

SITE NAME:

BLANCHARD WYCHYN1048.2POPBCHD1

32622 HWY 41
BLANCHARD, ID 83804

PROPOSED FIBER HUB CONSTRUCTION DRAWINGS



346 INVERNESS DR. SOUTH
BUILDING A, SUITE 100
ENGLWOOD, CO 80112
TEL: 720-344-5577



22 NORTH SHEEP LANE
NEPHI, UT 84648
PH: (435) 629-4628

BLANCHARD
WYCHYN1048.2POPBCHD1
32622 HWY 41
BLANCHARD, ID 83804
PROPOSED FIBER HUB

PROJECT NO:	G0167912		
CHECKED BY:	MB		
ISSUED FOR:			
REV	DATE	DOWN	DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-

MTC ENGINEERING

TITLE SHEET
SHEET NUMBER:
T-1


DRAWING INDEX

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ATTACHED	SHELTER PLANS BY OTHERS	


A/E DOCUMENT REVIEW STATUS

TITLE	SIGNATURE	DATE

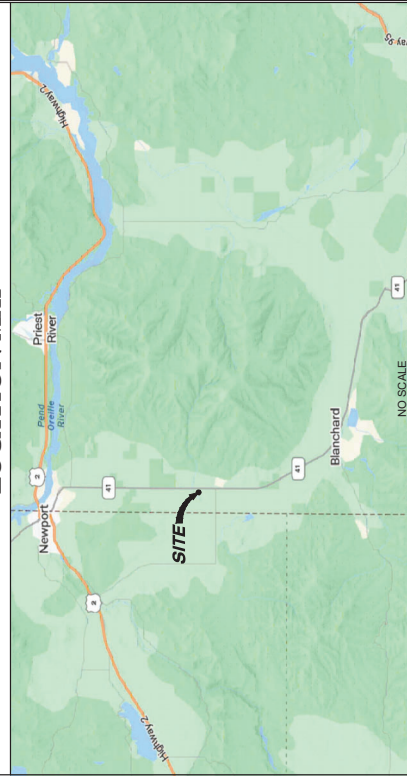
THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AS SHOWN AND DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.



CALL IDAHO DIG LINE
811 or 800-342-1585
CALL 3 WORKING DAYS
BEFORE YOU DIG!



LOCATION MAP



DRIVING DIRECTIONS

DEPART SPIRIT LAKE, ID CITY HALL (6042 W MAINE ST)
PROCEED WEST ON MAINE ST TOWARD N 5TH AVE
TURN RIGHT AT THE 1ST CROSS STREET ONTO ID-41 N/N 5TH AVE
PROCEED WEST ON ID-41 TOWARD BLANCHARD
ARRIVE AT SITE LOCATED ON THE WEST SIDE OF ID-41

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN
ARE FORMATTED FOR 11X17
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING
DIMENSIONS AND CONDITIONS ON THE JOB SITE AND
SHALL IMMEDIATELY NOTIFY ENGINEERING WRITING
OF ANY DISCREPANCIES BEFORE PROCEEDING WITH
THE WORK OR BE RESPONSIBLE FOR SAME.

SEE SHEET GN-1 FOR ADDITIONAL CONSTRUCTION NOTES

PROJECT DESCRIPTION

- THE PROPOSED PROJECT INCLUDES:
- INSTALL (1) NEW FENCED GRAVEL COMPOUND
 - INSTALL (1) NEW 8'X12' GENERATOR PAD
 - INSTALL (1) NEW 12'X36' WALK IN EQUIPMENT SHELTER
 - INSTALL NEW U.G. UTILITIES
 - INSTALL NEW GRAVEL DRIVEWAY

PROJECT SUMMARY

SITE NAME: WYCHYN1048.2POPBCHD1
 SITE NUMBER: 32622 HWY 41
 SITE ADDRESS: BLANCHARD, ID 83804
 JURISDICTION: BONNER COUNTY
 FACILITY OWNER: INTERMOUNTAIN INFRASTRUCTURE GROUP, LLC
 533 AIRPORT BLVD., SUITE 400
 BURLINGAME, CA 94010
 LEGAL@INTERMOUNTAINING.COM
 LANDLORD: POTTER TRUST POTTER DANIEL
 64 McDONALD CRK RD
 BLANCHARD, ID 83804
 LATITUDE: 48.089848° N
 LONGITUDE: -117.023710° W
 CUSTOMER/APPLICANT: INTERMOUNTAIN INFRASTRUCTURE GROUP, LLC
 533 AIRPORT BLVD., SUITE 400
 BURLINGAME, CA 94010
 LEGAL@INTERMOUNTAINING.COM
 (407) 951-8820
 OCCUPANCY TYPE: UNMANNED
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT
 FOR HUMAN HABITATION
 ELECTRIC PROVIDER: AVISTA
 PHONE NUMBER: 800-936-6629

CONTACT INFORMATION

A&E FIRM: MTC ENGINEERING, LP 850TH
 BUILDING A, SUITE 100
 ENGLWOOD, CO 80112
 CONTACT: 720-344-5577
 EMAIL: David.Kitbur@mtc-llc.com
 SITE ACO: MTC ENGINEERING, LP 850TH
 BUILDING A, SUITE 100
 ENGLWOOD, CO 80112
 CONTACT: 720-344-5577
 EMAIL: David.Kitbur@mtc-llc.com

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN
 ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES
 AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE
 THESE CODES SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO
 THESE CODES:
 CODE TYPE
 BUILDING/DWELLING IBC 2021
 STRUCTURAL IBC 2021
 MECHANICAL IBC 2021
 ELECTRICAL NEC 2020

millman
National Land Services
Transforming the Industry

Surveying
Zoning
Environmental
Real Support - Title Review
Millman Surveying, Inc.
Corporate Headquarters
4100 West 10th Street
Canton, OH 44718
Phone: 800-550-1010
Fax: 330-342-9834
www.millmanland.com
landsurveyors@millmanland.com

SPECIFIC PURPOSE SURVEY
PREPARED FOR:

B+ T Group
1717 South Boulder Avenue
Suite 300
Tulsa, OK 74119

State Route 41
Carter County
County of Elmer
State of Idaho



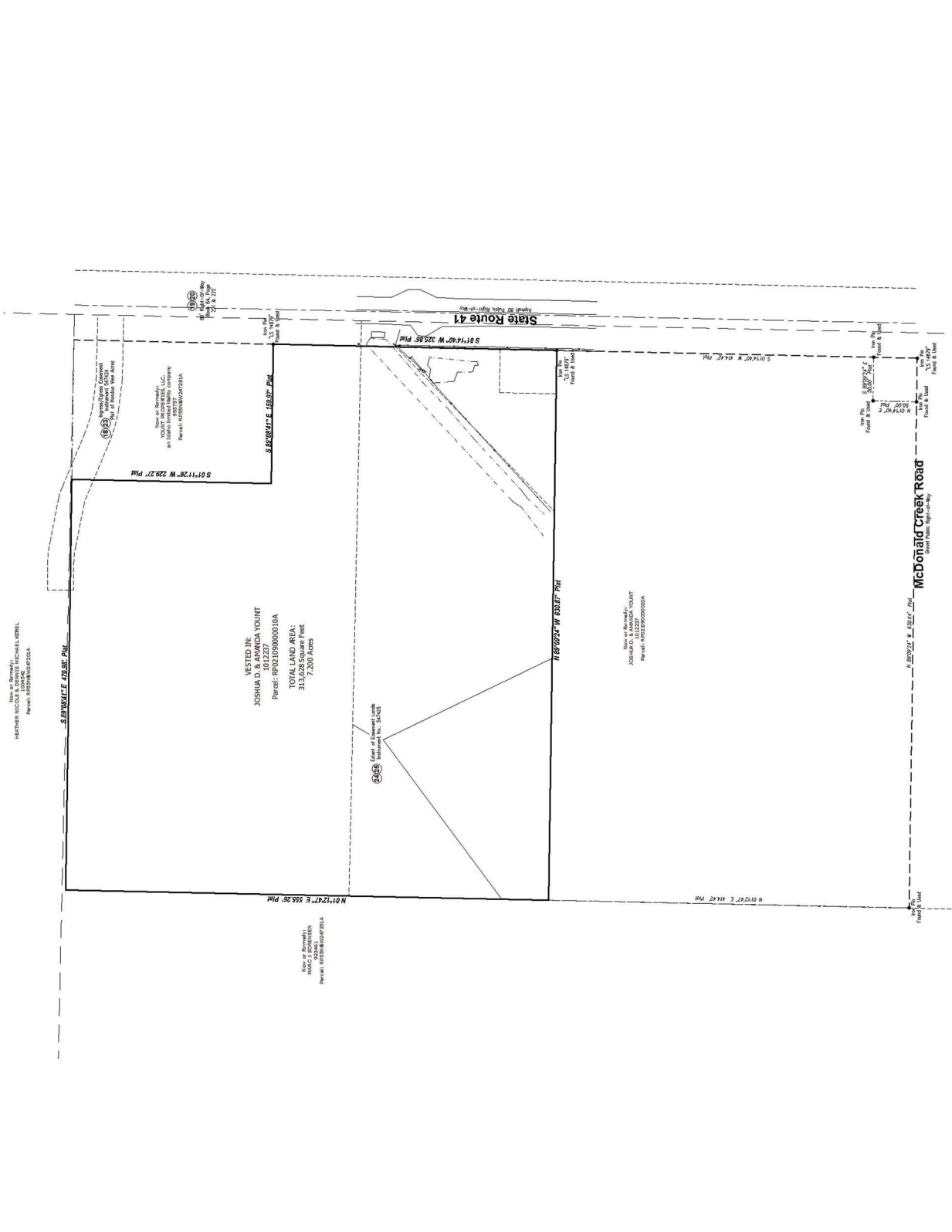
NORTH
GRAPHIC SCALE 1:1000
0 1 INCH = 50 FT.

**PRELIMINARY
FOR REVIEW ONLY**

Surveyor's Seal

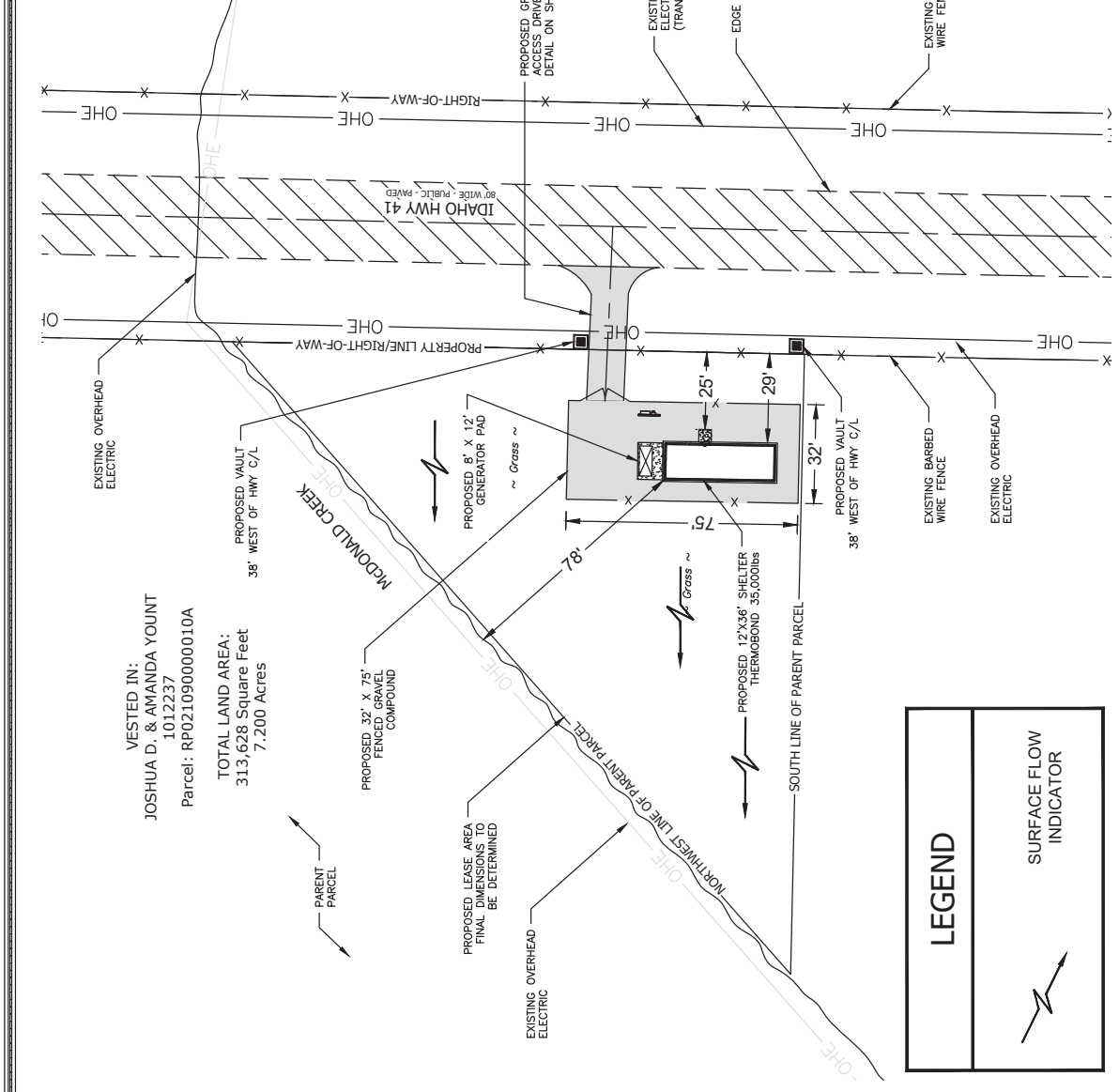
Sheet No. 2 of 2

MS Project No. 56508
P.L. JAR
Drafter: JAR



NOTES

1. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
2. NO NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
3. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
4. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. THERE IS NO HANDICAP ACCESS REQUIRED.
5. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
6. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE.
7. ACCORDING TO THE F.I.R.M. COMMUNITY PANEL #53063C0215D, DATED 07/06/2010, AND PANEL #42051C0203E, DATED 07/18/2018, THE PROPOSED SITE IS NOT IN A FLOOD PLAIN.
8. THERE ARE NO WETLANDS OR WATERS OF THE COMMONWEALTH LOCATED ON THE SITE AS PER A DETERMINATION BY THE NATIONAL WETLANDS INVENTORY ON 05/20/2020.

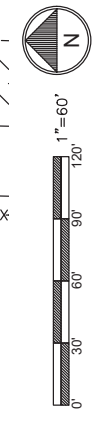


VESTED IN:
 JOSHUA D. & AMANDA YOUNT
 1012237
 Parcel: RP021090000010A

TOTAL LAND AREA:
 313,628 Square Feet
 7.200 Acres

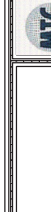
LEGEND

SURFACE FLOW INDICATOR

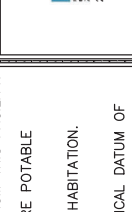


811

CALL IDAHO DIG LINE
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MTC ENGINEERING
 A MTC CONSULTING LLC COMPANY
 346 INVERNESS DR. SOUTH
 BUILDING A, SUITE 100
 ENGLISHTON, UT 84002
 TEL: 720-344-5577



RMWT
 REGISTERED MECHANICAL ENGINEER
 22 NORTH SHEEP LANE
 NEPHI, UT 84648
 PH: (435) 629-4628

BLANCHARD
 WYCHYNN1048.2POPBCHD1

32622 HWY 41
 BLANCHARD, ID 83804
 PROPOSED FIBER HUB

PROJECT NO: 00167912
 MB

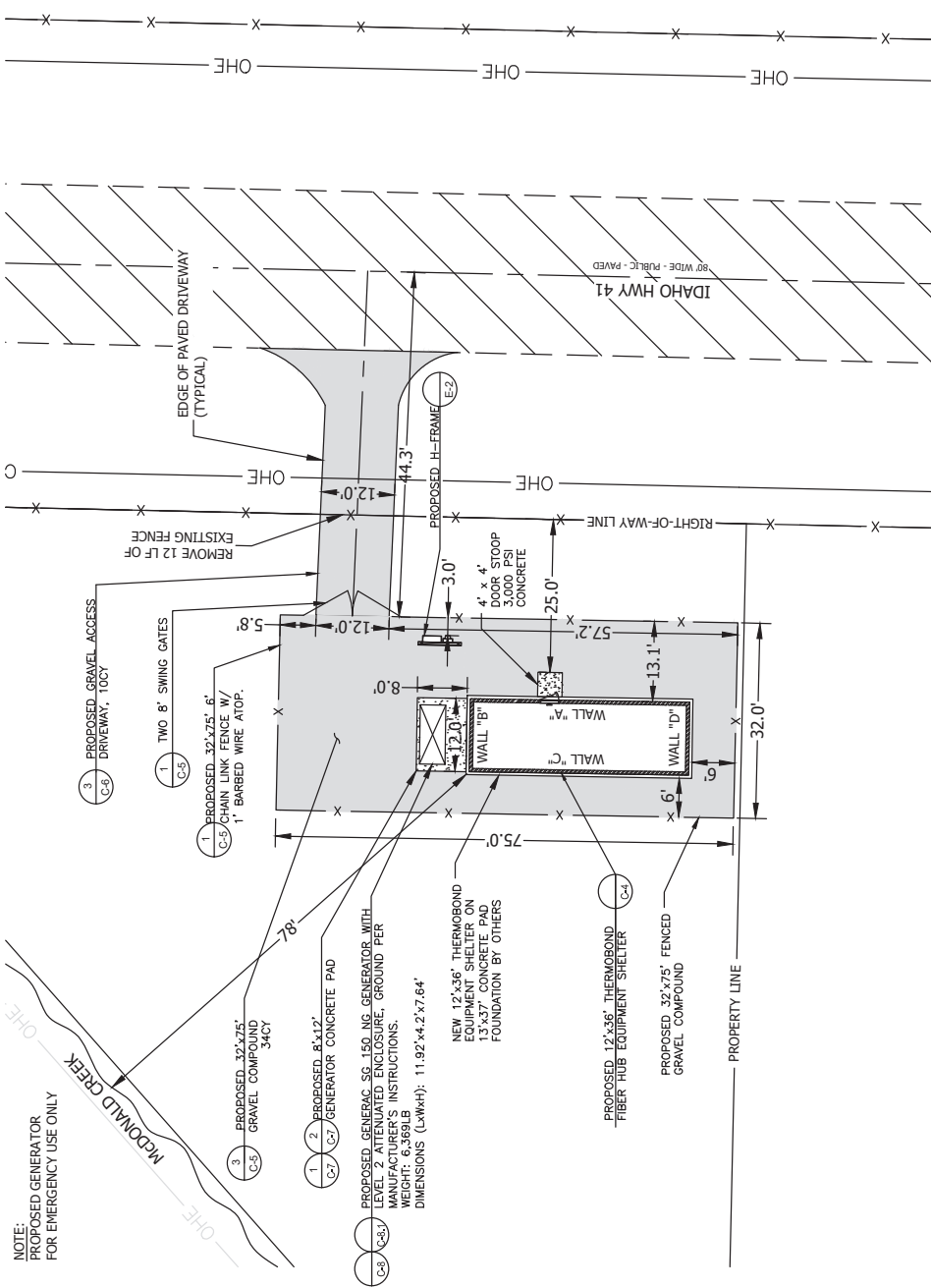
CHECKED BY:

ISSUED FOR:	
REV	DATE

MTC ENGINEERING

OVERALL SITE PLAN
 SHEET NUMBER:
C-1

ISSUED FOR:	
REV	DATE

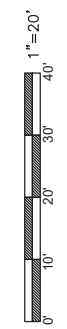


NOTE:
PROPOSED GENERATOR
FOR EMERGENCY USE ONLY

- 1. PROPOSED GENERAC SG-150 NG GENERATOR WITH LEVEL 2 ATTENUATED ENCLOSURE, GROUND PER MANUFACTURER'S INSTRUCTIONS. WEIGHT: 6,369LB. DIMENSIONS (LxWxH): 11.92'x4.21'x7.64'
- 2. PROPOSED 8'x12' GENERATOR CONCRETE PAD
- 3. PROPOSED 32'x75' CHAIN LINK FENCE W/ 1" BARBED WIRE ATOP.
- 3. PROPOSED 32'x75' GRAVEL COMPOUND 34CY
- 3. PROPOSED GRAVEL ACCESS DRIVEWAY, 10CY
- 1. TWO 8' SWING GATES
- 4' x 4' DOOR STOOP 3,000 PSI CONCRETE
- PROPOSED 12'x36' THERMOBOND EQUIPMENT SHELTER ON 12'x36' CONCRETE PAD FOUNDATION BY OTHERS
- PROPOSED 12'x36' THERMOBOND FIBER HUB EQUIPMENT SHELTER
- PROPOSED 32'x75' FENCED GRAVEL COMPOUND



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NOTES:

1. SEE GENERAL NOTES ON SHEET GN-1.
2. EXISTING FEATURES SHOWN HEREON ARE BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS PERFORMED BY MILLMAN LAND SURVEYORS, DATED MAY 8, 2023.
3. SEE UTILITY SHEET E-1 FOR ELECTRIC/FIBER DESIGN.
4. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION OF ALL EXISTING ABOVE GROUND AND UNDERGROUND IMPROVEMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RELOCATION OR REPAIR OF EXISTING IMPROVEMENTS DUE TO DAMAGE CAUSED DURING CONSTRUCTION.
6. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS PROJECT.
7. CONTRACTOR SHALL COORDINATE OVERHEAD POWER AND FIBER WITH UTILITY PROVIDERS PRIOR TO BIDDING PROJECT.
8. SEED AND MULCH ALL DISTURBED AREAS PER NOTES ON SHEET GN-1.
9. REFERENCE LEGEND ON THIS SHEET.

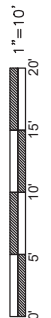
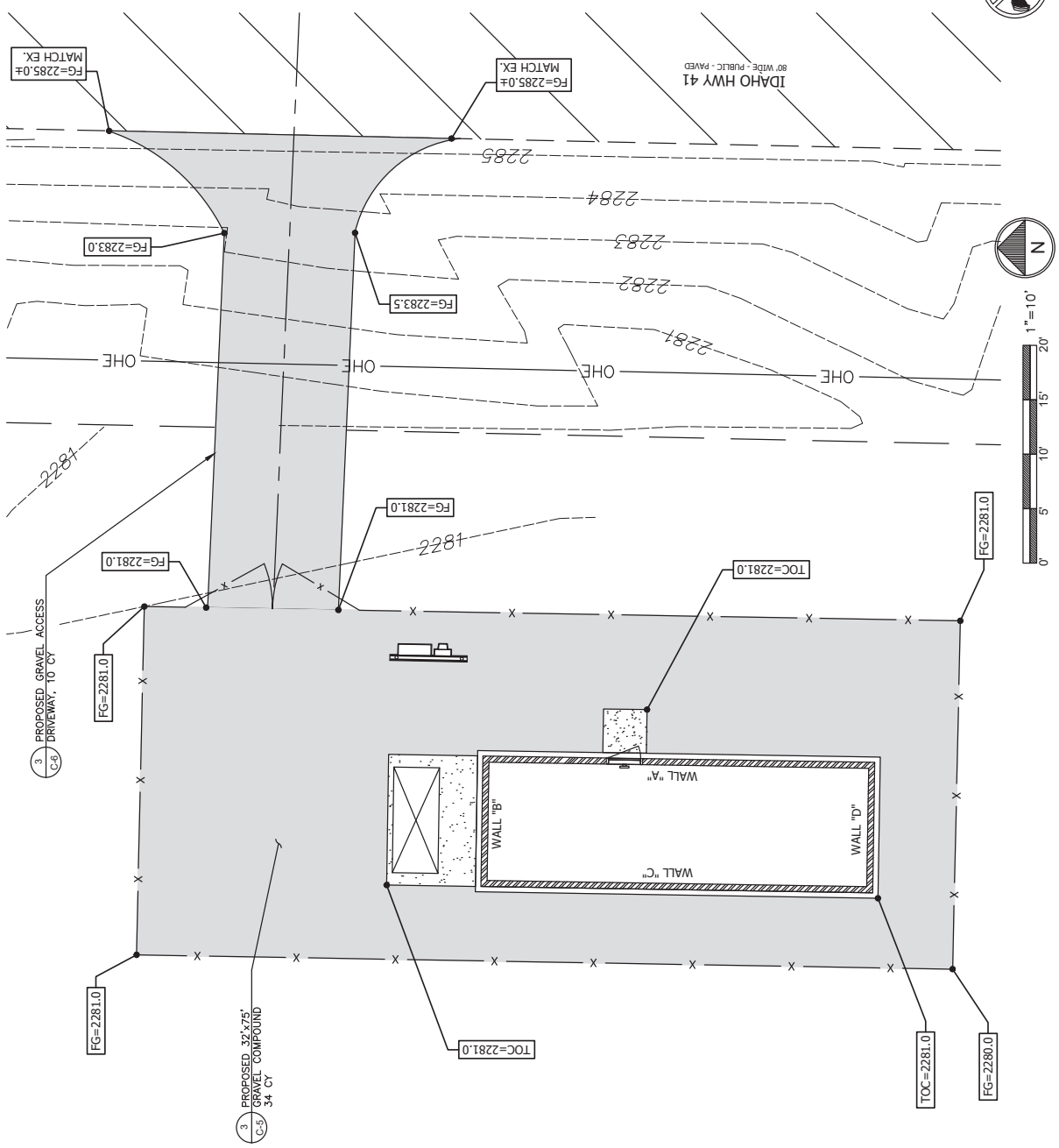
THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED WITHIN THIS DESIGN PACKAGE. DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

LEGEND

MAJOR EXISTING CONTOUR	1320
MINOR EXISTING CONTOUR	1321
FINISHED GRADE ELEVATION	FG=1711.5
TOP OF CONCRETE ELEVATION	TOC=1711.33
NEW CHAIN LINK FENCE	x
EXISTING OVERHEAD ELECTRIC UTILITY	OHE
EXISTING FIBER RISER	◻
EXISTING UTILITY POLE	○



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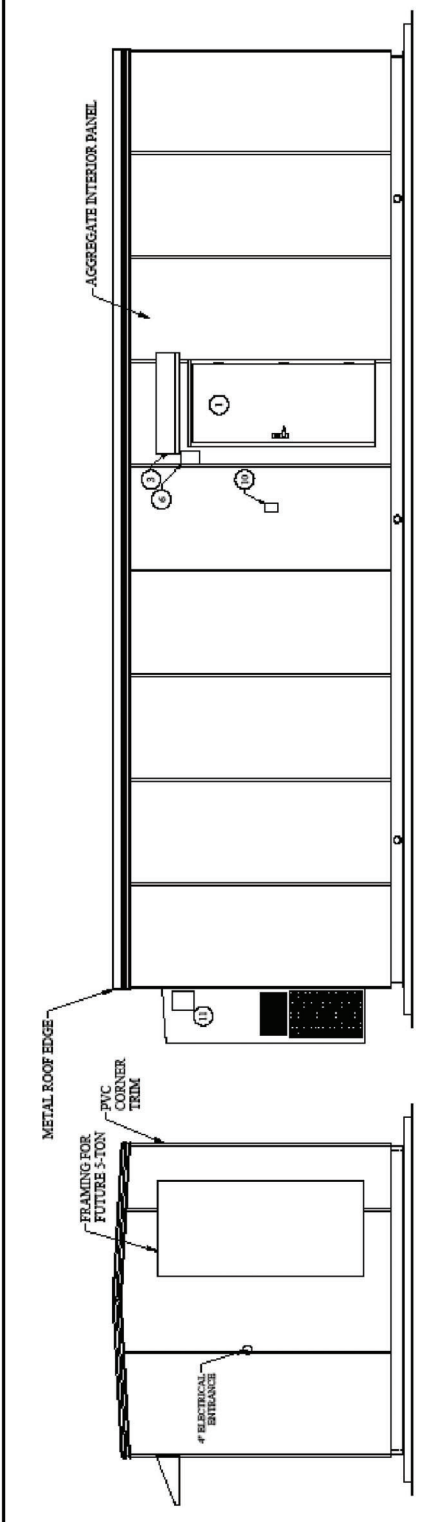
PROJECT NO:	G0167912	
CHECKED BY:	MB	
ISSUED FOR:		
REV	DATE	DESCRIPTION
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MTC ENGINEERING

EQUIPMENT SHELTER
 ELEVATION DETAILS

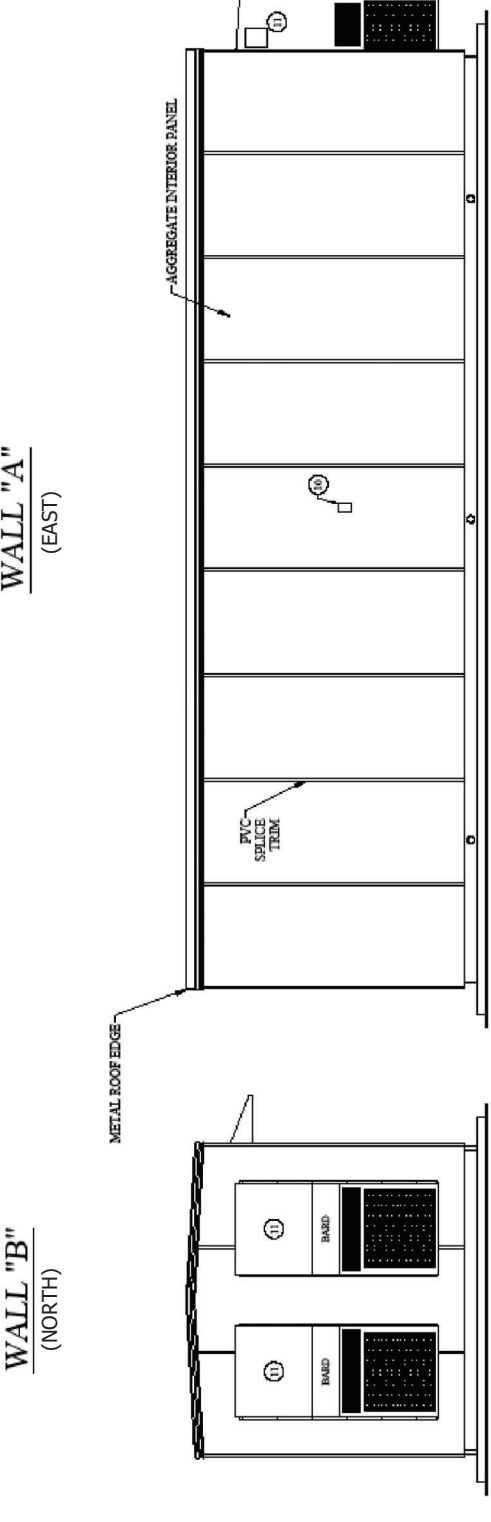
SHEET NUMBER:
C-4

 ThermoBond 1103 W. Main St. P.O. Box 5705 Blaine, UT 84304 435-596-2006 www.thermobond.com 314-205-1214	Elevation Views IDAHO SHELTER 12' W. OD x 36'1" OD x 9' H OD TBB1644 Infrastructure Group Intermountain PROJECT NUMBER: 2212-473 DRAWING NUMBER: 6/13/23 DATE: 6/13/23 DRAWN BY: SAR SHEET: 6 of 16 SCALE: 1/4" = 1'-0" PROJECT NUMBER: 2212-473 DATE: 1/10/23
---	--



WALL "A"
 (EAST)

WALL "B"
 (NORTH)



WALL "C"
 (WEST)

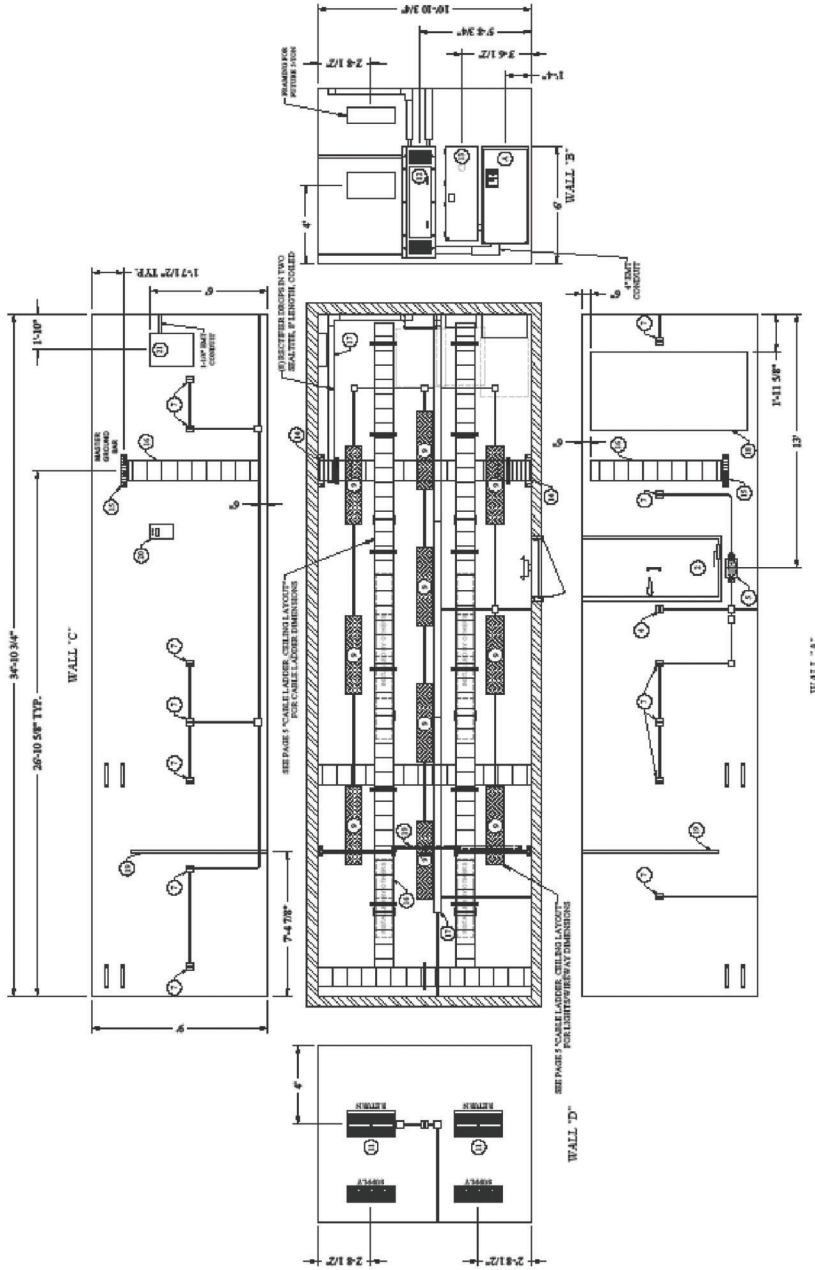
WALL "D"
 (SOUTH)

1 ELEVATION VIEWS
 SCALE: NTS

DETAILS PROVIDED BY RMWT/JIG
 REFER TO THE COMPLETE 'THERMOBOND' SHELTER PLAN (DWG NO. TBB1644) FOR ADDITIONAL INFORMATION

ISSUED FOR:		
REV	DATE	DESCRIPTION

NOTES:
1. ALL CONDUIT SHOWN IS APPROXIMATE AND MAY NOT REFLECT ACTUAL RUNS IN BUILDING



PROJECT NUMBER: 2212-473
DRAWN BY: SAR
DATE: 6/13/23
SCALE: 1/8" = 1'-0"

THERMOBOND
BUILDINGS
5130 COMPTON BLVD
COLUMBIANA, MS 38917
TEL: 662-833-1214
WWW.THERMOBOND.COM

Interior Layout
IDAHO
SHELTER
12' W. OD x 9'6" OD x 9'6" ID

TBB1644
Infrastructure Group
DRAWING NUMBER:

PROJECT NUMBER:	DATE:	BY:
2212-473	6/13/23	SAR

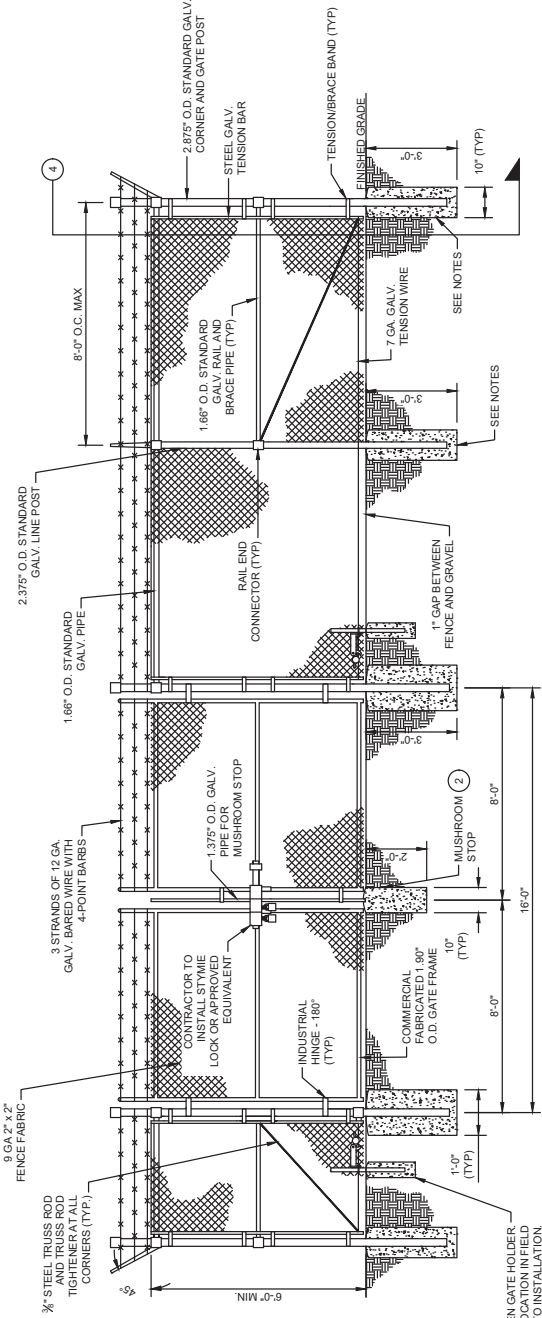
DETAILS PROVIDED BY RMWT/JIG

REFER TO THE COMPLETE THERMOBOND SHELTER PLAN (DWG NO. TBB1644) FOR ADDITIONAL INFORMATION

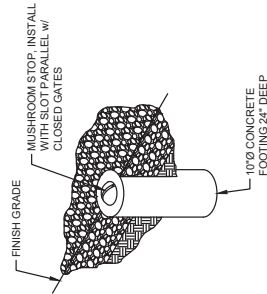
FENCE NOTES

- USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
- WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 1" DEEP AND 1" LARGER IN DIAMETER THAN 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 GATE POSTS 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.
- REFER TO SHEET G-3 FOR FENCE GROUNDING DETAILS.

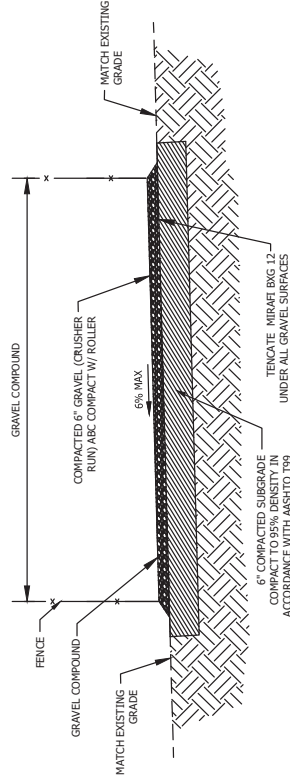
DUCK BILL OPEN GATE HOLDER - VISUAL ALIGNMENT FIELD PRIOR TO INSTALLATION



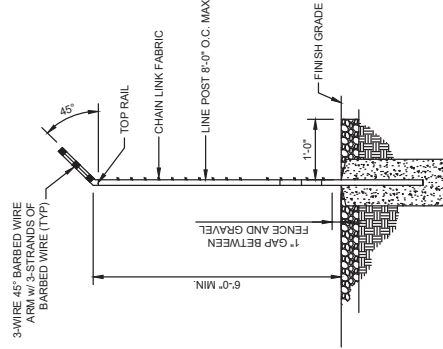
1 TYPICAL FENCE AND GATE DETAIL
SCALE: N.T.S.



2 MUSHROOM STOP DETAIL
SCALE: N.T.S.



3 SITE COMPOUND SURFACE DETAIL
SCALE: N.T.S.



4 FENCE SECTION DETAIL
SCALE: N.T.S.

MTC ENGINEERING
A MTC CONSULTING LLC COMPANY
1000 W. MAIN STREET, SUITE 100
ENGLAND, CT 06033
TEL: 720-344-5577

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NEPHI, UT 84648
PH: (435) 629-4628

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32622 HWY 41
BLANCHARD, ID 83804
PROPOSED FIBER HUB

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MTC ENGINEERING

ENGINEERING
DETAILS

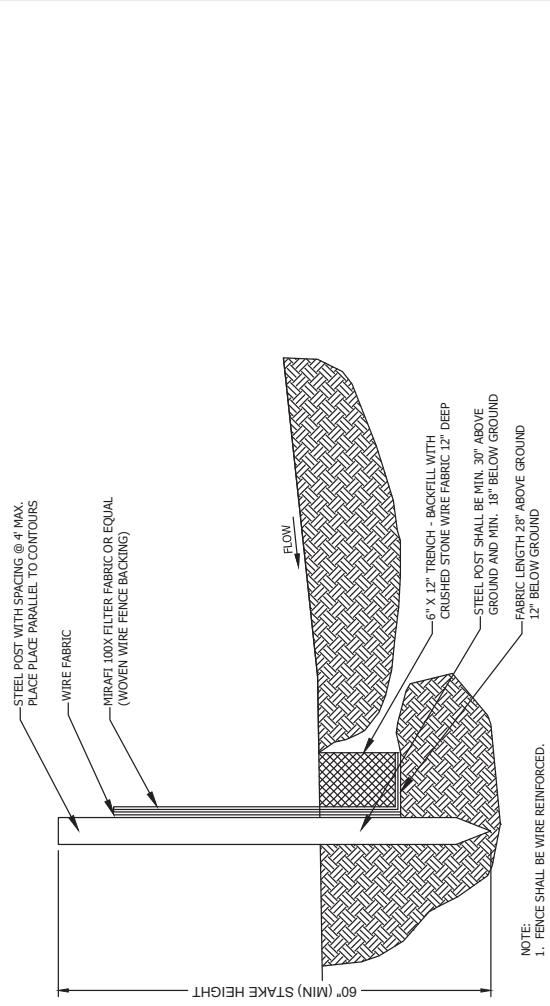
SHEET NUMBER:
C-5

ISSUED FOR:	
REV	DATE

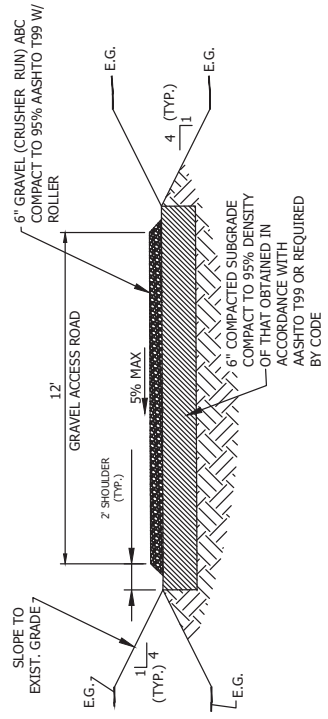
MTC ENGINEERING

ENGINEERING
 DETAILS

SHEET NUMBER:
C-6



2 TEMPORARY SILT FENCE DETAIL - IF REQUIRED
 SCALE: N.T.S.



3 ON GRADE GRAVEL ROAD SECTION
 SCALE: N.T.S.

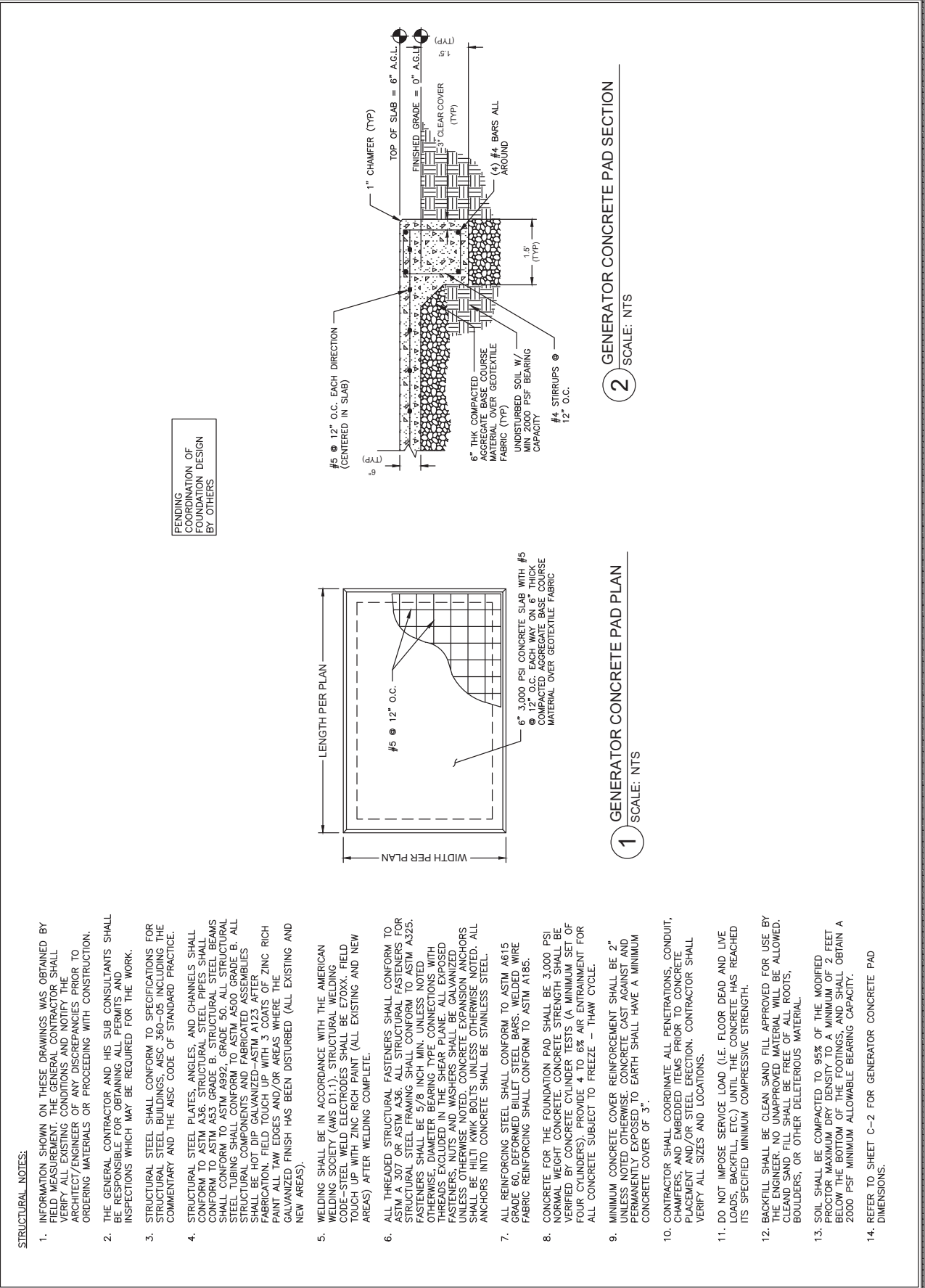
NOTES:
 1. THE CONTRACTOR MUST SUPER-ELEVATE ALL ROAD SECTIONS.
 2. THE MAXIMUM SUPER-ELEVATION SHALL NOT EXCEED 5% CROSS SLOPE.

PROJECT NO:	G0107912	
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MTC ENGINEERING

ENGINEERING
 DETAILS

SHEET NUMBER:
C-7



PENDING
 COORDINATION OF
 FOUNDATION DESIGN
 BY OTHERS

2 GENERATOR CONCRETE PAD SECTION
 SCALE: NTS

1 GENERATOR CONCRETE PAD PLAN
 SCALE: NTS

- STRUCTURAL NOTES:**
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.
 - THE GENERAL CONTRACTOR AND HIS SUB CONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.
 - STRUCTURAL STEEL SHALL CONFORM TO SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AISC 360-05 INCLUDING THE COMMENTARY AND THE AISC CODE OF STANDARD PRACTICE.
 - STRUCTURAL STEEL PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36. STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. STRUCTURAL STEEL BEAMS SHALL CONFORM TO ASTM A992, GRADE 50. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL COMPONENTS AND FABRICATED ASSEMBLIES SHALL CONFORM TO ASTM A133. ALL WELDED JOINTS SHALL BE FIELD TIGHT UP WITH 1 COAT OF ZINC RICH PAINT ALL TAW EDGES AND/OR AREAS WHERE THE GALVANIZED FINISH HAS BEEN DISTURBED (ALL EXISTING AND NEW AREAS).
 - WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1). STRUCTURAL WELDING CODE-STEEL WELD ELECTRODES SHALL BE E70XX. FIELD TOUCH UP WITH ZINC RICH PAINT (ALL EXISTING AND NEW AREAS) AFTER WELDING COMPLETE.
 - ALL THREADED STRUCTURAL FASTENERS SHALL CONFORM TO ASTM A 307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8 INCH MIN. UNLESS NOTED OTHERWISE. DIAMETER BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED IN THE SHEAR PLANE. ALL EXPOSED NUTS, WASHERS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, DEFORMED BILLET STEEL BARS. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185.
 - CONCRETE FOR THE FOUNDATION PAD SHALL BE 3,000 PSI NORMAL WEIGHT CONCRETE. CONCRETE STRENGTH SHALL BE VERIFIED BY CONCRETE CYLINDER TESTS (A MINIMUM SET OF FOUR CYLINDERS), PROVIDE 4 TO 6% AIR ENTRAINMENT FOR ALL CONCRETE SUBJECT TO FREEZE - THAW CYCLE.
 - MINIMUM CONCRETE COVER REINFORCEMENT SHALL BE 2" UNLESS NOTED OTHERWISE. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH SHALL HAVE A MINIMUM CONCRETE COVER OF 3".
 - CONTRACTOR SHALL COORDINATE ALL PENETRATIONS, CONDUIT, CHAMFERS, AND EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT AND/OR STEEL ERECTION. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS.
 - DO NOT IMPOSE SERVICE LOAD (I.E. FLOOR DEAD AND LIVE LOADS, BACKFILL, ETC.) UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED MINIMUM COMPRESSIVE STRENGTH.
 - BACKFILL SHALL BE CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.
 - SOIL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY TO A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE FOOTINGS, AND SHALL OBTAIN A 2000 PSF MINIMUM ALLOWABLE BEARING CAPACITY.
 - REFER TO SHEET C-2 FOR GENERATOR CONCRETE PAD DIMENSIONS.

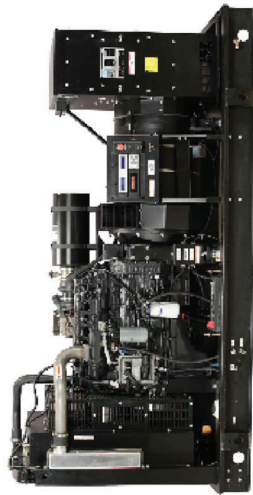
SD150 | 6.7L | 150 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

SD150 | 6.7L | 150 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



Standby Power Rating
150 kW, 188 kVA, 60 Hz

Prime Power Rating*
135 kW, 169 kVA, 60 Hz






*EPA Certified Prime power rating is not available in the 48 contiguous states.

Image used for illustration purposes only.

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- 
UL2200, UL6200, UL1236, UL489, UL142
- 
CSA C22.2, ULC S601
- 
BS5514 and DIN 6271
- 
SAE J1549
- 
NFPA 37, 70, 99, 110
- 
NEC700, 701, 702, 708
- 
ISO 3046, 7637, 8528, 9001
- 
NEMA ICS10, MG1, 250, ICS8, AB1
- 
ANSI C82.41
- 
IBC 2008, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)
- 

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Level 1 Fan and Belt Guards (Open Sec Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Sec Only)
- Engine Coolant Heater
- Critical Sensor

FUEL SYSTEM

- Fuel Lockout Solenoid
- Fuel Systematic Spin Banned
- Jerrycan Warning
- Full Load Capacity Alternator
- Precise Thermal Switch

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ultraviolet Filter
- Fan-Driven Radiator
- Fan Separator
- 56/60 Engine Output Airframe

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 Generator™
- 12 Leads (3-Phase, Non 800V)
- Cast In Insulation Material
- Vented Motor
- 2/3 Pitch
- Stowed Stator
- Auxiliary Voltage Regulator Power Winding
- Permanent Magnet Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Rotor Dynamically Spin Banned)
- Jerrycan Warning
- Full Load Capacity Alternator
- Precise Thermal Switch

GENERATOR SET

- Inertia Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Exhaust Tapping
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Sensor Mounted in the Discharge Hood (Optional Units Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers
- High Performance Sound-Absorbing Material (Sound Attenuator Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Flange Pressure Tested - 2 psi
- Fueling Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM

- E-Stop (Red Mushroom-Type)
- NFPA 10 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Enclosure
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Tending
- 0.2 Inrush High Speed Remote Tending on the Display
- Alarm Information Automatically Announced



Digital Hi Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- HI-522-468 Communications
- HI-Phase Sensing Digital Voltage Regulator
- 2-Phase to 3-Phase Capability
- Load Time Filler (Event Log)
- Remote Engine Start Control
- Web-based Control
- Alarm Alarm Reset Countdown
- Not in Auto (Warning Light)
- Auto Off/Manual Switch

BLANCHARD
WYCHYN1048.2POPBCHD1
32622 HWY 41
BLANCHARD, ID 83804
PROPOSED FIBER HUB

PROJECT NO:	G0107912		
CHECKED BY:	MB		
ISSUED FOR:			
REV	DATE	DOWN	DESCRIPTION
-	-	-	-

MTC ENGINEERING	
GENERATOR DETAILS	

SHEET NUMBER:
C-8

SD150 | 6.7L | 150 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil heater
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- Air Filter Restriction Indicator
- Radiator Spare Guard (Open Set Only)
- Critical Stopper (Open Set Only)

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heater (with Motorized Dampers Only)
- Door Open Alarm Horn

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker uses Thermal Magnetic AXP Fuel Tanks (Size On Last Page)
- 8 in (203.2 mm) Full Extension
- 13 in (330.2 mm) Full Extension
- Overfill Protection Valve
- Return Hose
- Tank Risers
- 80% Fuel Level Switch
- 12" Above Grade Vent Extension
- Stainless Steel Fire Rated Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Secure Ignition Outputs
- Battery Disconnected Switch

GENERATOR SET

- NEMA 110 Compliant 24-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote Stop (Break Glass-Type, Surface Mount)
- Remote Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Beared Fuel Annunciator
- 120V GFCI and 200V OUTFLS
- Dampers Alarm Contacts (with Motorized Dampers Only)
- Remote Communication - Modem
- 10A Engine Run Relay
- Oil Temperature Indication and Alarm

WARRANTY

- 3 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Treatng

SD150 | 6.7L | 150 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General	Invo/FFT	Closed
Metric	Stationary Emergency	Red Lines Centrifugal
EPA Emissions Compliance	See Emission Data Sheet	2.538
EPA Emissions Reference	6	29 (660)
Generator #	6-Line	
Type	Displacement - in ³ (L)	489.86 (8.7)
Stroke - in (mm)	4.09 (104)	
Compression Ratio	5.2 (126)	
Inlet-Air Method	Turbocharged/Intercooled	
Generator Head Type	A-Alum	
Frame Type	Aluminum Alloy	
Crankshaft Type	Forged Steel	
Engine Governing	Electronic synchronous	
Governor	Frequency Regulation (Steady State)	±0.25%
Lubrication System	Oil Pump Type	Gear
Oil Filter Type	Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - qt (L)		26.7 (19.6)

ALTERNATOR SPECIFICATIONS

Standard Model	K0150124Y21	Permanent Magnet
Poles	4	Single Stack Cartridge
Field Type	Revolving	Direct via Flexible Disc
Insulation Class - Rotor	H	Protective Short Circuit Fuse
Insulation Class - Stator	H	Voltage Regulator Type
Total Harmonic Distortion	<5%	Number of Sensed Phases
Telephone Interference Factor (TIF)	< 50	Regulator Accuracy (Steady State)
		±0.25%

Cooling System	Water Pump Type	Ultra Low Sump Diesel Fuel #2
Water Pump Type	Run Speed - RPM	5
Run Speed - RPM	Run Diameter - in (mm)	Engine Driven Gear
Run Diameter - in (mm)	Fuel System	Electronic
Fuel System	Fuel Type	0.5 (16.7) MPPT
Fuel Type	Fuel Filtration (Microns)	0.5 (16.7) MPPT
Fuel Filtration (Microns)	Fuel Pump Type	12 VDC
Fuel Pump Type	Injector Type	Electronic
Injector Type	Fuel Supply Line - in (mm)	12 VDC
Fuel Supply Line - in (mm)	Fuel Return Line - in (mm)	Negative
Fuel Return Line - in (mm)	Engine Electrical System	
Engine Electrical System	System Voltage	12 VDC
System Voltage	Battery Charger Alternator	Standard
Battery Charger Alternator	Battery Size	See Battery Model 018197050Y
Battery Size	Battery Voltage	12 VDC
Battery Voltage	Ground Polarity	Negative

Standard Excitation	Permanent Magnet
Bearing	Single Stack Cartridge
Cooling	Direct via Flexible Disc
Protective Short Circuit Fuse	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulator Accuracy (Steady State)	±0.25%

MTC ENGINEERING
A MTC CONSULTING LLC COMPANY
INDUSTRIAL POWER
346 INVERNESS DR. SOUTH
BUILDING A, SUITE 100
ENGLISHTON, NJ 08012
TEL: 720-344-5577



BLANCHARD
3262 HWY. 41
BLANCHARD, ID 83804
PROPOSED FIBER HUB
WYCHYNN1048.2POPBCHD1

PROJECT NO: 00167912
CHECKED BY: MB

ISSUED FOR:	
REV	DATE DESCRIPTION
-	-
-	-
-	-

MTC ENGINEERING

SHEET NUMBER:
C-8.1

ISSUED FOR:	
REV	DATE DESCRIPTION

NOTES:

- SEE GENERAL NOTES ON SHEET GN-1.
- EXISTING FEATURES SHOWN HEREON ARE BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS PERFORMED BY MILLMAN LAND SURVEYORS, DATED MAY 8, 2023.
- INSTALL UNDERGROUND CONDUIT FOR FIBER - IN (2) 4" SCH. 40 PVC CONDUIT BELOW GRADE, SCH. 80 PVC ABOVE GRADE. INSTALL IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES. LENGTH PER PLAN.
- INSTALL UNDERGROUND CONDUIT FOR ELEC. - IN (1) 4" SCH. 40 PVC CONDUIT BELOW GRADE, SCH. 80 PVC ABOVE GRADE. INSTALL IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES. LENGTH PER PLAN.
- THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION OF ALL EXISTING ABOVE GROUND AND UNDERGROUND IMPROVEMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RELOCATION OR REPAIR OF EXISTING IMPROVEMENTS DUE TO DAMAGE CAUSED DURING CONSTRUCTION.
- ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY COMPANIES, HAVING JURISDICTION OVER THIS PROJECT.
- CONTRACTOR SHALL COORDINATE OVERHEAD POWER AND FIBER WITH UTILITY PROVIDERS PRIOR TO BIDDING PROJECT.
- ALL CONDUIT BENDS SHALL BE 36" RADIUS MINIMUM, HORIZONTAL & VERTICAL.
- INSTALL NATURAL GAS LINE FROM NEW METER TO NEW GENERATOR.

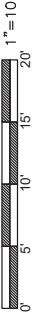
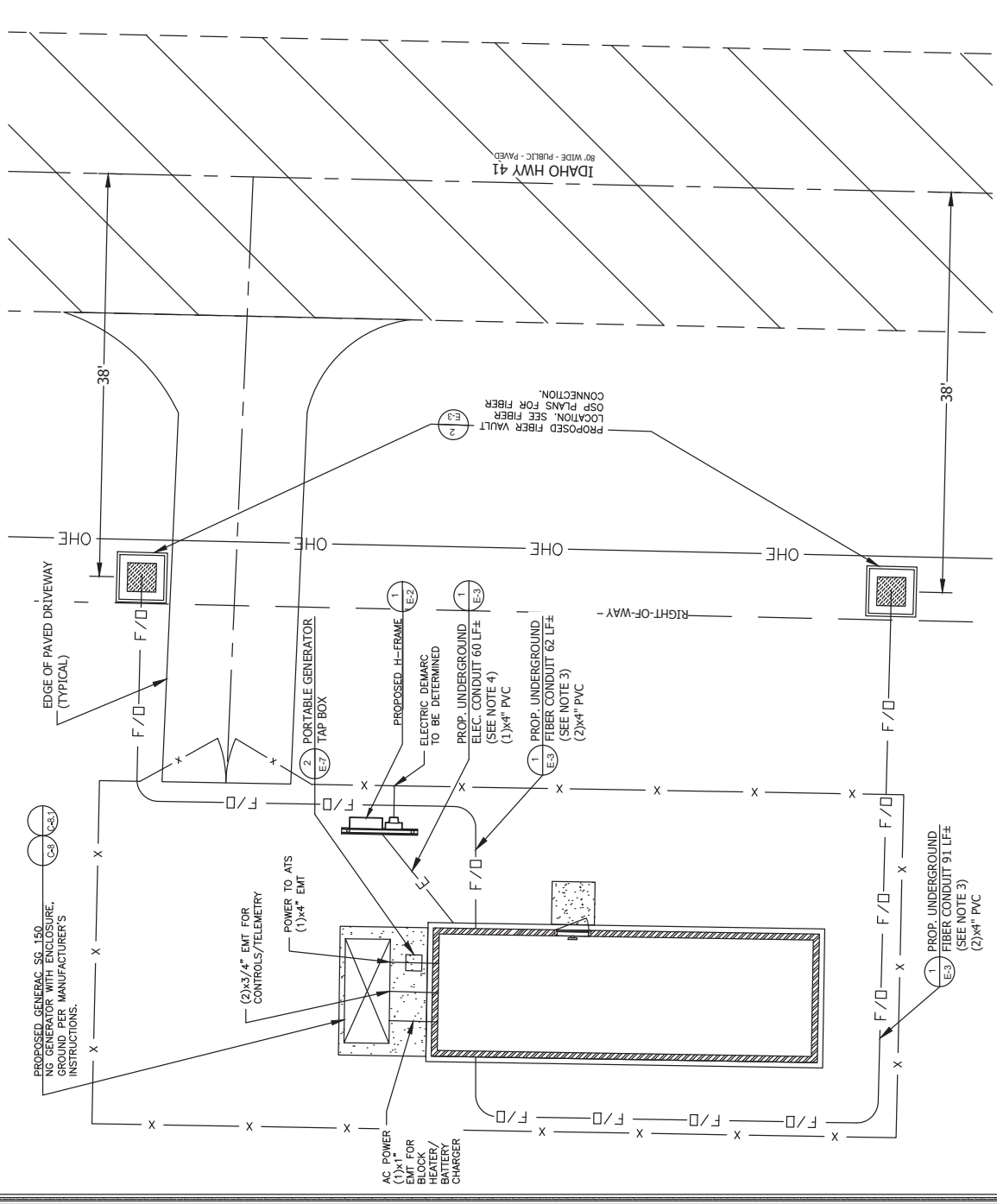
THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED WITHIN THIS DESIGN PACKAGE. DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING.

LEGEND

— X —	NEW CHAIN LINK FENCE
— F/O —	NEW FIBER CONDUIT
— E —	NEW POWER CONDUIT



CALL IDAHO DIG LINE
811 or 800-342-1585
CALL 3 WORKING DAYS
BEFORE YOU DIG!



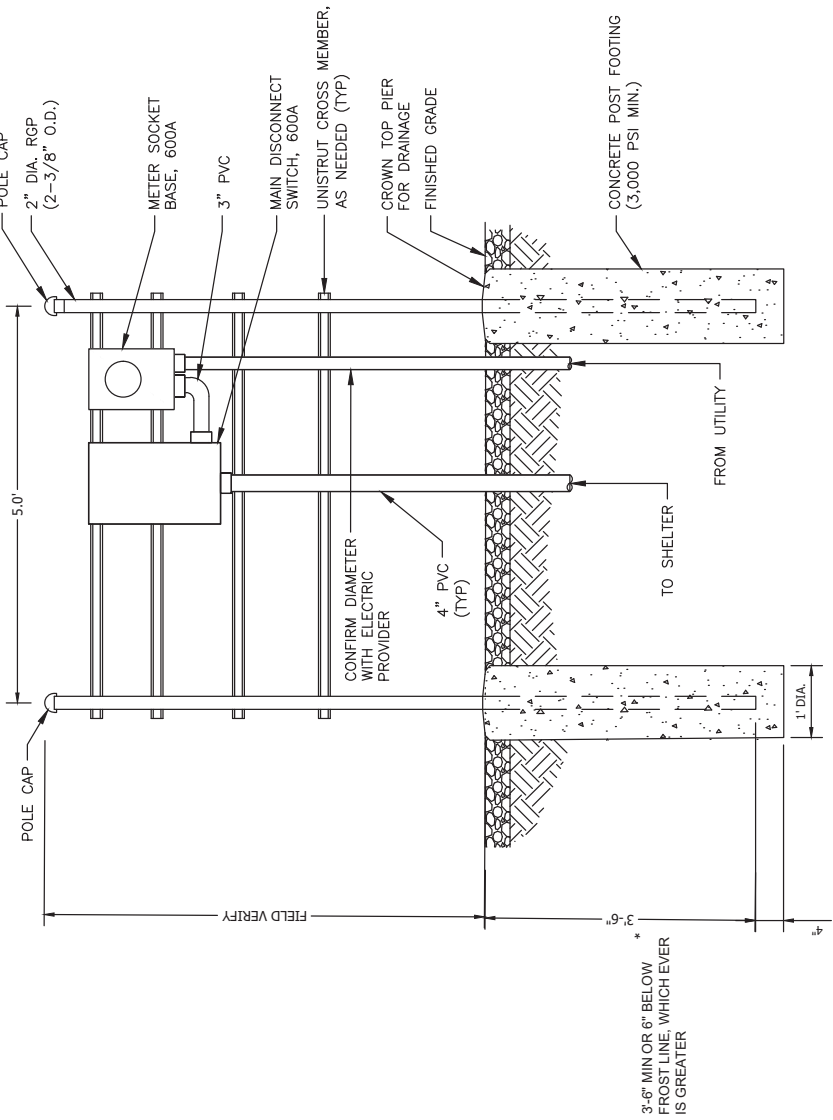
PROJECT NO:	00167912	
CHECKED BY:	MB	
ISSUED FOR:		
REV	DATE	DESCRIPTION
-	-	-
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MTC ENGINEERING

H-FRAME DETAIL

SHEET NUMBER:
E-2

- NOTES:**
1. CONTRACTOR TO FIELD LOCATE THE H-FRAME AS SHOWN ON SITE PLAN.
 2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
 3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD CONNECTIONS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
 4. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
 5. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT APPLICABLE LOCAL CODES. CONTRACTOR SHALL FIELD COORDINATE, ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.



1 H-FRAME DETAIL
 SCALE: NTS

N.T.S.

ISSUED FOR:	
REV	DATE DESCRIPTION
1	08/21/2023
2	09/21/2023
3	10/21/2023
4	11/21/2023
5	12/21/2023
6	01/21/2024
7	02/21/2024
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9	04/21/2024
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11	06/21/2024
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371	06/21/2054
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376	



MTC ENGINEERING
 A MTC CONSULTING ELLC COMPANY
 346 INVERNESS DR. SOUTH
 BUILDING A, SUITE 100
 ENGLEWOOD, UT 84095
 TEL: 720-344-5577



RMWT
 REGISTERED PROFESSIONAL ENGINEER
 22 NORTH SHEEP LANE
 NEEHI, UT 84648
 PH: (435) 629-4628

BLANCHARD
WCHYNN1048.2POPBCHD1
 3262 HWY. 41
 BLANCHARD, ID 83804
 PROPOSED FIBER HUB

PROJECT NO: G0167912
 MB
 CHECKED BY:

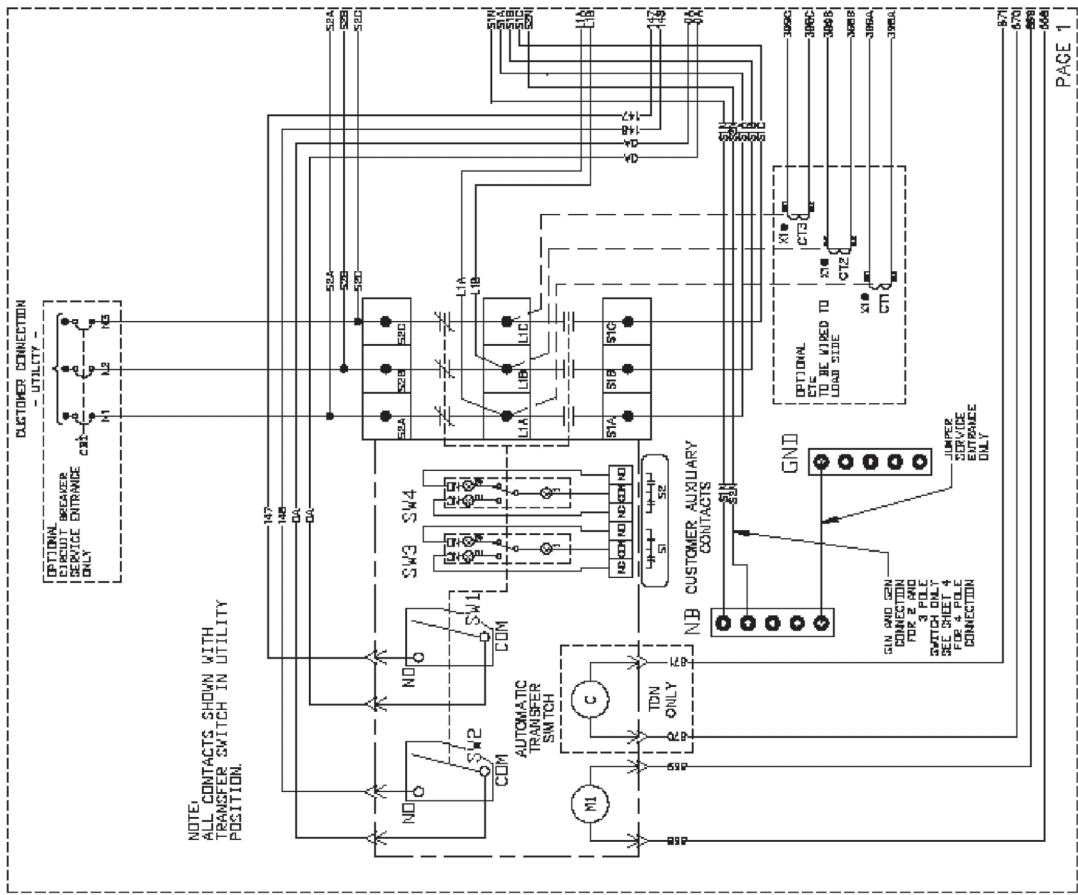
ISSUED FOR:		
REV	DATE	DESCRIPTION

MTC ENGINEERING

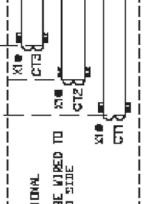
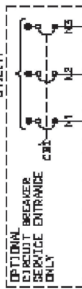
600 amp AUTOMATIC
 TRANSFER SWITCH

SHEET NUMBER:
E-6

GROUP G



NOTE:
 CONTACTS SHOWN WITH
 TRANSFER SWITCH IN UTILITY
 POSITION.



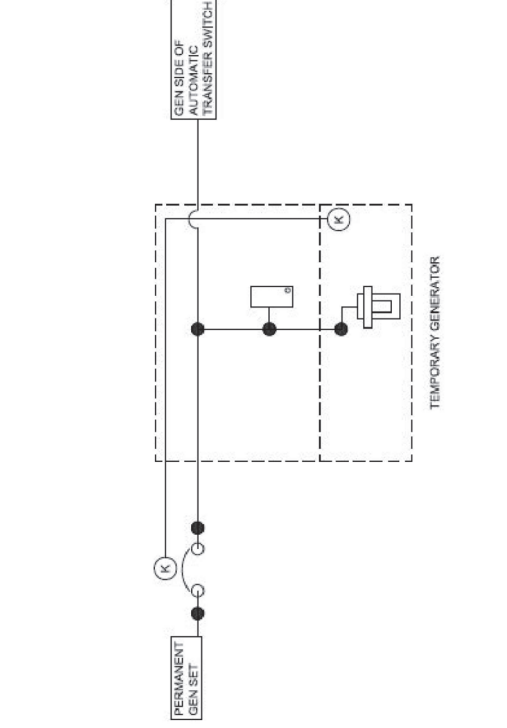
REVISION: EN-0064-07-3
 DATE: 2/23

PAGE 1 OF 6

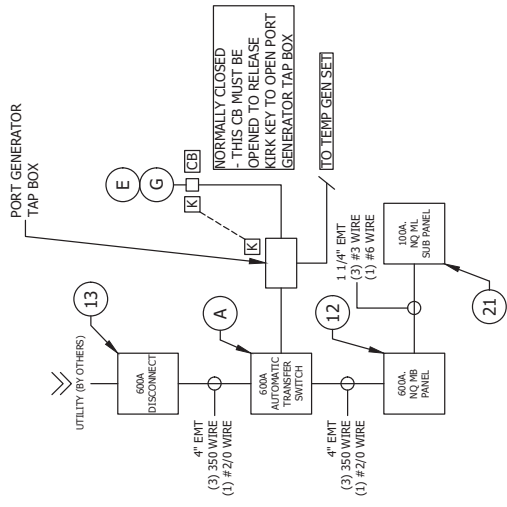
PAGE 1
 SCHEMATIC - DIAGRAM
 TX CONTROL 600A TRANSFER SW
 DRAWING #: A000047556

TRANSFER SWITCH WILL BE LOCATED IN THE SHELTER

DETAILS PROVIDED BY RMWT/IG



2 GENERATOR LINE DIAGRAM
 SCALE: N.T.S.



1 WIRING SCHEMATIC
 SCALE: N.T.S.

DETAILS PROVIDED BY RMWT/JIG

REFER TO THE COMPLETE THERMOBOND SHELTER PLAN (DWG NO. TBB1644) FOR ADDITIONAL INFORMATION

MTC ENGINEERING
 A MTC CONSULTING LLC COMPANY
 346 INVERNESS DR. SOUTH
 BUILDING A, SUITE 100
 ENGLAND, UT 84002
 TEL: 720-344-5577

ARMAT
 22 NORTH SHEEP LANE
 NEPHI, UT 84648
 PH: (435) 629-4628

BLANCHARD
WCHYNN1048.2POPBCHD1
 32622 HWY 41
 BLANCHARD, ID 83804
 PROPOSED FIBER HUB

PROJECT NO:	00167912	
CHECKED BY:	MB	
ISSUED FOR:		
REV	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-

MTC ENGINEERING

GROUNDING PLAN

SHEET NUMBER:
G-1

#	GROUNDING NOTES
1	COPPER CLAD GROUND ROD (TYP) 5/8"x10" LONG
2	5/8"x10" ROD W/ INSPECTION WELL (TYP)
3	#2 SOLID TINNED COPPER GROUND WIRE
4	#2 TINNED INSULATED LEAD TO SHELTER GROUND BAR
5	GROUND LEAD TO H-FRAME AND ALL EQUIPMENT ON H-FRAME (TYP)
6	GROUND LEAD TO GENERATOR

GROUNDING NOTES:

- ALL GROUNDING CONNECTIONS SHALL BE MADE WITH THOMAS AND BETTS KOPR (TM OF JET LUBE, INC.) THERE IS NO EQUIVALENT FOR THIS ANTI-OXIDATION COMPOUND. NO OTHER COMPOUND WILL BE ACCEPTED. COAT ALL WIRES BEFORE LUGGING. COAT ALL SURFACES BEFORE CONNECTING. ALL DISSIMILAR METAL CONNECTIONS SHALL INCORPORATE A "DRAGON TOOTH WASHER" BETWEEN THE LUG AND THE METAL.
- CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE INSTALLED SYSTEM. CONTRACTOR SHALL CONDUCT A "SITE RESISTANCE TO EARTH GROUNDING TESTING": INSTALLED SYSTEM SHALL ACHIEVE A GROUND RESISTANCE OF 5 OHMS.
- TEST SHALL BE WITNESSED BY AN OWNER REPRESENTATIVE, IF REQUIRED.
- BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED IN PVC CONDUIT OR PLACED ON STAND OFF SUCH THAT NO CONTACT BETWEEN DIFFERENT MATERIALS MAY OCCUR.
- CONNECTION OF COPPER TO GALVANIZED MATERIALS SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS SHALL BE USED FOR CONNECTION OF COPPER CONDUCTORS TO GALVANIZED MATERIALS.
- WHEN COPPER CONDUCTORS ARE CONNECTED TO ALUMINUM SURFACES OR CONDUCTORS, LUGS OR SPLIT BOLTS MARKED WITH THE DESIGNATION AL/CU SHALL BE USED.
- REFER TO SHEET G-3 FOR FENCE GROUNDING DETAILS.

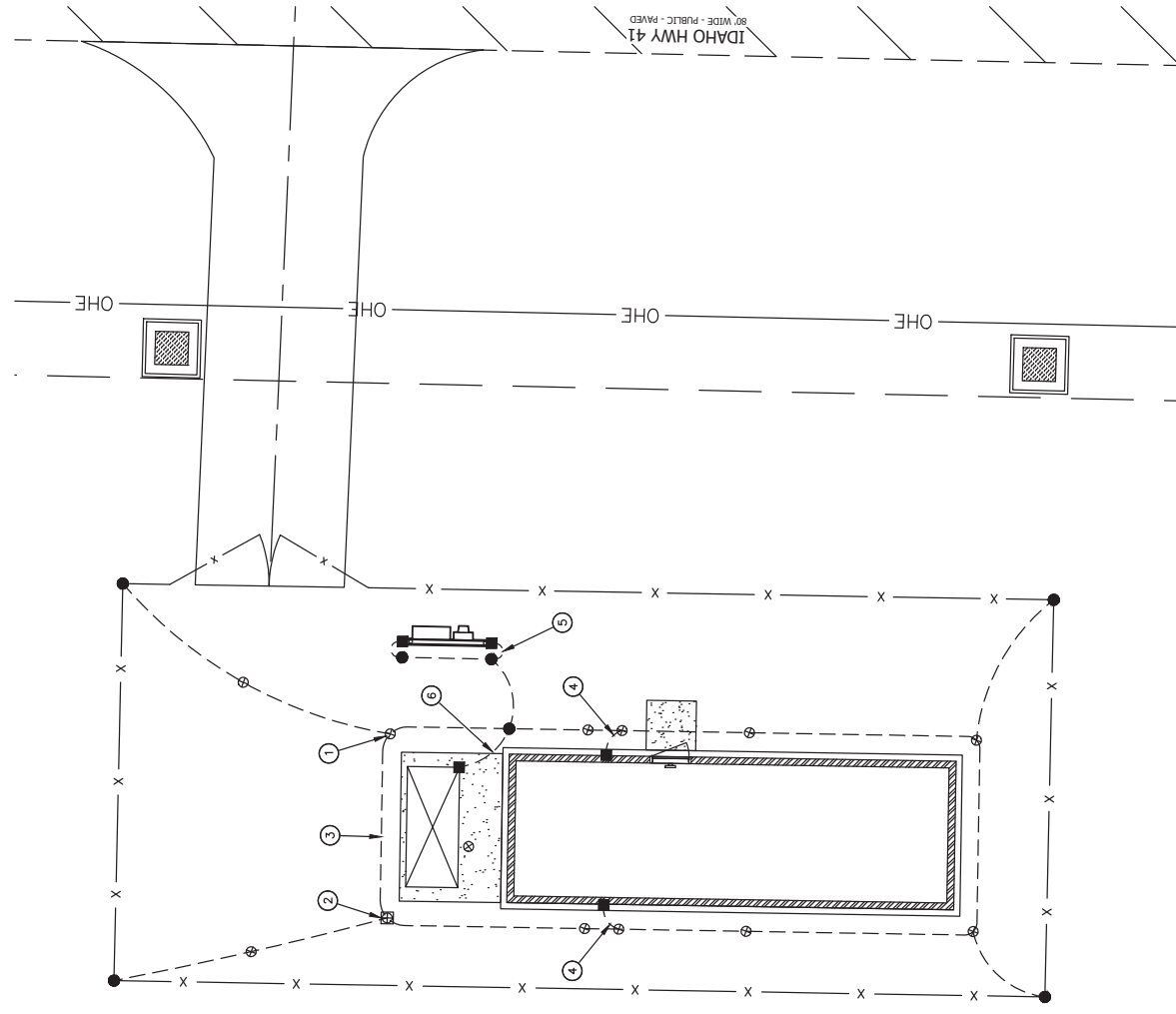
GROUNDING LEGEND

- 5/8"x10" COPPER CLAD GROUND ROD WITH INSPECTION WELL (FIELD VERIFY LOCATION WITH MANAGER)
- 5/8"x10" COPPER CLAD GROUND ROD AT 16'-0" MAX CENTERS
- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CAD WELD)
- SOLID COPPER TINNED WIRE UNLESS NOTED OTHERWISE

THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED WITHIN THIS DESIGN PACKAGE. DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING.

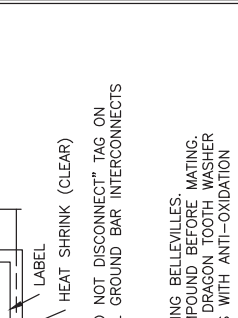


CALL IDAHO DIG LINE
 811 or 800-342-1585
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!

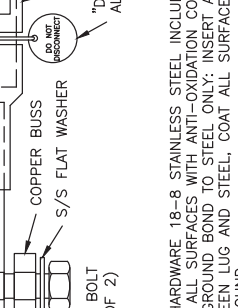


GROUNDING NOTES:

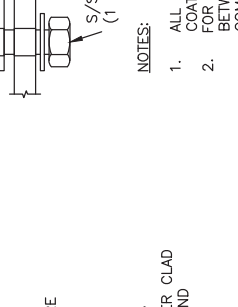
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, EQUIPMENT AND FENCE RODS SHALL BE EXOTHERMIC ("COWWELDS") WHERE GROUND WIRE IS GALVANIZED OR GALVANNEED. WHERE SPRAY GALVANIZED WITH GALVANIZING PASTE.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE MACHINED OR DRILLED THROUGH THE ENTIRE LENGTH OF THE GROUND BAR (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING RINGS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST ROUTE. POSSIBLE BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- ALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GROUND BONDING SHALL BE EXOTHERMIC COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC REMAINING GROUNDING CONNECTIONS SHALL BE MECHANICAL CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS OR GROUND RINGS OR A COMBINATION OF THE TWO. GROUND RODS SHALL BE 5/8" DIA. COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MINIMUM OF 15' APART, AND A MINIMUM OF 6' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBlique ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICD 9000 SERIES BULLETIN #441.
- GROUNDING BONDING RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE EXOTHERMIC WELDED COPPER WIRE. ALL EXTERIOR GROUND BARS SHALL BE TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (M OF JET LUBE INC.) PRIOR TO BOLLING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY EQUIPMENT TO GROUND BARS, APPLY A 3/4" PVC SLEEVE FROM 1" BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. AFTER GROUNDING CONNECTION, APPLY APPROPRIATE ANTI-OXIDATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (ETS, CABLE BRIDGE, PIC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCE, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.



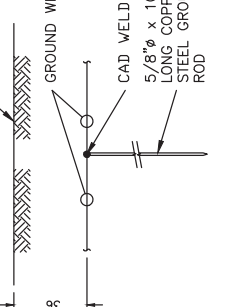
1 GROUNDING ROD DETAIL
SCALE: N.T.S.



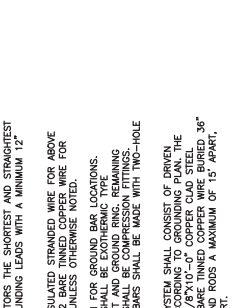
2 TYPICAL GROUND BAR CONNECTION DETAIL
SCALE: N.T.S.



3 CADWELD GROUNDING CONNECTION DETAILS
SCALE: N.T.S.



4 GENERAL LUG DETAIL
SCALE: N.T.S.



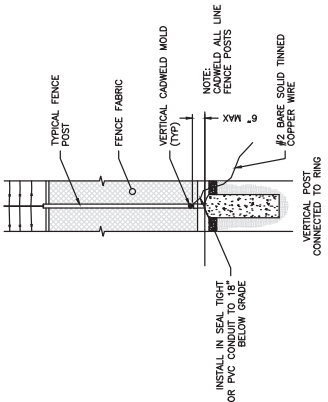
5 GROUNDING STRAP WEATHERPROOFING DETAIL
SCALE: N.T.S.

- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING. FOR GROUND BOND TO STEEL ONLY: INSERT DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND. LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.
- GROUND ROD SHALL BE DRIVEN VERTICALLY. NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
- SCALE: N.T.S.
- SCALE: N.T.S.
- SCALE: N.T.S.

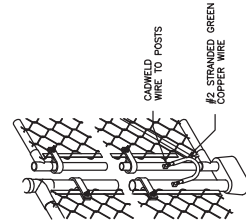
ISSUED FOR:	
REV	DATE

MTC ENGINEERING

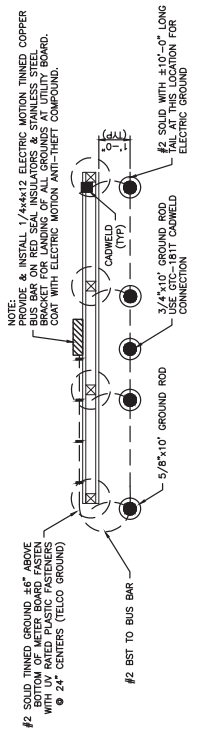
GROUNDING DETAILS



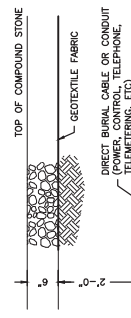
3 TYPICAL FENCE POST GROUNDING
 SCALE: N.T.S.



4 GATE GROUNDING DETAIL
 SCALE: N.T.S.



1 METER BOARD UTILITY GROUNDING DETAIL
 SCALE: N.T.S.



- INSTALLATION**
1. THE TAPE SHALL BE LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER ROAD TYPE SURFACE CONDITIONS AND SHALL BE COVERED WITH THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.
 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8\"/>
4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:
- | | |
|-----------------------------|---------|
| RED | CAUTION |
| BURIED ELECTRIC LINE BELOW | CAUTION |
| ORANGE | CAUTION |
| BURIED TELEPHONE LINE BELOW | CAUTION |

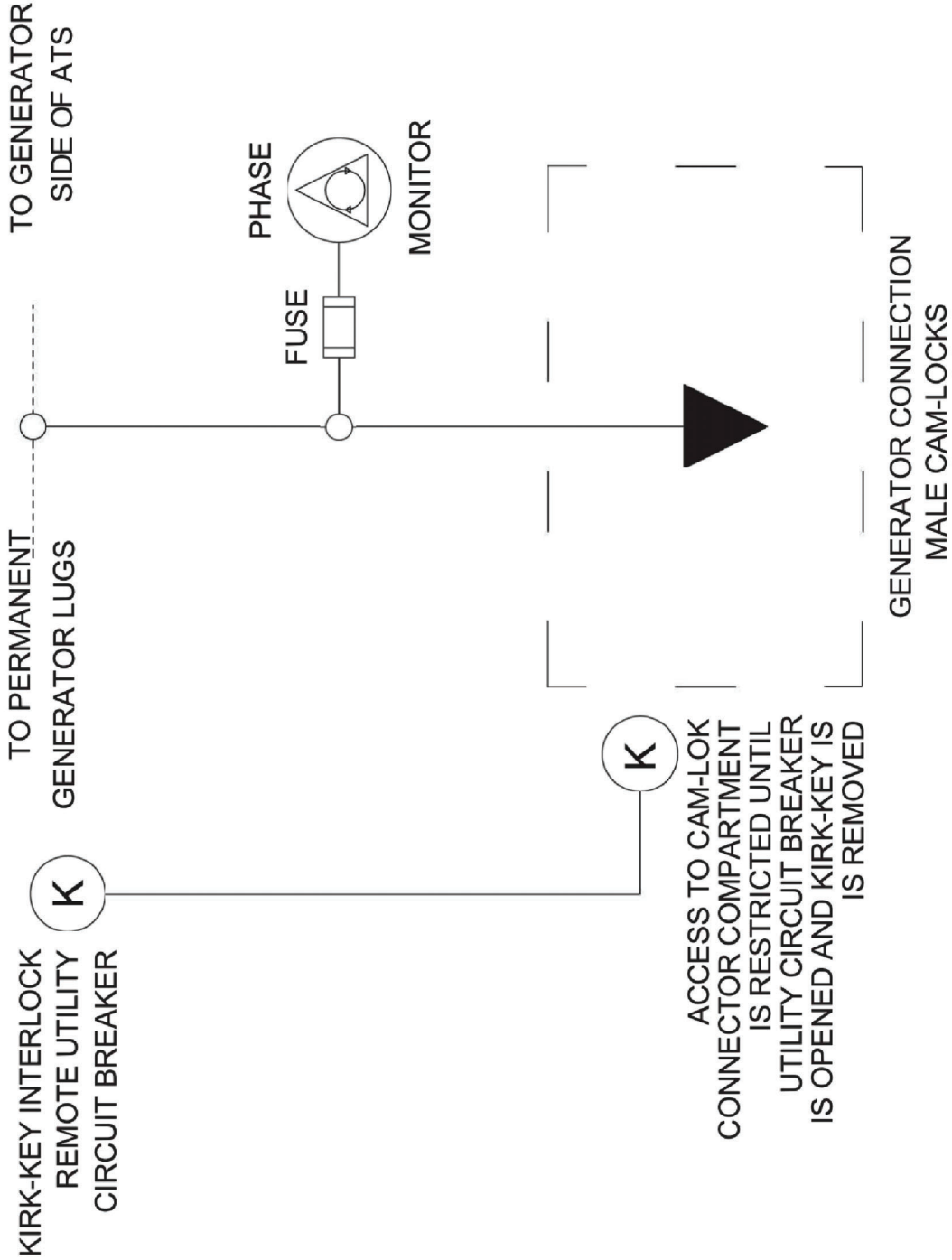
2 STANDARD MARKER TAPE DETAIL
 SCALE: N.T.S.

VOLTAGE(S):
240/120VAC
1Ø, 3 WIRE

AMPERAGE(S):
600A

SCCR:
35KAIC

FREQUENCY:
60HZ



Mailing Address:
13301 W. 43rd Dr.
Golden, CO 80403
This drawing is considered company confidential and property of Kratos Industries, LLC and shall not be used without written consent.

REV	DATE	BY	DESCRIPTION
01	8/16/22	JR	SUBMIT FOR CUSTOMER APPROVAL

Title:
1 LINE DIAGRAM, KAMBOX, SINGLE PURPOSE

Drawing No:
KORD-XXXXX
Project Code:
-
Sht. 1 of 1

NOT FOR CONSTRUCTION



Mailing Address:
13301 W. 43rd Dr.
Golden, CO 80403

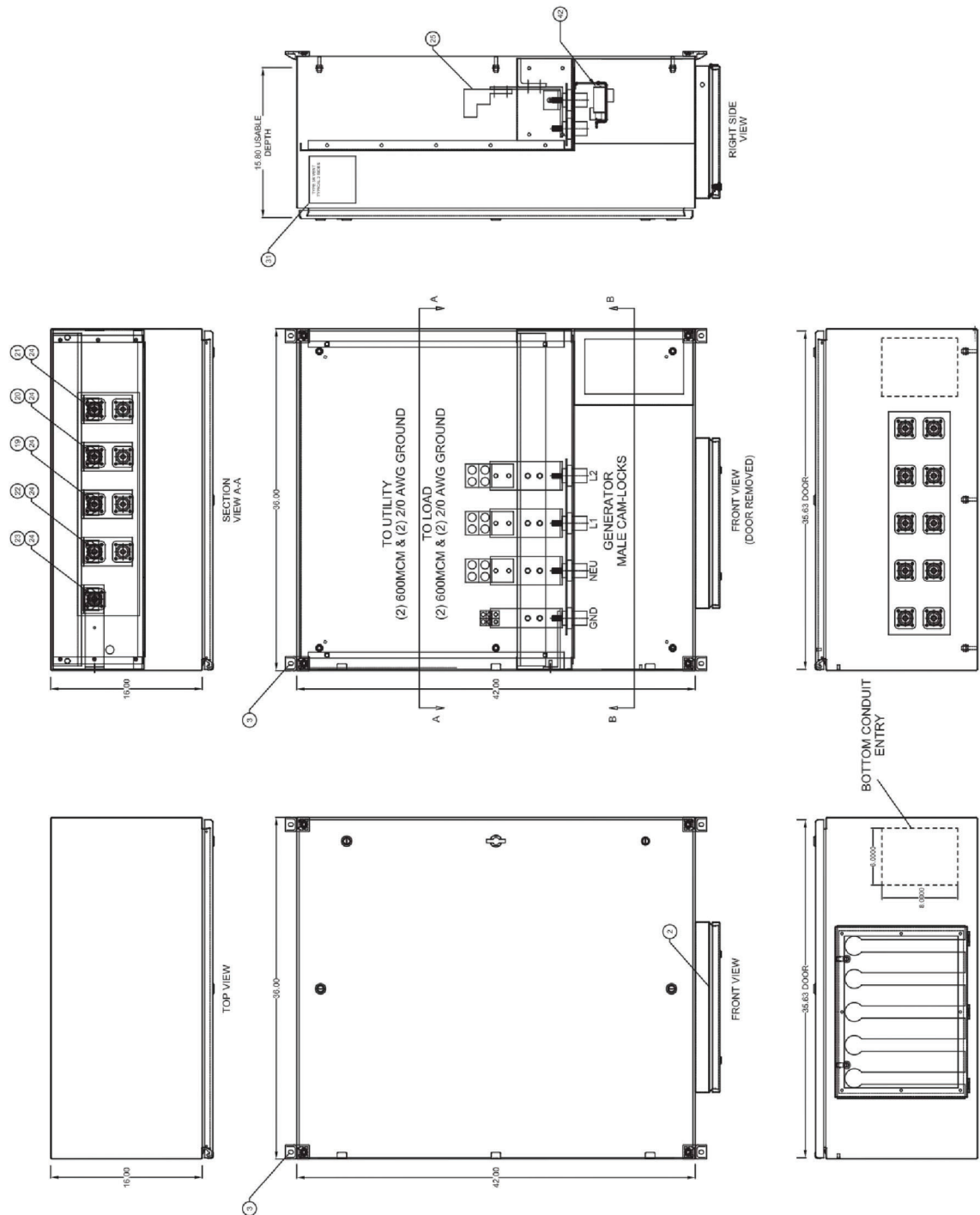
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REV	DATE	BY	DESCRIPTION
01	5/23	JR	SUBMIT FOR CUSTOMER APPROVAL

Title: OUTLINE, 600A KAMBOX, SINGLE PURPOSE, TYPE 3R,
KIRK KEY

Project: KORD-00XXXX

Drawing No: KORD-00XXXX
Project Code:



MAX VOLTAGE: 240/120VAC 1Ø, 3 WIRE
35KAIC, 60HZ, 600A, TYPE 3R PAINTED
ANSI-61 GREY SMOOTH



Mailing Address:
13301 W. 43rd Dr.
Golden, CO 80403

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confidential and property of Kratos
Industries, LLC and shall not be used
without written consent.

REV	DATE	BY	DESCRIPTION
01	5/6/23	JR	SUBMIT FOR CUSTOMER APPROVAL

Title: OUTLINE, 600A KAMBOX, SINGLE PURPOSE, TYPE 3R,
KIRK KEY
KORD-00XXXX
Project: KORD-00XXXX

Drawing no:
KORD-00XXXX
Project Code:
Sht. 2 of 2

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	MANUFACTURER PART #	DESCRIPTION
1	1	SAGINAW	SCE-42EL3616LP	ENCLOSURE, 42"H X 36"W X 16"D, TYPE 3R, ANSI-61 GREY
2	1	SAGINAW	SCE-HA1814	HINGED COVER
3	1	SAGINAW	SCE-ELMFK4	MOUNTING EARS
5	1	KRATOS	CUSTOM	UPPER LEFT SIDE SUBPANEL
6				
7	2	KRATOS	CUSTOM	DEAD FRONT MOUNTING BRACKET 1
8	2	KRATOS	CUSTOM	DEAD FRONT MOUNTING BRACKET 2
9	1	KRATOS	CUSTOM	DEAD FRONT
10	1	KRATOS	CUSTOM	ALUMINUM BARRIER
11	1	KRATOS	CUSTOM	ANTI-THEFT CABLE PLATE ASSEMBLY
12	1	KRATOS	CUSTOM	GROUND BAR JUMPER
13	5	KRATOS	CUSTOM	COPPER BUS, 3"W, 1/4" THICK
14	1	MONTE	2886	GLASTIC ANGLE, 3"x3"x3/8"
15	1	MONTE	TBD	GLASTIC FLAT, 1/8" THICK
16				
17	1	KRATOS	CUSTOM	BOTTOM/CONDUIT ACCESS SHROUD
19	2	LEVITON	16R23-UH	CAM RECEPTACLE, MALE, BROWN
20	2	LEVITON	16R23-UO	CAM RECEPTACLE, MALE, ORANGE
21	2	LEVITON	16R23-UY	CAM RECEPTACLE, MALE, YELLOW
22	2	LEVITON	16R23-UW	CAM RECEPTACLE, MALE, WHITE
23	1	LEVITON	16R23-UG	CAM RECEPTACLE, MALE, GREEN
24	9	LEVITON	16S31-UCL	CAM RECEPTACLE COVER, CLEAR
25	4	LUGS DIRECT	600T-4	LUG, (4) 2-600MCM, (2) 3/8" BOLTS
26	2	LUGS DIRECT	252/0-TP-STK2-36-40-HEX	LUG, (2) 14-2/0 AWG, 5/16" BOLT
27				
28				
29				
30				
31				
32	2	FANDIS	FF12N53	EXHAUST, TYPE 3R
33				
34				
35				
36				
37				
38				
39				
40				
41				
42	1	KIRK KEY	KDLO--10	BRASS DOOR LOCK 1 CYLINDER
43	1	KIRK KEY	KFLO60010T	BRASS DOOR BOLT LOCK 1 CYLINDER
44				
45				
46				

MAX VOLTAGE: 240/120VAC 1Ø, 3 WIRE
35KAIC, 60HZ, 600A, TYPE 3R PAINTED
ANSI-61 GREY SMOOTH

- BUILDING INTERIOR
- OZARK
 - GREY
 - OTHER

PROJECT
INTERMOUNTAIN INFRASTRUCTURE GROUP

JOB NO.

2212-473

BLANCHARD

IDAHO

SIZE

12'W. OD X 36'L. OD X 9'H. ID

LAST REVISED: 6/13/23

REVISION NUMBER: 6

FOR SIGNATURE OR STAMPED APPROVAL:

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Blanchard, ID 83417
www.thermobond.com 574.295.1214
1103 W. Main St
Erie, PA 16512
805.556.2090

IDAHO
12'W. OD X 36'L. OD X 9'H. ID
SHELTER
Drawing Index

TBB1644
Infrastructure Group
Intermountain
DRAWING NUMBER

PROJECT NAME: Intermountain Infrastructure Group
DRAWING NUMBER: TBB1644
DRAWN BY: SAR
DATE: 6/13/23
SCALE: 1/1"=1'
SHEET: 1 of 16

<u>DRAWING TITLE</u>	<u>DRAWING NUMBER</u>
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CABLE LADDER & CEILING LAYOUT	TBB1644 PAGE 5 OF 16
ELEVATION VIEWS	TBB1644 PAGE 6 OF 16
DOOR DETAIL	TBB1644 PAGE 7 OF 16
ELECTRICAL PANEL	TBB1644 PAGE 8 OF 16
ELECTRICAL SUB PANEL	TBB1644 PAGE 9 OF 16
CORNER CONSTRUCTION DETAILS	TBB1644 PAGE 10 OF 16
ROOF CONSTRUCTION DETAILS	TBB1644 PAGE 11 OF 16
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BUILDING SKID DETAILS	TBB1644 PAGE 14 OF 16
BUILDING FOUNDATION ASSEMBLY	TBB1644 PAGE 15 OF 16
LIFT DETAIL	TBB1644 PAGE 16 OF 16

USAGE _____ UNMANNED SHELTER
 CONSTRUCTION TYPE _____ VB
 OCCUPANCY GROUP _____ U
 STORIES _____ 1
 ULTIMATE WIND SPEED _____ 115 MPH VULT
 FLOOR LOAD _____ 200 PSF
 ROOF LOAD _____ 70 PSF
 FLOOR AREA _____ 432 SQ.FT.
 BUILDING HEIGHT _____ 11'-3"
 SEISMIC DESIGN _____ CAT D
 WIND EXPOSURE _____ CAT C

NOTES:
 PROPER DOOR FUNCTION WAS VERIFIED AT THE FACTORY. HOWEVER, DUE TO BUILDING MOVEMENT DURING SHIPPING, IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER DOOR OPERATION, AND ADJUST AS NECESSARY, AFTER THE BUILDING IS SET AND ANCHORED.

ITEMS SHIPPED LOOSE

- HOLD DOWN PLATES, WASHERS, AND NUTS
(24) 699-982 BRNZ
(24) 299-0007 HEX NUT
(24) 299-0016 FLAT WASHER
(24) 299-0018 LOCK WASHER
(2) 102-0072 FLOOR INSERT
(6) 101-510 LIFTING PIPES

ELECTRICAL NOTES

- ALL WIRING SHALL BE IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRIC CODE.
- ALL ELECTRICAL MATERIALS SHALL BE U.L. LISTED AND CLASSIFIED AS SUITABLE FOR THE PURPOSE SPECIFIED.
- ALL WIRING SHALL BE SURFACE MOUNTED IN A RACEWAY OR EMT CONDUIT USING APPROVED CONNECTORS, COUPLINGS, AND CLAMPS. ALL CONDUIT SHALL BE ANCHORED IN PLACE AT APPROXIMATELY EVERY 3 FT WITHIN BOXES AND 4 FT ON RUNS.
- ALL WIRING SHALL BE A STRANDED UNLESS OTHERWISE NOTED, THHN OR THWN COPPER, NO SMALLER THAN #12.
- ALL WIRE RUNS SHALL BE CONTINUOUS.
- LOW VOLTAGE WIRE MAY BE STRANDED.
- ALL WIRING SHALL BE TESTED AND INSPECTED PRIOR TO SHIPMENT.
- GREEN GROUND CONDUCTORS SHALL BE RUN TO ALL OF THE BUILDINGS A/C POWERED DEVICES. CONDUIT SHALL NOT BE USED AS THE SOLE SOURCE OF GROUND.
- ALL ALARM DEVICES WIRING SHALL BE RUN IN ITS OWN CONDUIT TO THE ALARM CABINET.
- ELECTRICAL CONDUIT COUPLERS WILL BE STANDARD SCREW TYPE FITTINGS.
- MINIMUM EMT CONDUIT SIZE SHALL BE TRADE SIZE 16 (1 1/2")

CONSTRUCTION NOTES

- FLOOR TO HAVE 2X6 JOISTS ON 12" CENTERS
- FLOOR TO HAVE R-21 FIBERGLASS INSULATION
- WALLS TO HAVE 2X4 STUDS ON 12" CENTERS
- WALLS TO HAVE R-15 FIBERGLASS INSULATION WITH R-7.5 RIGID FOAM
- ROOF TO HAVE 2X12 TRUSSES ON 12" CENTERS
- ROOF TO HAVE R-38 SPRAY IN FOAM INSULATION APPLIED TO UNDERSIDE OF FR DECK PANEL A
- ROOF TO BE FR DECK PANEL A
- PERIMETER SKID TO BE PAINTED WITH DARK BRONZE RUST PREVENTATIVE PAINT
- ALL EDGING AND TRIM TO BE DARK BRONZE IN COLOR
- 10 10 1/2" X 1 1/2" 18 GAUGE GALVANIZED STRAPS TO BE INSTALLED ON ALL ROOF RIM JOISTS AND WHERE INDICATED ON FLOOR RIM JOISTS (SEE SKID). STRAPS ARE TO BE FASTENED WITH 1 1/2" X .086 SMOOTH BALLISTIC NAILS.
- DOUBLE FLOOR JOISTS TO BE INSTALLED EVERY 4'.

REVISION LOG

DATE	DRAFTER	REVISION
2/13/2023	SAR	REMOVE ITEM #8, TWISTLOCKS; RECTIFIER BREAKERS WERE TWISTLOCK. ADD SECOND WIREWAY FOR WIRING TO DC PLANT.
2/15/2023	SAR	FLIP LAYOUT, MOVE FENCE CLOSER IN & REMOVE GATE, REMOVE FUTURE HVAC FRAMING ON SIDE WALL.
4/30/2023	SAR	ADD CUSTOMER SUPPLIED ATS.
5/10/2023	SAR	REMOVE COLO EXTERIOR DOOR & RELOCATE FENCE W/DOOR.
5/17/2023	SAR	ADD 1000A, 18 POS. 1PH SUB PANEL, WALL 12" O.C. WAS 16" O.C.
5/23/2023	SAR	INTEGRATION, ELECTRICAL REVIEW UPDATES.

DAHAO
12W, OD x 36L, OD x 9H, ID
SHELF TIER
Revisions & Notes

PROJECT NAME: **Intermountain Infrastructure Group**
DRAWING NUMBER: **TB1644**

PROJECT NUMBER: 2212-473	SCALE: 1/1X17	SHEET: 2 of 16
DRAWN: 1/10/2023	REVIEWED: 6/13/23	DRAWN BY: SAR



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BILL OF MATERIALS				
NO.	QTY	TBB PART #	MFG PART #	DESCRIPTION
1.	1	099-1447		3' X 7' STEEL INSULATED DOOR ADJ. FRAME W/BAKED
		099-1530		ON ENAMEL PAINT W/S.S. BALL BEARING HINGES W/
				NON REMOVABLE PINS, RIGHT HAND REVERSE W/
				KABA PUSHBUTTON PASSAGE
1	099-0045			HYDRAULIC DOOR CLOSER WITH HOLD OPEN ARM
1	099-0205/099-0936			INTERIOR PULL HANDLE
1				NOT USED
2.				DOOR AWNING 3070, BRONZE
3.	1	199-0016		LIGHT SWITCH, DOUBLE
4.	1	500-104		EMERGENCY EXIT SIGN, DUAL HEAD
5.	1	500-0177		INTERIOR LED LIGHT W/PHOTOCELL, 12W
6.	1	500-085		DUPEX RECEPTACLES 20A.
7.	14	800-101		NOT USED
8.				4' LED INTERIOR LIGHT FIXTURE, 34W
9.	10	500-712		GFI RECEPTACLE 20A. W/WEATHERPROOF COVER
10.	2	800-100		BARD A/C, 5 TON, 230/208V, 1PH, 5KW, 11 EER W/ECON.
11.	2	899-856	W60AC-A05ZPXXXXJ	NQ MB PANELBOARD, 600A, 1PH, 120/240V, 42 POS.
12.	1	200-1529		PANELBOARD ENCLOSURE BOX
			MH68D9	
			NC68VSHR	
13.	1	200-1550		MAIN BREAKER DISCONNECT, 600A, 1PH
14.	2	102-0072		FLOOR INSERT, A=8", B=12", C=13"
15.	2	915-054		20" MASTER GROUND BAR
16.	A/R	900-186		12" CABLE LADDER
17.	A/R	A/R		4" WIRE RACEWAY
18.	1	499-003		TELCO BOARD, 4' X 8' X 3/4"
19.	1	101-0816		FENCE DOOR, SLIDING WITH CYLINDER LOCK
2	101-0811			FENCE PANEL, 1 1/2" X 3" MESH, 8 GA. 8' W X 4' H, BLK
2	101-0812			FENCE PANEL, 1 1/2" X 3" MESH, 8 GA. 8' W X 3' H, BLK
4	101-0813			FENCE POST, 2" X 6" X 7' FLAT BASE, MED GLOSS BLK
1	101-0799			FENCE CAPPING CHANNEL, TIES POST HORZ. 96", BLK
1	101-0801			FENCE PULL HANDLE KIT
2	101-0823			FENCE PANEL CLIPS, PKG 25
20.	1	100-0084		BARD CONTROLLER, DUAL UNIT LEAD/LAG MC4002-A
21.	1	200-1473		NQ ML SUB PANELBOARD, 100A, 1PH, 120/240V, 18 POS.
1	200-1261			SUB PANELBOARD ENCLOSURE BOX
1	200-1369			SUB PANELBOARD COVER
22.	15	915-211-GRY		INT PRE-FAB BOM, 1 5/8" X 1 5/8" GRAY UNISTRUT CUT AT 16"

CUSTOMER SUPPLIED MATERIALS				
NO.	QTY	TBB PART #	MFG PART #	DESCRIPTION
A.	1	CS8985-0002	GENERAC TX SERIES	AUTOMATIC TRANSFER SWITCH, 600A, 2P, 120/240V 1PH

PROJECT NUMBER	2212-473
DRAWN	1/10/2023
SCALE	1:1X17
REVISION	NONE
DRAWN BY	6/13/23
SHEET	3 of 16

PROJECT NAME: Intermountain Infrastructure Group
DRAWING NUMBER: TB1644

IDAHO
12'W. OD X 36'L. OD X 9'H. ID
SHELL TER
Bill of Materials

HERMO BOND BUILDINGS
58120 Century Road 3
Elkhart, IN 46517
www.thermobond.com 574-295-1214



1109 W. Main St
Elk Point, SD 57025
605-356-2090
www.thermobond.com

THE PURCHASER AND ALL
OTHERS ARE HEREBY NOTIFIED
THAT THE CONTRACT AND ALL
SPECIFICATIONS AND DRAWINGS
FOR THIS PROJECT ARE THE
SOLE REFERENCE FOR THE
SCOPE AND CONTENT OF THE
WORK TO BE PERFORMED.
NO OTHER DOCUMENTS SHALL
BE USED TO INTERPRET OR
MODIFY THE CONTRACT AND
DRAWINGS UNLESS SPECIFICALLY
REFERENCED THEREIN.
THIS NOTICE APPLIES TO ALL
REVISIONS AND ADDENDUMS.

THIS DOCUMENT CONTAINS THE PROPRIETARY AND CONFIDENTIAL INFORMATION OF THERMO BOND PRODUCTS. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF THERMO BOND PRODUCTS, NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

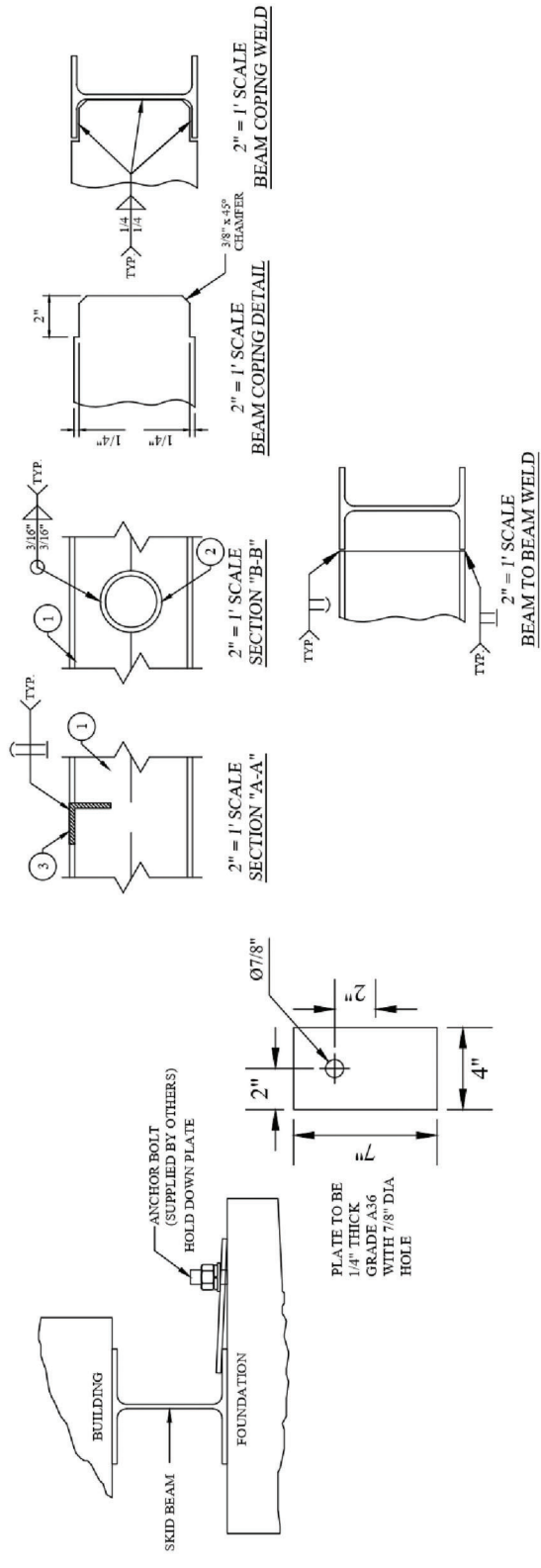
THERMO BOND PRODUCTS
 58120 County Road 3
 Elkhart, IN 46517
 574-295-1214
 www.thermobond.com

1109 W. Main St.
 Elk Point, SD 57025
 605-356-2090

Skid Details
 12" W. OD x 36L. OD x 9H. ID
 SHELTER
 IDAHO

TB1644
 PROJECT NAME: Intermountain Infrastructure Group
 DRAWING NUMBER

SHEET: 14 of 16	DRAWN BY: SAR
SCALE: 11X17	REVISION: 6/13/23
PROJECT NUMBER: 2212-473	DRAWN: 1/10/2023



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ON THIS DRAWING SHALL HAVE THE FOLLOWING TOLERANCE:
 FRACTION ± 1/8"
 ANGLE ± 2°

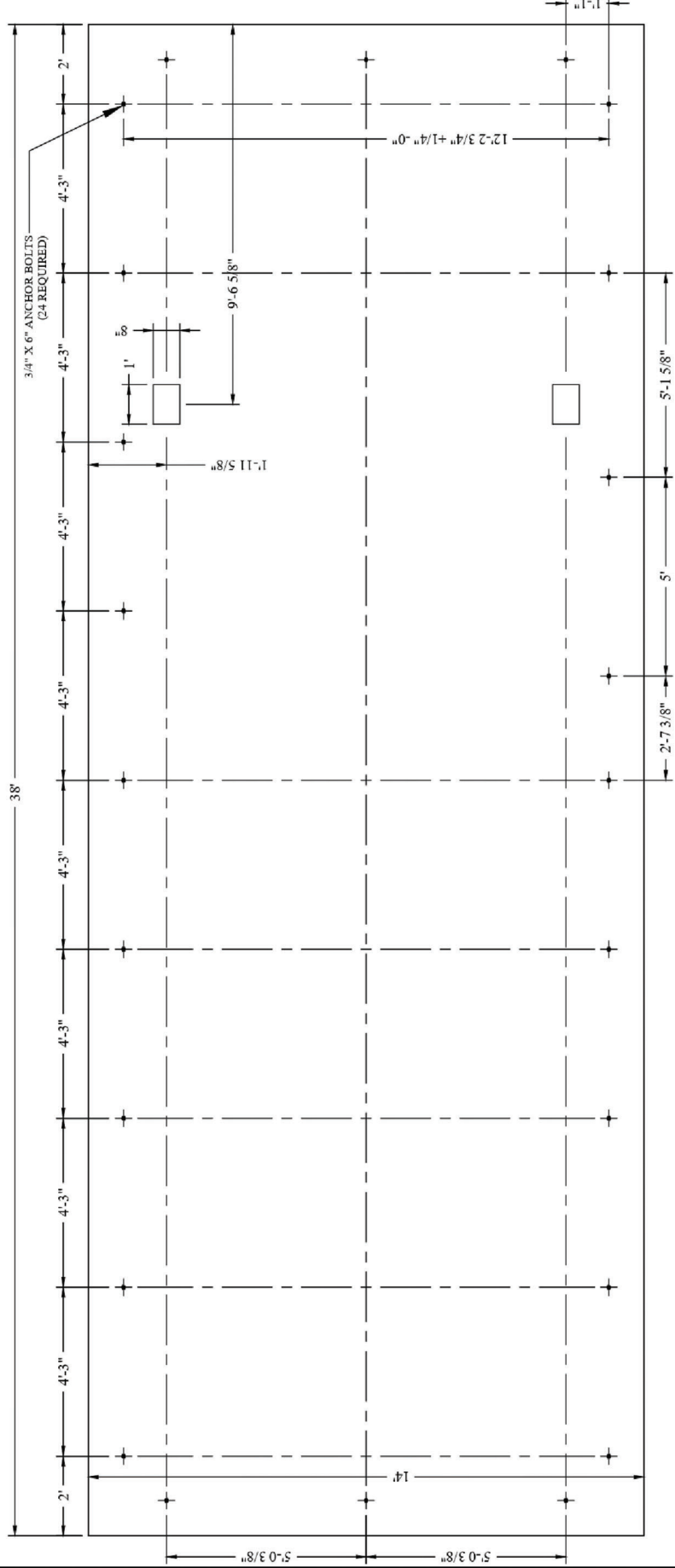
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.

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 605-356-2090

Foundation
 IDAHO
 12W, OD x 36L, OD x 9H, ID
 SHELTER

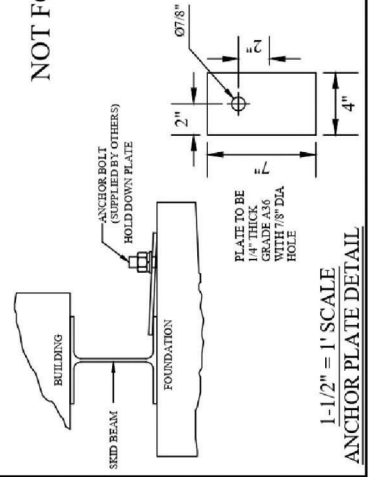
TB1644
 Infrastructure Group
 PROJECT NAME
 DRAWING NUMBER

PROJECT NUMBER	2212-473
DRAWN BY	1/10/2023
REVISIONS	6/13/23
SCALE - 1:10" = 1'-0"	
SHEET	15 of 16



PLAN VIEW

NOT FOR CONSTRUCTION. FOUNDATION DESIGN MUST BE COMPLETED BY A LICENSED PROFESSIONAL.

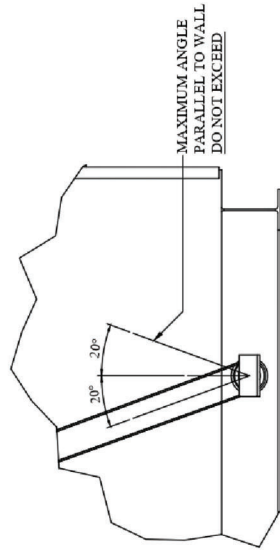
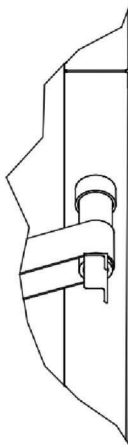
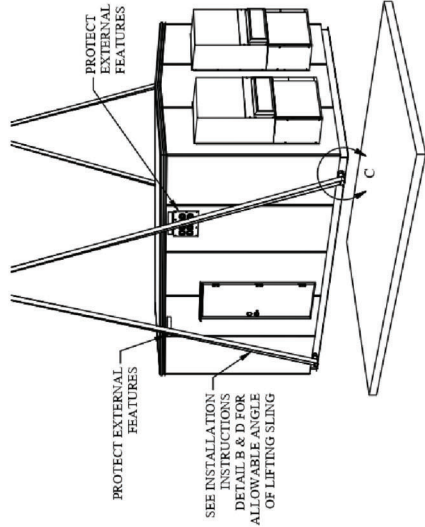
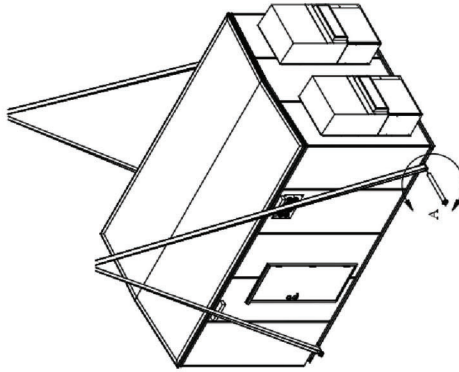
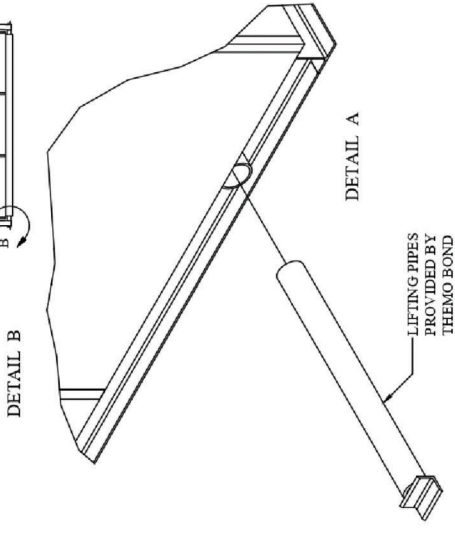
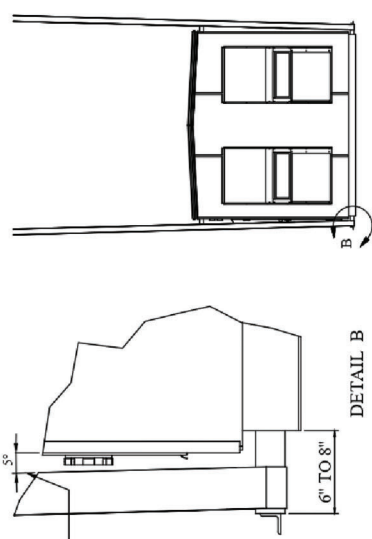


- NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH ANY LOCAL, STATE, OR FEDERAL REGULATIONS.
 2. FOUNDATION MUST SUPPORT THE FULL WEIGHT OF THE SHELTER.
 3. UNLESS OTHERWISE NOTED, THE SHELTER MUST BE SUPPORTED AT ALL LIFTING LOCATIONS (MINIMUM). ADDITIONAL SUPPORT MAY BE REQUIRED PER PLAN.
 4. SHELTER IS DESIGNED FOR A SLAB FOUNDATION FOR NON-STRUCTURAL REASONS. IF A DIFFERENT DESIGN IS REQUESTED, CONTACT THERMO BOND FOR APPROVAL.
 5. ANCHOR LOCATION AND QUANTITY ARE REQUIRED PER PLAN. IF A DIFFERENT LOCATION OR QUANTITY IS REQUESTED, CONTACT THERMO BOND FOR APPROVAL.
 6. SHELTER ANCHORING DEVICES MUST BE ENTIRELY ABOVE GRADE.
 7. FOUNDATION MUST BE SQUARE TO WITHIN +/- 1/4\".
 8. FOUNDATION SUPPORT LOCATIONS MUST BE LEVEL TO +/- 1/4\" AND FOUNDATION MAY NOT BE CROWNED BETWEEN SUPPORT LOCATIONS.
 9. FOUNDATION FOOTPRINT PER PLAN +/- 2\" EACH DIRECTION UNLESS OTHERWISE NOTED.

1-1/2" = 1' SCALE

ANCHOR PLATE DETAIL

LIFTING POINT DEVICES WILL BE PROVIDED AS NOTED BELOW. ALL OTHER RIGGING EQUIPMENT AND PLAN IS THE RESPONSIBILITY OF THE RIGGING CONTRACTOR.



RIGGING NOTES:

1. THE SHELTER MUST BE LIFTED ONLY AT THE INDICATED LIFTING POINTS.
2. THE SHELTER MUST BE LEVEL USING ALL INDICATED LIFTING POINTS.
3. THE SHELTER MUST BE LEVEL WHEN LIFTING.
4. ANY TEMPORARY STRUCTURE MUST REMAIN IN PLACE DURING THE LIFTING PROCESS.
5. NO ADDITIONAL ON-SITE EQUIPMENT MAY BE ADDED TO THE SHELTER PRIOR TO LIFTING.
6. THERMO BOND LIFTING POINT DEVICES MUST BE USED FOR LIFTING. IF OTHER LIFTING DEVICES ARE REQUESTED, CONTACT THERMO BOND FOR APPROVAL.
7. MODIFICATION OF LIFTING POINT DEVICES IS NOT PERMITTED.
8. INSPECT LIFTING POINT DEVICES FOR DAMAGE PRIOR TO LIFTING. DO NOT USE DEVICES WITH DAMAGE AND CONTACT THERMO BOND FOR REPLACEMENT.
9. PROTECT EXTERNAL FEATURES FROM DAMAGE PRIOR TO LIFTING.
10. ROUTE RIGGING AWAY FROM EXTERNAL EQUIPMENT AND PROTRUSIONS OR PROTECT FROM DAMAGE PRIOR TO LIFTING.
11. DO NOT PLACE THE SHELTER ON UNEVEN OR UNSTABLE SURFACES.
12. RIGGING CONTRACTOR IS RESPONSIBLE FOR ENSURING SAFETY AND QUALITY REQUIREMENTS ARE MET.
13. INSPECT SHELTER AND EQUIPMENT FOR DAMAGE AFTER PLACEMENT.
14. THESE LIFTING INSTRUCTIONS ARE NOT ENGINEERED BY THERMO BOND BUILDINGS, ANY LIFTING ENGINEERING THAT NEEDS TO BE DONE TO LIFT THE SHELTER IS THE RESPONSIBILITY OF THE CUSTOMER AND/OR RIGGING COMPANY.
15. AN UNBALANCED LOAD SHOULD BE ANTICIPATED. TAKE ALL NECESSARY PRECAUTIONS TO BALANCE THE LOAD PRIOR TO LIFTING THE SHELTER.
- 16.

 58120 Century Road 3 Elizabethtown, KY 40117 502-734-1214 www.thermobond.com	Lift Rigging IDAHO 12W, OD x 3.6L, OD x 9H, ID SHELLTER	TB1644 Infrastructure Group Intermountain	PROJECT NUMBER DRAWN: 2212-473 1/10/2023 REVISION: 6/13/23 SCALE: 1:1X7 DRAWN BY: SAR SHEET: 16 of 16
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