CUDDY +FEDER LLP

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White Plains, New York 10601
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Daniel M. Laub

October 19, 2018

BY EMAIL & FEDEX
Melanie Bachman, Esq.
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

Re: Eco-Site
Docket 476 – Somers, Connecticut
Minor Modification to Development and Management Plan

Dear Acting Executive Director Bachman:

This letter is respectfully submitted on behalf of Eco-Site to request a minor modification to the Development and Management Plan approved for the Docket 476 facility. Enclosed please find drawings prepared by Infinigy last revised October 18, 2018. We provide the following:

1. A small microwave dish antenna on the beta sector mount has been reintroduced to assure a data connection in case installation of a landline is delayed (Sheet C4);
2. Specifications of the antenna installation are included (Sheet C4);
3. Within its sublease area in the approved compound T-Mobile will now install four (4) cabinets instead of the two (2) included originally (Sheet C3); and
4. T-Mobile will install a 220-gallon 25kW diesel generator set in lieu of the previously proposed propane generator (Sheet C12). A specification sheet for this generator is also provided.

Given the *de minimus* nature of these alterations we respectfully request administrative approval of same. By way of update please note that the tower is erected, and work is proceeding on the compound, access and utilities with the objective of being on-air by the end of the calendar year.

Thank you for your consideration of the enclosed.

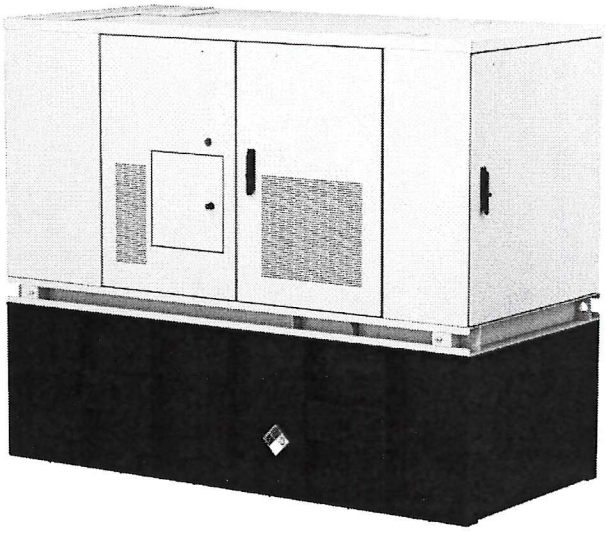
Very truly yours,

Daniel M. Laub
Enclosures

Cc: Eco-Site; T-Mobile; Project Team

PowerGen 15000/25000

DC Generator



Delta PowerGen 15kW/25kW is an outdoor -48V_{DC} standby generator designed to support telecommunications network power through extended utility power outages. Using 2.2 liters naturally aspirated 4-cylinder compact package engine, it's powerful but quiet. Delta PowerGen 15kW/25kW installation and deployment is quicker, easier and less costly than a traditional AC generator. Its availability can be assured through remote web browser access as well as M2M automation using SNMP alarms, polling and exercise.

Key Features

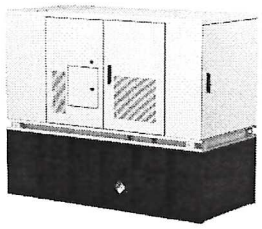
- Available in 15kW/25kW, 52V_{DC}, positive ground
- Easy installation and maintenance.
- DC output design reduces space requirements for generator and large batteries. Increases efficiency and reliability over an AC generator.
- Connects directly to DC plant with no need for a transfer switch or any AC power modifications.
- Diffused and diluted exhaust without any hot surfaces. Cabinet is safe to touch.
- Easy Integration with renewable energy systems.
- Automatic operation, triggered on loss of AC utility power digital input and/or and battery voltage thresholds.
- WEB browser interface for programming, control, monitoring, and firmware updates.
- SNMP Traps containing configurable alarm names and severities to respect Control Center standards. Generous alarm contacts are provided for traditional monitoring.
- Safe Voltages for Telco Network Power Technicians troubleshooting.
- Longer Service Interval over 500hrs
- High Power Quality. Output Ripple below 250mV. Psophometric noise below 2mV.

Applications

- Cell sites
- Land Mobile towers
- Data communications

DELTA

PowerGen 15000/25000



GENERAL	PowerGen 15000	PowerGen 25000	GOAOGC-02-ZL
Rated Power	15 kW @ 52 V_{DC}	24.3 kW @ 52 V_{DC}	
Fuel consumption	0.89 gallons/hour (50% load) 1.19 gallons/hour (75% load) 1.55 gallons/hour (100% load)	1.32 gallons/hour (50% load) 1.84 gallons/hour (75% load) 2.44 gallons/hour (100% load)	
Cooling Air Flow	1843 ft^3 / minute	2966 ft^3 / minute	
Output Voltage	-52 V_{DC} (Positive Ground, Configurable -48 to -56 V_{DC})		
Voltage Regulation	± 1%		
Ripple Voltage	< 250 mVp-p		
User Interfaces	LCD with LED Indicators, Form C Alarm Dry Contacts WEB GUI and SNMP		
Features	Auto start based site battery voltage (-50V default) Local manual/Emergency mode Configurable cycling exercise self-test Alarm renaming with configurable severity Generator DC output energy meter Engine run hour meter Engine start counter.		

ENGINE		
Make	Perkins 404D-22G (Naturally aspirated Diesel in-line 4 cyl.)	Perkins 404D-22TG (Turbocharged Diesel in-line 4 cyl.)
Power	21.3 kW @ fixed 1800 RPM	30 kW @ fixed 1800 RPM
Exhaust Flow	153 ft^3 / minute (4.34 m^3 / minute)	265 ft^3 / minute (7.5 m^3 / minute)
Oil Capacity	10.6 liters	10.6 liters
Coolant Capacity	7.0 liters	9.3 liters
Engine Battery	SuperCap	
Engine Battery Charger	Delta 48V_{DC} -to- 12V_{DC}	

ALTERNATOR		
Make	Leroy Somer / LSA 40 M5 (4 poles, insulation class H)	
Voltage Regulator	R221	

MECHANICAL		
Dimensions (W x H x D)	2100 x 1710 x 953mm (82.7 x 67.3 x 37.5in) (with standard 160 gallon tank)	
Weight	1050kg (2314lb)	1100kg (2425lb)

ENVIRONMENTAL		
Operating Temperature	-20 to +45 °C (-4 to +113 °F); De-rate power 5% per 5°C above +45°C	-20 to +45 °C (-4 to +113 °F); De-rate power 5% per 5°C above +35°C
Altitude	De-rate power 3% per 1000 feet above 1000 feet	De-rate power 3% per 1000 feet above 3000 feet
Related Humidity	95%, non-condensing (Max.)	
Acoustic Noise	65dBA at 23 feet (7 meters)	

STANDARDS		
Safety	UL LISTED including UL142 fuel tank	
EMC	FCC Part 15 Class A	

* All specifications are subject to change without prior notice.

Delta Electronics Inc.
3 Tungyuan Road, Chungli Industrial Zone,
Taoyuan City 32063, Taiwan.
T +886 3 452 6107 / **F** +886 3 452 7314
www.deltaww.com

DELTA

811 Know what's below. Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN MASSACHUSETTS, CALL DIG SAFE SYSTEM, INC. TOLL FREE: 1-888-344-7233 OR www.digsafe.com

MASSACHUSETTS STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Eco-Site

240 LEIGH FARM ROAD, SUITE 415
DURHAM, NC 27707

CONSTRUCTION DRAWINGS
DOCKET No.: 476
ECO-SITE: BLUE RIDGE CT-0005A
T-MOBILE: ROMANO/CTHA027B

SITE ADDRESS:

248 HALL HILL ROAD
SOMERS, CT 06071
TOLLAND COUNTY

LATITUDE: 42° 0' 9.34" N
LONGITUDE: 72° 29' 5.99 W
ELEVATION: 232' AMSL
TAX/PIN #: MAP 7, LOT 72
ZONING: A-1

VICINITY MAP

CONSTRUCTION OF TELECOMMUNICATION AND PUBLIC UTILITY FACILITY, CONSISTING OF A MONOPOLE TOWER, SPACE FOR CARRIER EQUIPMENT AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND. NO WATER OR SEWER IS REQUIRED.

PROJECT SUMMARY

1. HEAD NORTH ON I-91 N TOWARD CT-220E/ELM STREET.
2. TAKE EXIT 48 ON TO ELM STREET IN ENFIELD.
3. TURN RIGHT TO CONTINUE ON ELM STREET.
4. CONTINUE STRAIGHT ONTO MOODY ROAD.
5. MOODY ROAD BECOMES GEORGE WOOD ROAD.
6. TURN RIGHT ONTO TO BRACE ROAD
7. TURN RIGHT ONTO HALL HILL ROAD
8. SITE WILL BE ON YOUR LEFT

DRIVING DIRECTIONS

TOWN OF SOMERS:
600 MAIN STREET, PO BOX 308
SOMERS, CT 06071
(860) 763-8201

PERMIT INFORMATION

DEVELOPER:
ECO-SITE
240 LEIGH FARM ROAD, SUITE 415
DURHAM, NC 27707
(919) 636-6810
ATTN:

POWER COMPANY:
EVERSOURCE
107 SELDON STREET
BERLIN MA, 06037
JOHN KARVNDI
(860) 871-3408

TELEPHONE COMPANY:
TBD
(800) XXX-XXXX
ATTN: CUSTOMER SERVICE

PROPERTY OWNER:
DEBRA ROMANO
248 HALL HILL ROAD
SOMERS, CT 06071

PROJECT SUMMARY

DRWG. #	TITLE	REV.#	DATE
T1	TITLE SHEET	3	10/18/18
C1	GENERAL NOTES & LEGEND	3	10/18/18
C2	OVERALL SITE PLAN	3	10/18/18
C3	ENLARGED SITE LAYOUT	3	10/18/18
C4	TOWER ELEVATION	3	10/18/18
C5	CIVIL DETAILS	3	10/18/18
C6	CIVIL DETAILS	3	10/18/18
C7	UTILITY RACK DETAIL	3	10/18/18
C8	T-MOBILE EQUIPMENT DETAILS	3	10/18/18
C9	T-MOBILE EQUIPMENT DETAILS	3	10/18/18
C10	ICE BRIDGE DETAILS	3	10/18/18
C11	GENERATOR BLOCK DIAGRAM	3	10/18/18
C12	GENERATOR DETAILS	3	10/18/18
C13	SITE SIGNAGE DETAILS	3	10/18/18
EC1	GRADING & EROSION SEDIMENT CONTROL NOTES & DETAILS	3	10/18/18
EC2	GRADING PLAN	3	10/18/18
EC3	GRADING PLAN CONT'D	3	10/18/18
E1	OVERALL UTILITY PLAN	3	10/18/18
E1A	ENLARGED UTILITY PLAN	3	10/18/18
E1B	TRANSFORMER PAD DETAILS	3	10/18/18
E2	SITE GROUNDING PLAN	3	10/18/18
E2A	T-MOBILE GROUNDING PLAN	3	10/18/18
E3	ONE LINE DIAGRAM	3	10/18/18
E4	GROUNDING DETAILS	3	10/18/18
E5	GROUNDING DETAILS	3	10/18/18

DRAWING INDEX

INFINIGY
1033 Watervliet Shaker Road | Albany, NY 12205
Phone: 518.690.0790 | Fax: 518.690.0791
www.infinigy.com

T-Mobile

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24052
OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title: TITLE SHEET

Drawing Scale:
Date: 10/18/18
CD

Drawing Number: T1

GENERAL NOTES

1. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
5. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
6. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
7. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
8. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
11. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-922-4455.
12. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
14. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INCLUDING, BUT NOT LIMITED TO, THE BUILDING PERMIT, INSPECTIONS, CERTIFICATES, ETC.
17. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
18. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE OSHA REGULATIONS FOR CONSTRUCTION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
20. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
21. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
22. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OR OWNER'S REPRESENTATIVE ON THE DRAWINGS.
23. CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE EQUIPMENT PAD AND THE TOWER.
24. ALL IMPROVEMENTS TO CONFORM WITH LOCAL JURISDICTION CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL INTERIOR STRUCTURAL STEEL USED SHALL BE, WHEN DELIVERED, FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
3. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
4. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
5. CONNECTIONS:
   A. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION ", 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
   B. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
   C. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
   D. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

DESIGN DATA

1. WIND LOADS: PER EIA/TIA G-222
   ICE LOADS: 1/2" RADIAL ON ALL COMPONENTS & CABLE
   SNOW LOAD: PER CT STATE BLDG. CODE.
   SEISMIC LOADS: PER CT STATE BLDG CODE.

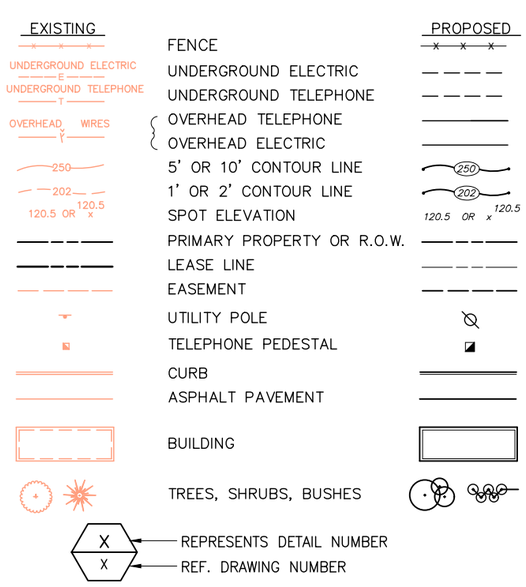
CONCRETE NOTES

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
4. MAXIMUM AGGREGATE SIZE SHALL BE 1".
5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 185
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING

6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1 1/2 IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL .....3/4 IN.
   BEAMS AND COLUMNS .....1 1/2 IN.
9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURES WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
11. CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
13. DO NOT WELD OR TACKWELD REINFORCING STEEL.
14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
15. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
20. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

CIVIL LEGEND



INFINIGY
1033 Watervliet Shaker Road | Albany, NY 12205
Phone: 518.690.0790 | Fax: 518.690.0791
www.infinigy.com

T-Mobile

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24502
OCT 2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
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0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For:
Eco-Site

Drawing Title:
GENERAL NOTES & LEGEND

Drawing Scale:
Date: 10/18/18

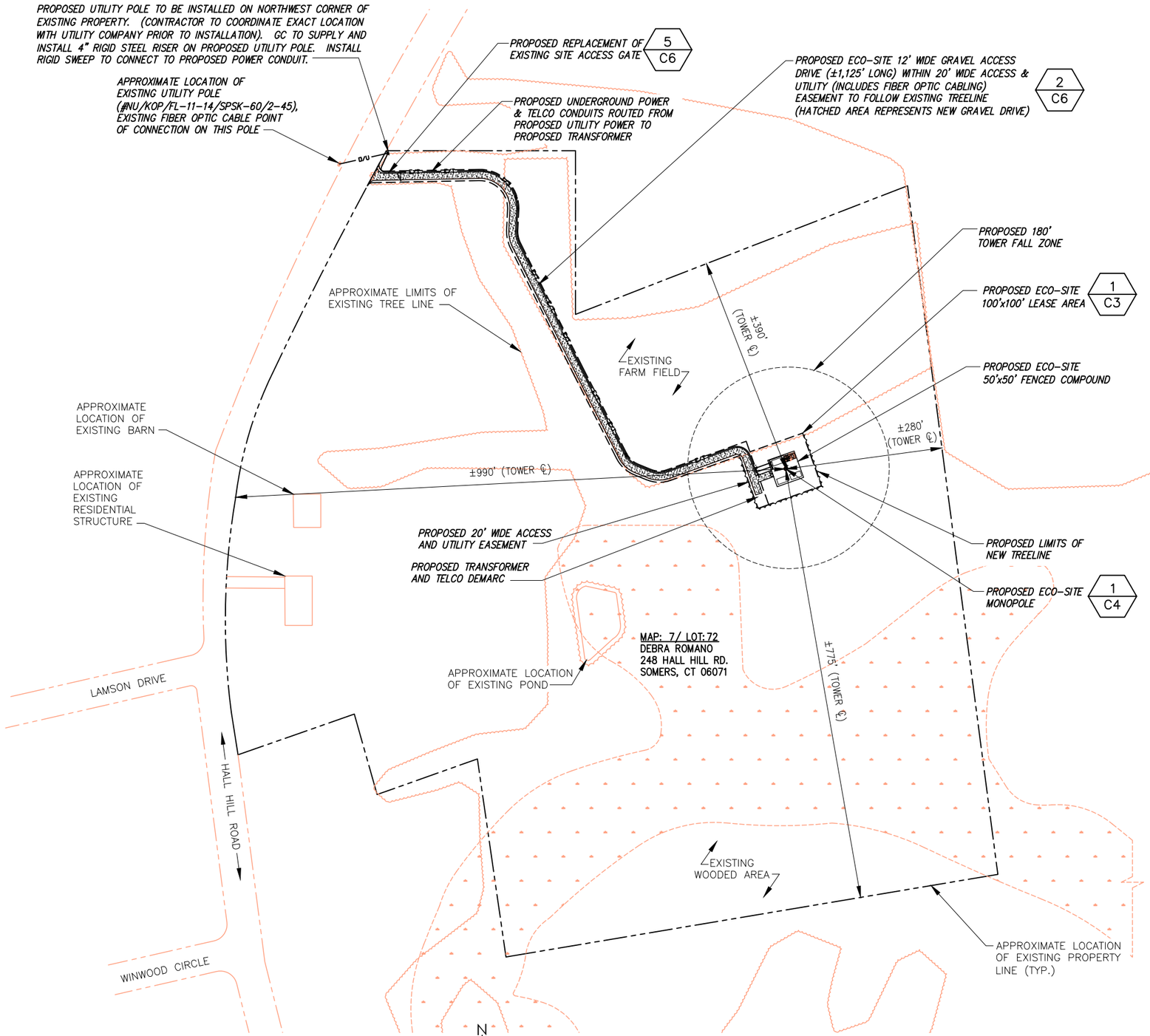
CD

Drawing Number:
C1

NOTE:
- ROUTE OF UTILITY IS TO FOLLOW ACCESS EASEMENT UNLESS OTHERWISE DIRECTED BY UTILITY COMPANY.

SHADED AREA REPRESENTS "INLAND WETLAND SOILS" FROM SOMERS CT GIS ONLINE DATABASE DELINEATION IN FIELD TO BE COMPLETED BY OTHERS. PER WETLAND INVESTIGATION BY OTHERS, NO WETLANDS EXIST ON THIS PARCEL.

NOTE:
- NO CONSTRUCTION IS TO BE COMPLETED BETWEEN THE DATE OF FEBRUARY 15TH & APRIL 15TH DUE TO VERNAL POOL.
- HOURS OF CONSTRUCTION SHALL BE FROM 8:00AM – 6:00PM EST.



1 OVERALL SITE PLAN
SCALE: AS NOTED

DRAWING SCALE
200' 100' 0 100' 200'
SCALE (11x17): 1" = 200'-0"
SCALE (22x34): 1" = 100'-0"

BASEMAPPING INFORMATION BASED ON INFORMATION OBTAINED FROM A SITE WALK COMPLETED BY INFINIGY ON 11/29/16 AND SITE SURVEY COMPLETED BY "CLIMAX DEVELOPMENT OF W.N.Y." TITLED: "BLUE RIDGE, SITE SURVEY".

INFINIGY
1033 Watervliet Shaker Road | Albany, NY 12205
Phone: 518.690.0790 | Fax: 518.690.0791
www.infinigy.com

T-Mobile

STATE OF CONNECTICUT
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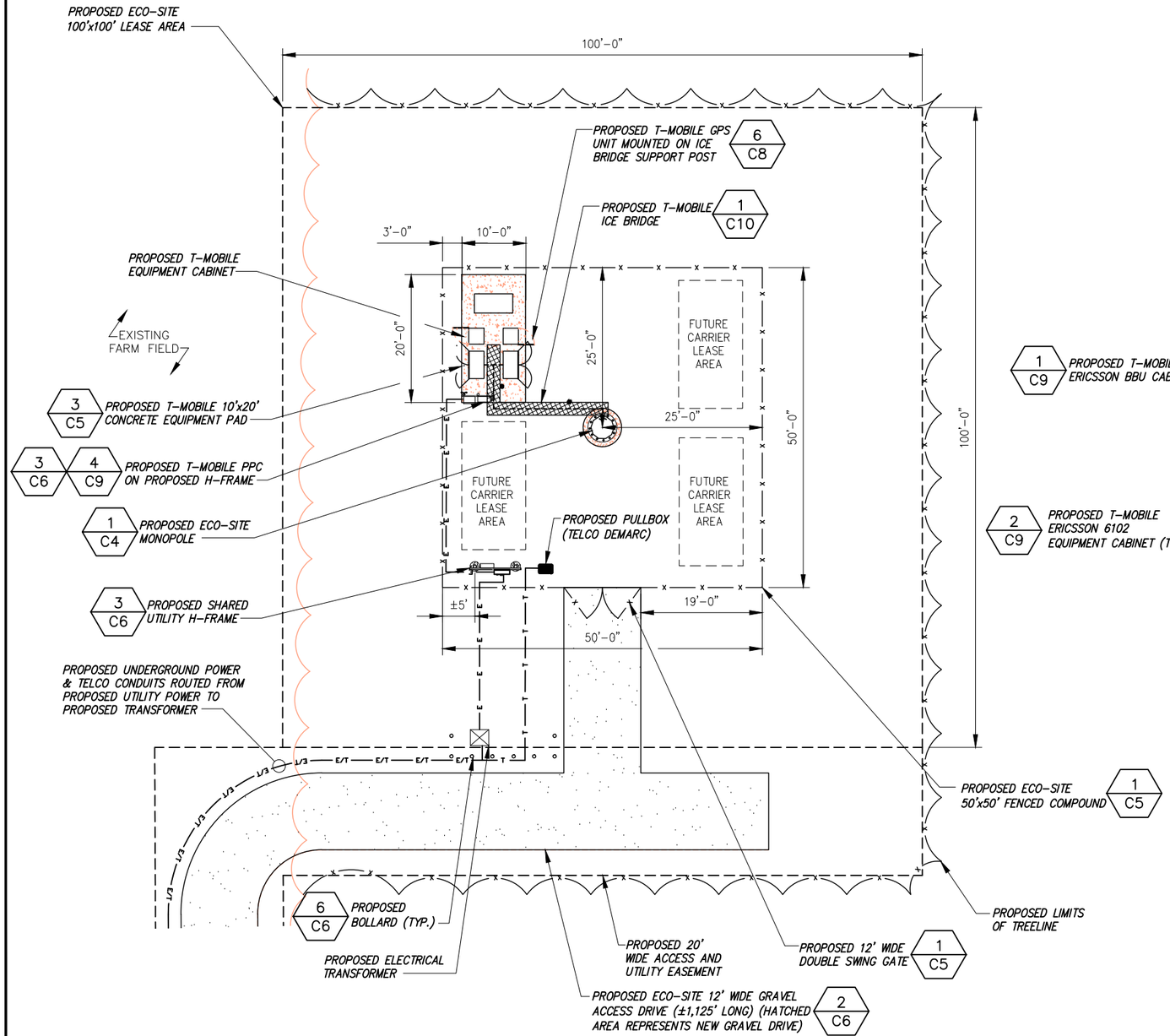
Prepared For: Eco-Site

Drawing Title:
OVERALL SITE PLAN

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C2



CALLED NORTH

1 -- ENLARGED SITE LAYOUT

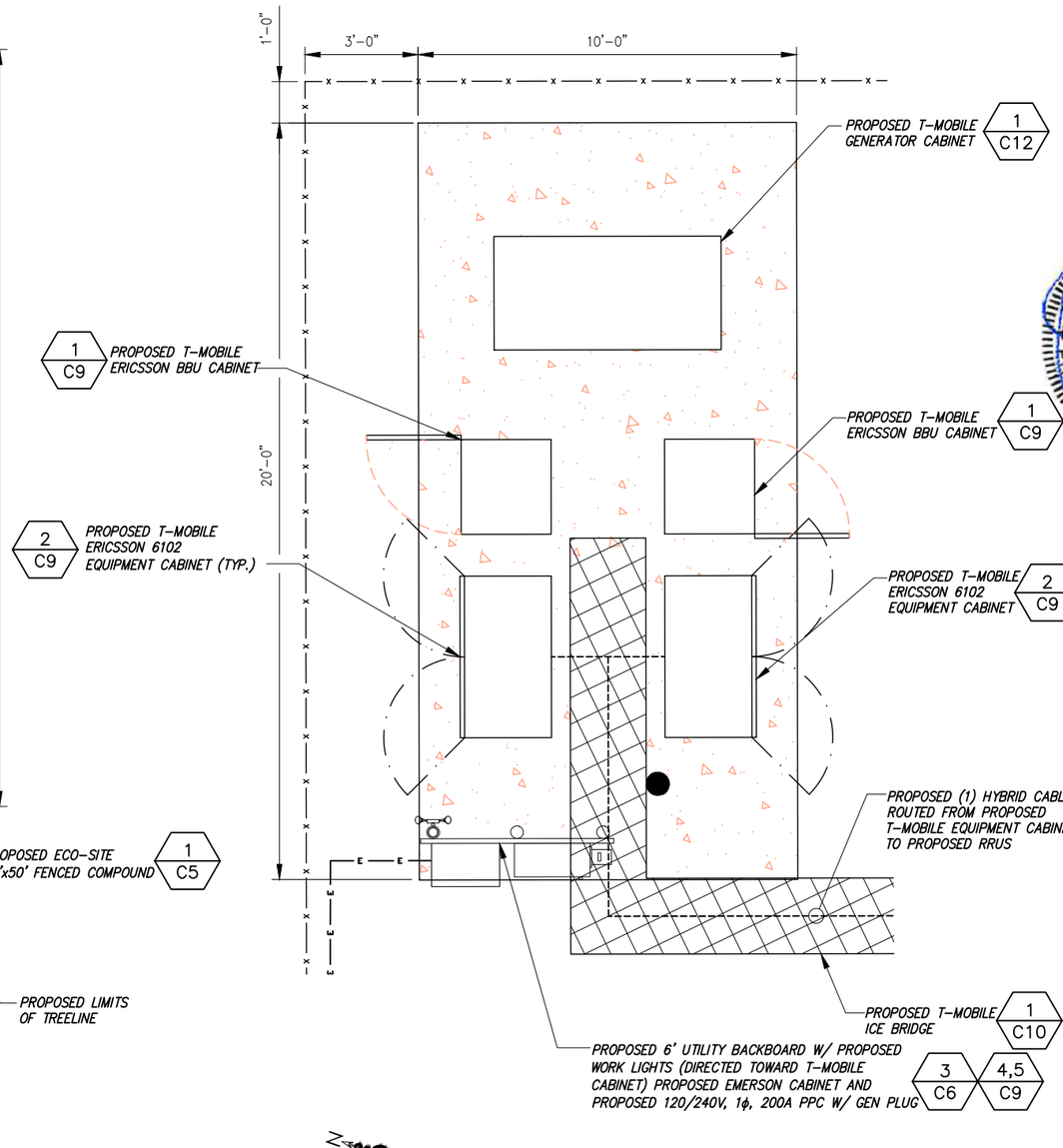
SCALE: AS NOTED

DRAWING SCALE

20' 10' 0 10' 20'

SCALE (11x17): 1" = 20'-0"

SCALE (22x34): 1" = 10'-0"



CALLED NORTH

2 -- ENLARGED EQUIPMENT LAYOUT

SCALE: AS NOTED

DRAWING SCALE

4' 2' 0 2' 4'

SCALE (11x17): 1" = 4'-0"

SCALE (22x34): 1" = 2'-0"

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24502
LICENSED PROFESSIONAL ENGINEER
OCT 18 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

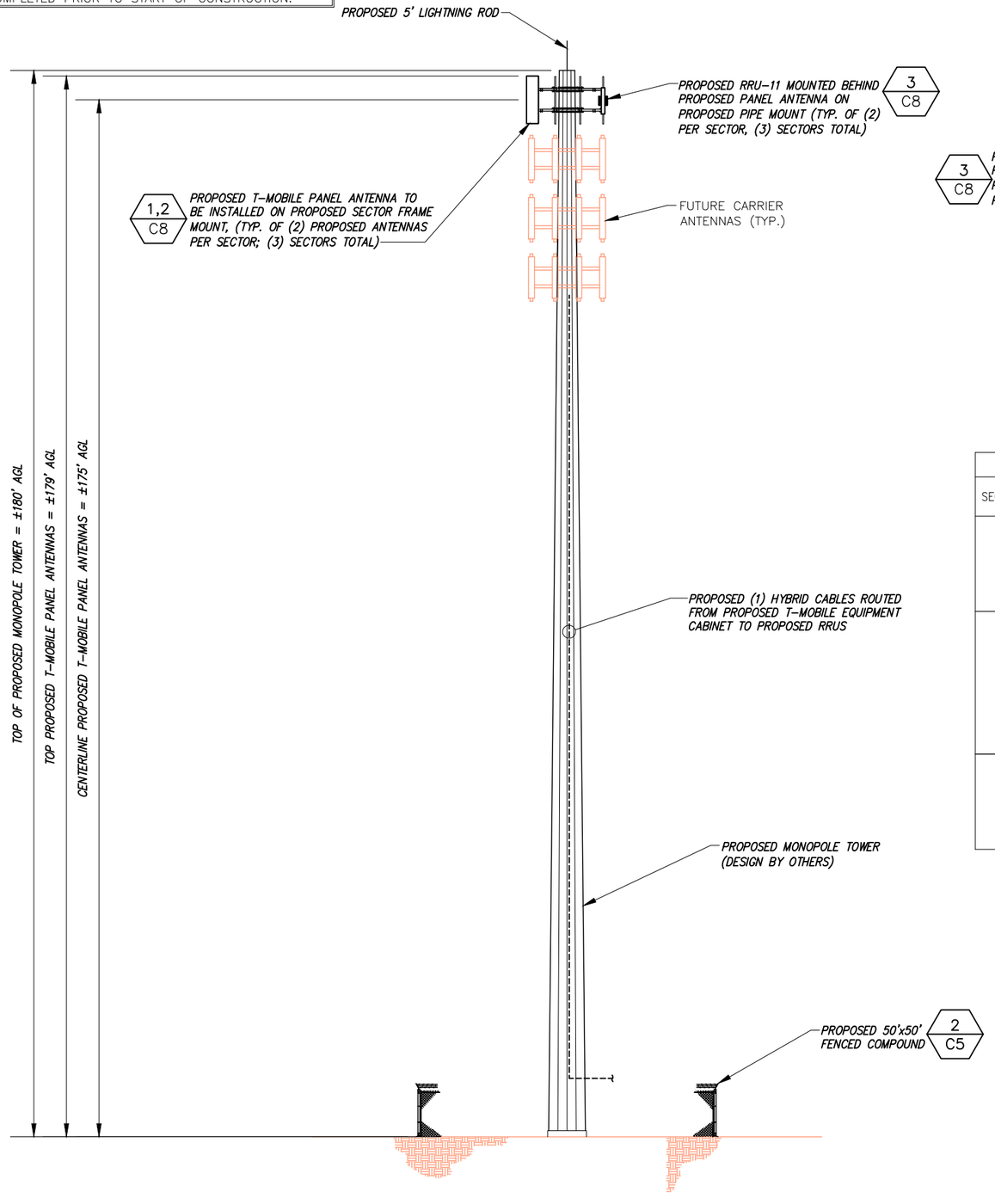
Prepared For: Eco-Site

Drawing Title:
ENLARGED SITE LAYOUT

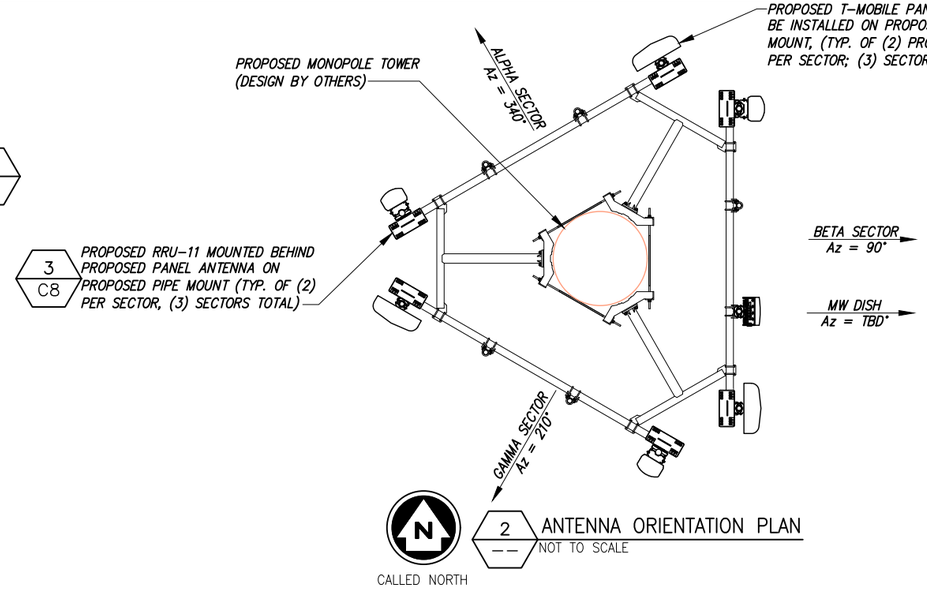
Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C3

INFINIGY ENGINEERING ASSUMES NO LIABILITY FOR THE STRUCTURAL INTEGRITY OF THE PROPOSED TOWER INSTALLATION. A STRUCTURAL ANALYSIS MUST BE COMPLETED PRIOR TO START OF CONSTRUCTION.



1 -- TOWER ELEVATION
NOT TO SCALE

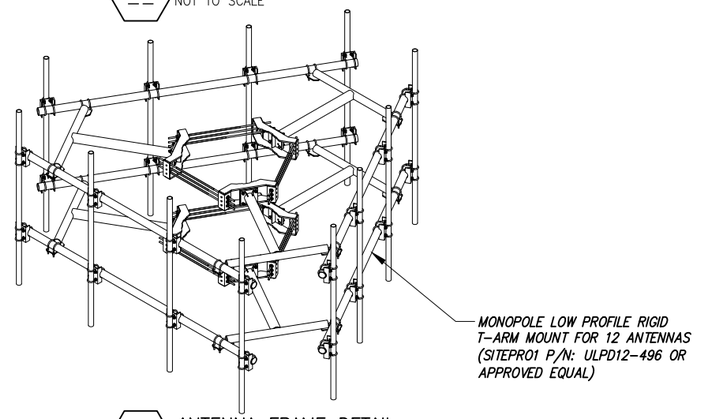


2 -- ANTENNA ORIENTATION PLAN
NOT TO SCALE

ANTENNA AND RRU SCHEDULE

SECTOR	ANTENNA POSITION	ANTENNA MAKE	ANTENNA MODEL	RAD CTR. FT. AGL	AZIMUTH	RRU/ODU	E-TILT	M-TILT	CABLE
ALPHA	#1	RFS	APXVAA24_43-U-A20	175'-0"	340°	ERICSSON RRUS-11 B4	2° (L2100)	0°	(1) 6X12 HYBRID (SHARED BY ALPHA)
	#2	RFS	APXV18-206516S-C-A20	175'-0"	340°	ERICSSON RRUS-11 B12	2° (L700)	0°	(1) 6X12 HYBRID (SHARED BY ALPHA)
BETA	#1	RFS	APXVAA24_43-U-A20	175'-0"	90°	ERICSSON RRUS-11 B4	2° (L2100)	0°	(1) 6X12 HYBRID (SHARED BY BETA)
	#1	FASTBACK	IBR-1300	175'-0"	TBD	N/A	N/A	N/A	1/2" ø COAX
	#2	RFS	APXV18-206516S-C-A20	175'-0"	90°	ERICSSON RRUS-11 B12	2° (L700)	0°	(1) 6X12 HYBRID (SHARED BY BETA)
GAMMA	#1	RFS	APXVAA24_43-U-A20	175'-0"	210°	ERICSSON RRUS-11 B4	2° (L2100)	0°	(1) 6X12 HYBRID (SHARED BY GAMMA)
	#2	RFS	APXV18-206516S-C-A20	175'-0"	210°	ERICSSON RRUS-11 B12	2° (L700)	0°	(1) 6X12 HYBRID (SHARED BY GAMMA)

3 -- RF LOADING CHART
NOT TO SCALE



4 -- ANTENNA FRAME DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24503
OCT 2018
LICENSED PROFESSIONAL ENGINEER

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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title: TOWER ELEVATION

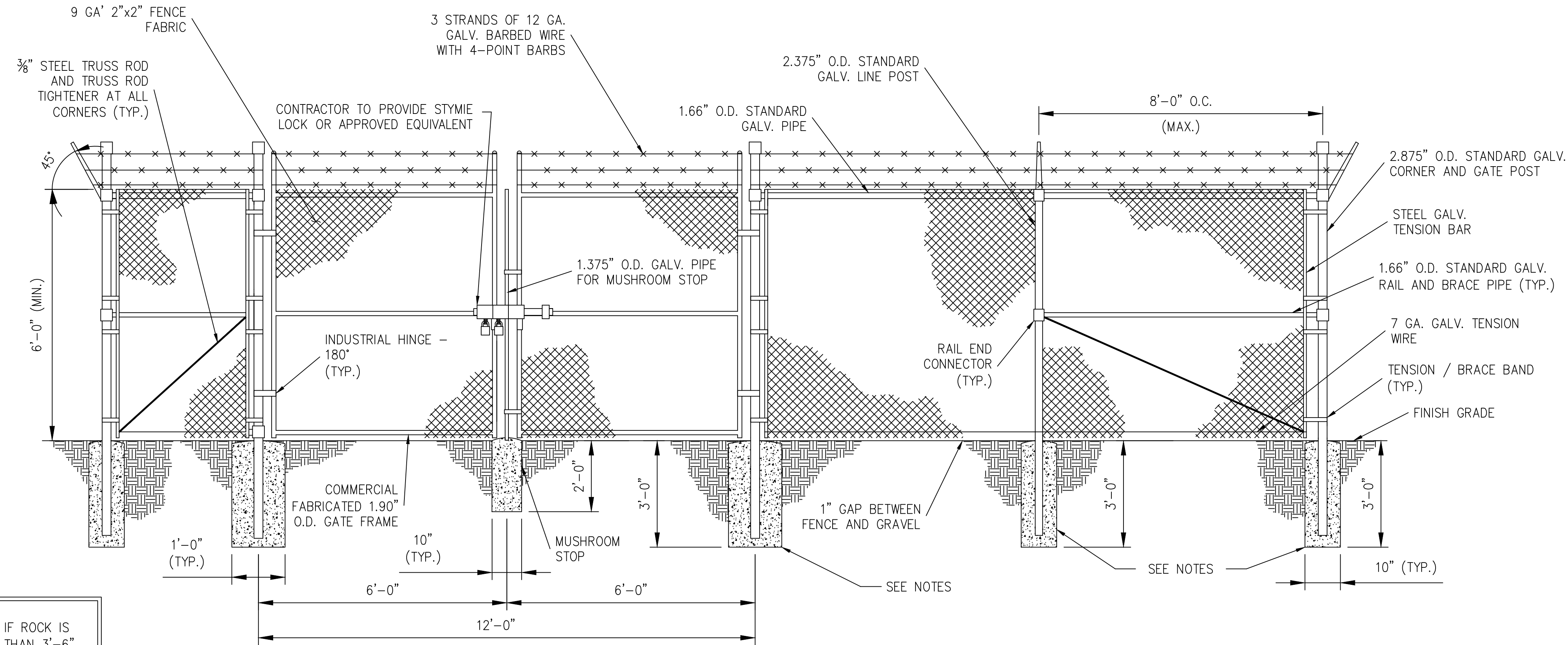
Drawing Scale:
Date: 10/18/18
CD

Drawing Number: C4

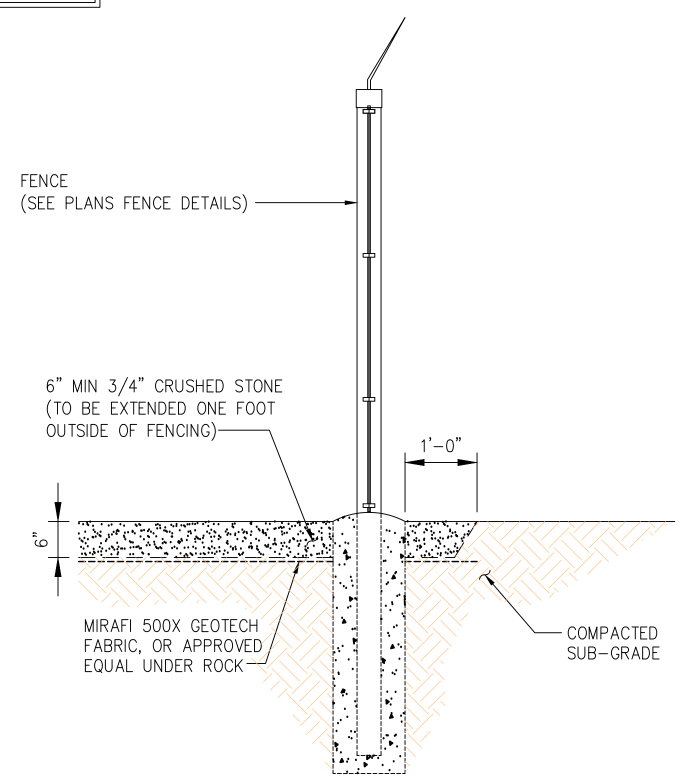
FENCE NOTES

1. USE 3,000-PSI CONCRETE, FULLY CONSOLIDATED AROUND THE POST.
2. WHERE THE POST IS SET IN ROCK OR CONCRETE, CORE A HOLE 12" DEEP AND 1" LARGER IN DIAMETER THAN THE POST. SET THE POST AND GROUT IN PLACE USING NON-SHRINK GROUT.
3. ALL POSTS MUST BE PLUMB AND ALIGNED WITH ONE ANOTHER IN BOTH HORIZONTAL AND VERTICAL PLANES.
4. CORNERS AND GATEPOSTS FOR CHAIN LINK FENCES SHALL EXTEND ABOVE THE TOP STRAND OF BARBED WIRE TO PROVIDE TENSIONING FOR THE BARBED WIRE.
5. PROVIDE MIDRAILS AND BRACING AT ALL CORNER POSTS WHERE THE FENCE CHANGES DIRECTION BY MORE THAN 30 DEGREES.
6. 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.
7. CONTRACTOR SHALL PROVIDE HOLD OPEN DEVICES FOR ALL GATES AT THE SPECIFIED OPEN POSITIONS, DRIVEN PIPE TYPE RECEIVERS ARE NOT AUTHORIZED.
8. CONTRACTOR SHALL ALSO PROVIDE A MUSHROOM TYPE RECEIVER AT THE CLOSE POSITION.

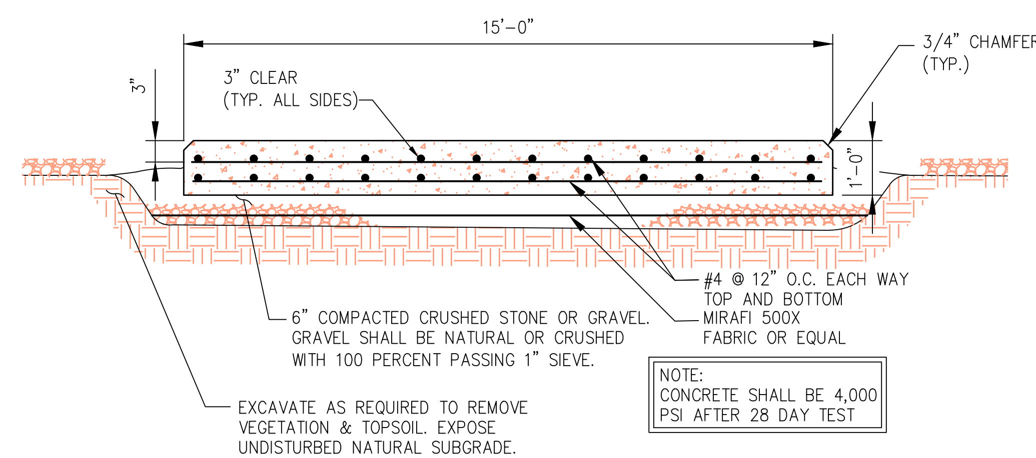
NOTE:
1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN ROCK: IF ROCK IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE ROCK. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF ROCK IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 3 NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL. (THREE POINT HINGE)



1 CHAIN LINK FENCE & GATE ELEVATION
SCALE: N.T.S.



2 SECTION THROUGH COMPOUND
SCALE: N.T.S.



NOTE:
CONCRETE SHALL BE 4,000 PSI AFTER 28 DAY TEST

3 CONCRETE SLAB DETAIL
SCALE: N.T.S.

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OCT 18 2018

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Project Number: 502-005

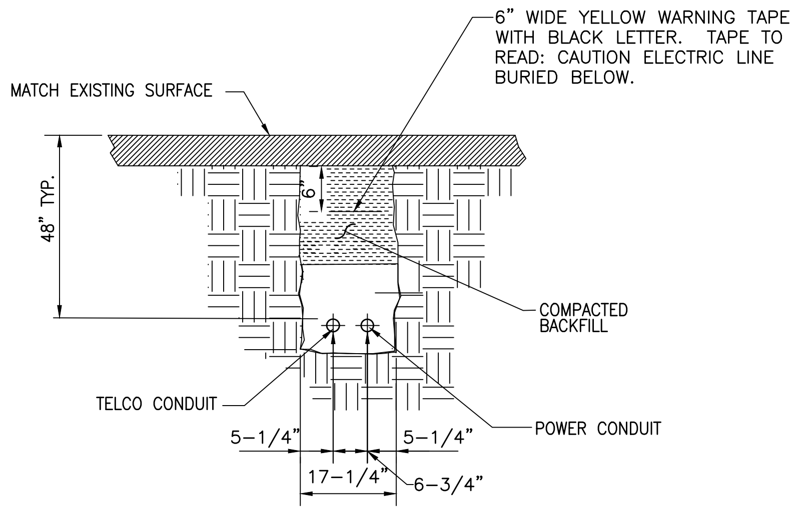
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For:
Eco-Site

Drawing Title:
CIVIL DETAILS

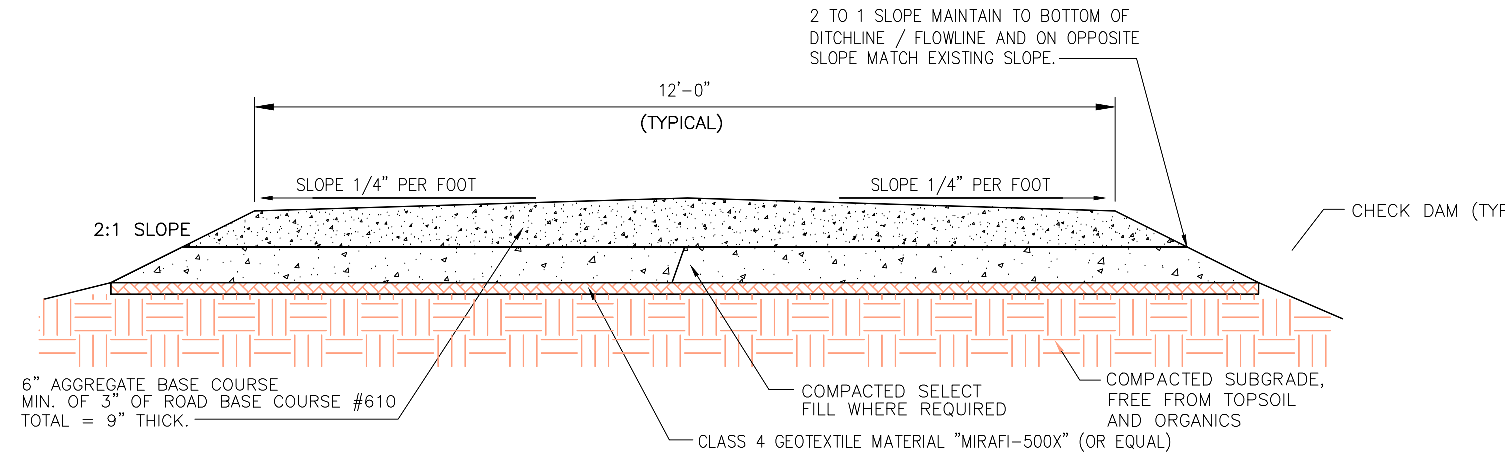
Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C5

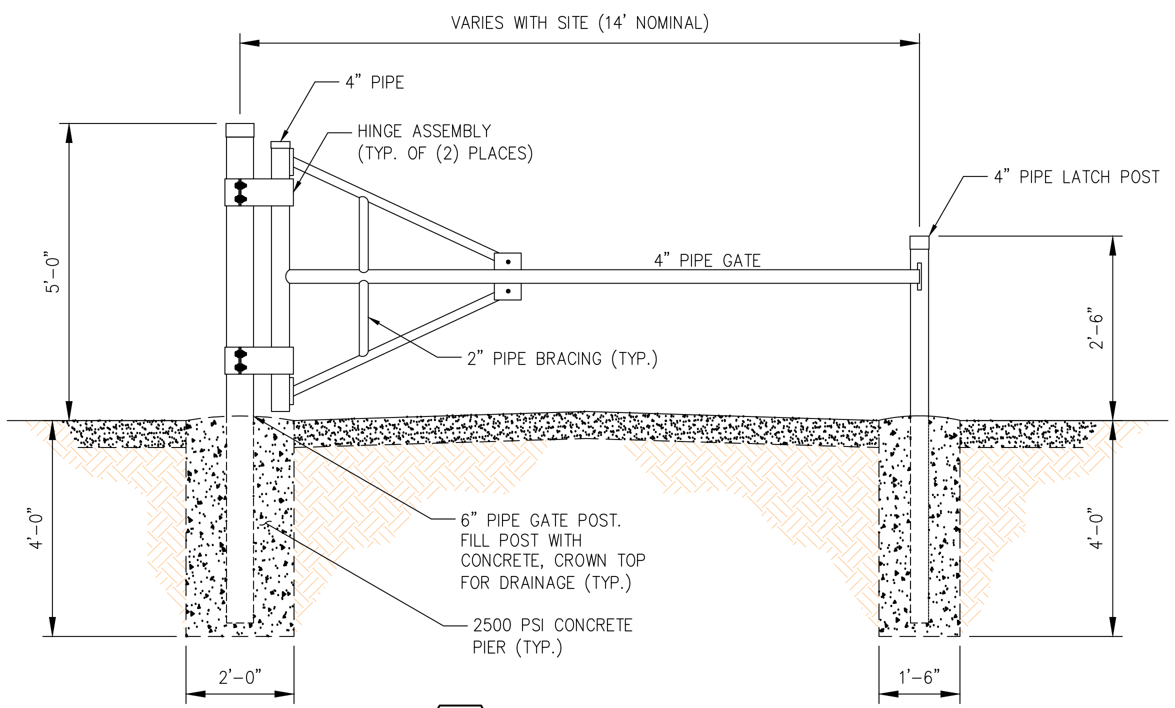


NOTE:
1. NUMBER AND SIZE OF CONDUITS MAY VARY. REFER TO CONSTRUCTION DRAWINGS FOR CONDUIT SIZE AND LOCATION. CONFIRM DIMENSIONS SHOWN WITH UTILITY COMPANY.
2. CONTRACTOR TO VERIFY IN FIELD THE LOCATION, SIZE, TYPE, AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING THE SERVICE TRENCH. PROVIDE A MINIMUM OF 18" CLEARANCE BETWEEN PROPOSED UTILITIES AND EXISTING UTILITIES IN THE CASE OF UTILITY LINE CROSSINGS.

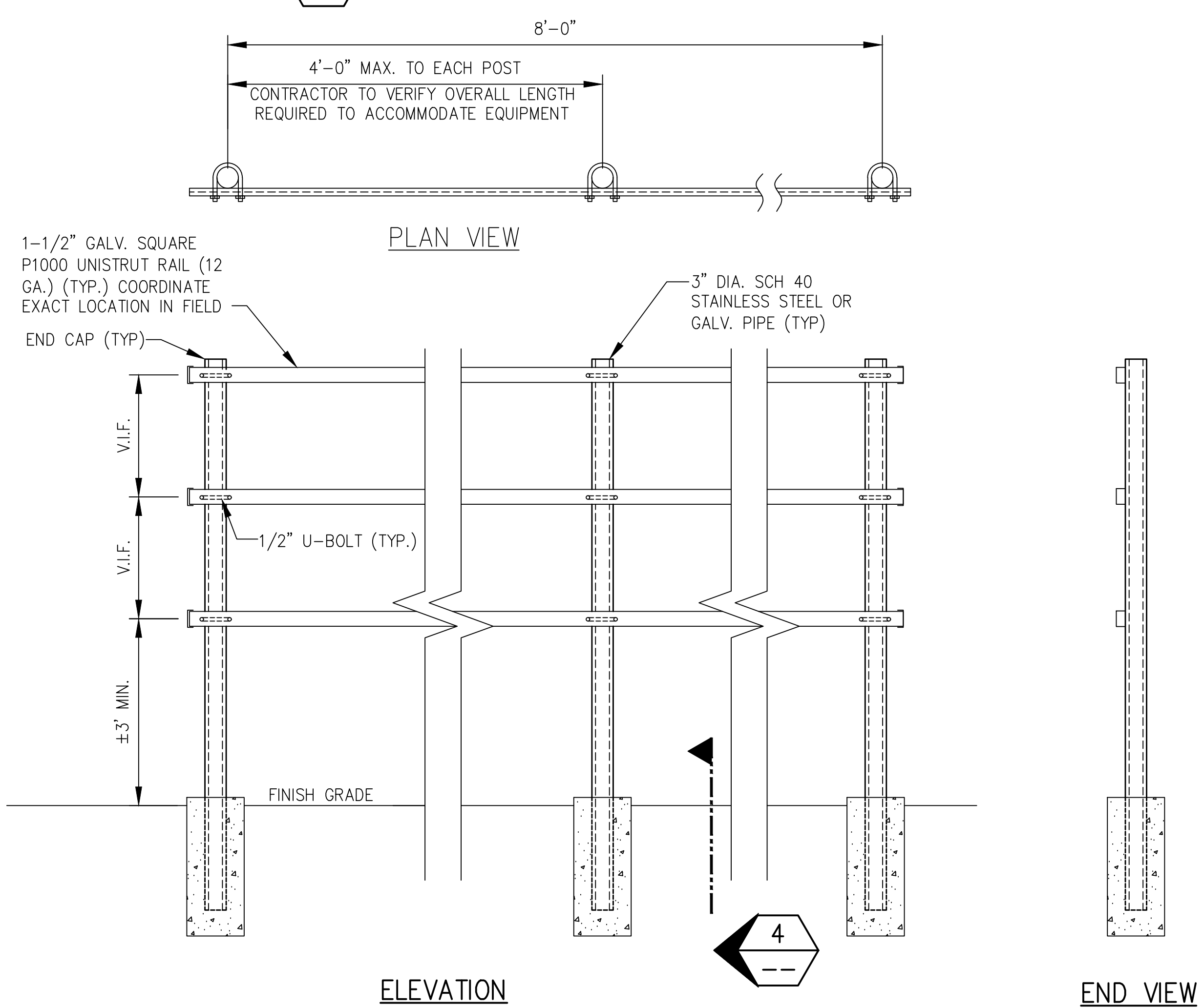
1 TYPICAL CONDUIT TRENCH DETAIL
NOT TO SCALE



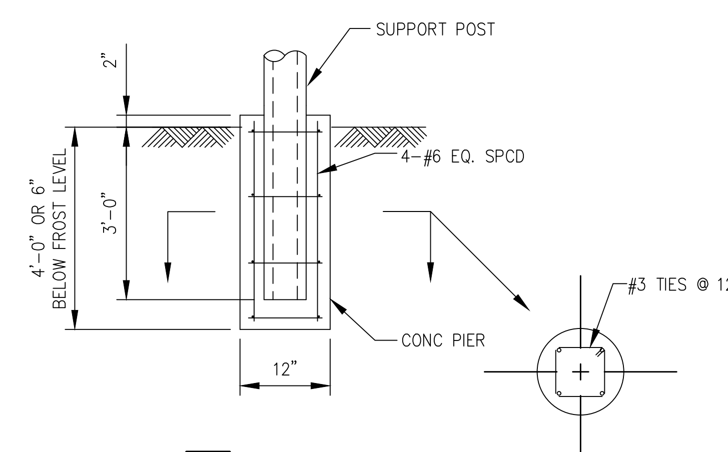
2 DRIVEWAY SECTION – CROWNED
NOT TO SCALE



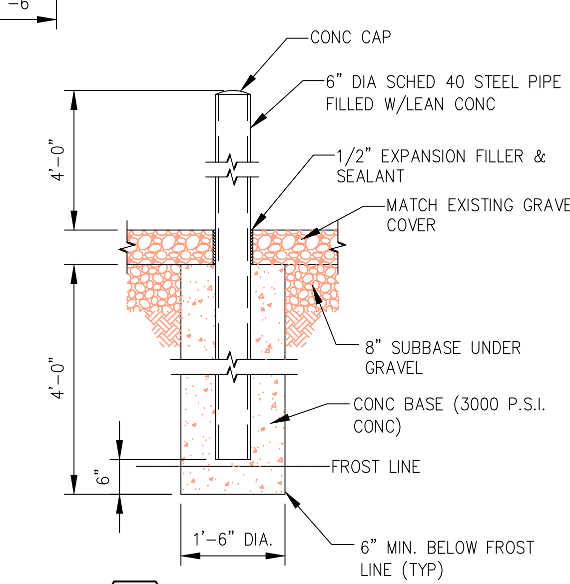
5 ACCESS ROAD GATE
NOT TO SCALE



3 H-FRAME FABRICATION DETAIL
NOT TO SCALE



4 SUPPORT POST FOOTING
NOT TO SCALE



6 BOLLARD DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT
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OCT 18 2018

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Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

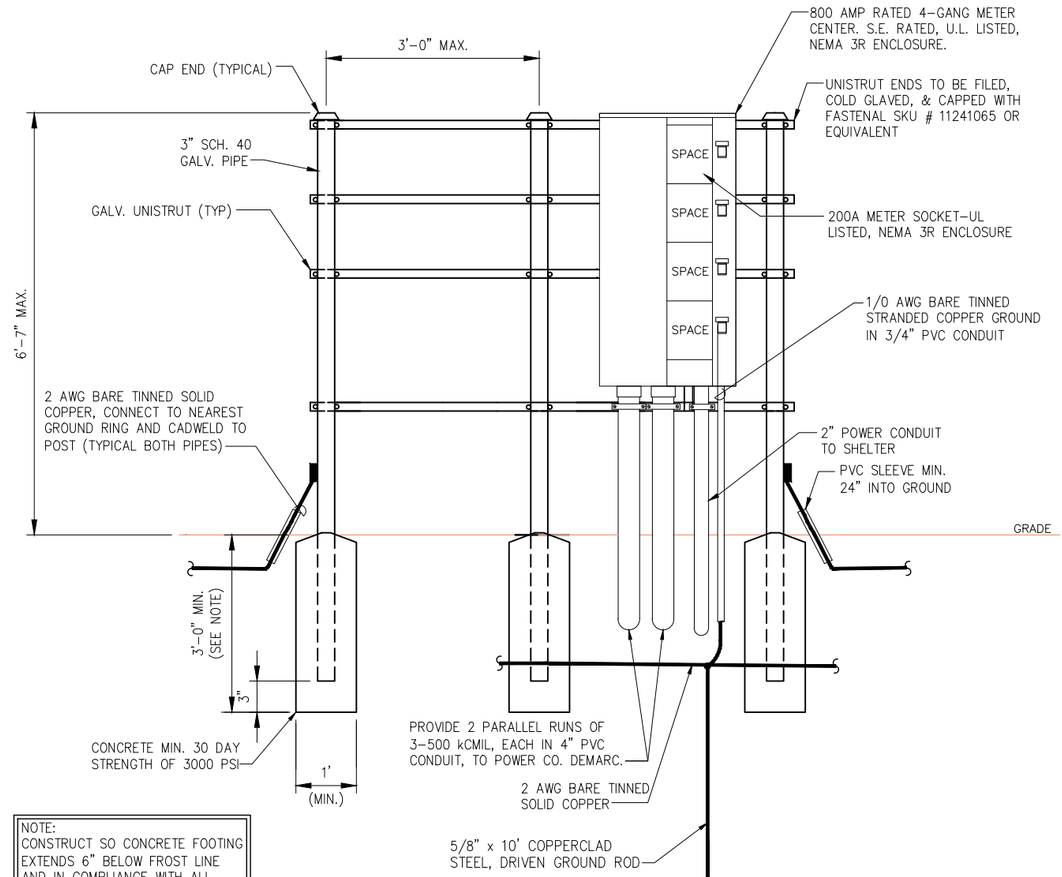
Prepared For:
Eco-Site

Drawing Title:
CIVIL DETAILS

Drawing Scale: CD
Date: 10/18/18

Drawing Number:
C6

1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STATE BUILDING CODES AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. LISTED.
2. REFER TO SITE LAYOUT PLAN FOR THE EXACT LOCATION OF H-FRAME.
3. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR METER.
4. CONTRACTOR TO PROVIDE AND INSTALL METER SOCKET.
5. CONTRACTOR TO LOCATE METER RACK TO ENSURE WORKING SPACES REQUIRED BY THE NEC (ART. 110.26), STATE, OR LOCAL CODES ARE MAINTAINED BETWEEN FRONT OF ENCLOSURES AND THE CHAIN LINK FENCE.
6. SHOW LOCATION (INCLUDING DIMENSIONS) OF ALL CAPPED UNDERGROUND CONDUIT ON FINAL AS-BUILT DRAWINGS SUBMITTED TO OWNER.
7. COORDINATE EXACT LOCATION OF UNDERGROUND FEEDERS AND CIRCUITRY WITH THE OWNER.
8. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL AUTHORITY HAVING JURISDICTION (AHJ) AND OTHER TRADES TO DETERMINE "FROST" LINE, AND TYPES OF RACEWAYS REQUIRED FOR INSTALLATION.
9. ALL CONDUITS ABOVE GROUND SHALL BE GALVANIZED CONDUIT.
10. CONTRACTOR TO CONTACT LOCAL UTILITY PRIOR TO PURCHASING METER CENTER TO VERIFY ANY PARTICULAR REQUIREMENTS, SUCH AS LEVER BYPASS, ETC.



NOTE:
CONSTRUCT SO CONCRETE FOOTING EXTENDS 6" BELOW FROST LINE AND IN COMPLIANCE WITH ALL LOCAL AND STATE CODES.

NOTE:
EQUIPMENT AND CONDUITS ON BACK NOT SHOWN FOR CLARITY PURPOSES.

1 / C7 H-FRAME DETAIL (FRONT)
SCALE: AS NOTED

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24062
OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
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Project Number: 502-005

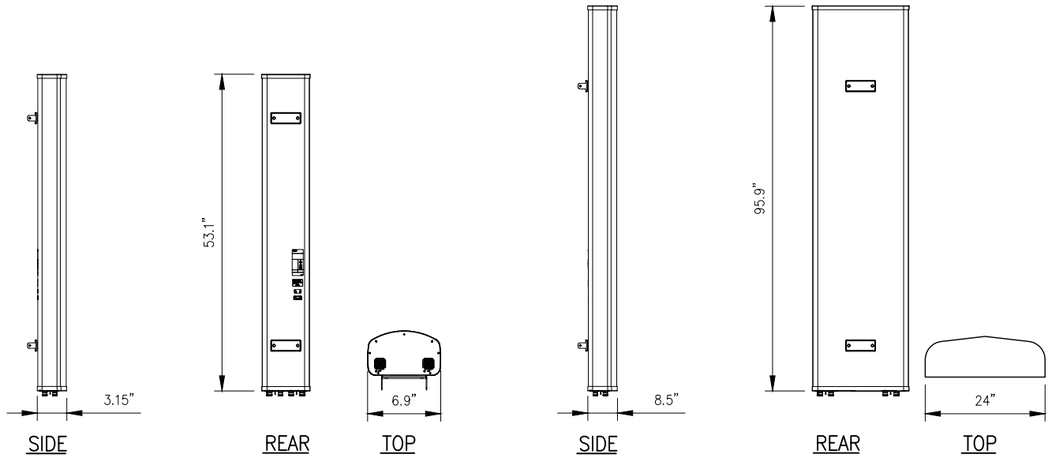
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
UTILITY RACK DETAIL

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C7



RFS MODEL NO.:	APXV18-206516S-C-A20
RADOME MATERIAL:	FIBERGLASS
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	(53.1"x6.9"x3.15")
WEIGHT, W/ PRE-MOUNTED BRACKETS:	19 LBS
CONNECTOR:	7-16 DIN FEMALE

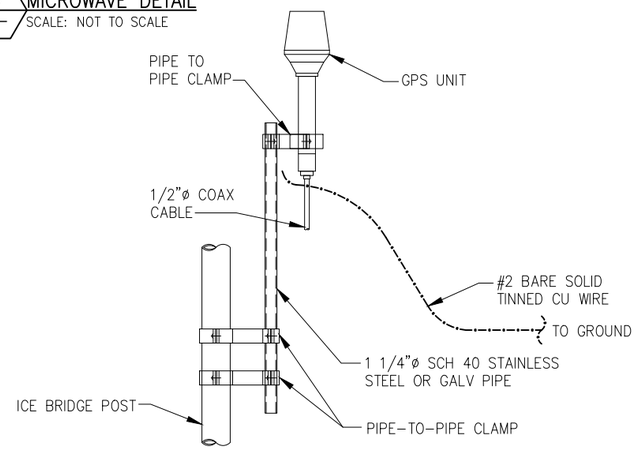
1 ANTENNA DETAIL
NOT TO SCALE

RFS MODEL NO.:	APXVAA24_43-U-A20
RADOME MATERIAL:	FIBERGLASS
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	(95.9"x24"x8.5")
WEIGHT, W/ PRE-MOUNTED BRACKETS:	125 LBS
CONNECTOR:	7-16 DIN FEMALE

2 ANTENNA DETAIL
NOT TO SCALE

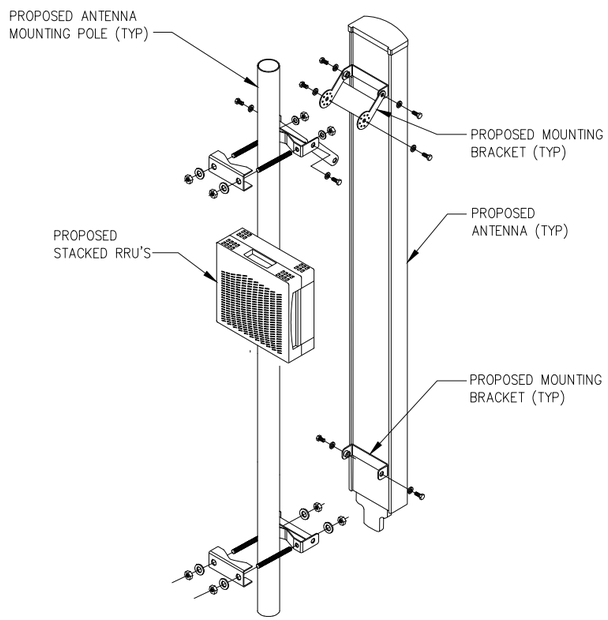
Specifications	IBR
RADIO	
Speed and Range	Typical: Scalable up to 1.6 Gbps at 500m range (NLOS) and 2km range (LOS), 900 Mbps at 3km range (LOS), 300Mbps at 13km range (LOS)[1]
Latency	Typical: <400µsec
Frequency bands	FDD+ (no A or B side) operation across all 5 GHz UNII bands
Antenna Beamwidth	20 degrees, steerable over 40 degrees
EIRP	FCC: Up to +42 dBm
Adaptive Rate Modulation	Supported via proprietary adaptive algorithms
Interference Mitigation	Supported via proprietary avoidance and cancellation algorithms
Diversity	Supported via proprietary antenna array signal processing
Security	AES-256 OTA Encryption
SWITCH	
Carrier Ethernet Features	Y.1731 and 802.1ag OAM, Q in Q, RFC 2544 reflection, QoS, Broadcast / Unknown / Multicast (BUM) filter, Configurable latency per queue
Interfaces	1 x GbE (Cu), 1 x GbE (SFP or Cu), 1 ALOS radio interface (see above)
QoS	802.1p and DSCP classification, strict priority scheduling, WDRR scheduling
Timing	1588v2 Transparent Clock
Management	HTTPS, ssh, Telnet, SNMP v2c & v3, IPv6, Dying Gasp
Dimensions (W x H x D)	200mm width, 260mm height, 90mm depth
Weight	4 kg
Power Input	IBR-1300: PoE IBR-1301: 90-240 VAC
Temperature	-40C to +60C operating -55C to +85C storage

3 MICROWAVE DETAIL
SCALE: NOT TO SCALE

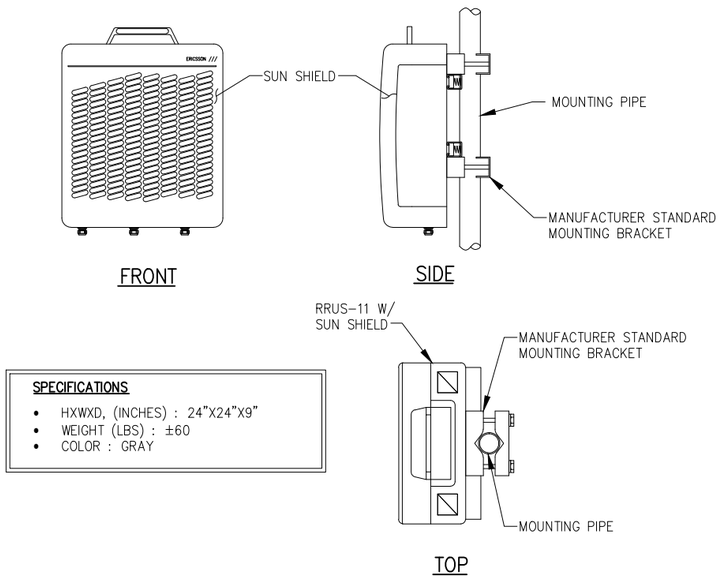


NOTES:
1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.
2. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A GROUND PLANE BOLTED TO A STANDARD 1-1/4" DIAMETER, SCHEDULE 40 GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.
3. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
4. DO NOT SWEEP TEST GPS ANTENNA.

6 GPS UNIT
NOT TO SCALE



4 MOUNTING DETAIL
NOT TO SCALE



SPECIFICATIONS
- HXWXD, (INCHES) : 24"X24"X9"
- WEIGHT (LBS) : ±60
- COLOR : GRAY

5 ERICSSON RRUS-11 DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT
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10/18/2018

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Project Number: 502-005

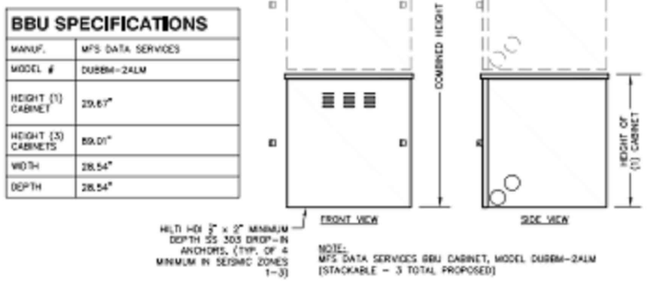
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
T-MOBILE
EQUIPMENT DETAILS

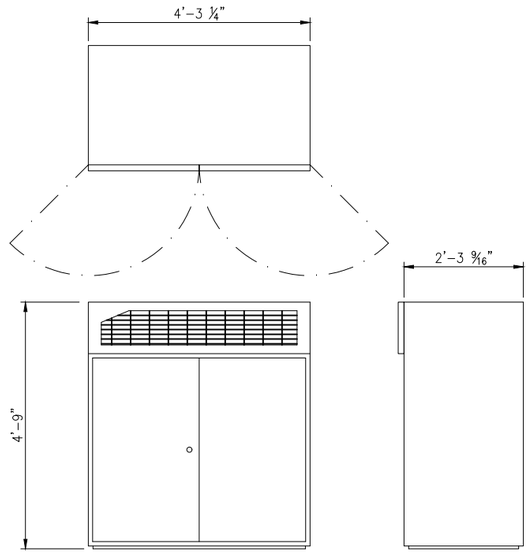
Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C8



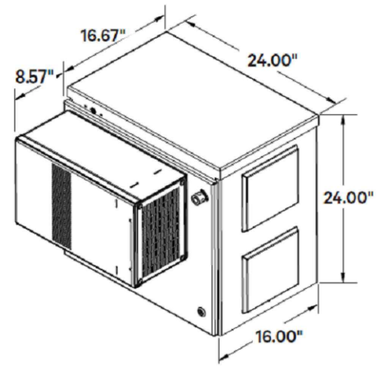
BBU SPECIFICATIONS	
MANUF.	MFS DATA SERVICES
MODEL #	DUBBM-24LM
HEIGHT (1) CABINET	29.67"
HEIGHT (3) CABINETS	89.01"
WIDTH	28.54"
DEPTH	28.54"

1 ERICSSON BBU CABINET DETAIL
NOT TO SCALE



ERICSSON MODEL NO.:	RBS 6102
DIMENSIONS, HxWxD:	4'-9"x4'-3 1/4"x2'-3 9/16"
WEIGHT:	772 LBs (W/O BATTERIES)

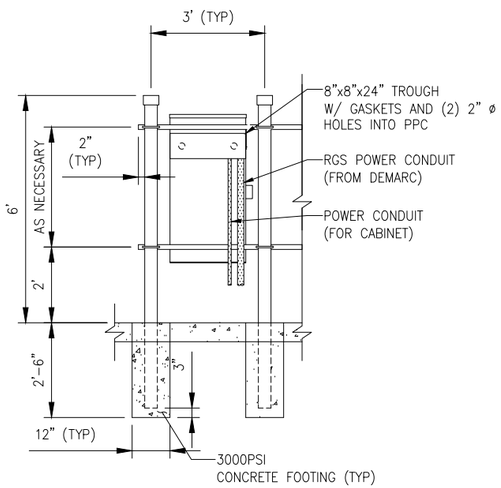
2 RBS 6102 DETAIL
SCALE: NOT TO SCALE



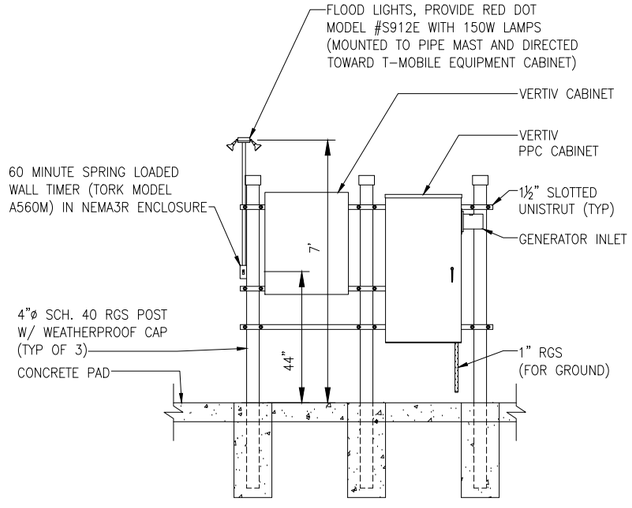
PHYSICAL CHARACTERISTICS	
Framework Type	NetXtend™ Compact Enclosure
Available Space	Up to 14 RU, 19" W
Dimensions (H x W x D)	Enclosure: 24" x 24" x 16" Battery tray: 22" W x 13" D
Mounting	Wall or H-frame, pole mount (wall-mount kit included)
Weight, Equipped	Enclosure: 64 lb., w/out batteries Four (4) batteries: 36 lb. total
Access	Front

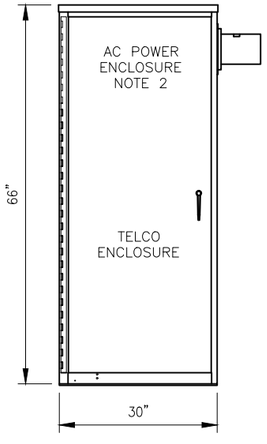
VERTIV MODEL NO.:	NETXTEND COMPACT 2416
DIMENSIONS, HxWxD:	24"x24"x16"
WEIGHT:	64 LBs W/O BATTERIES

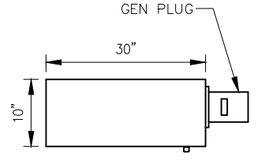
3 NETXTEND COMPACT BATTERY CABINET DETAIL
NOT TO SCALE



4 PPC BACKBOARD DETAIL
SCALE: NOT TO SCALE







VERTIV MODEL NO.:	CS2S2-W736
DIMENSIONS, HxWxD:	66"x30"x10"
WEIGHT:	150 LBs

NOTES

1. METER SOCKET BY THIS CONTRACT. METER TO BE SUPPLIED BY LOCAL UTILITY COMPANY.
2. AC POWER ENCLOSURE. 200 AMP, 208/120V, 1ø, 3W W/ GROUND. 200A/2P MAIN CIRCUIT BREAKER.
3. ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED.
4. ELECTRICAL EQUIPMENT SHALL BE MIN. 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES AND AHJ.
5. CONTRACTOR MUST LABEL ALIKE BREAKERS IN DISTRIBUTION PANEL.
6. REFER TO ACTUAL EQUIPMENT DRAWINGS.

5 PPC DETAIL
NOT TO SCALE

INFINIGY
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Phone: 518.690.0790 | Fax: 518.690.0793
www.infinigy.com

T-Mobile

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24503
LICENSED
PROFESSIONAL ENGINEER
OCT 5 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

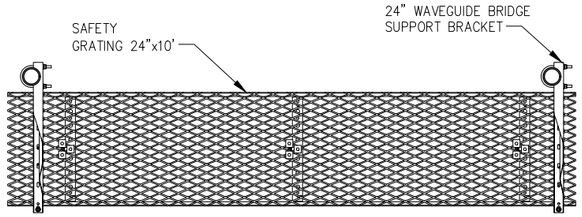
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

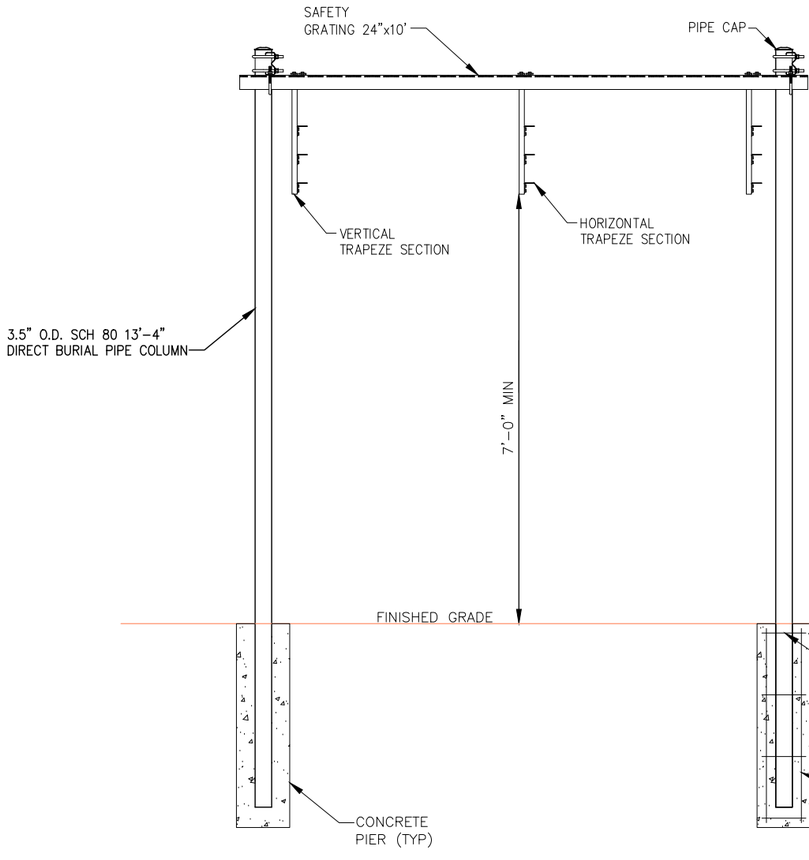
Drawing Title:
T-MOBILE
EQUIPMENT DETAILS

Drawing Scale:
Date: 10/18/18
CD

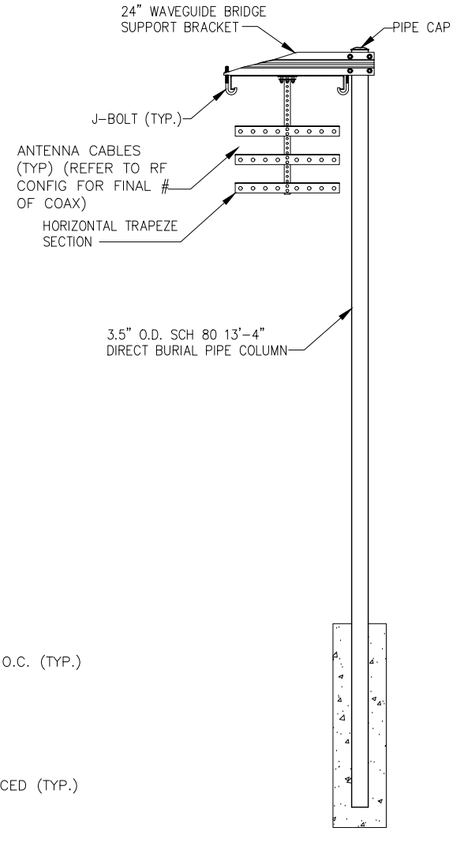
Drawing Number:
C9



TOP



FRONT



SIDE

NOTES:
1. USE SITE PRO 1 PARTS OR APPROVED EQUAL.

2. SUPPORT POSTS SHALL BE LOCATED ON ALTERNATING SIDES OF ICE BRIDGE, SPACED NO MORE THAN 6'-0".

3. ANY SPLICES OR CANTILEVERED SECTIONS OF THE ICE BRIDGE SHALL BE LOCATED WITHIN 2'-0" OF A SUPPORT POST.

1 / -- WAVEGUIDE BRIDGE KIT (SITE PRO P/N: IB24D-T3)
NOT TO SCALE

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24052
OCT 18 2018
LICENSED
PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

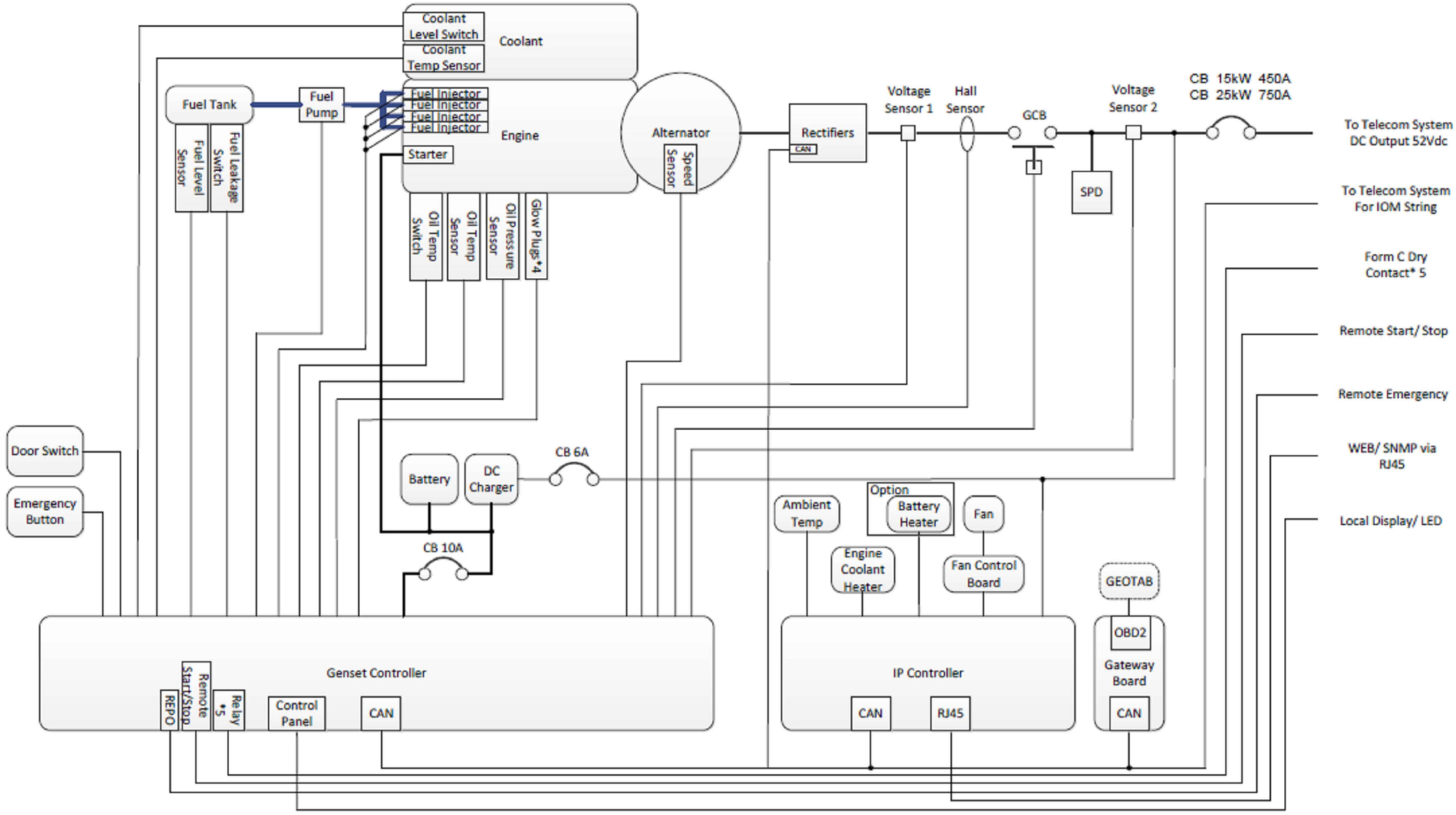
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
ICE BRIDGE DETAILS

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C10



1 GENERATOR BLOCK DIAGRAM
NOT TO SCALE

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www.infinigy.com

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24062
10/18/2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
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1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

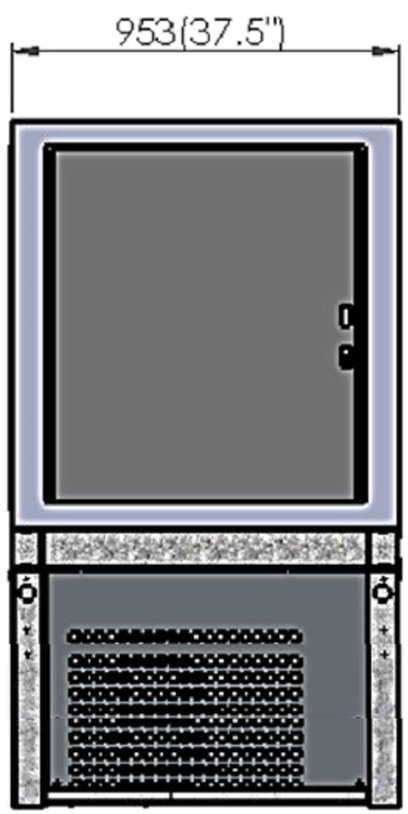
Prepared For:
Eco-Site

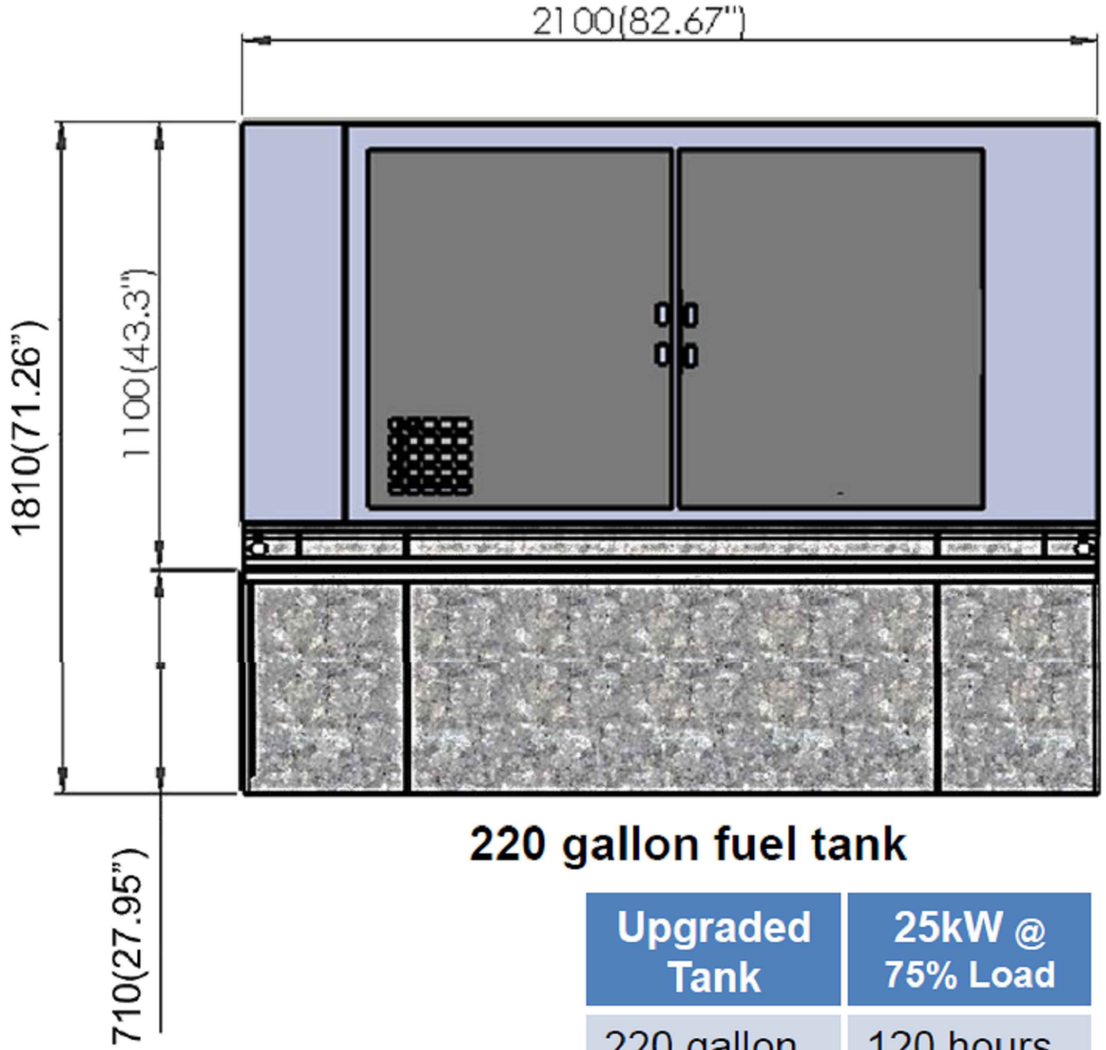
Drawing Title:
GENERATOR BLOCK DIAGRAM

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C11

220 Gallon Tank Dimensions
25kW DC Genset





220 gallon fuel tank

Upgraded Tank	25kW @ 75% Load
220 gallon	120 hours

1 GENERATOR DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24502
LICENSED
PROFESSIONAL ENGINEER
OCT 18 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
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0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

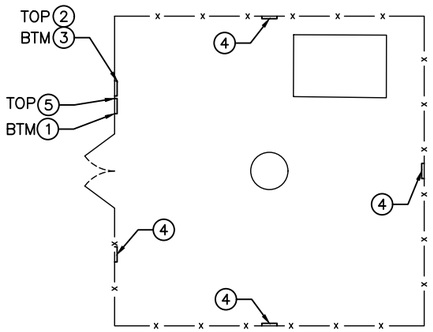
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title: GENERATOR DETAILS

Drawing Scale:
Date: 10/18/18
CD

Drawing Number: **C12**



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

① NOTICE – RF SIGN (BLUE)

12" x 18" DIGITAL PRINT MOUNTED TO 0.40 THICK ALUMINUM
(OPERATIONS PROVIDED)

② WARNING – RF SIGN

12" x 18" DIGITAL PRINT MOUNTED TO 0.40 THICK ALUMINUM
(OPERATIONS PROVIDED)

③ CAUTION – RF SIGN (YELLOW)

12" x 18" DIGITAL PRINT MOUNTED TO 0.40 THICK ALUMINUM
(OPERATIONS PROVIDED)

④ NO–TRESSPASSING SIGN

12" x 18" DIGITAL PRINT MOUNTED TO 0.40 THICK ALUMINUM
(OPERATIONS PROVIDED)

TOWER ID:
SITE NAME:
E911 ADDRESS:
FCC#:

Eco-Site

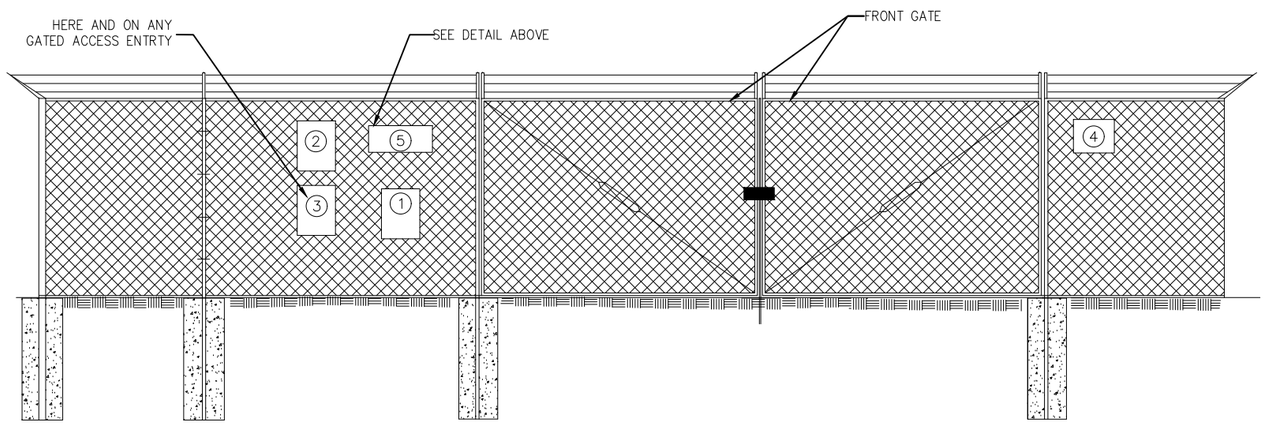
FOR TOWER LEASING INFORMATION &
EMERGENCY CONTACT
1-866-899-6191

⑤ ECO–SITE ID SIGN

18" HIGH X 24" WIDE
(OPERATIONS PROVIDED)

1 OVERALL SIGN PLACEMENT PLAN VIEW
NOT TO SCALE

2 TYPICAL SIGNS AND SPECIFICATIONS
NOT TO SCALE



3 SITE SIGNAGE FRONT GATE VIEW
NOT TO SCALE

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

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24108
10/18/2018
LICENSED PROFESSIONAL ENGINEER

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Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number:
502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For:
Eco-Site

Drawing Title:
SITE SIGNAGE DETAILS

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
C13

GRADING & EXCAVATING NOTES:

1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
5. –USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND
   –BE FREE FROM CLODS OR STONES OVER 2–1/2" MAXIMUM DIMENSIONS
   –BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
6. REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE–CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDDY VEHICLES LEAVING THE SITE.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

1. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

5. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
8. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
9. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
10. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND–DISTURBING ACTIVITIES.

SEEDING GUIDELINES:

FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOAMED AND SEEDED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4". RECOMMENDED SEEDING DATES FOR PERMANENT VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH OCTOBER 15. TEMPORARY VEGETATIVE MEASURES SHALL CONSIST OF AN ANNUAL OR PERENNIAL RYE GRASS WITH RECOMMENDED SEEDING DATES BEING FROM JUNE 1 THROUGH AUGUST 15 AND SEPTEMBER 30 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER MATERIAL

BEFORE SPREADING COVER MATERIAL OVER THE DESIGNATED AREA, OBTAIN A REPRESENTATIVE SOIL SAMPLE AND SUBMIT TO A REPUTABLE SOIL TESTING LABORATORY FOR CHEMICAL AND PHYSICAL ANALYSIS. THE PRELIMINARY TEST IS NECESSARY TO DETERMINE THE REQUIRED INORGANIC AND/OR ORGANIC AMENDMENTS THAT ARE NEEDED TO ASSIST IN ESTABLISHING THE SEED MIXTURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS pH AND FERTILIZATION NEEDS. THESE RESULTS SHALL BE KEPT ON–SITE B THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE COUNTY.

SEED BED PREPARATION

PROPOSED COVER MATERIAL SHOULD BE SPREAD EVENLY OVER THE SITE AREA IN A MINIMUM 4" LIFT VIA BULLDOZER/BUCKET LOADER. USING THE INFORMATION FROM THE SOIL ANALYSIS, CAREFULLY CALCULATE THE QUANTITIES OF LIMESTONE AND PRE–PLANT FERTILIZER NEEDED PRIOR TO APPLYING. PRE–PLANT AMENDMENTS CAN BE APPLIED WITH A BROADCAST AND/OR DROP SEEDER AND INCORPORATED WITH AN OFFSET DISK, YORK RAKE, AND/OR HAND RAKE. AFTER INCORPORATION THE PRE–PLANT SOIL AMENDMENTS, THE SEED BED SHOULD BE SMOOTH AND FIRM PRIOR TO SEEDING. THE FOLLOWING SEED MIXTURES SHALL BE USED AS NOTED:

SEED MIXTURE

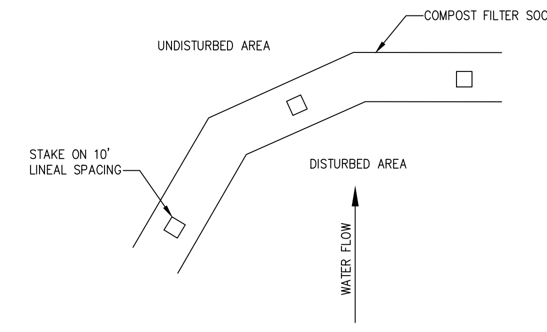
SPECIES/VARIETY	LBS/ACRE
CREEPING RED FESCUE	20
FESCUE	20
KENTUCKY BLUEGRASS	5
PERENNIAL RYEGRASS	

SEED TIME AND METHOD

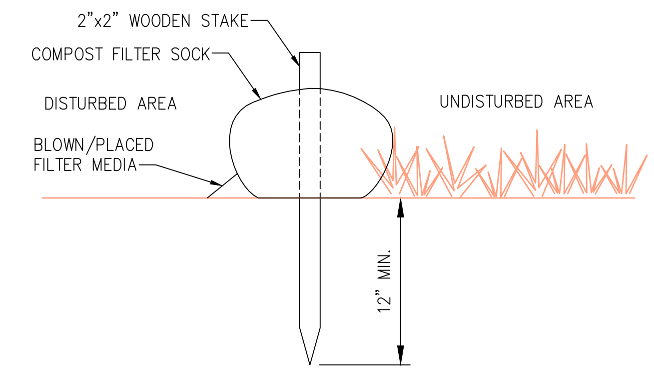
THE PREFERRED TIME FOR SEEDING THE COOL SEASON MIXTURE IS LATE SUMMER. SOIL AND AIR TEMPERATURES ARE IDEAL FOR SEED GERMINATION AND SEEDING GROWTH. WEED COMPETITION IS REDUCED BECAUSE SEEDS OF MANY WEED SPECIES GERMINATE EARLIER IN THE GROWING SEASON. ADDITIONALLY, HERBICIDE USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

MULCHING

NEWLY SEEDED AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT–BOUND AGROCHEMICALS AND SOIL EROSION. IF MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS, APPLY GOOD QUALITY STRAW OR HAY AT A RATE OF 2 BALES/1000 SQ. FT. OTHER COMMERCIALLY AVAILABLE MULCHES CAN BE USED.



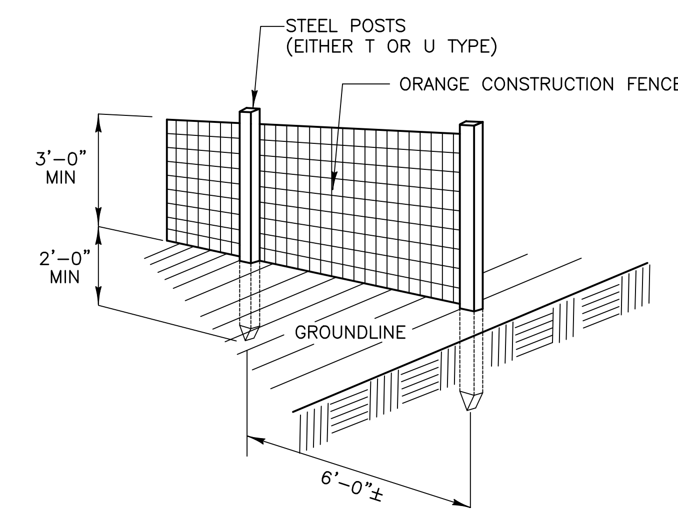
PLAN



SECTION

NOTES:
1. FILTER SOCK SHALL BE INSTALLED ON EXISTING LEVEL GRADE.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTO DEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

1 / –– COMPOST FILTER SOCK
NOT TO SCALE



2 / –– CONSTRUCTION FENCE DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT · JOHN S. STEVENS · No. 24703 · LICENSED PROFESSIONAL ENGINEER · OCT 18 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

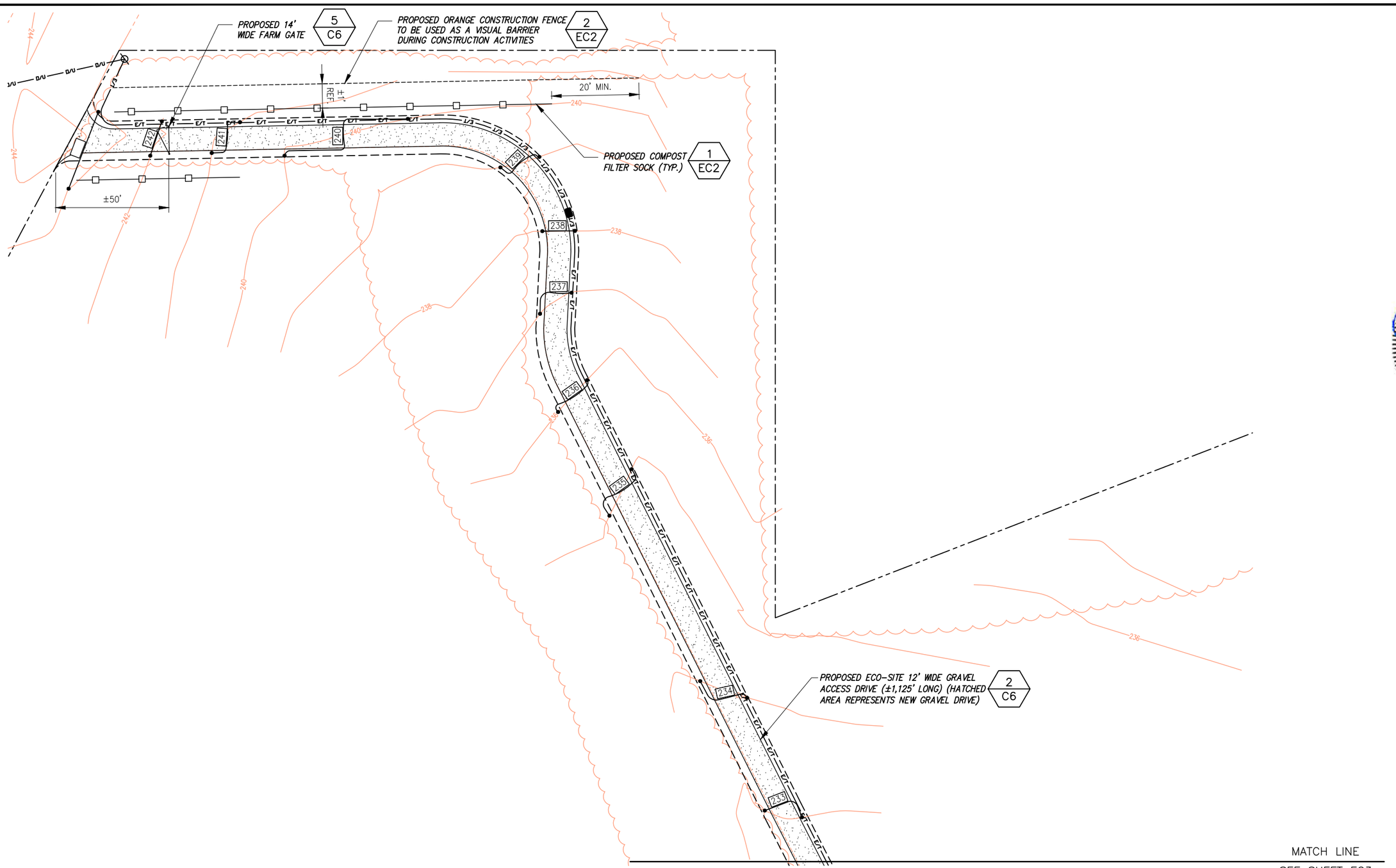
Prepared For:
Eco-Site

Drawing Title:
GRADING & EROSION SEDIMENT CONTROL NOTES & DETAILS

Drawing Scale:
Date: 10/18/18

CD

Drawing Number:
EC1



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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24502
OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

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Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

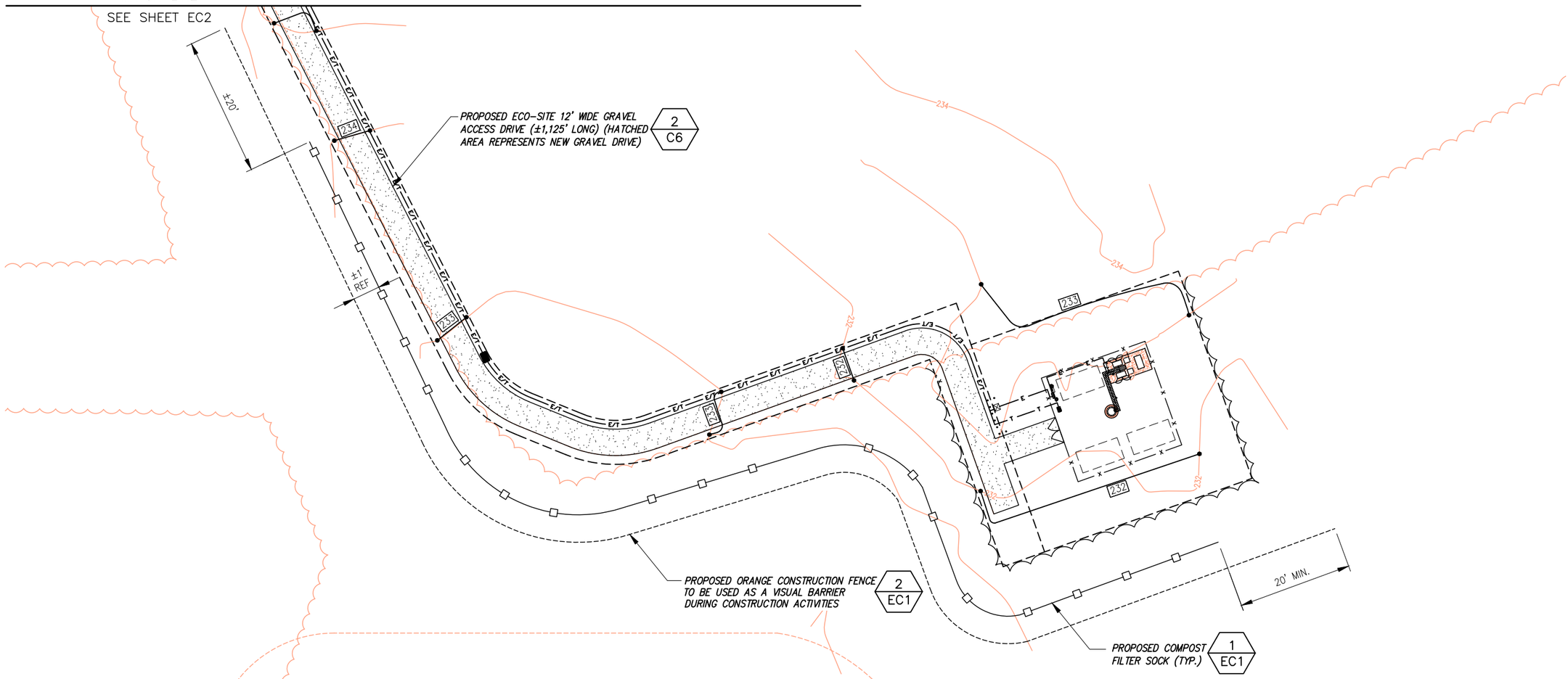
Prepared For:
Eco-Site

Drawing Title:
GRADING PLAN

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
EC2

MATCH LINE
SEE SHEET EC2



N
APPROX. NORTH

1 GRADING PLAN
SCALE: AS NOTED

CUT AND FILL QUANTITIES:
- ALONG ACCESS DRIVE THE AMOUNT OF CUT IS TO BE EQUAL TO THE AMOUNT OF FILL.
- AT THE COMPOUND THE AMOUNT OF CUT AND FILL IS ESTIMATED TO BE:
  CUT - 36 CUBIC YARDS
  FILL = 9 CUBIC YARDS

DRAWING SCALE
50 25' 0 25' 50'
SCALE (11x17): 1" = 50'-0"
SCALE (22x34): 1" = 25'-0"

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STATE OF CONNECTICUT
JOHN S. STEVENS
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OCT 18 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
GRADING PLAN (CON'T)

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
EC3

NOTE:
- ROUTE OF UTILITY IS TO FOLLOW ACCESS EASEMENT UNLESS OTHERWISE DIRECTED BY UTILITY COMPANY.

SHADED AREA REPRESENTS "INLAND WETLAND SOILS" FROM SOMERS CT GIS ONLINE DATABASE DELINEATION IN FIELD TO BE COMPLETED BY OTHERS. PER WETLAND INVESTIGATION BY OTHERS, NO WETLANDS EXIST ON THIS PARCEL.

NOTE:
- NO CONSTRUCTION IS TO BE COMPLETED BETWEEN THE DATE OF FEBRUARY 15TH & APRIL 15TH DUE TO VERNAL POOL.
- HOURS OF CONSTRUCTION SHALL BE FROM 8:00AM – 6:00PM EST.

UTILITY NOTES:
- ALL 90° BENDS SHALL BE RIGID CONDUIT
- INSTALL (2) 4" SCH 40 PVC FOR ELECTRIC & (1) 4" SCH 40 PVC FOR TELCO

APPROXIMATE LOCATION OF EXISTING UTILITY POLE (#NU/KOP/FL-11-14/SPSK-60/2-45), EXISTING FIBER OPTIC CABLE POINT OF CONNECTION ON THIS POLE

PROPOSED UTILITY POLE TO BE INSTALLED ON NORTHWEST CORNER OF EXISTING PROPERTY. (CONTRACTOR TO COORDINATE EXACT LOCATION WITH UTILITY COMPANY PRIOR TO INSTALLATION). GC TO SUPPLY AND INSTALL 4" RIGID STEEL RISER ON PROPOSED UTILITY POLE. INSTALL RIGID SWEEP TO CONNECT TO PROPOSED POWER CONDUIT.

PROPOSED OVERHEAD UTILITY ROUTE FROM EXISTING UTILITY POLE (#NU/KOP/FL-11-14/SPSK-60/2-45) TO PROPOSED UTILITY POLE (INSTALLED BY OTHERS)

PROPOSED 20' WIDE ACCESS AND UTILITY EASEMENT

GENERAL CONTRACTOR TO SUPPLY AND INSTALL PROPOSED PULLBOX PER EVERSOURCE REQUIREMENTS (INSTALL 300' FROM RISER ON UTILITY POLE)

PROPOSED CONDUITS FOR POWER AND TELCO AS FOLLOWS:

POWER:
- *(2) 4" SCH 40 CONDUITS TO BE SUPPLIED & INSTALLED BY GC. ALL 90 DEGREE BENDS TO BE RIGID CONDUIT. INSTALL FROM PROPOSED RISER ON NEW UTILITY POLE TO PAD MOUNTED TRANSFORMER AT COMPOUND.*
- *EVERSOURCE TO PROVIDE AND INSTALL CONDUCTORS FROM PROPOSED UTILITY POLE TO PAD MOUNTED TRANSFORMER AT COMPOUND.*

TELCO:
- *(1) 4" SCH 40 CONDUIT WITH (2) 1-1/4" INNERDUCT EACH WITH (1) 1500LB TENSILE STRENGTH (MIN) MULE TAPE TO BE SUPPLIED & INSTALLED BY GC*

1 / E4

GENERAL CONTRACTOR TO SUPPLY AND INSTALL PROPOSED PULLBOX PER EVERSOURCE REQUIREMENTS (INSTALL EVERY 500' FROM PREVIOUS PULL BOX)

PROPOSED ECO-SITE 100'x100' LEASE AREA

PROPOSED ELECTRICAL AND TELCO DEMARC AT COMPOUND

BASEMAPPING INFORMATION BASED ON INFORMATION OBTAINED FROM A SITE WALK COMPLETED BY INFINIGY ON 11/29/16 AND SITE SURVEY COMPLETED BY "CLIMAX DEVELOPMENT OF W.N.Y." TITLED: "BLUE RIDGE, SITE SURVEY".

N
APPROX. NORTH

1 — OVERALL UTILITY PLAN
SCALE: AS NOTED

DRAWING SCALE
100' 50' 0 50' 100'
SCALE (11x17): 1" = 100'-0"
SCALE (22x34): 1" = 50'-0"

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24052
OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

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Project Number: 502-005

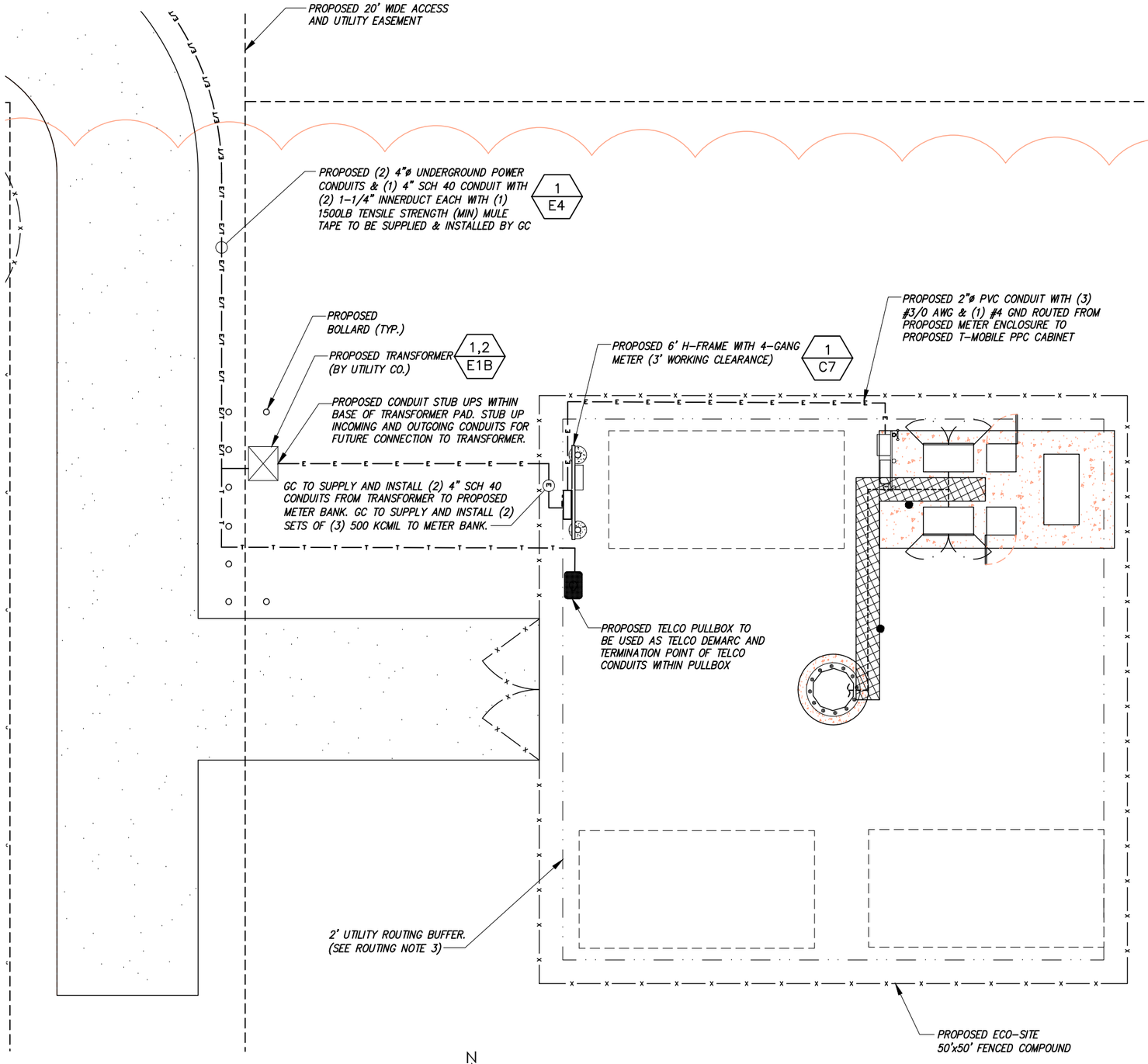
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
OVERALL UTILITY PLAN

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
E1



N

APPROX. NORTH

1 ENLARGED UTILITY PLAN

SCALE: AS NOTED

DRAWING SCALE

10' 5' 0 5' 10'

SCALE (11x17): 1" = 10'-0"

SCALE (22x34): 1" = 5'-0"

BASEMAPPING INFORMATION BASED ON INFORMATION OBTAINED FROM A SITE WALK COMPLETED BY INFINIGY ON 11/29/16 AND SITE SURVEY COMPLETED BY "CLIMAX DEVELOPMENT OF W.N.Y." TITLED: "BLUE RIDGE, SITE SURVEY".

NOTES AND SPECIFICATIONS:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE, AND LOCAL CODES.

2. CONTRACTOR SHALL OBTAIN OWNER/TENANT SPECIFICATIONS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS.

3. CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC UTILITY FOR THE EXACT TRANSFORMER LOCATION, METERING REQUIREMENTS, AND SERVICE ROUTING. CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR THE EXACT TELEPHONE REQUIREMENTS AND SERVICE ROUTING.

4. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER NEC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.

5. CONTRACTOR TO PROVIDE 2-200 LB TEST POLYETHYLENE PULL CORDS SECURELY FASTENED AT EACH END OF POWER AND TELCO CONDUIT. PROVIDE CAPS ON ENDS OF UNUSED CONDUIT.

6. CONTRACTOR TO PROVIDE A REBAR MARKER WITH AT LEAST 2 FEET EXPOSED ABOVE GRADE AND PAINTED BRIGHT ORANGE TO INDICATE LOCATION OF CONDUIT CAPPED BELOW GRADE.

7. PRIOR TO TRENCHING, CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR AT CONTRACTOR'S EXPENSE ANY DAMAGE TO EXISTING UTILITIES.

8. CONTRACTOR TO VERIFY EXACT ROUTING OF POWER AND TELCO CONDUIT WITH LOCAL UTILITIES AND OWNER/TENANT. ENSURE ALL CONDUIT STUB-UPS ACCOMMODATE EQUIPMENT REQUIREMENTS.

9. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE. USE SCHEDULE 80 PVC UNDER ROADS. USE LONG-SWEEP RIGID GALVANIZED STEEL (RGS) FOR ELBOWS. USE RGS FOR RISERS TO EQUIPMENT. MANUFACTURED BENDS SHALL HAVE A MINIMUM RADIUS OF 36" FOR CONDUIT.

10. CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE EQUIPMENT TO ALLOW WATER TO FLOW AWAY FROM THE EQUIPMENT AND SHELTER. EXCAVATE TRENCHES ALONG STRAIGHT LINES PRIOR TO INSTALLING CONDUIT TO ACCOMMODATE ADJUSTING THE ELEVATION, AS NEEDED.

11. CONDUIT ENTERING EQUIPMENT SHALL BE SEALED WITH A SEALANT THAT IS IDENTIFIED FOR USE WITH THE CABLE/CONDUCTOR INSULATION, SHIELDING, ETC.

12. THE OWNER SHALL FURNISH AND THE CONTRACTOR SHALL INSTALL ADDITIONAL SIGNAGE TO BE LOCATED AT THE COMPOUND FENCE. CONTRACTOR SHALL COORDINATE WITH OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER FOR PLACEMENT OF SIGNAGE.

13. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO THE LANDSCAPING AREA.

14. CONTRACTOR SHALL PROVIDE A LABEL TO READ: "OPENING THE SHELTER DISCONNECT WILL CAUSE THE SHELTER GENERATOR TO START. TO REMOVE POWER ENTIRELY FROM THE SHELTER, THE GENERATOR MUST
BE TURNED OFF AND THE GENERATOR BREAKER MUST BE OPENED."

15. CONTRACTOR SHALL ENSURE A MINIMUM 3' CLEARANCE IN FRONT OF ELECTRICAL PANELS PER NEC.

16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.

ROUTING NOTE:
1. CONTRACTOR TO PROVIDE PULL BOXES AS NEEDED TO ENSURE NO GREATER THAN 360 DEGREES OF BENDS BETWEEN PULL POINTS IN CONDUIT RUNS.
2. CONTRACTOR COORDINATE WITH LOCAL UTILITY COMPANY FOR SERVICE TO THIS POINT.
3. ALL CONDUIT TO BE RUN WITHIN 2' UTILITY BUFFER AS SHOWN ON CIVIL PLANS. CONDUIT SHOWN OUTSIDE OF 2' UTILITY BUFFER FOR CLARITY PURPOSES ONLY.

NOTE:
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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24503
LICENSED PROFESSIONAL ENGINEER
OCT 2018

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

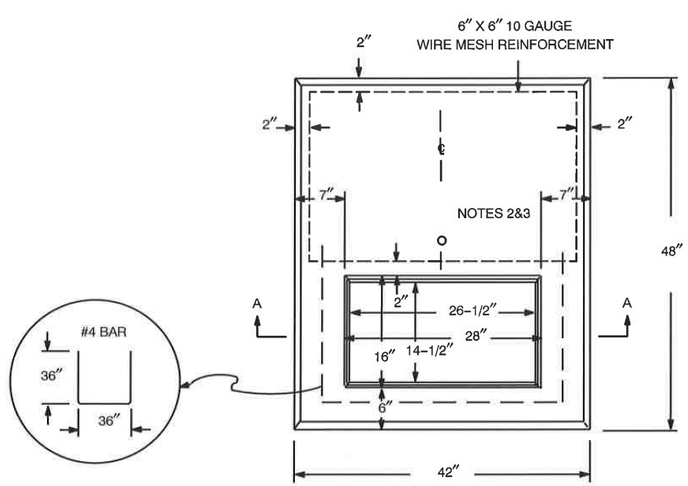
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

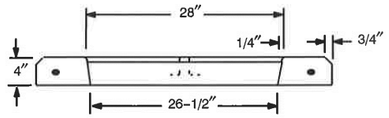
Prepared For: Eco-Site

Drawing Title:
ENLARGED UTILITY PLAN

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
E1A





SECTION A–A

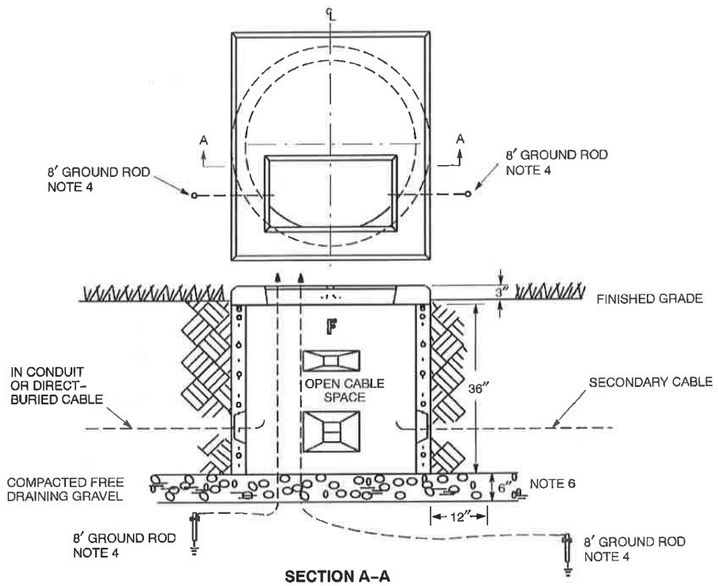
NOTES

1. Final 28 day concrete strength to be 5000 psi.
2. A 3/4 inch coil loop insert (Dayton F63) with an insert locator plug (Dayton T21) for lifting the pad at the center of gravity with a swivel plate.
3. Manufacturer's identification and month/year when manufactured shall be legibly marked in/on concrete in the top near the center.
4. Concrete and concrete design shall be in accordance with ACI 318–1986.

ORIGINAL 4/23/70	PAD – PRECAST CONCRETE – TRANSFORMER 167 KVA MAXIMUM – 42″ X 48″ X 4″			
APPROVED 8/1/91	EVERSOURCE ENERGY	MATERIAL SPECIFICATION	SPC P–009	11

1 TRANSFORMER PAD DETAIL
SCALE: AS NOTED

1/2″ : 1′



SECTION A–A

Notes

1. Install 42″ x 48″ x 4″ pad and 36″ D x 36″ H round handhole as per **SPC's H–020** and **P–009**.
2. **Primary Cable**
   a. Install direct–buried cables a minimum of 30 inches below grade.
   b. Install cables in conduit a minimum of 24 inches below grade.
   c. Loop cables in cable pit before making connections.
3. **Secondary Cable** – Leave slack for future reconnecting to transformers with higher secondary terminals.
4. **Galvanized Steel Ground Rods** – Install in trench and connect #6–4 copper conductors from rods through pad opening and extending 5 feet above bottom of handhole. Minimum separation of ground rods is 8 feet.
5. The following DTR/DSEM's should also be used:
   a. **DTR 33.211** – **600–VOLT CONNECTOR GUIDE – FOR NEMA PADS– SINGLE–PHASE PAD–MOUNT TRANSFORMERS**
   b. **DTR 44.221** – **FAULT INDICATOR GUIDE – SOLID DIELECTRIC CABLES**
   c. **DTR 58.107** – **15/23 KV MULTIGROUNDED – SINGLE–PHASE – DIRECT–BURIED SYSTEM – PAD–MOUNTED LOOP FED XF – CONNECTIONS**
   d. **DTR 58.195** – **GRADE ADJUSTMENT – SINGLE–PHASE – PAD–MOUNTED TRANSFORMER**
   e. **DSEM Section 07.30** – **CONVENTIONAL UG LOOPS**
   f. **DTR 56.221** – **JACKETED PRIMARY CABLE – GROUNDING**
6. The excavation for the pad shall be carried to a depth of 6 inches below the bottom of the pad. The bottom layer of backfill shall be compacted, clean gravel, free of foreign matter and construction debris, extending 12 inches beyond the circumference of the structure, and in accordance with Connecticut DOT Spec M.02.06 Grading "A"; or Massachusetts DPW Spec M1.03.0 Type b. The remaining backfill shall not contain ashes, cinders, shells, frozen material, loose debris, or stones larger than 2 inches in maximum dimension. It shall be compacted with mechanical tampers to not less than 95 percent of the maximum dry density as determined by the standard compaction tests, AASHTO T180 or ASTM D698.

ORIGINAL 1/9/96	INSTALLATION OF CONCRETE PAD FOR SINGLE–PHASE PAD–MOUNTED TRANSFORMERS			
APPROVED 9/30/04	EVERSOURCE ENERGY	CONSTRUCTION STANDARD	DTR 58.193	5

2 TRANSFORMER INSTALLATION DETAIL
SCALE: AS NOTED

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JOHN S. STEVENS
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LICENSED PROFESSIONAL ENGINEER
OCT 9 2018

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Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For:
Eco-Site

Drawing Title:
TRANSFORMER PAD DETAILS

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
E1B

NOTES AND SPECIFICATIONS:

1. THE GROUND RING SHALL CONSIST OF 2 AWG TINNED SOLID BARE COPPER CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE (OR BELOW FROSTLINE). ALL CONNECTIONS SHALL BE MADE USING AN EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.

2. GROUND CONDUCTOR BEND RADIUS SHALL NOT BE LESS THAN 8".

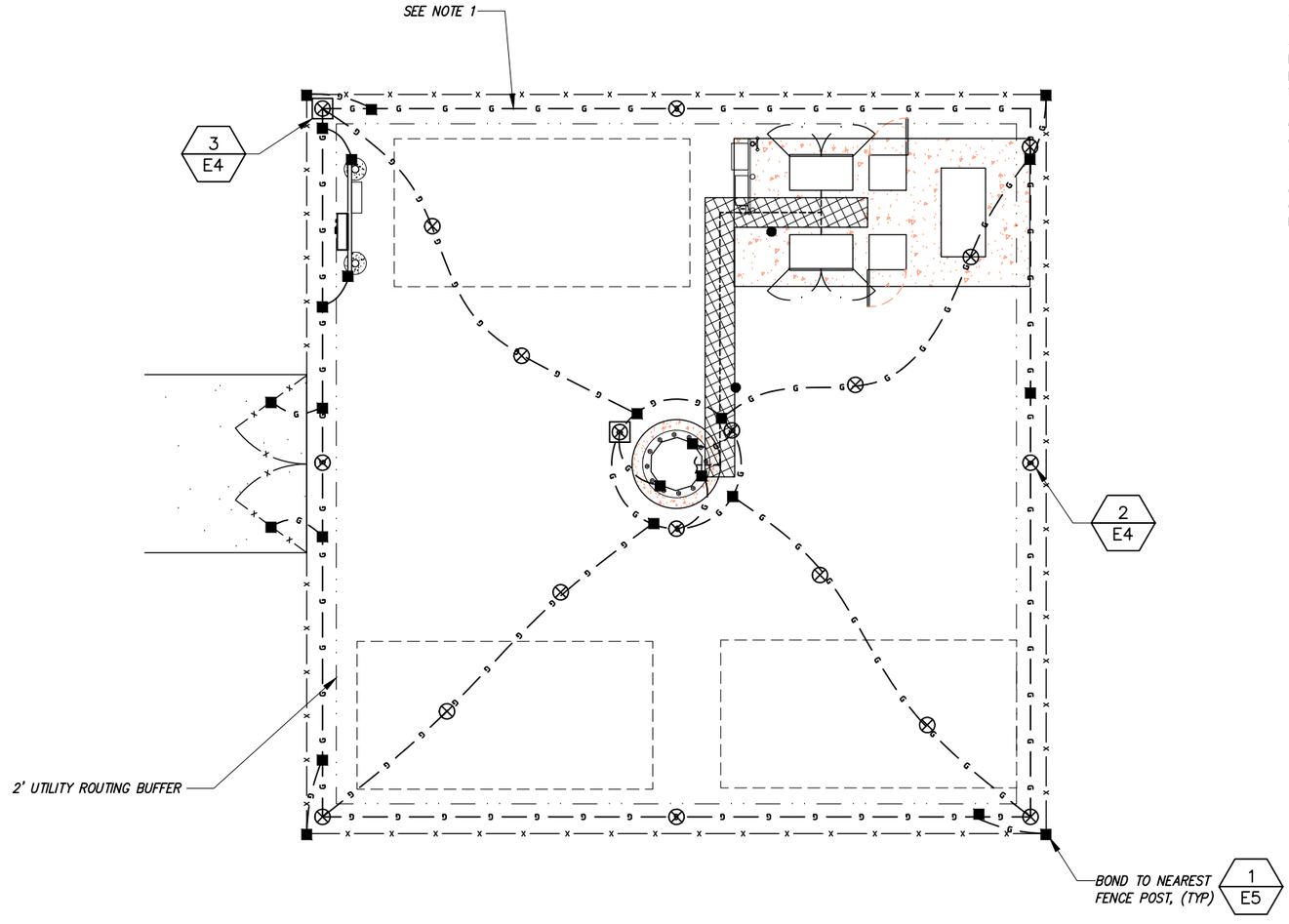
3. MINIMUM SPACING BETWEEN GROUND RODS SHALL NOT BE LESS THAN 10', UNLESS NOTED OTHERWISE.

4. CONTRACTOR SHALL BOND THE TOWER GROUND BAR (TOGB) TO THE GROUND RING USING A 2 AWG TINNED SOLID BARE COPPER CONDUCTOR AND AN EXOTHERMIC WELD.

5. SHELTER INTERIOR GROUNDING PROVIDED BY SHELTER SUPPLIER, SHOWN FOR CLARITY. CONTRACTOR SHALL BOND THE MAIN GROUND BAR (MGB) & EXTERNAL GROUND BAR (GB2) TO THE GROUND RING USING 2 AWG TINNED SOLID BARE COPPER CONDUCTORS AND EXOTHERMIC WELDS.

6. ALL GROUNDING/BONDING CONDUCTORS LOCATED ABOVE FINISHED GRADE SHALL BE RUN IN 1" PVC CONDUIT.

7. CONTRACTOR SHALL NOTIFY THE OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER TO ALLOW THE OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER TO INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.



GROUNDING SYMBOLS

- GROUND BAR
- GROUND ROD
- ACCESS WELL
- GROUND ROD WITH ACCESS
- COMPRESSION TYPE CONNECTION
- CADWELD TYPE CONNECTION
- #2 AWG BARE COPPER
- (#) INDICATES CODED NOTE

N

APPROX. NORTH

1 / -- SITE GROUNDING PLAN

SCALE: AS NOTED

DRAWING SCALE

10' 5' 0 5' 10'

SCALE (11x17): 1" = 10'-0"

SCALE (22x34): 1" = 5'-0"

NOTE:
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248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title: GROUNDING PLAN

Drawing Scale: ——— Date: 10/18/18

CD

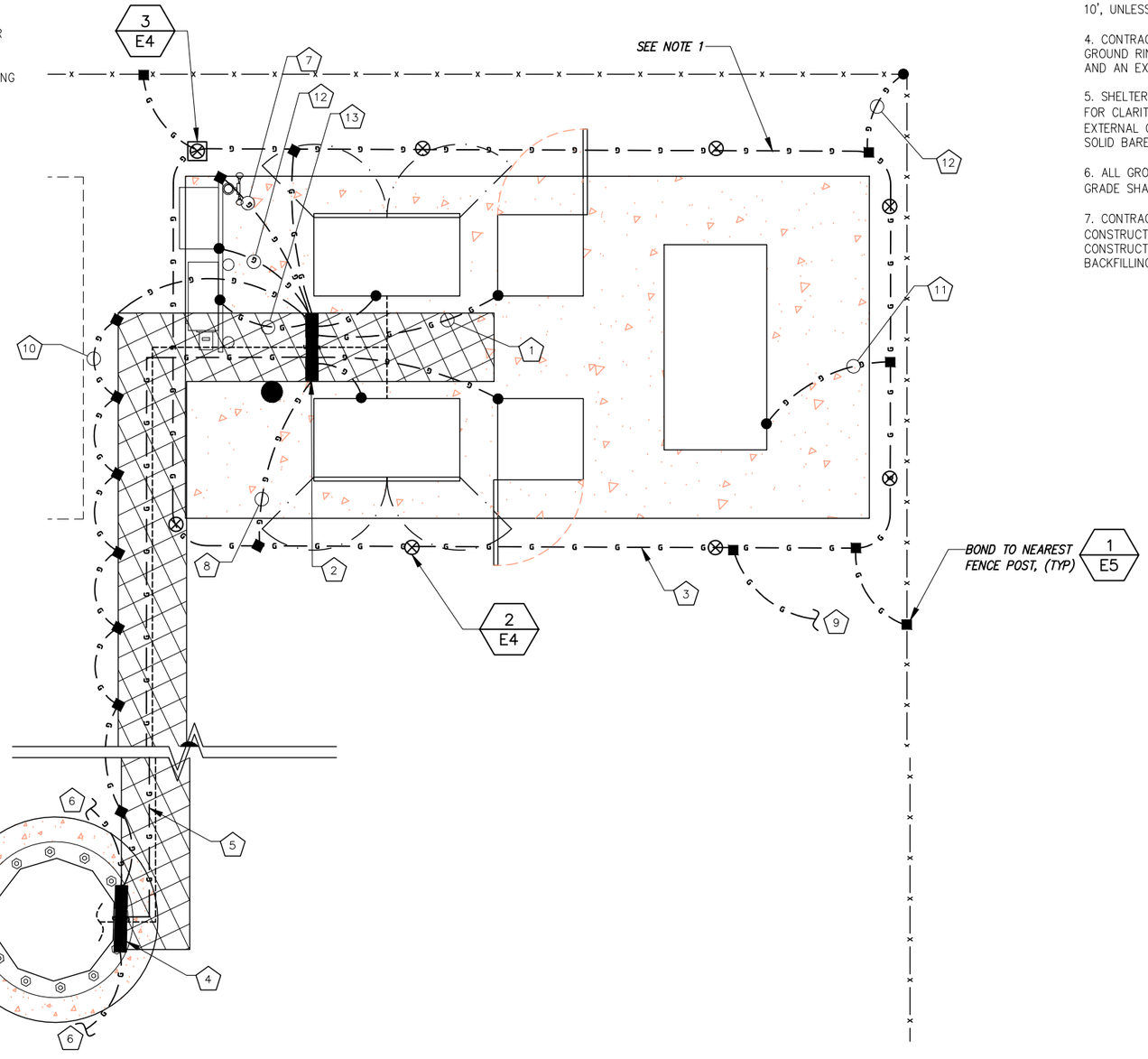
Drawing Number: **E2**

CODED DRAWING NOTES

1. PROPOSED T-MOBILE EQUIPMENT CABINETS TO BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS. (TYP.)
2. PROPOSED MAIN GROUND BAR, NEAR PROPOSED EQUIPMENT.
3. PROPOSED #4 SOLID TINNED BCW BURIED GROUND RING
4. PROPOSED SECONDARY GROUND BAR, AT BASE OF TOWER. (TYP.)
5. BOND PROPOSED SECONDARY GROUND BAR TO MAIN GROUND BAR
6. BOND PROPOSED SECONDARY GROUND BAR TO TOWER GROUND RING WITH PROPOSED #2/0 SOLID TINNED BCW (TYP. OF (2) PLACES).
7. BOND PROPOSED H-FRAME TO PROPOSED GROUND RING WITH #2/0 SOLID TINNED BCW (TYP.).
8. BOND PROPOSED MAIN GROUND BAR TO PROPOSED GROUND RING WITH #2/0 SOLID TINNED BCW (TYP. OF (2) PLACES).
9. BOND PROPOSED GROUND RING TO COMPOUND GROUND SYSTEM WITH #2/0 SOLID TINNED BCW (TYP. OF (2) PLACES).
10. BOND PROPOSED ICE BRIDGE TO PROPOSED GROUND RING WITH #2/0 SOLID TINNED BCW AS REQUIRED.
11. BOND PROPOSED GENERATOR TO PROPOSED GROUND RING WITH #2/0 SOLID TINNED BCW AS REQUIRED.
12. BOND PROPOSED EMERSON CABINET PER MANU. SPECS
13. BOND PROPOSED PPC CABINET PER MANU. SPECS

GROUNDING SYMBOLS

- GROUND BAR
- GROUND ROD
- ACCESS WELL
- GROUND ROD WITH ACCESS
- COMPRESSION TYPE CONNECTION
- CADWELD TYPE CONNECTION
- #2 AWG BARE COPPER
- (#) INDICATES CODED NOTE



1 SITE GROUNDING PLAN
SCALE: AS NOTED

NOTES AND SPECIFICATIONS:

1. THE GROUND RING SHALL CONSIST OF 2 AWG TINNED SOLID BARE COPPER CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 30" BELOW FINISHED GRADE (OR BELOW FROSTLINE). ALL CONNECTIONS SHALL BE MADE USING AN EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
2. GROUND CONDUCTOR BEND RADIUS SHALL NOT BE LESS THAN 8".
3. MINIMUM SPACING BETWEEN GROUND RODS SHALL NOT BE LESS THAN 10', UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL BOND THE TOWER GROUND BAR (TOGB) TO THE GROUND RING USING A 2 AWG TINNED SOLID BARE COPPER CONDUCTOR AND AN EXOTHERMIC WELD.
5. SHELTER INTERIOR GROUNDING PROVIDED BY SHELTER SUPPLIER, SHOWN FOR CLARITY. CONTRACTOR SHALL BOND THE MAIN GROUND BAR (MGB) & EXTERNAL GROUND BAR (GB2) TO THE GROUND RING USING 2 AWG TINNED SOLID BARE COPPER CONDUCTORS AND EXOTHERMIC WELDS.
6. ALL GROUNDING/BONDING CONDUCTORS LOCATED ABOVE FINISHED GRADE SHALL BE RUN IN 1" PVC CONDUIT.
7. CONTRACTOR SHALL NOTIFY THE OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER TO ALLOW THE OWNER/TENANT ECO-SITE CONSTRUCTION MANAGER TO INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.

NOTE:
- ROUTE OF UTILITY IS TO FOLLOW ACCESS EASEMENT UNLESS OTHERWISE DIRECTED BY UTILITY COMPANY.

NOTE:
- NO CONSTRUCTION IS TO BE COMPLETED BETWEEN THE DATE OF FEBRUARY 15TH & APRIL 15TH DUE TO VERNAL POOL.
- HOURS OF CONSTRUCTION SHALL BE FROM 8:00AM – 6:00PM EST.

BASEMAPPING INFORMATION BASED ON INFORMATION OBTAINED FROM A SITE WALK COMPLETED BY INFINIGY ON 11/29/16 AND SITE SURVEY COMPLETED BY "CLIMAX DEVELOPMENT OF W.N.Y." TITLED: "BLUE RIDGE, SITE SURVEY".

DRAWING SCALE

10' 5' 0 5' 10'

SCALE (11x17): 1" = 10'-0"
SCALE (22x34): 1" = 5'-0"

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24502
10/18/2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

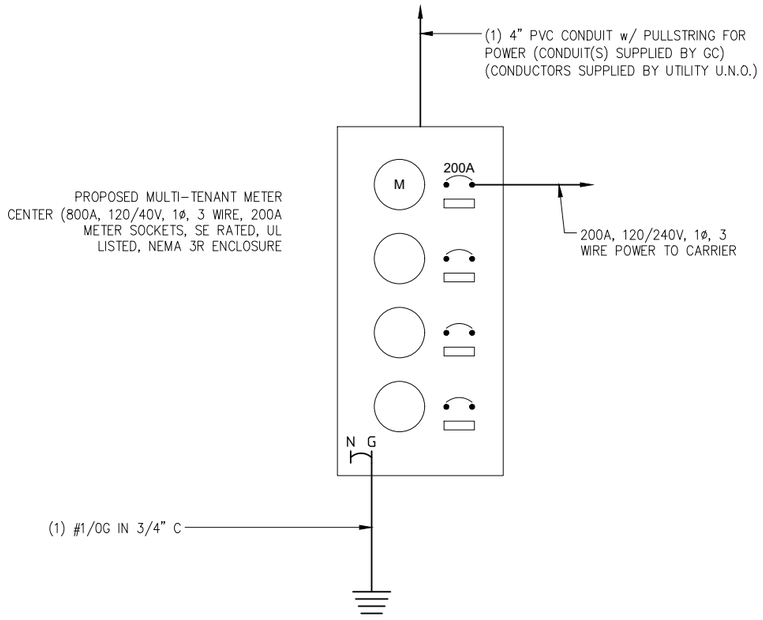
Prepared For: Eco-Site

Drawing Title:
T-MOBILE
GROUNDING PLAN

Drawing Scale:
Date: 10/18/18

CD

Drawing Number:
E2A



NOTES AND SPECIFICATIONS:

1. ELECTRIC UTILITY WILL PROVIDE METER AND INCOMING SERVICE LATERAL CONDUCTORS.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, STATE AND LOCAL CODES.
3. CONTRACTOR SHALL OBTAIN OWNER/TENANT EQUIPMENT DRAWINGS AND REVIEW FOR ADDITIONAL DETAILS AND REQUIREMENTS THAT MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL COMPLY WITH ANY ADDITIONAL OWNER/TENANT SPECIFICATIONS AND REQUIREMENTS THAT MAY BE ADDRESSED IN THE EQUIPMENT DRAWINGS.
4. PRIOR TO PURCHASING EQUIPMENT, THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY AND OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. PROVIDE MAX AFC SIGNAGE AS REQUIRED PER ENC 110.24. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 10,000 AMPS.
5. THE GROUNDED SERVICE CONDUCTOR (NEUTRAL CONDUCTOR) SHALL BE GROUNDED AT THE SERVICE DISCONNECT ONLY.
6. ALL POWER CIRCUITS SHALL USE COPPER CONDUCTORS WITH THHN/THWN INSULATION. ALL TERMINATIONS SHALL BE RATED FOR AT LEAST 75°C.
7. CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES FOR ALL UTILITY RECEPTACLES.
8. CONTRACTOR SHALL ENSURE ALL NEUTRAL CONDUCTORS HAVE WHITE INSULATION AND EQUIPMENT GROUND CONDUCTORS HAVE GREEN INSULATION. COLOR TAPE IDENTIFICATION OF THESE CONDUCTORS IS NOT ALLOWED.
9. PER NEC ARTICLE 702 PROVIDE SIGNAGE AS FOLLOWS:

AT SERVICE DISCONNECT:

> WARNING – SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

1 / -- ONE LINE DIAGRAM

SCALE: AS NOTED

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24062
OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
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0	FOR PERMIT	SKB	5/9/18

Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

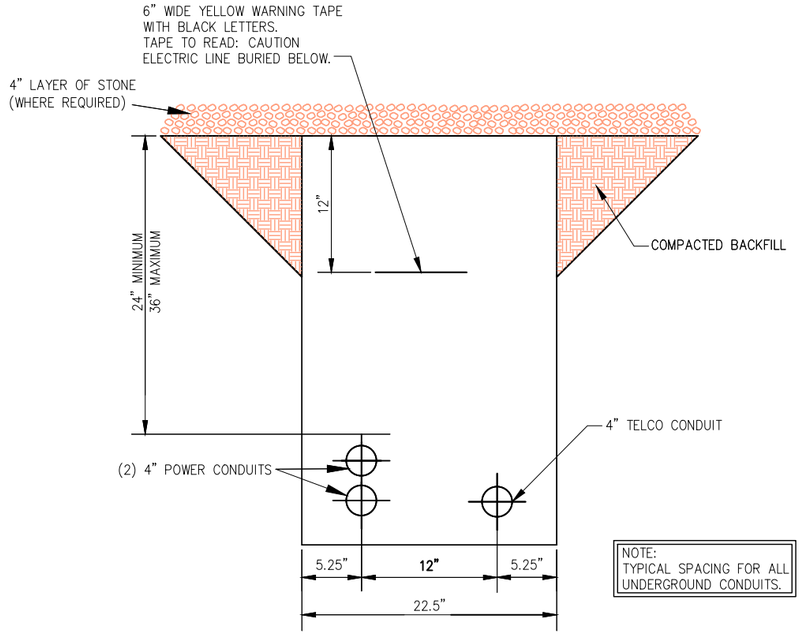
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For:
Eco-Site

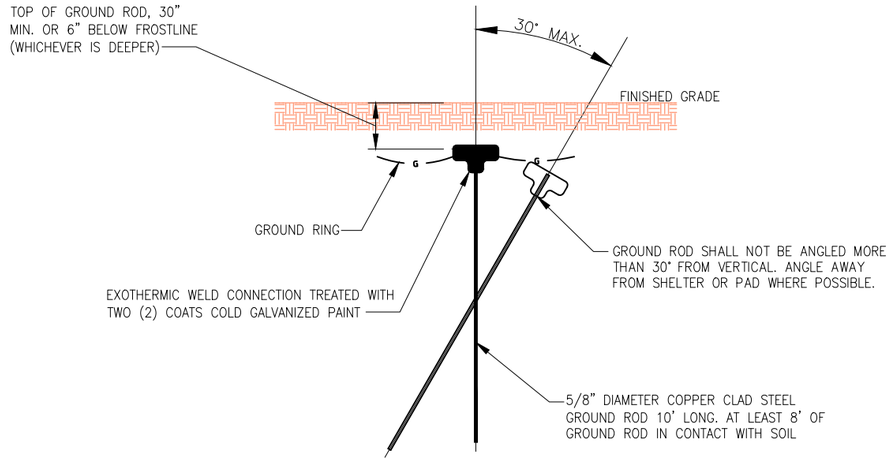
Drawing Title:
GROUNDING PLAN

Drawing Scale:
Date: 10/18/18
CD

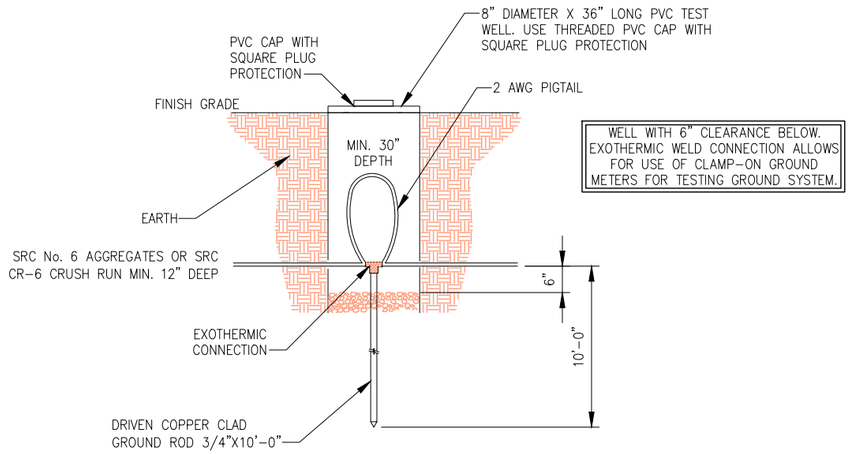
Drawing Number:
E3



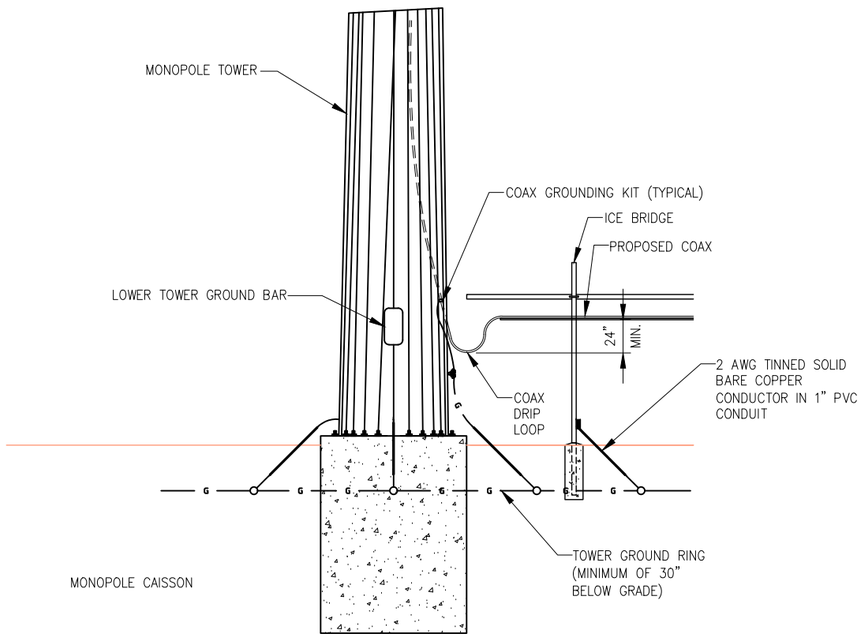
1 UTILITY TRENCH DETAIL (TYP.)
NOT TO SCALE



2 GROUND ROD DETAIL
NOT TO SCALE



3 GROUND ROD TEST WELL
NOT TO SCALE



4 DRIP LOOP DETAIL
NOT TO SCALE

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STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24508
10/18/2018
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PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
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Drawn: SKB Date: 5/9/18
Designed: AJD Date: 5/9/18
Checked: AJD Date: 5/9/18

Project Number: 502-005

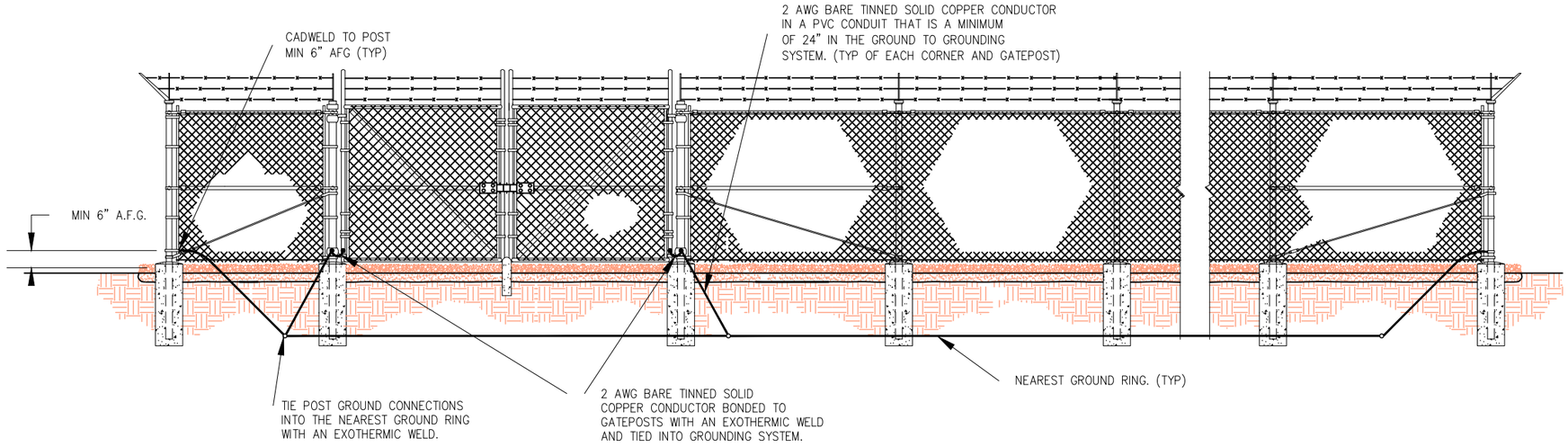
Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
GROUNDING DETAILS

Drawing Scale:
Date: 10/18/18
CD

Drawing Number:
E4



1 FENCE GROUNDING DETAIL
SCALE: AS NOTED

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STATE OF CONNECTICUT
JOHN S. STEVENS
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OCT 18 2018
LICENSED PROFESSIONAL ENGINEER

No.	Submittal / Revision	App'd	Date
3	REVISED PER COMMENTS	SKB	10/18/18
2	REVISED PER COMMENTS	SKB	09/17/18
1	ISSUED FOR CONSTRUCTION	SKB	06/13/18
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Drawn: SKB Date: 5/9/18
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Project Number: 502-005

Project Title:
BLUE RIDGE
CT-0005A
248 HALL HILL ROAD
SOMERS, CT 06071

Prepared For: Eco-Site

Drawing Title:
GROUNDING DETAILS

Drawing Scale: ———
Date: 10/18/18
CD

Drawing Number:
E5