marion County's economic development and tourism priorities and needs.

BE IT RESOLVED that the Marion County Board of Commissioners establishes the Community and Economic Development Tourism Grant Program.

DATED this 20th day of May 2026.

MARION COUNTY BOARD OF COMMISSIONERS

_____
Chair

_____
Commissioner

_____
Commissioner

Community and Economic Development Tourism Grants (TGs)

Criteria and Instructions

4.30.2026

Section 1: Purpose

The Community and Economic Development Tourism Grants (TGs) provide grant funding to promote Marion County tourism priorities by funding Marion County Destination Management Organizations, Chambers, Cities, non-profit organizations, and for-profit businesses. Funds are available to organizations operating within Marion County implementing tourism related activities that benefit Marion County.

Section 2: Award Amounts

TGs are awarded pending funding availability. Awards will be made up to the following amounts:

- Salem Metro Area Grant
  - The Salem Metro Area Grant will primarily focus on the Salem Metro area, which must include the City of Salem and may include surrounding cities, such as Keizer or Turner.
  - This award will be granted to a single organization responsible for tourism marketing in the Salem Area through a three-year grant agreement with allocations of $100,000 per year, for a total grant award of $300,000 over 3 years.
- North Marion Region Grant
  - The North Marion Region Grant will primarily focus on the North Marion area, which includes the cities of Aurora, Brooks, Donald, Hubbard, Gervais, Mt. Angel, Silverton, St. Paul, and Woodburn.
  - This award will be granted to a single organization responsible for tourism marketing in the North Marion Region through a three-year grant agreement with allocations of $50,000 per year, for a total grant award of $150,000 over 3 years.
- Marion County Grant for Chambers, Cities, non-profit organizations, and businesses:
  - The Marion County Grant is open to any tourism marketing project that focuses on Marion County.
  - This award(s) will be distributed each year and may be divided among multiple recipients, with a total combined amount of up to $50,000 available each year.

Note: Only 10% of a TG budget can be spent on administrative costs, if such costs are incurred solely to support the grant-funded activity. Administrative costs are defined as expenses related to the general management and oversight of the grant, such as accounting, reporting, recordkeeping, and other activities that support, but are not directly tied to, the program activity.

Section 3: Application Period

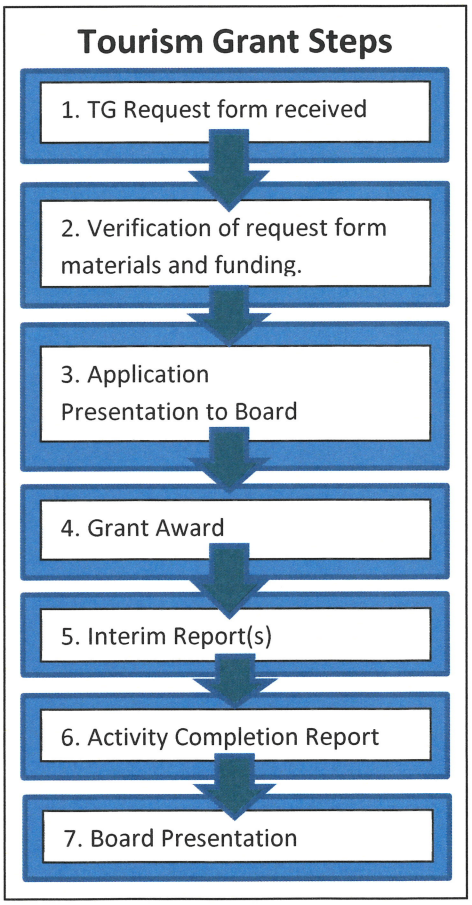
The following outlines the grant application timeline:

- January – Application period
- March-April – Review applications with the Board
- May-June – Notify awardees and begin contract development
- July – Funding begins

NOTE: The dates are intended as a general guide. Marion County reserves the right to adjust the timeline as needed to accommodate Board schedules, application volumes, or other administrative considerations. Funding and timeline are subject to availability of funds. Any significant changes will be communicated to applicants and the Board in a timely manner.

Section 4: Criteria

The following criteria shall be used to evaluate all applications:



1. The applicant must be an organization operating in Marion County and registered with the Secretary of State.
2. The activity must meet a tourism-related priority or need such as:
    a. Attracting visitors and/or extending visitor stays.
    b. Promoting the region as a destination.
    c. Developing, supporting and/or improving access to tourism infrastructure.
    d. Developing and/or promoting tourism attractions or events.
    e. Strengthening the local tourism economy through measurable economic benefits for local businesses, attractions and communities.
3. The activity must further economic development through tourism in Marion County by meeting the requirements of ORS 461.540 through the following:
    a. Creating jobs in Marion County.
    b. Furthering economic development in Marion County by:
        i. Providing services or financial assistance to community development activities or projects that benefit the Marion County economy as defined by ORS 285B.410.
        ii. Providing services or financial assistance for facilities, physical environments or development activities, as defined in ORS 285B.410, that benefit the Marion County economy.
        iii. Providing services or financial assistance to businesses or industry associations to promote, expand or prevent the decline of their businesses.
4. The activity must demonstrate community support through community partnerships, letters of support, other funding sources, or other methods.

5. The activity must have completed a TG Form submitted through the Marion County Community and Economic Development Department as outlined in Section 6.
6. Upon invitation, applicants will give a presentation to the Board of Commissioners.
7. The Marion County Board of Commissioners will select the award recipients.

Section 5: Award Reporting

Organizations awarded funds under TGs must complete reports as outlined below. Report templates will be provided to organizations awarded funds.

1. Interim Report(s): Required for activities lasting seven months or longer. The organization must submit a written report within six months of receipt of award and every six months thereafter until the end of the project grant agreement. This report must contain the following:
    a. A budget narrative describing the use of the funds including income or revenues and expenditures which are specifically applicable to the activity.
    b. Activity report detailing a high-level overview of progress to date, key achievements, main issues or challenges with implementation, and next steps.
    c. Any proposed changes to use of funds.
    d. If available, pictures, clips, quotes, or narratives from award participants of the activity.
    e. If TG funds are being used as part of grant matching funds, describe the whole project and the part of the project the Tourism Grant is funding.
    f. Geographic use of funds within Marion County (by zip code, city, or other method).
    g. Metrics on the activity such as website traffic and/or social media engagement, changes in employment levels in tourism-related sectors, visitor spending data and economic impact reports, increase in lodging tax revenue, community sentiment and perception of tourism, etc.
2. Final Report / Annual Report: Required for all activities regardless of activity duration, to be completed annually for multi-year agreements, or prior to activity completion. The organization must prepare a written final / annual report and appear before the Marion County Board of Commissioners at a regularly scheduled meeting or work session to present a short oral report (no more than 10 minutes) on the results of the activity. The report and presentation shall include the information required for the Interim report (see section 5.1 above) as well as:
    a. Narrative on the success of the activity including how the activity supported tourism in the community.
    b. Picture(s) of completed activity or work to date.
    c. Proof of acknowledgement of Marion County funding support such as inclusion of County logo on promotional materials.
3. Failure to Report/Inappropriate Use of Funds: Failure to comply with the reporting requirements as outlined may result in suspension or full revocation of funds. It is the responsibility of the awarded organization to monitor use of funds and ensure the funds are expended in compliance with the requirements as described herein. Should County identify incorrectly applied funds, County shall notify the awarded organization and awarded organization shall, within thirty (30) calendar days of receiving notice, make full repayment to Marion County. Should the awarded organization identify any incorrectly applied funds, the awarded organization must notify the County within ten (10) calendar days of the discovery and shall, within thirty (30) calendar days of notification, make full repayment to Marion County.

Section 6: Instructions

TGs must be submitted through the Marion County Community and Economic Development Services Department as follows:

1. Submit the information listed below to Marion County Community and Economic Development Services.
    a. Completed TG Request Form
    b. Metrics Document
    c. Budget Narrative
    d. Supplemental Materials
    e. Current W-9
2. Email applications to Sarah Coutley:
    a. To: scoutley@co.marion.or.us
    b. Cc: csreporting@co.marion.or.us
3. Once application and supplemental materials are received, staff will review the application materials. Upon funding availability, Marion County will either seek further information or begin an award process.

TG Form Instructions

1. **Organization Name** – The organization/business/entity requesting funding.
2. **Executive Officer Name** – The highest-ranking executive in the organization, with responsibility for making decisions and potentially signing award documents.
3. **Contact Person / Title** – The name and title of the person in overall charge of the planning and execution of the activity for which the funding is requested and main point of contact.
4. **Address** - Put the physical address for the contact person and the mailing address if different.
5. **Contact email** - Put the email for the contact person for the activity.
6. **Contact phone number** – Put the phone number for the contact person.
7. **Activity Name** – Name to distinguish the activity from other requests.
8. **Purpose of Funding Request** – Short narrative outlining the activity and use of funds including identified issue(s) being solved, and the general scope of work for the activity and how the organization will determine the success of the activity at the end.
9. **Indicate how the activity meets tourism related needs in Marion County** – Check all boxes applicable and explain why these activities meet these needs in the box below.
10. **Total Activity Cost** – Provide an estimate of the total activity cost. The funding award will be based on the actual activity costs. Payment may be made as either an upfront payment or on a reimbursement basis pending organizational needs and County decisions. It may include timelines or other deliverables.
11. **Amount Requested** – Provide a figure of the total amount of funds requested to complete the activity. If these funds are for grant matching funds, include a copy of the grant application and explain how the various funding streams are used in this activity.
12. **Geographic Area(s) Served** – Provide a list of all counties, cities, and/or unincorporated areas which will benefit from this investment.
13. **Other Partners** – Provide a list of other organizations participating in the activity.
14. **Activity or Start Date/End Date** – Provide an estimated timeline of when the activity will start and be completed.
15. **Additional Required Information**
    a. Metrics Worksheet: include the Metrics Worksheet attachment that explains how the organization will track progress and/or impact of the work or project. For example, will the work or project impact lodging taxes, visitor spending, employment levels, community sentiments

about the activity, or increase social media traffic? Check the box to indicate you have enclosed the Metrics Worksheet attachment to the application.

b. Budget Narrative and Table: attach a budget narrative that provides a brief explanation about the proposed expense so that it is clear what is being purchased or paid and a budget table. The required Budget Table Template is provided.
c. Supplemental Information: include attachments for W9, maps, letters of support, or any other item that may help explain the activity.

Questions/Information

For questions or additional information, please contact Community and Economic Development Department via phone at 503-589-3276 or email Sarah Coutley at scoutley@co.marion.or.us

Community and Economic Development Tourism Grant (TGs) Request Form

Organization Name:			
Executive Officer Name:		**Contact Person and Title:**	
Address:		**Mailing Address:**	
Contact Email:		**Phone Number:**	
Activity Name:			
Purpose of Funding Request:			
Total Activity Cost:		**Amount Requested:**	
Geographic Area(s) Served:			
Other Partners:			
Activity Start Date:		**Activity End Date:**	
Please indicate how the activity meets tourism-related needs in Marion County. Check all boxes that apply and explain briefly how they meet tourism needs.	☐ Attracting Visitors ☐ Destination Promotion ☐ Event Development ☐ Strengthening Tourism Economy ☐Tourism Infrastructure Development	**Briefly explain how the activity meets tourism-related needs:**	
Please indicate how the activity supports economic development in Marion County (check all boxes that apply). **ORS 461.540**	☐ Supports the creation of new jobs in Oregon ☐ Helps prevent the loss of existing jobs in Oregon ☐ Assists with work transition and/or training of workers in Oregon ☐ Provides services or financial assistance to support Oregon businesses	**Briefly explain how the activity supports development in Marion County:**	

Additional Information Required:		
☐ Metrics worksheet attched	☐ Budget Narrative attached - *The required 1) Budget Narrative and 2) Budget Table template is complete and attached to the application.*	☐ Supplemental Materials attached, with current W-9 - *Examples: Activity description, maps, etc.; Letter(s) of support; or other information that helps to describe the purpose and need of the funds.*

Name of Applicant:	
Signature and date:	

Tourism Grant Budget Table

Instructions: Complete the following budget table and include it with the budget narrative. Add more lines to the Project Expenses section as needed.

Description	Amount
Total grant amount request	**$**
Project Expenses	
Expense 1	$
Expense 2	$
Expense 3	$
Expense 4	$
Expense 5	$
TOTAL EXPENSES	**$**

Metrics Worksheet

Instructions: How will you measure the success of the marketing activity? For each Economic Development category box checked in the application, list the measure(s) associated with each category.

Category	Metric
Attracting Visitors	
Destination Promotion	
Event Development	
Strengthening Tourism Economy	
Tourism Infrastructure Development	
Supports the creation of new jobs in Oregon	
Helps prevent the loss of existing jobs in Oregon	
Assists with work transition and/or training of workers in Oregon	
Provides services or financial assistance to support Oregon businesses	

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: 5/20/2026

Department: Health & Human Services

Title: Future Ready Oregon Bilingual Behavioral Health Initiative Am1

Management Update/Work Session Date: 5/12/2026 **Audio/Visual aids** ☐

Time Required: 10 mins **Contact:** Lyndsie Schwarz **Phone:** 503-584-4898

Requested Action: Approval of amendment to decrease grant funds.

Issue, Description & Background: Marion County Health & Human Services (MCHHS) is a subrecipient of the Future Ready Oregon (FRO) federal grant award to Western Oregon University (WOU) for Temporary Qualified Mental Health Associates (QMHA) eligible Staffing Plan. MCHHS will participate in the recruitment process via on-boarding and managing temporary staff eligible for QMHA-R (Registered) credentialing. MCHHS will provide real-world earn to learn apprenticeship experiences for students identified and referred to WOU. The apprenticeship experience may include providing case management, skills training, and group facilitation for youth and adults with the aim of supporting the students in being ready to enter the workforce in the behavioral health field upon graduation. Amendment 1 decreases federal funds in the amount of ($115,087.72).

Financial Impacts: Decrease in incoming federal funds in the amount of ($115,087.72) from $503,793.79 for a new grant award total of $388,706.07.

Impacts to Department & External Agencies: N/A

List of attachments: Amendment 1, Original Grant Agreement

Presenter: Phil Blea

Department Head Signature: Troy Gregg
Troy Gregg (May 5, 2026 14:24:58 PDT)

Contract Review Sheet

Grant Agreement **HE-6457-25 - Am1**

Title: **Future Ready Oregon Bilingual Behavioral Health Initiative - Subaward**

Contractor's Name: **Western Oregon University**

Department: **Health and Human Services** Contact: **Lyndsie Schwarz**

Analyst: **Chalyce MacDonald** Phone #: **(503) 584-4898**

Term - Date From: **March 1, 2025** Expires: **June 30, 2026**

Original Contract Amount: **$ 503,793.79** Previous Amendments Amount: **$ 0.00**

Current Amendment: **$ (115,087.72)** New Contract Total: **$ 388,706.07** Amd% **-23%**

Incoming Funds ☑ Federal Funds ☐ Reinstatement ☐ Retroactive ☐ Amendment greater than 25%

Source Selection Method: **50-0010 General Exemptions (IGAs Grants QRFs)**

Description of Services or Grant Award

Marion County Health & Human Services (MCHHS) is a subrecipient of the Future Ready Oregon (FRO) federal grant award to Western Oregon University (WOU) for Temporary Qualified Mental Health Associates (QMHA) eligible Staffing Plan. FRO addresses the shortage of bilingual mental health professionals. MCHHS will participate in the recruitment process via on-boarding and managing temporary staff eligible for Qualified Mental Health Associate - Registered (QMHA-R) credentialing.

UEI: DECEM6WK8J17 PTE Federal Award No: SLFRP4454

Subaward No: WOU25-002-Marion_County

Amendment 1 - Decreases federal funds in the amount of ($115,087.72) from $503,793.79 for a new grant award total of $388,706.07.

Desired BOC Session Date: **5/20/2026** Contract should be in DocuSign by: **4/29/2026**

Agenda Planning Date **5/7/2026** Printed packets due in Finance: **5/5/2026**

Management Update **5/12/2026** BOC upload / Board Session email: **5/6/2026**

BOC Session Presenter(s) **Phil Blea** Code: **Y**

REQUIRED APPROVALS

Chalyce MacDonald 05/05/2026

Finance - Contracts Date

Lyndsie Schwarz
Lyndsie Schwarz (May 5, 2026 10:37:38 PDT) 05/05/2026

Contract Specialist Date

Legal Counsel Date

Chief Administrative Officer Date

FDP Subaward Amendment

Awarding Agency: US Dept. of Treasury
Amendment No: 01
PTE/Prime Award No.: SLFRP4454
Subaward No: WOU25-002-Marion_County

Pass-Through Entity (PTE)		Subrecipient
Western Oregon University	Entity Name	Marion County
sponsoredprojects@wou.edu	Contact Email	pblea@co.marion.or.us
Rob Winningham	Principal Investigator	Phil Blea

Project Title: Bilingual Behavioral Health Initiative

Cumulative Budget Period(s) (Agreement Start Date) Start Date:	(End Date of Latest Budget Period) End Date:	Amount Funded This Action	Total Amount of Funds Obligated to Date
03/01/2025	06/30/2026	$ 388,706.07	$ 388,706.07

Subrecipient Cost Share ☐ | Subject to FFATA ☐ | Subrecipient UEI (Unique Entity Identifier - May leave blank if unchanged from prior Agreement): DECEM6Wk8J17

Amendment(s) to Original Terms and Conditions

This Amendment revises the above-referenced Subaward Agreement as follows:

☐ **Additional Budget Period**

☐ **No Cost Extension**

☐ **Additional Funding**

☒ **Deobligation**

This Subaward funding is decreased in the amount of $ 115,087.72 from period 03/01/2025 - 06/30/2026

Carryover is Not Applicable

☐ **Carryover Authorized**

☒ **Detailed Budget/Scope of Work/Notice of Award Attached** (Specify if the Budget and Scope of Work are "New", "Revised", or "Supplemental" in dropdown or "Other")

A Detailed Budget is incorporated by attachment to this Amendment.

☐ **Other (See Below)**

For clarity: all amounts stated in this amendment are in United States Dollars.

All other terms and conditions of this Subaward Agreement remain in full force and effect.

By an Authorized Official of PTE:		By an Authorized Official of Subrecipient:	
_____	Date:	See following County signature page	Date: 05/05/2026
Name:		Name:	Troy Gregg
Title:		Title:	Interim Health and Human Services Administrator

Students were doing 16 hours a week, contract ends at the end of June

									After Pay Date 2/24/26	
Employee Name	Employee Position Name	Allocation to 2927	Bilingual?	Monthly Cost	Start Date	First Pay Day	Hours Per Week	Hours Per Pay Period	Remaining Pay Periods	
Phil Blea	Division Director	25%	No	$ 5,298.38	doesn't matter	doesn't matter	10	20	9.2857	$ 24,599.58
Employee Name	Employee Position Name	Allocation to 2927	Bilingual?	Pay Rate	Start Date	First Pay Day	Hours Per Week	Hours Per Pay Period		
Barner, Karla S	Mental Health Assoc	100%	No	$ 26.82	3/2/2026	3/24/2026	36	72	7.2857	$ 14,068.98
Campbell, Travis J	Mental Health Assoc	100%	No	$ 26.82	2/17/2026	3/10/2026	36	72	8.2857	$ 16,000.02
Castles, Sandra J (Sandy)	Mental Health Assoc	100%	No	$ 26.82	2/17/2026	3/10/2026	36	72	8.2857	$ 16,000.02
Hernandez Pena, Jasmine	Mental Health Assoc	100%	No	$ 26.82	2/17/2026	3/10/2026	36	72	8.2857	$ 16,000.02
Heugly, Leah V	Mental Health Assoc	100%	No	$ 26.82	3/2/2026	3/24/2026	36	72	7.2857	$ 14,068.98
Robles Jimenez, Brittany	Mental Health Assoc	100%	No	$ 26.82	3/31/2025	4/22/2026	16	32	9.2857	$ 7,969.36
Serrano Acosta, Jessica	Mental Health Assoc	100%	No	$ 26.82	6/23/2025	8/12/2025	16	32	9.2857	$ 7,969.36
Velasco, Arianna K	Mental Health Assoc	100%	No	$ 26.82	2/17/2026	3/10/2026	16	32	8.2857	$ 7,111.12
Witt, Daniela M	Mental Health Assoc	100%	No	$ 26.82	2/17/2026	3/10/2026	16	32	8.2857	$ 7,111.12
Students Subtotal										$ 106,298.97
Total										$ 130,898.55

Remaining Administrative Charges	$ 7,351.00
Remaining Materials and Services	$ 11,665.49
Projected Total Outstanding Costs	$ 149,915.04

Total spent as of 2/26/26	$ 238,791.03
Total award per contract	$ 503,793.79
Projected leftover funds	$ 115,087.72

MARION COUNTY SIGNATURES FOR
FUTURE READY OREGON BILINGUAL BEHAVIORAL HEALTH INITIATIVE - SUBAWARD - HE-6457-25 AMENDMENT 1
between
MARION COUNTY and WESTERN OREGON UNIVERSITY

BOARD OF COMMISSIONERS:

Chair — Date

Commissioner — Date

Commissioner — Date

Authorized Signature: Troy Gregg — 05/05/2026
Troy Gregg (May 5, 2026 14:24:58 PDT)
Department Director or designee — Date

Authorized Signature: _____
Chief Administrative Officer — Date

Reviewed by Signature: _____
Marion County Legal Counsel — Date

Reviewed by Signature: — 05/05/2026
Marion County Contracts & Procurement — Date

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Legal Counsel

Title: Memorandum of Understanding with Bureau of Land Management

Management Update/Work Session Date: March 17, 2026 **Audio/Visual aids** ☐

Time Required: 5 mins **Contact:** Steve Elzinga **Phone:** 503-588-5220

Requested Action:
Ratification of Memorandum of Understanding (MOU) with Bureau of Land Management (BLM) board order adopted at management updated on March 17, 2026

Issue, Description & Background:
At that March 17, 2026 Management Update the Board reviewed and adopted a Memorandum of Understanding (MOU) between Marion County and the federal Bureau of Land Management (BLM) for Marion County to become a Cooperating Agency with BLM for the Western Oregon Resource Management Plan Revision.

Financial Impacts:
Sustainable and responsible management of federal lands in Marion County improves the economy and thus increases property tax revenue for all local governments.

Impacts to Department & External Agencies:
It is important for Marion County to have a seat at the table to provide input to the federal government.

List of attachments:
Board Order No. 26-043 and Agreement No. BLM-OR930-2611

Presenter:
Steve Elzinga

Department Head Signature:
Steve Elzinga
Digitally signed by Steve Elzinga
Date: 2026.04.28 10:50:17 -07'00'

BEFORE THE BOARD OF COMMISSIONERS
FOR MARION COUNTY, OREGON

In the Matter of Ratifying	)
Board Order 26-043	)
Signed March 17, 2026	)

ORDER No. 26-

This matter came before the Marion County Board of Commissioners at its regularly scheduled public meeting on May 20, 2026, to ratify Board Order 26-043 signed at a public meeting on March 17, 2026.

WHEREAS Marion County has an interest in sustainable and responsible management of federal lands in Marion County that creates economic activity and jobs; and

WHEREAS it is important for Marion County to have a seat at the table to provide input to the federal government as decisions are made about management of federal lands in Marion County; now therefore

IT IS HEREBY ORDERED that the above order is ratified to the effective date of March 17, 2026.

DATED at Salem, Oregon the 20th day of May, 2026.

MARION COUNTY BOARD OF COMMISSIONERS

_____
Chair

_____
Commissioner

_____
Commissioner

MEMORANDUM OF UNDERSTANDING BETWEEN THE UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, OREGON/WASHINGTON AND MARION COUNTY, OREGON AS A COOPERATING AGENCY FOR THE REVISION OF THE NORTHWESTERN AND COASTAL OREGON RECORD OF DECISION AND RESOURCE MANAGEMENT PLAN AND SOUTHWESTERN OREGON RECORD OF DECISION AND RESOURCE MANAGEMENT PLAN

This Memorandum of Understanding (MOU) establishes a cooperating agency relationship between Marion County (Cooperator) and the Department of the Interior, Bureau of Land Management (BLM), Oregon/Washington State Office, for the purpose of preparing a Revision of the 2016 Northwestern and Coastal Oregon Resource Management Plan and Southwestern Oregon Resource Management Plan (2016 RMPs) and the Environmental Impact Statement (EIS) for these plans.

The BLM is the lead Federal agency for development of the RMP Revision process. The BLM acknowledges that the Cooperator has special expertise applicable to the RMP Revision process, as defined at 43 U.S.C. 4336a(a)(3). This MOU describes responsibilities and procedures agreed to by the Cooperator and the BLM (the Parties).

The cooperating agency relationship established through this MOU shall be governed by all applicable statutes, regulations, and policies, including the BLM's regulations (in particular, 43 CFR 1610.3-1 (b) and 43 CFR 46.225).

This Resource Management Plan (RMP) Revision is being undertaken on an expedited basis to advance implementation of Executive Order (EO) 14223, Threat to National Security From Imports of Timber, Lumber, and Their Derivative Products; Executive Order (EO) 14225, Immediate Expansion of American Timber Production; and the directives set forth in the One Big Beautiful Bill. The revision will be conducted pursuant to updated National Environmental Policy Act (NEPA) regulations intended to streamline procedural requirements.

I. OBJECTIVE

The purposes of this MOU are:

A. To designate Marion County as a cooperating agency in the RMP/EIS process.

B. To provide a framework for cooperation and coordination between the BLM and the Cooperator that will ensure successful completion of the RMP/EIS in a timely, efficient, and thorough manner.

C. To recognize that the BLM is the lead agency with responsibility for completion of the RMP/EIS and the Record of Decision (ROD).

D. To describe the respective responsibilities, jurisdictional authority, and expertise of each of the Parties in the planning process.

II. AUTHORITY

A. The authorities of the BLM to enter into and engage in the activities described within this MOU include, but are not limited to:

1. National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq., as amended by Pub. L. 118–5 (Fiscal Responsibility Act of 2023).

2. Federal Land Policy and Management Act of 1976 (43 U.S.C. 1701 et seq.).

3. The Oregon & California Lands Act of 1937 (43 U.S.C. 2601 et seq.).

III. PROCEDURE

The Parties acknowledge that the accelerated schedule may require abbreviated review periods, reduced opportunities for interagency coordination, and expedited collaboration. Each Party accordingly agrees to exercise due diligence, communicate in a timely manner, and engage in good-faith efforts to meet the compressed timeline and ensure efficient completion of the RMP Revision.

A. BLM Responsibilities:

1. As lead agency, the BLM retains final responsibility for the content of all planning and NEPA documents, which include the Draft RMP/Draft EIS, the Proposed RMP/Final EIS, and the ROD. The BLM's responsibilities include determining the purpose and need for the RMP, selecting alternatives for analysis,

identifying effects of the proposed alternatives, selecting the preferred alternative, and determining appropriate mitigation measures. In meeting these responsibilities, BLM will follow all applicable statutory and regulatory requirements.

2. The BLM will consider the comments, recommendations, data, or analyses provided by the Cooperator in the RMP Revision process, regarding those topics on which the Cooperator is acknowledged to possess special expertise.

B. Cooperating Agency Responsibilities:

1. Protect all proprietary information and data collected and agree not to release these materials to individual entities other than the parties to this MOU and their contractors unless required by the Freedom of Information Act and State public records laws.

2. Public Records: Any information furnished to any of the undersigned agencies is subject to the Freedom of Information Act (5 U.S.C. 552) and State public records laws.

3. Along with other involved Cooperating Agencies, participate in the planning process (e.g., attend cooperating agency meetings when necessary), to the extent possible within the BLM's schedule for the RMP Revision.

4. Respond to BLM requests for information relevant to the project's potential impact on resources within the action area for which the Cooperator has special expertise, which includes social and economic aspects of the county, to the extent possible within the BLM's schedule for the RMP Revision.

5. The Cooperator will use its own funds for activities in furtherance of this MOU, unless funding is otherwise provided for in separate agreements with the BLM. In no event is the Cooperator obligated under this MOU to incur any expense, except as it may choose to do so in furtherance of its participation hereunder.

6. Cooperators are not sponsors as provided for in 43 USC 4336a(f) and 43 USC 4336a(g)(3).

7. Nothing about this agreement shall grant cooperators a right to sue if schedules are not met.

8. Cooperating Agency Representative:

a. For the activities covered by this MOU, Marion County will be represented by The Association of O&C Counties (AOCC), as outlined in Attachment B.

b. Representatives may be changed at any time by written notice to the BLM.

C. Responsibilities of the Parties:

1. The Parties agree to consult regarding the schedule for the RMP Revision. In this context consult means that the BLM will seek, discuss, and consider the views of the other Parties regarding the schedule when feasible and inform cooperators of schedule changes as early as possible after they occur. (42 U.S.C. 4336 a(a)(2)(D), (E)). The BLM will make all final determinations regarding the schedule for the RMP Revision.

2. The Parties agree to use their best efforts to meet BLM's schedule for this NEPA process.

3. Cooperating agencies may submit comments to the BLM on a date no later than specified in the schedule established by the BLM. (42 U.S.C. 4336a(a)(3)).

4. Each Party agrees to fund its own expenses associated with this planning process.

IV. ADMINISTRATION

A. RECORDS MANAGEMENT: The BLM owns the rights to all data/records produced as part of this agreement. All records (in all media, paper and electronic) created or produced in part or in whole are to be maintained for the duration of the agreement, made available upon request, and upon termination of the agreement will be turned over to the BLM. The cooperator may retain copies of such records consistent with State public records laws; however, such retention does not transfer ownership or control of the records. All original records or official copies shall be made available to the BLM upon request and upon termination of the agreement, consistent with federal records management requirements.

B. Consistent with Section A above, the Cooperator shall not retain, use, sell, or disseminate copies of any data provided by BLM that contains information covered by the Privacy Act of 1974 or that which is generally protected by the Freedom of Information Act.

C. PUBLIC RECORDS: Information held by BLM is subject to the Freedom of Information Act (5 U.S.C. 552). Information held by the Cooperator may be subject to applicable State public records laws.

D. MODIFICATION: Modifications within the scope of the agreement shall be made by mutual consent of the parties, by the issuance of a written modification, signed and dated by all parties, prior to any changes being performed.

E. NON-FUND OBLIGATING DOCUMENT: This agreement is neither a fiscal nor a funds obligation document. Any endeavor to transfer anything of value involving reimbursement or contribution of funds between the parties to this agreement will be handled in accordance with applicable laws, regulations, and procedures, including those for Government procurement and printing. Such endeavors will be outlined in separate agreements that shall be made in writing by representatives of the parties and shall be independently authorized by appropriate statutory authority. This agreement does not provide such authority. Specifically, this agreement does not establish authority for noncompetitive award to the cooperator of any contract or other agreement.

F. AUTHORITIES NOT ALTERED: Nothing in this MOU alters, limits, or supersedes the authorities and responsibilities of any Party on any matter within its respective jurisdiction. Nothing in this MOU shall require any Party to perform beyond its respective authority

G. IMMUNITY AND DEFENSES RETAINED: Each Party retains all immunities and defenses provided by law with respect to any action based on or occurring as a result of this MOU.

H. CONFLICT OF INTEREST: The Parties agree not to utilize any individual or organization for purposes of plan development, environmental analysis, or Cooperator representation, including officials, employees, or third-party contractors, having a financial interest in the outcome of the RMP/EIS. Questions regarding potential conflicts of interest should be referred to BLM headquarters, or Field Ethics Counselors for resolution.

I. DOCUMENTING DISAGREEMENT OR INCONSISTENCY: WHERE the BLM and the Cooperator disagree on substantive elements of the RMP/EIS (such as designation of the alternatives to be analyzed or analysis of effects) and these disagreements cannot be resolved, the BLM will include a summary of the Cooperator's views in the Proposed RMP/Final EIS.

J. MANAGEMENT OF INFORMATION: The Cooperator acknowledges that all supporting materials and draft documents may become part of the administrative record and may be subject to the requirements of the Freedom of Information Act (FOIA) and other Federal statutes. The Cooperator agrees not to release these materials to individuals or entities other than the Parties to this MOU except as required by State public records laws.

K. CONFLICT RESOLUTION: The Parties agree to make reasonable efforts to resolve procedural or substantive conflicts and may agree to initiate an Alternative Dispute Resolution (ADR) process. The Parties acknowledge that the BLM retains final responsibility for the decisions identified in the RMP/EIS and ROD.

L. TERMINATION: Any of the parties, in writing, may terminate the agreement in whole, or in part, at any time before the date of expiration.

V. LIST OF CONTACTS

BLM PROGRAM CONTACT	COOPERATING AGENCY PROGRAM CONTACT
Name: Elizabeth Burghard, Project Manager E-mail: eburghar@blm.gov	Name: Chris Cadwell, Consultant to AOCC E-mail: Cadwellconsulting@gmail.com
Name: Sarah Bickford, Assistant Project Manager E-mail: sbickfor@blm.gov	Name: E-mail:

VI. COMMENCEMENT/EXPIRATION DATE

This agreement is executed as of the date of the last signature and is effective until terminated (IV(B)). If not terminated earlier, this MOU will end when the ROD for the RMP/EIS is approved.

VII. SIGNATURES

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the last date written below.

Elizabeth R. Burghard Project Manager Western Oregon Resource Management Plan Revision Medford District Manager	Date
Commissioner Kevin Cameron Marion County	Date
Commissioner Danielle Bethell Marion County	Date
Commissioner Colm Willis Marion County	Date

SCHEDULE
(Attachment A)

TASK	RESPONSIBILITY	DATES
Publish Notice of Intent, and conduct formal scoping	BLM	Spring 2026
Formulate alternatives and conduct analysis	BLM	Spring 2026
Publish Draft RMP Revision/EIS	BLM	Summer 2026
Publish Proposed RMP Revision/Final EIS	BLM	Fall/Winter 2026
Sign Record of Decision	BLM	Early 2027

REPRESENTATIVES
(Attachment B)

FOR REVISION OF THE RESOURCE MANAGEMENT PLANS AND PREPARATION OF ENVIRONMENTAL IMPACT STATEMENT FOR THE WESTERN OREGON BLM DISTRICTS

Bureau of Land Management	**Primary Representative**	**Alternate Representative**
Name	Elizabeth Burghard	Sarah Bickford
Title	Project Manager, Medford District Manager	Assistant Project Manager, Siuslaw Field Manager
Address	3040 Biddle Road	3106 Pierce Parkway
City, State, Zip	Medford, OR	Springfield, OR 97477
Telephone	541-618-2411	541-683-6145
Email	eburghar@blm.gov	sbickfor@blm.gov

Cooperator Representatives	**Primary Representative**	**Alternate Representative**
Name	Chris Cadwell	Kevin Cameron
Title	Forester/Natural Resource Analyst, Consultant to AOCC	Commissioner
Address	570 Edgewood Dr.	
City, State, Zip	Silverton, Oregon 97381	
Telephone		
Fax		
Email	Cadwellconsulting@gmail.com	KCameron@co.marion.or.us

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Public Works

Title: Receive notice of the Hearings Officer decision Approving Zone Change/Subdivision 26-002/Antonio Diaz

Management Update/Work Session Date: N/A **Audio/Visual aids** ☐

Time Required: 0 min **Contact:** Gillian Peden **Phone:** 503-566-4165

Requested Action:
Receive notice of the Hearings Officer decision Approving Zone Change/Subdivision 26-002/Antonio Diaz.

Issue, Description & Background:
The Marion County Hearings Officer held a duly noticed hearing on the application on April 23, 2026. The Hearings Officer issued a decision on May 5, 2025 approving Zone Change/Subdivision 26-002.

As part of the land use process, the Marion County Board of Commissioners must receive official notice of the decision. An ordinance will be brought back at a future board session for consideration.

Financial Impacts:
None

Impacts to Department & External Agencies:
None

List of attachments:
HO Decision

Presenter:
Austin Barnes

Department Head Signature:
for Brandon Reich

BEFORE THE MARION COUNTY HEARINGS OFFICER

In the Matter of the Application of	)	Case No. 26-002
	)	
ANTONIO DIAZ	)	**ZONE CHANGE / SUBDIVISION**

ORDER

I. Nature of the Application

This matter came before the Marion County Hearings Officer on the Application of Antonio Diaz for a zone change to change the zone for UD (Urban Development) to RM (Multi-Family Residential) and to subdivide a .64 acre parcel into 4 lots located at 3200 Hollywood Drive NE, Salem.

II. Relevant Criteria

The standards and criteria relevant to this application are found in the Marion County Code Chapter 16, especially MCC 16.39 (Zone Changes); MCC 16.33 (Subdivision and Partition Requirements); MCC 16.04 (Multiple-Family-Residential); and the Salem Area Comprehensive Plan, including Housing Goals and Policies and Land Use and Urbanization Goals and Policies.

III. Public Hearing

A public hearing was held on this matter on April 23, 2026. The Planning Division file was made part of the record. The following persons appeared and provided testimony on the application:

1.	Gillian Peden	Marion County Planning Division
2.	Shea Romero	Representative for Applicant

No objections were raised as to notice, jurisdiction, conflict of interest, or to evidence or testimony presented at the hearing.

IV. Executive Summary

Applicant Antonio Diaz owns the property located at 3200 Hollywood Drive NE and seeks to change the zone from UD (Urban Development) to RM (Multi-Family Residential) and subdivide the .64 acre parcel into 4 lots. The property currently has a single-family residence that has recently been remodeled. Applicant proposes to divide the remainder of the property into three additional lots. The surrounding properties are developed with single-family and multi-family residences and a public storage facility.

The property is within the Salem Urban Growth Boundary, and is located in an area served by City of Same water, sewer, and transportation infrastructure. The proposed zone change aligns with the Salem Area Comprehensive Plan land use designation for Multi-Family Residential.

Applicant meets the burden of proving the applicable standards and criteria for approval of the zone change from UD (Urban Development) to RM (Multi-Family Residential) and to subdivide a .64 acre parcel into 4 lots. The hearings officer approves the application for zone change and subdivision subject to conditions necessary for the public health, safety and welfare., including the engineering recommendations of Marion County Department of Public Works (DPW) Land Development Engineering and Permits (LDEP).

VI. Findings of Fact

The hearings officer, after careful consideration of the testimony and evidence in the record, issues the following findings of fact:

1. The subject property consists of one parcel totaling 0.64 acres that is in the Salem Urban Growth Boundary (UGB) and is designated Multiple Family Residential in the Salem Area Comprehensive Plan (SACP). The parcel is currently zoned UD (Urban Development).

2. The property is located on the east side of a public road, Hollywood Dr NE, and on the north side of public road a, Leafwood Ave NE. The property contains one single family dwelling facing Hollywood Dr NE and has one accessory building. There is a fence separating the house from the accessory structure and the open area of vacant land.

3. Surrounding properties in all directions are within the Salem UGB but are still in the jurisdiction of Marion County. Properties to the south and west are zoned Single-Family Residential (RS) and are developed with single-family dwellings. The parcel immediately north and one parcel to the west are zoned Urban Development (UD) and are developed with single family homes. The parcel immediately east is zoned Commercial General- Limited Use (CG-LU) and is used as a self-storage facility. Two parcels north is a large apartment complex that is zoned RM and contains one story apartment units. Other notable uses in the area include various commercial businesses along Silverton Rd NE.

4. Applicant proposes to change the zoning of the parcels from UD to RM with the intention to develop multi-family housing in the form of duplexes on the property.

5. Various agencies were contacted about the proposal and given an opportunity to comment. The following comments were received:

   City of Salem Planning Department commented:

   Zoning: The proposed zone change meets Salem's Comprehensive Plan Designation.

   Lot Standards: If at such a time the properties were annexed into the City, the zoning designation of the properties would be either RM-I (Multiple Family-I), RM-II (Multiple Family-II), or RM-III (Multiple Family Residential-III), and the following lot standards would be

applicable. If the proposal does not conform to these standards, the site would be considered non-conforming at time of annexation:

- Per Table 513-2 in SRC 513.010(b), the following lot standards are applicable to the RM-I (Multiple Family-I) zone:
  Minimum lot area: 4,000 square feet for single family use
  Minimum lot width: 40 feet for single family use
  Minimum lot depth: 70 feet for single family use
  Minimum street frontage: 40 feet for single family use
  Per Table 513-3 in SRC 513.010(c), for single family uses the minimum dwelling unit density is 8 dwelling units per acre, and the maximum is 14 dwelling units per acre.

- Per Table 514-2 in SRC 514.010(b), the following lot standards are applicable to the RM-II (Multiple Family-II) zone:
  Minimum lot area: 6,000 square feet for single family use
  Minimum lot width: 40 feet for single family use
  Minimum lot depth: 70 feet for single family use
  Minimum street frontage: 40 feet for single family use
  Per Table 514-3 in SRC 514.010(c), for single family uses the minimum dwelling unit density is 15 dwelling units per acre, and the maximum is 31 dwelling units per acre.

- Per Table 515-2 in SRC 515.010(b), the following lot standards are applicable to the RM-III (Multiple Family-III) zone:
  No minimum lot area, lot width, or lot depth requirement for single family uses.
  Minimum street frontage: 40 feet for single family use
  Per Table 515-3 in SRC 515.010(c), for single family uses the minimum dwelling unit density is 28 dwelling units per acre, and the maximum is 44 dwelling units per acre.

City of Salem Community Planning and Development Department commented that the proposed development will be connected to the city's public water and sewer services.

Marion County Fire Department No. 1 commented on the case and full comments can be found in the case file.

Marion County Building Inspection commented: "No Building Inspection concerns. Permit(s) are required to be obtained prior to the development of duplex's, other structures, and/or utilities installation on private property."

Marion County Surveyor's Office commented:

1. Subdivision name must be approved per ORS 92.090.

2. Must be surveyed and platted per ORS 92.050.

3. Subdivision plat must be submitted for review.

4. Checking fee and recording fees required.

5. Per ORS 92.065 - Remaining monumentation bond may be required if some of the plat monuments have not been set and/or the installation of street and utility improvements has not been completed, or other conditions or circumstances cause the delay (or resetting) of monumentation.

6. A current or updated title report must be submitted at the time of review. Title reports shall be no more than 15 days old at the time of approval of the plat by the Surveyor's Office, which may require additional updated reports.

Marion County Department of Public Works (DPW) Land Development Engineering and Permits (LDEP) commented:

ENGINEERING CONDITIONS

Condition A – Prior to plat approval construct utility service extensions serving each of the developable lots facing Leafwood Avenue, and a 5-foot wide sidewalk along the proposed west lot Leafwood Avenue frontage, including east termination ADA ramp.

Condition B – On the subdivision plat dedicate a Leafwood Avenue 25-foot Right-of-Way (R/W) half-width including any necessary additional R/W to accommodate a sidewalk transition extending from the existing corner pedestrian ramp and around the backside of the existing utility pole.

Condition C – Prior to plat approval, submit civil engineering plans for the development to include Leafwood Avenue facing vehicle driveway access, pedestrian frontage improvements, stormwater management facilities, utility service extensions and erosion control.

Condition D –Prior to plat approval design, permit and construct a stormwater management system serving each of the developable lots to include detention and Water Quality Treatment (WQT), and, record a stormwater Operations & Maintenance (O&M) Agreement for same. In the alternative, individual lot systems such as raingardens sized based upon county prescriptive parameters may be constructed prior to issuance of a Certificate of Occupancy on the developable lots. For the latter scenario, a template design must be submitted.

ENGINEERING REQUIREMENTS

E. At the time of application for building permits, an Access Permit will be required for the proposed driveway aprons. Individual lot Leafwood Avenue curbline sidewalk segments will also be required.

F. Show any necessary drainage easements on the subdivision plat.

G. Transportation System Development and Parks charges will be assessed upon application for building permits.

H. Installation of dry utility extensions in the public R/W generally requires a separate permit for each service through PW Engineering.

I. A county erosion permit is required for physical development of the lots.

ENGINEERING ADVISORY

J. Potable water and sanitary sewer service is provided by City of Salem.

All other contacted agencies either failed to respond or stated no objection to the proposal.

VII. Additional Findings of Fact and Conclusion of Law

1. Applicant has the burden of proving by a ponderance of the evidence that all applicable standards and criteria are met as explained in *Riley Hill General Contractor, Inc. v. Tandy Corporation*, 303 Or 390, 394-395(1987).

> "Preponderance of the evidence" means the greater weight of evidence. It is such evidence that when weighed with that opposed to it, has more convincing force and is more probably true and accurate. If, upon any question in the case, the evidence appears to be equally balanced, or if you cannot say upon which side it weighs heavier, you must resolve that question against the party upon whom the burden of proof rests. (Citation omitted).

Applicants must prove, by substantial evidence in the record, it is more likely than not that each criterion is met. If the evidence for any criterion is equal or less, Applicants have not met their burden and the application must be denied. If the evidence for every criterion is even slightly in Applicant's favor, the burden of proof is met.

ZONE CHANGE

2. Pursuant to MCC 16.36.070, applications shall include the signature of all owners of the subject property. The application was signed by Antonio Diaz, the owner of the property. Applicant should be prepared to provide a deed establishing such ownership if requested.

3. Pursuant to MCC 16.39.010, the hearings officer is authorized to make the initial decision on zone change applications.

4. Pursuant to MCC 16.39.040, a hearings officer's decision to approve a zone change does not become final until the Board of Commissioners adopts an ordinance implementing the decision.

5. Under Marion County Code (MCC) 16.39.050, approval of a zone change shall include findings that the change meets the following criteria:

A. The proposed zone is appropriate for the Comprehensive Plan land use designation on the property and is consistent with the description and policies for the applicable Comprehensive Plan land use classification.

The proposed zone of RM (Multi-family Residential) is consistent with the underlying City of Salem Comprehensive Plan designation which is also Multi-family Residential. The intent of the proposed RM zone is to provide medium to high density housing which is consistent with the description of the Salem multi-family residential section of the City's comprehensive plan. While the proposed new zoning fits the description of the underlying comprehensive plan, there are goals and policies within the comprehensive plan which must be met in order for the proposal to fully meet the criteria under MCC 16.39.050(A). These goals and policies are addressed further below.

B. Adequate public facilities, services, and transportation networks are in place, or are planned to be provided concurrently with the development of the property.

The site is served by city water and sewer service. All other needed public facilities and services are in place or will be made available to support the proposed use. The proposal meets this criterion.

C. The request shall be consistent with the purpose statement for the proposed zone.

The RM (Multiple Family Residential) zone purpose statement listed under MCC 16.04.000 states: *"The RM (multiple-family residential) zone is primarily intended to provide for multiple-family dwellings on a lot, or attached dwellings on separate lots, at residential densities greater than permitted in the RL zone. Other uses compatible with residential development are also appropriate. RM zones are located in areas designated as multiple-family residential or an equivalent designation in the applicable urban area comprehensive plan and are provided with urban services. They are suited to locations near commercial office and retail zones and along collector and arterial streets."* Applicant submitted a concept plan as part of the site plan for the application. The concept plan indicates the intended use is consistent with the proposed zone. The proposal meets this criterion.

D. *If the proposed zone allows uses more intensive than uses in other zones appropriate for the land use designation, the proposed zone will not allow uses that would significantly adversely affect allowed uses on adjacent properties zoned for less intensive uses.*

The limited multiple-family residential (RL) zone is the most restrictive zone consistent with the Multi-Family Residential Comprehensive Plan designation. The RL zone is intended to provide for detached and attached dwellings on a lot or multiple dwellings on a lot at an intermediate density. RL zones are located in areas designated multiple-family residential or equivalent designation. The proposed RM zone allows the same types of uses as the RL zone but at a higher density. The subject property is near other properties in the RM zone. The property directly north is zoned UD but has the underlying Multi-Family Residential comprehensive plan designation. The UD zone does allow for lower densities, however development standards in the RM zone are intended to provide buffering from any adjacent lower residential density zones. The proposal meets this criterion.

6. The existing Plan designation in the Salem Area Comprehensive Plan is Multi-Family Residential, and this Plan designation provides for the application of the RM zone proposed by the Applicant. The applicable policies are as follows:

Housing Goals and Policies

H 1.1 Housing types: A variety of housing types shall be allowed and encouraged throughout the Salem Urban Area, including single-family homes, accessory dwelling units, manufactured homes, townhouses, middle housing, and multifamily housing. (SUA)

H 1.2 Innovation: The development of new and innovative housing types and designs such as cottage clusters, cohousing, and multigenerational housing should be encouraged in the Salem Urban Area to diversify the housing stock and meet different housing needs.

H 1.3 Accessibility and aging in place: The development of affordable and low-income accessible housing, including homes with universal design features, should be encouraged to meet the needs of older adults and people with mental and physical disabilities, particularly in areas near services and transit.

H 1.4 Adaptability: Flexibility shall be provided in regulations to allow existing homes to convert to middle housing to adapt to changing housing needs in the future.

H 1.5 Housing diversity: New residential developments should be encouraged to incorporate a diversity of housing types and sizes to attract residents of varying income levels, lifestyles, and housing preferences.

H 1.6 Multi-dwelling ownership: Homeownership opportunities in multi-dwelling housing should be encouraged, including the creation of townhouses, condominiums, and cooperatives.

H 1.7 Specialized housing: The development of specialized housing for the area's elderly, disabled, students, and other groups with special housing needs should be encouraged.

H 1.8 Fair housing: Regulatory barriers to housing choices for people in protected classes shall be removed, and the City should coordinate with other agencies and organizations to support programs that aim to affirmatively further fair housing

Applicant proposes a change in zone to RM to construct three duplexes for a total of 7 units on the subject property. There are a variety of different housing developments within the immediate area of the subject property, including traditional single-family dwellings and 1 and 2-story apartments. The duplex configuration model shown in the proposed site plan would add to the variety of housing types in the area and stand out from other nearby development models. Additionally, the proposal has potential to be implemented in ways that allow multi-dwelling ownership through condominium or townhouse style ownership. Finally, the location is within an identified transit corridor, and therefore public transportation services are available in the area. The proposal meets the City of Salem Housing Goals and Policies.

Land Use and Urbanization Goals and Policies

L 1.1 Growth management program: The City shall maintain and facilitate an urban growth management program that guides the conversion of urbanizable land to urban uses, provides for the orderly and economically efficient extension of public services and facilities to that land, and takes into consideration the need for an adequate supply of land to meet future development requirements.

L 1.2 Land sufficiency: The City shall periodically update inventories and analyses related to housing and economic development – including the Salem Housing Needs Analysis, Economic Opportunities Analysis, and Buildable Lands Inventory – to ensure the Salem area has the amount and type of land needed to accommodate population and employment projections.

L 1.3 UGB is urbanizable: The City shall consider urbanizable areas within the urban growth boundary as available for annexation and urban development.

L 1.4 Urban growth boundary expansion: If the Urban Growth Boundary for the Salem Urban Area is expanded to include additional land for residential development, the City shall give first priority to lands that have been removed from the 1982 boundary.

L 1.5 Annexation coordination: The City shall coordinate with Marion and Polk Counties to encourage the orderly annexation to the City of Salem of the land within the Salem urban area.

L 1.6 Annexation legislation: Legislation that removes barriers to annexing land within the Salem urban area to the City of Salem in an orderly fashion should be supported.65 Land Use and Urbanization

L 1.7 Extension of services: The City shall prohibit the extension of sewer or water service to any land for development outside city limits or County service districts. Such areas must be annexed to the City to receive those services except as may be agreed by the City and appropriate County. (SUA)

L 1.8 Septic systems: The City is the appropriate provider of sewer facilities for land within the UGB. In order to ensure the efficient development of land within the UGB and ability to redevelop land at urban densities, septic systems should be limited to situations where sewer is not physically or legally available. Approval of septic systems shall be based on verification of septic suitability by the County Sanitarian. (SUA)

Inside City Limits
Property within the City limits shall be connected to City services. Septic systems are allowed inside City limits for low density residential uses subject to standards that assure adequate opportunities for future development at urban densities subject to non-remonstrance agreements and State and Federal requirements. Existing septic systems can be maintained and repaired.

Outside City Limits
Unless a different standard has been mutually concurred upon by the City and relevant County, unincorporated property that is contiguous to City limits shall not be approved for septic systems unless city sewer service is physically unavailable. City services shall be extended to contiguous properties upon annexation of the property.

Unincorporated, non-contiguous property may have new septic systems and may repair existing septic systems. Approval of septic systems should include consideration of adequate opportunities for future development at urban densities such as future rights of way, access points, and easements.

L 1.9 Service districts: No new service districts shall be created within the Salem urban area to provide fire protection, sewer or water service. (SUA)

L 1.10 Infill: Development of vacant and underutilized land with existing urban services should be encouraged before converting urbanizable lands to urban uses and extending services beyond presently served areas.

L 1.11 Services: The City shall provide levels of services to city residents consistent with community needs as determined by the City Council, within the financial capability of the City, and subject to relevant legal constraints on revenues and their applications.

L 1.12 Sizing facility extensions: The City shall ensure that the extension of sewer, water, storm drainage, and transportation facilities within the Salem urban area conforms with the adopted growth management program. Public water and sewer facilities shall be sized and constructed appropriately to serve the areas within the urban growth boundary.

L 1.13 Facility responsibility: Where development creates a demand for new or expanded facilities and services, new development should bear a share of the costs of new or expanded facilities and services.66 Land Use and Urbanization

L 1.14 Compatibility of improvements: Within the Salem urban area, the City shall coordinate with Marion and Polk Counties to ensure their improvement and construction standards are compatible with the City of Salem improvement and construction standards for street, sewer, densities cited in the Public Facilities Plan.

Applicant proposes to change the zoning on the subject property from UD to RM to allow for more intensive urban development than is allowed by the current zone. The property is within the UGB of the City of Salem and currently contains one single family dwelling. Infill development on properties with open space within the UGB of Salem is prioritized over expanding the growth boundary to encompass new areas, so the proposal is consistent with the Land Use and Urbanization goals related to areas of focus for development. The City of Salem commented that the property is located within the East Salem Sewer Service District and Jan Ree Water Service District and that the City will provide services to the site. This addresses the goals related to extending and providing urban services.

The proposal meets the Land Use and Urbanization Goals and Policies. The proposal meets the required goals and policies, and therefore fully meets the criterion of MCC 16.39.050(A).

SUBDIVISION

7. The standards and criteria for subdivisions and partitions are stated in Marion County Code Chapter 16.33. Under MCC 16.33.040, when considering a subdivision, the hearings officer shall consider whether or not it is in accordance with the adopted ordinances, comprehensive plans, and land development policies of Marion County.

8. The standards for roads, streets, and easements are listed in MCC16.33.160 through MCC 16.33.340 and include:

> *16.33.160 ENGINEERING STANDARDS AND REQUIREMENTS. Engineering standards and requirements, including but not limited to streets, drainage, access, easements, and thoroughfare improvements, shall be those currently approved by the Marion County department of public works.*

Based on compliance with Engineering Requirements and Conditions, the proposal can be conditioned to satisfy the standards.

> *16.33.180 DEEDING OF RIGHT-OF-WAY ROADWAY. No person shall dedicate for public use, or deed to Marion County, a parcel of land which is used or proposed to be used as access without first obtaining the approval of the board or its designee and delivering the deed to the board for its endorsement. No dedication is effective unless the property is accepted by the Board or its designee and recorded with the Marion County clerk's office.*

Public Works Land Development, Engineering, and Permits (LDEP) requires that 25-feet of right-of-way must be dedicated on Leafwood Ave. Compliance with the requirement will satisfy this criterion.

> *16.33.190 CONNECTIVITY. Applicants submitting preliminary development plans shall provide for local streets oriented to or connecting with existing or planned streets, existing or planned schools, parks, shopping areas, transit stops, and employment centers located within one-half mile of the development. Applicants shall also provide for extension of local streets to adjoining major undeveloped properties and eventual connection with the existing street system. Connections to existing or planned streets and undeveloped properties along the border of the parcel shall be provided at no greater than 600-foot intervals unless the planning director, or designee, determines that one or more of the following conditions exist:*
>
> *A. Physical or topographic conditions make a street or accessway connection impractical. Such conditions include, but are not limited to, freeways, railroads, steep slopes, wetlands or other bodes of water where a connection could not reasonably be provided; or*
>
> *B. Buildings or other existing development on adjacent lands physically preclude a connection now or in the future considering the potential for redevelopment.*

No new streets are proposed as part of this application. Proposed properties will maintain frontage on either Hollywood Dr NE or Leafwood Ave NE, which are existing public right of ways.

> *16.33.200 DEAD-END STREETS. When it appears necessary to continue streets to an adjacent acreage, the streets shall be platted to the boundary or property line of the proposed subdivision without a turnaround. In all other cases, dead-end streets shall have a turnaround with a configuration approved by the Marion County department of public works.*

No dead end streets are proposed as part of this application.

> *16.33.220 RADIUS AT STREET INTERSECTIONS. The property line radius at street intersections shall be to Marion County department of public works' standards.*

Based on compliance with Engineering Requirements and Conditions, the proposal can be conditioned to satisfy these standards.

> *16.33.240 STREET GRADES. No street grade shall be in excess of 12 percent unless the commission or hearings officer finds that, because of topographic conditions, a steeper grade is necessary. The commission or hearings officer shall require a written statement from the director of public works indicating approval of any street grade that exceeds 12 percent.*

No new streets are proposed. This criterion does not apply.

> *16.33.260 DEDICATION OF RIGHT-OF-WAY. If land to be subdivided or partitioned will cause the termination of a right-of-way of less than standard width, the applicant shall dedicate sufficient land to provide for a cul-de-sac or to increase the half (or halves) of right-of-way bordering the subject parcel to one-half of the standard width. Unless otherwise specified for an individual street in this title, standard right-of-way widths are subject to the standards of the Marion County department of public works.*

Public Works Land Development, Engineering, and Permits (LDEP) is requiring that 25-feet of right-of-way must be dedicated on Leafwood Ave, therefore this criterion is met.

> *16.33.280 ADDITIONAL RIGHT-OF-WAY WIDTHS. Where topographical requirements necessitate either cuts or fills for the proper grading of the streets, additional right-of-way or slope easement may be required to accommodate the cut and fill.*

There are no topographical requirements indicated by LDEP.

> *16.33.290 PERFORMANCE STANDARDS. Whenever adequate assurances of performance are required as a condition of approval of any subdivision under this title, the applicant shall provide one of the following:*
>
> *A. A surety bond executed by a surety company authorized to transact business in the state of Oregon, in an amount equal to 100 percent of the construction cost of the required improvements, as verified by the county.*
>
> *B. A verified deposit with a responsible escrow agent or trust company of cash or negotiable bonds in an amount equal to 100 percent of the construction costs of the required improvements, together with an agreement that the deposit may be disbursed only upon county approval. The agreement shall include a provision that the county shall allow release of the deposit in such amounts and at such times as a corresponding proportion of the required improvements are completed to the satisfaction of the county engineer following an inspection by the county engineer or the engineer's authorized representative.*

C. An irrevocable letter of credit from one or more financial or lending institutions pledging that funds equal to 100 percent of the construction cost of all required improvements are available to the applicant and are guaranteed for payment for the improvements.

Regardless of the option chosen above, no building permits for any structures within the subdivision will be issued until all improvements have been completed by the applicant. Or, in the event the applicant fails to complete all improvements, the county may estimate the cost of completing any required improvement, call on the bond or deposit for the funds necessary to complete the improvement, and complete the improvement to the extent of the funds obtained upon call of the bond or deposit. If the amount obtained from the bond or deposit is insufficient to complete the improvement, the county may either hold the collected funds until additional funds are authorized for the improvement or expend the collected funds on a revised improvement or on a portion of the improvement as determined reasonable by the director of public works. Following final inspection, if the improvement is complete and the amount of the bond or deposit exceeds the actual cost to the county of completing the improvement, the remainder shall be released.

D. Maintenance Bonds. The applicant shall provide a maintenance bond in a form approved by the office of county legal counsel equal to 40 percent of the construction cost of all required improvements. The applicant shall provide the bond within 30 days after final review of the required improvements. The bond shall remain in effect for one year after the completion of construction of all required improvements. The purpose of the bond is to guarantee applicant's obligation to maintain all required improvements for a period of one year after completion of construction of all required improvements. After the expiration of the one-year period, any remaining balance on the bond shall be released. The bond shall include a provision stating that, in the event the county must take legal action to recover on this bond, and it prevails at trial or on appeal, the county shall be entitled to recover its reasonable attorneys' fees and its costs and disbursements. Nonpayment of the bond will not invalidate applicant's obligations under the bond.

LDEP has not identified the need for a bond for assurances with respect to improvements. The criterion does not apply to this proposal.

16.33.300 UTILITY EASEMENTS. Utility easements meeting the approval to the standards of the affected utilities shall be provided to all newly created lots.

The decision can be conditioned to satisfy this standard. Utility easements must be shown on the final plat and will be reviewed by Planning and LDEP. The criterion can be met.

16.33.320 STREET OR ROAD IMPROVEMENTS. All street or road improvements including pavement, curbs, sidewalks, signage, and surface drainage shall be in accordance with the specifications and standards prescribed by the director of public works. Subdivision plats shall not have final approval until such time as the director of

public works, or his/her designee, is satisfied that the street improvements will be completed in accordance with the specifications and standards set forth by the Marion County department of public works.

No building permits within a subdivision or partition shall be issued until the Director of public works, or his/her designee, approves that the improvements have been completed or, sufficient improvement agreements and financial guarantees have been recorded.

The criterion can be satisfied as conditioned.

16.33.340 PRIVATE STREETS. In the event the subdivider or developer elects to provide private streets or thoroughfares, they shall be maintained by the homeowners' association and a maintenance agreement shall be submitted to Marion County for review and approval prior to recording the final plat.

No private streets are proposed; this criterion does not apply.

9. The standards for blocks and lots are listed in Marion County Code Chapter 16.33.360 through 16.33.340 and include:

16.33.360 SUBDIVISION. Block lengths and widths shall be determined after considering the following factors:

A. The distance and alignment of existing blocks and streets adjacent to or in the general vicinity of a proposed subdivision;

B. Topography;

C. Lot size; and

D. Need for and direction of the flow of through and local traffic. Blocks shall not exceed 600 feet between street or road right-of-way lines unless the adjacent layout or special conditions justify greater length. Except where topographical or other physical features require otherwise, block widths shall not be less than 120 feet or greater than 400 feet.

16.33.380 MIDBLOCK PEDESTRIAN ACCESS. Where topographic or other conditions make necessary a block of unusual length, the commission may require midblock pedestrian walks with a right-of-way at least 10 feet in width which shall be hard surfaced through the block, and extending from street curb to street curb.

There are no blocks being created in this subdivision request.

16.33.400 LOT SIZE. All lots approved under this chapter shall have sufficient area to be consistent with the intent of the Comprehensive Plan and to provide adequate area for the intended structures and uses, all setbacks, access and spacing required for water

supply and waste water disposal. Lots to be served by public or privately owned sewage collection and disposal system must meet the requirements and have approval of the Oregon State Department of Environmental Quality before being recorded or sold. State regulations, soil types, drainage, terrain, and location may be included as part of the criteria used by the state or county in determining appropriate lot sizes for lots using subsurface disposal of sewage. Lot size and dimensions shall be as prescribed in the corresponding zone.

The RM zone contains a minimum property size of 6,000 square feet, a minimum lot width of 40 feet, and a depth of 70 feet. In this proposal, the lot with the existing dwelling will be approximately 9,900 square feet, and the new lots that will house the duplexes will be approximately 6,006 square feet. Applicant states that the resulting parcels having the dimensions of 57.20 feet by 105.0 feet, meeting the lot dimension requirements. In addition, the maximum density is no more than one dwelling unit per 1,500 square feet of lot area, which the proposal has met. The application and site plan provide show the development meeting the applicable lot sizes, dimensions, and density.

16.33.420 CURVED FRONT LOT LINES. When front lot lines are on a curve or arc, the front line distance shall be indicated on the final plat by bearing and chord distance.

No curved lot lines are proposed, but if they are, they shall be held to this standard.

16.33.440 LOT LINE. Side lot lines shall be as close to right angles to the front street line as practicable. Unless otherwise approved, rear lot lines shall be not less than one-half the width of the front lot lines.

Proposed lot lines are as close to right angles as possible. The criterion is met.

10. The standards for sewage, water, and utilities are listed in Marion County Code Chapter 16.33.460 through 16.33.560 of the Marion County Code (MCC) and include:

16.33.460 SEWAGE DISPOSAL. All lots or parcels shall be served by an authorized sewage disposal system. Subsurface sewage disposal for individual parcels shall meet the requirements of the Department of Environmental Quality (DEQ) and the Marion County building inspection division. Those subsurface sewage systems that are used by a community, sanitary district, industry, or incorporated area must be authorized by the Department of Environmental Quality (DEQ) via the Marion County building inspection division. Installation and maintenance shall be in accordance with the Department of Environmental Quality's regulations and requirements. The commission, director, or hearings officer may require connection to an existing sewage collection and treatment system regardless of lot suitability for subsurface disposal if the commission, director or hearings officer deems it necessary and provided the connection is available.

The lots in the subdivision will be served by the City of Salem sewage disposal system.

16.33.480 WATER SUPPLY. All lots or parcels shall be served by an authorized public or private water supply system.

A. Public or Private Systems. Public or private systems shall meet the requirements of the Oregon State Health Division with reference to chemical and bacteriological quality. In addition, such systems must meet the quantity, storage, and distribution system requirements of the State Health Division and the operator of the water system.

The proposed development will be served by the Jan Ree Water Service District. The criterion is met.

16.33.500 SEWER AND WATER LINES AND CONNECTIONS. All proposed sub divisions within established or proposed urbanizing areas of municipalities, service districts and other incorporated communities, where, upon concurrence from the municipality, district, or incorporated community that public sewer and water services are imminent, shall be developed with water and sewer lines that meet the specifications of the director of the Marion County department of public works.

The proposed development will be connected to the City of Salem's sewer district. The criterion is met.

16.33.520 UNDERGROUND UTILITIES. All permanent utility service to lots in a subdivision within an established urban growth boundary shall be provided from underground facilities and no overhead utility service to a subdivision shall be permitted. The subdivider shall be responsible for complying with the requirements of this section and shall:

A. Obtain a permit from the director of public works for the placement of all underground utilities.

The City of Salem provides water to the lots. The criterion is met.

B. Make all necessary arrangements with utility companies and other persons or corporations affected by the installation of such underground lines and facilities in accordance with the rules and regulations of the public utility commissioner of the State of Oregon.

Applicant agrees to the requirement and it will be a condition of approval. The criterion is met.

16.33.540 UNDERGROUND UTILITIES EASEMENTS. Underground easements for utilities and overhead utility facilities shall be provided by the subdivider and set forth on the final plat. Each easement shall be a minimum of 10 feet in width except on the perimeter of the subdivision where the minimum width shall be five feet, and when possible, such easement shall be centered on or bordering a lot line. The subdivider

shall provide five-foot utility easements on both sides of all road or street rights-of-way of 60 feet or less.

Applicant intends to comply with this standard and it will be reviewed with the subdivision plat.

16.33.560 STREET LIGHTING. Proposed subdivisions located within established street lighting district boundaries shall submit street lighting plans from the appropriate power company to the director of public works for approval. All provisions for wiring for underground installation shall be completed before the final street improvement is made.

No public streets are being created, this standard does not apply.

11. Access standards are listed in Marion County Code Chapter 16.33.680 and state:

All lots must have a minimum 20 feet of frontage on a public right-of-way or, when an access easement is proposed to serve one or more lots in any partitioning, the location and improvement of the roadway access shall conform to the following standards which are necessary for adequate access for emergency vehicles. Evidence that the access has been improved to these standards and a driveway permit has been obtained shall be provided prior to the issuance of building permits on the parcels served by the access easement. The easement shall meet the following standards:

A. Have a minimum easement width of 25 feet;
B. Have a maximum grade of 12 percent;
C. Be improved with a paved surface with a minimum width of 20 feet;
D. Provide adequate sight-distance at intersections with public roadways;
E. Be provided with a road name sign at the public roadway as identification for emergency vehicles in accordance with Chapter 11.55 MCC, Naming and Addressing Roads/Property.

All of the proposed lots have frontage on either Hollywood Dr NE or Leafwood Ave NE and will each have a driveway that is served by the street upon which the lot has frontage. Each lot exceeds 20 feet of frontage on a public right-of-way. No private access easement is being proposed.

12. Marion County Code Chapter 16.33.1020 addresses time limits for filing and recording a plat and states:

When the subdivider has expressed intent to develop a subdivision in phases or stages, the first phase of the final plat, or, if not to be developed in phases or stages, the completed final plat must be filed with the director by the first day of the 24th month following the date of detailed approval or said detailed approval shall be deemed null and void. The final plat shall be approved by public officials as required by law and recorded within 180 days following the date the plat is submitted to the director. Extensions to either time deadline may be approved by the director upon submittal of written justification prior to the expiration of the time limit.

If Applicant decides to develop the subdivision in phases, it must be expressed in writing prior to submitting the plat for the first phase. This requirement will be made a condition of approval.

13. Marion County Planning Staff recommends approval of the proposal and recommends that if the hearings officer grants the Applicant's application, certain conditions be applied as necessary for the public health, safety, and welfare.

VII. Decision

It is hereby found that Applicant has met the burden of proving the applicable standards and criteria for approval of zone change to change the zone for UD (Urban Development) to RM (Multi-Family Residential) and to subdivide a .64 acre parcel into 4 lots located at 3200 Hollywood Drive NE, Salem. Therefore, the Hearings Officer **GRANTS** the zone change and subdivision application, subject to the conditions set forth below. The conditions are necessary for the public health, safety and welfare.

1. Applicant shall obtain all permits required by the Marion County Building Inspection Division.

2. All future development on the property must satisfy the specific development standards in the RM zone, chapter 16.04 and the general development standards found in Chapter 16.27 of the Marion County Code.

3. Public Works Land Development, Engineering and Permits requests that the following conditions be applied:

   ENGINEERING CONDITIONS

   Condition A – Prior to plat approval construct utility service extensions serving each of the developable lots facing Leafwood Avenue, and, a 5-foot wide sidewalk along the proposed west lot Leafwood Avenue frontage, including east termination ADA ramp.

   Condition B – On the subdivision plat dedicate a Leafwood Avenue 25-foot Right-of-Way (R/W) half-width including any necessary additional R/W to accommodate a sidewalk transition extending from the existing corner pedestrian ramp and around the backside of the existing utility pole.

   Condition C – Prior to plat approval, submit civil engineering plans for the development to include Leafwood Avenue facing vehicle driveway access, pedestrian frontage improvements, stormwater management facilities, utility service extensions and erosion control.

   Condition D –Prior to plat approval design, permit and construct a stormwater management system serving each of the developable lots to include detention and Water Quality Treatment (WQT), and, record a stormwater Operations & Maintenance (O&M) Agreement for same. In the alternative, individual lot systems such as raingardens sized based upon county prescriptive

parameters may be constructed prior to issuance of a Certificate of Occupancy on the developable lots. For the latter scenario, a template design must be submitted.

VIII. Referral of Decision

This document is a referral to the Marion County Board of Commissioners. A hearings officer's decision to approve a zone change does not become final until the Board adopts an ordinance implementing the decision. Any aggrieved or affected person may file with the Marion County Clerk (555 Court Street NE, Salem, Oregon), a written request for a public hearing before the Board within fifteen (15) days of the date of mailing of this decision. The request must be accompanied by and will not be accepted without payment of a $500.00 fee. If the Board denies the appeal, $300 of the fee will be refunded. The Board has discretion whether to hold a public hearing. After fifteen (15) days, the Board may take final action on this application without conducting another public hearing.

DATED this 5th day of May, 2026.

Jill F. Foster
Marion County Hearings Officer

CERTIFICATE OF MAILING

I hereby certify that I served the foregoing order on the following persons:

Antonio Diaz
3200 Hollywood Drive NE
Salem, OR 97305

Shea Romero
425 Ewald Ave. SE
Salem, OR 97302

City: Salem *(via email)*
apanko@cityofsalem.net

Area Advisory Committee #1:
laurelhines@gmail.com
arkaye2@gmail.com

Roger Kaye
Friends of Marion County
P.O. Box 3274
Salem, OR 97302

1000 Friends of Oregon
133 SW 2nd Ave
Portland, OR 97204-2597

Pudding River Watershed Council *(via email)*
anna@puddingriverwatershed.org
cleanpuddingriver@gmail.com

County Agencies Notified:

Assessor's Office *(via email)*
assessor@co.marion.or.us

Tax Collector *(via email)*
NMcVey@co.marion.or.us

Surveyor's Office *(via email)*
KInman@co.marion.or.us

Fire District: *(via email)*
Salemfire@cityofsalem.net

Planning Division *(via email)*
breich@co.marion.or.us
abarnes@co.marion.or.us
jspeckman@co.marion.or.us
ediaz@co.marion.or.us
gpeden@co.marion.or.us

Building Inspection *(via email)*
pwolterman@co.marion.or.us
Kaldrich@co.marion.or.us
CTate@co.marion.or.us

Public Works LDEP Section *(via email)*
jrasmussen@co.marion.or.us
mcldep@co.marion.or.us
JShanahan@co.marion.or.us

School District: *(via email)*
Fridenmaker_david@salemkeiz.k12.or.us

Code Enforcement *(via email)*
CGoffin@co.marion.or.us

State Agencies Notified:
askenergy@Oregon.gov
Jennifer.b.ringo@odfw.oregon.gov
park.info@oregon.gov
carrie.landrum@state.or.us
Mike.I.mccord@wrd.state.or.us
Gregory.j.wcker@oregon.gov

By mailing to them copies thereof. I further certify that said copies were placed in sealed envelopes addressed as noted above, that said copies were deposited in the United States Post Office at Salem, Oregon, on the 5th day of May, 2023 and that the postage thereon was prepaid.

Gayle Simons

Administrative Assistant to the
Hearings Officer

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: 5/20/2026

Department: Public Works

Title: Board Order Authorizing the Expenditure of County Road Funds on Kubin Rd SE

Management Update/Work Session Date: 4/14/2026 **Audio/Visual aids** ☐

Time Required: 0 minutes **Contact:** Scott Wilson **Phone:** 503-365-3129

Requested Action:
Approve a Board Order authorizing the expenditure of County Road Fund dollars for emergency maintenance activities on Kubin Road NE, a Local Access Road.

Issue, Description & Background:
Kubin Road SE is a local access road in unincorporated Marion County. Two 12-inch culverts on the roadway were severely damaged during the 2020 wildfires and are no longer functioning, placing them at risk of collapse. The failed culverts are causing significant drainage issues that threaten to wash out the roadway, creating hazardous conditions for residents and potentially delaying emergency response access. This Board Order authorizes a one-time expenditure of County Road Fund dollars to complete emergency maintenance activities to restore proper drainage and protect the driving surface

Financial Impacts:
The cost of the emergency maintenance work will be funded within the existing Marion County Public Works road maintenance budget. No additional funding or grant resources are required

Impacts to Department & External Agencies:
None

List of attachments:
Board Order

Presenter:
Scott Wilson

Department Head Signature:
Brian Nicholas
Digitally signed by Brian Nicholas
Date: 2026.05.06 08:04:22 -07'00'

BEFORE THE BOARD OF COMMISSIONERS

FOR MARION COUNTY, OREGON

In the matter of authorizing the expenditure)
of county moneys on Kubin Road SE.)

ORDER No. _____

This matter came before the Marion County Board of Commissioners at its regularly scheduled public meeting on Wednesday, May 20, 2026.

WHEREAS, Kubin Road SE is a local access road located in the unincorporated area of Marion County; and

WHEREAS, ORS 368.031 authorizes a county governing body to expend county moneys on a local access road if it determines, among other reasons, that the work is an emergency; and

WHEREAS, two 12-inch culvert crossings on Kubin Road SE were severely damaged during the 2020 wildfires and are no longer functioning and are at risk of collapse. The damaged culverts are causing drainage issues that threaten to wash out the roadway, thereby creating hazardous conditions for residents and limiting safe and timely access for emergency response vehicles; and

WHEREAS, the condition of these culverts constitutes an emergency and necessitates county work to protect public safety and preserve access; now, therefore,

IT IS HEREBY ORDERED that the work necessary to repair the two culvert crossings on Kubin Road SE constitutes an emergency, and county moneys may be expended for a single maintenance project pursuant to ORS 368.031.

DATED at Salem, Oregon, this 20th day of May, 2026.

MARION COUNTY BOARD OF COMMISSIONERS

_____
Chair

_____
Commissioner

_____
Commissioner

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Public Works

Title: Wheatland Ferry/Yamhill Co. IGA revision

Management Update/Work Session Date: 3/17/2026 **Audio/Visual aids** ☐

Time Required: 5 minutes **Contact:** Scott Wilson **Phone:** 503-365-3129

Requested Action:

Approve the enclosed Intergovernmental Agreement (IGA) between Marion and Yamhill Counties specifying the cost sharing provisions between the counties for Marion County's operation and maintenance of the Wheatland Ferry.

Issue, Description & Background:

The current 2003 Wheatland Ferry IGA uses a 76% Marion County / 24% Yamhill County cost-sharing split with annual contribution caps for Yamhill County and no provisions for capital cost-sharing. Rising operating expenses now exceed those limits.

The proposed IGA would replace the 2003 agreement, eliminate annual caps, apply the 76%/24% population-based cost-sharing split to operations, maintenance, and capital improvements, add semi-annual coordination meetings, and implement biennial population-based adjustments.

Financial Impacts:

The new population-based model applies cost-sharing to all operating, maintenance, and capital expenses. Removing annual caps may increase Yamhill County's share in high-expense years, but provides a consistent and sustainable funding structure for ferry operations.

Impacts to Department & External Agencies:

- Ensures predictable, equitable cost distribution for long-term ferry operations.
- Supports improved coordination with Yamhill County through semi-annual meetings.
- Enhances planning for future capital improvements.

List of attachments: Intergovernmental agreement

Presenter: Scott Wilson

Department Head Signature: Brian Nicholas

Digitally signed by Brian Nicholas
Date: 2026.02.26 15:50:00 -08'00'

Contract Review Sheet

Intergovernmental Agreement **PW-6867-26**

Title: **Yamhill County Intergovernmental Agreement for Ownership and Operation of the Wheatland Ferry**

Contractor's Name: **Yamhill County**

Department: **Public Works Department** Contact: **Janet Wilson**

Analyst: **Kathleen George** Phone #: **(503) 566-4139**

Term - Date From: **July 1, 2026** Expires: **Perpetual**

Original Contract Amount: **$ -** Previous Amendments Amount: **$ -**

Current Amendment: **$ -** New Contract Total: **$ -** Amd% **0%**

Bidirectional ☐ Federal Funds ☐ Reinstatement ☐ Retroactive ☐ Amendment greater than 25%

Source Selection Method: **ORS190 Intergovernmental Agreement** **Department**

Description of Services or Grant Award

This Intergovernmental Agreement (IGA) is an agreement between Marion County and Yamhill County providing for the conditions and requirements of joint ownership and operations of the Wheatland Ferry. This agreement replaces the 2003 agreement and eliminates annual caps, applies the 76%/24% population-based formula to operations, maintenance, and capital improvements, adds semi-annual coordination meetings, and implements biennial population-based adjustments.

Desired BOC Session Date: **5/20/2026** Contract should be in DocuSign by: **4/29/2026**

Agenda Planning Date **5/7/2026** Printed packets due in Finance: **5/5/2026**

Management Update **3/17/2026** BOC upload / Board Session email: **5/6/2026**

BOC Session Presenter(s) **Scott Wilson** Code: **Y**

REQUIRED APPROVALS

	05/06/2026	Janet Wilson Janet Wilson (May 6, 2026 08:16:27 PDT)	05/06/2026
Finance - Contracts	Date	Contract Specialist	Date
Legal Counsel	Date	Chief Administrative Officer	Date

INTERGOVERNMENTAL AGREEMENT

THIS AGREEMENT is made and entered into by and between YAMHILL COUNTY, a political subdivision of the State of Oregon, acting by and through its Yamhill County, and Marion County, a political subdivision of the State of Oregon, both collectively referred to as Party or Parties.

RECITALS

WHEREAS, Yamhill County and Marion County are both units of local governments; and

WHEREAS, ORS 190.010 permits a unit of local government to enter into a written agreement with any other unit of local government for the performance of any or all functions and activities that the agency has authority to perform.

NOW, THEREFORE, in consideration of the promises and the mutual covenants and conditions set forth herein, it is hereby agreed by the Parties as follows:

AGREEMENT

1. TERM. This Agreement shall become effective on July 1, 2026. The term of this Agreement is perpetual until terminated as provided in Section 10.

2. DOCUMENTS / ORDER OF PRECEDENCE. This Agreement consists of the following documents, each of which is attached and incorporated herein by reference:

   A. This Agreement less exhibits
   B. Exhibit A – Wheatland Ferry Billing

3. CONSIDERATION. Parties shall share the net Costs of Operation, maintenance, and improvement projects of the ferry on a percentage of population basis. The percentage of total population between Marion County and Yamhill County is 76% and 24%, respectively.

   A. Marion County shall report on Costs of Operations and maintenance, repairs, and capital improvements to Yamhill County monthly, ("Monthly Expenses,") and as detailed in Exhibit A.

      i. Cost of Operations include, but are not limited to: insurance, legal costs, settlements, judgements, and any other liability.

      ii. If the monthly revenues do not exceed Monthly Expenses, Yamhill County shall reimburse Marion County for the outstanding balance in an amount equal to Yamhill County's current population percentage.

      iii. If monthly revenues exceed Monthly Expenses, Marion County shall credit Yamhill County for the excess revenue in an amount equal to Yamhill County's current population percentage. This credit balance shall be carried forward to offset balances due to future billing cycles.

4. SERVICES. In consideration of the mutual obligations and benefits herein set forth, the Parties agree as follows:

A. Parties shall jointly own the Wheatland Ferry boat.

B. Marion County shall be responsible for the management and operation of the ferry as follows:

i. The hours of operation shall be as agreed upon by the Parties. However, the ferry shall not operate for more than 16 hours in any single day unless the county road officials of each Party agree in writing.

ii. Marion County personnel policies, collective bargaining agreements, and all applicable federal regulations shall govern ferry operators and ferry operations.

iii. When the ferry is not in operation for any reason, compensation for ferry operators shall be the sole responsibility and expense of Marion County.

iv. Ferry operators shall have routine physical examinations as required by federal regulations. The cost of the physical examinations shall be included in the cost to operate the ferry.

C. Each Party shall be responsible for maintenance of the accesses, approaches, and ferry landings on each Party's respective side of the Willamette River.

D. Marion County shall determine the appropriate amount and category of all tolls for using the ferry. Marion County shall set the tolls to offset the expected expenses of the ferry on a periodic basis. Marion County shall inform Yamhill County of any changes to the tolls at least 30 days prior to the effective date.

E. Representatives for each Party shall meet semi-annually to discuss service levels, operations and maintenance costs, and capital improvement projects for budget projections.

F. The population percentage shall be reviewed every two years, no later than January 30 of even numbered years. Adjustments shall be made and adjusted accordingly and implemented on July 1 of the same calendar year.

5. INDEPENDENT CONTRACTOR. Parties are independent contractors and not employees of or agents of each other. Neither Party shall be responsible for any claims, demands or causes of action of any kind or character arising in favor of any person, on account of personal injuries, or death, or damage to property occurring, growing out of, incident to, or resulting directly or indirectly from the operations or activities of the other Party.

6. REPRESENTATIONS AND WARRANTIES.

A. Yamhill County Representations and Warranties. Yamhill County represents and warrants to Marion County that:

i. Yamhill County is a unit of local government duly organized and validly existing under the laws and jurisdiction of the State of Oregon.

ii. Yamhill County has the power and authority to enter into and perform this Agreement pursuant to ORS 190.003 to 190.130.

iii. The making and performance by Yamhill County of this Agreement: (a) has been duly authorized by all necessary action of the Yamhill County; (b) does not and will not violate any provision of any applicable law, rule, regulation, or order of any court, regulatory commission, board, or other administrative agency or any Yamhill County ordinance or other organizational document; and (c) does not and will not result in the breach of, or constitute a default or require any consent under any other agreement or instrument to which Yamhill County is Party or by which Yamhill County may be bound or affected.

iv. No authorization, consent, license, approval of, or filing or registration with or notification to any governmental body or regulatory or supervisory authority is required for the execution, delivery or performance by Yamhill County of this Agreement, other than those that have already been obtained.

v. This Agreement has been duly executed and delivered by Yamhill County and constitutes a legal, valid and binding obligation of Yamhill County enforceable in accordance with its terms.

B. Marion County Representations and Warranties. Marion County represents and warrants to Yamhill County that:

i. Marion County is a unit of local government duly organized and validly existing under the laws and jurisdiction of the State of Oregon.

ii. Marion County has the power and authority to enter into and perform this Agreement pursuant to ORS 190.003 to 190.130.

iii. The making and performance by Marion County of this Agreement: (a) has been duly authorized by all necessary action of Marion County; (b) does not and will not violate any provision of any applicable law, rule, regulation, or order of any court, regulatory commission, board, or other administrative agency or any Marion County ordinance or other organizational document; and (c) does not and will not result in the breach of, or constitute a default or require any consent under any other agreement or instrument to which Marion County is party or by which County may be bound or affected.

iv. No authorization, consent, license, approval of, or filing or registration with or notification to any governmental body or regulatory or supervisory authority is required for the execution, delivery or performance by Marion County of this Agreement, other than those that have already been obtained.

v. This Agreement has been duly executed and delivered by Marion County and constitutes a legal, valid, and binding obligation of Marion County enforceable in accordance with its terms.

7. AMENDMENT. This Agreement may be amended to the extent permitted by applicable statutes, administrative rules, ordinances, and local ordinances. No amendment shall bind either Party unless in writing and signed by both Parties.

8. COMPLIANCE WITH LAWS. Each Party agrees to comply with all federal, state, and local laws, codes, regulations and ordinances applicable to the provision of services under this Agreement, including, without limitation, the provisions of: (i) Title VI of the Civil Rights Act of 1964; (ii) Section V of the Rehabilitation Act of 1973; (iii) the Americans with Disabilities Act of 1990 (Pub L No 101- 336), ORS 659.425, and all amendments of and regulations and administrative rules established pursuant to those laws; and (iv) all other applicable requirements of federal and state civil rights and rehabilitation statutes, rules, and regulations.

9. INDEMNIFICATION. Each Party shall indemnify, defend, save, and hold harmless the other Party and its officers, employees and agents from and against all claims, suits, actions, liabilities, damages, losses, or expenses, arising out of the acts or omissions of the Party, its officers, agents, or employees performing under this Agreement.

10. INSURANCE.

A. Workers Compensation. To the extent applicable, each Party represents and warrants that it maintains and will maintain in full force and effect coverage sufficient to meet the requirements of Oregon workers' compensation law.

B. General Liability. To the extent applicable, each Party represents and warrants that it maintains and will maintain in full force and effect liability insurance covering activities and operations described in this Agreement for the duration of the Agreement.

11. TERMINATION.

A. Termination for Convenience. After July 1, 2026, either Party may terminate this Agreement effective July 1, 2027, or July 1 of any year thereafter by providing written notice of termination to the other Party before December 31 in the year prior to termination. Such termination shall be without liability or penalty. No such termination shall prejudice any obligations or liabilities of either party already accrued prior to the effective date of termination.

B. Termination for Cause. It is further agreed that either Party may immediately terminate this Agreement without liability or penalty for any of the following causes:

i. Either Party breaches any of the provisions of this Agreement.

ii. A Party no longer holds all licenses or certificates that are required to perform the services required under this Agreement.

iii. A Party lacks lawful funding, appropriations, limitations, or other expenditure authority at levels sufficient to allow either Party to perform in accordance with the provisions of this Agreement; or

iv. Federal, state, or local laws, regulations, or guidelines are modified or interpreted in such a way that either the services required under this Agreement are prohibited, or either Party is prohibited from paying for such services from the planned funding source.

12. FORCE MAJEURE. Neither Party shall be held responsible for delay or default caused by fire, riot, civil disobedience, acts of God, or war where such cause was beyond the reasonable control of either Party. Both Parties shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance of its obligations under this Agreement.

13. ASSIGNMENT; DELEGATION; SUCCESSOR. Neither Party shall assign, delegate, nor transfer any of its rights or obligations under this Agreement without the other Party's prior written consent. A Party's written consent does not relieve the other Party of any obligations under this Agreement, and any assignee, transferee, or delegate is considered the agent of that Party. The provisions of this Agreement shall be binding upon and shall inure to the benefit of the Parties to the Agreement and their respective successors and assigns.

14. GOVERNING LAW, JURISDICTION, VENUE, & ATTORNEY FEES. This Agreement shall be governed and construed in accordance with the laws of the State of Oregon, without resort to any jurisdiction's conflict of laws rules or doctrines. Any claim, action, suit, or proceeding (collectively, "the claim") between Yamhill County (and/or any other agency or department of Yamhill County) and Marion County that arises from or relates to this Agreement shall be brought and conducted solely and exclusively within the Circuit Court of Marion County for the State of Oregon. Provided, however, if the claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. Parties hereby consent to the *in personam* jurisdiction of said courts. Each Party shall be responsible for the Party's attorney fees, costs and disbursements at all times including appeals.

15. RECORDS. Parties shall maintain all fiscal records relating to this Agreement in accordance with generally accepted accounting principles. In addition, both Parties shall maintain any other records pertinent to this Agreement in such a manner as to clearly document both Parties' performance hereunder. Parties acknowledge and agree that each Party, the Oregon Secretary of State's Office, the Federal Government and their duly authorized representatives shall have access to such fiscal records and all other documents that are pertinent to this Agreement for the purpose of performing audits and examinations and making copies, transcripts and excerpts. All such fiscal records and documents shall be retained by Parties for a minimum of six (6) years (except as required longer by law) following final payment and termination of this Agreement, or until the conclusion of any audit, controversy, or litigation arising out of or related to this Agreement, whichever date is later.

16. NOTICES. All notices, bills, and payments shall be made in writing and may be given by personal delivery or by mail. Notices, bills, and payments sent by mail should be addressed as follows:

Yamhill County:
Public Works Department
ATTN: Mark A. Lago
535 NE 5th Street
McMinnville, Oregon 97128
lagom@yamhillcounty.gov

Marion County:
Public Works Department
ATTN: Scott Wilson
5155 Silverton Rd. N.E.
Salem, Oregon 97305
swwilson@co.marion.or.us
pwap@co.marion.or.us

17. WAIVER. The failure of either Party to enforce any provision of this Agreement shall not constitute a waiver by that Party of that or any other provision of this Agreement, or the waiver by that Party of the ability to enforce that or any other provision in the event of any subsequent breach.

18. ENTIRE AGREEMENT. This Agreement constitutes the entire agreement between the Parties on the subject matter hereof. No waiver, consent, modification or change of terms or provisions of this agreement shall bind either Party unless in writing and signed by both Parties. Such waiver, consent, modification, or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this agreement.

19. COUNTERPARTS. This Agreement and any subsequent amendments may be executed in any number of counterparts (including by facsimile, PDF, or other electronic transmission), each of which so executed shall be deemed to be an original, and such counterparts shall together constitute one agreement binding on all Parties.

20. SEVERABILITY. If any provision of this Agreement shall be held invalid or unenforceable by any court or tribunal of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision, and the obligations of the Parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.

21. SURVIVAL. All rights and obligations shall cease upon termination of this Agreement, except for those rights and obligations that by their nature or express terms survive termination of this agreement. Termination shall not prejudice any rights or obligations accrued to the Parties prior to termination.

THIS AGREEMENT CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE IN TERMS OF THIS AGREEMENT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE, IF MADE, SHALL BE EFFECTIVE ONLY FOR THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN NOT SPECIFIED HEREIN REGARDING THIS AGREEMENT. THE PARTIES, BY SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS AGREEMENT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

Board Order _____

[remainder of page intentionally blank; signature page follows]

IN WITNESS WHEREOF, the Parties hereto have executed, or caused to be executed, this Agreement on the date indicated by their duly authorized officials.

MARION COUNTY	**YAMHILL COUNTY**
SEE ATTACHED SIGNATURE PAGE Signature	_____ Chair, KIT JOHNSTON
_____ Name (printed)	_____ Commissioner, MARY STARRETT
_____ Title	_____ Commissioner, BUBBA KING
_____ Date	_____ Date
	APPROVED AS TO FORM By:_____ _____ [COUNTY COUNSEL NAME & TITLE]

SIGNATURE PAGE FOR
YAMHILL COUNTY INTERGOVERNMENTAL AGREEMENT FOR OWNERSHIP AND OPERATION OF THE WHEATLAND FERRY - PW-6867-26
between
MARION COUNTY and YAMHILL COUNTY

MARION COUNTY SIGNATURES
BOARD OF COMMISSIONERS:

_____
Chair Date

_____
Commissioner Date

_____
Commissioner Date

Authorized Signature: _____
Department Director or designee Date

Authorized Signature: _____
Chief Administrative Officer Date

Reviewed by Signature: _____
Marion County Legal Counsel Date

Reviewed by Signature: _____ 05/06/2026
Marion County Contracts & Procurement Date

EXHIBIT A

WHEATLAND FERRY BILLING
FISCAL YEAR _____

Billing period Month/Year

	DESCRIPTION	REVENUE
REVENUE	Monthly Revenue	$ -
	Capital Improvement Revenue	$ -
	TOTAL REVENUE	$ -

	DESCRIPTION	COSTS
LABOR	Ferry Operators	$ -
	Toll Takers	$ -
	TOTAL	$ -
MATERIALS & SERVICES	Electric Propulsion	$ -
	Utilities	$ -
	Insurance	$ -
	Administrative Services	$ -
	Admin & Support Personnel	$ -
	Armored Car Service	$ -
	Operating Costs	$ -
	Outside Legal Fees	$ -
	TOTAL	$ -
MAINTENANCE	Ferry Repairs	$ -
	Dredging	$ -
	Haul-Out	$ -
		$ -
	TOTAL	$ -
CAPITAL IMPROVEMENT	Capital Improvement Expenses	$ -
		$ -
		$ -
		$ -
	TOTAL	$ -

TOTAL EXPENSES	$ -
NET REVENUE	$ -
YAMHILL COUNTY'S PORTION _____	$ -

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: 5/20/26

Department: Public Works

Title: Construction and Other Site Improvements at Various Radio Communications Sites for the Marion County Radio Project

Management Update/Work Session Date: 4/30/2026 **Audio/Visual aids** ☐

Time Required: 5 minutes **Contact:** Brian Nicholas **Phone:** x7943

Requested Action: Approve Contract No. PW-7112-26 in the amount of $242,470.00 with Summit Solutions Group, LLC, for the construction and other site improvements at up to six (6) radio communications sites.

Issue, Description & Background: Marion County is in the process of constructing the Marion County Radio Project, a new P25-compliant public safety radio communications system for use by first responder agencies and other public service agencies within Marion County. To support the new radio system, Marion County will improve up to six (6) existing radio sites. The sites to be improved under this contract are (1) Crosby, (2) Marion County Public Works, (3) Eastview Lane, (4) METCOM 911, (5) Eagle Crest (RESERVED), and (6) Santiam Communicationss Center (RESERVED).

Financial Impacts: This is a budgeted expense in the current fiscal year under CIP 22-308.

Impacts to Department & External Agencies: The Marion County Sheriff's Office and first responder agencies throughout Marion County will benefit from a stable, unified radio system meeting current public safety radio standards.

List of attachments: Contract No. PW-7112-26

Presenter: Brian Nicholas

Department Head Signature: Brian Nicholas

Digitally signed by Brian Nicholas
Date: 2026.04.23 15:42:14 -07'00'

Contract Review Sheet

Public Improvement Agreements **PW-7112-26**

Title: **Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites**

Contractor's Name: **Summit Solutions Group LLC**

Department: **Public Works Department** Contact: **Alicia Jones**

Analyst: **Kathleen George** Phone #: **-4388**

Term - Date From: **Execution** Expires: **July 31, 2026**

Original Contract Amount: **$ 242,470.00** Previous Amendments Amount: **$ -**

Current Amendment: **$ -** New Contract Total: **$ 242,470.00** Amd% **0%**

Outgoing Funds ☑ Federal Funds ☐ Reinstatement ☐ Retroactive ☐ Amendment greater than 25%

Source Selection Method: **40-0200 Invitation to Bid - Public Improvement** ITB# **PW1791-26**

Description of Services or Grant Award

Construction of Architectural, Structural, Mechanical, Electrical and Other Site Improvements at up to Six (6) Non-Tower Radio Communications Sites for the Marion County Radio Project.

Desired BOC Session Date: **5/20/2026** Contract should be in DocuSign by: **4/29/2026**

Agenda Planning Date **5/7/2026** Printed packets due in Finance: **5/5/2026**

Management Update **5/5/2026** BOC upload / Board Session email: **5/6/2026**

BOC Session Presenter(s) **Brian Nicholas** Code: **Y**

REQUIRED APPROVALS

	04/30/2026		
Finance - Contracts	Date	Contract Specialist	Date
Scott A. Norris Scott A. Norris (May 4, 2026 16:34:56 PDT)	05/04/2026	Jan Fritz Jan Fritz (May 4, 2026 17:25:32 PDT)	05/04/2026
Legal Counsel	Date	Chief Administrative Officer	Date

CONSTRUCTION CONTRACT PW-7112-26

This Contract made and entered into by and between Marion County, A Political Subdivision of the State of Oregon, acting by and through its duly elected, qualified, and acting Board of Commissioners, hereinafter called the "County" and, Summit Solutions Group LLC, hereinafter called the "Contractor" for the Project entitled: Construction and Other Site Improvements at Up to Six (6) Radio Communications.

WITNESSETH

Contractor, in consideration of the sum of $ 242,470.00 (the "Contract Price"), to be paid to the Contractor by County in the manner and at the time hereinafter provided, and subject to the terms and conditions provided in the Invitation To Bid and other Contract Documents, all of which are incorporated herein by reference, hereby agrees to perform all Work described and reasonably inferred from the Contract Documents. Contractor shall provide for and furnish all necessary machinery, tools, apparatus, equipment, supplies, materials and labor, and do all things in accordance with the applicable Plans and Specifications, and in accordance with such alterations and modifications of the same as may be made by the County.

This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of Contractor.

1. Agency's payments to Contractor under this Contract will be paid in whole or in part using federal funds. By signing this Contract, Contractor certifies neither it nor its employees, contractors, subcontractors or subgrantees who will perform the Project activities are currently employed by an agency or department of the federal government. Contractor shall comply with Exhibit G: *Appendix II To Part 200—Contract Provisions For Non-Federal Entity Contracts Under Federal Awards*.

   In accordance with 2 CFR 200.331, Contractor has been designated:
   - ☐ Subrecipient
   - ☑ Contractor/Vendor
   - ☐ Not applicable – (there are no federal funds tied to the contract)

   Assistance Listing Number (ALN) of federal funds to be paid through this Grant: 21.027.

2. Contract Exhibits. This Contract includes the following exhibits, each of which are incorporated into this Contract and by this reference are made a part hereof as though fully set forth herein:

   Exhibit A – BID SCHEDULE
   Exhibit B – BID CERTIFICATION
   Exhibit C – PERFORMANCE BOND
   Exhibit D – LABOR AND MATERIALS PAYMENT BOND
   Exhibit E – DRUG & ALCOHOL TESTING POLICY CERTIFICATION
   Exhibit F – FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM
   Exhibit G – PROJECT WAGE RATES
   Exhibit H – APPENDIX II TO PART 200 – CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS
   Exhibit I – SPECIAL PROVISIONS
   Exhibit J – PROJECT SUMMARY LIST (PSL)
   Exhibit K – PLANS AND DRAWINGS AND SUPPORTING DOCUMENTS
   Exhibit L – GENERAL CONDITIONS FOR CONSTRUCTION FOR MARION COUNTY (v2024)
   Exhibit M – INVITATION TO BID AND INVITATION TO BID ADDENDUM #1 THROUGH #1

   In the event of a conflict between two or more provisions within any of the documents comprising this Contract, the language in the provision with the highest precedence will control. The precedence of

each of the documents comprising this Contract is as follows, listed from highest precedence to lowest precedence: (1) this Contract without exhibits, (2) Exhibit I, (3) Exhibit L, (4) Exhibit H, (5) Exhibit G, (6) Exhibit M, (7) Exhibit J, (8) Exhibit K, (9) Exhibit A, (10) Exhibit B, (11) Exhibit C, (12) Exhibit D, (13) Exhibit E, and (14) Exhibit F.

3. Contractor shall pay all contributions or amounts due the Industrial Accident Fund from such Contractor or Subcontractor incurred in the performance of the Contract.

4. Contractor shall not permit any lien or claim to be filed or prosecuted against Agency, the state, or any subdivision thereof on account of any labor or material furnished.

5. Contractor agrees to pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

6. Contractor shall indemnify, defend, save and hold harmless the Agency and its officers, employees, agents and volunteers, the State of Oregon, Oregon Transportation Commission and its members, Department of Transportation and its officers, employees and agents from and against any and all claims, actions, liabilities, damages, losses, or expenses, including attorneys' fees, arising from a tort, as now or hereafter defined in ORS 30.260, caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Contractor or any of the officers, agents, employees or subcontractors of the Contractor ("Claims"). It is the specific intention of the Parties that State shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of State, be indemnified by the Contractor and subcontractor from and against any and all Claims.

   Any such indemnification shall also provide that neither Contractor and subcontractor nor any attorney engaged by Contractor and subcontractor shall defend any claim in the name of Marion County or the State of Oregon or any agency of the State of Oregon, nor purport to act as legal representative of the State of Oregon or any of its agencies, without the prior written consent of the Oregon Attorney General. The State of Oregon may, at anytime at its election assume its own defense and settlement in the event that it determines that Contractor is prohibited from defending the State of Oregon, or the Contractor is not adequately defending the State of Oregon's interests, or that an important governmental principle is at issue or that it is in the best interests of the State of Oregon to do so. The State of Oregon reserves all rights to pursue claims it may have against Contractor if the State of Oregon elects to assume its own defense.

7. Money due to Contractor under and by virtue of this Contract may be returned for the use of the Agency; or, in case no money is due, Contractor's surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the County; except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that Contractor is adequately protected by public liability and property damage insurance.

8. That in consideration of the faithful performances of all of the obligations, both general and special, herein set out and in consideration of the faithful performance of the Work as set forth in this Contract, the applicable Invitation to Bid, Plans, Specifications, Bid, and all general and detailed specifications and plans which are a part hereof, and in accordance with the directions of the Agency and to its satisfaction, the Agency agrees to pay to the said Contractor the amount earned, as determined from the actual quantities of work performed and the prices and other basis of payment specified, and taking into consideration any amounts that may be deductible under the terms of the Contract, and to make such payments in the manner and at the time provided in the Contract.

9. In the event the Board of Commissioners of the Agency reduces, changes, eliminates, or otherwise modifies the funding for any of the services identified, the Contractor agrees to abide by any such decision, including termination of service.

10. The Agency delegates to the Marion County Engineer the authority and responsibility for issuing approvals, providing notices, receiving notices, issuing directives, authorizing change orders, and avoiding and resolving disputes.

11. This contract may be increased by twenty-five (25) percent over the original contract amount to include additional work for the projects specified in the contract, upon mutual agreement of both parties.

12. Contractor, its assignees and successors in interest agree to comply with the requirements of the Marion County Public Works Department Federally Funded Transportation Program Title VI Plan, herein incorporated by this reference, as follows:

    a. Compliance with Regulations.

       The Contractor shall comply with the Regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation (hereinafter DOT), Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

    b. Nondiscrimination.

       The Contractor, with regard to the Work performed during the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

    c. Solicitations for Subcontracts, including Procurement of Materials and Equipment.

       In all solicitations either by competitive bidding or negotiations made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this Contract and the Regulations relative to nondiscrimination on the ground of race, color, sex, or national origin.

    d. Information and Reports.

       The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by Agency or the Oregon Department of Transportation to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to Agency or the Oregon Department of Transportation as appropriate, and shall set forth what efforts it has made to obtain the information.

    e. Sanctions for Noncompliance.

       In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, Agency and the Oregon Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate including, but not limited to:

       i. Withholding of payments to the contractor under the Contract until the Contractor complies, and/or;

ii. Cancellation, termination, or suspension of the Contract, in whole or in part.

13. Incorporation of Provisions.

The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by state or federal Regulations or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontractor or procurement as Marion County may direct as a means of enforcing such provisions including sanctions for noncompliance.

14. Independent Contractor.

The Contractor is a separate and independently established business, retains sole and absolute discretion over the manner and means of carrying out the Contractor's activities and responsibilities for the purpose of implementing the provisions of this Contract, and maintains the appropriate license/certifications, if required under Oregon Law. Notwithstanding the preceding sentence, County reserves the right to determine schedule for the work to be performed and to evaluate the quality of the completed performance. This Contract shall not be construed as creating an County, partnership, joint venture, employment relationship or any other relationship between the Parties other than that of independent parties. The Contractor is acting as an "independent contractor" and is not an employee of County, and accepts full responsibility for taxes or other obligations associated with payment for services under this Contract. As an "independent contractor", Contractor will not receive any benefits normally accruing to County employees unless required by applicable law. Furthermore, Contractor is free to contract with other parties for the duration of the Contract.

15. Governing Law and Venue.

Any dispute between the County and the Contractor that arises from or relates to this Contract and that is not resolved under the provisions of Section 00199 of the General Conditions shall be brought and conducted solely and exclusively within the Circuit Court of Marion County; provided, however, if a dispute must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this be construed as a waiver by County on any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR BY EXECUTION OF THE CONTRACT HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION.

IN WITNESS WHEREOF, the parties hereto have subscribed their names and affixed their respective official seals below.

MARION COUNTY SIGNATURE
BOARD OF COMMISSIONERS:

Chair Date

Commissioner Date

Commissioner Date

Authorized Signature: Brian Nicholas (May 4, 2026 10:16:58 PDT) 05/04/2026
Department Director or designee Date

Authorized Signature: Jan Fritz (May 4, 2026 17:25:32 PDT) 05/04/2026
Chief Administrative Officer Date

Reviewed by Signature: Scott A. Norris (May 4, 2026 16:34:56 PDT) 05/04/2026
Marion County Legal Counsel Date

Reviewed by Signature: 04/30/2026
Marion County Contracts & Procurement Date

SUMMIT SOLUTIONS GROUP LLC SIGNATURE

Authorized Signature: _____
Date

Title: _____

MARION COUNTY PUBLIC WORKS

INVITATION TO BID

FOR

THE CONSTRUCTION OF
ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND
OTHER SITE IMPROVEMENTS AT UP TO SIX (6) RADIO COMMUNICATIONS
SITES FOR THE MARION COUNTY RADIO PROJECT

MARION COUNTY, OREGON

Bid Publication Date: March 11, 2026

Bid Opening: April 2, 2026

MARION COUNTY BID #: PW1791-26

OREGONBUYS BID SOLICITATION #: S-C25102-00016204

ONEOFFICE NO. 2026-402
ACCOUNTING PROJECT NO. 105876

MARION COUNTY BOARD OF COMMISSIONERS

Colm Willis	Commissioner
Kevin Cameron	Commissioner
Danielle Bethell	Commissioner

Brian Nicholas, Director of Public Works



Electronic copies of this Invitation To Bid and attachments, if any, can be obtained from the Marion County Procurement Portal at the URL:

https://contracts.co.marion.or.us/gateway/

TABLE OF CONTENTS

Page

INTRODUCTION 1
BID SCHEDULE 4
BID CERTIFICATION 5
BID BOND 11
PERFORMANCE BOND 12
LABOR AND MATERIALS PAYMENT BOND 14
DRUG & ALCOHOL TESTING POLICY CERTIFICATION 16
FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM INSTRUCTIONS 17
FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM 18
APPENDIX II TO PART 200 – CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS 19
SAMPLE CONSTRUCTION CONTRACT PW-XXXX-XX 23
PROJECT WAGE RATES 28
SPECIAL PROVISIONS 29
PROJECT SUMMARY LIST ..... **EXHIBIT J**
PLANS AND DRAWINGS ..... **EXHIBIT K**

CROSBY

T-1 COVER SHEET
EX-1 EXISTING CONDITIONS
G-1 GENERAL NOTES
C-1 OVERALL SITE PLAN
C-2 ENLARGED SITE PLAN
C-3 ELEVATIONS
C-4 INTERIOR SHELTER PLANS
C-5 SHELTER SECTIONS
E-1 SITE GROUNDING PLAN & DETAILS
E-2 GROUNDING DETAILS I
E-3 GROUNDING DETAILS II
RF-1.0 RF TOWER APPURTENANCES I
RF-1.1 RF TOWER APPURTENANCES II
RF-1.2 RF TOWER APPURTENANCES III
RF-1.3 RF TOWER APPURTENANCES IV

MARION COUNTY PUBLIC WORKS

T-1 COVER SHEET
EX-1 EXISTING CONDITIONS
G-1 GENERAL NOTES
C-1 OVERALL SITE PLAN
C-2 ENLARGED SITE PLAN
C-3 ELEVATIONS
C-4 INTERIOR SHELTER LAYOUT

C-5 COMPOUND DETAILS
C-6 DIESEL GENERATOR DETAILS
E-1 SITE GROUNDING PLAN & DETAILS
E-2 GROUNDING DETAILS I
E-3 GROUNDING DETAILS II
RF-1.0 RF TOWER APPURTENANCES I
RF-1.1 RF TOWER APPURTENANCES II
RF-1.2 RF TOWER APPURTENANCES III
RF-1.3 RF TOWER APPURTENANCES IV

EASTVIEW LANE

T-1 COVER SHEET
EX-1 EXISTING CONDITIONS
G-1 GENERAL NOTES
ER-1 GRADING & EROSION CONTROL PLAN
ER-2 GRADING & EROSION CONTROL PLAN DETAILS
C-1 OVERALL SITE PLAN
C-2 ENLARGED SITE PLAN
C-3 ELEVATIONS
C-4 INTERIOR SHELTER PLANS
C-5 SHELTER SECTIONS
C-6 COMPOUND DETAILS
C-7 GENERATOR AND PROPANE TANK DETAILS
C-8 HVAC DETAILS
E-1 SITE GROUNDING PLAN & DETAILS
E-2 GROUNDING DETAILS I
E-3 GROUNDING DETAILS II
RF-1.0 RF TOWER APPURTENANCES I
RF-1.1 RF TOWER APPURTENANCES II
RF-1.2 RF TOWER APPURTENANCES III
RF-1.3 RF TOWER APPURTENANCES IV
RF-1.4 RF TOWER APPURTENANCES V

METCOM 911

T-1 COVER SHEET
G-1 GENERAL NOTES
U-1 POWER ROUTE PLAN
U-2 ONE-LINIE DIAGRAM
SH-1 EQUIPMENT SHELTER EXTERIOR ELEVATIONS
SH-2 EQUIPMENT SHELTER INTERIOR ELEVATIONS
SH-3 ELECTRICAL ONE-LINE DRAWING
SH-4 ELECTRICAL PANEL SCHEDULE

EAGLE CREST (Reserved)

SANTIAM COMMUNICATIONS CENTER (Reserved)

SUPPORTING DOCUMENTS

EASTVIEW LANE

1. AS-CONSTRUCTED DRAWING

CUMMINS

1. SPECIFICATIONS – C36N6 36kW 60Hz OUTDOOR PROPANE GENSET
2. SPECIFICATIONS – C36N6 36kW 60Hz OUTDOOR DIESEL GENSET
3. SPECIFICATIONS – OTECB TRANSFER SWITCH-ELECTRONIC CONTROL: 150A/225A/260A

INTRODUCTION

1.1 Description of Work

Construction includes grading, excavation and backfilling; aggregate surfacing; fencing; structural concrete, structural and architectural improvements, roofing; doors and interior finishes; climate control systems; site electrical, propane generators and fuel storage, diesel generators, and grounding systems; interior electrical, and miscellaneous related Work. The estimated project cost range is $200,000 to $300,000

1.2 Pre-Bid Meetings

An optional pre-bid site visit will be held on Tuesday, March 17, 2026. To participate in this site visit, interested participants shall meet at Marion County Public Works, 5155 Silverton Road NE, Building 1, Salem, Oregon, 97305 at 7:45 am on the day of the pre-bid site visit. Site visits shall commence at 8:00 am. Site visits will include the Crosby, Marion County Public Works, Eastview Lane and METCOM 911 radio sites. Participants are responsible for providing their own transportation to and between sites.

Prospective bidders are ***not required*** to attend the pre-bid site visits to be eligible to submit a bid. Pre-bid site visits are provided for the convenience and awareness of prospective bidders. Any statement made at the pre-bid site visit will not change the Plans, Specifications, other Contract Documents or any other contract requirement unless a pre-bid addendum is issued by Marion County.

1.3 Requests for Clarification or Changes

As stated in section 00120.15 of the General Conditions for Marion County, any clarification of Plans and Specifications needed by the Bidder shall be submitted to Marion County at least seven (7) calendar days prior to the date of Bid Closing. Failure to request clarification or changes in a timely manner shall be deemed acceptance of all terms and conditions of the advertised Procurement.

1.4 Time, Place and Methods of Receiving Bids

Submit electronic bids as specified in Special Provisions 00120.45 by 2:00 p.m. on April 2, 2026. Bids will be considered time-stamped and received by the Agency at the time they are uploaded to the Procurement Collaboration Portal at:

https://contracts-marioncountygcc.msappproxy.net/gateway/.

It is the Bidder's responsibility to ensure that bids are received by the Agency prior to the stated submission deadline at the specified portal, email or physical address. Bids, withdrawals or modifications submitted after the time set for receiving bids will not be opened or considered.

PUBLIC BID OPENING

Electronic Bids will be publicly opened and read by the Single Point of Contact or designee immediately following the Closing date/time specified in section 1.4 of the ITB, at Marion County Public Works, Building 1, 5155 Silverton Rd NE, Salem, Oregon. Interested parties may attend the bid opening in person or virtually via Microsoft Teams. To attend virtually, join the following Teams meeting at the Closing date/time specified in Section 1.4 of the ITB: Construction and Other Site Improvements at Up to Six (6) Radio Communications Sites.

Bid results will be posted by 10:00 a.m. the next business day on the OregonBuys website at https://oregonbuys.gov/bso/ under the solicitation number listed above.

1.5 Revision or Withdrawal of Bids

Refer to section 00120.60 of the General Conditions for Construction for Marion County.

1.6 Time for Completion of Work

Complete all Work to be done no later than July 31, 2026. (Also see Special Provisions 180.50(h)).

Recording of the elapse of Calendar Days, if specified, will begin on the day the Contractor begins On-Site Work as defined in 00110.20.

1.7 Funding

This project is federally funded. The awarded proposer must comply with the federal provisions as stated within Appendix II to Part 200 – Contract Provisions for Non-Federal Entity Contracts under Federal Awards, enclosed.

1.8 Project Information

Information pertaining to this Project may be obtained from the following Single Point of Contact at Marion County Public Works, 5155 Silverton Road NE, Salem, Oregon 97305-3802:

Alicia Jones	503-373-4320	PWcontracts@co.marion.or.us

1.9 Bid Guarantee

No bid shall be considered unless it is accompanied by a surety bond, cashier's check, certified check, or irrevocable letter of credit by an insured institution, as defined in ORS 706.008, of the bidder in the amount of ten percent (10%) of the bid per 00120.40(e).

The county shall return the bid security to all bidders upon the execution of the contract. The county shall retain bid security if a bidder who is awarded a contract fails to promptly and properly execute the contract.

1.10 Applicable Specifications

The General Conditions applicable to the Work on this Project are the General Conditions for Construction for Marion County (v2024), Part 00100, available for download on the Marion County website at: https://www.co.marion.or.us/PW/Engineering/Pages/default.aspx.

The Special Provisions applicable to the Work on this Project are enclosed in this Invitation To Bid (ITB). The Special Provisions shall be understood to supersede the General Conditions by modification and/or supplement. All number references in the Special Provisions shall be understood to refer to the section or subsection of the General Conditions bearing like numbers.

1.11 Prevailing Wage Rate Requirements

This Project is subject to Oregon prevailing wage rate law (BOLI), federal Davis-Bacon prevailing wage rates and any amendments in effect at the time of solicitation. The existing state and federal prevailing wage rates last published at least 10 Calendar Days prior to the Bid Closing apply to this Project, unless modified by Addendum.

1.12 Mandatory Submission Forms

The following forms must be completed, signed and returned with the Bidder's submission package as **one pdf file:**

- Bid Schedule – Attachment A
- Bid Certification – Attachment B
- Bid Bond (or other Bid Guarantee as allowed in 00120.40(e)) – Attachment C
- Drug and Alcohol Testing Policy Certification – Attachment D

NOTE: All mandatory submission forms must be combined and submitted as one pdf file.

The following form must be completed, signed and returned within two (2) hours of the Bid Closing:

- First-Tier Subcontractor Disclosure Form – (Attachment E)

The Agency may consider any Bid that does not include the mandatory submission forms identified in this section, filled out completely and appropriately endorsed, to be non-responsive. The Agency reserves the right to waive minor informalities and irregularities in determining the responsiveness of individual Bids. Non-responsive Bids shall not be considered for award.

1.13 Bid Evaluation

The Agency will perform an analysis of the bids to determine if any significantly unbalanced items are to the detriment of the Agency per Section 00120.70 of the General Conditions. The Agency reserves the right to reject any such bid that is mathematically and materially unbalanced. A materially unbalanced bid is when the Agency determines that an award to the Bidder submitting a mathematically unbalanced bid likely will not result in the lowest ultimate cost to the Agency.

1.14 Time Limit of Unsettled Disputes

No action, suit or other legal proceedings shall be maintained by any party thereto against another party hereto upon any claim or cause of action arising out of the Contract or breach thereof or anything done in connection therewith unless commenced within one (1) year of the Final Acceptance of Work under this Contract. All claims or causes of action in any way resulting from this Contract shall be deemed barred unless action or suit thereon shall have been commenced within such time.

1.15 Contract Expiration Date

The Contract resulting from this solicitation will expire on July 31, 2026.

ADDENDUM #1
TO THE
INVITATION TO BID
PW1791-26 - ITB - CONSTRUCTION AND OTHER SITE IMPROVEMENTS AT UP TO SIX (6) NON-TOWER RADIO COMMUNICATIONS SITES
ISSUED ON 3/26/2026 2:00:00 PM

The following information in this addendum, hereby become part of the Invitation To Bid. It is essential that all prospective Offerors note the content of this Addendum.

A. Question and Answers:

EASTVIEW

1. **Where will power come from and will we use existing h-frame for service?**
   a. The existing power service will be maintained. Power will be supplied from the existing power panel located inside the shelter.

2. **Are both the ground ring with rods and the XIT rod needed ? and if so, are we to connect together? The cd's do not show.**
   a. Refer to Sheet E-1. Yes, the electrolytic (XIT) ground rod and all other underground grounding conductors and components identified to be provided by the Contractor are to be bonded together and connected to a common grounding system, as required by Motorola R56. All grounding is to be common.

3. **Can a steel plate be installed in the shelter in place of busting out the concrete and re-pouring it.**
   a. The Contractor may submit an alternative engineered design to Marion County for review and acceptance.

4. **Will all the purposed items be bid on? Some were not discussed on walk.**
   a. Bidders shall include all items of work annotated with "(P)" on the Plans, indicating they are to be provided by the Contractor in their lump sum bid for the project.

5. **Will battery racks be supplied or will we need to supply, if we supply please let us know what rack to purchase.**
   a. The callout on Sheet C-4 that reads, "(P) BATTERY RACK TYP OF (3)" is incorrect. Battery racks will be supplied and installed by others and are excluded from the Contract.

Bidders may exclude the cost of battery racks from their bids. County does not intend to issue amended plans at this time but will correct this callout if it becomes necessary to issue amended plans before the bid due date.

METCOM 911

1. **Want to confirm we can run conduit route out under the eave around building to new shelter location?**

    a. Yes, the Contractor may route the electrical conduit run under the eave around the building to the new shelter location. The City of Woodburn prefers that the horizontal run on the west side of the building be located as close to the top of wall as possible.

CROSBY

1. **Is the grounding around the tower getting installed ? was not discussed at walk?**

    a. Refer to Sheet E-1. The internal and external radio shelter grounding rings and the tower grounding ring denoted by a grey dashed line on the SITE COMPOUND GROUNDING PLAN are existing features that will remain. The electrolytic ground electrode and bonded grounding ring connections denoted by a black dashed line are to be provided and installed by Contractor.

MCPW

1. **Are we to demo the old mts and gen plug and install new Appleton gen plug on exterior near meter.**

    a. Refer to Sheet C-4. Contractor will be required to install a new automatic transfer switch supplied by County and to supply and install a new Appleton generator plug. The existing MTS may be removed or left in place.

2. **Do we use the old MTS as a splice box or demo?**

    a. Contractor may repurpose the MTS enclosure as a splice box at the Contractor's convenience.

3. **To confirm we are matching existing 6' fence height.**

    a. Correct, match the existing 6' fence height.

The project description references the installation of antennas with associated cabling; however, upon review of the construction drawings and plan details, it appears that the antenna and transmission line work may be designated to others or excluded from this contract.

1. **Is the contractor responsible for furnishing and installing antennas and all associated transmission line (coax/fiber) systems?**

a. No, the supply and installation of antennas and associated wiring will be provided by others and is excluded from this Contract.

2. **If not, please confirm that this scope will be provided and installed by others.**

   a. Confirmed, antennas and associated wiring will be supplied and installed by others and is excluded from this Contract.

3. **Are there any coordination, mounting, or pathway provisions that remain within this contract related to future antenna or line installation?**

   a. Contractor will be required to accommodate existing antenna wiring and wave guide pathways. Otherwise, no direct coordination is required between Contractor and Marion County's radio system vendor.

METCOM 911

1. **Can you confirm that the power in the electrical room is 3 phase and that the step down transformer shown on sheet U-1 is needed to get to single phase at the shelter?**

   a. You are correct. The power supply to the existing load center is 3-phase. The step down transformer and electrical circuit extension to be supplied and installed by Contractor is single-phase.

EXHIBIT A

BID SCHEDULE
Marion County Public Works
ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER SITE IMPROVEMENTS AT UP TO SIX (6) RADIO COMMUNICATIONS SITES FOR THE MARION COUNTY RADIO PROJECT
Marion County Bid Solicitation #: PW1791-26
OregonBuys Bid Solicitation #: S-C25102-00016204
ONEOFFICE #: 2026-402

ITEM #	DESCRIPTION	QTY	UNITS	AMOUNT
1	Project #1 - CROSBY	1.00	LS	$ 51,651.00
2	Project #2 - MARION COUNTY PUBLIC WORKS	1.00	LS	$ 48,647.00
3	Project #3 - EASTVIEW LANE	1.00	LS	$ 112,557.00
4	Project #4 - METCOMM 911	1.00	LS	$ 29,615.00
5	Project #5 - EAGLE CREST (RESERVED)	1.00	LS	$ 0.00
6	Project #6 - SANTIAM COMMS CENTER (RESERVED)	1.00	LS	$ 0.00
			TOTAL BID	$ 242,470.00

EXHIBIT B – BID CERTIFICATION

The Honorable Board of
County Commissioners
Marion County Courthouse
Salem, Oregon 97301

Commissioners:

The Undersigned, hereinafter called the Bidder, declares that the only person or parties interested in this Bid are those named herein; that this Bid Certification is in all respects fair and without fraud; that it is made without collusion with any official or employee of the County, and without any connection or collusion with any person making another certification on this Contract.

The Bidder also certifies to the following:

A. Noncollusion:

- The price(s) and amount of this Bid have been arrived at independently and without consultation, communication, or agreement with any other contractor, bidder, or potential bidder except as disclosed on a separately attached statement.
- Neither the price(s) nor the amount of this Bid, and neither the approximate price(s) nor approximate amount of this Bid has been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before the opening of bids.
- No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, to submit a bid higher than this Bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.
- This Bid is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.
- The Bidder, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act, prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract except as described on a separately attached statement.
- The Bidder understands and acknowledges that the above representations are material and important and will be relied on by Marion County, in awarding the contract(s) for which this Bid is submitted. The Bidder understands that any misstatement in this Certification is and shall be treated as fraudulent concealment from Marion County, of the true facts relating to the submission of bids for this contract.

B. Noninvolvement in Any Debarment and Suspension:

The Bidder, its owners, directors, and officers:

- Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- Have not within a three-year period preceding this Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining,

attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

- Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in the preceding paragraph of this Certification; and

- Have not within a three-year period preceding this Bid had one or more public transactions (Federal, State, or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this Certification, the prospective primary participant shall attach an explanation to this Bid.

List exceptions in writing on one or more pages, as necessary, with the heading, “Certification Exceptions, Bid Insert,” and attach all pages to this Bid Certification. For each exception noted, indicate to whom the exception applies, initiating agency, and date(s) of action.

C. Lobbying Activities:

To the best of my knowledge and belief, that:

- No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

- If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer of employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions to the ODOT Procurement Office - Construction Contracts Unit, MS# 2-2, 3930 Fairview Industrial Drive SE, Salem, Oregon 97302-1166. Copies of Standard Form-LLL are available at the above location.

- This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this Certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required Certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

- The prospective participant also agrees by submitting his or her Bid that he or she shall require that the language of this Certification be inserted in all lower tier subcontracts, which exceed $100,000 and that all such subrecipients shall certify and disclose accordingly.

D. Compliance With Oregon Tax Laws:

- By signature on this Bid, the undersigned hereby certifies under penalty of perjury that the undersigned is authorized to act on behalf of Bidder, that the undersigned has authority and knowledge regarding Bidder’s payment of taxes, and that Bidder is, to the best of the undersigned's knowledge, not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 320.005 to 320.150 (Amusement Device Taxes), ORS 403.200 to 403.250 (Tax For Emergency Communications), and ORS Chapters 118 (Inheritance Tax), 314 (Income Tax), 316 (Personal Income Tax), 317 (Corporation Excise Tax),

318 (Corporation Income Tax), 321 (Timber And Forestland Tax), 323 (Cigarettes And Tobacco Products Tax), and the elderly rental assistance program under ORS 310.630 to 310.706, and any local taxes administered by the Department of Revenue under ORS 305.620.

E. Employee Drug Testing Program:

- Pursuant to ORS 279C.505(2), that the bidder has an employee drug testing program in place, and will maintain such program for the entire period of this contract. Failure to maintain such program shall constitute a material breach of contract.

F. Nondiscrimination:

- Pursuant to ORS 279A.110, that the Bidder has not discriminated and will not discriminate against a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns, or an emerging small business in obtaining any required subcontracts. The Bidder understands that it may be disqualified from bidding on this public improvement project if the Agency finds that the Bidder has violated subsection (1) of ORS 279A.110.

G. Use of Registered Subcontractors:

- That all subcontractors performing work on this public improvement contract will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence work under this contract.

H. Incorporation of All Addenda:

- The Bidder has incorporated into this Bid all Addenda issued for this Project.
- The Bidder understands and acknowledges that the Agency will provide all Addenda only by publishing them on the OregonBuys website. Addenda may be downloaded from the OregonBuys website.
- The Bidder shall be responsible for diligently checking the OregonBuys website for Addenda. Bidders should check the web site at least weekly until one (1) week prior to the designated time to receive bids and daily thereafter.
- By submitting this Bid, the Bidder assumes all risks associated with its failure to access all Addenda and waives all claims, suits, and actions against the State, Agency, the Agency's governing commission and its members, and their officers, agents, and employees that may arise out of the Bidder's failure to access all Addenda, in spite of any contingencies such as website failure, down-time, service interruptions, and corrupted, inaccurate, or incomplete Addenda or information.

The Bidder declares that the Bidder has carefully examined the Specifications and other proposed Contract Documents; that the Bidder personally has made an examination of the site of the proposed Work and has made the necessary investigations to determine the conditions to be encountered independently of the indications in the Specifications. The applicable Standard Specifications, General Conditions, Special Provisions, and other Contract Documents bound herewith are by reference a part of this Bid Certification.

The Bidder agrees to accept as full payment for the Work herein proposed or the materials to be furnished the amount computed as determined by the provisions of this Invitation To Bid and based on the following Bid Certification, it being expressly understood that the unit prices listed are independent of the exact quantities involved, where unit prices apply.

The Bidder further declares the total amount of work, expressed in dollars, Bidder's company reasonably believes it is capable of bonding at any one time: $ 10,000,000 . The Bidder declares the portion of this amount which remains available at time of completion of this form is $ 8,000,000 ___.

The Bidder further agrees that the provisions required by ORS 279C.840 shall be included in the Contract.

Acknowledgement of receipt of addenda:

No. 1 **Date:** 3/26/2026
No. ____ **Date:** _____
No. ____ **Date:** _____
No. ____ **Date:** _____
No. ____ **Date:** _____

[The remainder of this page intentionally left blank.]

Experience / References

The information on this form may be utilized by Marion County to consider whether a Bidder has met the standards of responsibility set forth in ORS279C.375.

Current Contracts in Force/Previous Experience – minimum of three required of similar nature with public sector work.

Contract #1

Location (city/state)	
Owners Name	
Type of Work	SEE ATTACHED EXPERIENCE
% Completed	
Estimated Completion Date	

Contract #2

Location (city/state)	
Owners Name	
Type of Work	
% Completed	
Estimated Completion Date	

Contract #3

Location (city/state)	
Owners Name	
Type of Work	
% Completed	
Estimated Completion Date	

References – minimum of two project owner references and two subcontractor references.

#1 Project Owner Reference

Reference Name	
Business or Employer	
Telephone	
Project Name/$ Amount	

#2 Project Owner Reference

Reference Name	
Business or Employer	
Telephone	
Project Name/$ Amount	

#1 Subcontractor Reference

Reference Name	
Business or Employer	
Telephone	
Project Name/$ Amount	

#2 Subcontractor Reference

Reference Name	
Business or Employer	
Telephone	
Project Name/$ Amount	

Key Customer References

Nathan Dunn
Sr Project Manager, Development
T-Mobile
nathan.dunn9@t-mobile.com
360.702.9080
830 NE Holladay St Portland, OR 97232

Ron Polluconi
Washington County Consolidated Communications Agency
rpolluconi@wccca.com
(503) 629-0111
17911 NE Evergreen Pkwy, Beaverton, OR 97006

Adrian Englet
Puget Sound Emergency Radio Network
Adrian.Englet@kingcounty.gov
(206) 477-1041

Trent Huffines
Construction Manager – West
American Tower Corporation
trent.huffines@americantower.com
336-213-2754

John Hartsock
Clackamas 800 Radio Group
john.hartsock@c800.org
503-780-4806
11300 Se Fuller Rd Milwaukie, OR 97222

Bryce Foster
Testing and Engineering
testingandengineering@gmail.com
503-358-2125

Marty Graham
Verizon
Principal – Implementation
Pacific Northwest Engineering
martin.graham@verizonwireless.com
425-457-3433

Gabriel Rendon
Oregon Department of Transportation
Wireless Communications Section
gabriel.rendon@odot.oregon.gov
971-283-5725

Similar Past Projects

US Cellular CRAN Builds
Project Location: Approximately 150 Sites through out (Yakima, Pasco, Union Gap, Sunnyside) WA and (Grants Pass, Medford, Hermiston, Redmond and Roseburg) OR
Project Description: The installation of approximately 150 30'-45' steel poles both direct buried and on foundations. Scope of work also included the installation of underground bores for a new electrical service, traffic control and installation of pole mounted equipment. All work was self performed with the exception of underground boring and hydro-excavation
Project Completion: 2023-2025









Similar Past Projects

Washington County Consolidated Communications Agency 7 Sites Upgraded 2019-2023

Project Name: Washington County Consolidated Communications Agency (WCCCA) site upgrades at Buxton, Top Hill, Round Top, Pumpkin Ridge, Bald Peak, South Saddle Mtn and Newberg sites
Project Location: Multiple projects throughout Washington County
Project Description: Upgrade constructions services consisting of site preparation, access road improvements, grading or regrading the property, security gates, replacement and provisioning of HVAC equipment, primary power upgrades, fencing, shelter upgrades, shelter replacements, shelter foundations, placement/installation/provisioning of new towers, generator and fuel tank replacement with associated concrete slabs, installation of automatic transfer switches, service cut-overs.
Project Completion Date: Varies by site, between 2019 and 2023
Firm Name For Contact Person: Washington County Consolidated Communications Agency (WCCCA)
Contact Person: Ron Polluconi
Contact Phone Number: 503-502-8506
Contact E-mail Address: rpolluconi@wccca.com
Contract Value: Varied by site from $352,725 to $566,488









Puget Sound Emergency Radio Network Site Modifications and New Builds 2018-2022

Project Location: Numerous sites in King County, including Capitol Hill, Clearview, Indian Hill, King Lake, East Tiger Mtn., Olallie, Rattlesnake, Tinkham, West Tiger Mtn., Bellevue Station, Cambridge, Cougar Mtn., McDonald, Skyway, West Seattle, Bandera, Grass Mtn., Snoqualmie Pass, Wellington
Project Description: The projects involved preparing sites for emergency communications. Some projects were complete construction of roads, towers, shelters. Others were simple site modifications.
Project Completion Date:
Firm Name For Contact Person: PSERN - King County Washington
Contact Person: Adrian Englet
Contact Phone Number: (206) 477-1041
Contact E-mail Address: Adrian.Englet@kingcounty.gov
Contract Value: Varied from to $2,947 to $2,804,267









Oregon Department of Transportation Wolf Mountain New Site Build 2024-2025

Project Name: Wolf Mountain
Project Location: Wolf Mountain OR (Approximately 1 hour from Oakridge OR)
Project Description: Installation of a new site for the ODOT wireless division including a precast generator and equipment shelter, 120’ self support tower including the lines and antennas.
Project Completion Date: 2025
Firm Name For Contact Person: ODOT Wireless
Contact Person: Gabriel Rendon
Contact Phone Number: 971-283-5725
Contact Email: gabriel.rendon@odot.oregon.gov
Contract Value: $889,010.00







City of Richland 9-1-1 Red Mountain Radio Site

Project Location: Benton City, Washington
Project Description: Installation of a new raw-land site, prefabricated equipment shelter, 180' self support tower w/ associated mounts, and 30kW generator. The project also included detailed design, permitting, procurement, and installation for a new supporting DC power system at the Red Mountain site, and for a new microwave (MW) radio path.
Project Completion Date: 2024
Firm Name For Contact Person: Benton County Emergency Services
Contact Person: Jay Atwood
Contact Phone Number: 509-537-7755
Contact Email: j.atwood@bces.wa.gov
Contract Value: $938,545.50



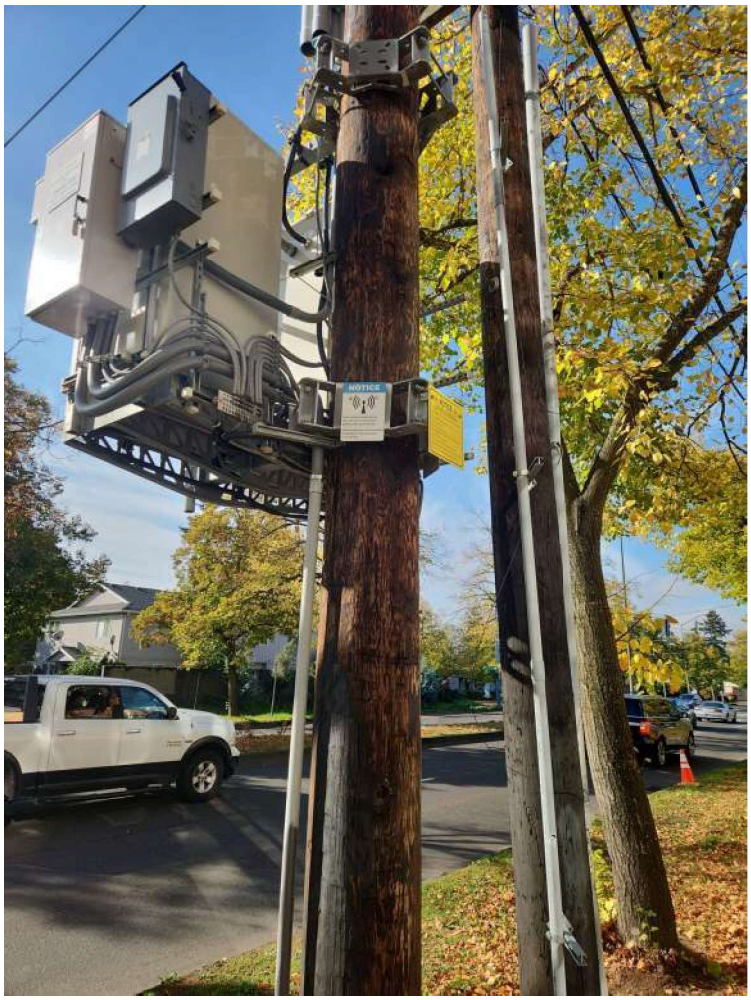






Kellogg T-Mobile New Site Intall on PGE Wood Pole

Project Location: Portland, Oregon
Project Description: Installation of a new T-Mobile site on an existing PGE owned wood pole.
Project Completion Date: 2024
Firm Name For Contact Person: T-Mobile
Contact Person: Nathan Dunn
Contact Phone Number: 360-702-9080
Contact Email: nathan.dunn9@t-mobile.com
Contract Value: $177,777.00

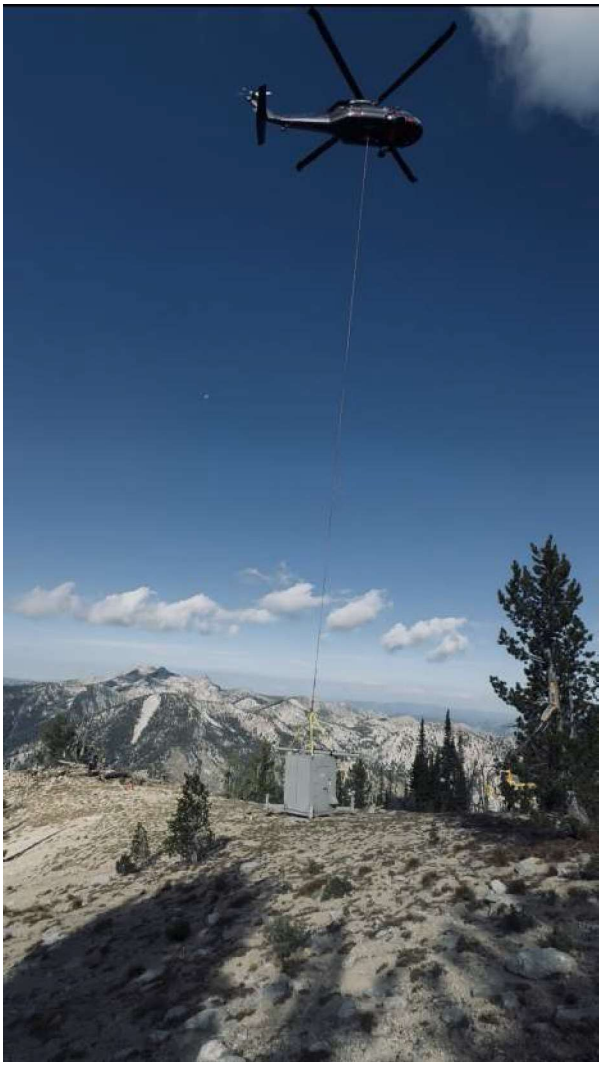




Bald Mountain to Black Pines PEPRO Shelter Relocation

Project Location: Boise ID and Burley ID
Project Description: Relocation of an 8'x8' PEPRO Shelter from a site called Bald Mountain to a site called Black Pines. Both sites were accessible by helicopter only.
Project Completion Date: 2025
Firm Name For Contact Person: PEPRO (Pioneer Energy Products)
Contact Person: Kevin Garmong
Contact Phone Number: 814-671-6287
Contact Email: kgarmong@peprollc.com
Contract Value: $98,125.00







Active Equipment List

New Number	Photo	Equipment Description
1-06-001		2015 Toyota Tacoma
1-06-002		2022 Toyota Tacoma TRD Off Road
1-07-001		2022 Ford Ranger
1-07-002		2021 Ford Ranger
1-08-002		2021 Ford F150
1-08-003		2022 Ford F150
1-08-004		2024 Ford F150 Lariat
1-08-005		2025 Ford F-150 Lariat/Hybrid
1-08-006		2025 Ford F-150 Lariat
1-10-001		2022 F-350 Service Body

New Number	Photo	Equipment Description
1-12-002		2016 Ford F350
1-12-004		2019 Ford F350
1-13-001		2022 Ford F-350
1-13-002		2023 Ford F-350
1-13-003		2024 Ford F-350
1-14-001		2023 F350 DRW 4x4 Crew Cab XL
1-14-002		2025 F350 DRW 4x4 Crew Cab XL
1-16-002		2013 Ford F450 Flatbed
1-16-004		2021 Ford SD F450
1-16-005		2021 Ford SD F450

New Number	Photo	Equipment Description
1-16-007		2022 F450 Flatbed
1-17-001		2026 Ford SD F-450 Crew Cab 4x4
1-18-001		2019 Ford F550
1-18-002		2024 Ford Super Duty F-550 DRW
1-20-001		2016 Ford 550
1-20-004		2019 Ford F550
1-20-005		2022 F-550
1-20-006		2023 F-550
1-20-007		2025 F-550 4x4
1-20-008		2025 F-550 4x4
1-33-001		2012 Freightliner M2 4x2 Altec AA55E-MH 60' Bucket Truck

New Number	Photo	Equipment Description
1-33-002		2015 Freightliner M2 Altec 4x2 AA755-MH 60' Bucket Truck
2-06-001		Kiefer Built Reel Trailer
2-07-002		2019 MultiQuip Water Trailer
2-07-003		Fire Wagon/ Trailer
2-07-004		2022 Cargo King Defender 7'x14'
2-07-005		2022 Cargo King Defender 7'x14'
2-07-006		2022 Patriot 7'x14' Cargo Trailer
2-07-007		MultiQuip Water Trailer
2-10-001		2012 Big Tex Flatbed
2-10-003		2023 Great Northern Flatbed

New Number	Photo	Equipment Description
2-10-004		2025 Cargo Trailer
2-10-005		
2-14-002		2013 Maxey Trailer
2-14-003		2020 PJ 14' Dump Trailer
2-14-004		2020 Iron Bull Dump Trailer
2-14-005		2020 Summit Trailer
2-14-006		(ALAN'S) 2022 MAX-XD Car Trailer (ALAN"S)
2-15-001		2022 MAXX-D Dump Trailer
2-19-001		2006 TowMaster
2-20-001		2017 Felling FT16 Trailer (John Deer Excavator)
2-20-002		2023 Behnke Equipment Trailer

New Number	Photo	Equipment Description
2-21-001		2011 Towmaster Trailer T-160T
2-23-002		2021 MAXXD 22.5 GN Gooseneck
3-08-001		2014 Bobcat E32I
3-11-003		2015 John Deer 50G Excavator
3-11-004		JCB 48Z Mini Excavator
4-05-001		Toyota Forklift
4-08-001		Hyster H90XMS
4-12-001		Altec DM47B-TR 23,790 lb Digger Derrick
4-28-001		2006 Peterbuilt (crane)

New Number	Photo	Equipment Description
7-01-001		2017 36KW Generator
7-01-002		Multi-Quip Welder Trailer
7-01-003		Mikasa Diesel Plate Compactor
7-01-004		Can Am Side-By-Side
7-01-005		2024 Can-AM 1000 Four Wheeler
7-01-006		Can-AM 900 Ace Expedition Utility Snowmobile
7-01-007		2026 Danuser Megamixer Concrete Mixer Attachment

The name of the Bidder who is submitting this Bid Certification is:

Company: Summit Solutions Group, LLC
(Print or Type)

Address: 6000 NE 88th St. Suite C101
(Print or Type)

City, State Zip Vancouver, WA 98665
(Print or Type)

which address is the address to which all communications considered with this Bid Certification and with the Contract shall be sent.

The names of the principal officers of the corporation submitting this Bid and Bid Certification or of the partners, if the Bid Certification is submitted by a partnership, or of all persons interested in this Bid Certification as principals, are as follows:

MIKE MOORE, PRESIDENT

Dated this 2 day of APRIL, 2026

Construction Contractor's
Board Registration Number

160656

Summit Solutions Group, LLC
Firm Name

Signature of Bidder

Mike Moore
Name Print or Type

President
Title Print or Type

Telephone No. 360-360-1120

Email Address: mikem@summitsgllc.com

Tax ID # 93-1314004

Business Organization: (Check one)

☐ Corporation ☒ Limited Liability Company ☐ Joint Venture

☐ Partnership ☐ Sole Proprietorship ☐ Other _____

Docusign Envelope ID: 68C0291C-CAD2-4952-9C0A-FE49F0C6DD4A

BID BOND

KNOW ALL PERSONS BY THESE PRESENTS, that Summit Solutions Group, LLC, hereinafter called the Principal, and Travelers Casualty and Surety Company of America, a Corporation organized and existing under and by virtue of the laws of the state Seattle, WA duly authorized to do surety business in the State of Oregon as Surety, are held and firmly bound unto Marion County hereinafter called the County, in the sum of Ten Percent of Amount of Bid Dollars ($ 10%), for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the Principal herein is herewith submitting his or its Bid Proposal for Marion County Radio Project #PW1791-26 said Bid Proposal, by reference thereto, being hereby made a part hereof.

NOW THEREFORE, if the said Bid Proposal submitted by the said Principal be accepted, and the Contract be awarded to said Principal, and if the said Principal shall execute the proposed Contract as required by the bidding and the Contract Documents within the time set by said Documents, then this obligation shall be void. If the Principal shall fail to execute the proposed Contract, the Surety hereby agrees to pay to the County the sum as liquidated damages.

Signed and sealed this 31st day of March, 2026.

Summit Solutions Group, LLC
Principal

By: Mike Moore, President
DocuSigned by:
C114A78286024ED...

A certified copy of the Agent's Power-of-Attorney must be Attached hereto.

Travelers Casualty and Surety Company of America
Surety

By: Julie Douglas
DocuSigned by:
A519028F09864FF...
Attorney-in-Fact

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
HARTFORD, CONN.

Docusign Envelope ID: 68C0291C-CAD2-4952-9C0A-FE49F0C6DD4A

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Julie Douglas** of **LAKE OSWEGO**, **Oregon**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, **2021**.

HARTFORD, CONN. — TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONN. — TRAVELERS CASUALTY AND SURETY COMPANY

CORPORATE SEAL — ST. PAUL FIRE AND MARINE INSURANCE COMPANY

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, **2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2026**

ANNA P NOWIK — NOTARY PUBLIC — CONNECTICUT

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **31st** day of **March**, **2026**.

HARTFORD, CONN. — TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

HARTFORD, CONN. — TRAVELERS CASUALTY AND SURETY COMPANY

CORPORATE SEAL — ST. PAUL FIRE AND MARINE INSURANCE COMPANY

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

EXHIBIT C

Bond No. 108339620

PERFORMANCE BOND

(NOTE: CONTRACTORS MUST USE THIS FORM, NOT A SURETY COMPANY FORM)

KNOW BY ALL PERSONS BY THESE PRESENTS:

We the undersigned Summit Solutions Group, LLC as PRINCIPAL (hereinafter called CONTRACTOR), and Travelers Casualty and Surety Company of America a corporation organized and existing under and by virtue of the laws of the state of CT duly authorized to do surety business in the state of Oregon and named on the current list of approved surety companies acceptable on federal bonds and conforming with the underwriting limitations as published in the Federal Register by the audit staff of the Bureau of Accounts and the U.S. Treasury Department and is of the appropriate class for the bond amount as determined by Best's Rating System, as SURETY, hereby hold and firmly bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, to pay to MARION COUNTY as OBLIGEE (hereinafter called MARION COUNTY), the amount of Two hundred forty two thousand and four hundred seventy dollars & no cents Dollars ($242,470.00) in lawful money of the United States of America.

WHEREAS, the CONTRACTOR entered into a contract with MARION COUNTY dated April 20, 2026, which Contract is hereunto annexed and made a part hereof, for accomplishment of the project described as follows: ITB-Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites

NOW, THEREFORE, the condition of this obligation is such that if the CONTRACTOR shall promptly, truly and faithfully perform all the undertakings, covenants, terms, conditions, and agreements of the aforesaid contract and having performed its obligations thereunder, then this obligation shall be null and void; otherwise it shall remain in full force and effect until the expiration of any statutes of limitation or ultimate repose applicable to claims against Principal arising out of said Contract or for as long as CONTRACTOR is liable under the Contract, whichever is later.

Whenever CONTRACTOR shall be declared by MARION COUNTY to be in default under the Contract Documents for the project described herein, the SURETY may promptly remedy the default, or shall promptly complete the project in accordance with the Contract Documents and the project Specifications with a contractor approved by MARION COUNTY. SURETY, for value received, further stipulates and agrees that all changes, extensions of time, alterations, or additions to the terms of the Contract or Specifications for ITB-Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites are within the scope of the SURETY's undertaking on this bond, and SURETY hereby waives notice of any such change, extension of time, alteration or addition to the terms of the ITB-Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites or to the Work or to the Specifications. Any such change, extension of time, alteration or addition to the terms of the ITB-Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites or to the Work or to the Specifications shall automatically increase the obligation of the Surety hereunder in a like amount, provided that such increase shall not exceed twenty-five percent (25%) of the original amount of the obligation without the consent of the Surety.

This obligation shall continue to bind the PRINCIPAL and SURETY, notwithstanding successive payments made hereunder, until the full amount of the obligation is exhausted.

No right of action shall accrue on this bond to or for the use of any person or corporation other than MARION COUNTY, its respective heirs, executors, administrators, successors or assigns.

If more than one SURETY is on this bond, each SURETY hereby agrees that it is jointly and severally liable for obligations on this bond.

EXHIBIT C

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 20th day of April, 20 26.

Travelers Casualty and Surety Company of America	Summit Solutions Group, LLC
SURETY	CONTRACTOR
By: Greg Horner	By: Mike Moore
Title: Attorney-In-Fact	Title: President
One Tower Square	6000 NE 88th St. Bldg C, Ste 101
Street Address	Street Address
Hartford, CT 06183	Vancouver, WA 98665
City State ZIP	City State ZIP
(800) 873-1477	(360) 360-0330
Phone Number	Phone Number

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
HARTFORD, CONN.

EXHIBIT C

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **GREG L HORNER** of **LAKE OSWEGO**, **Oregon**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **20th** day of **April**, **2026**.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

EXHIBIT D

Bond No. 108339620

LABOR AND MATERIALS PAYMENT BOND

(NOTE: CONTRACTOR MUST USE THIS FORM, NOT A SURETY COMPANY FORM)

KNOW ALL PERSONS BY THESE PRESENTS:

We the Undersigned Summit Solutions Group, LLC as PRINCIPAL and Travelers Casualty and Surety Company of America a corporation organized and existing under and by virtue of the laws of the state of CT and duly authorized to do surety business in the state of Oregon and named on the current list of approved surety companies acceptable on federal bonds and conforming with the underwriting limitations as published in the Federal Register by the audit staff of the Bureau of Accounts and the U.S. Treasury Department and which carries an "A" rating and is of the appropriate class for the bond amount as determined by Best's Rating System, as SURETY, hereby hold and firmly bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, unto MARION COUNTY and ODOT, as duel OBLIGEE, in the sum of Two hundred forty two thousand and four hundred seventy dollars & no cents Dollars ($ 242,470.00) in lawful money of the United States of America, for the payment of that sum for the use and benefit of claimants as defined below.

The condition of this obligation is such that whereas the PRINCIPAL entered into a contract with MARION COUNTY dated April 20th, 20 26, which contract is hereunto annexed and made a part hereof, for accomplishment of the project described as follows: ITB-Construction and Other Site Improvements at up to Six (6) Non-Tower Radio Communications Sites.

NOW THEREFORE, if the PRINCIPAL shall promptly make payments to all persons, firms, subcontractors, corporations and/or others furnishing materials for or performing labor in the prosecution of the Work provided for in the aforesaid ITB-Construction and Other Site Improvements at Up to Six (6) Non-Tower Radio Communications Sites, and any authorized extension or modification thereof, including all amounts due for materials, equipment, mechanical repairs, transportation, tools and services consumed or used in connection with the performance of such Work, and for all labor performed in connection with such Work whether by subcontractor or otherwise, and all other requirements imposed by law, then this obligation shall become null and void; otherwise this obligation shall remain in full force and effect, until the expiration of any statutes of limitation or ultimate repose applicable to claims against Principal arising out of said Contract or for as long as CONTRACTOR is liable under the Contract, whichever is later, subject, however, to the following conditions:

1. A claimant is as specified in ORS 279C.600 to 279C.620.

2. The above-named PRINCIPAL and SURETY hereby jointly and severally agree with the OBLIGEE and its assigns that every claimant as above-specified, who has not been paid in full, may sue on this bond for the use of such claimant, prosecute the suit to final judgment in accordance with ORS 279C.610 for such sum or sums as may be justly due claimant, and have execution thereon. The OBLIGEE shall not be liable for the payment of any judgment, costs, expenses or attorneys' fees of any such suit.

PROVIDED, FURTHER, that SURETY for the value received, hereby stipulates and agrees that all changes, extensions of time, alterations to the terms of the ITB-Construction and Other Site Improvements at up to Six (6) Non-Tower Radio Communications Sites or to Work to be performed thereunder or the Specifications accompanying the same shall be within the scope of the SURETY's undertaking on this bond, and SURETY does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the ITB-Construction and Other Site Improvements at up to Six (6) Non-Tower Radio Communications Sites or to the Work or to the Specifications. Any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Specifications shall automatically increase the obligation of the SURETY hereunder in a like amount, provided that the total of such increases shall not exceed twenty-five percent (25%) of the original amount of the obligation without the consent of the SURETY.

This obligation shall continue to bind the PRINCIPAL and SURETY, notwithstanding successive payments made hereunder, until the full amount of the obligation is exhausted, or if the full amount of the

obligation is not exhausted and no claim is pending resolution, until such time as no further claims can be made pursuant to law with regard to the above-described project, by any claimant specified in ORS 279C.600.

If more than one SURETY is on this bond, each SURETY hereby agrees that it is jointly and severally liable for all obligations of this bond.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 20th day of April, 2026.

Travelers Casualty and Surety Company of America	Summit Solutions Group, LLC
SURETY	CONTRACTOR
By: Greg L. Horner	By:
Greg Horner	Mike Moore
Title: Atorney-In-Fact	Title: President
One Tower Square	6000 NE 88th St, Bldg C, Ste 101
Street Address	Street Address
Hartford, CT 06183	Vancouver, WA 98665
City, State Zip	
(800) 873-1477	(360) 360-0330
Phone Number	Phone Number

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
HARTFORD, CONN.

EXHIBIT D

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **GREG L HORNER** of **LAKE OSWEGO**, **Oregon**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021,** before me personally appeared **Robert L. Raney,** who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **20th** day of **April**, **2026**.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

EXHIBIT E – DRUG & ALCOHOL TESTING POLICY CERTIFICATION

Has your firm established and implemented a drug and alcohol policy and testing program that complies with ORS 279C.505 for public improvement contracts?

____X____ Yes _____ No

I hereby certify that the information provided on this form is true and accurate to the best of my knowledge.

Please print or type:

Company Name Summit Solutions Group, LLC

Name/Title Mike Moore, President

Address 6000 NE 88th St. Suite C101 Vancouver, WA 98665

Signature 

Date 4/1/2026

EXHIBIT F

ATTACHMENT F – FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM INSTRUCTIONS

Instructions for Submitting Form

Submittal of the First-Tier Subcontractor Disclosure Form is mandatory for all public improvement project bids estimated to exceed $100,000. Submit the First-Tier Subcontractor Disclosure Form in one of the following manners:

- By filling out the Subcontractor Disclosure Form included in the Invitation To Bid and submitting it, in PDF format, together with the Bid documents to the Agency's Procurement Collaboration Portal at the time designated for receipt of Bids; or
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink, and submitting it separately, in PDF format, to the "My Company Info" page within the Agency's Procurement Collaboration Portal; or
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink and submitting it separately in a sealed envelope to the receptionist at Marion County Public Works, Building 1, 5155 Silverton Road NE, Salem Oregon 97305. The envelope shall be plainly labeled "First-Tier Subcontractors for Bid on "Construction and Other Site Improvements at Up to Six (6) Radio Communications Sites".

Instructions for First-Tier Subcontractor Disclosure

Use the First-Tier Subcontractor Disclosure Form to disclose all subcontracts included in the Bid that are equal to or greater than the following:

1. Five percent (5%) of the total project Bid or $15,000, whichever is greater, or
2. $350,000 regardless of the percentage of the total project Bid

Disclose the following information for each subcontractor:

- The name of the subcontractor
- The category of work that the subcontractor will be performing
- The dollar amount of the subcontract

If your Bid includes no subcontractors or if your Bid includes no contracts that are equal to or greater than the disclosure criteria, above, you are still required to submit the form, with the appropriate box checked or enter "NONE" on the first line.

THE AGENCY MUST REJECT BIDS if the Bidder fails to submit the disclosure form with this information by the stated deadline.

EXHIBIT F

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM

Project Name PW1791-26

ONEOFFICE Contract # _____

Bid Opening Date 4/2/2026

Name of Bidding Contractor Summit Solutions Group LLC

☐ *CHECK THIS BOX IF YOU WILL NOT BE USING ANY FIRST-TIER SUBCONTRACTORS OR IF YOU ARE NOT SUBJECT TO THE DISCLOSURE REQUIREMENTS (SEE INSTRUCTIONS).*

FIRST-TIER SUBCONTRACTORS

Firm Name	Dollar Amount
Northwest Heating & Cooling	$17,620.00
Category of Work	
HVAC Installation	

Firm Name	Dollar Amount
Lakewood Contractors	$3,500
Category of Work	
Gas Line Installation	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

(Attach additional sheets as necessary)

EXHIBIT G - PROJECT WAGE RATES

Minimum Wage Requirements - This Project is subject to State prevailing wage rate requirements. Not less than the existing State prevailing wage rates shall be paid to workers according to 00170.65(b) and 00170.65(e).

Applicable Wages - Prevailing wage rates published in the wage determinations and any applicable modifications or amendments apply to this Project and are incorporated by reference:

(1) Oregon Bureau of Labor and Industries (BOLI), "Prevailing Wage Rates For Public Works Contracts in Oregon".

The applicable State prevailing wage rates last published prior to the time of Bid Opening, which is stated on the Invitation to Bid, apply to this Project.

Wage Rates are Internet-Accessible - The BOLI wage rates can be found on the Oregon Bureau of Labor and Industries website at: https://www.oregon.gov/boli/WHD/PWR/Pages/index.aspx.

Wage Rates are Subject to Change - Modifications or amendments to BOLI wage rates applicable to this Project may occur at any time before Bid Opening. Bidders are responsible to monitor the respective web page for modifications and amendments up until Bid Opening.

EXHIBIT H - APPENDIX II TO PART 200 – CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS

Section 1: Appendix II to Part 200 - Contract Provisions for Non-Federal Entity Contracts Under Federal Awards

(A) Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of $10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be affected and the basis for settlement.

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

(D) Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of $2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

(E) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of $100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is

compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended. Contracts and subgrants of amounts in excess of $150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Orders 12549 and 12689). A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352). Contractors that apply or bid for an award exceeding $100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

(J) See § 200.323. Procurement of recovered materials.

(K) See § 200.216. Prohibition on certain telecommunications and video surveillance services or equipment.

(L) See § 200.322. Domestic preference for procurements.

[78 FR 78608, Dec. 26, 2013, as amended at 79 FR 75888, Dec. 19, 2014; 85 FR 49577, Aug. 13, 2020]

Section 2: Additional Requirements for Non-Federal Entity Contracts

1. Audit Requirements

- Subrecipients must comply with the federal regulations set forth in 2 CFR §200.5XX Subpart F.

- Subrecipient must comply, and require any subcontractor to comply, with applicable audit requirements and responsibilities set forth in this Agreement and applicable state or federal law as set forth in 2 CFR §200.501(h).

- If Subrecipient expends federal awards in excess of $1,000,000 in a fiscal year, Subrecipient is subject to audit conducted in accordance with the provisions of 2 CFR §200.5XX Subpart F. Copies of all audits must be submitted to the County within 30 days of completion.

- Subrecipient must save, protect and hold harmless the County from the cost of any audits or special investigations performed by the Secretary of State with respect to the funds expended under this Agreement. Subrecipient acknowledges and agrees that any audit costs incurred by Subrecipient as a result of allegations of fraud, waste or abuse are ineligible for reimbursement under this or any other agreement between Subrecipient and the County.

2. System for Award Management - 2 CFR Part 25 - Subrecipient must comply with applicable requirements regarding the System for Award Management (SAM), currently accessible at https://www.sam.gov. This includes applicable requirements regarding registration with SAM, as well as maintaining current information in SAM. Subrecipient must also comply with applicable restrictions on subawards ("subgrants") to first tier subcontractors (first-tier "Subcontractors"), including restrictions on subawards to entities that do not acquire and provide (to the County) the unique entity identifier required for SAM registration.

3. Whistleblower Protection Act - 2 CFR § 200.217 - Subrecipient must comply and ensure the compliance by subcontractors, with 41 U.S.C. 4712, Program for Enhancement of Employee Whistleblower Protection. Subrecipient must inform subcontractors, contractors and employees, in writing, in the predominant language of the workforce, of the employee whistleblower rights and protections under 41 USC 4712.

4. Recordkeeping Requirements - Subrecipient must maintain records and financial documents for five years after all funds have been expended or returned to the County. The County may request transfer of records of long-term value at the end of such period. Wherever practicable, such records should be collected, transmitted, and stored in open and machine-readable formats.

Subrecipient must agree to provide or make available such records to the County upon request, and to the Government Accountability Office (“GAO”), U.S. Treasury’s Office of Inspector General (“OIG”), and their authorized representative in order to conduct audits or other investigations.

6. Civil Rights Compliance - Recipients of Federal financial assistance from the U.S. Treasury are required to meet legal requirements relating to nondiscrimination and nondiscriminatory use of Federal funds. Those requirements include ensuring that entities receiving Federal financial assistance from the U.S. Treasury do not deny benefits or services, or otherwise discriminate on the basis of race, color, national origin (including limited English proficiency), disability, age, or sex (including sexual orientation and gender identity), in accordance with the following authorities: Title VI of the Civil Rights Act of 1964 (Title VI) Public Law 88-352, 42 U.S.C. 2000d-1 et seq., and the Subrecipient's implementing regulations, 31 CFR part 22;

Section 504 of the Rehabilitation Act of 1973 (Section 504), Public Law 93-112, as amended by Public Law 93-516, 29 U.S.C. 794; Title IX of the Education Amendments of 1972 (Title IX), 20 U.S.C. 1681 et seq., and the Subrecipient's implementing regulations, 31 CFR part 28; Age Discrimination Act of 1975, Public Law 94-135, 42 U.S.C. 6101 et seq., and the Subrecipient implementing regulations at 31 CFR part 23.

In order to carry out its enforcement responsibilities under Title VI of the Civil Rights Act, U.S. Treasury will collect and review information from non-Tribal recipients to ascertain their compliance with the applicable requirements before and after providing financial assistance. U.S. Treasury's implementing regulations, 31 CFR part 22, and the Department of Justice (DOJ) regulations, Coordination of Non-discrimination in Federally Assisted Programs, 28 CFR part 42, provide for the collection of data and information from recipients (see 28 CFR 42.406). U.S. Treasury may request that recipients submit data for post-award compliance reviews, including information such as a narrative describing their Title VI compliance status. This collection does not apply to Tribal governments.

7. Real Property, Equipment and Other Capital Expenditures - County shall, and shall cause its Subrecipients to, maintain policies and procedures for the management of property and equipment that comply with all requirements of the applicable Uniform Guidance at 2 CFR Part 200, Subpart D, 2 CFR Part 200.310 – 200.316 and 200.439, and specific requirements of the source of funds. These regulations shall apply to all real property, equipment, and other capital expenditures purchased with the federal funding.

EXHIBIT I - SPECIAL PROVISIONS

PART 00100 - GENERAL CONDITIONS

SECTION 00110 - ORGANIZATION, CONVENTIONS, ABBREVIATIONS, AND DEFINITIONS

Comply with Section 00110 of the General Conditions modified as follows:

00110.00 Organization of Specifications – Replace this subsection in its entirety with the following:

The Specifications are comprised of the following:

- The "General Conditions for Construction for Marion County, v2024" published by the Agency and available for download from the Marion County Public Works Engineering Division website at http://www.co.marion.or.us/PW/Engineering, which contain Part 00100 "General Conditions" and deals with the solicitation process and contractual relationships;

- The "2024 Oregon Standard Specifications for Construction" Parts 00200 through 03000, published by the Oregon Department of Transportation, which contain the detailed "Technical Specifications" involved in prosecution of the Work, organized by subject matter;

- The Special Provisions, and

- The Project Summary List (PSL)

In addition, throughout the Specifications:

- Each Part is divided into Sections and Subsections.

- Reference to a Section includes all applicable requirements of the Section.

- When referring to a Subsection, only the number of the Subsection is used; the word "Subsection" is implied.

- Where Section and Subsection numbers are not consecutive, the interval has been reserved for use in the Special Provisions or future expansion of the Standard Specifications.

SECTION 00120 – BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the General Conditions modified as follows:

00120.00 Prequalification of Bidders – Delete this subsection in its entirety.

00120.01 General Bidding Requirements – Delete the sentence that reads, “For Federal-aid Projects, the identification of the Bidding firm, partnership or joint venture must match the Bidder identification listed in ODOT’s current list of prequalified Bidders.”

SECTION 00130 – AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the General Conditions.

SECTION 00140 - SCOPE OF WORK

Comply with Section 00140 of the General Conditions.

SECTION 00150 - CONTROL OF WORK

Comply with Section 00150 of the General Conditions modified as follows:

00150.50(c) Contractor Responsibilities – Replace the bullet that begins "Determine the exact location before excavating within …" with the following bullet:

- Determine the exact location before excavating within the tolerance zone according to OAR 952-001-0090(3)(c).

Add the following to the end of the bullet list:

- When power lines overhang the work area, maintain the minimum vertical clearance between power lines and equipment according to the Occupational Safety and Health Administration's "Table A – Minimum Clearance Distances".

Add the following subsection:

00150.50(f) Utility Information - Contractor is responsible to follow rules adopted by the Oregon Utility Notification Center, as set forth in OAR 952-001-0010 through OAR 952-001-0090.

00150.90 Final Inspection – Replace this subsection with the following:

(a) General – Each Project Site shall be considered accepted only when the requirements of this subsection are satisfied and documented by the Contractor. The Contractor shall coordinate final inspections and testing with the Engineer. Costs for any required final testing and inspection services shall be borne by the Contractor and included in the bid price unless otherwise specified.

(b) Compliance Reporting ("Handover Package") – Before scheduling final acceptance testing and inspections with the Engineer, the Contractor shall compile and submit a Handover Package for each Project Site consisting of the following documents:

(1) Electrical

- Visual inspection report demonstrating (1) continuity and soundness of all grounding system components, including ground rings and all splices, bonds and connections, and (2) conformance with Motorola R56 Standards and Guidelines for Communication Sites performed prior to backfilling. Include a photograph of each underground connection along with an annotated diagram documenting the location of each photograph.
- Visual inspection report demonstrating continuity of above ground grounding systems, including but not limited to tower, shelter ground bar, generator, propane tanks, fence, ice shields, trays and ladders.
- Certified ground resistance test report.
- Insulation resistance test report of electrical feeders and branch circuits.

(2) Generator and Fuel Systems

- Generator and ATS Start-up and Commissioning Report prepared by County's manufacturer-authorized generator vendor.

- Visual inspection and pressurized leak test report of propane fuel system prior to fueling and start-up.

(3) Other

- Building permit approved final inspection reports.
- As-built drawings
- O&M manuals and warranties
- Signed "Ready for Equipment Installation" certificate provided by County.

(c) On-site Construction Work - The Engineer will inspect the Project at a time close to the completion of On-Site Work.

When all On-Site Work on the Project is completed, including, but not limited to, Change Order Work and Extra Work, the Engineer will issue Second Notification as specified in 00180.50(g).

Within 15 Calendar Days after the Engineer receives the Contractor's written notification that all punch list items, final trimming and cleanup according to 00140.90 have been completed, the Engineer will review the Project and notify the Contractor that all Work is complete, or will give the Contractor written instruction regarding incomplete or unsatisfactory Work.

(d) All Contract Work - The Engineer will issue the Third Notification when the Contractor has satisfactorily accomplished all of the following: • The Contractor has completed all On-Site Work required under the Contract, including the punch list items from (a) above; • The Contractor has removed all Equipment, other than that incorporated into the Work; and • The Contractor has submitted all required certifications, bills, forms, warranties and other documents.

SECTION 00160 - SOURCE OF MATERIALS

Comply with Section 00160 of the General Conditions.

SECTION 00165 - QUALITY OF MATERIALS

Comply with Section 00165 of the General Conditions.

SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES

Comply with Section 00170 of the General Conditions modified as follows:

00170.70(a) Insurance Coverages – Add the following after the first paragraph:

Insurance Coverages	Combined Single Limit per Occurrence	Annual Aggregate Limit
• Commercial General Liability	$1,000,000	$2,000,000
• Commercial Auto Liability	$1,000,000	(Aggregate limit not required)

SECTION 00180 - PROSECUTION AND PROGRESS

Comply with Section 00180 of the General Conditions modified as follows:

Add the following subsection:

00180.40(c) Specific Limitations - Limitations of operations specified in these Special Provisions include, but are not limited to, the following:

Limitations	Subsection
Cooperation with Utilities	00150.50
Contract Time	00180.50(h)
Right-of-Way and Access Delays	00180.65
Closed Lanes	00220.40(e)(1)
Special Events	00220.40(e)(2)(b)
Opening Sections to Traffic	00744.51

The Contractor shall be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this subsection.

00180.41 Project Work Schedules - Add the following paragraph:

The Contractor shall submit a Type **B** schedule.

Add the following subsections:

00180.50(h) Contract Time - The Contractor shall complete all Work to be done under the Contract not later than July 31, 2026.

00180.80(d) Basis for Adjustment of Contract Time – Replace the second to the last bullet in this subsection with the following bullet:

- Reasonably predictable weather conditions; or

00180.85(b) Liquidated Damages - Replace the first paragraph with the following:

Marion County will sustain damage if the Work required under the Contract is not completed within the specified Contract Time. The actual damage the County will sustain will be impossible to accurately determine. Therefore, the Contractor agrees to pay to the County, not as a penalty but as liquidated damages, any or all of the following:

(1) The amount of $120 per project site for each Calendar Day used in excess of the Contract Time or adjusted Contract Time for all Work under the Contract**.**

Calendar Day amounts are applicable when the Contract Time is expressed on the Calendar Day or fixed date basis.

SECTION 00190 – MEASUREMENT OF PAY QUANTITIES

Replace Section 00190 of the General Conditions in its entirety with the following:

00190.00 Scope – No separate measurement of quantities shall be made to determine Payment for Work.

SECTION 00195 - PAYMENT

Comply with Section 00195 of the General Conditions modified as follows:

00195.00(a) General – Replace this subsection with the following:

The Agency will pay only for materials and efforts incorporated into the Work or performed according to the terms of the Contract. No later than five (5) days prior to the Preconstruction Conference, the Contractor shall submit for approval by the Engineer a Schedule of Values for use in calculating progress payments under Section 00195.50.

SECTION 00196 - PAYMENT FOR EXTRA WORK

Comply with Section 00196 of the General Conditions.

SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK

Comply with Section 00197 of the Standard Specifications.

SECTION 00199 - DISAGREEMENTS, PROTESTS AND CLAIMS

Comply with Section 00199 of the General Conditions.

SECTION 00199 - DISAGREEMENTS, PROTESTS AND CLAIMS

Comply with Section 00199 of the General Conditions.

PART 00200 THRU 03000 – STANDARD SPECIFICATIONS

SECTION 00280 – EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications.

SECTION 00290 – ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications.

SECTION 00310 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications.

SECTION 00540 – STRUCTURAL CONCRETE

Comply with Section 00540 of the Standard Specifications.

EXHIBIT J – PROJECT SUMMARY LIST

MARION COUNTY RADIO PROJECT

PSL1. Government Furnished Materials & Equipment

County has purchased the materials and equipment described herein for incorporation into the Work by Contractor. County shall supply these materials and equipment to Contractor as Government Furnished Materials at no cost to Contractor. County shall make Government Furnished Materials available to Contractor at the specified staging areas with the suppliers as-delivered packaging, wrapping, pallets, crates and dunnage.

Contractor shall incorporate all Government Furnished Materials into the Work in accordance with the Project plans and specifications and the manufacturer's published instructions. Contractor is solely responsible for the loading, transport, and unloading of Government Furnished Materials from specified staging areas to each Project location.

PSL2. Electrical Generators (Government Furnished Equipment)

Make: Cummins
Models: C36N6 36KW 60 Hz Outdoor Propane Genset (Qty = 1)
C36N6 36KW 60 Hz Outdoor Diesel Genset (Qty = 1)
OTECB Transfer Switch-Electronic Control (Qty = 2)

Supplier Point of Contact: Sam Norman, Project Manager
Cummins Sales & Service North America
(c) 425.902.9513
samantha.norman@cummins.com

Staging Area Locations: Marion County Public Works Department
5155 Silverton Road NE, Building 2
Salem, Oregon 97305

County Point of Contact: Michael Pierce, Fleet Supervisor
503.365.3196
mpierce@co.marion.or.us

Refer to Supporting Documents for manufacturer's product specifications. County has purchased factory startup services from the generator supplier. Contractor shall notify County when generators are fully installed and ready for factory startup and shall coordinate and accommodate factory startup services by the generator supplier. Refer to **PSL3** for additional information.

PSL3. Project Sites

Project #2 - MARION COUNTY PUBLIC WORKS
5155 Silverton Road NE, Salem, OR 97305
LAT: N 44° 58' 30.7" (44.9752)
LONG: W 122° 57' 18.8" (-122.9552)

Source	Government Furnished Material / Equipment
Cummins	C36N6 36KW 60 Hz Outdoor Diesel Genset
Cummins	OTECB Transfer Switch-Electronic Control

Project #3 - EASTVIEW LANE

4830 Eastview Lane NE, Silverton, OR 97381
LAT: N 44° 59' 40.8" (44.9947)
LONG: W 122° 45' 57.8" (-122.7661)

Source	Government Furnished Material / Equipment
Cummins	C36N6 36KW 60 Hz Outdoor Propane Genset
Cummins	OTECB Transfer Switch-Electronic Control

EXHIBIT K - PLANS AND DRAWINGS AND SUPPORTING DOCUMENTS

Marion County
OREGON

SITE NAME:

CROSBY

17451 RALPH LN NE, WOODBURN, OR 97071

SHEET INDEX

CONSTRUCTION SUBMITTAL:

T-1	COVER SHEET
EX-1	EXISTING CONDITIONS
G-1	GENERAL NOTES
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ELEVATIONS
C-4	INTERIOR SHELTER PLANS
C-5	SHELTER SECTIONS
E-1	SITE GROUNDING PLAN & DETAILS
E-2	GROUNDING DETAILS I
E-3	GROUNDING DETAILS II
RF-1.0	RF TOWER APPURTENANCES I
RF-1.1	RF TOWER APPURTENANCES II
RF-1.2	RF TOWER APPURTENANCES III
RF-1.3	RF TOWER APPURTENANCES IV

PROJECT INFORMATION

PROPERTY OWNER:
MARION COUNTY-FINANCE
PO BOX 14500
SALEM, OR 97309

TOWER OWNER:
MARION COUNTY PUBLIC WORKS
5155 SILVERTON RD NE
SALEM, OR 97305
CONTACT:
BRIAN NICHOLAS
(503) 588-7943
bnicholas@co.marion.or.us

COUNTY:
MARION

JURISDICTION:
MARION COUNTY

ZONING:
P (PUBLIC)

PARCEL NUMBER(S) & AREA:
ACCOUNT #: 514437
TAXLOT #: 052W010000200
520,106.4 SQ FEET±
11.94 ACRES±

PROJECT AREA:
TOTAL COMPOUND AREA - 55,258 SQ FEET ± (EXISTING)
ACCESS DRIVE AND PARKING - EXISTING
TOTAL - 55,258 SQ FEET ±

PROJECT LOCATION:
*LAT: N 45° 10'17.3" (45.171470)
*LONG: W 122°52'12.0" (-122.870000)
*GROUND ELEVATION (ASML) = 184'±

*INFORMATION OBTAINED FROM GOOGLE EARTH

UTILITY PROVIDERS:
TELCO PROVIDER: N/A
POWER PROVIDER: PORTLAND GENERAL ELECTRIC

GENERAL INFORMATION:
1. TRAFFIC IS UNAFFECTED
2. SIGNAGE AT SITE IS PROPOSED
3. SITE IS UNMANNED AND HANDICAP ACCESS IS NOT REQUIRED

CODE INFORMATION:
1. IBC-2018 INTERNATIONAL BUILDING CODE
2. NEC-2017 NATIONAL ELECTRIC CODE
3. 2019 OREGON STRUCTURAL SPECIALTY CODE
4. 2017 NFPA 58 CODE
5. OCCUPANCY GROUP: U
6. CONSTRUCTION TYPE: II-B

PROJECT INFORMATION CONTINUED

APPLICANT:
MARION COUNTY PUBLIC WORKS
5155 SILVERTON RD NE
SALEM, OR 97305
CONTACT:
BRIAN NICHOLAS
(503) 588-7943
bnicholas@co.marion.or.us

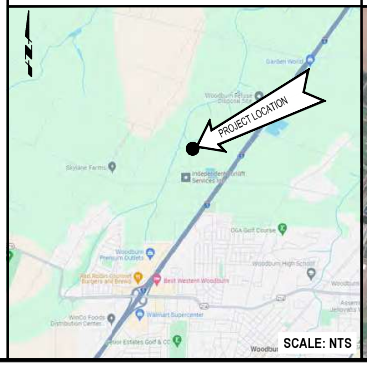
PROJECT MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

CONSTRUCTION MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

ZONING CONTACT:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
ROB HOWE
(503) 387-5331
rob@cushingcivilengineers.com

ENGINEER OF RECORD:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
KENNY MCMANAWAY
(503) 387-5331
kenny@cushingcivilengineers.com

VICINITY MAP



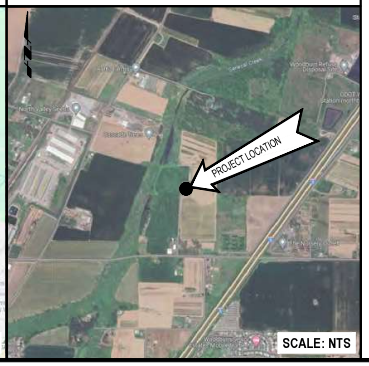
DRIVING DIRECTIONS

FROM MARION COUNTY PUBLIC WORKS BUILDING:

1. GET ON I-5 N IN SALEM FROM CORDON RD NE AND HAZELGREEN RD NE
   9 MIN (4.9 MI)
2. TURN RIGHT ONTO THE RAMP TO PORTLAND
   0.4 MI
3. FOLLOW I-5 N TO OR-214 N/OR-219 N/HILLSBORO-SILVERTON HWY NE IN WOODBURN. TAKE EXIT 271 FROM I-5 N.
   10 MIN (11.3 MI)
4. USE THE MIDDLE LANE TO TURN LEFT ONTO OR-214 N/OR-219 N/HILLSBORO-SILVERTON HWY NE. CONTINUE TO FOLLOW OR-219 N/HILLSBORO-SILVERTON HWY NE.
   0.2 MI
5. TURN RIGHT ONTO N ARNEY RD
   0.1 MI
6. TURN RIGHT TO STAY ON N ARVEY RD. PASS BY PANERA BREAD.
   1.5 MI
7. TURN LEFT ONTO CROSBY RD NE
   0.1 MI
8. TURN RIGHT ONTO RALPH LN NE. DESTINATION WILL BE ON THE LEFT.
   0.3 MI

EST. TIME: 25 MINS.
EST. MILEAGE: 18.5 MI

LOCATOR MAP



PROJECT DESCRIPTION

1. PROPOSED MODIFICATION OF AN EXISTING PUBLIC SAFETY COMMUNICATIONS FACILITY FOR MARION COUNTY, OREGON.
2. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT ON AN EXISTING 180' SELF-SUPPORT TOWER:
   * ANTENNA W/ ASSOCIATED ANCILLARY EQUIPMENT
3. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT WITHIN EXISTING GROUND SPACE:
   * EXISTING EQUIPMENT SHELTER IMPROVEMENT

THE CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN ELECTRICAL AND MECHANICAL (GENERATOR AND TANK INSTALL, HVAC AND PROPANE GAS PIPING) BUILDING PERMITS AND TO PAY ELECTRICAL AND MECHANICAL BUILDING PERMIT FEES.

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	02-12-25	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

DRAWING INFORMATION:
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PLANS PREPARED BY:

cushing
Civil Engineers

Cushing
Civil Engineers
12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

T-1

NOTE:
THIS IS NOT A SURVEY; ALL EXISTING INFORMATION IS PROVIDED BY MARION COUNTY GIS & SIDE WALK NOTES.

2
EX-1

(EX) CHAINLINK FENCED COMPOUND TO REMAIN

(EX) METER & DISCONNECT TO REMAIN

(EX) TRANSFORMER ON CONCRETE PAD TO REMAIN

(EX) UTILITY H-FRAME TO REMAIN

(EX) UTILITY POLE TO REMAIN

(EX) EQUIPMENT SHELTER TO BE UPGRADED

(EX) ICE BRIDGE TO REMAIN

(EX) 180' SELF-SUPPORT TOWER TO REMAIN

(EX) PROPANE TANK ON CONCRETE PAD TO REMAIN

(EX) BOLLARD TO REMAIN, TYP

RALPH LN NE

(EX) BUILDING TO REMAIN, TYP

(EX) ACCESS GATE TO REMAIN

(EX) ACCESS ROAD

0 8 16 32
SCALE: 1" = 16'

© 2024 Microsoft Corporation © 2024 Maxar ©CNES (2024) Distribution Airbus DS

EXISTING CONDITIONS | 11X17 SCALE: 1" = 32' | 22X34 SCALE: 1" = 16' | 1



SITE PHOTO SCALE: NTS | 2

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

	DATE	RELEASE
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PLANS PREPARED BY:

cushing Civil Engineers

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12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAMAY

RENEWAL DATE 12/31/26

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER:

EX-1

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.
3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITTING.
4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
8. THE CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.
9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES, THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THE CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO EQUAL OR BETTER NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE OWNERS REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL, SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.
14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROJECT MANAGER WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
16. THIS IS AN ESSENTIAL FACILITY THEREFORE SHALL STRICTLY MEET ALL APPLICABLE CODE AND JURISDICTIONAL REQUIREMENTS.

GENERAL NOTES CONTINUED:

17. THE CONTRACTOR SHALL PERFORM WORK DURING SITE/PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
18. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
21. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE PROJECT MANAGER PRIOR TO STARTING WORK.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (UNO).
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD (UNO).
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1-1/2 IN.
5. A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE (UNO). HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB.
6. INSTALLATION OF CONCRETE EXPANSION AND WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.
7. FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM EQUIPMENT.

SITE WORK NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY UNLESS OTHERWISE REQUIRED TO BE LEFT AS DEFINED BY LAND/PROPERTY OWNER.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, EQUIPMENT SHELTER, GENERATOR, FUEL TANK, TOWER AREAS, AND ADJACENT BUILDINGS, ETC.
3. 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.
4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION. FABRIC USE AS REQUIRED.
5. ALL APPLICABLE LOCATES SHALL BE PERFORMED PRIOR TO TO ANY EXCAVATION OR SITE GRADING. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.
7. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK..
8. BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TO COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER; GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION:

SIEVE SIZE	PERCENT PASSING
	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

9. BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL, CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE.

SITE WORK NOTES CONTINUED:

10. ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH INDUSTRY STANDARDS AND BE ALIGNED WITH BMP GUIDELINES AS TECHNICALLY APPLICABLE. EACH SITE MUST BE PM APPROVED BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED.
11. IF INADVERTENT DISCOVERIES OF NATIVE AMERICAN CULTURAL MATERIALS OR HUMAN REMAINS ARE MADE DURING CONSTRUCTION, ALL WORK SHOULD CEASE AND POTENTIALLY AFFECTED TRIBES, AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE, SHOULD BE NOTIFIED IMMEDIATELY.

TOWER/POLE NOTES:

1. ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.
2. ALL HARDWARE (NUTS AND BOLTS) BE TIGHTENED AND TORQUED IN ACCORDANCE WITH THE TOWER MANUFACTURER'S AND STRUCTURAL ENGINEER'S SPECIFICATIONS.
3. VERIFICATION THAT THE TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
4. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ATTENTION (OREGON SITES ONLY):

CALL 1-800-332-2344 48 HOURS BEFORE YOU DIG, OREGON LAW REQUIRES YOU TO FOLLOW OAR 952-001-0010 THRU 952-001-0090. COPIES ARE AVAILABLE AT THE OREGON UTILITY NOTIFICATION CENTER 503-232-1987

DESIGN LOADS:

ROOF SNOW LOAD DATA -	GROUND SNOW LOAD:	65 PSF
	FLAT-ROOF SNOW LOAD:	N/A
	SNOW EXPOSURE FACTOR:	N/A
	SNOW LOAD IMPORTANCE FACTOR:	N/A
	THERMAL FACTOR:	N/A
WIND DESIGN DATA -	ULTIMATE DESIGN WIND SPEED:	107 MPH
	RISK CATEGORY:	IV
	WIND EXPOSURE:	C
	INTERNAL PRESSURE COEFFICIENT:	N/A
	DESIGN WIND PRESSURES;	
	WIND LOAD HORIZONTAL (MWFRS):	N/A
	WIND LOAD (UPLIFT) (MWFRS):	N/A
EARTHQUAKE DESIGN DATA -	RISK CATEGORY:	IV
	SEISMIC IMPORTANCE FACTOR:	N/A
	MAPPED SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_s	0.93
	S_1	0.37
	SITE CLASS:	D
	DESIGN SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_{DS}	0.78
	S_{D1}	0.53
	SEISMIC DESIGN CATEGORY:	D
	BASIC SEISMIC FORCE-RESISTING SYSTEM:	N/A
	DESIGN BASE SHEAR:	N/A
	SEISMIC RESPONSE COEFFICIENT:	N/A
	RESPONSE MODIFICATION COEFFICIENT:	N/A
	ANALYSIS PROCEDURE USED:	N/A
GEOTECHNICAL INFORMATION -	ALLOWABLE BEARING CAPACITY:	N/A

INFORMATION OBTAINED FROM ASCE 7 HAZARD TOOL

ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGL	ABOVE GRADE LEVEL
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BLK	BLOCK
BMR	BASE MOBILE RADIO
B/S	BUILDING STANDARD
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DIA, Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DTL, DETL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EL, ELEV	ELEVATION
ELECT	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
E.W.	EACH WAY
EX	EXISTING
EXT	EXTERIOR
FIN	FINISH
FLUOR	FLUORESCENT
FLR	FLOOR
FT	FOOT
GA	GAUGE
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GRND	GROUND
GWB	GYPSUM WALL BOARD
GYP BD	GYPSUM BOARD
HARDWD	HARDWOOD
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTING AND AIR CONDITIONING
I.D.	INSIDE DIA.
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
LB(S)	POUND(S)
LNA	ANTENNA AMPLIFIER
MAX	MAXIMUM
MECH	MECHANICAL
MET, MTL	METAL
MFR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC, o/c	ON CENTER
OD	OUTSIDE DIAMETER
OPG	OPENING
OPP	OPPOSITE
OHP	OVERHEAD POWER
UGP	UNDRGRND POWER
OHT	OVERHEAD TELCO
UGT	UNDRGRND TELCO
PR	PAIR
PROJ	PROJECT
PROP	PROPERTY
P	PROPOSED
PT	PRESSURE TREATED
REQ'D	REQUIRED
RM	ROOM
R.O.	ROUGH OPENING
S	SOUTH
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
S.V.	SHEET VINYL
THRU	THROUGH
TNND	TINNED
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
W	WEST
W/	WITH
WIN	WINDOW
W/O	WITHOUT
WP	WATERPROOF
∠	ANGLE
&	AND
℄	CENTER LINE
℞	PROPERTY LINE
@	AT
#	NUMBER

SYMBOLS LEGEND

- REVISION
- KEY NOTE DETAIL
- REFERENCE ELEVATION (3 / C-4)
- SECTION REFERENCE (A / C-3)
- ELEVATION DATUM POINT
- CHAINLINK FENCE
- CEDAR FENCE
- PROPANE (LPG)
- UNDERGROUND POWER (P)
- OVERHEAD POWER (OHP)
- TELCO (T)
- POWER/TELCO (T/P)
- GAS (G)
- WATER (W)
- COAX (COAX)
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- SUBJECT PROPERTY LINE

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	02-12-25	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

Cushing
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SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAN

RENEWAL DATE 12/31/26

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

G-1



OVERALL SITE PLAN | 11X17 SCALE: 1" = 100' | 22X34 SCALE: 1" = 50' | 1

Marion County OREGON

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OREGON
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KENNY McMANAWAY

RENEWAL DATE 12/31/26

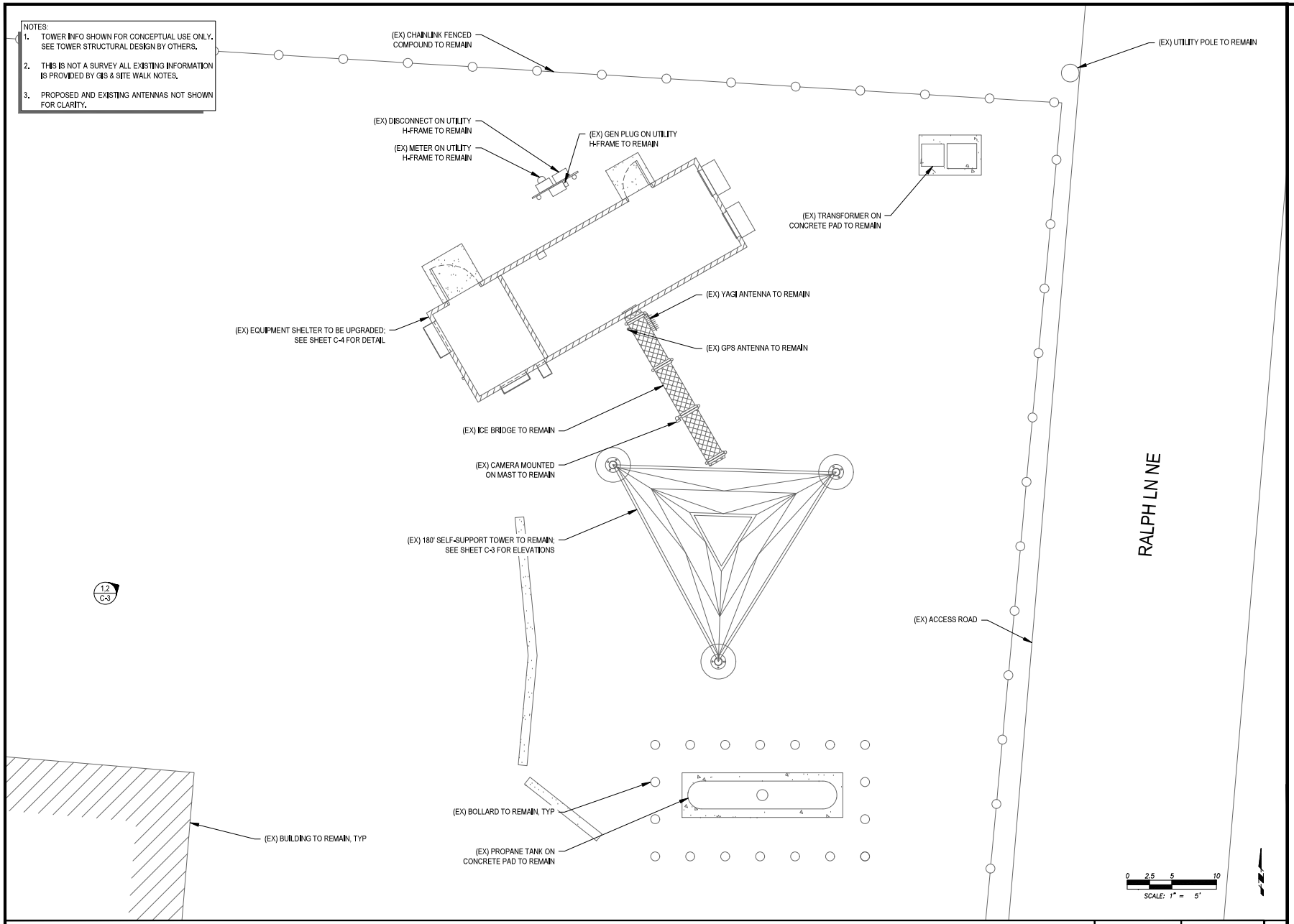
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1

NOTES:
1. TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL DESIGN BY OTHERS.
2. THIS IS NOT A SURVEY ALL EXISTING INFORMATION IS PROVIDED BY GIS & SITE WALK NOTES.
3. PROPOSED AND EXISTING ANTENNAS NOT SHOWN FOR CLARITY.



ENLARGED SITE PLAN | 11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

Marion County OREGON

PROJECT INFORMATION:

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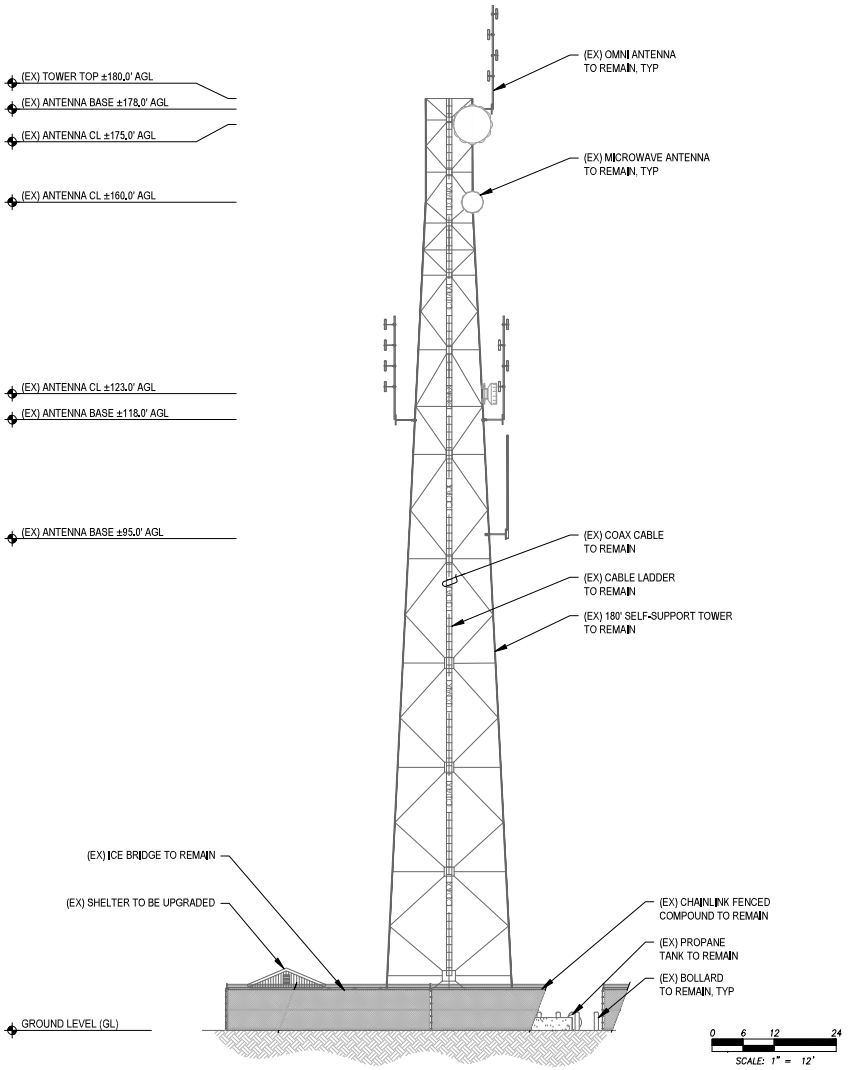
RENEWAL DATE 12/31/26

SHEET TITLE:

ENLARGED SITE PLAN

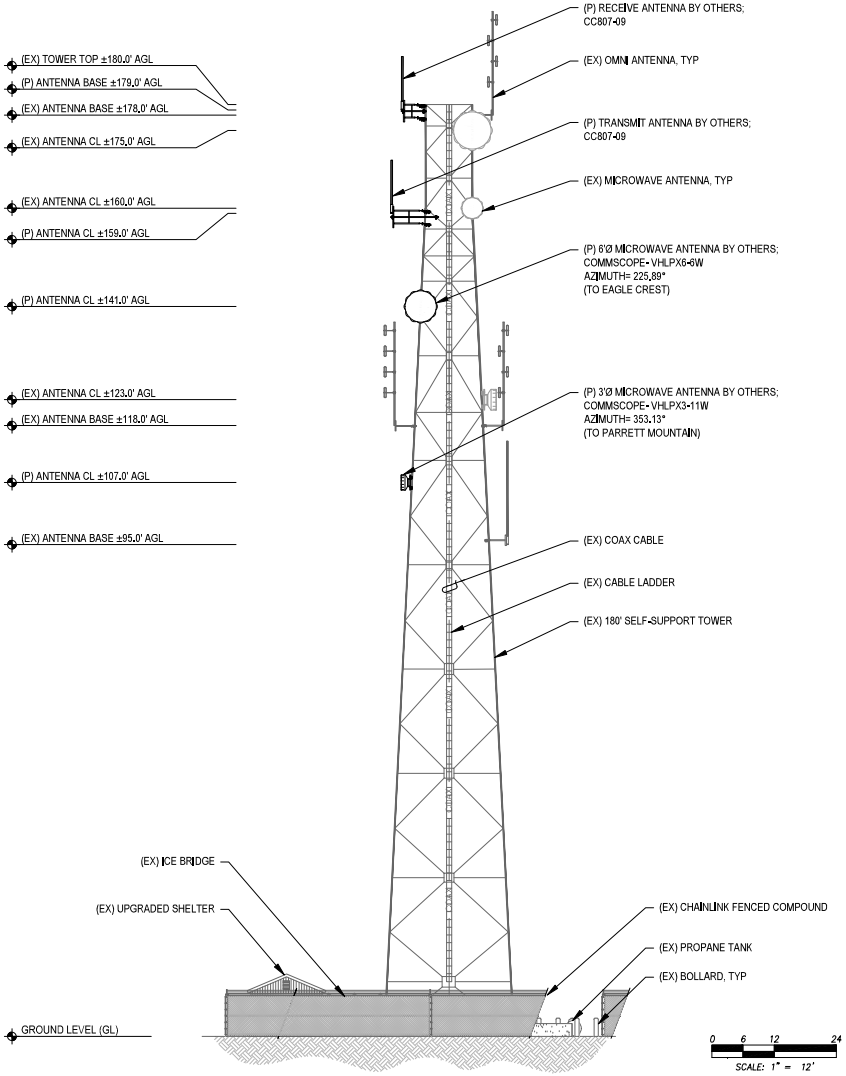
SHEET NUMBER:

C-2



EXISTING SOUTHWEST ELEVATION | 11X17 SCALE: 1" = 24' | 22X34 SCALE: 1" = 12' | **1**

NOTES:
1. TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL REPORT BY OTHERS.
2. LOADING INFORMATION PROVIDED BY TAIT COMMUNICATIONS.



PROPOSED SOUTHWEST ELEVATION | 11X17 SCALE: 1" = 24' | 22X34 SCALE: 1" = 12' | **2**

Marion County OREGON

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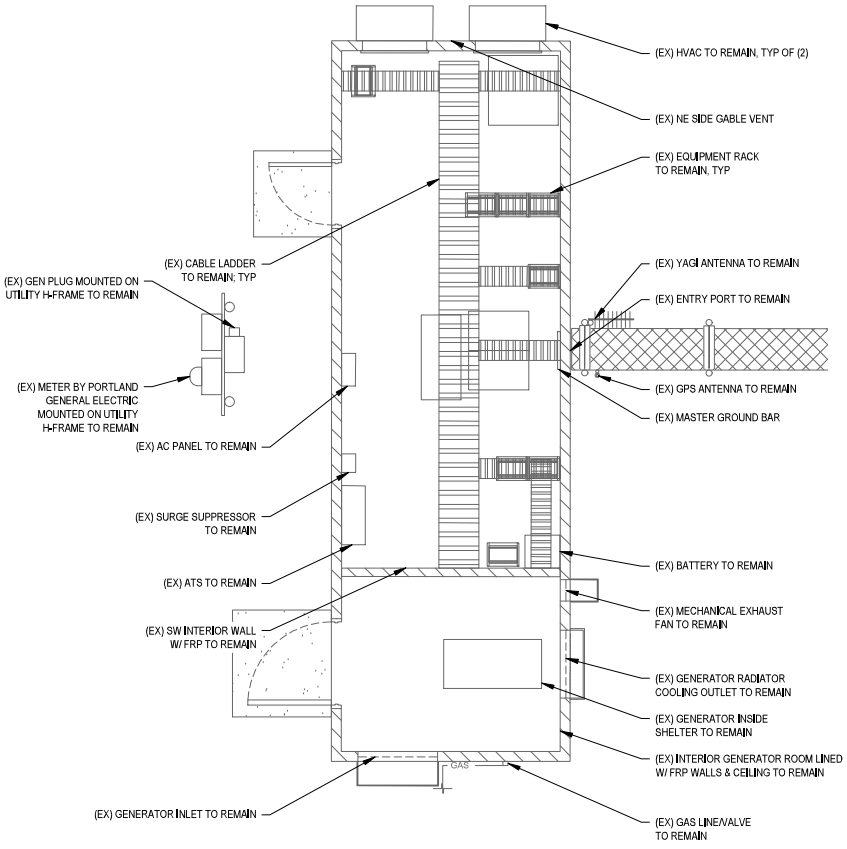
RENEWAL DATE 12/31/26

SHEET TITLE:

ELEVATIONS

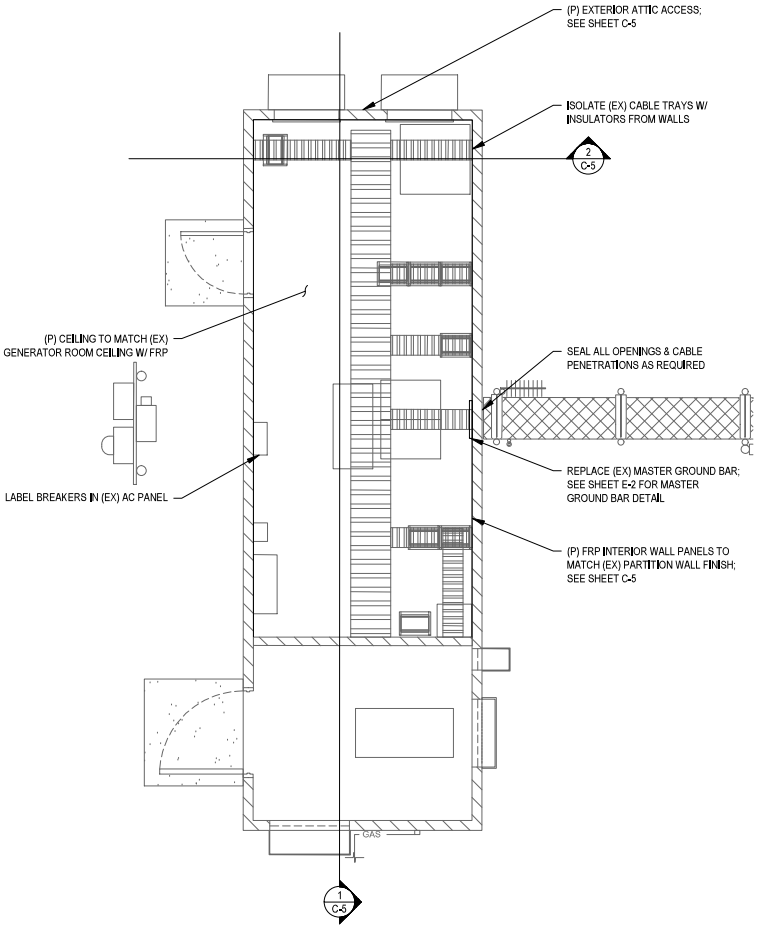
SHEET NUMBER:

C-3



EXISTING FLOOR PLAN | 11X17 SCALE: 1" = 6' | 22X34 SCALE: 1" = 3' | 1

NOTES:
1. SHELTER GROUNDING TO MEET R56 STANDARDS.
2. SEE SHEET E-1 THRU E-3 FOR ADDITIONAL GROUNDING UPGRADES.



PROPOSED FLOOR PLAN | 11X17 SCALE: 1" = 6' | 22X34 SCALE: 1" = 3' | 2

Marion County OREGON

PROJECT INFORMATION:

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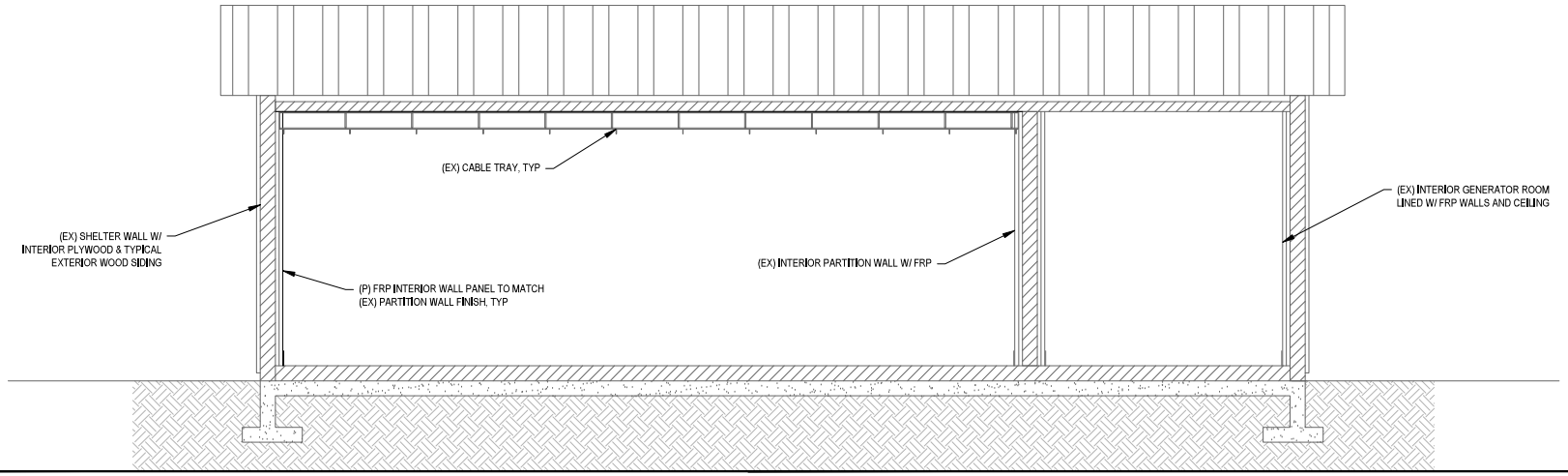
RENEWAL DATE 12/31/26

SHEET TITLE:

INTERIOR SHELTER PLANS

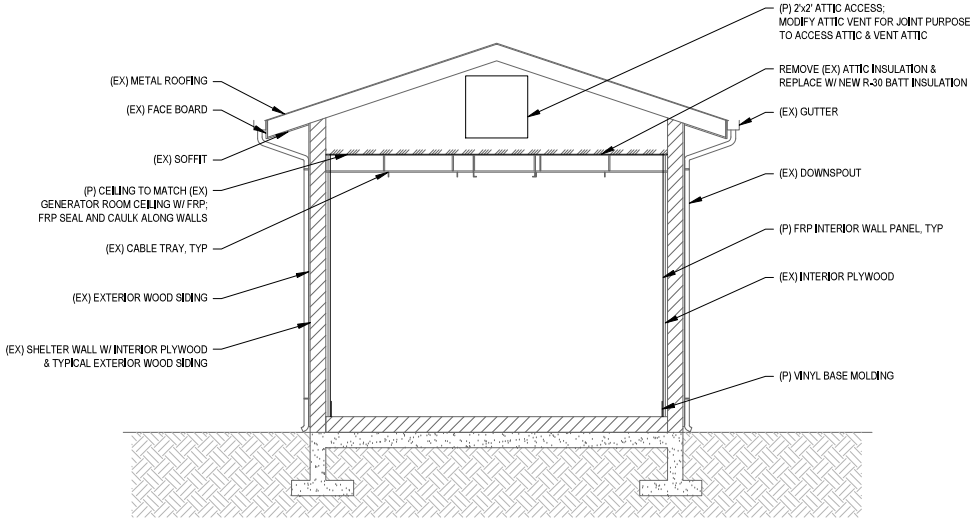
SHEET NUMBER:

C-4



WALL SECTION W/ INTERNAL VIEW LOOKING SOUTHEAST SCALE: NTS | 1

NOTE:
SEE E-SHEETS FOR ADDITIONAL GROUNDING UPGRADES.



WALL SECTION W/ INTERNAL VIEW LOOKING NORTHEAST SCALE: NTS | 2

Marion County OREGON

PROJECT INFORMATION:

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WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	02-12-25	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

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www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAY

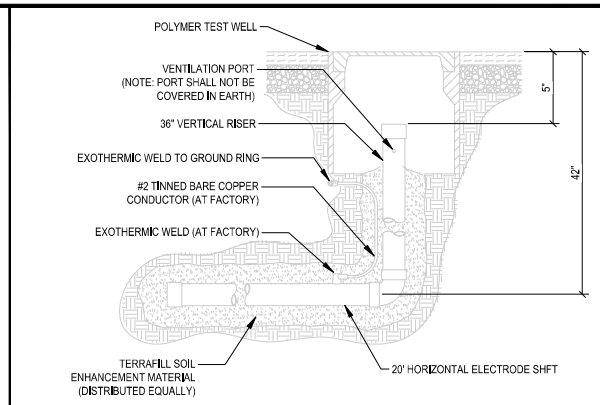
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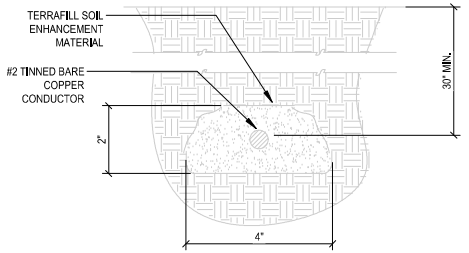
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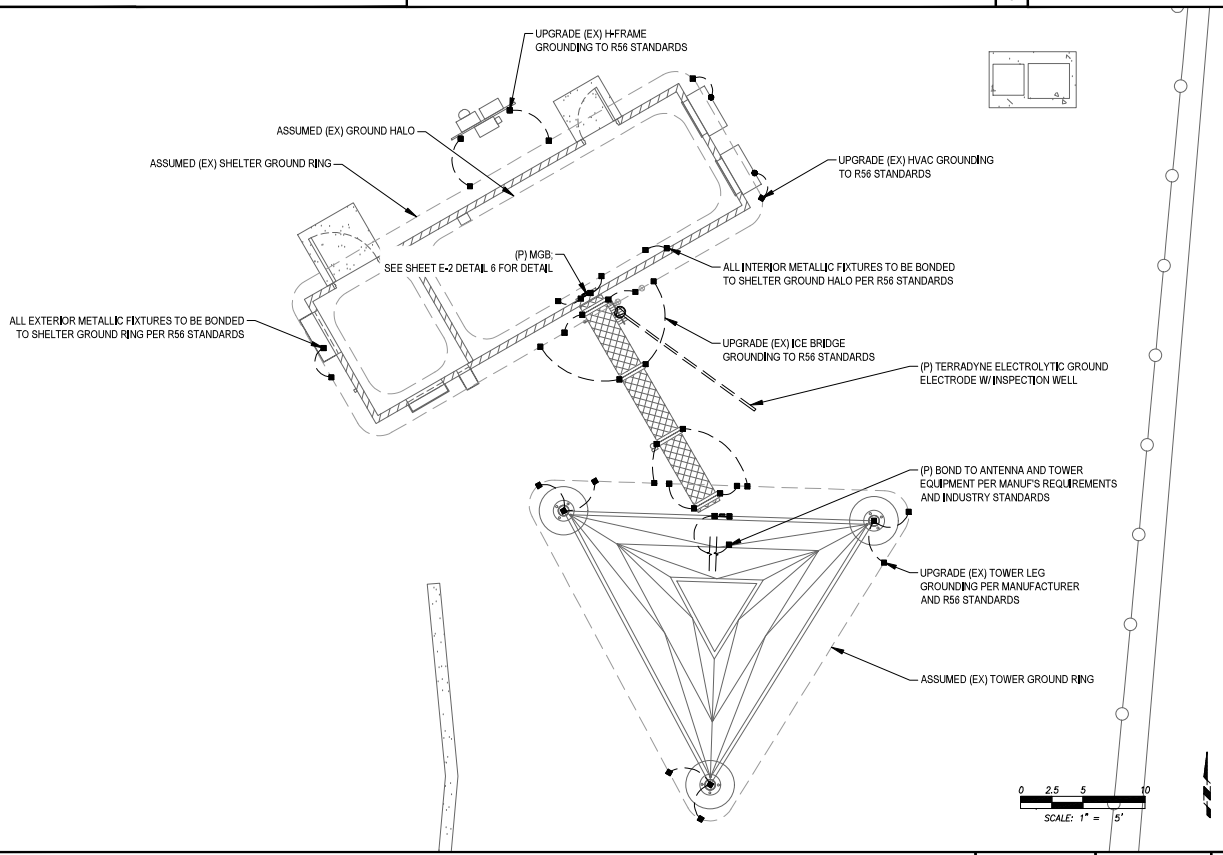
C-5



TERRADYNE ELECTROLYTIC GROUND ELECTRODE SCALE: NTS 3



SOIL ENHANCEMENT DETAIL SCALE: NTS 2



SITE COMPOUND GROUNDING PLAN 11X17 SCALE: 1" = 10' 22X34 SCALE: 1" = 5' 1

GENERAL NOTES:

1. ALL INSTALLATIONS ARE TO BE FIELD VERIFIED.
2. GROUND CONDUCTORS ARE TO BE BURIED AT A MINIMUM 30" BELOW GRADE OR 6" BELOW FREEZE LINE, WHICHEVER IS GREATER.
3. ALL BELOW GRADE GROUNDING CONDUCTORS ARE TO BE ENCOMPASSED IN A 2" X 4" BED OF SOIL ENHANCEMENT MATERIAL.
4. BONDS TO FENCE POSTS ARE TO BE MADE AT 12" ABOVE GRADE WHERE APPLICABLE.
5. NO CONDUCTOR SHALL HAVE A BEND IN RADIUS OF LESS THAN 12" AND SHALL NOT EXCEED 90 DEGREES.
6. TERRADYNE ELECTROLYTIC GROUND ELECTRODES ARE NOT TO SHARE THE SAME TRENCH AS GROUNDING CONDUCTOR, NOR RUN IN A PARALLEL PATH TO THE CONDUCTOR.
7. ALL GROUND SYSTEMS ARE TO BE MADE COMMON.
8. ALL BONDS ARE TO BE COATED WITH ANTI-OXIDATION COMPOUND.
9. WHERE STANDARD GROUND ELECTRODES ARE UNABLE TO BE DRIVEN, 12" X 12" X 1/8" COPPER GROUND PLATES SHALL BE INSTALLED 30" BELOW FINISHED GRADE & ENCOMPASSED IN 50LBS OF TERRAFILL SOIL ENHANCEMENT MATERIAL.

LEGEND:

- TERRADYNE TG-20L-H36-2T-36-4F-P SERIES ELECTRODE W/ INSPECTION WELL
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE WITH INSPECTION SLEEVE
- #2 TINNED SOLID COPPER CONDUCTOR

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

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REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

SITE GROUNDING PLAN & DETAILS

SHEET NUMBER:

E-1

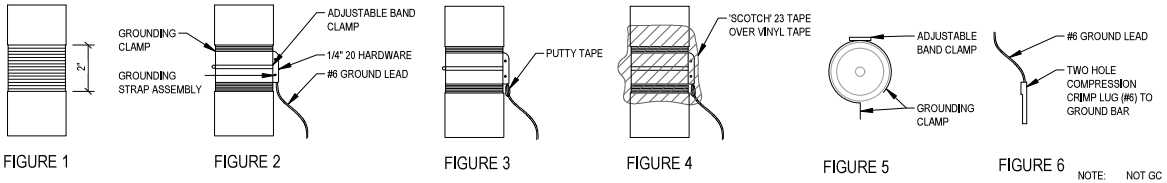
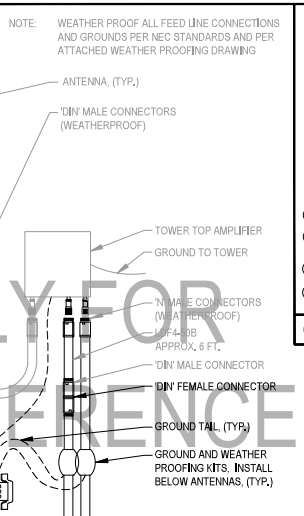


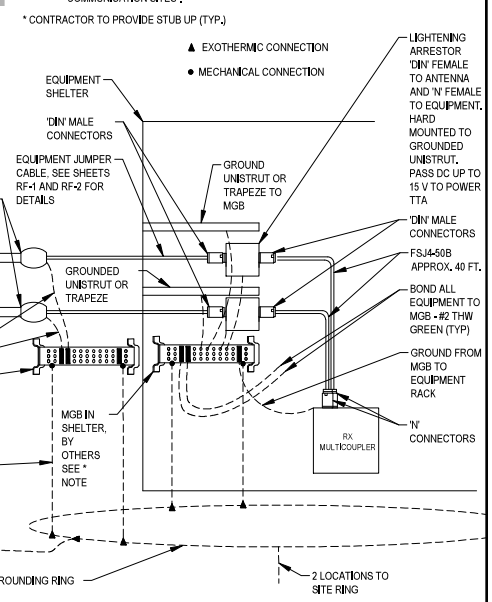
FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4 FIGURE 5 FIGURE 6

NOTE: NOT GC

FEED LINE CABLE GROUNDING

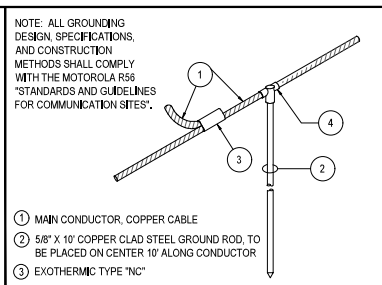
SCALE: NTS | 2





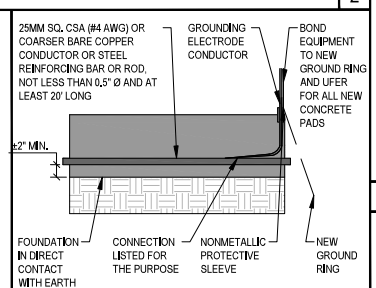
STANDARD RX GROUNDING SCHEMATICS

SCALE: NTS | 1



GROUND ROD DETAIL

SCALE: NTS | 4



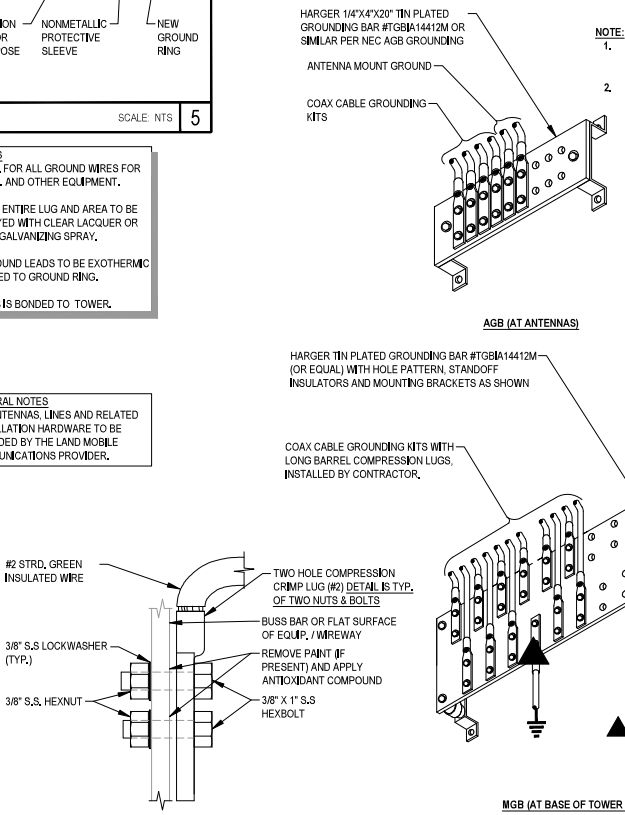
NOTE: FOR REFERENCE ONLY

UFER DETAIL

SCALE: NTS | 5

NOTES
1. TYP. FOR ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.
2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LACQUER OR COLD GALVANIZING SPRAY.
3. GROUND LEADS TO BE EXOTHERMIC WELDED TO GROUND RING.
4. AGB IS BONDED TO TOWER.

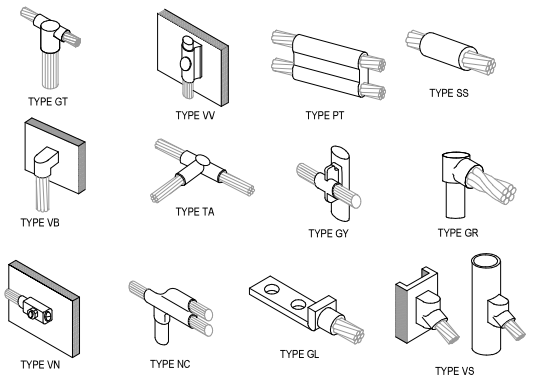
GENERAL NOTES
ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.



MGB (AT BASE OF TOWER AND EQUIPMENT)

GROUND BAR DETAILS

SCALE: NTS | 6



TYPICAL EXOTHERMIC CONNECTION DETAILS

SCALE: NTS | 3

NOTE:
1. DO NOT BOND AIR TERMINAL OR LIGHTNING ROD TO AGB
2. AGB GROUND BAR TO BE PLATED. AGB TO BE BONDED DIRECTLY TO TOWER.

AGB (AT ANTENNAS)

ONLY FOR REFERENCE

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

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LICENSURE:

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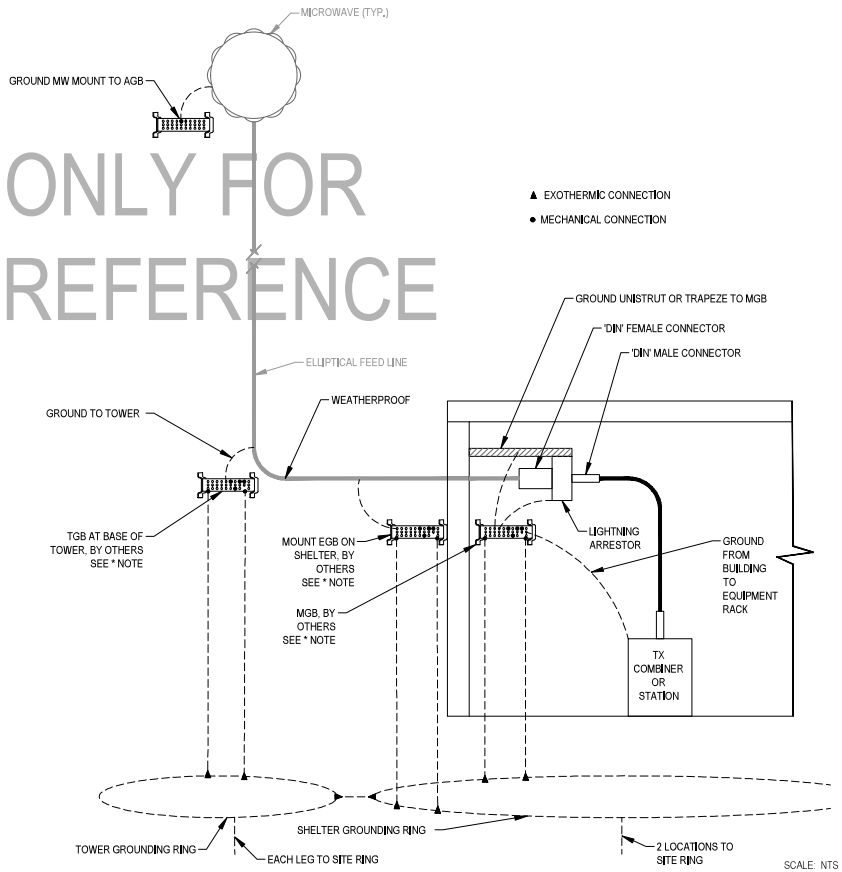
RENEWAL DATE 12/31/26

SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER:

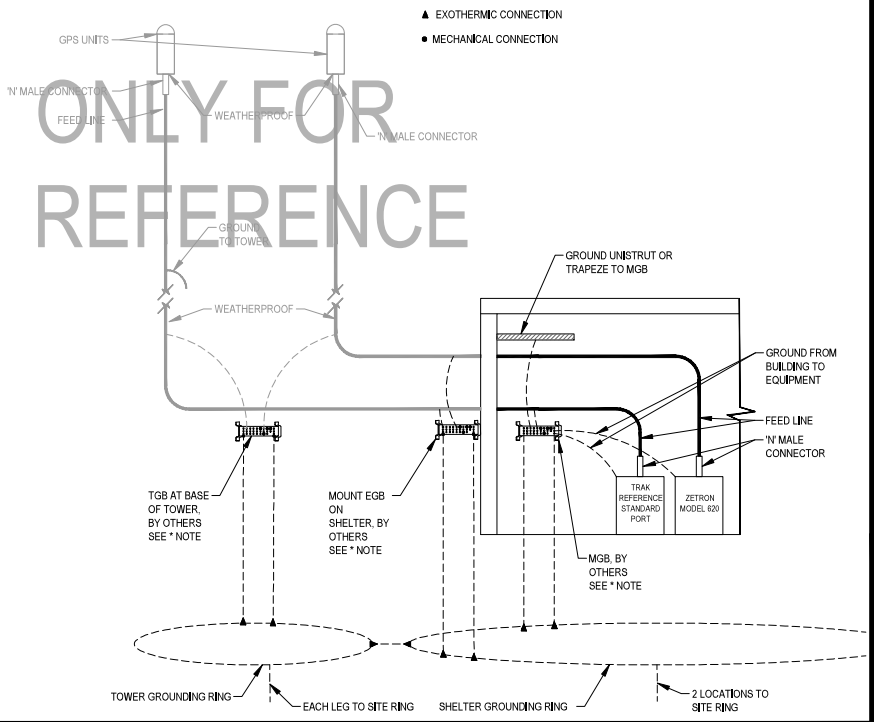
E-2



ONLY FOR REFERENCE

TYPICAL MICROWAVE ANTENNA GROUNDING SCHEMATICS | 1

NOTE:
TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL REPORT BY OTHERS.



ONLY FOR REFERENCE

TYPICAL GPS ANTENNA GROUNDING SCHEMATICS SCALE: NTS | 2

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAN

RENEWAL DATE 12/31/26

SHEET TITLE:

GROUNDING DETAILS II

SHEET NUMBER:

E-3

SITE INFORMATION	
SITE NAME	CROSBY

LOCATION INFORMATION			
COUNTY	MARION COUNTY		
STREET ADDRESS	17451 RALPH LN NE		
CITY	WOODBURN	STATE	OR
ZIP CODE	97071		
LATITUDE (DEC.)/(DEG)	45.171470 / 45° 10'17.3" N		
LONGITUDE (DEC.)/(DEG)	-122.870000 / 122°52'12.0" W		

TOWER INFORMATION			
STRUCTURE	SELF-SUPPORTING TOWER	TOWER MANUFACTURER	VALMONT
TOWER OWNER	MARION COUNTY	SERIAL/MODEL #	-
GROUND ELEVATION	±184'	# OF APPURTENANCE	-
# OF LEGS	3	HIGHEST POINT W/ ANT	-
TOWER HEIGHT W/O ANT	180'		

#	Description	Part Number	Length (ft)	Leg/Face	Status	Base Height (ft)	Centerline Height (ft)	Tip Height (ft)	Antenna Azimuth	Mount Azimuth	Mount	Transmission Line Size / Type
1	P25 TX Antenna	CC807-09	10.3	C	New	159	164	169	-		Site-Pro PSA-6 (6' standoff)	7/8"
2	P25 RX Antenna	CC807-09	10.3	C	New	179	184	189	-		Standard	1/2" to TTA
3	TTA	NPD3633A-TTA	1.0	C	New	176	177	177	-		Standard	7/8"
4	Microwave - Eagle Crest	VHLP6-6W	6.0	B	New	138	141	144	225.89	225.89	Standard w/ tieback	EW63
5	Microwave - Parrett Mtn	VHLPX3-11W	3.0	C	New	106	107	109	353.13	353.13	Standard w/ tieback	EW90
6	Microwave-1		10	B	Existing	170	175	180			Standard	
7	Microwave-2		4	B	Existing	158	160	162			Standard	
8	Microwave-3		4	B	Existing	121	123	125			Standard	
9	Dipole-1	VHF Dipole	20	A	Existing	178	188	198			Standoff	
10	Dipole-2	VHF Dipole	20	B	Existing	118	128	138			Standoff	
11	Dipole-3	VHF Dipole	20	A	Existing	118	128	138			Standoff	
12	Dipole-4	VHF Dipole	20	C	Existing	118	128	138			Standoff	
13	Omni-1		20	A	Existing	95	105	115			Standoff	

NOTE:

INFORMATION BASED ON TAIT COMMUNICATIONS' DOCUMENT DATED 08/11/2025 PROVIDED BY MARION COUNTY.

PROVISIONAL

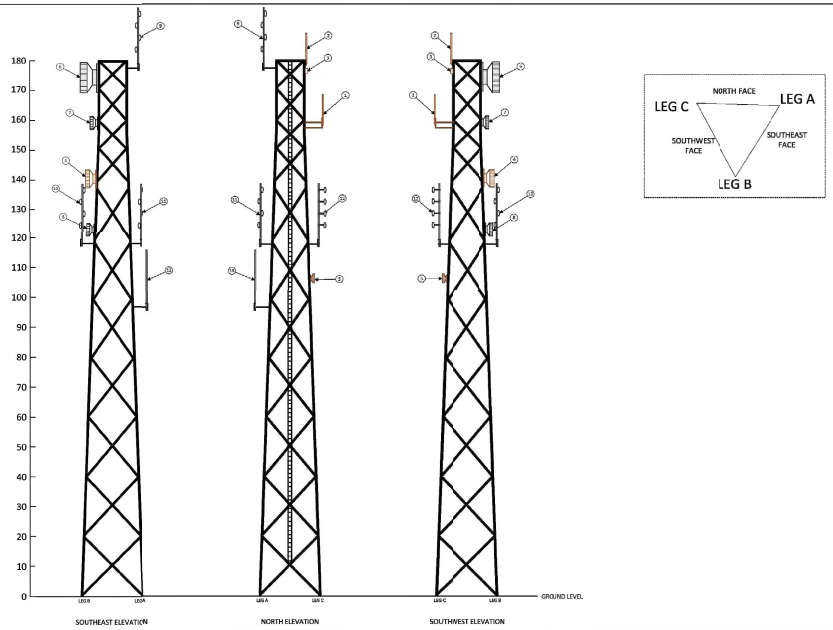
tait communications

Marion County, OR
700 MHz
P25 Phase II

Date	8/11/2025
Drawn	RCA
Checked	-

FILE: marion county-or_crosby.vsd

Crosby
Appurtenance Chart



PROVISIONAL

tait communications

Marion County, OR
700 MHz
P25 Phase II

Date	8/11/2025
Drawn	RCA
Checked	-

FILE: marion county-or_crosby.vsd

Crosby
Tower Plan

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAMAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES I

SHEET NUMBER:

RF-1.0

VHLPX3-11W/A

Base Product



0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.125–11.700 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	0
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	0.9 m | 3 ft

Electrical Specifications

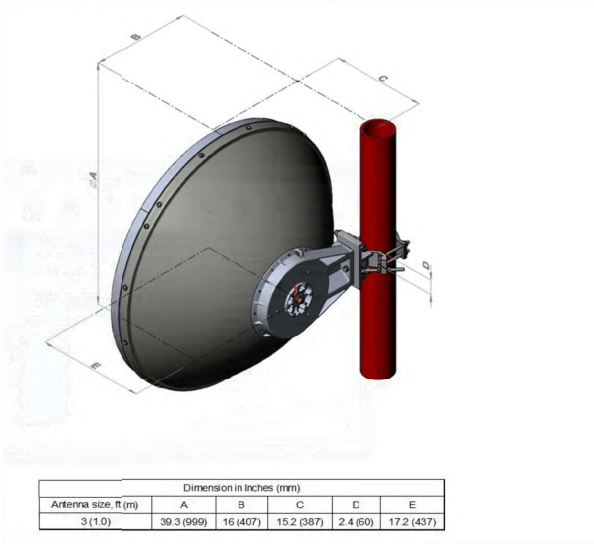
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	37.8 dBi
Gain, Mid Band	38.4 dBi
Gain, Top Band	39 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	64 dB
Beamwidth, Horizontal	2 °
Beamwidth, Vertical	2 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7177A | 7178A
Electrical Compliance	Brazil Anatel Class 2 | Canada SRSP 310.5 | ETSI 302 217 Class 3 | US FCC Part 101A @ 10.55–10.7 GHz | US FCC Part 101A @

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VHLPX3-11W/A

Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	2903 N | 652.521 lbf
Angle α for MT Max	0 °
Side Force (FS)	1439 N | 323.5 lbf
Twisting Moment (MT)	1179 N-m | 10,435.029 in lb
Zcg without Ice	135 mm | 5.315 in
Zcg with 1/2 in (12 mm) Radial Ice	84 mm | 3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg | 101.413 lb

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NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

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83233
OREGON
JUNE 7, 2012
KENNY McMANAMAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES II

SHEET NUMBER:

RF-1.1

VHLPX6-6W/B

Base Product



1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 5.925–7.125 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	1
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	1.8 m	6 ft

Electrical Specifications

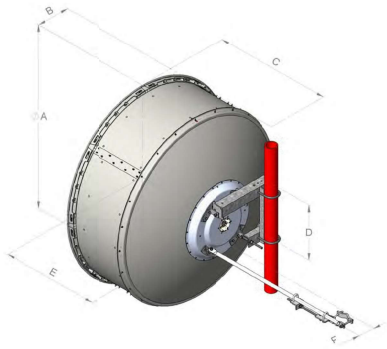
Operating Frequency Band	5.925 – 7.125 GHz
Gain, Low Band	38.5 dBi
Gain, Mid Band	39.3 dBi
Gain, Top Band	40.1 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.8 °
Beamwidth, Vertical	1.8 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7139B
Electrical Compliance	Brazil Anatel Class 3 | Canada SRSP 305.9 Part A | Canada SRSP 306.4 Part A | ETSI 302 217 Class 3 | US FCC Part 101A

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VHLPX6-6W/B

Antenna Dimensions and Mounting Information



Antenna size, ft (m)	Dimensions in inches (mm) A	B	C	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	10670 N | 2,398.712 lbf
Angle α for MT Max	-120 °
Side Force (FS)	5286 N | 1,188.34 lbf
Twisting Moment (MT)	4752 N-m | 42,058.742 in lb
Zcg without Ice	363 mm | 14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	543 mm | 21.378 in
Weight with 1/2 in (12 mm) Radial Ice	234 kg | 515.881 lb

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83233
OREGON
JUNE 7, 2012
KENNY McMANAMAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES III

SHEET NUMBER:

RF-1.2

800MHz Corporate Collinear Antennas

748-870MHz

CC807 Series

These industry leading, full featured corporate collinear arrays allow site operators to combine, with complete integrity, a large number of communications services into a single, low profile antenna solution.

The corporate feed design employed by RFI maintains superior pattern control, allowing gain to be maximised with zero tilt variation over a very broad bandwidth, comparable to that only previously available in exposed dipole array configurations. This is achieved in the preferred form factor of a fully enclosed fibreglass radome, providing a reduction in wind loading, ice loading and tower loading in comparison.

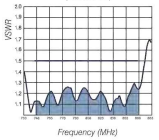
The CC807 series have been designed with an exceptional power rating of 500W across the band as well as a Peak Instantaneous Power (PIP) rating of 25kW to cater for the peak voltage levels present in large multi-carrier combining environments. RFI's refined design processes and proven construction methods achieve a PIM rating of –150dBc, further ensuring performance is maintained for the service life of the antenna.

Features:

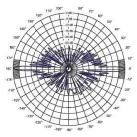
- 500W Continuous Power rating
- -150dBc Passive Intermodulation (PIM) rating, 100% PIM tested
- 25 kW Peak Instantaneous Power (PIP) rating
- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise.
- Light weight dipole construction using RFI's patented flexi-PCB architecture, maintains a low centre of gravity reducing tip deflection and sway
- Field invertible (excluding tilt models)
- Preset downtilt variations of 2 and 4 degrees available, see note (1)



Typical VSWR Response (CC807-12)



CC807-12 - E Plane



Electrical Specifications

Model Number	CC807-09-P	CC807-12-P
Nominal Gain *dBd (dBi)*	9.0 (11.1)	11.5 (13.6)
Frequency *MHz*	746-870	
Tuned Bandwidth *MHz*	Full	
VSWR *(Return Loss)*	1.5:1	
Nominal Impedance Ω	50	
Downtilt°	0 Std 2, 4 (1)	
Vertical Beamwidth°	8	4
Horizontal Beamwidth°	Omni +/- 0.5dB	
Input Power W	500	
Passive IM 3rd order (2x20W) *dBc*	-150	
Peak Instantaneous Power *kW*	25	

Mechanical

Model Number		CC807-09-P	CC807-12-P
Construction		Sky blue fibreglass radome	
Radome Diameter mm (inches)		76 (3.0)	
Length mm (inches)		3135 (123.4)	6235 (245.5)
Weight *kg (lbs)*		14 (30.9)	25.5 (56.2)
Termination		Integrated 4.3-10 Female	
Mountaing Area mm (inches)		750 x 90 (30 x 3.5) diameter Ecofilm™ plated aluminium	
Suggested Clamps		3 x UC-114	
Shipping Dimensions *mm (inches)*	H	115 (4.5)	
	W	115 (4.5)	
	L	3335 (131.3)	6435 (253.3)
Shipping Weight *kg (lbs)*		20.0 (44.1)	36.5 (80.5)
Projected area *cm² (ft²)*	No Ice	2597 (2.8)	5559 (6.0)
	With Ice	3192 (3.4)	7037 (7.6)
Lateral Thrust @166km/h *N* (100 mph lbs)		308 (69)	659 (148)
Wind Gust Rating *km/h (mph)*	No Ice	>240 (150)	
Torque @ 160km/h *Nm* (100mph ft-lbs)		413 (305)	1823 (1345)

(1) To order pre-set downtilt versions available, simply add a -T2 or -T4 towards the end of the part number to denote downtilt model required. For eg. CC807-12-T2-P to order CC807-12-P with 2deg of downtilt. Please note: Models with downtilt are NOT field invertible. . Eg. CC807-12-T2-P

Asia Pacific | EMEA | Americas

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rfi.com.au

NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
CROSBY

17451 RALPH LN NE
WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	09-13-25	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

Cushing
Civil Engineers

12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES IV

SHEET NUMBER:

RF-1.3

SITE NAME:

MCPW

5155 SILVERTON RD NE, SALEM, OR 97305

SHEET INDEX

CONSTRUCTION SUBMITTAL:

T-1	COVER SHEET
EX-1	EXISTING CONDITIONS
G-1	GENERAL NOTES
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ELEVATIONS
C-4	INTERIOR SHELTER PLANS
C-5	COMPOUND DETAILS
C-6	DIESEL GENERATOR DETAILS
E-1	SITE GROUNDING PLAN & DETAILS
E-2	GROUNDING DETAILS I
E-3	GROUNDING DETAILS II
RF-1.0	RF TOWER APPURTENANCES I
RF-1.1	RF TOWER APPURTENANCES II
RF-1.2	RF TOWER APPURTENANCES III
RF-1.3	RF TOWER APPURTENANCES IV

PROJECT INFORMATION

PROPERTY OWNER:
MARION COUNTY-FINANCE
MARION COUNTY PUBLIC WORKS
PO BOX 14500
SALEM, OR 97309

TOWER OWNER:
CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CONTACT:
(866) 482-8890
lohd@crowncastle.com

COUNTY:
MARION

JURISDICTION:
MARION COUNTY

ZONING:
P (PUBLIC)

PARCEL NUMBER(S) & AREA:
ACCOUNT #: 522663
TAXLOT #: 072W08D000300
674,308.8 SQ FEET±
15.48 ACRES±

PROJECT AREA:
TOTAL COMPOUND AREA - 1,324 SQ FEET ±
ACCESS DRIVE AND PARKING - EXISTING
TOTAL - 1,324 SQ FEET ±

PROJECT LOCATION:
*LAT: N 44° 58'30.7" (44.975200)
*LONG: W 122°57'18.8" (-122.955210)
*GROUND ELEVATION (ASML) = 200'±

*INFORMATION OBTAINED FROM GOOGLE EARTH

UTILITY PROVIDERS:
TELCO PROVIDER: N/A
POWER PROVIDER: PORTLAND GENERAL ELECTRIC

GENERAL INFORMATION:
1. TRAFFIC IS UNAFFECTED
2. SIGNAGE AT SITE IS PROPOSED
3. SITE IS UNMANNED AND HANDICAP ACCESS IS NOT REQUIRED

CODE INFORMATION:
1. IBC-2018 INTERNATIONAL BUILDING CODE
2. NEC-2017 NATIONAL ELECTRIC CODE
3. 2019 OREGON STRUCTURAL SPECIALTY CODE
4. 2017 NFPA 58 CODE
5. OCCUPANCY GROUP: U
6. CONSTRUCTION TYPE: II-B

PROJECT INFORMATION CONTINUED

APPLICANT:
MARION COUNTY PUBLIC WORKS
5155 SILVERTON RD NE
SALEM, OR 97305
CONTACT:
BRIAN NICHOLAS
(503) 588-7943
bnicholas@co.marion.or.us

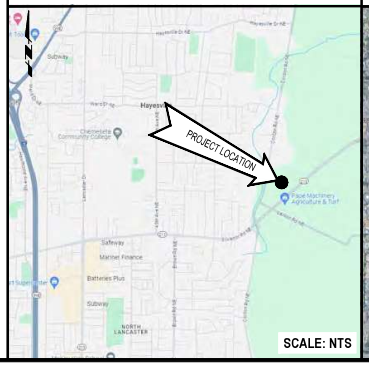
PROJECT MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

CONSTRUCTION MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

ZONING CONTACT:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
ROB HOWE
(503) 387-5331
rob@cushingcivilengineers.com

ENGINEER OF RECORD:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
KENNY MCMANAWAY
(503) 387-5331
kenny@cushingcivilengineers.com

VICINITY MAP



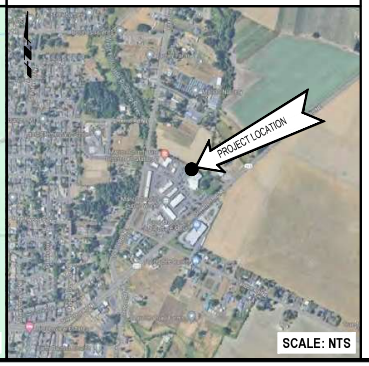
DRIVING DIRECTIONS

FROM MARION COUNTY PUBLIC WORKS BUILDING:

1. SITE EXISTS AT STARTING LOCATION
   0 MIN (0 MI)

EST. TIME: 0 MINS.
EST. MILEAGE: 0 MI

LOCATOR MAP



PROJECT DESCRIPTION

1. PROPOSED MODIFICATION OF AN EXISTING PUBLIC SAFETY COMMUNICATIONS FACILITY FOR MARION COUNTY, OREGON.
2. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT ON EXISTING 148'-6" MONOPOLE TOWER:
   * ANTENNAS W/ ASSOCIATED ANCILLARY EQUIPMENT
3. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT WITHIN EXISTING GROUND SPACE:
   * CHAINLINK FENCE EXTENSION
   * GENERATOR W/ SUB-BASE DIESEL FUEL TANK

THE CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN ELECTRICAL AND MECHANICAL (GENERATOR AND TANK INSTALL, HVAC AND PROPANE GAS PIPING) BUILDING PERMITS AND TO PAY ELECTRICAL AND MECHANICAL BUILDING PERMIT FEES.

OREGON

PROJECT INFORMATION:

MARION COUNTY
MCPW

5155 SILVERTON RD NE
SALEM, OR 97305

	DATE	RELEASE
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PLANS PREPARED BY:

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Civil Engineers

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(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

T-1

NOTE:
THIS IS NOT A SURVEY; ALL EXISTING INFORMATION IS PROVIDED BY MARION COUNTY GIS.

2
EX-1

(EX) CONCRETE PLANTER TO REMAIN, TYP

(EX) PARKING LOT, TYP

(EX) GROUND TRANSFORMER TO REMAIN

(EX) METER MOUNTED ON (EX) UTILITY H-FRAME TO REMAIN

(EX) 7'-0"x13'-1" EQUIPMENT SHELTER TO BE UTILIZED BY MARION COUNTY

(EX) ACCESS GATE TO REMAIN, TYP

(EX) EQUIPMENT PAD TO REMAIN, TYP OF (2)

(EX) H-FRAME TO REMAIN, TYP

(EX) ICE BRIDGE TO REMAIN, TYP

(EX) LIGHT POLE TO REMAIN

(EX) CHAINLINK FENCED COMPOUND TO REMAIN

(EX) ICE BRIDGE TO BE UTILIZED BY MARION COUNTY

(EX) 148'-6" MONOPOLE TO REMAIN

(EX) EQUIPMENT TO REMAIN, TYP

(EX) BUILDING

0 6 12 24
SCALE: 1" = 12'

EXISTING CONDITIONS — 11X17 SCALE: 1" = 24' | 22X34 SCALE: 1" = 12' | 1



SITE PHOTO SCALE: NTS | 2

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
MCPW

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KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER:

EX-1

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.
3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITTING.
4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
8. THE CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.
9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES, THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THE CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO EQUAL OR BETTER NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE OWNERS REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL, SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.
14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROJECT MANAGER WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
16. THIS IS AN ESSENTIAL FACILITY THEREFORE SHALL STRICTLY MEET ALL APPLICABLE CODE AND JURISDICTIONAL REQUIREMENTS.

GENERAL NOTES CONTINUED:

17. THE CONTRACTOR SHALL PERFORM WORK DURING SITE/PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
18. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
21. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE PROJECT MANAGER PRIOR TO STARTING WORK.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (UNO).
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD (UNO).
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1-1/2 IN.
5. A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE (UNO). HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB.
6. INSTALLATION OF CONCRETE EXPANSION AND WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.
7. FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM EQUIPMENT.

SITE WORK NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY UNLESS OTHERWISE REQUIRED TO BE LEFT AS DEFINED BY LAND/PROPERTY OWNER.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, EQUIPMENT SHELTER, GENERATOR, FUEL TANK, TOWER AREAS, AND ADJACENT BUILDINGS, ETC.
3. 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.
4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION. FABRIC USE AS REQUIRED.
5. ALL APPLICABLE LOCATES SHALL BE PERFORMED PRIOR TO ANY EXCAVATION OR SITE GRADING. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.
7. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK..
8. BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TO COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER; GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION:

SIEVE SIZE	PERCENT PASSING
	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

9. BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL, CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE.

SITE WORK NOTES CONTINUED:

10. ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH INDUSTRY STANDARDS AND BE ALIGNED WITH BMP GUIDELINES AS TECHNICALLY APPLICABLE. EACH SITE MUST BE PM APPROVED BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED.
11. IF INADVERTENT DISCOVERIES OF NATIVE AMERICAN CULTURAL MATERIALS OR HUMAN REMAINS ARE MADE DURING CONSTRUCTION, ALL WORK SHOULD CEASE AND POTENTIALLY AFFECTED TRIBES, AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE, SHOULD BE NOTIFIED IMMEDIATELY.

TOWER/POLE NOTES:

1. ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.
2. ALL HARDWARE (NUTS AND BOLTS) BE TIGHTENED AND TORQUED IN ACCORDANCE WITH THE TOWER MANUFACTURER'S AND STRUCTURAL ENGINEER'S SPECIFICATIONS.
3. VERIFICATION THAT THE TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
4. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ATTENTION (OREGON SITES ONLY):

CALL 1-800-332-2344 48 HOURS BEFORE YOU DIG, OREGON LAW REQUIRES YOU TO FOLLOW OAR 952-001-0010 THRU 952-001-0090. COPIES ARE AVAILABLE AT THE OREGON UTILITY NOTIFICATION CENTER 503-232-1987

DESIGN LOADS:

ROOF SNOW LOAD DATA -	GROUND SNOW LOAD:	68 PSF
	FLAT-ROOF SNOW LOAD:	N/A
	SNOW EXPOSURE FACTOR:	N/A
	SNOW LOAD IMPORTANCE FACTOR:	N/A
	THERMAL FACTOR:	N/A
WIND DESIGN DATA -	ULTIMATE DESIGN WIND SPEED:	107 MPH
	RISK CATEGORY:	IV
	WIND EXPOSURE:	C
	INTERNAL PRESSURE COEFFICIENT:	N/A
	DESIGN WIND PRESSURES;	
	WIND LOAD HORIZONTAL (MWFRS):	N/A
	WIND LOAD (UPLIFT) (MWFRS):	N/A
EARTHQUAKE DESIGN DATA -	RISK CATEGORY:	IV
	SEISMIC IMPORTANCE FACTOR:	N/A
	MAPPED SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_s:	0.91
	S_1:	0.37
	SITE CLASS:	D
	DESIGN SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_{DS}	0.78
	S_{D1}	0.53
	SEISMIC DESIGN CATEGORY:	D
	BASIC SEISMIC FORCE-RESISTING SYSTEM:	N/A
	DESIGN BASE SHEAR:	N/A
	SEISMIC RESPONSE COEFFICIENT:	N/A
	RESPONSE MODIFICATION COEFFICIENT:	N/A
	ANALYSIS PROCEDURE USED:	N/A
GEOTECHNICAL INFORMATION -	ALLOWABLE BEARING CAPACITY:	N/A

INFORMATION OBTAINED FROM ASCE 7 HAZARD TOOL

SYMBOLS LEGEND

- 1 — REVISION
- 2 — KEY NOTE DETAIL
- 3 / C-4 — REFERENCE ELEVATION
- A / C-3 — SECTION REFERENCE
- ELEVATION DATUM POINT
- CHAINLINK FENCE
- CEDAR FENCE
- PROPANE (LPG)
- UNDERGROUND POWER (P)
- OVERHEAD POWER (OHP)
- TELCO (T)
- POWER/TELCO (T/P)
- GAS (G)
- WATER (W)
- COAX (COAX)
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- SUBJECT PROPERTY LINE

ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	MET, MTL	METAL
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MGR	MANAGER
AGL	ABOVE GRADE LEVEL	MIN	MINIMUM
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	N	NORTH
		NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	OC, o/c	ON CENTER
BMR	BASE MOBILE RADIO	OD	OUTSIDE DIAMETER
B/S	BUILDING STANDARD	OPG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	OHP	OVERHEAD POWER
CONC	CONCRETE	UGP	UNDRGRND POWER
CONST	CONSTRUCTION	OHT	OVERHEAD TELCO
CONT	CONTINUOUS	UGT	UNDRGRND TELCO
DBL	DOUBLE	PR	PAIR
DIA, Ø	DIAMETER	PROJ	PROJECT
DIAG	DIAGONAL	PROP	PROPERTY
DIM	DIMENSION	P	PROPOSED
DN	DOWN	PT	PRESSURE TREATED
DTL, DETL	DETAIL	REQ'D	REQUIRED
DWG	DRAWING	RM	ROOM
E	EAST	R.O.	ROUGH OPENING
EA	EACH	S	SOUTH
EL, ELEV	ELEVATION	SHT	SHEET
ELECT	ELECTRICAL	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ	SQUARE
E.W.	EACH WAY	SS	STAINLESS STEEL
EX	EXISTING	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FIN	FINISH	SUSP	SUSPENDED
FLUOR	FLUORESCENT	S.V.	SHEET VINYL
FLR	FLOOR	THRU	THROUGH
FT	FOOT	TNND	TINNED
GA	GAUGE	T.O.C.	TOP OF CONCRETE
GALV	GALVANIZE(D)	T.O.M.	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GRND	GROUND	U.N.O.	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
GYP BD	GYPSUM BOARD	VIF	VERIFY IN FIELD
HARDWD	HARDWOOD	VT	VINYL TILE
HORIZ	HORIZONTAL	W	WEST
HR	HOUR	W/	WITH
HT	HEIGHT	WIN	WINDOW
HVAC	HEATING, VENTING AND AIR CONDITIONING	W/O	WITHOUT
		WP	WATERPROOF
I.D.	INSIDE DIA.	∠	ANGLE
IN	INCH	&	AND
INFO	INFORMATION	℄	CENTER LINE
INSUL	INSULATION	℞	PROPERTY LINE
INT	INTERIOR	@	AT
LB(S)	POUND(S)	#	NUMBER
LNA	ANTENNA AMPLIFIER		
MAX	MAXIMUM		
MECH	MECHANICAL		

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
MCPW

5155 SILVERTON RD NE
SALEM, OR 97305

	DATE	RELEASE
	07-01-24	SITE SKETCH
	10-29-24	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-26-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

Cushing Civil Engineers
12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

G-1



OVERALL SITE PLAN | 11X17 SCALE: 1" = 120' | 22X34 SCALE: 1" = 60' | 1

Marion County
OREGON

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MCPW

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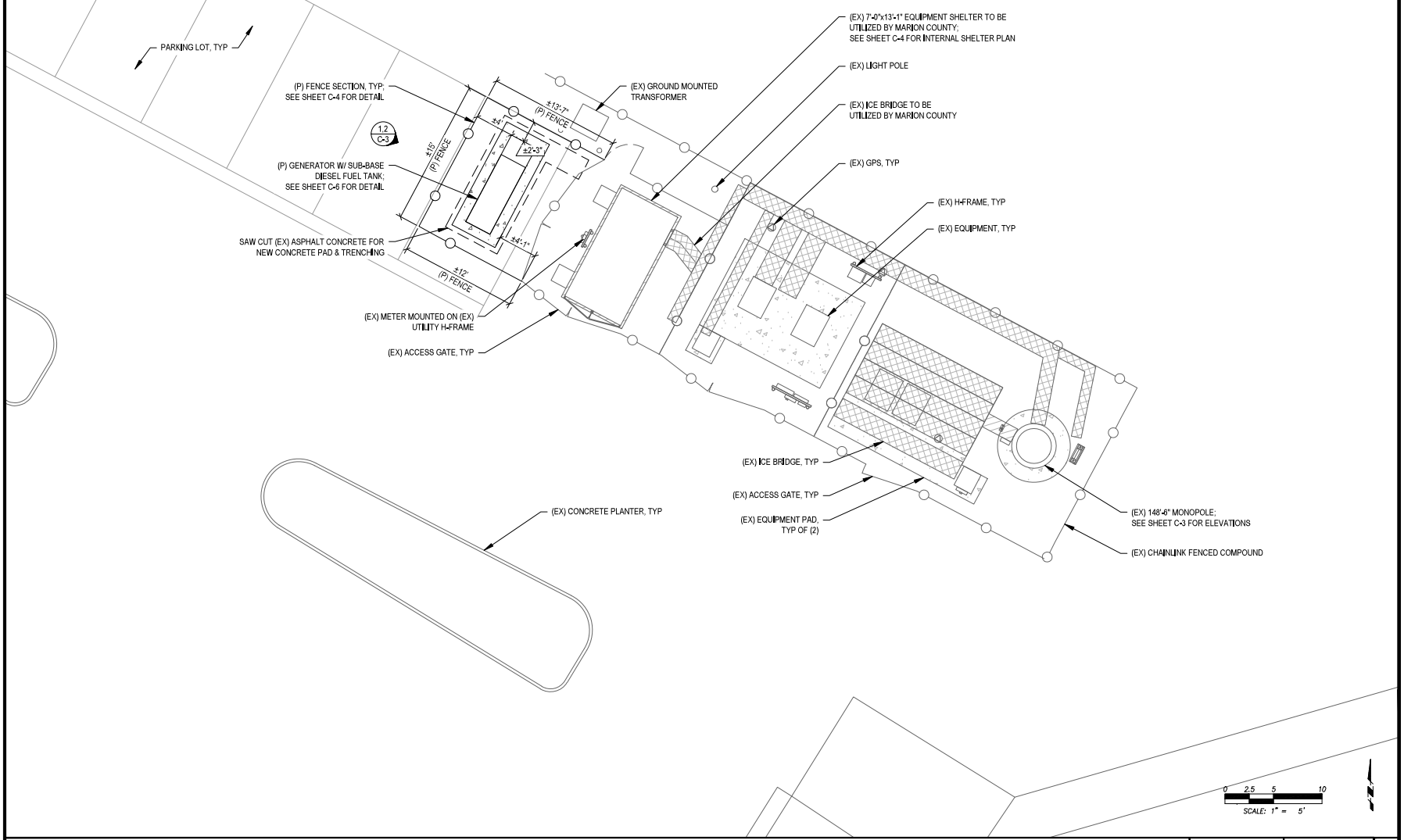
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1

NOTES:
1. TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL DESIGN BY OTHERS.
2. THIS IS NOT A SURVEY ALL EXISTING INFORMATION IS PROVIDED BY GIS & SITE WALK NOTES.
3. PROPOSED AND EXISTING ANTENNAS NOT SHOWN FOR CLARITY.



ENLARGED SITE PLAN | 11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

Marion County OREGON

PROJECT INFORMATION:

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MCPW

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

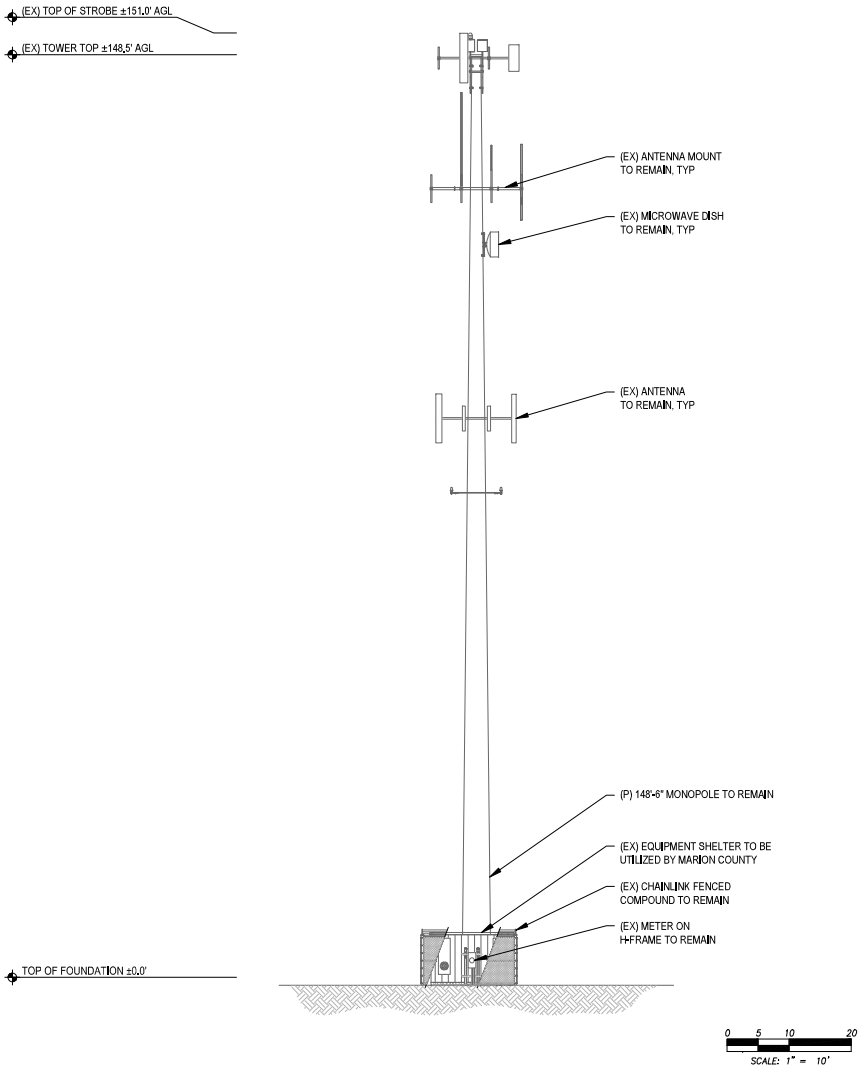
RENEWAL DATE 12/31/26

SHEET TITLE:

ENLARGED SITE PLAN

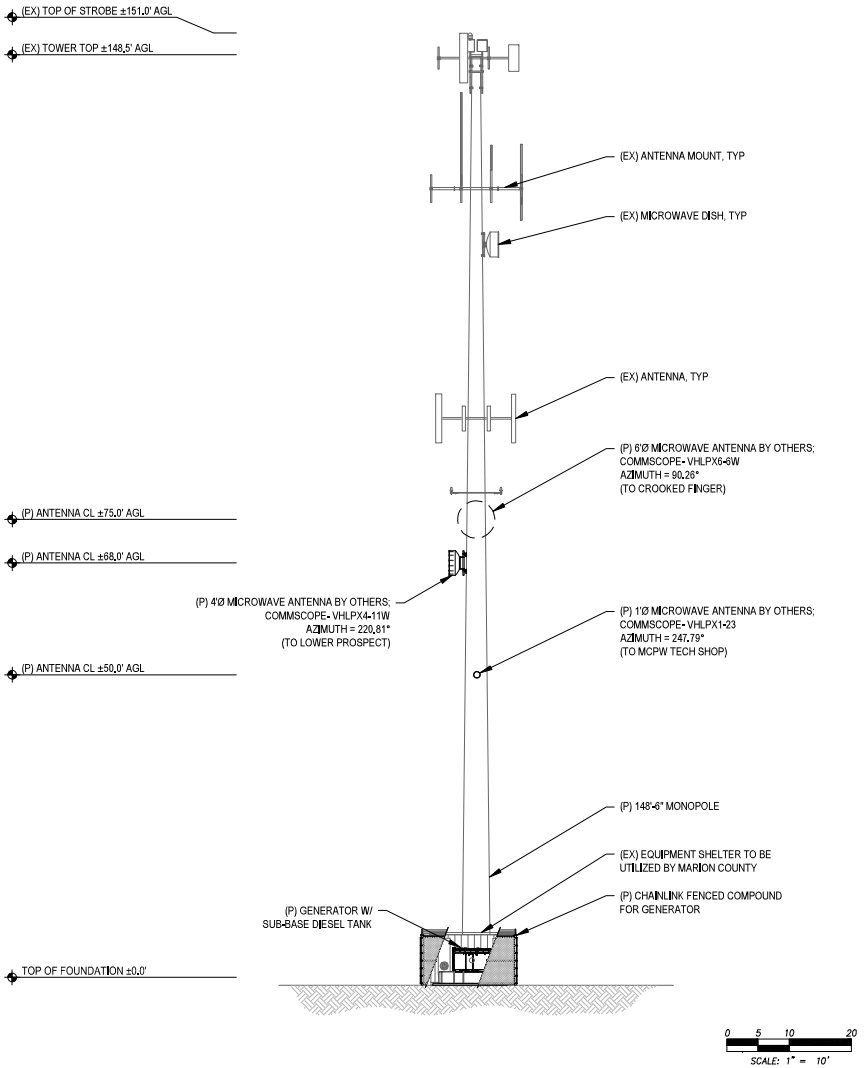
SHEET NUMBER:

C-2



EXISTING NORTHWEST ELEVATION | 11X17 SCALE: 1" = 20' | 22X34 SCALE: 1" = 10' | 1

NOTES:
1. TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL ANALYSIS REPORT FOR DETAIL.
2. LOADING INFORMATION PROVIDED BY TAIT COMMUNICATIONS.



PROPOSED NORTHWEST ELEVATION | 11X17 SCALE: 1" = 20' | 22X34 SCALE: 1" = 10' | 2

Marion County OREGON

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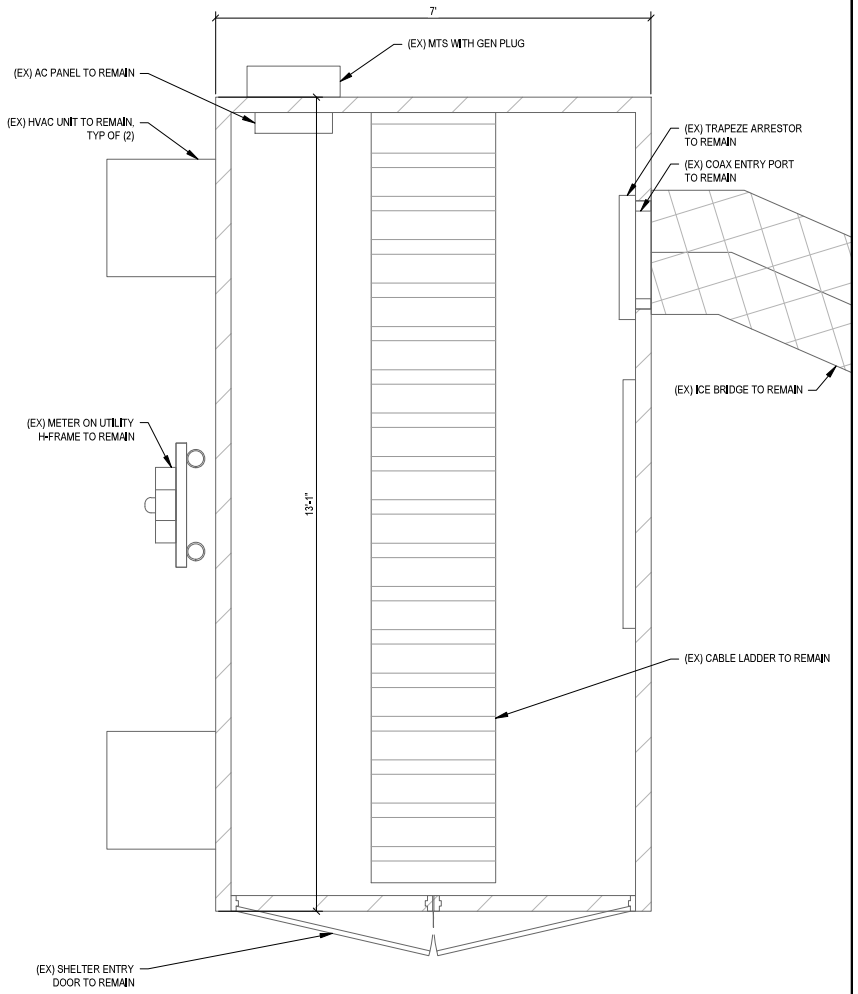
RENEWAL DATE 12/31/26

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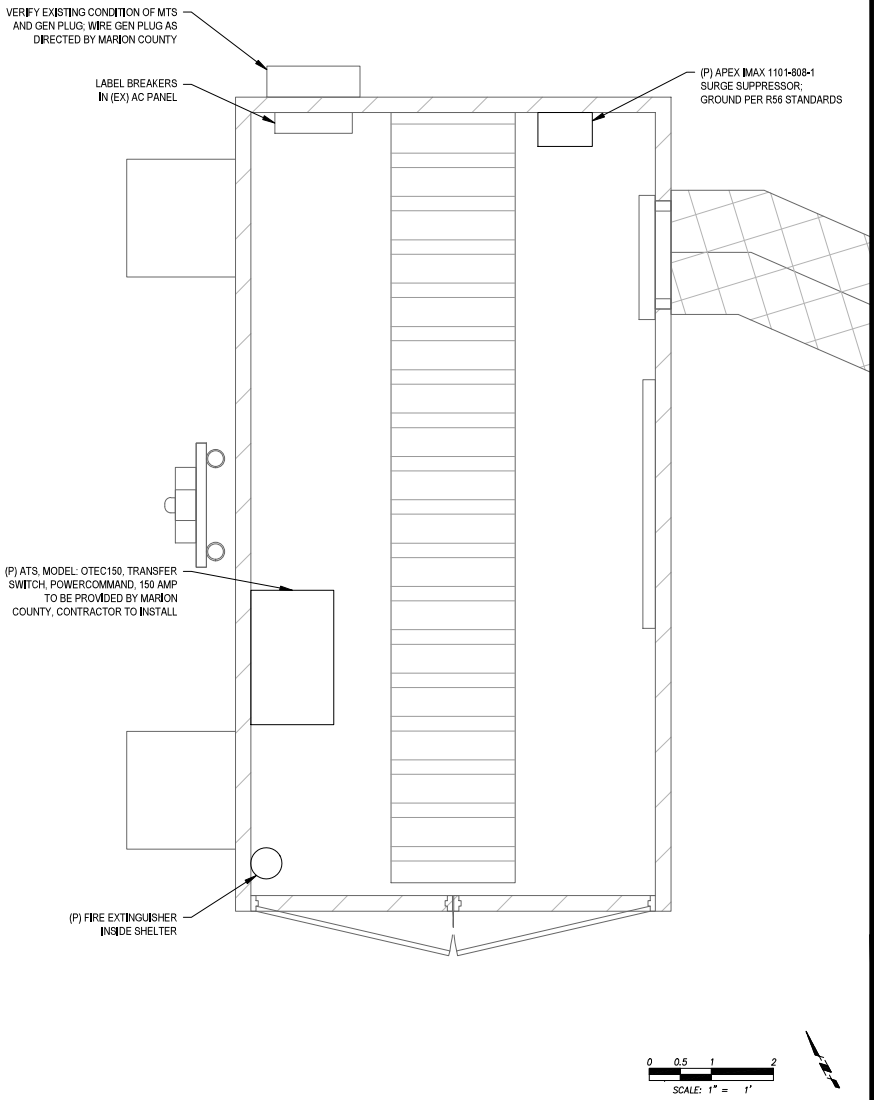
ELEVATIONS

SHEET NUMBER:

C-3



INTERIOR SHELTER PLAN - EXISTING | 11X17 SCALE: 1" = 2' | 22X34 SCALE: 1" = 1' | 1



INTERIOR SHELTER PLAN - PROPOSED | 11X17 SCALE: 1" = 2' | 22X34 SCALE: 1" = 1' | 2

Marion County
OREGON

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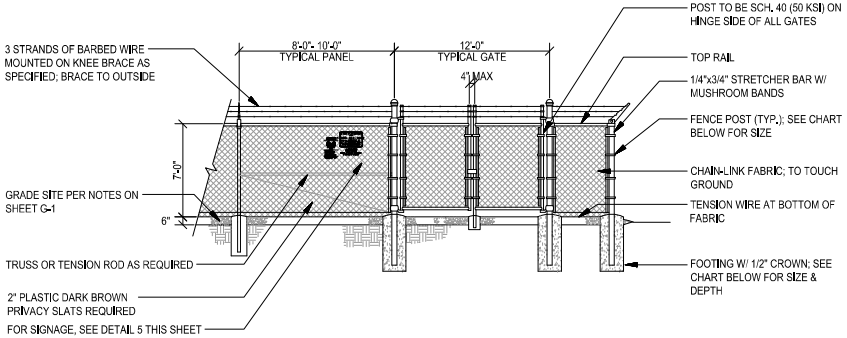
RENEWAL DATE 12/31/26

SHEET TITLE:

INTERIOR SHELTER LAYOUT

SHEET NUMBER:

C-4



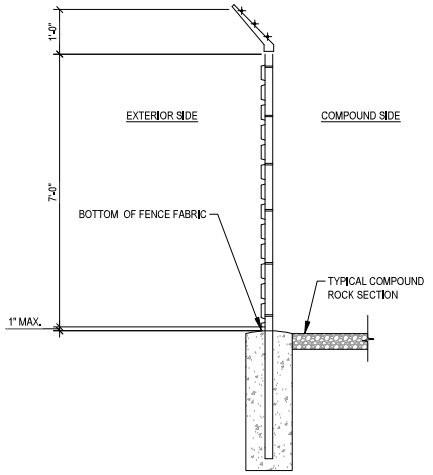
FENCE & GATE NOTES:

1. GATE FRAME-1-7/8" OD, TOP & BRACE RAIL-1-5/8" OD, SCH. 40 (50 KSI) ASTM-F1083.
2. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH FABRIC; FABRIC TO TOUCH GRAVEL BASE.
3. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL.
4. BARBED WIRE: 12" (3) STRAND.
5. GATE LATCH: SEE DETAIL 3 THIS SHEET; VERIFY WITH PROPERTY OWNER.

8' HIGH GATE/FENCE			
POST TYPE	POST DIAMETER	FOOTING SIZE	NOTES:
LINE POST	3.5"Ø	12"Øx33"	1. ALL POSTS: SCH. 40 (50 KSI) ASTM-F1083 2. ALL FENCING TO BE ENGINEERED BY FENCING MANUFACTURER & APPROVED BY PROJ. MGR. FENCE MANUFACTURER IS TO VERIFY ADEQUACY OF TABULATED POST & FOOTING SIZES
CORNER POST	4"Ø	16"Øx48"	
GATE POST	4"Ø	16"Øx48"	

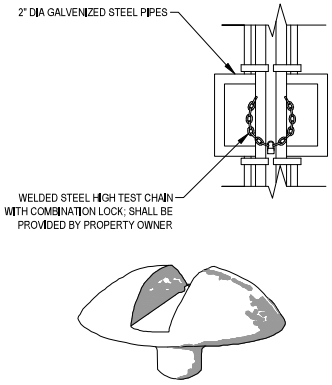
TYPICAL FENCE ELEVATION

SCALE: NTS | 1



TYPICAL FENCE SECTION

SCALE: NTS | 2



CONCRETE MUSHROOM GATE STOP INSTALLED ABOVE THE FINAL GRAVELED GRADE (INSTALL PER MANUFACTURER'S INSTRUCTIONS)

GATE LOCK & CENTER STOP

SCALE: NTS | 3

FENCING NOTES:

1. GATE POST, CORNER, END, OR PULL POST 4" NOMINAL (4" O.D.) SCHEDULE 40 (50 KSI) PIPE. FOR GATE WIDTHS UP TO 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2-3/8" O.D. 3.65 LBS/LIN FT. ASTM-F1083.
3. TOP RAIL AND BRACE RAIL: 1-1/2" (1.9" O.D.) PIPE 2.72 LBS/LIN FT PER ASTM-F1083. INSTALL BRACE AT ALL CORNER LOCATIONS AND ADJACENT TO GATES.
4. GATE FRAME: 1-1/2" (1.9 O.D.) 2.72 LBS/LIN FT. ASTM-F1083.
5. FABRIC SHALL BE TWO-INCH CHAINLINK MESH NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO ASTM A-392 CLASS 1.
6. TIE WIRE: MINIMUM 11Ga. GALVANIZED STEEL. PROVIDE A SINGLE WRAP OF FABRIC, TIE AT POSTS, RAILS, AND AT TENSION WIRE BY HOG RINGS. MAXIMUM SPACING 24" O.C.
7. TENSION WIRE: MINIMUM 7 Ga. GALVANIZED STEEL.
8. U.N.O. BARBED WIRE: DOUBLE STRAND 12 Ga. 1/2" O.D. TWISTED WIRE TO MATCH W/ FABRIC, 14 Ga. 4PT. BARBS SPACED ON APPROX. 5" CENTERS.
9. U.N.O. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
10. U.N.O. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
11. PROVIDE TWO 6 FOOT WIDE OUT SWINGING GATES, (UNLESS NOTED OTHERWISE). NO PERSONNEL GATES ARE REQUIRED (UNLESS AS DIRECTED BY THE PROPERTY OWNER). GATES SHALL BE ABLE TO LOCK.
12. U.N.O. GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
13. GATE FRAMES SHALL HAVE A FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
14. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTOR WITH MODEL 6409, 180-DEGREE ATTACHMENT OR APPROVED EQUAL.
15. GATE LATCH: 1-3/8" O.D, PLUNGER ROD W/ MUSHROOM TYPE CATCH.
16. A 6" X 1/2" DIAMETER EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
17. STRETCHER BARS SHALL BE 3/16" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
18. U.N.O, ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM.
19. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
20. OTHER HARDWARE MAY INCLUDE BUT NOT BE LIMITED TO TIE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
21. U.N.O, WHERE THE USE OF CONCERTINA HAS BEEN SPECIFIED, 24" DIAMETER COIL, BARBED TAPE, STAINLESS STEEL, CYCLONE FENCE MODEL G9P TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX (6) BARBED WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST.
22. U.N.O, ALL CHAINLINK FENCING COMPONENTS MUST BE HOT DIPPED GALVANIZED.
23. WHEN IN USE, PRIVACY SLATS TO BE A NEUTRAL COLOR.

GENERAL FENCE NOTES

SCALE: NTS | 4



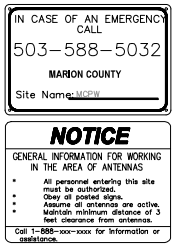
SIGN NOTES:
1. SIGN MATERIAL: 18GA ALUMINUM
2. LETTERING COLOR = BLACK
3. BACKGROUND COLOR = WHITE / RED



SIGN NOTES:
1. SIGN MATERIAL: 18GA ALUMINUM
2. LETTERING COLOR = BLACK / WHITE
3. BACKGROUND COLOR = WHITE / BLUE



SIGN NOTES:
1. SIGN MATERIAL: 18GA ALUMINUM
2. LETTERING COLOR = BLACK
3. BACKGROUND COLOR = YELLOW



SIGN DETAILS

SCALE: NTS | 5

NOT USED

SCALE: NTS | 6

Marion County OREGON

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

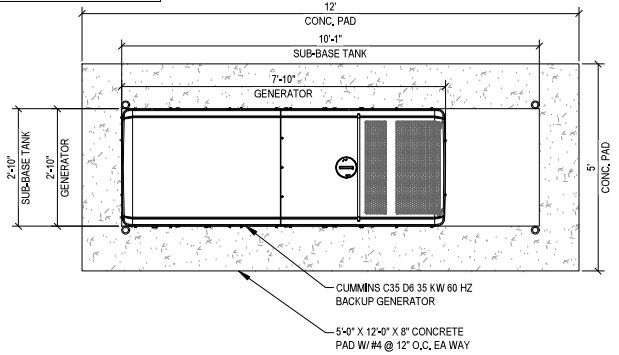
SHEET TITLE:

COMPOUND DETAILS

SHEET NUMBER:

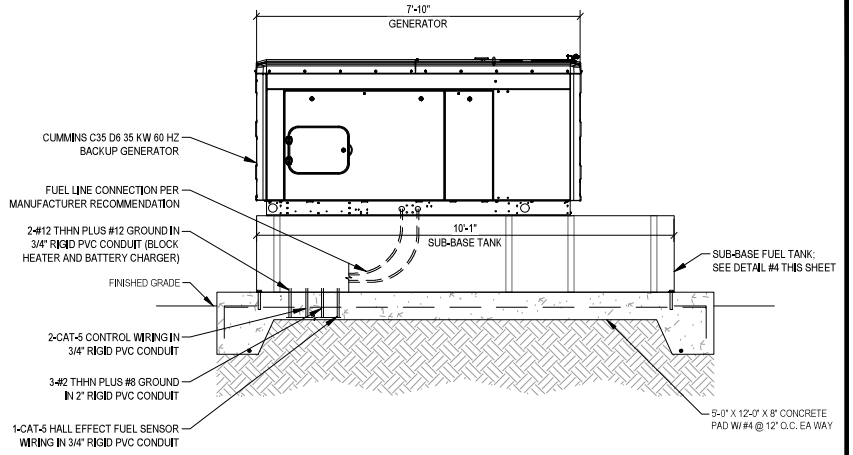
C-5

NOTES:
1. DIESEL GENERATOR MODEL C35 D6, 35 KW.
2. SEE LATEST MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

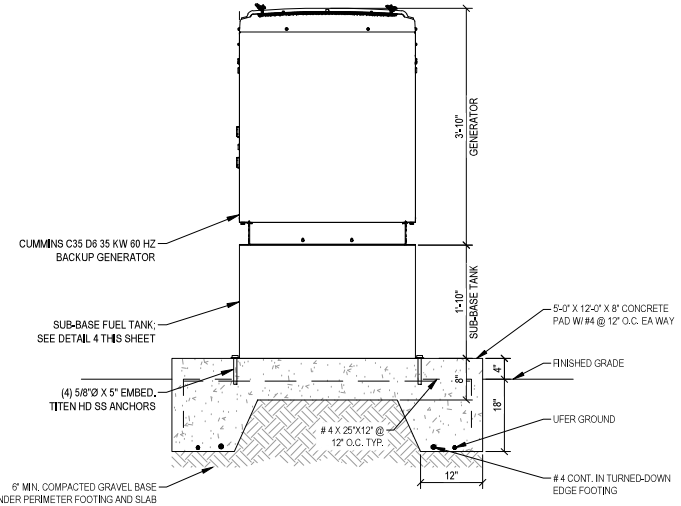


DIESEL GENERATOR FUEL SYSTEM				
SUB-BASE FUEL TANK				
CAPACITY	L X W XH	DRY WEIGHT	FUEL WEIGHT	TOTAL WEIGHT
195 GAL	121" X 34" X 22.1"	879 LBS	1,384.5 LBS	2,263.5 LBS
NOTE: FUEL TANK IS DOUBLE-WALL UL-142 LISTED				

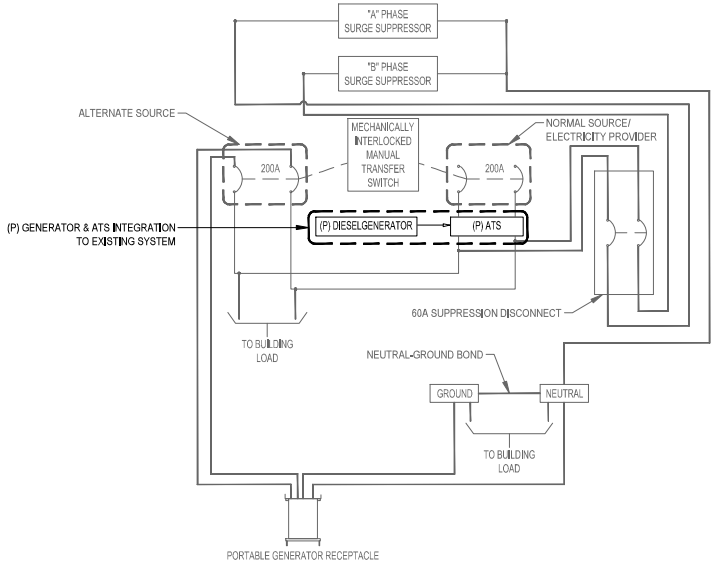
GENERATOR PLAN SCALE: NTS 1



GENERATOR RIGHT SIDE ELEVATION SCALE: NTS 2



GENERATOR EXHAUST SIDE ELEVATION SCALE: NTS 3



MTS WIRING DIAGRAM SCALE: NTS 4

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
MCPW

5155 SILVERTON RD NE
SALEM, OR 97305

	DATE	RELEASE
	07-01-24	SITE SKETCH
	10-29-24	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-26-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

Cushing
Civil Engineers
12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

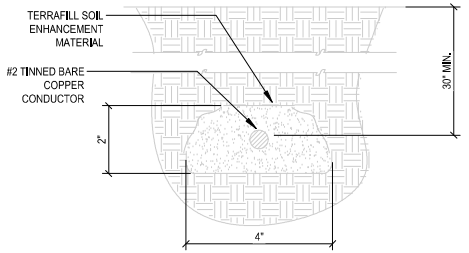
DIESEL GENERATOR DETAILS

SHEET NUMBER:

C-6

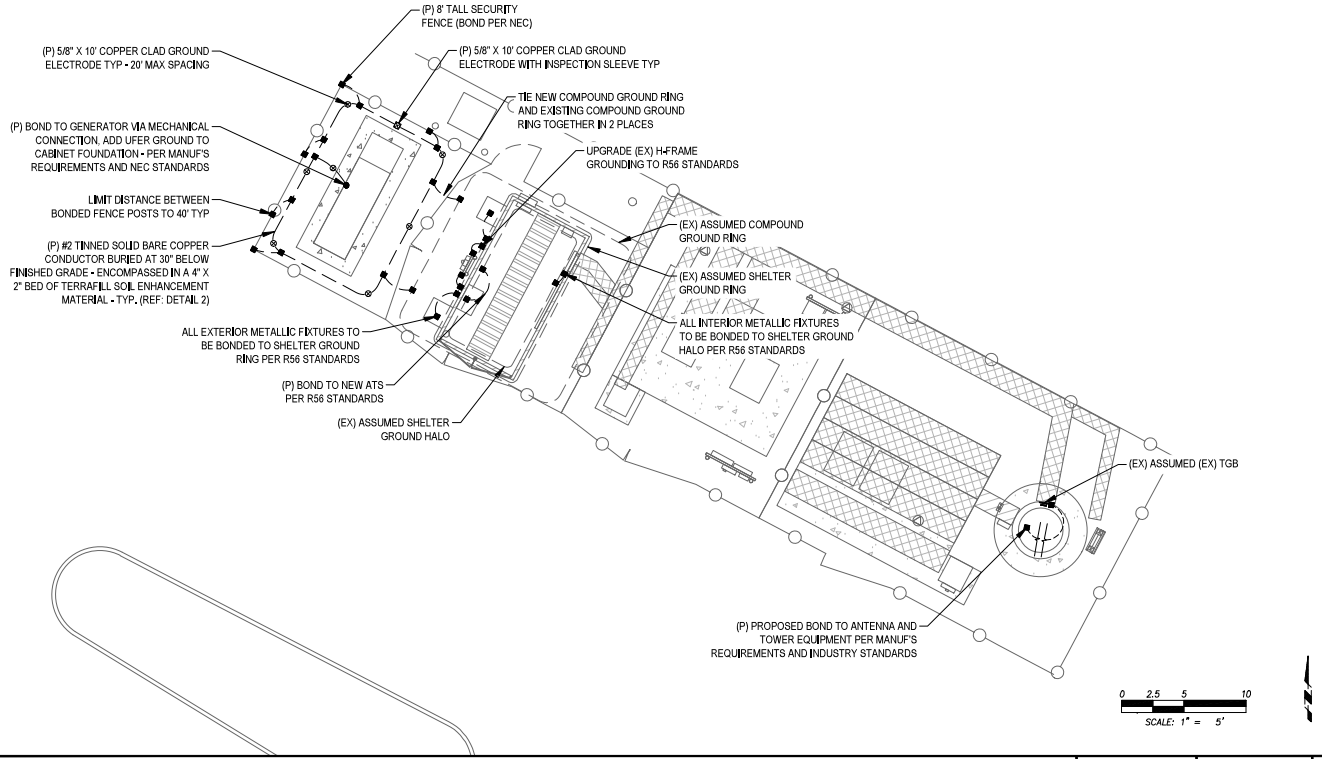
NOT USED

SCALE: NTS | 3



SOIL ENHANCEMENT DETAIL

SCALE: NTS | 2



SITE COMPOUND GROUNDING PLAN

11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

GENERAL NOTES:

1. ALL INSTALLATIONS ARE TO BE FIELD VERIFIED.
2. GROUND CONDUCTORS ARE TO BE BURIED AT A MINIMUM 30" BELOW GRADE OR 6" BELOW FREEZE LINE, WHICHEVER IS GREATER.
3. ALL BELOW GRADE GROUNDING CONDUCTORS ARE TO BE ENCOMPASSED IN A 2" X 4" BED OF SOIL ENHANCEMENT MATERIAL.
4. BONDS TO FENCE POSTS ARE TO BE MADE AT 12" ABOVE GRADE WHERE APPLICABLE.
5. NO CONDUCTOR SHALL HAVE A BEND IN RADIUS OF LESS THAN 12" AND SHALL NOT EXCEED 90 DEGREES.
6. TERRADYNE ELECTROLYTIC GROUND ELECTRODES ARE NOT TO SHARE THE SAME TRENCH AS GROUNDING CONDUCTOR, NOR RUN IN A PARALLEL PATH TO THE CONDUCTOR.
7. ALL GROUND SYSTEMS ARE TO BE MADE COMMON.
8. ALL BONDS ARE TO BE COATED WITH ANTI-OXIDATION COMPOUND.
9. WHERE STANDARD GROUND ELECTRODES ARE UNABLE TO BE DRIVEN, 12" X 12" X 1/8" COPPER GROUND PLATES SHALL BE INSTALLED 30" BELOW FINISHED GRADE & ENCOMPASSED IN 50LBS OF TERRAFILL SOIL ENHANCEMENT MATERIAL.

LEGEND:

- TERRADYNE TG-20L-H36-2T-36-4F-P SERIES ELECTRODE W/ INSPECTION WELL
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE WITH INSPECTION SLEEVE
- #2 TINNED SOLID COPPER CONDUCTOR

Marion County OREGON

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REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

SITE GROUNDING PLAN & DETAILS

SHEET NUMBER:

E-1

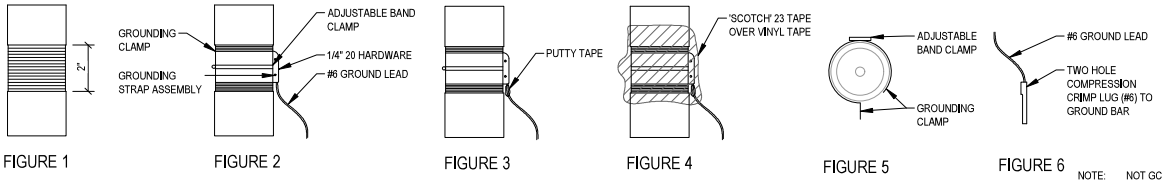
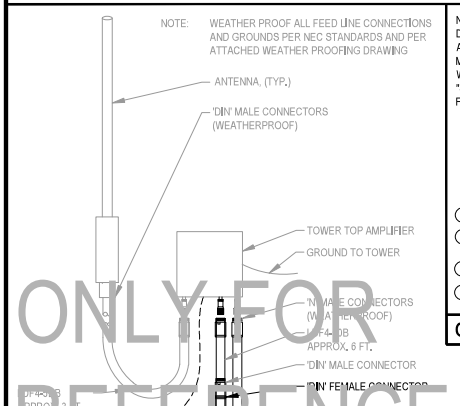


FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4 FIGURE 5 FIGURE 6

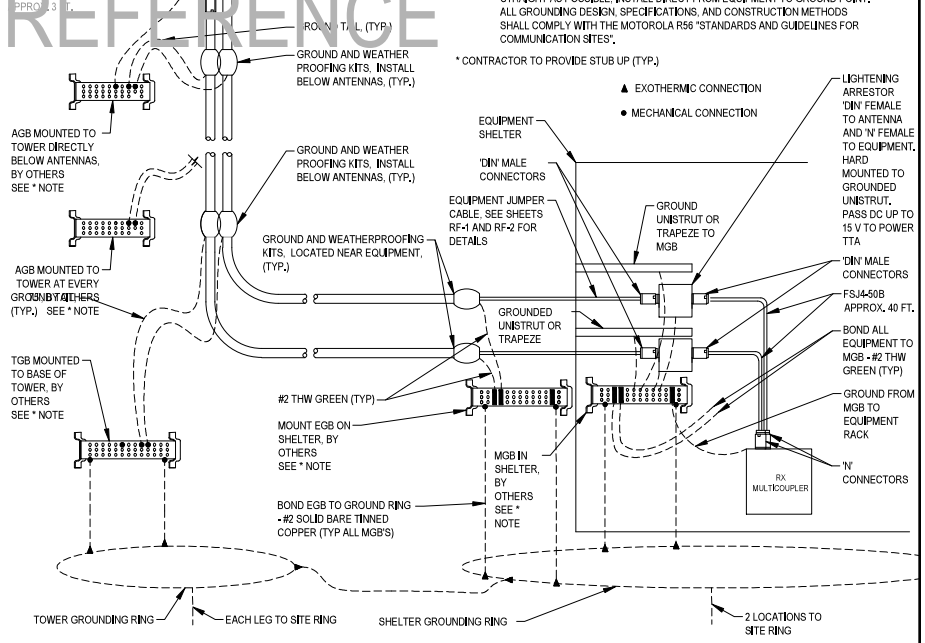
NOTE: NOT GC

FEED LINE CABLE GROUNDING

SCALE: NTS | 2



ONLY FOR REFERENCE

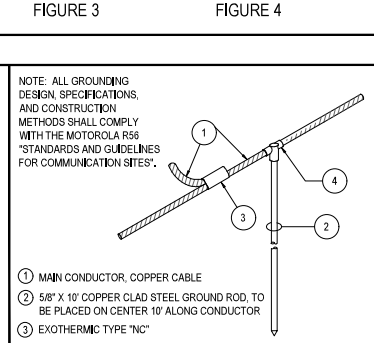


NOTE: BENDS SHOWN ON GROUND TAILS AND GROUND CONNECTION WIRES ARE FOR ILLUSTRATION PURPOSES ONLY. AVOID EXCESSIVE BENDS. WIRES TO BE AS STRAIGHT AS POSSIBLE; INSTALL DIRECT FROM EQUIPMENT TO GROUND POINT. ALL GROUNDING DESIGN, SPECIFICATIONS, AND CONSTRUCTION METHODS SHALL COMPLY WITH THE MOTOROLA R56 "STANDARDS AND GUIDELINES FOR COMMUNICATION SITES".

* CONTRACTOR TO PROVIDE STUB UP (TYP.)

STANDARD RX GROUNDING SCHEMATICS

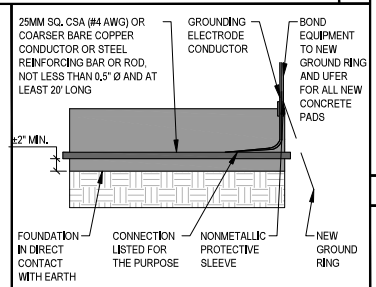
SCALE: NTS | 1



① MAIN CONDUCTOR, COPPER CABLE
② 5/8" X 10' COPPER CLAD STEEL GROUND ROD, TO BE PLACED ON CENTER 10' ALONG CONDUCTOR
③ EXOTHERMIC TYPE "NC"
④ EXOTHERMIC TYPE "GT"

GROUND ROD DETAIL

SCALE: NTS | 4



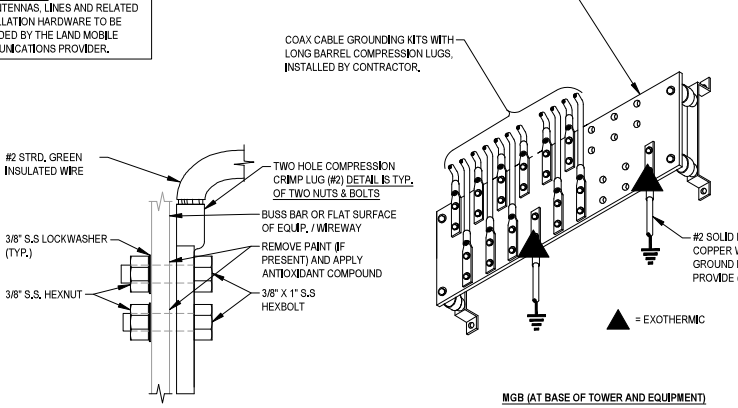
NOTE: FOR REFERENCE ONLY

UFER DETAIL

SCALE: NTS | 5

NOTES
1. TYP. FOR ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.
2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LACQUER OR COLD GALVANIZING SPRAY.
3. GROUND LEADS TO BE EXOTHERMIC WELDED TO GROUND RING.
4. AGB IS BONDED TO TOWER.

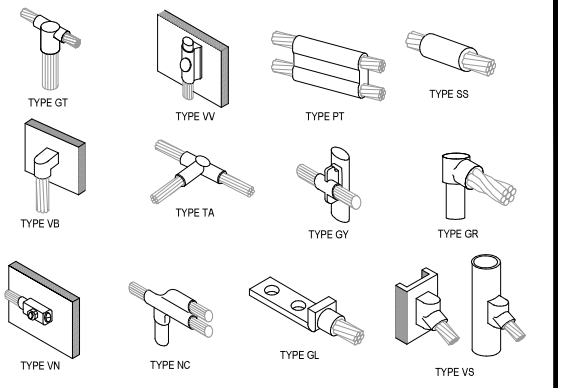
GENERAL NOTES
ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.



MGB (AT BASE OF TOWER AND EQUIPMENT)

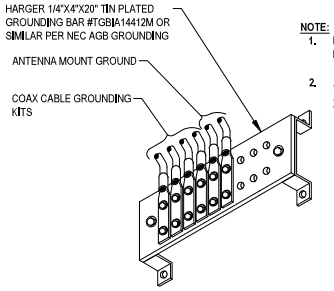
GROUND BAR DETAILS

SCALE: NTS | 6



TYPICAL EXOTHERMIC CONNECTION DETAILS

SCALE: NTS | 3



NOTE:
1. DO NOT BOND AIR TERMINAL OR LIGHTNING ROD TO AGB
2. AGB GROUND BAR TO BE PLATED. AGB TO BE BONDED DIRECTLY TO TOWER.

AGB (AT ANTENNAS)

Marion County OREGON

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LICENSURE:

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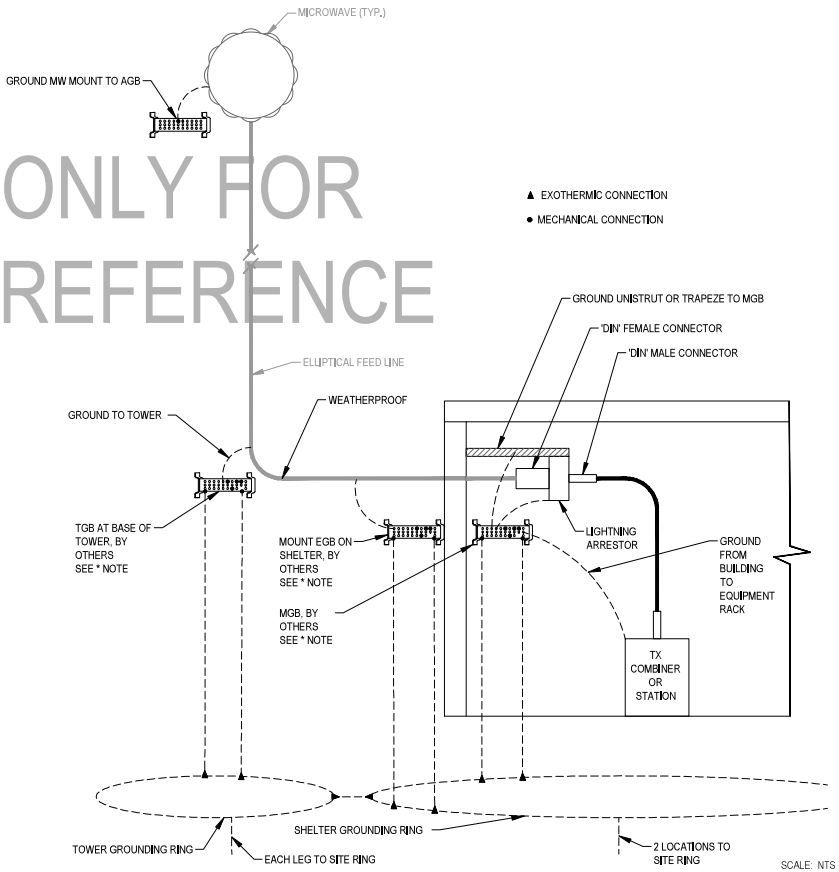
RENEWAL DATE 12/31/26

SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER:

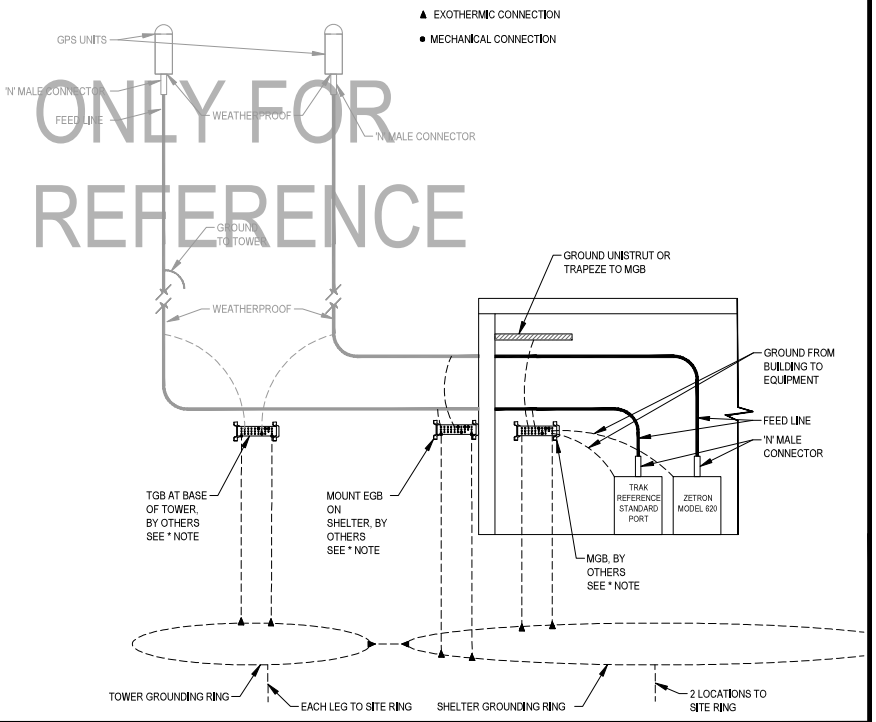
E-2



ONLY FOR REFERENCE

TYPICAL MICROWAVE ANTENNA GROUNDING SCHEMATICS | 1

NOTE:
TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL REPORT BY OTHERS.



ONLY FOR REFERENCE

TYPICAL GPS ANTENNA GROUNDING SCHEMATICS SCALE: NTS | 2

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY MCPW

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SALEM, OR 97305

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REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

GROUNDING DETAILS II

SHEET NUMBER:

E-3

SITE INFORMATION	
SITE NAME	**MCPW**

LOCATION INFORMATION			
COUNTY	MARION COUNTY		
STREET ADDRESS	5155 SILVERTON RD NE		
CITY	SALEM	STATE	OR
ZIP CODE	97305		
LATITUDE (DEC.)/(DEG)	44.975200 / 44° 58'30.7" N		
LONGITUDE (DEC.)/(DEG)	-122.955210 / 122°57'18.8" W		

TOWER INFORMATION			
STRUCTURE	MONOPOLE	TOWER MANUFACTURER	-
TOWER OWNER	MCPW	SERIAL/MODEL #	-
GROUND ELEVATION	+200'	# OF APPURTENANCE	-
# OF LEGS	-	HIGHEST POINT W/ ANT	-
TOWER HEIGHT W/O ANT	148.5'		

#	Description	Port Number	Length (ft)	Orientation	Status	Ant. Weight (lb)	Centerline Elevation	Top Weight (lb)	Antenna Count	Jumper Count	Mount	Transmission Line Quantity
1	Microwave - Crooked Finger	VHLP6-6W	6.0	E	New	72	75	78	90.26	90.26	Standard w/ tieback	EW63
2	Microwave - MCPW Tech Shop	VHLPX1-23	1.0	SW	New	50	50	51	247.79	247.79	Standard w/ tieback	EW220
3	Microwave - Lower Prospect	VHLP4-11W	4.0	SW	New	66	68	70	220.81	220.81	Standard w/ tieback	EW90
4	Panels-1	4 panels	8.0	S	Existing	86	96	94			Standard to platform	
5	Panels-2	4 panels	8.0	NW	Existing	86	96	94			Standard to platform	
6	Panels-3	4 panels	8.0	NE	Existing	86	96	94			Standard to platform	
7	Omni-1		2.0	W	Existing	132	133	134			Standard to platform	
8	Omni-2		2.0	W	Existing	132	133	134			Standard to platform	
9	Omni-3		2.0	W	Existing	132	133	134			Standard to platform	
10	Microwave-1		2.0	W	Existing	131	132	133			Standard to platform	
11	Omni-4		2.0	NW	Existing	132	133	134			Standard to platform	
12	Panel-4		1.0	NW	Existing	132	132	133			Standard to platform	
13	Microwave-2		2.0	NW	Existing	131	132	133			Standard to platform	
14	Dipole-1	4 element	5.0	SW	Existing	135	137	140			Standard to platform	
15	Microwave-3		2.0	SW	Existing	130	131	132			Standard to platform	
16	Omni-5		2.0	SW	Existing	#VALUE!	Crooked Finger	#VALUE!			Standard to platform	
17	Dipole-2		5.0	SW	Existing	#VALUE!	Crooked Finger	#VALUE!			Standard to platform	
18	Microwave-4		4.0	NE	Existing	118	120	122			Standard to platform	
19	Panels-5		8.0	NE	Existing	149	153	157			Standard to platform	
20	Panels-6		8.0	SE	Existing	149	153	157			Standard to platform	
21	Panels-7		8.0	SW	Existing	149	153	157			Standard to platform	

= estimated value based on survey documentation and photos

NOTE:

INFORMATION BASED ON TAIT COMMUNICATIONS' DOCUMENT DATED 08/13/2025 PROVIDED BY MARION COUNTY.

PROVISIONAL

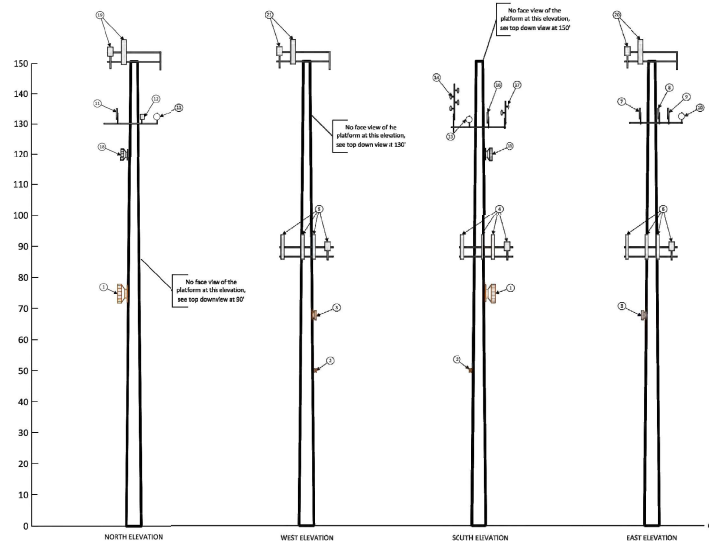
tait communications

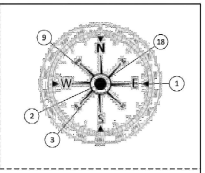
Marion County, OR
700 MHz
P25 Phase II

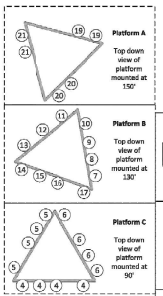
Date	8/13/2025
Drawn	RCA
Checked	-

FILE: marion county-or_public works.vwd

Public Works
Appurtenance Chart







PROVISIONAL

tait communications

Marion County, OR
700 MHz
P25 Phase II

Date	8/13/2025
Drawn	RCA
Checked	-

FILE: marion county-or_public works.vwd

Public Works
Tower Plan

Marion County
OREGON

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OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES I

SHEET NUMBER:

RF-1.0

VHLPX6-6W/B

Base Product



1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 5.925–7.125 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	1
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	1.8 m | 6 ft

Electrical Specifications

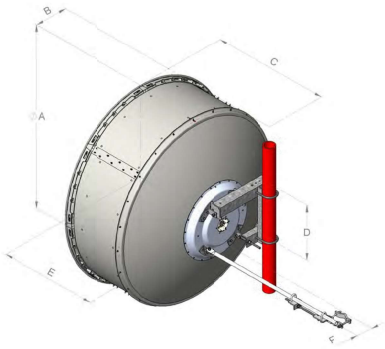
Operating Frequency Band	5.925 – 7.125 GHz
Gain, Low Band	38.5 dBi
Gain, Mid Band	39.3 dBi
Gain, Top Band	40.1 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.8 °
Beamwidth, Vertical	1.8 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7139B
Electrical Compliance	Brazil Anatel Class 3 | Canada SRSP 305.9 Part A | Canada SRSP 306.4 Part A | ETSI 302 217 Class 3 | US FCC Part 101A

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VHLPX6-6W/B

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	A	B	C	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	10670 N | 2,398.712 lbf
Angle α for MT Max	-120 °
Side Force (FS)	5286 N | 1,188.34 lbf
Twisting Moment (MT)	4752 N-m | 42,058.742 in lb
Zcg without Ice	363 mm | 14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	543 mm | 21.378 in
Weight with 1/2 in (12 mm) Radial Ice	234 kg | 515.881 lb

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NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

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83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES II

SHEET NUMBER:

RF-1.1

VHLPX4-11W/A

Base Product



1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.125–11.700 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	1 inboard
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	1.2 m	4 ft

Electrical Specifications

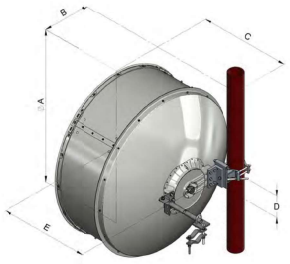
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	40.2 dBi
Gain, Mid Band	40.7 dBi
Gain, Top Band	41 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.6 °
Beamwidth, Vertical	1.6 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7185A
Electrical Compliance	Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7 Part A | Canada SRSP 310.7 Part B | ETSI 302 217 Class

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VHLPX4-11W/A

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (746)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	5326 N | 1,197.333 lbf
Side Force (FS)	2638 N | 593.046 lbf
Twisting Moment (MT)	2162 N-m | 19,135.312 in lb
Force on Inboard Strut Side	2862 N | 643.403 lbf
Zcg without Ice	43 mm | 1.693 in
Zcg with 1/2 in (12 mm) Radial Ice	284 mm | 11.181 in
Weight with 1/2 in (12 mm) Radial Ice	74 kg | 163.142 lb

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COMMSCOPE®

NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
MCPW

5155 SILVERTON RD NE
SALEM, OR 97305

	DATE	RELEASE
	07-01-24	SITE SKETCH
	10-29-24	PRELIMINARY ZONING DRAWINGS
	10-24-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-20-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

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Civil Engineers
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SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES III

SHEET NUMBER:

RF-1.2

VHLPX1-23-2WH/C



0.3 m | 1 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 21.200 – 23.600 GHz, PBR220 flange, white antenna, gray radome without flash, standard pack—one-piece reflector

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Antenna Input	PBR220
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
Side Struts, Included	0
Side Struts, Optional	0

Dimensions

Diameter, nominal	0.3 m | 1 ft

Electrical Specifications

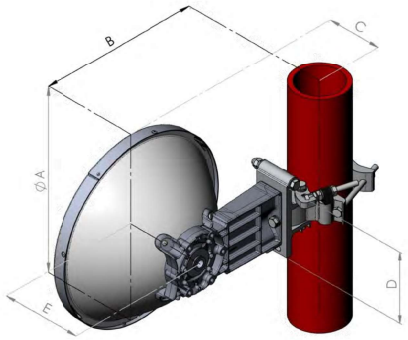
Operating Frequency Band	21.200 – 23.600 GHz
Gain, Low Band	35 dBi
Gain, Mid Band	35.6 dBi
Gain, Top Band	36.2 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	62 dB
Beamwidth, Horizontal	3 °

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Revised: March 12, 2025

ANDREW an Amphenol company

VHLPX1-23-2WH/C

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
1 (0.3)	15(382)	12.7(323)	6(151)	6.1(155)	7(177

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	446 N | 100.255 lbf
Side Force (FS)	198 N | 44.512 lbf
Twisting Moment (MT)	144 N-m | 1,274.507 in lb
Zcg without Ice	28 mm | 1.102 in
Zcg with 1/2 in (12 mm) Radial Ice	54 mm | 2.126 in
Weight with 1/2 in (12 mm) Radial Ice	12 kg | 26.455 lb

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Revised: March 12, 2025

ANDREW an Amphenol company

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Marion County OREGON

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES IV

SHEET NUMBER:

RF-1.3

SITE NAME:

EASTVIEW LANE

4830 EASTVIEW LN NE, SILVERTON , OR 97381

SHEET INDEX

CONSTRUCTION SUBMITTAL:

T-1	COVER SHEET
EX-1	EXISTING CONDITIONS
G-1	GENERAL NOTES
ER-1	GRADING & EROSION CONTROL PLAN
ER-2	GRADING & EROSION CONTROL DETAILS
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ELEVATIONS
C-4	INTERIOR SHELTER PLANS
C-5	SHELTER SECTIONS
C-6	COMPOUND DETAILS
C-7	GENERATOR & PROPANE TANK DETAILS
C-8	HVAC DETAILS
E-1	SITE GROUNDING PLAN & DETAILS
E-2	GROUNDING DETAILS I
E-3	GROUNDING DETAILS II
RF-1,0	RF TOWER APPURTENANCES I
RF-1.1	RF TOWER APPURTENANCES II
RF-1,2	RF TOWER APPURTENANCES III
RF-1,3	RF TOWER APPURTENANCES IV
RF-1.4	RF TOWER APPURTENANCES V

PROJECT INFORMATION

PROPERTY OWNER:
CITY OF SILVERTON
306 S WATER ST
SILVERTON, OR 97381

TOWER OWNER:
SBA COMMUNICATIONS CORPORATION
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
CONTACT:
JOE ROZANC
(702) 581-2663
jrozanc@sbasite.com

COUNTY:
MARION

JURISDICTION:
MARION COUNTY

ZONING:
P (PUBLIC)

PARCEL NUMBER(S) & AREA:
ACCOUNT #: 520803
TAXLOT #: 071W02A000600
95,832 SQ FEET±
2.2 ACRES±

PROJECT AREA:
TOTAL COMPOUND AREA - 1,192 SQ FEET ±
ACCESS DRIVE AND PARKING - 1,925 SQ FEET ±
TOTAL - 3,117 SQ FEET ±

PROJECT LOCATION:
*LAT: N 44° 59'40.8" (44.994660)
*LONG: W 122°45'57.8" (-122.766060)
*GROUND ELEVATION (ASML) = 589'±

*INFORMATION OBTAINED FROM GOOGLE EARTH

UTILITY PROVIDERS:
TELCO PROVIDER: N/A
POWER PROVIDER: PORTLAND GENERAL ELECTRIC

GENERAL INFORMATION:
1. TRAFFIC IS UNAFFECTED
2. SIGNAGE AT SITE IS PROPOSED
3. SITE IS UNMANNED AND HANDICAP ACCESS IS NOT REQUIRED

CODE INFORMATION:
1. IBC-2018 INTERNATIONAL BUILDING CODE
2. NEC-2017 NATIONAL ELECTRIC CODE
3. 2019 OREGON STRUCTURAL SPECIALTY CODE
4. 2017 NFPA 58 CODE
5. OCCUPANCY GROUP: U
6. CONSTRUCTION TYPE: II-B

PROJECT INFORMATION CONTINUED

APPLICANT:
MARION COUNTY PUBLIC WORKS
5155 SILVERTON RD NE
SALEM, OR 97305
CONTACT:
BRIAN NICHOLAS
(503) 588-7943
bnicholas@co.marion.or.us

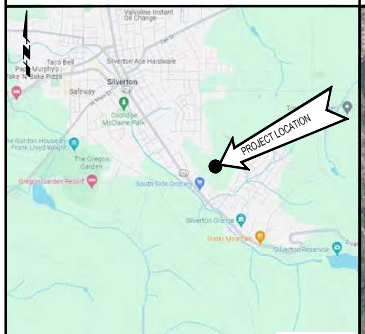
PROJECT MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

CONSTRUCTION MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

ZONING CONTACT:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
ROB HOWE
(503) 387-5331
rob@cushingcivilengineers.com

ENGINEER OF RECORD:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
KENNY MCMANAWAY
(503) 387-5331
kenny@cushingcivilengineers.com

VICINITY MAP



LOCATOR MAP



DRIVING DIRECTIONS

FROM MARION COUNTY PUBLIC WORKS BUILDING:

1. HEAD NORTHWEST TOWARD OR-213 N
   144 FT
2. TURN RIGHT
   256 FT
3. TURN RIGHT TOWARD OR-213 N
   446 FT
4. TURN LEFT ONTO OR-213 N
   9.2 MI
5. CONTINUE ONTO E MAIN ST
   0.6 MI
6. TURN RIGHT ONTO STEELHAMMER RD
   0.2 MI
7. CONTINUE ONTO EASTVIEW LN NE
   0.7 MI

EST. TIME: 21 MINS.
EST. MILEAGE: 10.9 MI

PROJECT DESCRIPTION

1. PROPOSED MODIFICATION OF AN EXISTING PUBLIC SAFETY COMMUNICATIONS FACILITY FOR MARION COUNTY, OREGON.
2. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT ON EXISTING 141' MONOPOLE TOWER:
   * ANTENNA W/ ASSOCIATED ANCILLARY EQUIPMENT
3. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT WITHIN EXISTING SHELTER:
   * EXISTING EQUIPMENT SHELTER IMPROVEMENT
4. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT WITHIN EXISTING GROUND SPACE:
   * GENERATOR (REPLACE EXISTING)

THE CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN ELECTRICAL AND MECHANICAL (GENERATOR AND TANK INSTALL, HVAC AND PROPANE GAS PIPING) BUILDING PERMITS AND TO PAY ELECTRICAL AND MECHANICAL BUILDING PERMIT FEES.

OREGON

PROJECT INFORMATION:

MARION COUNTY
EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

T-1

NOTE:
THIS IS NOT A SURVEY: ALL EXISTING INFORMATION IS PROVIDED BY MARION COUNTY GIS.

(EX) ICE BRIDGE TO REMAIN
(EX) MONOPOLE TO REMAIN
(EX) ICE BRIDGE TO REMAIN
(EX) EQUIPMENT SHELTER TO REMAIN
(EX) UTILITY H-FRAME TO REMAIN
(EX) METER & DISCONNECT TO REMAIN
(EX) ACCESS GATE TO REMAIN
(EX) EQUIPMENT SHELTER TO BE UPGRADED
(EX) GENERATOR TO BE REMOVED
(EX) PROPANE TANK TO REMAIN
(EX) GENERATOR TO REMAIN
(EX) CHAINLINK FENCED COMPOUND TO REMAIN, TYP
(EX) WATER TANK TO REMAIN

2
EX-1

0 5 10 20
SCALE: 1" = 10'

EXISTING CONDITIONS — 11X17 SCALE: 1" = 20' | 22X34 SCALE: 1" = 10' | 1



SITE PHOTO SCALE: NTS | 2

Marion County
OREGON

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EASTVIEW LANE

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SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER:

EX-1

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.
3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
8. THE CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.
9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES, THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THE CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO EQUAL OR BETTER NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE OWNERS REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.
14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROJECT MANAGER WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
16. THIS IS AN ESSENTIAL FACILITY THEREFORE SHALL STRICTLY MEET ALL APPLICABLE CODE AND JURISDICTIONAL REQUIREMENTS.

GENERAL NOTES CONTINUED:

17. THE CONTRACTOR SHALL PERFORM WORK DURING SITE/PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
18. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
21. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE PROJECT MANAGER PRIOR TO STARTING WORK.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (UNO).
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD (UNO).
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1-1/2 IN.
5. A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE (UNO). HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB.
6. INSTALLATION OF CONCRETE EXPANSION AND WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.
7. FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM EQUIPMENT.

SITE WORK NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY UNLESS OTHERWISE REQUIRED TO BE LEFT AS DEFINED BY LAND/PROPERTY OWNER.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, EQUIPMENT SHELTER, GENERATOR, FUEL TANK, TOWER AREAS, AND ADJACENT BUILDINGS, ETC.
3. 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.
4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION. FABRIC USE AS REQUIRED.
5. ALL APPLICABLE LOCATES SHALL BE PERFORMED PRIOR TO TO ANY EXCAVATION OR SITE GRADING. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.
7. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK..
8. BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TO COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER; GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION:

SIEVE SIZE	PERCENT PASSING
	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

9. BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL, CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE.

SITE WORK NOTES CONTINUED:

10. ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH INDUSTRY STANDARDS AND BE ALIGNED WITH BMP GUIDELINES AS TECHNICALLY APPLICABLE. EACH SITE MUST BE PM APPROVED BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED.
11. IF INADVERTENT DISCOVERIES OF NATIVE AMERICAN CULTURAL MATERIALS OR HUMAN REMAINS ARE MADE DURING CONSTRUCTION, ALL WORK SHOULD CEASE AND POTENTIALLY AFFECTED TRIBES, AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE, SHOULD BE NOTIFIED IMMEDIATELY.

TOWER/POLE NOTES:

1. ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.
2. ALL HARDWARE (NUTS AND BOLTS) BE TIGHTENED AND TORQUED IN ACCORDANCE WITH THE TOWER MANUFACTURER'S AND STRUCTURAL ENGINEER'S SPECIFICATIONS.
3. VERIFICATION THAT THE TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
4. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ATTENTION (OREGON SITES ONLY):

CALL 1-800-332-2344 48 HOURS BEFORE YOU DIG, OREGON LAW REQUIRES YOU TO FOLLOW OAR 952-001-0010 THRU 952-001-0090. COPIES ARE AVAILABLE AT THE OREGON UTILITY NOTIFICATION CENTER 503-232-1987

DESIGN LOADS:

ROOF SNOW LOAD DATA -	GROUND SNOW LOAD:	81 PSF
	FLAT-ROOF SNOW LOAD:	N/A
	SNOW EXPOSURE FACTOR:	N/A
	SNOW LOAD IMPORTANCE FACTOR:	N/A
	THERMAL FACTOR:	N/A
WIND DESIGN DATA -	ULTIMATE DESIGN WIND SPEED:	107 MPH
	RISK CATEGORY:	IV
	WIND EXPOSURE:	C
	INTERNAL PRESSURE COEFFICIENT:	N/A
	DESIGN WIND PRESSURES;	
	WIND LOAD HORIZONTAL (MWFRS):	N/A
	WIND LOAD (UPLIFT) (MWFRS):	N/A
EARTHQUAKE DESIGN DATA -	RISK CATEGORY:	IV
	SEISMIC IMPORTANCE FACTOR:	N/A
	MAPPED SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_S	0.86
	S_1	0.34
	SITE CLASS:	D
	DESIGN SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_{DS}	0.72
	S_{D1}	0.49
	SEISMIC DESIGN CATEGORY:	D
	BASIC SEISMIC FORCE-RESISTING	
SYSTEM:	BEARING WALL	
	DESIGN BASE SHEAR:	N/A
	SEISMIC RESPONSE COEFFICIENT:	N/A
	RESPONSE MODIFICATION COEFFICIENT:	N/A
	ANALYSIS PROCEDURE USED:	N/A

INFORMATION OBTAINED FROM ASCE 7 HAZARD TOOL

INTERGOVERNMENTAL AGREEMENT:

1. **SITE IMPROVEMENTS**: COUNTY SHALL, AT COUNTY'S SOLE EXPENSE, INSTALL 'WEED BARRIER' FABRIC AND AGGREGATE SURFACING SURROUNDING CITY'S RADIO EQUIPMENT SHELTER, BACKUP GENERATOR AND PROPANE TANK TO PREVENT INTRUSION BY BLACKBERRIES AND OTHER INVASIVE WEEDS.
2. **PERMITS**: COUNTY SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH SUCH PERMITS AND LICENSES, AND SHALL OBTAIN AND DELIVER TO CITY A COMMERCIAL CERTIFICATE OF OCCUPANCY (CCO) FOLLOWING THE SATISFACTORY COMPLETION OF CONSTRUCTION ACTIVITIES.
3. **CONSTRUCTION COORDINATION**: COUNTY SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH CITY AND EXISTING RADIO EQUIPMENT SHELTER USERS TO ALLOW UNINTERRUPTED USE OF THE SHELTER DURING CONSTRUCTION. COUNTY SHALL PROTECT EXISTING RADIO EQUIPMENT INSTALLATIONS FROM EXCESSIVE DUST, HEAT, MOISTURE AND IMPACT THROUGHOUT CONSTRUCTION, AND SHALL PROVIDE TIME AND SPACE FOR THE RELOCATION OF EXISTING RADIO EQUIPMENT BY OTHERS THAT MAY BE NECESSARY TO FACILITATE CONSTRUCTION. COUNTY SHALL COMPLY WITH CITY'S SITE SECURITY PRACTICES THROUGHOUT CONSTRUCTION.
4. **EXCEPTION**: ONE OR MORE POWER OUTAGES MAY BE NECESSARY DURING CONSTRUCTION, IN WHICH CASE COUNTY SHALL SCHEDULE SUCH OUTAGES IN COORDINATION WITH CITY AND EXISTING RADIO EQUIPMENT SHELTER USERS FOR A TIME AND DURATION THAT LIMITS OPERATIONAL IMPACTS TO SUCH USERS.
5. **SECURITY**: COUNTY RECOGNIZES THAT CITY MAY ALLOW COOPERATIVE USE OF CITY'S RADIO EQUIPMENT SHELTER BY OTHER AGENCIES AND THEIR CONTRACTED SERVICE PROVIDERS. COUNTY IS SOLELY RESPONSIBLE FOR THE INSTALLATION OF EQUIPMENT SECURITY MEASURES, SUCH AS LOCKABLE EQUIPMENT CAGES, THAT COUNTY DEEMS NECESSARY TO PREVENT TAMPERING OF COUNTY'S RADIO EQUIPMENT.

ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	MET, MTL	METAL
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MGR	MANAGER
AGL	ABOVE GRADE LEVEL	MIN	MINIMUM
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	N	NORTH
		NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	OC, o/c	ON CENTER
BMR	BASE MOBILE RADIO	OD	OUTSIDE DIAMETER
B/S	BUILDING STANDARD	OPG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	OHP	OVERHEAD POWER
CONC	CONCRETE	UGP	UNDRGRND POWER
CONST	CONSTRUCTION	OHT	OVERHEAD TELCO
CONT	CONTINUOUS	UGT	UNDRGRND TELCO
DBL	DOUBLE	PR	PAIR
DIA, Ø	DIAMETER	PROJ	PROJECT
DIAG	DIAGONAL	PROP	PROPERTY
DIM	DIMENSION	P	PROPOSED
DN	DOWN	PT	PRESSURE TREATED
DTL, DETL	DETAIL	REQ'D	REQUIRED
DWG	DRAWING	RM	ROOM
E	EAST	R.O.	ROUGH OPENING
EA	EACH	S	SOUTH
EL, ELEV	ELEVATION	SHT	SHEET
ELECT	ELECTRICAL	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ	SQUARE
E.W.	EACH WAY	SS	STAINLESS STEEL
EX	EXISTING	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FIN	FINISH	SUSP	SUSPENDED
FLUOR	FLUORESCENT	S.V.	SHEET VINYL
FLR	FLOOR	THRU	THROUGH
FT	FOOT	TNND	TINNED
GA	GAUGE	T.O.C.	TOP OF CONCRETE
GALV	GALVANIZE(D)	T.O.M.	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GRND	GROUND	U.N.O.	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
GYP BD	GYPSUM BOARD	VIF	VERIFY IN FIELD
HARDWD	HARDWOOD	VT	VINYL TILE
HORIZ	HORIZONTAL	W	WEST
HR	HOUR	W/	WITH
HT	HEIGHT	WIN	WINDOW
HVAC	HEATING, VENTING AND AIR CONDITIONING	W/O	WITHOUT
		WP	WATERPROOF
I.D.	INSIDE DIA.	∠	ANGLE
IN	INCH	&	AND
INFO	INFORMATION	℄	CENTER LINE
INSUL	INSULATION	℞	PROPERTY LINE
INT	INTERIOR	@	AT
LB(S)	POUND(S)	#	NUMBER
LNA	ANTENNA AMPLIFIER		
MAX	MAXIMUM		
MECH	MECHANICAL		

SYMBOLS LEGEND

- REVISION
- KEY NOTE DETAIL
- REFERENCE ELEVATION (3 / C-4)
- SECTION REFERENCE (A / C-3)
- ELEVATION DATUM POINT
- CHAINLINK FENCE
- CEDAR FENCE
- PROPANE (LPG)
- UNDERGROUND POWER (P)
- OVERHEAD POWER (OHP)
- TELCO (T)
- POWER/TELCO (T/P)
- GAS (G)
- WATER (W)
- COAX (COAX)
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- SUBJECT PROPERTY LINE

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-24-24	PRELIMINARY ZONING DRAWINGS
	11-06-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

G-1

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS APPROVED UNTIL THE LOTS ARE SOLD.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIODS, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
8. STABILIZED GRAVEL ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
10. PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
11. SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1 FOR EACH PHASE OF CONSTRUCTION.
12. IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT. SEE THE CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CHAPTER 4) FOR REQUIREMENTS.
13. NO EXPOSED, BARE SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS DURING THE PERIOD OCTOBER 1 THROUGH APRIL 30 OR FOR MORE THAN SEVEN DAYS DURING THE PERIOD OF MAY 1 THROUGH SEPTEMBER 30. ALL DISTURBED SOIL SURFACES SHALL BE STABILIZED BY A SUITABLE APPLICATION OF "BEST MANAGEMENT PRACTICES".
14. WHERE FEASIBLE, NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES PROVIDED IT DOES NOT CONFLICT WITH SAFETY REQUIREMENTS.
15. THE CONTRACTOR SHALL REMOVE ESC MEASURES WHEN VEGETATION IS FULLY ESTABLISHED.

GENERAL NOTES

SCALE: NTS | 4

UNADJUSTED CUT/ FILL QUANTITIES

STRIPPING ORGANICS FOR COMPOUND;
CUT = ±78 CU. YD.

STRIPPING FOR ACCESS ROAD AND PARKING;
CUT = EXISTING

PROPOSED COMPOUND AREA;
CUT = EXISTING
FILL = 0 CU. YD.

PROPOSED ACCESS ROAD AND PARKING;
CUT = EXISTING
FILL = 0 CU. YD.

PROPOSED TOWER FOUNDATION;
EXCAVATION = EXISTING

APPROX. TOTAL AREA OF DISTURBANCE OF PROPOSED GRADING = 0 SQ. FT.

CUT/ FILL QUANTITIES

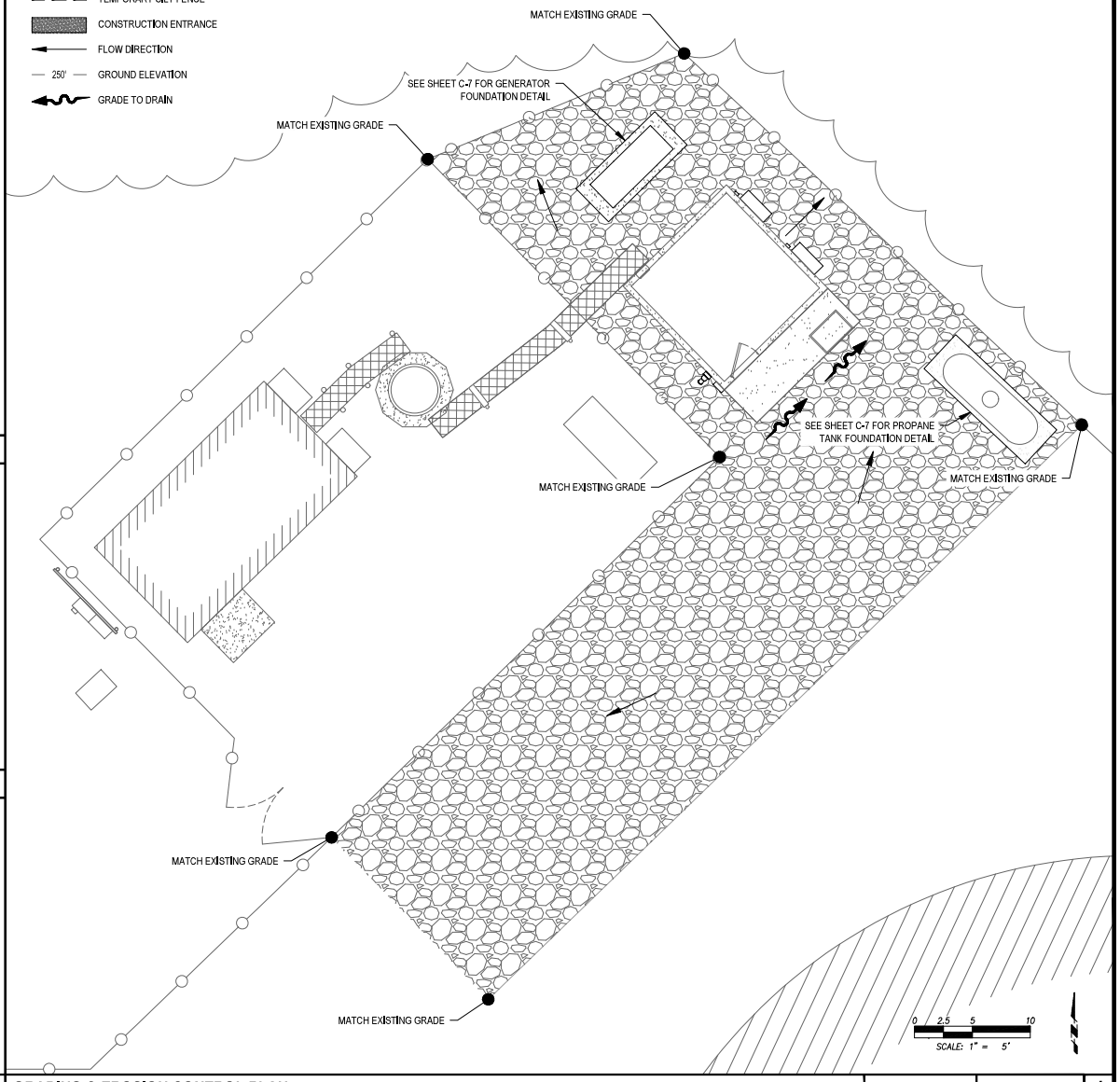
SCALE: NTS | 3

NOT USED

SCALE: NTS | 2

LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- TEMPORARY SILT FENCE
- CONSTRUCTION ENTRANCE
- FLOW DIRECTION
- 250' GROUND ELEVATION
- GRADE TO DRAIN



GRADING & EROSION CONTROL PLAN

11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

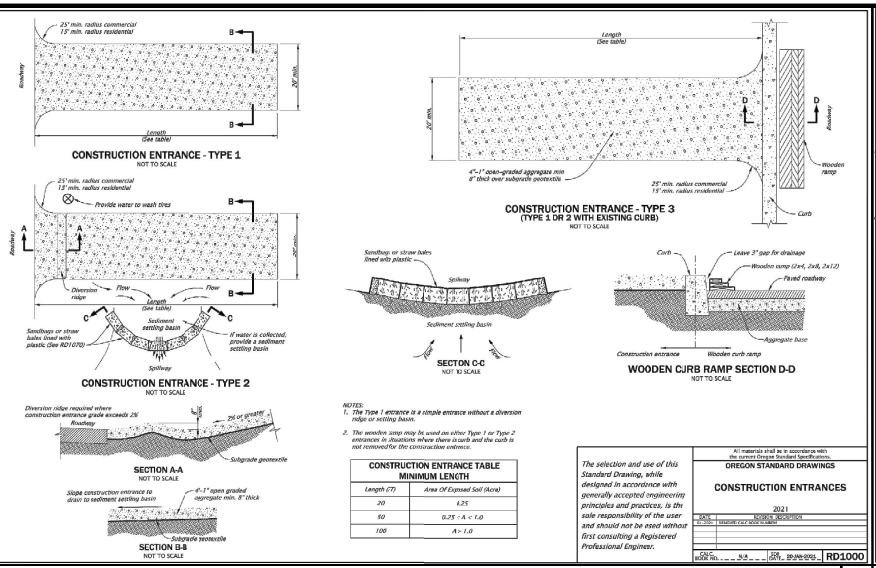
RENEWAL DATE 12/31/26

SHEET TITLE:

GRADING & EROSION CONTROL PLAN

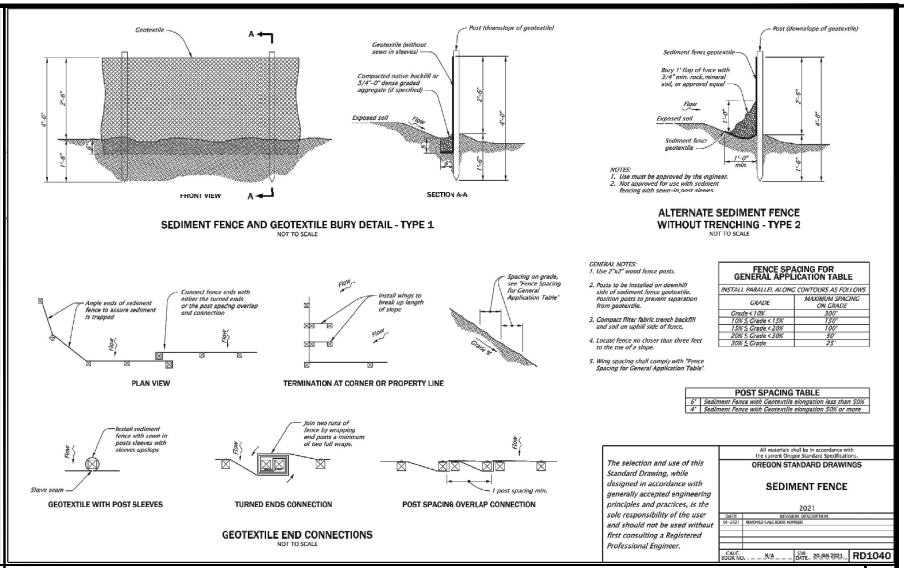
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ER-1



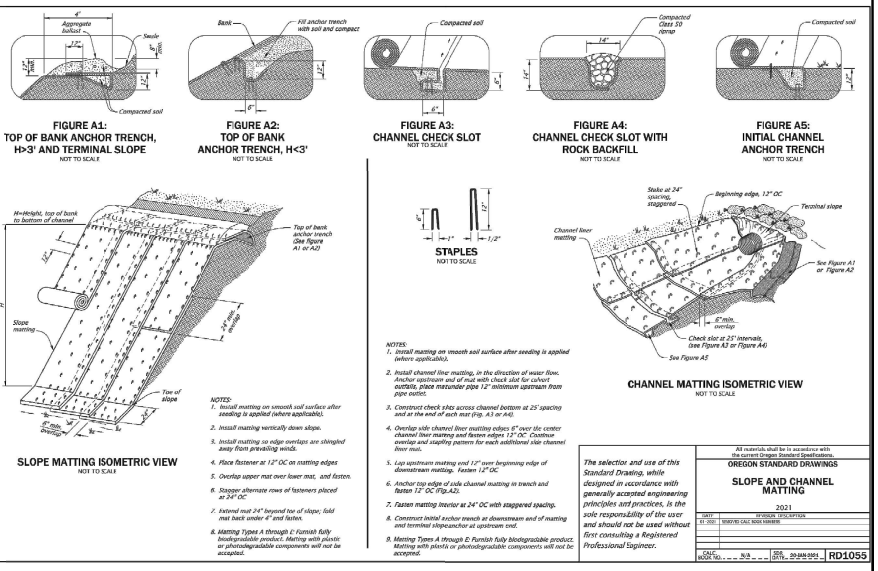
GRAVEL CONSTRUCTION ENTRANCE

SCALE: NTS | 1



TEMPORARY SEDIMENT FENCE

SCALE: NTS | 2

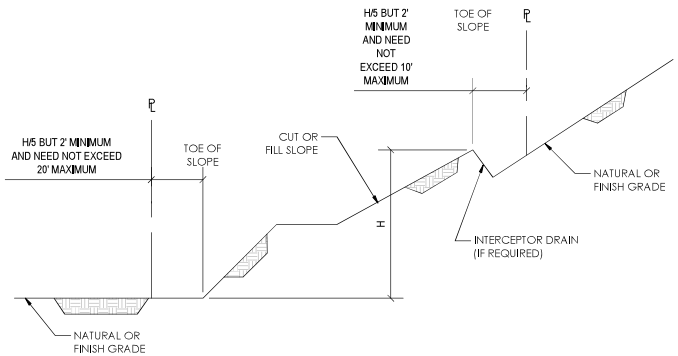


PLASTIC SHEETING

SCALE: NTS | 3

SEDIMENT FENCE NOTES:

1. INSTALL FILTER FABRIC FENCE TO FOLLOW CONTOURS WHERE FEASIBLE. SPACE FENCE POSTS A MAXIMUM OF 6 FEET APART AND DRIVE SECURELY INTO THE GROUND A MINIMUM OF 24".
2. PURCHASE FILTER FABRIC IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, SPLICE FILTER CLOTH TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP, AND FASTEN BOTH ENDS SECURELY TO THE POST, OR OVERLAP 2" X 2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET 4-3A OF THE EROSION CONTROL MANUAL.
3. ENSURE FILTER FABRIC HAS A MINIMUM VERTICAL BURIAL OF 6 INCHES, BACKFILL AND COMPACT ALL EXCAVATED MATERIAL FROM FILTER FABRIC INSTALLATION ALONG THE ENTIRE DISTURBED AREA.
4. USE STANDARD OR HEAVY-DUTY FILTER FABRIC FENCES WITH MANUFACTURED STITCHED LOOPS FOR 2" X 2" POST INSTALLATION. INSTALL STITCHED LOOPS ON THE UP HILLSIDE OF THE SLOPED AREA.
5. REMOVE FILTER FABRIC FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA IS PERMANENTLY PROTECTED AND STABILIZED.
6. INSPECT FILTER FABRIC FENCES IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.



SETBACKS AND DRAINAGE DIMENSIONS

SCALE: NTS | 4

Marion County
OREGON

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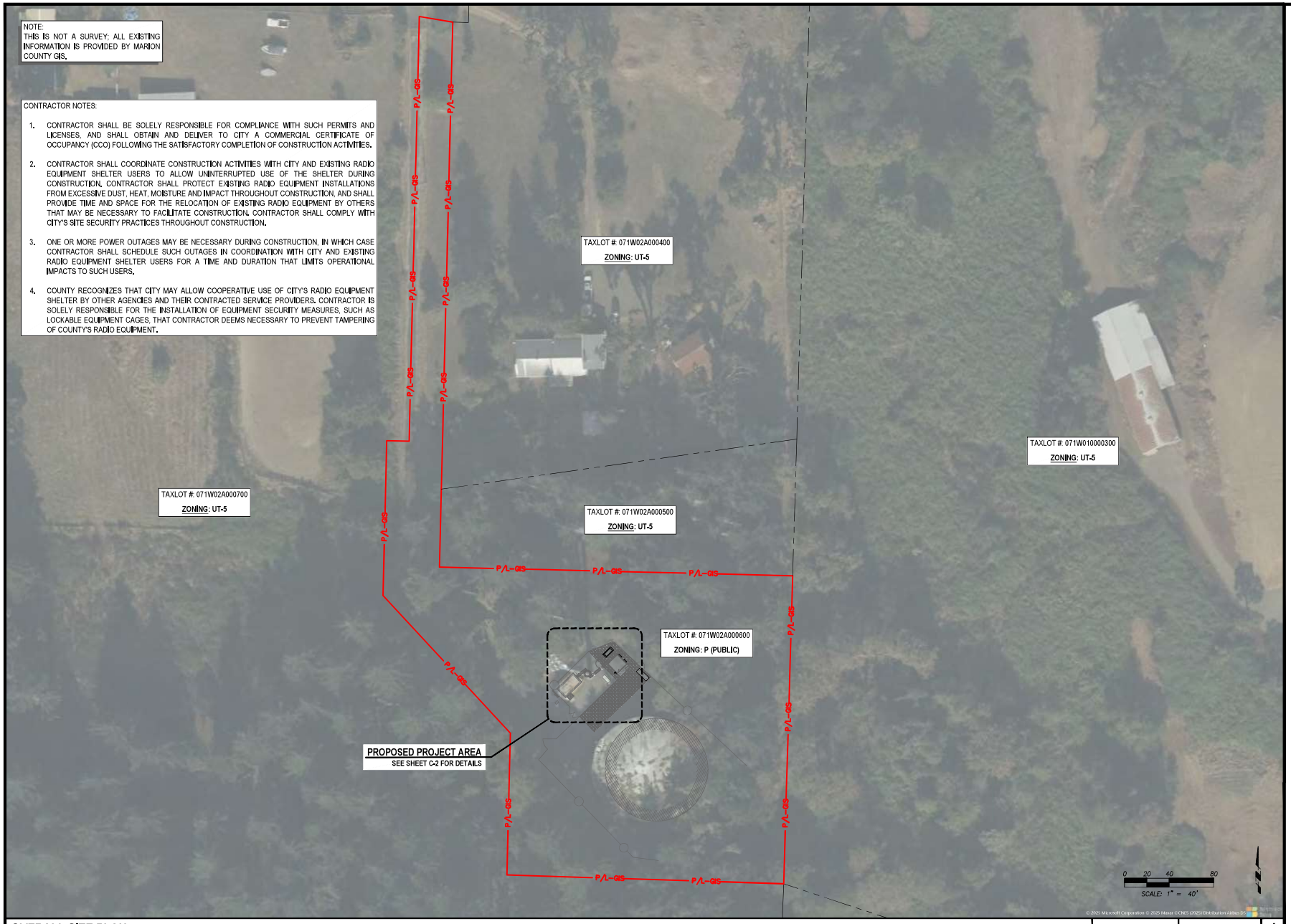
REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY
RENEWAL DATE 12/31/26

SHEET TITLE:

GRADING & EROSION CONTROL DETAILS

SHEET NUMBER:

ER-2



Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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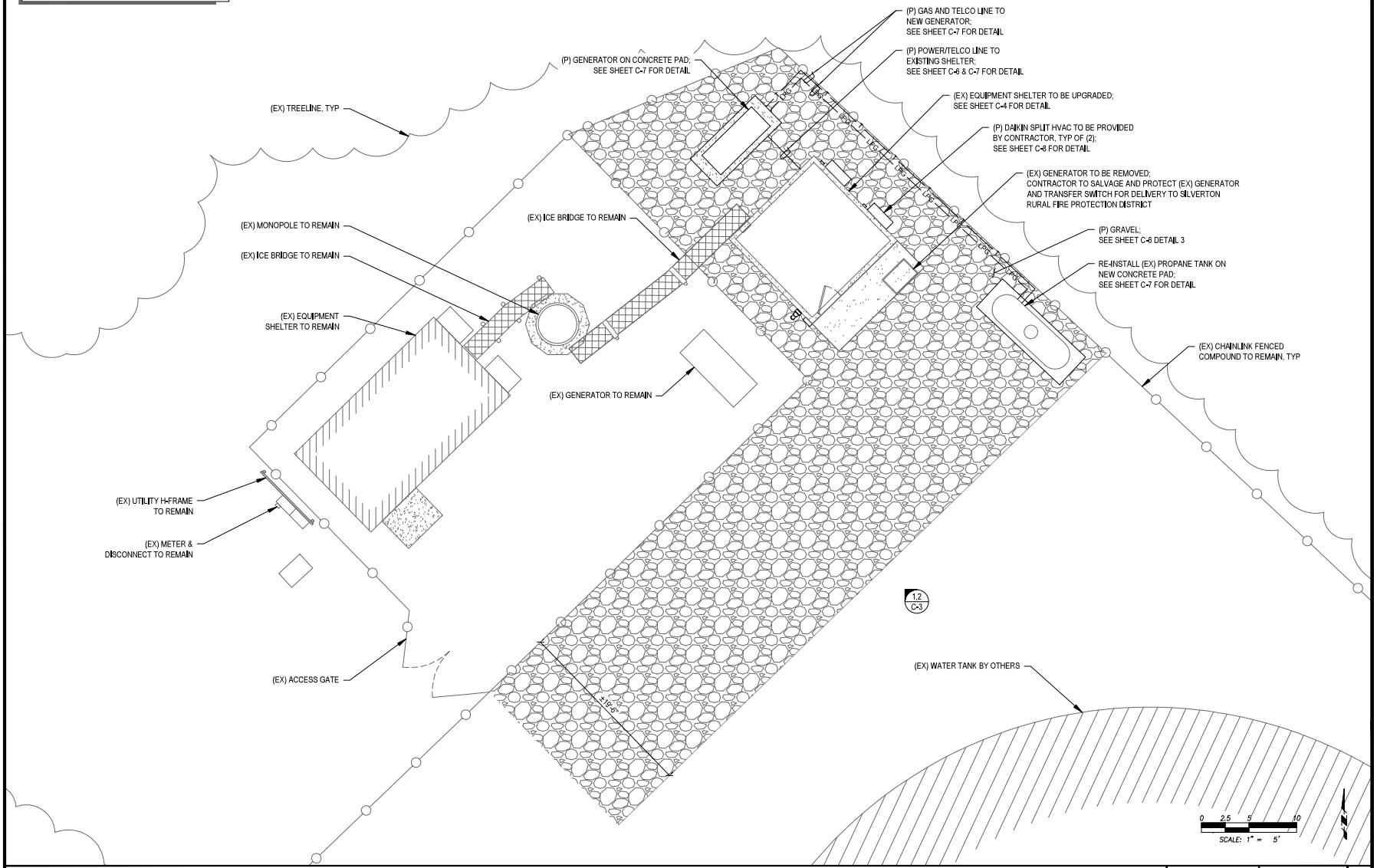
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1

NOTES:
1. TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL DESIGN BY OTHERS.
2. THIS IS NOT A SURVEY ALL EXISTING INFORMATION IS PROVIDED BY GIS & SITE WALK NOTES.
3. PROPOSED AND EXISTING ANTENNAS NOT SHOWN FOR CLARITY.



ENLARGED SITE PLAN | 11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

Marion County OREGON

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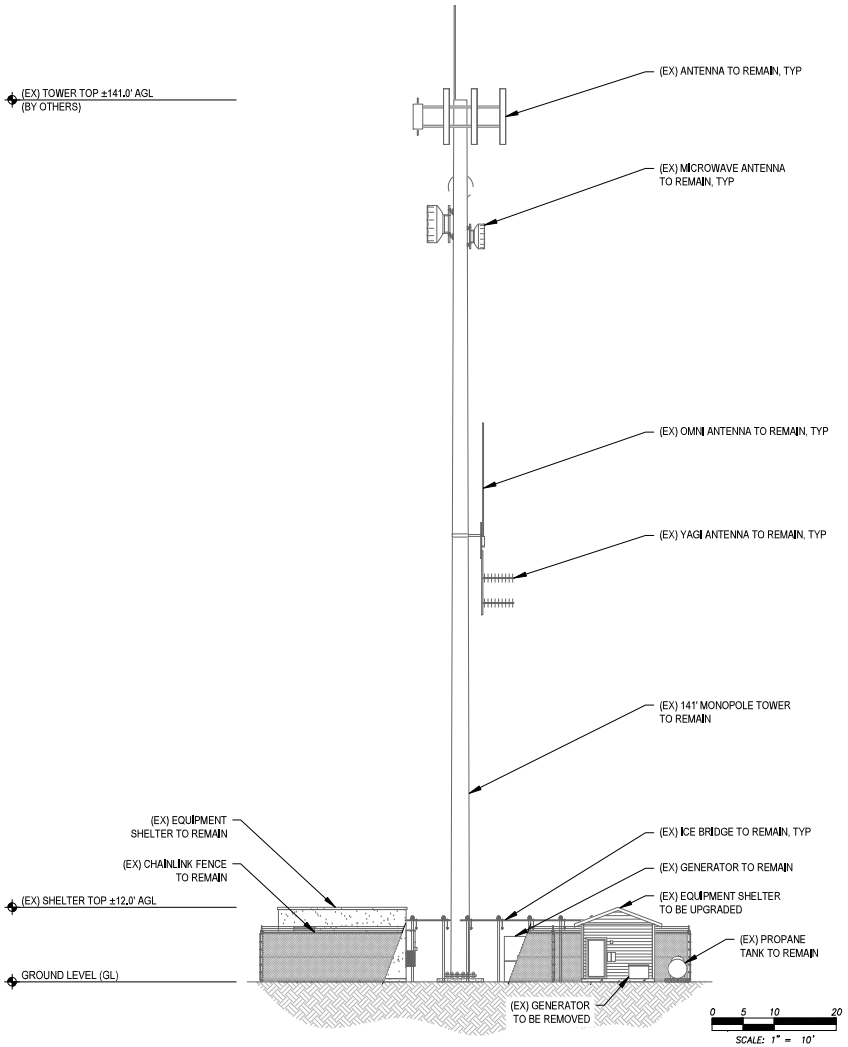
RENEWAL DATE 12/31/26

SHEET TITLE:

ENLARGED SITE PLAN

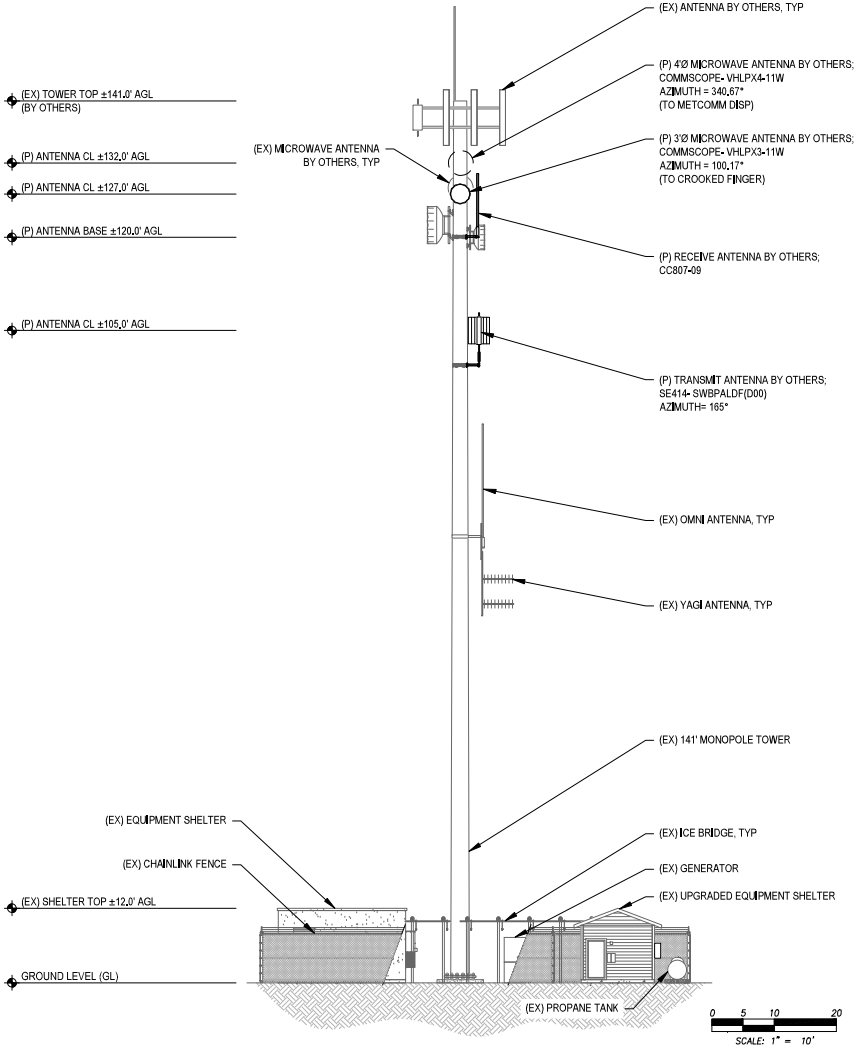
SHEET NUMBER:

C-2



EXISTING SOUTHEAST ELEVATION | 11X17 SCALE: 1" = 20' | 22X34 SCALE: 1" = 10' | 1

NOTE:
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SEE TOWER STRUCTURAL REPORT BY OTHERS.



PROPOSED SOUTHEAST ELEVATION | 11X17 SCALE: 1" = 20' | 22X34 SCALE: 1" = 10' | 2

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Cushing
Civil Engineers
12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

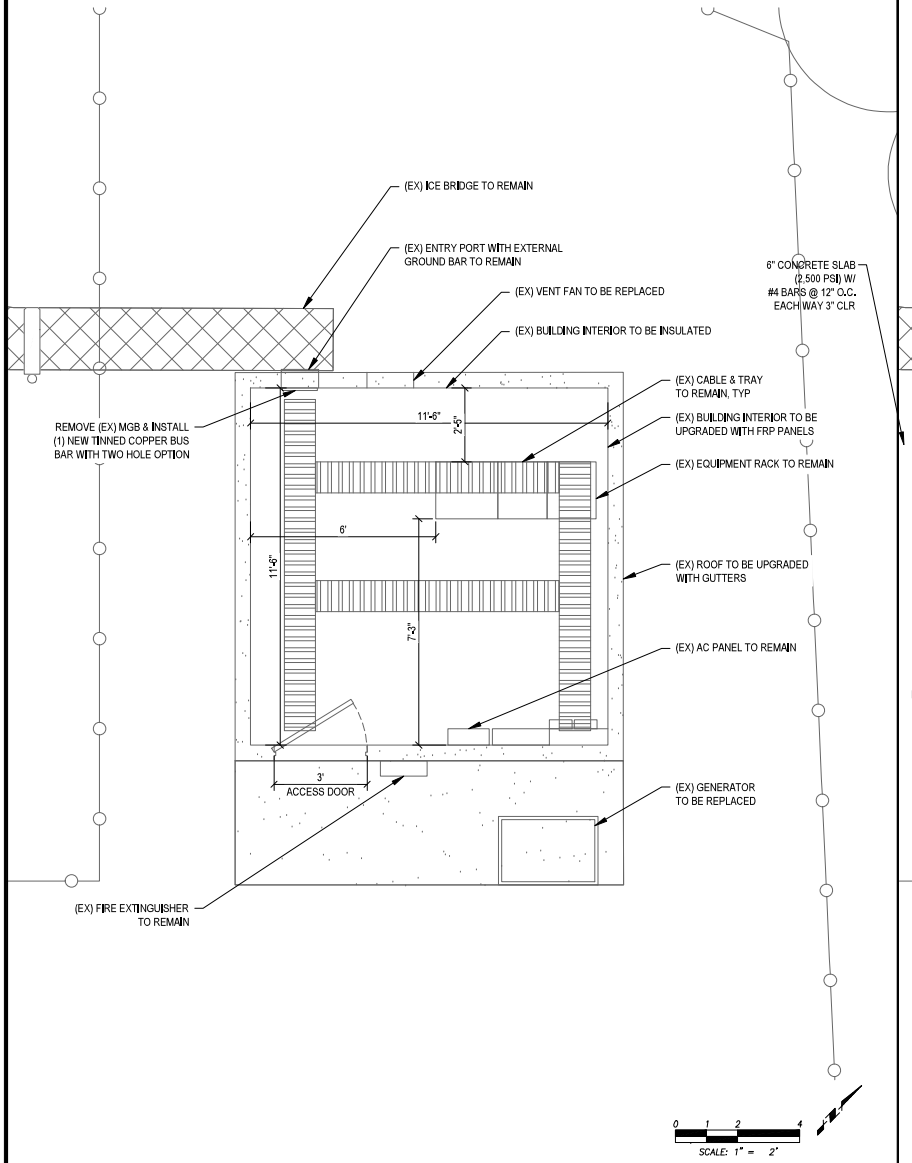
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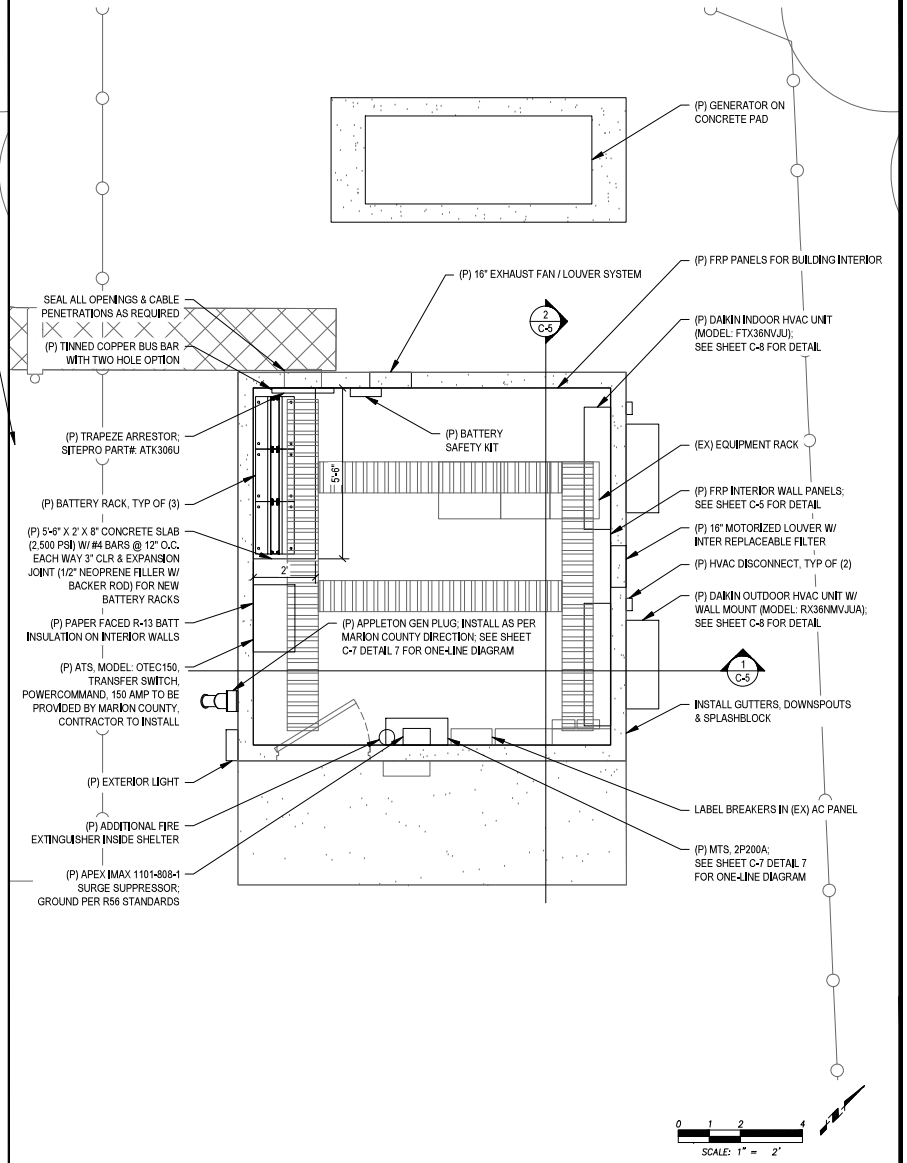
ELEVATIONS

SHEET NUMBER:

C-3



EXISTING FLOOR PLAN | 11X17 SCALE: 1" = 4' | 22X34 SCALE: 1" = 2' | 1



PROPOSED FLOOR PLAN | 11X17 SCALE: 1" = 4' | 22X34 SCALE: 1" = 2' | 2

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-24-24	PRELIMINARY ZONING DRAWINGS
	11-26-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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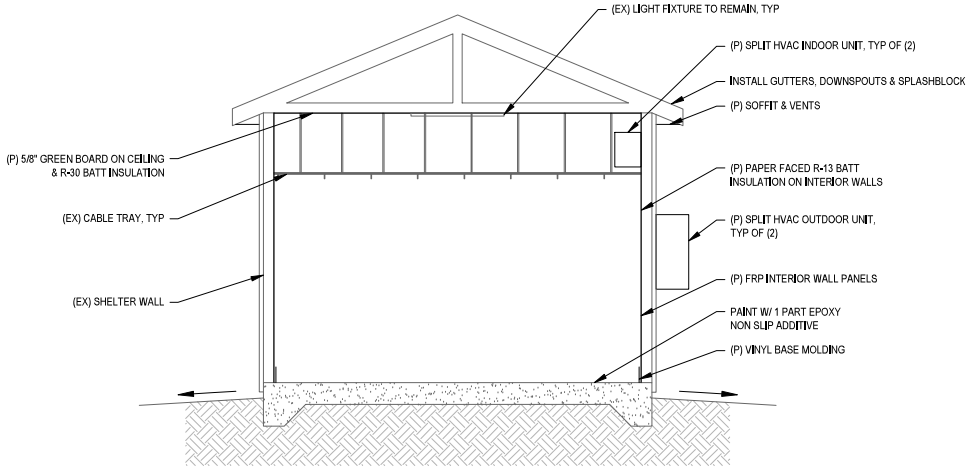
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INTERIOR SHELTER PLANS

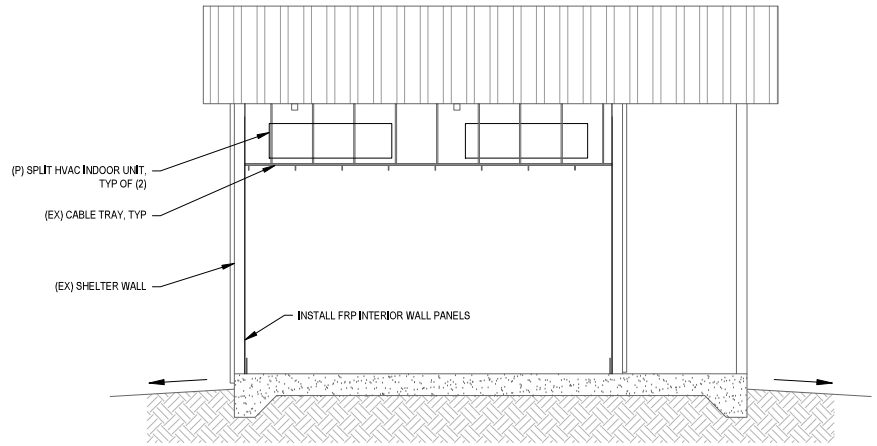
SHEET NUMBER:

C-4

NOTE:
SEE E-SHEETS FOR GROUNDING UPDATES.



WALL SECTION W/ INTERNAL VIEW LOOKING NORTHWEST SCALE: NTS 1



WALL SECTION W/ INTERNAL VIEW LOOKING NORTHEAST SCALE: NTS 2

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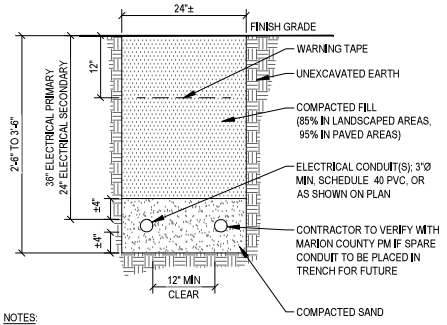
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SHEET TITLE:

SHELTER SECTIONS

SHEET NUMBER:

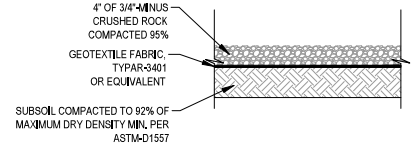
C-5



NOTES:
1. EXCAVATE TO REQUIRED DEPTH.
2. VERIFY ALL TRENCHING REQUIREMENTS PER LOCAL UTILITIES.
3. CONTRACTOR TO PROVIDE (1) 300 POUND NYLON PULL CORD AND CONDUCTORS AS REQUIRED PER CONDUIT.

POWER LINE TRENCH SCALE: NTS 1

NOT USED SCALE: NTS 2



NOTE: STRIP ALL ORGANICS

COMPOUND ROCK SECTION DETAIL SCALE: NTS 3

NOT USED SCALE: NTS 4

NOT USED SCALE: NTS 5

NOT USED SCALE: NTS 6

Marion County OREGON

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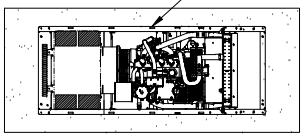
RENEWAL DATE 12/31/26

SHEET TITLE:

COMPOUND DETAILS

SHEET NUMBER:

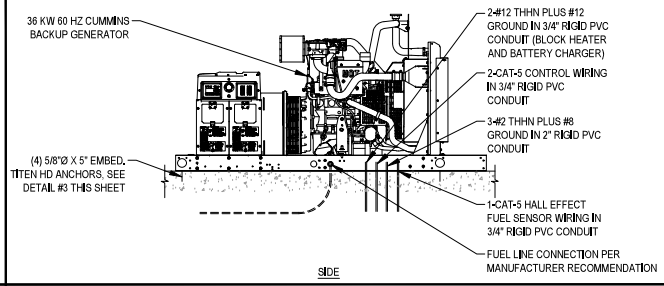
C-6

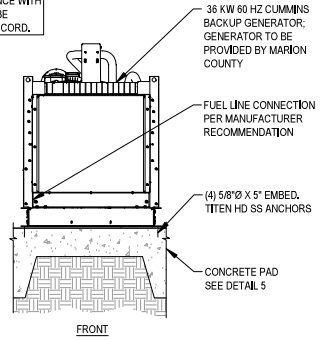


NOTE: SEE GENERATOR SPEC SHEET FOR DIMENSIONS AND WEIGHTS

GENERATOR PLAN
SCALE: NTS | 1

NOTE: DOCUMENTATION FOR THE GENERATOR IS TO BE PROVIDED BY THE SUPPLIER CERTIFYING THAT ALL HAZARDOUS CONTENTS WILL REMAIN CONTAINED FOLLOWING THE DESIGN EARTHQUAKE FOR THIS SITE. CERTIFICATION OF CONTAINMENT IS TO BE PROVIDED BY 1) ANALYSIS, 2) APPROVED SHAKE TABLE TESTING IN ACCORDANCE WITH SECTION 13.2.5 OF ASCE 7, OR 3) EXPERIENCE DATA IN ACCORDANCE WITH ASCE 7 SECTION 13.2.6. EVIDENCE DEMONSTRATING COMPLIANCE OF THIS REQUIREMENT SHALL BE SUBMITTED TO THE LOCAL JURISDICTION AFTER REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.





GENERATOR ELEVATION
SCALE: NTS | 2

NOT USED
SCALE: NTS | 3

1. CONTRACTOR TO VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO START OF WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.
3. CODE: 2018 INTERNATIONAL BUILDING CODE (IBC).
4. THE FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF.
5. CONCRETE: FOOTINGS, FC = 3,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
6. REINFORCING STEEL: FY = 60,000 PSI
7. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND SHALL BE ASTM A-36 U.O.N. ALL BOLTS HOLES SHALL BE PUNCHED OR DRILLED. BURNING OF HOLES SHALL NOT BE PERMITTED. ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF PAINT. ALL MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

PIPE:	A53 GR. B (MIN. FY = 35 KSI)
SHAPES:	ASTM A36/ ASTM A572 GR. 50
WIDE FLANGE:	ASTM A992
TUBES:	A500 GR. B, FY = 46 KSI
PLATES:	A36
WELDS:	E70XX ELECTRODES
STRUCTURAL BOLTS:	ASTM A325N
NON-STRUCTURAL BOLTS:	SAE J429 GR. 5 / F1554-36
U-BOLTS:	ASTM A36
THREADED ROD:	ASTM A307

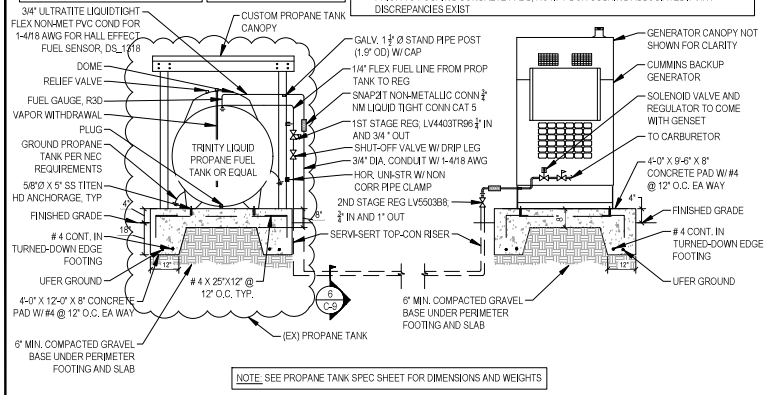
SPECIAL INSPECTION BY OWNERS TESTING AGENCY
SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY AN APPROVED AGENCY IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 SECTIONS 1703 AND SECTIONS 1704, AND WITH THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY IBC SECTIONS 1704.2.3 AND 1705 FOR BUILDING STRUCTURAL ELEMENTS SUMMARIZED AS FOLLOWS:
1. STRUCTURAL STEEL CONSTRUCTION PER IBC SECTIONS 1705.3 AND TABLE 1705.3 INCLUDING MATERIAL IDENTIFICATION, AND SHOP WELDING.

GENERAL NOTES
SCALE: NTS | 4

NOTES:
1. PROPANE TANK REGISTERED WITH NATIONAL BOARD AND COMPLIES AND INSTALLED PER NFPA 58 CODE
2. PROPANE TANK INSTALLED AT LEAST 10 FT FROM EXTERNAL SOURCE OF IGNITION

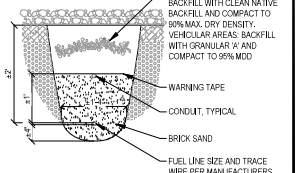
LEGEND
- SHUT-OFF VALVE
- UNION
- PRESSURE REGULATOR
- SOLENOID VALVE
- FLEXIBLE CONNECTION

NOTES:
1. GROUND SYSTEM SHOULD COMPLY WITH INDUSTRY STANDARDS
2. CONFIRM CONNECTIONS PROVIDED WITH FUEL TANK
3. USE GASEOUS LP VAPOR WITHDRAWAL SYSTEM
4. TO CODE OFFICIAL, PAD IS FOR EQUIPMENT ONLY (NO BUILDINGS)
5. CONTRACTOR IS TO VERIFY THAT ALL PROPOSED ANCHORS WILL PROVIDE ADEQUATE FIT PRIOR TO POURING CONCRETE PADS, NOTIFY DON CUSHING ASSOCIATES IF ANY DISCREPANCIES EXIST

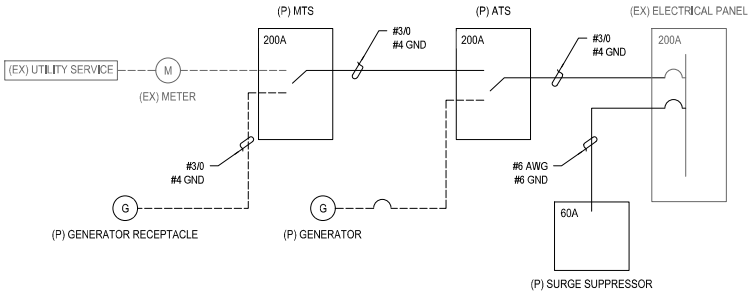


NOTE: SEE PROPANE TANK SPEC SHEET FOR DIMENSIONS AND WEIGHTS

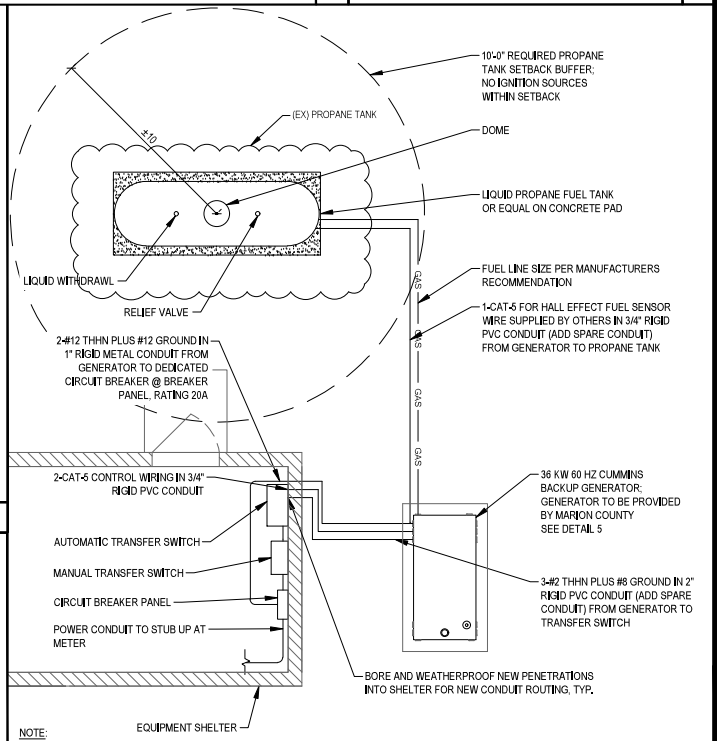
GENERATOR FUEL SYSTEM ELEVATION
SCALE: NTS | 5



TRENCH SECTION
SCALE: NTS | 6



TYPICAL ONE-LINE DIAGRAM
SCALE: NTS | 7



NOTE:

ALL CONDUIT INSIDE THE BUILDING MUST BE METAL AND BE GROUNDED PER R-56 STANDARDS.

INTERIOR SHELTER LAYOUT IS FOR REFERENCE ONLY.

THIS GENERATOR & PROPANE LAYOUT IS FOR INFORMATION ONLY AND IS PRESENTED AS A GUIDELINE. VERIFY SITE CONDITIONS AND LAYOUT PRIOR TO INSTALLATION OF ALL EQUIPMENT. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

TYPICAL GENERATOR LAYOUT
SCALE: NTS | 8

Marion County OREGON

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

GENERATOR & PROPANE TANK DETAILS

SHEET NUMBER:

C-7

Job Name:	
Tag#	

Submittal Data Sheet

FTX36NVJU / RX36NMVJUA

3-Ton Wall Mounted Heat Pump System





10 YEAR PARTS LIMITED WARRANTY

Complete warranty details available from your local dealer or at www.daikincomfort.com. Warranty registration not required to receive the 10-Year parts limited warranty for residential or commercial installations.

Efficiency

Cooling		Heating	
SEER	15.9	HSPF	9.2
EER	9.10	COP	2.78

Performance

Cooling (Btu/hr)	
Rated (Min/Max)	34,400 (10,200 / 34,400)
Sensible @ AHRI	22,160
Standard Operating Range	50°F – 115°F
Extended Operating Range*	-4°F – 115°F

Rated Cooling Conditions: Indoor: 80°F DB/67°F WB; Outdoor: 95°F DB/75°F WB

*With field settings and wind baffle

Heating (Btu/hr)	
1:@ 47° Rated (Min/Max)	36,000 (10,200 / 36,000)
2: @ 17° Rated	22,800
3: @ 5°	15,740
Operating Range	5 – 65°F

1: Rated Heating Conditions: Indoor: 70°F DB/60°F WB; Outdoor: 47°F DB/43°F WB

2: Rated Heating Conditions: Indoor: 70°F DB/60°F WB; Outdoor: 17°F DB/15°F WB

3: Heating Conditions: Indoor: 70°F DB/60°F WB; Outdoor: 5°F D3/5°F WB

Indoor Specifications

	Cooling		Heating	
Airflow Rate (cfm)	H	M	H	M
	915	742	960	791
	L	SL	L	SL
	572	512	629	544
Sound (dBA) H / M / L / SL	54 / 47 / 40 / 37		53 / 46 / 38 / 35	
Dimensions (H × W × D) (in)	13-3/8 × 47-1/4 × 10-3/16			
Weight (Lbs)	38			

Outdoor Specifications

Compressor	Hermetically Sealed Swing Type			
Refrigerant	R-410A			
Factory Charge (Lbs)	3.64			
Refrigerant Oil	PVE (FVC50K)			
Airflow Rate (cfm)	Cooling		Heating	
	H	2,811	H	2,352
Sound Pressure Level (dBA)	59			
Dimensions (H × W × D) (in)	28-15/16 × 34-1/4 × 12-5/8			
Weight (Lbs)	133			

Electrical

	208/60/1	230/60/1
System MCA	19.8	19.8
System MFA	20	20
Compressor RLA	18.25	18.25
Outdoor fan motor FLA	.83	.83
Outdoor fan motor W	123	123
Indoor fan motor FLA	.37	.37
Indoor fan motor W	64	64

MFA: Max. fuse amps **MCA:** Min. circuit amps (A) **FLA:** Full load amps (A) **RLA:** Rated load amps (A) **W:** Fan motor rated output (W)

Piping

Liquid (in)	1/4
Gas (in)	5/8
Drain (in)	5/8
Max. Interunit Piping Length (ft)	98.4
Max. Interunit Height Difference (ft)	65.625
Chargeless (ft)	32.8
Additional Charge of Refrigerant (oz/ft)	.32

Daikin North America LLC 5151 San Felipe, Suite 500 Houston, TX 77056

(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)

Submittal Revision Date: October 2021

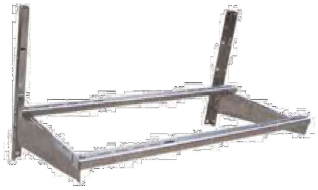
DAIKIN HEAT PUMP - FTX36NVJU / RX36NMVJUA SCALE: NTS | 1

hotspot energy

Optional Exterior Wall Mount For Air Conditioner Condensing Unit

Used to mount the outdoor air conditioning unit on an exterior wall to protect unit from snowdrift, flood, or for installation convenience.

Use Only All Stainless Steel





Above mounting hardware images for reference only. Products available through online sellers such as Lowes, Home Depot, Amazon. Not provided by HotSpot Energy.

7

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CONDENSING UNIT WALL MOUNT SCALE: NTS | 2

Marion County OREGON

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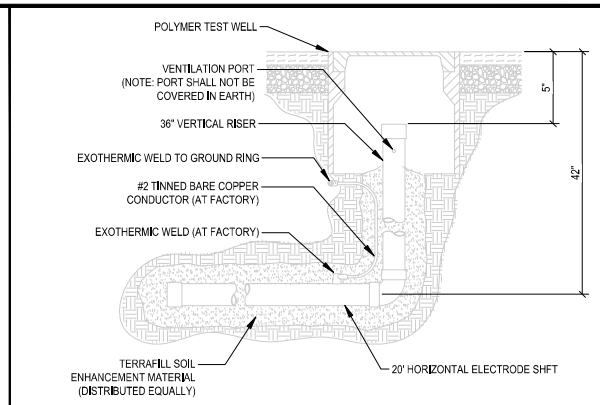
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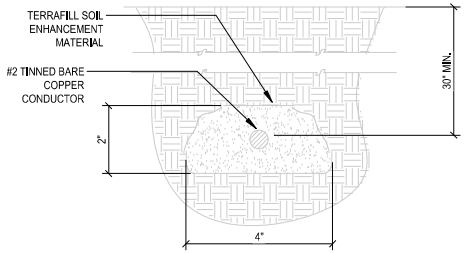
HVAC DETAILS

SHEET NUMBER:

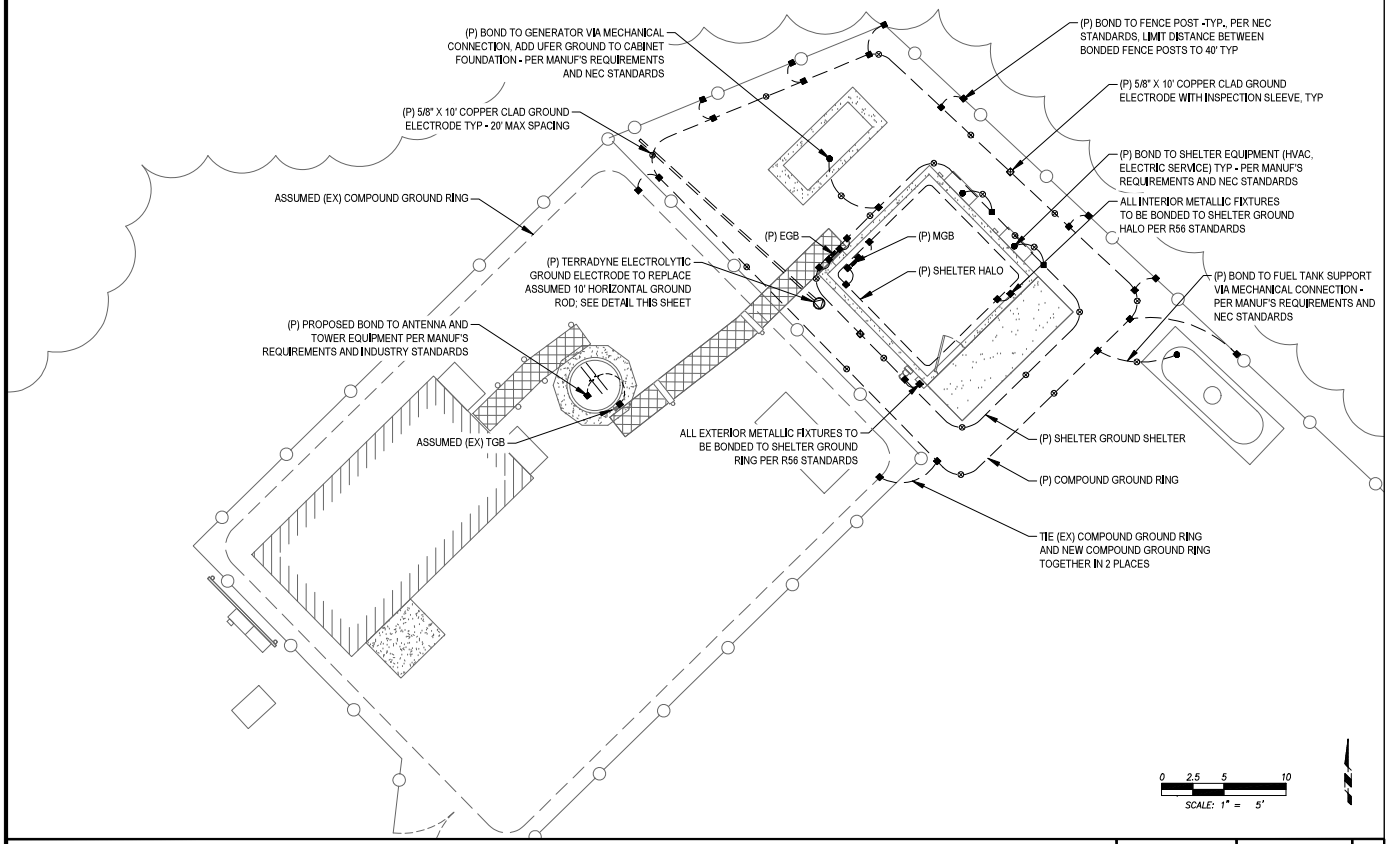
C-8



TERRADYNE ELECTROLYTIC GROUND ELECTRODE SCALE: NTS | 3



SOIL ENHANCEMENT DETAIL SCALE: NTS | 2



SITE COMPOUND GROUNDING PLAN 11X17 SCALE: 1" = 10' | 22X34 SCALE: 1" = 5' | 1

GENERAL NOTES:

1. ALL INSTALLATIONS ARE TO BE FIELD VERIFIED.
2. GROUND CONDUCTORS ARE TO BE BURIED AT A MINIMUM 30" BELOW GRADE OR 6" BELOW FREEZE LINE, WHICHEVER IS GREATER.
3. ALL BELOW GRADE GROUNDING CONDUCTORS ARE TO BE ENCOMPASSED IN A 2" X 4" BED OF SOIL ENHANCEMENT MATERIAL.
4. BONDS TO FENCE POSTS ARE TO BE MADE AT 12" ABOVE GRADE WHERE APPLICABLE.
5. NO CONDUCTOR SHALL HAVE A BEND IN RADIUS OF LESS THAN 12" AND SHALL NOT EXCEED 90 DEGREES.
6. TERRADYNE ELECTROLYTIC GROUND ELECTRODES ARE NOT TO SHARE THE SAME TRENCH AS GROUNDING CONDUCTOR, NOR RUN IN A PARALLEL PATH TO THE CONDUCTOR.
7. ALL GROUND SYSTEMS ARE TO BE MADE COMMON.
8. ALL BONDS ARE TO BE COATED WITH ANTI-OXIDATION COMPOUND.
9. WHERE STANDARD GROUND ELECTRODES ARE UNABLE TO BE DRIVEN, 12" X 12" X 1/8" COPPER GROUND PLATES SHALL BE INSTALLED 30" BELOW FINISHED GRADE & ENCOMPASSED IN 50LBS OF TERRAFILL SOIL ENHANCEMENT MATERIAL.

LEGEND:

- TERRADYNE TG-20L-H36-2T-36-4F-P SERIES ELECTRODE W/ INSPECTION WELL
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE
- 5/8" X 10' COPPER CLAD GROUND ELECTRODE WITH INSPECTION SLEEVE
- #2 TINNED SOLID COPPER CONDUCTOR

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RENEWAL DATE 12/31/26

SHEET TITLE:

SITE GROUNDING PLAN & DETAILS

SHEET NUMBER:

E-1

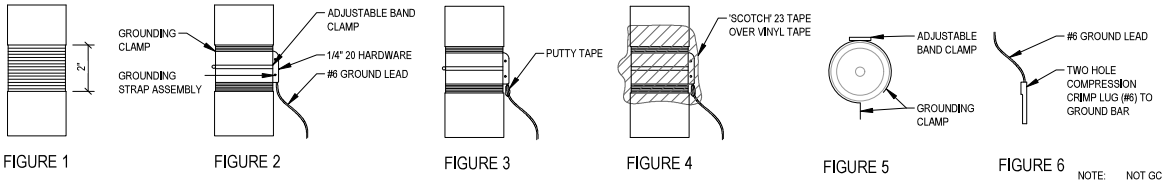
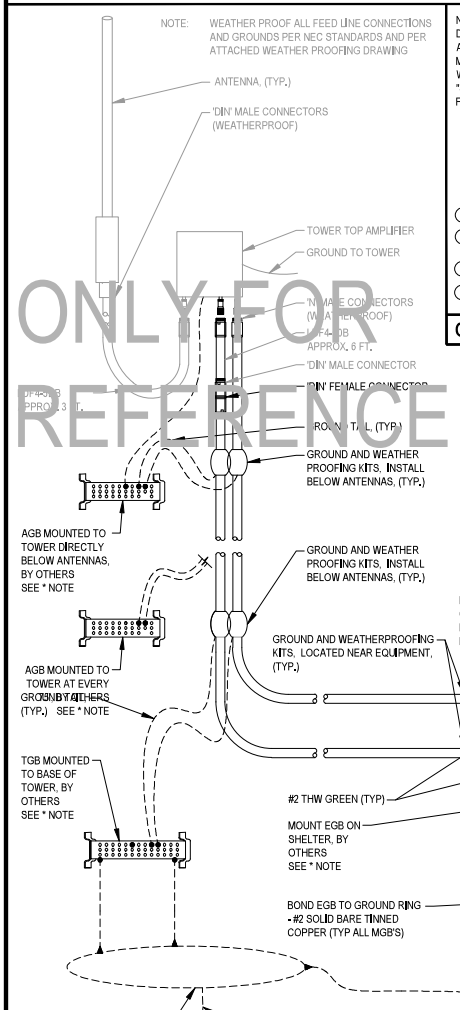


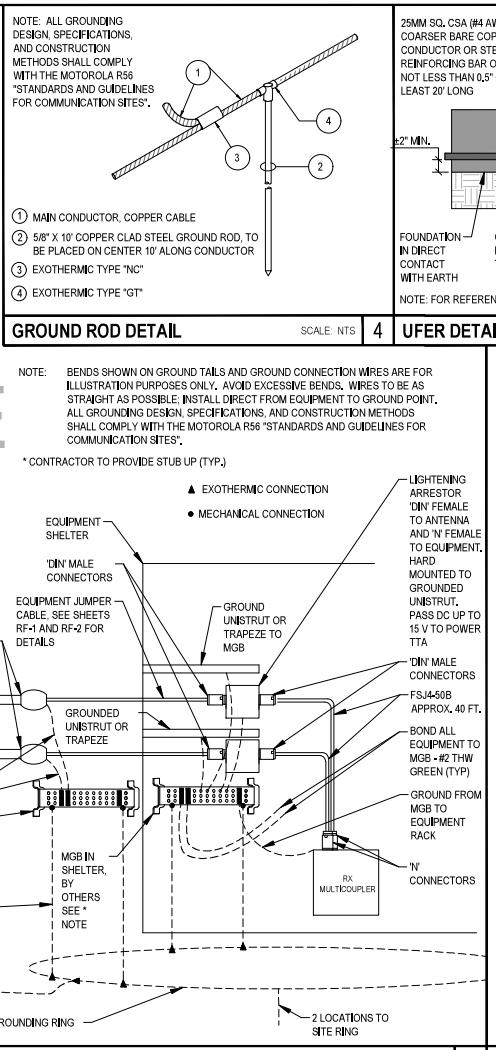
FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4 FIGURE 5 FIGURE 6

NOTE: NOT GC

FEED LINE CABLE GROUNDING

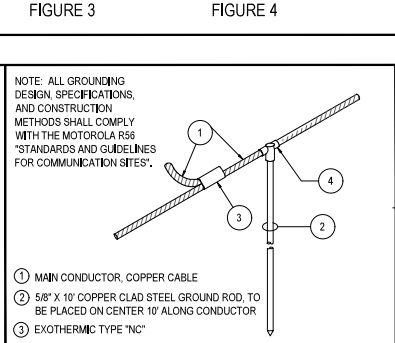
SCALE: NTS | 2





STANDARD RX GROUNDING SCHEMATICS

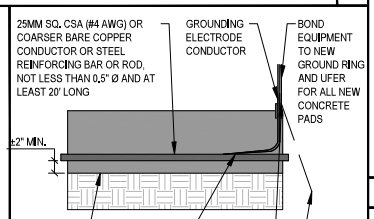
SCALE: NTS | 1



① MAIN CONDUCTOR, COPPER CABLE
② 5/8" X 10' COPPER CLAD STEEL GROUND ROD, TO BE PLACED ON CENTER 10' ALONG CONDUCTOR
③ EXOTHERMIC TYPE "NC"
④ EXOTHERMIC TYPE "GT"

GROUND ROD DETAIL

SCALE: NTS | 4



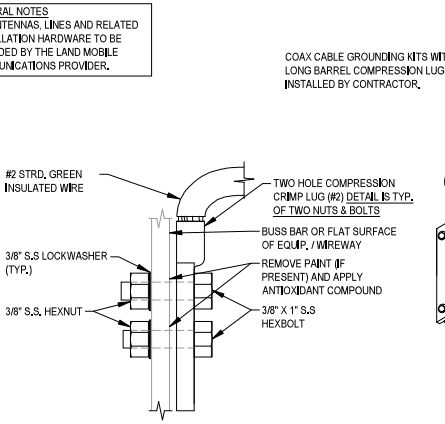
NOTE: FOR REFERENCE ONLY

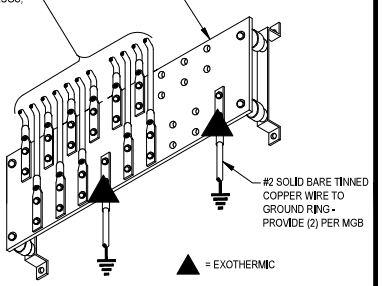
UFER DETAIL

SCALE: NTS | 5

NOTES
1. TYP. FOR ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.
2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LACQUER OR COLD GALVANIZING SPRAY.
3. GROUND LEADS TO BE EXOTHERMIC WELDED TO GROUND RING.
4. AGB IS BONDED TO TOWER.

GENERAL NOTES
ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.

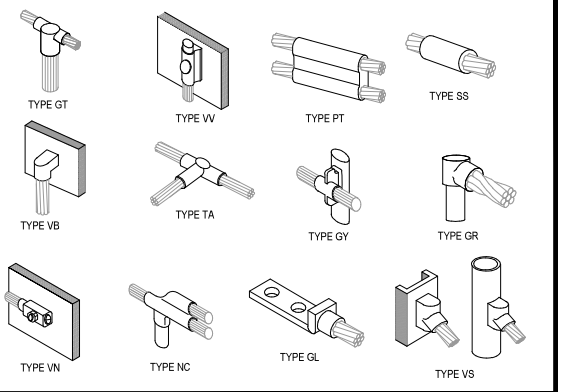




MGB (AT BASE OF TOWER AND EQUIPMENT)

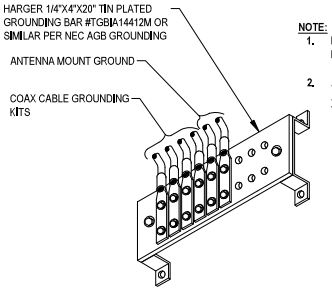
GROUND BAR DETAILS

SCALE: NTS | 6



TYPICAL EXOTHERMIC CONNECTION DETAILS

SCALE: NTS | 3



NOTE:
1. DO NOT BOND AIR TERMINAL OR LIGHTNING ROD TO AGB
2. AGB GROUND BAR TO BE PLATED. AGB TO BE BONDED DIRECTLY TO TOWER.

AGB (AT ANTENNAS)

ONLY FOR REFERENCE

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-24-24	PRELIMINARY ZONING DRAWINGS
	11-06-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

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(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

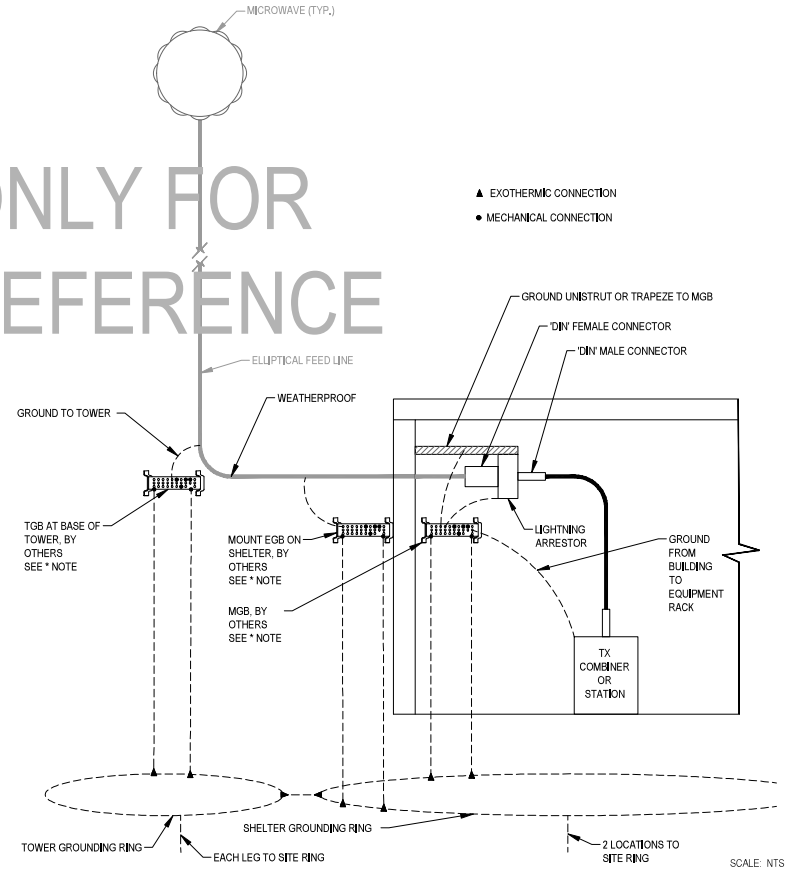
SHEET TITLE:

GROUNDING DETAILS I

SHEET NUMBER:

E-2

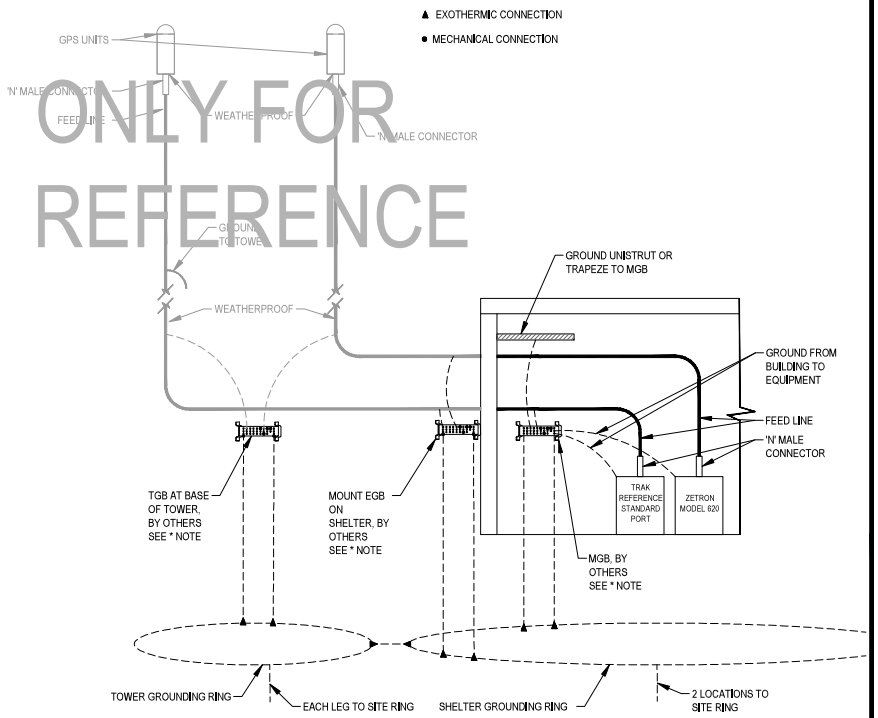
ONLY FOR REFERENCE



TYPICAL MICROWAVE ANTENNA GROUNDING SCHEMATICS | 1

NOTE:
TOWER INFO SHOWN FOR CONCEPTUAL USE ONLY. SEE TOWER STRUCTURAL REPORT BY OTHERS.

ONLY FOR REFERENCE



TYPICAL GPS ANTENNA GROUNDING SCHEMATICS SCALE: NTS | 2

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

GROUNDING DETAILS II

SHEET NUMBER:

E-3

SITE INFORMATION	
SITE NAME	**EASTVIEW LANE**

LOCATION INFORMATION			
COUNTY	MARION COUNTY		
STREET ADDRESS	4830 EASTVIEW LN NE		
CITY	SILVERTON	STATE	OR
ZIP CODE	97381		
LATITUDE (DEC.)/(DEG)	44.994660 / 44° 59'40.8" N		
LONGITUDE (DEC.)/(DEG)	-122.766060 / 122°45'57.8" W		

TOWER INFORMATION			
STRUCTURE	MONOPOLE	TOWER MANUFACTURER	VALMONT
TOWER OWNER	SBA	SERIAL/MODEL #	-
GROUND ELEVATION	±589'	# OF APPURTENANCE	-
# OF LEGS	-	HIGHEST POINT W/ ANT	-
TOWER HEIGHT W/O ANT	141'		

#	Description	Part Number	Length (ft)	Lay/Face	Status	Base Height (ft)	Centerline Height (ft)	Tip Height (ft)	Orientation Azimuth	Mount Azimuth	Mount	Transmission Line Size/Type
1	P25 TX Antenna	SE414-SW8FALDF(D00)	4.4	SE	New	103	105	107	165	165	Site-Pro PSA-6 (6' standoff)	7/8"
2	P25 RX Antenna	CC807-09	10.3	SE	New	120	125	130	-	165	Standard	1/2" to TTA
3	TTA	NPD3633A-TTA	1.0	SE	New	117	118	118	-	165	Standard	7/8"
4	Microwave - METCOMM DISP	VHLP4-11W	4.0	NW	New	130	132	134	340.67	340.67	Standard w/ tieback	EW90
5	Microwave - Crooked Finger	VHLP3-11W	3.0	SE	New	126	127	129	100.17	100.17	Standard w/ tieback	EW90
6	Microwave-1			SW	Existing		122		SW	SW	Standard	
7	Microwave-2			NE	Existing		120		NE	NE	Standard	
8	Microwave-3			NW	Existing		128		NW	NW	Standard	
9	Microwave-4			NW	Existing		140		NW	NW	Standard/platform	
10	Omni-1			SE	Existing		80		SE	S	Standoff	
11	Omni-2			SE	Existing		148		SE	SE	Standard	
12	Yagi-1			SE	Existing		65		NW	SE	Standoff	
13	Yagi-2			SE	Existing		61		NW	SE	Standoff	
14	Panel-1	Cell panels (x4)		NW	Existing		138		NW	NW	Platform	
15	Panel-2	Cell panels (x4)		SE	Existing		138		SE	SE	Platform	
16	Panel-3	Cell panels (x4)		NE	Existing		138		NE	NE	Platform	

= estimated value based on survey documentation and photos

NOTE:

INFORMATION BASED ON TAIT COMMUNICATIONS' DOCUMENT DATED 08/11/2025 PROVIDED BY MARION COUNTY.

PROVISIONAL

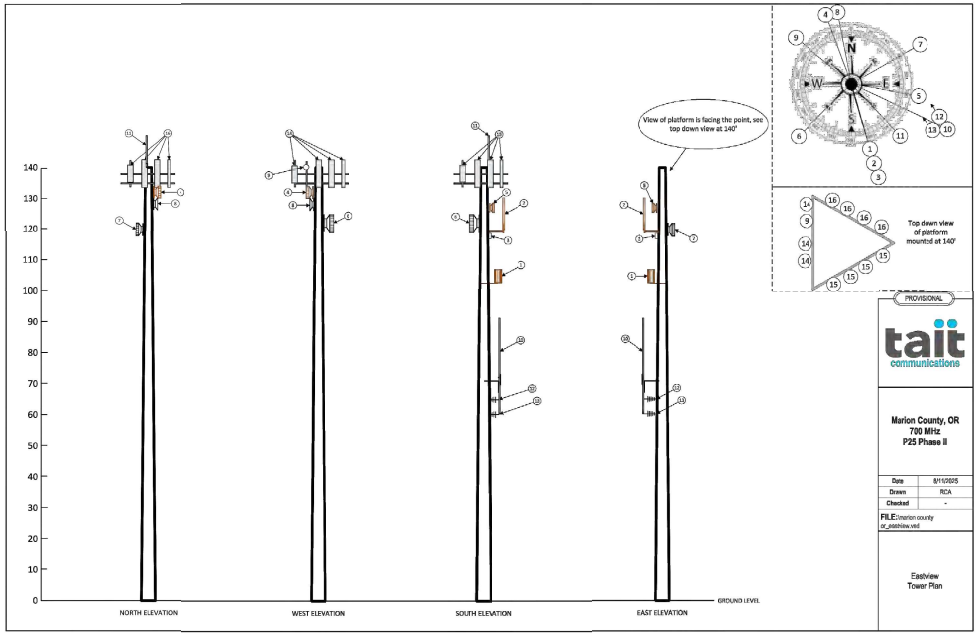
tait communications

Marion County, OR
700 MHz
P25 Phase II

Date	8/11/2025
Drawn	RDA
Checked	-

FILE: marion county or_eastview.vwd

Eastview
Appurtenance Chart



PROVISIONAL

tait communications

Marion County, OR
700 MHz
P25 Phase II

Date	8/11/2025
Drawn	RDA
Checked	-

FILE: marion county or_eastview.vwd

Eastview
Tower Plan

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES I

SHEET NUMBER:

RF-1.0

VHLPX3-11W/A

Base Product



0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.125–11.700 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	0
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	0.9 m | 3 ft

Electrical Specifications

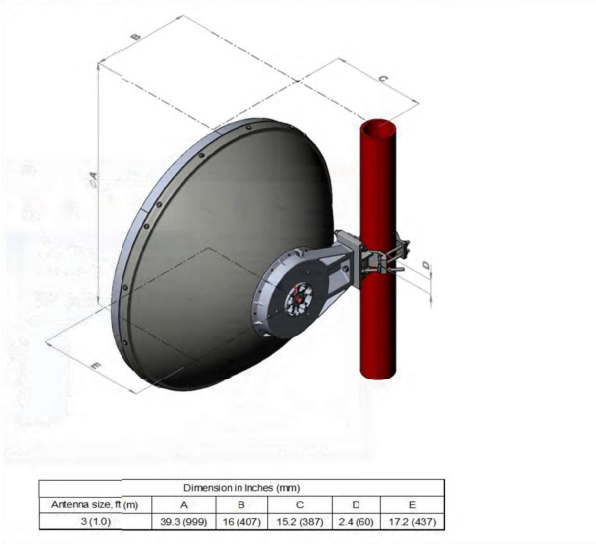
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	37.8 dBi
Gain, Mid Band	38.4 dBi
Gain, Top Band	39 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	64 dB
Beamwidth, Horizontal	2 °
Beamwidth, Vertical	2 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7177A | 7178A
Electrical Compliance	Brazil Anatel Class 2 | Canada SRSP 310.5 | ETSI 302 217 Class 3 | US FCC Part 101A @ 10.55–10.7 GHz | US FCC Part 101A @

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COMMSCOPE®

VHLPX3-11W/A

Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	2903 N | 652.521 lbf
Angle α for MT Max	0 °
Side Force (FS)	1439 N | 323.5 lbf
Twisting Moment (MT)	1179 N-m | 10,435.029 in lb
Zcg without Ice	135 mm | 5.315 in
Zcg with 1/2 in (12 mm) Radial Ice	84 mm | 3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg | 101.413 lb

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NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY
EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES II

SHEET NUMBER:

RF-1.1

VHLPX4-11W/A

Base Product



1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.125–11.700 GHz

Procuct Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	1 inboard
Side Struts, Optional	1 inboard

Dimensions

Diameter, nominal	1.2 m	4 ft

Electrical Specifications

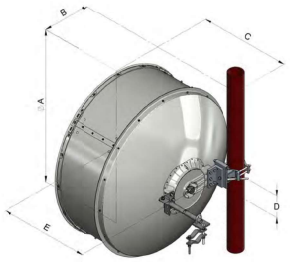
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	40.2 dBi
Gain, Mid Band	40.7 dBi
Gain, Top Band	41 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.6 °
Beamwidth, Vertical	1.6 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7185A
Electrical Compliance	Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7 Part A | Canada SRSP 310.7 Part B | ETSI 302 217 Class

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VHLPX4-11W/A

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (746)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	5326 N | 1,197.333 lbf
Side Force (FS)	2638 N | 593.046 lbf
Twisting Moment (MT)	2162 N-m | 19,135.312 in lb
Force on Inboard Strut Side	2862 N | 643.403 lbf
Zcg without Ice	43 mm | 1.693 in
Zcg with 1/2 in (12 mm) Radial Ice	284 mm | 11.181 in
Weight with 1/2 in (12 mm) Radial Ice	74 kg | 163.142 lb

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LICENSURE:

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83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES III

SHEET NUMBER:

RF-1.2

SINCLAIR
Superior then, Superior now.
A Norsat Company | Norsat International Inc.

Antennas
700-1000 MHz Antennas
SE414-WBAL - PIM Certified Series

SE414-SWBPALDF(D00) Enclosed dipole, 8-11.5 dBd, adj. beamwidth, Low PIM, 746-960MHz

- Wide band design covers whole 746-960 MHz band, PIP rated
- Horizontal beamwidth can be adjusted (60°/90°/105°/130°/160°)
- Gain depends on horizontal beamwidth setting (11.5/10/9/8.5/8 dBd)
- 0-10° electrical downtilt available

One wideband antenna for your 700, 800, 900 MHz systems. Sinclair's SE414-WBL series of enclosed dipole arrays offer excellent intermodulation performance covering 746-960 MHz in a single antenna. These highly versatile antennas are particularly well suited to communication systems where a specific coverage pattern is required. These include cellular systems, trunked radio, paging, and data transmission where predictable and highly reliable performance is a must.

The SE414-WBAL series come with field adjustable reflectors that provide horizontal beamwidths between 60 and 160 degrees. The creative design and construction permits excellent pattern control and greater efficiency.

This antenna shall be mounted in an upright position.
Clamps for mechanical downtilt can be ordered separately.
Electrical downtilt is available upon request.



Antenna may not appear exactly as picture.

www.sinctech.com

SINCLAIR
Superior then, Superior now.
A Norsat Company | Norsat International Inc.

Antennas
700-1000 MHz Antennas
SE414-WBAL - PIM Certified Series

Electrical Specifications

Frequency Range	MHz	746 to 960	
Bandwidth	MHz	214	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	11.5 (13.6)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Directional and Adjustable	
Horizontal beamwidth (typ)	degrees	60	*2
Vertical beamwidth (typ)	degrees	20	
Average Power Input (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	*3
PIP(KW, max)		25	
Lightning protection		DC ground	
Electrical tilt (available)		0 to 10 degrees	
Front-to-back ratio (min)	dB	20	

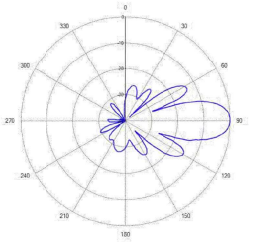
Mechanical Specifications

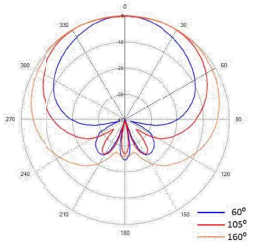
Width	in (mm)	25 (635)	*4
Depth	in (mm)	8.5 (216)	*5
Length/ Height	in (mm)	53 (1346)	
Base pipe diameter	in (mm)	2.88 (73)	*6
Base pipe mounting length	in (mm)	30.6 (776)	
Radiating element material		printed circuit bd	
Weight	lbs (kg)	19.5 (8.85)	
Mounting Hardware (Included)		#130 clamp	
Mounting configurations		upright	
Actual shipping weight	lbs (kg)	24.5 (11.12)	
Shipping dimensions	in (mm)	58x14x17 (1473x356x432)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	4.8 (0.45)
Wind Loading Area (1/2" ice)	ft² (m²)	5.7 (0.53)
Rated wind velocity (no ice)	mph (km/h)	155 (250)
Rated wind velocity (1/2" radial ice)	mph (km/h)	140 (225)
Lateral Thrust (100 mph No Ice)	lbs (N)	180 (800.6)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	93 (125.6)

Notes
*1 : Dependant on reflector setting 10/9/8.5/8 dBd
*2 : 90/105/130/160
*3 : Measured in the receive band: 2 - 20W carriers
*4 : 90° beamwidth configuration, clamp not included in measurement
*5 : 90° beamwidth configuration, clamp not included in measurement
*6 : Ref. clamp maximum





www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Product Specification Sheet SE414-SWBPALDF(D00) Issue: 2 Dated: 24-07-17
EPR 018751 Dated: 16-12-15
Customer Tech Manual 005044

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Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Product Specification Sheet SE414-SWBPALDF(D00) Issue: 2 Dated: 24-07-17
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NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-24-24	PRELIMINARY ZONING DRAWINGS
	11-06-25	PRELIMINARY CONSTRUCTION DRAWINGS
	11-19-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

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www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES IV

SHEET NUMBER:

RF-1.3

800MHz Corporate Collinear Antennas

748-870MHz

CC807 Series

These industry leading, full featured corporate collinear arrays allow site operators to combine, with complete integrity, a large number of communications services into a single, low profile antenna solution.

The corporate feed design employed by RFI maintains superior pattern control, allowing gain to be maximised with zero tilt variation over a very broad bandwidth, comparable to that only previously available in exposed dipole array configurations. This is achieved in the preferred form factor of a fully enclosed fibreglass radome, providing a reduction in wind loading, ice loading and tower loading in comparison.

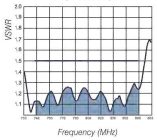
The CC807 series have been designed with an exceptional power rating of 500W across the band as well as a Peak Instantaneous Power (PIP) rating of 25kW to cater for the peak voltage levels present in large multi-carrier combining environments. RFI's refined design processes and proven construction methods achieve a PIM rating of –150dBc, further ensuring performance is maintained for the service life of the antenna.

Features:

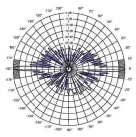
- 500W Continuous Power rating
- -150dBc Passive Intermodulation (PIM) rating, 100% PIM tested
- 25 kW Peak Instantaneous Power (PIP) rating
- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise.
- Light weight dipole construction using RFI's patented flexi-PCB architecture, maintains a low centre of gravity reducing tip deflection and sway
- Field invertible (excluding tilt models)
- Preset downtilt variations of 2 and 4 degrees available, see note (1)



Typical VSWR Response (CC807-12)



CC807-12 - E Plane



Electrical Specifications

Model Number	CC807-09-P	CC807-12-P
Nominal Gain *dBd (dBi)*	9.0 (11.1)	11.5 (13.6)
Frequency *MHz*	746-870	
Tuned Bandwidth *MHz*	Full	
VSWR *(Return Loss)*	1.5:1	
Nominal Impedance Ω	50	
Downtilt°	0 Std 2, 4 (1)	
Vertical Beamwidth°	8	4
Horizontal Beamwidth°	Omni +/- 0.5dB	
Input Power W	500	
Passive IM 3rd order (2x20W) *dBc*	-150	
Peak Instantaneous Power *kW*	25	

Mechanical

Model Number		CC807-09-P	CC807-12-P
Construction		Sky blue fibreglass radome	
Radome Diameter mm (inches)		76 (3.0)	
Length mm (inches)		3135 (123.4)	6235 (245.5)
Weight *kg (lbs)*		14 (30.9)	25.5 (56.2)
Termination		Integrated 4.3-10 Female	
Mountaing Area mm (inches)		750 x 90 (30 x 3.5) diameter Ecoflim™ plated aluminium	
Suggested Clamps		3 x UC-114	
Shipping Dimensions *mm (inches)*	H	115 (4.5)	
	W	115 (4.5)	
	L	3335 (131.3)	6435 (253.3)
Shipping Weight *kg (lbs)*		20.0 (44.1)	36.5 (80.5)
Projected area *cm² (ft²)*	No Ice	2597 (2.8)	5559 (6.0)
	With Ice	3192 (3.4)	7037 (7.6)
Lateral Thrust @166km/h *N* (100 mph lbs)		308 (69)	659 (148)
Wind Gust Rating *km/h (mph)*	No Ice	>240 (150)	
Torque @ 160km/h *Nm* (100mph ft-lbs)		413 (305)	1823 (1345)

(1) To order pre-set downtilt versions available, simply add a -T2 or -T4 towards the end of the part number to denote downtilt model required. For eg. CC807-12-T2-P to order CC807-12-P with 2deg of downtilt. Please note: Models with downtilt are NOT field invertible. . Eg. CC807-12-T2-P

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NOTE: MODEL SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE UPON FINAL RF CONFIGURATION.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY EASTVIEW LANE

4830 EASTVIEW LN NE
SILVERTON , OR 97381

	DATE	RELEASE
	07-19-24	SITE SKETCH
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PLANS PREPARED BY:

cushing Civil Engineers

Cushing Civil Engineers

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SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

RF TOWER APPURTENANCES V

SHEET NUMBER:

RF-1.4

SITE NAME:

METCOM911

1060 MT HOOD AVE, WOODBURN, OR 97071

SHEET INDEX

CONSTRUCTION SUBMITTAL:

T-1	COVER SHEET
EX-1	EXISTING CONDITIONS
G-1	GENERAL NOTES
ER-1	GRADING & EROSION CONTROL PLAN
ER-2	GRADING & EROSION CONTROL DETAILS
C-1	OVERALL SITE PLAN
C-2	ENLARGED SITE PLAN
C-3	ELEVATIONS
C-4	COMPOUND DETAILS
C-5	HVAC DETAILS
C-6	EQUIPMENT SHELTER FOUNDATION PLAN
E-1	SITE GROUNDING PLAN & DETAILS
E-2	GROUNDING DETAILS I
E-3	GROUNDING DETAILS II
RF-1.0	RF TOWER APPURTENANCES I
RF-1.1	RF TOWER APPURTENANCES II

SHELTER ONE PREFABRICATED SHELTER DRAWINGS (REFER TO STATE OF OREGON BUILDING CODES DIVISION FOR STATE INSIGNIA):

SH-1	EQUIPMENT SHELTER EXTERIOR ELEVATIONS
SH-2	EQUIPMENT SHELTER INTERIOR ELEVATIONS
SH-3	ELECTRICAL ONE-LINE DRAWING
SH-4	ELECTRICAL PANEL SCHEDULE

PROJECT INFORMATION

PROPERTY OWNER:
CITY OF WOODBURN
270 MONTGOMERY ST
WOODBURN, OR 97071

TOWER OWNER:
METCOM911
1060 MT HOOD AVE
WOODBURN, OR 97071

COUNTY:
MARION

JURISDICTION:
CITY OF WOODBURN

ZONING:
P/SP (SPECIAL AGRICULTURE)

PARCEL NUMBER(S) & AREA:
ACCOUNT #: 108697
TAXLOT #: 051W08CB04800
399,009.6 SQ FEET±
9.16 ACRES±

PROJECT AREA:
TOTAL COMPOUND AREA - 200 SQ FEET ±
ACCESS DRIVE AND PARKING - EXISTING
TOTAL - 200 SQ FEET ±

PROJECT LOCATION:
*LAT: N 45° 09'03.4" (45.150950)
*LONG: W 122°50'36.5" (-122.843472)
*GROUND ELEVATION (ASML) = 186'±

*INFORMATION OBTAINED FROM GOOGLE EARTH

UTILITY PROVIDERS:
TELCO PROVIDER: N/A
POWER PROVIDER: PORTLAND GENERAL ELECTRIC

GENERAL INFORMATION:
1. TRAFFIC IS UNAFFECTED
2. SIGNAGE AT SITE IS PROPOSED
3. SITE IS UNMANNED AND HANDICAP ACCESS IS NOT REQUIRED

CODE INFORMATION:
1. IBC-2018 INTERNATIONAL BUILDING CODE
2. NEC-2017 NATIONAL ELECTRIC CODE
3. 2019 OREGON STRUCTURAL SPECIALTY CODE
4. 2017 NFPA 58 CODE
5. OCCUPANCY GROUP: U
6. CONSTRUCTION TYPE: II-B

PROJECT INFORMATION CONTINUED

APPLICANT:
MARION COUNTY PUBLIC WORKS
5155 SILVERTON RD NE
SALEM, OR 97305
CONTACT:
BRIAN NICHOLAS
(503) 588-7943
bnicholas@co.marion.or.us

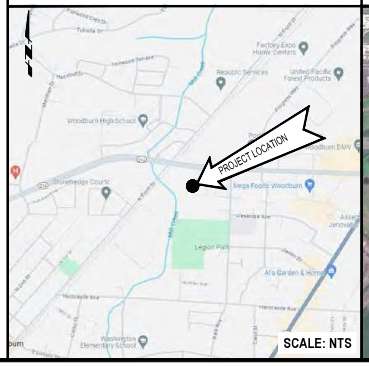
PROJECT MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

CONSTRUCTION MANAGER:
PATRICK HOOVER
(971) 295-0152
phoover@rtspnw.com

ZONING CONTACT:
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CONTACT:
ROB HOWE
(503) 387-5331
rob@cushingcivilengineers.com

ENGINEER OF RECORD:
CUSHING CIVIL ENGINEERS
12725 SW MILLIKAN WAY, STE 300
BEAVERTON, OR 97005
CONTACT:
KENNY MCMANAWAY
(503) 387-5331
kenny@cushingcivilengineers.com

VICINITY MAP



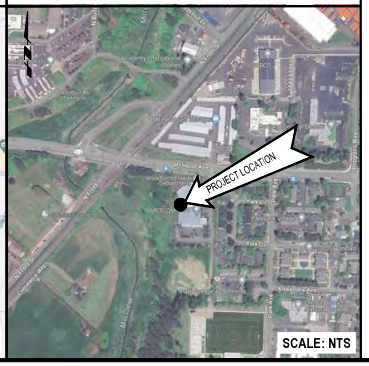
DRIVING DIRECTIONS

FROM MARION COUNTY PUBLIC WORKS BUILDING:

1. GET ON I-5 N IN SALEM FROM CORDON RD NE AND HAZELGREEN RD NE
   9 MIN (4.9 MI)
2. MERGE ONTO I-5 N
   10.9 MI
3. TAKE EXIT 271 FOR OR-214/OR-219 TOWARD WOODBURN/MOLALLA
   0.3 MI
4. TURN RIGHT ONTO OR-214 S/HILLSBORO-SILVERTON HWY NE, PASS BY DAIRY QUEEN GRILL & CHILL (ON THE RIGHT IN 0.2 MI)
   1.8 MI
5. TURN RIGHT AND TAKE ANOTHER RIGHT TURN. DESTINATION WILL BE ON THE RIGHT.
   262 FT

EST. TIME: 26 MINS.
EST. MILEAGE: 18.1 MI

LOCATOR MAP



PROJECT DESCRIPTION

1. PROPOSED MODIFICATION OF AN EXISTING PUBLIC SAFETY COMMUNICATIONS FACILITY FOR MARION COUNTY, OREGON.
2. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT ON AN EXISTING 150' MONOPOLE TOWER:
   * ANTENNAS W/ ASSOCIATED ANCILLARY EQUIPMENT
3. PROPOSED INSTALLATION OF THE FOLLOWING EQUIPMENT WITHIN EXISTING GROUND SPACE:
   * (1) 10'x12' EQUIPMENT SHELTER
   * (1) ICE BRIDGE

MARION COUNTY
OREGON

PROJECT INFORMATION:

MARION COUNTY
METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

	DATE	RELEASE
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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER
83233
OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

T-1

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSED ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.

2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.

3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITTING.

4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

8. THE CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.

9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES, THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THE CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO EQUAL OR BETTER NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE OWNERS REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.

12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.

13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.

14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROJECT MANAGER WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.

15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.

16. THIS IS AN ESSENTIAL FACILITY THEREFORE SHALL STRICTLY MEET ALL APPLICABLE CODE AND JURISDICTIONAL REQUIREMENTS.

GENERAL NOTES CONTINUED:

17. THE CONTRACTOR SHALL PERFORM WORK DURING SITE/PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

18. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.

21. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE PROJECT MANAGER PRIOR TO STARTING WORK.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (UNO).

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD (UNO).

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER .....2 IN.
#5 AND SMALLER & WWF .....1-1/2 IN.

5. A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE (UNO). HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB.

6. INSTALLATION OF CONCRETE EXPANSION AND WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

7. FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM EQUIPMENT.

SITE WORK NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY UNLESS OTHERWISE REQUIRED TO BE LEFT AS DEFINED BY LAND/PROPERTY OWNER.

2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, EQUIPMENT SHELTER, GENERATOR, FUEL TANK, TOWER AREAS, AND ADJACENT BUILDINGS, ETC.

3. 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.

4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION. FABRIC USE AS REQUIRED.

5. ALL APPLICABLE LOCATES SHALL BE PERFORMED PRIOR TO TO ANY EXCAVATION OR SITE GRADING. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.

7. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK..

8. BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TP COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER; GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION:

SIEVE SIZE	PERCENT PASSING
	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

9. BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL, CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE.

SITE WORK NOTES CONTINUED:

10. ALL SITE DESIGN AND CONSTRUCTION MUST COMPLY WITH INDUSTRY STANDARDS AND BE ALIGNED WITH BMP GUIDELINES AS TECHNICALLY APPLICABLE. EACH SITE MUST BE PM APPROVED BEFORE IT SHALL BE CONSIDERED COMPLETE AND ACCEPTED.
11. IF INADVERTENT DISCOVERIES OF NATIVE AMERICAN CULTURAL MATERIALS OR HUMAN REMAINS ARE MADE DURING CONSTRUCTION, ALL WORK SHOULD CEASE AND POTENTIALLY AFFECTED TRIBES, AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE, SHOULD BE NOTIFIED IMMEDIATELY.

TOWER/POLE NOTES:

1. ALL ANTENNAS, LINES AND RELATED INSTALLATION HARDWARE TO BE PROVIDED BY THE LAND MOBILE COMMUNICATIONS PROVIDER.

2. ALL HARDWARE (NUTS AND BOLTS) BE TIGHTENED AND TORQUED IN ACCORDANCE WITH THE TOWER MANUFACTURER'S AND STRUCTURAL ENGINEER'S SPECIFICATIONS.

3. VERIFICATION THAT THE TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.

4. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ATTENTION (OREGON SITES ONLY):

CALL 1-800-332-2344 48 HOURS BEFORE YOU DIG, OREGON LAW REQUIRES YOU TO FOLLOW OAR 952-001-0010 THRU 952-001-0090. COPIES ARE AVAILABLE AT THE OREGON UTILITY NOTIFICATION CENTER 503-232-1987

DESIGN LOADS:

ROOF SNOW LOAD DATA -	GROUND SNOW LOAD:	66 PSF*
	FLAT-ROOF SNOW LOAD:	N/A
	SNOW EXPOSURE FACTOR:	N/A
	SNOW LOAD IMPORTANCE FACTOR:	N/A
	THERMAL FACTOR:	N/A
WIND DESIGN DATA -	ULTIMATE DESIGN WIND SPEED:	107 MPH*
	RISK CATEGORY:	IV
	WIND EXPOSURE:	C*
	INTERNAL PRESSURE COEFFICIENT:	N/A
	DESIGN WIND PRESSURES;	
	WIND LOAD HORIZONTAL (MWFRS):	N/A
	WIND LOAD (UPLIFT) (MWFRS):	N/A
EARTHQUAKE DESIGN DATA -	RISK CATEGORY:	IV
	SEISMIC IMPORTANCE FACTOR:	N/A
	MAPPED SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_s:	0.93*
	S_1:	0.36*
	SITE CLASS:	D*
	DESIGN SPECTRAL RESPONSE ACCEL-ERATION PARAMETERS;	
	S_{DS}	0.77*
	S_{D1}	0.52*
	SEISMIC DESIGN CATEGORY:	D
	BASIC SEISMIC FORCE-RESISTING	
SYSTEM-	BEARING WALL	
	DESIGN BASE SHEAR:	N/A
	SEISMIC RESPONSE COEFFICIENT:	N/A
	RESPONSE MODIFICATION COEFFICIENT:	N/A
	ANALYSIS PROCEDURE USED:	N/A
GEOTECHNICAL INFORMATION -	ALLOWABLE BEARING CAPACITY:	N/A

*INFORMATION OBTAINED FROM ASCE 7 HAZARD TOOL

SYMBOLS LEGEND

- REVISION
- KEY NOTE DETAIL
- REFERENCE ELEVATION (3 / C-4)
- SECTION REFERENCE (A / C-3)
- ELEVATION DATUM POINT

CHAINLINK FENCE
CEDAR FENCE
PROPANE (LPG)
UNDERGROUND POWER (P)
OVERHEAD POWER (OHP)
TELCO (T)
POWER/TELCO (T/P)
GAS (G)
WATER (W)
COAX (COAX)
CENTERLINE
EASEMENT
PROPERTY LINE
SUBJECT PROPERTY LINE

ABBREVIATIONS LEGEND

A/C	AIR CONDITIONING	MET, MTL	METAL
ADJ	ADJUSTABLE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MGR	MANAGER
AGL	ABOVE GRADE LEVEL	MIN	MINIMUM
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	N	NORTH
		NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	OC, o/c	ON CENTER
BMR	BASE MOBILE RADIO	OD	OUTSIDE DIAMETER
B/S	BUILDING STANDARD	OPG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	OHP	OVERHEAD POWER
CONC	CONCRETE	UGP	UNDRGRND POWER
CONST	CONSTRUCTION	OHT	OVERHEAD TELCO
CONT	CONTINUOUS	UGT	UNDRGRND TELCO
DBL	DOUBLE	PR	PAIR
DIA, Ø	DIAMETER	PROJ	PROJECT
DIAG	DIAGONAL	PROP	PROPERTY
DIM	DIMENSION	P	PROPOSED
DN	DOWN	PT	PRESSURE TREATED
DTL, DETL	DETAIL	REQ'D	REQUIRED
DWG	DRAWING	RM	ROOM
E	EAST	R.O.	ROUGH OPENING
EA	EACH	S	SOUTH
EL, ELEV	ELEVATION	SHT	SHEET
ELECT	ELECTRICAL	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ	SQUARE
E.W.	EACH WAY	SS	STAINLESS STEEL
EX	EXISTING	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FIN	FINISH	SUSP	SUSPENDED
FLUOR	FLUORESCENT	S.V.	SHEET VINYL
FLR	FLOOR	THRU	THROUGH
FT	FOOT	TNND	TINNED
GA	GAUGE	T.O.C.	TOP OF CONCRETE
GALV	GALVANIZE(D)	T.O.M.	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GRND	GROUND	U.N.O.	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
GYP BD	GYPSUM BOARD	VIF	VERIFY IN FIELD
HARDWD	HARDWOOD	VT	VINYL TILE
HORIZ	HORIZONTAL	W	WEST
HR	HOUR	W/	WITH
HT	HEIGHT	WIN	WINDOW
HVAC	HEATING, VENTING AND AIR CONDITIONING	W/O	WITHOUT
		WP	WATERPROOF
I.D.	INSIDE DIA.	∠	ANGLE
IN	INCH	&	AND
INFO	INFORMATION	℄	CENTER LINE
INSUL	INSULATION	℞	PROPERTY LINE
INT	INTERIOR	@	AT
LB(S)	POUND(S)	#	NUMBER
LNA	ANTENNA AMPLIFIER		
MAX	MAXIMUM		
MECH	MECHANICAL		

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-29-24	PRELIMINARY ZONING DRAWINGS
	06-25-25	PRELIMINARY CONSTRUCTION DRAWINGS
	10-13-25	FINAL CONSTRUCTION DRAWINGS

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cushing Civil Engineers

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BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAN

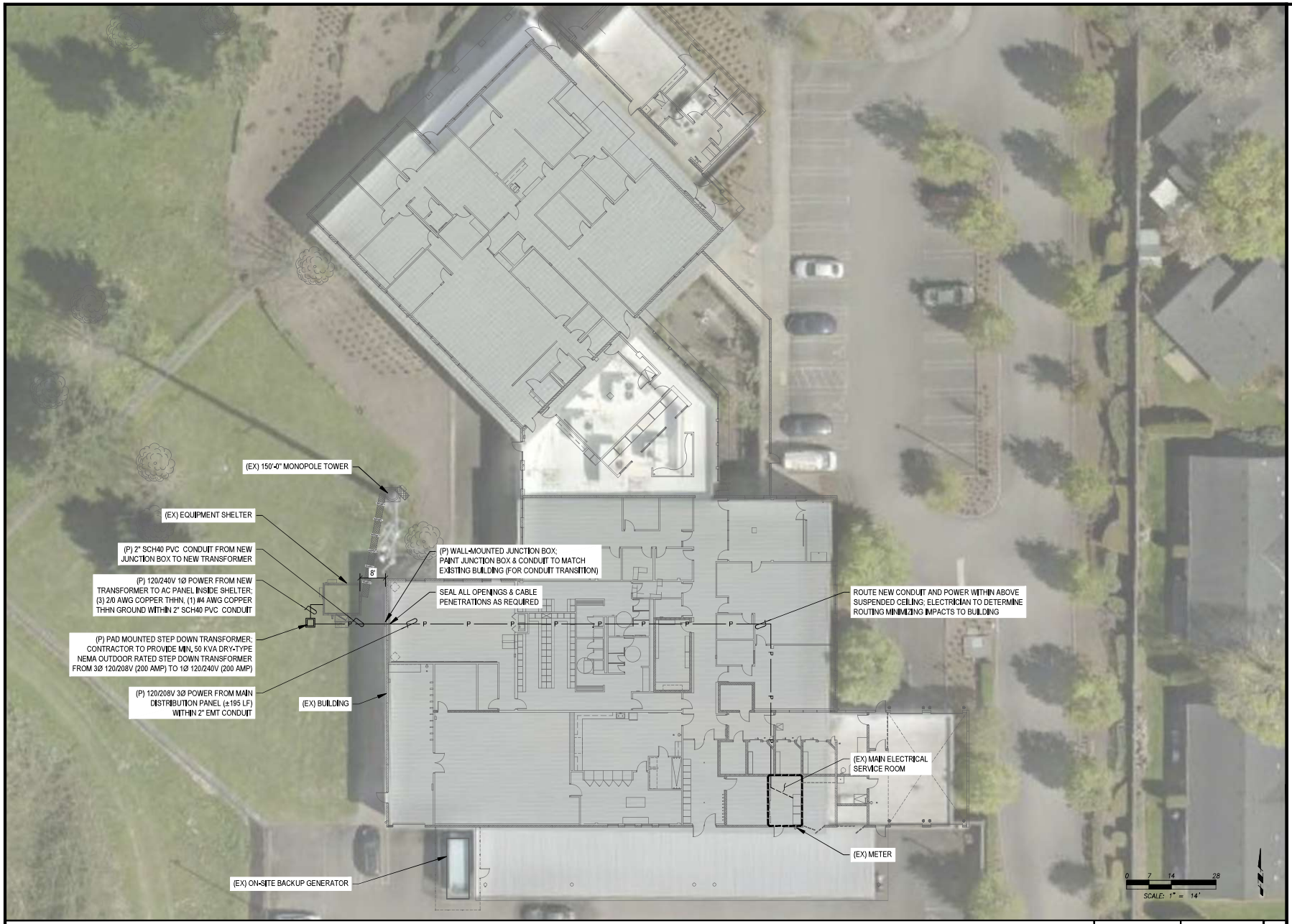
RENEWAL DATE 12/31/26

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

G-1



POWER ROUTE PLAN | 11X17 SCALE: 1" = 28' | 22X34 SCALE: 1" = 14' | 1

Marion County OREGON

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	11-11-25	POWER ROUTE PLAN

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OREGON
JUNE 7, 2012
KENNY McMANAWAY

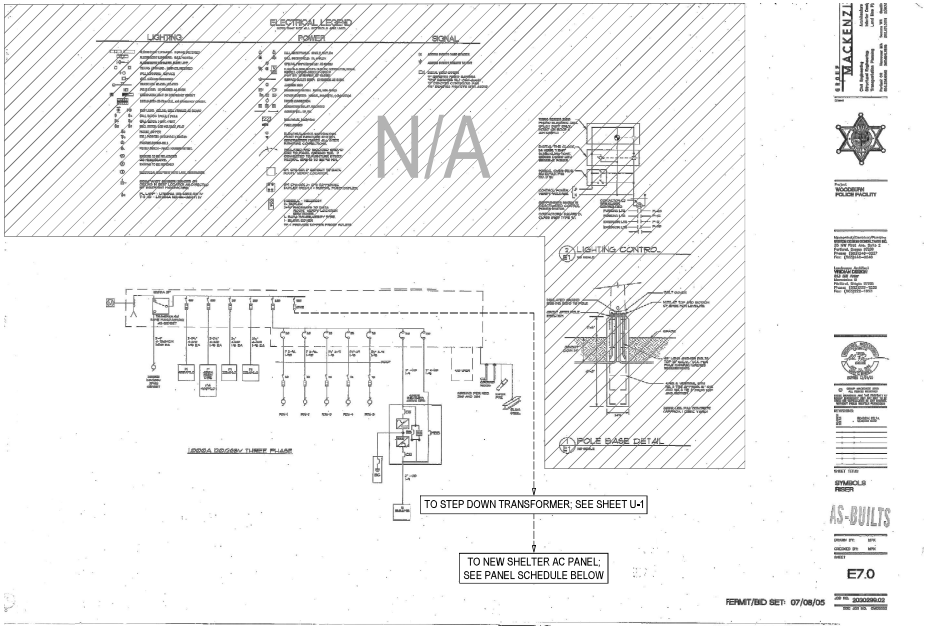
RENEWAL DATE 12/31/26

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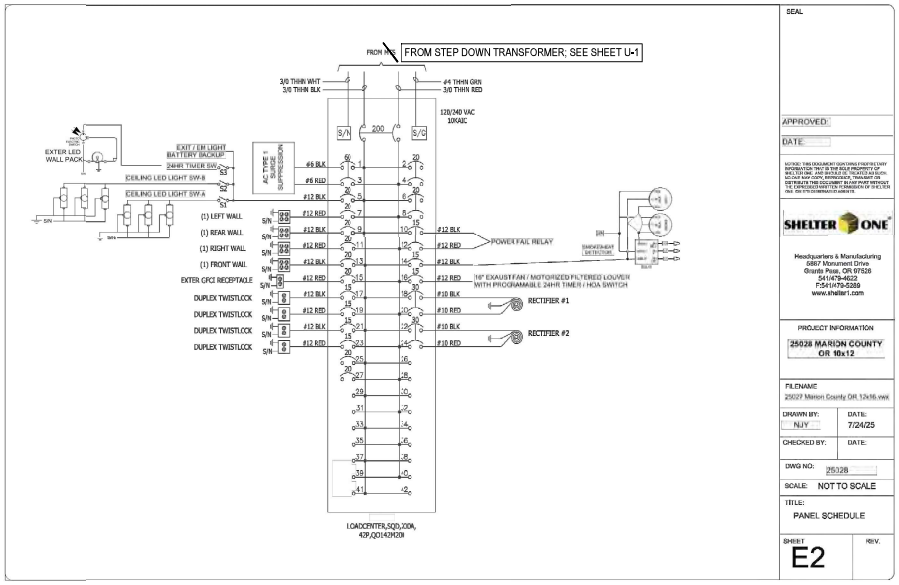
POWER ROUTE PLAN

SHEET NUMBER:

U-1



EXISTING BUILDING ONE-LINE DIAGRAM SCALE: NTS **1**



NEW SHELTER PANEL SCHEDULE SCALE: NTS **2**

Marion County
OREGON

PROJECT INFORMATION:

MARION COUNTY
METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

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OREGON
JUNE 7, 2012
KENNY McMANAWAY

RENEWAL DATE 12/31/26

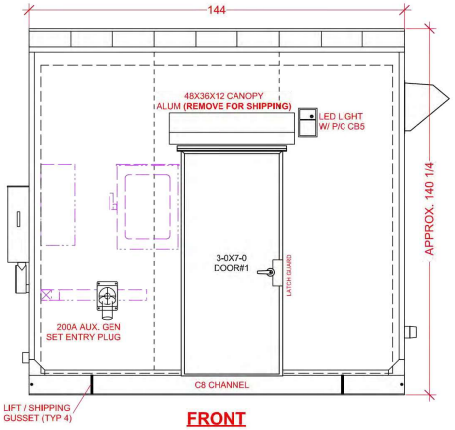
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ONE-LINE DIAGRAM

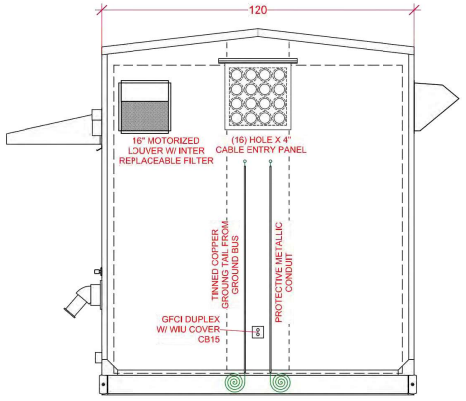
SHEET NUMBER:

U-2

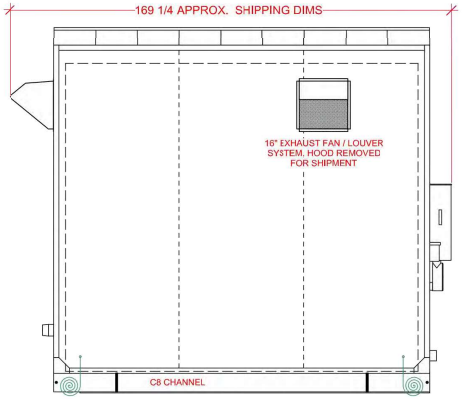
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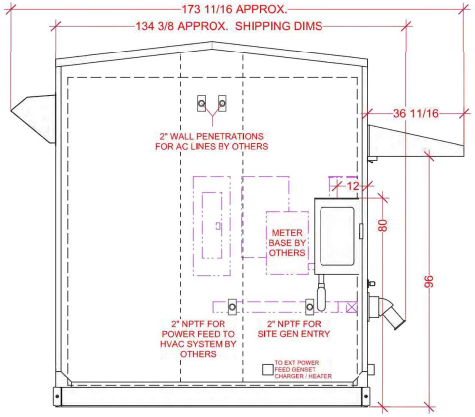
FRONT



RIGHT

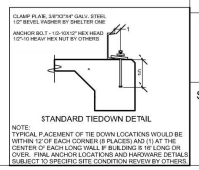


REAR



LEFT

NOTES:
1. SHELTER IS DESIGNED FOR A SLAB TYPE FOUNDATION.
2. EXTERIOR CLADDING TO BE 24 GA. PREFINISHED STEEL, COLOR - (TBD).
3. EXTERIOR TRIM TO BE MATCHING 24GA STEEL TRIM
4. SKID TO BE EPOXY PAINTED COLOR - (TBD).
5. 24GA PRE-FINISHED STEEL STANDING SEAM ROOF SYSTE - COLOR - (TBD)



NOTE:
TYPICAL PLACEMENT OF TIE DOWN LOCATIONS WOULD BE WITHIN 12" OF EACH CORNER (8 PLACES) AND (1) AT THE CENTER OF EACH LONG WALL IF BUILDING IS 16' LONG OR OVER. FINAL ANCHOR LOCATIONS AND HARDWARE DETAILS SUBJECT TO SPECIFIC SITE CONDITION REVIEW BY OTHERS.

SEAL

APPROVED:

DATE:

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5887 Monument Drive
Grants Pass, OR 97526
541/479-4622
F:541/479-5289
www.shelter1.com

PROJECT INFORMATION

25028 MARION COUNTY OR 10x12

FILENAME
25028 Marion County OR 10x12.vwx

DRAWN BY:	DATE:
NJY	7/24/25
CHECKED BY:	DATE:

DWG NO: 25028

SCALE: 1:40

TITLE:
EXTERIOR ELEVATIONS

SHEET A1 REV.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

	DATE	RELEASE
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LICENSURE:

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RENEWAL DATE 12/31/26

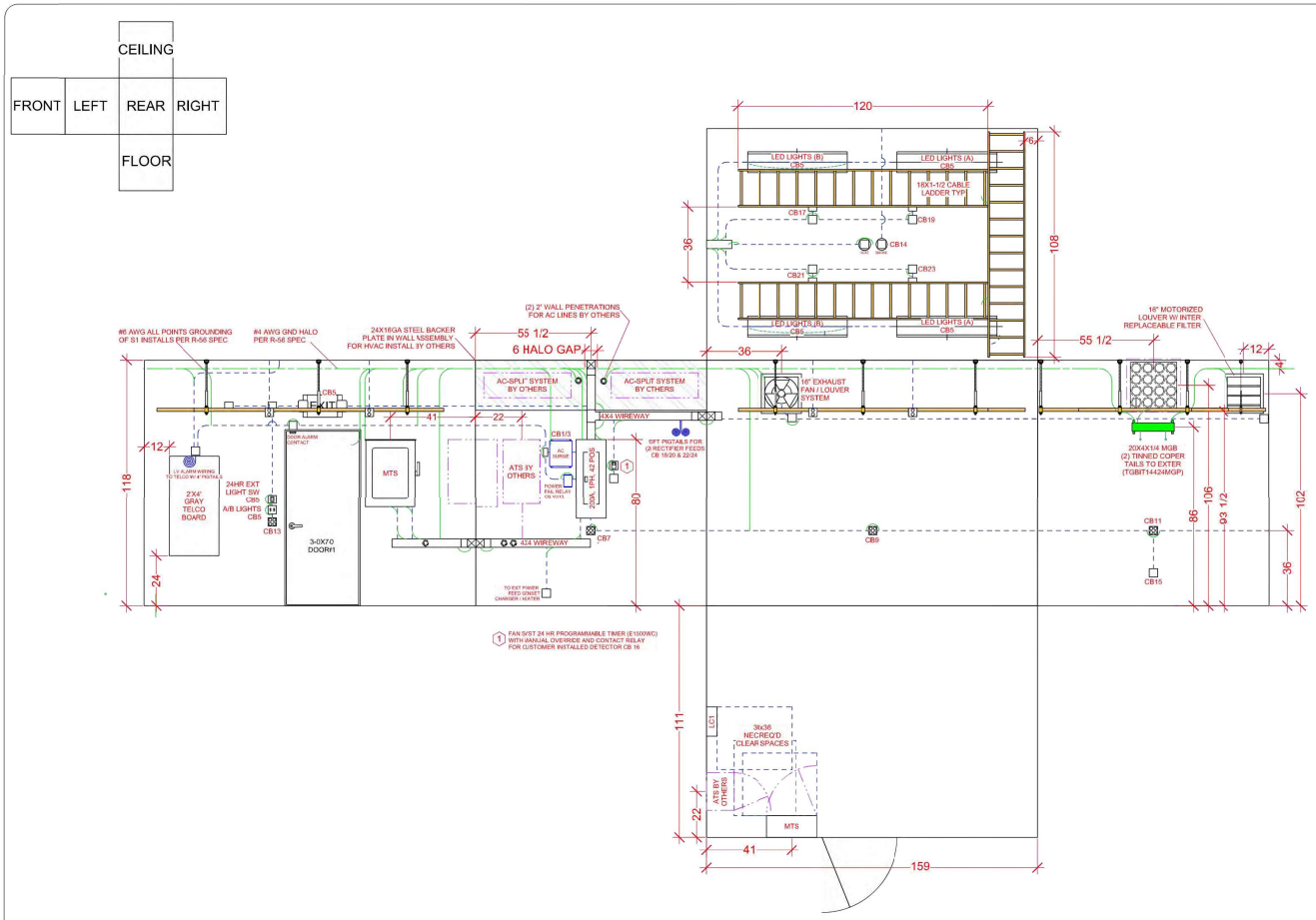
SHEET TITLE:

EQUIPMENT SHELTER EXTERIOR ELEVATIONS

SHEET NUMBER:

SH-1

NOTE:
INFORMATION BASED ON SHELTER ONE PREFABRICATED EQUIPMENT SHELTER DRAWINGS. REFER TO STATE OF OREGON BUILDING CODES DIVISION FOR STATE INSIGNIA.



NOTES:
1. ALL CONDUIT TO BE TYPE EMT, SURFACE MOUNTED, MINIMUM SIZE 1/2" UNLESS NOTED OTHERWISE; UPSIZING PERMITTED.
2. CONDUIT LOCATIONS INDICATED BY DASHED LINES ARE SUGGESTED AND MAY BE MODIFIED (+ or - 3").
3. DIRECTIONS ARE ARBITRARY FOR SHOP ORIENTATION ONLY AND DO NOT RELATE TO ACTUAL SITE DIRECTIONS.
4. INTERIOR CLADDING TO BE FRP, COLOR - (STANDARD WHITE).
5. FLOORING TO BE .COMMERCIAL GRADE VINYL TILE OVER 1/4" STEEL FLOOR PLATE.
6. GROUNDING HALO AND ALL POINTS GROUNDING TO MEET R-56 STANDARDS

SEAL

APPROVED:

DATE:

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PROJECT INFORMATION

25028 MARION COUNTY OR 10x12

FILENAME
25027 Marion County OR 12x16.vwx

DRAWN BY:	DATE:
NJY	7/24/25
CHECKED BY:	DATE:

DWG NO: 25028

SCALE: 1:50

TITLE: INTERIOR ELEVATIONS

SHEET A2 | REV.

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

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LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAN

RENEWAL DATE 12/31/26

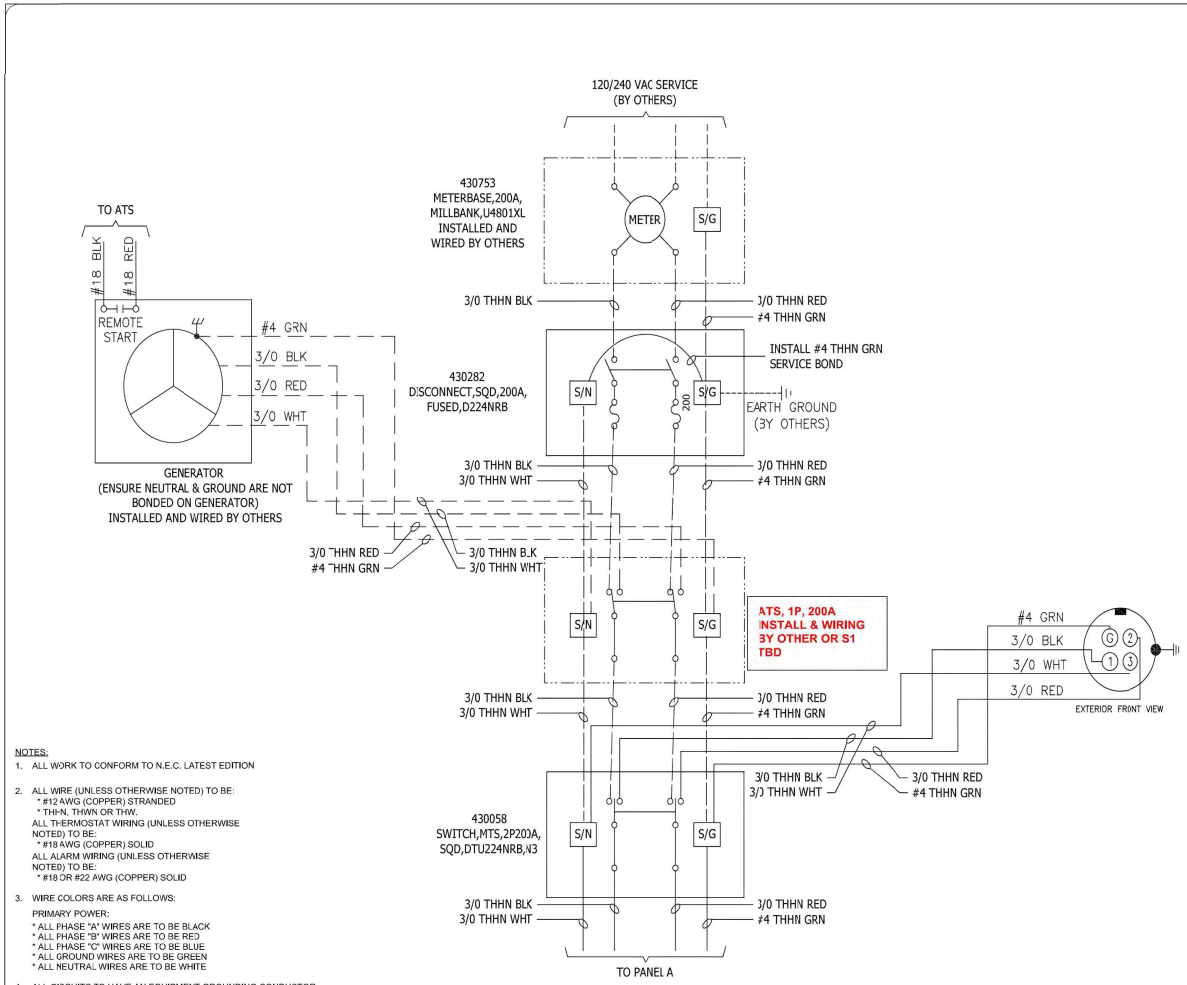
SHEET TITLE:

EQUIPMENT SHELTER INTERIOR ELEVATIONS

SHEET NUMBER:

SH-2

NOTE:
INFORMATION BASED ON SHELTER ONE PREFABRICATED EQUIPMENT SHELTER DRAWINGS. REFER TO STATE OF OREGON BUILDING CODES DIVISION FOR STATE INSIGNIA.



NOTES:

1. ALL WORK TO CONFORM TO N.E.C. LATEST EDITION
2. ALL WIRE (UNLESS OTHERWISE NOTED) TO BE:
   * #12 AWG (COPPER) STRANDED
   * THHN, THWN OR THW.
   ALL THERMOSTAT WIRING (UNLESS OTHERWISE NOTED) TO BE:
   * #18 AWG (COPPER) SOLID
   ALL ALARM WIRING (UNLESS OTHERWISE NOTED) TO BE:
   * #18 OR #22 AWG (COPPER) SOLID
3. WIRE COLORS ARE AS FOLLOWS:
   PRIMARY POWER:
   * ALL PHASE "A" WIRES ARE TO BE BLACK
   * ALL PHASE "B" WIRES ARE TO BE RED
   * ALL PHASE "C" WIRES ARE TO BE BLUE
   * ALL GROUND WIRES ARE TO BE GREEN
   * ALL NEUTRAL WIRES ARE TO BE WHITE
4. ALL CIRCUITS TO HAVE AN EQUIPMENT GROUNDING CONDUCTOR
5. —— DASHED LINES DENOTE FIELD WORK.
6. NEUTRAL AND GROUND ARE TO BE BONDED AS REQUIRED
7. NO TAPS, SPLICES, OR JOINTS ARE TO BE MADE WITHIN WIREWAYS.

COPPER WIRE SIZE

EREAKER SIZE	MINIMUM WIRE SIZE
15A	12 AWG
20A	12 AWG
30A	10 AWG
40A	8 AWG
50A	8 AWG
60A	6 AWG
70A	4 AWG
80A	4 AWG
90A	3 AWG
100A	3 AWG
125A	1 AWG
150A	1/0
200A	3/0

SERVICE ENTRY GROUND WIRE SIZE

ENTRY WIRE SIZE	GROUND WIRE SIZE
2 AWG OR SMALLER	8 AWG
1 AWG OR 1/0	6 AWG
2/0 OR 3/0	4 AWG

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APPROVED:

DATE:

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FILENAME
25027 Marion County OR 12x16.vwx

DRAWN BY:	DATE:
NJY	7/24/25
CHECKED BY:	DATE:

DWG NO: 25028

SCALE: NOT TO SCALE

TITLE:
POWER LINE DRAWING

SHEET E1 | REV.

Marion County OREGON

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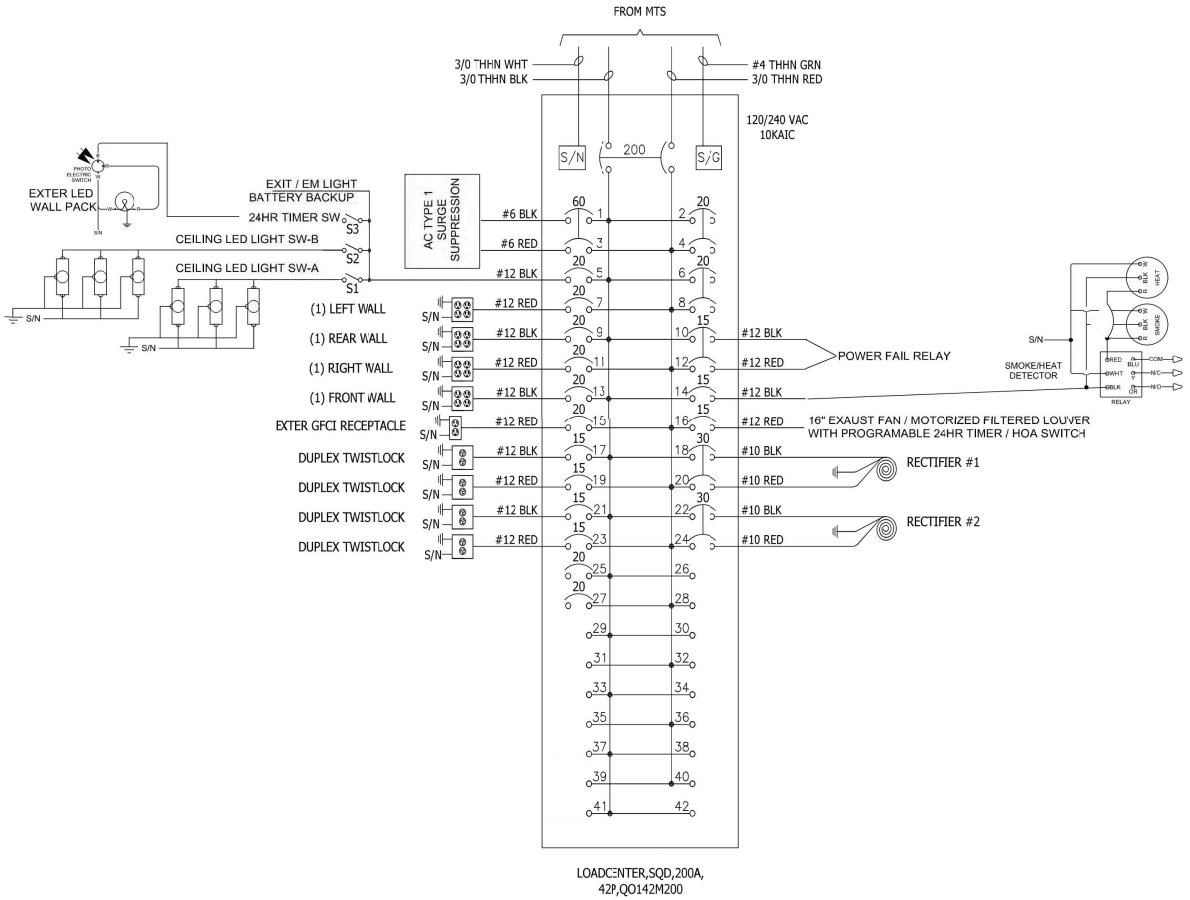
SHEET TITLE:

ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER:

SH-3

NOTE:
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DATE:

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SHELTER ONE

Headquarters & Manufacturing
5887 Monument Drive
Grants Pass, OR 97526
541/479-4622
F:541/479-5289
www.shelter1.com

PROJECT INFORMATION

25028 MARION COUNTY OR 10x12

FILENAME
25027 Marion County OR 12x16.vwx

DRAWN BY:	DATE:
NJY	7/24/25
CHECKED BY:	DATE:

DWG NO: 25028

SCALE: NOT TO SCALE

TITLE:
PANEL SCHEDULE

SHEET	REV.
E2	

Marion County OREGON

PROJECT INFORMATION:

MARION COUNTY METCOM911

1060 MT HOOD AVE
WOODBURN, OR 97071

	DATE	RELEASE
	07-19-24	SITE SKETCH
	10-29-24	PRELIMINARY ZONING DRAWINGS
	06-25-25	PRELIMINARY CONSTRUCTION DRAWINGS
	10-13-25	FINAL CONSTRUCTION DRAWINGS

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PLANS PREPARED BY:

cushing Civil Engineers

Cushing
Civil Engineers
12725 SW MILLIKAN WAY
SUITE 300
BEAVERTON, OR 97005
(503) 387-5331
www.cushingcivilengineers.com

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER 83233 OREGON JUNE 7, 2012 KENNY McMANAMAN

RENEWAL DATE 12/31/26

SHEET TITLE:

ELECTRICAL PANEL SCHEDULE

SHEET NUMBER:

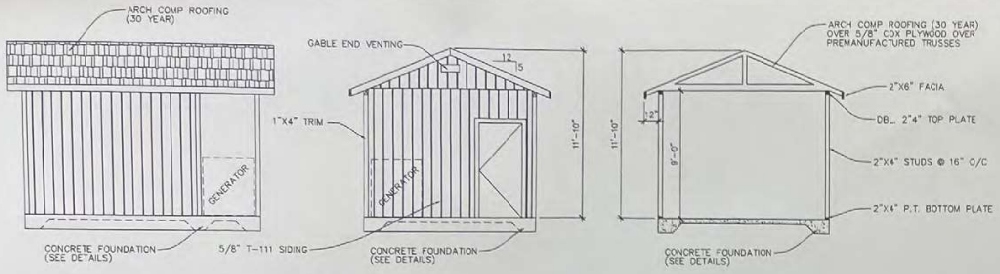
SH-4

PW1791-26 ATTACHMENT C

14-000588

RECEIVED
MAR 12 2014
MARION COUNTY
BUILDING INSPECTION

FILE R

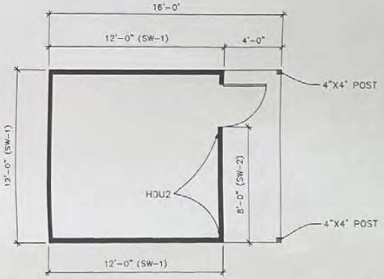


SIDE/FRONT ELEVATIONS

1/4"=1'-0"

CROSS SECTION

1/4"=1'-0"



FLOOR PLAN/SW LAY-OUT

1/4"=1'-0"

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987.

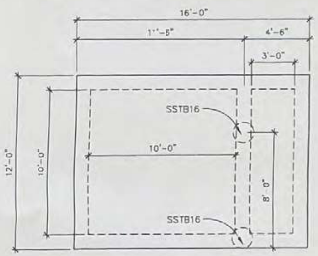
REVIEWED FOR CODE COMPLIANCE - 2010 OREGON Structural SPECIALTY CODE

Read All Applicable SEE PLAN REVIEW

Shear Wall Schedule

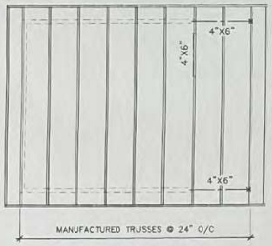
WALL MARK	SHEATHING	EDGE NAILING	FIELD NAILING	ANCHOR BOLTS	HOLD-DOWN	HOLD-DOWN ANCHORAGE	ALLOWABLE SHEAR plf	ALLOWABLE SHEAR plf
SW-1	7/16" OSB	8d @ 6"	8d @ 12"	1/2"X7"@ 48" O/C	NONE	NONE	270	1000
SW-2	7/16" OSB	8d @ 6"	8d @ 12"	1/2"X7"@ 48" O/C	HDU2	SSTB16	270	3075

Notes
1. USE 2X TREATED SILL PLATE. USE 3"X3"x.229" WASHERS WITH ALL ANCHOR BOLTS



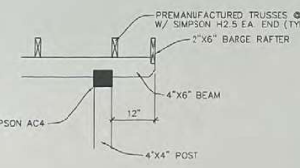
FOUNDATION PLAN

1/4"=1'-0"



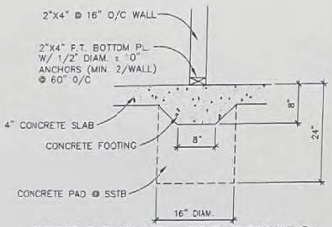
ROOF FRAMINGG PLAN

1/4"=1'-0"



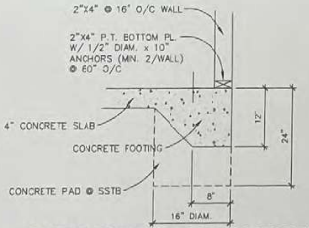
DETAIL "C"

3/4"=1'-0"



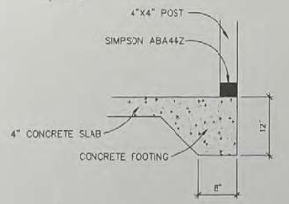
INTERIOR FOOTING

NTS



PERMITER FOOTING

NTS



POST FOOTING

NTS

GENERAL NOTES:

1. [redacted]
2. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE ENGINEER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.
3. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
4. ALL EXTERIOR WALLS TO BE BUILT OF 2"X STUDS @ 16" O.C. TYPICALLY UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS ARE TO BE BUILT OF 2"X STUDS @ 16" O.C. TYPICALLY UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SUPPORTING TWO OR MORE FLOORS AND 1 OR MORE ROOF/CEILING ASSEMBLIES SHALL BE 2X6 STUDS @ 16" O.C. FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDDING ABOVE. WHEN EXCEEDING 4'-0" IN HEIGHT, SUCH WALL SHALL BE FRAMED OF STUDS HAVING THE SIZE REQUIRED FOR AN ADDITIONAL STORY.
5. DESIGN LOADS:

ROOF (LIVE LOAD)	25 PSF
ROOF TOTAL LOAD (SHAKE/COMP)	40 PSF
ROOF TOTAL LOAD (TILE MATERIAL)	45 PSF
FLOOR	50 PSF
STAIRS	100 PSF
GARAGE FLOOR (2,000# POINT)	50 PSF
DECKS	40 PSF
BALCONIES (EXT.)	60 PSF
ATTIC STORAGE (C.G. JST)	30 PSF

FOUNDATION NOTES:

1. FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE.
2. SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.
3. MAXIMUM SLOPE OF CUTS AND FILLS TO BE TWO (2) HORIZONTAL TO ONE (1) VERTICAL FOR BUILDING, STRUCTURES, FOUNDATIONS AND RETAINING WALLS.
4. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MIN. OF 4" IN GRANULAR MATERIAL COMPACTED TO 95%.
5. CONCRETE: – MIX AND 28 DAY STRENGTH OF CONCRETE.

– BASEMENT WALLS & FOUNDATIONS – NOT EXPOSED TO WEATHER:	2,500 PSI
– BASEMENT & INTERIOR – SLABS ON GRADE:	2,500 PSI
– BASEMENT WALLS & FOUNDATIONS – NOT EXPOSED TO WEATHER:	3,000 PSI
– PORCHES, STEPS, & CARPORT – SLABS EXPOSED TO WEATHER:	3,500 PSI

(AS PER APPENDIX CHAPTER 19, TABLE A-19-A)
MORTAR & GROUT TO BE MIXED PER MFR. REQUIREMENTS.

5. GARAGE FLOORS TO SLOPE 1/4"/FT MIN. TOWARDS OPENING AS REQUIRED FOR BRAINAGE. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' FT. (MAX.) INTERVALS EA. WAY.
7. CONCRETE SIDEWALKS TO HAVE 1/2" IN. TOOLED JOINTS AT 5' FT. (MIN.) O.C.
8. REINFORCING STEEL TO BE A-615 GRADE 60. WELDED OPTIONAL WIRE MESH TO BE A-185.
9. EXCAVATE SITE TO PROVIDE A MIN. OF 18" CLEARANCE UNDER ALL FLOOR BEAMS.
10. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 55# ROLL ROOFING.

FRAMING NOTES:

1. ALL EXTERIOR WALL OPENINGS & BEARING WALL OPENINGS TO HAVE HEADERS AS SHOWN ON THE PLANS.
2. ALL EXTERIOR WALLS TO BE BUILT OF 2"X STUDS @ 16" O.C. TYPICALLY UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS ARE TO BE BUILT OF 2"X STUDS @ 16" O.C. TYPICALLY UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SUPPORTING TWO OR MORE FLOORS AND 1 OR MORE ROOF/CEILING ASSEMBLIES SHALL BE 2X6 STUDS @ 16" O.C. FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDDING ABOVE. WHEN EXCEEDING 4'-0" IN HEIGHT, SUCH WALLS SHALL BE FRAMED OF STUDS HAVING THE SIZE REQUIRED FOR AN ADDITIONAL STORY UNLESS SPECIFIED OTHERWISE.
3. ALL METAL CONNECTIONS TO BE "SIMPSON" OR EQUIVALENT. U.N.O. JOISTS HUNG ON FLUSH BEAMS TO BE ATTACHED WITH U210 OR EQUIVALENT. MULTIPLE JOISTS USE U210-2/U210-3 AS REQUIRED. USE OF 10d(1 1/2") NAILS ARE ALLOWED WITH THESE TYPE OF HANGERS UNLESS NOTED ON THE PLANS. SEE NAIL CONVERSION CHART FROM CURRENT SIMPSON CATALOG FOR OTHER NOTES AND RESTRICTIONS THAT MAY APPLY.
4. PROVIDE DOUBLE JOISTS UNDER ALL WALLS ABOVE, RUNNING PARALLEL TO JOISTS AND SOLID BLOCKING BELOW ALL BEARING WALLS RUNNING PERPENDICULAR TO FLOOR JOISTS.
5. PROVIDE POSITIVE VENTILATION AT EACH END OF EACH RAFTER SPACE AT VAULTED CLG. AREAS, AND INSULATION BAFFLES AT EAVE VENTS BETWEEN RAFTERS. RAFTERS VENTILATION IS ALSO REQUIRED AT BLOCKING LOCATIONS ABOVE THE PLATE.
6. RIDGE BOARDS, HIPS, AND VALLEYS SHALL BE NOT LESS THAN IN DEPTH THAN THE CUT END OF THE RAFTER.
7. PROVIDE FIRE BLOCKING, DRAFT STOPS, & FIRE STOPS AS PER THE ORSC.
8. HIPS, VALLEY'S AND RIDGES SHALL NOT BE LESS IN DEPTH THAN THE END CUT OF THE RAFTER.
9. LUMBER SPECS:

A. POSTS, BEAMS, HEADERS, JOISTS AND RAFTERS	NO. 2 DOUGLAS FIR
B. SILLS, PLATES, BLOCKING BRIDGING ETC.	NO. 3 DOUGLAS FIR
C. STUDS	STUD GRADE B/F.
D. STUDS OVER 10' HIGH	NO. 2 OR BETTER D/F.
E. POST & BEAM DECKING	UTILITY GRADE D/F
F. PLYWOOD SHEATHING	\" CDX PLY, 32/16
G. GLU-LAM BEAMS (EXT. ADH @ EIT CONDITIONS)	Fb-2400, DRY ADH.
H. PSL MATERIALS *	Fb = 2900 E = 2.0 Fv = 290
I.VL MATERIALS **	Fb = 2600 E = 1.8 Fv = 285

*. PSL INDICATES PARALLEL STRAND LUMBER
**. LVL INDICATES LAMINATED VENEER LUMBER

10. NAILING SCHEDULE:

JOIST TO SILL OR GIRDER	3–8d	TOE NAIL
BRIDGING TO JOIST	2–8d	TOE NAIL
2" SUBFLOOR TO GIRDER	2–16d	BLIND & FACE
SOLE PL. TO JOIST	16d @ 16" O.C.	FACE NAIL
TOP P... TO STUDS	2–16d	END NAIL
STUD TO SOLE PL.	4–8d OR 2–16d	TOE NAIL OR END NAIL
DOUBLE STUDS	16d @ 16" O.C.	FACE NAIL
DOUBLE TOP PL.	16d @ 16" O.C.	FACE NAIL
CONTINUOUS HEADER (2 PC)	16d @ 16" O.C.	EDGE NAIL
CLG. JST. TO PL.	3–8d	TOE NAIL
CLG. JST LAP OVER PL.	3–16d	FACE NAIL
CLG. JST TO RAFTER	3–16d	FACE NAIL
RAFTER TO TOP PL.	3–8d	TOE NAIL
COLLAR TIES (EA. END)	6–10d (U.N.O.)	FACE NAIL
BUILT-UP CORNER STUDS	16d @ 24" O.C.	FACE NAIL
PLYWOOD SUBFLOOR	8d @ 6" O.C.	EDGE NAIL
	8d @ 10" O.C.	FIELD NAIL
SOLID BLOCKING @ BEARING PLY. WALL & ROOF SHEATHING	3–16d	TOE NAIL
	8d @ 6" O.C.	EDGE NAIL
	8d @ 12" O.C.	FIELD NAIL
STAPLED ROOF SHEATHING	6" O.C.	EDGE NAIL
13 ga. 7/16" CROWN 1" MIN.	12" O.C.	FIELD NAIL
TOP PL. AT INTERSECTIONS	2–16d	FACE NAIL
MULTIPLE JOISTS (UP TO 3)	16d @ 15" O.C.	STAGGERED
MULTIPLE JOISTS (OVER 3)	\"– BOLTS W/WASHERS STAGGERED @ 24" O.C.	
1X6 SPACED SHEATHING	2–8d	FACE NAIL
RAFTERS TO HIPS, VALLEY OR RIDGES	4–16d	TOE NAIL
	3–16d	FACE NAIL
RAFTER/DECK LEDGERS	3–2d	EACH STUD

LATERAL ENGINEERING NOTES:

IF SPALLING IS NOTED AND IT EXCEEDS ONE INCH (AS MEASURED FROM THE TOP OF THE CONCRETE FOUNDATION TO THE BOTTOM OF THE SPALL) THEN THE ENGINEER OF RECORD MUST BE CONSULTED. ACCEPTANCE OF THE REPAIR WORK FOR ANY AREA NOT MEETING THE FORGOING REQUIREMENT REQUIRES THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

DO NOT INSTALL WHERE A HORIZONTAL COLD JOINT EXISTS WITHIN THE EMBEDMENT DEPTH OF THE FOUNDATION WALL (OR BETWEEN THE SLAB AND DOUNDATION WALL) WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

REINFORCING STEEL MUST BE INSTALLED AS PER THE MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS.

ALL WOOD MEMBERS RECIVING 16d NAILING MUST BE A MINIMUM OF 3" IN THICKNESS TO INSURE THAT THE NAILS ARE FULLLY EMBEDDED AND NOT PROTRUDING FROM THE BACK SIDE. ALL NAIL HOLES IN THE STRAP MUST BE FILLED.

NEVER IS THE PLACEMENT FROM THE CORNER OF ANY WALL TO BE LESS THEN 1.5".

AT ALL LOCATIONS INVOLVING A RIM JOIST SHALL USE THE STRAPS HAVING THE DESIGNATION "RJ".

ALL EDGES OF SHEARWALLS MUST BE BLOCKED WITH A MIN. OF 2" x MATERIAL AND NAILED AS PER THE SCHEDULE (U.N.O.).

WHEN "A. BOLTS" ARE DESIGNATED ON THE SCHEDULE, ½" DIAMETER x 12" ANCHOR BOLTS AT A SPACING OF 36" MAX. ARE TO BE USED.

CAR-PORT09.DWG

STATE CERTIFIED PLANS EXAMINER
OSBSE "B" AHJ'S
SCOTT SHROYER

3-13-2014
1830 EAST UNION ST
Silverton

Pacific NorthWest Engineering, Inc.
4242 Silver Falls Dr. N., Silverton, OR 97381
Ph. (503) 873-3184 Fax. (503) 873-3907

PACIFIC NORTHWEST ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 15, 1997
MARK S. ELLINGER
EXP. 12-31-15

City of Silverton
Silverton, OR 97381

DATE: 03-11-14
SCALE: Varies
DRAWN: MSE
CHECKED: MSE
JOB: 14-078
SHEET 1

SUBMITTAL PACKAGE



Marion County

Prepared for:

Brian Nicholas
Marion County Public Works
555 CT ST NE
Salem, OR 97301-3980

Cummins Salesperson:

Mark Wahlberg CS931@cummins.com 503-307-7529

Cummins Project Manager:

Samantha Norman samantha.norman@cummins.com (425) 902-9513

PLEASE COMPLETE THIS SECTION OR PROVIDE SIGNOFF TO PROCEED

☐ **Revise with corrections provided** **Date:** 6/23/2025

☑ **Approved and released for production**

By (name and company): Brian Nicholas, Marion County Public Works Department

Requested delivery date: December 15, 2025

Requested delivery address: 5155 Silverton Road NE, Salem, OR 97305

Contact person and phone # for deliveries: Michael Pierce, 408.857.2040

Salesforce O# n/a

BMS #

Customer PO#

Date 6/16/25 Rev _1

Serving Cummins Customers

Cummins power solutions are supported by the largest and best-trained worldwide-certified sales/distributor network in the industry. This network will help you select and install the critical power solution to meet the requirements of your specific application. This same network provides experts with advanced technology to make your life easier while providing a seamless support experience.

IMPORTANT: *The critical power solution information and specifications included in this pdf can be used by the site contractor(s) and/or engineer(s) to assist with planning for and accomplishing the overall power solution installation. Please forward this document to the appropriate personnel, as necessary.*

It is the obligation of the electrical contractor and reviewing engineer to determine that the item quantities and accuracy of this submittal is correct as required for the job. Any inaccuracies or deviations must be addressed with Cummins Inc. before release to manufacturing. Any releases of material to manufacturing by the above parties constitute an acceptance of the accuracy of the submittal. Any changes after release will be viewed as a change order, subject to pricing changes. Please take the time to review this package for accuracy to prevent any after-shipment problems that could cause delay in energization.

Cummins certifies that these drawings, material lists, specification and datasheets have been checked prior to submittal and they:

- *accurately depict the proposed equipment*
- *provide current information to the date of the submittal and*
- *present true and accurate equipment information.*

This Approval Drawing Package is submitted as our interpretation of the project requirements and/or the specifications for this job. Please note that issuance of these submittals shall not be deemed or interpreted as performance nor acceptance of your purchase order terms and conditions.

For questions or comments regarding this submittal, please contact the Cummins Project Manager listed on the title page.

Cummins Sales and Service

Project: Marion County - Eastview Lane - Sourcewell
Quotation: Q-379776-06132025–13:53

Qty	Submittal Applies to:
1	Eastview Lane
1	Crooked Finger
1	Lower Prospect
~~1~~	~~Mad Creek~~
1	McCully
Total 4	

The Mad Creek site has been eliminated from the project. The total order quantity will be reduced by one (1), from the initial quantity of five (5) to the final quantity of four (4) outdoor generators.

13 June 2025

Bill of Material

Feature Code	Description	Qty
C36N6	**C36N6, 36kW, 60Hz, Standby, Natural Gas/Propane Genset, 1800rpm engine**	**1**
Install-US-Stat	U.S. EPA, Stationary Emergency Application	
C36N6_C36 N6	C36N6, 36kW, 60Hz, Standby, Natural Gas/Propane Genset, 1800rpm engine	
C36N6_A331-2	Duty Rating - Standby Power (ESP)	
C36N6_L155-2	Emissions Certification - SI, EPA, Emergency, Stationary, 40CFR60	
C36N6_L090-2	Listing - UL 2200	
C36N6_L193-2	NFPA 110 Type 10 Level 1 Capable	
C36N6_L225-2	HCAI (formerly OSHPD) Seismic Pre-Approval Certification	
C36N6_L228-2	Cert - Seismic, IBC2000, IBC2003, IBC2006, IBC2009, IBC2011	
C36N6_B240-2	Exciter/Reg - Torque Match	
C36N6_R104-2	Voltage - 120/240, 1 Phase, 3 Wire	
C36N6_B949-2	Alternator - 60Hz, 4L, 240/120V, 1 Phase, 120C, 40C Ambient	
C36N6_A292-2	Alternator Heater, 120 Volt AC	
C36N6_F231-2	Aluminum Sound Attenuated Level 1 Enclosure, with Exhaust System	
C36N6_P176-2	Enclosure Color - Green, Aluminum	
C36N6_F252-2	Enclosure - Wind Load 180 MPH, ASCE7-10	
C36N6_F179-2	Skidbase - Housing Ready	
C36N6_H608-2	Control Mounting - Right Facing	
C36N6_H700-2	PowerCommand 1.1 Controller	
C36N6_KV03-2	Load Connection - Single	
C36N6_H012-2	Gauge - Oil Pressure	
C36N6_K796-2	Stop Switch - Emergency	
C36N6_H536-2	Control Display Language - English	
C36N6_KV17-2	Circuit Breaker, Location A, 150A, 2P, 600 Volts AC, 80%, UL	
C36N6_A366-2	Engine Governor - Electronic, Isochronous	
C36N6_C284-2	Single Gas Fuel - NG or LP Vapor	
C36N6_A422-2	Engine Starter - 12 Volt DC Motor	
C36N6_D041-2	Engine Air Cleaner - Normal Duty	
C36N6_A333-2	Battery Charging Alternator	
C36N6_BB89-2	Battery Charger - 6 Amp, Regulated	
C36N6_E125-2	Engine Cooling - Radiator, High Ambient Air Temperature, Ship Fitted	
C36N6_H389-2	Shutdown - Low Coolant Level	
C36N6_E089-2	Extension - Coolant Drain	
C36N6_H669-2	Engine Coolant - 50% Antifreeze, 50% Water Mixture	
C36N6_E154-2	Coolant Heater, Extreme Cold Ambient	
C36N6_H706-2	Engine Oil	
C36N6_L028-2	Genset Warranty - 2 Years Base	
C36N6_L050-2	Literature - English	
C36N6_A322-2	Packing - Skid, Poly Bag	
C36N6_F253-2	Larger Battery Rack	
C36N6_H268-2	Extension - Oil Drain	
A045P632	**Battery-Wet, 12V, Group 34, 850CCA [Shipped Loose]**	**1**
Miscellaneous	**Pilla Remote E-Stop [Shipped Loose]**	**1**

A054V134	**PC Lon Gateway, Lon Modbus, Lon Modbus/TCP Gateway**	**1**
Miscellaneous	**Acumen Telematics – Cloud - Wi-Fi + Cellular + Ethernet connectivity – Modbus + J1939 (Private – NA variant) - A068E639 [Shipped Loose]**	**1**
Service - start up & testing	**Service - Standard Start Up Service (no spec) and System Testing**	**1**

NOTES:

Cummins quote is valid for 30 days. This quotation is based on the bill of materials from the ESCO 911 project and email dated 4.30.25. Contractor to verify application meets requirements. All other specifications and drawings are excluded. We know of no addenda.

Specification sheet

Spark-ignited generator set

20-40 kW Standby

EPA emissions



Description

Cummins® generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby applications.

Features

Gas engine - Rugged 4-cycle Cummins QSJ2.4 spark-ignited engine delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 50° C (122° F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminium material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The intelligent design has removable panels and service doors to provide easy access for service and maintenance.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

	Natural gas		Propane		
	Standby 60 Hz		Standby 60 Hz		Data sheets
Model	kW	kVA	kW	kVA	60 Hz
C20 N6	20	25	20	25	NAD-5693-EN
C25 N6	25	31	25	31	NAD-5695-EN
C30 N6	30	38	30	38	NAD-5696-EN
C36 N6	36	45	36	45	NAD-5697-EN
C40 N6	40	50	40	50	NAD-5698-EN

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Generator set specifications

Governor regulation class	ISO8528 Part 1 Class G3*
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
Frequency regulation	Isochronous
Random frequency variation	± 0.25% @ 60 Hz
Radio frequency emissions compliance	Meets requirements of most industrial and commercial applications

* C36 N6 and C40 N6 are Class G2

Engine specifications

Aspiration	Naturally Aspirated (25kW), Turbocharged (30kW), Turbocharged and Aftercooled (36kW/40kW)
Bore	86.5 mm (3.4 in.)
Stroke	100.0 mm (3.94 in.)
Displacement	2.4 L (143.5 in^3)
Cylinder block	Cast iron, in-line 4 cylinder
Battery capacity	550 amps at ambient temperature of 0° F to 32° F (-18° C to 0° C)
Battery charging alternator	50 amps
Starting voltage	12 volt, negative ground
Lube oil filter type(s)	Spin-on with relief valve
Standard cooling system	50° C (122° F) ambient cooling system
Rated speed	1800 rpm

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	120º C (248° F) Standby
Exciter type	Torque match (shunt) with EBS as option
Alternator cooling	Direct drive centrifugal blower
AC waveform Total Harmonic Distortion (THDV)	< 5% no load to full linear load, < 3% for any single harmonic
Telephone Influence Factor (TIF)	< 50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	< 3%

Available voltages

1-phanse	3-phase			
• 120/240	• 120/208	• 120/240 delta	• 277/480	• 347/600

Generator set options

Fuel system
- Single fuel - natural gas or propane vapor, field selectable
- Dual fuel – natural gas and propane vapor auto changeover
- Low fuel gas pressure warning

Engine
- Engine air cleaner – normal or heavy duty
- Shut down – low oil pressure
- Extension – oil drain

Alternator
- 120° C (248° F) temperature rise alternator
- 105° C (221° F) temperature rise alternator
- PMG available on 36 kW and 40 kW
- Alternator heater, 120 V

Control
- AC output analog meters (bargraph)
- Stop switch – emergency
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)

Electrical
- Single circuit breaker
- Dual circuit breakers
- 80% rated circuit breakers
- 100% rated circuit breakers

Enclosure
- Aluminium enclosure Sound Level 1 or Level 2, with muffler installed, sandstone or green color
- Open set

Cooling system
- Shutdown – low coolant level
- Warning – low coolant level
- Extension – coolant drain
- Cold weather options:
  - < 4° C (40° F) – cold weather
  - < -17° C (0° F) – extreme cold weather

Exhaust system
- Exhaust connector NPT

Generator set application
- Base barrier – elevated generator set
- Battery rack, larger battery
- Radiator outlet duct adapter

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Generator set options (continued)

Warranty

- Base warranty – 2 year, 1000 hour, Standby
- Standby, 3 year, 1500 hour, parts
- Standby, 5 year, 2500 hour, parts
- Standby, 3 year, 1500 hour, parts and labor
- Standby, 5 year, 2500 hour, parts and labor
- Standby, 3 year, 1500 hour, parts, labor and travel
- Standby, 5 year, 2500 hour, parts, labor and travel

Note: Some options may not be available on all models - consult factory for availability.

Generator set accessories

- Extreme cold weather kit
- Battery rack, larger battery
- Battery heater kit
- HMI211RS in-home display, including pre-configured 12-inch harness
- HMI211 remote display, including pre-configured 12-inch harness
- HMI220 remote display
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)
- Annunciator – RS485
- Remote monitoring device – Acumen®
- Battery charger – stand-alone, 12 V
- Circuit breakers
- Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- Enclosure paint touch up kit
- Base barrier – elevated generator set
- Mufflers – industrial, residential or critical
- PMG available on 36 kW and 40 kW
- Alternator heater
- Maintenance and service kit
- Engine lift kit

Control system PowerCommand 1.1





PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). Major features include:

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- Control suitable for operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and altitudes to 5000 meters (13,000 feet).
- Prototype tested; UL, CSA, and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics.

Operator/display panel

- Manual off switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -40 °C to +70 °C
- Bargraph display (optional)

AC protection

- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High, low and weak battery voltage warning
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown

Alternator data

- Line-to-Line and Line-to-Neutral AC volts
- 3-phase AC current
- Frequency
- Total kVa

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

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Other data

- Generator set model data
- Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- Integrated digital electronic voltage regulator
- 2-phase Line-to-Line sensing
- Configurable torque matching

Control functions

- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
- Automatic Transfer Switch (ATS) control
- Generator set exercise, field adjustable

Options

- Auxiliary output relays (2)
- Remote annunciator with (3) configurable inputs and (4) configurable outputs
- PMG alternator excitation available on 36 kW and 40 kW
- Acumen® telematics for remote monitoring and control via Cummins PowerCommand Cloud
- Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- Digital governing
- AC output analog meters (bargraph)
  - Color-coded graphical display of:
    - 3-phase AC voltage
    - 3-phase current
    - Frequency
    - kVa
- Remote operator panel

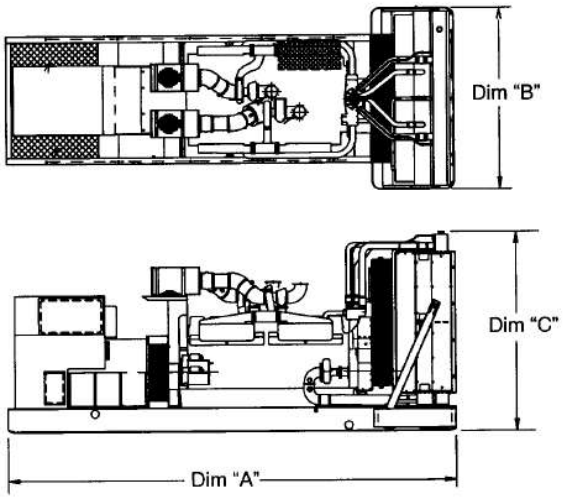
Ratings definitions

Emergency Standby Power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):
Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

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Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set weight* dry kg (lbs)	Set weight* wet kg (lbs)
Open set					
C20 N6	1669 (65.7)	864 (34)	1123 (44.2)	423 (933)	440 (969)
C25 N6	1669 (65.7)	864 (34)	1123 (44.2)	441 (972)	457 (1008)
C30 N6	2225 (87.6)	864 (34)	1123 (44.2)	491 (1083)	508 (1119)
C36 N6	2225 (87.6)	864 (34)	1123 (44.2)	520 (1146)	536 (1182)
C40 N6	2225 (87.6)	864 (34)	1123 (44.2)	548 (1208)	564 (1244)
Sound attenuated enclosure Level 1					
C20 N6	1829 (72)	864 (34)	1156 (45.5)	469 (1034)	485 (1070)
C25 N6	1829 (72)	864 (34)	1156 (45.5)	487 (1073)	503 (1109)
C30 N6	2388 (94)	864 (34)	1156 (45.5)	542 (1195)	558 (1231)
C36 N6	2388 (94)	864 (34)	1156 (45.5)	571 (1258)	587 (1294)
C40 N6	2388 (94)	864 (34)	1156 (45.5)	599 (1320)	615 (1356)
Sound attenuated enclosure Level 2					
C20 N6	2073 (81.6)	864 (34)	1156 (45.5)	474 (1045)	490 (1081)
C25 N6	2073 (81.6)	864 (34)	1156 (45.5)	492 (1084)	508 (1120)
C30 N6	2626 (103.4)	864 (34)	1156 (45.5)	547 (1206)	563 (1242)
C36 N6	2626 (103.4)	864 (34)	1156 (45.5)	576 (1269)	592 (1305)
C40 N6	2626 (103.4)	864 (34)	1156 (45.5)	604 (1331)	620 (1367)

* Weights based on 1-phase generator set. Weights may vary with a different configuration.

Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

ISO 9001 ISO 14001 ISO 45001	This product was manufactured in a facility whose quality management system is certified to ISO 9001 and its Health Safety Environmental Management Systems certified to ISO 14001 and ISO 45001.	UL LISTED	This product is listed to UL 2200, Stationary Engine Generator Assemblies
PTS	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60. U.S. applications must be applied per this EPA regulation.
CSA	All low voltage models are CSA certified to product class 4215-01 and available with CSA B149.1 fuel train.	IBC INTERNATIONAL BUILDING CODE	The generator set package is available certified for seismic application in accordance with International Building Code.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

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NAS-5692 (10/24) A052F982

Generator set data sheet

Model:	**C36 N6**
kW rating:	**36.0 natural gas Standby** **36.0 propane Standby**
Frequency:	**60 Hz**
Fuel type:	**Natural gas/propane**
Emissions level:	**EPA emissions**

Fuel consumption

	Natural gas				Propane			
	Standby				Standby			
	kW (kVA)				kW (kVA)			
Ratings	36.0 (45.0)				36.0 (45.0)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
scfh	202.3	292.3	382.3	472.3	79.8	114.1	148.4	182.7
m³/hr	5.73	8.28	10.83	13.37	2.26	3.23	4.20	5.17

Engine

	Natural gas	Propane
	Standby rating	**Standby rating**
Engine model	QSJ2.4G-G6	
Configuration	Cast iron, in-line 4 cylinder	
Aspiration	Turbo	
Gross engine power output, kW_m (bhp)	[redacted]	52 (70)
Bore, mm (in.)	86.5 (3.41)	
Stroke, mm (in.)	100.0 (3.94)	
Rated speed, rpm	1800	
Compression ratio	9.5:1	
Lube oil capacity, L (qt)	4 (4.54)	
Overspeed limit, rpm	2250	

Fuel supply pressure

Minimum operating pressure, kPa (in H_2O)	1.5 (6.0)
Maximum operating pressure, kPa (in H_2O)	3.2 (13.0)

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Air	Natural gas Standby rating	Propane Standby rating
Combustion air, m^3/min (scfm)	[illegible]	1.8 (62.5)
Maximum air cleaner restriction, kPa (in H_2O)	1.49 (6.0)	
Alternator cooling air, m^3/min (scfm)	N/A	

Exhaust

Exhaust flow at rated load, m^3/min (cfm)	[illegible] (260.2)	6.3 (225.9)
Exhaust temperature, °C (°F)	632 [illegible]169)	638 (1181)
Exhaust back pressure (maximum allowable at engine), kPa (in H_2O)	5.0 (20)	5.0 (20)
Exhaust back pressure (actual with factory fitted muffler), kPa (in H_2O)	1.47 (5.9)	

Standard set-mounted radiator cooling

Ambient design, °C (°F)	50 (122)
Fan load, kW (HP)	2.2 (3.0)
Coolant capacity (with radiator), L (US gal)	10 (2.7)
Cooling system air flow, m^3/min (scfm)	144.2 (5150)
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)

Weights[2]

Unit dry weight kgs (lbs)	548 (1294)
Unit wet weight kgs (lbs)	603 (1330)

Notes:
[1]For non-standard remote installations contact your local Cummins representative.
[2]Weights represent a set with 1-phase with sound level 1 enclosure.

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Alternator data

Standard alternators		Natural gas/ propane single phase table	Natural gas/propane three phase table			
Maximum temperature rise above 40 °C ambient		120 °C	120 °C	120 °C	120 °C	120 °C
Feature code		B949-2	B986-2	B946-2	B943-2	B952-2
Alternator data sheet number		ADS-579	ADS-577	ADS-577	ADS-577	ADS-577
Voltage ranges		120/240	120/240	120/208	277/480	347/600
Voltage feature code		R104-2	R106-2	R098-2	R002-2	R114-2
Surge kW		43.0/43.0	43.1/43.1	43.1/43.1	43.1/43.1	43.1/43.1
Motor starting kVA (at 90% sustained voltage)	Shunt	68	86	86	86	86
	EBS	112	135	135	135	135
Full load current amps at Standby rating		150	108	125	54	43

Optional alternators for improved motor starting capability		Natural gas/ propane single phase table	Natural gas/propane three phase table			
Maximum temperature rise above 40 °C ambient		105 °C	105 °C	105 °C	105 °C	105 °C
Feature code		BB96-2	BB94-2	BB93-2	BB95-2	BB92-2
Alternator data sheet number		ADS-579	ADS-579	ADS-579	ADS-579	ADS-579
Voltage ranges		120/240	120/240	120/208	277/480	347/600
Voltage feature code		R104-2	R106-2	R098-2	R002-2	R114-2
Surge kW		41.5/41.5	43.4/43.4	43.4/43.4	43.4/43.4	43.4/43.4
Motor starting kVA (at 90% sustained voltage)	Shunt	76	95	95	95	95
	PMG	120	NA	NA	NA	NA
	EBS	NA	150	150	150	150
Full load current amps at Standby rating		150	108	125	54	43

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Derating factors

Natural gas/propane

Standby	Natural gas: Engine power available up to 762 m (2500 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4% per 305 m (1000 ft) and 2% per 10 °C above 40 °C (104 °F). Propane: Engine power available up to 1005 m (3300 ft) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4% per 305 m (1000 ft) and 2% per 10 °C above 40 °C (104 °F).

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

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NAD-5697 (4/25)

Specification Sheet

PowerCommand® 1.1 Control System



Description

The PowerCommand control system is a microprocessor-based generator set monitoring, metering and control system designed to meet the demands of today's engine driven generator sets. The integration of all control functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. These control systems have been designed and tested to meet the harsh environment in which gensets are typically applied.

Features

Easy to view: HMI 211RS for residential use. 128 x 64 pixel graphic LED backlight LCD.

Easy to use: Tactile buttons for generator set start/stop. Residential Standby display for convenient use.

Modbus® interface: Eliminates need for MODLON.

Progressive protective functions: Advanced Overcurrent Protection – Generator set monitoring & protection.

Digital voltage regulation: Single phase full wave SCR type regulator compatible with either shunt or PMSG systems.

Digital engine speed governing: Provides isochronous frequency regulation.

12 and 24 VDC battery operation.

Automatic mains failure: Smooth & automatic transfer and re-transfer of load from utility to generator set & vice-versa.

Exerciser clock: Runs generator set exerciser routines for dependability of operation.

Warranty and service: Backed by a comprehensive warranty and worldwide distributor service network.

Certification: Suitable for us on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC Mil Std., CE, UKCA and CSA standards.

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PowerCommand Digital Generator Set Control PCC 1302



Description

The PowerCommand generator set control is suitable for use on a wide range of generator sets in non-paralleling applications. The PowerCommand control is compatible with shunt or PMG excitation style. It is suitable for use with reconnectable or non-reconnectable generators, and it can be configured for any frequency, voltage and power connection from 120-600 VAC Line-to-Line.

Power for this control system is derived from the generator set starting batteries. The control functions over a voltage range from 8 VDC to 30 VDC.

Features

- 12 and 24 VDC battery operation.
- Digital voltage regulation.
- Digital engine speed governing (where applicable) - Provides isochronous frequency regulation.
- Full authority engine communications (where applicable) - Provides communication and control with the Engine Control Module (ECM).
- Common harnessing - with higher feature Cummins controls allows for easy field upgrades.
- Generator set monitoring - Monitors status of all critical engine and alternator functions.
- Digital genset metering (AC and DC).
- Genset battery monitoring system - to sense and warn against a weak battery condition.
- Engine starting - Includes relay drivers for starter, fuel shut off (FSO), glow plug/spark ignition power and switch B+ applications.
- Generator set protection - Protects engine and alternator.
- Advanced serviceability - using InPower™, a PC-based software service tool.
- Environmental protection - The control system is designed for reliable operation in harsh environments. The main control board is a fully encapsulated module that is protected from the elements.
- Exerciser function – Routine exercising of generator set.
- Supports dual fuel control.
- Automatic Mains Failure function built in generator set controller. Modbus interface - for interconnecting to customer equipment.
- Configurable inputs and outputs - Four discrete inputs and two dry contact relay outputs.
- Warranty and service - Backed by a comprehensive warranty and worldwide distributor service network.
- Certifications - Suitable for use on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC, Mil Std., CE, UKCA and CSA standards.

Base Control Functions

HMI capability

Operator adjustments - The HMI includes provisions for many set up and adjustment functions.

Generator set hardware data - Access to the control and software part number, generator set rating in kVA and generator set model number is provided from the HMI or InPower™.

Data logs - Includes engine run time, controller on time, number of start attempts.

Fault history - Provides a record of the most recent fault conditions with control hours time stamp. Up to 10 events are stored in the control non-volatile memory.

Alternator data

- Voltage (single or three phase Line-to-Line and Line-to-Neutral)
- Current (single or three phase)
- kVA (three phase and total)
- Frequency
- Engine data
- Starting battery voltage
- Engine speed
- Engine temperature
- Engine oil pressure
- Partial Full Authority Engine (FAE) data (where applicable)
- Service adjustments - The HMI includes provisions for adjustment and calibration of generator set control functions. Adjustments are protected by a password. Functions include:
- Engine speed governor adjustments
- Voltage regulation adjustments
- Cycle cranking
- Configurable fault set up
- Configurable output set up
- Meter calibration
- Units of measurement

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Engine control

SAE-J1939 CAN interface to full authority ECMs (where applicable) - Provides data swapping between genset and engine controller for control, metering and diagnostics.

12 VDC/24 VDC battery operations - PowerCommand will operate either on 12 VDC or 24 VDC batteries.

Isochronous governing (where applicable) - Capable of controlling engine speed within +/-0.25% for any steady state load from no load to full load. Frequency drift will not exceed +/-0.5% for a 33 °C (60 °F) change in ambient temperature over an 8 hour period.

Temperature dependent governing dynamics (with electronic governing) - Modifies the engine governing control parameters as a function of engine temperature. This allows the engine to be more responsive when warm and more stable when operating at lower temperature levels.

Remote start mode - Accepts a ground signal from remote devices to automatically start the generator set and immediately accelerate to rated speed and voltage. The remote start signal will also wake up the control from sleep mode. The control can incorporate a time delay start and stop.

Remote and local Emergency stop - The control accepts a ground signal from a local (genset mounted) or remote (facility mounted) Emergency stop switch to cause the generator set to immediately shut down. The generator set is prevented from running or cranking with the switch engaged. If in sleep mode, activation of either Emergency stop switch will wake up the control.

Sleep mode - The control includes a configurable low current draw state to minimize starting battery current draw when the genset is not operating. The control can also be configured to go into a low current state while in auto for Prime applications or applications without a battery charger.

Engine starting - The control system supports automatic engine starting. Primary and backup start disconnects are achieved by one of three methods: magnetic pickup, battery charging alternator feedback or main alternator output frequency. The control also supports configurable glow plug control when applicable.

Cycle cranking - Configurable for the number of starting cycles (1 to 7) and duration of crank and rest periods. Control includes starter protection algorithms to prevent the operator from specifying a starting sequence that might be damaging.

Time delay start and stop (cooldown) - Configurable for time delay of 0-300 seconds prior to starting after receiving a remote start signal and for time delay of 0-600 seconds prior to shut down after signal to stop in normal operation modes. Default for both time delay periods is 0 seconds.

Alternator control

The control includes an integrated line-to-line sensing voltage regulation system that is compatible with shunt or PMG excitation systems. The voltage regulation system is full wave rectified and has an SCR output for good motor starting capability. Major system features include:

Digital output voltage regulation - Capable of regulating output voltage to within +/-1.0% for any loads between no load and full load. Voltage drift will not exceed +/-1.5% for a 40 ºC (104 ºF) change in temperature in an eight hour period. On engine starting or sudden load acceptance, voltage is controlled to a maximum of 5% overshoot over nominal level.

The automatic voltage regulator feature can be disabled to allow the use of an external voltage regulator.

Torque-matched V/Hz overload control - The voltage roll-off set point and rate of decay (i.e. the slope of the V/Hz curve) is adjustable in the control.

Protective Functions

On operation of a protective function the control will indicate a fault by illuminating the appropriate status LED on the HMI, as well as display the fault code and fault description on the LCD. The nature of the fault and time of occurrence are logged in the control. The service manual and InPower service tool provide service keys and procedures based on the service codes provided. Protective functions include:

Battle short mode

When enabled and the battle short switch is active, the control will allow some shutdown faults to be bypassed. If a bypassed shutdown fault occurs, the fault code and description will still be annunciated, but the genset will not shutdown. This will be followed by a fail to shutdown fault. Emergency stop shutdowns and others that are critical for proper operation are not bypassed. Please refer to the Control Application Guide or Manual for list of these faults.

Configurable alarm and status inputs

The control accepts up to four alarm or status inputs (configurable contact closed to ground or open) to indicate a configurable (customer-specified) condition. The control is programmable for warning, shutdown or status indication and for labelling the input.

Emergency stop

Annunciated whenever either Emergency stop signal is received from external switch.

General engine protection

Low and high battery voltage warning - Indicates status of battery charging system (failure) by continuously monitoring battery voltage.

Weak battery warning - The control system will test the battery each time the generator set is signaled to start and indicate a warning if the battery indicates impending failure.

Fail to start (overcrank) shutdown - The control system will indicate a fault if the generator set fails to start by the completion of the engine crack sequence.

Fail to crank shutdown - Control has signaled starter to crank engine but engine does not rotate.

Cranking lockout - The control will not allow the starter to attempt to engage or to crank the engine when the engine is rotating.

Hydro mechanical fuel system engine protection

Overspeed shutdown - Default setting is 115% of nominal.

Low lube oil pressure warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

High lube oil temperature warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

High engine temperature warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

Low coolant temperature warning - Indicates that engine temperature may not be high enough for a 10 second start or proper load acceptance.

Sensor failure indication - Logic is provided on the base control to detect analog sensor or interconnecting wiring failures.

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Full authority electronic engine protection

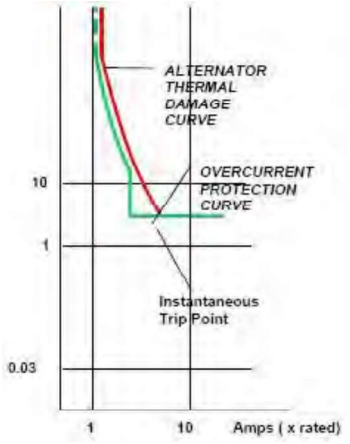
Engine fault detection is handled inside the engine ECM. Fault information is communicated via the SAE-J1939 data link for annunciation in the HMI

Alternator protection

High AC voltage shutdown (59) - Output voltage on any phase exceeds pre-set values. Time to trip is inversely proportional to amount above threshold. Values adjustable from 105-130% of nominal voltage, with time delay adjustable from 0.1-10 seconds. Default value is 110% for 10 seconds.

Low AC voltage shutdown (27) - Voltage on any phase has dropped below a pre-set value. Adjustable over a range of 50-95% of reference voltage, time delay 2-20 seconds. Default value is 85% for 10 seconds.

Overcurrent warning/shutdown - Implementation of the thermal damage curve with instantaneous trip level calculated based on current transformer ratio and application power rating.



-

Under frequency shutdown (81 u) - Generator set output frequency cannot be maintained. Settings are adjustable from 2-10 Hz below nominal governor set point, for a 5-20 second time delay. Default: 6 Hz, 10 seconds.

Over frequency shutdown/warning (81o) - Generator set is operating at a potentially damaging frequency level. Settings are adjustable from 2-10 Hz above nominal governor set point for a 1-20 second time delay. Default: 6 Hz, 10 seconds, enabled.

Loss of sensing voltage shutdown - Shutdown of generator set will occur on loss of voltage sensing inputs to the control.

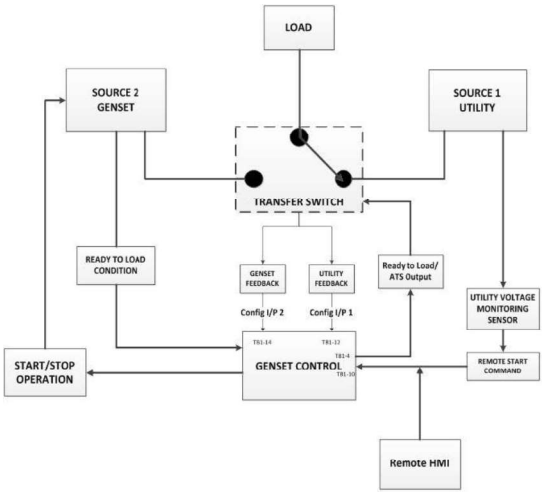
Field overload shutdown - Uses field voltage to shutdown generator set when a field overload condition occurs.

Advanced Functions

Automatic mains failure*

The built in AMF feature provides the automatic transfer and re-transfer of the load from utility to generator set and vice-versa.

- Automatically starts-stops the generator set in the event of utility failure.
- Annunciates faults.



-

* A utility voltage monitoring sensor (as shown in the AMF diagram above) must be connected in order to use the AMF feature on the 1302 control. Use Schneider Electric Relay RSB1A120U7 and Socket RSZE1S35M.

Exerciser clock

The exerciser clock runs the generator set exerciser routines for dependability of operation.

Field Control Interface

Input signals to the base control include:

- Remote start
- Local and Emergency stop
- Configurable inputs: Control includes (4) input signals from customer discrete devices that are configurable for warning, shutdown or status indication, as well as message displayed.

Output signals from the PowerCommand control include:

- Configurable relay outputs: Control includes (2) relay output contacts rated at 2 A. These outputs can be configured to activate on any control warning or shutdown fault as well as ready to load, not in auto, common alarm, common warning and common shutdown.
- Ready to load (generator set running) signal: Operates when the generator set has reached 90% of rated speed and voltage and latches until generator set is switched to off or idle mode.

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PowerCommand Human Machine Interface HMI211



Description

This control system includes an intuitive operator interface panel that allows for complete genset control as well as system metering, fault annunciation, configuration and diagnostics. The interface includes five generator set status LED lamps with both internationally accepted symbols and English text to comply with customer needs. The interface also includes an LED backlit LCD display with tactile feel soft-switches for easy operation and screen navigation. It is configurable for units of measurement and has adjustable screen contrast and brightness.

The *run/off/auto* switch function is integrated into the interface panel.

All data on the control can be viewed by scrolling through screens with the navigation keys. The control displays the current active fault and a time-ordered history of the five previous faults.

Features

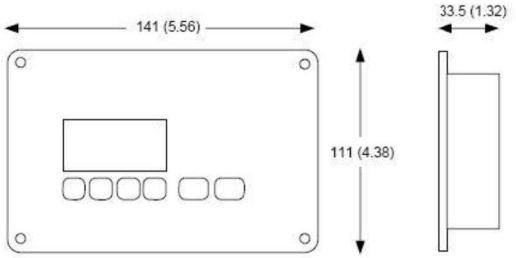
- LED indicating lamps:
  - Remote start
  - Not in auto
  - Shutdown
  - Warning
  - Auto
  - Run
- 128 x 64 pixels graphic LED backlight LCD.
- Four tactile feel membrane switches for LCD defined operation. The functions of these switches are defined dynamically on the LCD.
- Two tactile feel membrane switches dedicated for off and back.
- Allows for complete genset control setup.
- Certifications: Suitable for use on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC, Mil Std., CE, UKCA and CSA standards.
- HMI 211RS provides convenience for residential use.

Communications Connections

PC tool interface - This RS-485 communication port allows the HMI to communicate with a personal computer running InPower.

This RS-485 communication port allows the HMI to communicate with the main control board.

Mechanical Drawing



HMI

Dimensions: mm (inches)

Software

InPower (beyond 6.0 version) is a PC-based software service tool that is designed to directly communicate to PowerCommand generator sets and transfer switches, to facilitate service and monitoring of these products.

Environment

The control is designed for proper operation without recalibration in ambient temperatures from -40 ºC (-40 ºF) to +70º C (158 ºF), and for storage from -55 ºC (-67 ºF) to +80 ºC (176 ºF). Control will operate with humidity up to 95%, non-condensing.

The HMI is designed for proper operation in ambient temperatures from -40 ºC* (-40 ºF) to +70 ºC (158 ºF), and for storage from -40 ºC* (-40 ºF) to +80 ºC (176 ºF).

The control board is fully encapsulated to provide superior resistance to dust and moisture. Display panel has a single membrane surface, which is impervious to effects of dust, moisture, oil and exhaust fumes. This panel uses a sealed membrane to provide long reliable service life in harsh environments.

The control system is specifically designed and tested for resistance to RFI/EMI and to resist effects of vibration to provide a long reliable life when mounted on a generator set. The control includes transient voltage surge suppression to provide compliance to referenced standards.

* Heater accessory (pn: A040H853) is available for enhanced operation below -20 ºC

Certifications

PowerCommand meets or exceeds the requirements of the following codes and standards:

- NFPA 110 for level 1 and 2 systems.
- ISO 8528-4: 1993 compliance, controls and switchgear.
- CE and UKCA marking: The control system is suitable for use on generator sets to be CE and UKCA-marked.
- EN 50081-1,2 residential/light industrial emissions or industrial emissions.
- EN 50082-1,2 residential/light industrial or industrial susceptibility.
- ISO 7637-2, level 2; DC supply surge voltage test.
- Mil Std. 202C, Method 101 and ASTM B117: Salt fog test.
- PowerCommand control systems and generator sets are designed and manufactured in ISO 9001 certified facilities.
- UL 6200 recognized and suitable for use on UL 2200 Listed generator sets.
- CSA C282-M1999 compliance.
- CSA 22.2 No. 14 M91 industrial controls.

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Warranty

All components and subsystems are covered by an express limited one year warranty. Other optional and extended factory warranties and local distributor maintenance agreements are available

Accessories

1301-1302 Upgrade Kit (HM)	0541-1431
PowerCommand 500 (LAN)	A040X126
Remote HMI 211	0541-1394
Remote HMI 211RS	A046K103
I/O Expansion (Aux 101)	0541-1291
HMI Heater Accessory Kit	A040H853

Parts Ordering Information

1302 Control Board	0327-1617-02
1302 control Board – Arrow	A043W505
Aux 104 (Governor Control)	0327-1507
HMI 211 Without Heater	0300-6014
HMI 211 with Heater	A026G237

Additional Resources

Resource	Where to find
1302 Service Manual	QSOL
Accessories Catalog	cumminspower.com
Additional Controls Information	PowerSuite Library

PCCNet COMPATIBLE

For more information contact your local Cummins distributor or visit power.cummins.com

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PDS-1566 | PD00000147 | (01/22)

Alternator data sheet

Frame size: CA115-V14

Characteristics			
No of bearings:		1	
Weights:	**Stator assembly**:	289.5 lb	131.3 kg
	Rotor assembly:	147.8 lb	67 kg
	Complete assembly:	437 lb	198 kg
Maximum speed:		2250 rpm	
Insulation system:	Class H throughout		

		60 Hz (winding no)				
		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Excitation current:	Full load	2.12	1.89	2.10	1.47	2.12
Excitation current:	No load	0.47	0.45	0.57	0.69	0.47
3 Ø Ratings (0.8 power factor)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on specific temperature rise at 40 °C ambient temperature)						
120 °C Rise peak Standby ratings	kW	40	40	40		40
	kVA	50	50	50		50
105 °C Rise peak Standby ratings	kW	36.6	36.60	36.60		36.6
	kVA	45.75	45.75	45.75		45.75
1 Ø Ratings (1.0 power factor)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on specific temperature rise at 40 °C ambient temperature)						
120 °C Rise peak Standby ratings	kW				36	
	kVA				36	
105 °C Rise peak Standby ratings	kW				33	
	kVA				33	
Reactances (per unit ± 30%)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on full load at 105 °C rise rating)						
Synchronous		2.02	2.06	2.06	1.22	2.02
Transient		0.12	0.12	0.12	0.10	0.12
Subtransient		0.08	0.08	0.08	0.07	0.08
Negative sequence		0.16	0.16	0.16	0.16	0.16
Zero sequence		0.08	0.10	0.09	0.08	0.08
Motor starting		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Maximum kVA (90% sustained voltage)						
(At 20°C nominal generator & ambient temperature)						
	(EBS)	150	150	150	112	150
	(Shunt)	95	95	95	68	95

Alternator data sheet

Frame size: CA115-V14

Time constants (sec)	208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Transient	0.026	0.026	0.026	0.026	0.026
Subtransient	0.006	0.006	0.006	0.006	0.006
Open circuit	0.62	0.62	0.62	0.52	0.62
DC	0.006	0.005	0.005	0.006	0.006
Windings (@ 20° C)	208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Stator resistance (Ohms per phase)	0.238	0.350	0.518	0.048	0.238
Rotor resistance (Ohms)	0.944	0.944	0.944	0.944	0.944
Number of leads	12	12	12	4	12

Data Sheet

Circuit Breakers

Description

This Data sheet provides circuit breaker manufacturer part numbers and specifications. The Circuit breaker box description is the rating of that breaker box installation on a Cummins Generator. Please refer to the website of the circuit breaker manufacturer for breaker specific ratings and technical information.

Applicable Models

Engine	Models					
Kubota	C10D6	C15D6	C20D6			
QSJ2.4	C20N6	C25N6	C30N6	C30N6H	C36N6	C36N6H
	C40N6	C40N6H	C50N6H	C60N6H		
B3.3	C25D6	C30D6	C35D6	C40D6	C50D6	C60D6
QSJ5.9G	C45N6	C50N6	C60N6	C70N6	C80N6	C100N6
QSJ8.9G	C125N6	C150N6	C175N6B	C200N6B		
QSB5	DSFAC	DSFAD	DSFAE	C50D6C	C60D6C	C80D6C
	C100D6C	C125D6C				
QSB7	DSGAA	DSGAB	DSGAC	DSGAD	DSGAE	
		C125D6D	C150D6D	C175D6D	C200D6D	
QSL9	DSHAD	DQDAA	DQDAB	DQDAC		
QSM11	DQHAB					
QSX15	DFEJ	DFEK				

Instructions

1. Locate the circuit breaker feature code or part number and use the charts below to find the corresponding manufacturer circuit breaker catalog number.

2. Use the first letter of the circuit breaker catalog number to determine the "frame" of the breaker. If the first letter is an “N”, use the second letter. Then follow the corresponding website link from the table below to find the breaker catalog number description.

Please refer to the catalog numbering systems page, which is given in the chart, to understand the nomenclature of the catalog number.

Frame	Catalog name*	Catalog number description page(s)
P	0612CT0101 http://www.schneider-electric.us/en/download/document/0612CT0101/	16-17
H, J, and L	0611CT1001 http://www.schneider-electric.us/en/download/document/0611CT1001/	8-9
Q	0734CT0201 http://www.schneider-electric.us/en/download/document/0734CT0201/	4

*The following link may also be used to search specifically by the breaker part number or for the catalog name listed above. http://products.schneider-electric.us/technical-library/

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3. Search the catalog by using the first 3 letters of the breaker catalog number and the first 5 numbers to find information such as trip curves, accessories, and dimensional details regarding the circuit breaker.

*If the catalog number starts with “N”, skip the N and begin your search with the second letter.

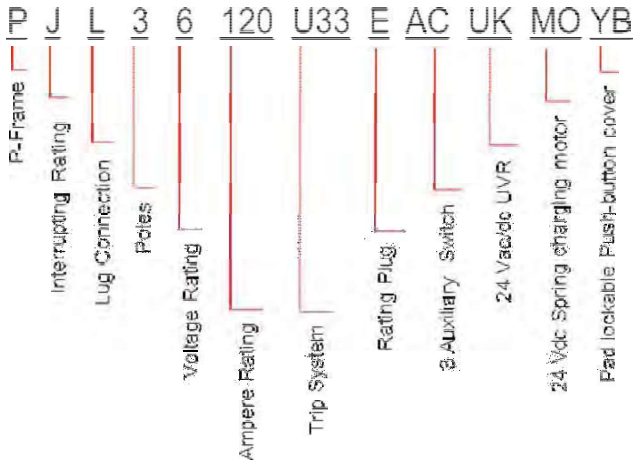
*If the first 3 letters are “PJP,” the search will not work. You will need to start with just “PJ” and use the description pages to obtain the information you are looking for on the “PJP.”

Example

After finding your circuit breaker catalog number to be "PJL36120U33EACUKMOYB," navigate to the P-frame catalog by using the link provided.

Look at pages 16-17 of the pdf catalog to find the nomenclature of the breaker.

Search the P-frame spec sheet using the search "PJL36120.”



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PW1791-26 ATTACHMENT C

Feature Code	Breaker Box Description	Cummins Part #	Manufacturer	Breaker Catalog Number	Trip Unit	Plug Type
KV10-2	CB,Loc A,50A,2P,600VAC,80%,UL	A043E181	Schneider Electric	HDL26050	Thermal Magnetic	N/A
KV11-2	CB,Loc A,60A,2P,600VAC,80%,UL	A043E179	Schneider Electric	HDL26060	Thermal Magnetic	N/A
KV12-2	CB,Loc A,70A,2P,600VAC,80%,UL	A043E169	Schneider Electric	HDL26070	Thermal Magnetic	N/A
KV13-2	CB,Loc A,80A,2P,600VAC,80%,UL	A043D328	Schneider Electric	HDL26080	Thermal Magnetic	N/A
KV14-2	CB,Loc A,90A,2P,600VAC,80%,UL	A043D326	Schneider Electric	HDL26090	Thermal Magnetic	N/A
KV15-2	CB,Loc A,100A,2P,600VAC,80%,UL	A043D324	Schneider Electric	HDL26100	Thermal Magnetic	N/A
KV16-2	CB,Loc A,125A,2P,600VAC,80%,UL	A043D274	Schneider Electric	HDL26125	Thermal Magnetic	N/A
KV17-2	CB,Loc A,150A,2P,600VAC,80%,UL	A043C676	Schneider Electric	HDL26150	Thermal Magnetic	N/A
KV18-2	CB,Loc A,175A,2P,600VAC,80%,UL	A043E202	Schneider Electric	JDL26175	Thermal Magnetic	N/A
KV19-2	CB,Loc A,200A,2P,600VAC,80%,UL	A043E199	Schneider Electric	JDL26200	Thermal Magnetic	N/A
KV20-2	CB,Loc A,225A,2P,600VAC,80%,UL	A043E195	Schneider Electric	JDL26225	Thermal Magnetic	N/A
KV21-2	CB,Loc A,250A,2P,600VAC,80%,UL	A043E193	Schneider Electric	JDL26250	Thermal Magnetic	N/A
KV30-2	CB,Loc A,15A,3P,600VAC,80%,UL	A043L506	Schneider Electric	HDL36015	Thermal Magnetic	N/A
KV31-2	CB,Loc A,20A,3P,600VAC,80%,UL	A043L480	Schneider Electric	HDL36020	Thermal Magnetic	N/A
KV32-2	CB,Loc A,25A,3P,600VAC,80%,UL	A043L508	Schneider Electric	HDL36025	Thermal Magnetic	N/A
KV33-2	CB,Loc A,30A,3P,600VAC,80%,UL	A043L475	Schneider Electric	HDL36030	Thermal Magnetic	N/A
KV34-2	CB,Loc A,40A,3P,600VAC,80%,UL	A043L464	Schneider Electric	HDL36040	Thermal Magnetic	N/A

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Cooling system data
C36 N6

High ambient air temperature radiator cooling system

	Fuel type	Duty	Rating (Kw)	Max cooling @ air flow static restriction, unhoused (inches water/mm water)					Housed in free air, no air discharge restriction	
				0.0/0.0	0.25/6.4	0.5/12.7	0.75/19.1	1.0/25.4	F231	F217
				Maximum allowable ambient temperature, degree C						
60 Hz	Natural Gas	Standby	36	55	55	55	N/A	N/A	55	55

High ambient air temperature radiator cooling system

	Fuel type	Duty	Rating (Kw)	Max cooling @ air flow static restriction, unhoused (inches water/mm water)					Housed in free air, no air discharge restriction	
				0.0/0.0	0.25/6.4	0.5/12.7	0.75/19.1	1.0/25.4	F231	F217
				Maximum allowable ambient temperature, degree C						
60 Hz	Propane	Standby	36	55	55	55	N/A	N/A	55	55

Notes:

1. Data shown are anticipated cooling performance for typical generator set.
2. Cooling data is based on 1000 ft (305 m) site test location.
3. Generator set power output may need to be reduced at high ambient conditions. Refer generator set data sheet for derate schedules.
4. Cooling performance may be reduced due to several factors including but not limited to: Incorrect installation, improper operation, fouling of the cooling system, and other site installation variables.

Sound Data
C36 N6
QSJ2.4 60Hz

Sound Pressure Level @ 7 meters, dB(A)

See notes 1-6 listed below

Configuration		Position (note 1)								8 Position Average
		1	2	3	4	5	6	7	8	
Standard – unhoused	Infinite Exhaust	77.9	79.7	76.2	76.1	75.1	78.4	77.6	76.5	77.4
F231-2 – sound attenuated level 1	Mounted	71.0	68.8	65.2	65.2	65.7	65.8	65.0	67.6	67.3
F217-2 – sound attenuated level 2	Mounted	65.4	67.2	64.8	65.7	65.8	66.6	63.8	64.5	65.6

Sound Power Level, dB(A)

See notes 2-4, 7, 8 listed below

Configuration		Octave band center frequency (Hz)										Overall Sound Power Level
		31.5	63	125	250	500	1000	2000	4000	8000	16000	
Standard – unhoused	Infinite Exhaust	45.9	63.8	76.0	87.4	100.8	99.7	96.5	95.3	93.2	85.5	105.1
F231-2 – sound attenuated level 1	Mounted	49.1	75.7	77.7	87.8	89.8	85.1	83.5	81.0	81.1	73.5	95.0
F217-2 – sound attenuated level 2	Mounted	49.6	77.3	76.4	87.9	91.2	86.9	84.5	83.5	83.3	72.1	94.1

Exhaust Sound Power Level, dB(A)

See notes 2, 9 listed below

Open Exhaust (no muffler) @ rated load	Octave band center frequency (Hz)										Overall Sound Power Level
	31.5	63	125	250	500	1000	2000	4000	8000	16000	
	36.9	80.3	93.4	104.1	99.9	104.3	106.1	102.7	100.7	93.7	111.4

Note:

1. Position 1 faces the generator front per ISO 8528-10. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All position are at 7 m (23 ft) from surface of the generator set and 1.2 m (48 in.) from floor level.
2. Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
3. Data based on full rated load.
4. Sound data with generator sets with infinite exhaust do not include exhaust noise.
5. Sound pressure levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
6. Reference sound pressure is 20 µPa.
7. Sound power levels per ISO 3744 and ISO 8528-10, as applicable.
8. Reference power = 1 pw (10^{-12} W).
9. Exhaust sound power levels are per ISO 6798, as applicable.

Exhaust emission data sheet
C36 N6
60 Hz Spark ignited generator set
EPA emissions

Engine information:			
Model:	QSJ2.4	Bore:	3.41 in. (86.5 mm)
Type:	4 cycle, in-line, 4 cylinder	Stroke:	3.94 in. (100 mm)
Aspiration:	Naturally aspirated	Displacement:	146.46 cu. in. (2.4 liters)
Compression ratio:	9.5:1		
Emission control device:	Electronic air/fuel ratio control, and closed-loop breather system.		

	Natural gas	Propane
Performance data	**Standby**	**Standby**
BHP @ 1800 RPM (60 Hz)	70	70
Fuel consumption (SCFH)	473	182.7
Air to fuel ratio	14	14.6
Exhaust gas flow (CFM)	269.2	225.9
Exhaust gas temperature (°F)	1400	1475
Exhaust emission data		
HC (Total unburned hydrocarbons)*	39	419
NOx (Oxides of nitrogen as NO2)	1260	1188
CO (Carbon monoxide)	9972	17657
		Values are ppmvd
HC (Total unburned hydrocarbons)*	0.06	0.52
NOx (Oxides of nitrogen as NO2)	5.09	4.04
CO (Carbon monoxide)	29.30	42.43
		Values are Grams per HP-Hour

*HC includes all NMHC, VOC, POC, and ROC constituents (Non-Methane HC, Volatile Organic Compounds, Precursor Organic Compounds, and Reactive Organic Compounds).

Test conditions

Data was recorded during steady-state rated engine speed (± 25 RPM) with full load (± 2%). Pressures, temperatures, and emission rates were stabilized.

Fuel specification:

Natural gas	Dry gas as received from Supplier (1000 BTU/SCF).
Propane	Meets the requirements for Commercial Grade Propane under the ASTM D1835 Standard Specification for Liquefied Gases
Fuel temperature	60 ± 9 °F at Flow Transmitter
Fuel pressure	14.73 PSIA ± 0.5 PSIA at Flow Transmitter
Intake air temperature:	77 ± 9 °F at inlet
Barometric pressure:	29.92 in. Hg ± 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H2O/lb dry air

The NOx, HC, and CO emission data tabulated here were from a single engine under the test conditions shown above. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limit, or with improper maintenance, may results in elevated emission levels.

2024 EPA Exhaust Emission Compliance Statement
C36 N6
Standby
60 Hz Spark Ignited Generator Set

Compliance Information:

The engine used in this generator set complies with U.S. EPA emissions regulations under the provisions of 40 CFR Part 60, Stationary Emergency Spark-Ignited emissions limits when tested on 6 mode cycle of Part 90.

Engine Manufacturer:	Cummins Inc.
EPA Certificate Number:	RCEXB02.4AAA-002
Effective Date:	8/21/2023
Date Issued:	8/21/2023
EPA Engine Family (Cummins Emissions Family):	RCEXB02.4AAA

Engine Information:

Model:	QSJ2.4	Bore:	3.41 in. (86 mm)
Engine Nameplate HP:	70	Stroke:	3.94 in. (100 mm)
Type:	4 Cycle, In-Line, 4 Cylinder	Displacement:	146.5 cu. in. (2 liters)
Aspiration:	Turbocharged Aftercooled	Compression Ratio:	9.5:1
Emission Control Device:	Electronic Air/Fuel Ratio Control and Closed-Loop Breather System		

U.S. Environmental Protection Agency Station Emergency SI Emission Limits

	Grams per BHP-hr		Grams per kW_m-hr	
Natural Gas	NOx + NMHC	CO	NOx + NMHC	CO
EPA Emissions Limit	10.0	387	13.4	519

	Grams per BHP-hr		Grams per kWm-hr	
Propane (LP)	NOx + THC	CO	NOx + THC	CO
EPA Emissions Limit	10.0	387	13.4	519

Tests conducted using alternate methods, instrumentation, fuel or reference conditions can yield different results.

Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

VMC GROUP
THE POWER OF TOGETHER

CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-51070-01C (Revision 11)

Expiration Date: 4/30/2026

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2018, 2015, 2012

The following model designations, options, and accessories are included in this certification. Reference report number VMA-51070-01 as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Cummins Power Generation, Inc.; Gas Generators
C20-200N6 Series; 20kW - 200kW

The above referenced equipment is **APPROVED** for seismic application when properly installed[3], used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_p=1.5. The equipment is qualified by successful seismic shake table testing at the nationally recognized Dynamic Certification Laboratories under the review of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels			
Certified IBC	**Importance $I_p \leq 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	z/h ≤ 1.0	z/h = 0.0
		$S_{DS} \leq 2.500$ g	$S_{DS} \leq 2.500$ g

Certified Seismic Installation Methods
Rigid Mounting From Unit Base To Rigid Structure

HEADQUARTERS
113 Main Street
Bloomingdale, NJ 07403
Phone: 973.838.1780
Toll Free: 800.569.8423
Fax: 973.492.8430

CALIFORNIA
180 Promenade Circle
Suite 300
Sacramento, CA 95834
Phone: 916.634.7771

TEXAS
11930 Brittmoore Park Drive
Houston, TX 77041
Phone: 713.466.0003
Fax: 713.466.1355

thevmcgroup.com

VMC GROUP
THE POWER OF TOGETHER

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certified Product Table:

Model	Max Rating [kW]	Max Depth [in]	Max Width [in]	Max Height [in]	Max Weight [lb]
C20N6	20	82	34	46	1,110
C22N6	22				1,150
C25N6	25				
C30N6, C30N6H	30				1,300
C36N6, C36N6H	36	104			1,380
C40N6, C40N6H	40				1,420
C45N6, C45N6H	45				2,580
C50N6, C50N6H	50				2,600
C60N6, C60N6H	60				2,900
C70N6	70	136	40	58	2,870
C80N6	80				3,030
C100N6	100				3,170
C125N6	125	160		72	3,770
C150N6	150				4,350
C175N6, C200N6	200				4,663
C200N6				83	4,140

Note: "H" indicates high speed (3600RPM, as opposed to the standard 1800RPM)
Note: Dimensions and Weight include sound level 2 (SL2) enclosure baffle

Group	Type	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{Flex-H}	A_{Rig-H}	A_{Flex-V}	A_{Rig-V}	F_p/W_p
Seismic	AC156	2.500	2.500	4.000	3.000	1.667	0.667	1.875

This certification includes the open generator set and the enclosed generator set. The generator set and included options shall be a catalogue design and factory supplied. The generator set and applicable options shall be installed an attached to the building structure per the manufacturer supplied seismic installation instructions. This certification excludes all non-factory supplied accessories, including but not limited to mufflers, isolation/restraint devices, remote control panels, remote radiators, pumps and other electrical/mechanical components.

IBC CERTIFIED VMC GROUP

VMA-51070-01C (Revision 11)
Issue Date: Friday, July 3, 2015
Revision Date: Friday, April 28, 2023
Expiration Date: Thursday, April 30, 2026

VMC GROUP
THE POWER OF TOGETHER

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.

2. The following building codes are addressed under this certification:
   IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2012 referencing ASCE7-10 and ICC-ES AC-156

3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for ensuring the proper installation of all anchors and mounting hardware.

4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, the VMC Group, and meets the seismic design levels claimed by this certificate.

5. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification makes no statements of compliance in regards to NEMA, IP, UL, CSA, or other relevant standards after a seismic event. For compliance to other relevant standards, please contact the manufacturer.

6. This certificate applies to units manufactured at:
   Cummins Power Generation Inc., 1400 73rd Ave. NE, Minneapolis, MN 55432

7. This certification follows the VMC Group's ISO-17065 Scheme.

John P. Giuliano, PE
President, VMC Group

IAS ACCREDITED Product Certification Agency

VMA-51070-01C (Revision 11)
Issue Date: Friday, July 3, 2015
Revision Date: Friday, April 28, 2023
Expiration Date: Thursday, April 30, 2026

IBC CERTIFIED VMC GROUP

Prototype Test Support (PTS)
60 Hz test summary

Generator set models

C20 N6, C22 N6, C25 N6, C30 N6, C36 N6, C40 N6, C30 N6H, C36 N6H, C40 N6H, C45 N6H, C50 N6H, C60 N6H

Representative prototype

Model: C40 N6H
Alternator: CA115-T12
Engine: QSJ2.4

The following summarizes prototype testing conducted on the designated representative prototype of the specified models. This testing is conducted to verify the complete generator set electrical and mechanical design integrity. Prototype testing is conducted only on generator sets not sold as new equipment.

Maximum surge power: 52.3 kW

The generator set was evaluated to determine the stated maximum surge power.

Maximum motor starting: 76 kVA

The generator set was tested to simulate motor starting by applying the specified kVA load at low lagging power factor (0.4 or lower). With this load applied, the generator set recovered to a minimum of 90% rated voltage.

Alternator temperature rise:

The highest rated temperature rise (120 °C) test results are reported as follows to verify that worst case temperature rises do not exceed allowable NEMA MG1 limits for class H insulation. Tests were conducted per IEEE 115, rise by resistance and embedded detector, with the rated voltages. Only the highest temperatures are reported.

Location	Maximum rise (°C)
Alternator stator	103
Alternator rotor	101
Exciter stator	53
Exciter rotor	65

Torsional analysis and testing:

The generator set was tested to verify that the design is not subjected to harmful torsional stresses. A spectrum analysis of the transducer output was conducted over the speed range of 1650 to 1950 RPM.

Cooling system: 50 °C ambient, 0.5 in. H_2O restriction

The cooling system was tested to determine ambient temperature and static restriction capabilities. The test was performed at full rated load in elevated ambient temperature under static restriction conditions.

Durability:

The generator set was subjected to a minimum 1000 hour endurance test operating at variable load up to the Standby rating based upon MIL-STD-705 to verify structural soundness and durability of the design.

Electrical and mechanical strength:

The generator set was tested to several single phase and three phase faults to verify that the generator can safely withstand the forces associated with short circuit conditions. The generator set was capable of producing full rated output at the conclusion of the testing.

Steady state performance:

The generator set was tested to verify steady state operating performance was within the specified maximum limits.

Voltage regulation:	± 1%
Random voltage variation:	± 1%
Frequency regulation:	± 0.25%
Random frequency variation:	± 0.25%

Transient performance:

The generator set was tested to verify single step loading capability as required by NFPA 110 and verify acceptable voltage and frequency response on load addition or rejection. The following results were recorded at 0.8 power factor :

Full load acceptance:

Voltage dip:	14.4%
Recovery time:	2.6 seconds
Frequency dip:	4.6%
Recovery time:	2.7 seconds

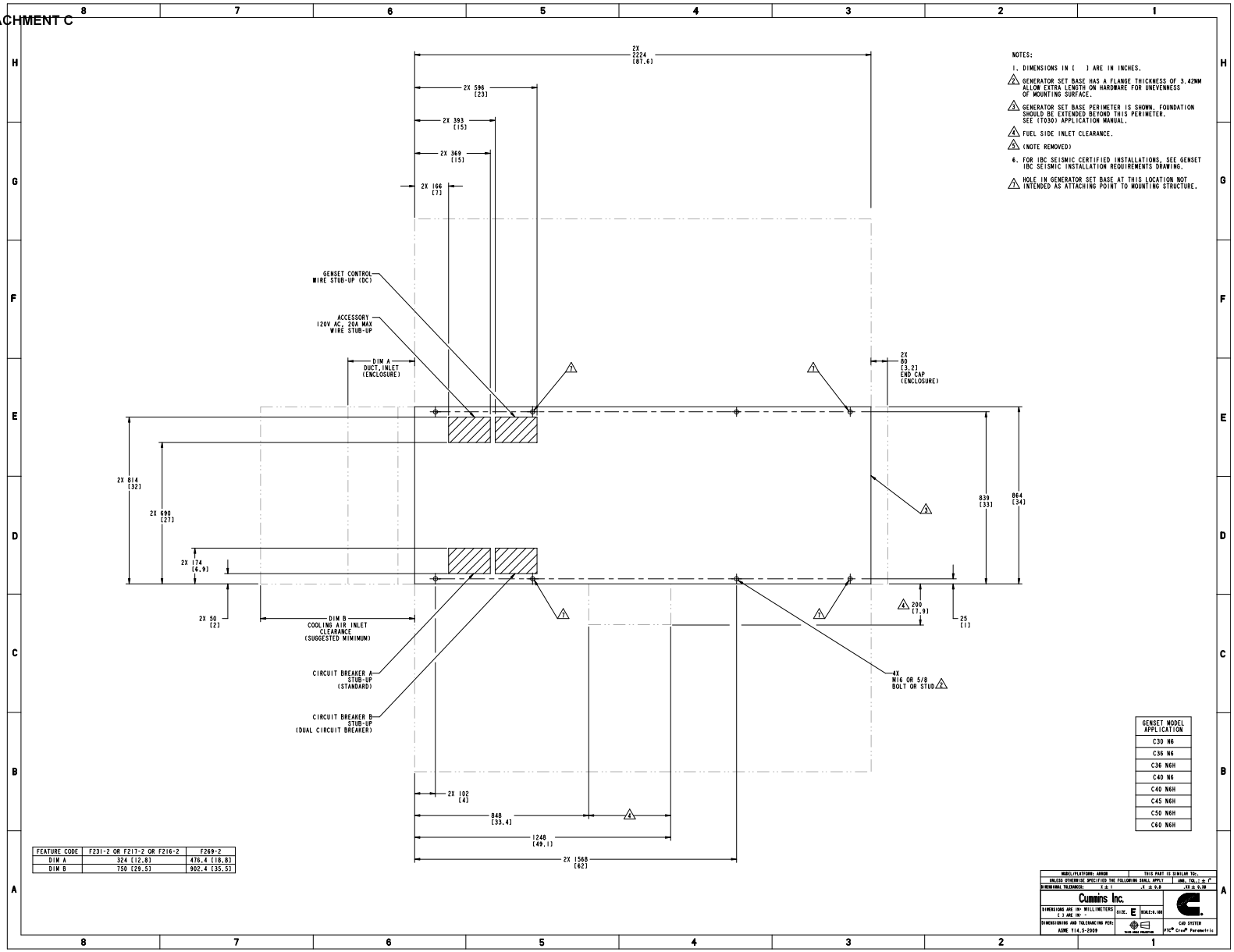
Full load rejection:

Voltage rise:	11.5%
Recovery time:	3.4 seconds
Frequency rise:	5.6%
Recovery time:	3.4 seconds

Harmonic analysis:

(per MIL-STD-705B, method 601.4)

	Line to Line		Line to Neutral	
Harmonic	No load	Full load	No load	Full load
3	0.3	3.5	0.3	3.2
5	1.1	1.0	0.9	0.9
7	0.7	0.4	0.7	0.3
9	0.0	0.5	0.0	0.4
11	0.2	0.1	0.1	0.1
13	0.1	0.1	0.0	0.0
15	0.0	0.1	0.0	0.1



FEATURE CODE	F231-2 OR F217-2 OR F216-2	F269-2
DIM A	324 [12.8]	476.4 [18.8]
DIM B	750 [29.5]	902.4 [35.5]

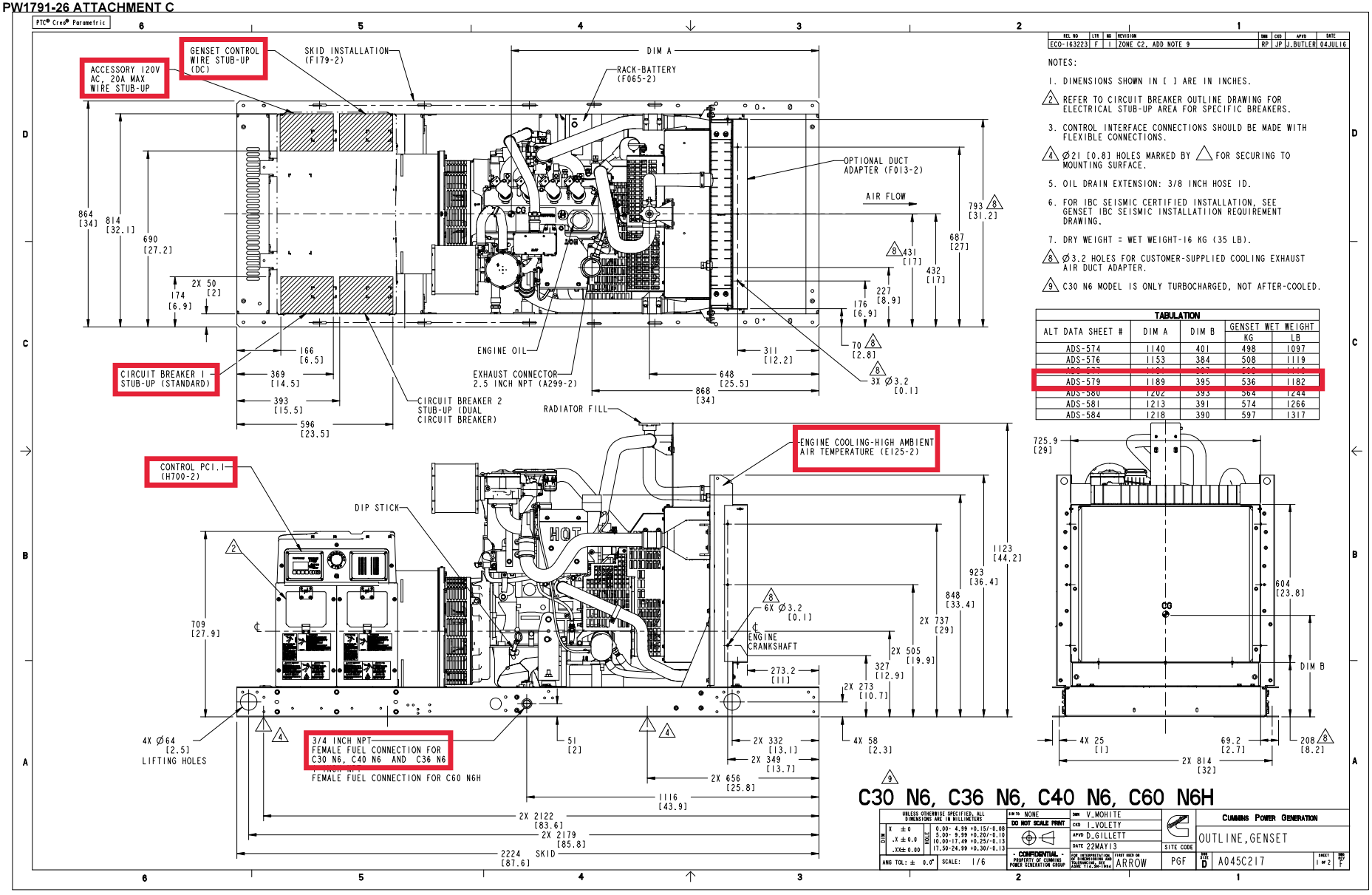
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Part Number: **A044T182** Part Revision: **H**
Part Name: **OUTLINE,GENSET**
Drawing Category: **Detail** State: **Released**

PW1791-26 ATTACHMENT C



REL NO	LTR	NO	REVISION	DRN	CHD	APVD	DATE
ECO-163223	F	1	ZONE C2, ADD NOTE 9	RP	JP	J.BUTLER	04JUL16

NOTES:

1. DIMENSIONS SHOWN IN [ ] ARE IN INCHES.
2. REFER TO CIRCUIT BREAKER OUTLINE DRAWING FOR ELECTRICAL STUB-UP AREA FOR SPECIFIC BREAKERS.
3. CONTROL INTERFACE CONNECTIONS SHOULD BE MADE WITH FLEXIBLE CONNECTIONS.
4. Ø21 [0.8] HOLES MARKED BY △ FOR SECURING TO MOUNTING SURFACE.
5. OIL DRAIN EXTENSION: 3/8 INCH HOSE ID.
6. FOR IBC SEISMIC CERTIFIED INSTALLATION, SEE GENSET IBC SEISMIC INSTALLATION REQUIREMENT DRAWING.
7. DRY WEIGHT = WET WEIGHT-16 KG (35 LB).
8. Ø3.2 HOLES FOR CUSTOMER-SUPPLIED COOLING EXHAUST AIR DUCT ADAPTER.
9. C30 N6 MODEL IS ONLY TURBOCHARGED, NOT AFTER-COOLED.

TABULATION

ALT DATA SHEET #	DIM A	DIM B	GENSET WET WEIGHT KG	GENSET WET WEIGHT LB
ADS-574	1140	401	498	1097
ADS-576	1153	384	508	1119
ADS-577	1181	397	532	1172
ADS-579	1189	395	536	1182
ADS-580	1202	393	564	1244
ADS-581	1213	391	574	1266
ADS-584	1218	390	597	1317

C30 N6, C36 N6, C40 N6, C60 N6H

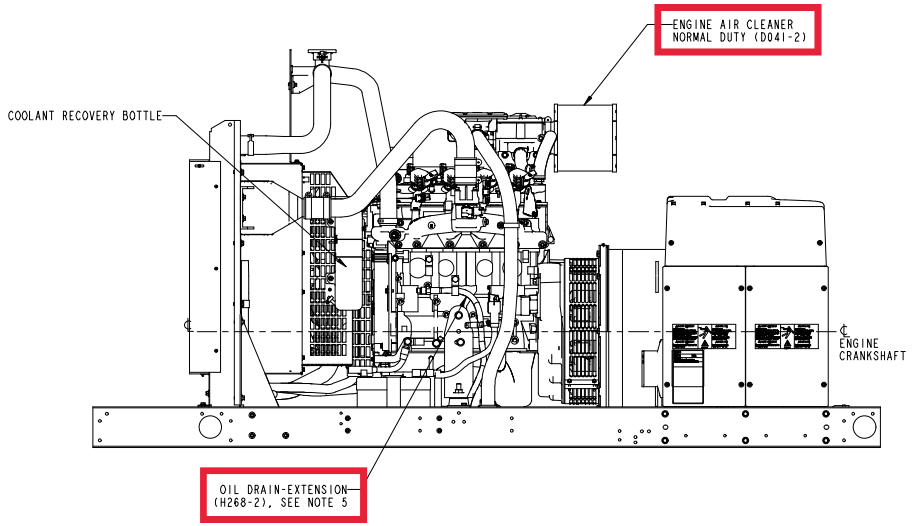
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS	FINISH NONE	DRN V_MOHITE	CUMMINS POWER GENERATION
DIM X ±0 / .X ±0.0 / .XX± 0.00 — HOLE 0.00-4.99 +0.15/-0.08; 5.00-9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13	DO NOT SCALE PRINT	CHD I_VOLETY	OUTLINE,GENSET
ANG TOL: ± 0.0° — SCALE: 1/6	CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	APVD D_GILLETT; DATE 22MAY13	SITE CODE PGF
	FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES SEE ASME Y14.5M-1994	FIRST USED ON ARROW	SIZE D — A045C217 — SHEET 1 of 2 — REV F

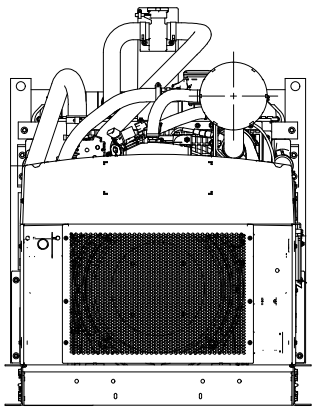
Drawing Name: A045C218 Revision: F
Part Name: A045C217 Revision: F
ECO-163223 Sheet 1 of 3

PW1791-26 ATTACHMENT C

PTC® Creo® Parametric

REL NO	LTR	NO	REVISION	DRN	CHD	APVD	DATE
ECO-163223	F	-	---	RP	JP	J.BUTLER	04JUL16

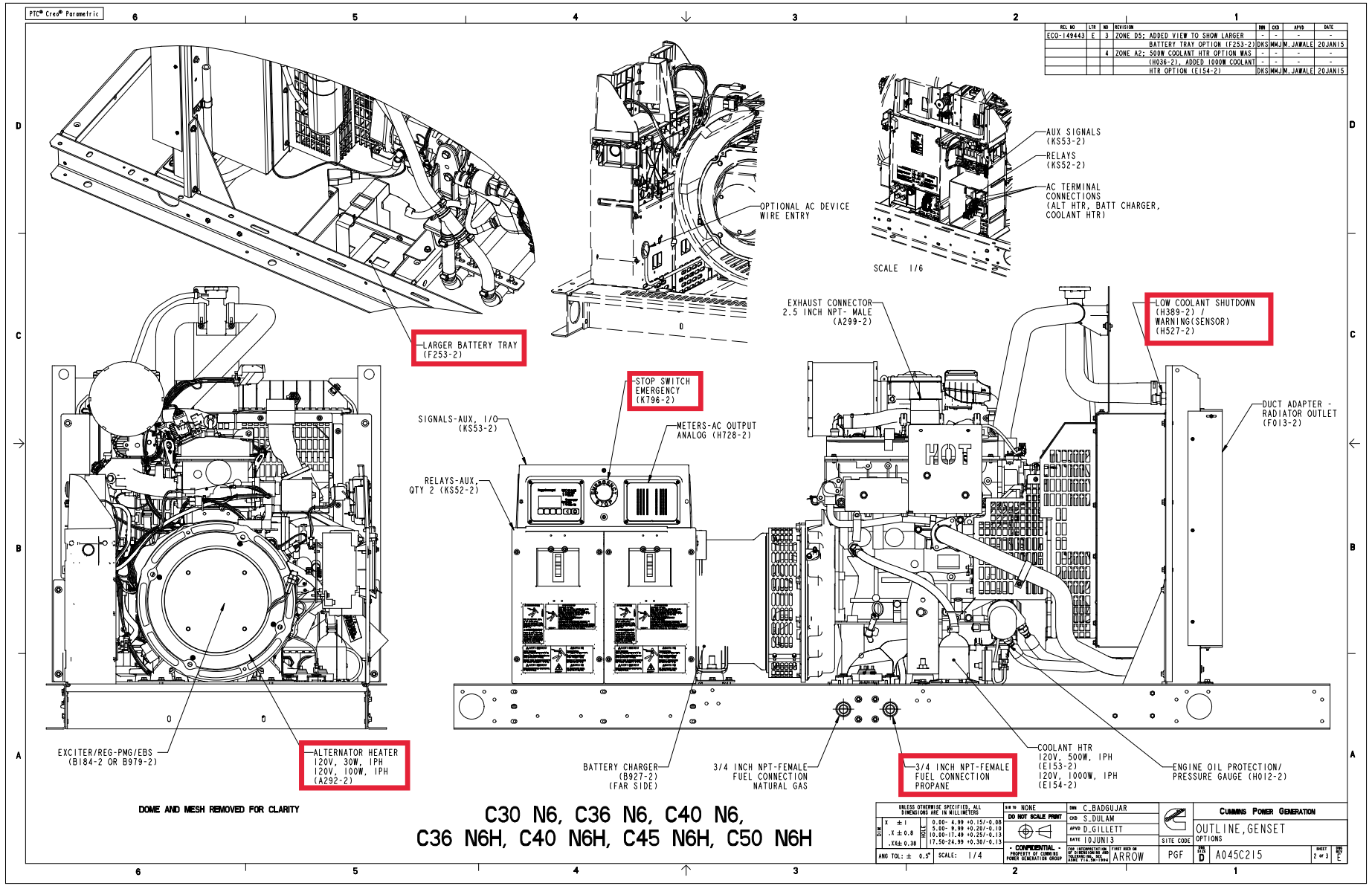




9

C30 N6, C36 N6, C40 N6, C60 N6H

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS	SIM TO NONE	DRN V_MOHITE	CUMMINS POWER GENERATION
DIM X ±0 / .X ±0.0 / .XX± 0.00 — TOL 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13	DO NOT SCALE PRINT	CHD I_VOLETY	OUTLINE,GENSET
ANG TOL: ± 0.0° SCALE: 1/6	- CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	APVD D_GILLETT; DATE 22MAY13	SITE CODE
	FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES SEE ASME Y14.5M-1994	FIRST USED ON ARROW	PGF
			SIZE D — A045C217 — SHEET 2 of 2 — REV F


PTC® Creo® Parametric
LARGER BATTERY TRAY (F253-2)
OPTIONAL AC DEVICE WIRE ENTRY
AUX SIGNALS (KS53-2)
RELAYS (KS52-2)
AC TERMINAL CONNECTIONS (ALT HTR, BATT CHARGER, COOLANT HTR)
SCALE 1/6
EXHAUST CONNECTOR 2.5 INCH NPT- MALE (A299-2)
LOW COOLANT SHUTDOWN (H389-2) / WARNING(SENSOR) (H527-2)
STOP SWITCH EMERGENCY (K796-2)
SIGNALS-AUX, I/O (KS53-2)
METERS-AC OUTPUT ANALOG (H728-2)
RELAYS-AUX, QTY 2 (KS52-2)
DUCT ADAPTER - RADIATOR OUTLET (F013-2)
HOT
EXCITER/REG-PMG/EBS (B184-2 OR B979-2)
ALTERNATOR HEATER 120V, 30W, 1PH 120V, 100W, 1PH (A292-2)
BATTERY CHARGER (B927-2) (FAR SIDE)
3/4 INCH NPT-FEMALE FUEL CONNECTION NATURAL GAS
3/4 INCH NPT-FEMALE FUEL CONNECTION PROPANE
COOLANT HTR 120V, 500W, 1PH (E153-2) 120V, 1000W, 1PH (E154-2)
ENGINE OIL PROTECTION/ PRESSURE GAUGE (H012-2)
DOME AND MESH REMOVED FOR CLARITY
C30 N6, C36 N6, C40 N6,
C36 N6H, C40 N6H, C45 N6H, C50 N6H
REL NO ECO-149443 | LTR E | NO 3 | REVISION: ZONE D5; ADDED VIEW TO SHOW LARGER BATTERY TRAY OPTION (F253-2) | DRN DKS | CKD MKJ | APVD M. JAWALE | DATE 20JAN15
NO 4 | ZONE A2; 500W COOLANT HTR OPTION WAS (H036-2), ADDED 1000W COOLANT HTR OPTION (E154-2) | DRN DKS | CKD MKJ | APVD M. JAWALE | DATE 20JAN15
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS
X ±1 | .X ±0.8 | .XX± 0.38
SCALE 0.00- 4.99 +0.15/-0.08 | 5.00- 9.99 +0.20/-0.10 | 10.00-17.49 +0.25/-0.13 | 17.50-24.99 +0.30/-0.13
ANG TOL: ± 0.5° SCALE: 1/4
SUB TO NONE
DO NOT SCALE PRINT
DRN C_BADGUJAR
CKD S_DULAM
APVD D_GILLETT
DATE 10JUN13
CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP
FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994
FIRST USED ON ARROW
CUMMINS POWER GENERATION
OUTLINE,GENSET OPTIONS
SITE CODE PGF
SIZE D
A045C215
SHEET 2 OF 3
REV E

PTC® Creo® Parametric

PW1791-26 ATTACHMENT C

REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178681	E	1	ZONE A4; F231-2 AND F216-2___	--	--	--	--
			CONFIGURATIONS WAS F231-2___	--	--	--	--
			CONFIGURATION	PPP	KAM	M.WINGFIELD	09JUL18
		2	UPDATE VIEWS PICTORIALLY	PPP	KAM	M.WINGFIELD	09JUL18

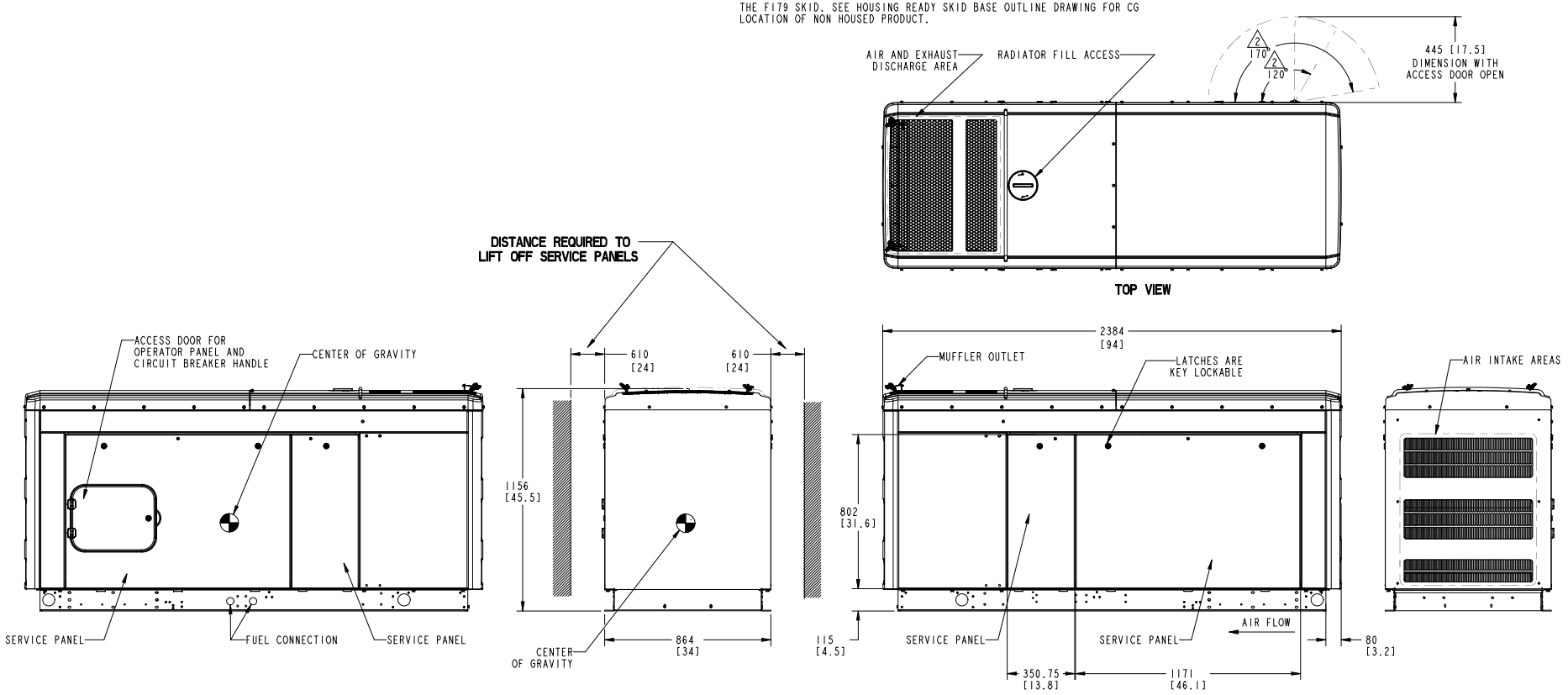
NOTES:

1. DIM [] IN INCHES

2. 120° AND 170° ARE DETENTED OPEN ANGLE FOR HINGE.

3. WHEN THE HOUSING INSTALLED ON AN OPEN GENERATOR SET, THE TOTAL WEIGHT WILL INCREASE BY 98 KG (216 LBS). THIS INCLUDES THE MUFFLER.

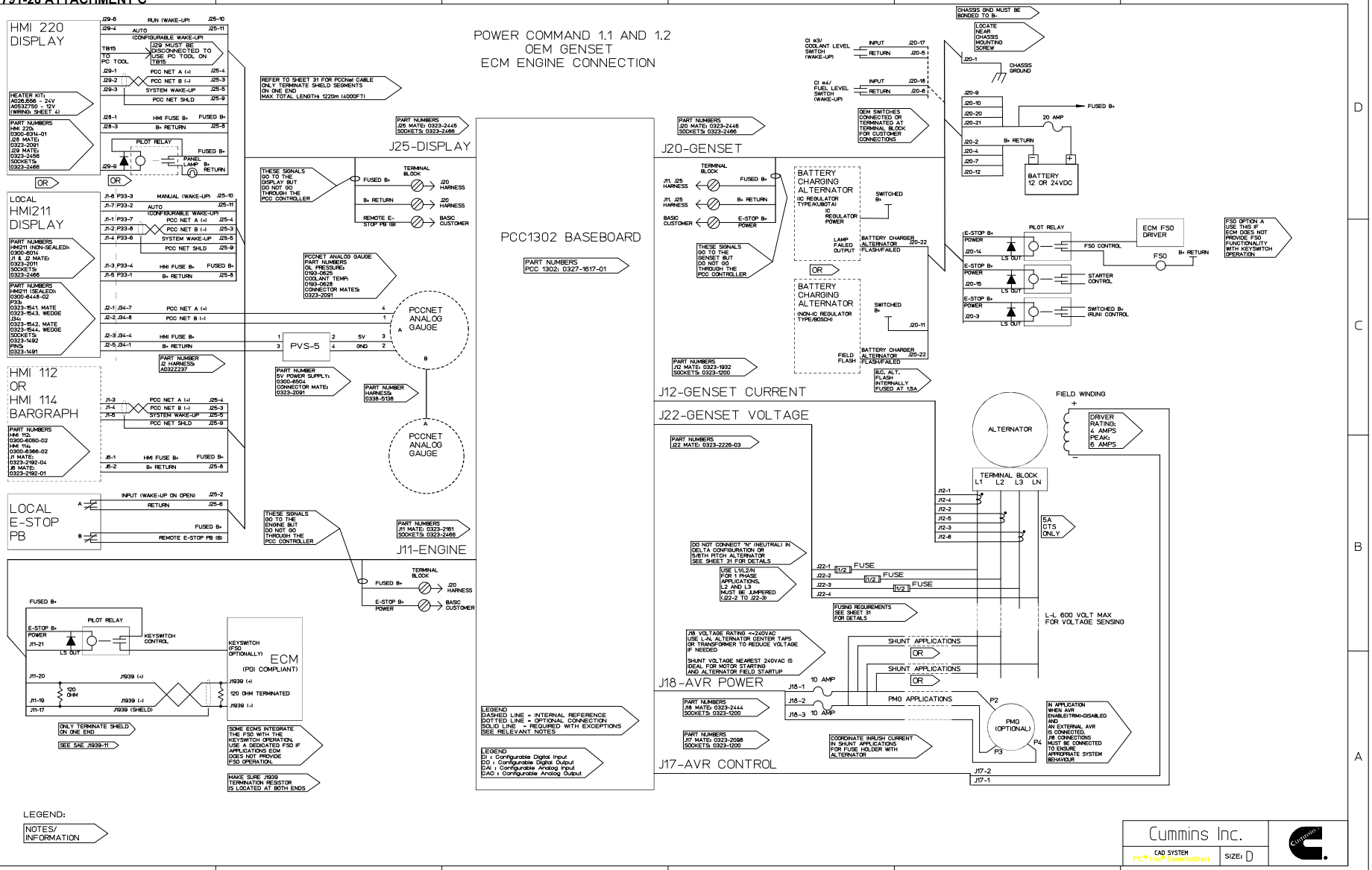
4. THE CENTER OF GRAVITY(CG) OF THE GENERATOR SET WHEN EQUIPPED WITH THIS HOUSING SHIFTS APPROXIMATELY 8MM (0.31 INCH) TOWARDS THE AIR DISCHARGE END OF THE HOUSING AND 38MM (1.5 INCH) HIGHER FROM THE GROUND. COMPARED TO THE EQUIVALENT NON-HOUSED PRODUCT WITH THE F179 SKID. SEE HOUSING READY SKID BASE OUTLINE DRAWING FOR CG LOCATION OF NON HOUSED PRODUCT.



F231-2 AND F216-2 ENCLOSURE CONFIGURATIONS

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		DIM TO NONE	DWN S_GAMBHIRE		CUMMINS POWER GENERATION
DIM: X ±1; .X ±0.8; .XX± 0.38 — DECIMALS: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13		DO NOT SCALE PRINT	CKD T_RADKE		OUTLINE,ENCLOSURE
ANG TOL: ± 0.5°	SCALE: 1/10	CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	APVD J_MATTHEWS	SITE CODE	
			DATE 17JAN13	PGF	SIZE D — A043J729 — SHEET 1 of 2 — REV E
			FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994	FIRST USED ON ARROW	

Drawing Name: A043J730 Revision: E
Part Name: A043J729 Revision: E
ECO-178681 Sheet 1 of 3

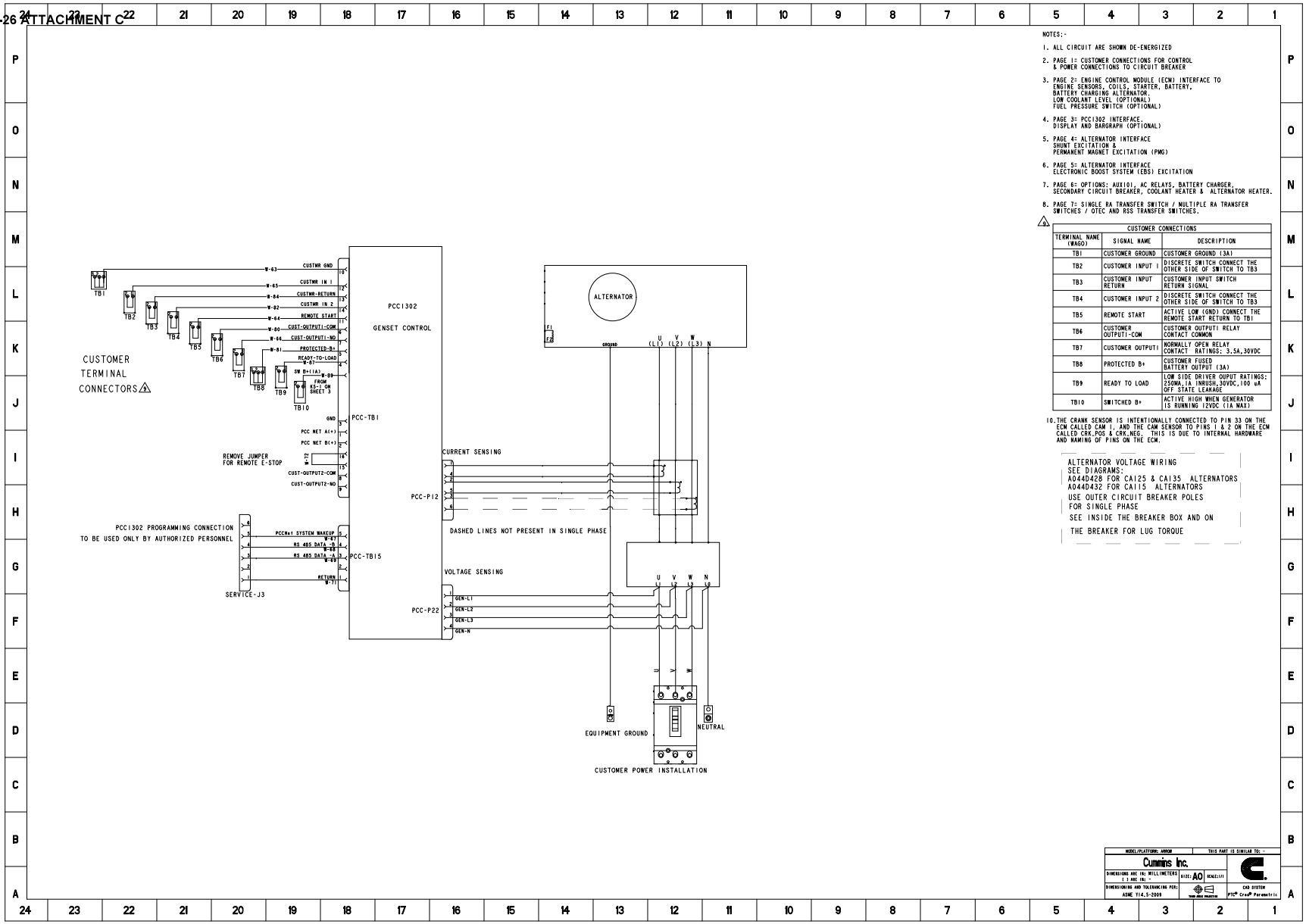


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Part Number: **0630-3440** Part Revision: **V**
Part Name: **DIAGRAM,CONTROL SCHEMATIC**
Drawing Category: **Detail** State: **Released**



NOTES:-

1. ALL CIRCUIT ARE SHOWN DE-ENERGIZED
2. PAGE 1: CUSTOMER CONNECTIONS FOR CONTROL & POWER CONNECTIONS TO CIRCUIT BREAKER
3. PAGE 2: ENGINE CONTROL MODULE (ECM) INTERFACE TO ENGINE SENSORS, COILS, STARTER, BATTERY, BATTERY CHARGING ALTERNATOR, LOW COOLANT LEVEL (OPTIONAL) FUEL PRESSURE SWITCH (OPTIONAL)
4. PAGE 3: PCC1302 INTERFACE. DISPLAY AND BARGRAPH (OPTIONAL)
5. PAGE 4: ALTERNATOR INTERFACE SHUNT EXCITATION & PERMANENT MAGNET EXCITATION (PMG)
6. PAGE 5: ALTERNATOR INTERFACE ELECTRONIC BOOST SYSTEM (EBS) EXCITATION
7. PAGE 6: OPTIONS: AUX101, AC RELAYS, BATTERY CHARGER, SECONDARY CIRCUIT BREAKER, COOLANT HEATER & ALTERNATOR HEATER.
8. PAGE 7: SINGLE RA TRANSFER SWITCH / NULTIPLE RA TRANSFER SWITCHES / OTEC AND RSS TRANSFER SWITCHES.

⚠9

CUSTOMER CONNECTIONS		
TERMINAL NAME (WAGO)	SIGNAL NAME	DESCRIPTION
TB1	CUSTOMER GROUND	CUSTOMER GROUND (3A)
TB2	CUSTOMER INPUT 1	DISCRETE SWITCH CONNECT THE OTHER SIDE OF SWITCH TO TB3
TB3	CUSTOMER INPUT RETURN	CUSTOMER INPUT SWITCH RETURN SIGNAL
TB4	CUSTOMER INPUT 2	DISCRETE SWITCH CONNECT THE OTHER SIDE OF SWITCH TO TB3
TB5	REMOTE START	ACTIVE LOW (GND) CONNECT THE REMOTE START RETURN TO TB1
TB6	CUSTOMER OUTPUT1-COM	CUSTOMER OUTPUT1 RELAY CONTACT COMMON
TB7	CUSTOMER OUTPUT1	NORMALLY OPEN RELAY CONTACT RATINGS: 3.5A, 30VDC
TB8	PROTECTED B+	CUSTOMER FUSED BATTERY OUTPUT (3A)
TB9	READY TO LOAD	LOW SIDE DRIVER OUPUT RATINGS: 250MA, 1A INRUSH, 30VDC, 100 uA OFF STATE LEAKAGE
TB10	SWITCHED B+	ACTIVE HIGH WHEN GENERATOR IS RUNNING 12VDC (1A MAX)

10. THE CRANK SENSOR IS INTENTIONALLY CONNECTED TO PIN 33 ON THE ECM CALLED CAM 1, AND THE CAM SENSOR TO PINS 1 & 2 ON THE ECM CALLED CRK_POS & CRK_NEG. THIS IS DUE TO INTERNAL HARDWARE AND NAMING OF PINS ON THE ECM.

ALTERNATOR VOLTAGE WIRING
SEE DIAGRAMS:
A044D428 FOR CAI25 & CAI35 ALTERNATORS
A044D432 FOR CAII5 ALTERNATORS
USE OUTER CIRCUIT BREAKER POLES FOR SINGLE PHASE
SEE INSIDE THE BREAKER BOX AND ON THE BREAKER FOR LUG TORQUE

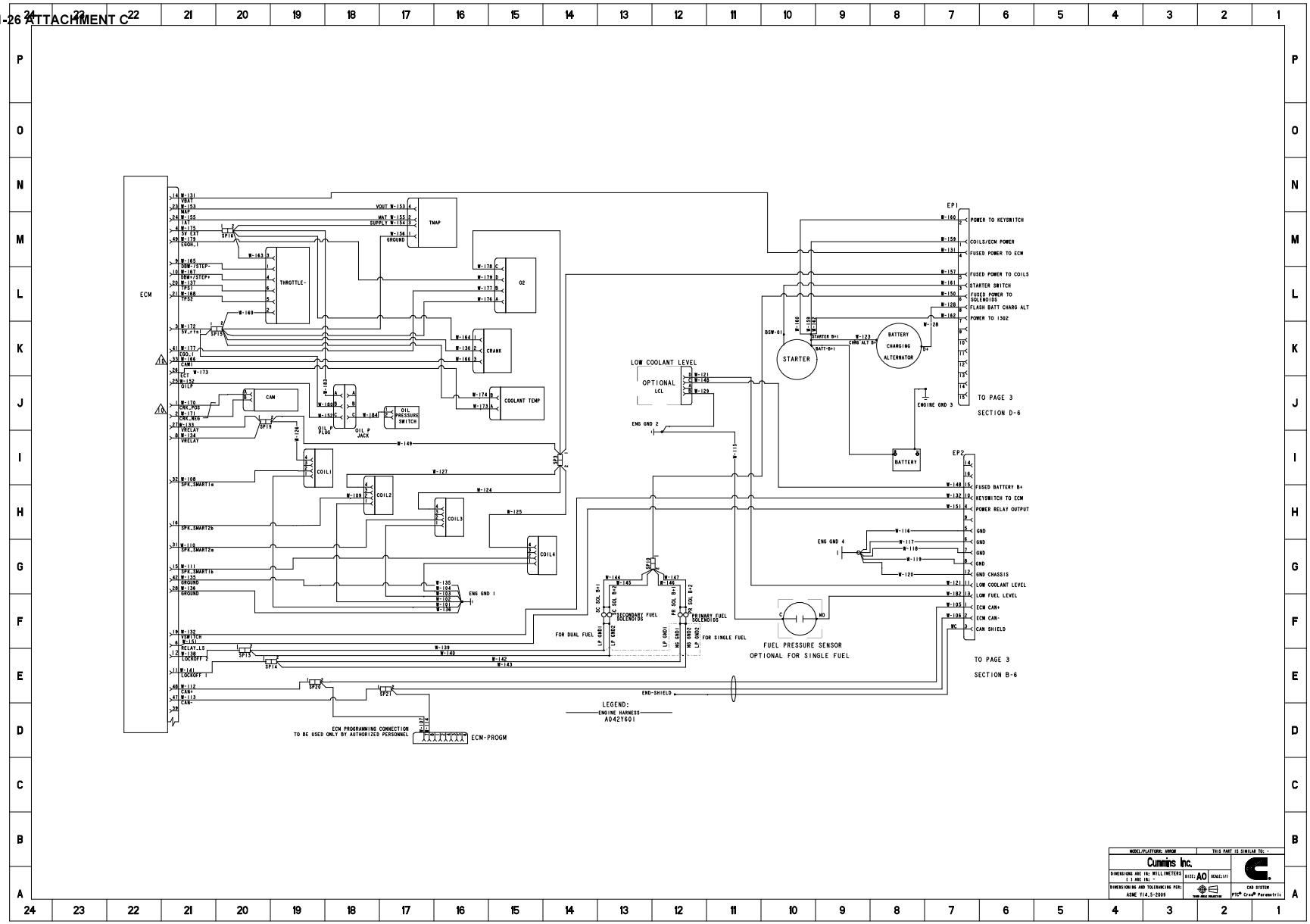
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Cummins Inc.
DIMENSIONS ARE IN: MILLIMETERS [ ] ARE IN: -
SIZE: A0
DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009
CAD SYSTEM: PTC Creo Parametric

Document Generated: **20OCT2023 17:41 GMT**

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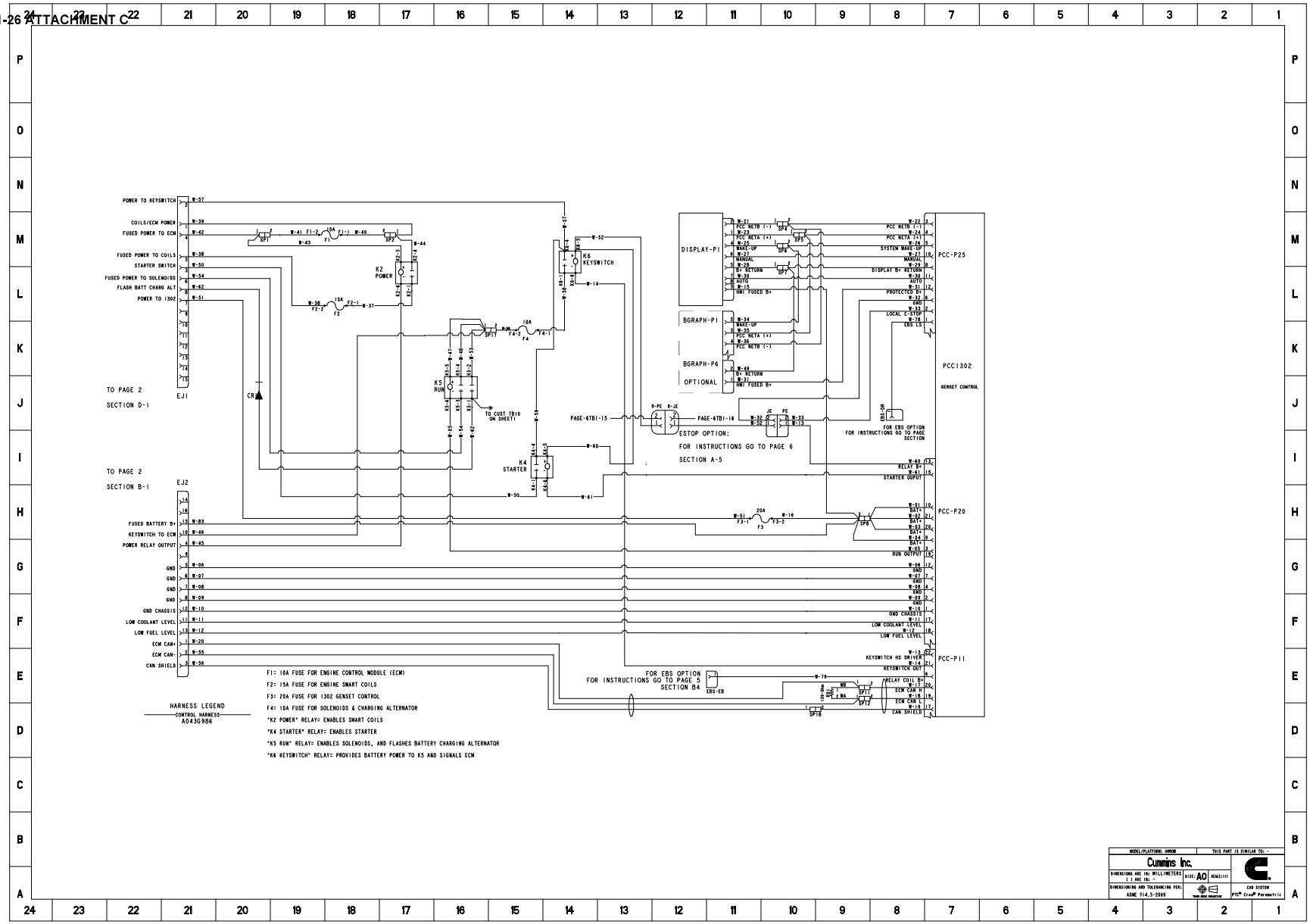
Part Number: **A044K485** Part Revision: **N**
Part Name: **DIAGRAM,WIRING**
Drawing Category: **Detail** State: **Released**



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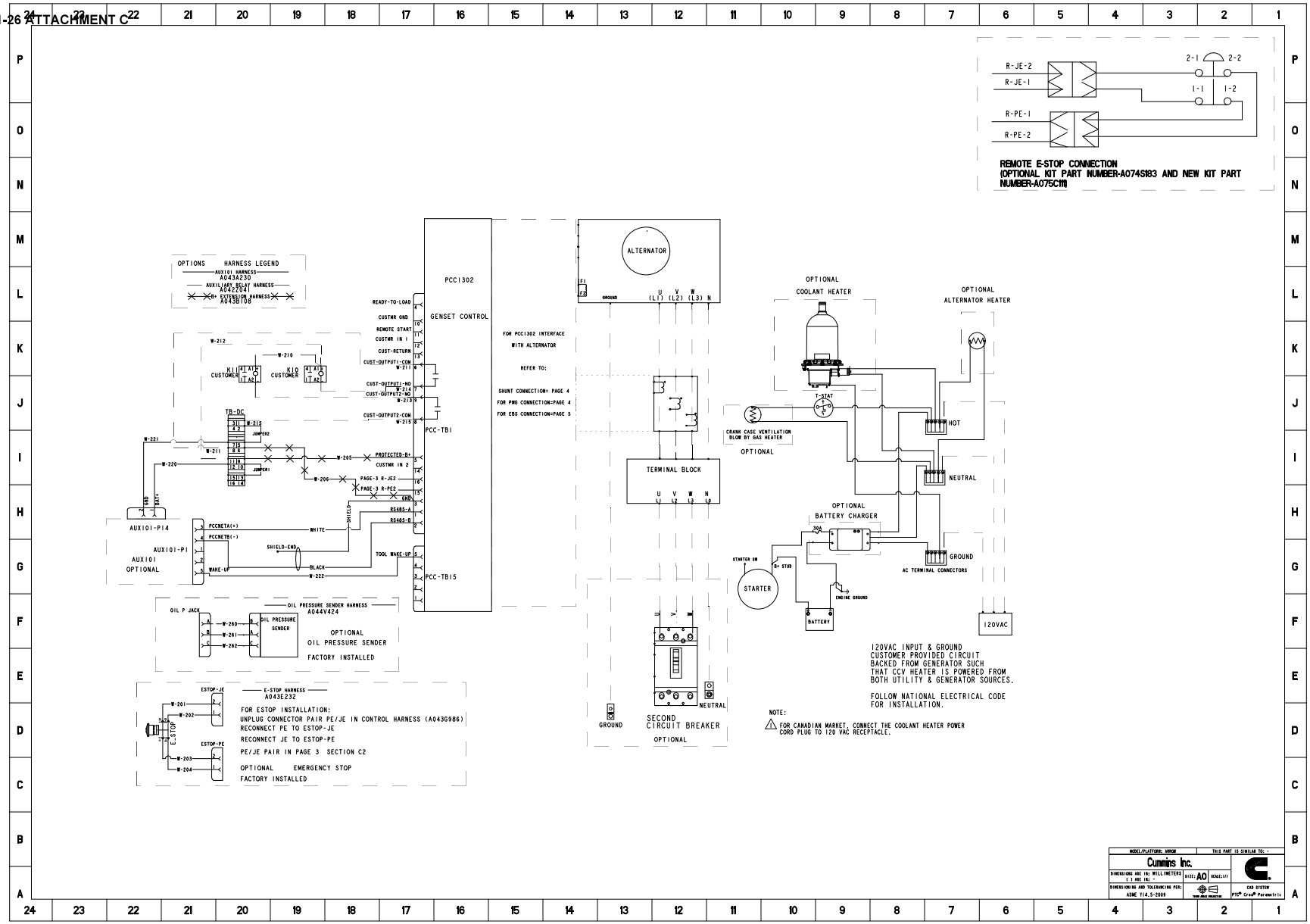


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Commercial Extended Warranty Statements

Our energy working for you.™

Cummins Power Generation

Commercial Extended Warranty Statements

Feature Codes

L040
L093
L028
L030
L031
L041

Our energy working for you.™

Power Generation

Limited Standby 2 Year or 1,500 hour Comprehensive Extended Warranty – L028

Commercial Generating Set

When purchased, this limited extended warranty applies to Cummins Power Generation® branded commercial generating sets and associated accessories (hereinafter referred to as "Product").

This warranty covers any failures of the Product, under normal use and service, which result from a defect in material or factory workmanship.

Warranty Period:

The warranty start date is the date of initial start up, first rental, demonstration or 18 months after factory ship date, whichever is sooner. The coverage duration is 2 years from warranty start date or 1,500 hours or whichever occurs first.

Emergency Standby Power (ESP) is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage. The permissible average power output over 24 hours of operation shall not exceed 70% of the ESP.

Cummins Power Generation® Responsibilities:

In the event of a failure of the Product during the extended warranty period due to defects in material or workmanship, Cummins Power Generation® will only be responsible for the following costs:

- All parts and labor required to repair the Product.
- Reasonable travel expenses to and from the Product site location.
- Maintenance items that are contaminated or damaged by a warrantable failure.

Owner Responsibilities:

The owner will be responsible for the following:

- Notifying Cummins Power Generation® distributor or dealer within 30 days of the discovery of failure.
- Installing, operating, commissioning and maintaining the Product in accordance with Cummins Power Generation®'s published policies and guidelines.
- Providing evidence for date of commissioning.
- Providing sufficient access to and reasonable ability to remove the Product from the installation in the event of a warrantable failure.

In addition, the owner will be responsible for:

- Incremental costs and expenses associated with Product removal and reinstallation resulting from non-standard installations.
- Costs associated with rental of generating sets used to replace the Product being repaired.
- Costs associated with labor overtime and premium shipping requested by the owner.
- All downtime expenses, fines, all applicable taxes, and other losses resulting from a warrantable failure.

Limitations:

This limited extended warranty does not cover Product failures resulting from:

- Inappropriate use relative to designated power rating.
- Inappropriate use relative to application guidelines.
- Normal wear and tear.
- Improper and/or unauthorized installation.
- Owner's or operator's negligence, accidents or misuse.
- Lack of maintenance or unauthorized repair.
- Noncompliance with any Cummins Power Generation® published guideline or policy.
- Use of improper or contaminated fuels, coolants or lubricants.
- Improper storage before and after commissioning.
- Owner's delay in making Product available after notification of potential Product problem.

- Use of steel enclosures within 60 miles of the coast of salt water when aluminum or an alternate non-corrosive material enclosure option is available.
- Replacement parts and accessories not authorized by Cummins Power Generation®.
- Use of Battle Short Mode.
- Owner or operator abuse or neglect such as: operation without adequate coolant or lubricants; overfueling; overspeeding; lack of maintenance to lubricating, cooling or air intake systems; late servicing and maintenance; improper storage, starting, warm-up, run-in or shutdown practices, or for progressive damage resulting from a defective shutdown or warning device.
- Damage to parts, fixtures, housings, attachments and accessory items that are not part of the generating set.

This limited extended warranty does not cover costs resulting from:

- Difficulty in gaining access to the Product.
- Repair of cosmetic damage to enclosures.

Items not covered by this limited extended warranty:

- Batteries
- Enclosures
- Coolant heating elements
- Maintenance items

Aftertreatment component failures

.

www.cumminspower.com

CUMMINS POWER GENERATION® RIGHT TO FAILED COMPONENTS:

Failed components claimed under warranty remain the property of Cummins Power Generation®. Cummins Power Generation® has the right to reclaim any failed component that has been replaced under warranty.

THE WARRANTIES SET FORTH HEREIN ARE THE SOLE WARRANTIES MADE BY CUMMINS POWER GENERATION ® IN REGARD TO THE PRODUCT. CUMMINS POWER GENERATION® MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT IS CUMMINS POWER GENERATION® LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This limited extended warranty shall be enforced to the maximum extent permitted by applicable law. This limited extended warranty gives the owner specific rights that may vary from state to state or from jurisdiction to jurisdiction.

Product Model Number:_____

Product Serial Number:_____

Date in Service:_____

SUBMITTAL PACKAGE



Marion County

Prepared for:

Brian Nicholas
Marion County Public Works
555 CT ST NE
Salem, OR 97301-3980

Cummins Salesperson:

Mark Wahlberg CS931@cummins.com 503-307-7529

Cummins Project Manager:

Samantha Norman samantha.norman@cummins.com (425) 902-9513

PLEASE COMPLETE THIS SECTION OR PROVIDE SIGNOFF TO PROCEED

☐ **Revise with corrections provided** **Date:** 6/23/2025

☑ **Approved and released for production**

By (name and company): Brian Nicholas, Marion County Public Works Department

Requested delivery date: December 15, 2025

Requested delivery address: 5155 Silverton Road NE, Salem, OR 97305

Contact person and phone # for deliveries: Michael Pierce, 408.857.2040

Salesforce O# n/a

BMS #

Customer PO#

Date 6/16/25 Rev _1

Serving Cummins Customers

Cummins power solutions are supported by the largest and best-trained worldwide-certified sales/distributor network in the industry. This network will help you select and install the critical power solution to meet the requirements of your specific application. This same network provides experts with advanced technology to make your life easier while providing a seamless support experience.

IMPORTANT: *The critical power solution information and specifications included in this pdf can be used by the site contractor(s) and/or engineer(s) to assist with planning for and accomplishing the overall power solution installation. Please forward this document to the appropriate personnel, as necessary.*

It is the obligation of the electrical contractor and reviewing engineer to determine that the item quantities and accuracy of this submittal is correct as required for the job. Any inaccuracies or deviations must be addressed with Cummins Inc. before release to manufacturing. Any releases of material to manufacturing by the above parties constitute an acceptance of the accuracy of the submittal. Any changes after release will be viewed as a change order, subject to pricing changes. Please take the time to review this package for accuracy to prevent any after-shipment problems that could cause delay in energization.

Cummins certifies that these drawings, material lists, specification and datasheets have been checked prior to submittal and they:

- *accurately depict the proposed equipment*
- *provide current information to the date of the submittal and*
- *present true and accurate equipment information.*

This Approval Drawing Package is submitted as our interpretation of the project requirements and/or the specifications for this job. Please note that issuance of these submittals shall not be deemed or interpreted as performance nor acceptance of your purchase order terms and conditions.

For questions or comments regarding this submittal, please contact the Cummins Project Manager listed on the title page.

13 June 2025

Bill of Material

Feature Code	Description	Qty
C35D6	**C35D6, Diesel Genset, 60Hz, 35kW**	**1**
Install-US-Stat	U.S. EPA, Stationary Emergency Application	
C35 D6_C35 D6	C35D6, 35kW, 60Hz, Standby, Diesel Genset	
C35 D6_A331-2	Duty Rating - Standby Power (ESP)	
C35 D6_L169-2	Emission Certification, EPA, Tier 3, NSPS CI Stationary Emergency	
C35 D6_L090-2	Listing - UL 2200	
C35 D6_L193-2	NFPA 110 Type 10 Level 1 Capable	
C35 D6_L225-2	HCAI (formerly OSHPD) Seismic Pre-Approval Certification	
C35 D6_L228-2	Cert - Seismic, IBC2000, IBC2003, IBC2006, IBC2009, IBC2011	
C35 D6_B240-2	Exciter/Reg - Torque Match	
C35 D6_R104-2	Voltage - 120/240, 1 Phase, 3 Wire	
C35 D6_B949-2	Alternator - 60Hz, 4L, 240/120V, 1 Phase, 120C, 40C Ambient	
C35 D6_A292-2	Alternator Heater, 120 Volt AC	
C35 D6_F231-2	Aluminum Sound Attenuated Level 1 Enclosure, with Exhaust System	
C35 D6_P176-2	Enclosure Color - Green, Aluminum	
C35 D6_F252-2	Enclosure - Wind Load 180 MPH, ASCE7-10	
C35 D6_F253-2	Larger Battery Rack	
C35 D6_F179-2	Skidbase - Housing Ready	
C35 D6_C301-2	Fuel Tank - Regional, Dual Wall, Sub Base, 24 Hour Minimum	
C35 D6_C310-2	Low Fuel Level Switch, 40%	
C35 D6_C312-2	Mechanical Fuel Gauge	
C35 D6_C315-2	Fuel Tank Vent Extension Kit, 12ft External Vents, 1 Normal, 2 Emergency	
C35 D6_C318-2	Switch - Fuel Tank, Rupture Basin	
C35 D6_H608-2	Control Mounting - Right Facing	
C35 D6_H700-2	PowerCommand 1.1 Controller	
C35 D6_H012-2	Gauge - Oil Pressure	
C35 D6_K796-2	Stop Switch - Emergency	
C35 D6_H536-2	Control Display Language - English	
C35 D6_KV03-2	Load Connection - Single	
C35 D6_KV17-2	Circuit Breaker, Location A, 150A, 2P, 600 Volts AC, 80%, UL	
C35 D6_1850	Right CB - None	
C35 D6_A366-2	Engine Governor - Electronic, Isochronous	
C35 D6_A422-2	Engine Starter - 12 Volt DC Motor	
C35 D6_D041-2	Engine Air Cleaner - Normal Duty	
C35 D6_A333-2	Battery Charging Alternator	
C35 D6_BB89-2	Battery Charger - 6 Amp, Regulated	
C35 D6_E125-2	Engine Cooling - Radiator, High Ambient Air Temperature, Ship Fitted	
C35 D6_H389-2	Shutdown - Low Coolant Level	
C35 D6_E089-2	Extension - Coolant Drain	
C35 D6_H669-2	Engine Coolant - 50% Antifreeze, 50% Water Mixture	
C35 D6_E153-2	Coolant Heater,Cold Ambient	
C35 D6_H268-2	Extension - Oil Drain	
C35 D6_H706-2	Engine Oil	
C35 D6_L028-2	Genset Warranty - 2 Years Base	
C35 D6_L050-2	Literature - English	

C35 D6_A322-2 C35 D6_L261-2 A048C539-FRD	Packing - Skid, Poly Bag Ship Loose - Vent Kit A Fuel Tank, Extension Kit-1 Normal, 2 Emergency, 12ft	
0416-1051	**Battery-Wet, 12V, Group 26, 530Amp**	**1**
Miscellaneous	**Pilla Remote E-Stop [Shipped Loose]**	**1**
A054V134	**PC Lon Gateway, Lon Modbus, Lon Modbus/TCP Gateway**	**1**
Miscellaneous	**Acumen Telematics – Cloud - Wi-Fi + Cellular + Ethernet connectivity – Modbus + J1939 (Private – NA variant) - A068E639 [Shipped Loose]**	**1**
Service - start up & testing	**Service - Standard Start Up Service (no spec) and System Testing**	**1**

NOTES:

Cummins quote is valid for 30 days. This quotation is based on the bill of materials from the ESCO 911 project and email dated 4.30.25. Contractor to verify application meets requirements. All other specifications and drawings are excluded. We know of no addenda.

Specification sheet

Diesel generator set

25 kW - 40 kW

EPA emissions

stationary Standby



Description

Cummins® generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby applications.

Features

Cummins heavy-duty engine - Rugged 4-cycle, liquid-cooled, industrial diesel engine delivers reliable power, low emissions and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 50 °C (122 °F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The intelligent design has removable panels and service doors to provide easy access for service and maintenance.

Fuel tanks - Two dual wall sub-base fuel tank series are offered as optional features, providing economical and flexible solutions to meet extensive code requirements on diesel fuel tanks.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

	Standby rating 60 Hz		Prime rating 60 Hz		Data sheets 60 Hz
Model	kW	kVA	kW	kVA	
C25 D6	25	31.3	22.7	28.4	NAD-5860
C30 D6	30	37.5	27	33.8	NAD-5861
C35 D6	35	43.8	32	40	NAD-5862
C40 D6	40	50	36	45	NAD-5863

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Generator set specifications

Governor regulation class	ISO8528 Part 1 Class G2
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 0.5% - 3 Phase only
Frequency regulation	Isochronous
Random frequency variation	± 0.5%
Radio frequency emissions compliance	FCC code Title 47 Part 15 Class B

Engine specifications

Bore	95.0 mm (3.74 in.)
Stroke	115.1 mm (4.53 in.)
Displacement	3.3 litres (199 in^3)
Configuration	Cast iron, in-line, 4 cylinder
Battery capacity	550 amps at ambient temperature of 0 °F to 32 °F (-18 °C to 0 °C)
Battery charging alternator	40 amps
Starting voltage	12 volt, negative ground
Fuel system	Indirect injection, number 2 diesel fuel, fuel filter, electric fuel shut off
Fuel filter	Single element, 10 micron filtration, spin-on fuel filter with water separator
Air cleaner type	Dry replaceable element
Lube oil filter type(s)	Spin-on, full flow
Standard cooling system	50 °C (122 °F) ambient cooling system

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	120 ºC (248 °F) Standby
Exciter type	Torque match (shunt) with PMG/EBS as option
Alternator cooling	Direct drive centrifugal blower
AC waveform Total Harmonic Distortion (THDV)	< 5% no load to full linear load, < 3% for any single harmonic
Telephone Influence Factor (TIF)	< 50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	0.03

Available voltages

Single phase	3 phase			
• 120/240	• 120/208	• 120/240 delta	• 277/480	• 347/600

Note: Consult factory for other voltages.

Generator set options

Fuel system
- Basic fuel tanks
- Regional fuel tanks

Engine
- Engine air cleaner – normal or heavy duty
- Shut down – low oil pressure
- Extension – oil drain

Alternator
- 120 °C (248 °F) temperature rise alternator
- 105 °C (221 °F) temperature rise alternator
- Excitation Boost System (EBS) or PMG
- Alternator heater, 120 V

Control
- AC output analog meters (bargraph)
- Stop switch – emergency
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)

Electrical
- Single circuit breaker
- Dual circuit breakers
- 80% rated circuit breakers
- 100% rated circuit breakers

Enclosure
- Aluminum enclosure sound level 1 or level 2, with muffler installed, sandstone or green color
- Open set

Cooling system
- Shutdown – low coolant level
- Warning – low coolant level
- Extension – coolant drain
- Cold weather option for operating at <4 °C (40 °F)

Exhaust system
- Exhaust connector - NPT
- Open set with muffler mounted

Generator set application
- Battery rack, larger battery
- Radiator outlet duct adapter

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Generator set options (continued)

Warranty

- Base warranty – 2 year, 1000 hour, Standby
- Standby, 3 year, 1500 hour, parts
- Standby, 5 year, 2500 hour, parts
- Standby, 3 year, 1500 hour, parts and labor
- Standby, 5 year, 2500 hour, parts and labor
- Standby, 3 year, 1500 hour, parts, labor and travel
- Standby, 5 year, 2500 hour, parts, labor and travel

Generator set accessories

- Coolant heater kit
- Battery rack, larger battery
- Battery heater kit
- HMI211RS in-home display, including pre-configured 12" harness
- HMI211 remote display, including pre-configured 12" harness
- HMI220 remote display
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)
- Annunciator – RS485
- Remote monitoring device – PowerCommand 500
- Battery charger – stand-alone, 12 V
- Circuit breakers
- Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- Enclosure paint touch up kit
- Mufflers – industrial, residential or critical
- Alternator Excitation Boost System (EBS) or PMG
- Alternator heater
- Maintenance and service kit
- Engine lift kit
- Various fuel tanks and accessories

Control system PowerCommand 1.1





PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and isochronous governing (optional). Major features include:

- Battery monitoring and testing features and smart starting control system.
- Standard PCCNet interface to devices such as remote annunciator for NFPA 110 applications.
- Control boards potted for environmental protection.
- Control suitable for operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and altitudes to 5000 meters (13,000 feet).
- Prototype tested; UL, CSA, and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics.

Operator/display panel

- Manual off switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -40 °C to +70 °C
- Bargraph display (optional)

AC protection

- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High, low and weak battery voltage warning
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown

Alternator data

- Line-to-Line and Line-to-Neutral AC volts
- 3-phase AC current
- Frequency
- Total kVa

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Engine speed

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Other data
- Generator set model data
- Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)

Digital governing (optional)
- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation
- Integrated digital electronic voltage regulator
- 2-phase Line-to-Line sensing
- Configurable torque matching

Control functions
- Time delay start and cooldown
- Cycle cranking
- PCCNet interface
- (2) Configurable inputs
- (2) Configurable outputs
- Remote emergency stop
- Automatic Transfer Switch (ATS) control
- Generator set exercise, field adjustable

Options
- Auxiliary output relays (2)
- Remote annunciator with (3) configurable inputs and (4) configurable outputs
- PMG alternator excitation
- PowerCommand 500/550 for remote monitoring and alarm notification (accessory)
- Auxiliary, configurable signal inputs (8) and configurable relay outputs (8)
- Digital governing
- AC output analog meters (bargraph)
  - Color-coded graphical display of:
    - 3-phase AC voltage
    - 3-phase current
    - Frequency
    - kVa
- Remote operator panel

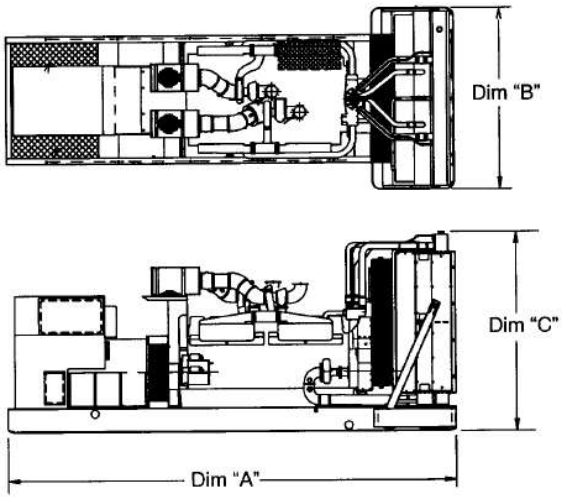
Ratings definitions

Emergency Standby Power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):
Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

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PW1791-26 ATTACHMENT C

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set weight* dry kg (lbs)	Set weight* wet kg (lbs)
Open set					
C25 D6	2224 (87.5)	864 (34)	1121 (44.13)	504 (1115)	525 (1161)
C30 D6	2224 (87.5)	864 (34)	1121 (44.13)	533 (1178)	553 (1224)
C35 D6	2224 (87.5)	864 (34)	1121 (44.13)	552 (1221)	573 (1267)
C40 D6	2224 (87.5)	864 (34)	1121 (44.13)	566 (1252)	587 (1298)
Sound attenuated enclosure Level 1					
C25 D6	2384 (93.8)	864 (34)	1156 (45.5)	551 (1219)	572 (1265)
C30 D6	2384 (93.8)	864 (34)	1156 (45.5)	580 (1282)	600 (1328)
C35 D6	2384 (93.8)	864 (34)	1156 (45.5)	599 (1325)	620 (1371)
C40 D6	2384 (93.8)	864 (34)	1156 (45.5)	613 (1356)	634 (1402)
Sound attenuated enclosure Level 2					
C25 D6	2629 (103.5)	864 (34)	1156 (45.5)	570 (1261)	591 (1307)
C30 D6	2629 (103.5)	864 (34)	1156 (45.5)	599 (1324)	619 (1370)
C35 D6	2629 (103.5)	864 (34)	1156 (45.5)	618 (1367)	639 (1413)
C40 D6	2629 (103.5)	864 (34)	1156 (45.5)	632 (1398)	653 (1444)

* Weights represent a set with standard features. See outline drawings for weights of other configurations.

Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

ISO 9001	This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.	UL	The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies.
PTS	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.	**U.S. EPA**	Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.
CSA	All low voltage models are CSA certified to product class 4215-01.	**International Building Code**	The generator set is certified for seismic application in accordance with International Building Code (IBC) 2012.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

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NAS-5872-EN.DOCX (07/21) A052G039

Generator set data sheet

Model: C35 D6
Frequency: 60 Hz
Fuel type: Diesel
KW rating: 35 standby
32 prime
Emissions level: EPA Emission Stationary Standby

Exhaust emission data sheet:	**EDS-1184**
Exhaust emission compliance sheet:	**EPA-1253**
Sound performance data sheet:	**MSP-1182**
Cooling performance data sheet:	**MCP-264**
Prototype test summary data sheet:	**PTS-322**

Fuel consumption

	Standby				Prime			
	kW (kVA)				kW (kV			
Ratings	35 (43.75)				32 (40)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**[illegible]**	**Full**
US gph	1.15	1.80	2.47	3.16	1.05	1.64	2.25	2.87
L/hr	4.35	6.81	9.35	11.96	3.97	6.21	8.52	[illegible]

Engine

	Standby rating	**Prime rating**
Engine manufacturer	Cummins Inc.	
Engine model	4BT3.3-G5	
Configuration	Cast iron, in-line, 4 cylinder	
Aspiration	Turbocharged	
Gross engine power output, kWm (bhp)	51 (69)	[illegible]
BMEP at set rated load, kPa (psi)	855.63 (124.1)	777.72 ([illegible])
Bore, mm (in)	95 (3.74)	
Stroke, mm (in)	115 (4.53)	
Rated speed, rpm	1800	
Piston speed, m/s (ft/min)	6.9 (1359)	
Compression ratio	20.8:1	
Lube oil capacity, L (qt)	7.9 (8.35)	
Overspeed limit, rpm	2250	

Fuel flow

Maximum fuel flow, L/hr (US gph)	49.5 (13.1)
Maximum fuel inlet restriction with clean filter, mm Hg (in Hg)	58.42 (2.3)
Maximum return restriction, mm Hg (in Hg)	375.92 (14.8)

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Air

	Standby rating	Prime rating
Combustion air, m3/min (scfm)	3.74 (132)	[redacted]
Maximum air cleaner restriction with clean filter, kPa (in H2O)	1.25 (5)	
Alternator cooling air, m3/min (cfm)	16.84 (595)	

Exhaust

Exhaust flow at set rated load, m^3/min (cfm)	9.62 (340)	[redacted] 20 (325)
Exhaust temperature, °C (°F)	500.5 (933)	[redacted] (901)
Maximum back pressure, kPa (in H_2O)	10.22 (41)	[redacted]
Actual exhaust back pressure with CPG fitted muffler, kPa (in H_2O)	4.56 (18.3)	[redacted]

Standard set-mounted radiator cooling

Ambient design, ° C (° F)	50 (122)	
Fan load, kW_m (HP)	2.79 (3.8)	
Coolant capacity (with radiator), L (US Gal)	14.8 (3.9)	
Cooling system air flow, m^3/min (scfm)	93.2 (3290)	
Total heat rejection, MJ/min (Btu/min)	2.15 (2038.75)	[redacted]
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)	

Weights[2]

Unit dry weight kgs (lbs)	601 (1325)
Unit wet weight kgs (lbs)	622 (1371)

Notes:
[1] For non-standard remote installations contact your local Cummins Power Generation representative.
[2] Weights represent a set with standard features. See outline drawing for weights of other configurations.

Derating factors

Standby	Engine power available up to 2900m (9500 ft) and ambient temperatures up to 40 °C (104 °F). Above these conditions, derate at 3% per 300m (985 ft) and 6% per 10 °C (18 °F).
Prime	Engine power available up to 2400m (7870 ft) and ambient temperatures up to 40 °C (104 °F). Above these conditions, derate at 5% per 300m (985 ft) and 9% per 10 °C (18 °F).

Ratings definitions

Emergency standby power (ESP):	**Limited-time running power (LTP):**	**Prime power (PRP):**	**Base load (continuous) power (COP):**
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

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Alternator data

Standard Alternators		Single phase table	Three phase table			
Maximum temperature rise above 40 °C ambient		120 °C	120 °C	120 °C	120 °C	120 °C
Feature code		B949-2	B946-2	B986-2	B943-2	B952-2
Alternator data sheet number		ADS-579	ADS-577	ADS-577	ADS-577	ADS-577
Voltage ranges		120/240	120/208	120/240	277/480	347/600
Voltage feature code		R104-2	R098-2	R106-2	R002-2	R114-2
Surge kW		39.72	39.76	39.76	39.76	40.03
Motor starting kVA (at 90% sustained voltage)	Shunt	68	86	86	86	86
	EBS	112	135	135	135	135
Full load current amps at standby rating		145.8	121.6	105.4	52.7	42.1

Optional alternators for improved motor starting capability		Single phase table	Three phase table			
Maximum temperature rise above 40 °C ambient		105 °C	105 °C	105 °C	105 °C	105 °C
Feature code		BB96-2	BB93-2	BB94-2	BB95-2	BB92-2
Alternator data sheet number		ADS-580	ADS-579	ADS-579	ADS-579	ADS-579
Voltage ranges		120/240	120/208	120/240	277/480	347/600
Voltage feature code		R104	R098-2	R106-2	R002-2	R114-2
Surge kW		38.28		40.03	40.03	40.03
Motor starting kVA (at 90% sustained voltage)	Shunt	76	95		95	95
	PMG	120	NA	NA	NA	NA
	EBS	NA	150	150	150	150
Full load current amps at standby rating		145.8	121.6	105.4	52.7	42.1

Notes:

[1] Single phase power can be taken from a three phase generator set at up to 2/3 set rated 3-phase kW at 1.0 power factor. Also see Note 3 below.

[2] The broad range alternators can supply single phase output up to 2/3 set rated 3-phase kW at 1.0 power factor.

[3] The extended stack (full single phase output) and 4 lead alternators can supply single phase output up to full set rated 3-phase kW at 1.0 power factor.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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NAD-5862b-EN (10/14)

Power Generation

cumminspower.com

Specification Sheet

PowerCommand® 1.1 Control System



Description

The PowerCommand control system is a microprocessor-based generator set monitoring, metering and control system designed to meet the demands of today's engine driven generator sets. The integration of all control functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. These control systems have been designed and tested to meet the harsh environment in which gensets are typically applied.

Features

Easy to view: HMI 211RS for residential use. 128 x 64 pixel graphic LED backlight LCD.

Easy to use: Tactile buttons for generator set start/stop. Residential Standby display for convenient use.

Modbus® interface: Eliminates need for MODLON.

Progressive protective functions: Advanced Overcurrent Protection – Generator set monitoring & protection.

Digital voltage regulation: Single phase full wave SCR type regulator compatible with either shunt or PMSG systems.

Digital engine speed governing: Provides isochronous frequency regulation.

12 and 24 VDC battery operation.

Automatic mains failure: Smooth & automatic transfer and re-transfer of load from utility to generator set & vice-versa.

Exerciser clock: Runs generator set exerciser routines for dependability of operation.

Warranty and service: Backed by a comprehensive warranty and worldwide distributor service network.

Certification: Suitable for us on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC Mil Std., CE, UKCA and CSA standards.

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PowerCommand Digital Generator Set Control PCC 1302



Description

The PowerCommand generator set control is suitable for use on a wide range of generator sets in non-paralleling applications. The PowerCommand control is compatible with shunt or PMG excitation style. It is suitable for use with reconnectable or non-reconnectable generators, and it can be configured for any frequency, voltage and power connection from 120-600 VAC Line-to-Line.

Power for this control system is derived from the generator set starting batteries. The control functions over a voltage range from 8 VDC to 30 VDC.

Features

- 12 and 24 VDC battery operation.
- Digital voltage regulation.
- Digital engine speed governing (where applicable) - Provides isochronous frequency regulation.
- Full authority engine communications (where applicable) - Provides communication and control with the Engine Control Module (ECM).
- Common harnessing - with higher feature Cummins controls allows for easy field upgrades.
- Generator set monitoring - Monitors status of all critical engine and alternator functions.
- Digital genset metering (AC and DC).
- Genset battery monitoring system - to sense and warn against a weak battery condition.
- Engine starting - Includes relay drivers for starter, fuel shut off (FSO), glow plug/spark ignition power and switch B+ applications.
- Generator set protection - Protects engine and alternator.
- Advanced serviceability - using InPower™, a PC-based software service tool.
- Environmental protection - The control system is designed for reliable operation in harsh environments. The main control board is a fully encapsulated module that is protected from the elements.
- Exerciser function – Routine exercising of generator set.
- Supports dual fuel control.
- Automatic Mains Failure function built in generator set controller. Modbus interface - for interconnecting to customer equipment.
- Configurable inputs and outputs - Four discrete inputs and two dry contact relay outputs.
- Warranty and service - Backed by a comprehensive warranty and worldwide distributor service network.
- Certifications - Suitable for use on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC, Mil Std., CE, UKCA and CSA standards.

Base Control Functions

HMI capability

Operator adjustments - The HMI includes provisions for many set up and adjustment functions.

Generator set hardware data - Access to the control and software part number, generator set rating in kVA and generator set model number is provided from the HMI or InPower™.

Data logs - Includes engine run time, controller on time, number of start attempts.

Fault history - Provides a record of the most recent fault conditions with control hours time stamp. Up to 10 events are stored in the control non-volatile memory.

Alternator data

- Voltage (single or three phase Line-to-Line and Line-to-Neutral)
- Current (single or three phase)
- kVA (three phase and total)
- Frequency
- Engine data
- Starting battery voltage
- Engine speed
- Engine temperature
- Engine oil pressure
- Partial Full Authority Engine (FAE) data (where applicable)
- Service adjustments - The HMI includes provisions for adjustment and calibration of generator set control functions. Adjustments are protected by a password. Functions include:
- Engine speed governor adjustments
- Voltage regulation adjustments
- Cycle cranking
- Configurable fault set up
- Configurable output set up
- Meter calibration
- Units of measurement

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Engine control

SAE-J1939 CAN interface to full authority ECMs (where applicable) - Provides data swapping between genset and engine controller for control, metering and diagnostics.

12 VDC/24 VDC battery operations - PowerCommand will operate either on 12 VDC or 24 VDC batteries.

Isochronous governing (where applicable) - Capable of controlling engine speed within +/-0.25% for any steady state load from no load to full load. Frequency drift will not exceed +/-0.5% for a 33 °C (60 °F) change in ambient temperature over an 8 hour period.

Temperature dependent governing dynamics (with electronic governing) - Modifies the engine governing control parameters as a function of engine temperature. This allows the engine to be more responsive when warm and more stable when operating at lower temperature levels.

Remote start mode - Accepts a ground signal from remote devices to automatically start the generator set and immediately accelerate to rated speed and voltage. The remote start signal will also wake up the control from sleep mode. The control can incorporate a time delay start and stop.

Remote and local Emergency stop - The control accepts a ground signal from a local (genset mounted) or remote (facility mounted) Emergency stop switch to cause the generator set to immediately shut down. The generator set is prevented from running or cranking with the switch engaged. If in sleep mode, activation of either Emergency stop switch will wake up the control.

Sleep mode - The control includes a configurable low current draw state to minimize starting battery current draw when the genset is not operating. The control can also be configured to go into a low current state while in auto for Prime applications or applications without a battery charger.

Engine starting - The control system supports automatic engine starting. Primary and backup start disconnects are achieved by one of three methods: magnetic pickup, battery charging alternator feedback or main alternator output frequency. The control also supports configurable glow plug control when applicable.

Cycle cranking - Configurable for the number of starting cycles (1 to 7) and duration of crank and rest periods. Control includes starter protection algorithms to prevent the operator from specifying a starting sequence that might be damaging.

Time delay start and stop (cooldown) - Configurable for time delay of 0-300 seconds prior to starting after receiving a remote start signal and for time delay of 0-600 seconds prior to shut down after signal to stop in normal operation modes. Default for both time delay periods is 0 seconds.

Alternator control

The control includes an integrated line-to-line sensing voltage regulation system that is compatible with shunt or PMG excitation systems. The voltage regulation system is full wave rectified and has an SCR output for good motor starting capability. Major system features include:

Digital output voltage regulation - Capable of regulating output voltage to within +/-1.0% for any loads between no load and full load. Voltage drift will not exceed +/-1.5% for a 40 ºC (104 ºF) change in temperature in an eight hour period. On engine starting or sudden load acceptance, voltage is controlled to a maximum of 5% overshoot over nominal level.

The automatic voltage regulator feature can be disabled to allow the use of an external voltage regulator.

Torque-matched V/Hz overload control - The voltage roll-off set point and rate of decay (i.e. the slope of the V/Hz curve) is adjustable in the control.

Protective Functions

On operation of a protective function the control will indicate a fault by illuminating the appropriate status LED on the HMI, as well as display the fault code and fault description on the LCD. The nature of the fault and time of occurrence are logged in the control. The service manual and InPower service tool provide service keys and procedures based on the service codes provided. Protective functions include:

Battle short mode

When enabled and the battle short switch is active, the control will allow some shutdown faults to be bypassed. If a bypassed shutdown fault occurs, the fault code and description will still be annunciated, but the genset will not shutdown. This will be followed by a fail to shutdown fault. Emergency stop shutdowns and others that are critical for proper operation are not bypassed. Please refer to the Control Application Guide or Manual for list of these faults.

Configurable alarm and status inputs

The control accepts up to four alarm or status inputs (configurable contact closed to ground or open) to indicate a configurable (customer-specified) condition. The control is programmable for warning, shutdown or status indication and for labelling the input.

Emergency stop

Annunciated whenever either Emergency stop signal is received from external switch.

General engine protection

Low and high battery voltage warning - Indicates status of battery charging system (failure) by continuously monitoring battery voltage.

Weak battery warning - The control system will test the battery each time the generator set is signaled to start and indicate a warning if the battery indicates impending failure.

Fail to start (overcrank) shutdown - The control system will indicate a fault if the generator set fails to start by the completion of the engine crack sequence.

Fail to crank shutdown - Control has signaled starter to crank engine but engine does not rotate.

Cranking lockout - The control will not allow the starter to attempt to engage or to crank the engine when the engine is rotating.

Hydro mechanical fuel system engine protection

Overspeed shutdown - Default setting is 115% of nominal.

Low lube oil pressure warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

High lube oil temperature warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

High engine temperature warning/shutdown - Level is pre-set (configurable with InPower) to match the capabilities of the engine used. Control includes time delays to prevent nuisance alarms.

Low coolant temperature warning - Indicates that engine temperature may not be high enough for a 10 second start or proper load acceptance.

Sensor failure indication - Logic is provided on the base control to detect analog sensor or interconnecting wiring failures.

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Full authority electronic engine protection

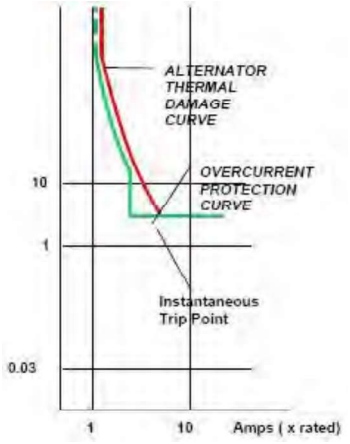
Engine fault detection is handled inside the engine ECM. Fault information is communicated via the SAE-J1939 data link for annunciation in the HMI

Alternator protection

High AC voltage shutdown (59) - Output voltage on any phase exceeds pre-set values. Time to trip is inversely proportional to amount above threshold. Values adjustable from 105-130% of nominal voltage, with time delay adjustable from 0.1-10 seconds. Default value is 110% for 10 seconds.

Low AC voltage shutdown (27) - Voltage on any phase has dropped below a pre-set value. Adjustable over a range of 50-95% of reference voltage, time delay 2-20 seconds. Default value is 85% for 10 seconds.

Overcurrent warning/shutdown - Implementation of the thermal damage curve with instantaneous trip level calculated based on current transformer ratio and application power rating.



-

Under frequency shutdown (81 u) - Generator set output frequency cannot be maintained. Settings are adjustable from 2-10 Hz below nominal governor set point, for a 5-20 second time delay. Default: 6 Hz, 10 seconds.

Over frequency shutdown/warning (81o) - Generator set is operating at a potentially damaging frequency level. Settings are adjustable from 2-10 Hz above nominal governor set point for a 1-20 second time delay. Default: 6 Hz, 10 seconds, enabled.

Loss of sensing voltage shutdown - Shutdown of generator set will occur on loss of voltage sensing inputs to the control.

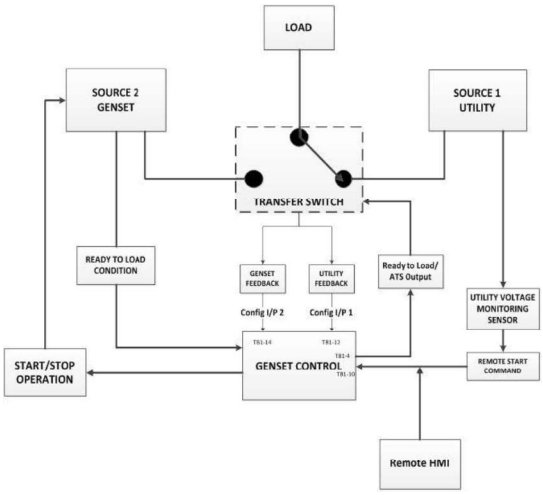
Field overload shutdown - Uses field voltage to shutdown generator set when a field overload condition occurs.

Advanced Functions

Automatic mains failure*

The built in AMF feature provides the automatic transfer and re-transfer of the load from utility to generator set and vice-versa.

- Automatically starts-stops the generator set in the event of utility failure.
- Annunciates faults.



-

* A utility voltage monitoring sensor (as shown in the AMF diagram above) must be connected in order to use the AMF feature on the 1302 control. Use Schneider Electric Relay RSB1A120U7 and Socket RSZE1S35M.

Exerciser clock

The exerciser clock runs the generator set exerciser routines for dependability of operation.

Field Control Interface

Input signals to the base control include:

- Remote start
- Local and Emergency stop
- Configurable inputs: Control includes (4) input signals from customer discrete devices that are configurable for warning, shutdown or status indication, as well as message displayed.

Output signals from the PowerCommand control include:

- Configurable relay outputs: Control includes (2) relay output contacts rated at 2 A. These outputs can be configured to activate on any control warning or shutdown fault as well as ready to load, not in auto, common alarm, common warning and common shutdown.
- Ready to load (generator set running) signal: Operates when the generator set has reached 90% of rated speed and voltage and latches until generator set is switched to off or idle mode.

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PowerCommand Human Machine Interface HMI211



Description

This control system includes an intuitive operator interface panel that allows for complete genset control as well as system metering, fault annunciation, configuration and diagnostics. The interface includes five generator set status LED lamps with both internationally accepted symbols and English text to comply with customer needs. The interface also includes an LED backlit LCD display with tactile feel soft-switches for easy operation and screen navigation. It is configurable for units of measurement and has adjustable screen contrast and brightness.

The *run/off/auto* switch function is integrated into the interface panel.

All data on the control can be viewed by scrolling through screens with the navigation keys. The control displays the current active fault and a time-ordered history of the five previous faults.

Features

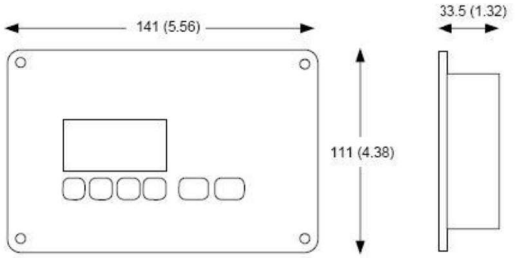
- LED indicating lamps:
  - Remote start
  - Not in auto
  - Shutdown
  - Warning
  - Auto
  - Run
- 128 x 64 pixels graphic LED backlight LCD.
- Four tactile feel membrane switches for LCD defined operation. The functions of these switches are defined dynamically on the LCD.
- Two tactile feel membrane switches dedicated for off and back.
- Allows for complete genset control setup.
- Certifications: Suitable for use on generator sets that are designed, manufactured, tested and certified to relevant UL, NFPA, ISO, IEC, Mil Std., CE, UKCA and CSA standards.
- HMI 211RS provides convenience for residential use.

Communications Connections

PC tool interface - This RS-485 communication port allows the HMI to communicate with a personal computer running InPower.

This RS-485 communication port allows the HMI to communicate with the main control board.

Mechanical Drawing



HMI

Dimensions: mm (inches)

Software

InPower (beyond 6.0 version) is a PC-based software service tool that is designed to directly communicate to PowerCommand generator sets and transfer switches, to facilitate service and monitoring of these products.

Environment

The control is designed for proper operation without recalibration in ambient temperatures from -40 ºC (-40 ºF) to +70º C (158 ºF), and for storage from -55 ºC (-67 ºF) to +80 ºC (176 ºF). Control will operate with humidity up to 95%, non-condensing.

The HMI is designed for proper operation in ambient temperatures from -40 ºC* (-40 ºF) to +70 ºC (158 ºF), and for storage from -40 ºC* (-40 ºF) to +80 ºC (176 ºF).

The control board is fully encapsulated to provide superior resistance to dust and moisture. Display panel has a single membrane surface, which is impervious to effects of dust, moisture, oil and exhaust fumes. This panel uses a sealed membrane to provide long reliable service life in harsh environments.

The control system is specifically designed and tested for resistance to RFI/EMI and to resist effects of vibration to provide a long reliable life when mounted on a generator set. The control includes transient voltage surge suppression to provide compliance to referenced standards.

* Heater accessory (pn: A040H853) is available for enhanced operation below -20 ºC

Certifications

PowerCommand meets or exceeds the requirements of the following codes and standards:

- NFPA 110 for level 1 and 2 systems.
- ISO 8528-4: 1993 compliance, controls and switchgear.
- CE and UKCA marking: The control system is suitable for use on generator sets to be CE and UKCA-marked.
- EN 50081-1,2 residential/light industrial emissions or industrial emissions.
- EN 50082-1,2 residential/light industrial or industrial susceptibility.
- ISO 7637-2, level 2; DC supply surge voltage test.
- Mil Std. 202C, Method 101 and ASTM B117: Salt fog test.
- PowerCommand control systems and generator sets are designed and manufactured in ISO 9001 certified facilities.
- UL 6200 recognized and suitable for use on UL 2200 Listed generator sets.
- CSA C282-M1999 compliance.
- CSA 22.2 No. 14 M91 industrial controls.

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Warranty

All components and subsystems are covered by an express limited one year warranty. Other optional and extended factory warranties and local distributor maintenance agreements are available

Accessories

1301-1302 Upgrade Kit (HM)	0541-1431
PowerCommand 500 (LAN)	A040X126
Remote HMI 211	0541-1394
Remote HMI 211RS	A046K103
I/O Expansion (Aux 101)	0541-1291
HMI Heater Accessory Kit	A040H853

Parts Ordering Information

1302 Control Board	0327-1617-02
1302 control Board – Arrow	A043W505
Aux 104 (Governor Control)	0327-1507
HMI 211 Without Heater	0300-6014
HMI 211 with Heater	A026G237

Additional Resources

Resource	Where to find
1302 Service Manual	QSOL
Accessories Catalog	cumminspower.com
Additional Controls Information	PowerSuite Library

PCCNet COMPATIBLE

For more information contact your local Cummins distributor or visit power.cummins.com

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PDS-1566 | PD00000147 | (01/22)

Data Sheet

Circuit Breakers

Description

This Data sheet provides circuit breaker manufacturer part numbers and specifications. The Circuit breaker box description is the rating of that breaker box installation on a Cummins Generator. Please refer to the website of the circuit breaker manufacturer for breaker specific ratings and technical information.

Applicable Models

Engine	Models					
Kubota	C10D6	C15D6	C20D6			
QSJ2.4	C20N6	C25N6	C30N6	C30N6H	C36N6	C36N6H
	C40N6	C40N6H	C50N6H	C60N6H		
B3.3	C25D6	C30D6	C35D6	C40D6	C50D6	C60D6
QSJ5.9G	C45N6	C50N6	C60N6	C70N6	C80N6	C100N6
QSJ8.9G	C125N6	C150N6	C175N6B	C200N6B		
QSB5	DSFAC	DSFAD	DSFAE	C50D6C	C60D6C	C80D6C
	C100D6C	C125D6C				
QSB7	DSGAA	DSGAB	DSGAC	DSGAD	DSGAE	
		C125D6D	C150D6D	C175D6D	C200D6D	
QSL9	DSHAD	DQDAA	DQDAB	DQDAC		
QSM11	DQHAB					
QSX15	DFEJ	DFEK				

Instructions

1. Locate the circuit breaker feature code or part number and use the charts below to find the corresponding manufacturer circuit breaker catalog number.

2. Use the first letter of the circuit breaker catalog number to determine the "frame" of the breaker. If the first letter is an “N”, use the second letter. Then follow the corresponding website link from the table below to find the breaker catalog number description.

Please refer to the catalog numbering systems page, which is given in the chart, to understand the nomenclature of the catalog number.

Frame	Catalog name*	Catalog number description page(s)
P	0612CT0101 http://www.schneider-electric.us/en/download/document/0612CT0101/	16-17
H, J, and L	0611CT1001 http://www.schneider-electric.us/en/download/document/0611CT1001/	8-9
Q	0734CT0201 http://www.schneider-electric.us/en/download/document/0734CT0201/	4

*The following link may also be used to search specifically by the breaker part number or for the catalog name listed above. http://products.schneider-electric.us/technical-library/

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3. Search the catalog by using the first 3 letters of the breaker catalog number and the first 5 numbers to find information such as trip curves, accessories, and dimensional details regarding the circuit breaker.

*If the catalog number starts with “N”, skip the N and begin your search with the second letter.

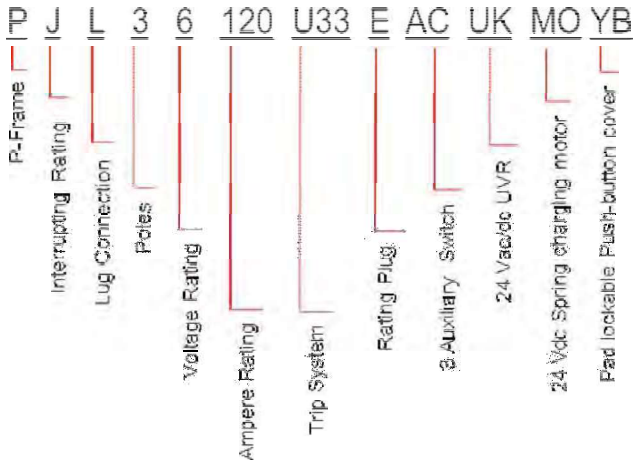
*If the first 3 letters are “PJP,” the search will not work. You will need to start with just “PJ” and use the description pages to obtain the information you are looking for on the “PJP.”

Example

After finding your circuit breaker catalog number to be "PJL36120U33EACUKMOYB," navigate to the P-frame catalog by using the link provided.

Look at pages 16-17 of the pdf catalog to find the nomenclature of the breaker.

Search the P-frame spec sheet using the search "PJL36120.”



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PW1791-26 ATTACHMENT C

Feature Code	Breaker Box Description	Cummins Part #	Manufacturer	Breaker Catalog Number	Trip Unit	Plug Type
KV10-2	CB,Loc A,50A,2P,600VAC,80%,UL	A043E181	Schneider Electric	HDL26050	Thermal Magnetic	N/A
KV11-2	CB,Loc A,60A,2P,600VAC,80%,UL	A043E179	Schneider Electric	HDL26060	Thermal Magnetic	N/A
KV12-2	CB,Loc A,70A,2P,600VAC,80%,UL	A043E169	Schneider Electric	HDL26070	Thermal Magnetic	N/A
KV13-2	CB,Loc A,80A,2P,600VAC,80%,UL	A043D328	Schneider Electric	HDL26080	Thermal Magnetic	N/A
KV14-2	CB,Loc A,90A,2P,600VAC,80%,UL	A043D326	Schneider Electric	HDL26090	Thermal Magnetic	N/A
KV15-2	CB,Loc A,100A,2P,600VAC,80%,UL	A043D324	Schneider Electric	HDL26100	Thermal Magnetic	N/A
KV16-2	CB,Loc A,125A,2P,600VAC,80%,UL	A043D274	Schneider Electric	HDL26125	Thermal Magnetic	N/A
KV17-2	CB,Loc A,150A,2P,600VAC,80%,UL	A043C676	Schneider Electric	HDL26150	Thermal Magnetic	N/A
KV18-2	CB,Loc A,175A,2P,600VAC,80%,UL	A043E202	Schneider Electric	JDL26175	Thermal Magnetic	N/A
KV19-2	CB,Loc A,200A,2P,600VAC,80%,UL	A043E199	Schneider Electric	JDL26200	Thermal Magnetic	N/A
KV20-2	CB,Loc A,225A,2P,600VAC,80%,UL	A043E195	Schneider Electric	JDL26225	Thermal Magnetic	N/A
KV21-2	CB,Loc A,250A,2P,600VAC,80%,UL	A043E193	Schneider Electric	JDL26250	Thermal Magnetic	N/A
KV30-2	CB,Loc A,15A,3P,600VAC,80%,UL	A043L506	Schneider Electric	HDL36015	Thermal Magnetic	N/A
KV31-2	CB,Loc A,20A,3P,600VAC,80%,UL	A043L480	Schneider Electric	HDL36020	Thermal Magnetic	N/A
KV32-2	CB,Loc A,25A,3P,600VAC,80%,UL	A043L508	Schneider Electric	HDL36025	Thermal Magnetic	N/A
KV33-2	CB,Loc A,30A,3P,600VAC,80%,UL	A043L475	Schneider Electric	HDL36030	Thermal Magnetic	N/A
KV34-2	CB,Loc A,40A,3P,600VAC,80%,UL	A043L464	Schneider Electric	HDL36040	Thermal Magnetic	N/A

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Specification sheet

Dual wall sub-base diesel fuel tanks -

10-200 kW generator sets



Description

Cummins® offers two series of fuel tanks (basic series and regional series) for the 10~125 kW diesel generator sets. The “basic” series of fuel tanks provide economical solutions for areas with no or minimal local/regional code requirements on diesel fuel tanks. The footprint of “basic” tanks matches the generator set’s footprint. The “regional” series of fuel tanks provide flexible and upgradable solutions for areas with extensive local/regional code requirements on diesel fuel tanks. The footprint of the “regional” series of fuel tanks extends beyond the generator set to allow room for installation of optional features at factory or accessories in the field for meeting local/regional code requirements or customer specification on diesel fuel tanks. All fuel tanks and optional features are compatible with factory installed enclosures.

These tanks are constructed of heavy gauge steel and include an internally reinforced baffle structure for supporting the generator set. The fuel tank design features fewer seams and welds for better corrosion resistance performance.

These tanks are pre-treated with a conversion coating and then finished with a textured powder paint. The paint has superior UV and chemical resistance with best-in-class adhesion, flexibility, and durability to resist chipping and substrate corrosion. Both interior compartments are treated with a rust preventative for extended corrosion protection.

These tanks are UL and ULC Listed as secondary containment generator base tanks. Inner and outer containments are leak checked per UL and ULC testing procedures to ensure their integrity.

These fuel tanks are offered in various sizes to satisfy different fuel capacities requirements.

Compatible generator set model

Engine	D1703M	V2203M	4BT3.3-G5	4BTAA3.3-G7	QSB5-G5	QSB7-G5
Generator set model names	C10D6	C20D6	C25D6	C50D6	C50D6C	C125D6D
	C15D6		C30D6	C60D6	C60D6C	C150D6D
			C35D6		C80D6C	C175D6D
			C40D6		C100D6C	C200D6D
					C125D6C	

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Regional fuel tanks

Standard features:

UL 142 and ULC-S601 listed - Minimum 110% secondary IBC 2012 and 2015 certified - All optional features are seismically certified with this range of tanks and generator sets. Requires factory-installed 2 ft vent extensions or higher.

UL 142 & ULC-S601 listed - Minimum 125% secondary containment capacity.

NFPA & IFC - Capable of meeting NFPA 30, NFPA 110, and IFC codes with available factory-installed optional features.

Emergency pressure relief vents - Ensure adequate ventilation of the primary and secondary tank compartments under extreme temperature and emergency conditions.

Normal atmospheric vent - "Mushroom" style vent ensures adequate venting of the primary tank during fill, generator set running, and temperature variations. Raised above fuel fill.

Raised fuel fill - Includes lockable sealed fuel cap.

Lifting eyes - Allow lifting of fuel tank with generator set installed.

Optional features:

Secondary containment basin switch (rupture switch) - Activates a warning in the event of a primary tank leak. Side Mounted.

Low fuel level switch - Activates a warning when 40% of the fuel is left in the tank.

Fuel level gauge - Provides direct reading of fuel level. Top mounted.

Electric fuel level sender with gauge - Allows remote electrical monitoring of fuel tank level. Flying leads for customer connection.

Tank to foundation clearance - 2-inch bolt-thru risers allow visual inspection under tank including rodent barrier.

Spill containment box for fuel fill - 5 gallon capacity with integral drain (to tank). Lockable lid.

Overfill prevention valve - Shuts off fuel flow during filling at approximately 95% full*. Includes fill down tube, as needed, to terminate within 6" of the bottom of the fuel tank. Uses a 2 inch type "F" cam lock adapter for filling.

High fuel switch - Activates at 90% of full fuel level. Flying leads for customer connection.

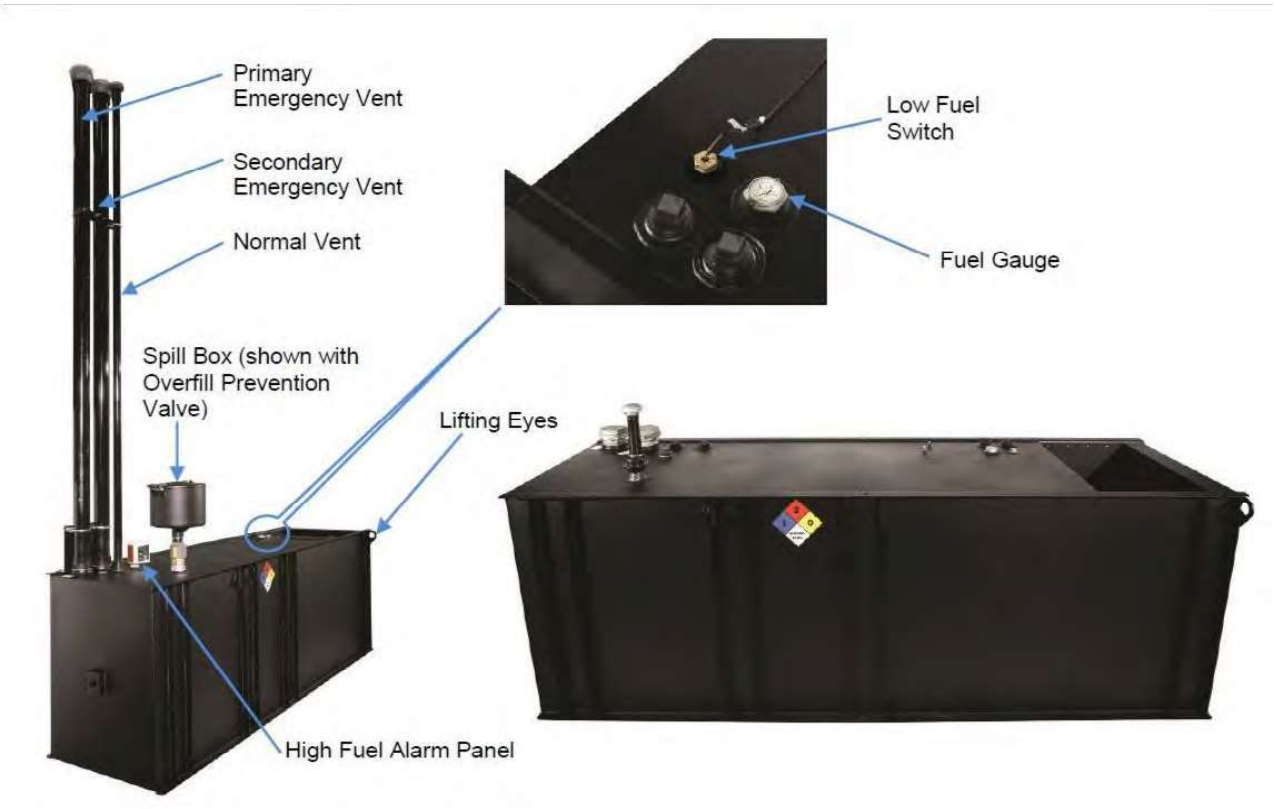
High fuel alarm panel - Provides audible & visual alarm when fuel level reaches 90% of full fuel level.

Fill drop tube - Terminates fuel fill location within 6" of the bottom of the fuel tank.

Vent extensions - Terminate normal and emergency vents (both primary and secondary) a minimum of 12 ft above the bottom of tank.

Seismic vent extensions - 2 ft normal and emergency (both primary & secondary) extensions to meet IBC/OSHPD seismic requirements.

* The OFPV inherently shuts off fuel at approximately 2" below the top of the fuel tank. Some tanks will shut off below this 95% fill level.



*Picture is for reference only. See outline drawing for tank specific information by model.

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PW1791-26 ATTACHMENT C

Regional tanks

Generator set Standby power output	Generator set model	Engine model	Fuel consumption (100% load, Standby)	Tank feature code	Minimum run time feature	Tank dimensions (L x W x H)	Nominal dry weight*	Tank usable volume	Actual run time w/o OFPV	Actual run time w/OFPV
kW			gal/hr		hr	inch	lbs	gal	hr	hr
10	C10 D6	D1703M	1.12	C301-2	24	87.6 x 34 x 15	510	74	66	56
				C303-2	48	87.6 x 34 x 15	510	74	66	56
				C305-2	72	87.6 x 34 x 23	723	132	118	107
				C307-2	96	87.6 x 34 x 23	723	132	118	107
15	C15 D6	D1703M	1.38	C301-2	24	87.6 x 34 x 15	510	74	53	45
				C303-2	48	87.6 x 34 x 15	510	74	53	45
				C305-2	72	87.6 x 34 x 23	723	132	95	86
				C307-2	96	87.6 x 34 x 32	962	195	141	132
20	C20 D6	V2203M	1.81	C301-2	24	87.6 x 34 x 15	510	74	41	35
				C303-2	48	87.6 x 34 x 23	723	132	73	66
				C305-2	72	87.6 x 34 x 32	962	195	108	101
				C307-2	96	87.6 x 34 x 32	962	195	108	101
25	C25 D6	4BT3.3-G5	2.42	C301-2	24	121 x 34 x 10.5	514	74	31	25
				C303-2	48	121 x 34 x 16.2	686	132	54	47
				C305-2	72	121 x 34 x 22.1	879	195	80	73
				C307-2	96	121 x 34 x 29.5	1120	263	109	101
30	C30 D6	4BT3.3-G5	2.81	C301-2	24	121 x 34 x 10.5	514	74	26	21
				C303-2	48	121 x 34 x 22.1	879	195	69	63
				C305-2	72	121 x 34 x 29.5	1120	263	94	87
				C307-2	96	121 x 34 x 42.0	1461	389	138	132
35	C35 D6	4BT3.3-G5	3.16	C301-2	24	121 x 34 x 16.2	686	132	42	36
				C303-2	48	121 x 34 x 22.1	879	195	62	56
				C305-2	72	121 x 34 x 29.5	1120	263	83	77
				C307-2	96	121 x 34 x 42.0	1461	389	123	117
40	C40 D6	4BT3.3-G5	3.66	C301-2	24	121 x 34 x 16.2	686	132	36	31
				C303-2	48	121 x 34 x 22.1	879	195	53	48
				C305-2	72	121 x 34 x 42.0	1461	389	106	101
				C307-2	96	121 x 34 x 42.0	1461	389	106	101
50	C50 D6	4BTAA3.3-G7	4.25	C301-2	24	121 x 34 x 16.2	686	132	31	27
				C303-2	48	121 x 34 x 29.5	1120	263	62	58
				C305-2	72	121 x 34 x 42.0	1461	389	92	87
60	C60 D6	4BTAA3.3-G7	5.04	C301-2	24	121 x 34 x 16.2	686	132	26	23
				C303-2	48	121 x 34 x 29.5	1120	263	52	49
				C305-2	72	121 x 34 x 42.0	1461	389	77	73
50	C50D6C	QSB5-G5	5.30	C301-2	24	154 x 40 x 22	1388	250	47	45
				C303-2	48	154 x 40 x 32	1657	425	80	76
				C305-2	72	154 x 40 x 32	1657	425	80	76
				C307-2	96	154 x 40 x 46	2096	625	118	112
60	C60D6C	QSB5-G5	6.10	C301-2	24	154 x 40 x 22	1388	250	41	39
				C303-2	48	154 x 40 x 32	1657	425	70	66
				C305-2	72	154 x 40 x 46	2096	625	102	97
				C307-2	96	154 x 40 x 46	2096	625	102	97
80	C80D6C	QSB5-G5	7.30	C301-2	24	154 x 40 x 22	1388	250	34	33
				C303-2	48	154 x 40 x 32	1657	425	58	55
				C305-2	72	154 x 40 x 46	2096	625	85	81
100	C100D6C	QSB5-G5	8.90	C301-2	24	154 x 40 x 22	1388	250	28	27
				C303-2	48	154 x 40 x 32	1657	425	48	45
				C305-2	72	154 x 40 x 46	2096	625	70	66
125	C125D6C	QSB5-G6	10.30	C301-2	24	154 x 40 x 22	1388	250	24	23
				C303-2	48	154 x 40 x 46	2096	625	60	58

* All weights are approximate.

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Regional tanks

Genset Standby power output	Genset model	Engine model	Fuel consumption (100% load, Standby)	Tank feature code	Minimum run time feature	Tank dimensions (L x W x H)	Nominal dry weight*	Tank usable volume	Actual run time w/o OFPV	Actual run time w/OFPV
kW			gal/hr		hr	inch	lbs	gal	hr	hr
125	C125D6D	QSB7-G5	10.1	C301-2	24	180x40x21	1477	351	34	30
				C303-2	48	180x40x42	2302	737	72	69
				[illegible]-2	72	180x40x42	2302	737	72	69
				C307-2	96	180x65.5x35.3	3552	1055	104	98
150	C150D6D		11.7	C301-2	[illegible]	180x40x21	1477	351	30	26
				C303-2	48	[illegible]x40x42	2302	737	63	59
				C305-2	72	180x65.[illegible]	3552	1055	90	84
175	C175D6D		13.3	C301-2	24	180x40x21	[illegible]477	351	26	23
				C303-2	48	180x40x42	2302	737	55	52
				C305-2	72	180x65.5x35.3	3552	[illegible]	79	74
200	C200D6D		14.9	C301-2	24	180x40x21	1477	351	[illegible]	21
				C303-2	48	180x40x42	2302	737	49	47
				C305-2	72	180x65.5x35.3	3552	1055	72	[illegible]

Certifications/standards/codes

UL 142 Listed - Cummins dual wall sub-base tanks are UL Listed and constructed in accordance with Underwriters Laboratories Standard UL 142 “steel aboveground tanks for flammable and combustible liquids,” as a “secondary containment generator base tank”

NFPA - Cummins tanks are built in accordance with all applicable NFPA codes:

- NFPA 30 - Flammable and Combustible Liquids code
- NFPA 37 - Standard for Installation and use of Stationary Combustible Engine and Gas Turbines
- NFPA 110 - Standard for Emergency and Standby Power Systems

ISO9001 - This product was designed and manufactured in facilities certified to ISO9001.

ULC - Cummins tanks are built in accordance with all applicable ULC codes

For more information contact your local Cummins distributor or visit power.cummins.com

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NAAC-5868-EN PD00001466 (06/23)

Sound data

C35 D6 **60 Hz**

Sound pressure level @ 7 meters, dB(A)

See notes 1-6 listed below

Configuration		Position (note 1)								8 position average
		1	2	3	4	5	6	7	8	
Standard – unhoused	Infinite exhaust	79.3	80.6	78.3	81.1	78.9	80.4	79.9	79.0	79.8
F217-2 – sound attenuated level 2	Mounted	67.1	69.5	67.0	68.7	67.9	68.6	66.2	68.0	68.0
F231-2 – sound attenuated level 1	Mounted	74.0	70.5	66.6	67.6	68.3	69.7	66.5	71.9	70.2

Sound power level, dB(A)

See notes 2-4, 7, 8 listed below

Configuration		Octave band center frequency (Hz)								Overall sound power level
		31.5	63	125	250	500	1000	2000	4000	8000	
Standard – unhoused	Infinite exhaust	47.4	68.6	75.2	95.8	97.4	99.2	100.5	96.8	90.4	105.5
F217-2 – sound attenuated level 2	Mounted	50.7	81.4	78.6	91.0	88.9	87.5	86.1	84.3	79.3	95.6
F231-2 – sound attenuated level 1	Mounted	50.2	81.0	77.5	92.8	89.7	88.2	87.5	85.4	80.1	96.7

Exhaust sound power level, dB(A)

See notes 2, 9 listed below

Open exhaust (no muffler) @ rated load	Octave band center frequency (Hz)									Overall sound power level
	31.5	63	125	250	500	1000	2000	4000	8000	
	47.2	83.4	87.3	94.9	103.2	107.4	111.5	109.1	105.0	115.3

Note:

1. Position 1 faces the generator front per ISO 8528-10. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All position are at 7 m (23 ft) from surface of the generator set and 1.2 m (48 in.) from floor level.
2. Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
3. Data based on full rated load.
4. Sound data with generator sets with infinite exhaust do not include exhaust noise.
5. Sound pressure levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
6. Reference sound pressure is 20 µPa.
7. Sound power levels per ISO 3744 and ISO 8528-10, as applicable.
8. Reference power = 1 pw (10^{-12} W).
9. Exhaust sound power levels are per ISO 6798, as applicable.

Cooling system data
C35 D6

High ambient air temperature radiator cooling system

	Fuel type	Duty	Rating (Kw)	Max cooling @ air flow static restriction, unhoused (inches water/mm water)					Housed in free air, no air discharge restriction	
				0.0/0.0	0.25/6.4	0.5/12.7	0.75/19.1	1.0/25.4	F231	F217
				Maximum allowable ambient temperature, degree C						
60 Hz	Diesel	Standby	35	55	55	55	N/A	N/A	53	50
[redacted]										

Notes:

1. Data shown are anticipated cooling performance for typical generator set.
2. Cooling data is based on 1000 ft (305 m) site test location.
3. Generator set power output may need to be reduced at high ambient conditions. Refer generator set data sheet for derate schedules.
4. Cooling performance may be reduced due to several factors including but not limited to: Incorrect installation, improper operation, fouling of the cooling system, and other site installation variables.

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CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-51071-01C (Revision 11)

Expiration Date: 6/30/2027

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2018, 2015, 2012

The following model designations, options, and accessories are included in this certification. Reference report number VMA-51071-01 as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Cummins Power Generation, Inc.; Diesel Gensets
Commercial Series; 10kW-200kW

The above referenced equipment is **APPROVED** for seismic application when properly installed[3], used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_p=1.5. The equipment is qualified by successful seismic shake table testing at the nationally recognized Dynamic Certification Laboratories under the witness of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels			
Certified **IBC**	**Importance $I_p \leq 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	z/h ≤ 1.0	z/h = 0.0
		$S_{DS} \leq 2.000$ g	$S_{DS} \leq 2.500$ g

Certified Seismic Installation Methods
Rigid Mounting From Unit Base To Rigid Structure

HEADQUARTERS
113 Main Street
Bloomingdale, NJ 07403
Phone: 973.838.1780
Toll Free: 800.569.8423
Fax: 973.492.8430

CALIFORNIA
180 Promenade Circle
Suite 300
Sacramento, CA 95834
Phone: 916.634.7771

TEXAS
11930 Brittmoore Park Drive
Houston, TX 77041
Phone: 713.466.0003
Fax: 713.466.1355

thevmcgroup.com

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CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certified Product Table:

Model	Power Rating	RPM	Max Length (in)	Max Width (in)	Max Height (in)	Max Weight with Enclosure (lbs.)	S_{DS} (g) @ z/h = 0.0	S_{DS} (g) @ z/h = 1.0
C10 D6	10 kW	1800	98	34	88	4300	2	2
C15 D6	15 kW					4400		
C20 D6	20 kW					4470		
C25 D6	25 kW		131			5890		
C30 D6	30 kW					5930		
C35 D6	35 kW					5960		
C40 D6	40 kW					6140		
C50 D6	50 kW					6260		
C60 D6	60 kW							
C50 D6C	50 kW		170	40	104	8943	2.5	2.5
C60 D6C	60 kW					8990		
C80 D6C	80 kW					9040		
C100 D6C	100 kW					9216		
C125 D6C	125 kW					9300		
C125 D6D			180	71	111	14300		
C150 D6D	150 kW							
C175 D6D	175 kW							
C200 D6D	200 kW							

Group	Type	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{Flex-H}	A_{Rig-H}	A_{Flex-V}	A_{Rig-V}	F_p/W_p
Seismic	AC156	2.00	2.00	3.20	2.40	1.33	0.53	1.44
		2.50				1.67	0.67	

This certification includes the open generator set and the enclosed generator set when installed with or without the sub-base tank. This certification also includes the sub-base tank as a stand-alone accessory. The generator set and included options shall be a catalogue design and factory supplied. The generator set and applicable options shall be installed and attached to the building structure per the manufacturer supplied seismic installation instructions. This certification excludes all non-factory supplied accessories, including but not limited to mufflers, isolation/ restraint devices, remote control panels, remote radiators, pumps and other electrical/mechanical components.

IBC CERTIFIED VMC GROUP

VMA-51071-01C (Revision 11)
Issue Date: Friday, July 3, 2015
Revision Date: Thursday, May 16, 2024
Expiration Date: Wednesday, June 30, 2027

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CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.

2. The following building codes are addressed under this certification:
   IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2012 referencing ASCE7-10 and ICC-ES AC-156
   Italian Eurocode 8 Annex Published 2012 (Building Code Annex)

3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for ensuring the proper installation of all anchors and mounting hardware.

4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, the VMC Group, and meets the seismic design levels claimed by this certificate.

5. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification makes no statements of compliance in regards to NEMA, IP, UL, CSA, or other relevant standards after a seismic event. For compliance to other relevant standards, please contact the manufacturer.

6. This certificate applies to units manufactured at:
   1400 73rd Ave NE, OF 143, Minneapolis, MN 55432

7. This certification follows the VMC Group's ISO-17065 Scheme.

John P. Giuliano, PE
President, VMC Group

IAS ACCREDITED Product Certification Agency

VMA-51071-01C (Revision 11)
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Expiration Date: Wednesday, June 30, 2027

IBC CERTIFIED VMC GROUP

2025 EPA Tier 3 Exhaust Emission Compliance Statement
C35 D6
Stationary Emergency
60 Hz Diesel Generator Set

Compliance Information:

The engine used in this generator set complies with Tier 3 emissions limit of U.S. EPA New Source Performance Standards for stationary emergency engines under the provisions of 40 CFR 60 Subpart IIII.

Engine Manufacturer:	Cummins Inc.
EPA Certificate Number:	SCEXL03.3BAA-031
Effective Date:	12/30/2024
Date Issued:	12/30/2024
EPA Engine Family (Cummins Emissions Family):	SCEXL03.3BAA

Engine Information:

Model:	4BT3.3-G5	Bore:	3.74 in. (95 mm)
Engine Nameplate HP:	69	Stroke:	4.53 in. (115 mm)
Type:	4 Cycle, In-line, 4 Cylinder Diesel	Displacement:	199 cu. in. (3.3 liters)
Aspiration:	Turbocharged	Compression ratio:	20.8:1
Emission Control Device:		Exhaust stack diameter:	3 in. (76 mm)

Diesel Fuel Emission Limits

D2 Cycle Exhaust Emissions

	Grams per BHP-hr			Grams per kWm-hr		
	NO_x + NMHC	CO	PM	NO_x + NMHC	CO	PM
EPA Emissions Limit	3.5	3.7	0.30	4.7	5.0	0.40

Test methods: EPA emissions recorded per 40 CFR Part 60, 89, 1039, 1065 and weighted at load points prescribed in the regulations for constant speed engines.

Diesel fuel specifications: Cetane number: 40-50, Reference: ASTM D975 No. 2-D, 7-15 ppm Sulphur

Reference conditions: Air Inlet Temperature: 25 °C (77 °F), Fuel Inlet Temperature: 40 °C (104 °F). Barometric Pressure: 100 kPa (29.53 in Hg), Humidity: 10.7 g/kg (75 grains H2O/lb) of dry air; required for NOx correction, Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to a maximum allowable limit..

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

Exhaust emission data sheet
C35 D6
60 Hz Diesel generator set
EPA emission

Engine information:

Model:	Cummins 4BT3.3-G5	Bore:	3.74 in. (95 mm)
Type:	4 cycle, in-line, 4 cylinder diesel	Stroke:	4.53 in. (115 mm)
Aspiration:	Turbocharged	Displacement:	199 cu. in. (3.3 liters)
Compression ratio:	20.8:1		
Emission control device:			

Performance data	1/4 Standby	1/2 Standby	3/4 Standby	Full Standby	Full Prime
BHP @ 1800 RPM (60 Hz)	14.7	29.3	44	58.6	[illegible]
Fuel consumption (gal/Hr)	1.77	2	2.53	3.44	[illegible]
Exhaust gas flow (CFM)	154.7	207.5	271.1	331	[illegible]
Exhaust gas temperature (°F)	404	592.3	775.5	917	[illegible]
Exhaust emission data					
HC (Total unburned hydrocarbons)	3.25	1.35	0.16	0.05	[illegible]
NOx (Oxides of nitrogen as NO2)	3.58	2.78	2.71	2.81	[illegible]
CO (Carbon monoxide)	2.81	1.42	0.84	0.54	[illegible]
PM (Particular Matter)	0.26	0.14	0.1	0.09	[illegible]
SO2 (Sulfur dioxide)	0.23	0.18	0.17	0.17	[illegible]
Smoke (Bosch)	0.18	0.34	0.48	0.73	[illegible]

All values are Grams per HP - Hour

Test conditions

Data is representative of steady-state engine speed (± 25 RPM) at designated genset loads. Pressures, temperatures, and emission rates were stabilized.

Fuel specification:	ASTM D975 No. 2-D diesel fuel with 0.03-0.05% sulfur content (by weight), and 40-48 cetane number.
Fuel temperature:	99 ± 9 °F (at fuel pump inlet)
Intake air temperature:	77 ± 9 °F
Barometric pressure:	29.6 ± 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H2O/lb dry air
Reference standard:	ISO 8178

The NOx, HC, CO and PM emission data tabulated here are representative of test data taken from a single engine under the test conditions shown above. Data for the other components are estimated. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may results in elevated emission levels.

Prototype Test Support (PTS)
60 Hz test summary

Generator set models

C25 D6 C40 D6
C30 D6 C35 D6

Representative prototype

Model: C40 D6
Alternator: CA125-G14
Engine: 4BT3.3-G5

The following summarizes prototype testing conducted on the designated representative prototype of the specified models. This testing is conducted to verify the complete generator set electrical and mechanical design integrity. Prototype testing is conducted only on generator sets not sold as new equipment.

Maximum surge power: 40.34 kW

The generator set was evaluated to determine the stated maximum surge power.

Maximum motor starting: 80 kVA

The generator set was tested to simulate motor starting by applying the specified kVA load at low lagging power factor (0.4 or lower). With this load applied, the generator set recovered to a minimum of 90% rated voltage.

Alternator temperature rise:

The highest rated temperature rise (120 °C) test results are reported as follows to verify that worst case temperature rises do not exceed allowable NEMA MG1 limits for class H insulation. Tests were conducted per IEEE 115, rise by resistance and embedded detector, with the rated voltages. Only the highest temperatures are reported.

Location	Maximum rise (ºC)
Alternator stator	63.5
Alternator rotor	106
Exciter stator	16.6
Exciter rotor	52.5

Torsional analysis and testing:

The generator set was tested to verify that the design is not subjected to harmful torsional stresses. A spectrum analysis of the transducer output was conducted over the speed range of 1650 to 1950 RPM.

Cooling system: 50 °C ambient
0.5 in. H_2O restriction

The cooling system was tested to determine ambient temperature and static restriction capabilities. The test was performed at full rated load in elevated ambient temperature under static restriction conditions.

Durability:

The C40 D6 generator set was subjected to a minimum 1000 hour endurance test operating at variable load up to the Standby rating based upon MIL-STD-705 to verify structural soundness and durability of the design.

Electrical and mechanical strength:

The generator set was tested to several single phase and three phase faults to verify that the generator can safely withstand the forces associated with short circuit conditions. The generator set was capable of producing full rated output at the conclusion of the testing.

Steady state performance:

The generator set was tested to verify steady state operating performance was within the specified maximum limits.

Voltage regulation:	± 1%
Random voltage variation:	± 1%
Frequency regulation:	± 0.5%
Random frequency variation:	± 0.5%

Transient performance:

The generator set was tested to verify single step loading capability as required by NFPA 110 and verify acceptable voltage and frequency response on load addition or rejection. The following results were recorded at 1.0 power factor:

Full load acceptance:

Voltage dip:	15.05%
Recovery time:	4.45 seconds
Frequency dip:	5.65%
Recovery time:	2.05 seconds

Full load rejection:

Voltage rise:	10.55%
Recovery time:	2.1 seconds
Frequency rise:	5.65%
Recovery time:	1.8 seconds

Harmonic analysis:

(per MIL-STD-705B, method 601.4)

	Line to Line		Line to Neutral	
Harmonic	No load	Full load	No load	Full load
3	0.4	3.32	1.2	3.4
5	1.1	1.09	1.5	1.1
7	1.0	0.49	1.7	0.6
9	0.0	0.7	0.3	0.8
11	0.48	0.41	0.7	0.4
13	0.38	0.24	0.5	0.1
15	0.0	0.0	0.1	0.1

Alternator data sheet

Frame size: CA115-V14

Characteristics

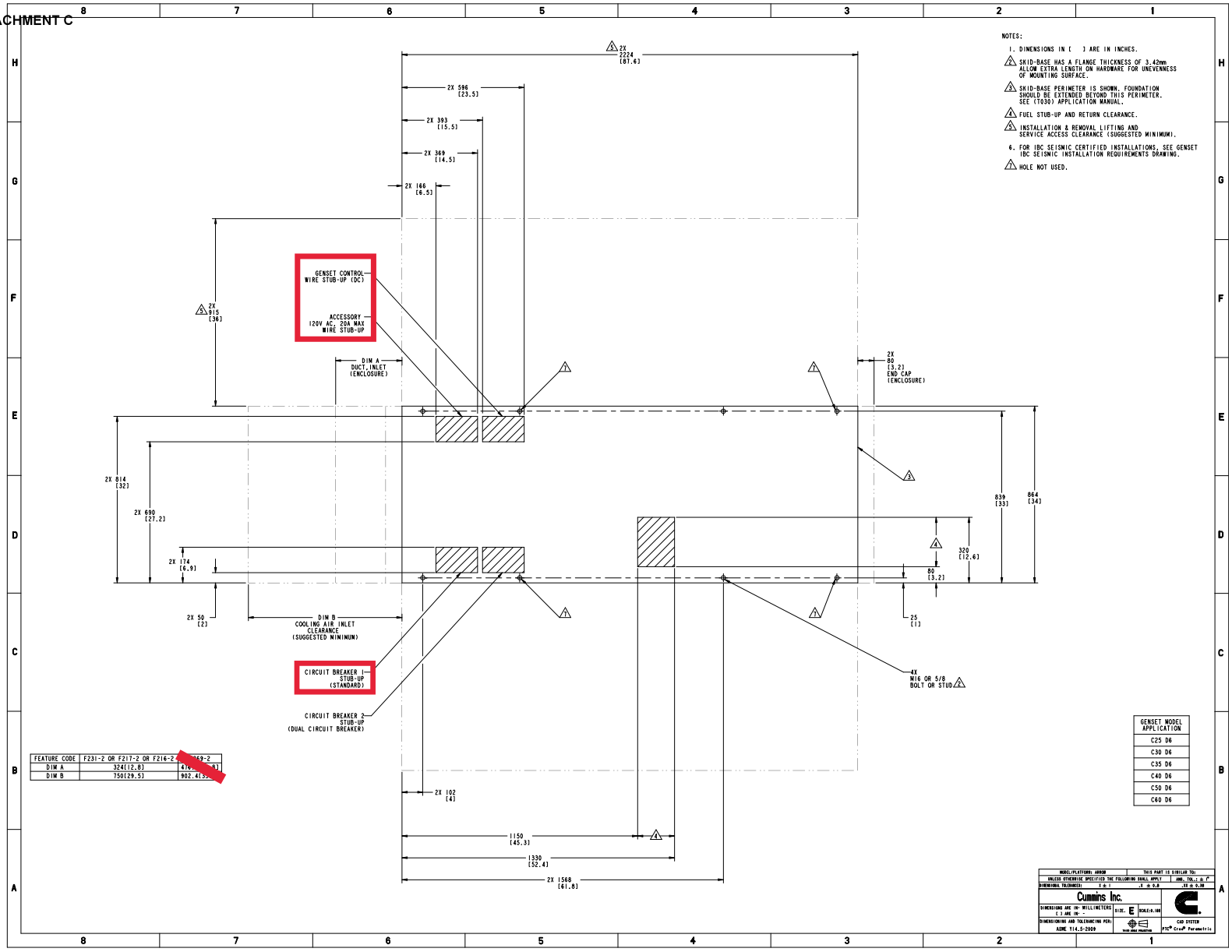
No of bearings:		1	
Weights:	**Stator assembly**:	289.5 lb	131.3 kg
	Rotor assembly:	147.8 lb	67 kg
	Complete assembly:	437 lb	198 kg
Maximum speed:		2250 rpm	
Insulation system:	Class H throughout		

		60 Hz (winding no)				
		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Excitation current:	Full load	2.12	1.89	2.10	1.47	2.12
Excitation current:	No load	0.47	0.45	0.57	0.69	0.47
3 Ø Ratings (0.8 power factor)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on specific temperature rise at 40 °C ambient temperature)						
120 °C Rise peak Standby ratings	kW	40	40	40		40
	kVA	50	50	50		50
105 °C Rise peak Standby ratings	kW	36.6	36.60	36.60		36.6
	kVA	45.75	45.75	45.75		45.75
1 Ø Ratings (1.0 power factor)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on specific temperature rise at 40 °C ambient temperature)						
120 °C Rise peak Standby ratings	kW				36	
	kVA				36	
105 °C Rise peak Standby ratings	kW				33	
	kVA				33	
Reactances (per unit ± 30%)		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
(Based on full load at 105 °C rise rating)						
Synchronous		2.02	2.06	2.06	1.22	2.02
Transient		0.12	0.12	0.12	0.10	0.12
Subtransient		0.08	0.08	0.08	0.07	0.08
Negative sequence		0.16	0.16	0.16	0.16	0.16
Zero sequence		0.08	0.10	0.09	0.08	0.08
Motor starting		208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Maximum kVA (90% sustained voltage)						
(At 20°C nominal generator & ambient temperature)						
	(EBS)	150	150	150	112	150
	(Shunt)	95	95	95	68	95

Alternator data sheet

Frame size: CA115-V14

Time constants (sec)	208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Transient	0.026	0.026	0.026	0.026	0.026
Subtransient	0.006	0.006	0.006	0.006	0.006
Open circuit	0.62	0.62	0.62	0.52	0.62
DC	0.006	0.005	0.005	0.006	0.006
Windings (@ 20° C)	208 (311)	600 (17)	480 (41)	240 (06)	240 (311)
Stator resistance (Ohms per phase)	0.238	0.350	0.518	0.048	0.238
Rotor resistance (Ohms)	0.944	0.944	0.944	0.944	0.944
Number of leads	12	12	12	4	12

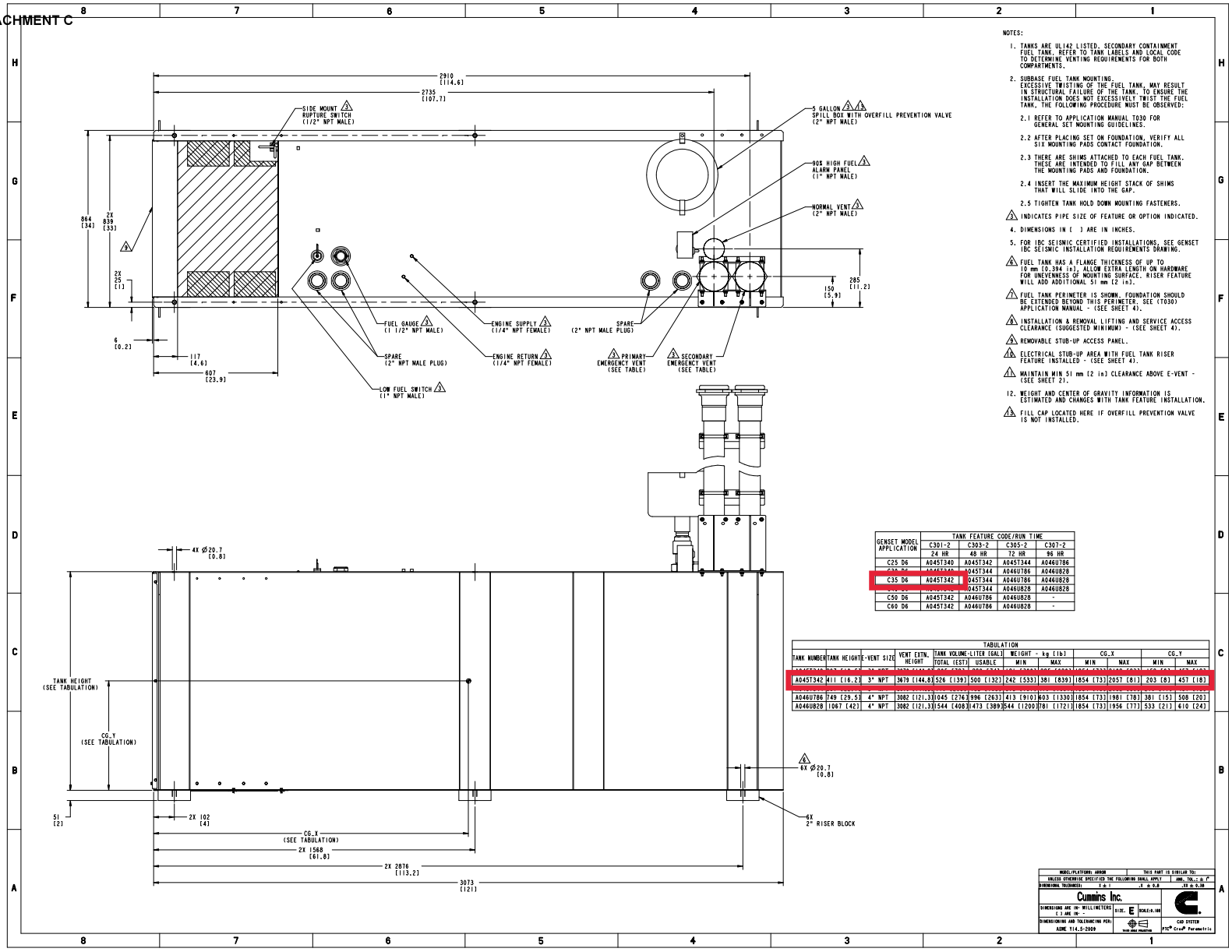


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Part Number: **A047E122** Part Revision: **D**
Part Name: **OUTLINE,GENSET**
Drawing Category: **Detail** State: **Released**



NOTES:

1. TANKS ARE UL142 LISTED. SECONDARY CONTAINMENT FUEL TANK. REFER TO TANK LABELS AND LOCAL CODE TO DETERMINE VENTING REQUIREMENTS FOR BOTH COMPARTMENTS.
2. SUBBASE FUEL TANK MOUNTING. EXCESSIVE TWISTING OF THE FUEL TANK, MAY RESULT IN STRUCTURAL FAILURE OF THE TANK. TO ENSURE THE INSTALLATION DOES NOT EXCESSIVELY TWIST THE FUEL TANK, THE FOLLOWING PROCEDURE MUST BE OBSERVED:
   - 2.1 REFER TO APPLICATION MANUAL T030 FOR GENERAL SET MOUNTING GUIDELINES.
   - 2.2 AFTER PLACING SET ON FOUNDATION, VERIFY ALL SIX MOUNTING PADS CONTACT FOUNDATION.
   - 2.3 THERE ARE SHIMS ATTACHED TO EACH FUEL TANK. THESE ARE INTENDED TO FILL ANY GAP BETWEEN THE MOUNTING PADS AND FOUNDATION.
   - 2.4 INSERT THE MAXIMUM HEIGHT STACK OF SHIMS THAT WILL SLIDE INTO THE GAP.
   - 2.5 TIGHTEN TANK HOLD DOWN MOUNTING FASTENERS.
3. INDICATES PIPE SIZE OF FEATURE OR OPTION INDICATED.
4. DIMENSIONS IN ( ) ARE IN INCHES.
5. FOR IBC SEISMIC CERTIFIED INSTALLATIONS, SEE GENSET IBC SEISMIC INSTALLATION REQUIREMENTS DRAWING.
6. FUEL TANK HAS A FLANGE THICKNESS OF UP TO 10 mm (0.394 in). ALLOW EXTRA LENGTH ON HARDWARE FOR UNEVENNESS OF MOUNTING SURFACE. RISER FEATURE WILL ADD ADDITIONAL 51 mm (2 in).
7. FUEL TANK PERIMETER IS SHOWN. FOUNDATION SHOULD BE EXTENDED BEYOND THIS PERIMETER. SEE (T030) APPLICATION MANUAL - (SEE SHEET 4).
8. INSTALLATION & REMOVAL LIFTING AND SERVICE ACCESS CLEARANCE (SUGGESTED MINIMUM) - (SEE SHEET 4).
9. REMOVABLE STUB-UP ACCESS PANEL.
10. ELECTRICAL STUB-UP AREA WITH FUEL TANK RISER FEATURE INSTALLED - (SEE SHEET 4).
11. MAINTAIN MIN 51 mm (2 in) CLEARANCE ABOVE E-VENT - (SEE SHEET 2).
12. WEIGHT AND CENTER OF GRAVITY INFORMATION IS ESTIMATED AND CHANGES WITH TANK FEATURE INSTALLATION.
13. FILL CAP LOCATED HERE IF OVERFILL PREVENTION VALVE IS NOT INSTALLED.

GENSET MODEL APPLICATION	TANK FEATURE CODE/RUN TIME			
	C301-2	C303-2	C305-2	C307-2
	24 HR	48 HR	72 HR	96 HR
C25 D6	A045T340	A045T342	A045T344	A046U786
C35 D6	A045T342	A045T344	A046U786	A046U828
C50 D6	A045T342	A046U786	A046U828	-
C60 D6	A045T342	A046U786	A046U828	-

TABULATION

TANK NUMBER	TANK HEIGHT	E-VENT SIZE	VENT EXTN. HEIGHT	TANK VOLUME-LITER (GAL)		WEIGHT - kg (lb)		CG_X		CG_Y	
				TOTAL (EST)	USABLE	MIN	MAX	MIN	MAX	MIN	MAX
A045T342	411 [16.2]	3" NPT	3670 [144.8]	526 [139]	500 [132]	242 [533]	381 [839]	1854 [73]	2057 [81]	203 [8]	457 [18]
A046U786	749 [29.5]	4" NPT	3082 [121.3]	1045 [276]	996 [263]	413 [910]	603 [1330]	1854 [73]	1981 [78]	381 [15]	508 [20]
A046U828	1067 [42]	4" NPT	3082 [121.3]	1544 [408]	1473 [389]	544 [1200]	781 [1721]	1854 [73]	1956 [77]	533 [21]	610 [24]

MODEL/PLATFORM: ARROW		THIS PART IS SIMILAR TO:
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY:		ANY. TOL. ± 0.1"
DIMENSIONAL TOLERANCES:	X ± 1	.X ± 0.5 .XX ± 0.30
Cummins Inc.		
DIMENSIONS ARE IN: MILLIMETERS ( ) ARE IN:	SIZE E	SCALE:0.100
DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009		CAD SYSTEM PTC Creo Parametric

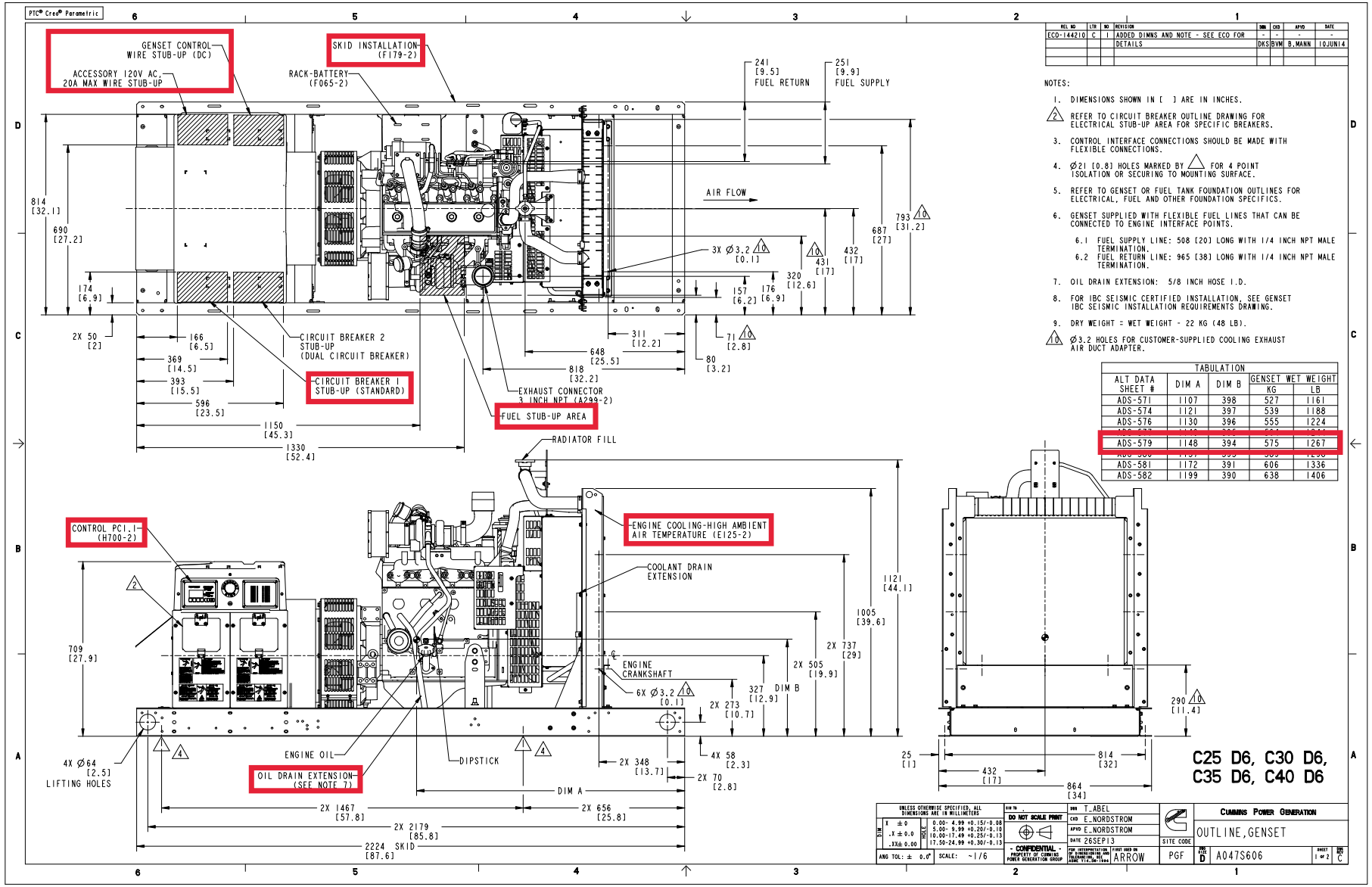
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Part Number: **A047D048** Part Revision: **C**
Part Name: **OUTLINE,TANK**
Drawing Category: **Detail** State: **Released**

PW1791-26 ATTACHMENT C



REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-144210	C	1	ADDED DIMNS AND NOTE - SEE ECO FOR DETAILS	- DKS	- BVM	- B.MANN	- 10JUN14

NOTES:

1. DIMENSIONS SHOWN IN [ ] ARE IN INCHES.
2. REFER TO CIRCUIT BREAKER OUTLINE DRAWING FOR ELECTRICAL STUB-UP AREA FOR SPECIFIC BREAKERS.
3. CONTROL INTERFACE CONNECTIONS SHOULD BE MADE WITH FLEXIBLE CONNECTIONS.
4. Ø21 [0.8] HOLES MARKED BY △ FOR 4 POINT ISOLATION OR SECURING TO MOUNTING SURFACE.
5. REFER TO GENSET OR FUEL TANK FOUNDATION OUTLINES FOR ELECTRICAL, FUEL AND OTHER FOUNDATION SPECIFICS.
6. GENSET SUPPLIED WITH FLEXIBLE FUEL LINES THAT CAN BE CONNECTED TO ENGINE INTERFACE POINTS.
   - 6.1 FUEL SUPPLY LINE: 508 [20] LONG WITH 1/4 INCH NPT MALE TERMINATION.
   - 6.2 FUEL RETURN LINE: 965 [38] LONG WITH 1/4 INCH NPT MALE TERMINATION.
7. OIL DRAIN EXTENSION: 5/8 INCH HOSE I.D.
8. FOR IBC SEISMIC CERTIFIED INSTALLATION, SEE GENSET IBC SEISMIC INSTALLATION REQUIREMENTS DRAWING.
9. DRY WEIGHT = WET WEIGHT - 22 KG (48 LB).

10 Ø3.2 HOLES FOR CUSTOMER-SUPPLIED COOLING EXHAUST AIR DUCT ADAPTER.

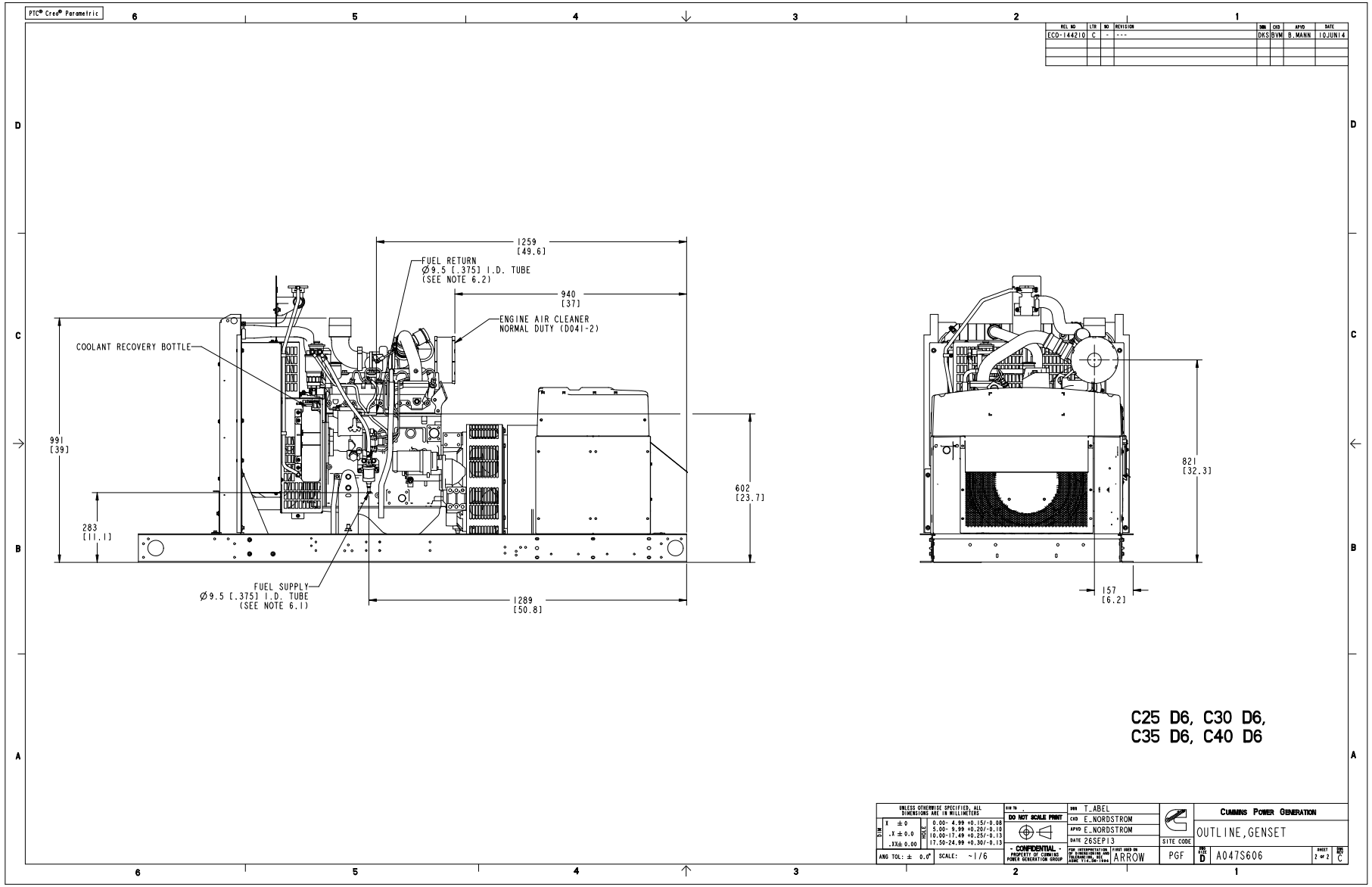
TABULATION

ALT DATA SHEET #	DIM A	DIM B	GENSET WET WEIGHT KG	GENSET WET WEIGHT LB
ADS-571	1107	398	527	1161
ADS-574	1121	397	539	1188
ADS-576	1130	396	555	1224
ADS-579	1148	394	575	1267
ADS-581	1172	391	606	1336
ADS-582	1199	390	638	1406

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS
DIM: # ±0, .X ±0.0, .XX± 0.00
HOLE: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13
ANG TOL: ± 0.0°
SCALE: ~1/6
DO NOT SCALE PRINT
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FOR INTERPRETATION OF DIMENSIONS AND TOLERANCING, REFER TO ASME Y14.5M-1994
FIRST USED ON: ARROW
DRN T_ABEL
CKD E_NORDSTROM
APVD E_NORDSTROM
DATE 26SEP13
SITE CODE: PGF
CUMMINS POWER GENERATION
OUTLINE,GENSET
SIZE D
A047S606
SHEET 1 of 2
REV C

Drawing Name: A047S607 Revision: C
Part Name: A047S606 Revision: C
Sheet 1 of 3

PW1791-26 ATTACHMENT C

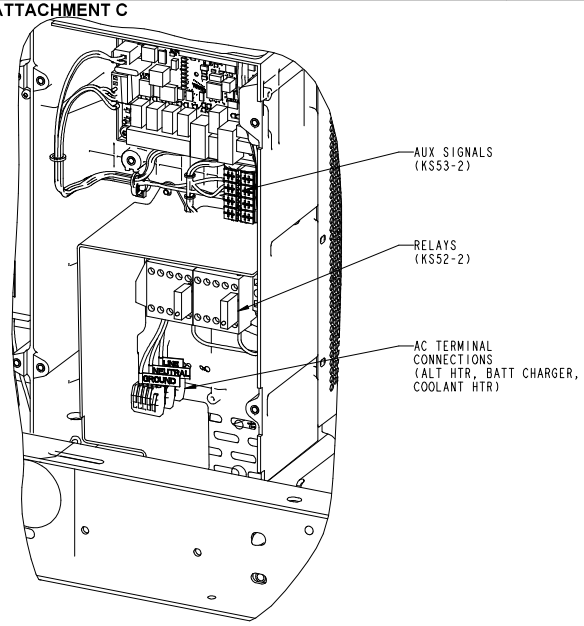


Drawing Name: A047S607 Revision: C
Part Name: A047S606 Revision: C
Sheet 2 of 3

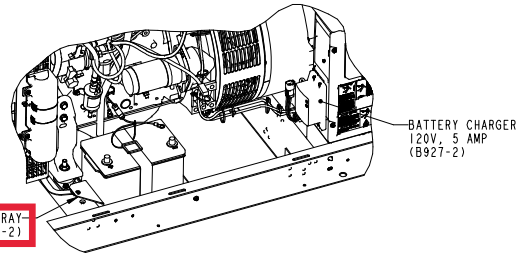
PTC® Creo® Parametric

PW1791-26 ATTACHMENT C

REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-170663	E	1	UPDATE VIEWS TO SHOW DUCT ADAPTER	NAS	JBP	J.BUTLER	10JUL17
		2	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		3	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		4	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		5	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		6	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		7	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		8	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17
		9	SEE SHEET 2	NAS	JBP	J.BUTLER	10JUL17



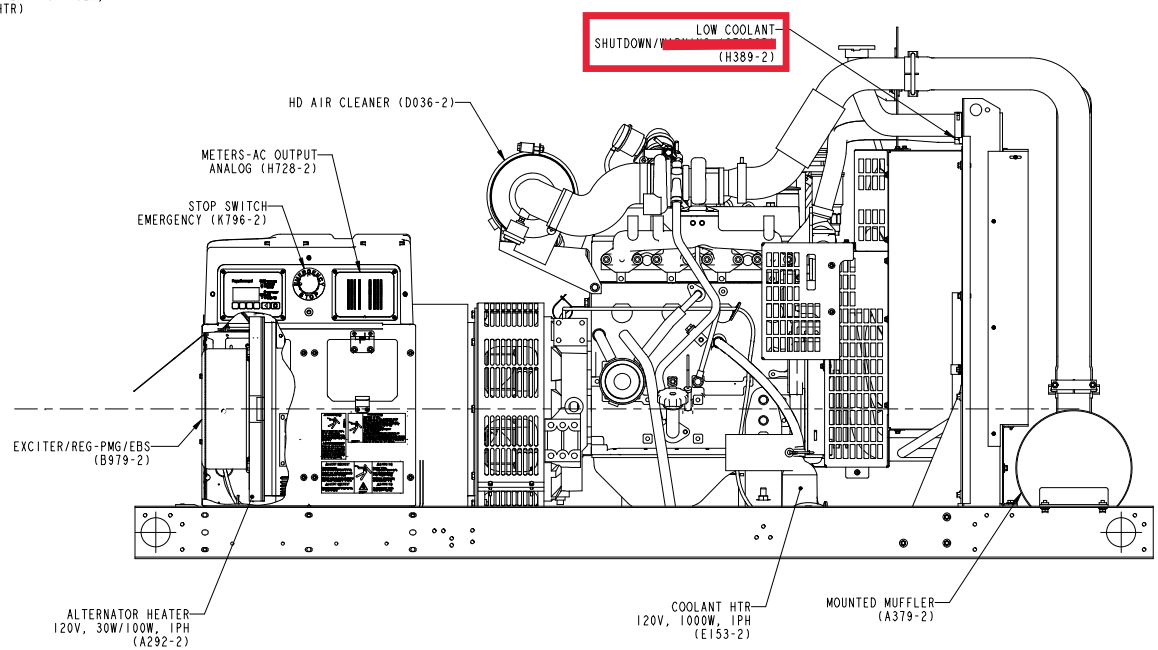
SCALE 1/2

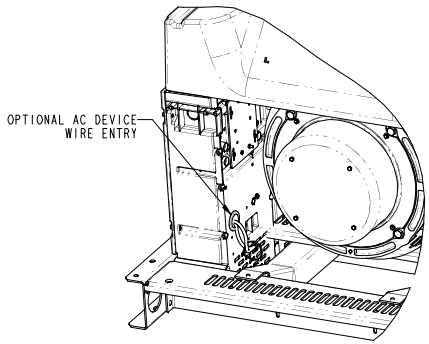


SCALE 3/20

NOTE:

1. REFER TO SUBBASE FUEL TANK OPTIONS OUTLINE DRAWING FOR FUEL TANK SPECIFIC OPTIONS.





C25 D6, C30 D6,
C35 D6, C40 D6,
C50 D6, C60 D6

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS
DIM: X ±1, .X ±0.8, .XX±0.38
ANGLE: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13
ANG TOL: ± 1.0° SCALE: 1/5

DO NOT SCALE PRINT

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DWN T_ABEL
CKD E_NORDSTROM
APVD E_NORDSTROM
DATE 26SEP13

FIRST USED ON ARROW

CUMMINS POWER GENERATION

OUTLINE, GENSET OPTIONS

SITE CODE PGF

SIZE D A047U816 SHEET 1 of 2 REV E

Drawing Name: A047U817 Revision: E
Part Name: A047U816 Revision: E
ECO-170663 Sheet 1 of 3

PTC® Creo® Parametric

PW1791-26 ATTACHMENT C

REL NO	LTR	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178681	E	1	ZONE A4; F231-2 AND F216-2___	--	--	--	--
			CONFIGURATIONS WAS F231-2___	--	--	--	--
			CONFIGURATION	PPP	KAM	M.WINGFIELD	09JUL18
		2	UPDATE VIEWS PICTORIALLY	PPP	KAM	M.WINGFIELD	09JUL18

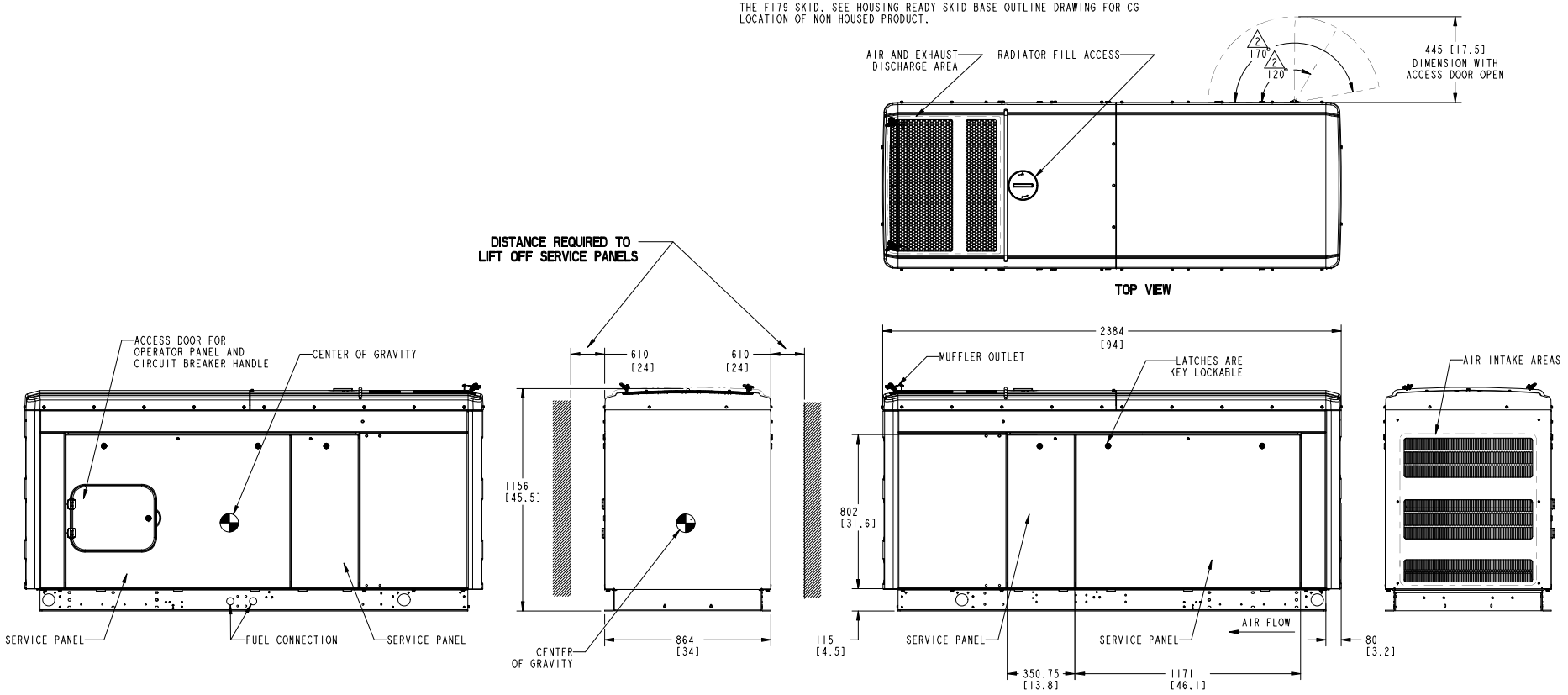
NOTES:

1. DIM [] IN INCHES

2. 120° AND 170° ARE DETENTED OPEN ANGLE FOR HINGE.

3. WHEN THE HOUSING INSTALLED ON AN OPEN GENERATOR SET, THE TOTAL WEIGHT WILL INCREASE BY 98 KG (216 LBS). THIS INCLUDES THE MUFFLER.

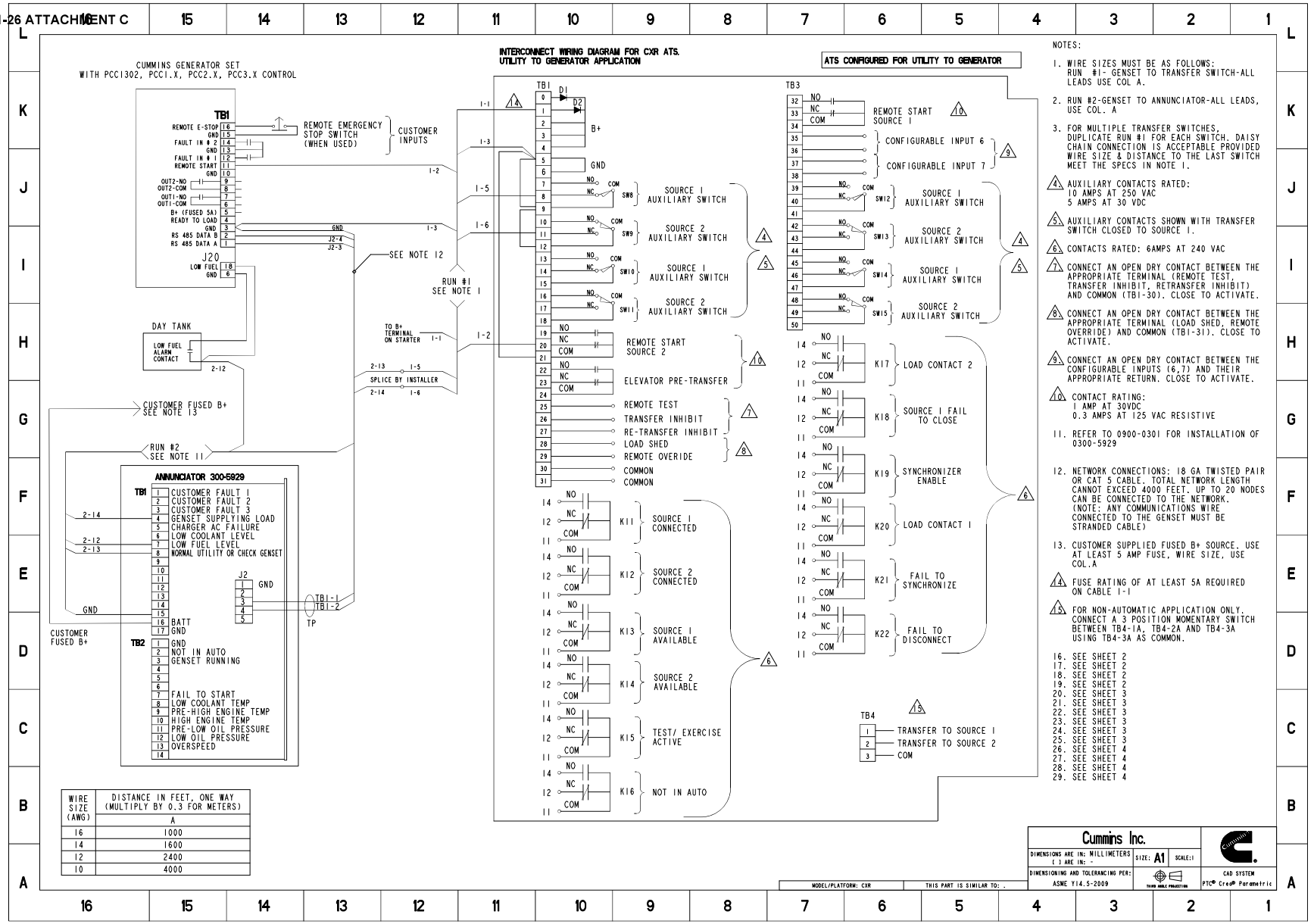
4. THE CENTER OF GRAVITY(CG) OF THE GENERATOR SET WHEN EQUIPPED WITH THIS HOUSING SHIFTS APPROXIMATELY 8MM (0.31 INCH) TOWARDS THE AIR DISCHARGE END OF THE HOUSING AND 38MM (1.5 INCH) HIGHER FROM THE GROUND. COMPARED TO THE EQUIVALENT NON-HOUSED PRODUCT WITH THE F179 SKID. SEE HOUSING READY SKID BASE OUTLINE DRAWING FOR CG LOCATION OF NON HOUSED PRODUCT.



F231-2 AND F216-2 ENCLOSURE CONFIGURATIONS

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		DIM TO NONE	DWN S_GAMBHIRE		CUMMINS POWER GENERATION
DIM: X ±1; .X ±0.8; .XX± 0.38 — DECIMALS: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13		DO NOT SCALE PRINT	CKD T_RADKE		OUTLINE,ENCLOSURE
ANG TOL: ± 0.5°	SCALE: 1/10	CONFIDENTIAL - PROPERTY OF CUMMINS POWER GENERATION GROUP	APVD J_MATTHEWS	SITE CODE	
			DATE 17JAN13	PGF	SIZE D — A043J729 — SHEET 1 of 2 — REV E
			FOR INTERPRETATION OF DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994	FIRST USED ON ARROW	

Drawing Name: A043J730 Revision: E
Part Name: A043J729 Revision: E
ECO-178681 Sheet 1 of 3



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Part Number: **A062F795** Part Revision: **D**
Part Name: **DIAGRAM,INTERCONNECT WIRING**
Drawing Category: **Detail** State: **Released**

SUBMITTAL PACKAGE



Marion County

Prepared for:

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Marion County Public Works
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PLEASE COMPLETE THIS SECTION OR PROVIDE SIGNOFF TO PROCEED

☐ **Revise with corrections provided** **Date:** 6/23/2025

☑ **Approved and released for production**

By (name and company): Brian Nicholas, Marion County Public Works Department

Requested delivery date: December 15, 2025

Requested delivery address: 5155 Silverton Road NE, Salem, OR 97305

Contact person and phone # for deliveries: Michael Pierce, 408.857.2040

Salesforce O# n/a

BMS #

Customer PO#

Date 6/16/25 Rev _1

Serving Cummins Customers

Cummins power solutions are supported by the largest and best-trained worldwide-certified sales/distributor network in the industry. This network will help you select and install the critical power solution to meet the requirements of your specific application. This same network provides experts with advanced technology to make your life easier while providing a seamless support experience.

IMPORTANT: *The critical power solution information and specifications included in this pdf can be used by the site contractor(s) and/or engineer(s) to assist with planning for and accomplishing the overall power solution installation. Please forward this document to the appropriate personnel, as necessary.*

It is the obligation of the electrical contractor and reviewing engineer to determine that the item quantities and accuracy of this submittal is correct as required for the job. Any inaccuracies or deviations must be addressed with Cummins Inc. before release to manufacturing. Any releases of material to manufacturing by the above parties constitute an acceptance of the accuracy of the submittal. Any changes after release will be viewed as a change order, subject to pricing changes. Please take the time to review this package for accuracy to prevent any after-shipment problems that could cause delay in energization.

Cummins certifies that these drawings, material lists, specification and datasheets have been checked prior to submittal and they:

- *accurately depict the proposed equipment*
- *provide current information to the date of the submittal and*
- *present true and accurate equipment information.*

This Approval Drawing Package is submitted as our interpretation of the project requirements and/or the specifications for this job. Please note that issuance of these submittals shall not be deemed or interpreted as performance nor acceptance of your purchase order terms and conditions.

For questions or comments regarding this submittal, please contact the Cummins Project Manager listed on the title page.

Project: Marion County - ATS Bulk Order - Sourcewell
Quotation: Q-386305-06132025–14:02

13 June 2025

Bill of Material

Feature Code	Description	Qty
OTECB	**OTECB, OTEC Transfer Switch-Electronic Control: 150A/225A/260A**	~~8~~ 7
OTECB_OTEC150	OTEC150, Transfer Switch, PowerCommand, 150 Amp	
OTECB_M086-7	Interface - Communication Network, MODBUS TCP Module	
OTECB_A046-7	Listing - UL 1008/CSA Certification	
OTECB_A080-7	IBC Seismic Certification	
OTECB_A035-7	Application - Utility to Genset	
OTECB_B001-7	Cabinet - Type 1	
OTECB_A028-7	Poles - 3 (Solid Neutral)	
OTECB_A044-7	Frequency - 60 Hz	
OTECB_A041-7	System - Single Phase, 2 or 3 Wire	
OTECB_R023-7	Voltage - 240 Volts AC	
OTECB_M033-7	Genset Starting Battery - 12V DC	
OTECB_C110-7	PC40 Control	
OTECB_G004-7	Transfer Switch Warranty - 2 Year Comprehensive	

Note: due to elimination of the Mad Creek site, the quantity of ATS released for production is reduced by one (1), from the original Purchase Order quantity of eight (8) to the new quantity of seven (7) ATS.

POWERCOMMAND®
OTEC TRANSFER SWITCH

POWERCOMMAND® 40-11 CONTROL | OPEN TRANSITION | 40 A-1200 A

AUTOMATIC TRANSFER SWITCH

DESCRIPTION

The OTEC series transfer switch provides the basic features typically required for primary source and generator set monitoring, generator set starting and load transfer functions for emergency standby power applications. They are suitable for use in emergency, legally required, and optional standby circuits in commercial and light industrial applications. The OTEC transfer switch features the new PowerCommand® 40-11 control with a comprehensive feature list to suit a wide variety of ATS applications.

FEATURES

PowerCommand® 40-11 control – A fully featured microprocessor-based control with LCD digital display and tactile-feel soft-switches for easy operation and screen navigation. Control highlights include front panel PC software configuration, three phase sensing on both sources, sync check, phase rotation and imbalance sensing, and event logging. Additional optional features include load shed from standby source, Modbus RTU and TCP network communication, and configurable output contact modules. Completely network compatible with the new Cummins transfer switch remote annunciator. Please see the S-6560 PowerCommand® 40-11 control specification sheet for the full description, benefits, and features.

Programmed transition – Open transition timing can be adjusted to completely disconnect the load from both sources for a programmed time period, as recommended by NEMA MG-1 for transfer of inductive loads.



Advanced transfer switch mechanism – Unique bi-directional linear actuator provides virtually frictionless constant force, straight-line transfer switch action during automatic operation.

Positive interlocking – Mechanical and electrical interlocking prevent source-to-source connection through the power or control wiring.

Main contacts – Heavy-duty silver alloy contacts used with multi-leaf arc chutes are rated for motor loads or total system load transfer. They require no routine contact maintenance. Continuous load current not to exceed 100% of switch rating and tungsten loads not to exceed 30% of switch rating.

Ease of service and access – Single-plug harness connection and compatible terminal markings simplify servicing. Access space is ample. Door-mounted controls are field-programmable; no special tools are required.

Complete product line – Cummins is a single source supplier with a wide range of equipment, accessories, and services to suit virtually any backup power application.

Warranty and service - Products are backed by a comprehensive warranty and a worldwide network of distributors with factory-trained service technicians.

TRANSFER SWITCH MECHANISM

- Transfer switch mechanism is electrically operated and mechanically held in the Source 1 and Source 2 positions. The transfer switch incorporates electrical and mechanical interlocks to prevent inadvertent interconnection of the sources.
- Independent break-before-make action is used for both 3-pole and 4-pole simultaneously switched neutral. This design allows use of sync check operation when required, or control of the operating speed of the transfer switch for proper transfer of motor and rectifier-based loads (programmed transition feature).
- True 4-pole switching allows for proper ground (earth) fault sensing and consistent, reliable operation for the life of the transfer switch. The neutral poles of the transfer switch have the same ratings as the phase poles and are operated by a common crossbar mechanism, eliminating the possibility of incorrect neutral operation at any point in the operating cycle, or due to failure of a neutral operator.
- Electrical interlocks prevent simultaneous closing signals to normal and emergency contacts and interconnection of normal and emergency sources through the control wiring.
- High pressure silver alloy contacts resist burning and pitting. Separate arcing surfaces further protect the main contacts. Contact wear is reduced by multiple leaf arc chutes that cool and quench the arcs. Barriers



separate the phases to prevent interphase flashover. A transparent protective cover allows visual inspection while inhibiting inadvertent contact with energized components.

- Switch mechanism, including contact assemblies, is UL 1008 certified to verify suitability for applications requiring high endurance switching capability for the life of the transfer switch. Withstand and closing ratings are validated using the same set of contacts, further demonstrating the robust nature of the design.

SPECIFICATIONS	
Voltage rating	Up to 600 V AC, 50 or 60 Hz.
Arc interruption	Multiple leaf arc chutes provide dependable arc interruption.
Neutral bar	A full current-rated neutral bar with lugs is standard on enclosed 3-pole transfer switches.
Auxiliary contacts	Two isolated contacts (one for each source) indicating switch position are provided for customer use. Contacts are normally open, and close to indicate connection to the source. Wired to terminal block for easy access. Rated at 10 A Continuous and 250 V AC maximum.
Operating temperature	-22 ˚F (-30 ˚C) to 140 ˚F (60 ˚C)
Storage temperature	-40 ˚F (-40 ˚C) to 140 ˚F (60 ˚C)
Humidity	Up to 95 % relative, non-condensing
Altitude	Up to 10,000 ft (3,000 m) without derating
Surge withstand ratings	Voltage surge performance and testing in compliance with the requirements of IEEE C62.41 (Category B3) and IEEE C62.45.
Total transfer time (source-to-source)	Will not exceed 6 cycles at 60 Hz with normal voltage applied to the actuator and without programmed transition enabled.
Manual operation*	Transfer switch mechanisms are equipped with means to manually transfer. All sources must be de-energized before manual operation is attempted.

**See Operator Manual for further details.*

TRANSITION MODES

Open delayed transition – In this transition mode the time required for the transfer switch to transfer between sources is adjustable so that the load- generated voltages decay to a safe level before connecting to an energized source. Recommended by NEMA MG-1 to prevent nuisance tripping breakers and load damage. Adjustable 0.5 secs - 10 minutes, and default 0.5 seconds.

Open in-phase translation – Initiates open transition transfer when in-phase monitor senses both sources are in phase (voltage, phase, and frequency). Operates in a break-before-make sequence. Includes ability to enable programmed transition as a backup. The module waits indefinitely for synchronization unless the 'Return to programmed transition' function is active in which case after 2 minutes it performs a programmed delayed transfer.

UL 1008 WITHSTAND AND CLOSING RATINGS (WCR)

The transfer switches listed below must be protected by circuit breakers or fuses. Referenced drawings include detailed listings of specific breakers or fuse types that must be used with the respective transfer switches. Consult with your distributor/dealer to obtain the necessary drawings. Withstand and Closing Ratings (WCR) are stated in symmetrical RMS amperes.

BREAKER PROTECTION

Frame	Amperage rating (A)	MOLDED CASE CIRCUIT BREAKER (MCCB) PROTECTION				SPECIAL CIRCUIT BREAKER PROTECTION		
		With specific manufacturers MCCB (kA at 480V)	With specific manufacturers MCCB (kA at 600V)	Max MCCB ratings (A)	Drawing reference	With specific Current limiting breakers (kA at 600V)	Max. Current limiting breakers CLB rating (A)	Drawing reference
A	40, 70, 125 (3-pole only)	14	14	225	A050J441	200	225	A048J566
	40, 70, 125 (4-pole only)	30	30	400	A048E949	200	400	A051D533
B	150, 225, 260	30	30	400	A048E949	200	400	A051D533
C	300, 400, 600	65	65	1200	A056M829	200	1200	A048J564
D	800, 1000	65	50	1400	A056M821	200	1400	A048J562
E	1200	85	65	1600	A056M825	200	1600	A048P186

FUSE PROTECTION

Frame	Amperage rating (A)	WCR with current limiting fuses (kA)	Fuse size and type	Drawing reference
A	40, 70, 125 (3-pole only)	200	200 A, Class: J, RK1, RK5	A050J441
	40, 70, 125 (4-pole only)	200	1200 A Class L or T, or 600A class J, RK1, RK5	A048E949
B	150, 225, 260	200	1200 A Class L or T, or 600A class J, RK1, RK5	A048E949
C	300, 400, 600	200	1200 A Class L or T, or 600A class J, RK1, RK5	A056M829
D	800, 1000	200	2000 A Class L or 1200 A Class T or 600 A Class J, RK1, RK5	A056M821
E	1200	200	2000 A Class L or 1200 A Class T or 600 A Class J, RK1, RK5	A056M825

All WCR values are at 600 V

TIME [illegible] RATINGS: 0.05S (3-CYCLES AT 60 HZ)

Frame	Amperage rating (A)	[illegible]CB (kA at Vmax and below)	Max. MCCB rating (A)	Drawing reference
C	300, 400, 600	25 at 60[illegible]	1200	A056M829
D	800, 1000	35 at 600 V	[illegible]	A056M821
E	1200	42 at 600 V	1600	A05[illegible]

TRANSFER SWITCH LUG CAPACITIES

Frame	Amperage rating (A)	Cables per phase	Certified Cable Size	Part Number
A	40, 70, 3-pole	1	#14 AWG - 2/0	0332-3084 **
			#12 AWG - 2/0	0332-3085 ***
	40, 4-pole	1	#14 AWG - 2/0	0332-3514-01
	70, 4-pole	1	#6 AWG - 300MCM	0332-3038
	125, 3-pole	1	#14 AWG - 2/0	0332-3084 **
			#12 AWG - 2/0	0332-3085 ***
	125, 4-pole	1	#6 AWG - 300MCM	0332-3038
B	150, 225	1	#6 AWG - 300MCM	0332-3038
	260	1	#6 AWG - 400MCM	0332-3039
C	300, 400	2*	3/0 - 600MCM & #4 AWG - 250MCM	0332-2704
	600	2	250 - 500MCM	0332-2660
D	800, 1000	4	250 - 500MCM	0332-2736
E	1200	4	500-750MCM ^	0332-2736 ****
			#2 AWG – 600MCM ^^	0332-1557 ****
			1/0 - 750MCM ^^^	0332-3036

All lugs 90°C rated and accept copper or aluminum wire unless indicated otherwise.
Refer to the latest NFPA 70 Article 310 - Conductors for general wiring for the ampacity calculations.
** One cable for each lug range listed*
*** Load*
**** Emergency and normal*
***** See A030H735 drawing for lugs specifications*
^ Compression lug adapter suitable for 500-750MCM (Optional feature N032-7)
^^ #2 AWG – 600MCM (Standard feature N045-7)
^^^ 1/0 - 750MCM (Optional feature N066-7)

ENCLOSURE

The transfer switch and control are wall-mounted in a key-locking enclosure. Wire bend space complies with NEC.

DIMENSIONS – TRANSFER SWITCH IN UL TYPE 1 ENCLOSURE

Frame	Amperage rating (A)	Height		Width		Depth		Weight	
		in	mm	in	mm	in	mm	lb	kg
A	40, 70, 125 3-pole	27	686	20.5	521	12	305	148	67
	40, 70, 125 4-pole	35.5	902	26	660	16	406	214	97
B	150, 225	35.5	902	26	660	16	406	214	97
	260	43.5	1105	28.5	724	16	406	238	108
C	300, 400, 600	54	1372	25.5	648	18	457	322	146
D	800, 1000	68	1727	30	762	19.5	495	448	203
E	1200	90	2286	39	991	27	698	862	391

DIMENSIONS – TRANSFER SWITCH IN UL TYPE 3R, 4, 4X, OR 12 ENCLOSURES										
Frame	Amperage rating (A)	Height		Width		Depth		Weight		Cabinet Type
		in	mm	in	mm	in	mm	lb	kg	
A	40, 70, 125 3-pole	34	864	26.5	673	12.5	318	220	100	3R, 4
		46	1168	32	813	16	406	307	139	4X
		34	864	26.5	673	12.5	318	201	91	12
	40, 70, 125 4-pole	42.5	1080	30.5	775	16	406	304	138	3R, 4
		46	1168	32	813	16	406	335	152	4X
		42.5	1080	30.5	775	16	406	287	130	12
B	150, 225	42.5	1080	30.5	775	16	406	304	138	3R, 4
		46	1168	32	813	16	406	335	152	4X
		42.5	1080	30.5	775	16	406	287	130	12
	260	46	1168	32	813	16	406	322	146	3R, 4
		46	1168	32	813	16	406	335	152	4X
		46	1168	32	813	16	406	304	138	12
C	300, 400, 600	59	1499	27.5	699	16.5	419	415	188	3R, 4
		73.5	1867	32.5	826	19.5	495	520	236	4X
		59	1499	27.5	699	16.5	419	397	180	12
D	800, 1000	73.5	1867	32.5	826	19.5	495	588	267	3R, 4
		73.5	1867	32.5	826	19.5	495	588	267	4X
		73.5	1867	32.5	826	19.5	495	556	252	12
E	1200	90	2286	39	991	27	698	891	404	3R, 4
		90	2286	39	991	27	698	891	404	4X
		90	2286	39	991	27	698	873	396	12

ENCLOSURE ACCESS FOR CABLE INSTALLATION AND MAINTENANCE

All frames allow for top, side, and bottom cable entry. NEC Requires Minimum 36" Front Access. Additional front clearance is needed to remove the mechanism. Refer to the outline drawing.

OTEC DRAWING PART NUMBERS				
Frame	Amperage rating (A)	Outline Drawing		
		Type 1, 3R, 12, 4, 4X (3 Pole)	Type 1, 3R, 12, 4, 4X (4 Pole)	Open Construction
A	40, 70, 125	A074K565	A074K632	A074K681
B	150, 225	A074K575	A074K587	
	260	A074K613	A074K634	
C	300, 400, 600	A074K635	A074K645	
D	800, 1000	A074K646	A074K658	
E	1200	A074K659		A074K695

WIRING DIAGRAM PART NUMBERS

Frame	Amperage rating (A)	Wiring Diagram				
		Utility to Genset (120 – 480 V)	Utility to Genset (600 V)	Interconnection	Utility to Genset, Open Construction (120 – 480 V)	Utility to Genset, Open Construction (600 V)
A	40, 70, 125 (3-pole)	A074P733	A074P730	A065H780	A074P731	A074P732
	40, 70, 125 (4-pole)					
B	150, 225					
	260					
C	300, 400, 600					
D	800, 1000	A074P729				
E	1200					

SUBMITTAL DETAIL

Model

- 40, 70, 125 A, (3- and 4-pole)
- 150, 225, 260 A
- 300, 400, 600 A
- 800, 1000 A
- 1200 A

Poles

- A028 Poles – 3 (solid neutral)
- A029 Poles – 4 (switched neutral)

Application

- A035 Utility-to-genset

Frequency

- A044 60 Hz
- A045 50 Hz

Phase

- A041 single phase, 2-wire or 3-wire
- A042 three phase, 3-wire or 4-wire

Voltage ratings

- R020 120V
- R038 190V
- R021 208V
- R022 220V
- R023 240V
- R024 380V
- R025 416V
- R035 440 V
- R026 480 V
- R027 600 V

Enclosure

- B001 Type 1: Indoor use, provides some protection against dirt (similar to IEC type IP30)
- B002 Type 3R: Intended for outdoor use, provides some protection from dirt, rain, and snow (similar to IEC type IP34)
- B003 Type 4: Indoor or outdoor use, provides some protection from wind-blown dust and water spray (similar to IEC type IP65)
- B004 open construction: no enclosure - includes automatic transfer switch and controls.
- B010 Type 12: Indoor use, some protection from dust (similar to IEC type IP61).
- B025 Type 4X: Stainless steel, indoor or outdoor use, provides some protection from corrosion (similar to IEC Type IP65).

Standards

- A046 UL 1008/CSA certification
- A080 IBC seismic certification

Control voltage

- M033 12V, Genset starting voltage.
- M034 24V, Genset starting voltage.

Control options

- M032 Elevator signal relay
- M081 MODBUS RS485 Communication module
- M079 integral control power supply provides DC voltage to control from source power.
- M086 Ethernet communication module
- L216 1X auxiliary relay I/O module
- L217 2X auxiliary relay I/O module

Auxiliary relays

- Relays are UL Listed, and factory installed. All relays provide (2) normally closed isolated contacts rated 10A @ 600 VAC. Relay terminals accept (1) 18 gauge to (2) 12-gauge wires per terminal.
- L101 24 VDC coil - installed, not wired (for customer use).
- L102 24 VDC coil - emergency position – relay energized when switch is in source 2 (emergency) position.
- L103 24 VDC coil - normal position - relay energized when switch is in source 1 (normal) position.
- L201 12 VDC coil installed, not wired (for customer use)
- L202 12 VDC coil - emergency position – relay energized when switch is in source 2 (emergency) position.
- L203 12 VDC coil - normal position - relay energized when switch is in source 1 (normal) position.

Optional Cable Lugs

- N032 Lug adapters, compression, ½ stab (1200A only)
- N045 Cable lugs, mechanical, 600 MCM, 4 per pole (1200A only)
- N066 Cable lugs, mechanical, 750 MCM, 4 per pole (1200A only)

Miscellaneous

- C027 Cover - guard
- M003 Terminal block - 30 points (not wired)

Optional features

- M080 Anti-condensation heater for outdoor enclosures
- L214 Load shed from standby source
- M085 Load power monitoring

Accessories

- AC-170 Accessories specification sheet
- A065L320 Control panel cover guard

Request for quotation (RFQ)

- Z555 Nonconfigurable spec [ETO]

Warranty

- G004 2-years, comprehensive
- G007 5-years, comprehensive
- G014 3-years, comprehensive
- G015 10-years, comprehensive

Shipping

- A051 Packing - export box (800 – 1000 A)

CODES AND STANDARDS

UL	All switches are UL 1008 Listed with UL 50E Type Rated cabinets and UL Listed CU-AL terminals.	**NEC®**	Suitable for use in emergency, legally required and Standby and Critical Operations Power Systems (COPS) applications per NEC 700, 701, 702 and 708.
NEMA	All switches comply with NEMA ICS 10.	**ISO®**	All switches are designed and manufactured in facilities certified to ISO 9001.
CSA®	All switches are certified to CSA C22.2 No. 178.1 switching of electrical energy in emergency or other systems, up to 600 VAC and 4 kA.	**IBC®**	All switches are certified to IBC 2018.
IEEE	All switches comply with IEEE 446 Recommended Practice for Emergency and Standby Power Systems.	**EMC**	Display controllers meet the following Electromagnetic Compatibility (EMC) standards: • EN 61000-6-2 Generic Immunity Standard for the Industrial Environment. • EN 61000-6-4 Generic Emission Standard for the Industrial Environment.
NFPA®	All switches comply with NFPA 70, 99 and 110 (Level 1).		

For more information, please contact your local Cummins distributor or visit cummins.com.

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S-6556 OTEC Spec Sheet NSE - PD00000752 - Rev. 02/25

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POWERCOMMAND® 40-11 TRANSFER SWITCH CONTROL

OTEC TRANSFER SWITCHES

DESCRIPTION

The PowerCommand® 40-11 Transfer Switch Control is a sophisticated microprocessor-based control with the basic features you need for primary source and generator set monitoring, generator set starting and load transfer functions for emergency standby power applications.

The control human machine interface (HMI) includes a LCD display with tactile-feel soft-switches for easy operation and screen navigation. All data on the control can be viewed by scrolling through screens with a display scroll button. The control displays the current active fault, fault occurrences and time ordered history of the 10 previous faults with respect to Real Time Clock Stamp and Engine Running Time.

FEATURES

Digital display – The PowerCommand® 40-11 offers a clear back-lit LCD 4-line text display, showing system status, contextual icons and warnings. The display is also equipped with 5 red and 4 green LEDs indicating operational status.

Modbus network communication – Modbus network communications capable. Optional Modbus RTU RS485 connection (1 serial port) and TCP Ethernet communication module (1 RJ45 port).



Diagnostics and reporting – Detailed event logging with enhanced fault codes, alert lists, power event history, and source statistics enhances diagnostic capability during service events and provides the ability to meet any reporting requirements.

PC & Front Panel Configurations – The modules can be easily configured using the PC software. Selected front panel editing is also available.

Ease of service and access – Built-in plug-and-play control with minimized point-to-point connections and compatible terminal markings simplify servicing.

Complete product line – Cummins is a single source supplier with full scope of power system solutions, integration, and service capability, from paralleling to system level controls, switchgear, and remote connectivity.

Warranty and service – Products are backed by a comprehensive warranty and a worldwide network of distributors with factory-trained service technicians.



Isometric (ISO) projection: front views

HUMAN MACHINE INTERFACE (HMI) CAPABILITIES



CONTROL FUNCTIONS

TRANSFER INHIBIT

When transfer inhibit external input is active, the control does not automatically transfer the transfer switch to a standby source even when the preferred source fails.

RETRANSFER INHIBIT

When retransfer inhibit external input is active, the control does not automatically retransfer the transfer switch to a preferred source even when the preferred source returns.

REAL TIME CLOCK

This feature is used by the control for fault and event time stamping and as a reference for exerciser schedules and exception schedules.

TEST – REMOTE

Test feature allows the user to automatically test the standby source and the transfer switch. The test command can be issued from the remote source.

The test has following types available:

- Remote Start On Load
- Remote Start Off Load

ELEVATOR SIGNAL

This optional feature allows an elevator connected to the system to come to a complete stop before the switch transfers.

EXERCISER SCHEDULER

The Scheduler allows the user to configure pre-set automatic starting and stopping of the Generator (when in Auto mode).

BANK 1 / BANK 2

Each Bank of the Exercise Scheduler is used to give up to 8 scheduled runs per bank, 16 in total. This run schedule is configurable to repeat every 7 days (weekly) or every 28 days (monthly). Do Not Transfer, Off Load and On Load. Each scheduler bank configured differently either to weekly or monthly based exercises.

SOURCE AVAILABILITY

This feature monitors the frequency and voltage sensors on the preferred and standby sources to determine and declare the availability status of the two sources, irrespective of which source is connected to the load. It declares the states as event codes. Preferred/Standby Available - active inactive.

VOLTAGE SENSING

3-phase sensing on Source 1 and Source 2 (up to 600 Vac with no need for additional PTs). Plant battery voltage monitoring.

ALPHANUMERIC DISPLAY

- S2 Voltage L1-N
- S2 Voltage L-L
- S2 Frequency
- S1 Voltage L1-N
- S1 Voltage L-L
- S1 Frequency
- Battery voltage
- Current alarms with icons
- Event log
- Scheduler
- About

LOAD SHED

This feature allows the user to shed/disconnect the electrical load from a standby source. This feature is typically used to reduce non-emergency load demand on the generator when the generator is in an overload condition.

LOAD POWER MONITORING

This feature allows the monitoring of the following parameters on the load side of the transfer switch using the display, or remotely via the optional communication modules:

- Amps: L1 - L2 - L3
- Watts: L1 - L2 - L3 - Total
- VA: L1 - L2 - L3 - Total
- Var: L1 - L2 - L3 - Total
- Power Factor: L1 - L2 - L3 - Average

RELAY EXPANSION MODULE DSE2157

This feature allows the user to provide additional output to the control system, up to 16 user configurable dry contact sets - 8 NO, 8 Form-C.

TIME DELAYS

The following adjustable time delays are built into the transfer switch control. External modules to accomplish these delays are not required.

- **Start Delay** (Also known as Time Delay Engine Start, TDES adjustable from 0 to 10 hours)
- **Warming** (Also known as Time Delay Normal to Emergency, TDNE adjustable from 0 to 1 hour)
- **Elevator Delay** (Also known as Time Delay Elevator, TDEL adjustable from 0 to 5 minutes)
- **Non-sync Transfer Time** (Also known as Time Delay Programmed Transition, TDPT adjustable from 0.5 s to 10 minutes)
- **Return Delay** (Also known as Time Delay Emergency to Normal, TDEN adjustable from 0 to 5 hours)
- **Cooling** (Also known as Time Delay Engine Cool-down, TDEC adjustable from 0 to 1 hour)

LED INDICATOR LIGHTS

- Auto mode (RED)
- Source 1 available (GREEN)
- Source 2 available (GREEN)
- Source 1 connected to load (GREEN)
- Source 2 connected to load (GREEN)
- Common Alarm indicator (RED)
- Select Operating mode (RED)
- Stop mode (RED)
- Manual Mode (RED)

EVENTS LOG

The control displays information on up to 10 events displayed in chronological order, beginning with the most recent event, about either source. The event information includes the following:

- Failure modes
- Warning
- Tests and exercises
- User-driven inputs (e.g., override, transfer inhibit)

SUPPORTED APPLICATIONS

APPLICATION TYPES

- Utility - Generator Set

COMMUNICATIONS

The PowerCommand® 40-11 Transfer Switch Control features an optional network communication module.

Features include:

- Optional Modbus® RTU RS485 communication module (1 isolated serial port) TCP Ethernet communication module (1 RJ45 port)
- USB port for service tool interface

PROTECTION

PHASE ROTATION AND VOLTAGE IMBALANCE SENSING

- Source 1 and Source 2

UNDER-VOLTAGE SENSING

- 3-phase normal, 3-phase emergency, Accuracy: ±2 % of full-scale phase to phase
- Phase to neutral voltage range 50Vac to 414Vac.
- Phase to phase voltage range 86Vac to 717Vac.

OVERVOLTAGE SENSING

- 3-phase normal, 3-phase emergency, Accuracy: ±2 % of full-scale phase to phase
- Phase to neutral voltage range 52Vac to 416Vac.
- Phase to phase voltage range 90Vac to 720Vac.

OVER/UNDER FREQUENCY SENSING

- Normal and emergency
- Accuracy: ±0.2 Hz
- Frequency range 3.5 – 75 Hz

SYNC CHECK

- For in-phase transfer

ENVIRONMENT

Operating Temperature Range	Control operates over an ambient temperature range: -30 ºC to 70 ºC.
Storage Temperature Range	The control operates after being exposed to Storage Temperatures in the range of -40 ºC to 85ºC.
Ingress Protection	The front panel is to be IP65.
Sun Protection	Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water exposure and Immersion in accordance with UL 746C.

CODES AND STANDARDS

c UL us	The PC40-11 control is a UL Recognized Component Marked for United States and Canada.	NFPA	Capable of being used on systems compliant with NFPA 70, 99 and 110 (Level 1).
UK CA	The PC40-11 control fulfills the requirements of UKCA standard product directives.	NEMA	Control and display as installed in a transfer switch enclosure comply with NEMA 4X and IP65 at the transfer switch level - if the transfer switch enclosure is also NEMA 4X & IP65 compliant.
RoHS	The control is RoHS compliant.	NEC®	Capable of being used on systems suitable for use in emergency, legally required and Standby and Critical Operations Power Systems (COPS) applications per NEC 700, 701, 702 and 708.
CE	Fulfills the requirements of relevant European product directives.	LVD	The unit is designed to comply with European directive 72/23/EEC by complying with harmonized European safety standard BS EN 60950.
CSA®	All switches are certified to CSA C22.2 No. 178.1 switching of electrical energy in emergency or other systems, up to 600 VAC and 4 kA.	IEEE	The control is IEEE C37.90.2 certified. Capable of being used on IEEE 446 compliant systems; Recommended Practice for Emergency and Standby Power Systems.
EMC	The control is tested to meet the following CE Electromagnetic Compatibility (EMC) standards for EN 61000 series (electromagnetic compatibility): • EN 61000-6-2 Generic Immunity Standard • EN 61000-6-4 Generic Emissions		

For more information, please contact your local Cummins distributor or visit cummins.com Our energy working for you™

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VMC GROUP
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CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-52956-01C (Revision 7)

Expiration Date: 7/31/2026

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2021, 2018, 2015, 2012

The following model designations, options, and accessories are included in this certification. Reference report number VMA-52956-01 as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Cummins Power Generation, Inc.; Automatic & By-Pass Transfer Switches
OTEC, OTECSE, BTPC, CBL; 40-1200 Amp

The above referenced equipment is **APPROVED** for seismic application when properly installed[3], used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_p=1.5. The equipment is qualified by successful seismic shake table testing at the nationally recognized Clark Dynamic Test Laboratory, Environmental Testing Laboratories, and Dynamic Certification Laboratories under the review of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels[8]			
Certified IBC	**Importance $I_p \leq 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	z/h ≤ 1.0	z/h = 0.0
		$S_{DS} \leq 2.270$ g	$S_{DS} \leq 2.500$ g

The qualified seismic design level stated is the highest for all series this certificate covers. For more information, see the certified product tables on page 2.

Certified Seismic Installation Methods[9]	
Directly To Structural Wall	Rigid Mounting From Unit Base To Rigid Structure
Combination Rigid Mounting from Unit Base to Rigid Structure and Directly to Structural Wall	

HEADQUARTERS
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Bloomingdale, NJ 07403
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Toll Free: 800.569.8423
Fax: 973.492.8430

CALIFORNIA
180 Promenade Circle
Suite 300
Sacramento, CA 95834
Phone: 916.634.7771

TEXAS
11930 Brittmoore Park Drive
Houston, TX 77041
Phone: 713.466.0003
Fax: 713.466.1355

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CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certified Product Table:

Model	Amp Range	Frame	NEMA Rating	Height [in.]	Width [in.]	Depth [in.]	Max Weight [lbs]	Mounting
OTEC	40, 70, 125	A	1, 3R, 4, 4X, 12	46	32	16	336	Rigid Wall
	150, 225, 260	B						
	300, 400, 600	C		74	21	32.4	521	
	800, 1000	D				33	589	
OTECSE	40, 70, 100, 125	A-SE	1, 3R, 12	43.4	32	16.3	364	
	150, 200, 225, 250	B-SE		74	34	20	611	
	300, 400, 600	C-SE		74.5	22.4	34.4	651	
BTPC	150-260	B	1, 3R, 4, 12	72	36	23	564	Rigid Base
	300-600	C		84			639	
	800-1000	D		90	48	28	1100	
CBL	150-600	C		84	36	23	810	
	800-1000	D					1179	
OTEC	1200	E	1, 3R, 4, 12, 4X	93.3	27.5	39	891	
OTECSE	800-1000	D-SE	1, 3R, 4, 12		27.8		1034	
OTEC	1200	E	1, 3R, 4, 12, 4X	93.3	27.5	39	891	Combination Rigid Base/Wall
OTECSE	800-1000	D-SE	1, 3R, 4, 12				1034	

Group	Type	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{Flex-H}	A_{Rig-H}	A_{Flex-V}	A_{Rig-V}	F_p/W_p
All Models	AC156	2.50	2.27	3.63	2.72	1.67	0.67	1.70
Any Model with P80 Controller			2.00	3.20	2.40			1.50

This certification includes the Automatic & By-Pass Transfer Switches and included factory supplied options. This certification only covers accessories and options listed on the product matrix. The ATS shall be installed per the manufacturer supplied seismic installation instructions. For a list of certified options please directly contact the manufacturer. This certification excludes all non-factory supplied accessories and options, including but not limited to isolation/restraint devices, other electrical/mechanical components and their connections. Flexibility in the connections must be maintained as to not transmit load into the equipment.

IBC CERTIFIED VMC GROUP

VMA-52956-01C (Revision 7)
Issue Date: Monday, December 16, 2019
Revision Date: Tuesday, October 8, 2024
Expiration Date: Friday, July 31, 2026

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CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.

2. The following building codes are addressed under this certification:
   IBC 2021 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2012 referencing ASCE7-10 and ICC-ES AC-156

3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for ensuring the proper installation of all anchors and mounting hardware.

4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, the VMC Group, and meets the seismic design levels claimed by this certificate.

5. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification makes no statements of compliance in regards to NEMA, IP, UL, CSA, or other relevant standards after a seismic event. For compliance to other relevant standards, please contact the manufacturer.

6. This certificate applies to units manufactured at:
   Cummins Power Systems Eje 122 # 200 Zona Industrial CP 78395 San Luis Potosi SLP México
   Cummins Natural Gas Engines 409 S. Norris Street Clovis, NM 88101 U.S.A.

7. This certification follows the VMC Group's ISO-17065 Scheme.

8. The qualified seismic design level stated is the highest for all series this certificate covers. For more information, see the certified product tables on page 2.

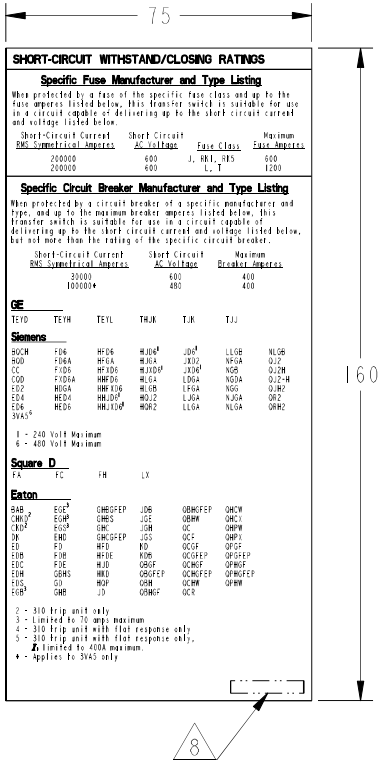
9. The certified seismic installation methods stated are a summary for all product lines this certificate covers. For individual certified seismic installation methods, see the certified product tables.

John P. Giuliano, PE
President, VMC Group

IAS ACCREDITED Product Certification Agency

VMA-52956-01C (Revision 7)
Issue Date: Monday, December 16, 2019
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IBC CERTIFIED VMC GROUP



SHORT-CIRCUIT WITHSTAND/CLOSING RATINGS

Specific Fuse Manufacturer and Type Listing

When protected by a fuse of the specific fuse class and up to the fuse amperes listed below, this transfer switch is suitable for use in a circuit capable of delivering up to the short-circuit current and voltage listed below.

Short-Circuit Current RMS Symmetrical Amperes	Short Circuit AC Voltage	Fuse Class	Maximum Fuse Amperes
200000	600	J, RK1, RK5	600
200000	600	L, T	1200

Specific Circuit Breaker Manufacturer and Type Listing

When protected by a circuit breaker of a specific manufacturer and type, and up to the maximum breaker amperes listed below, this transfer switch is suitable for use in a circuit capable of delivering up to the short-circuit current and voltage listed below, but not more than the rating of the specific circuit breaker.

Short-Circuit Current RMS Symmetrical Amperes	Short Circuit AC Voltage	Maximum Breaker Amperes
30000	600	400
100000♦	480	400

GE

TEYD TEYH TEYL THJK TJK TJJ

Siemens

BOCH	FD6	HFD6	HJD6[4]	JD6[3]	LLGB	NLGB
HDD	FD6A	HFXA	HJKA	JXD2	NFGA	QJ2
CC	FXD6	HFXD6	HJXD6[3]	JXD6[3]	NGB	QJ2H
CDD	FXD6A	HHFD6	HLGA	LDGA	NGDA	QJ2-H
ED2	HDGA	HHFXD6	HLGB	LFGA	NGG	QJR2
ED4	HED4	HHJD6[3]	HQJ2	LJGA	NJGA	QR2
ED6	HED6	HHJD6[4]	HQR2	LLGA	NLGA	QRR2
SVA5[6]						

1 - 240 Volt Maximum
6 - 480 Volt Maximum

Square D

FA FC FH LX

Eaton

BAB	EGE[3]	GHEGFEP	JD6	QBHGFEP	QHCW
CHKD[2]	EGH[3]	GHES	JGE	QBHW	QHCX
CKDF	EGX[3]	GHC	JGH	QC	QHPW
DK	EHD	GHCGFEP	JGS	QCF	QHPX
ED	FD	HFD	KD	QCGF	QFGF
EDB	FDB	HFDE	KDB	QCGFEP	QFGFEP
EDC	FDE	HJD	QBGF	QCHGF	QFHGF
EDH	GBHS	HKD	QBGFEP	QCHGFEP	QFHGFEP
EDS	GD	HQF	QBH	QCHW	QFHW
FGB[3]	GHB	JD	QBHGF	QCR	

2 - 310 trip unit only
3 - Limited to 70 amps maximum
4 - 310 trip unit with flat response only
5 - 310 trip unit with flat response only, ♦ limited to 400A maximum.
♦ - Applies to SVA5 only

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3. BLACK TEXT AND WHITE BACKGROUND.
4. MATERIAL THICKNESS: 10 MIL.
5. SEE CUMMINS MATERIAL SPECIFICATIONS FOR APPLICATION INFORMATION.
6. IF CORNERS SHOWN SQUARE, RADIUS OPTIONAL.
7. IF CSA AGENCY APPROVAL REQUIRED LOCATE VENDOR CSA IDENTIFICATION MARK IN LOWER RIGHT HAND CORNER.
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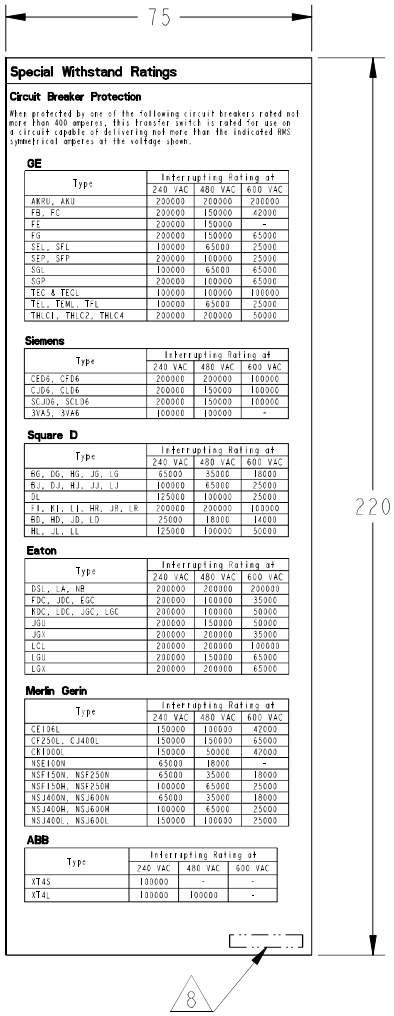
MODEL/PLATFORM: OT 150-260A	THIS PART IS SIMILAR TO:
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY	ANG. TOL.: ± 1°
DIMENSIONAL TOLERANCES: X ± 1	.X ± 0.8 .XX ± 0.38
Cummins Inc.	
DIMENSIONS ARE IN: MILLIMETERS [ ] ARE IN: -	SIZE: A3 SCALE:1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009	THIRD ANGLE PROJECTION
	CAD SYSTEM PTC® Creo® Parametric

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Part Number: **A048E949** Part Revision: **C**
Part Name: **LABEL,INFORMATION**
Drawing Category: **Detail** State: **Released**



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8. PART NUMBER & REVISION LETTER TO BE LOCATED WHERE SHOWN IN THE FOLLOWING FORMAT: PART NUMBER LTR (EXAMPLE: A123B456 A).

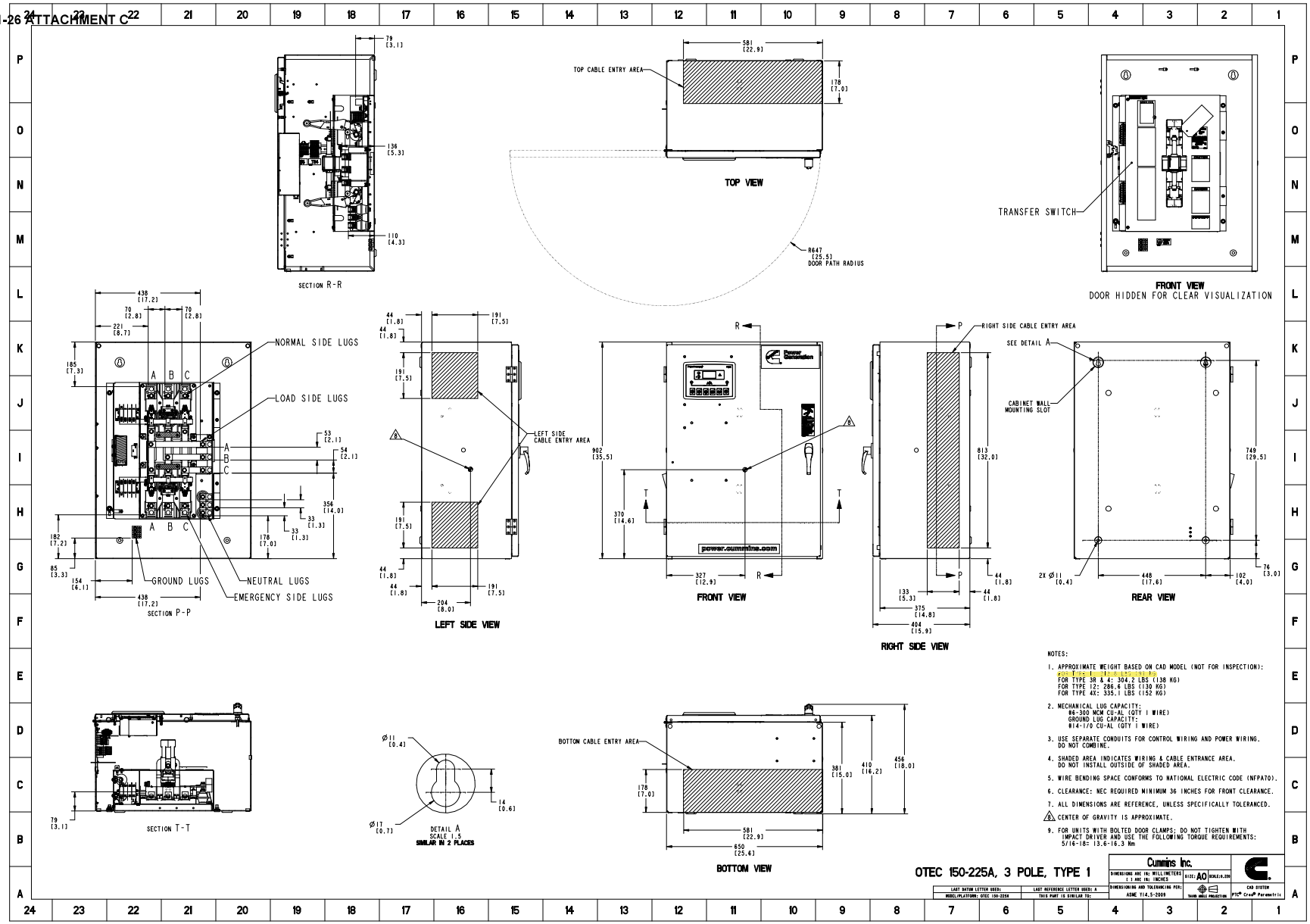
MODEL/PLATFORM: BT/BTPC 150-260A	THIS PART IS SIMILAR TO:
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY	ANG. TOL.: ± 1°
DIMENSIONAL TOLERANCES: X ± 1 .X ± 0.8 .XX ± 0.38	
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DIMENSIONS ARE IN: MILLIMETERS [ ] ARE IN: -	SIZE: A3 SCALE:1
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	CAD SYSTEM PTC® Creo® Parametric

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Part Number: **A051D533** Part Revision: **C**
Part Name: **LABEL,INFORMATION**
Drawing Category: **Detail** State: **Released**



NOTES:

1. APPROXIMATE WEIGHT BASED ON CAD MODEL (NOT FOR INSPECTION):
   FOR TYPE 3R & 4: 304.2 LBS (138 KG)
   FOR TYPE 12: 286.6 LBS (130 KG)
   FOR TYPE 4X: 335.1 LBS (152 KG)
2. MECHANICAL LUG CAPACITY:
   #6-300 MCM CU-AL (QTY 1 WIRE)
   GROUND LUG CAPACITY:
   #14-1/0 CU-AL (QTY 1 WIRE)
3. USE SEPARATE CONDUITS FOR CONTROL WIRING AND POWER WIRING. DO NOT COMBINE.
4. SHADED AREA INDICATES WIRING & CABLE ENTRANCE AREA. DO NOT INSTALL OUTSIDE OF SHADED AREA.
5. WIRE BENDING SPACE CONFORMS TO NATIONAL ELECTRIC CODE (NFPA70).
6. CLEARANCE: NEC REQUIRED MINIMUM 36 INCHES FOR FRONT CLEARANCE.
7. ALL DIMENSIONS ARE REFERENCE, UNLESS SPECIFICALLY TOLERANCED.
8. CENTER OF GRAVITY IS APPROXIMATE.
9. FOR UNITS WITH BOLTED DOOR CLAMPS; DO NOT TIGHTEN WITH IMPACT DRIVER AND USE THE FOLLOWING TORQUE REQUIREMENTS: 5/16-18: 13.6-16.3 Nm

OTEC 150-225A, 3 POLE, TYPE 1

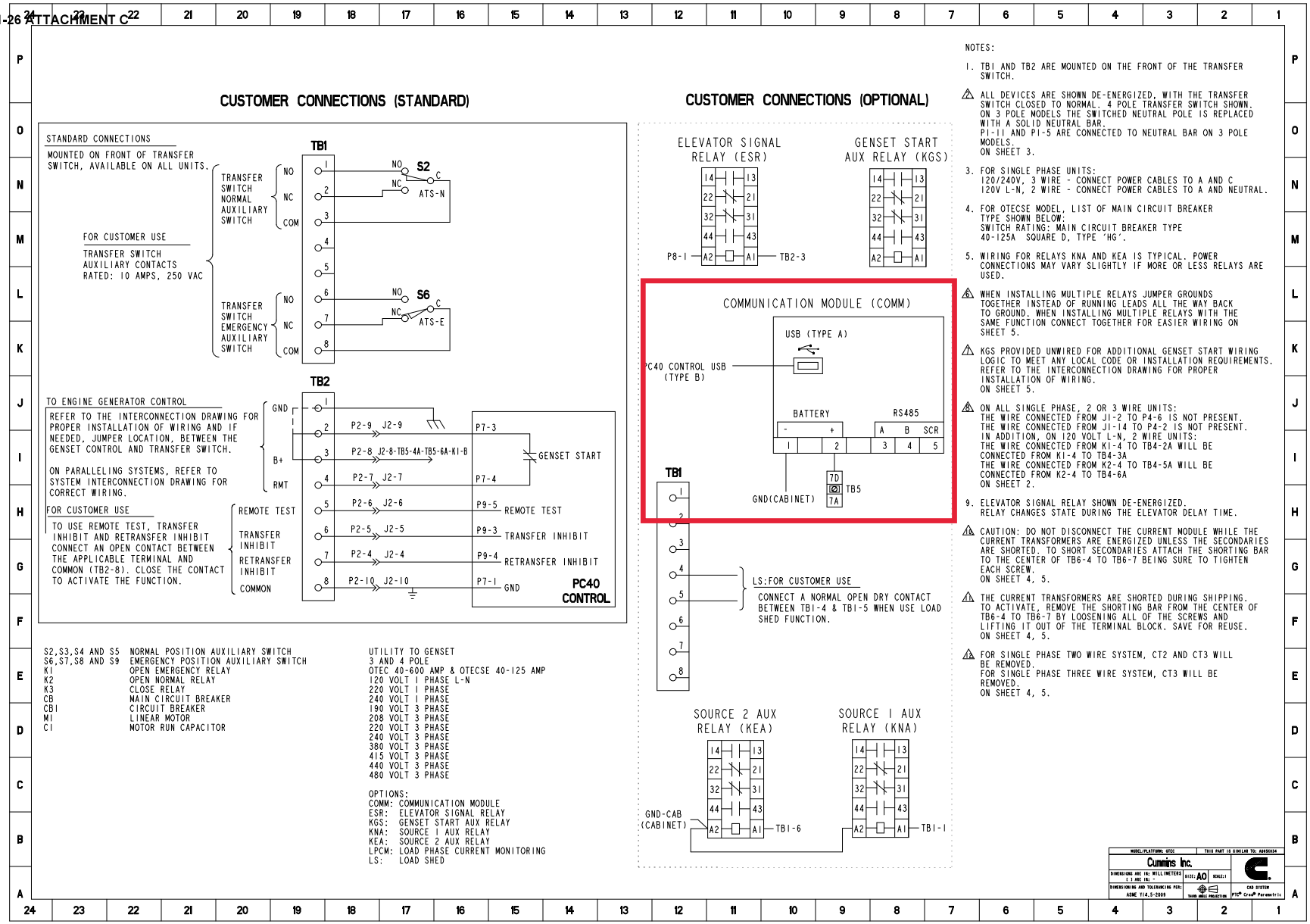
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Part Number: **A074K575** Part Revision: **A**
Part Name: **OUTLINE,ENCLOSURE**
Drawing Category: **Outline** State: **Released**



S2,S3,S4 AND S5 NORMAL POSITION AUXILIARY SWITCH
S6,S7,S8 AND S9 EMERGENCY POSITION AUXILIARY SWITCH
K1 OPEN EMERGENCY RELAY
K2 OPEN NORMAL RELAY
K3 CLOSE RELAY
CB MAIN CIRCUIT BREAKER
CB1 CIRCUIT BREAKER
M1 LINEAR MOTOR
C1 MOTOR RUN CAPACITOR

UTILITY TO GENSET
3 AND 4 POLE
OTEC 40-600 AMP & OTECSE 40-125 AMP
120 VOLT 1 PHASE L-N
220 VOLT 1 PHASE
240 VOLT 1 PHASE
190 VOLT 3 PHASE
208 VOLT 3 PHASE
220 VOLT 3 PHASE
240 VOLT 3 PHASE
380 VOLT 3 PHASE
415 VOLT 3 PHASE
440 VOLT 3 PHASE
480 VOLT 3 PHASE

OPTIONS:
COMM: COMMUNICATION MODULE
ESR: ELEVATOR SIGNAL RELAY
KGS: GENSET START AUX RELAY
KNA: SOURCE 1 AUX RELAY
KEA: SOURCE 2 AUX RELAY
LPCM: LOAD PHASE CURRENT MONITORING
LS: LOAD SHED

NOTES:

1. TB1 AND TB2 ARE MOUNTED ON THE FRONT OF THE TRANSFER SWITCH.
2. ALL DEVICES ARE SHOWN DE-ENERGIZED, WITH THE TRANSFER SWITCH CLOSED TO NORMAL. 4 POLE TRANSFER SWITCH SHOWN. ON 3 POLE MODELS THE SWITCHED NEUTRAL POLE IS REPLACED WITH A SOLID NEUTRAL BAR. P1-11 AND P1-5 ARE CONNECTED TO NEUTRAL BAR ON 3 POLE MODELS. ON SHEET 3.
3. FOR SINGLE PHASE UNITS: 120/240V, 3 WIRE - CONNECT POWER CABLES TO A AND C 120V L-N, 2 WIRE - CONNECT POWER CABLES TO A AND NEUTRAL.
4. FOR OTECSE MODEL, LIST OF MAIN CIRCUIT BREAKER TYPE SHOWN BELOW: SWITCH RATING: MAIN CIRCUIT BREAKER TYPE 40-125A SQUARE D, TYPE 'HG'.
5. WIRING FOR RELAYS KNA AND KEA IS TYPICAL. POWER CONNECTIONS MAY VARY SLIGHTLY IF MORE OR LESS RELAYS ARE USED.
6. WHEN INSTALLING MULTIPLE RELAYS JUMPER GROUNDS TOGETHER INSTEAD OF RUNNING LEADS ALL THE WAY BACK TO GROUND. WHEN INSTALLING MULTIPLE RELAYS WITH THE SAME FUNCTION CONNECT TOGETHER FOR EASIER WIRING ON SHEET 5.
7. KGS PROVIDED UNWIRED FOR ADDITIONAL GENSET START WIRING LOGIC TO MEET ANY LOCAL CODE OR INSTALLATION REQUIREMENTS. REFER TO THE INTERCONNECTION DRAWING FOR PROPER INSTALLATION OF WIRING. ON SHEET 5.
8. ON ALL SINGLE PHASE, 2 OR 3 WIRE UNITS: THE WIRE CONNECTED FROM J1-2 TO P4-6 IS NOT PRESENT. THE WIRE CONNECTED FROM J1-14 TO P4-2 IS NOT PRESENT. IN ADDITION, ON 120 VOLT L-N, 2 WIRE UNITS: THE WIRE CONNECTED FROM K1-4 TO TB4-2A WILL BE CONNECTED FROM K1-4 TO TB4-3A THE WIRE CONNECTED FROM K2-4 TO TB4-5A WILL BE CONNECTED FROM K2-4 TO TB4-6A ON SHEET 2.
9. ELEVATOR SIGNAL RELAY SHOWN DE-ENERGIZED. RELAY CHANGES STATE DURING THE ELEVATOR DELAY TIME.
10. CAUTION: DO NOT DISCONNECT THE CURRENT MODULE WHILE THE CURRENT TRANSFORMERS ARE ENERGIZED UNLESS THE SECONDARIES ARE SHORTED. TO SHORT SECONDARIES ATTACH THE SHORTING BAR TO THE CENTER OF TB6-4 TO TB6-7 BEING SURE TO TIGHTEN EACH SCREW. ON SHEET 4, 5.
11. THE CURRENT TRANSFORMERS ARE SHORTED DURING SHIPPING. TO ACTIVATE, REMOVE THE SHORTING BAR FROM THE CENTER OF TB6-4 TO TB6-7 BY LOOSENING ALL OF THE SCREWS AND LIFTING IT OUT OF THE TERMINAL BLOCK. SAVE FOR REUSE. ON SHEET 4, 5.
12. FOR SINGLE PHASE TWO WIRE SYSTEM, CT2 AND CT3 WILL BE REMOVED. FOR SINGLE PHASE THREE WIRE SYSTEM, CT3 WILL BE REMOVED. ON SHEET 4, 5.

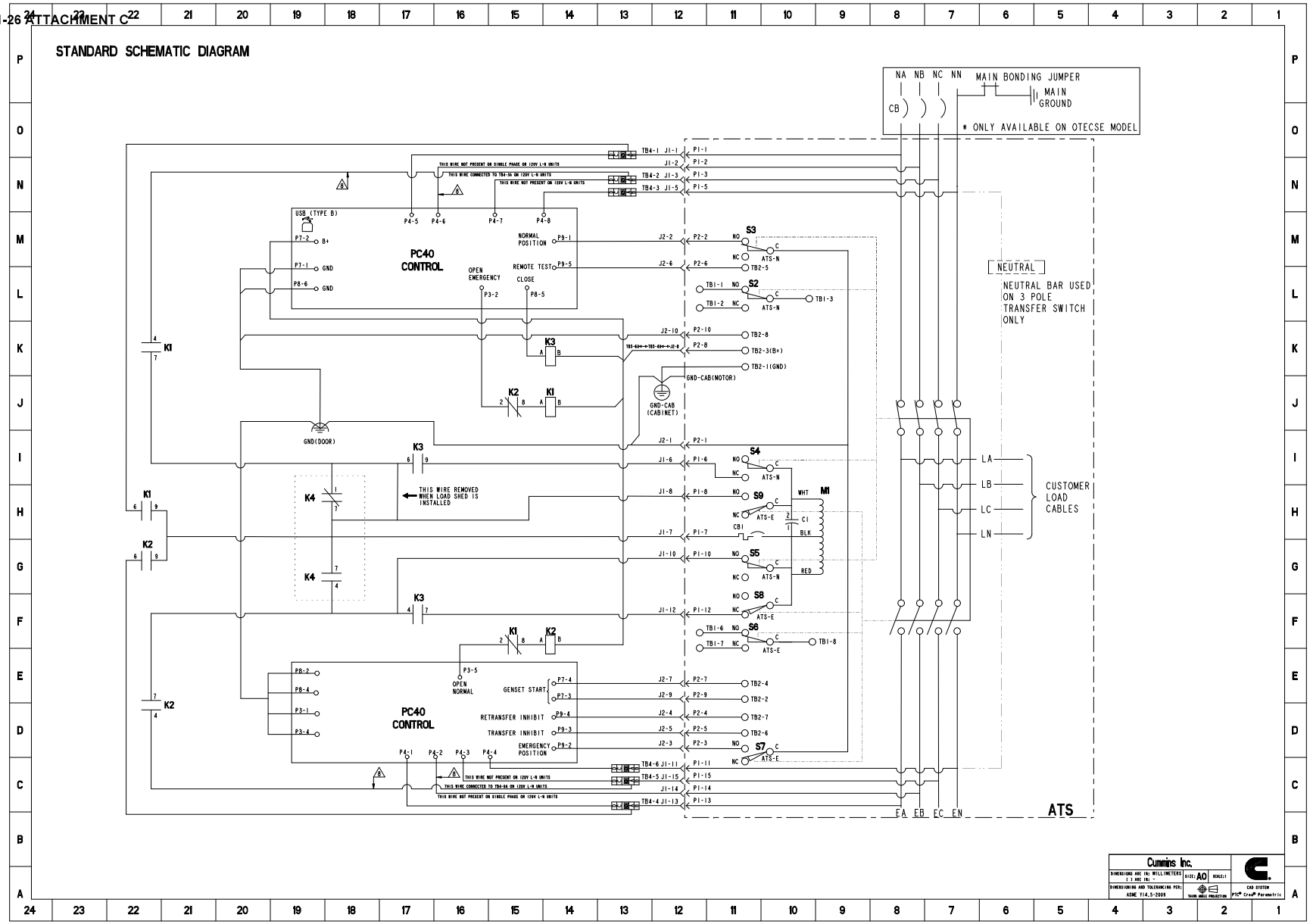
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Part Number: **A074P733** Part Revision: **B**
Part Name: **DIAGRAM,SCHEMATIC**
Drawing Category: **Detail** State: **Released**

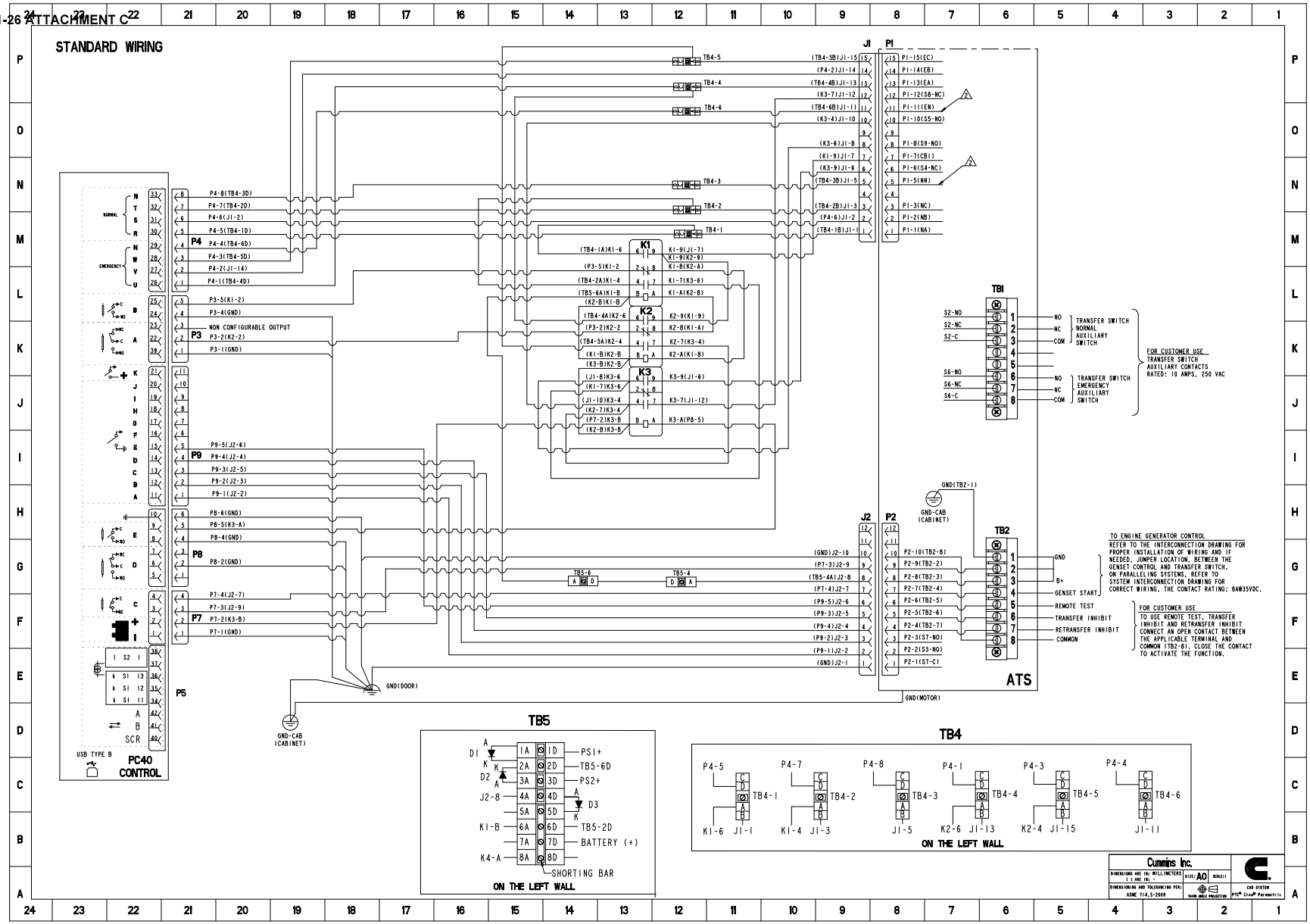


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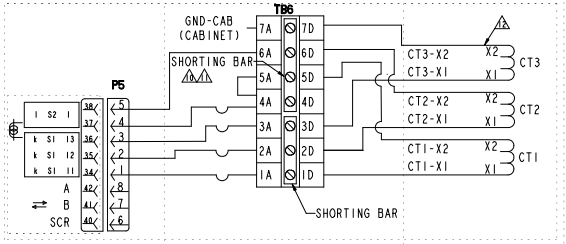
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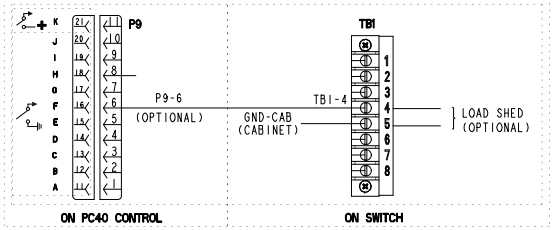
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Part Name: **DIAGRAM,SCHEMATIC**
Drawing Category: **Detail** State: **Released**

OPTIONAL WIRING

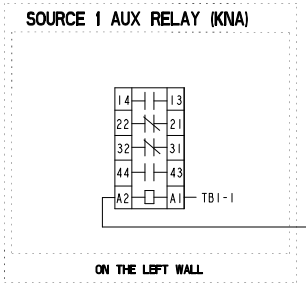
LOAD PHASE CURRENT MONITORING (LPCM)



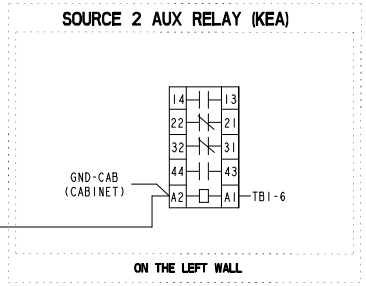
LOAD SHED (LS)



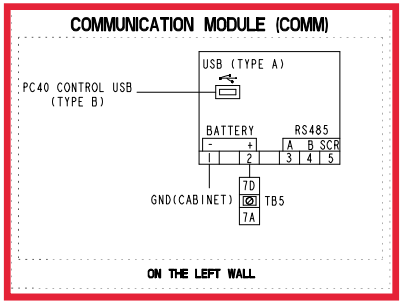
SOURCE 1 AUX RELAY (KNA)



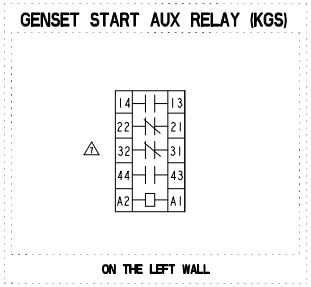
SOURCE 2 AUX RELAY (KEA)



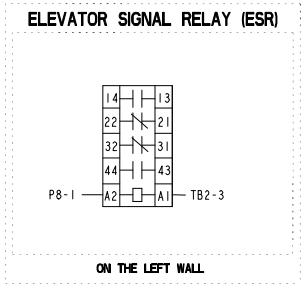
COMMUNICATION MODULE (COMM)



GENSET START AUX RELAY (KGS)



ELEVATOR SIGNAL RELAY (ESR)



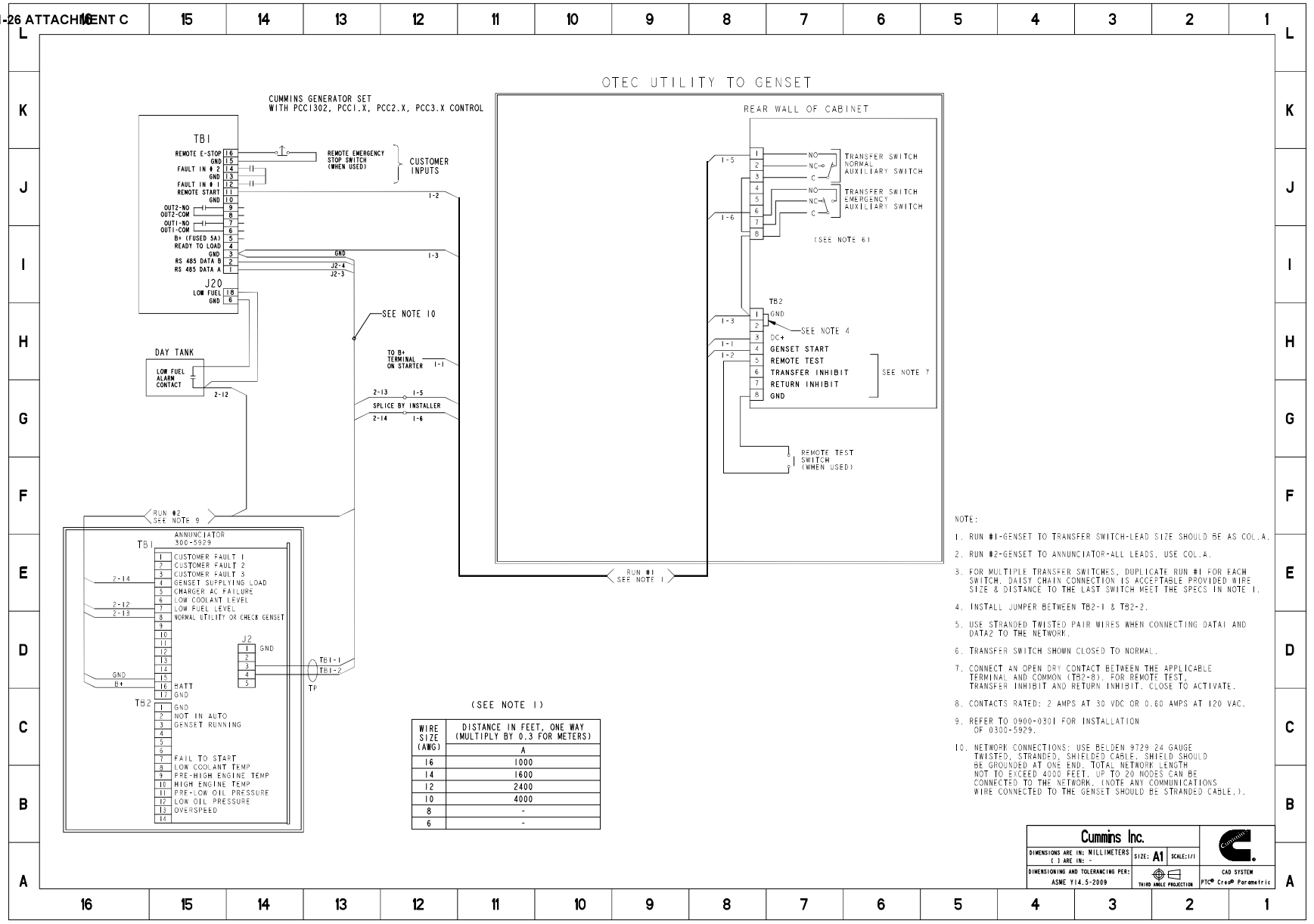
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Part Name: **DIAGRAM,SCHEMATIC**
Drawing Category: **Detail** State: **Released**



(SEE NOTE 1)

WIRE SIZE (AWG)	DISTANCE IN FEET, ONE WAY (MULTIPLY BY 0.3 FOR METERS)
16	1000
14	1600
12	2400
10	4000
8	-
6	-

NOTE:

1. RUN #1-GENSET TO TRANSFER SWITCH-LEAD SIZE SHOULD BE AS COL.A.
2. RUN #2-GENSET TO ANNUNCIATOR-ALL LEADS, USE COL.A.
3. FOR MULTIPLE TRANSFER SWITCHES, DUPLICATE RUN #1 FOR EACH SWITCH. DAISY CHAIN CONNECTION IS ACCEPTABLE PROVIDED WIRE SIZE & DISTANCE TO THE LAST SWITCH MEET THE SPECS IN NOTE 1.
4. INSTALL JUMPER BETWEEN TB2-1 & TB2-2.
5. USE STRANDED TWISTED PAIR WIRES WHEN CONNECTING DATA1 AND DATA2 TO THE NETWORK.
6. TRANSFER SWITCH SHOWN CLOSED TO NORMAL.
7. CONNECT AN OPEN DRY CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). FOR REMOTE TEST, TRANSFER INHIBIT AND RETURN INHIBIT. CLOSE TO ACTIVATE.
8. CONTACTS RATED: 2 AMPS AT 30 VDC OR 0.60 AMPS AT 120 VAC.
9. REFER TO 0900-0301 FOR INSTALLATION OF 0300-5929.
10. NETWORK CONNECTIONS: USE BELDEN 9729 24 GAUGE TWISTED, STRANDED, SHIELDED CABLE. SHIELD SHOULD BE GROUNDED AT ONE END. TOTAL NETWORK LENGTH NOT TO EXCEED 4000 FEET. UP TO 20 NODES CAN BE CONNECTED TO THE NETWORK. (NOTE ANY COMMUNICATIONS WIRE CONNECTED TO THE GENSET SHOULD BE STRANDED CABLE.).

Cummins Inc.		
DIMENSIONS ARE IN: MILLIMETERS ( ) ARE IN: -	SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009	THIRD ANGLE PROJECTION	CAD SYSTEM PTC® Creo® Parametric

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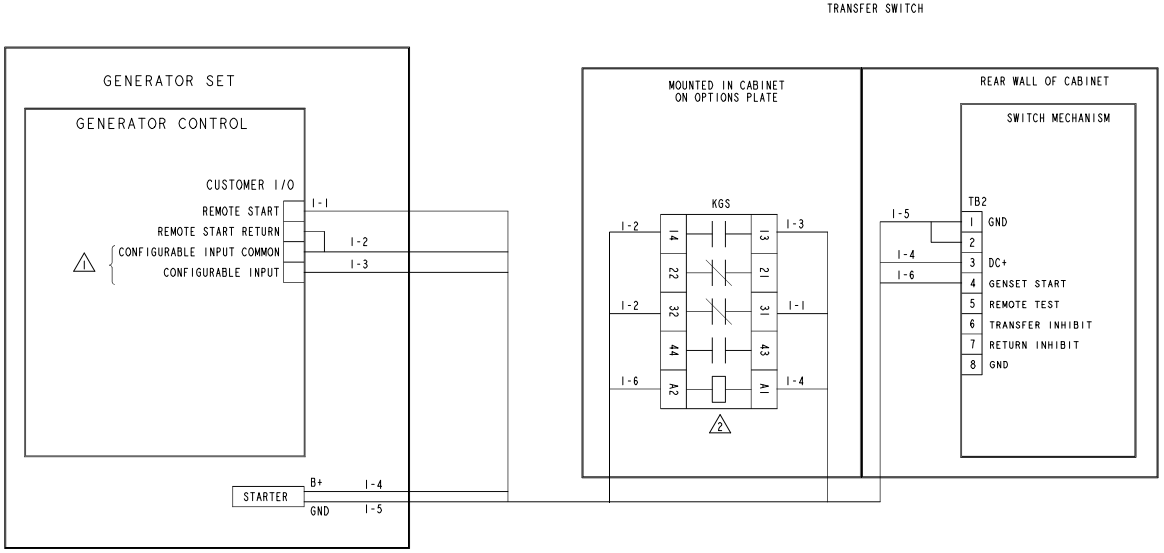
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NFPA 70 ARTICLE 700.10(D)(3) COMPLIANT GENERATOR CONTROL WIRING

CUMMINS PCC 1302, PCC2300, PCC3300 GENERATOR SET CONTROLS

SINGLE ATS CONFIGURATION



NOTES:

1. THESE PHYSICAL CONNECTIONS CAN BE ANY OF THE ONBOARD CONFIGURABLE CUSTOMER INPUTS AVAILABLE FROM THE GENSET CONTROL BOARD OR AUX I01 OR I02 BOARDS CONFIGURED FOR FUNCTION POINTER "START SIGNAL INTEGRITY"
2. KGS IS PROVIDED STANDARD. RELAY CAN ALSO BE ORDERED BY SELECTING FEATURE LI01-7 OR L201-7 WHEN CONFIGURING PRODUCT OR AS AN ACCESSORY KIT.
3. REFERENCE TECHNICAL SERVICE BULLETIN TSBI80133 FOR ADDITIONAL INFORMATION.

Cummins Inc.		
DIMENSIONS ARE IN: MILLIMETERS ( ) ARE IN: -	SIZE: A1	SCALE: 1/1
DIMENSIONING AND TOLERANCING PER: ASME Y14.5-2009	THIRD ANGLE PROJECTION	CAD SYSTEM PTC® Creo® Parametric

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Power Electronics Extended Warranty Statements

Our energy working for you.™

Cummins Power Generation

Power Electronics Extended Warranty Statements

Feature Codes

G004
G006
G007
G008
G013

Our energy working for you.™

Power Generation

Limited 2 Year Comprehensive Extended Warranty – G004

Transfer Switch and Paralleling Systems

When purchased, this limited extended warranty applies to all Cummins Power Generation® branded Transfer Switches, Paralleling Systems and associated accessories (hereinafter referred to as "Product").

This limited extended warranty covers any failures of the Product, under normal use and service, which result from a defect in material or factory workmanship.

Warranty Period:

The limited extended warranty start date is the date of commissioning†, demonstration or 18 months after factory ship date, whichever is sooner. The coverage duration is 2 years from warranty start date.

† Date of commissioning not to exceed date of Generator Set initial start-up.

Cummins Power Generation® Responsibilities:

In the event of a failure of the Product during the limited extended warranty period due to defects in material or workmanship, Cummins Power Generation® will only be responsible for the following costs:

- All parts and labor required to repair the Product
- Reasonable travel expenses to and from the Product site location..

Owner Responsibilities:

The owner will be responsible for the following:

- Notifying Cummins Power Generation® distributor or dealer within 30 days of the discovery of failure.
- Installing, operating, commissioning and maintaining the Product in accordance with Cummins Power Generation®'s published policies and guidelines.
- Providing evidence for date of commissioning.
- Providing sufficient access to and reasonable ability to remove the Product from the installation in the event of a warrantable failure.

In addition, the owner will be responsible for:

- Incremental costs and expenses associated with Product removal and reinstallation resulting from non-standard installations.
- Costs associated with rental of power generating equipment used to replace the Product being repaired.
- Costs associated with labor overtime and premium shipping requested by the owner.
- All downtime expenses, fines, all applicable taxes, and other losses resulting from a warrantable failure.

Limitations:

This limited extended warranty does not cover Product failures resulting from:

- Inappropriate use relative to designated power rating.
- Inappropriate use relative to application guidelines.
- Non-conformance to applicable industry standards for installation
- Normal wear and tear.
- Improper and/or unauthorized installation.
- Owner's or operator's negligence, accidents or misuse.
- Lack of maintenance or unauthorized repair.
- Noncompliance with any Cummins Power Generation® published guideline or policy.
- Improper storage before and after commissioning.
- Owner's delay in making Product available after notification of potential Product problem.

- Use of steel enclosures within 60 miles of the coast of salt water when aluminum or an alternate non-corrosive material enclosure option is available.
- Replacement parts and accessories not authorized by Cummins Power Generation®.
- Owner or operator abuse or neglect such as: late servicing and maintenance and improper storage.
- Damage to parts, fixtures, housings, attachments and accessory items that are not part of the transfer switch or paralleling system.

This limited extended warranty does not cover costs resulting from:

- Difficulty in gaining access to the Product.
- Repair of cosmetic damage to enclosures.

CUMMINS POWER GENERATION® RIGHT TO FAILED COMPONENTS:
Failed components claimed under warranty remain the property of Cummins Power Generation®. Cummins Power Generation® has the right to reclaim any failed component that has been replaced under warranty.

www.cumminspower.com

THE WARRANTIES SET FORTH HEREIN ARE THE SOLE WARRANTIES MADE BY CUMMINS POWER GENERATION ® IN REGARD TO THE PRODUCT. CUMMINS POWER GENERATION® MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT IS CUMMINS POWER GENERATION® LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This limited extended warranty shall be enforced to the maximum extent permitted by applicable law. This limited warranty gives the owner specific rights that may vary from state to state or from jurisdiction to jurisdiction.

Product Model Number:_____

Product Serial Number:_____

Date in Service:_____

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: Wednesday, April 29, 2026

Department: Sheriff's Office

Title: Approve Grant Agreement with Oregon Parks and Recreation Department

Management Update/Work Session Date: Tuesday, April 14, 2026 **Audio/Visual aids** ☐

Time Required: 10 minutes **Contact:** Kristy Witherell **Phone:** x4402

Requested Action:

Staff is recommending approval of a Grant Agreement with Oregon Parks and Recreation Department in the amount of $243,490.00, to provide one full time position dedicated to patrolling areas open to off highway vehicles within Marion County from July 1, 2026 through June 30, 2027.

Issue, Description & Background:

The Sheriff's Office applied for the Oregon Parks and Recreation Department All-Terrain Vehicle Grant Program to help fund a full-time Deputy position dedicated to patrolling areas open to off highway vehicles within Marion County. The Sheriff's Office was awarded $194,792.00 in grant funding with a 20 percent county match of $48,698.00. The total project cost, including county match funds is $243,490.00, from July 1, 2026 through June 30, 2027.

Financial Impacts:

Incoming funds from grant agreement is $194,792.00, with a county match of $48,698.00. Grant agreement total of $243,490.00 for FY 2026-27.

Impacts to Department & External Agencies:

The grant primarily funds salaries for dedicated deputies to patrol and provide education about ATV rules, helping to maintain safety in riding areas. A dedicated OHV deputy facilitates coordinated enforcement efforts between the MCSO and state agencies like the Oregon Department of Forestry (ODF) and Oregon State Police (OSP), especially in shared recreation areas like the North Fork Road Corridor.

List of attachments: Grant Agreement

Presenter: Commander Jason Bernards

Department Head Signature:

Contract Review Sheet

Grant Agreement **SO-7052-26**

Title: **OPRD Off Highway Vehicle (OHV) Patrol Grant Program**

Contractor's Name: **Oregon Parks and Recreation Department**

Department: **Sheriff's Office** Contact: **Kristy Witherell**

Analyst: **Sandra Fixsen** Phone #: **(503) 373-4402**

Term - Date From: **July 1, 2026** Expires: **June 30, 2027**

Original Contract Amount: **$ 243,490.00** Previous Amendments Amount: **$ -**

Current Amendment: **$ -** New Contract Total: **$ 243,490.00** Amd% **0%**

Incoming Funds ☐ Federal Funds ☐ Reinstatement ☐ Retroactive ☐ Amendment greater than 25%

Source Selection Method: **Not Applicable (Incoming Funds)**

Description of Services or Grant Award

The Sheriff's Office applied for the Oregon Parks and Recreation Department All-Terrain Vehicle Grant Program to help fund a full-time Deputy position dedicated to patrolling areas open to off highway vehicles within Marion County. The Sheriff's Office was awarded $194,792.00 in grant funding with a 20 percent county match of $48,698.00. The total project cost, including county match funds is $243,490.00, from July 1, 2026 through June 30, 2027.

Desired BOC Session Date: **4/29/2026** Contract should be in DocuSign by: **4/8/2026**

Agenda Planning Date **4/16/2026** Printed packets due in Finance: **4/14/2026**

Management Update **4/14/2026** BOC upload / Board Session email: **4/15/2026**

BOC Session Presenter(s) **Commander Bernards** Code: **Y**

REQUIRED APPROVALS

Sandra L. Fixsen — 04/01/2026
Finance - Contracts — Date

Kristy Witherell
Kristy Witherell (Apr 1, 2026 10:31:29 PDT) — 04/01/2026
Contract Specialist — Date

Scott Norris
Scott Norris (Apr 2, 2026 15:22:23 PDT) — 04/02/2026
Legal Counsel — Date

Jan Fritz
Jan Fritz (Apr 3, 2026 08:15:47 PDT) — 04/03/2026
Chief Administrative Officer — Date

Oregon Parks and Recreation Department

All-Terrain Vehicle (ATV) Grant Program Agreement

THIS AGREEMENT ("Agreement") is made and entered into by and between the State of Oregon, acting by and through its **Oregon Parks and Recreation Department**, hereinafter referred to as "OPRD" or the "State" and Marion County Sheriff's Office hereinafter referred to as the "Grantee". Together, State and Grantee are hereinafter referred to as the "Parties" or individually as a party.

OPRD Grant Number:	**ATV 26-10**
Project Title:	**Marion County Law Enforcement patrols 2026-2027**
Project Type (purpose):	**Law Enforcement**
Project Description:	Project funds one full time position dedicated to patrolling areas open to off highway vehicles within Marion County. The Project is further described in Attachment A.

Grant Funds / Maximum Reimbursement:	**$194,792.00**	**(80.00%)**
Grantee Match Participation:	**$48,698.00**	**(20.00%)**
Total Project Cost:	**$243,490.00**	

Grant Payments / Reimbursements: Grant funds are awarded by the State and paid on a reimbursement basis, and only for reasonable and necessary project expenses incurred carrying out the Project described in this Agreement and included as line items in the "Project Budget" in Attachment A and only up to the maximum reimbursement amount. To request reimbursement, Grantee shall use OPRD's online grant management system accessible at https://oprdgrants.org. The request for reimbursement shall include documentation of all project expenses including, when applicable, documentation confirming project invoices have been paid by Grantee. Grantee may request reimbursement as often as quarterly for expenses incurred to date, based on the quarters laid out in Progress Reports. A reimbursement request must also include documentation for all match expenses, as eligible under the rules, policies, and guidelines for the ATV Grant Program which may be found at: https://www.oregon.gov/oprd/GRA/Pages/GRA-atv.aspx.

State Fiscal Year-End Request for Reimbursement: Grantee must submit a Progress Report and a Reimbursement Request to OPRD for all Project expenses, if any, accrued up to **June 30**, of each fiscal year. The Fiscal Year-End Reimbursement Request must be submitted to OPRD by **July 31**.

Reimbursement Terms: Based on the estimated Project Cost of **$243,490.00** and the Grantee's Match participation rate of **20.00%, the reimbursement rate will be 80.00%** of the total project cost. OPRD may require Grantee to meet the match rate for all expenses submitted in each invoice or may waive the match requirement in the individual invoices but enforce the match as to the total project cost. Upon successful completion of the Project and receipt of the final reimbursement request, the State will pay Grantee the remaining Grant Funds balance, or **80.00%** of the total cost of the Project, whichever is less.

Matching Funds: Grantee shall contribute matching funds or the equivalent in labor, materials, or services, which are shown as eligible match in the rules, policies and guidelines for the ATV Grant Program. Volunteer labor used as a match requires a log with the name of volunteer, dates volunteered, hours worked, work location and the rate used for match, to be eligible.

Travel Expenditures: If travel is required in association with this project, the Bureau of Land Management will follow agency guidelines, and the guidance published by the United States General Services Administration (GSA). County governments and non-profit organization Grantees will follow guidelines set forth in the Oregon Accounting Manual as of the date Grantee incurred the travel or other expenses. The Oregon Accounting Manual is available at: https://www.oregon.gov/das/Financial/Acctng/Pages/OAM.aspx.

Progress Reports: After OPRD issues the Notice to Proceed, Grantee shall report to OPRD regarding the status and progress of the project on a quarterly basis, as follows:

For the period beginning January 1, ending March 31:	report is due April 30
For the period beginning April 1, ending June 30:	report is due July 31
For the period beginning July 1, ending September 30:	report is due October 31
For the period beginning October 1, ending December 31:	report is due January 31

Agreement Period: The effective date of this Agreement is the date on which it is fully executed by both Parties or the date specified in the Notice to Proceed letter, if said letter contains an effective date. Unless otherwise terminated or extended, this Agreement shall terminate on **June 30, 2027.** If project is completed before the designated completion date, this Agreement shall expire on the date final reimbursement payment is made by OPRD to Grantee. No Grant Funds are available for any expenditures after termination of this Agreement.

Retention: OPRD shall disburse up to 90 percent of the Grant Funds to Grantee based on the Reimbursement Terms upon approval of invoices submitted to OPRD. OPRD will disburse the final 10 percent of the Grant Funds upon approval by OPRD of a final invoice, the completed Project, and the Final Progress Report.

Final Report: Grantee must submit a Final Progress Report and a Final Reimbursement Request to OPRD within 45 days of the Project Completion Date.

Project Sign: When project is completed, Grantee shall post an acknowledgement sign of their own design, or one supplied by the State, in a conspicuous location at the project site, consistent with the Grantee's requirements, acknowledging grant funding and the State's participation in the Project, for a minimum of 25 years.

Agreement Documents: Included as part of this Agreement are:

This All-Terrain Vehicle Agreement;
Attachment A: Project Scope and Budget;
Attachment B: Standard Terms and Conditions; and
Any other documents incorporated by reference

In the event of a conflict between two or more of the documents comprising this Agreement, the language in the document with the highest precedence shall control. The precedence of each of the documents is as follows, listed from highest precedence to lowest precedence: this All-Terrain Vehicle Agreement without Attachments, Attachment A, Attachment B and any other documents incorporated by reference.

Contact Information: A change in the contact information for either party is effective upon providing notice to the other party:

Grantee Administrator
Kristy Witherell
Marion County Sheriff's Office
100 High Street Northeast PO BOX 14500
Salem, OR 97309
503-373-4402
kwitherell@co.marion.or.us

Grantee Billing Contact
Kristy Witherell
Marion County Sheriff's Office
100 High Street Northeast PO BOX 14500
Salem, OR 97309
503-373-4402
kwitherell@co.marion.or.us

OPRD Contact
Mike Law, ATV Program Rep
Oregon Parks & Rec. Dept.
725 Summer ST NE STE C
Salem, OR 97301
541-991-1989
mike.law@oprd.oregon.gov

Signatures: In witness thereof, the parties hereto have caused this Agreement to be properly executed by their authorized representatives as of the last date hereinafter written.

GRANTEE

Jan Fritz
Jan Fritz (Apr 3, 2026 08:15:47 PDT)
By:_____
Signature

Jan Fritz
Printed Name

Chief Administrative Officer
Title

04/03/2026
Date

Oregon Department of Justice (ODOJ) approved for legal sufficiency for grants exceeding $250,000:

By:__ *N/A* ____
ODOJ Signature or Authorization

STATE OF OREGON
Acting By and Through Its
OREGON PARKS AND RECREATION DEPT.

By:_____
Deputy Director of Field and Community Services

_____
Date

APPROVAL RECOMMENDED

By:_____
Michele Scalise, Manager, Grants & Community Programs

_____
Date

By:_____
Mike Law, ATV Program Representative

_____
Date

ATV Grant Agreement – Attachment A
Project Scope of Work and Budget
ATV 26-10 Marion County Law Enforcement Patrols 2026-2027

Project Scope:
Project funds one full time position dedicated to patrolling areas open to off highway vehicles within Marion County.

Budget Summary:

Grant Funds/Maximum Reimbursement	$194,792.00 (80.00%)
Grantee Match Participation	$48,698.00 (20.00%)
Total Project Cost	$243,490.00

Project Expenses:

Expense Item	Cost or Valuation
Deputy Wages	$194,792.00
Patrol vehicle, fuel, supplies, equipment	$48,698.00
Total Project Cost	**$243,490.00**

Source of Match:

Source	Amount
Marion County Sheriff's Office (Cash and In-Kind/budgeted funds)	$48,698.00
Total Match	**$48,698.00**

Attachment B – Standard Terms and Conditions

Oregon Parks and Recreation Department
All-Terrain Vehicle (ATV) Grant Program Agreement

1. **Compliance with Law:** Grantee shall comply with all federal, state and local laws, regulations, executive orders and ordinances applicable to the Agreement or to implementation of the Project, including without limitation, ORS 390.550 – 390.590, OAR 736.004.0005 – 736.004.0030, the current ATV Grant Program Manual, which is incorporated herein by reference, and all other State adopted policies, guidelines and procedures.

2. **Compliance with Workers Compensation Laws:** All employers, including Grantee, that employ subject workers who provide services in the State of Oregon shall comply with ORS.656.017 and provide the required Worker's Compensation coverage, unless such employers are exempt under ORS 656.126. Employer's liability insurance with coverage limits of not less than $500,000 must be included.

3. **Amendments:** This Agreement may be amended only by a written amendment to the Agreement, executed by the Parties.

4. **Expenditure Records:** Grantee shall document, maintain and submit records to OPRD for all Project expenses in accordance with generally accepted accounting principles, and in sufficient detail to permit OPRD to verify how Grant Funds were expended. These records shall be retained by the Grantee for at least six years after the Agreement terminates. Grantee agrees to allow Oregon Secretary of State auditors and State agency staff access to all records related to this Agreement for audit and inspection and monitoring of services. Such access will be during normal business hours, or by appointment. Grantee shall ensure that each of its subgrantees and subcontractors complies with these requirements.

5. **Equipment:** Equipment purchased with ATV Grant Program funds must be used as described in the Project Description and shall be dedicated and used during the entire life of the equipment for activities set forth in Attachment A. In the case of development and rehabilitation, the project Grantee shall operate the improvements for its full life.

   Equipment must display a sticker supplied by the State, showing the ATV Grant funding source. The vehicle ID or a serial number, together with a photograph of equipment purchased with ATV grant funds shall be submitted to OPRD within 90 days of purchase. Grantee is responsible for maintaining the equipment. Grantee will not sell or dispose of Equipment without prior approval from OPRD. If, after the project period has expired, Grantee still has use for equipment purchased with grant funds for ATV recreational work as described in Attachment A, Grantee may continue to utilize the equipment for ATV recreational work. If Grantee no longer needs to use some or all of the Equipment for ATV activities related to the Project, Grantee agrees to:
   a. Transfer equipment to the State of Oregon through its State Managed Personal Property Center (Oregon State Agency for Surplus Property), consistent with any restrictions or prohibitions applicable at the time of transfer;
   b. Transfer equipment to another organization or governmental entity to be utilized for ATV recreational work, but only as approved in writing by OPRD; or

   Sell, dispose or surplus the equipment in any other manner specifically approved by OPRD. **This section shall survive termination or expiration of this Agreement.**

6. **Contribution:** If any third party makes any claim or brings any action, suit or proceeding alleging a tort as now or hereafter defined in ORS 30.260 ("Third Party Claim") against a party (the "Notified Party") with respect to which the other party ("Other Party") may have liability, the Notified Party must promptly notify the Other Party in writing of the Third Party Claim and deliver to the Other Party a

copy of the claim, process, and all legal pleadings with respect to the Third Party Claim. Either party is entitled to participate in the defense of a Third Party Claim, and to defend a Third Party Claim with counsel of its own choosing. Receipt by the Other Party of the notice and copies required in this paragraph and meaningful opportunity for the Other Party to participate in the investigation, defense and settlement of the Third Party Claim with counsel of its own choosing are conditions precedent to the Other Party's liability with respect to the Third Party Claim.

With respect to a Third Party Claim for which the State is jointly liable with the Grantee (or would be if joined in the Third Party Claim), the State shall contribute to the amount of expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred and paid or payable by the Grantee in such proportion as is appropriate to reflect the relative fault of the State on the one hand and of the Grantee on the other hand in connection with the events which resulted in such expenses, judgments, fines or settlement amounts, as well as any other relevant equitable considerations. The relative fault of the State on the one hand and of the Grantee on the other hand shall be determined by reference to, among other things, the parties' relative intent, knowledge, access to information and opportunity to correct or prevent the circumstances resulting in such expenses, judgments, fines or settlement amounts. The State's contribution amount in any instance is capped to the same extent it would have been capped under Oregon law if the State had sole liability in the proceeding.

With respect to a Third Party Claim for which the Grantee is jointly liable with the State (or would be if joined in the Third Party Claim), the Grantee shall contribute to the amount of expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred and paid or payable by the State in such proportion as is appropriate to reflect the relative fault of the Grantee on the one hand and of the State on the other hand in connection with the events which resulted in such expenses, judgments, fines or settlement amounts, as well as any other relevant equitable considerations. The relative fault of the Grantee on the one hand and of the State on the other hand shall be determined by reference to, among other things, the parties' relative intent, knowledge, access to information and opportunity to correct or prevent the circumstances resulting in such expenses, judgments, fines or settlement amounts. The Grantee's contribution amount in any instance is capped to the same extent it would have been capped under Oregon law if it had sole liability in the proceeding.

Grantee shall take all reasonable steps to cause its contractor(s) that are not units of local government as defined in ORS 190.003, if any, to indemnify, defend, save and hold harmless the State of Oregon and its officers, employees and agents ("Indemnitee") from and against any and all claims, actions, liabilities, damages, losses, or expenses (including attorneys' fees) arising from a tort (as now or hereafter defined in ORS 30.260) caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Grantee's contractor or any of the officers, agents, employees or subcontractors of the contractor ("Claims"). It is the specific intention of the parties that the Indemnitee shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of the Indemnitee, be indemnified by the contractor from and against any and all Claims.

7. **Inspection of Equipment and Project Property:** Grantee shall permit authorized representatives of the State or its designees to perform site reviews of the Project, and to inspect all Equipment, real property, facilities, and other property purchased by Grantee as part of the Project

8. **Public Access:** The Grantee shall allow open and unencumbered public access to the completed Project to all persons without regard to race, color, religious or political beliefs, sex, national origin or place of primary residence.

9. **Condition for Disbursement:** Disbursement of grant funds by OPRD is contingent upon OPRD having received sufficient funding, appropriations, limitations, allotments, or other expenditure authority sufficient to allow OPRD, in the exercise of its reasonable administrative discretion, to make the disbursement and upon Grantee's compliance with the terms of this Agreement.

10. **No Third-Party Beneficiaries.** OPRD and Grantee are the only Parties to this Agreement and are the only Parties entitled to enforce its terms. Nothing in this Agreement gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly or indirectly, to a third person.

11. **Repayment:** In the event that Grantee spends Grant Funds (or State learns or otherwise determines that Grantee had expended funds that were previously reimbursed) in any way prohibited by state or federal law, or for any purpose other than the completion of the Project, the Grantee shall reimburse the State for all such unlawfully or improperly expended funds. Such payment shall be made within 15 days of demand by the State.

12. **Termination:** This Agreement may be terminated by mutual consent of the Parties, or by either Party upon a 30-day notice in writing, delivered by certified mail or in person to the other Party's contact identified in the Agreement. On termination of this Agreement, all accounts and payments will be processed according to the financial arrangements set forth herein for Project costs incurred prior to date of termination. Full credit shall be allowed for reimbursable expenses and the non-cancelable obligations properly incurred up to the effective date of the termination.

13. **Governing Law:** The laws of the State of Oregon (without giving effect to its conflicts of law principles) govern all matters arising out of or relating to this Agreement, including, without limitation, its validity, interpretation, construction, performance, and enforcement. Any Party bringing a legal action or proceeding against any other Party arising out of or relating to this Agreement shall bring the legal action or proceeding in the Circuit Court of the State of Oregon for Marion County. Each party hereby consents to the exclusive jurisdiction of such court, waives any objection to venue, and waives any claim that such forum is an inconvenient forum. In no event shall this section be construed as a waiver by the State of Oregon of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the eleventh amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court.

14. **Entire Agreement:** This Agreement constitutes the entire Agreement between the Parties. No waiver, consent, modification or change of terms of this Agreement shall bind either party unless in writing and signed by both Parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this Agreement. Grantee, by signature of its authorized representative on the Agreement, acknowledges that Grantee has read this Agreement, understands it, and agrees to be bound by its terms and conditions.

15. **Notices:** Except as otherwise expressly provided in this Agreement, any communications between the Parties hereto or notices to be given hereunder shall be given in writing by personal delivery, email, or mailing the same, postage prepaid, to Grantee contact or State contact at the address or number set forth in this Agreement, or to such other addresses or numbers as either Party may hereinafter indicate. Any communication by email shall be deemed to be given when the recipient of the email acknowledges receipt of the email. Any communication or notice mailed shall be deemed to be given when received, or five days after mailing.

16. **Counterparts:** This Agreement may be executed in two or more counterparts (by facsimile or otherwise), each of which is an original and all of which together are deemed one agreement binding on all Parties, notwithstanding that all Parties are not signatories to the same counterpart.

17. **Severability:** If any term or provision of this Agreement is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if this Agreement did not contain the particular term or provision held to be invalid.

SIGNATURE PAGE FOR
OPRD OFF HIGHWAY VEHICLE (OHV) PATROL GRANT PROGRAM - SO-7052-26
between
MARION COUNTY and OREGON PARKS AND RECREATION DEPARTMENT

MARION COUNTY SIGNATURES
BOARD OF COMMISSIONERS:

Chair	Date
Commissioner	Date
Commissioner	Date

Authorized Signature:		04/01/2026
	Department Director or designee	Date
Authorized Signature:	Jan Fritz Jan Fritz (Apr 3, 2026 08:15:47 PDT)	04/03/2026
	Chief Administrative Officer	Date
Reviewed by Signature:	Scott Norris Scott Norris (Apr 2, 2026 15:22:23 PDT)	04/02/2026
	Marion County Legal Counsel	Date
Reviewed by Signature:		04/01/2026
	Marion County Contracts & Procurement	Date

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: Wednesday, May 20, 2026

Department: Sheriff's Office

Title: Amendment #2 to the Incoming Funds IGA with the Oregon State Marine Board

Management Update/Work Session Date: Tuesday, May 5, 2026 **Audio/Visual aids** ☐

Time Required: 5 minutes **Contact:** Kristy Witherell **Phone:** x4402

Requested Action:
Staff is requesting approval of Amendment #2 to the Incoming Funds Intergovernmental Agreement with the Oregon State Marine Board (OSMB) in the amount of $63,193.50, for a contract total of $397,588.50 through June 30, 2027.

Issue, Description & Background:
Marion County Sheriff's Office provides law enforcement services related to recreational boating in Oregon. The Oregon State Marine Board provides funding for these services. Amendment #2 will add $63,193.50 in funding for FY 26-27, increasing the fiscal year total to $215,391.00. This includes a $65,000 pass-through grant from the U.S. Coast Guard. The revised IGA total is now $397,588.50 through June 30, 2027.

Financial Impacts:
Adding $63,193.50 for FY 26-27, which will increase the FY total to $215,391.00.

Impacts to Department & External Agencies:
The funding secured through Amendment #2 provides significant operational advantages for the department and strengthens regional safety partnerships.

List of attachments: Original IGA, Amendment #1 and #2

Presenter: Commander Bernards

Department Head Signature:

Contract Review Sheet

Intergovernmental Agreement **SO-6732-25 - Am2**

Title: **2025-27 Marine Law Enforcement Contract**

Contractor's Name: **Oregon State Marine Board**

Department: **Sheriff's Office** Contact: **Kristy Witherell**

Analyst: **Sandra Fixsen** Phone #: **(503) 373-4402**

Term - Date From: **July 1, 2025** Expires: **June 30, 2027**

Original Contract Amount: **$ 304,395.00** Previous Amendments Amount: **$ 30,000.00**

Current Amendment: **$ 63,193.50** New Contract Total: **$ 397,588.50** Amd% **31%**

Incoming Funds ☑ Federal Funds ☐ Reinstatement ☐ Retroactive ☑ Amendment greater than 25%

Source Selection Method: **ORS190 Intergovernmental Agreement**

Description of Services or Grant Award

Amendment #2 adds $63,193.50 in funding for FY 26-27, increasing the fiscal year total to $215,391.00. This includes a $65,000 passthrough grant from the U.S. Coast Guard. The revised IGA total is now $397,588.50 through June 30, 2027.

Amendment #1 adds $30,000 in funding for the MCSO Marine Patrol. Of this total, $25,000 is derived from the Sheriff's Office sale of surplus equipment, including two jet skis, a boat, and two trailers. The remaining $5,000 is provided by the Oregon State Marine Board (OSMB) as incoming funds to facilitate the purchase of a Stryker Jet boat and associated accessories.

Marion County Sheriff's Office shall provide law enforcement services related to recreational boating in Oregon. Oregon State Marine Board provides funding to for these services. The total amount of this agreement is $304,395.00 through June 30, 2027.

Desired BOC Session Date:	**5/20/2026**	Contract should be in DocuSign by:	**4/29/2026**
Agenda Planning Date	**5/7/2026**	Printed packets due in Finance:	**5/5/2026**
Management Update	**5/5/2026**	BOC upload / Board Session email:	**5/6/2026**

BOC Session Presenter(s) **Commander Bernards** Code: **Y**

REQUIRED APPROVALS

Sandra L. Fixsen	04/28/2026	Kristy Witherell (Apr 28, 2026 13:59:48 PDT)	04/28/2026
Finance - Contracts	Date	Contract Specialist	Date
Andrew Stittenderf	04/30/2026		
Legal Counsel	Date	Chief Administrative Officer	Date

AMENDMENT No. 002 TO
OREGON STATE MARINE BOARD
INTERGOVERNMENTAL COOPERATIVE AGREEMENT
NO. 250-2527MARION-000
for fiscal year 2025-2027

This is Amendment No. 002 (Amendment) to the Intergovernmental Cooperative Agreement Between Oregon State Marine Board and Marion County dated as of July 1, 2025 (as amended, the "Agreement"), is entered into between the State of Oregon acting by and through its Oregon State Marine Board ("OSMB") and Marion County ("County").

NOW, THEREFORE, in consideration of the premises, covenants and agreements contained herein and other good and valuable consideration of the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. This amendment shall become effective on the date this amendment has been fully executed by every party.

2. The agreement is hereby amended as follows (new language is indicated by **underlining and bold** and deleted language is indicated by ~~strikethrough~~):

   2.1. Section 7.1 of the Agreement is amended to read:

   OSMB shall, upon receipt and approval of expenditure documentation, pay the county an amount not to exceed the following amounts for the agreement term

Year 1 (ie. July 1, 2025 – June 30, 2026)	$157,197.50
Year 2 (ie. July 1, 2026 – June 30, 2027)	~~$152,197.50~~ **$215,391.00**

   2.2. Attachment 1 of the Agreement is replaced with Revised Attachment 1, in the form attached to this Amendment as Attachment 1, effective on the Amendment Effective Date.

3. Except as amended hereby, all terms and conditions of the Agreement remain in full force and effect.

4. This Amendment may be executed in any number of counterparts, all of which when taken together shall constitute one agreement binding on all parties, notwithstanding that all parties are not signatories to the same counterpart. Each copy of this Amendment so executed shall constitute an original.

IN WITNESS WHEREOF, the parties hereto have executed this amendment as of the dates set forth below their respective signatures.

Signatures:

_____

State Marine Board **Date**

See Marion County Signature Page

_____

Marion County **Date**

In compliance with the Americans with Disabilities Act, this document is available in alternate formats such as Braille, large print, audio recordings, Web-based communications, and other electronic formats. To request an alternate format, please send an email to Alisha.Cataldo@boat.oregon.gov or call (503) 983-0924 (voice) or (503) 877-7897 (TTY) to arrange for the alternative format.

REVISED ATTACHMENT 1

Information Required by 2 CFR 200.332(b)(1)

1. Recipient Name: Marion County
2. Recipient's Unique Entity Identifier (UEI): FCG7FDMD87L9
3. Federal Award Identification Number (FAIN): 70Z02326MO0007058
4. Federal award date: 02/09/2026
5. Subaward period of performance: Start Date: 07/01/2026 End Date: 06/30/2027
6. Subaward budget period: Start Date: 07/01/2026 End Date: 06/30/2027
7. Amount of subaward: $65,000
8. Federal award project description: Provide funding to conduct enforcement related to recreational boating in Oregon.
9. Name of federal awarding agency, pass-through entity, and contact information for awarding official of the pass-through entity:

    9.1. Name of federal awarding agency: United States Coast Guard

    9.2. Name of pass-through entity: Oregon State Marine Board

    9.3. Contact information for awarding official of pass-through entity:

    Brian Paulsen, Boating Safety Manager

    435 Commercial Street NE Suite 400, Salem OR, 97301

    Brian.Paulsen@boat.oregon.gov
10. Assistance Listings number and Title: 97.012 / Boating Safety Financial Assistance
11. Is award research and development? Yes No
12. Indirect cost rate for the Federal award: 0%
13. Is the 15% de minimis rate being used per §200.414? Yes No

SIGNATURE PAGE FOR
2025-27 MARINE LAW ENFORCEMENT CONTRACT - SO-6732-25 AMD 2
between
MARION COUNTY and OREGON STATE MARINE BOARD

MARION COUNTY SIGNATURES
BOARD OF COMMISSIONERS:

Chair	Date
Commissioner	Date
Commissioner	Date

Authorized Signature:		04/29/2026
	Department Director or designee	Date
Authorized Signature:	Jan Fritz Jan Fritz (Apr 30, 2026 10:41:49 PDT)	04/30/2026
	Chief Administrative Officer	Date
Reviewed by Signature:		04/30/2026
	Marion County Legal Counsel	Date
Reviewed by Signature:		04/28/2026
	Marion County Contracts & Procurement	Date

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Tax Office

Title: Property tax refund for City of Keizer

Management Update/Work Session Date: _____ **Audio/Visual aids** ☐

Time Required: 15 min. **Contact:** Bri Anna Kelley, Tax Collector **Phone:** ext. 2247

Requested Action: Approve an order authorizing property tax refund for City of Keizer.

Issue, Description & Background: The Property Value Appeals Board (PVAB) lowered the real market value of tax account 519938 (Volcano Stadium) for the 2025-26 tax year. ORS 311.806(1) requires the county governing body to issue refunds in situations like this. The total amount of the refund due (plus statutory interest) is $34,318.12. The Board has delegated authority to issue tax refunds under $20,000 to the tax collector; all others must go to the Board for approval.

Financial Impacts: The amount of the refund (with interest through 6/15/26) is $34,318.12.

Impacts to Department & External Agencies: None, beyond the processing of the refund itself.

List of attachments: 1. Property tax petition for refund of City of Keizer, with supporting documentation. 2. Board Order.

Presenter: Bri Anna Kelley, Tax Collector

Department Head Signature: Natasha McVey

BEFORE THE BOARD OF COMMISSIONERS

FOR MARION COUNTY, OREGON

In the matter of approving property)
tax refund as submitted by the)
Marion County Tax Collector.)

Order No.

This matter came before the Board of Commissioners upon the recommendation of the Marion County Tax Collector regarding a tax refund petition on account no. 519938, attached hereto and incorporated herein by this reference; and

WHEREAS, the Board finds that the petitioner has demonstrated that a tax refund, including interest, is due in the amount set forth on the petition; and

WHEREAS, the Board finds that the Marion County Tax Collector approved the refund, including interest, as to the amount; and

WHEREAS, the Board finds that Marion County Legal Counsel has approved the refund, including interest, as to legal form,

NOW, THEREFORE, IT IS HEREBY ORDERED that a refund, including interest, be made to the petitioner on account no. 519938 in the amount indicated on the petition.

DATED this _____ day of _____, 20___.

MARION COUNTY BOARD OF COMMISSIONERS

_____
Chair

_____
Commissioner

_____
Commissioner

Tax Account: **519938**

MARION COUNTY BOARD OF COMMISSIONERS
C/O MARION COUNTY TAX COLLECTOR
PO BOX 2511
SALEM, OR 97308-2511

REFUND PETITION

PETITIONER: CITY OF KEIZER
PO BOX 21000
KEIZER OR 97307

Petitions the Board of County Commissioners for a refund under ORS 311.806 of taxes paid on Real property.

Tax Account	Tax Year	Tax Amount	Interest through 06/15/26	Refund Amount
519938	2025	$32,073.01	$2,245.11	$34,318.12

REASON FOR REFUND:
PVAB #25-046 RMV REDUCED DUE TO IMPROVEMENT RMV & EXCEPTION REDUCTION; ADJUDICATED THROUGH 2030-31. END ADJUDICATION 01/01/2031.

Signed: See Attached File

Petition verified and refund recommended:

[signature], Marion County Tax Collection Dept. Date 4/29/2026

Approved as to Form
Scott A. Nov
4/29/26
Legal Counsel

Marion County Tax Collector
Refund #15387 Summary

Tax Id 519938

Account # 519938 **Roll** R **Code Area** 24200

Owner
CITY OF KEIZER
BASEBALL STADIUM
PO BOX 21000
KEIZER OR 97307

Payee
CITY OF KEIZER
PO BOX 21000
KEIZER OR 97307

Lender

Situs 6700 FIELD OF DREAMS WAY NE KEIZER OR 97303

Reason PVAB

Refund Details

Year	Refund Amount	Refund Interest	Refund Total
2025	$32,073.01	$2,245.11	$34,318.12
Total	**$32,073.01**	**$2,245.11**	**$34,318.12**

Check # **Comment** PVAB; 2025-26 PROP TAXES

Tax History

Year	Tax Type	Total Due	Current Due	Original Due	Due Date
2025	ADVALOREM	($33,064.96)	($33,064.96)	$50,613.78	15-Nov-2025

Balance As Of 4/29/2026 **($33,064.96)**

Tax Adjustments

Year	Discount	Adv Interest	Tax Credit
2025	($991.95)	$0.00	$33,064.96

Payment History

R #	Year	Date	Payer	Amount

Comments BOC; CORRECT 2025-26 PVAB #25-046 RMV REDUCED DUE TO IMPROVEMENT RMV & EXCEPTION REDUCTION; ADJUDICATED THROUGH 2030-31. END ADJUDICATION 01/01/2031.

MARION COUNTY TAX COLLECTOR
Tax Voucher Listing

Tax Account # 519938
Account Status A
Roll Type Real

CITY OF KEIZER
BASEBALL STADIUM
PO BOX 21000
KEIZER OR 97307

Property ID 24200 063W250004102
Situs Address
6700 FIELD OF DREAMS WAY NE KEIZER OR 97303

Assessment and Transaction Information

Assess Trans # 5321842
Created By: smckinney

	Previous	New	Change
Code Area	24200	24200	
AV	5,079,720	3,072,510	(2,007,210)
M5	5,079,720	3,072,510	(2,007,210)
SA	0	0	0
RFPD	5,079,720	3,072,510	(2,007,210)
Exempt	0	0	0
Tax Amount	$83,678.74	$50,613.78	($33,064.96)

Comments

519938, ONLY: CORRECT 2025-26 PVAB #25-046 RMV REDUCED DUE TO IMPROVEMENT RMV & EXCEPTION REDUCTION; ADJUDICATED THROUGH 2030-31/OFF ADJUDICATION 1/1/2031.

Tax Detail Information

Tax Trans # 5321842
Completed Date 04/29/2026 **By** nmcvey
Year 2025
Trans Info ADVALOREM IMPOSED BOPTA - ORS 309.110-120

Tax Change	($33,064.96)
Discount	$0.00
Interest	$0.00
State Interest	$0.00
Interest Paid	$0.00
Payment Received	$0.00

Remarks

519938, ONLY: CORRECT 2025-26 PVAB #25-046 RMV REDUCED DUE TO IMPROVEMENT RMV & EXCEPTION REDUCTION; ADJUDICATED THROUGH 2030-31/OFF ADJUDICATION 1/1/2031.

SUMMARY OF TAX ACCOUNT

MARION COUNTY TAX COLLECTOR

P.O. BOX 2511

SALEM, OR 97308

(503) 588-5215

29-Apr-2026

CITY OF KEIZER
BASEBALL STADIUM
PO BOX 21000
KEIZER OR 97307

Tax Account #	519938	Lender Name	
Account Status	A	Lender ID	
Roll Type	Real	Property ID	24200 LEGACY 1-48743002
Situs Address	6700 FIELD OF DREAMS WAY NE KEIZER OR 97303	Interest To	Apr 29, 2026

Tax Summary

Tax Year	Total Due *	Taxes	Fees	Interest	Discount	Original Due	Due Date	Date Paid
2025	($33,064.96)	($33,064.96)	$0.00	$0.00	$0.00	$50,613.78	Nov 15, 2025	Dec 3, 2025
2024	$0.00	$0.00	$0.00	$0.00	$0.00	$47,438.79	Nov 15, 2024	Nov 22, 2024
2023	$0.00	$0.00	$0.00	$0.00	$0.00	$46,487.90	Nov 15, 2023	Nov 22, 2023
2022	$0.00	$0.00	$0.00	$0.00	$0.00	$46,481.56	Nov 15, 2022	Nov 18, 2022
2021	$0.00	$0.00	$0.00	$0.00	$0.00	$46,354.57	Nov 15, 2021	Nov 19, 2021
2020	$0.00	$0.00	$0.00	$0.00	$0.00	$74,483.34	Nov 15, 2020	Nov 17, 2020
2019	$0.00	$0.00	$0.00	$0.00	$0.00	$71,574.84	Nov 15, 2019	Nov 21, 2019
2018	$0.00	$0.00	$0.00	$0.00	$0.00	$68,644.52	Nov 15, 2018	Nov 23, 2018
2017	$0.00	$0.00	$0.00	$0.00	$0.00	$61,569.63	Nov 15, 2017	Nov 13, 2017
2016	$0.00	$0.00	$0.00	$0.00	$0.00	$58,972.48	Nov 15, 2016	Nov 22, 2016
2015	$0.00	$0.00	$0.00	$0.00	$0.00	$59,656.44	Nov 15, 2015	Nov 19, 2015
2014	$0.00	$0.00	$0.00	$0.00	$0.00	$57,205.34	Nov 15, 2014	Nov 19, 2014
2013	$0.00	$0.00	$0.00	$0.00	$0.00	$55,533.95	Nov 15, 2013	Nov 20, 2013
2012	$0.00	$0.00	$0.00	$0.00	$0.00	$54,143.03	Nov 15, 2012	Nov 19, 2012
2011	$0.00	$0.00	$0.00	$0.00	$0.00	$51,723.93	Nov 15, 2011	Nov 17, 2011
2010	$0.00	$0.00	$0.00	$0.00	$0.00	$49,372.39	Nov 15, 2010	Nov 17, 2010
2009	$0.00	$0.00	$0.00	$0.00	$0.00	$48,952.42	Nov 15, 2009	Nov 18, 2009
2008	$0.00	$0.00	$0.00	$0.00	$0.00	$46,078.29	Nov 15, 2008	Nov 20, 2008
2007	$0.00	$0.00	$0.00	$0.00	$0.00	$45,382.83	Nov 15, 2007	Nov 20, 2007
2006	$0.00	$0.00	$0.00	$0.00	$0.00	$44,728.57	Nov 15, 2006	Nov 16, 2006
2005	$0.00	$0.00	$0.00	$0.00	$0.00	$43,056.77	Nov 15, 2005	Nov 15, 2005
2004	$0.00	$0.00	$0.00	$0.00	$0.00	$43,154.41	Nov 15, 2004	Nov 22, 2004
2003	$0.00	$0.00	$0.00	$0.00	$0.00	$40,817.79	Nov 15, 2003	Nov 12, 2003
2002	$0.00	$0.00	$0.00	$0.00	$0.00	$38,711.23	Nov 15, 2002	Nov 15, 2002
2001	$0.00	$0.00	$0.00	$0.00	$0.00	$37,845.27	Nov 15, 2001	Oct 30, 2001
2000	$0.00	$0.00	$0.00	$0.00	$0.00	$36,348.28	Nov 15, 2000	Nov 8, 2000
1999	$0.00	$0.00	$0.00	$0.00	$0.00	$35,846.20	Nov 15, 1999	Nov 9, 1999
1998	$0.00	$0.00	$0.00	$0.00	$0.00	$34,450.28	Nov 15, 1998	Nov 17, 1998
1997	$0.00	$0.00	$0.00	$0.00	$0.00	$31,296.35	Dec 15, 1997	Aug 29, 1998
Total	($33,064.96)	($33,064.96)	$0.00	$0.00	$0.00	$1,426,925.18		

Minimum Payments Due On				
	2/17/2026	**$0.00**	4/29/2026	**$0.00**

*** Taxes + Fees + Interest - Discount**

MARION COUNTY BOARD OF COMMISSIONERS

Board Session Agenda Review Form

Meeting date: May 20, 2026

Department: Public Works

Title:	Public Hearing for Zone Change/Comprehensive Plan Change 26-001/TIBA, INCORPORATED
Management Update/Work Session Date:	N/A **Audio/Visual aids** ☐
Time Required:	15 min **Contact:** Alex Seifer **Phone:** 503-566-4162
Requested Action:	Staff recommends the application be approved. Other options for consideration are: 1. Continue the public hearing. 2. Close the public hearing and leave the record open, to deliberate at a later date. 3. Close the public hearing and approve, or modify the request. 4. Remand the matter back to the Hearings Officer.
Issue, Description & Background:	TIBA, INCOPORATED submitted an application to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial, with an exception to statewide planning Goal 3 (Agricultural Land) on a 24.88-acre parcel located at 5355 Gaffin Road SE, Salem. The Marion County Hearings Officer held a duly noticed hearing on the application on April 16, 2026. On April 28, the Hearings Officer issued a recommendation to approve Zone Change/Comprehensive Plan Change 26-001/TIBA, INCORPORATED. As a part of the land use process, the Marion County Board of Commissioners must hold a public hearing on the matter and issue a decision.
Financial Impacts:	None
Impacts to Department & External Agencies:	None
List of attachments:	HO Recommendation
Presenter:	Alex Seifer
Department Head Signature:	for Brandon Reich

BEFORE THE MARION COUNTY HEARINGS OFFICER

In the Matter of the Application of	)	Case No. 26-001
	)	
	)	**ZONE CHANGE AND COMPREHENSIVE**
TIBA, INCORPORATED	)	**PLAN CHANGE**

RECOMMENDATION

I. Nature of the Application

This matter is before the Marion County Hearings Officer on the Application of TIBA, INCORPORATED to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial on 24.88-acres, located at 5355 Gaffin Road SE, Salem (T8S; R2W; Section 05A; tax lot 100).

II. Relevant Criteria

The standards and criteria relevant to this Application are found in the Marion County Comprehensive Plan (Rural Development Policies, Rural Services Policy), and the Marion County Code (MCC) Title 17, especially MCC 17.123 (Zone Change), MCC 17.136 (Exclusive Farm Use), and MCC 17.145 (Commercial Zone). Policies relevant to this Application are also found in the State of Oregon Statewide Planning Goals (particularly Goal 3), and Oregon Administrative Rules 660, Division 4 (Goal Exception Process).

III. Public Hearing

A public hearing was held on this matter on April 16, 2026. The Planning Division file was made part of the record. The following persons appeared and provided testimony on the Application:

1.	Alexander Seifer	Marion County Planning Division
2.	Lindsey King (PNW Planning)	Representative for Applicant
3.	Ray Baker	In Support of Application
4.	Jason Briggs	General Comments

No documents were presented, marked, or entered into the record as exhibits. No objections were raised as to notice, jurisdiction, conflicts of interest, or to evidence or testimony presented at the hearing.

IV. Executive Summary

The matter before the hearings officer is the application of TIBA, INCORPORATED to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial on 24.88-acres, located at 5355 Gaffin Road SE, Salem.

The subject property previously had a hay compaction operation, but operations ceased before 2020. No immediately adjacent parcels except perhaps one to the west are in farm production. This

parcel appeared to have bee hives, but witness testimony indicated that there are no active hives. Gaffin Road is located near SR22 and Culver Drive. The Amazon warehouse and delivery facility and Salem-Keizer School District Transportation Center are located on Gaffin Road and are established industrial and commercial uses.

There are close to 185-acres of commercial or industrial zoned parcels in the area between Culver Drive and SR22, as compared to about 150-acres of SA zoned parcels, which indicates that the majority of the local area is dedicated to industrial or commercial uses. Approval of the zone change would make the subject property consistent with most of the zoning and match existing development.

It is hereby found that Applicant has met the burden of proving the applicable standards and criteria for a zone change and comprehensive plan change to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial on 24.88-acres, located at 5355 Gaffin Road SE.

The Hearing Officer recommends that the Marion County Board of Commissioners GRANT the Application subject to certain conditions that are necessary for public health, safety, and welfare.

V. Findings of Fact

The Hearings Officer, after careful consideration of the testimony and evidence in the record, issues the following finding of fact:

1. This matter is the Application of TIBA Inc to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial on 24.88-acres, located at 5355 Gaffin Road SE, Salem (T8S; R2W; Section 05A; tax lot 100).

2. The property is located on the north side of Gaffin Rd SE, approximately 2,900 feet northeast of Gaffin Road's interchange onto SR22. The property was the subject of two previous land use cases, CU92-018 and CU20-038, and is legal for land use purposes.

3. Properties directly to the west and north are zoned SA (Special Agriculture), which contain a mix of small acreage residences and small-scale farming operations, essentially all being less than 15-acres in size. All other adjacent parcels are located within Salem City limits and developed with industrial uses. These include an Amazon Locker facility, RV storage, and a Salem-Keizer School District transportation center.

4. The Marion County Planning Division requested comments on the proposal from various government agencies. The following comments were received:

   Marion County Public Works Land Development and Engineering (LDEP) provided the following comments:

   ENGINEERING ADVISORIES

Applicant should also be aware of the following:

A. PW Engineering has no action items for the proposed Zone Change itself.

B. The following are PW Engineering advisories for future further development:

- A storm water detention system had been designed, permitted (#UR05-055) and constructed serving the two rear (northern) buildings. Based upon review of aerial imagery, the detention system has likely been either partially or completely obliterated as a result of undocumented land clearing and grading activities over time. Future development will need to address recouping any loss of that system as well as for any new development.

- The subject property is situated within the County's Stormwater Management Area (SWMA). Future development, as well as any required recoupment of the original system described above, will need to include water quality treatment as part of an overall stormwater system.

- Marion County has jurisdiction over construction erosion permitting for total ground disturbances within the SWMA ranging from 0.25-acre to just under 5-acres.

- Authorization for permanent full-time Culver Road access is not anticipated. However, secondary, gated fire-only access to Culver Road could potentially be authorized if required by the local fire department.

- Transportation System Development Charges (SDCs) will be assessed at the time of application for building permits, including for any required Change-in-Occupancy of an existing structure.

- County GIS depicts a mapped seasonal ditch traversing the subject property that appears from review of aerial imagery to have been realigned in conjunction with the aforementioned undocumented grading activities.

Marion County Building commented the following: "No Building Inspection concerns. Permit(s) are required to be obtained prior to any proposed development of structures and/or utilities installation on private property. Permit history appears to indicate the existing structures on the subject property were properly permitted as commercial agricultural structures. A more thorough review of these records can be performed to provide a more formal determination of these structures, if necessary. Please contact Marion County Building Inspection to request this information."

Friends of Marion County: provided comments in opposition to the proposal. The comments argue that the Applicants provided insufficient evidence to demonstrate the parcel cannot be farmed and that there will be a cascading effect of committing additional resource lands in the area to non-resource use.

At the time of this staff report all other contacted agencies either failed to respond or stated no objection to the proposal.

5. Alex Seifer presented the staff report and stated that there have been two prior land use actions with respect to the subject property, CU 92-018 and CU 20-038. Mr. Seifer stated that the neighboring parcel does not have active farming operations. Mr. Seifer also noted that there is a large Amazon facility near the subject property which has already brought more intensive uses to the area. The majority of the parcel is developed and any additional development would not be expected to have any additional impact on the surrounding agricultural and rural residential lands. Mr. Seifer stated that Marion County Planning recommends approval of the application subject to recommended conditions of approval.

6. Lindsey King, Pacific Northwest Planning, Applicant Representative, testified at the hearing. Ms. King stated that there are no farming operations on the subject property, and that the property was permanently disqualified for tax deferral more than twenty years ago. 17 of the 24 acres are dedicated to commercial use, and the remainder of the property includes mapped wetlands and poor soils. Ms. King stated that the proposal qualifies for an irrevocably committed and physically developed exception to Statewide Goal 3.

7. Ray Baker testified at the hearing in favor of the application. Mr. Baker addressed the adjacent property where bees were raised at one time. Mr. Baker indicated that the bees were diseased, and that there do not appear to be any active hives. Mr. Baker indicated that there may be a few sheep in the pasture, there is no active farming occurring on adjacent property.

8. Jason Briggs testified at the hearing. Mr. Briggs presented general comments and is not necessarily in favor of or opposed to the application. Mr. Briggs noted that there are lots of trucks on Gaffin Road, and that urban growth is happening with the impact of the Amazon facility. Mr. Briggs addressed use of Culver Road for access. Mr. Briggs also noted concerns about wetlands and water detention with road improvements.

9. Alex Seifer responded to Mr. Briggs' concerns and indicated that MCLDEP provided comments about water detention and provided comments regarding future development. Mr. Seifer indicated that it is not anticipated that access would be off Culver except as an emergency or secondary exit.

V. Additional Findings of Fact and Conclusion of Law

1. This is a recommendation to the Marion County Board of Commissioners (BOC). The BOC is the final decision-making authority.

2. Applicant has the burden of proving compliance with all applicable criteria as explained in *Riley Hill General Contractor, Inc. v. Tandy Corporation*, 303 Or 390, 394-395(1987).

"Preponderance of the evidence" means the greater weight of evidence. It is such evidence that when weighed with that opposed to it, has more convincing force and is more probably true and

accurate. If, upon any question in the case, the evidence appears to be equally balanced, or if you cannot say upon which side it weighs heavier, you must resolve that question against the party upon whom the burden of proof rests. (Citation omitted).

3. MCC 17.123.020 provides that a quasi-judicial zone change may be initiated by a property owner consistent with the application requirements of MCC 17.119.020 and 17.119.025.

The proposed zone change has been initiated by the legal property owner. The application includes the required ownership information, completed application materials, and written findings addressing the applicable approval criteria. The request has been properly initiated and is before the County for review through the quasi-judicial process.

GOAL EXCEPTION

4. Land use applications of this nature must be consistent with Statewide Planning Goals. In this specific case, the subject parcel is covered by Statewide Goal 3 (Agriculture Land). There is a mechanism, however, for not applying the Goal to areas with certain characteristics. This mechanism is the Goal exception process that requires specific findings justifying why such lands are not available for resource use. There are three types of exceptions to Statewide Goals that may be granted. The first two are based on the concept that the subject property is "physically developed" or "irrevocably committed" to a certain use. The third is a "reasons" exception where there is a demonstrated need for the proposed use or activity. In this case, the applicant indicated that the proposal qualifies for an irrevocably committed and physically developed exception.

STATEWIDE PLANNING GOALS

5. Proposals to amend the comprehensive plan must be consistent with the Statewide Planning Goals:

Goal 1: Citizen Involvement. The notice and hearings process provides an opportunity for citizen involvement. The goal is satisfied.

Goal 2: Land use Planning. The subject application would change the zoning. The Hearings Officer makes a recommendation to the Marion County Board of Commissioners who will make the decision on behalf of the County. Marion County Planning division requested comments from various governmental agencies, and their comments are included. The goal is satisfied.

Goal 3: Agricultural Lands. Applicant seeks an exception, which is addressed in detail herein.

Goal 4: Forest Lands. The subject property has not been determined to be forest land. This goal does not apply.

Goal 5: Open Spaces, Scenic and Historic Areas and Natural Resources. The Marion County Comprehensive Plan does not identify any significant open spaces, scenic and historic areas and natural resources on the subject property.

Goal 6: Air, Water and Land Resources Quality. The subject property is not within an identified air quality area. The property is not located in the Sensitive Groundwater Overlay Zone. No activities have been proposed on the property that would use significant amounts of groundwater. Any single commercial use of water using less than 5,000 gallons per day is exempt from water right permitting requirements of the Oregon Department of Water Resources, as long as the water is used for a "beneficial purpose without waste" and may be subject to regulation in times of water shortage.

Goal 7: Areas Subject to Natural Disasters and Hazards. The subject property is not within an identified floodplain or geologic hazards area. This goal is not applicable.

Goal 8: Recreation Needs. No Goal 8 resources are identified on the property. This goal does not apply.

Goal 9: Economic Development. Because the proposal is a rural commercial designation supported by a Goal 3 exception and does not involve urbanization or expansion of urban services, it is consistent with Goal 9.

Goal 10: Housing. This goal applies to housing within an urban growth boundary. This goal does not apply.

Goal 11: Public Facilities and Services. The subject parcels do not require an extension of services with a C (Commercial) zone use, this goal is satisfied.

Goal 12: Transportation. If the zone is changed to Commercial, the existing development will not have a significant impact on the roadway system in this area because of the minimal number of trips associated with the existing uses and the adequacy of the roadway to accommodate the probable level of additional traffic. ODOT did not identify any concerns with the proposal.

Goal 13: Energy Conservation. The proposal will result in an increase in commercial activity in the area and will require additional energy consumption. However, the increase in energy consumption will not be beyond what can be handled by existing infrastructure. The presence of a substation and the ability of the existing infrastructure to handle more energy intensive uses on neighboring properties demonstrate the sufficiency of the system. This goal is met.

Goal 14: Urbanization. Applicant proposes to rezone Special Agriculture to Commercial outside of the urban growth boundary. Goal 14 does not apply.

Goals 15-19 are not applicable because the subject property is not within the Willamette River Greenway, or near any ocean or coastal-related resources.

COMPREHENSIVE PLAN AMENDMENT

6. All Comprehensive Plan changes are subject to review by the State Department of Land Conservation and Development (DLCD). The DLCD was notified as required by State Law and did not comment prior to this report being prepared.

7. The Marion County Comprehensive Plan (MCCP) establishes procedures to be used when considering plan amendments. Plan changes directly involving 5 or fewer property owners will be considered a quasi-judicial amendment. The amendment will be reviewed by the zone change procedures established in MCC 17.123. A plan amendment of this type may be processed simultaneously with a zone change request with the zone change procedure outlined in Chapter 17.123 of the MCRZO. The subject property is comprised of one tax lot with one property owner. The proposal can therefore be considered under the quasi-judicial amendment process.

8. The MCCP does not contain specific review criteria for plan amendments; however, any amendment must be consistent with its applicable goals and policies. The goals and policies that apply in this case are located in the Rural Development Chapter and include policies for areas designated Commercial.

9. Rural Service Policies:

   A. *"Strip-type" commercial or residential development along roads in rural areas shall be discouraged.*

   B. *Rural industrial, commercial, and public uses should be limited primarily to those activities that are best suited to a rural location and are compatible with existing rural developments and agricultural goals and policies.*

   No strip-type development is proposed. The majority of the parcel is currently developed, and any additional development would not be expected to have any additional impact on surrounding agricultural and rural residential lands. The applicant did not show any additional proposed development on the site plan but indicated that the proposal will utilize the existing structures developed on the property for previously approved commercial use. Gaffin Road is a paved Marion County jurisdiction road that changes to a City of Salem jurisdiction road at the end of the subject parcel's frontage along Gaffin Rd. Access is currently granted and controlled by Marion County LDEP. Currently there are established industrial uses that generate significant traffic located on the city jurisdiction parcels to the southeast, primarily in the form of an Amazon Locker facility and Salem-Keizer School District Transportation Center. The proposed change to commercial zoning will have an impact on the traffic on Gaffin Rd, but the area is already commercially developed with roads that can handle the expected increases in traffic. Marion County LDEP has not identified any concerns and not requested any road upgrades or a TIA, therefore indicating the existing rural road development is suited for the proposal. The rural Commercial zone permits uses that do not require public facilities such as sewer or water in order to allow for commercial development outside of urbanized areas, allowing it to be in harmony with Goal 14. As such, the new zone will restrict new uses to only those that can be supported without requiring connections to utilities and services found only in urban areas.

Goal 3 Exception

10. OAR 660-004-0018 (2) requires that "physically developed" and "irrevocably committed" exceptions to goals, plan, and zone designations shall authorize a single numeric minimum lot size and shall limit uses, density, and public facilities and services to those:

A. That are the same as the existing land uses on the exception site;

B. That meet the following requirements:

i. The rural uses, density, and public facilities and services will maintain the land as "Rural Land" as defined by the goals and are consistent with all other applicable Goal requirements; and

ii. The rural uses, density, and public facilities and services will not commit adjacent or nearby resource uses to nonresource use as defined in OAR 660-004-0028; and

iii. The rural uses, density, and public facilities and services are compatible with adjacent or nearby resource uses;

C. For which the uses, density, and public facilities and services are consistent with OAR 660-022-0030, 'Planning and Zoning of Unincorporated Communities', if applicable, or

D. That are industrial development uses, and accessory uses subordinate to the industrial development, in buildings of any size and type, provided the exception area was planned and zoned for industrial use on January 1, 2004, subject to the territorial limits and other requirements of ORS 197.713 and 197.714.

A majority of the subject parcel is currently developed. Applicant's analysis determined that approximately 17 of the 24.88 acres are dedicated to existing commercial use. It is not within an unincorporated community and is not in industrial use. Marion County has adopted a rural commercial zone which has been acknowledged as complying with Goal 14, Urbanization. The zone ensures that rural uses will not exceed density limitations on rural land and will not commit rural uses to requiring an urban level of public facilities. The commercial uses which would be allowed under Marion County's Commercial zone would be able to be supported on solely a rural level of public services, including rural septic service, and would be similar to the types of uses found in the surrounding land to the east, which is zoned for industrial uses by the City of Salem. While there are parcels to the north and west that are zoned Special Agriculture, because of the existing development in the immediate area, most in the vicinity are in residential or commercial use and are not being farmed or are being farmed at a small scale. The property cannot be farmed in conjunction with any other parcels in the area easily, as the portions of the subject property abutting neighboring farm uses consist of hydric soils not suitable for commercial agriculture or are the sections of the property developed with the existing commercial use. No urban public services will be needed to serve the site. The parcels in the area already consist of commercial or residential use. Based on the evidence and findings provided by Applicant, the proposal meets the criteria under the above section.

11. OAR 660-004-028 specifies that a local government may adopt an exception to a goal when the land subject to the exception is irrevocably committed to uses not allowed by the applicable goal because existing adjacent uses and other relevant factors make the uses allowed by the applicable

goal impracticable. It further stipulates that whether land is irrevocably committed depends on the relationship between the exception area and the adjacent lands. The findings for a committed exception, therefore, must address the following:

A. The characteristics of the exception area;

B. The characteristics of the adjacent area and the ands adjacent to it; and

C. The relationship between the exception area and the lands adjacent to it; and

D. The other relevant factors set forth in OAR 660-04-028(6).

OAR 660-004-028(6) referenced above indicates that findings of fact for a committed exception shall address the following factors:

A. Existing adjacent uses;

B. Existing public facilities and services (water and sewer lines, etc.);

C. Parcel size and ownership patterns of the exception area and adjacent lands:

(i) Consideration of parcel size and ownership patterns shall include an analysis of how the existing development pattern came about and whether findings against the Goals were made at the time of partitioning or subdivision. Past land divisions made without application of the Goals do not in themselves demonstrate irrevocable commitment of the exception area. Only if development (e.g., physical improvements such as roads and underground utilities) on the resulting parcels or other factors makes unsuitable their resource use or the resource use of nearby lands can the parcels be considered to be irrevocably committed. Resource and non-resource parcels created pursuant to the applicable goals shall not be used to justify a committed exception. For example, the presence of several parcels created for non-farm dwellings or an intensive commercial agricultural operation under the provisions of an exclusive farm use zone cannot be used to justify a committed exception for land adjoining those parcels.

(ii) Existing parcel sizes and contiguous ownership shall be considered together in relation to the land's actual use. For example, several contiguous undeveloped parcels (including parcels separated only by a road or highway) under one ownership shall be considered as one farm or forest operation. The mere fact that small parcels exist does not in itself constitute irrevocable commitment. Small parcels in separate ownerships are not likely to be irrevocably committed if they stand alone amidst larger farm or forest operations, or are buffered from such operations.

D. Neighborhood and regional characteristics;

E. Natural or manmade features or other impediments separating the exception area from adjacent resource land. Such features or impediments include but are not limited to roads, watercourses, utility lines, easements, or rights-of-way that effectively impede practicable resource use of all or part of the exception area;

F. Physical Development according to OAR 660-004-025; and

G. Other relevant factors.

OAR 660-004-0028 requires showing that farm use is impracticable, not merely inconvenient. Applicant has addressed the characteristics and relationship of the exception area and the lands adjacent to it, consistent with OAR 660-004-028, as shown in 12 (A), (B), (C) and (D) above. The subject parcel is bordered on all sides by features that act as barriers to other farmland in the area. To the northeast is the right-of-way for Culver Drive and to the southwest is the right-of-way for Gaffin Rd. Hay compaction on the subject property ceased approximately six years ago, and the buildings are in disrepair. To the southeast there are industrial parcels within the City of Salem that are developed with a substation and Amazon locker facility. The parcels to the west are still zoned SA and contain some farm uses, but most of these farm uses are small operations consisting of less than 10-acres. The beekeeping activities on the adjacent parcel are not active and there does not appear to be active farming. The rest of the parcels are either developed as small acreage residences or are made up of hydric soils with low viability for farm use. The soils on the subject parcel that border these SA zoned parcels are also hydric and are not desirable for farm use, further limiting potential for use with contiguous properties. There are close to 185-acres of commercial or industrial zoned parcels in the area between Culver DR and SR22, as compared to about 150-acres of SA zoned parcels, demonstrating that the majority of the local area is dedicated to industrial or commercial uses. If this zone change were to be approved, the subject property would be consistent with this zoning and match existing development that dominates the local area.

The subject property's relationship with other lands in the area is that it acts as a transitionary parcel between the smaller farm and residentially used parcels and the fully developed industrial and commercial parcels in the City of Salem's jurisdiction. While it contains open space, those undeveloped areas contain the most hydric soils and are the least suitable soils for farming in the area. The fact is that it is also significantly developed with structures that allow it to serve commercial uses and attempting to farm the subject parcel in conjunction with a neighboring property would require a specialized type of agricultural not requiring available soil.

As addressed above, the rural Commercial zone permits uses that do not require public facilities such as sewer or water.

Additionally, the subject property is the largest SA zoned parcel in the local area with the exception of a 91.10-acre parcel roughly 2,500 feet to the northeast. The applicant addresses this outlier in their analysis, showing that this one large parcel is significantly disconnected from the local area of the subject parcel by several small properties and 2 different road rights-of-way. The rest of the parcels in their area of analysis are around 10-acres or less in size and almost none are under contiguous ownership. Applicant states that none of the parcels in farm use

within their area of analysis constitute significant farming operations because of this parcel size and ownership pattern, further isolating the subject property as far as being able to incorporate into a larger farming operation.

With limited space available on the parcel for traditional farming methods, natural and development barriers to other farm parcels in the area, and the land use pattern in the immediate area consisting mostly of uses not involving commercial agriculture, the subject parcel is, through this confluence of factors, irrevocably committed to non-farm use. The criterion is met. The applicant argues that the exception area is characterized by existing development that is not being farmed due to soils and topography. No immediately adjacent parcels except one to the west are in farm production, and the one in farm production appears only to contain bee boxes and does not appear to utilize the soil for crop production. The property is bordered on the southwest and northeast by public roads and industrially zoned parcels to the southeast. The parcels to the northwest are either small parcels in residential use or contain a significant amount of hydric soils that make farming difficult (see Applicant's Exhibits 1, 2, and 4).

ZONE CHANGE

12. The requirements for zone changes are found in MCC (Marion County Code) 17.123.060 and include the following criteria:

A. The proposed zone is appropriate for the Comprehensive Plan land use designation on the property and is consistent with the goals and policies of the Comprehensive Plan and the description and policies for the applicable land use classification in the Comprehensive Plan; and

B. The proposed change is appropriate considering the surrounding land uses and the density and pattern of development in the area; and

C. Adequate public facilities, services, and transportation networks are in place, or are planned to be provided concurrently with the development of the property; and

D. The other lands in the county already designated for the proposed use are either unavailable or not as well suited for the anticipated uses due to location, size or other factors; and

E. If the proposed zone allows uses more intensive than uses in other zones appropriate for the land use designation, the new zone will not allow uses that would significantly adversely affect allowed uses on adjacent properties zoned for less intensive uses.

The Commercial zone is the only zone that implements the rural Commercial designation in the Marion County Comprehensive Plan (MCCP). The MCCP policies that address designating property as Commercial were addressed herein and the proposal is in compliance based on the evidence presented in the goal exception section of this report. The proposal is consistent with surrounding uses that comprise commercial, residential, and quasi-public uses on surrounding

lands. Based on the information submitted by Applicant, the criteria for a zone change are satisfied by the proposal.

VII. Recommendation

It is hereby found that Applicant has met the burden of proving the applicable standards and criteria for a zone change and comprehensive plan change to change the zone from SA (Special Agriculture) to C (Commercial) and to change the Comprehensive Plan designation from Special Agriculture to Commercial on 24.88-acres, located at 5355 Gaffin Road SE. The Hearings Officer recommends that the Marion County Board of Commissioners GRANT the Application subject to the following conditions that are necessary for the public health, safety, and welfare:

1. The applicant shall obtain all permits required by the Marion County Building Inspection Division, including any permits for septic.

2. All future development on the property must satisfy the specific development standards in the rural C zone, Chapter 17.145, and the general development standards found in chapter 17.112, 17.113, and 17.118 of the Marion County Code.

3. Landscaping or screening shall be provided in the manner described by MCC 17.145.090 (B) adjacent to property lines that abut Special Agriculture zones or other resource zones, in addition to residential zones, when new commercial development is proposed.

4. Applicants should contact Marion County Land Development and Engineering (503-584-7714) for additional Engineering Requirements and Advisories, listed in Finding of Fact No. 4 above, that may be required.

VIII. Referral

This document is a recommendation to the Marion County Board of Commissioners. The Board will make the final determination on this Application after holding a public hearing. The Planning Division will notify all parties of the hearing date.

DATED at Salem, Oregon, this 28th day of April, 2026.

Jill F. Foster

Jill F. Foster
Marion County Hearings Officer

CERTIFICATE OF MAILING

I hereby certify that I served the foregoing order on the following persons:

TIBA INC.
5355 Gaffin Rd. SE
Salem, OR 97317

Eric Kuenzi
3871 Langly St. SE
Salem, OR 97371

Ray Baker
1345 70th Ave.
Salem, OR 97317

Jason Briggs
5510 Colver Dr. SE
Salem, OR 97317

City: Salem OR. *(via email)*
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developmentservices@cityofsalem.net
planning@cityofsalem.net

Area Advisory Committee #AAC 1:
laulehines@gmail.com

Roger Kaye
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Salem, OR 97302

1000 Friends of Oregon
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Portland, OR 97204-2597

Pudding River Watershed Council *(via email)*
anna@puddingriverwatershed.org
cleanpuddingriver@gmail.com

County Agencies Notified:

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Tax Collector *(via email)*
NMcVey@co.marion.or.us

Surveyor's Office *(via email)*
KInman@co.marion.or.us

Fire District: *(via email)*
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Salem, OR 97301

Planning Division *(via email)*
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JShanahan@co.marion.or.us

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carrie.landrum@state.or.us
Mike.I.mccord@wrd.state.or.us
Gregorory.j.wacker@oregon.gov

By mailing to them copies thereof. I further certify that said copies were placed in sealed envelopes addressed as noted above, that said copies were deposited in the United States Post Office at Salem, Oregon, on the 28th day of April 2026 and that the postage thereon was prepaid.

Gayle Simons
Administrative Assistant to the
Hearings Officer