



SITE NAME: BLANCHARD

PROJECT: FIBER HUT

ADDRESS: 32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

SITE MAP:



SITE PHOTO:



SHEET LIST:

T1	TITLE SHEET
SV1	PHASE 1 SURVEY SHEET
GN1	GENERAL NOTES
GN2	LEGEND & SYMBOL KEY
A1.0	OVERALL SITE PLAN
A2.1	DETAILED NEW SITE PLAN
A2.2	SITE SIGNAGE LAYOUT
D1.1	DETAILS
S0.0	STRUCTURAL NOTES
S1.1	STRUCTURAL DETAILS
S1.2	STRUCTURAL DETAILS
S1.3	STRUCTURAL DETAILS
S1.4	STRUCTURAL DETAILS
E0.0	ELECTRICAL & GROUNDING NOTES
E0.1	GENERATOR NOTES
E1.0	OVERALL UTILITY PLAN
E1.1	DETAILED UTILITY PLAN
E2.1	ELECTRICAL ONE-LINE DIAGRAM
E3.1	ELECTRICAL DETAILS
E3.2	ELECTRICAL DETAILS
E4.1	GROUNDING PLAN
E4.2	GROUNDING DETAILS
E4.3	GROUNDING DETAILS
E4.4	GROUNDING DETAILS
E5.1	GENERATOR DETAILS



ATTACHMENTS:

NEW CIVIL SURVEY
SHELTER MANUFACTURER DRAWINGS
GENERATOR SPECIFICATIONS

SCOPE OF WORK:

INSTALLATION OF A NEW PRE-FABRICATED AN EQUIPMENT SHELTER (FIBER HUT) AND 150 KW DIESEL GENERATOR WITHIN A NEW COMPOUND. SCOPE INCLUDES A NEW 600A, SINGLE-PHASE ELECTRICAL SERVICE.

PROJECT INFORMATION:

COUNTY:	BONNER
JURISDICTION:	BONNER COUNTY
PARCEL ID:	RP02109000010A
PROPERTY OWNER:	YOUNT PROPERTIES LLC
ZONING DISTRICT:	COMMERCIAL
OCCUPANCY TYPE:	U- (UNMANNED FACILITY)
CONSTRUCTION TYPE:	VB
GOVERNING CODES:	IBC 2018, IMC 2018, IFC 2018, NEC 2017.
UTILITIES:	AVISTA CORPORATION 208-929-0174
ONE-CALL IDAHO:	CONTRACTOR TO CALL BEFORE DIGGING!!! PHONE: 811 OR 866-242-5844

SITE NAME:

BLANCHARD

SITE ADDRESS:

32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:

FIBER HUT

SET ISSUE:

NO	DESC	DATE:
0	CDs	9/29/2025

TITLE SHEET

T 1

SCALE SET FOR 24"X36" SHEET
USE 1/2 SCALE FOR 11"X17" SHEET

PROJECT TEAM:

PROJECT MANAGER:

DAYTON SAVAGE
ONTIVITY
281.703.4464
DAYTON.SAVAGE@ONTIVITY.COM

CONSTRUCTION MANAGER:

RYLIN JENSON
ONTIVITY - LEGACY DIVISION
406.926.9376
RYLIN.JENSON@ONTIVITY.COM

ENGINEER:

DAYTON SAVAGE
ONTIVITY
281.703.4464
DAYTON.SAVAGE@ONTIVITY.COM

IIG CONTACT:

MITCH KALLEVIG
INTERMOUNTAIN IG
MITCH.KALLEVIG@INTERMOUNTAINIG.COM

IIG CONTACT:

JESSIE HUENERGARDT
INTERMOUNTAIN IG
JESSIE.HUENERGARDT@INTERMOUNTAINIG.COM

Old Republic National Title Insurance Company,
Alliance Title & Escrow, File No. 1012205
Effective Date of Commitment: July 18, 2025.

17. Easements, reservations, notes and/or dedications as shown on the official plat of Hoodoo View Acres.

This Exception refers to Hoodoo View Acres, a minor subdivision, which creates Lot 1, the Parent Parcel and identifies Battle Drive, a private road easement being 30 feet wide. Lot 1 was retraced and is shown hereon. Battle Drive was surveyed and is shown hereon. This Exception affects the Parent Parcel.

18. Negative easements, conditions, restrictions, and access rights contained in the deed to the State of Idaho. Recorded: June 21, 1941; Book: 64 of Deeds, Page: 221

This Exception refers to the right-of-way acquisition for State Highway 41. A portion of the highway right-of-way was retraced and shown hereon. This Exception affects the Parent Parcel.

19. Negative easements, conditions, restrictions, and access rights contained in the deed to the State of Idaho. Recorded: June 21, 1941; Book: 64 of Deeds, Page: 222

This Exception refers to the right-of-way acquisition for State Highway 41. A portion of the highway right-of-way was retraced and shown hereon. This Exception affects the Parent Parcel.

20. An easement for the purpose shown below and rights incidental thereto as set forth in document:

Granted To: The Washington Water Power company; Purpose: Public Utilities; Recorded: October 1, 1956
Book: 23 of Miscellaneous, Page: 212; The exact location and extent of said easement is not disclosed of record.

This Exception conveys a right-of-way easement for electrical lines with the right of inspect, maintain and remove brush. This Exception is blanket in nature. This Exception affects the Parent Parcel.

21. An easement for the purpose shown below and rights incidental thereto as set forth in a document:

Purpose: Road purposes for ingress and egress; Recorded: January 29, 1979; Instrument No.: 210333

This Exception cites easements for road purposes. This Exception is not located in the Parent Parcel.

22. An easement for the purpose shown below and rights incidental thereto as reserved in a document:

Purpose: Ingress, egress and utilities; Recorded: June 29, 1999; Instrument No.: 547424

This Exception refers to a private road easement being 30 feet wide, known as Battle Drive. Battle Drive was surveyed and is shown hereon. This Exception affects the Parent Parcel.

23. An easement for the purpose shown below and rights incidental thereto as disclosed in a document:

Purpose: Water line and access for maintenance and repair of a well; Recorded: June 29, 1999; Instrument No.: 547425

This Exception refers to an amended well and water line agreement and easement. This Exception does not contain sufficient information, without personal knowledge or testimony from the parties involved, to determine the water line location with certainty. This Exception is amended by Exception 24. This Exception affects the Parent Parcel.

24. Terms, provisions, covenants, conditions, definitions, options, obligations and restrictions, contained in a document; Purpose: Interest in well; Recorded: June 28, 1999; Instrument No.: 547425

The effect, if any, of a document: Recorded: August 7, 2003; Instrument No.: 630923

This Exception conveys interests in an amended well and water line agreement and easement via quit claim deed. This Exception affects the Parent Parcel.

25. An easement for the purpose shown below and rights incidental thereto as set forth in a document:

By and between: Yount Properties LLC; Purpose: Effluent line and septic system drain field; Recorded: September 30, 2022; Instrument No.: 1012236

This Exception grants an easement, 75 feet by 25 feet in the southwest corner of Lot 1 of Hoodoo View Subdivision. This Exception is shown hereon. This Exception affects the Parent Parcel.

26. A Deed of Trust to secure an indebtedness in the amount shown below. Amount: \$325,000.00

Trustor/Grantor: Yount Properties LLC, an Idaho Limited Liability Company; Trustee: First American Title Insurance Company; Beneficiary: Columbia State Bank; Dated: August 18, 2021; Recorded: August 23, 2021; Instrument No.: 990146; Re-recorded: November 4, 2021; Instrument No.: 995019; Re-recorded: November 5, 2021; Instrument No.: 995073; Note: Includes this and other property.

This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.

27. Assignment of Rents: Grantor: Yount Properties LLC, an Idaho Limited Liability Company; Lender: Columbia State Bank; Recorded: August 23, 2021; Instrument No.: 990147; Re-recorded: November 4, 2021; Instrument No.: 995018; Re-recorded: November 5, 2021; Instrument No.: 995074; Note: Includes this and other property.

This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.

28. A Deed of Trust to secure an indebtedness in the amount shown below; Amount: \$130,000.00; Trustor/Grantor: Yount Properties LLC, an Idaho Limited Liability Company; Trustee: First American Title Insurance Company; Beneficiary: Columbia State Bank; Dated: August 18, 2021; Recorded: August 23, 2021; Instrument No.: 990148; Re-recorded: November 4, 2021; Instrument No.: 995017; Re-recorded: November 5, 2021; Instrument No.: 995075; Note: Includes this and other property. A Reconveyance which purports to release the indebtedness secured under the Deed of Trust. Recorded: October 18, 2022; Instrument No.: 1013093; (The above referenced exception will be removed upon verification the lender has been paid in full.)

This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.

29. Assignment of Rents: Grantor: Yount Properties LLC, an Idaho Limited Liability Company; Lender: Columbia State Bank; Recorded: August 23, 2021; Instrument No.: 990149; Re-recorded: November 4, 2021; Instrument No.: 995020; Re-recorded: November 5, 2021; Instrument No.: 995076; Note: Includes this and other property. A Release which purports to release the indebtedness secured under the Assignment of Rents. Recorded: October 18, 2022; Instrument No.: 1013094; (The above referenced exception will be removed upon verification the lender has been paid in full.)

This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.

30. Possible encroachment of buildings over the Northerly and Easterly boundary lines as depicted on an aerial map. *This Exception speculates encroachments. Refer to survey data shown hereon for conclusive locations of structures and boundary lines. This Exception affects the Parent Parcel.*

31. Resolution#2022-94 and the terms and conditions contained therein; Between: Bonner County And: Yount Properties LLC; Purpose: Amendment to The Bonner County Comprehensive Plan Project Land Use Map; Recorded: November 9, 2022; Instrument No.: 1013993; *This Exception amends land use of the Parent Parcel. This Exception affects the Parent Parcel.*

32. Bonner County Ordinance No. 687; Purpose: Rezoning; Recorded: January 30, 2023; Instrument No.: 1016439; Ordinance No. 689 Amending Ordinance No. 687; Recorded: February 2, 2023; Instrument No.: 1016528; *This Exception amends zoning of the Parent Parcel. This Exception affects the Parent Parcel.*

33. A Deed of Trust, including the terms and provisions thereof, to secure the amount noted below and other amounts secured thereunder, if any: Amount: \$160,000.00; Trustor/Grantor: Yount Properties LLC, an Idaho limited liability company; Trustee: First American Title Insurance Company; Beneficiary: Umpqua Bank; Dated: June 16, 2023; Recorded: July 12, 2023; Instrument No.: 1022457; Note: Includes this and other property *This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.*

34. Assignment of Rents: Grantor: Yount Properties LLC, an Idaho limited liability company; Lender: Umpqua Bank; Recorded: July 12, 2023; Instrument No.: 1022458; Note: Includes this and other property *This Exception refers to a mortgage and is not survey related. This Exception is blanket in nature. This Exception affects the Parent Parcel.*

35. Conditional Use Permit and the terms and conditions contained therein Between: Bonner County Planning Department; And: Yount Properties; Recorded: May 10, 2024; Instrument No.: 1033205 *This Exception refers to the fiber relay facility at the southeast corner of Lot 1 of Hoodoo View Subdivision and is shown hereon. This Exception cites the conditions required to be met for allowance of the utility. This Exception affects the Parent Parcel.*

36. Lease and Easement Agreement and the terms and conditions contained therein Between: Yount Properties LLC; And: Intermountain Infrastructure Group, LLC, a Delaware limited liability company Recorded: February 5, 2025; Instrument No.: 1043355 *This Exception cites the lease and easements for the fiber relay facility at the southeast corner of Lot 1 of Hoodoo View Subdivision (document cites Lot 2) and is shown hereon. This Exception includes utility extensions. This Exception affects the Parent Parcel.*

37. Unrecorded leaseholds, if any, and the rights of vendors and holders of security interest in personal property of tenants to remove said personal property at the expiration of the term. *This Exception is a standard exception and not the type to be depicted hereon. This Exception affects the Parent Parcel.*

COMMISSIONED BY:



SITE IDENTIFICATION:

BLNCID02W00 - BLANCHARD ID
FIBER HUT
32622 Hwy. 41
BLANCHARD,
BONNER COUNTY, IDAHO

PREPARED BY:

Boers Land Surveying
and Mapping, Inc.
5291 West Cameron Bridge Road
Manhattan, Montana 59741
www.boerslandsurveying.com
(406) 600-3790

SURVEYOR'S CERTIFICATION:

I, Daniel J. Boers, Professional
Land Surveyor License No.
13395LS, hereby certify that I
performed this survey in
August of 2025.

Daniel J. Boers, PLS/RLS, CFedS
Boers Land Surveying and Mapping, Inc.

PROJECT LOCATION:

LOT 1 OF HOODOO VIEW ACRES
NE1/4SE1/4 OF SECTION 24
TOWNSHIP 55 NORTH
RANGE 6 WEST, B.M.,
BONNER COUNTY, IDAHO.

SHEET TITLE:

TITLE INFORMATION

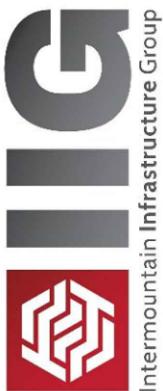
DATE: 8/11/2025 PAGE: 2 of 2



GEODETIC NORTH AT CONTROL POINT 100:
LATITUDE: N 42° 32' 27.89" (NAD83/2011)
LONGITUDE: W 113° 45' 01.48" (NAD83/2011)
GROUND ELEVATION: 4154 (AMSL)



09/29/2025



533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

NO	DESC	DATE:
0	CDs	9/29/2025

GENERAL NOTES

GN 1

1. GENERAL

- 1.1. CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL DESIGN DOCUMENTS FIELD VERIFYING ALL EXISTING CONDITIONS AND ASSESSING ALL MODIFICATIONS REQUIRED TO COMPLETE THE INSTALLATION. CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AND ARCHITECT / ENGINEER WITH ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND DESIGN DOCUMENTS AND OBTAIN WRITTEN CLARIFICATION PRIOR TO PROVIDING A QUOTE.
- 1.2. WHILE REVIEWING THE DESIGN DOCUMENTS, THE CONTRACTOR SHALL IDENTIFY ANY ITEMS WHERE THE DESIGN INTENT IS UNCLEAR AND OBTAIN WRITTEN CLARIFICATIONS PRIOR TO FURNISHING A BID.
- 1.3. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CARRIER PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK.
- 1.4. THESE DESIGN DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO SHOW FINAL CONDITIONS. MULTIPLE PHASING STEPS MAYBE NEEDED TO MAINTAIN SITE OPERATION DURING CONSTRUCTION AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN AND COORDINATE PHASING WITH CARRIER OPERATIONS.
- 1.5. CONTRACTOR SHALL, UNLESS OTHERWISE NOTED, INCLUDE IN THEIR SCOPE OF WORK ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT TO COMPLETE THE INSTALLATION AS DESCRIBED IN DESIGN DOCUMENTS.
- 1.6. CONTRACTOR SHALL SUPERVISE AND DIRECT THE EXECUTION OF THE SHOWN PROJECT AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING AND OBTAINING MATERIALS TO COMPLETE THE PROJECT. ANY REQUEST FOR ALTERATIONS TO THE DESIGN INTENT SHALL BE PROVIDED IN WRITING FOR REVIEW AND APPROVAL.
- 1.7. NO STRUCTURAL ALTERATIONS ARE TO BE MADE TO THE FACILITY UNLESS SPECIFICALLY NOTED.
- 1.8. CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT EXISTING SITE FINISHES AS MUCH AS POSSIBLE. ANY IMPACT TO SITE AND SURROUNDINGS SHALL BE MITIGATED AND CONTRACTOR SHALL RETURN SITE TO PRE-CONSTRUCTION CONDITIONS.
- 1.9. ALL DEMOLISHED AND UNUSED MATERIALS SHALL BE REMOVED FROM SITE AND TRACKED ASSETS LOGGED AND RETURNED TO CARRIER FOR DISPOSAL OR RE-USE. CONTRACTOR TO KEEP THE SITE CLEAN, FREE OF HAZARDS AND TO PROPERLY DISPOSE OF ALL RUBBISH.
- 1.10. PLANS ARE NOT TO BE SCALED. UTILIZE DIMENSION CALL-OUTS FOR ESTIMATES. ALL CABLE LENGTHS ARE SHOWN FOR INFORMATIONAL PURPOSES AND IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL LENGTHS PRIOR TO ORDERING.
- 1.11. CONTRACTOR TO OBTAIN X-RAY OR GPR (IF APPLICABLE) OF ANY MASONRY STRUCTURES IDENTIFYING ALL EMBEDMENT PRIOR TO CUTTING, DRILLING OR OTHER ACTIVITY WHICH COULD CAUSE DAMAGE. AVOID ALL EMBEDMENT. OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO IMPACTING ANY STRUCTURAL FACILITIES.
- 1.12. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT DESIGN DOCUMENTS AND ENSURING THEY ARE DISTRIBUTED AND ARE FOLLOWED BY ALL PERSONAL INVOLVED IN THE PROJECT.
- 1.13. EVERY EFFORT HAS BEEN MADE BY THE ARCHITECT / ENGINEERS TO PROVIDE ACCURATE AND COMPLETE DESIGN DOCUMENTS THOUGH MINOR ERRORS AND OMISSIONS MAYBE CONTAINED WITHIN THE DOCUMENTS. THESE SHALL NOT EXCUSE THE CONTRACTOR FROM PROVIDING AN ACCURATE PROPOSAL AND COMPLETING THE PROJECT IN ACCORDANCE WITH THE INTENT OF THE DESIGN DOCUMENTS.
- 1.14. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF IDENTIFYING ANY ISSUES AND NOTIFYING THE CONSTRUCTION MANAGER AND ARCHITECT / ENGINEER IN WRITING PRIOR TO SUBMITTING PRICING. IN THE EVENT OF DISCREPANCIES OR CONFLICTING ITEMS, THE CONTRACTOR SHALL PRICE THE MOST COSTLY OR EXPANSIVE OPTION UNLESS DIRECTED IN WRITING OTHERWISE.
- 1.15. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ACCESS WITH VENUE MANAGEMENT FOR ALL NECESSARY WORK AND TO COMPLY WITH ANY REQUIREMENTS IMPOSED BY THE VENUE
- 1.16. CONTRACTOR TO PROVIDE CLOSE OUT PACKAGE WITH ALL TEST RESULTS, SETTING SCREEN SHOTS, RELEVANT CATALOGS / CUT SHEETS, INSTRUCTION SHEETS AND A SET OF RED-LINED AS-BUILT DRAWINGS PRIOR TO FINAL BILLING.

2. CODE COMPLIANCE

- 2.1. ALL WORK TO MEET OR EXCEED ALL APPLICABLE STANDARDS, CODES, ORDNANCES, RULES AND REGULATIONS. WHEN TWO OR MORE ARE IN CONFLICT, THE MOST STRINGENT SHALL BE FOLLOWED. WHERE LICENSING IS REQUIRED, CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES PRIOR TO START OF WORK.
- 2.2. CONTRACTOR TO COORDINATE WITH LOCAL JURISDICTION FOR ANY CODE RELATED QUESTIONS. ALL JURISDICTION REQUIRED CHANGES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2.3. EQUIPMENT ROOMS ARE NOT MANNED, ARE NOT HABITABLE, AND TO NOT REQUIRE POTABLE WATER, SEWER CONNECTION OR A.D.A. ACCESS ACCOMMODATIONS.
- 2.4. CONTRACTOR TO REMOVE TRASH AND REFUSE ON A DAILY BASIS AND NO SOLID WASTE RECEPTACLE WILL BE SITED.

3. SITE WORK:

- 3.3. ALL EFFORT HAS BEEN MADE TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL UTILITIES SHOWN OR NOT AND PROTECT FROM DAMAGE. EXCAVATION CONTRACTOR TO OBTAIN REQUIRED LOCATED PRIOR TO STARTING WORK.
- 3.4. CONTRACTOR TO VERIFY STATE REQUIREMENTS FOR UTILITY LOCATION SERVICES AND EXCAVATION CONTRACTOR SHALL NOTIFY STATE OR LOCAL NOTIFICATION CENTER AS REQUIRED PRIOR TO ANY SITE DISTURBANCES.
- 3.5. CONTRACTOR SHALL PROTECT ALL SITE FINISHES AND IMPROVEMENTS AND RETURN ALL TO PRE WORK CONDITION. IF EXTERIOR SITE

IMPROVEMENTS ARE REQUIRED, CONTRACTOR TO INSTALL AND MAINTAIN DRAINAGE / RUNOFF MITIGATION MEASURES THROUGH OUT THE PROJECT AND REVEGETATE AREA TO RETURN IT TO ORIGINAL CONDITIONS.

- 3.6. GRUB AND DISPOSE OF ALL ORGANIC MATERIAL PRIOR
- 3.7. NO FILL OR EARTHWORK TO OCCUR WITH ON OR WITH FROZEN MATERIAL

4. MATERIALS:

- 4.1. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND SUPPLIES TO COMPLETE THE PROJECT NOT SPECIFICALLY PROVIDED BY CARRIER. CONTRACTOR TO CLARIFY PROVIDED MATERIALS PRIOR TO FURNISHING A BID.
- 4.2. ALL FURNISHED MATERIALS SHALL MEET CARRIER SPECIFICATIONS AND MINIMUM REQUIREMENTS FOR THE PROJECT. ANY SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY CARRIER CONSTRUCTION MANAGER PRIOR TO PURCHASE AND INSTALLATION.
- 4.3. ALL OUTDOOR STEEL ITEMS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
- 4.4. ALL BOLTS AND HARDWARE TO BE HOT DIPPED GALVANIZED UNLESS SPECIFICALLY REQUIRED TO BE OTHERWISE BY CODE OR CARRIER REQUIREMENT.
- 4.5. ANY DAMAGED GALVANIZING OR PAINT TO BE FIELD REPAIRED WITH 'COLD-GALV' OR APPROPRIATE PAINT UNDER CONDITIONS APPROVED BY PRODUCT MANUFACTURER.

5. GENERAL CABLING

- 5.1. ALL INSTALLED CABLES SHALL HAVE SHEATHS (RISER / PLENUM / OUTDOOR / UV RESISTANT) APPROPRIATE FOR THE MOST RESTRICTIVE ENVIRONMENT WHICH THEY WILL TRAVERSE.
- 5.2. ALL CABLING TO BE SUPPORTED AND LACED PER NEC, LOCAL REQUIREMENTS AND TO MEET CARRIER SPECIFICATIONS.
- 5.3. MAINTAIN REQUIRED SEPARATION BETWEEN CONDUCTORS AND OTHER CABLES AS PRESCRIBED BY CARRIER SPECIFICATIONS AND BEST PRACTICES.
- 5.4. ALL FIRE, SMOKE OR DRAFT BARRIERS SHALL BE REPAIRED SUCH THAT THEY MAINTAIN THEIR INTENDED / REQUIRED RATINGS.
- 5.5. ALL MEASUREMENTS SHOWN ON PLANS ARE TO ADD CONTRACTOR AND DO NOT INCLUDE ANY SLACK OR CABLE DRESSING LENGTH. ALL CABLE LENGTHS SHALL BE FIELD VERIFIED PRIOR TO ORDERING.

6. FIBER OPTICS:

- 6.1. VERIFY SINGLE-MODE OR MULTI-MODE AND CONNECTOR TYPE
- 6.2. ALL CABLES AND CONNECTORS TO BE PRE-APPROVED, OR AN EXCEPTION OBTAINED PRIOR TO PURCHASE AND INSTALLATION
- 6.3. ALL FIBER STRANDS SHALL BE FUSION SPLICED THOUGH OUT THE LENGTH OF THE RUN AND BE TERMINATED AT EACH END OF TRUNK UNLESS SPECIFICALLY NOTED.
- 6.4. ALL TERMINATIONS TO BE LANDED IN A BULKHEAD OR COILED AND PROTECTED IN A SPLICE CASE IF BULKHEAD IS SPACE CONSTRAINED.
- 6.5. ALL SPLICES TO BE FUSION TYPE AND INDIVIDUAL SPLICES SHALL HAVE A LOSS OF LESS THAN 0.1 dB. ANY SPLICES WITH HIGHER LOSSES TO BE REMADE.
- 6.6. ALL FIBERS TO BE TESTED WITH OTDR AND POWER METER. OTDR AND OPTICAL LOSS REPORT PROVIDED IN CLOSEOUT PACKAGE.
- 6.7. ALL FIBER CABLING TO BE INSTALLED IN PROTECTIVE CABLE MANAGEMENT SYSTEMS, DUCT OR BE ARMORED CABLE WHERE TRAVERSING SHARED SPACE.

7. COAX AND ANTENNAS

- 7.1. ALL ANTENNA MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA-222 AND APPLICABLE LOCAL CODES
- 7.2. ALL COAX TO BE INSTALLED PER CARRIER SPECIFICATIONS, SUPPORTED AT A MINIMUM OF EVERY 4'-0" IN PROPERLY SIZED BLOCKS OR OTHER COAX SUPPORTS U.N.O.
- 7.3. ALL COAX TRAVERSING EXTERIOR WALLS SHALL BE PROTECTED ON INTERIOR SIDE WITH LIGHTNING SURGE SUPPRESSOR GROUNDED TO BUILDING GROUNDING SYSTEM OR STEEL (NOT LIGHTNING PROTECTION SYSTEM). PROVIDE COAX GROUND KIT AT ANTENNA AND AS REQUIRED BY CARRIER.
- 7.4. ALL COAX TERMINATIONS SHALL BE LOW PIM AND APPROVED BY CARRIER.
- 7.5. MAINTAIN MINIMUM BEND RADIUS AND SUPPORT CABLE AS NEEDED TO PROTECT CABLES FROM SAGGING, KINKING OR BEING CAUGHT.
- 7.6. ALL COAX TO BE SWEEP (DTF & RETURN LOSS) AND PIM TESTED WITH PASSING REPORTS PROVIDED TO CARRIER.
- 7.7. PROVIDE 50 OHM LOAD ON ALL UNUSED PORTS.
- 7.8. WATERPROOF ALL EXTERIOR CONNECTIONS AND ANY OTHER CONNECTIONS EXPOSED TO MOISTURE OR CONDENSING ENVIRONMENTS WITH SELF AMALGAMATING BUTYL TAPE WITH MINIMUM 1/2" OVERLAP.
- 7.9. TORQUE ALL CONNECTIONS TO MANUFACTURER SPECIFICATIONS WITH APPROPRIATE TORQUE WRENCH.
- 7.10. MOUNT GPS ANTENNA ON 1-1/4" SCH. 40 STEEL OR STAINLESS STEEL PIPE (MIN. 18"). GROUND PIPE WITH BURNDY GROUNDING CLAMP AND INSTALL WITHIN 2° OF VERTICAL.

LINETYPE LEGEND:

COAXIAL

COAX	COAX	COAX	FEEDLINE / JUMPER: GENERIC
PTS1-50	PTS1-50	PTS1-50	FEEDLINE: PTS1-50 1/4" DIAMETER HIGH POWER 50 Ohm
LDF4-50	LDF4-50	LDF4-50	FEEDLINE: LDF4-50 1/2" DIAMETER HIGH POWER 50 Ohm
LDF1-50	LDF1-50	LDF1-50	FEEDLINE: LDF1-50 1/4" DIAMETER HIGH POWER 50 Ohm
HL4RPV	HL4RPV	HL4RPV	FEEDLINE: HL4RPV-50 1/2" DIAMETER HIGH POWER 50 Ohm
FSJ4-50	FSJ4-50	FSJ4-50	FEEDLINE: FSJ4-50 1/2" DIAMETER HIGH POWER 50 Ohm
FSJ1-50	FSJ1-50	FSJ1-50	FEEDLINE: FSJ1-50 1/4" DIAMETER HIGH POWER 50 Ohm
AL4RPV	AL4RPV	AL4RPV	FEEDLINE: AL4RPV-50 1/2" DIAMETER HIGH POWER 50 Ohm
AVA5-50	AVA5-50	AVA5-50	FEEDLINE: AVA5-50 7/8" DIAMETER HIGH POWER 50 Ohm
AVA7-50	AVA7-50	AVA7-50	FEEDLINE: AVA7-50 1-5/8" DIAMETER HIGH POWER 50 Ohm
TFT-402	TFT-402	TFT-402	JUMPER: TFT-402 3/16" DIAMETER LOW PIM 50 Ohm
LMR-240	LMR-240	LMR-240	JUMPER: LMR-240 1/4" DIAMETER LOW PIM 50 Ohm
			JUMPER: UPLINK
			JUMPER: DOWNLINK

COMPOSITE

FO/DC	FO/DC	FO/DC	COMPOSITE CABLE: INDOOR FIBER / DC POWER TRUNK
HYBRID	HYBRID	HYBRID	HYBRID CABLE: OUTDOOR FIBER / DC POWER TRUNK

CONDUIT

1in	1in	1in	CONDUIT: 1 INCH
1.25in	1.25in	1.25in	CONDUIT: 1-1/4 INCH
1.5in	1.5in	1.5in	CONDUIT: 1-1/2 INCH
2in	2in	2in	CONDUIT: 2 INCH
2.25in	2.25in	2.25in	CONDUIT: 2-1/4 INCH
2.5in	2.5in	2.5in	CONDUIT: 2-1/2 INCH
3in	3in	3in	CONDUIT: 3 INCH
3.5in	3.5in	3.5in	CONDUIT: 3-1/2 INCH
4in	4in	4in	CONDUIT: 4 INCH

DATA

ALM	ALM	ALM	ALARM CABLE
CAT5	CAT5	CAT5	COPPER CABLE: CAT5
CAT6	CAT6	CAT6	COPPER CABLE: CAT6
ETH	ETH	ETH	COPPER CABLE: GENERIC ETHERNET
HDMI	HDMI	HDMI	HDMI CABLE

FIBER

MMF	MMF	MMF	MULTI MODE FIBER OPTIC CABLE
SMF	SMF	SMF	SINGLE MODE FIBER OPTIC CABLE
UGF	UGF	UGF	UNDERGROUND FIBER OPTIC CABLE
OHF	OHF	OHF	OVERHEAD FIBER OPTIC CABLE
SM6	SM6	SM6	SINGLE MODE FIBER TRUNK: 6 STRANDS
SM12	SM12	SM12	SINGLE MODE FIBER TRUNK: 12 STRANDS
SM24	SM24	SM24	SINGLE MODE FIBER TRUNK: 24 STRANDS
SM48	SM48	SM48	SINGLE MODE FIBER TRUNK: 48 STRANDS
SM96	SM96	SM96	SINGLE MODE FIBER TRUNK: 96 STRANDS
SM144	SM144	SM144	SINGLE MODE FIBER TRUNK: 144 STRANDS
SM288	SM288	SM288	SINGLE MODE FIBER TRUNK: 288 STRANDS

POWER / GROUND

ACP	ACP	ACP	POWER: AC
DCP	DCP	DCP	POWER: DC
OHP	OHP	OHP	POWER: OVERHEAD
UGP	UGP	UGP	POWER: UNDERGROUND
750MCM	750MCM	750MCM	POWER CONDUCTOR: #750 MCM
500MCM	500MCM	500MCM	POWER CONDUCTOR: #500 MCM
250MCM	250MCM	250MCM	POWER CONDUCTOR: #250 MCM
4/0AWG	4/0AWG	4/0AWG	POWER CONDUCTOR: #4/0 GAUGE
3/0AWG	3/0AWG	3/0AWG	POWER CONDUCTOR: #3/0 GAUGE
2/0AWG	2/0AWG	2/0AWG	POWER CONDUCTOR: #2/0 GAUGE
1/0AWG	1/0AWG	1/0AWG	POWER CONDUCTOR: #1/0 GAUGE
2 AWG	2 AWG	2 AWG	POWER CONDUCTOR: #2 GAUGE
4 AWG	4 AWG	4 AWG	POWER CONDUCTOR: #4 GAUGE
6 AWG	6 AWG	6 AWG	POWER CONDUCTOR: #6 GAUGE
8 AWG	8 AWG	8 AWG	POWER CONDUCTOR: #8 GAUGE
10AWG	10AWG	10AWG	POWER CONDUCTOR: #10 GAUGE
12AWG	12AWG	12AWG	POWER CONDUCTOR: #12 GAUGE
GND	GND	GND	GROUND CONDUCTOR

SYMBOL KEY:

- GROUNDING BOND: EXOTHERMIC / WELD
- GROUNDING BOND: MECHANICAL
- ▲ GROUNDING BOND: COMPRESSION
- GROUND ROD
- GROUND ROD W/ INSPECTION WELL

ONTIVITY
LOCAL CONNECTIONS | NATIONAL SOLUTIONS

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE
09/29/2025

IG
Intermountain Infrastructure Group

533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

IG

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:

NO	DESC	DATE:
0	CDs	9/29/2025

LEGEND & SYMBOL
KEY

GN2

SCALE SET FOR 24"x36" SHEET
USE 1/2 SCALE FOR 11"x17" SHEET

ABBREVIATIONS:

A/C	AIR CONDITIONING	MAX	MAXIMUM
AC	ALTERNATING CURRENT	MBO	MULTI-BAND OUTDOOR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AWS	ADVANCED WIRELESS SERVICE	MFR	MANUFACTURER
BBU	BASE BAND UNIT	MIMO	MULTIPLE IN MULTIPLE OUT
BRS	BROADBAND RADIO SERVICE	MIN	MINIMUM
BTS	BASE TRANSMISSION STATION	MISC	MISCELLANEOUS
C	CONDUIT	MMF	MULTI MODE FIBER
CC	CENTER TO CENTER	N/A	NOT APPLICABLE
CONC	CONCRETE	NTS	NOT TO SCALE
D	DEPTH	OC	ON CENTER
DC	DIRECT CURRENT	ONEW	ON CENTER EACH WAY
°, DEG	DEGREE	OD	OUTSIDE DIAMETER
Ø, DIA	DIAMETER	PCS	PERSONAL COMMUNICATION
DIAG	DIAGONAL	SERVICE	SERVICE
DISC	DISCONNECT	PDU	POWER DISTRIBUTION UNIT
EX	EXISTING	PVC	POLYVINYL CHLORIDE
EA	EACH	RAN	RADIO ACCESS NETWORK
EMT	ELECTRICAL METALLIC TUBE	REQ	REQUIRED
EXT	EXTERIOR	RF	RADIO FREQUENCY
FT	FOOT, FEET	RFDS	RADIO FREQUENCY DATA SHEET
FO	FIBER OPTIC	RRH	REMOTE RADIO HEAD
GA	GAUGE	SBO	SINGLE-BAND OUTDOOR
GB	GROUND BAR	SISO	SINGLE IN SINGLE OUT
GC	GENERAL CONTRACTOR	SMF	SINGLE MODE FIBER
GPS	GLOBAL POSITIONING SYSTEM	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UMTS	UNIVERSAL MOBILE
GRND	GROUND	UNO	UNLESS NOTED OTHERWISE
GSM	GLOBAL SYSTEM MOBILE	VERT	VERTICAL
HH	HANDLE	W/	WITH
HORZ	HORIZONTAL	W/O	WITHOUT
ID	INSIDE DIAMETER	WCS	WIRELESS COMMUNICATION
INT	INTERIOR	SERVICE	SERVICE
L	LENGTH	XMF	TRANSFORMER
LBS	POUNDS		
LTE	LONG TERM EVOLUTION		

NOTES:

- PROPERTY LINES SHOWN ARE BASED ON AVAILABLE DATA AND ARE FOR REFERENCE ONLY. FINAL PROPERTY BOUNDARIES TO BE VERIFIED BY OWNER OR LAND SURVEYOR AS REQUIRED.



SITE NAME: BLANCHARD

SITE ADDRESS: 32622 STATE HIGHWAY 41, BLANCHARD, ID 83804

PROJECT: FIBER HUT

SET ISSUE:

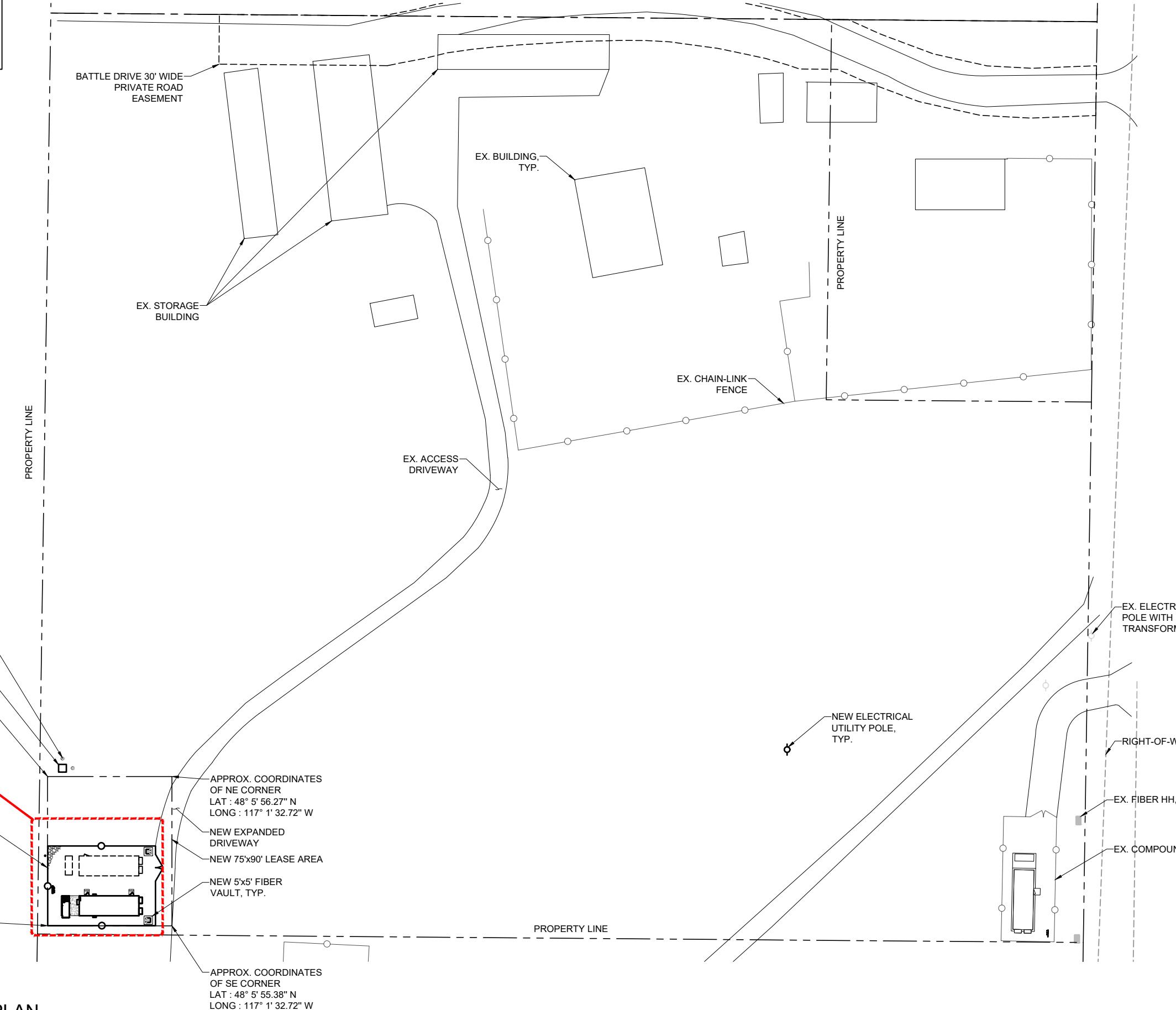
NO	DESC	DATE:
0	CDs	9/29/2025

OVERALL SITE PLAN

A 1.0

1
OVERALL SITE PLAN

SCALE: 1/32" = 1'-0"
0' 16' 32' 64'
Scale: 1/32" = 1'-0"



NOTES:

1. NEW CHAIN-LINK FENCE TO MATCH EXISTING
2. NEW COMPOUND GRAVEL SURFACE TO MATCH EXISTING
3. NEW FIBER VAULT(S) TO BE PROVIDED & INSTALLED BY IIG
4. PROPERTY LINES SHOWN ARE BASED ON AVAILABLE DATA AND ARE FOR REFERENCE ONLY. FINAL PROPERTY BOUNDARIES TO BE VERIFIED BY OWNER OR LAND SURVEYOR AS REQUIRED.

ONTIVITY
LOCAL CONNECTIONS | NATIONAL SOLUTIONS

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE

09/29/2025

IIG

Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

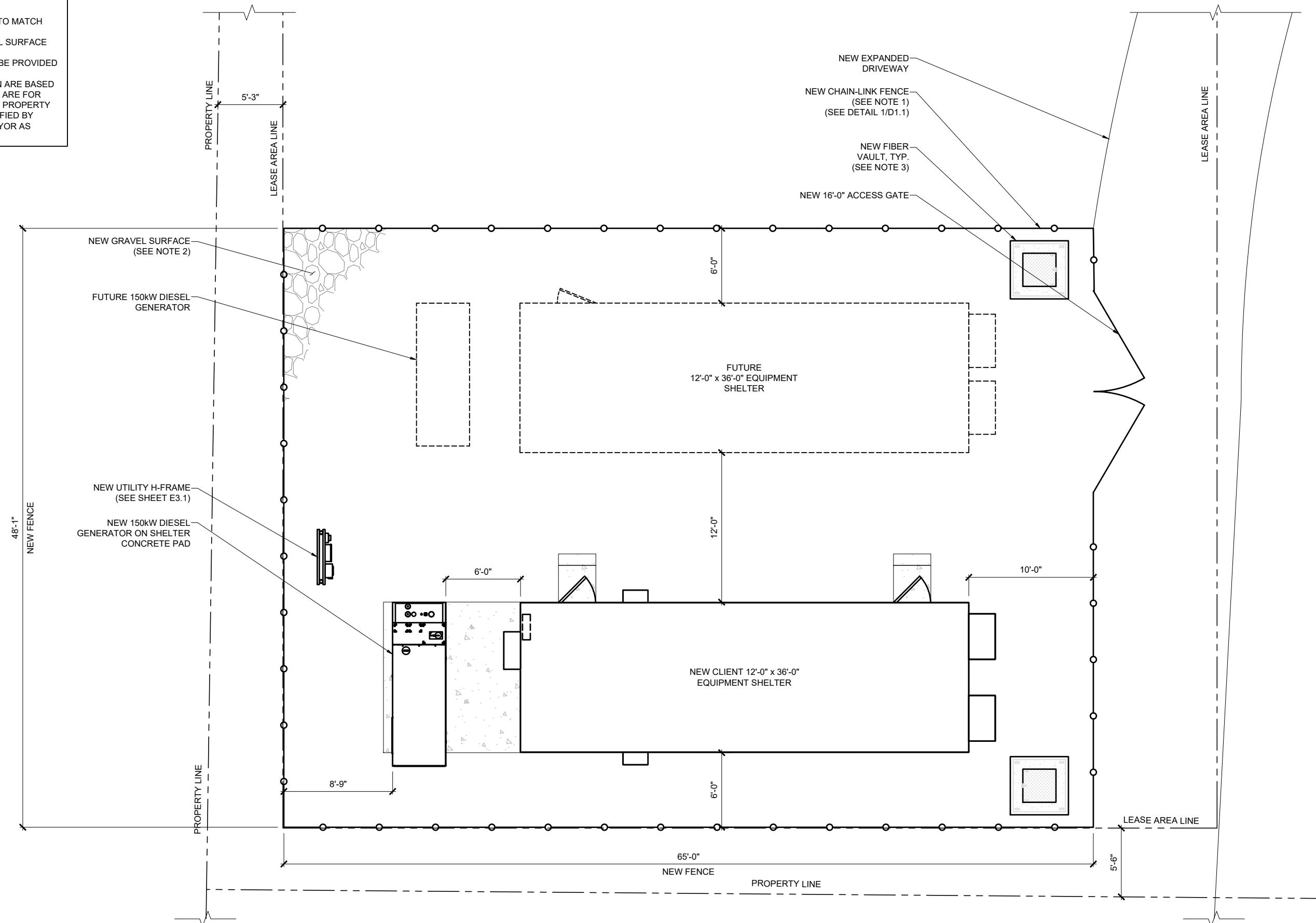
SET ISSUE:

NO	DESC	DATE:
0	CDs	9/29/2025

DETAILED NEW SITE PLAN

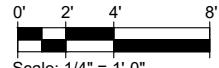
A2.1

SCALE SET FOR 24" x 36" SHEET
USE 1/2 SCALE FOR 11" x 17" SHEET



1 DETAILED NEW SITE PLAN

SCALE: 1/4" = 1'-0"



Scale: 1/4" = 1'-0"

11



09/29/2025



Intermountain Infrastructure Group

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:		
NO	DESC	DATE:
0	CDs	9/29/2025

SITE SIGNAGE LAYOUT

A2.2

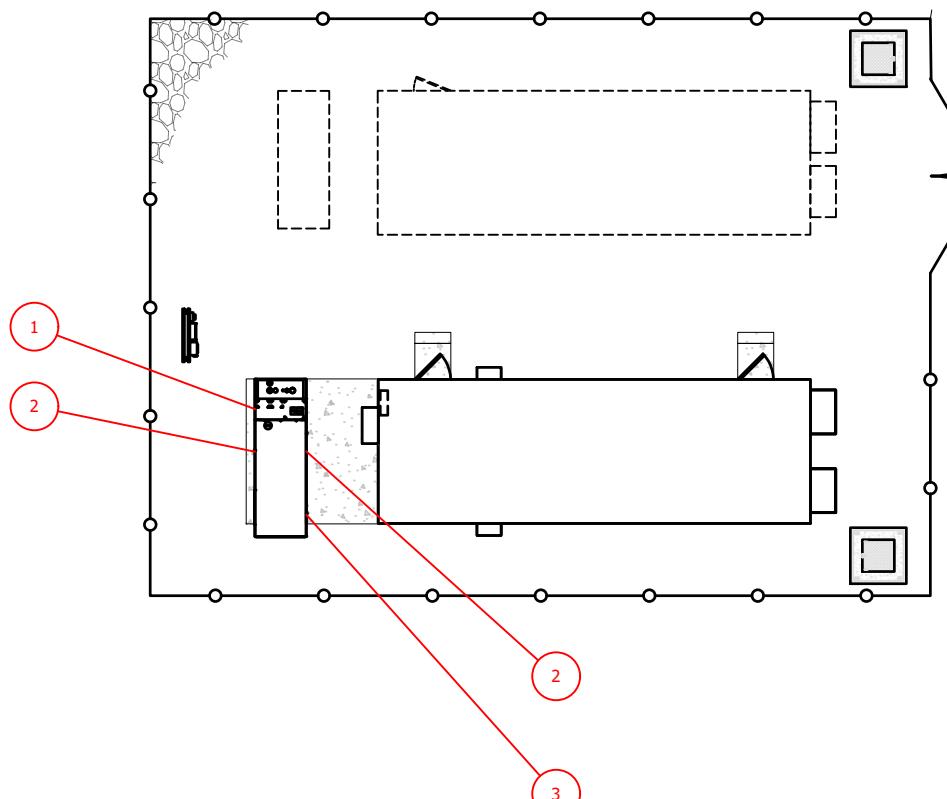
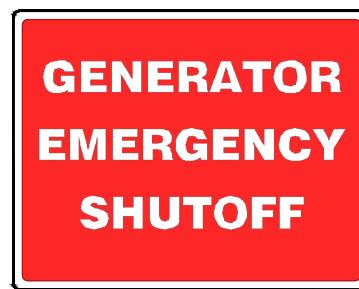
SCALE SET FOR 24"X36" SHEET
USE 1/2 SCALE FOR 11"X17" SHEET

SIGNAGE KEY			
ID	DESCRIPTION	LOCATION	QTY
1	DANGER FLAMMABLE MATERIAL NO SMOKING	GENERATOR FUEL TANK	2
2	DANGER DIESEL FUEL	GENERATOR ACCESS DOOR	1
3	GENERATOR EMERGENCY SHUTOFF	ABOVE INTEGRATED GENERATOR SHUT-OFF SWITCH	1
		TO LEFT OF FIBER HUT ACCESS DOOR (MIN 20' FROM GENERATOR)	2

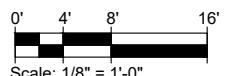
NOTES:

1 PROVIDE SECONDARY SHELTER MOUNTED GENERATOR SHUT OFF SWITCH IN BREAK GLASS TYPE WEATHERPROOF ENCLOSURE TO COMPLY WITH NFPA 110.

2 SECONDARY LOCATION TO BE MIN. 20' FROM GENERATOR ENCLOSURE.



1 SITE SIGNAGE PLAN
SCALE: 1/8" = 1'-0"



Scale: 1/8" = 1'-0"

SCALE SET FOR 24"X36" SHEET
USE 1/2 SCALE FOR 11"X17" SHEET



IIG
Intermountain Infrastructure Group

533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

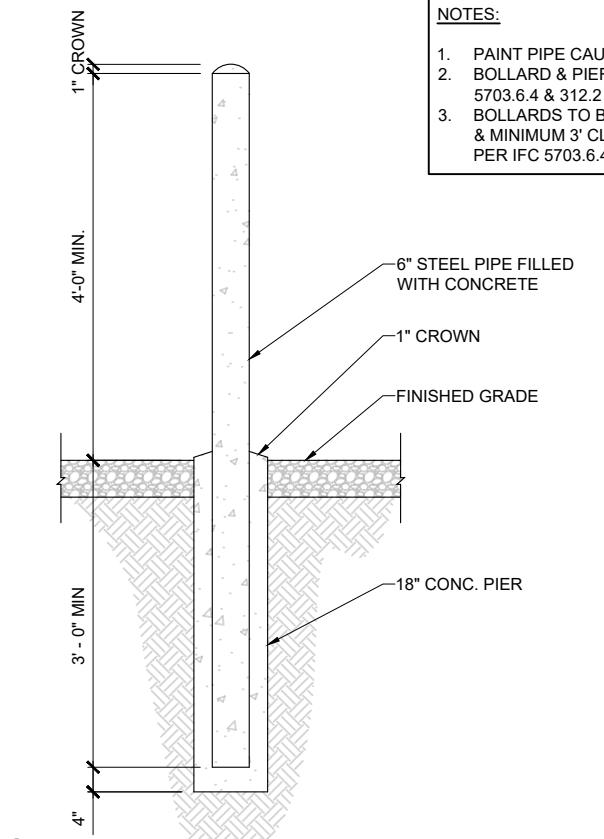
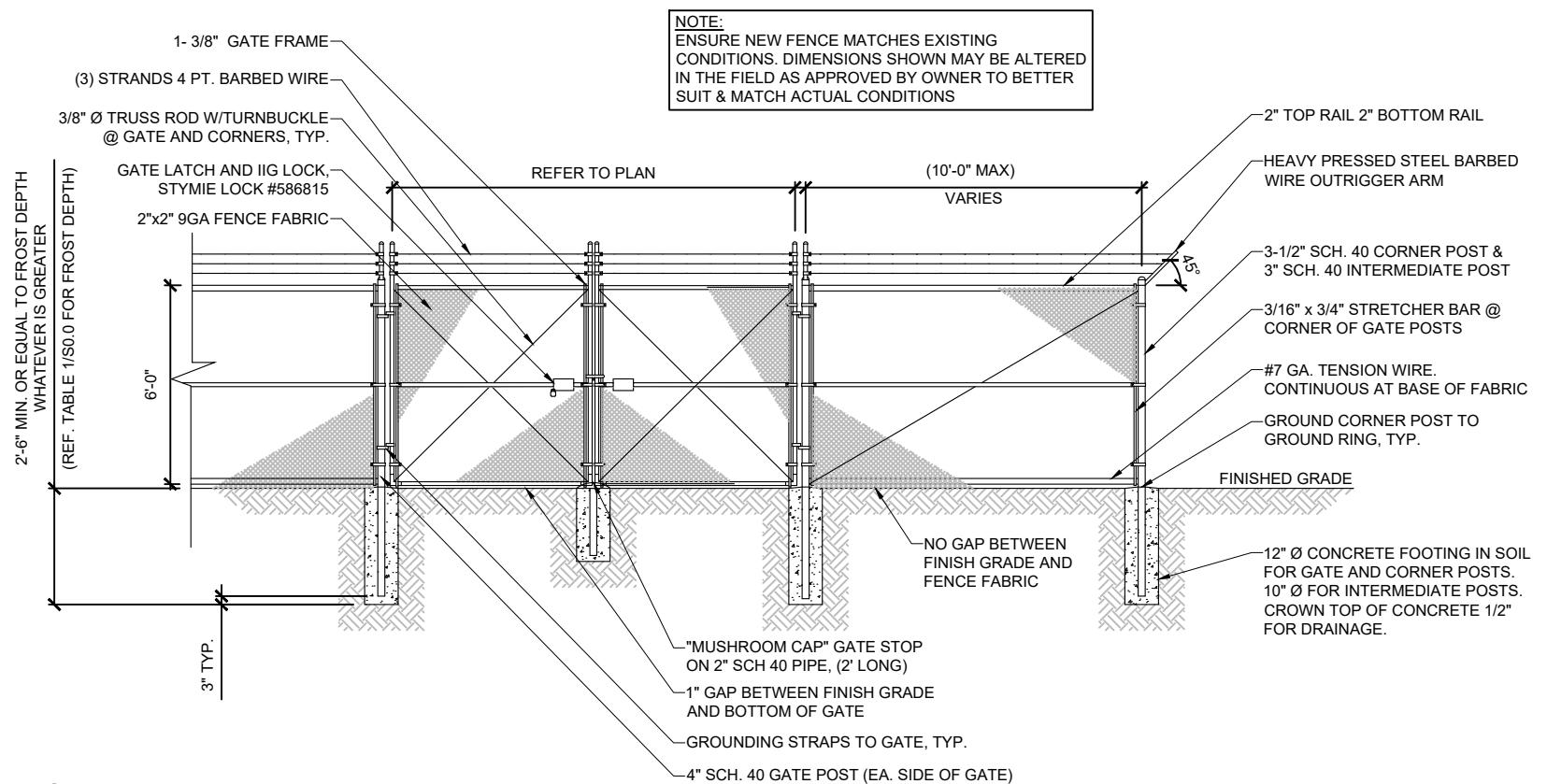
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:		
NO	DESC	DATE:
0	CDs	9/29/2025

DETAILS

D 1.1





533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

STRUCTURAL
NOTES

SO.O

1. CODES
1.1. (IBC) INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS

2. GENERAL:
2.1. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE OF THE TIME WHEN A SIGNIFICANT PORTION OF THE REINFORCING HAS BEEN TIED AND WHEN THE CONCRETE IS TO BE POURED FOR SCHEDULING SITE INSPECTIONS.
2.2. POSITIVE DRAINAGE SHALL BE PROVIDED ADJACENT TO ALL FOUNDATIONS SO PONDING OF RAINFALL NEAR THE FOUNDATIONS DOES NOT OCCUR.
2.3. DURING CONSTRUCTION, TEMPORARY GRADES SHALL BE ESTABLISHED TO PREVENT RUNOFF FROM ENTERING THE FOUNDATION AND ANCHORAGE EXCAVATIONS.
2.4. DRAINAGE PATTERNS APPROVED AT THE TIME OF FINISH GRADING SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE TOWER.

3. CONCRETE MIXTURE:
3.1. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL SP-68 (LATEST REVISION).

3.2. REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615, EXCEPT TIES WHICH MAY BE ASTM A615 (GRADE 40). USE CLASS 8 LAP SPLICES.

3.3. ALL REINFORCING BARS SHALL BE TIED WITH TIE WIRE AT ALL REINFORCING BAR INTERSECTIONS. THE CONTRACTOR SHALL SUPPORT THE REINFORCING BAR MAT WITH STEEL CHAIRS SPACED NO MORE THAN 4 FEET O.C.

3.4. ALL WATER SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION PRIOR TO COMPACTING FILL AND PLACING CONCRETE.

3.5. CONCRETE SHALL BE NORMAL WEIGHT (N.W.) AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

3.6. ALL CONCRETE SHALL HAVE AIR ENTRAINMENT AS BELOW:

NOMINAL MAXIMUM AGGREGATE SIZE, in.	TARGET AIR CONTENT, PERCENT F1
3/8	6
1/2	5.5
3/4	5
1	4.5
1-1/2	4.5
2	4
3	3.5

3.7. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL WHERE POSSIBLE. FORMS, WHEN REQUIRED SHALL BE REMOVED PRIOR TO BACKFILLING. THE MAXIMUM WATER CEMENT RATIO SHALL BE 0.55.

3.8. PREPARE AND SUBMIT BATCH TICKETS FOR EACH TYPE AND STRENGTH OF CONCRETE. CEMENT SHALL CONFORM TO ASTM C150 TYPE-1.

3.9. FOR FIELD MIXING, PREPARE AND SUBMIT MIX DESIGNS FOR PRE-APPROVAL FOR EACH TYPE AND STRENGTH OF CONCRETE IN ACCORDANCE WITH ACI 211, "PROPORTIONING CONCRETE MIXTURES", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

3.10. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 3 INCHES ($\pm 1"$) UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A,B,C,D OR E. THE ENGINEER SHALL PRE-APPROVE SUPERPLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.

3.11. FINE AGGREGATE SHALL CONFORM TO ASTM C33. COURSE AGGREGATE SHALL BE GRAVEL OR CRUSHED STONE CONFORMING TO ASTM C33. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".

3.12. WATER SHALL BE CLEAN AND FREE FROM OILS, ACIDS, ALKALIES AND ORGANIC MATERIALS. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

3.13. HOT WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 305R. COLD WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 306.1.

3.14. CONCRETE SHALL NOT BE POURED WHEN TEMPERATURES ARE LOWER THAN 32°F. ACCELERATORS SUCH AS CALCIUM CHLORIDE SHALL NOT BE USED.

3.15. CONCRETE SHALL NOT BE POURED DURING FREEZING OR NEAR-FREEZING TEMPERATURES. IF TEMPERATURE IS BELOW 40°F, ALL CONCRETE PLACED IN FORMS SHALL HAVE A TEMPERATURE OF 70° TO 80°F. DURING FREEZING OR NEAR-FREEZING WEATHER, CONCRETE MUST BE HEATED TO 70°F FOR 5 DAYS OR 50°F FOR 7 DAYS. A COVERING MUST BE MAINTAINED IN PLACE 2 HOURS AFTER HEATING HAS BEEN DISCONTINUED.

3.16. CONCRETE SHALL BE PLACED WITH 24 HOURS OF EXCAVATION INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXPOSED EXCAVATIONS PRIOR TO CONCRETE PLACEMENT.

3.17. PLACE CONCRETE BY USING A CHUTE OR HOPPER DEVICE SUCH THAT CONCRETE SHALL NOT FREE FALL FROM A HEIGHT GREATER THAN 5 FEET. DEPOSIT CONCRETE WITHIN THE CENTER OF THE STEEL REINFORCING CAGE TO PREVENT SEGREGATION.

3.18. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT IN ACCORDANCE WITH ACI 309R. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE.

3.19. CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI 301. WHEN APPLICABLE, CURING COMPOUNDS SHALL BE WATER CLEAR, STYRENE ACRYLATE TYPE A MINIMUM SOLIDS CONTENT OF 30%. APPLICATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.20. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318. A MINIMUM OF (2) 6" x 12" CONCRETE CYLINDERS PER ANCHOR BLOCK AND A MINIMUM OF (6) 6" x 12" CYLINDERS PER BATCH REQUIRED.

3.21. FOR THE LESSER OF 26 C.Y. OR ONE DAY'S PLACEMENT, A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN. CONCRETE SHALL BE TESTED AS REQUIRED BY OWNER'S PROJECT MANAGER

THE SHALLOWER SOILS.

8. SLAB-ON-GRADE

8.1. SLAB-ON-GRADE FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING DESIGN FOR SITE PREPARATION, DRAINAGE, AND MAINTENANCE.
8.2. WITHIN THE AREA OF THE PROPOSED SLAB-ON-GROUND, REMOVE AND DISPOSE OF ALL SURFACE VEGETATION, ANY DELETERIOUS MATERIALS WHICH MAY BE PRESENT, AND ALL SOIL REQUIRED TO PROVIDE FOUNDATION BACKFILL BELOW AND ADJACENT TO THE SLAB AS INDICATED IN THE DRAWINGS. IF SOFT, WEAK, OR UNSTABLE SOIL CONDITIONS ARE REVEALED, OVER EXCAVATE THE AREA AND BRING BACK TO GRADE WITH FOUNDATION BACKFILL.
8.3. PLACE A 15 MIL POLYETHYLENE, ASTM E 1745 (CLASS A), VAPOR BARRIER OVER COMPAKTED SOIL PRIOR TO PLACING FOUNDATION SLAB.
8.4. REFER TO PLANS FOR STIFFENED SLAB-ON-GRADE DIMENSIONS, THICKNESS, AND REINFORCING.
8.5. THE TROWEL FINISHED CONCRETE SLAB-ON-GRADE FLOOR PROFILE SHALL COMPLY WITH THE FOLLOWING FLATNESS AND LEVELNESS VALUES AS DEFINED IN THE ASTM E 1155:

SPECIFIED
OVERALL

MINIMUM
LOCAL

FLATNESS (FF)
LEVELNESS (FL)

25
20

17
15

9. ANCHOR BOLTS:

9.1. ANCHOR BOLTS SHALL CONFORM TO ASTM A307 WITH HEAVY HEXAGONAL NUTS.

10. BOLTS:

10.1. COMMON (MACHINE) BOLTS SHALL CONFORM TO ASTM A307 GRADE A AND NUTS TO ASTM A563. ONE COMMON BOLT ASSEMBLY SHALL CONSIST OF A BOLT, A HEAVY HEX NUT AND A HARDENED WASHER AND A LOCK WASHER.
10.2. HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325; ONE HIGH STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY HEX NUT, A HARDENED WASHER, AND A LOCK WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST THE ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.

SITE	LATITUDE	LONGITUDE	CITY	COUNTY	STATE	FROST DEPTH
Snohomish WA	47.90107	-122.85715	Snohomish	Snohomish county	WA	12"
Trinidad WA	47.23799	-119.85777	Trinidad	Grant	WA	24"
Soap Lake WA	47.3827167	-119.3459388	Soap Lake	Grant	WA	24"
Odessa WA	47.333	-118.6911472	Odessa	Lincoln	WA	24"
Harrington WA	47.836056	-118.2605917	Harrington	Lincoln	WA	30"
Espanola WA	47.6141306	-117.7371833	Medical Lake	Spokane	WA	30"
Chattaroy WA	47.8895444	-117.3430944	Chattaroy	Spokane	WA	30"
Blanchard ID	48.098194	-117.0235611	Blanchard-Glenary, ID	Bonner County	ID	36"
Sandpoint ID	48.3240056	-116.4402778	Sandpoint	Bonner	ID	36"
Noxon MT	48.0726417	-115.9534417	Heron	Sanders	MT	42"
Thompson Falls MT	47.6194417	-115.3972611	Thompson Falls	Sanders	MT	42"
Paradise MT	47.3523194	-114.7742278	Plains	Sanders	MT	42"
Superior MT	47.1813333	-114.8628639	Superior	Mineral	MT	42"
Frenchtown MT	47.1262472	-447.2753278	Frenchtown	Missoula	MT	42"
Turah, MT	46.7985667	-113.765556	Clinton	Missoula	MT	42"
Drummond MT	46.6670722	-113.145075	Drummond	Granite	MT	48"
Deer Lodge MT	46.3370833	-112.7308806	Deer Lodge	Powell	MT	48"
Butte MT	45.9172222	-112.4907333	Butte	Silver Bow	MT	48"
Willow Creek, MT	45.8210056	-11.8331157	Whitehall	Jefferson	MT	48"
Bemis, WA	46.9088222	-118.3331611	Lind-Washluncna	Adams	WA	24"
Pickard, WA	46.4355306	-118.4075139	Eureka Flat, WA	Walla walla	WA	24"
Touchet WA	46.0383611	-1187661	Touchet, WA	Walla walla	WA	24"

7.

7. MOISTURE MANAGEMENT

7.1. EVERY EFFORT SHALL BE MADE TO KEEP EXCAVATIONS DRY SHOULD GROUNDWATER BE ENCOUNTERED.

7.2. SEEPAGE CAN BE EFFECTIVELY HANDLED BY SIMPLE DEWATERING METHODS, SUCH AS PERIPHERY DITCHES AND SUMPS. A SUITABLE SUMP COULD CONSIST OF A LARGE DIAMETER PIPE SET VERTICALLY WITH A COARSE SAND AND GRAVEL MIXTURE PLACED IN THE BOTTOM TO ACT AS A FILTER.

7.3. CARE SHALL BE EXERCISED IN PUMPING DIRECTLY FROM THE EXCAVATION SINCE THIS MAY CAUSE DETERIORATION OF THE EXCAVATION BASE.

7.4. THE TRAFFIC OF HEAVY EQUIPMENT (INCLUDING HEAVY COMPACTION EQUIPMENT) MAY CREATE PUMPING AND GENERAL DETERIORATION OF



IIG
Intermountain Infrastructure Group

533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

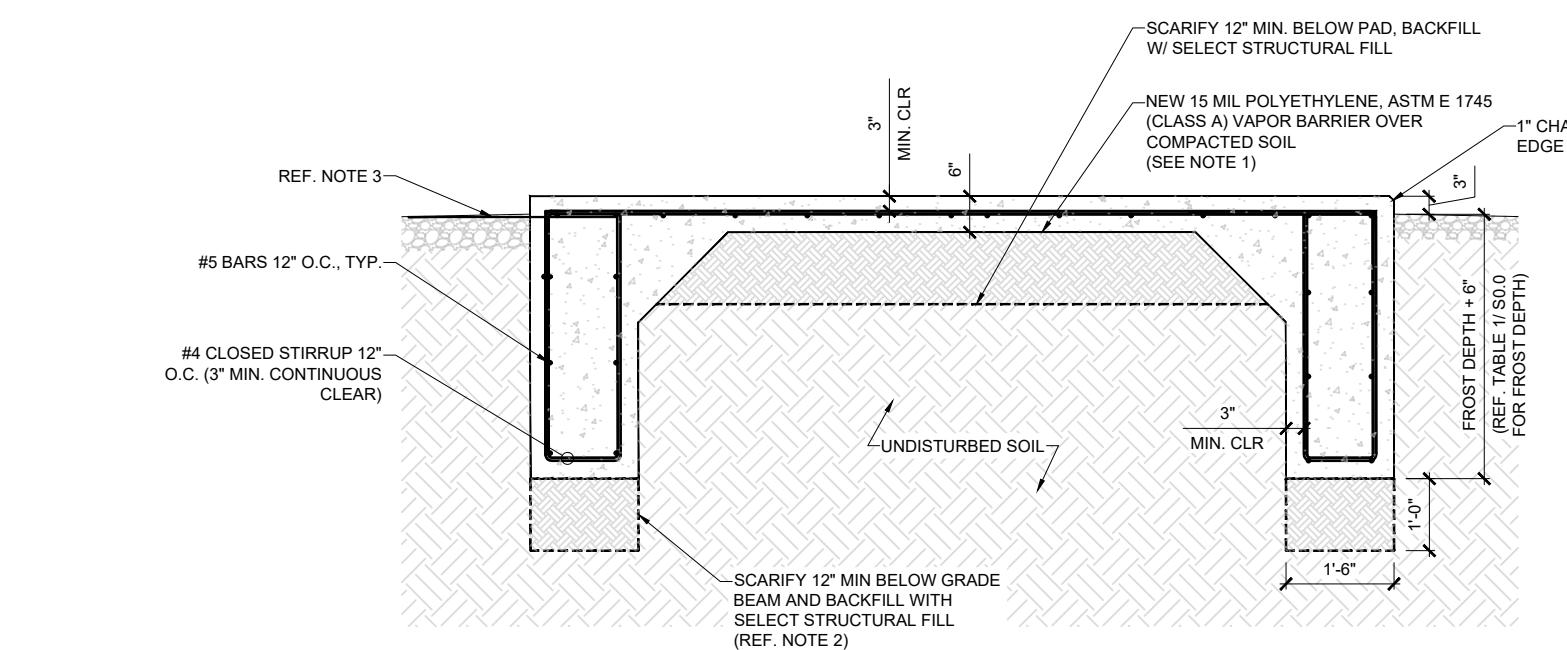
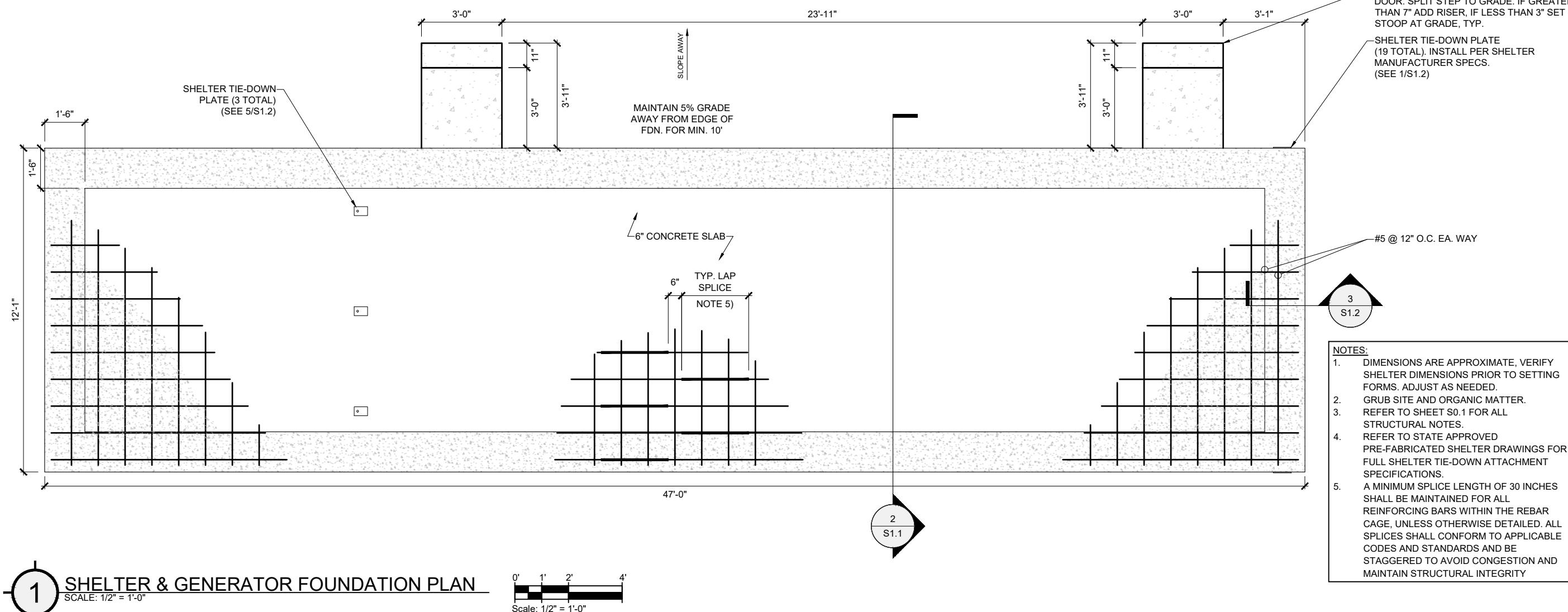
PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

STRUCTURAL DETAILS

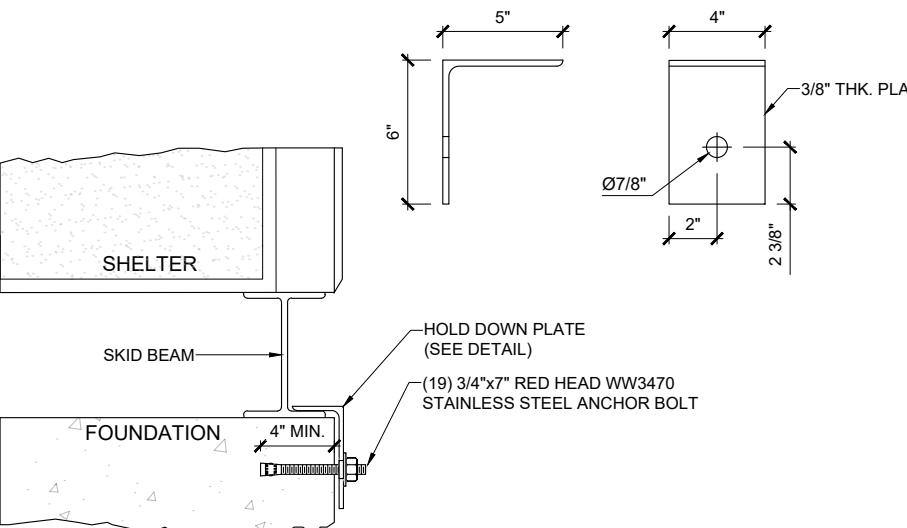
S 1 . 1

SCALE SET FOR 24" x 36" SHEET
USE 1/2 SCALE FOR 11" x 17" SHEET

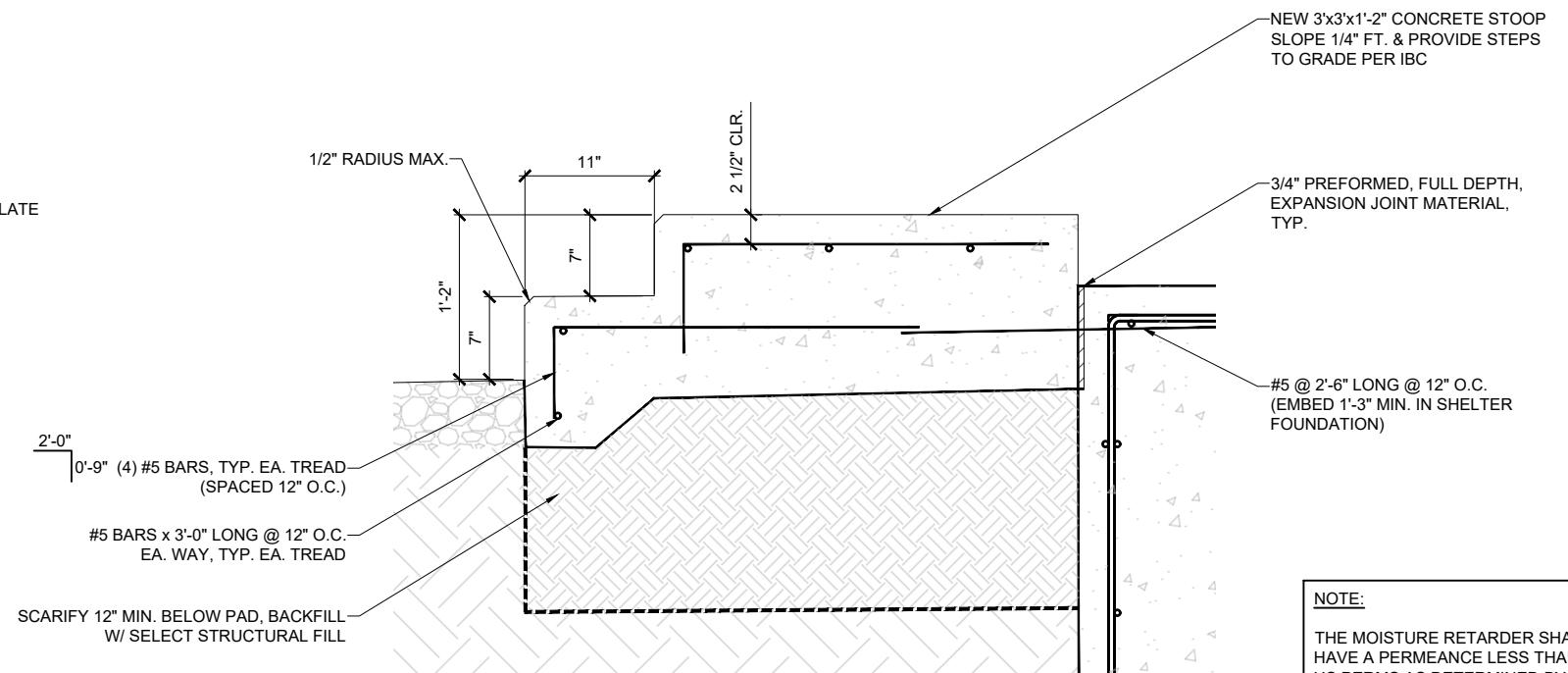


CONTRACTOR NOTE:

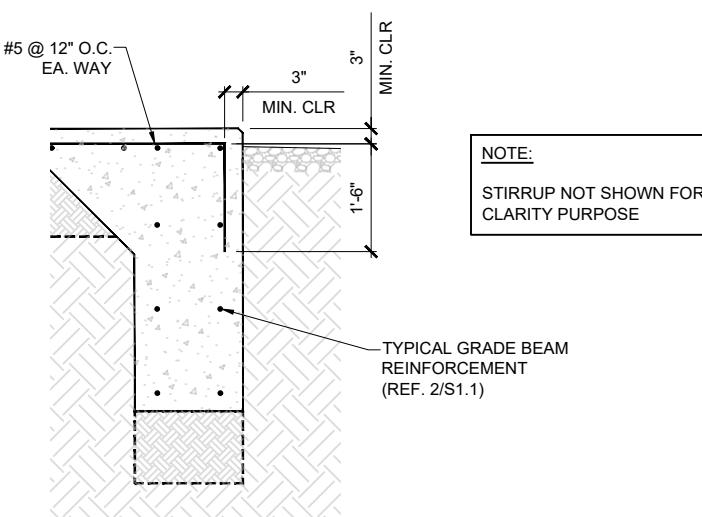
REFER TO GENERATOR MANUFACTURER'S
RECOMMENDATIONS FOR ANCHORING TO
SLAB. DETAILS NOT SHOWN IN THIS SET.



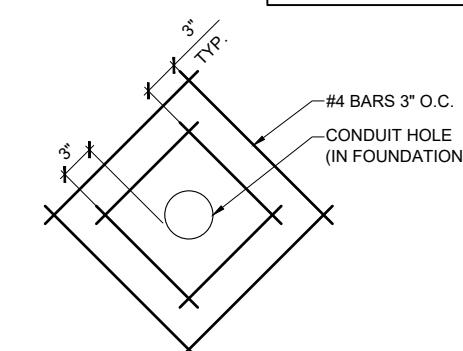
1 ANCHOR PLATE DETAIL - 1
SCALE: N.T.S.



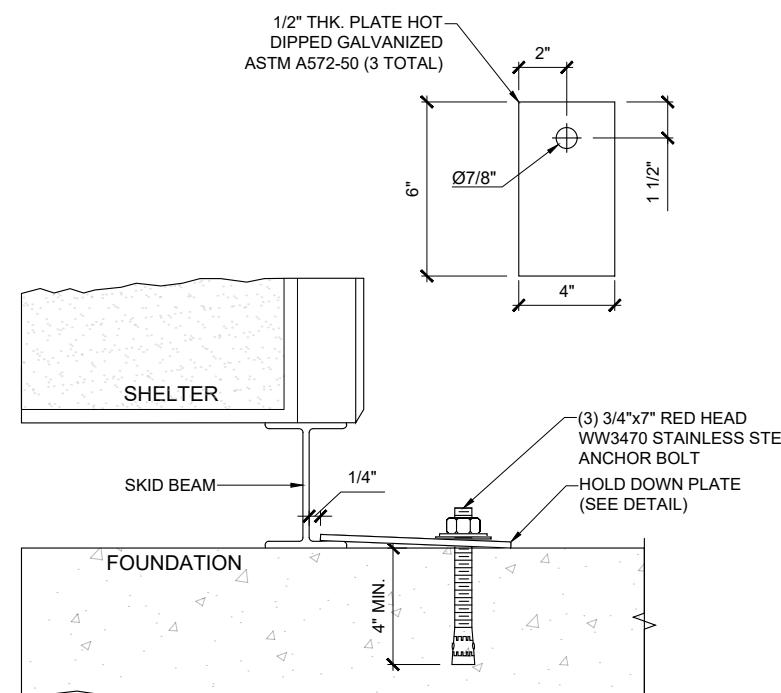
2 STOOP FOUNDATION SECTION
SCALE: 1-1/2" = 1'-0"
0' 3" 6" 1' 1'-6"
Scale: 1-1/2" = 1'-0"



3 SHELTER FOUNDATION SECTION
SCALE: 3/4" = 1'-0"
0' 6" 1' 2' 3'
Scale: 3/4" = 1'-0"



4 REBAR DETAIL AT CONDUIT HOLE
SCALE: N.T.S.



5 ANCHOR PLATE DETAIL - 2
SCALE: N.T.S.

ONTIVITY
LOCAL CONNECTIONS | NATIONAL SOLUTIONS

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE
09/29/2025

IIIG
Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

SITE NAME:

BLANCHARD

SITE ADDRESS:

32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:

FIBER HUT

SET ISSUE:

NO	DESC	DATE:
0	CDs	9/29/2025

STRUCTURAL
DETAILS

S 1.2



REINFORCEMENT STEEL SCHEDULE FOR SHELTER AND GENERATOR FOUNDATION

S.NO	TYPE	REBAR SIZE	REBAR SPACING	DIMENSIONS				QUANTITY
				a	b	c	d	
1	D	#5	1'-0"	46'-6" (NOTE 1)	1'-6"	0'-2 1/2"	-	13
2	A	#5	1'-0"	11'-7"	-	-	-	X (REF. TABLE 1)
3	B	#4	1'-0"	1'-0"	FROST D. + 3"	0'-3"	0'-2"	118
4	A	#5	1'-0"	46'-6" (NOTE 1)	-	-	-	Y (REF. TABLE 1)
5	A	#4	0'-3"	VARIABLE	-	-	-	NOTE 2

NOTE:

1. A MINIMUM SPLICE LENGTH OF 30 INCHES SHALL BE MAINTAINED FOR ALL REINFORCING BARS WITHIN THE REBAR CAGE, UNLESS OTHERWISE DETAILED. ALL SPLICES SHALL CONFORM TO APPLICABLE CODES AND STANDARDS AND BE STAGGERED TO AVOID CONGESTION AND MAINTAIN STRUCTURAL INTEGRITY (REFER 1/S1.1).
2. THE REBAR QUANTITY WILL VARY BASED ON THE NUMBER OF CONDUITS PASSING THROUGH THE PAD.

TABLE-1

FROST DEPTH	QUANTITY	
	X	Y
0" TO 18"	52	4
19" TO 30"	56	8
31" TO 42"	60	12
43" TO 54"	64	16

REINFORCEMENT STEEL SCHEDULE FOR EACH STOOP

S.NO	TYPE	REBAR SIZE	REBAR SPACING	DIMENSIONS				QUANTITY
				a	b	c	d	
1	A	#5	1'-0"	2'-6"	-	-	-	9
2	C	#5	1'-0"	2'-7"	0'-9"	0'-2 1/2"	-	8



533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



Intermountain Infrastructure Group

SITE NAME:
BLANCHARD

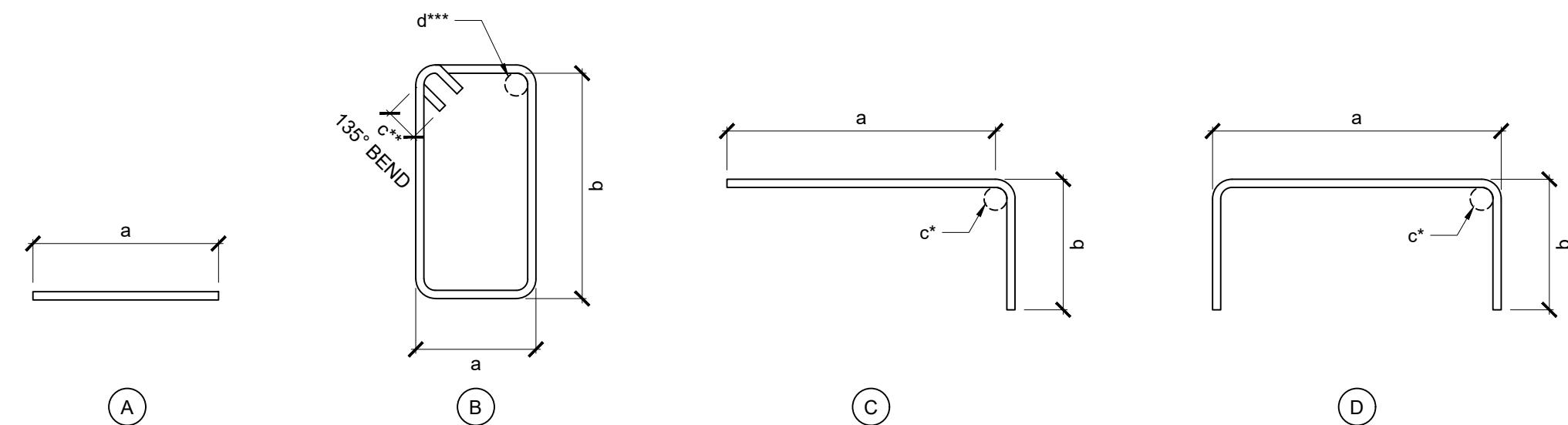
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:
NO DESC DATE:
0 CDs 9/29/2025

**STRUCTURAL
DETAILS**

S 1.3



* - NUMBER OF BENDS



SITE NAME:
BLANCHARD

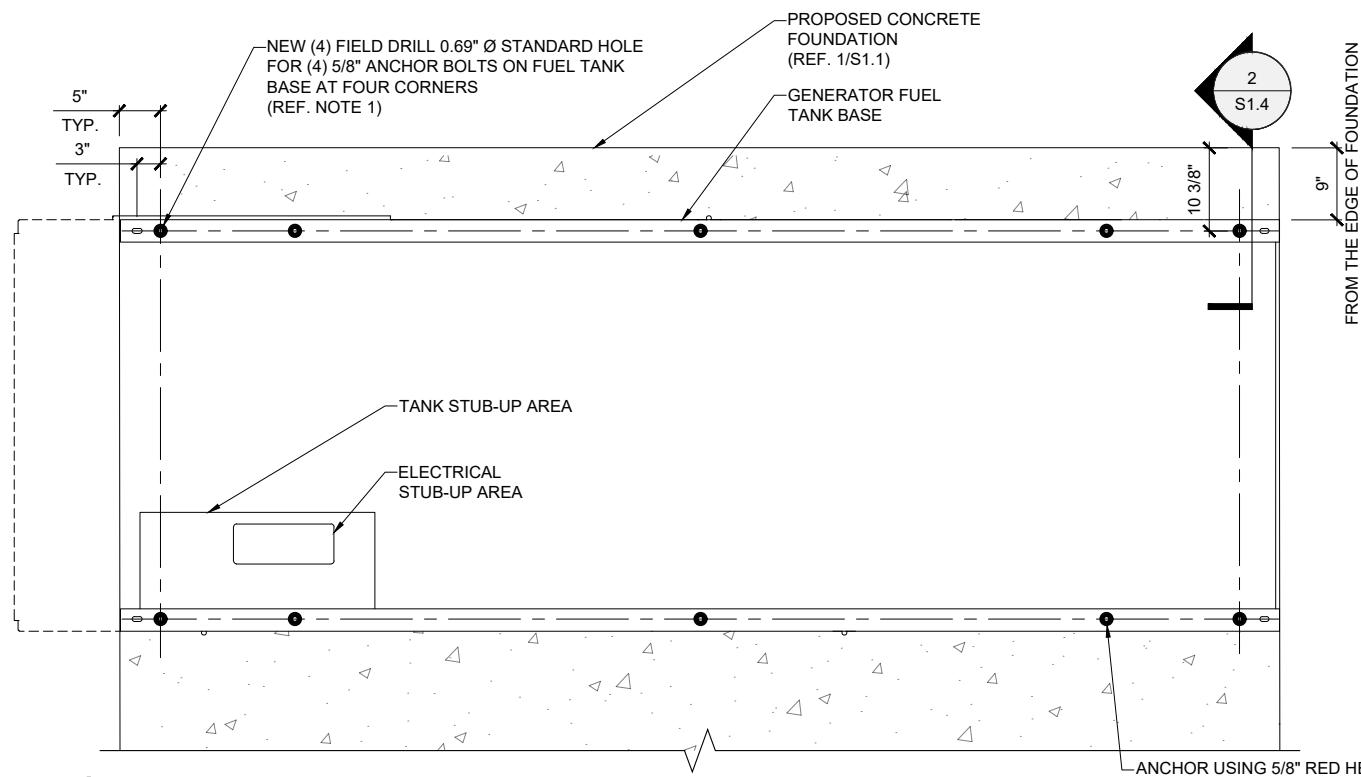
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

STRUCTURAL
DETAILS

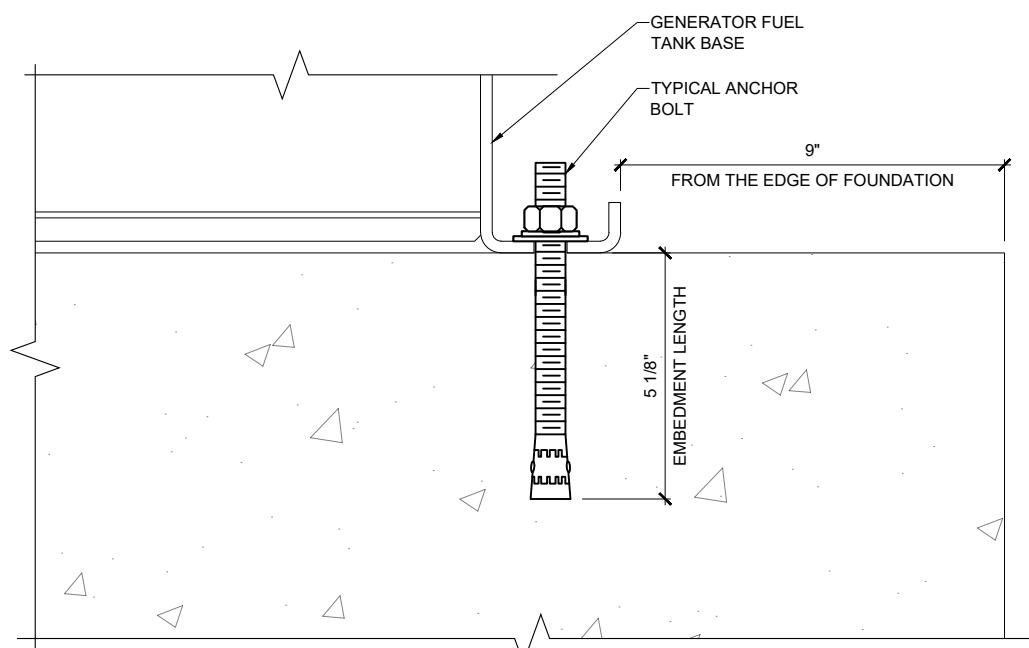
S 1.4



1 150 KW GENERATOR ANCHORS DETAIL- PLAN

SCALE: 1" = 1'-0"

0' 6" 1' 2'
Scale: 1" = 1'-0"



2 GENERATOR ANCHOR BOLT DETAIL - ELEVATION

SCALE: 6" = 1'-0"

0' 3" 6"
Scale: 6" = 1'-0"

NOTES:

1. FIELD CUTTING AND FIELD DRILLING MAY BE NECESSARY TO ACHIEVE THE REQUIRED DIMENSIONS. CUTTING, DRILLING, AND RUST LOCATIONS SHALL BE MECHANICALLY CLEANED WITH METAL BRISTLE BRUSH. APPLY TWO BRUSH-ON COATS OF ZINGA/ZRA (OR PPROVED EQUIVALENT).
2. MANUFACTURER PROVIDED SLOTS WITH SIZES AS APPROPRIATE.

ELECTRICAL

1. CODES

1.1. (NEC) NATIONAL ELECTRICAL CODE

2. GENERAL

2.1. CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR AND MATERIALS TO MAKE A COMPLETE INSTALLATION OF ELECTRICAL WORK, AS SHOWN ON DRAWINGS, AS SPECIFIED, AND AS NECESSARY FOR COMPLETE SYSTEMS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

- MAIN POWER BRANCH/FEEDERS AS REQUIRED.
- BRANCH FEEDER FOR POWER AND LIGHTING.
- ALL ELECTRICAL CONDUCTORS AND CONDUIT.
- ALL WIRING DEVICES, SAFETY SWITCHES.
- ALL LIGHTING FIXTURES AND LAMPS.
- ALL COMMUNICATION EMPTY CONDUIT SYSTEMS.
- LIGHTNING SURGE PROTECTION DEVICE.
- ANTENNA AND EQUIPMENT GROUNDING.

2.2. ALL INSTALLATIONS TO MAINTAIN REQUIRED CLEARANCES.

2.3. CONTRACTOR TO SIZE CONDUCTORS PER NEC AND CARRIER REQUIREMENTS AND UPSIZE AS REQUIRED TO MINIMIZE VOLTAGE DROP.

2.4. CONTRACTOR TO SIZE CONDUIT PER NEC.

3. REQUIREMENTS:

- 3.1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES.
- 3.2. ALL WORK SHALL BE COMPLETED BY A CERTIFIED MASTER ELECTRICIAN.
- 3.3. ALL WORK SHALL CONFORM TO THE LATEST VERSION OF MOTOROLA R56 STANDARDS.
- 3.4. AFTER INSTALLATION TEST ALL CONDUCTORS FOR SHORTS AND GROUNDS BEFORE ENERGIZING.

4. GUARANTEE:

4.1. THE CONTRACTOR SHALL FURNISH A WRITTEN CERTIFICATE, GUARANTEEING ALL MATERIALS, EQUIPMENT AND LABOR FURNISHED BY CONTRACTOR TO BE FREE OF ALL DEFECTS FOR A PERIOD OF ONE YEAR FROM AND AFTER THE DATE OF FINAL ACCEPTANCE OF ELECTRICAL WORK. THE CONTRACTOR SHALL FURTHER GUARANTEE THAT IF ANY DEFECTS APPEAR WITHIN THE STIPULATED GUARANTEED PERIOD, SUCH WORK SHALL BE REPLACED WITHOUT COST TO THE OWNER.

5. FEEDERS, SWITCHES AND METERING EQUIPMENT:

- 5.1. MAKE ARRANGEMENTS WITH OWNERS AS NEEDED TO BRING IN BRANCH FEEDERS FOR ELECTRICAL SERVICE AS SHOWN ON DRAWINGS. PAY ALL CHARGES INVOLVED THEREWITH. FURNISH, INSTALL FEEDER WIRE TO OWNER DISTRIBUTION PANEL. PROVIDE METER AS SHOWN ON DRAWINGS.

6. PANELBOARD CONSTRUCTION:

6.1. PANELBOARDS SHALL CONSIST OF A CAN, FRONT, INTERIOR AND CIRCUIT PROTECTIVE DEVICES AND SHALL BE MANUFACTURED IN ACCORDANCE WITH UNDERWRITER'S LABORATORIES. THE GAUGE OF METAL USED AND THE GUTTER SPACE SHALL BE IN ACCORDANCE WITH APPLICABLE UL STANDARDS. EACH PANEL SHALL HAVE A DOOR MOUNTED ON A SEMI-CONCEALED HINGES WITH A CYLINDER LOCK, INDEX CARD HOLDER PROPERLY FILLED IN AS TO CIRCUIT; ALL PANELS WITH MASTER KEY. ALL PANELS SHALL BE FINISHED WITH BAKED-ON GRAY ENAMEL, OVER RUST INHIBITOR COAT. PANEL BOARDS SHALL BE AS MANUFACTURED BY G.E., ITE, SQUARE "D" OR CUTLER HAMMER.

7. WIRING:

- 7.1. CONDUCTORS SHALL BE TYPE "THHN/THWN" OR "XHHW-2" INSULATION.
- 7.2. INSTALL CONDUCTORS IN CLEAN, DRY CONDUITS. USE UL APPROVED PULLING LUBRICANT WHERE REQUIRED.
- 7.3. USE #12 AS MINIMUM CONDUCTOR SIZE FOR POWER SYSTEMS. ALL CONTROL WIRES SHALL BE STRANDED AND TERMINATED WITH CRIMPED-ON LUGS.
- 7.4. MAKE CONNECTION, SPLICES AND TAPS ONLY IN APPROVED BOXES AND FITTINGS. FOR SMALL BRANCH CIRCUIT CONDUCTORS, FIRST TWIST CONDUCTORS TOGETHER, THEN INSTALL A "SCOTCHLOK" OR EQUAL SPRING CONNECTOR OF PROPER SIZE. FOR LARGE CONDUCTORS USE SPLIT-BOLT OR HYDRAULICALLY COMPRESSED CONNECTIONS, THEN APPLY ENOUGH LAYERS OF VINYL ELECTRICAL TAPE TO EQUAL THE INSULATION VALUE OF THE CONDUCTOR INSULATION.
- 7.5. WHERE FACTORY COLOR CODED CONDUCTORS ARE NOT AVAILABLE, INSTALL BANDS OF COLORED VINYL PLASTIC TAPE AT EACH END OF EACH CONDUCTOR.

8. CONDUIT:

- 8.1. PROVIDE A COMPLETE ASSEMBLY OF CONDUIT, TUBING OR DUCT WITH FITTINGS, INCLUDING, BUT NOT LIMITED TO, CONNECTORS, NIPPLES, COUPLINGS, LOCKNUTS, BUSHINGS, EXPANSION FITTINGS, OTHER COMPONENTS AND ACCESSORIES AS NEEDED. CONNECTIONS AND COUPLING MUST BE COMPRESSION TYPE TO MEET R56 FOR BONDING REQUIREMENTS.
- 8.2. FITTINGS SHALL BE DESIGNED AND APPROVED FOR THE SPECIFIC USE INTENDED. PROVIDE INSULATED THROATS OR BUSHINGS FOR ALL CONDUITS. GROUNDING BUSHINGS SHALL ALSO HAVE INSULATED THROATS.

8.3. MINIMUM CONDUIT SIZE IN ALL CASES SHALL BE 1/2" UNLESS MINIMUM SIZE IS SPECIFIED TO BE LARGER FOR SPECIFIC SYSTEMS SPECIFIED ELSEWHERE IN THE SPECIFICATIONS OR ON THE DRAWINGS.

8.4. RIGID STEEL CONDUIT SHALL BE HEAVY-WALL STEEL TUBE WITH METALLIC CORROSION-RESISTANT COATING ON INTERIOR AND EXTERIOR, HOT-DIPPED GALVANIZED, FREE FROM DEFECTS, MANUFACTURED IN ACCORDANCE TO ANSI STANDARDS, AND UL-LISTED. USE THREADED COUPLINGS. USE RIGID GALVANIZED STEEL CONDUIT IN ALL LOCATIONS UNLESS NOTED OTHERWISE.

8.5. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC (UNLESS NOTED OTHERWISE).

8.6. AS A MINIMUM, CONDUIT SIZES SHALL BE IN ACCORDANCE WITH NEC CONDUIT FILL REQUIREMENTS, REGARDLESS OF SIZE SCHEDULE OR INDICATED. IF LARGER SIZE IS SCHEDULED OR INDICATED, THE LARGER SIZE SHALL BE USED.

9. CONDUIT INSTALLATION:

- 9.1. ANCHOR CONDUIT WITH HANGERS, CONDUIT STRAPS OR OTHER DEVICES SPECIFICALLY DESIGNED FOR THE PURPOSE. WIRE TIES SHALL NOT BE PERMITTED. USE TRAPEZE HANGERS FOR MULTIPLE PARALLEL CONDUIT RUNS.
- 9.2. ALL CONCRETE INSERTS SHALL BE GALVANIZED OR CADMIUM PLATED; INDIVIDUAL HANGERS, TRAPEZE HANGERS AND RODS SHALL BE PRIME COATED.
- 9.3. INSTALL HORIZONTAL RUNS OF CONDUIT TO PROVIDE A NATURAL DRAIN TO PREVENT MOISTURE COLLECTING IN THE POCKETS OR TRAPS.
- 9.4. CAP CONDUIT ENDS UNTIL CONDUCTOR IS INSTALLED TO PREVENT FOREIGN OBJECTS FROM ENTERING CONDUIT.
- 9.5. FITTINGS AND CONDUITS SHALL BE APPROVED FOR GROUNDING PURPOSES OR SHALL BE JUMPERED WITH A COPPER GROUNDING CONDUCTOR OF PROPER AMPACITY. LEAVE TERMINATION OF SUCH JUMPERS EXPOSED.
- 9.6. INSTALL (2) 200 POUND NYLON PULL CORDS IN ROUGH-IN RACEWAYS.
- 9.7. INSTALL OFFSETS, PULL BOXES AND ELBOWS AS REQUIRED TO ACCOMPLISH A HARMONIOUS ROUTING OF THE SYSTEMS.
- 9.8. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED CONSTRUCTION SHALL BE FIRE-STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANT RATING.

10. JUNCTION AND PULL BOXES:

- 10.1. USE GALVANIZED PULL AND JUNCTION BOXES THAT COMPLY WITH NEC AS TO SIZE AND CONSTRUCTION.
- 10.2. FOR JUNCTION AND PULL BOXES, USE BOXES NOT LESS THAN 4" SQUARE AND 1 1/2" DEEP WITH REMOVABLE COVERS.
- 10.3. IN WET AREAS OR OUTDOORS, USE CAST ALUMINUM OR CAST IRON BOXES WITH THREADED HUBS AND GASKET COVERS.
- 10.4. INSTALL JUNCTION AND PULL BOXES IN ACCESSIBLE LOCATIONS. POSITION BOXES SO COVERS CAN BE REMOVED.
- 10.5. INSTALL BOXES ON CONCEALED CONDUITS WITH COVERS FLUSH WITH FINISH.

GROUNDING

1. GENERAL:

- 1.1. GROUNDING SHALL BE INSTALLED PER MOTOROLA R56 STANDARDS AND GUIDELINES FOR COMMUNICATIONS SITES.
- 1.2. CONTRACTOR TO BOND METALLIC ITEMS TO GROUNDING SYSTEM WITHIN SITE PER CARRIER REQUIREMENTS.

2. CONNECTIONS:

- 2.1. ALL EXTERNAL GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC PROCESS, BY IRREVERSIBLE HIGH COMPRESSION, AND/OR BY 2-HOLE LONG BARREL LUGS. NO SINGLE-HOLE, CRIMP-ON, OR SOLDER CONNECTIONS SHALL BE USED. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE SPLICE. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
- 2.2. ALL INTERIOR GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE-TYPE (COMPRESSION) CONNECTIONS. MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED.

3. GROUND RODS:

- 3.1. ALL GROUND RODS SHALL BE COPPER-CLAD STEEL 5/8" DIAMETER X 10'-0" LONG AND OF THE NUMBER AND AT LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICALLY IN UNDISTURBED EARTH.
- 3.2. GROUND RODS SHALL BE LOCATED SO AS TO AVOID THE TOWER FOUNDATION.
- 3.3. IF ROCK IS ENCOUNTERED, GROUND RODS MAY BE DRIVEN AT AN OBLIQUE ANGLE OF NOT GREATER THAN 45 DEGREES FROM VERTICAL OR MAY BE BURIED HORIZONTALLY AND PERPENDICULAR TO THE BUILDING, IN A TRENCH AT LEAST 36" DEEP.
- 3.4. GROUND RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 30 INCHES BELOW FINISHED GRADE, WHERE POSSIBLE, OR BURIED BELOW THE FREEZE LINE, WHICHEVER DEPTH IS GREATER.
- 3.5. GROUND RODS SHALL NOT BE INSTALLED MORE THAN 20 FEET APART (OR TWICE THE LENGTH OF THE ROD) AND NOT LESS THAN 6 FEET (PER NFPA 70, ARTICLE 250-56).

4. GROUND BARS:

- 4.1. ALL GROUND BARS SHALL BE 1/4" THICK BARE COPPER PLATES (U.N.O.) AND OF SUFFICIENT SIZE TO GROUND ATTACHMENTS INDICATED IN THE DRAWINGS (MIN. 2"x12"). HOLES SHALL BE 7/16" DIAMETER ON 3/4" CENTERS TO PERMIT THE CONVENIENT USE OF TWO-HOLE LUGS.
- 4.2. THE METHOD OF ATTACHMENT OF THE GROUNDING ELECTRODE CONDUCTOR TO GROUND BARS SHALL BE EXOTHERMIC OR IRREVERSIBLE HIGH COMPRESSION.

5. CABLES:

- 5.1. ALL EXTERIOR GROUNDING CABLES SHALL BE #2 STRANDED GREEN JACKETED COPPER WIRE UNLESS INDICATED OTHERWISE ON DRAWINGS.
- 5.2. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. ALL BENDS SHALL BE MADE WITH THE GREATEST PRACTICAL RADIUS AND SHALL NOT BE LESS THAN 8".
- 5.3. ALL CONDUITS SHALL BE MECHANICALLY SUPPORTED.
- 5.4. ALL METALLIC CONDUIT SHALL USE GROUND-BUSHING CONNECTIONS.
- 5.5. ALL CONDUITS USED AS RACEWAYS FOR GROUNDING CONDUCTORS SHALL BE BONDED AT BOTH ENDS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
- 5.6. PROVIDE WIRE PROTECTION PIPES AT ALL GROUND WIRES AT GRADE LEVEL PER GROUND WIRE PROTECTION DETAIL.

6. DISSIMILAR MATERIALS:

- 6.1. BONDING OF TWO DISSIMILAR METALS MAY RESULT IN GALVANIC CORROSION, A REACTION THAT OCCURS AT THE JUNCTION OF DISSIMILAR METALS WHEN THEY ARE EXPOSED TO MOISTURE. THE DEGREE AND RATE OF CORROSION DEPENDS ON THE RELATIVE POSITION OF THE METALS IN THE ELECTROCHEMICAL SERIES. TO DETERMINE THE LIKELIHOOD OF TWO METALS REACTING REFERENCE SECTION 6.5.2 IN THE R56 SPECIFICATIONS.
- 6.2. THE SAME METAL SHALL BE USED THROUGHOUT THE SYSTEM WHEN POSSIBLE.
- 6.3. EXOTHERMICALLY WELD CONNECTIONS OF DIFFERENT METALS WHEN WELD MATERIAL IS AVAILABLE FOR THE METALS BEING BONDED.
- 6.4. COPPER CONDUCTORS SHALL NOT BE INSTALLED ON ALUMINUM ROOFING OR SIDING.
- 6.5. ALUMINUM AND COPPER SHALL NOT BE DIRECTLY CONNECTED TO EACH OTHER UNLESS USING EXOTHERMIC WELDING MATERIALS SPECIFICALLY INTENDED FOR THESE TWO METALS TO MAKE THE CONNECTION. ALUMINUM AND COPPER MAY BE JOINED WITH THE USE OF A LISTED BIMETALLIC TRANSITION CONNECTOR OF STAINLESS STEEL. THESE CONNECTORS SHALL BE LISTED FOR THE SIZE AND NUMBER OF CONDUCTORS AND MARKED WITH AL/CU. THESE CONNECTIONS SHALL BE LIBERALLY COATED WITH A CONDUCTIVE ANTI-OXIDANT AT THE POINT OF INSERTION INTO THE CONNECTOR.
- 6.6. COPPER SHALL NOT COME IN CONTACT WITH GALVANIZED STEEL.
- 6.7. TINNED COPPER SHALL BE USED WHEN CONNECTING TO A GALVANIZED STEEL STRUCTURE.

7. ANTI-OXIDANT:

- 7.1. ANTI-OXIDANT COMPOUND SHALL BE USED BETWEEN ALL EXTERNAL MECHANICAL CONNECTIONS. CARE SHALL BE TAKEN TO USE THE APPROPRIATE ANTI-OXIDANT TYPE. ZINC ANTI-OXIDANT (GRAY COLOR) SHALL BE USED WHEN CONNECTING TO GALVANIZED AND ALUMINUM OBJECTS AND COPPER ANTI-OXIDANT (COPPER COLOR) SHALL BE USED WHEN CONNECTING TO COPPER OBJECTS.

8. TEST PROCEDURE:

- 8.1. THE GROUND SYSTEM RESISTANCE SHALL NOT EXCEED 10 OHMS. A DESIGN GOAL OF 5 OHMS IS RECOMMENDED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARD RESISTANCE TESTING.
- 8.2. GROUND TEST MUST BE PERFORMED PRIOR TO UTILITY CONNECTION AND GROUND CONNECTION TO ANY EXISTING SITE COMMON GROUNDING ELECTRODE SYSTEM.

9. GROUNDING RING:

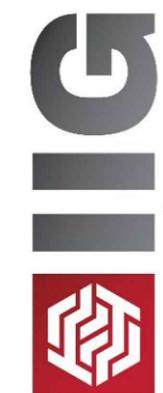
- 9.1. THE GROUND RING ENCIRCLING THE BUILDING SHALL BE A MINIMUM SIZE OF NO. 2 AWG SOLID TINNED COPPER CONDUCTOR IN DIRECT CONTACT WITH THE EARTH AT A MINIMUM DEPTH OF 36 INCHES. CONDUCTOR BENDS SHALL HAVE A MINIMUM RADIUS OF 8 INCHES.
- 9.2. ALL EXTERNAL GROUND RINGS ARE TO BE JOINED TOGETHER AND ALL CONNECTIONS SHALL BE EXOTHERMIC OR IRREVERSIBLE HIGH COMPRESSION. NO LUGS OR CLAMPS WILL BE ACCEPTED.

10. FENCE / GATE:

- 10.1. GROUND ALL SECTIONS OF FENCE AND GATE AS INDICATED ON DRAWINGS. GROUND EACH GATE POST AND CORNER POST. ALL CONNECTIONS FOR THE FENCE GROUND SYSTEM SHALL BE EXOTHERMIC WELD AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.

ONTIVITY
LOCAL CONNECTIONS | NATIONAL SOLUTIONS

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE
09/29/2025



533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:
NO DESC DATE:
0 CD's 9/29/2025

ELECTRICAL &
GROUNDING NOTES

E.O.O.

SCALE SET FOR 24"X36" SHEET
USE 1/2 SCALE FOR 11"X17" SHEET

NOTES:

1. GENERATOR

1.1. CLEARANCES

1.1.1. LOCATION OF EXTERIOR TANKS (IFC 5704.2.9.6.1. & NFPA TABLE 22.4.1.1A) GENERATOR TANKS WITH A CAPACITY LESS THAN 275 GALLONS MUST BE A MINIMUM OF 5' FROM A PROPERTY LINE, ROW OR STRUCTURE WITH COMBUSTIBLE WALLS. TANKS WITH A CAPACITY OF 276-750 MUST BE 10' FROM PROPERTY LINE.

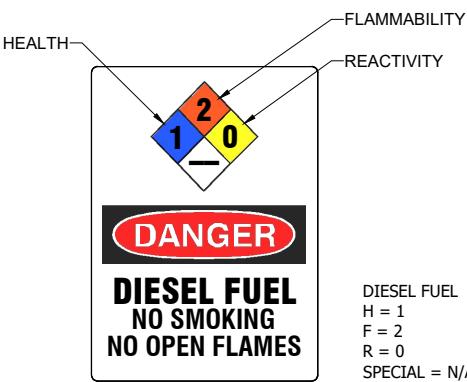
1.2. SIGNAGE

1.2.1. NO SMOKING OR OPEN FLAMES (IFC 5704.2.3.1) THE FOLLOWING SIGNS MADE OF DURABLE MATERIAL ARE REQUIRED ON THE GENERATOR ROOM DOOR. (SEE BELOW)

1.2.2. NFPA HAZMAT PLACARD (IFC 5003.5 & NFPA 704) VISIBLE HAZARD IDENTIFICATION SIGNS AS SPECIFIED BY NFPA 704 SHALL BE PLACED ON GENERATOR ROOM DOOR REFLECTING HIGHEST HAZARD WITHIN THE COMPOUND (SEE BELOW).

1.2.3. FILLING INSTRUCTIONS (IFC 5704.2.9.7.6.1) A PERMANENT SIGN SHALL BE PROVIDED AT THE FILL POINT FOR THE TANK, DOCUMENTING THE FILLING PROCEDURE AND TANK CALIBRATION CHART.

1.2.4. EMERGENCY SHUT DOWN PROCEDURES (NFPA 37.10.2.1) PROVIDE CLEAR EMERGENCY SHUTDOWN PROCEDURES, FOR SAFELY DISABLING THE GENERATOR



1.3. TANK VENTILATION (IFC 5704.2.9.7.2 & IFC 5704.2.7.3. & NFPA 30) STORAGE TANKS MUST BE EQUIPPED WITH NORMAL AND EMERGENCY VENTING. NORMAL TANK VENT PIPES MUST EXIT STRUCTURE & SHALL BE NO SHORTER THAN 12 FEET ABOVE FINISHED GROUND. VAPORS SHALL BE DISCHARGED AWAY FROM EAVES OR OBSTRUCTIONS. EMERGENCY VENT PIPES MUST EXIT STRUCTURE & SHALL COMPLY WITH NFPA 30/22.7. & IMC 1305.7.

1.4. HAZARDOUS MATERIALS INVENTORY STATEMENT (IFC APPENDIX H) ALL HAZARDOUS CHEMICALS MUST BE REPORTED TO LOCAL COUNTY FIRE DEPARTMENT PRIOR TO INSPECTION.

1.5. INSPECTIONS: CONTRACTOR SHALL VERIFY WITH LOCAL FIRE DEPARTMENT INSPECTION REQUIREMENTS INCLUDING:

1.5.1. INSPECTION TEAM WITNESS FILLING OF THE DIESEL TANK.
1.5.2. INSPECTION TEAM WITNESS DEMONSTRATION OF FLOAT SWITCH SET POINTS OF 90% & 40%

1.6. DIESEL SUB BASE TANK CONSTRUCTION (U.L. 142)

1.6.1. FUEL CONTAINMENT BASIN: SUB BASE TANK SHALL INCLUDE WELDED STEEL CONTAINMENT BASIN SIZED AT A MINIMUM OF 125% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL IN THE EVENT OF A TANK RUPTURE

1.6.2. LEAK DETECTION SYSTEM: A FUEL CONTAINMENT BASIN LEAK DETECTOR SHALL BE SUPPLIED AND WIRED FOR ALARM CONDITION VISIBLE FROM GENERATOR CONTROL PANEL.

1.6.3. SUB BASE TANK VENTING: NORMAL EMERGENCY VENTING SHALL BE SIZED PER U.L. 142 SPECIFICATION FOR WETTED SURFACE AREA OF TANK.

1.6.4. ENGINE ENVIRONMENTAL SPILL PROTECTION: TOP OF FUEL TANK BASE SHALL INCLUDE SPILL CONTAINMENT TO CATCH ANY EXCESS SPILL OR LEAKS FROM ENGINE AND COOLING SYSTEM. THIS SHALL BE SIZED FOR 125% OF ENGINE FLUIDS AND FUEL SPILL CONTAINMENT.

1.7. REMOTE MANUAL STOP (NFPA 110 5.6.5.6 & 5.6.5.6.1)

1.7.1. ALL INSTALLATIONS SHALL BE PROVIDED WITH AT LEAST ONE REMOTE EMERGENCY STOP SWITCH FOR EACH PRIME MOVER.

1.7.2. THE REMOTE EMERGENCY STOP SWITCH SHALL BE LOCATED OUTSIDE THE ROOM HOUSING THE PRIME MOVER OR EXTERIOR ENCLOSURE A MINIMUM OF 20' FROM THE FUEL SOURCE AND SHALL BE PERMITTED TO BE MOUNTED ON THE EXTERIOR OF THE ENCLOSURE.

1.8. VEHICLE PROTECTION

1.8.1. IMPACT PROTECTION IS REQUIRED FOR EXTERIOR GENERATORS WHERE SUBJECT TO VEHICLE IMPACTS WHERE 4" CONCRETE FILLED BOLLARDS ARE USED, THEY SHALL BE SET AT A MINIMUM OF 3 FEET FROM THE GENERATOR. (DFC 312)

1.9. EMERGENCY GENERATOR STATUS PANEL CONTRACTOR IS TO COORDINATE WITH LOCAL FIRE DEPARTMENT WITH GETTING FIELD APPROVAL OF FINAL LOCATION PRIOR TO INSTALLATION. ALL GENERATORS SHALL BE PROVIDED WITH A REMOTE STATUS PANEL THAT SHOWS THE FOLLOWING:

1.9.1. OPERATING STATUS (ON-OFF) AND MALFUNCTION INDICATION PANEL AS REQUIRED BY NFPA 110
1.9.2. INDICATION OF TRANSFER SWITCH POSITION (NORMAL-EMERGENCY)
1.9.3. INDICATION THAT GENERATOR IS IN AUTOMATIC MODE
1.9.4. MAIN FUEL OIL STORAGE TANK LOW FUEL LEVEL ALARM. THE LOW FUEL SENSING SWITCH SHALL INDICATE WHEN LESS THAN THE MINIMUM FUEL NECESSARY FOR FULL LOAD RUNNING AS PER NFPA 110 SECTION 5.5.2 OR A MINIMUM OF 75% OF THE TANK SIZE

1.10. LOAD DURATION CALCULATIONS

1.10.1. FUEL TANK SIZE (357.9 GALLONS)
1.10.2. FUEL FILL ALARM @ 90% = 322.11 GALLONS
1.10.3. FUEL CONSUMPTION = 10 GAL/HR @ 100% LOAD W/ FAN PER MANUFACTURE CUT SHEET
1.10.4. (10 GAL/HR X 2HRS X 133% = 26.6 GALLONS) TANK PROVIDED 357.9 GALLON / 10 GPH = 35.79 HR RUNTIME

1.11. FUEL OIL PIPING AND STORAGE

THE GENERATOR TANK MAXIMUM STATIC HEAD PRESSURE AT 5'-0" FUEL FILL IS 2.2 PSI. THE GENERATOR TANK MAXIMUM STATIC HEAD PRESSURE CALCULATION AT 12'-0" VENT PIPE IS 5.2 PSI. (2.31 FT OF HEAD EQUALS 1 PSI (POUND PER SQUARE INCH) OF PRESSURE).
5'-0" HEAD AT FUEL FILL (5/2.31 2.2PSI)
12'-0" HEAD AT VENT PIPE (12/2.31 = 5.2PSI)

THE CURRENT DESIGN DOES NOT EXCEED THE MAXIMUM 10PSI PER IMC. 1305.7

1.12. LOCATION OF EXHAUST OUTLETS

THE TERMINATION POINT OF EXHAUST OUTLETS AND DUCTS DISCHARGING TO THE OUTDOORS SHALL BE LOCATED WITH THE FOLLOWING MINIMUM DISTANCES:

1.12.1. FOR DUCTS CONVEYING EXPLOSIVE OR FLAMMABLE VAPORS, FUMES OR DUSTS: 30 FEET (914 MM) FROM PROPERTY LINES; 10 FEET (3048 MM) FROM OPERABLE OPENINGS INTO BUILDINGS; 6 FEET (1829 MM) FROM EXTERIOR WALLS AND ROOFS; 30 FEET (9144 MM) FROM COMBUSTIBLE WALLS AND OPERABLE OPENINGS INTO BUILDINGS WHICH ARE IN THE DIRECTION OF EXHAUST DISCHARGE; 10 FEET (3048 MM) ABOVE ADJOINING GRADE.

1.12.2. FOR OTHER PRODUCT-CONVEYING OUTLETS: 10 FEET (3048 MM) FROM THE PROPERTY LINES; 3 FEET (914 MM) FROM EXTERIOR WALLS AND ROOFS; 10 FEET (3048 MM) FROM OPERABLE OPENINGS INTO BUILDINGS; 10 FEET (3048 MM) ABOVE ADJOINING GRADE.

1.12.3. FOR ALL ENVIRONMENTAL AIR EXHAUST: 3 FEET (914 MM) FROM PROPERTY LINES; 3 FEET (914 MM) FROM OPERABLE OPENINGS INTO BUILDINGS FOR ALL OCCUPANCIES OTHER THAN GROUP U, AND 10 FEET (3048 MM) FROM MECHANICAL AIR INTAKES. SUCH EXHAUST SHALL NOT BE CONSIDERED HAZARDOUS OR NOXIOUS.

1.12.4. EXHAUST OUTLETS SERVING STRUCTURES IN FLOOD HAZARD AREAS SHALL BE INSTALLED AT OR ABOVE THE ELEVATION REQUIRED BY SECTION 1612 OF THE INTERNATIONAL BUILDING CODE FOR UTILITIES AND ATTENDANT EQUIPMENT.

1.13. PERMIT & INSPECTION NOTES

1.13.1. CONTRACTOR SHALL PROVIDE ANY INSPECTIONS REQUIRED BY LOCAL JURISDICTION PRIOR TO FUELING THE GENERATOR.

1.13.2. LEGALLY REQUIRED EMERGENCY OR STANDBY GENERATORS SHALL BE ACCEPTANCE TESTED IN ACCORDANCE WITH NFPA 110. DOCUMENTATION SHALL BE PROVIDED BY CONTRACTOR TO THE LOCAL JURISDICTION OUTLINING THE NFPA 110 ACCEPTANCE TEST CONDUCTED AND RESULTS SHOWING CONFORMITY WITH NFPA 110 ACCEPTANCE TESTING REQUIREMENTS.

1.13.3. CONTRACTOR SHALL INQUIRE WITH LOCAL JURISDICTION FOR ANY ADDITIONAL ANNUAL PERMITS RELATING TO GENERATORS OR COMBUSTIBLE STORAGE.

ONTIVITY
LOCAL CONNECTIONS | NATIONAL SOLUTIONS

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE
STATE OF IDAHO

IICG
Intermountain Infrastructure Group


533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:

NO	DESC	DATE:
0	CDs	9/29/2025

GENERATOR NOTES

EO. 1

NOTES:

1. ALL NEW UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC.
2. EXISTING BURIED UTILITY LINES WERE NOT VERIFIED BY MEANS OF GPR / UTILITY LOCATES, AND ARE SHOWN AS ASSUMED ROUTES. CONTRACTOR TO OBTAIN UTILITY LOCATES / CALL 811 PRIOR TO DIGGING.
3. FOR CONDUITS ROUTED BENEATH FUTURE SHELTERS, TRENCH TO ENSURE A MINIMUM COVER OF 5'-0" FROM FINISHED GRADE TO THE TOP OF CONDUIT.

SITE NAME:
BLANCHARD

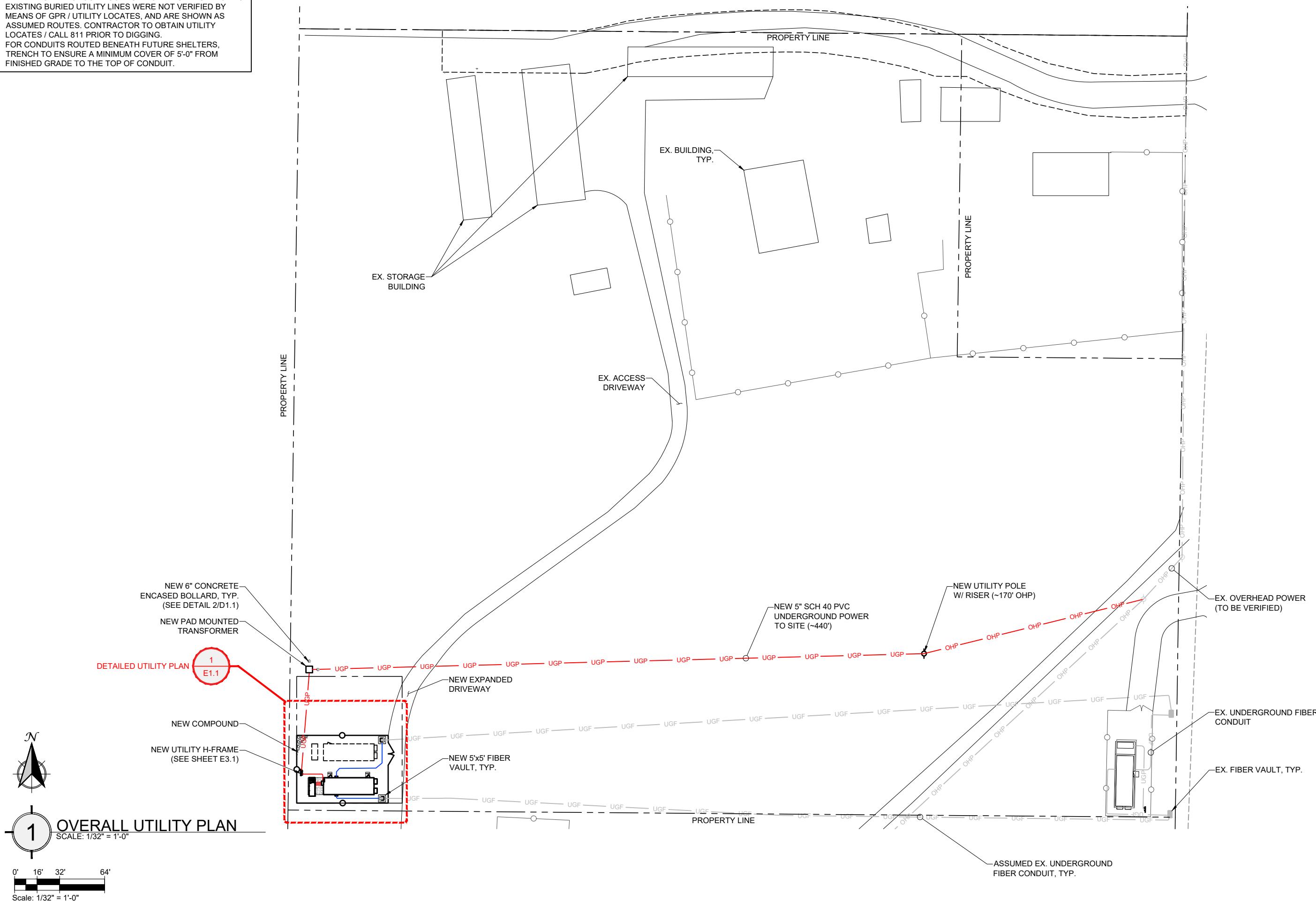
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

OVERALL UTILITY PLAN

E 1.0



NOTES:

1. ALL NEW UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC.
2. EXISTING BURIED UTILITY LINES WERE NOT VERIFIED BY MEANS OF GPR / UTILITY LOCATES, AND ARE SHOWN AS ASSUMED ROUTES. CONTRACTOR TO OBTAIN UTILITY LOCATES / CALL 811 PRIOR TO DIGGING.
3. FOR CONDUITS ROUTED BENEATH FUTURE SHELTERS, TRENCH TO ENSURE A MINIMUM COVER OF 5'-0" FROM FINISHED GRADE TO THE TOP OF CONDUIT.

SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

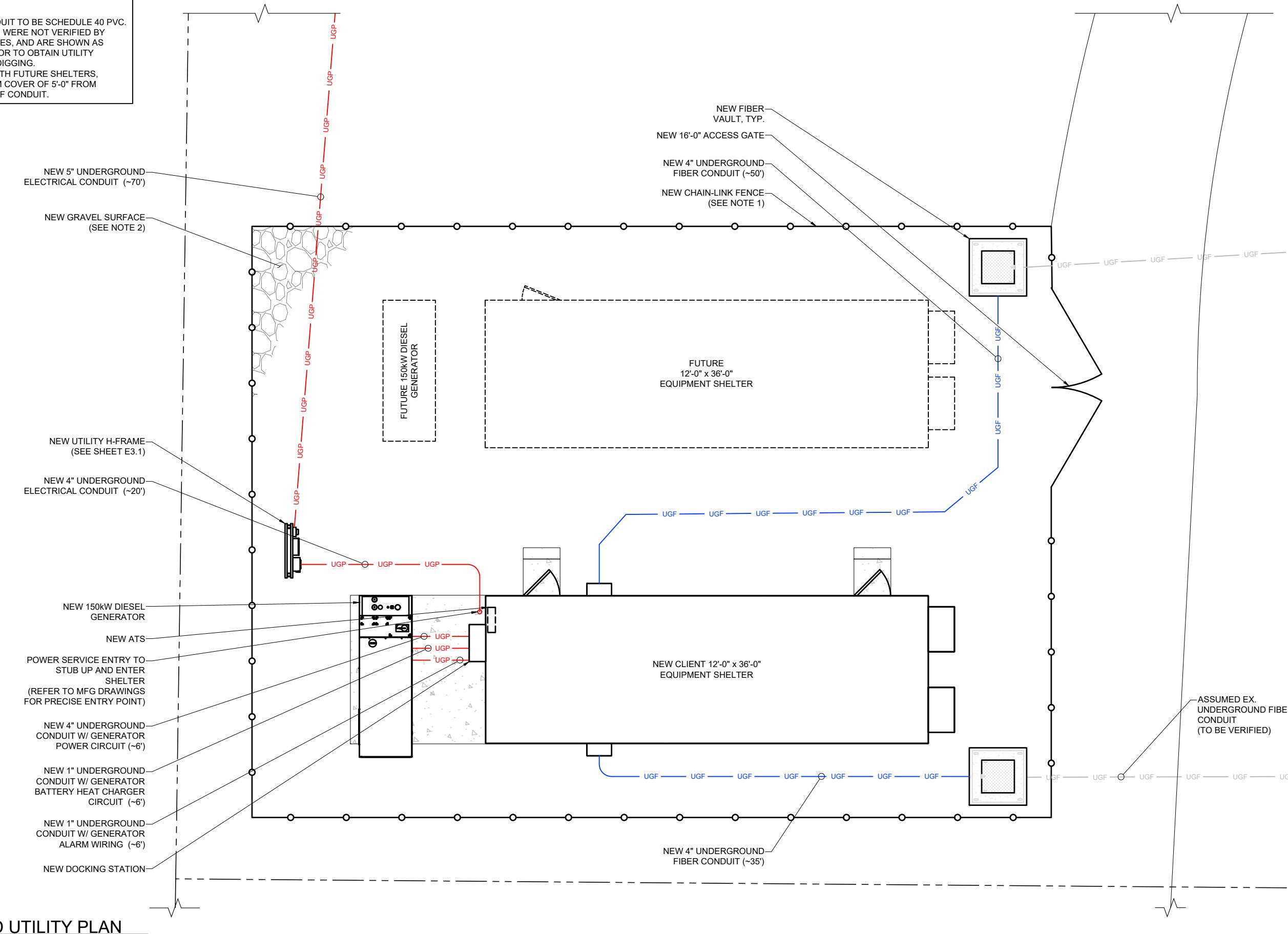
DETAILED UTILITY PLAN

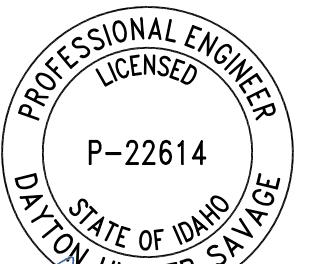
E 1 . 1



1 DETAILED UTILITY PLAN

0' 2' 4' 8'
Scale: 1/4" = 1'-0"





Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

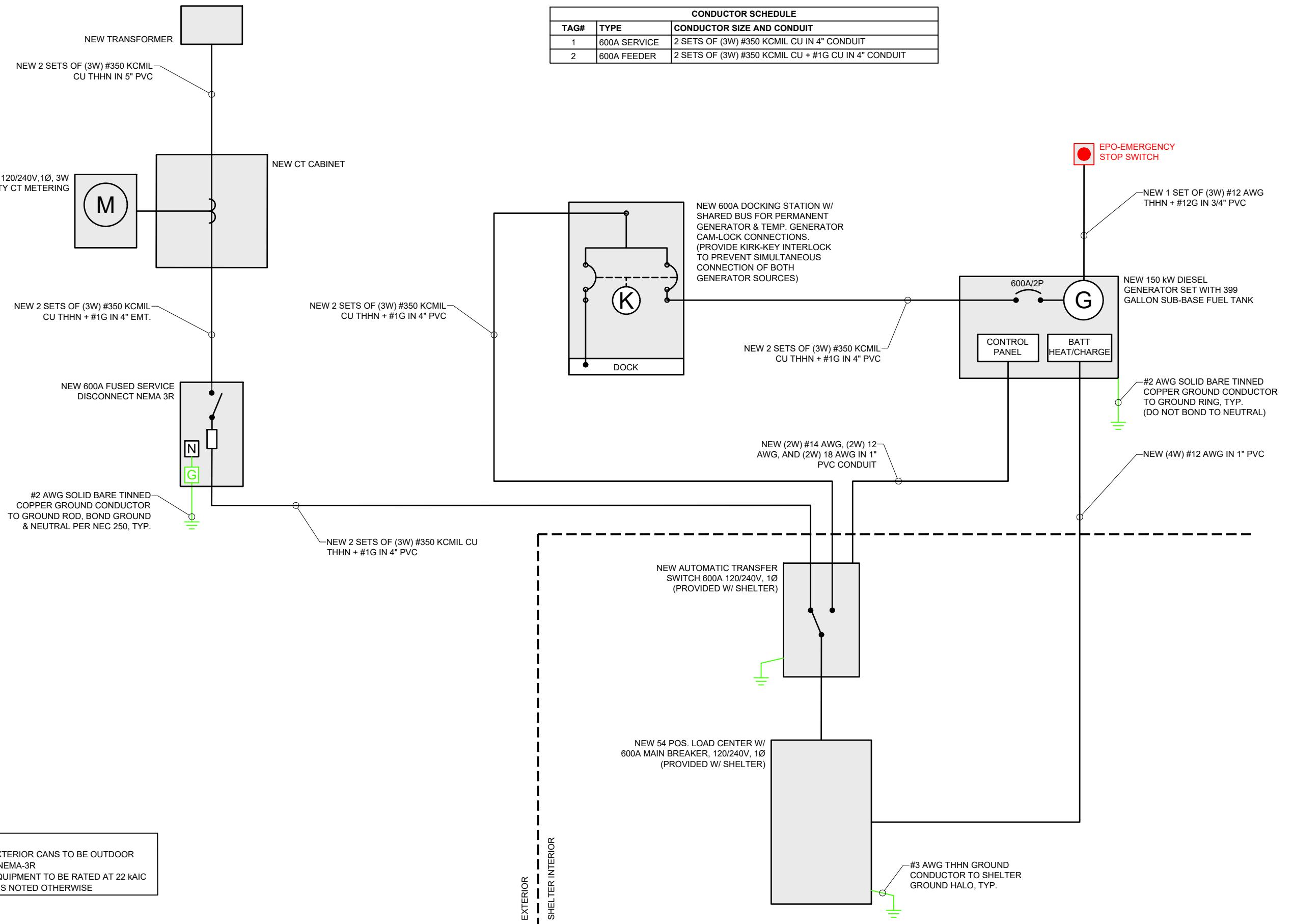
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

ELECTRICAL
ONE-LINE DIAGRAM

E2.1





09/29/2025



Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010

SITE NAME:
BLANCHARD

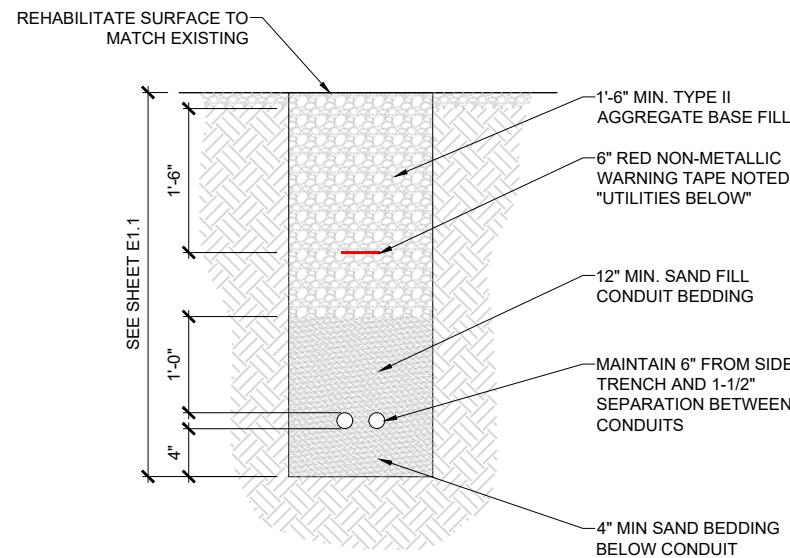
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:		
NO	DESC	DATE:
0	CDs	9/29/2025

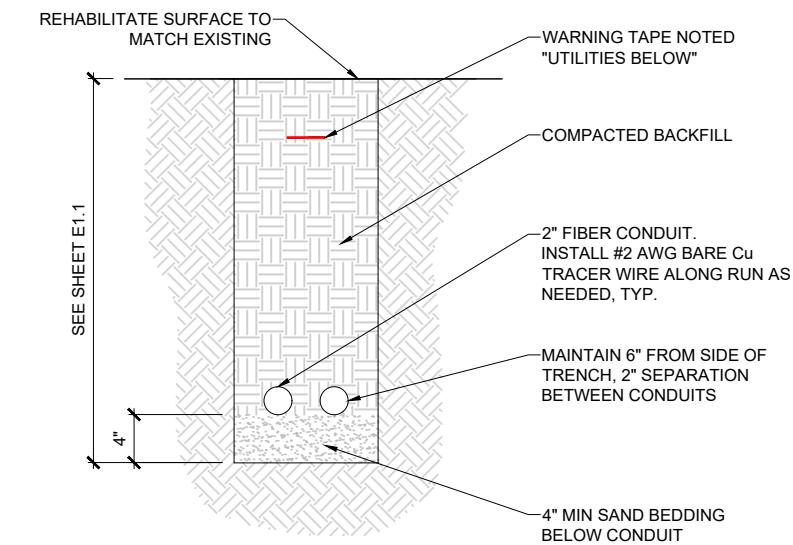
ELECTRICAL
DETAILS

E3.2



ELECTRIC TRENCH NOTES:

1. COMPACT TYPE II TO 95% STANDARD PROCTOR @ 2% MOISTURE.
2. COMPACT SAND TO 90% STANDARD PROCTOR @ 2% MOISTURE.
3. COORDINATE TRENCH INSPECTIONS WITH UTILITY REPRESENTATIVES AND JURISDICTIONAL INSPECTORS.
4. VERIFY JOINT TRENCH USE RESTRICTIONS AND REQUIREMENTS PRIOR TO PLACING UTILITY. MAINTAIN 12" RADIAL SEPARATION FROM WATER AND TELECOM.
5. VERIFY MOST RECENT STANDARDS AND SPECIFICATIONS WITH UTILITY PROVIDER.
6. FOR CONDUITS ROUTED BENEATH FUTURE SHELTERS, TRENCH TO ENSURE A MINIMUM COVER OF 5'-0" FROM FINISHED GRADE TO THE TOP OF CONDUIT.



TRENCH NOTES:

1. COMPACT TYPE II TO 95% STANDARD PROCTOR @ 2% MOISTURE.
2. COMPACT SAND TO 90% STANDARD PROCTOR @ 2% MOISTURE.
3. COORDINATE TRENCH INSPECTIONS WITH UTILITY REPRESENTATIVES AND JURISDICTIONAL INSPECTORS.
4. VERIFY JOINT TRENCH USE RESTRICTIONS AND REQUIREMENTS PRIOR TO PLACING UTILITY. MAINTAIN 12" RADIAL SEPARATION FROM WATER AND TELECOM.
5. VERIFY MOST RECENT STANDARDS AND SPECIFICATIONS WITH UTILITY PROVIDER.
6. FOR CONDUITS ROUTED BENEATH FUTURE SHELTERS, TRENCH TO ENSURE A MINIMUM COVER OF 5'-0" FROM FINISHED GRADE TO THE TOP OF CONDUIT.

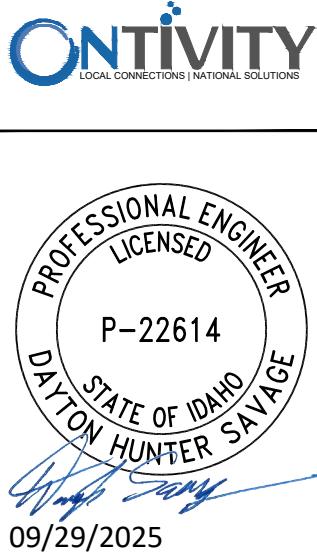
1 ELECTRICAL SERVICE TRENCH
SCALE: N.T.S.

2 FIBER SERVICE TRENCH
SCALE: N.T.S.

NOTES:

1. GROUND RODS SHALL BE COPPER-CLAD STEEL, MINIMUM 5/8" DIAMETER BY 10'-0" LENGTH, INSTALLED VERTICALLY UNLESS SITE-SPECIFIC CONSTRAINTS DICTATE OTHERWISE.
2. GROUND RODS SHALL BE SPACED NO MORE THAN 20 FEET APART, AND SHALL BE BONDED TO THE GROUND RING USING EXOTHERMIC WELDS OR LISTED IRREVERSIBLE COMPRESSION CONNECTORS.
3. THE PERIMETER GROUND RING SHALL BE INSTALLED AT A MINIMUM DEPTH OF 36 INCHES BELOW FINISHED GRADE AND AT LEAST 36 INCHES AWAY FROM THE BUILDING FOUNDATION.
4. BOND ALL METALLIC STRUCTURAL AND NON-STRUCTURAL COMPONENTS INCLUDING HVAC UNITS, JUNCTION BOXES, ENTRY PORTS, AND METALLIC CONDUIT SLEEVES DIRECTLY TO THE PERIMETER GROUND RING.
5. PROVIDE 2X MIN. BONDS TO EXTERNAL SYSTEMS SUCH AS FUEL TANKS, GENERATORS, PERIMETER FENCING, AND EXISTING GROUND RINGS IN ACCORDANCE WITH THEIR RESPECTIVE R56 GROUNDING DETAILS.
6. AT LEAST ONE GROUND ROD SHALL BE EQUIPPED WITH A TEST WELL FOR INSPECTION AND GROUND RESISTANCE TESTING PURPOSES.
7. TEST ELECTRODE SYSTEM RESISTANCE TO ENSURE ≤ 5 OHMS.
8. NEW FENCE POST(S) TO BE GROUNDED PER DETAILS 1 & 2/E4.4

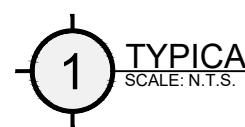
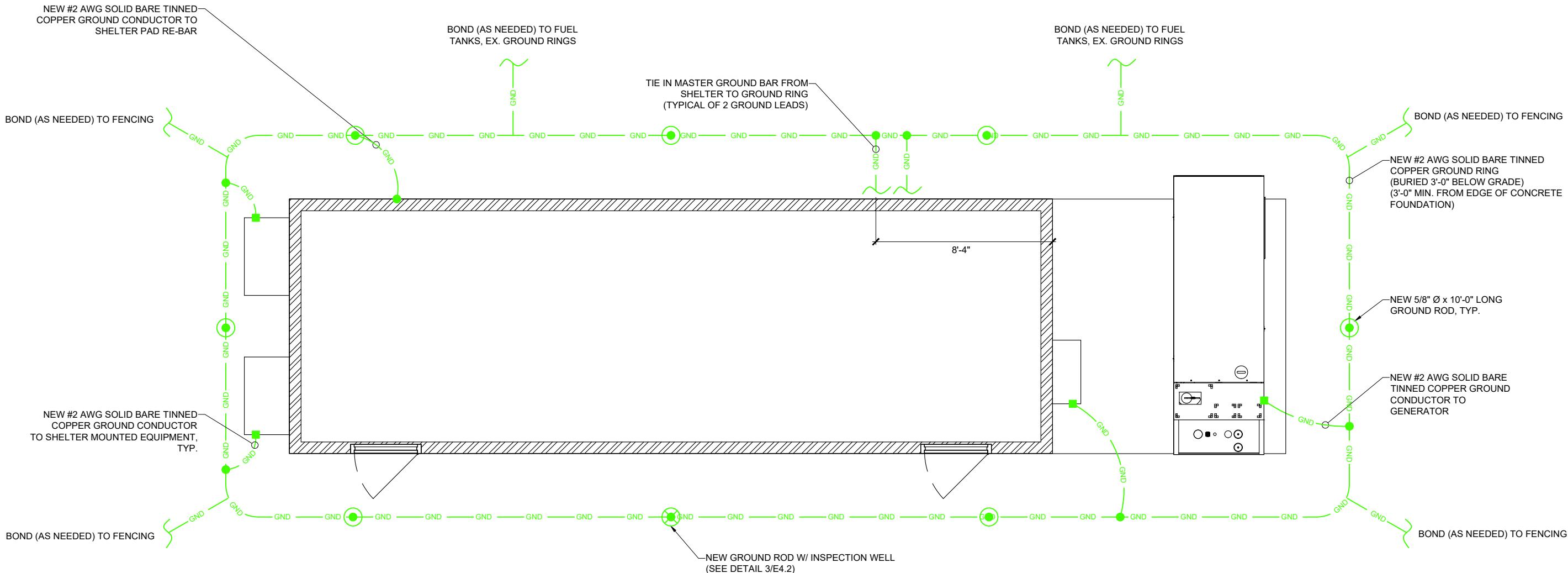
GROUNDING SYMBOLS:	
●	EXOTHERMIC
■	MECHANICAL
▲	COMPRESSION
○	GROUND ROD W/ INSPECTION WELL
●	GROUND ROD



SITE NAME:	BLANCHARD	
SITE ADDRESS:	32622 STATE HIGHWAY 41, BLANCHARD, ID 83804	
PROJECT:	FIBER HUT	
SET ISSUE:		
NO	DESC	DATE:
0	CDs	9/29/2025

GROUNDING PLAN

E4.1



TYPICAL SHELTER GROUNDING DETAIL

SCALE: N.T.S.



IIIG

Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

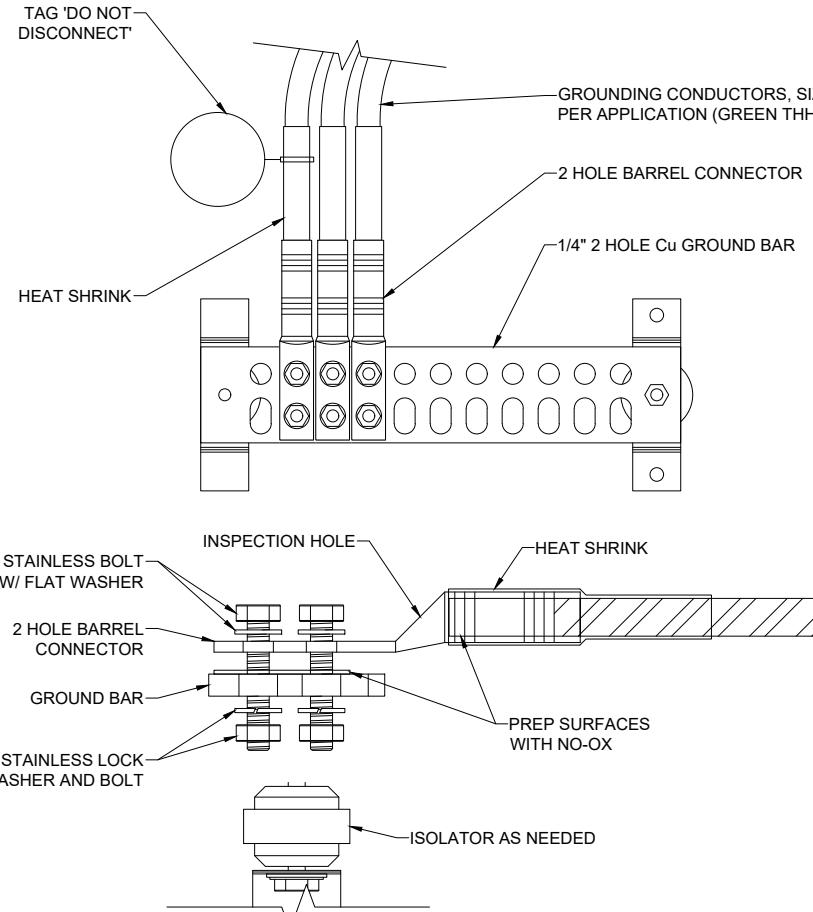
PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

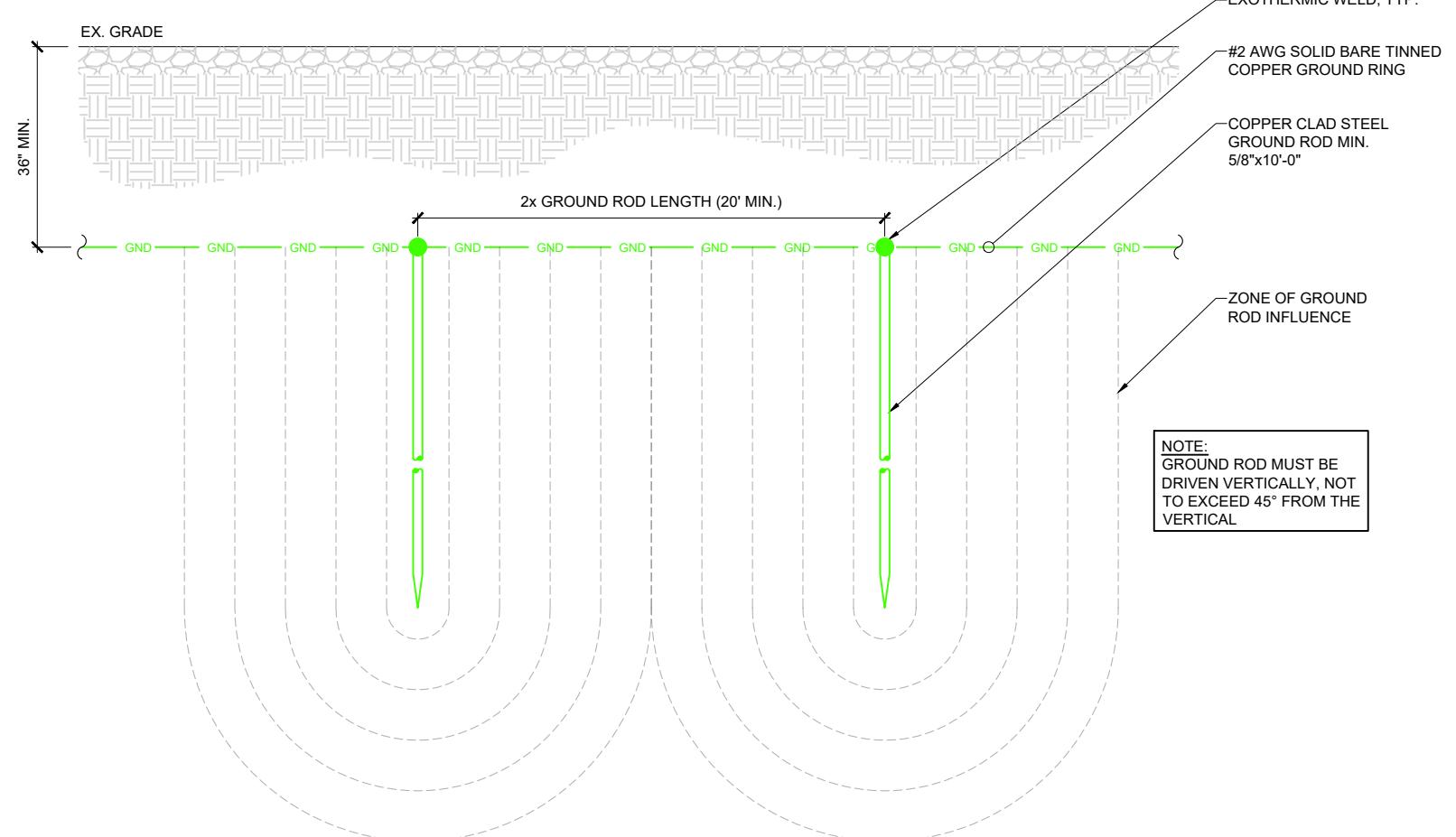
GROUNDING DETAILS

E4.2

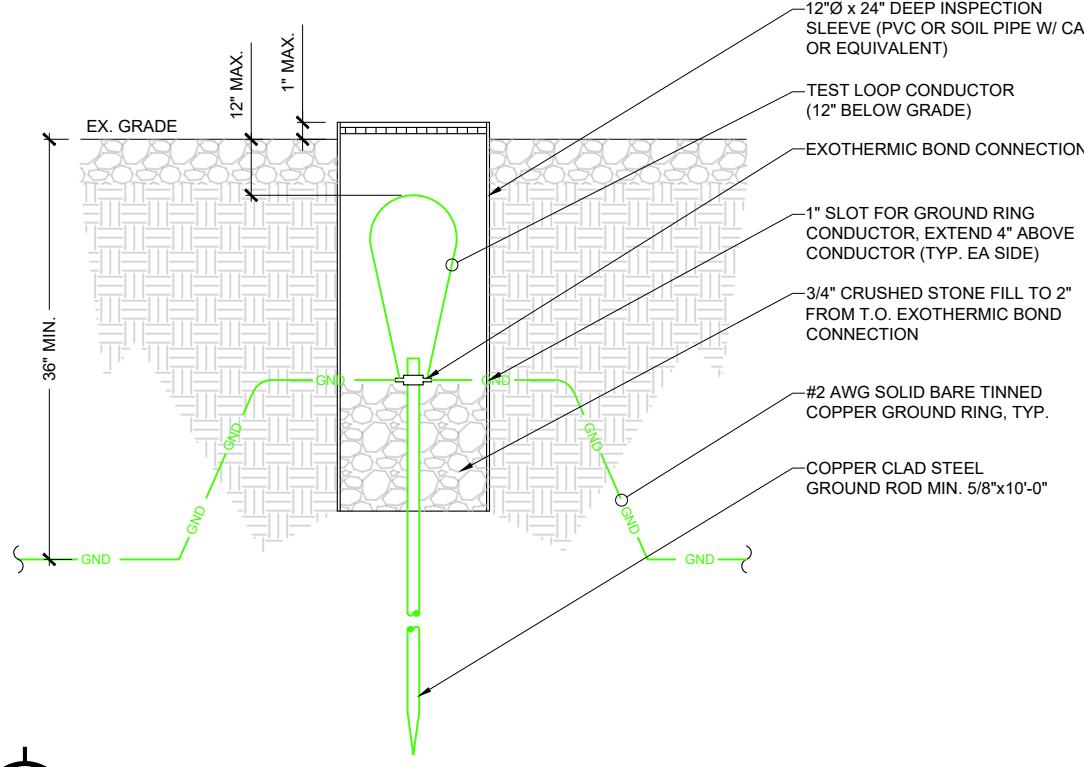
SCALE SET FOR 24" x 36" SHEET
USE 1/2 SCALE FOR 11" x 17" SHEET



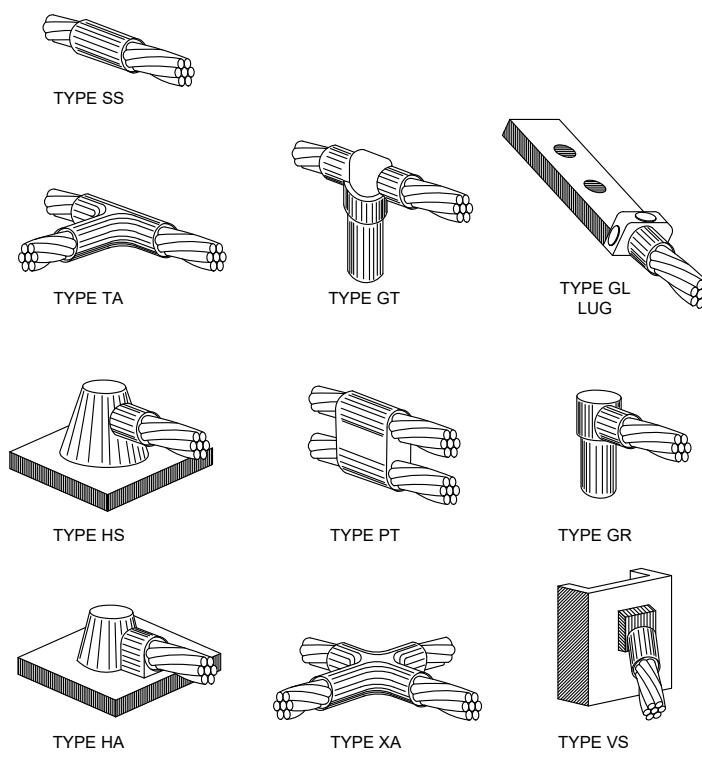
1 2 HOLE GROUND BAR
SCALE: N.T.S



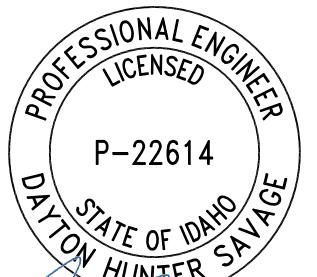
2 GROUND ROD DETAIL
SCALE: N.T.S



3 TEST GROUND ROD WITH INSPECTION SLEEVE
SCALE: N.T.S



4 CADWELD DETAILS
SCALE: N.T.S



SITE NAME:
BLANCHARD

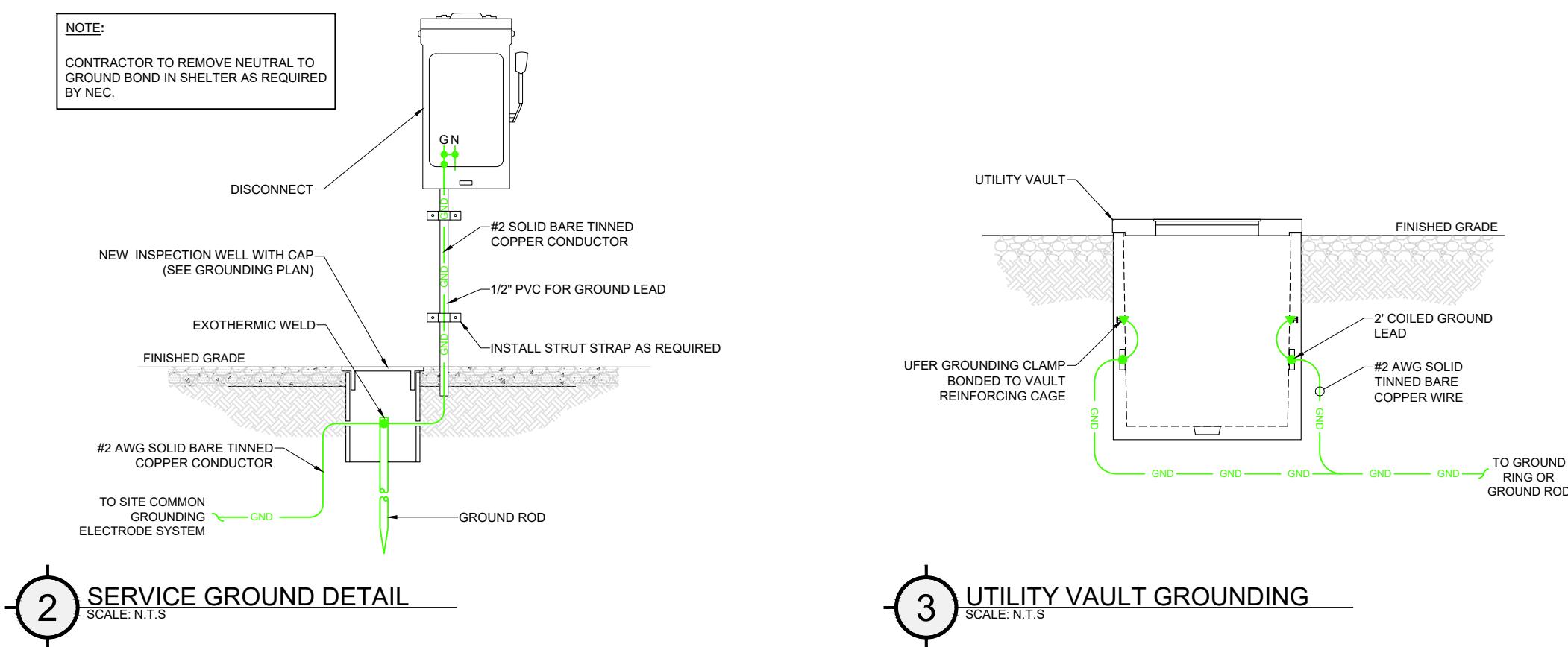
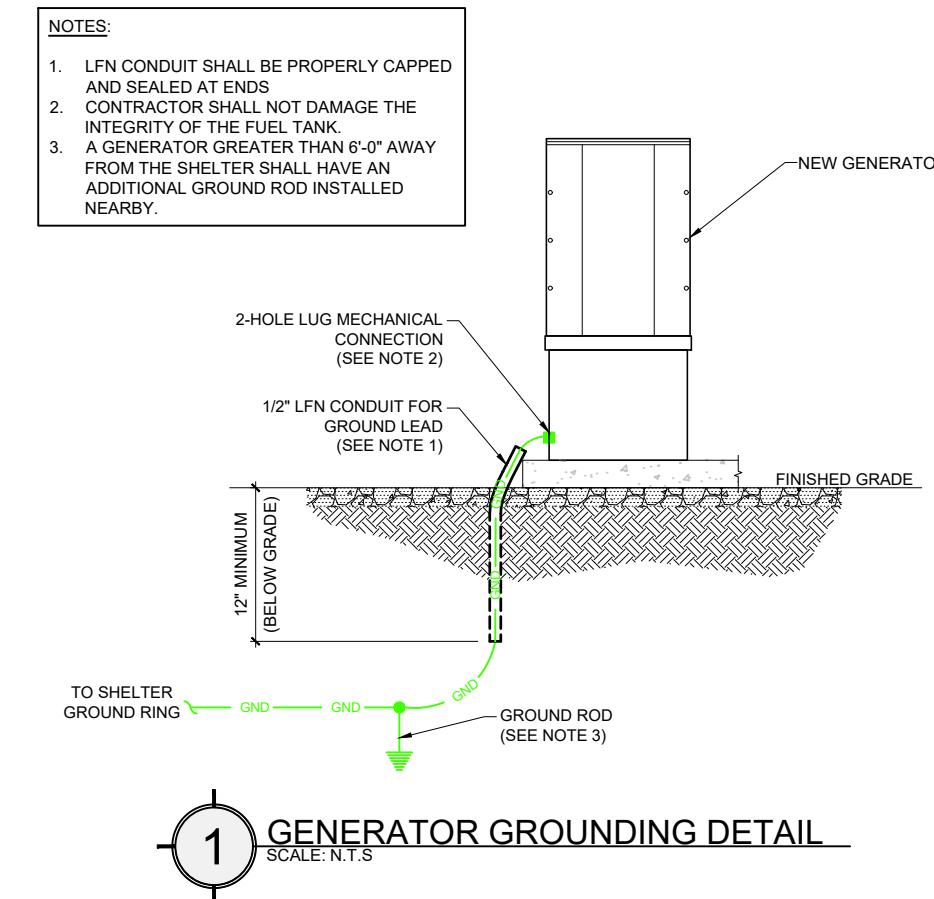
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

GROUNDING DETAILS

E4.3





Intermountain Infrastructure Group
533 AIRPORT BLVD SUITE 400
BURLINGAME, CA 94010



SITE NAME:
BLANCHARD

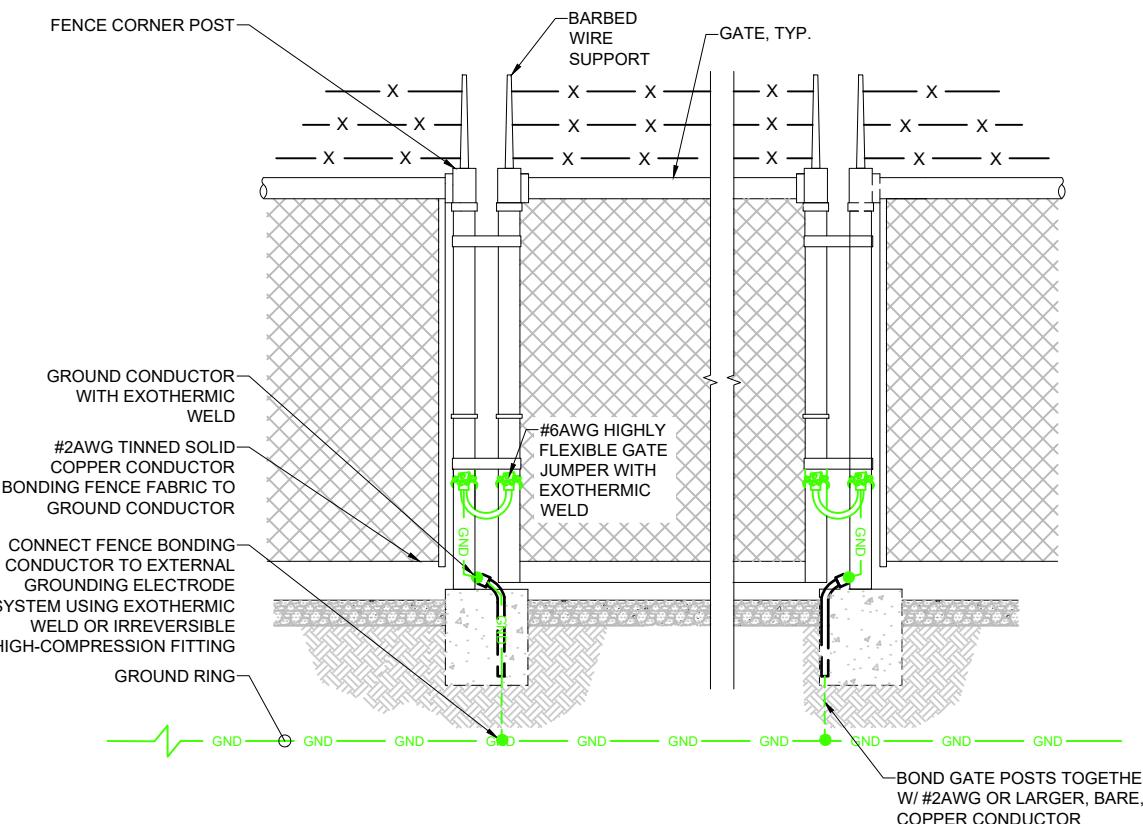
SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

PROJECT:
FIBER HUT

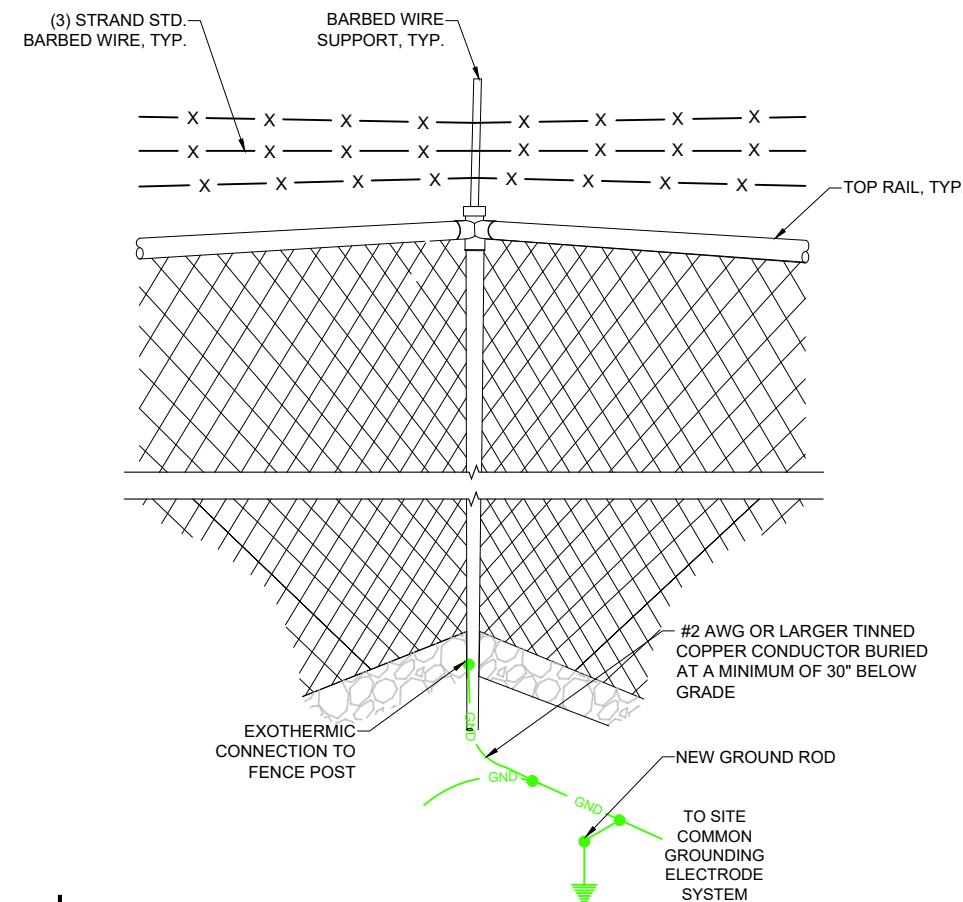
SET ISSUE:		
NO	DESC	DATE:
0	CDs	9/29/2025

GROUNDING
DETAILS

E4.4



1 FENCE & GATE STANDARD GROUNDING DETAIL
SCALE: N.T.S



2 GROUNDING DETAIL AT CORNER POST
SCALE: N.T.S

PROFESSIONAL ENGINEER
LICENSED
P-22614
DAYTON HUNTER SAVAGE
STATE OF IDAHO

09/29/2025



SITE NAME:
BLANCHARD

SITE ADDRESS:
32622 STATE HIGHWAY 41,
BLANCHARD, ID 83804

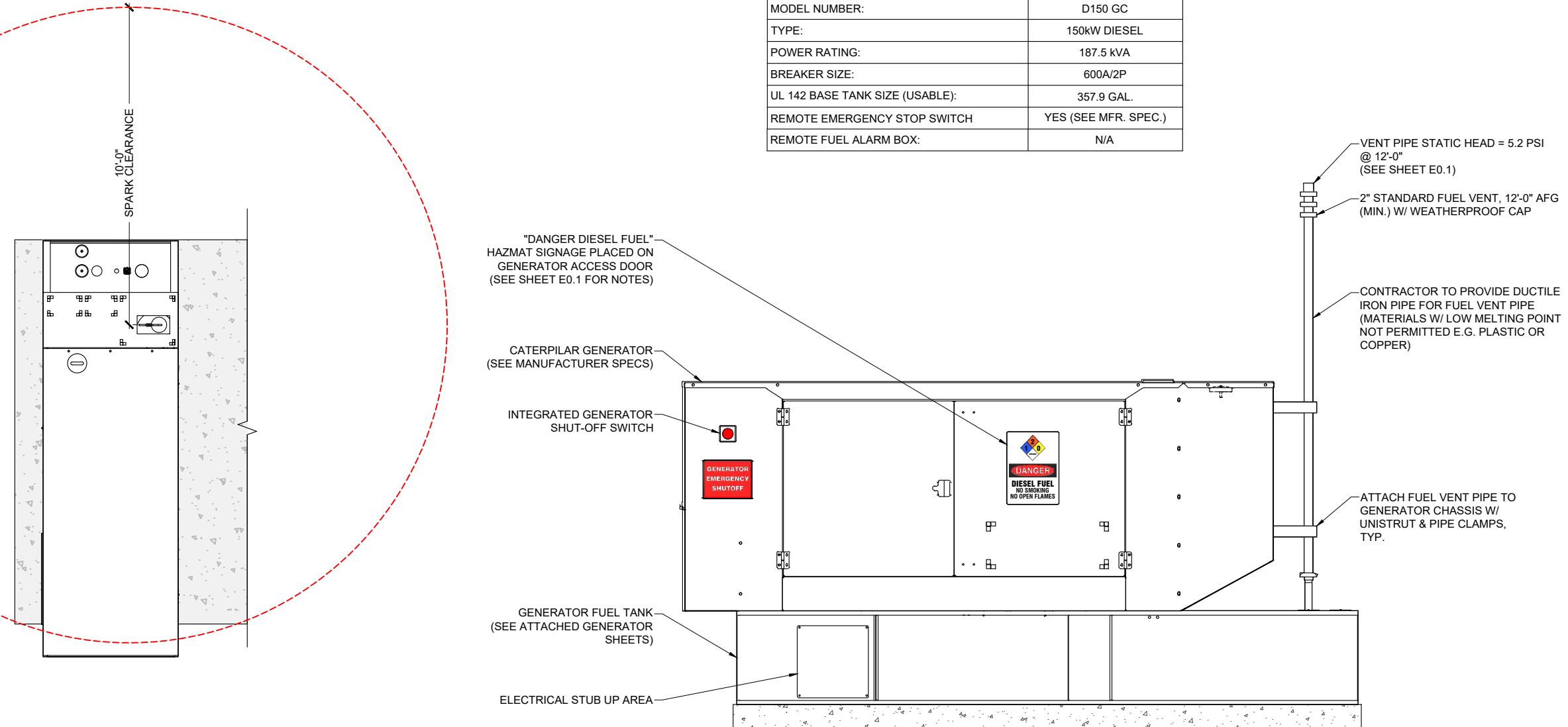
PROJECT:
FIBER HUT

SET ISSUE:	NO	DESC	DATE:
	0	CDs	9/29/2025

GENERATOR
DETAILS

E5.1

MANUFACTURER:	CATERPILLER
MODEL NUMBER:	D150 GC
TYPE:	150kW DIESEL
POWER RATING:	187.5 kVA
BREAKER SIZE:	600A/2P
UL 142 BASE TANK SIZE (USABLE):	357.9 GAL.
REMOTE EMERGENCY STOP SWITCH	YES (SEE MFR. SPEC.)
REMOTE FUEL ALARM BOX:	N/A



1 GENERATOR CLEARANCE PLAN
SCALE: N.T.S

2 GENERATOR ELEVATION
SCALE: N.T.S