

Exhibit C

PREPARED FOR:

TIDAL NETWORK



SITE NAME:

PETERSBURG ZONE 01

SITE ADDRESS (E-911 TO BE VERIFIED)

1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY
 LATITUDE: 56° 48' 33.91" N
 LONGITUDE: 132° 56' 34.03" W
 PARCEL ID: XXX
 ZONING: PUBLIC USE

PETERSBURG POLICE DEPARTMENT:
 14 SOUTH NORDIC DRIVE
 PO BOX 329
 PETERSBURG, AK 99833
 PHONE: (907) 772-3838
 ATTN: NON-EMERGENCY

PETERSBURG VOLUNTEER FIRE DEPARTMENT:
 1200 HAUGEN DRIVE
 P.O. BOX 329
 PETERSBURG, AK 99833
 PHONE: (907) 772-3355
 ATTN: NON-EMERGENCY

COMMUNITY DEVELOPMENT:
 12 S NORDIC DRIVE
 P.O. BOX 329
 PETERSBURG, AK 99833
 (907) 772-5412
 EMAIL: LCABRERA@PETERSBURGAK.GOV
 ATTN: LIZ CABRERA

PERMIT INFORMATION



VICINITY MAP

JURISDICTION:
 PETERSBURG

STATE:
 ALASKA

TOWER TYPE:
 SELF-SUPPORT TOWER

TOWER HEIGHT:
 120' (130' TO HIGHEST APPURTENANCE)

NUMBER OF CARRIERS:
 0 EXISTING, 1 PROPOSED

USE:
 PROPOSED TELECOMMUNICATIONS TOWER AND UNMANNED GROUND EQUIPMENT

FLOOD INFO:
 SITE IS LOCATED WITHIN FEMA FLOOD MAP AREA 0200740001B DATED 06/01/1982 WITHIN FLOOD ZONE C.

PROJECT SUMMARY

DEVELOPER:
 CENTRAL COUNCIL OF THE TLINGIT AND HAIDA INDIAN TRIBES OF ALASKA (DBA TIDAL NETWORK)
 PO BOX 25500
 JUNEAU, AK 99802
 PHONE: (907) 538-8255
 ATTN: CHRIS CROPLEY

POWER PROVIDER:
 PETERSBURG MUNICIPAL POWER & LIGHT
 11 SOUTH NORDIC DRIVE
 PETERSBURG, AK 99833
 PHONE: (907) 772-5421
 ATTN: KARL HAGERMAN

PROJECT COORDINATOR:
 PIERSON WIRELESS
 7534 F STREET
 OMAHA, NE 68127
 PHONE: (402) 429-7660
 ATTN: JESSIE RICO

A/E CONSULTANT:
 KIMLEY-HORN AND ASSOCIATES, INC.
 11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: (770) 464-2523
 ATTN: CASEY ADAMSON, P.E. (AK)

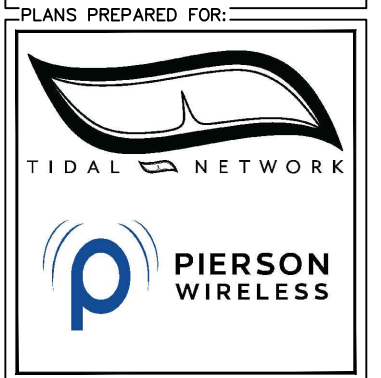
PROJECT CONTACTS

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G2	GENERAL NOTES
C0	AERIAL PLAN VIEW
C1	OVERALL SITE PLAN
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S10	ALT. STRUCTURAL DETAILS
E0	ELECTRICAL NOTES
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E2	COMPOUND UTILITY ROUTING PLAN
E3	METER RACK DETAILS
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E8	GROUNDING PLAN
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E10	GROUNDING DETAILS
E11	GROUNDING DETAILS

SHEET INDEX

PROJECT INFORMATION:
 SITE NAME:
 PETERSBURG ZONE 01
 SITE No.: PSG-Z01

1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:

Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
 WWW.KIMLEY-HORN.COM

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PRELIMINARY
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KHA PROJECT NUMBER:
 017619024

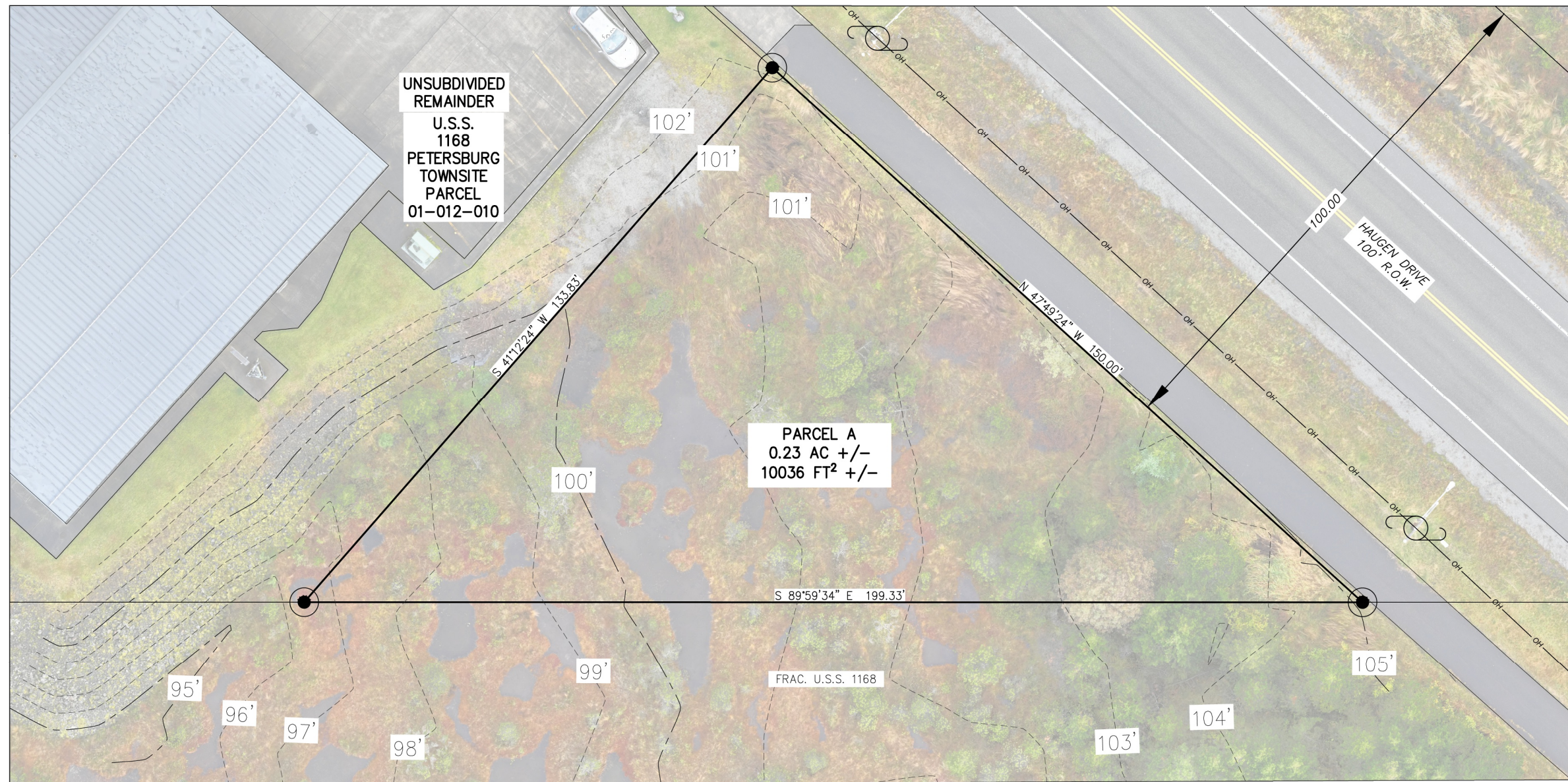
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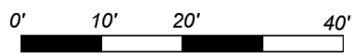
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SCALE 1"=10'

THIS DRAWING MAY BE REDUCED,
VERIFY SCALE BEFORE USING



LEGEND

- UNSURVEYED
- SURVEYED
- OVERHEAD UTILITY LINE
- UTILITY POLE
- SECONDARY MONUMENT SET
ALUMINUM CAP ON 5/8
REBAR

PLAT NOTES

1. THIS PLAT DOES NOT MEET MINIMUM STANDARDS FOR BOUNDARY SURVEYS, AS SET FORTH BY THE ALASKA SOCIETY OF PROFESSIONAL LAND SURVEYORS. (A.S.P.L.S.)
2. THIS PLAT IS NOT TO BE SCALED FROM, USE GIVEN DIMENSIONS ONLY.
3. THIS COMPANY WAS NOT PROVIDED A TITLE REPORT FOR THIS SURVEY. RECORD INFORMATION SHOWN WAS DERIVED FROM READILY AVAILABLE RECORD INFORMATION ON THE ALASKA D.N.R. WEBSITE.
4. REFERENCE THE FOLLOWING WITHIN THE PETERSBURG RECORDING DISTRICT
 - 4.1. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 2009-16.
 - 4.2. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 2024-5.
 - 4.3. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 2010-1.
 - 4.4. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 69-202.
 - 4.5. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 2023-5.
 - 4.6. THIS PLAT IS SUBJECT TO THE NOTES AND EASEMENTS SHOWN ON PLAT 2016-4.

REVISIONS:

NO.	DATE	DESCRIPTION

EXISTING CONDITIONS TOPOGRAPHIC SURVEY
 PETERSBURG 1200 HAUGEN DRIVE TIDAL NETWORK TOWER
 PARCEL A
 LOCATED WITHIN
 USS 1168 PETERSBURG TOWNSITE

DRAWN BY: EBH
 CHECKED BY: CGP
 DATE: 11/19/25
 R&M # 252759.02
 CADD FILE:

PRSM
 R&M ENGINEERING-KETCHIKAN, INC.
 7180 REVILLA ROAD, SUITE 300
 KETCHIKAN, ALASKA 99901



SHEET DESCRIPTION
 SHEET
 1

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 PETERSBURG, AK 99833
 PETERSBURG COUNTY

PLANS PREPARED FOR:

PLANS PREPARED BY:

Kimley»Horn
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 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
 WWW.KIMLEY-HORN.COM

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SHEET TITLE:
SURVEY INFORMATION

SHEET NUMBER:
 G1

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1.00 GENERAL NOTES

- 1.01 ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND OR REGULATIONS APPLICABLE TO THIS PROJECT.
- 1.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE PROJECT MANAGER AND/OR ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH WORK. WHERE THERE IS A CONFLICT BETWEEN DRAWING AND TIDAL WIRELESS SPECIFICATIONS, THE TIDAL WIRELESS PROJECT MANAGER SHOULD BE CONTACTED FOR CLARIFICATION.
- 1.03 ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE PROJECT MANAGER AND/OR ENGINEER SO THAT PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER AND/OR ENGINEER.
- 1.04 CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH SITE CONDITIONS AS SHOWN ON THE ATTACHED SITE PLAN AND/OR SURVEY DRAWINGS.
- 1.05 WAVEGUIDE BRIDGE AND EQUIPMENT CABINETS ARE SHOWN FOR REFERENCE ONLY. REFER TO SEPARATE DRAWINGS FOR SPECIFIC INFORMATION.
- 1.06 ALL FINISHED GRADES SHALL SLOPE MINIMUM 1/4 IN./FT. AWAY FROM EQUIPMENT IN ALL DIRECTIONS. CONTRACTOR SHALL SLOPE SWALES AS REQUIRED ALONG EXISTING TERRAIN TO DRAIN AWAY FROM COMPOUND AND ACCESS DRIVE.
- 1.07 THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE PLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. NOTIFY ENGINEER OR PROJECT MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS, IF AVAILABLE, FROM TIDAL WIRELESS PROJECT MANAGER TO CONFIRM COAX ROUTING AND ANTENNA MOUNT INFORMATION.
- 1.08 THE CONTRACTOR SHALL PROVIDE ADEQUATE EXCAVATION SLOPING, SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 1.09 UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE EXISTING ACCESS ROAD AND COMPOUND GRAVEL AREAS. ANY NEW FILL MATERIALS SHALL BE COMPACTED.
- 1.10 THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND SHALL REQUEST A VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF THEIR UNDERGROUND UTILITIES AND WHERE THEY MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT WILL BE REQUIRED TO NOTIFY "ALASKA 811" 72 HOURS IN ADVANCE OF PERFORMING ANY WORK BY CALLING THE TOLL FREE NUMBER 1-800-478-3121 (OR 811). ANY UTILITIES DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER.
- 1.11 CONTRACTOR TO PROVIDE DUMPSTER AND PORTABLE TOILET FACILITY DURING CONSTRUCTION.
- 1.12 CONTRACTOR TO PROVIDE STYMIE LOCK OR EQUIVALENT AS APPROVED BY TIDAL WIRELESS PROJECT MANAGER.
- 1.13 CONTRACTOR TO PROVIDE ANY NECESSARY SIGNAGE PER TIDAL WIRELESS PROJECT MANAGER'S INSTRUCTIONS.

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:

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RBV

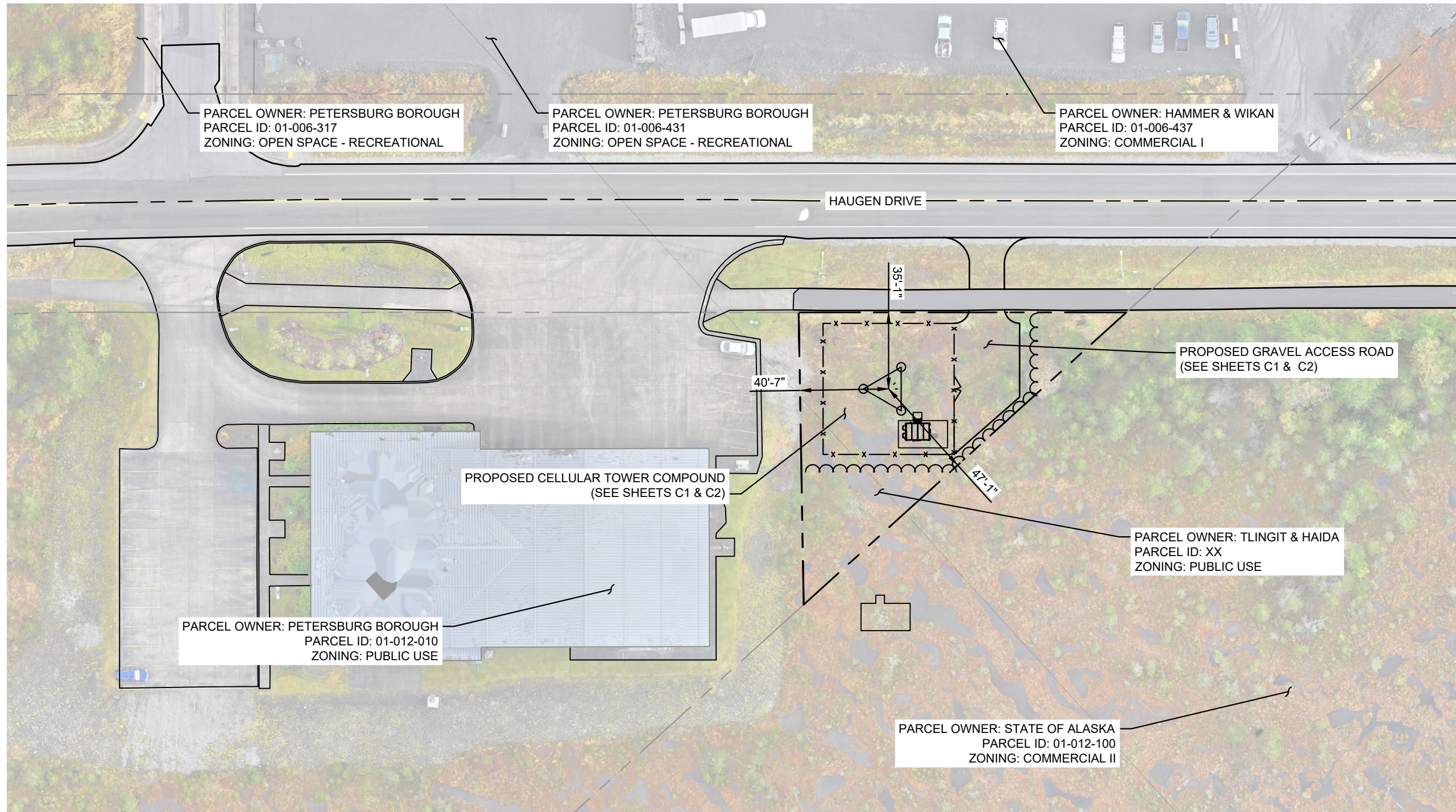
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GENERAL NOTES

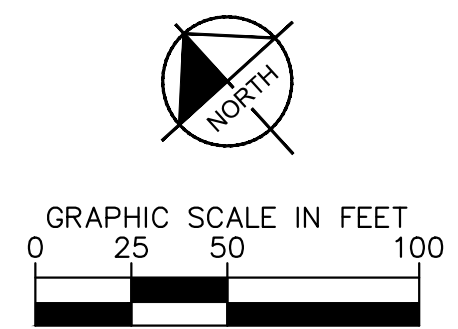
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G2



1
C0
AERIAL PLAN VIEW

SURVEY NOTE:
1. PROPOSED COMPOUND LAYOUT IS BASED ON SURVEY PROVIDED BY R&M ENGINEERING-KETCHIKAN, INC. DATED 11/2025 AND SITE VISIT ON XX/XX/XXXX (REFER TO SHEET G1).



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SITE No.: PSG-Z01
1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:

PLANS PREPARED BY:

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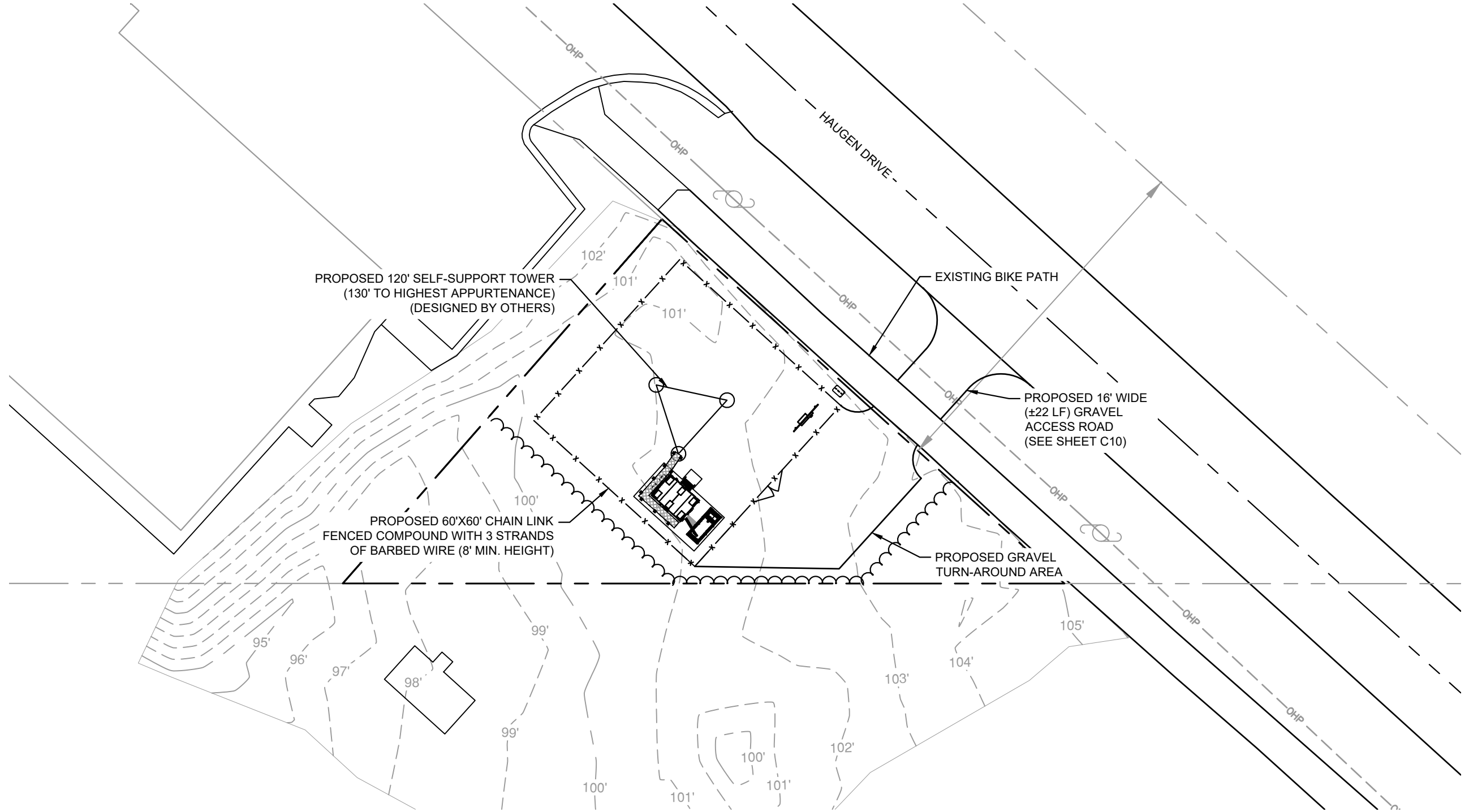
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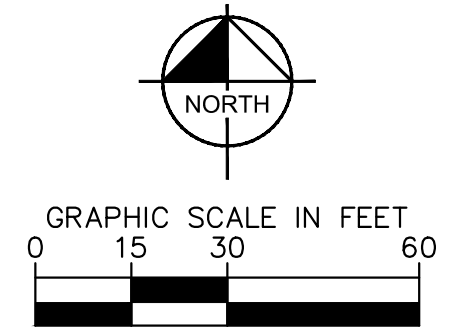
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1 OVERALL SITE PLAN
C1

SURVEY NOTE:
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PETERSBURG ZONE 01
SITE No.: PSG-Z01
1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:

TIDAL NETWORK
PIERSON WIRELESS

PLANS PREPARED BY:

Kimley-Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
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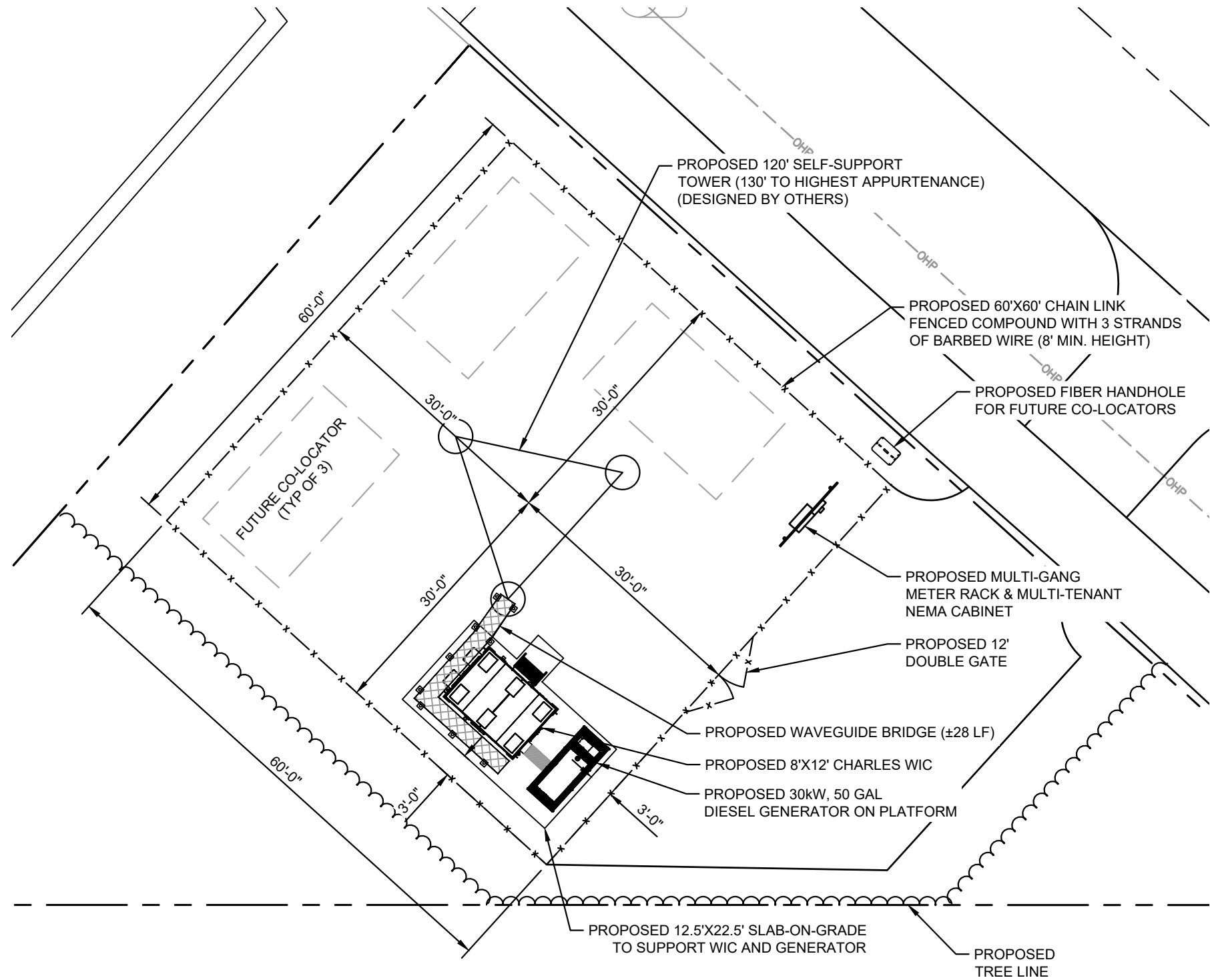
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OVERALL SITE PLAN

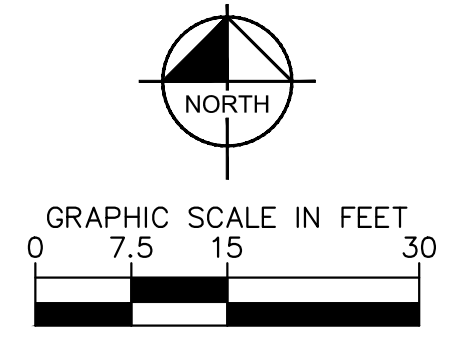
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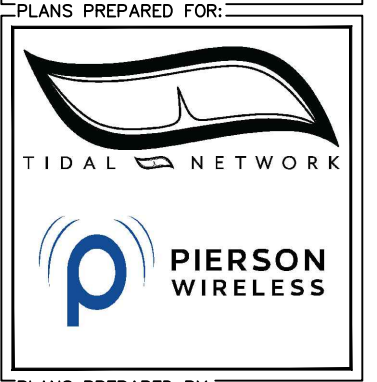


- SITE NOTES:**
1. PROPOSED COMPOUND LAYOUT IS BASED ON SURVEY PROVIDED BY R&M ENGINEERING-KETCHIKAN, INC. DATED 11/2025 AND SITE VISIT ON XX/XX/XXXX (REFER TO SHEET G1).
 2. CONTRACTOR TO CONFIRM WITH TIDAL WIRELESS CONSTRUCTION MANAGER THAT THE EQUIPMENT SHOWN HAS BEEN ORDERED/SCHEDULED FOR DELIVERY TO THIS SITE.
 3. THE BASIS OF EQUIPMENT DESIGN INCLUDES ONE (1) RF CABINET.
 4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MODIFYING SCOPE OF WORK TO ACCOMMODATE ANY CHANGES IN THE EXACT EQUIPMENT PROCURED BY TIDAL WIRELESS. COORDINATE ANY CHANGES WITH TIDAL WIRELESS CONSTRUCTION MANAGER.
 5. ROUTE COAX/FIBER UP TOWER PER STRUCTURAL ANALYSIS BY TOWER OWNER.
 6. TOWER DIMENSIONS SHOWN ON THIS PLAN ARE FOR TOWER CENTER LOCATION. CONTRACTOR TO OBTAIN A COPY OF TOWER ERECTION DRAWINGS FROM TIDAL WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. CAISSONS AND TOWER SHOWN ON THIS PLAN ARE ILLUSTRATIVE, SEE DESIGN DRAWINGS BY OTHERS. DO NOT SCALE.

1
C2 COMPOUND SITE PLAN



PROJECT INFORMATION:
SITE NAME:
 PETERSBURG ZONE 01
SITE No.: PSG-Z01
 1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:

11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
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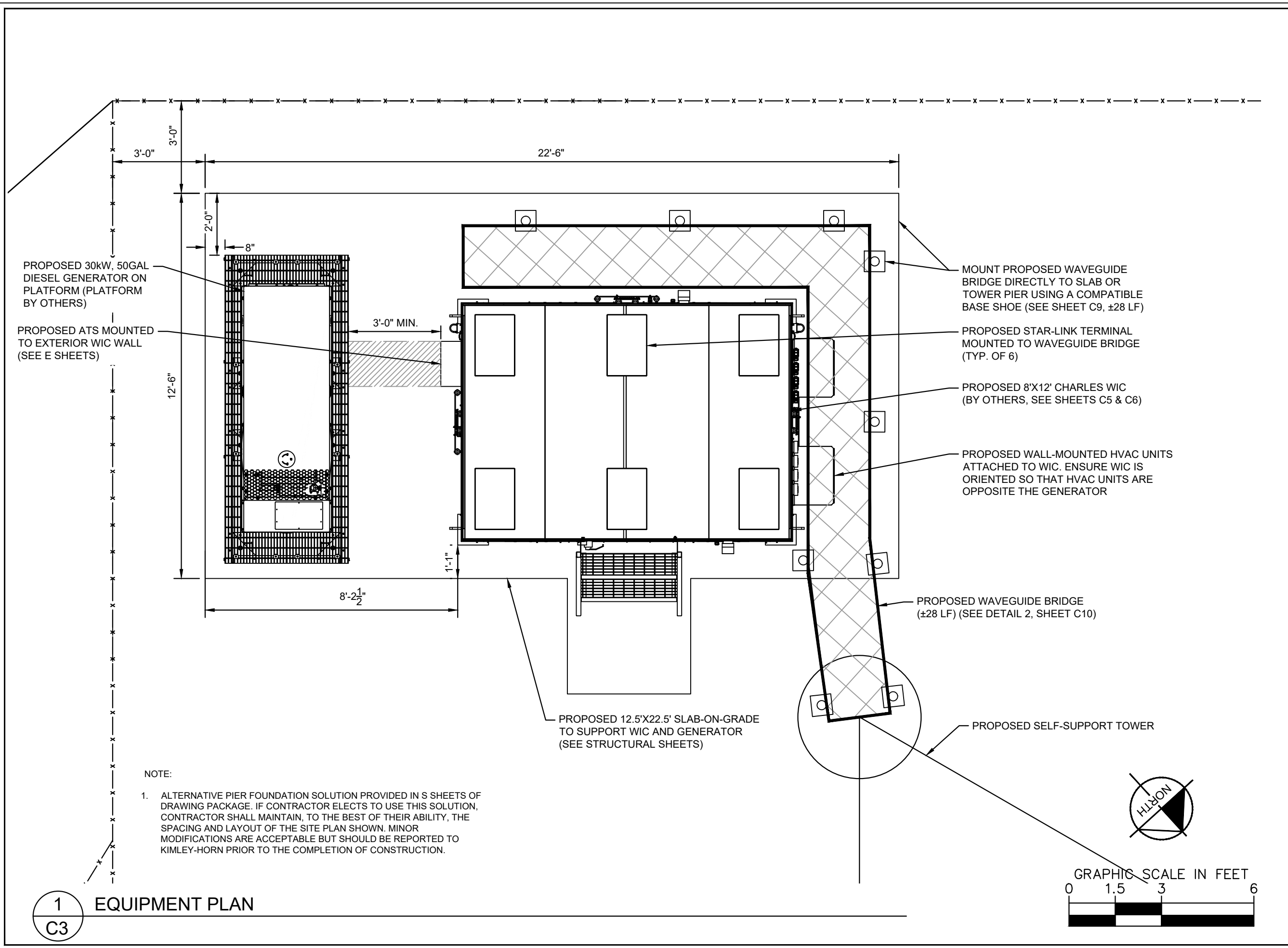
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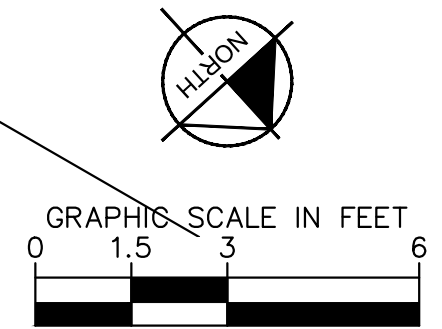
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 COMPOUND SITE PLAN

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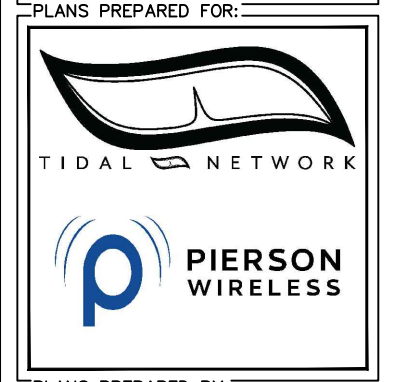
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1
C3 EQUIPMENT PLAN



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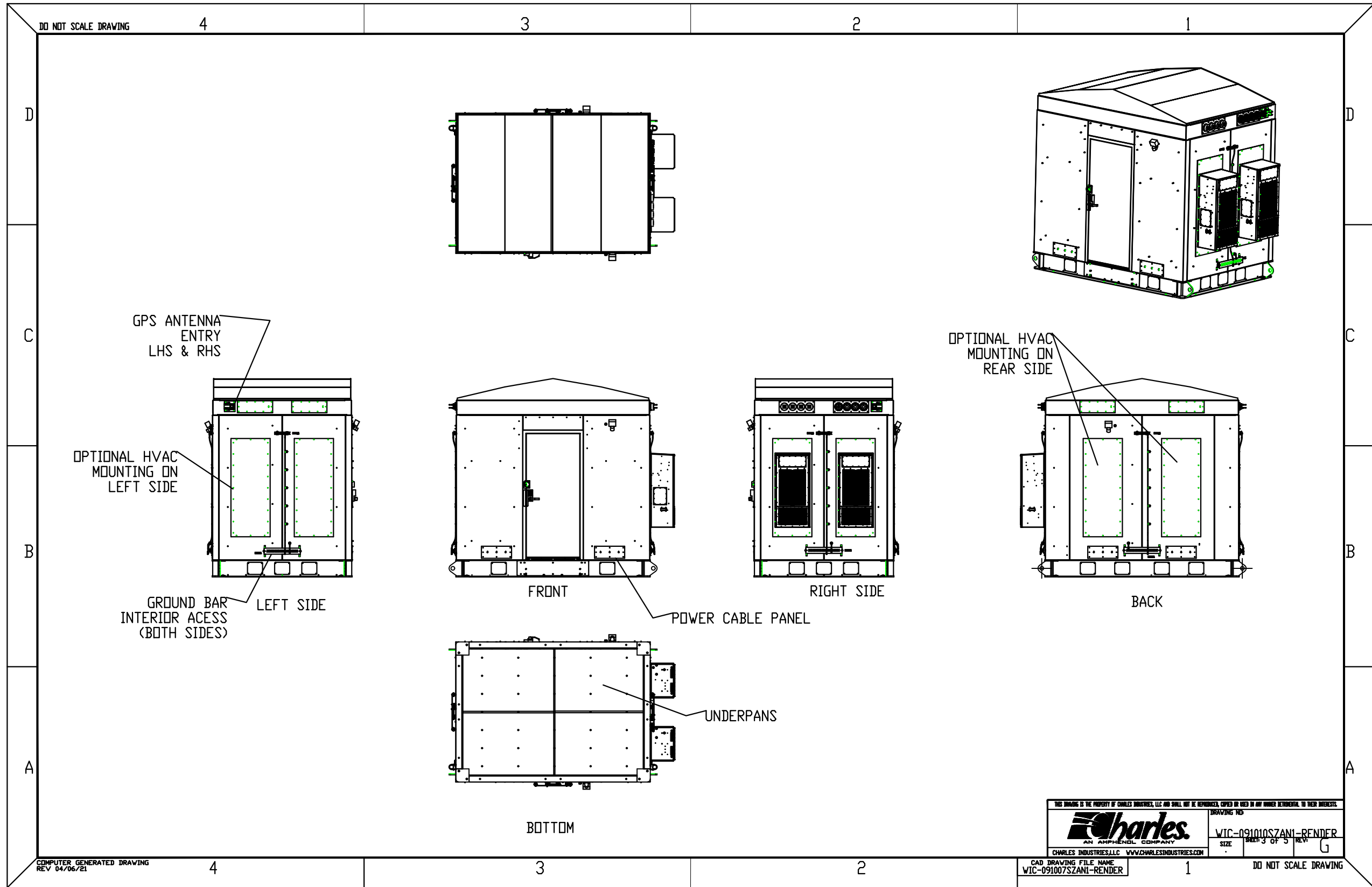
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EQUIPMENT PLAN

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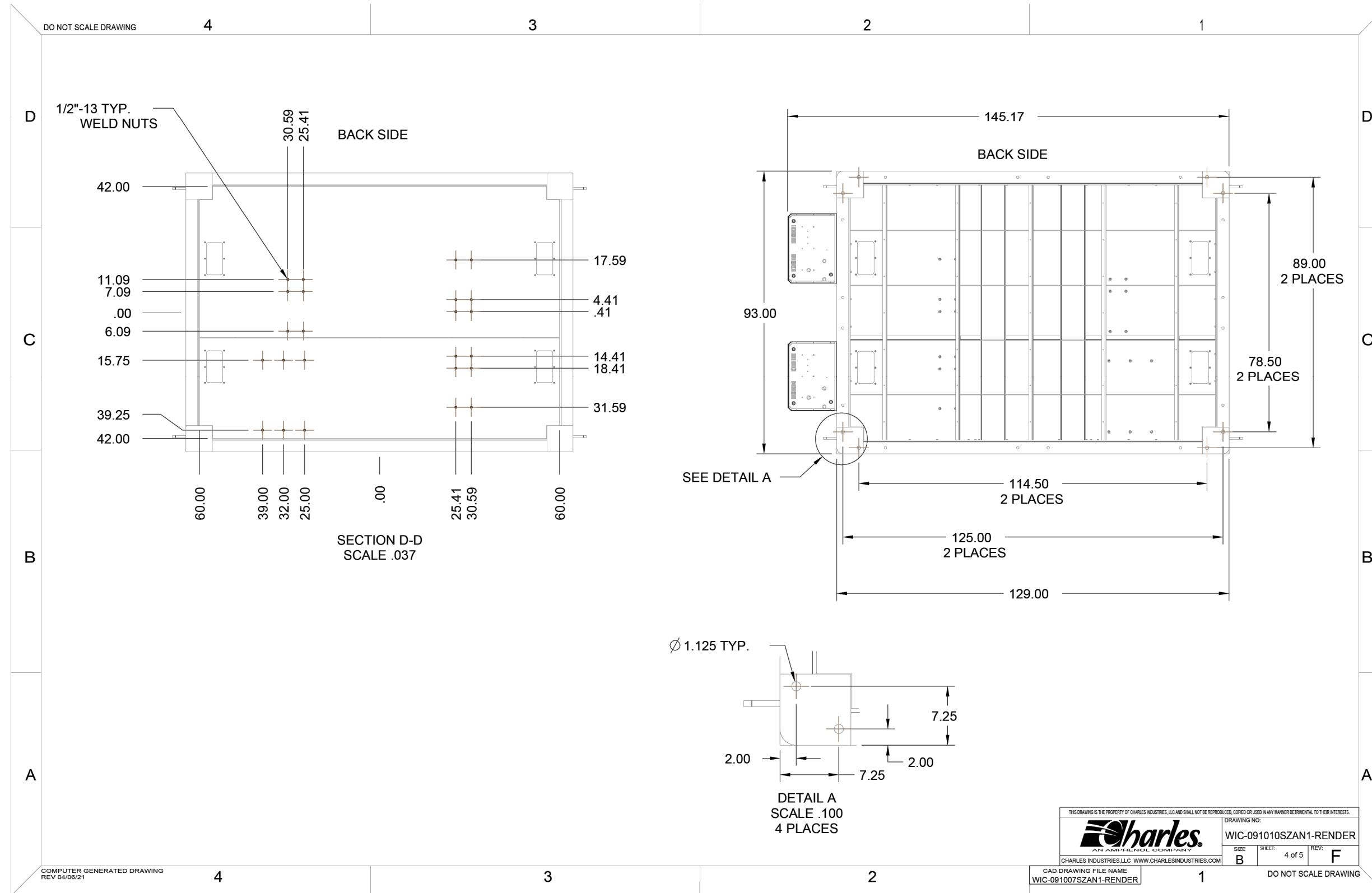
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1 SHELTER DETAILS
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DO NOT SCALE DRAWING



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DRAWN BY: CHECKED BY:

RBV TRN

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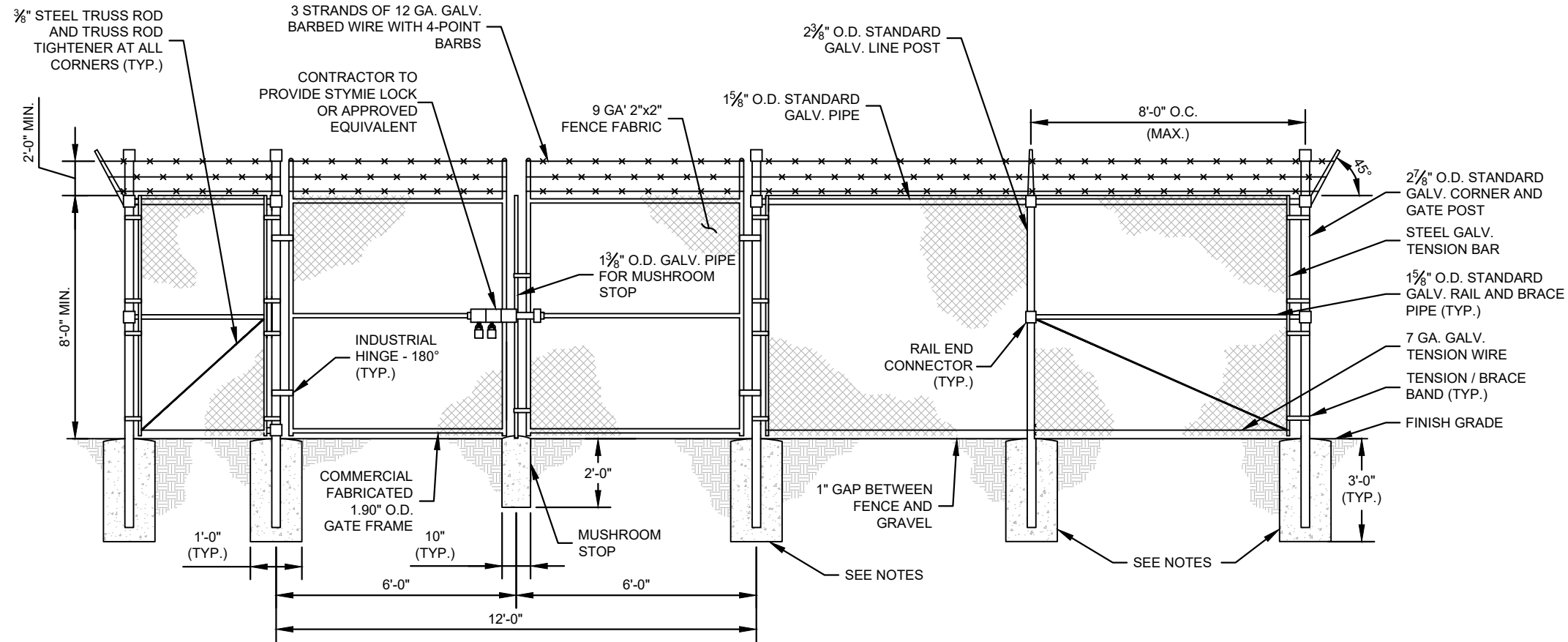
SHELTER DETAILS

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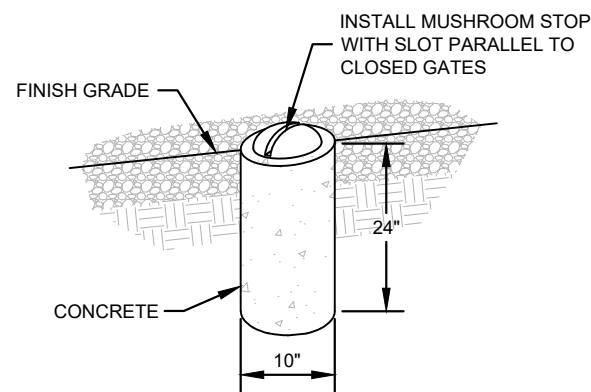
C5

1 SHELTER DETAILS
C5 NOT TO SCALE

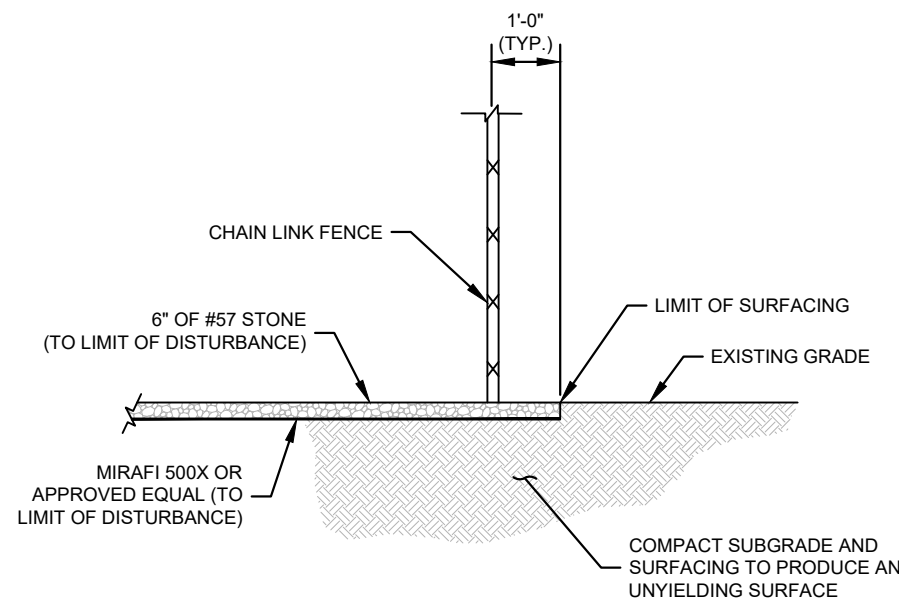
- FENCE NOTES:**
- USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
 - WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
 - ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
 - CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
 - PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
 - THE GRADE OF THE SITE AND INSTALLATION OF THE FENCE SHALL PROVIDE FOR NO MORE THAN A 1" GAP BETWEEN THE BOTTOM OF THE FENCE MATERIAL AND FINISH GRADE.
 - CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
 - CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.



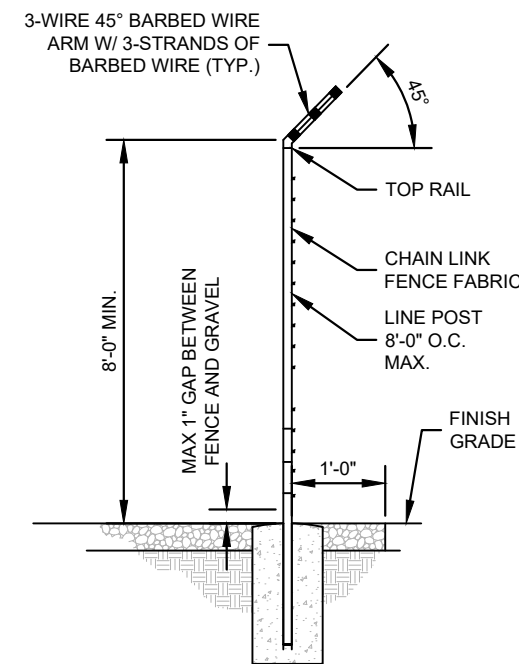
1 CHAIN LINK FENCE AND GATE ELEVATION
C6 NOT TO SCALE



2 MUSHROOM STOP
C6 NOT TO SCALE



3 SITE COMPOUND SURFACE DETAIL
C6 NOT TO SCALE



4 SECTION AT FENCE
C6 NOT TO SCALE

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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PRELIMINARY
NOT FOR CONSTRUCTION

KHA PROJECT NUMBER:

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DRAWN BY: CHECKED BY:

RBV

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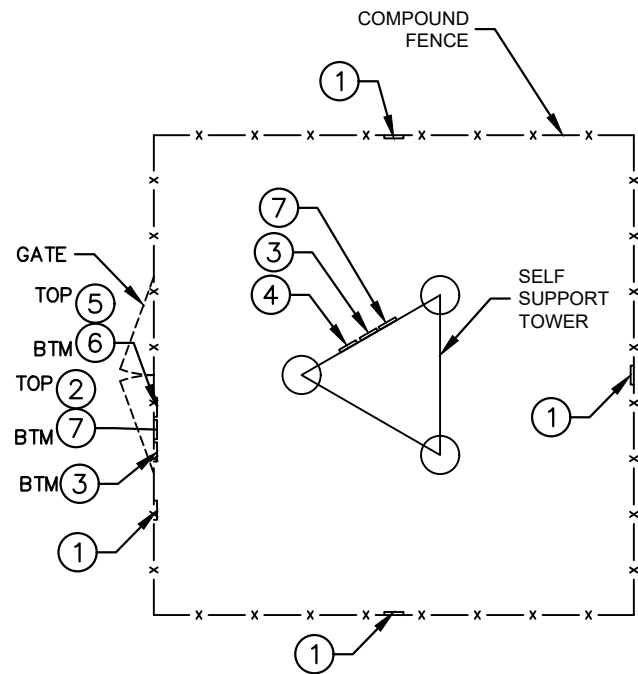
SHEET TITLE:

**FENCE, GATE AND
COMPOUND
DETAILS**

SHEET NUMBER:

C6

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NOTE: SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.

1 SIGN PLACEMENT PLAN VIEW
C7 NOT TO SCALE

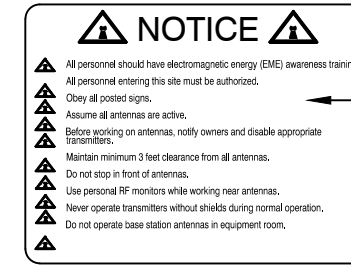


WHITE BACKGROUND w/
RED LETTERING

1 NO-TRESPASSING SIGN
18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)

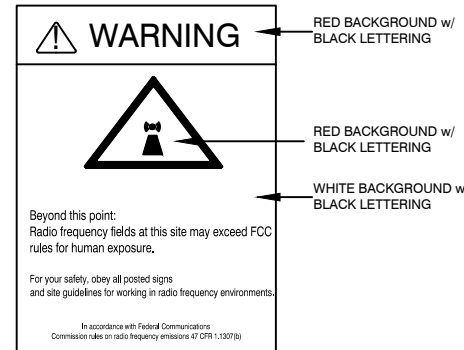
SIGN DETAIL PENDING AND TO BE PROVIDED BY TIDAL NETWORK AT A LATER DATE

2 TIDAL NETWORK - SITE ID SIGN



YELLOW BACKGROUND w/
BLACK LETTERING

3 NOTICE-RFE SIGN
12" WIDE X 18" HIGH
(OPERATIONS PROVIDED)

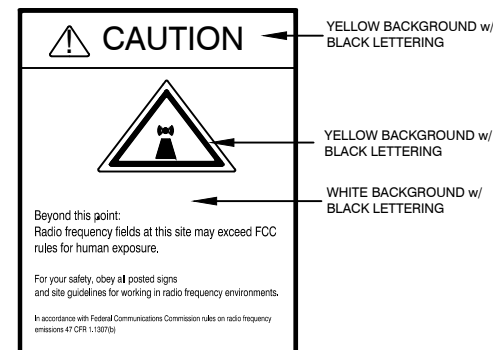


RED BACKGROUND w/
BLACK LETTERING

RED BACKGROUND w/
BLACK LETTERING

WHITE BACKGROUND w/
BLACK LETTERING

4 WARNING-RF SIGN (RED)
12" WIDE X 18" HIGH

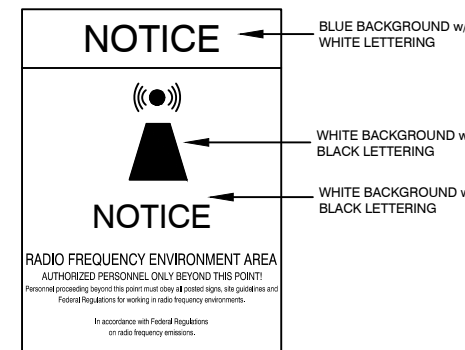


YELLOW BACKGROUND w/
BLACK LETTERING

YELLOW BACKGROUND w/
BLACK LETTERING

WHITE BACKGROUND w/
BLACK LETTERING

5 CAUTION-RF SIGN (YELLOW)
12" WIDE X 18" HIGH

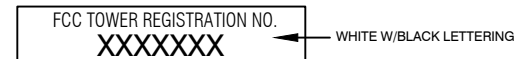


BLUE BACKGROUND w/
WHITE LETTERING

WHITE BACKGROUND w/
BLACK LETTERING

WHITE BACKGROUND w/
BLACK LETTERING

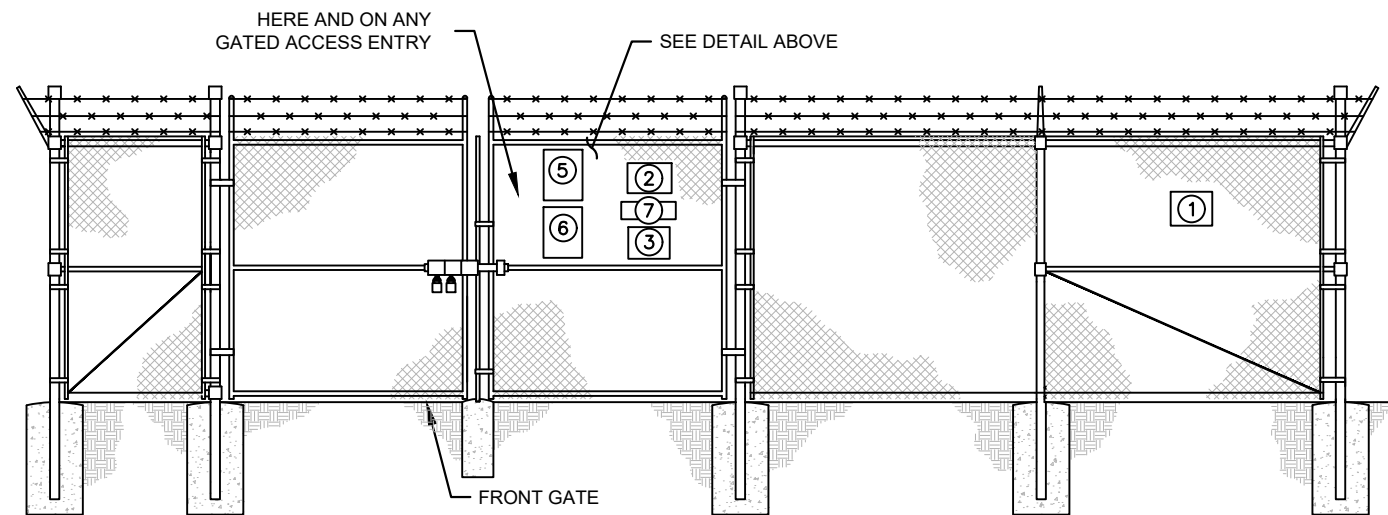
6 NOTICE-RF SIGN (BLUE)
12" WIDE X 18" HIGH



WHITE W/BLACK LETTERING

7 FCC REGISTRATION SIGN
20 WIDE X 4" HIGH

2 TYPICAL SIGNS AND SPECIFICATIONS
C7 NOT TO SCALE



3 SIGN PLACEMENT FRONT GATE VIEW
C7 NOT TO SCALE

SIGNAGE NOTES:

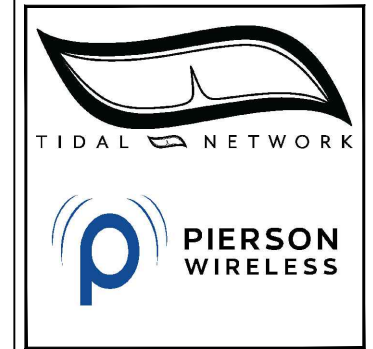
- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILIZED IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



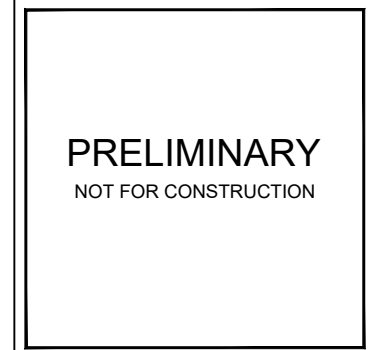
PLANS PREPARED BY:



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KHA PROJECT NUMBER:

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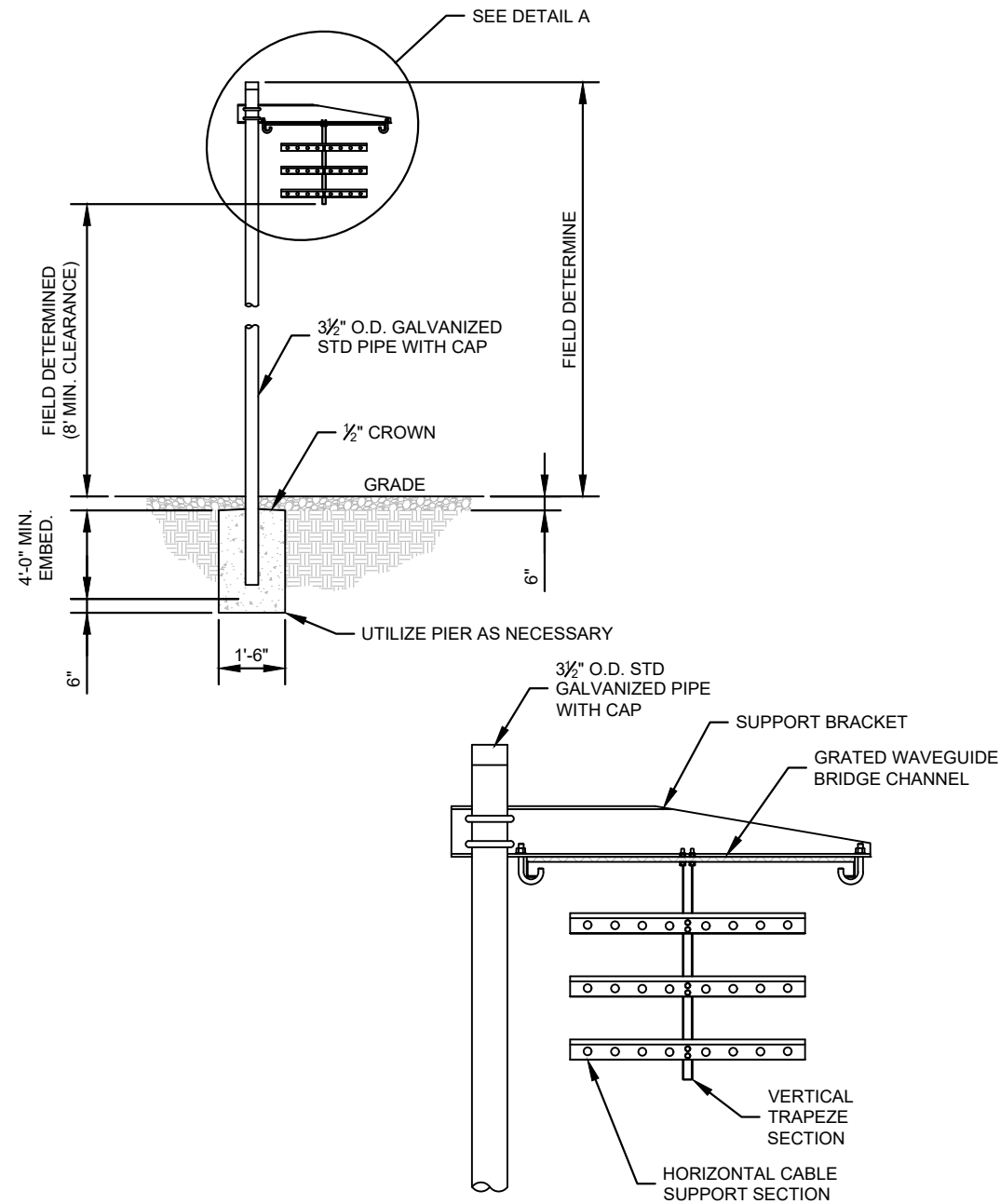
SHEET TITLE:

SITE SIGN DETAILS

SHEET NUMBER:

C7

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DETAIL A
COMMSCOPE 1 POST WAVEGUIDE BRIDGE KIT WITH BASE SHOE (PART #s:WB-K210-B15 & WB-BS, OR APPROVED EQUIVALENTS)

- NOTE:**
1. ALL MATERIALS FURNISHED BY CONTRACTOR UNLESS OTHERWISE NOTED.

2 WAVEGUIDE BRIDGE DETAIL WITH ALT DESIGN
C8 NOT TO SCALE

WB-BS



Base Shoe for 3-1/2 in OD pipe, hardware included

Product Classification

Product Type Shoe

General Specifications

Application Base shoe

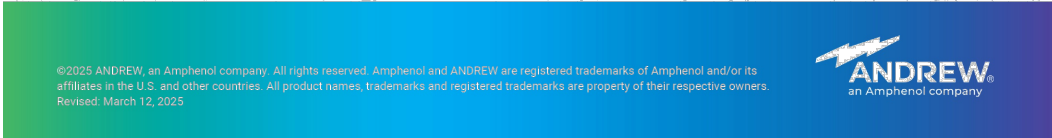
Mounting Pipe, 88.9 mm (3-1/2 in) OD

Dimensions

Height 152.4 mm | 6 in

Width 203.2 mm | 8 in

Length 203.2 mm | 8 in



PROJECT INFORMATION:

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SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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SHEET TITLE:

WAVEGUIDE BRIDGE DETAILS

SHEET NUMBER:

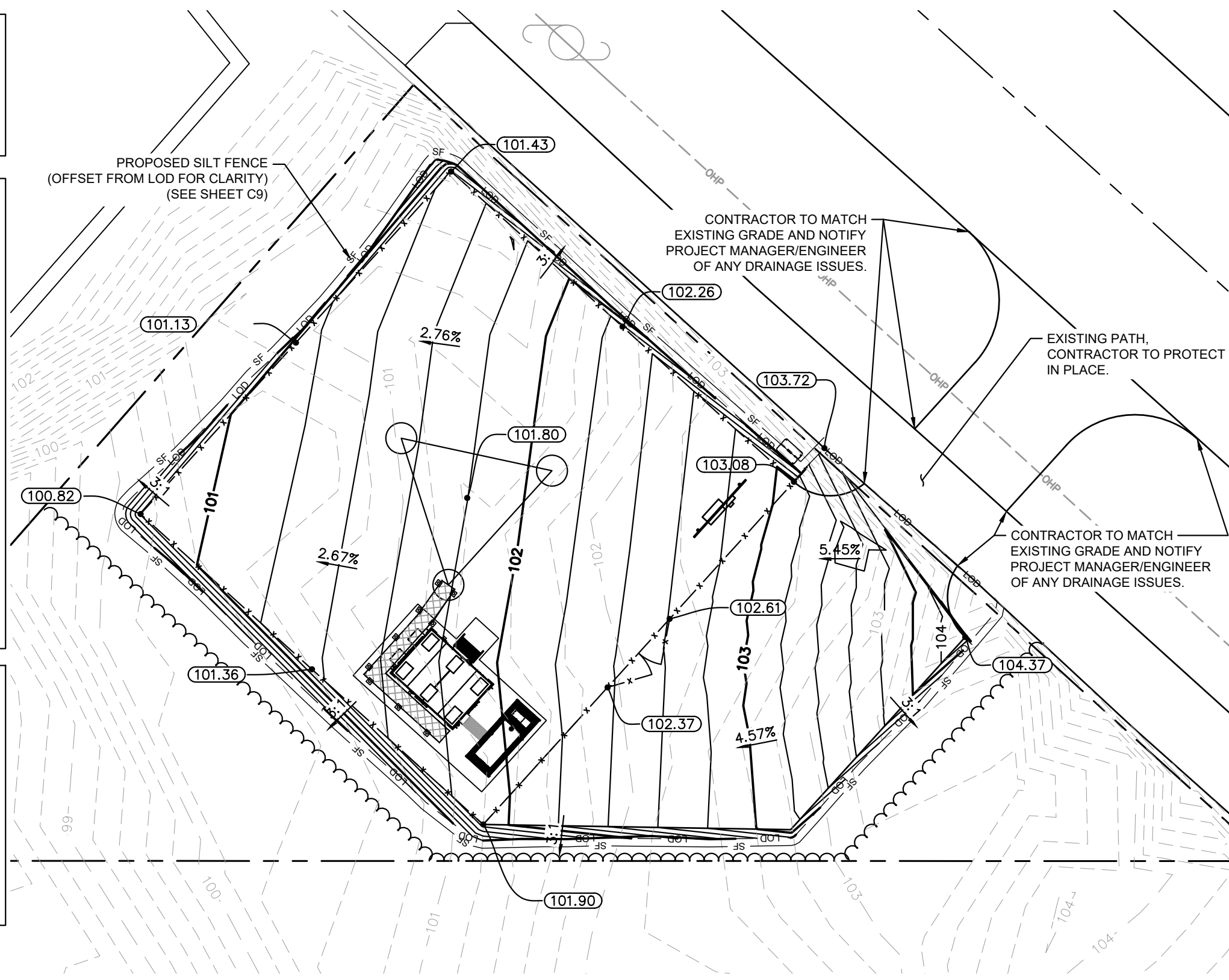
C8

NOTE:
CURRENT DESIGN ANTICIPATES APPROXIMATELY 5,597± SQ. FT. (0.13 ACRES) OF CLEARING AND GRADING FOR THE PROPOSED PROJECT. IF ADDITIONAL CLEARING IS REQUIRED BEYOND WHAT IS SHOWN IN THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR PROJECT MANAGER.

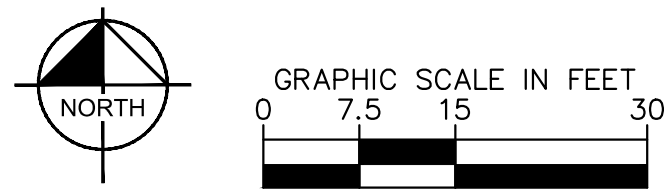
- GRADING NOTES:**
1. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEERS SPECIFICATIONS. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
 2. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
 3. CONTRACTOR SHALL BLEND EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
 4. PORTIONS OF THE SITE NOT SPECIFICALLY MENTIONED WITHIN THE GEOTECHNICAL REPORT SHALL BE COMPACTED TO 95 PERCENT OF THE MATERIALS MAXIMUM DRY DENSITY WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
 5. FILL SHALL BE PLACED IN MAXIMUM 8 INCH LOOSE LIFTS.
 6. GROUND WATER SHOULD BE REASONABLY EXPECTED. ANY DE-WATERING OR MOISTURE CONDITIONING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE INCLUDED IN THE CONTRACT PRICE.
 7. SEED ALL DISTURBED AREAS NOT TOPPED WITH GRAVEL. REFER TO SEEDING SCHEDULE ON SHEET C9.
 8. MAXIMUM CUT SLOPE = 3H:1V UNLESS OTHERWISE NOTED.
 9. MAXIMUM FILL SLOPE = 3H:1V UNLESS OTHERWISE NOTED.

LEGEND

EXISTING CONTOURS	---
PROPOSED CONTOURS	—
LIMITS OF DISTURBANCE	— LOD —
SILT FENCE	— SF —
TREE PROTECTION FENCE	— TPF —
PROPOSED SPOT ELEVATION	● (XX.XX)



1
C9 GRADING AND EROSION CONTROL PLAN



PROJECT INFORMATION:
SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:

PLANS PREPARED BY:

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:
017619024

DRAWN BY: _____ CHECKED BY: _____
RBV TRN

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
C9

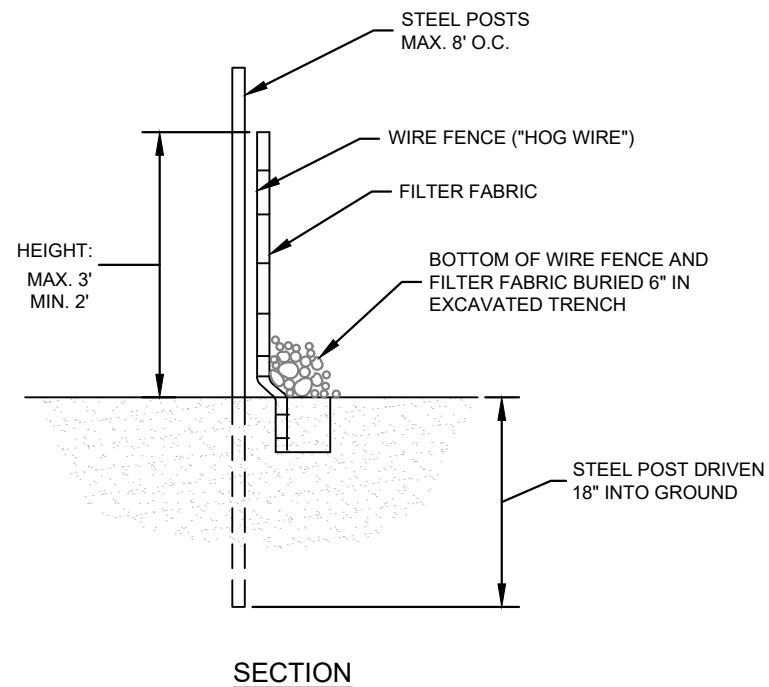
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EROSION CONTROL NOTES:

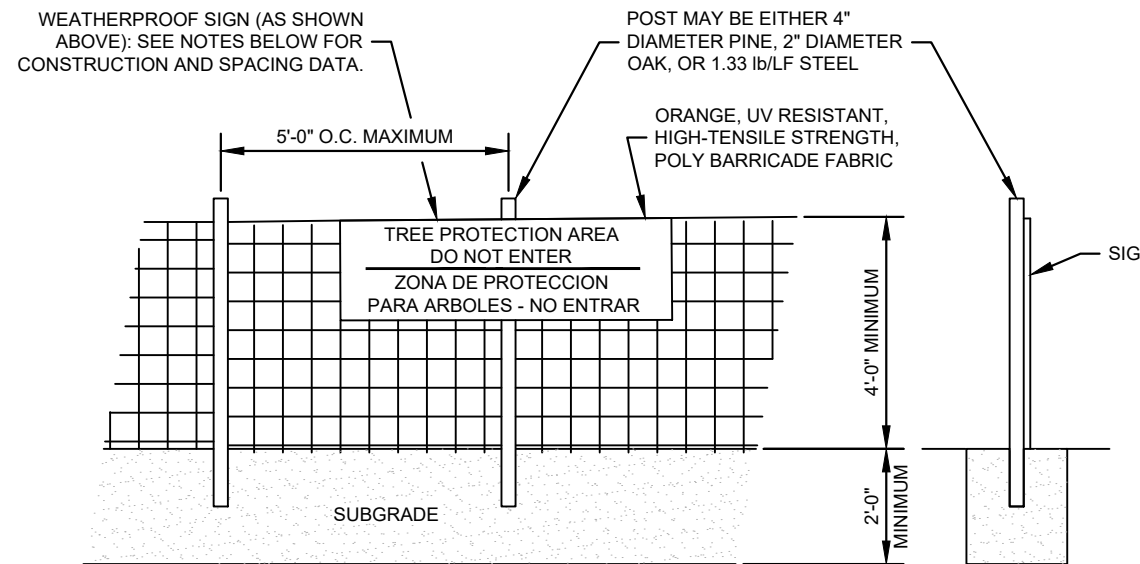
1. EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE.
2. ALL EXCAVATED SOILS NOT NEEDED ON SITE FOR BACKFILL OPERATIONS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE TAKEN OFF SITE AND LEGALLY DISPOSED OF.
3. SOIL REMAINING ON SITE SHALL HAVE SILT FENCE TIGHTLY PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.
4. PROVIDE EROSION CONTROLS AS NECESSARY TO PREVENT EXISTING SOILS FROM DRAINING OFF SITE OR INTO EXISTING DRAINAGE STRUCTURES.
5. ERECTION OF EROSION CONTROLS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL EROSION CONTROL REGULATIONS.

SEEDING SCHEDULE			
SOIL MOISTURE	SOIL GROUP	SPECIES/CULTIVAR SELECTIONS	SEEDING RATE LB./AC.
ALL	ALL	1 NORCOAST BERING HAIRGRASS 1 BOREAL RED FESCUE 2 ARCTARED RED FESCUE 2 NORTRAN TUFTED HAIRGRASS 2 CAIGGLUK TILSY SAGEBRUSH 3 SOURDOUGH BLUEJOINT GRASS 3 PENNLAWN RED FESCUE	40
<p>NOTES</p> <p>1. PT SOILS ARE NOT HIGHLY ERODIBLE. RECOMMEND NO SEEDING, ONLY FERTILIZER APPLICATION. IF SEEDING IS RECOMMEND, USE STANDARD SOUTHWEST SCHEDULE.</p> <p>2. GW AND GP SOILS ARE NOT HIGHLY ERODIBLE. RECOMMEND FERTILIZER AND SCARFICATION ONLY. IF SEEDING IS RECOMMENDED, USE SOUTHWEST SCHEDULE.</p> <p>3. IF THE AREA TO BE REVEGETATED IS ADJACENT TO A COASTLINE, CONSIDER USING BEACH WILDRYE TRANSPLANTS.</p>			

1 SEEDING SCHEDULES
C10



2 SILT FENCE DETAIL
C10 NOT TO SCALE



NOTES
INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR SITE INSPECTION. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BASED ON ACTUAL FIELD CONDITIONS.

3 TREE PROTECTION FENCE DETAIL
C10 NOT TO SCALE

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
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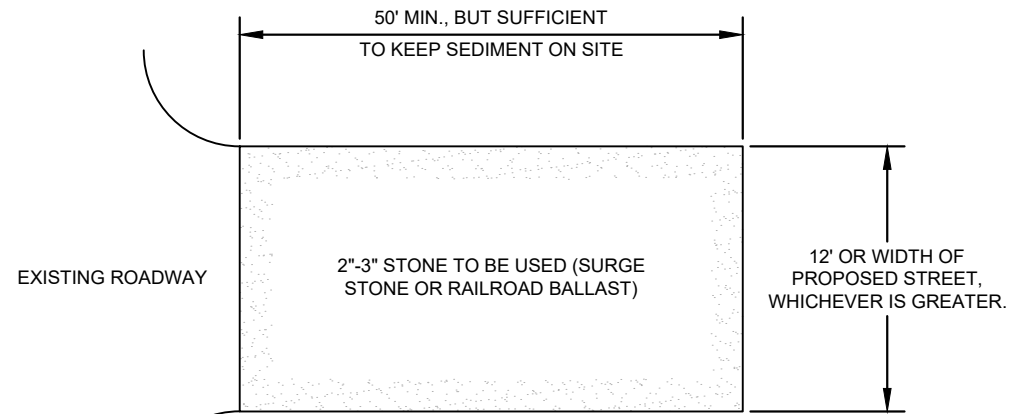
SHEET TITLE:

GRADING AND EROSION CONTROL DETAILS

SHEET NUMBER:

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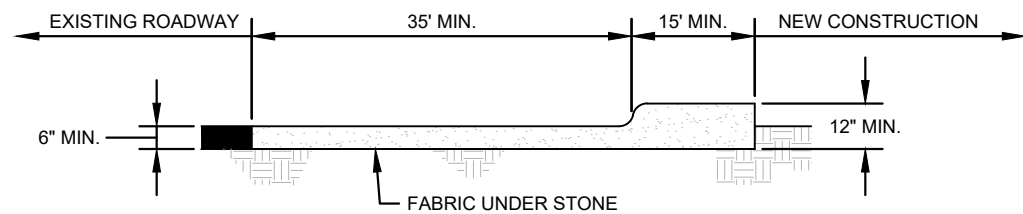
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PLAN

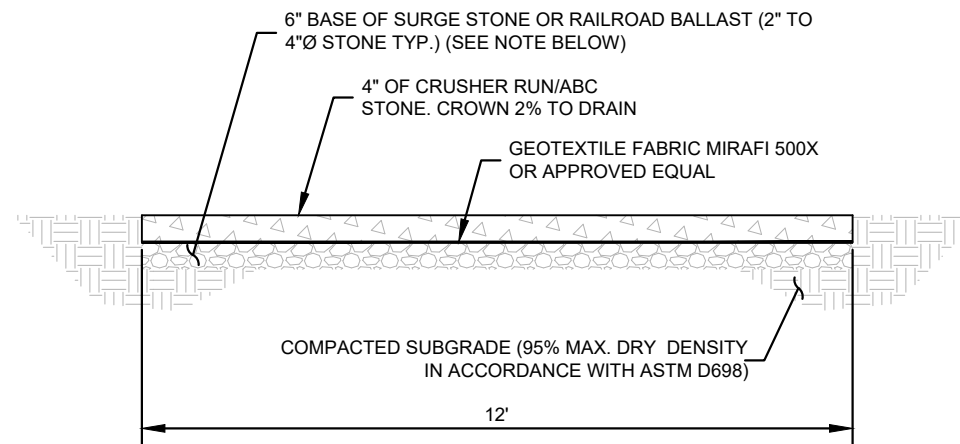
NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.



CROSS SECTION

1
C11 CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTE:

IF DETERMINED NECESSARY DURING GRADING AND CONSTRUCTION OF THE ACCESS ROAD BY THE TIDAL NETWORK PROJECT MANAGER, THE CONTRACTOR SHALL INSTALL 6" BASE OF SURGE STONE OR RAILROAD BALLAST (2" TO 4"Ø STONE TYP.)

1
C11 STANDARD ACCESS ROAD AND TURN-AROUND DETAIL
NOT TO SCALE

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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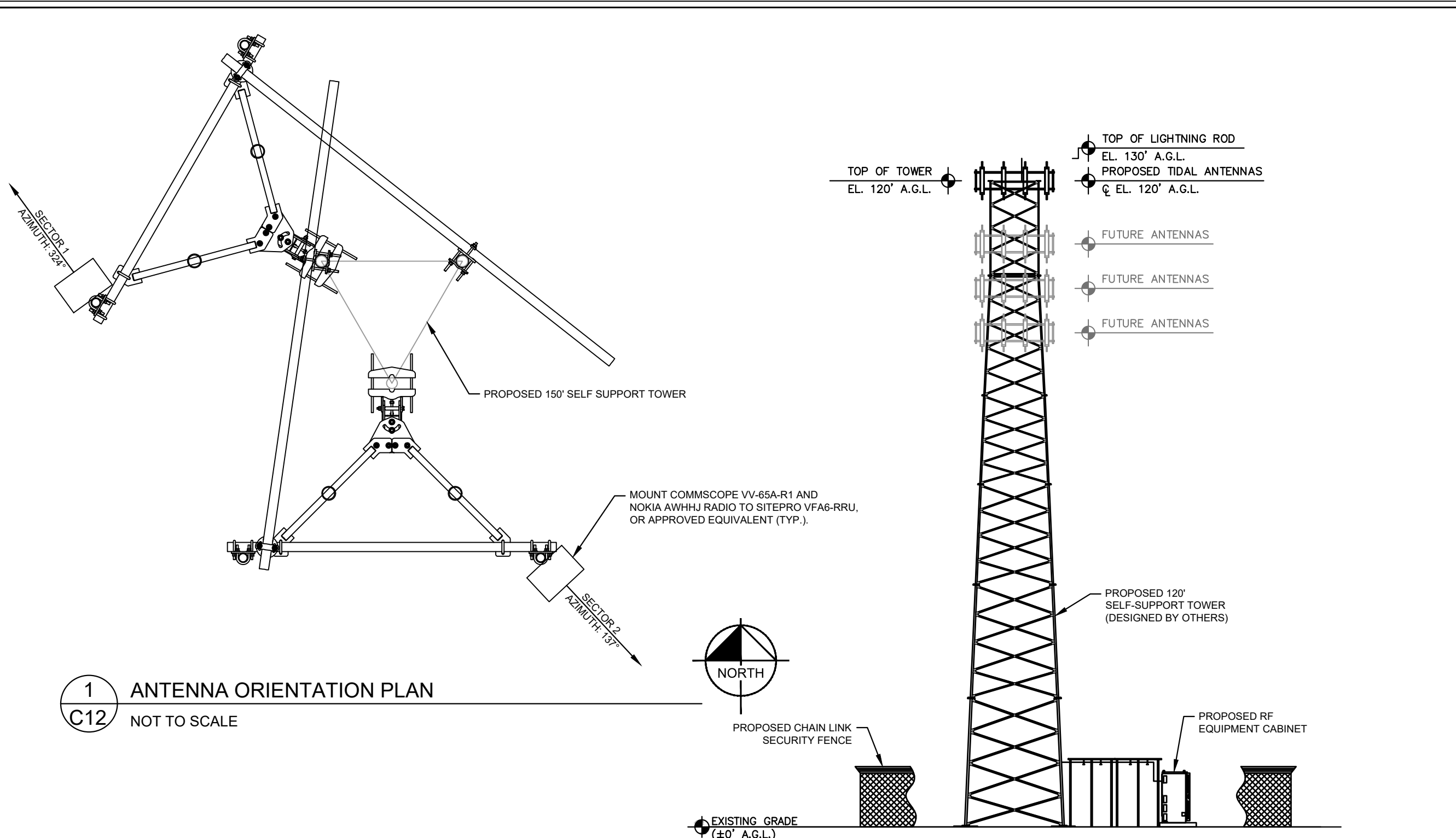
SHEET TITLE:

**ACCESS ROAD
DETAILS**

SHEET NUMBER:

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1 ANTENNA ORIENTATION PLAN
C12 NOT TO SCALE

1 SELF-SUPPORT TOWER ELEVATION
C12 NOT TO SCALE

NOTES:

1. ALL INFORMATION ON THIS PAGE IS PROVIDED BY OTHERS AND IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR SHALL CONTACT THE TIDAL WIRELESS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION FOR ALL DETAILED ANTENNA, AND COAX CABLE INFORMATION.
2. REFER TO STRUCTURAL ANALYSIS BY TOWER OWNER FOR ANALYSIS OF PROPOSED TOWER.
3. IT IS UNDERSTOOD THAT KIMLEY-HORN MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE RELATING TO THE STRUCTURAL ADEQUACY OF THE PROPOSED TOWER OR ATTACHMENT OF ANTENNAS OR OTHER APPURTENANCES.

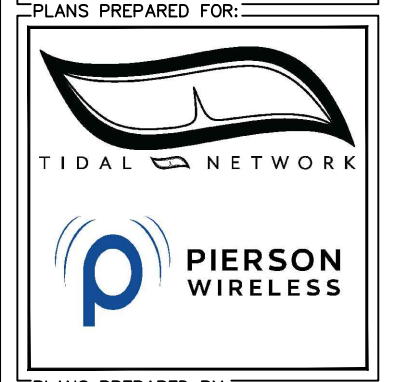
NOTES:

1. ALL PROPOSED ATTACHMENTS TO TOWER BASED ON TOWER DESIGN DRAWINGS BY OTHERS (SEE GENERAL NOTE 1.07, SHEET G2).
2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
3. COAX/FIBER CABLE LENGTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY CORRECT LENGTH IN FIELD AT TIME OF CONSTRUCTION.
4. PROPOSED TOWER WILL BE GALVANIZED STEEL-GRAY IN COLOR.

PROJECT INFORMATION:

SITE NAME:
 PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:

Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
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FOR REFERENCE ONLY

KHA PROJECT NUMBER:
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DRAWN BY: RBV **CHECKED BY:** TRN

SHEET TITLE:
 ANTENNA AND TOWER ELEVATION DETAILS

SHEET NUMBER:
 C12

1.00 FOUNDATION NOTES

- 1.01 FOUNDATIONS ARE DESIGNED FOR A PRESUMPTIVE ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF. CONTRACTOR SHALL VERIFY SOIL CONDITIONS AND BEARING CAPACITY PRIOR TO CONSTRUCTION.
- 1.02 EXCAVATE A MINIMUM 18" BELOW PROPOSED EQUIPMENT FOUNDATIONS OF EXPANSIVE, ORGANIC, UNCONSOLIDATED OR OTHERWISE UNACCEPTABLE MATERIAL AND REPLACE WITH WELL-COMPACTED MATERIAL ACCEPTABLE TO OWNER/CARRIER.
- 1.03 CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION. COORDINATE ALL RELOCATIONS WITH THE PROPERTY OWNER.
- 1.04 CONTRACTOR TO CUT/FILL EXISTING COMPOUND SUBSOIL TO PROVIDE AN AREA AS LEVEL AS POSSIBLE FOR THE EQUIPMENT FOUNDATIONS. ALL FILL AREAS ARE TO BE FILLED WITH SUITABLE MATERIALS. FILL MATERIALS ARE TO BE PLACED, COMPACTED, AND TESTED IN MAXIMUM LAYERS OF 8". COMPACTION OF ALL FILL MATERIAL SHALL ACHIEVE 95 PERCENT OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 698. ALL TESTS MUST MEET THE MINIMUM SPECIFIED SOIL BEARING CAPACITY. COMPACTION TESTING IS BY THE GEOTECHNICAL TESTING COMPANY DESIGNATED FOR THE PROJECT. SCHEDULING AND COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. REPORTS OF ALL TESTING ARE TO BE PROMPTLY DELIVERED OR FAXED TO THE VERIZON WIRELESS PROJECT MANAGER.
- 1.05 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION TO ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 1.06 CONCRETE SHALL HAVE A SLUMP BETWEEN 3" AND 6".
- 1.07 AT THE REQUEST OF THE OWNER/CARRIER PROJECT MANAGER, TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C31. THREE CYLINDERS SHALL BE TAKEN FOR EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH THE LATEST REVISION TO ASTM C39.
- 1.08 CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" x 45° CHAMFER, UNLESS OTHERWISE NOTED.
- 1.09 CONCRETE FORMWORK IS TO BE STRIPPED WITHIN 48 HOURS. VIBRATION OF THE CONCRETE MUST ASSURE THAT HONEYCOMBING WILL BE AT A MINIMUM. MECHANICAL VIBRATION OF ALL CONCRETE IS REQUIRED UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER. ABOVE GRADE CONCRETE IS TO BE RUBBED AND PATCHED TO ASSURE SMOOTH FINISH AT TIME OF FORMS REMOVAL. CONTRACTOR SHALL PROVIDE A BROOM FINISH ON THE TOP SURFACE OF THE EQUIPMENT FOUNDATION UNLESS OTHERWISE DIRECTED BY VERIZON WIRELESS' PROJECT MANAGER.
- 1.10 TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02' OF ELEVATION REQUIRED.
- 1.11 TOP OF FOUNDATION FINISH TO BE LEVEL ±1/8" IN 10'.
- 1.12 TOP OF FOUNDATION TO HAVE MEDIUM BROOM FINISH.
- 1.13 CONCRETE REINFORCEMENT SHALL HAVE THE FOLLOWING PROTECTIVE COVER:
 - CONCRETE PLACED AGAINST EARTH OF GROUND...3"
 - ALL OTHER LOCATIONS...2"
- 1.14 CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY PLACEMENT OF EQUIPMENT AND LOCATION OF CONDUIT FOR MANUFACTURER'S AND VENDORS SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION OF ALL UTILITIES.
- 1.15 THE PROPOSED TOWER AND TOWER FOUNDATIONS WERE DESIGNED BY OTHERS. TOWER INFORMATION PROVIDED ON THESE PLANS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. NOTIFY ENGINEER OR PROJECT MANAGER OF ANY CONFLICTS OR DISCREPANCIES. CONTRACTOR TO OBTAIN COPY OF TOWER DESIGN DRAWINGS, IF AVAILABLE, FROM OWNER/CARRIER PROJECT MANAGER TO CONFIRM COAX ROUTING AND ANTENNA MOUNT INFORMATION.

2.00 GENERAL STRUCTURAL NOTES

- 2.01 DESIGN: 2021 INTERNATIONAL BUILDING CODE WITH ALASKA AMENDMENTS.
- 2.02 STRUCTURAL STEEL W SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 GR. 50. TUBING SHALL CONFORM TO ASTM A-500 GR. B. PIPE SHALL CONFORM TO ASTM A53 GR. B. CHANNELS AND ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED.
- 2.03 ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.
- 2.04 WELDING SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.1 ALL WELDS SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED WITH E70XX ELECTRODES.
- 2.05 UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE FULL DEPTH CONNECTIONS MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS (ASTM A325-X).
- 2.06 CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
- 2.07 HOT DIP GALVANIZE ALL STRUCTURAL STEEL, GRATING, HANDRAILS, AND HARDWARE. TOUCH UP ALL FIELD WELDS AND ABRADED AREAS WITH GALVANIZING PAINT. REPAIR OF ABRADED OR UNCOATED AREAS SHALL CONFORM TO THE LATEST VERSION OF ASTM A780-93A.
- 2.08 GALVANIZED STEEL SUBJECTED TO FIELD WELDING FOR STRUCTURAL CONNECTIONS SHALL BE PROPERLY PREPARED FOR A MINIMUM DISTANCE OF 1 INCH FROM THE WELD. APPROVED METHODS OF PREPARATION INCLUDE USING SUITABLE MASKING MATERIALS PRIOR TO GALVANIZING IN THE SHOP OR GRINDING THE COATING OFF IN THE FIELD. AFTER WELDING, APPLY EPOXY ZINC COATING SYSTEM SHERWIN-WILLIAMS AEROSOL ZINC CLAD 5 OR ENGINEER APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS.
- 2.09 CONTRACTOR / STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS, EXISTING COLUMN LOCATIONS, AND LOAD BEARING COLUMNS AS REQUIRED BEFORE FABRICATION OF ANY STEEL.
- 2.10 CONTRACTOR / STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE TO THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- 2.11 ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
- 2.12 CONTRACTOR / STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES/TUBES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- 2.13 CONTRACTOR / STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR'S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES.
- 2.14 AT THE CONTRACTORS OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
- 2.15 GRATING SHALL BE 1 1/2" X 3/16" MCNICHOLS (OR APPROVED EQUAL). GRATING TO BE ATTACHED TO THE STRUCTURAL STEEL PLATFORM FRAMING USING STANDARD GRATING CLIPS IN ACCORDANCE WITH GRATING MANUFACTURERS' STANDARDS AND RECOMMENDATIONS.

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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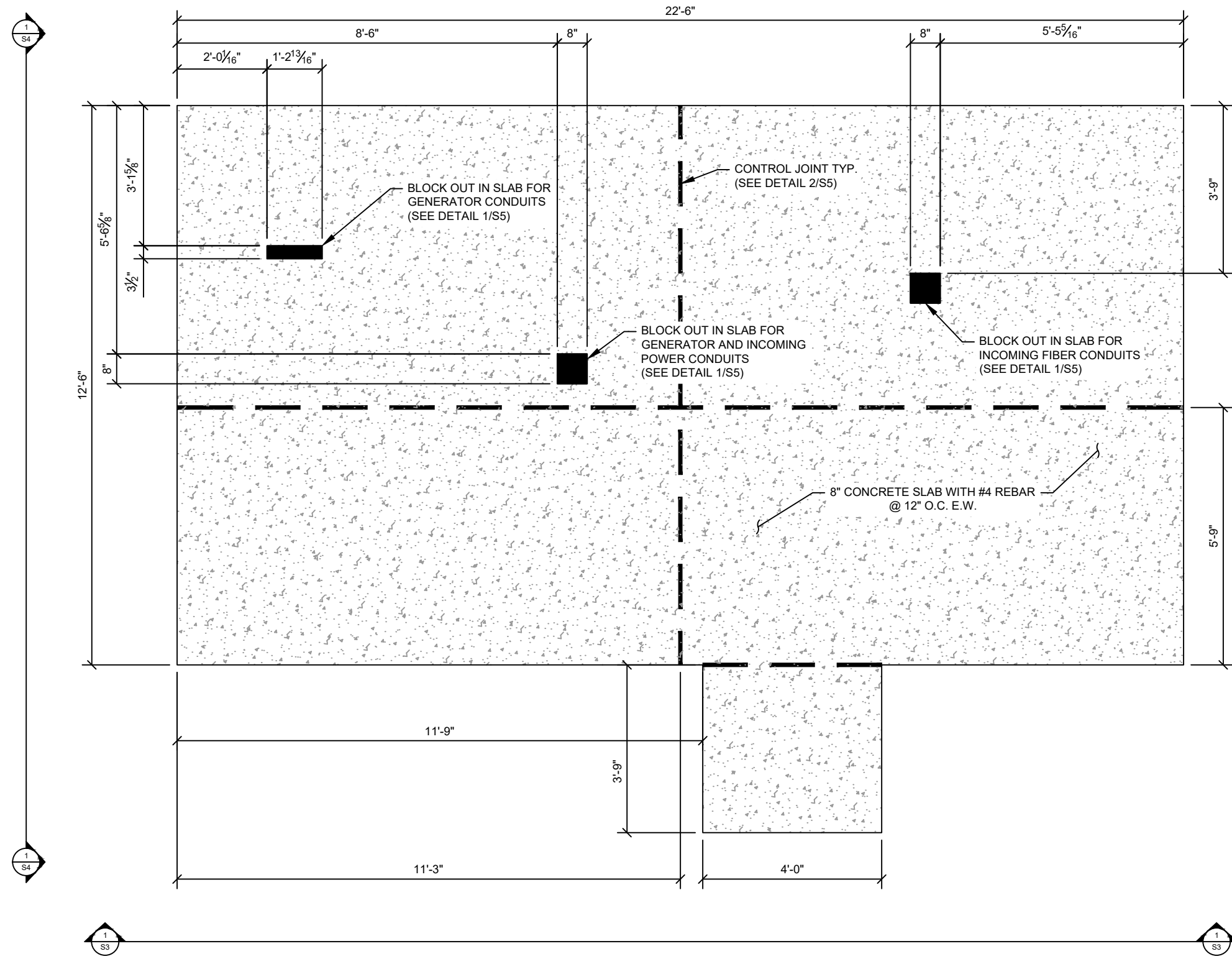
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1 FOUNDATION PLAN
S1

PROJECT INFORMATION:

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PETERSBURG, AK 99833
PETERSBURG COUNTY

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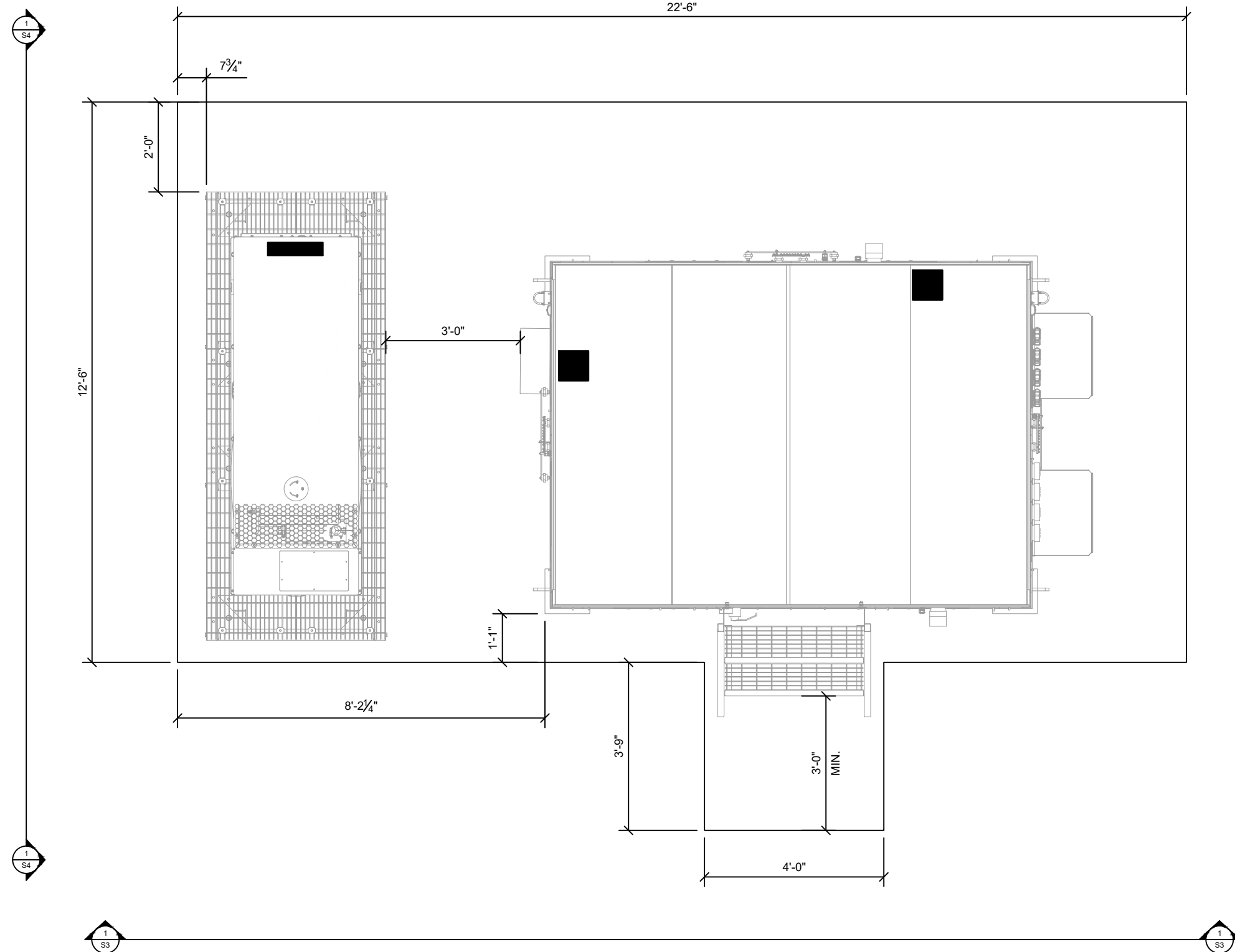
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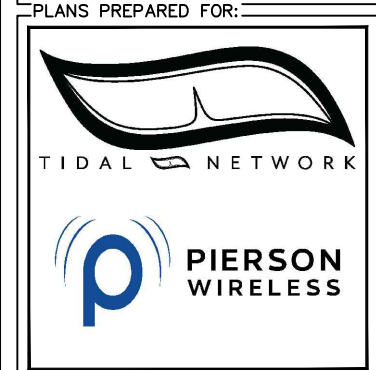
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1 FOUNDATION EQUIPMENT PLAN
S2

PROJECT INFORMATION:
 SITE NAME:
 PETERSBURG ZONE 01
 SITE No.: PSG-Z01
 1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:

11720 AMBER PARK DRIVE, SUITE 600
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 PHONE: 770-619-4280
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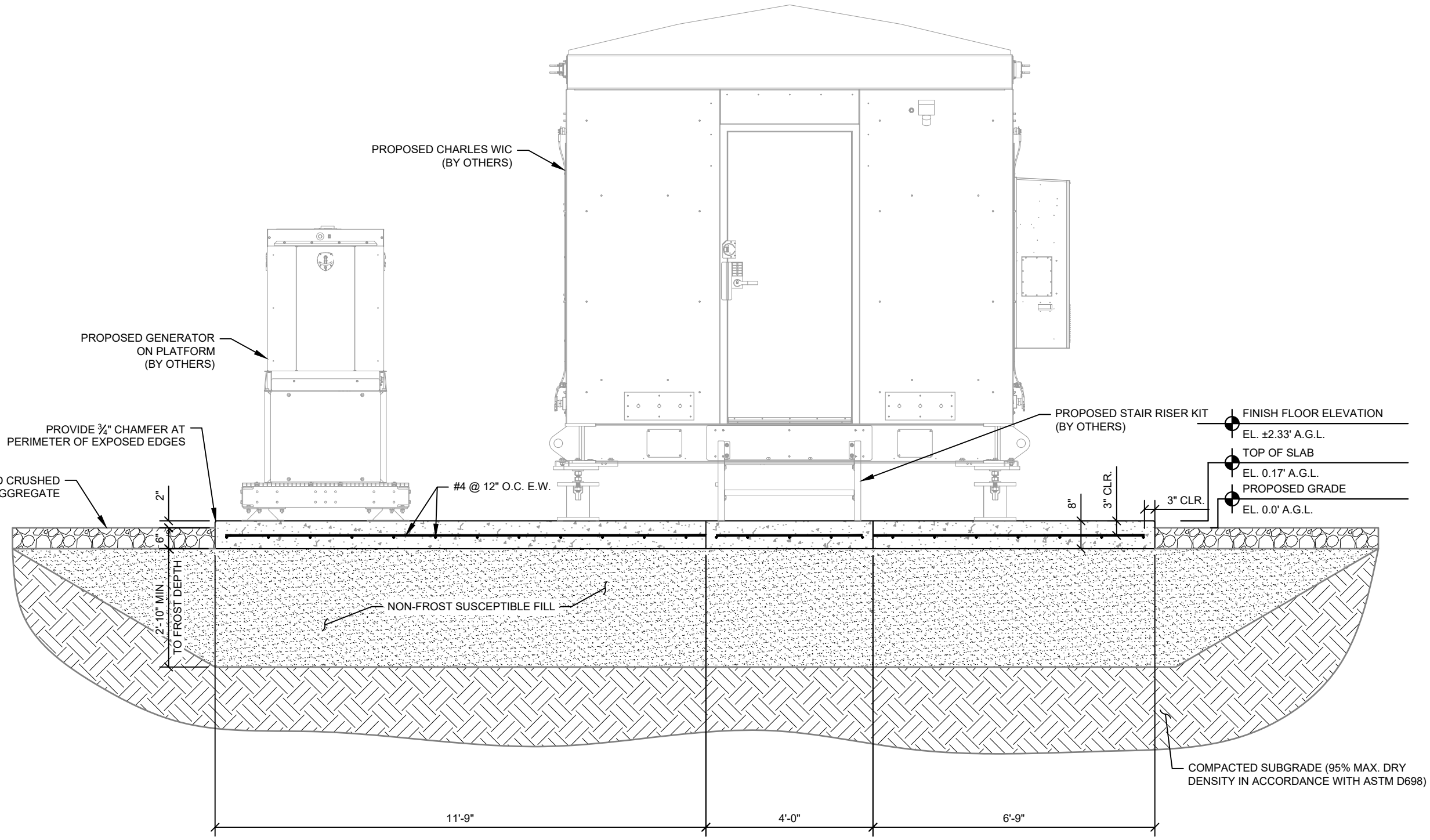
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1 FOUNDATION ELEVATION
S3

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:

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ALPHARETTA, GA 30009
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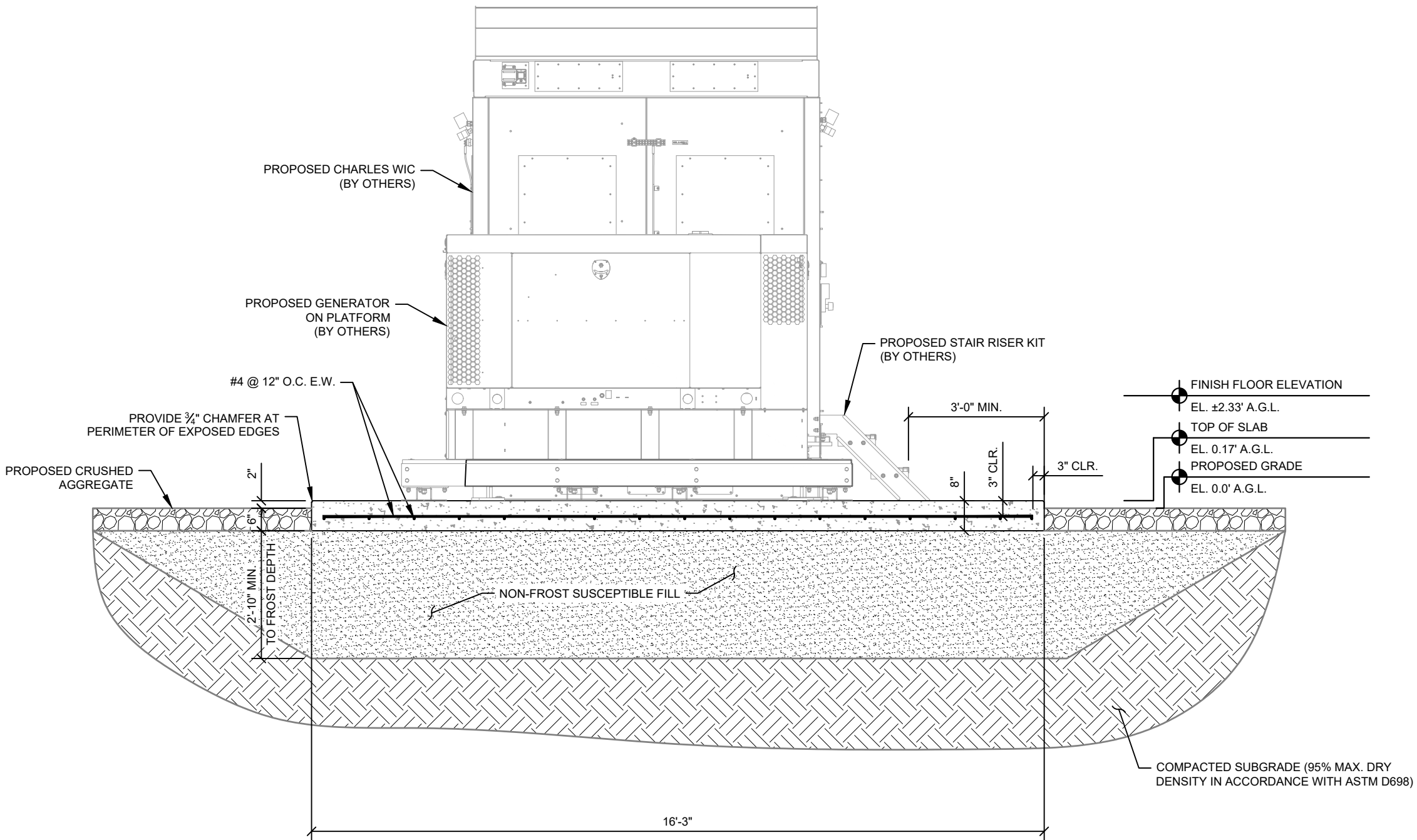
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1 FOUNDATION ELEVATION
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PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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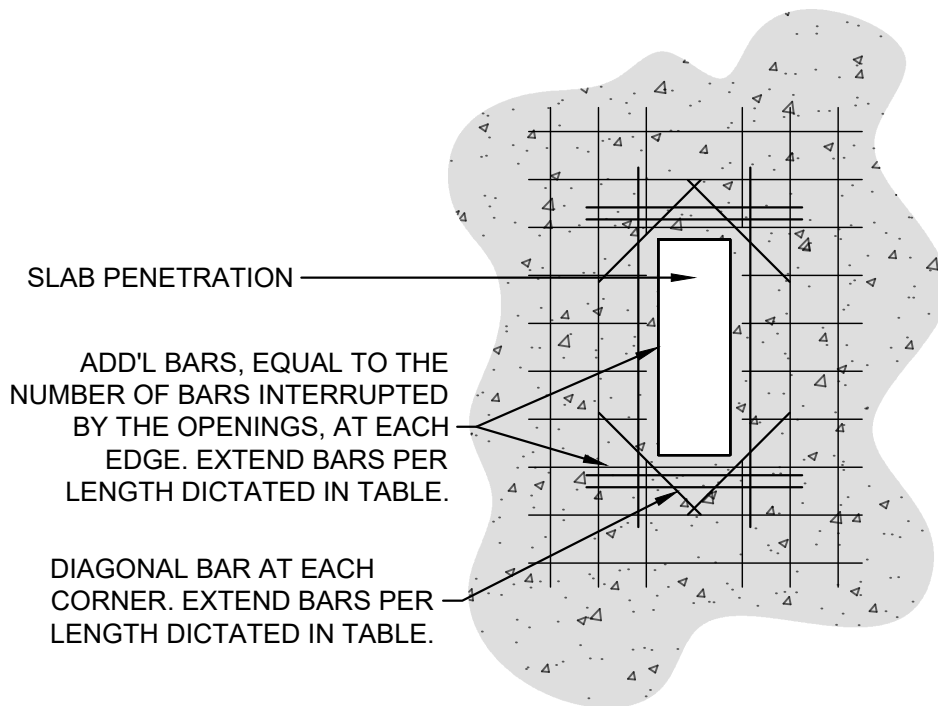
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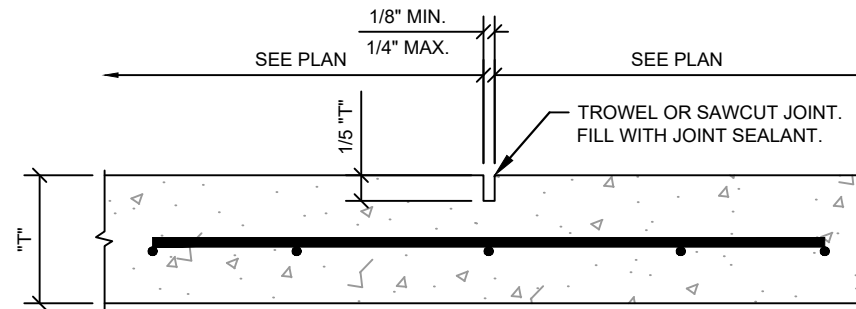


NOTE: PROVIDE 1-1/2" MINIMUM COVER FOR ALL REINFORCEMENT TO THE PENETRATION OPENINGS.

NOTE: OPENINGS SHALL BE A MINIMUM OF 6" FROM ALL CONCRETE EDGES. WHEN OPENINGS ARE CLOSER THAN 24" FROM CONCRETE EDGE, EXTEND ADD'L BARS TO WITHIN 2" OF CONCRETE EDGE AND BEND THE REMAINING LENGTH TO RUN PARALLEL WITH CONCRETE EDGE.

CONCRETE STRENGTH (psi)	≤ #6 BARS	≥ #7 BARS
4000	38d _b	47d _b
4500	36d _b	45d _b

d_b = BAR DIAMETER



1 BLOCK OUT REINFORCEMENT - TYPICAL
S5

2 SLAB CONTROL JOINT
S5

PROJECT INFORMATION:

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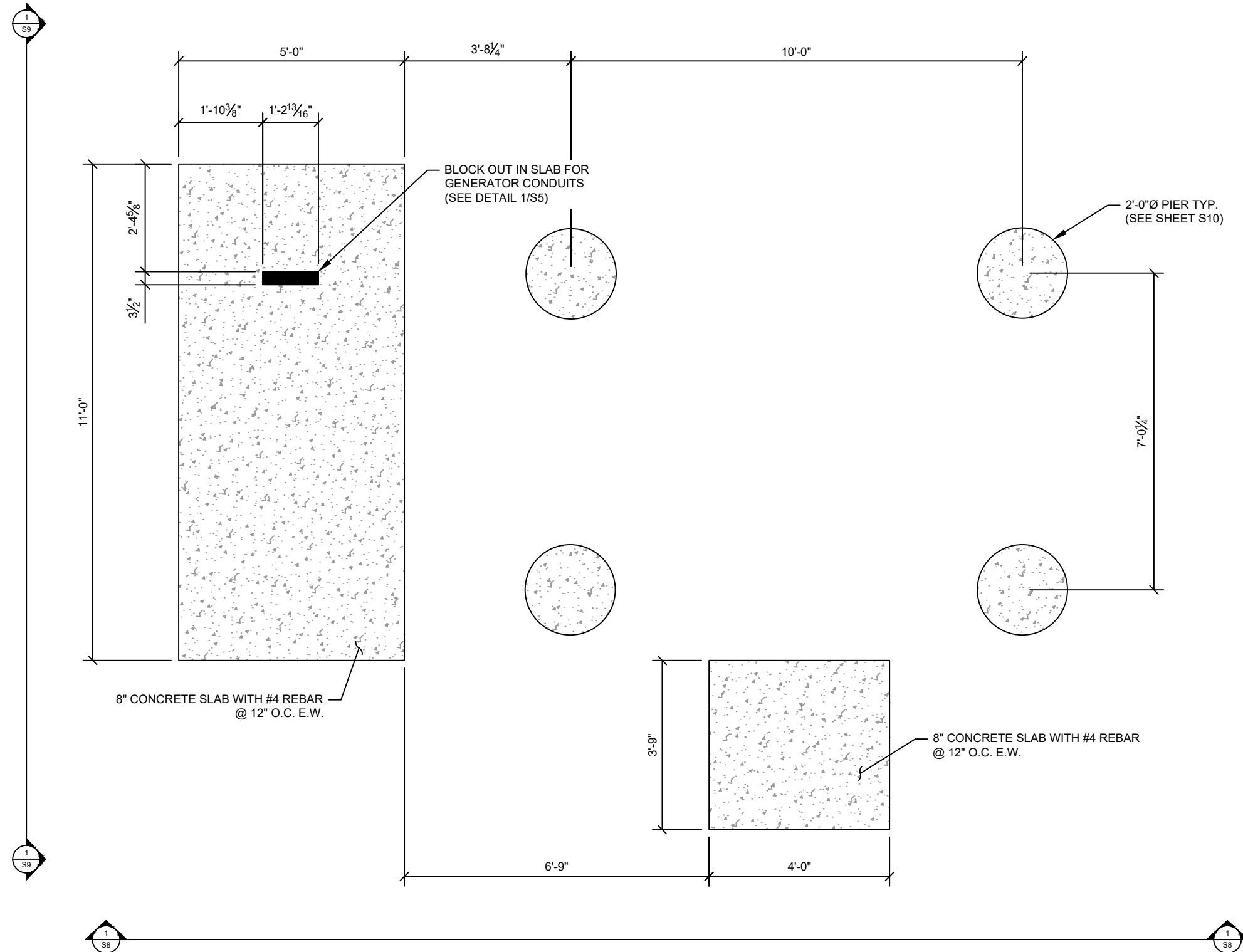
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1 ALT. FOUNDATION PLAN
S6

PROJECT INFORMATION:

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PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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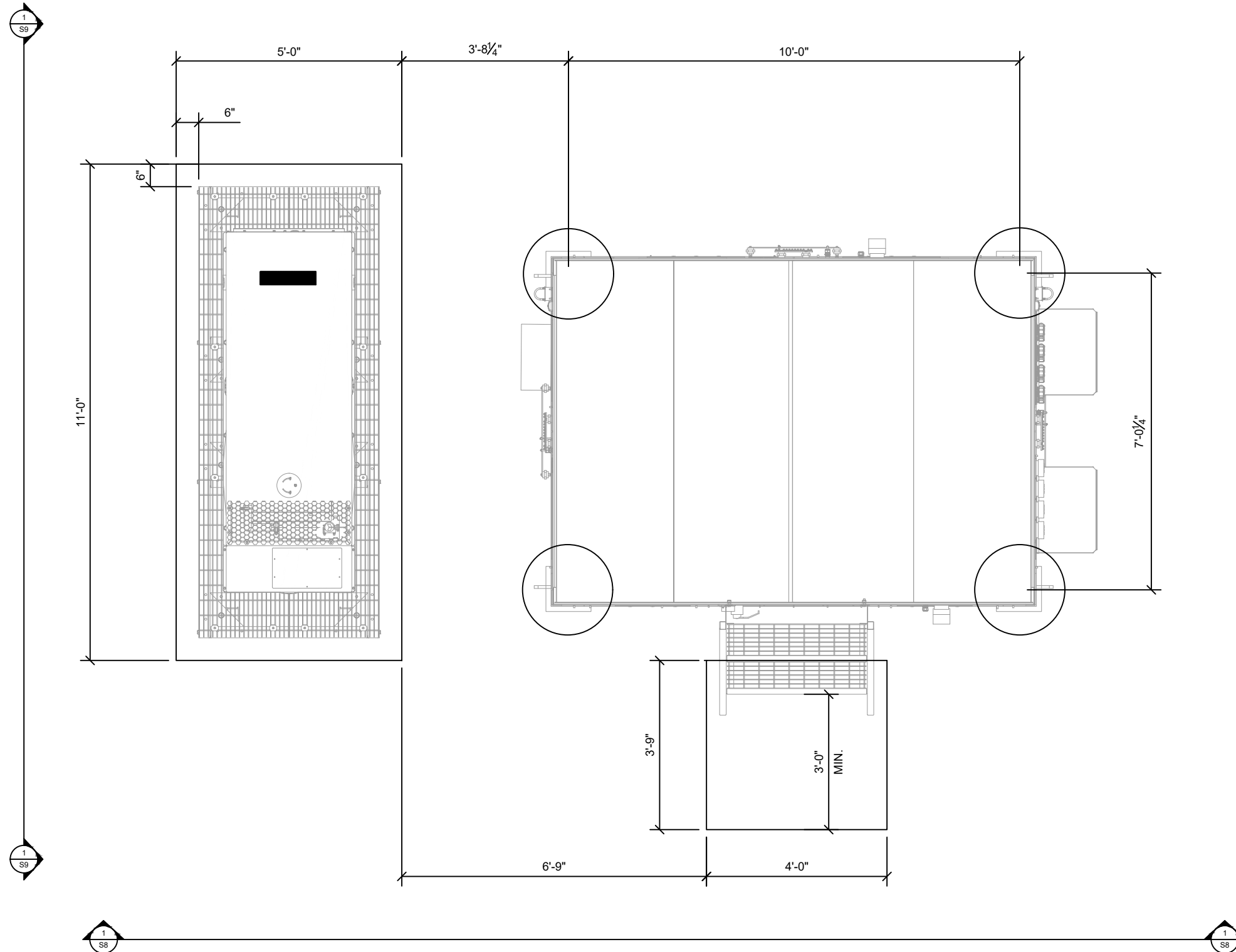
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S7 ALT. FOUNDATION EQUIPMENT PLAN

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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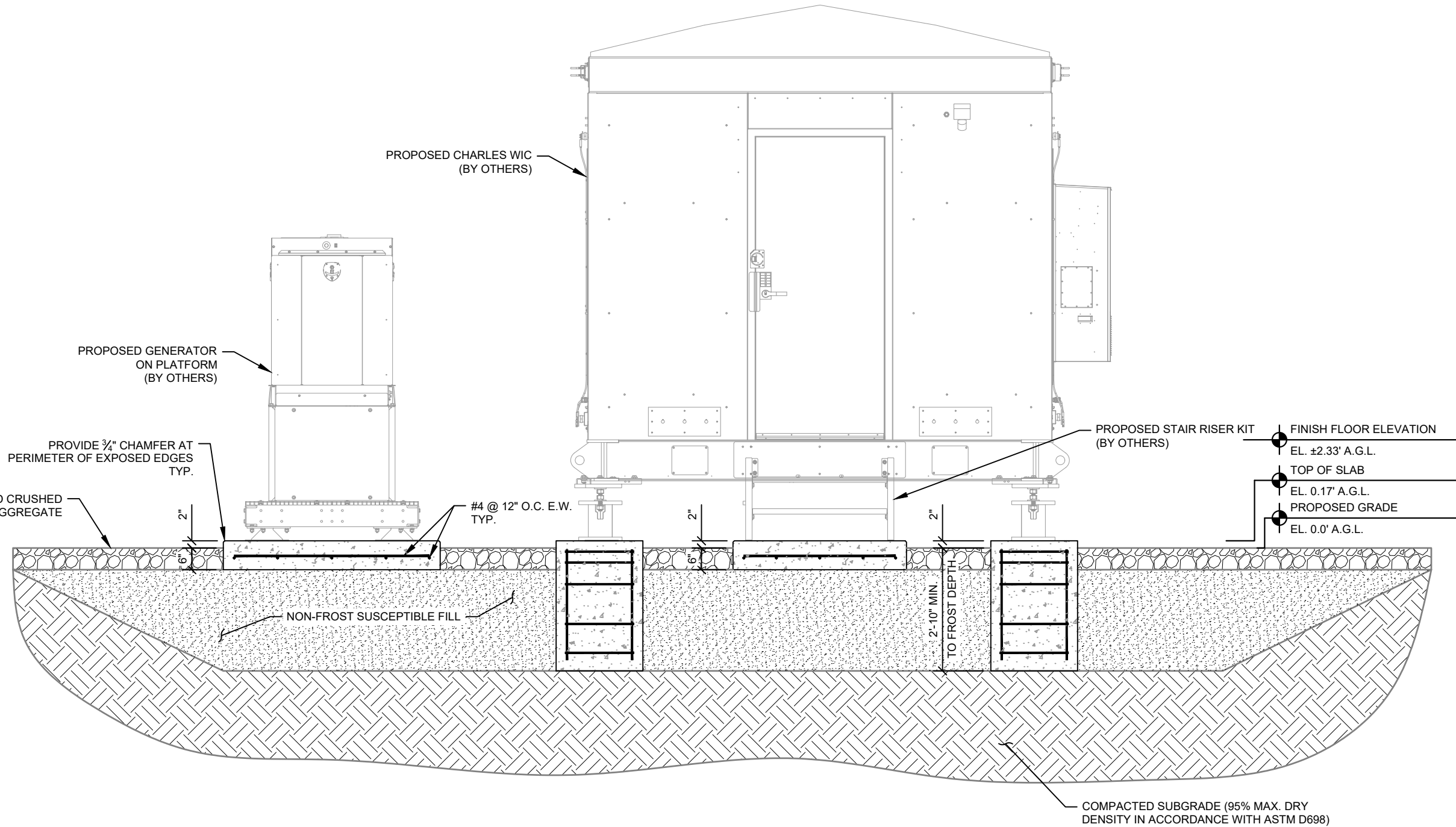
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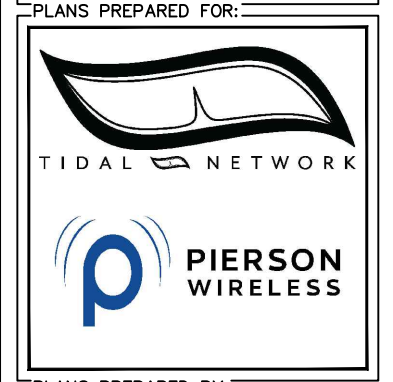
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1 ALT. FOUNDATION ELEVATION
S8

PROJECT INFORMATION:
 SITE NAME:
 PETERSBURG ZONE 01
 SITE No.: PSG-Z01
 1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:

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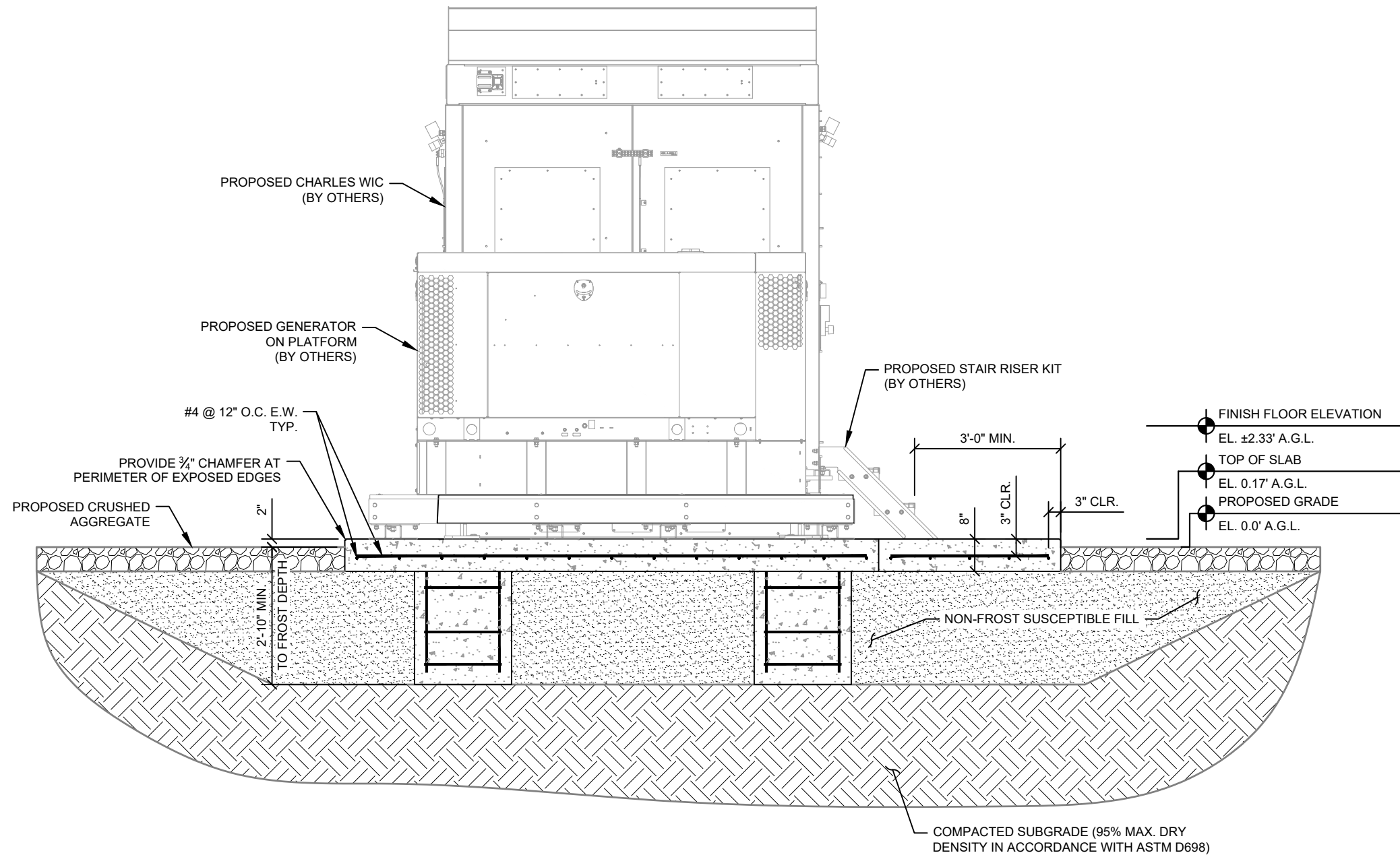
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1 ALT. FOUNDATION ELEVATION
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PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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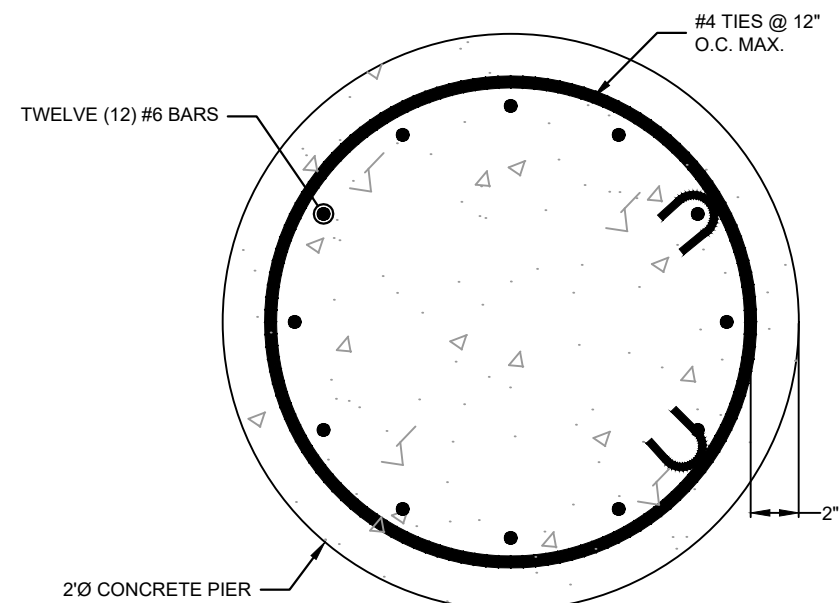
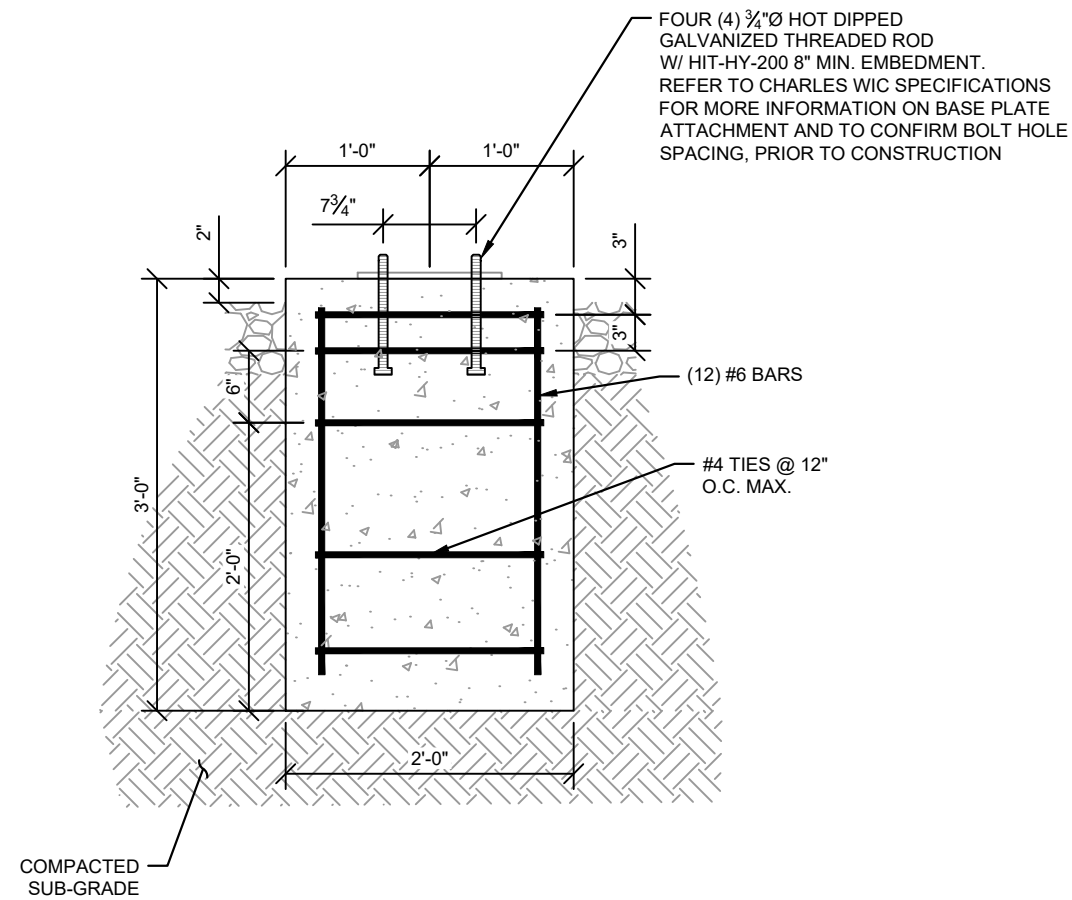
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1 PIER DETAIL
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2 CONCRETE PIER REINFORCEMENT
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PROJECT INFORMATION:

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**ALT. STRUCTURAL
DETAILS**

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ELECTRICAL NOTES

1.00 CODES, STANDARDS, & SPECIFICATIONS

- 1.01 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND LABOR RELATED DIRECTLY OR INDIRECTLY TO ALL ELECTRICAL WORK DOCUMENTED IN THESE DRAWINGS SHALL BE PROVIDED AND PERFORMED IN CONFORMANCE WITH ALL CURRENT GOVERNING CODES, STANDARDS, AND PROFESSIONAL STANDARD OF CARE TO INCLUDE THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), UNDERWRITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AMERICAN STANDARDS ASSOCIATION (ASA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND THE NATIONAL ELECTRICAL CODE (NEC).
- 1.02 MATERIALS SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE CURRENT GOVERNING STANDARDS ESTABLISHED FOR EACH ITEM BY ASTM, UL, NEMA, ASA, AND NFPA.
- 1.03 ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, AND MUNICIPAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT GOVERNING STANDARDS AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND THE LOCAL UTILITY COMPANY.
- 1.04 ALL ELECTRICAL GROUNDING SHALL COMPLY WITH THE CURRENT EDITION OF THE NEC.
- 1.05 CONTRACTOR SHALL MAINTAIN UL LISTED FIRE RATINGS AT ALL WALL PENETRATIONS.
- 1.06 CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 36" IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC. MINIMUM CLEARANCE SHALL BE OBSERVED FOR BOTH THE FRONT AND THE REAR OF THE METER H-FRAME RACK AND THE EQUIPMENT H-FRAME RACK.

2.00 GENERAL

- 2.01 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES RELATED TO THE PROJECT AND SHALL DELIVER A COPY OF ALL PERMITS TO THE VERIZON REPRESENTATIVE.
- 2.02 CONTRACTOR SHALL SCHEDULE AND SHOULD ATTEND ALL INSPECTIONS REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- 2.03 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC., FOR A COMPLETE WORKING ELECTRICAL INSTALLATION.
- 2.04 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER, AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 2.05 CONTRACTOR SHALL PROTECT ADJACENT EQUIPMENT AND FINISHES FROM DAMAGE AND SHALL REPAIR TO ORIGINAL CONDITION ANY ITEMS DAMAGED AS A RESULT OF THE WORK.
- 2.06 CONTRACTOR SHALL REPAIR ANY LANDSCAPING DISTURBED DURING CONSTRUCTION.
- 2.07 IF CONDUIT RUNS HAVE MORE THAN THREE (3) CONSECUTIVE 90 DEGREE TURNS, THE CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED BY NEC.
- 2.08 CONTRACTOR SHALL INDICATE THE LOCATION OF ALL CAPPED UNDERGROUND SPARE CONDUIT ON THE RECORD DRAWINGS SUBMITTED TO THE OWNER.
- 2.09 CONTRACTOR SHALL COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. ALL CONDUIT SHALL BE ROUTED WITHIN 3 FEET, EITHER SIDE, OF PERIMETER FENCING.

3.00 MATERIALS

- 3.01 ALL EQUIPMENT AND MATERIALS SHOWN SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 3.02 FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED BY VERIZON.
- 3.03 CONTRACTOR SHALL PROVIDE AN UPDATED PANELBOARD DIRECTORY FOR THE PANEL FROM WHICH THE NEW VERIZON EQUIPMENT CIRCUIT WILL BE CONNECTED. CONTRACTOR SHALL SUBMIT UPDATED DIRECTORY IN A PLASTIC COVER TO THE BUILDING OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- 3.04 CONTRACTOR SHALL FIELD DETERMINE ACTUAL CONDUIT ROUTING AND SHALL OBTAIN APPROVAL FROM THE TOWER OWNER OF THE PROPOSED ROUTING PRIOR TO CONDUIT INSTALLATION.
- 3.05 ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION AND ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75 DEGREES CELSIUS.
- 3.06 ALL NEUTRAL CONDUCTORS SHALL HAVE WHITE INSULATION. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT PERMITTED.
- 3.07 CONTRACTOR SHALL SEAL ALL CONDUITS ENTERING AN ENCLOSURE WITH CONDUIT SEALANT THAT IS COMPATIBLE WITH THE INSULATION OF THE CONDUCTORS IN THE CONDUIT.
- 3.08 CONDUIT RUNS SHALL HAVE A CONTINUOUS DOWNWARD SLOPE AWAY FROM ALL EQUIPMENT TO PREVENT WATER INFILTRATION.
- 3.09 ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON THE PLANS. WHEN CONDUIT IS ROUTED UNDER A ROADWAY, SCHEDULE 80 PVC CONDUIT SHALL BE UTILIZED. MANUFACTURED BEND RADII SHALL BE PER NEC.
- 3.10 CONTRACTOR SHALL PROVIDE TWO (2) 200 POUND TEST POLYETHYLENE PULL CORDS IN ALL CONDUITS AND ALL INNERDUCTS. PULL CORDS SHALL BE SECURED AT EACH END OF CONDUIT RUNS. ALL SPARE CONDUIT ENDS SHALL BE CAPPED WITH MANUFACTURED PVC FITTINGS.
- 3.11 CONTRACTOR SHALL BOND EACH METALLIC CONDUIT ENTERING A METALLIC ENCLOSURE WITH A #8 MIN AWG INSULATED COPPER BONDING JUMPER PER NEC. CONTRACTOR SHALL BOND ALL ELECTRICAL EQUIPMENT TO THE H-FRAME RACK ON WHICH EQUIPMENT IS MOUNTED WITH #8 MIN AWG INSULATED COPPER BONDING JUMPERS PER NEC.
- 3.12 CONTRACTOR SHALL IDENTIFY THE END OF ALL SPARE UNDERGROUND CONDUITS AND PROVIDE AND INSTALL 90 DEGREE ELBOWS WITH VERTICAL CONDUIT EXTENSIONS TO EXTEND 3" ABOVE FINISHED CRUSHED AGGREGATE GRADE. CONTRACTOR SHALL TERMINATE CONDUITS WITH MANUFACTURED CONDUIT CAPS THAT THE CONTRACTOR HAS PAINTED ORANGE.
- 3.13 CONTRACTOR SHALL PROVIDE AND INSTALL AN ENGRAVED PHENOLIC PLATE ON THE FRONT OF THE INTEGRATED LOAD CENTER. THE WORDING ON THE PLATE SHALL READ AS FOLLOWS: "MAXIMUM DRAW OF ALL RECTIFIERS AND EQUIPMENT ON THE LOAD CENTER CANNOT EXCEED 30kW. IF ADDITIONAL POWER IS REQUIRED, THE EXISTING 30kW GENERATOR MUST BE REPLACED."

4.00 PRE-CONSTRUCTION COORDINATION

- 4.01 CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND NOTE EXISTING CONDITIONS THAT MIGHT AFFECT THEIR WORK. ALL SUCH CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID.
- 4.02 THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND SHALL VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 4.03 CONTRACTOR SHALL VERIFY, PRIOR TO ROUGH-IN, THAT SITE CONDITIONS ALLOW FOR THE PLACEMENT OF THE ELECTRICAL EQUIPMENT AS SHOWN ON THE PLANS.
- 4.04 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY REGARDING THE EXACT LOCATION OF THE TRANSFORMER, ALL METERING REQUIREMENTS, AND CONDUIT ROUTING BETWEEN TRANSFORMER AND METER.
- 4.05 CONTRACTOR SHALL COORDINATE WITH LOCAL TELCO UTILITY REGARDING THE EXACT LOCATION OF THE TELCO SERVICE ENTRY POINT.
- 4.06 CONTRACTOR SHALL COORDINATE WITH AUTHORITY HAVING JURISDICTION REGARDING LOCAL FROST LINE REQUIREMENTS FOR RACEWAY MATERIAL SELECTION AND INSTALLATION.
- 4.07 CONTRACTOR SHALL PERFORM AN ARC FLASH ANALYSIS AT THE INTEGRATED LOAD CENTER AND PROVIDE ARC FLASH LABEL PER NEC.
- 4.08 ALL CIRCUIT BREAKERS AND EQUIPMENT SHALL HAVE A MINIMUM AIC RATING OF 10,000 AMPS. IF THE RATING OF THE UTILITY TRANSFORMER PROVIDING THE ELECTRICAL SERVICE IS GREATER THAN 75 kVA, THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT ANALYSIS TO DETERMINE THE REQUIRED AIC RATING FOR THE CIRCUIT BREAKERS AND EQUIPMENT. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT (AFC) AT THE UTILITY SERVICE POINT. PROVIDE MAX. AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT.

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
WWW.KIMLEY-HORN.COM

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KHA PROJECT NUMBER:

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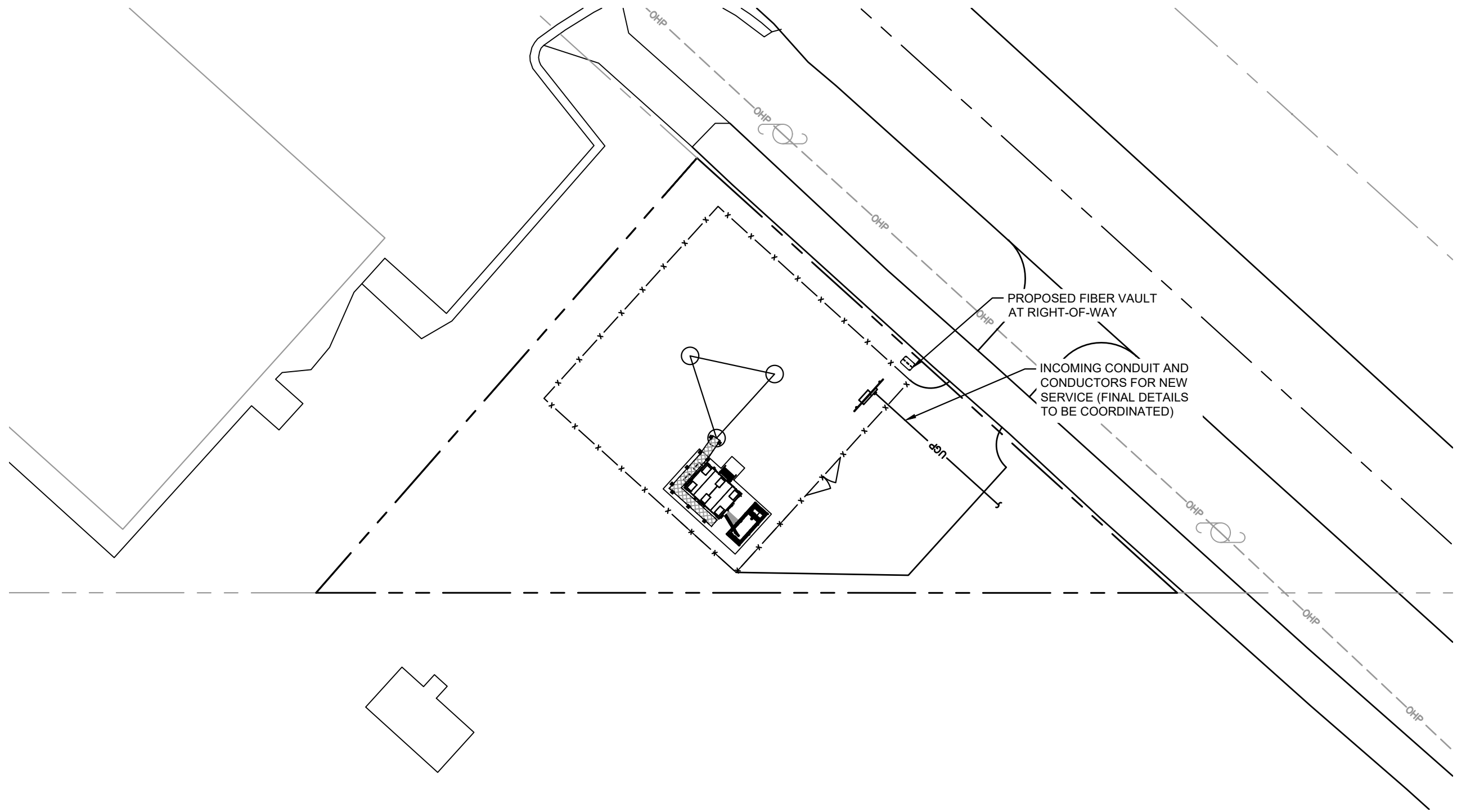
**ELECTRICAL
NOTES**

SHEET NUMBER:

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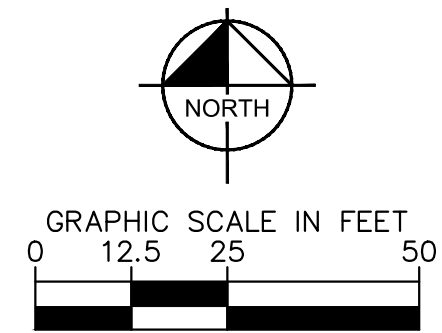
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OVERALL UTILITY SERVICE ROUTING PLAN

POWER NOTES:
PENDING POWER COORDINATION.



PROJECT INFORMATION:

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1200 HAUGEN DRIVE
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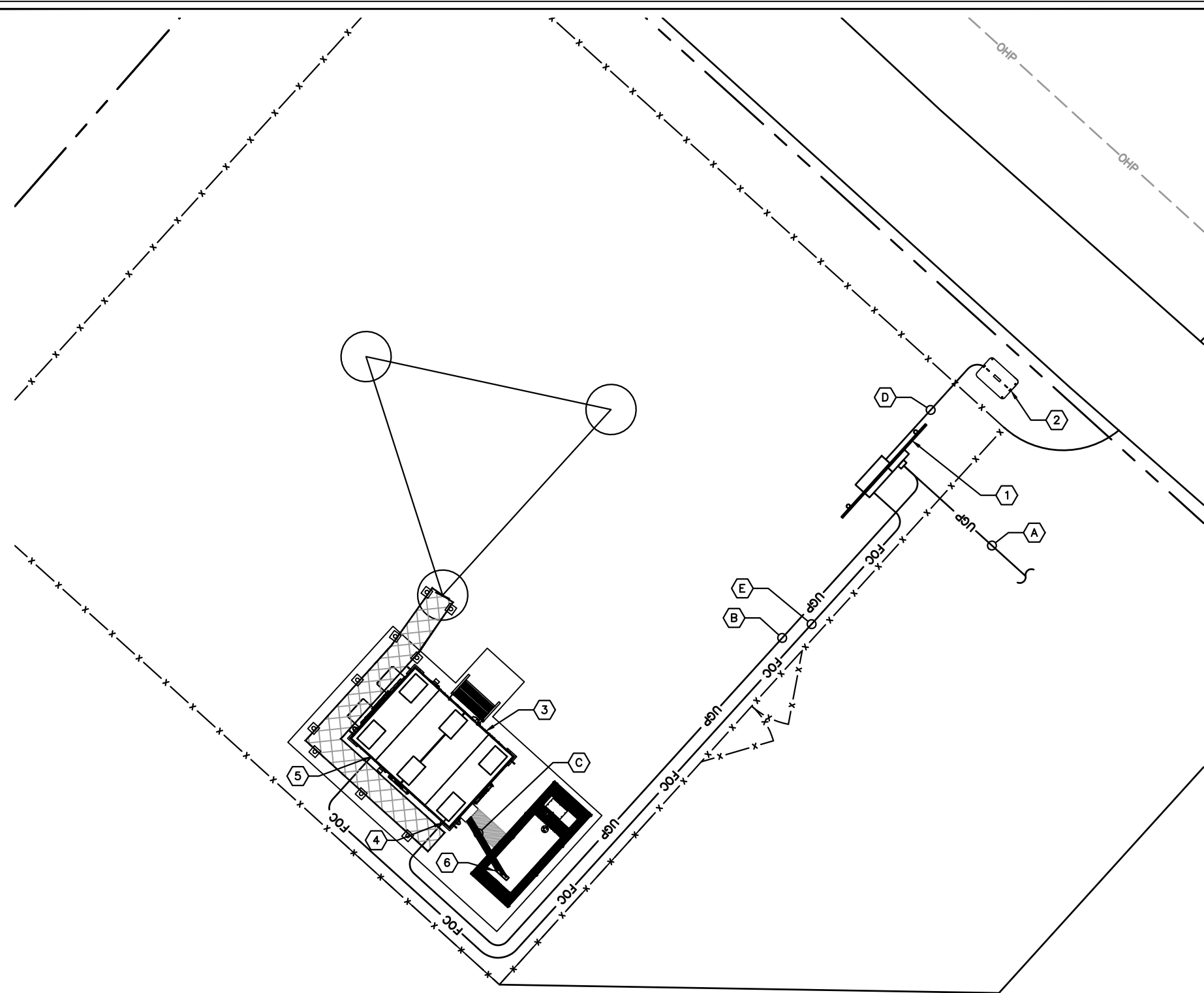
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**OVERALL UTILITY
SERVICE ROUTING
PLAN**

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KEY NOTES - ELECTRICAL EQUIPMENT

- ① UTILITY METER H-FRAME (SEE DETAIL 1/E3).
- ② PROPOSED FIBER HANDHOLE.
- ③ PROPOSED CHARLES WIC.
- ④ PROPOSED BLOCK-OUT LOCATION FOR POWER CONDUITS NEAR ATS. BENEATH WIC.
- ⑤ PROPOSED BLOCK-OUT LOCATION FOR FIBER CONDUITS BENEATH WIC.
- ⑥ PROPOSED GENERATOR WITH BLOCK-OUT FOR INCOMING CONDUITS.

KEY NOTES - CONDUIT, CONDUCTORS, & MISC.

- A TWO (2) 4" PVC POWER CONDUITS FOR INCOMING SERVICE LATERALS FROM LOCAL UTILITY (SEE TRENCH DETAIL 2/E5).
- B ONE (1) 2" PVC POWER CONDUIT FROM PROPOSED METER RACK TO ATS (±66 LF) (SEE TRENCH DETAIL 2/E5).
- C ONE (1) 1½" PVC CONDUIT AND (2) 1" PVC CONDUITS FROM ATS TO GENERATOR FOR POWER AND COMMUNICATION CABLES (±6 LF PER) (SEE SINGLE LINE 1/E4) (SEE TRENCH DETAIL 2/E5).
- D TWO (2) 4" PVC CONDUITS, FOR FIBER, FROM FIBER HANDHOLE TO MULTI-TENANT NEMA BOX ON H-FRAME (±12 LF PER) (SEE TRENCH DETAIL 2/E5).
- E ONE (1) 2" PVC CONDUIT, FOR FIBER, FROM MULTI-TENANT NEMA BOX ON H-FRAME BLOCK-OUT IN TIDAL NETWORK EQUIPMENT AREA (±70 LF) (SEE TRENCH DETAIL 2/E5).

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PETERSBURG ZONE 01
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1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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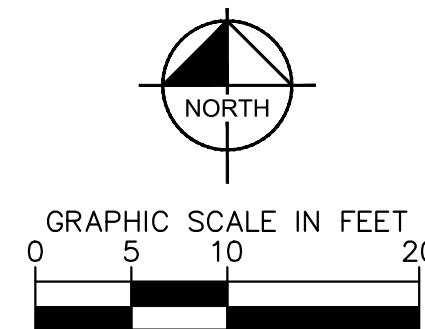
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**COMPOUND
UTILITY ROUTING
PLAN**

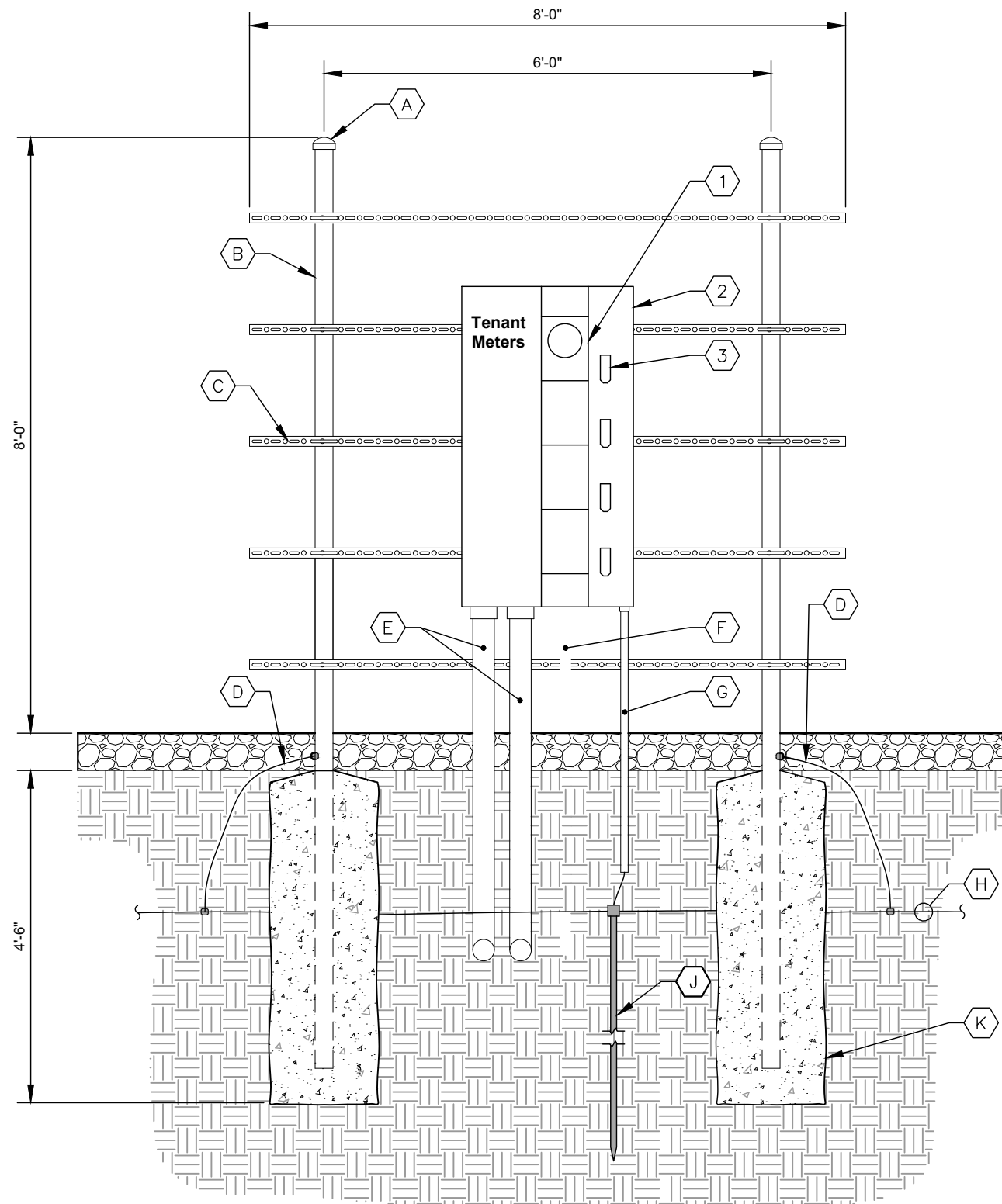
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E2
COMPOUND UTILITY ROUTING PLAN



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KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A GALVANIZED RIGID STEEL CAP, TYPICAL.
- B 3" GALVANIZED RIGID STEEL PIPE, TYPICAL.
- C 1 1/2" x 1 1/2" GALVANIZED STEEL CHANNEL (UNISTRUT #P1000 OR APPROVED EQUIVALENT) WITH PLASTIC END CAP (UNISTRUT #P2860), TYPICAL.
- D ONE (1) #2 AWG BARE SOLID TINNED COPPER BONDING CONDUCTOR IN 3/4" PVC CONDUIT FROM H-FRAME VERTICAL PIPE TO GROUND RING, EXOTHERMIC WELD BOTH ENDS.
- E 4" PVC CONDUIT FOR INCOMING SERVICE LATERALS FROM LOCAL UTILITY, TYPICAL OF 2.
- F 1" PVC WITH ONE (1) - 2/0 BARE STRANDED TINNED COPPER GROUNDING ELECTRODE CONDUCTOR (GEC) TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.
- G GROUND RING (SEE SHEETS E8-E9).
- H GROUND ROD, EXOTHERMIC WELD TO GROUND RING
- J CONCRETE FOUNDATION FOR H-FRAME VERTICAL PIPE. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

KEY NOTES - ELECTRICAL EQUIPMENT

- 1 200 AMP METER SOCKET IN NEMA 3R ENCLOSURE, TYPICAL OF 4. ONLY TOP WILL RECEIVE METER UNDER THIS CONTRACT.
- 2 600 AMP, 22KAIC (VERIFY FAULT CURRENT WITH LOCAL UTILITY), 4 GANG, SERVICE ENTRANCE RATER METER CENTER IN NEMA 3R ENCLOSURE. BOND TO RACK PER NEC.
- 3 200 AMP, 2 POLE, 22KAIC (VERIFY FAULT CURRENT WITH LOCAL UTILITY) DISCONNECT CIRCUIT BREAKER FOR TOP METER ONLY. CONTRACTOR SHALL MOUNT THE METER CENTER SUCH THAT THE TOP CIRCUIT BREAKER IS NO MORE THAN 6" ABOVE GRADE.

NOTE
INSTALL 36"X36"X12" MULTI-TENANT NEMA BOX ON THE REAR SIDE OF THE H-FRAME. FRONT SIDE ONLY SHOWN, FOR CLARITY

1 METER RACK DETAILS
E3 NOT TO SCALE

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



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ALPHARETTA, GA 30009
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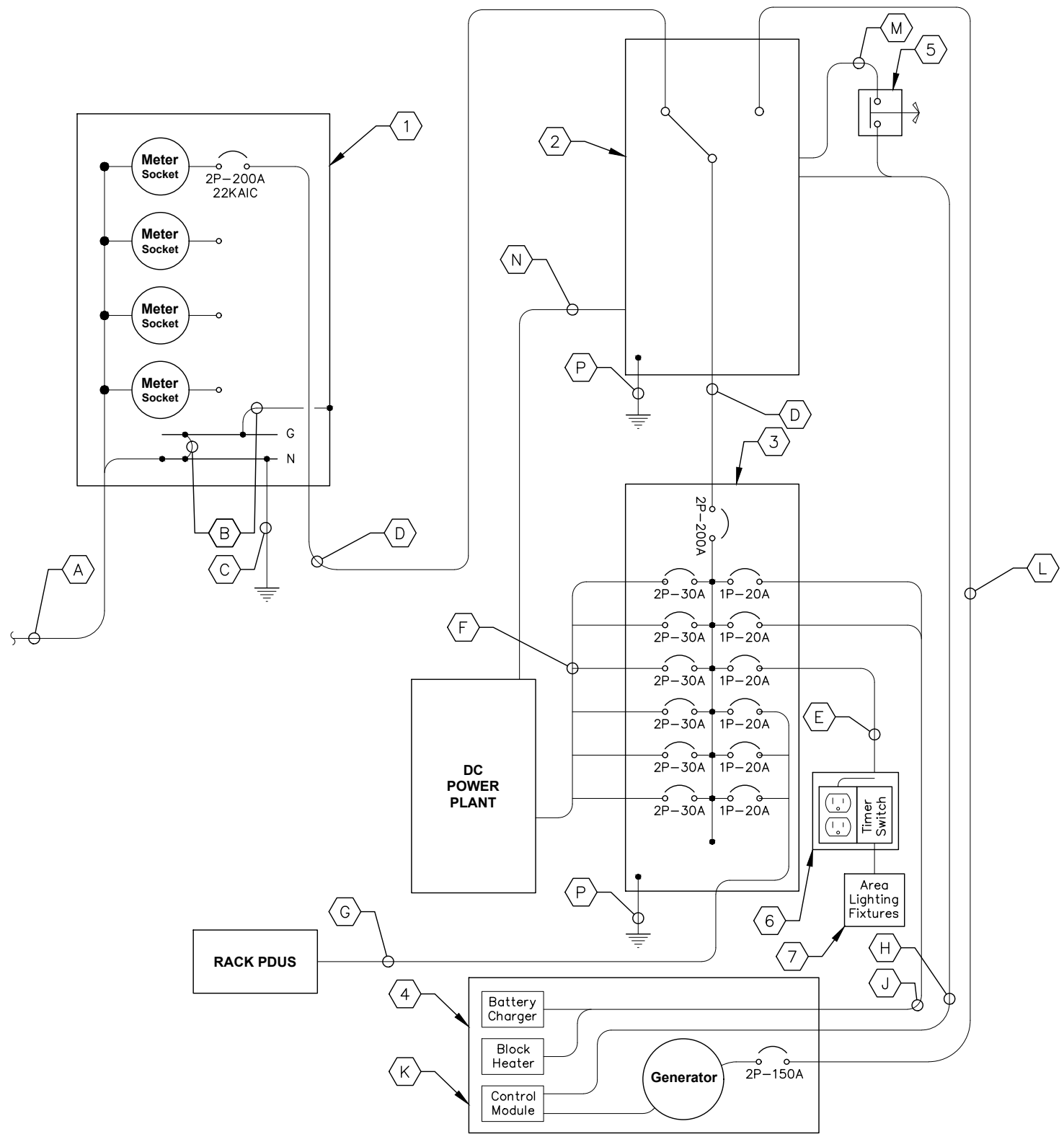
SHEET TITLE:

**METER RACK
DETAILS**

SHEET NUMBER:

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REQUIRED SIGNAGE PER NEC 702 AT SERVICE DISCONNECT
"WARNING: Shock hazard exists if grounding electrode conductor or bonding jumper connection in this equipment is removed while alternate source(s) is energized. Opening the equipment disconnect will cause the stand-by generator to start. To remove power entirely from the equipment, the generator must be turned OFF and the generator circuit breaker must be open."

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E4 **ELECTRICAL SINGLE LINE DIAGRAM**
 NOT TO SCALE

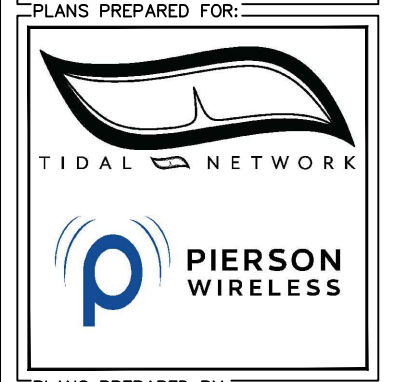
KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A** TWO (2) 4" CONDUITS EA. WITH THREE (3) 3/0 CONDUCTORS BY CONTRACTOR FOR INCOMING SERVICE LATERALS BY LOCAL UTILITY FOR 600 AMP, 120/240 VOLT SINGLE PHASE SERVICE.
- B** BOND GROUND BUS TO NEUTRAL BUS AND GROUND BUS TO ENCLOSURE WITH 2/0 BONDING JUMPERS.
- C** ONE (1) 2/0 AWG BARE TINNED COPPER GROUNDING ELECTRODE CONDUCTOR (GEC) TO GROUND ROD, EXOTHERMIC WELD GEC TO GROUND ROD.
- D** THREE (3) 3/0 CONDUCTORS AND ONE (1) #6 AWG GROUND IN 2" CONDUIT.
- E** TWO (2) #12 AWG CONDUCTORS AND ONE (1) #12 AWG GROUND IN 1" CONDUIT.
- F** TWO (2) #10 AWG CONDUCTORS AND ONE (1) #10 AWG GROUND FOR 30 AMP RECTIFIER CIRCUITS. CONDUCTORS TO ROUTE DIRECTLY TO DC POWER PLANT FROM POWER PANEL WITHIN CHARLES WIC.
- G** SIX (6) #12 AWG CONDUCTORS AND THREE (3) #12 AWG GROUNDS FOR 20 AMP FOR RACK PDUS EA. IN 1/2" CONDUIT.
- H** AUTOMATIC TRANSFER SWITCH ALARM AND GENERATOR CONTROL CABLES IN 1" CONDUIT.
- J** FOUR (4) #12 CONDUCTORS AND ONE (1) #12 AWG GROUND IN 1" CONDUIT.
- K** THE GENERATOR, WHEN UTILIZING A TWO POLE ATS WITH A SOLID NEUTRAL, IS NOT A SEPARATELY DERIVED SYSTEM. THEREFORE, DO NOT BOND THE NEUTRAL TO THE GROUND AT THE GENERATOR.
- L** THREE (3) 1/0 AWG CONDUCTORS AND ONE (1) #6 AWG EG IN 1 1/2" CONDUIT. VERIFY GENERATOR BREAKER DOES NOT EXCEED 150 AMPS.
- M** 1" PVC CONDUIT FOR ROUTING POWER CONDUCTORS FROM THE ILC TO THE EMERGENCY GENERATOR STOP SWITCH.
- N** ALARM CABLES IN 1" PVC CONDUIT.
- P** ONE (1) #2 AWG BARE TINNED COPPER GROUND LEAD FROM GROUNDING LUG IN TO GROUND ROD, EXOTHERMIC WELD TO GROUND ROD.

KEY NOTES - ELECTRICAL EQUIPMENT

- 1** FURNISH AND INSTALL 600 AMP, 3-WIRE, SINGLE PHASE, 120/240 VOLT, 22KAIC (VERIFY FAULT CURRENT WITH LOCAL UTILITY), FOUR-SPACE MULTI-GANG METER CENTER WITH 200 AMP RATED METER SOCKETS IN NEMA 3R ENCLOSURE, SE RATED. CONTRACTOR SHALL FURNISH AND INSTALL 200 AMP CIRCUIT BREAKER AT METER BASE IF NOT ALREADY EXISTING.
- 2** FURNISH AND INSTALL 200 AMP, 120/240V VOLT, ILC BY GENERAC (RXSC200A3 OR APPROVED EQUIVALENT) WITH 20 SPACE PANEL AND AUTOMATIC TRANSFER SWITCH. ALL CIRCUITS BREAKERS SHALL BE RATED 10KAIC MINIMUM. LOCATE ATS ON EXTERIOR OF CHARLES WIC PER SITE PLAN.
- 3** FURNISH AND INSTALL 125 AMP, 120/240V VOLT, 20 SPACE MCB LOAD CENTER INSIDE CHARLES WIC. ALL CIRCUITS BREAKERS SHALL BE RATED 10KAIC MINIMUM.
- 4** FURNISH AND INSTALL 30 KW DIESEL GENERATOR (GENERAC RA03022ADAL OR APPROVED EQUIVALENT). CONTRACTOR SHALL COORDINATE SPECIFIC GENERATOR CONFIGURATION WITH OWNER AND INSTALL THE GENERATOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. GENERATOR BREAKER SIZED AND PROVIDED BY GENERATOR MANUFACTURER.
- 5** FURNISH AND INSTALL EMERGENCY GENERATOR STOP SWITCH IN NEMA 3R ENCLOSURE.
- 6** FURNISH AND INSTALL 20 AMP GFCI DUPLEX OUTLET RECEPTACLE AND TIMER SWITCH, ENERLITES HET06 SERIES (OR APPROVED EQUIVALENT) IN LOCKABLE NEMA 3R ENCLOSURE.
- 7** FURNISH AND INSTALL TWO (2) AREA LIGHTS, (LITHONIA HFR-250M-TA120-DNA-LP1), (OR APPROVED EQUIVALENT).

PROJECT INFORMATION:
 SITE NAME:
 PETERSBURG ZONE 01
 SITE No.: PSG-Z01
 1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY



PLANS PREPARED BY:
Kimley»Horn
 11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
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KHA PROJECT NUMBER:
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 DRAWN BY: RBV CHECKED BY: TRN

SHEET TITLE:
ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER:
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TIDAL NETWORK - PSG-Z01											
Voltage: 240/120 Volts Phase, Wires: Single Phase, 3 Wire Mounting Type: Surface Enclosure Type: NEMA 3R					MCB Size: 200 A AIC Rating: 10,000 Amps min Bus Rating: 200 A Neutral Rating: 100%						
Load Served	Load (kVA)		Circuit Bkr Size	Ckt Nbr	Phase		Ckt Nbr	Circuit Bkr Size	Load (kVA)		Load Served
	A	B			A	B			A	B	
Rectifier #1	1.00		2P-30	1	*		2	2P-30	1.00		Rectifier #2
		1.00		3		*	4				
Rectifier #3	1.00		2P-30	5	*		6	2P-30	1.00		Rectifier #4
		1.00		7		*	8				
Rectifier #5	1.00		2P-30	9	*		10	2P-30	1.00		Rectifier #6
		1.00		11		*	12				
Rack PDU #1	0.22		1P-20	13	*		14	1P-20	0.22		Lights/GFCI
Rack PDU #2		0.22	1P-20	15		*	16	1P-20		0.22	Rack PDU #3
Space			---	17	*		18	1P-20	1.50		*Generator Block Heater
Space			---	19		*	20	1P-20		0.30	*Generator Battery Charger
Space			---	21	*		22	---			Space
Space			---	23		*	24	---			Space
Space			---	25	*		26	---			Space
Space			---	27		*	28	---			Space
Space			---	29	*		30	---			Space
Sub-Total (kVA)	3.22	3.22							4.72	3.52	Sub-Total (kVA)

		A	B		
		7.94	6.74		
		14.68		Total Connected (kVA)	
Load Description	Connected Load (kVA)	Demand Factor	Demand Load (kVA)		
	A	B	A	B	
Rectifiers/Equipment	6.00	6.00	1.00	6.00	6.00
Largest Motor	0.00	0.00	1.25	0.00	0.00
All Other Motors	0.00	0.00	1.00	0.00	0.00
Lighting	0.00	0.00	1.25	0.00	0.00
Duplex Receptacles	0.44	0.44	1.25	0.55	0.55
Total Miscellaneous	1.50	0.30	1.25	0.00	0.38
Total Power per Phase			6.55	6.93	kVA
Total Demand Current per Phase			54.58	57.71	Amps
Total Demand Power			13.48		kVA
*Generator Load			12.80		

*Note: Charger load removed and heater load demand demand factor reduced to 1.00 during generator operation.

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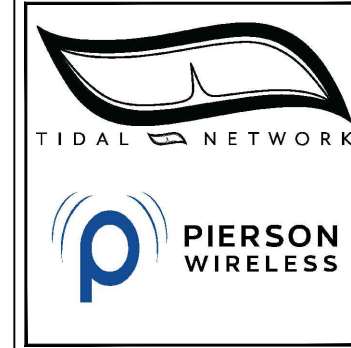
PANEL SCHEDULES

PROJECT INFORMATION:

SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01

1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY

PLANS PREPARED FOR:



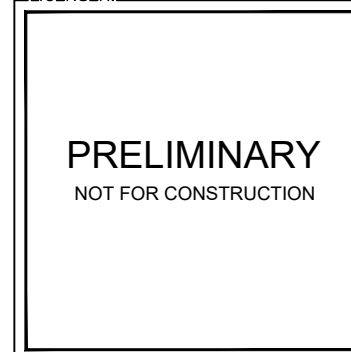
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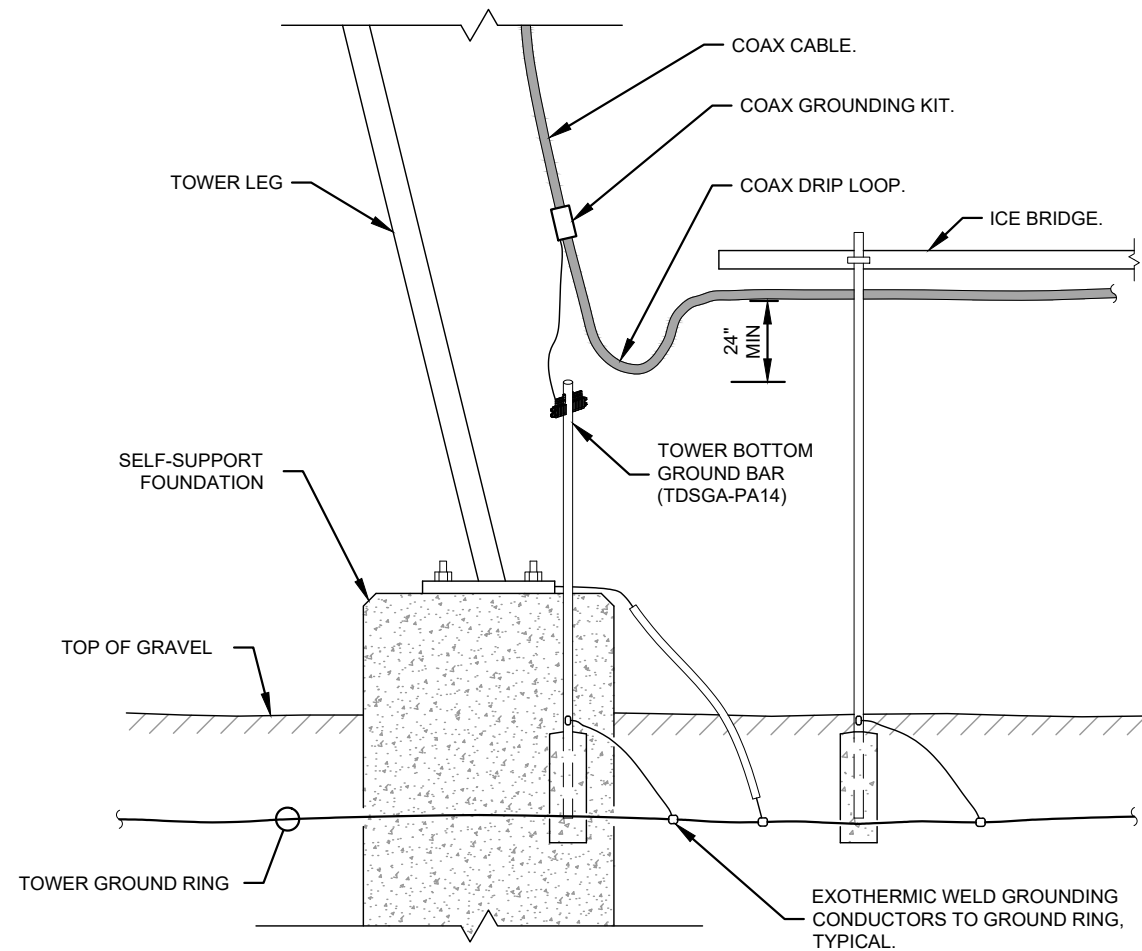
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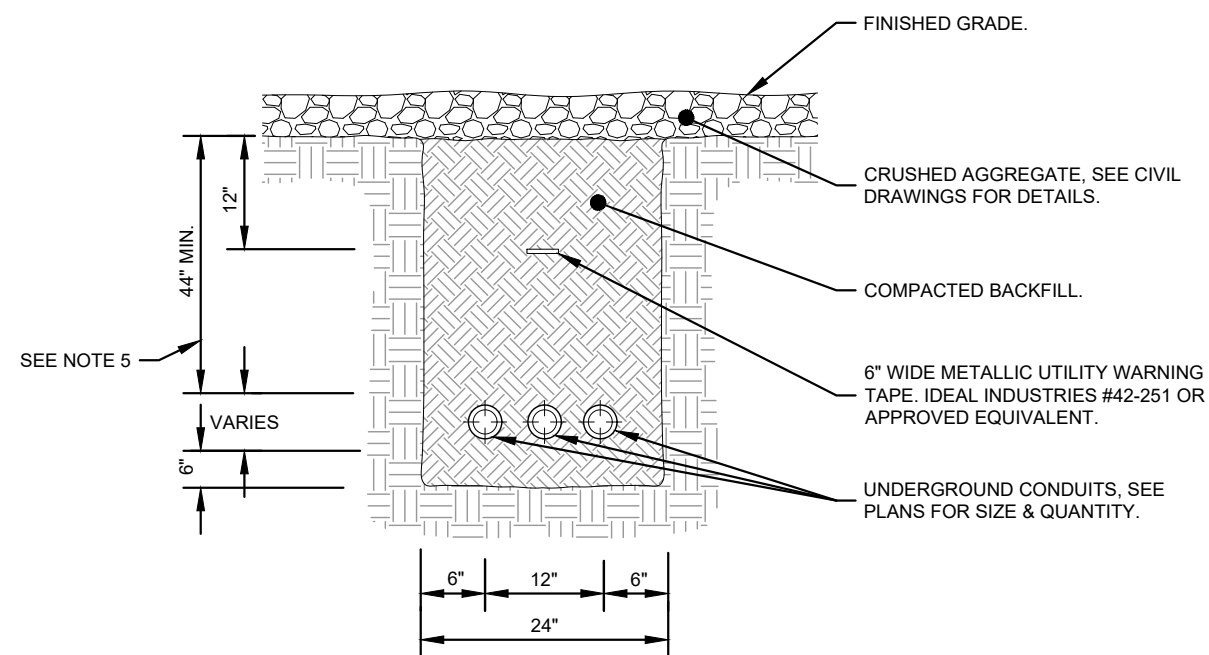
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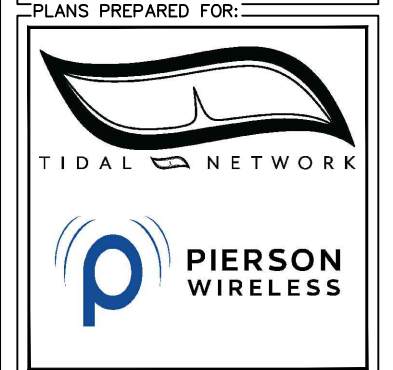
1 DRIP LOOP DETAIL
E6 NOT TO SCALE



- NOTES:
1. IF GROUND SURFACE IS OTHER THAN NEWLY GRAVELED AREA. CONTRACTOR IS TO RESTORE TO ORIGINAL CONDITION.
 2. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
 3. PROVIDE SCHEDULE 40 OR SCHEDULE 80 PVC CONDUIT & ELBOWS AT STUB UP LOCATIONS (I.E. POLES, EQUIPMENT, ETC.)
 4. PROVIDE SCHEDULE 80 PVC CONDUIT BELOW PARKING LOTS AND ROADWAYS.
 5. PERMAFROST DEPTH ASSUMED TO BE 32". CONTRACTOR TO VERIFY LOCAL PERMAFROST DEPTH AND BURY CONDUITS A MINIMUM OF 12" BELOW PERMAFROST DEPTH.

2 TYPICAL TRENCH DETAIL
E6 NOT TO SCALE

PROJECT INFORMATION:
SITE NAME:
PETERSBURG ZONE 01
SITE No.: PSG-Z01
1200 HAUGEN DRIVE
PETERSBURG, AK 99833
PETERSBURG COUNTY



PLANS PREPARED BY:

Kimley»Horn
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GA 30009
PHONE: 770-619-4280
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LICENSER:

PRELIMINARY
NOT FOR CONSTRUCTION

KHA PROJECT NUMBER:
017619024
DRAWN BY: RBV CHECKED BY: TRN

SHEET TITLE:
**ELECTRICAL
DETAILS**

SHEET NUMBER:
E6

GROUNDING NOTES

1. THE GROUND RING SHALL CONSIST OF #2 AWG BARE SOLID TINNED COPPER (STC) CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 34" BELOW FINISHED GRADE (OR BELOW FROST LINE). LOCATE 24" MINIMUM AND 36" MAXIMUM FROM EQUIPMENT AREA AND FROM TOWER FOUNDATION. ALL CONNECTIONS SHALL BE MADE USING A PARALLEL TYPE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
1. INSTALL GROUND RODS AS SHOWN AND AS REQUIRED. GROUND RODS TO BE COPPER CLAD STEEL, 5/8" DIAMETER AND 10FT IN LENGTH. SPACING BETWEEN GROUND RODS SHALL BE 10FT MINIMUM AND 15FT MAXIMUM. TOP OF GROUND ROD TO BE 30" MINIMUM BELOW GRADE (OR BELOW FROST LINE). BOND TOP OF GROUND ROD TO GROUND WIRE WITH EXOTHERMIC WELD. DO NOT EXOTHERMICALLY WELD ANYTHING TO GROUND ROD EXCEPT GROUND WIRE WHICH PASSES OVER TOP OF GROUND ROD (CLAMPED CONNECTIONS TO GROUND ROD PER TOWER MANUFACTURERS DETAILS ARE ACCEPTABLE).
2. EQUIPMENT PLATFORM GROUND RING SHALL HAVE A MINIMUM OF 4 GROUND RODS, INSTALLED AT THE CORNERS OF THE GROUND RING PLUS ADDITIONAL RODS AS REQUIRED TO COMPLY WITH THE SPACING REQUIREMENTS. TOWER GROUND RING SHALL HAVE A MINIMUM OF 3 GROUND RODS, EXCEPT USE 4 RODS AT A MONOPOLE TOWER. WHERE SPREAD TOWER FOOTING WOULD PREVENT GROUND RODS FROM BEING DRIVEN INTO SOIL ADJACENT TO TOWER, PROVIDE VERTICAL 1" DIAMETER PVC SLEEVES EMBEDDED IN FOOTING TO ALLOW INSTALLATION OF GROUND RODS.
3. EQUIPMENT GROUND RING AND TOWER GROUND RING SHALL BE BONDED TOGETHER WITH TWO #2 STC GROUND LEADS, TYPICALLY ONE ON EACH SIDE OF ICE BRIDGE.
4. BOND TOWER TO TOWER GROUND RING AT THREE LOCATIONS WITH #2 STC GROUND LEAD. SELF SUPPORT TOWERS SHALL HAVE EACH LEG BONDED TO GROUND RING, MONOPOLES AND GUYED TOWERS SHALL HAVE GROUND LEADS EQUALLY SPACED AROUND TOWER. EXOTHERMICALLY WELD GROUND LEADS TO TOP OF BASE PLATES, OR ATTACH TO TOWER USING TOWER MANUFACTURER PROVIDED DETAIL.
5. PROVIDE #2 STC RADIALS FROM THE TOWER GROUND RING TO EACH FENCE CORNER POST. RADIALS SHALL HAVE GROUND RODS AS PER THE REQUIRED SPACING. THE GROUND ROD AT THE END OF EACH RADIAL SHALL BE 24" MAXIMUM FROM FENCE CORNER POST. EQUIPMENT AREA GROUND RING AND CONNECTING GROUND LEADS (BETWEEN EQUIPMENT AREA AND TOWER GROUND RINGS) MAY BE USED AS PART OF THE RADIAL GOING TO THE FENCE CORNER POSTS TO WHICH THE EQUIPMENT AREA IS CLOSER THAN THE TOWER.
6. MINIMUM BEND RADIUS FOR #2 AWG GROUND WIRE IS 12", EXCEPT USE 24" FOR TOWER GROUND RINGS AND EQUIPMENT PAD GROUND RINGS.
7. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE LUGS FOR CONNECTION TO FLAT METAL SURFACES. USE ONLY STAINLESS STEEL HARDWARE ON ALL MECHANICAL CONNECTIONS. CLEAN ALL SURFACES (AND STRIP PAINTED SURFACES) TO BARE BRIGHT METAL PRIOR TO MAKING GROUND CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO ALL CONNECTIONS. APPLY ZINC RICH PAINT (COLD GALV.) TO ALL EXOTHERMIC WELDS, AND TO ANY METAL EXPOSED BY CLEANING, STRIPPING, GRINDING, CUTTING OR DRILLING.
8. ALL #2 STC GROUNDING CONDUCTORS ABOVE GRADE SHALL BE RUN IN 3/4" FLEXIBLE PVC CONDUIT. CONDUIT SHALL BEGIN WITHIN 3/4" OF ABOVE GROUND CONNECTION POINT, SHALL EXTEND 24" BELOW GRADE MINIMUM WHERE RUNNING INTO THE GROUND, AND SHALL BE FILLED WITH SEALANT AT ANY ABOVE GROUND CONNECTION POINT. SECURE CONDUIT EVERY 24" ON VERTICAL RUNS AND EVERY 36" ELSEWHERE. THE PORTION OF THE SECURING FASTENER WHICH ENCIRCLES THE GROUNDING CONDUCTOR SHALL BE NON-METALLIC.
9. BOND EACH PLATFORM SUPPORT COLUMN AND EACH STAIR STRINGER / LADDER RAIL TO GROUND RING WITH #2 STC GROUND LEAD. EXOTHERMICALLY WELD #2 STC TO TOP OF COLUMN BASE PLATE OR SIDE OF STRINGER / LADDER RAIL. RUN PVC CONDUIT AND GROUND WIRE ALONG TOP OF FOOTING OR PIER USING SHORTEST PATH TO EDGE OF CONCRETE, AND THEN DOWN TO GROUND RING.
- 11A. AT GUYED AND SELF SUPPORT TOWERS MOUNT TDSGA-PA14 TOWER BOTTOM GROUND BAR ON DEDICATED POST DIRECTLY BELOW COAX CABLES COMING OFF TOWER. POST TO BE 3.5" OD GALVANIZED SCHEDULE 40 PIPE WITH GALVANIZED PIPE CAP. TOP OF POST TO BE 78" ABOVE GRADE. EMBED POST 30" MINIMUM IN 12" DIAMETER BY 36" DEEP MINIMUM CONCRETE FOOTING WITH TOP OF FOOTING 6" BELOW GRADE. IF TOWER FOUNDATION OBSTRUCTS AUGERED FOOTING, USE POST WITH 10" SQUARE GALVANIZED STEEL FLANGE PLATE WELDED TO BOTTOM AND BOLT FLANGE TO TOP OF CONCRETE TOWER FOOTING.
- 11B. AT MONOPOLE TOWERS CLAMP TDSGA-BC14 TOWER BOTTOM GROUND BAR DIRECTLY TO TOWER. IF RUNNING COAX INSIDE MONOPOLE, CLAMP ONTO BOTTOM LIP OF EXIT PORT. IF BANDING COAX TO OUTSIDE OF TOWER, CLAMP ONTO STEEL ANGLE WHICH IS Banded TO TOWER. BOND TDSGA-BC14 TO TOWER GROUND RING WITH TWO #2 STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING.
12. AT EQUIPMENT PLATFORM, MOUNT TDSGA-BC14 MAIN EXTERIOR GROUND BAR TO BOTTOM FLANGE OF PLATFORM PERIMETER BEAM BELOW CABLE LADDER FOR COAX/HYBRID CABLES COMING DOWN FROM ICE BRIDGE. ISOLATE GROUND BAR FROM PLATFORM STEEL. BOND TDSGA-BC14 TO EQUIPMENT PLATFORM GROUND RING WITH TWO #2 STC LEADS LUGGED TO GROUND BAR AND EXOTHERMICALLY WELDED TO GROUND RING. RUN PVC CONDUIT AND GROUND WIRE ALONG BOTTOM OF STEEL BEAM, DOWN STEEL COLUMN AND CONCRETE PIER INTO GRAVEL AREA AND THEN DOWN TO GROUND RING.
13. ALL ICE BRIDGE SECTIONS ARE TO BE JUMPERED TOGETHER WITH #2 WIRE, EITHER BARE TINNED COPPER OR GREEN INSULATED STRANDED. ICE BRIDGE SHALL BE GROUNDED AT EACH END WITH #2 STC WIRE LUGGED TO ICE BRIDGE AND EXOTHERMICALLY WELDED TO UPPER PORTION OF NEAREST ICE BRIDGE POST.
14. BOND EACH ICE BRIDGE POST, H-FRAME POST OR DEDICATED GROUNDING POST TO BURIED GROUNDING SYSTEM WITH #2 STC LEAD EXOTHERMICALLY WELDED TO POST BELOW TOP OF GRAVEL AND EXOTHERMICALLY WELDED TO GROUND RING. EACH POST TO HAVE SEPARATE GROUND LEAD DIRECTLY TO GROUND RING - DO NOT DAISY CHAIN POSTS TOGETHER.
15. BOND EACH RF CABINET TO TDSGA-BC14 MAIN EXTERIOR GROUND BAR WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND TO GROUND BAR. LUG TO CABINET BODY USING LOCATION AT WHICH STUDS ON CABINET CHASSIS HAVE DIRECT GROUND WIRE CONNECTION TO CABINET INTERNAL GROUND BAR. RUN CONDUIT AND CONDUCTOR ACROSS BACK OF CABINET (DO NOT RUN TOWARDS NEAREST CORNER OF CABINET AND THEN BEND GROUND WIRE SHARPLY), DOWN THROUGH PLATFORM GRATING, THEN OVER TO MAIN EXTERIOR GROUND BAR.
16. BOND EACH BATTERY CABINET (WHERE USED) TO TDSGA-BC14 MAIN EXTERIOR GROUND BAR WITH #2 AWG TINNED SOLID BARE COPPER CONDUCTOR LUGGED TO CABINET BODY AND TO GROUND BAR. CONNECT TWO HOLE LUG TO BACK OF CABINET AT FACTORY PROVIDED GROUNDING STUDS. RUN CONDUIT AND CONDUCTOR DOWN THROUGH PLATFORM GRATING, THEN OVER TO MAIN EXTERIOR GROUND BAR.
17. BOND H-FRAME MOUNTED SERVICE DISCONNECT (OR METER BASE) AND INTEGRATED LOAD CENTER TO DEDICATED GROUND ROD(S) OR TO GROUND RING AS PER NEC, MUNICIPAL AND UTILITY COMPANY REQUIREMENTS. RUN PVC CONDUIT AND GROUND WIRE ALONG BOTTOM OF PLATFORM, DOWN NEAREST PLATFORM PIER, AND THEN DOWN TO GROUND RING.
18. BOND GENERATOR TO TDSGA-BC14 MAIN EXTERIOR GROUND BAR WITH #2 STC LUGGED TO GENERATOR BODY AND TO GROUND BAR. BOND #2 STC AT TWO DIAGONALLY OPPOSITE LOCATIONS ON GENERATOR BY DRILLING AND BOLTING TWO HOLE LUG TO FINS ON GENERATOR BASE STRUCTURE. RUN CONDUIT AND CONDUCTOR DOWN THROUGH PLATFORM GRATING, THEN OVER TO MAIN EXTERIOR GROUND BAR.
19. WHERE PROPANE TANK IS INSTALLED TO FUEL GENERATOR, BOND PROPANE TANK TO GROUND RING WITH A SINGLE #2 STC CLAMPED TO FILLER PIPE OF PROPANE TANK AND EXOTHERMICALLY WELDED TO GROUND RING. GROUND LEAD SHOULD RUN TO TANK SUPPORT AND TAKE SHORTEST PATH ACROSS CONCRETE PAD OR PLATFORM TO GRAVEL AREA, THEN CONTINUE TO GROUND RING. IF PROPANE TANK FUEL LINE IS METALLIC AND CROSSES EQUIPMENT GROUND RING, BOND FUEL LINE TO EQUIPMENT GROUND RING WHERE THE TWO LINES CROSS WITH A SINGLE #2 STC CLAMPED TO FUEL LINE AND EXOTHERMICALLY WELDED TO GROUND RING.
20. BOND GPS ANTENNA AND GPS ANTENNA MOUNT TO TDSGA-BC14 MAIN EXTERIOR GROUND BAR WITH #2 GREEN INSULATED STRANDED GROUND WIRE.
21. PROVIDE TWO GROUND RODS OUTSIDE GATES OF COMPOUND. DISTANCE BETWEEN GROUND RODS SHALL MATCH WIDTH OF GATE OPENING, AND DISTANCE FROM FENCE SHALL MATCH LENGTH OF LONGEST INDIVIDUAL GATE LEAF. BOND GATE POSTS TOGETHER WITH #2 STC LEAD WHICH RUNS PAST AND CONNECTS TO GROUND RODS OUTSIDE GATES.
22. BOND EACH GATE POST WITH #2 STC TO NEAREST PORTION OF GROUNDING SYSTEM INSIDE COMPOUND.
23. BOND EACH GATE TO GATE POST WITH FLEXIBLE INSULATED OR BRAIDED #4/0 COPPER STRAP. EXOTHERMICALLY WELD STRAP TO BOTH GATE AND GATE POST.
24. ANY METAL FENCE POST WITHIN 6FT OF A GROUNDED METAL OBJECT SHALL BE BONDED TO THE NEAREST GROUND RING. ANY METAL FENCE WITHIN 6FT OF A GROUND RING SHALL HAVE THE LINE POSTS BONDED TO THE GROUND RING AT 20FT MAXIMUM INTERVALS AS MEASURED ALONG THE LENGTH OF THE FENCE.
25. WHERE GROUND BASED RRU'S, RAYCAP OVP'S OR DIPLEXERS ARE INSTALLED AT THE EQUIPMENT AREA, BOND EACH COMPONENT TO NEAREST TDSGA GROUND BAR BELOW THE COMPONENT WITH #2 GREEN INSULATED STRANDED GROUND WIRE. SINGLE HOLE LUG OR RING TYPE CONNECTOR IS SUITABLE FOR CONNECTION TO GROUNDING STUD ON EACH COMPONENT.
26. NOTIFY VZW CM TO INSPECT GROUND RING BEFORE BACKFILLING. CONTRACTOR SHALL HIRE A 3RD PARTY TO PERFORM AN IEEE81 FALL OF POTENTIAL METHOD GROUND TEST. MAXIMUM ALLOWABLE RESISTANCE TO GROUND IS 5 OHMS. PROVIDE ADDITIONAL GROUND SYSTEM COMPONENTS AS REQUIRED TO ACHIEVE THIS VALUE.
27. REFER TO TOWER GROUNDING DIAGRAM AND NOTES FOR GROUND SYSTEM REQUIREMENTS ON THE TOWER.
28. GROUNDING OF ALL ELECTRICAL EQUIPMENT SHALL BE AS PER NEC, MUNICIPAL AND UTILITY COMPANY REQUIREMENTS.

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SITE No.: PSG-Z01

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PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
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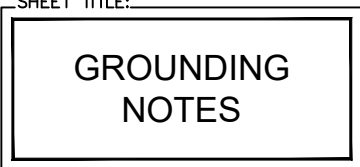
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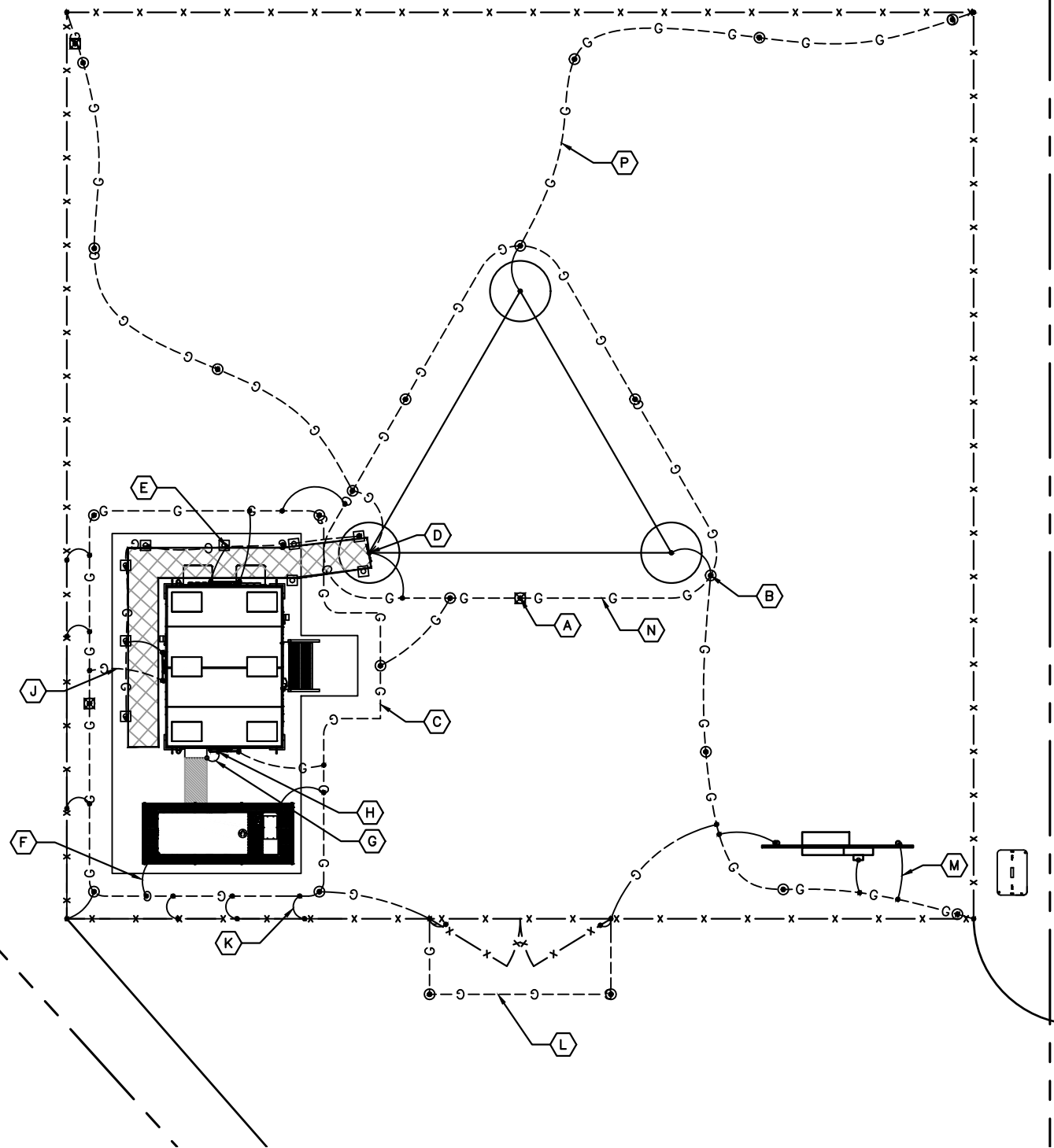


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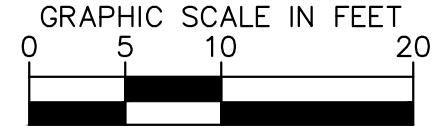
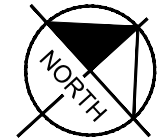
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E8
GROUNDING PLAN

KEY NOTES - GROUNDING EQUIPMENT

- (A) GROUND ROD TEST WELL (SEE DETAIL 1/E9).
- (B) GROUND ROD, TYPICAL (SEE DETAIL 2/E9).
- (C) TOWER AND EQUIPMENT GROUND RING
- (D) TDSGA-PA14 OR TDSGA-BC14 WHERE APPLICABLE
- (E) ICE BRIDGE POST BOND TO GROUND RING, TYPICAL
- (F) GENERATOR GROUNDING.
- (G) ATS GROUNDING.
- (H) SHELTER PROVIDED GROUND BAR TYPICAL.
- (J) SHELTER GROUNDING.
- (K) FENCE POST GROUNDING, TYPICAL.
- (L) GATE GROUNDING, TYPICAL.
- (M) UTILITY H-FRAME GROUNDING, TYPICAL.
- (N) TOWER GROUNDING, TYPICAL.
- (P) GROUND RADIALS, TYPICAL.
- (Q) REFER TO SHEETS E7, E8, E9, E10 & E11 FOR GROUNDING NOTES, DETAILS, AND SPECIFICATIONS.

LEGEND:

- GROUND RING
- ⊕ — GROUND ROD EXOTHERMICALLY WELDED TO GROUND RING
- EXOTHERMIC WELD
- ⊕ GROUND ROD TEST WELL (SEE DETAIL 1/E10)
- MECHANICAL CONNECTION



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PLANS PREPARED FOR:

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11720 AMBER PARK DRIVE, SUITE 600
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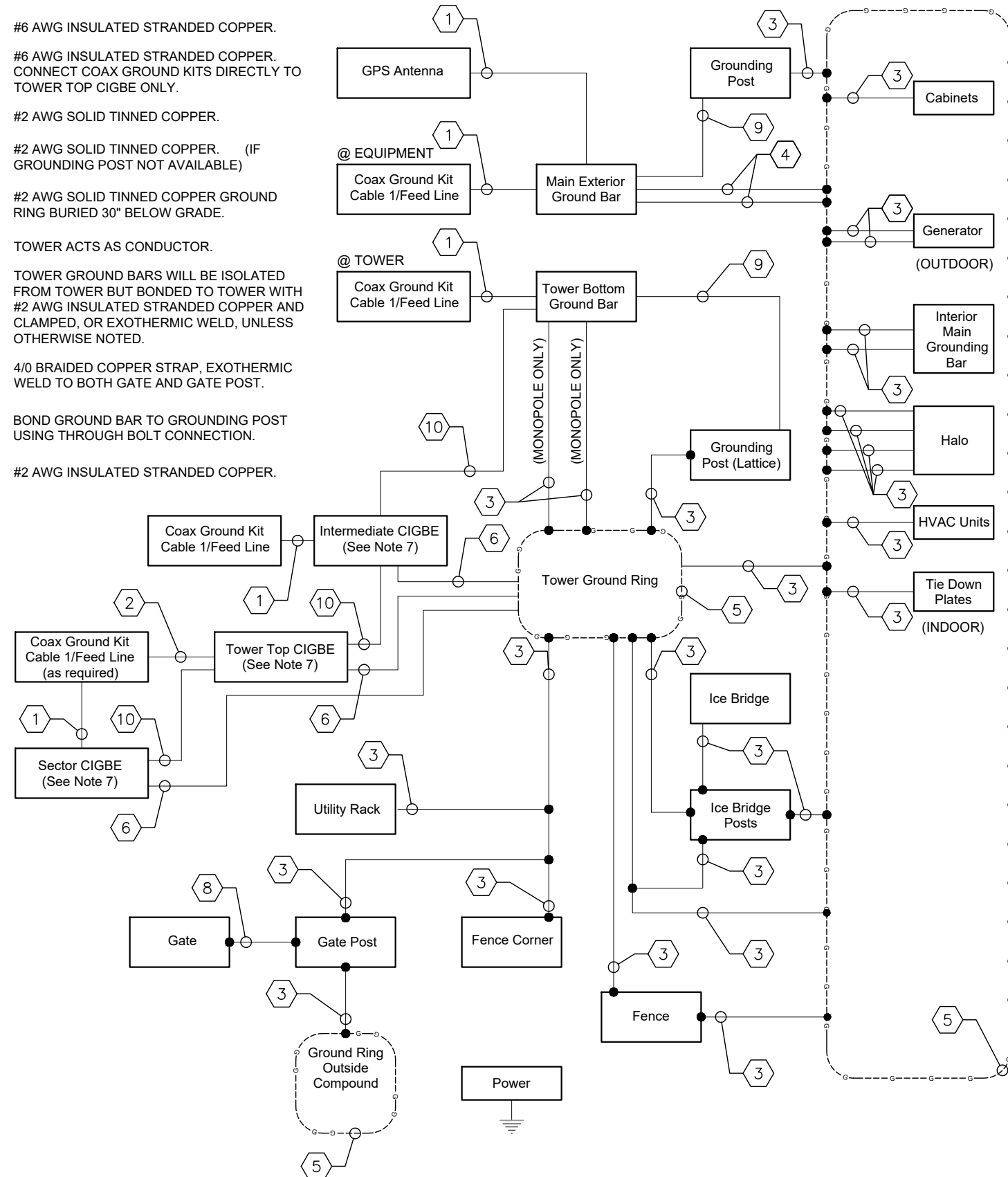
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 017619024
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SHEET TITLE:
GROUNDING PLAN

SHEET NUMBER:
E8

KEY NOTES - ELECTRICAL EQUIPMENT

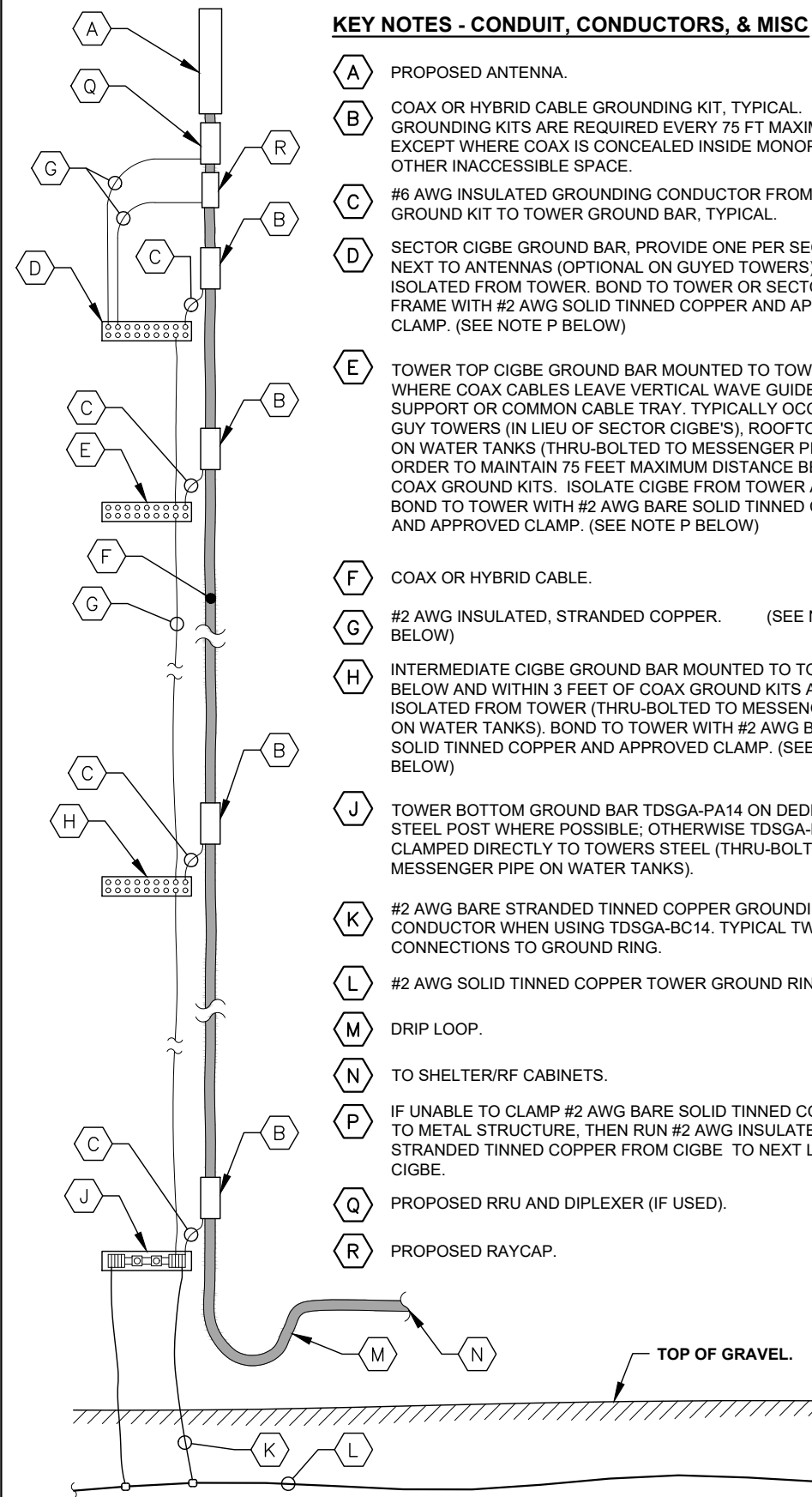
- 1 #6 AWG INSULATED STRANDED COPPER.
- 2 #6 AWG INSULATED STRANDED COPPER. CONNECT COAX GROUND KITS DIRECTLY TO TOWER TOP CIGBE ONLY.
- 3 #2 AWG SOLID TINNED COPPER.
- 4 #2 AWG SOLID TINNED COPPER. (IF GROUNDING POST NOT AVAILABLE)
- 5 #2 AWG SOLID TINNED COPPER GROUND RING BURIED 30" BELOW GRADE.
- 6 TOWER ACTS AS CONDUCTOR.
- 7 TOWER GROUND BARS WILL BE ISOLATED FROM TOWER BUT BONDED TO TOWER WITH #2 AWG INSULATED STRANDED COPPER AND CLAMPED, OR EXOTHERMIC WELD, UNLESS OTHERWISE NOTED.
- 8 4/0 BRAIDED COPPER STRAP, EXOTHERMIC WELD TO BOTH GATE AND GATE POST.
- 9 BOND GROUND BAR TO GROUNDING POST USING THROUGH BOLT CONNECTION.
- 10 #2 AWG INSULATED STRANDED COPPER.



1 GROUNDING SINGLE LINE DIAGRAM
E9 NOT TO SCALE

KEY NOTES - CONDUIT, CONDUCTORS, & MISC

- A PROPOSED ANTENNA.
- B COAX OR HYBRID CABLE GROUNDING KIT, TYPICAL. GROUNDING KITS ARE REQUIRED EVERY 75 FT MAXIMUM EXCEPT WHERE COAX IS CONCEALED INSIDE MONOPOLE OR OTHER INACCESSIBLE SPACE.
- C #6 AWG INSULATED GROUNDING CONDUCTOR FROM COAX GROUND KIT TO TOWER GROUND BAR, TYPICAL.
- D SECTOR CIGBE GROUND BAR, PROVIDE ONE PER SECTOR NEXT TO ANTENNAS (OPTIONAL ON GUYED TOWERS) AND ISOLATED FROM TOWER. BOND TO TOWER OR SECTOR FRAME WITH #2 AWG SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- E TOWER TOP CIGBE GROUND BAR MOUNTED TO TOWER WHERE COAX CABLES LEAVE VERTICAL WAVE GUIDE SUPPORT OR COMMON CABLE TRAY. TYPICALLY OCCURS ON GUY TOWERS (IN LIEU OF SECTOR CIGBE'S), ROOFTOPS, OR ON WATER TANKS (THRU-BOLTED TO MESSENGER PIPE) IN ORDER TO MAINTAIN 75 FEET MAXIMUM DISTANCE BETWEEN COAX GROUND KITS. ISOLATE CIGBE FROM TOWER AND BOND TO TOWER WITH #2 AWG BARE SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- F COAX OR HYBRID CABLE.
- G #2 AWG INSULATED, STRANDED COPPER. (SEE NOTE P BELOW)
- H INTERMEDIATE CIGBE GROUND BAR MOUNTED TO TOWER BELOW AND WITHIN 3 FEET OF COAX GROUND KITS AND ISOLATED FROM TOWER (THRU-BOLTED TO MESSENGER PIPE ON WATER TANKS). BOND TO TOWER WITH #2 AWG BARE SOLID TINNED COPPER AND APPROVED CLAMP. (SEE NOTE P BELOW)
- J TOWER BOTTOM GROUND BAR TDSCA-PA14 ON DEDICATED STEEL POST WHERE POSSIBLE; OTHERWISE TDSCA-BC14 CLAMPED DIRECTLY TO TOWERS STEEL (THRU-BOLTED TO MESSENGER PIPE ON WATER TANKS).
- K #2 AWG BARE STRANDED TINNED COPPER GROUNDING CONDUCTOR WHEN USING TDSCA-BC14. TYPICAL TWO CONNECTIONS TO GROUND RING.
- L #2 AWG SOLID TINNED COPPER TOWER GROUND RING.
- M DRIP LOOP.
- N TO SHELTER/RF CABINETS.
- P IF UNABLE TO CLAMP #2 AWG BARE SOLID TINNED COPPER TO METAL STRUCTURE, THEN RUN #2 AWG INSULATED STRANDED TINNED COPPER FROM CIGBE TO NEXT LOWEST CIGBE.
- Q PROPOSED RRU AND DIPLEXER (IF USED).
- R PROPOSED RAYCAP.



2 COAX-TOWER GROUNDING SCHEMATIC
E9 NOT TO SCALE

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PLANS PREPARED BY:

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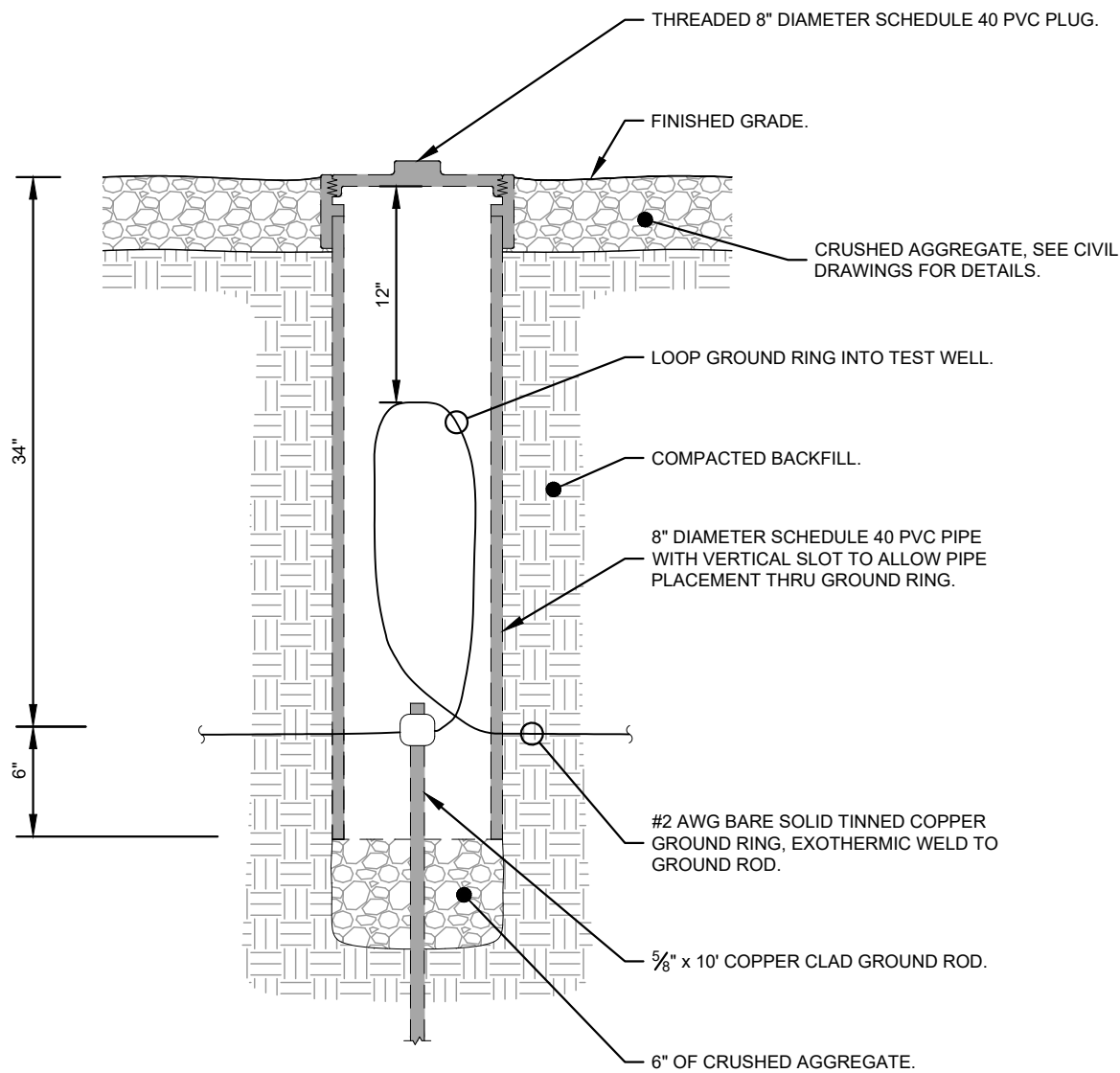
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GROUNDING SINGLE LINE DIAGRAM

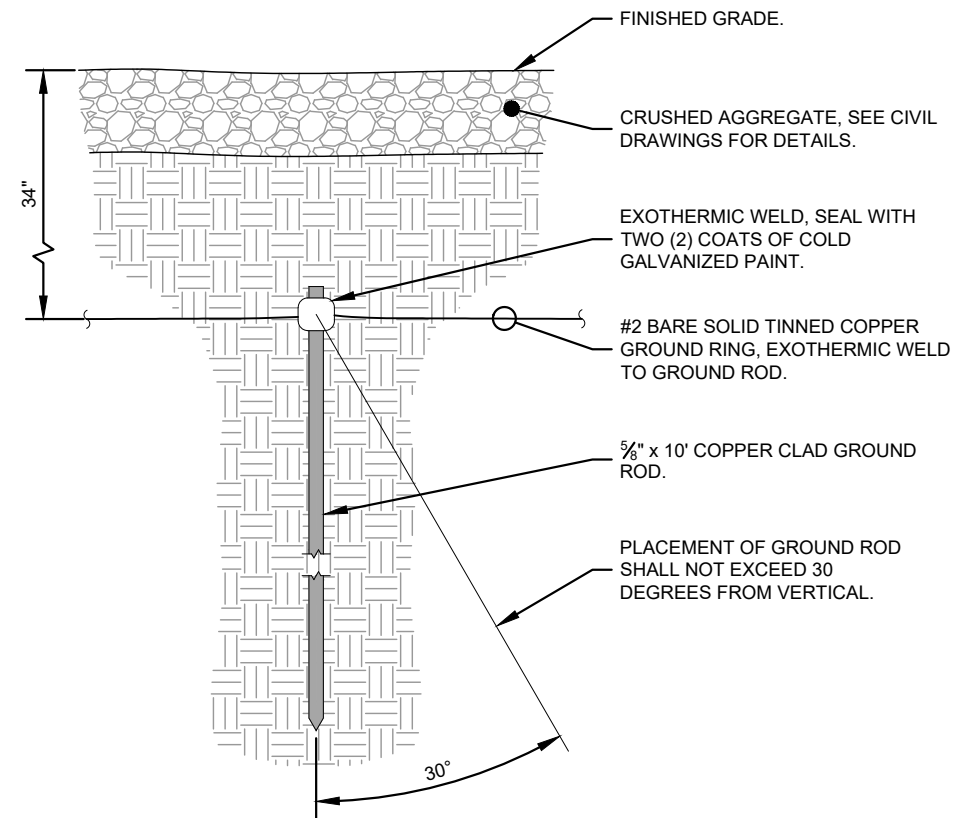
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1 GROUND ROD TEST WELL DETAIL
E10 NOT TO SCALE



2 GROUND ROD INSTALLATION DETAIL
E10 NOT TO SCALE

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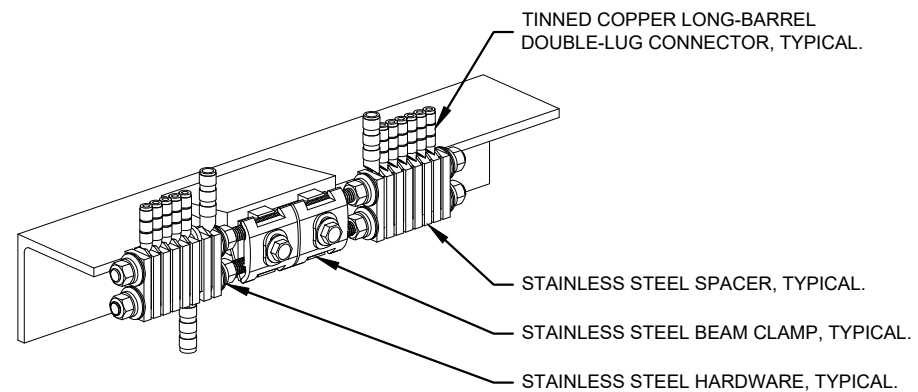
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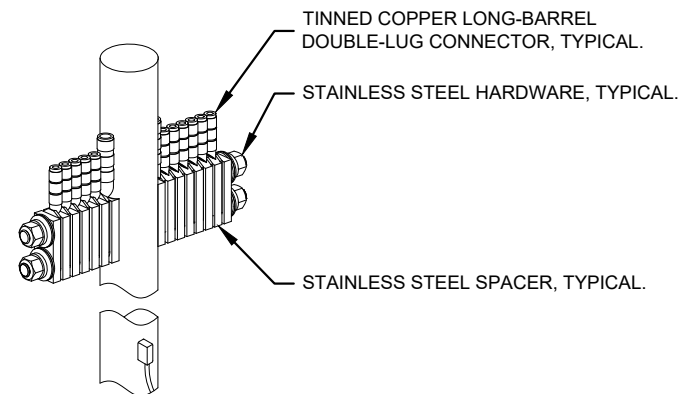
**GROUNDING
DETAILS**

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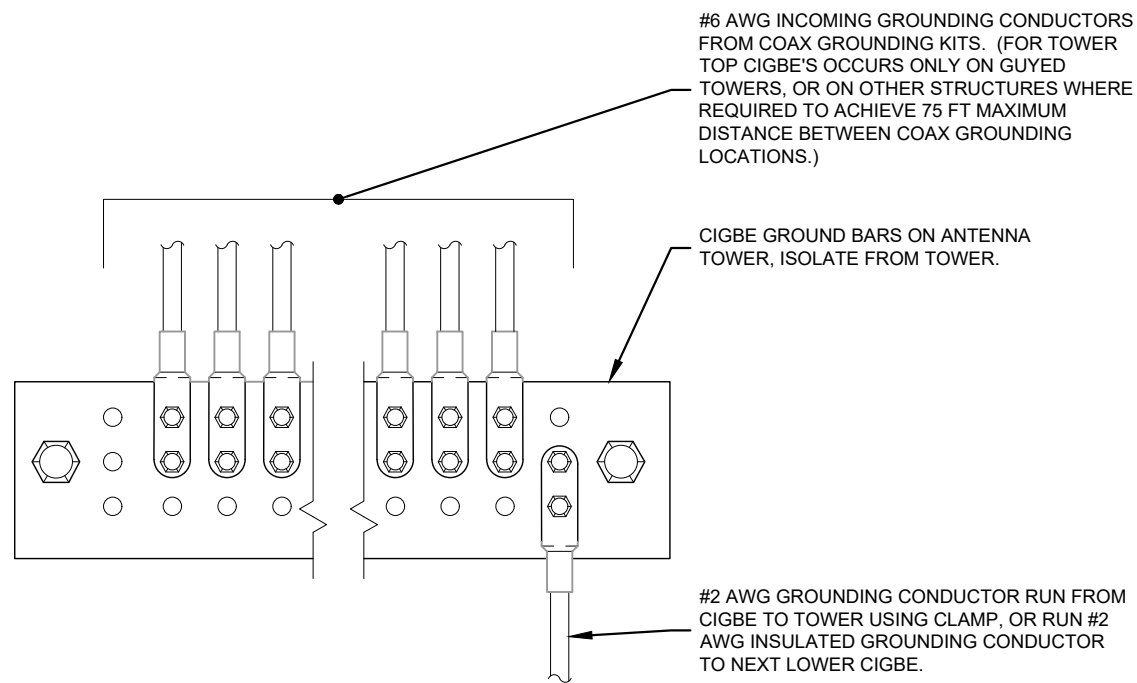
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1 BAR NONE GROUNDED BEAM CLAMP (TDSGA-BC14)
E11 NOT TO SCALE



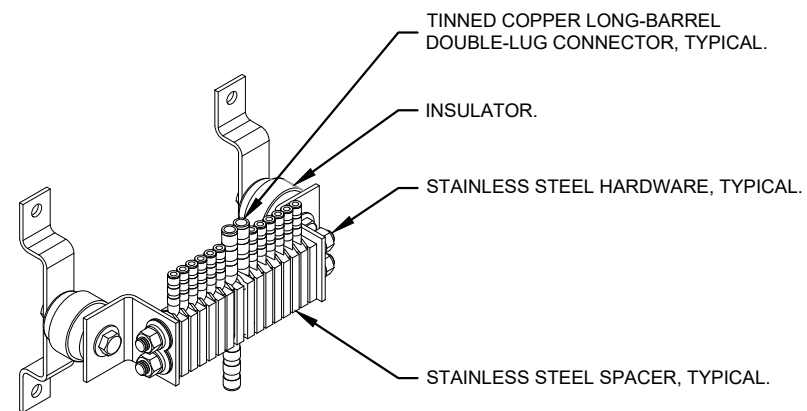
2 BAR NONE POST MOUNTED (TDSGA-PA14)
E11 NOT TO SCALE



3 ANTENNA GROUND WIRE INSTALLATION DETAIL
E11 NOT TO SCALE

NOTES:

1. ALL CIGBE GROUND BARS ON TOWER ARE TO BE ERICO TDSGA. TYPICALLY USE TDSGA-WB17 ISOLATED FROM UNISTRUT BRACKET.
2. IF CIGBE CANNOT BE CONNECTED TO TOWER WITH #2 AWG GROUNDING CONDUCTOR, VIA CLAMP OR EXOTHERMIC WELD, THEN RUN #2 AWG BLACK GROUND LEAD FROM CIGBE DOWN TO NEXT LOWER CIGBE. SECURE GROUND LEAD WITH NON-METALIC TIES AT SAME SPACING AS COAX SUPPORTS.



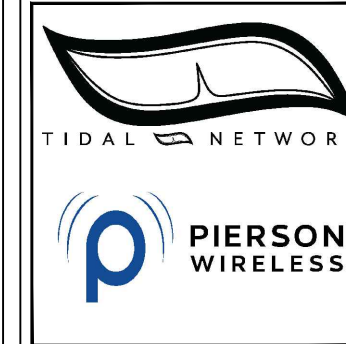
4 BAR NONE INSULATED (TDSGA-WB17)
E11 NOT TO SCALE

PROJECT INFORMATION:

SITE NAME:
 PETERSBURG ZONE 01
 SITE No.: PSG-Z01

1200 HAUGEN DRIVE
 PETERSBURG, AK 99833
 PETERSBURG COUNTY

PLANS PREPARED FOR:



PLANS PREPARED BY:



11720 AMBER PARK DRIVE, SUITE 600
 ALPHARETTA, GA 30009
 PHONE: 770-619-4280
 WWW.KIMLEY-HORN.COM

REV: DATE: ISSUED FOR: BY:

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A	12/16/25	PRELIMINARY	TRN

LICENSER:

PRELIMINARY
 NOT FOR CONSTRUCTION

KHA PROJECT NUMBER:

017619024

DRAWN BY: CHECKED BY:

RBV

TRN

SHEET TITLE:

**GROUNDING
 DETAILS**

SHEET NUMBER:

E11