

June 20, 2013

Maine Land Use Planning Commission c/o Karen Bolstridge, Regional Representative 106 Hogan Rd, Suite 7 BMHI Complex Bangor, Maine 04401

Re: Maine RSA #4, Inc. d/b/a U.S. Cellular Corporation (USCC) - Telecommunication Facility

Dear Land Use Planning Commission:

On behalf of Maine RSA #4, Inc. d/b/a U.S. Cellular Corporation ("USCC"), I am pleased to submit this application for the proposal to construct a 250' Telecommunications Facility on the property owned by Christopher Cochran located off of West Street in the Big Lake Township, Washington County, identified as Map 04, Lot 25.

USCC has leased from Mr. Cochran a 40,000 square foot area for the installation of the 250' Telecommunications Tower.

A pdf file of the Application and Site Plan has been provided to you via e-mail. Included with this letter is a hard copy of the Application and supporting documents and an 11"X17" copy of the Site Plan. Also included is a check to cover the cost of Application

Please contact me for any additional material or information.

Thank you for your consideration of this application.

Respectfully submitted,

PHONE: 207.582.0056 FACSIMILE: 207.582.9098

Jim Hebert / Black Diamond Consultants, Inc. Duly Authorized Agent for RSA #4 d/b/a U.S.

Cellular

Big Lake Township

Site ID #424342

Application For Wireless Telecommunication Site Plan To Construct a 250' Telecommunication Facility

Off of West Street (Map 04, Lot 25)

Applicant

Maine RSA #4, Inc. d/b/a U.S. Cellular By It's Duly Authorized Agent Black Diamond Consultants, Inc. 312 Water Street Gardiner, ME 04345



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ATTACHMENT # 1 APPLICATION FOR LUPC PERMIT

Tracking No. For office use Permit No

Permit Application

for residential and non-residential development

 APPLICANT INFORM 	MAT	ION
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Applicant Name(s)

Daytime Phone

FAX

F-mail

Maine RSA #4, Inc. d/b/a U.S. Cellular Corporation (USCC)

603-555-2250

603-533-2277

Mailing Address

Attention: Real Estate, 8410 West Bryn Mawr Avenue, Suite 700, Chicago, Illinois, 60631

AGENT AUTHORIZATION AND APPLICANT SIGNATURES 2.

Agent Name

Mailing Address

Black Diamond Consultants, Inc.

Daytime Phone 207-582-0056

FAX 207-582-9098

E-mail irhebert@blckdiamond.net

312 Water Street, P.O. Box 57, Gardiner, ME 04345

All persons listed on the deed, lease or sales contract as owners or lessees of the property must read the statement and sign below.

I hereby duthorize the above-listed individual to act as my legal agent in all matters relating to this permit application. I have personally examined and am familiar with the information submitted in this application, including the accompanying exhibits and supplements, and to the best of my knowledge and belief, this application is true and accurate. I understand that I am ultimately responsible for complying with all applicable regulations and with all conditions and limitations of any permits issued to me by LURC.

Applicant Signature(s)

Please see attached letter of Authorization.

Date 6/19/13

PROJECT LOCATION AND DESCRIPTION

Describe in detail what you are proposing and the purpose of the work to be accomplished (use additional paper if you need more space). U.S.Cellular proposes to construct a 250 foot Telecommunications Facility in Big Lake Township in Maine. The facility will include the installation of a 250' tower, equipment shelter, coaxial cables, electric power, telephone service, fencing, parking area, and site access road on land identified as Map 04, Lot 25. Facility objective is to provide cellular phone coverage to the town of Princeton and along Route 1.

Township, Town or Plantation

County

Lessor and Lease Lot Numbers (check your lease)

Big Lake Township, Washington Mr. Christopher Cochran, Map 04, Lot 25

Tax Plan and Lot Numbers (check your tax bill)

Book and Page Numbers (check your deed)

Map 04, Lot 25

Book 1885 - Page 171

Lot Size (in acres, or in square feet if less than 1 acre) Lease area - 40,000 sq.ft.

Road Frontage. Is your property adjacent to any roads, streets or

Zoning (check a LURC map - list all subdistricts covering your property) No zones intersect this parcel of land

other rights-of-way (including any camp roads)? □ Yes

Water Frontage. Is there a lake, pond, river, stream, brook, or other water body on or adjacent to your lot? □ Yes

If yes, write the name and frontage (in feet) for each road:

If yes, write the name and frontage (in feet) for each water body:

If no, describe how you access your property: From West Street and through property shown on Map 04, Lot 23

LAND DIVISION HISTORY

Using your deed as a starting point, trace the ownership history and configuration changes of your property back to 20 years from today. List all changes in ownership and all divisions of those lots from which your property originated (use additional paper if you need more space).

Description of Transaction (including seller's and buyer's names)

Date of sale or lease

Lot size

x No

Please refer to information under Attachment (4)

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		er to Attachment o on light fixtures			Please refer to Attachment (05) for into on facility signs							
8. SEW	AGE DISPOS	AL FOR NEW A	ND ALT	ERED	STRUC	TURI	ES					
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□ Yes X□ No

Are you proposing first-time development or making substantial improvements to any existing development within a mapped FEMA floodplain?

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		or any other fea		perty screen the p	proposed development	from view from	□ Yes	□ No
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			ntal & Civil Details, E nagement Practices		tation Controls in accordar	nce with "Maine Ero	sion and Sedimen	t Control
Please	see dwg. EN	V-1A, Environment			proposed erosion and on Controls in accordance v			
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ate any fa	cts that fu				eview of your applicati	ion (Use additional p	aper if needed)	

15. REQUIRED FEES, EXHIBITS AND SUPPLEMENTS

Submit all necessary fees, exhibits and supplemental information with this application, as described in the instructions.



To Local Government

RE: Representation Authorization

This letter authorizes Pam Chambers, Chad Hébert, Aaron Cady and James Hébert with Black Diamond Consultants to represent our interests before the Local Government permitting authorities with regard to cellular communication site acquisition, permitting, and construction in the State of Maine.

If you have any questions, please contact me.

Sincerely,

Richard F. Houde

Project Manager, Maine

U.S. Cellular Corporation

100 Gannett Street (Suite B)

South Portland, ME 04106

ATTACHMENT #2

REQUIRED FEES, SUPPLEMENTS, EXHIBITS, AND RESPONSES

LUPC APPLICATION FEE FOR BIG LAKE TOWNSHIP SITE

(LUPC APPLICATION FEE BASED ON LUPC GENERAL APPLICATIONS SECTION 1.04.B.8 "UTILITY FACILITIES PERMIT APPLICATIONS")

•		FEE\$500 R HEIGHT (\$1.00 per foot of Tower Height) – (250'X \$1.00/ft) \$250	
•	0	TRUCTURE FOOTPRINTS (@ \$0.40/ft. of Footprint) 12' X 20' Shelter = (240ft ² X \$0.40/ft ²) =	00
		TOTAL \$89	6.00

APPLICATION FEE PAYED BY BDC CHECK # 12106



Kennebec Savings Bank

EZSheld^{as} (Dack Fraud Protection for Sushess

52-7442-2112

6/18/2013

PAY TO THE ORDER OF

Treasurer State of Maine

\$ **896.00

DOLLARS

Treasurer State of Maine Attn: Financial Services 155 State House Station Augusta, ME 04333 å A

MEMO

Princeton LURC Application Permit Fee

[check signature, routing# and bank account# have been removed]

APPLICATION FOR A LURC PERMIT REQUIRED FEES, EXHIBITS AND SUPPLEMENTS

APPLICATION FEE

A check payable to the "Treasurer, State of Maine" is provided for the Application Fee for Utilities Facilities Permit.

EXHIBIT A: LOCATION MAP.

A map clearly marking the boundaries of the property is provided under Attachment (21). See also Attachment (3) for additional information.

EXHIBIT B: DEED, LEASE OR SALES CONTRACT.

See Attachment (6) for Letter of Authorization from Mr. Christopher Cochran for installation of the proposed Telecommunications Facility.

EXHIBIT C: SITE PHOTOGRAPHS.

See Attachment (7) for photographs taken within the past two years that show the features of the leased property.

EXHIBIT D: SITE PLAN.

See Attachment (8) for Site Plan on an 8 ½ X 11 inch sheet of paper. See also engineering drawings under Attachment (21) for detail site plan information. The areas to be cleared of vegetation with resulting soil exposure during construction are the 100 X 100 square foot area for the facility compound and the 12 X 575 foot driveway. Erosion and sedimentation controls will provided as noted in Eng. Dwg. ENV-1A, "Environmental & Civil Details".

EXHIBIT E: SEWAGE DISPOSAL.

The proposed facility will not include bedrooms, bathrooms, plumbing or water fixtures, or other wise generate waste water.

EXHIBIT F: FLOOD ELEVATION CERTICATE.

The proposed facility is not located in a mapped FEMA floodplain. See Attachment (9) for supporting information.

EXHIBIT G: DOCUMENTATION FOR EXCEPTIONS TO BUFFERING REQUIREMENTS.

Existing property vegetative buffers will buffer the facility site from adjacent property lines, with the exception of the upper section of the tower. Please refer to attached Supplement S-2, Item (17) for information relative to the necessity of keeping upper tower sections visibly exposed to allow telecommunications transmission.

EXHIBIT H: EROSION AND SEDIMENTATION CONTROL PLAN.

Soil disturbance estimated to be less than 1 acre of total soil disturbance.	

REQUIREMENTS FOR NON-RESIDENTIAL DEVELOPMENT Supplement S-2

TECHNICAL AND FINANCIAL CAPACITY

- 1. Will you hire any consultants, contractors or staff to design and construct the proposed development? If yes, summarize the previous experience and training of your staff. If no, summarize your own previous experience and training in construction.
 - (a) Black Diamond Consultants (BDC) has been hired to provide this Application for a LUPC Permit and to perform site surveys, Historic Preservation Section 106 evaluations, NEPA Environmental Threshold screening, and Phase I Environmental Assessment for Hazardous and Petroleum Wastes. In addition, BDC will develop the engineering drawings for site development. Please refer to Attachment (10) for BDC previous experience and training.
 - (b) The Construction Contractor for the facility will be selected after approval of the site for construction and upon successful bid for the construction.
- 2. What is the estimated total cost of the proposed development (including all proposed improvements, structures and facilities)? How will the development be financed (e.g. by the applicant, bank, state government loan, etc.)?

Estimated total cost of the proposed development is approximately \$250K and the Project will be financed by U.S. Cellular. U.S. Cellular is a multi billion dollar company traded on Wall Street. Please refer to Attachment (16) for additional financial information.

IMPACT ON SERVICES

3. Will your proposed development involve any sources of potential contamination (such as junkyards, auto repair, gas stations, and bulk storage of petroleum)?

The proposed development <u>does not</u> involve any sources of potential contamination.

4. Does your proposed development use an existing or new well?

The proposed development will not use an existing or new well.

5. Will the project site have electric power? If yes, how will the power be generated (on site, by power company, etc.)? How far is the project site from the nearest existing utility pole?

Electric power to the project site will be provided by Eastern Maine Electric. Power to site will be provided from existing power pole adjacent to Mr. Cochran's property. Eastern Maine Electric will determine pole routing to site. Distance of project site to the nearest existing utility pole is estimated at approximately 800 feet.

6. What state-approved dump will you use for the regular collection and disposal of site-generated solid wastes? Provide the name and location of the dump. How will you dispose of construction debris, stumps, brush, wood wastes, asphalt and pavement products?

Operation of the facility does not generate any solid waste. Any small amounts of solid waste generated during construction and maintenance activities will be collected and properly disposed of at approved licensed transfer or disposal facilities.

Construction wood debris, such as, stumps, brush and wood waste will be mechanically buried on the property, if possible, or will be disposed to a licensed wood waste disposal facility. Asphalt or pavement waste will not be generated by this project.

7. Who will provide fire protection to your project site? Provide the name and distance to the nearest fire station.

Fire protection to the project site will be provided by the Princeton Fire Department located at 11 Depot Street, Princeton, ME 04668. The Fire Station is approximately 3 1/2 miles from the proposed site.

VEHICULAR CIRCULATION, ACCESS, AND PARKING

8. How will you provide safe, uncongested vehicular access to and circulation within your project area? Will you limit the number and width of entrances and exists onto a roadway to that necessary for safe entering and exiting? Will access be designed so that vehicles can exit the site without backing onto a roadway or shoulder? Will shared access be implemented? If not, describes why shared access is not possible.

Vehicular access to and circulation within an operating telecommunication site is infrequent and requires, at most, the use of 2 or 3 vehicles during a heavy maintenance or trouble shooting event. Therefore only one entrance/exist is provided to the existing driveway off of West Street. Adequate vehicular turnaround is provided at the facility area to allow vehicles to exit the site without having to back onto West Street.

9. At what angle will access between the roadway and property intersect the roadway? What curb radius will the access way have? How will sight triangles be designed and maintained on each side of the intersection for the access way and the roadway?

The access road to the site will connect to an existing driveway that intersects West Street at approximately 90°. Please refer to the attached engineering drawings under Attachment (21) for additional information.

10. If you are proposing to use any existing or new parking areas, explain how such parking will meet the needs of the development and how such parking areas will be designed.

The parking area and access road at the facility site area will provide sufficient parking area for the site during construction and operation. In addition, the parking area and access road will provide for vehicular turn-around at the facility site area. Refer to Eng. Dwg. CIV-1A for information on parking area design.

(a) Are you proposing to use on-street of off-street (on-site) parking?

As indicated above, on-site parking will be provided.

(b) How will parking areas be visually buffered from the roadway?

As indicated above, on-site parking is provided by the access road at the facility site. The parking area is approximately 575 feet from the road. The site will be normally unmanned and accessed infrequently for inspection or maintenance. There are no residential structures near the property line adjacent to the facility site area. Parking area is in a wooded area.

11. If you are proposing to build or upgrade any roads to be used to access your project site, explain how any existing or proposed roadways will meet the needs of the development and describe how such roadways will be designed. Describe what site-specific best management practices will be used to ensure that the roadways will not cause erosion of safety problems.

Please refer to the engineering drawings under Attachment (21) for information on the proposed access road to the facility. The engineering drawings provide information relative to road design, stormwater control, and sedimentation and erosion control measures. Stormwater management was assessed for a 25 year storm rainfall.

NOISE AND LIGHTING

12. Except of day-time construction activities, will any continuous, regular or frequent source of noise be generated by the development? If yes, describe the source and frequency of such noise and explain how you will ensure that such noise will not exceed LURC's maximum permissible sound pressure levels.

Except for day-time construction activities, operation of the telecommunications facility will not generate any continuous, regular or frequent sources of noise.

13. If your development will use any new or existing lighting, will all non-essential lighting be turned off after business hours? What will be the hours of operation for your development?

The telecommunication facility will be operational 24/7 unless the systems are de-powered for maintenance or system upgrade purposes. The facility is normally un-manned except for routing checks and maintenance that are normally performed during daytime hours. The equipment shelter is <u>not lit</u> when un-manned. Please refer to Attachment (13) for information on shelter exterior lighting and tower lighting in accordance with FAA regulations.

WATER AND AIR QUALITY

14. If your property or development area is adjacent to any water bodies, what measure will you use to ensure that point and nonpoint sources of water pollutants (including sediment) generated by your development do not affect the surface water quality of the water bodies?

The development area <u>is not</u> adjacent to any water bodies and Maine Best Management Practices for erosion and sedimentation control will be provided for the development areas in accordance with the attached BDC engineering drawings.

15. How will you ensure that your development will not pose an unreasonable risk of polluting a groundwater aquifer?

Information from federal and state well data base indicates no wells are located in the vicinity of the facility development area. Please refer to map under Attachment (12) "GeoCheck Report" for additional information. Any ground disturbance will be limited, as much as possible, to the 100 ft X 100 ft facility compound area and the 575 X 12 foot driveway.

16. Will your development generate any air emissions other than ordinary fireplace smoke or heating furnace exhaust? If so, describe the type and amount of emissions.

The facility <u>will not</u> generate any air emissions during operation. Electric heating will be provided to the facility equipment shelter.

SCENIC CHARACTER, NATURAL AND HISTORIC FEATURES

17. How will your development be located, designed and landscaped to minimize visual impacts on the scenic character of the surrounding area? Will structures and other features be visible from existing roadways or shorelines? If on a ridge, how will the natural character of the ridgeline be preserved?

Facility structures, except for the upper section of the telecommunication tower will not be visible from surrounding areas because of distance from these areas and limited height of these structures within a forested area. The upper section telecommunications tower must remain visible to distance viewers since cellular communications requires radio frequency line-of-site to the cell phones.

Throughout the nation and the State of Maine, towers are being installed at high elevations and in remote areas to provide cell phone coverage to these rural areas. These installations are promoted through the national "Universal Service Fund (USF)". The USF is a service mandated by the Telecommunications Act of 1996 with the goal, in part, to increase the availability of advanced telecommunication services to all consumers, including those in low income, rural, insular, and high cost areas and at rates that are reasonably comparable to those charged in urban areas. In rural areas, the availability of cell phone systems enhances communications throughout the coverage area and is especially important to personnel responding to emergency situations, such as, when responding to fires, ambulatory needs, remote communication to emergency hospital facilities, and communication with personnel in remote and forested areas.

The State of Maine is an active participant in the promotion of cell phones to rural areas under the USF service fund. As such, numerous telecommunication tower sites are being installed at high elevations and remote areas throughout the State. The visible upper section of a telecommunications tower at high elevations has become a very common feature throughout the State landscape and is widely accepted throughout the local communities as a benefit to the community for safety and improved communications and at a cost that is comparable to urban areas. The tower installation on this project site will not be seen as a dominating feature from the roadway or shoreline since only the upper section of the tower will be visible and because of the distance from the tower to the roadway and shoreline.

18. If any portion of your project site includes S1 or S2 natural communities or plant species, how will you ensure that there will be no undue adverse impact on the community/species and how will you preserve the values that qualify your site for such designation?

The State of Maine Department of Inland Fisheries and Wildlife, and the State of Maine, Department of Conservation have reviewed the proposed project and have found that there are no State threatened or endangered species or rare botanical features known to occur within the project area. Black Diamond Consultants conducted an assessment to verify compliance with the U.S. Department of Fish and Wildlife Service – Maine Field Office Review Package under Section 9 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). The assessment indicates that there will be no taking of listed species or their habitats from this project. Please refer to information under Attachment (14) for additional information.

19. If any portion of your project site includes archeologically sensitive areas, structures listed in the National register of Historic Places or is likely to contain a significant archaeological site or structure, how will you ensure that there will be no undue adverse impact on such features and how will you preserve the values that qualify your project site for such designation?

Black Diamond has conducted a Historic Preservation – Section 106 evaluation on the proposed project and has determine that there are no Historic Properties within the Area of Potential Effect (APE) for direct effects and no Historic Properties within the Area of Potential Effect (APE) for visual effects from the tower and facility. Please refer to Attachment (11) for additional information.

SHORELAND CRITERIA

20. If your proposed development is adjacent to any lakes or ponds, explain in detail how your proposal is consistent with each of the shoreland criteria.

The proposed development is not adjacent to any lakes or ponds.

BUILDING LAYOUT IN PROSPECTIVELY ZONED AREAS

21. Is your proposed development located in a D-GN, D-GN2, D-GN3, D-RS or D-RS2 subdistrict within a prospectively zoned area?

The proposed facility is not located in a D-GN, D-GN2, D-GN3, D-RS or D-RS2 subdistrict within a prospectively zoned area. The zoned area of the development is as shown in Attachment (3).

REQUIRED EXHIBITS

S2-A. FINANCIAL CAPACITY.

The Project will be financed by U.S. Cellular Corporation (USCC). USCC is a multi-billion dollar company traded on Wall Street. Please refer to the information located under Attachment (16) for additional financial information.

S2-B. SOLID WASTE DISPOSAL AUTHORIZATION.

Operation of the facility does not generate any solid waste. Any small amounts of solid waste generated during construction and maintenance activities will be collected and properly disposed of at approved licensed transfer or disposal facilities.

S2-C. SOIL SUITABILITY AND MAPPING.

The soil in the project area is designated as very stony silt loam to gravelly loam texture. This soil is considered suitable, by USCC, for the construction of a telecommunications facility and access road as depicted in the Site Plan. Please see Attachment (17) for additional information on area soil.

S2-D. CORPORATE GOOD STANDING.

Certification of Good Standing from the Maine Secretary of State is provided under Attachment (18).

S2-F. ROADWAY DESIGN AND MAINTENANCE.

Please refer to Site engineering drawings for information on roadway design. The proposed roadway will be maintained by USCC to allow continued site access for personnel site inspections, maintenance, and repairs.

S2-G. PARKING LANDSCAPING PLAN.

The parking area for the telecommunication facility is provided by the 30 X 80 ft parking area shown on the engineering drawings and is less than one acre in size.

S2-H. TRAFFIC IMPACT STUDY.

The proposed development does not have the potential to generate significant amounts of traffic or safety/capacity concerns. Traffic to the development site is not expected to exceed 5 vehicles per day during construction or 2 to 3 vehicles per day during heavy maintenance periods. The access road and the facility site will provide adequate vehicle turn-around capability for site egress.

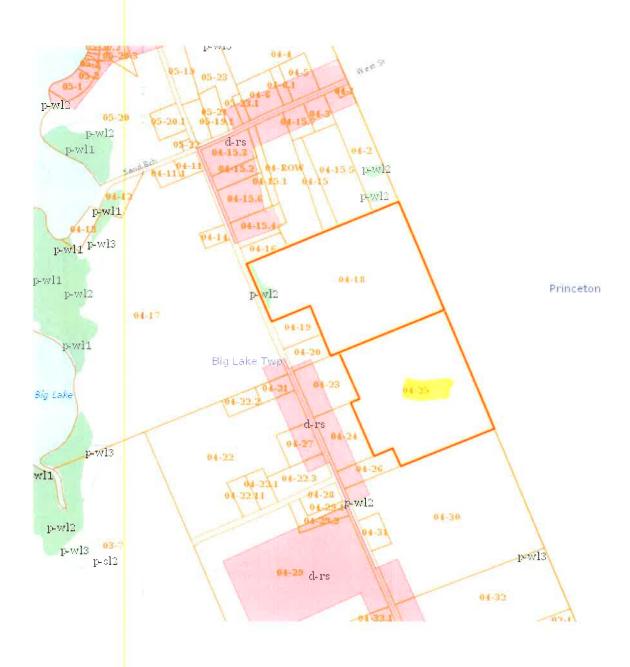
S2-I. ARCHAEOLOGICAL SURVEY.

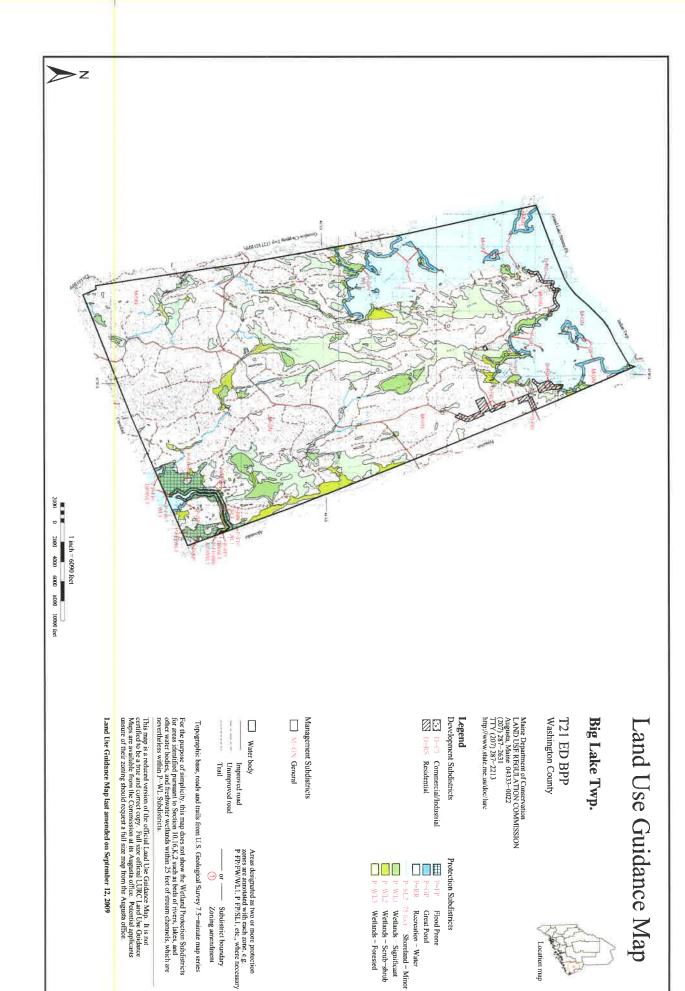
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S2-J. PHOSPHORUS CONTROL.

The proposed project will not create a disturbed area of one acre of more within a direct watershed of a lake or pond.

ATTACHMENT # 3 LUPC AND LOCATION MAPS OF PROPERTY





ATTACHMENT # 4 LAND DIVISION HISTORY

LAND DIVISION HISTORY FOR SITE

(Please refer to attached Deeds for additional information)

Property on Tax Map 04, Lot No. 25:

Transaction Description	Date of Sale or Lease	Deed Book No. & Page No.	Lot Size
Monty L. Lilly → Christopher	10/08/1993	Book # 1885,	Approx.
Cochran		Page # 171	44 acres
Kenneth Polk → Monty L. Lilly	4/03/1984	Book # 1271,	Approx.
		Page # 230	44 acres

ATTACHMENT # 5 FACILITY SIGNAGE INFORMATION

(Please refer to the attached pages for information on facility "cautionary" and regulatory required signage to be used at the Facility).



Advertising – No advertising signage will be installed at the telecommunications facility. There are four small personnel cautionary or licensed certification signs provided outside of the shelter facility. These are as follows:

(1) A "No Trespassing" sign placed within the compound, on the inside of the vehicle entry date fencing or on the Shelter. Sign is 24" X 24" in size.

Sample of No Trespassing Sign

NO TRESPASSING OPERATIONS LICENSED BY THE FEDERAL GOVERNMENT

PERSONS VANDALIZING THIS FACILITY
WILL BE PROSECUTED UNDER APPLICABLE
FEDERAL, STATE AND LOCAL LAWS.

PRIOR TO ENTRY OR IN CASE OF EMERGENCY CONTACT U.S. CELLULAR

XXX-XXX-XXXX

SITE NUMBER



An FCC Antenna Structure Registration Sign placed where an FCC inspector can clearly see them without having to gain access to the site. Ideally, the sign is placed on the tower or sheller and at eye level, where it is clearly visible from a reasonable vantage point outside the compound.

Sample of FCC Antenna Structure Registration Sign

F.C.C. ANTENNA STRUCTURE REGISTRATION 1235274



A ten-point "Notice with Instructions" sign is posted on the door side of the shelter. The sign measures 7" X 10".

Sample of the Notice with Instructions Sign

M NOTICE A

RADIOFREQUENCY ENVIRONMENTS

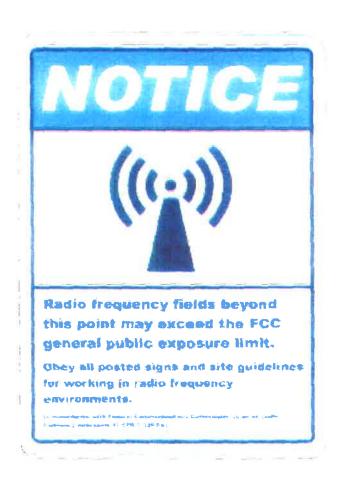
- All personnel should have electromagnetic energy (EME) awareness training.
- All personnel entering this site must be authorized.
- Obey all posted signs.
- ★. Assume all antennas are active.
- Before working on antermas, notify owners and disable appropriate transmitters.
- 🔌 Maintain minimum 3 feet clearance from all antennas.
- Do not stop in front of antennas.
- 🖭 Use personal RF monitors while working near antennas.
- Never operate transmitters without shields during normal operation.
- Do not operate base station antennas in equipment room.

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Radiofrequency (RF) Notice or Caution Sign placed at the base of the tower or on the shelter. The signs measure 10" x 14" each.

Sample of the RF Notice





Sample of the RF Caution.



ATTACHMENT #6

CHRISTOPHER COCHRAN "LETTER OF AUTHORIZATION"

&

DEED



May 5, 2013

ZONING LETTER OF AUTHORIZATION

I, Christopher Cochran, owner of property located at 983 West Street; Big Lake Township, Maine 04668, hereby authorizes Black Diamond Consultants, Inc., acting as a duly authorized representative of US Cellular/Maine RSA # 4, Inc. to apply to LURC. for all necessary permits to accommodate the installation of a communications facility/tower on property as identified by Map 4 Lot 25.

Christopher & Cochron 5/8/13

Date

Christopher Cochron Christopher Cochron

Print Name

BK | 885PG | 71

11649

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS

THAT I, Monty L. Lilly of Princeton, County of Washington and State of Maine

in consideration of One Dollar and other value
paid by Christopher Cochran of Princeton aforesaid
the receipt whereof I do hereby acknowledge, do hereby
GIVE, GRANT, BARGAIN, SELL AND CONVEY unto the said

Christopher Cochran, his heirs and assigns forever,

12 T

a certain lot or parcel of land situated in Plantation # 21, now or formerly known as the Warren Brown homestead place, situated on the easterly side of the town road, and originally comprising 50 acres, more or less, excepting from the foregoing, however, several parcels previously conveyed out of record in the Washington County Registry of Deeds.

For deed reference, see a deed to Ralph W. Polk and Ellenor G. Polk from the Inhabitants of Plantation # 21, dated October 15, 1949, of record in the aforesaid Registry at Book 486, Page 517.

Excepting and reserving however to Wilbert Spearin a life estate in the house situated on said property, together with 100' to each side and to the front and back of the house.

Meaning and intending to convey the same premises conveyed to the within Grantor by Kenneth Polk et als by deed dated April 3, 1984 and recorded in said Registry of Deeds in Book 1271, Page 230.

8K | 885PG | 72

AND TO HAVE AND TO HOLD the aforegranted and bargained premises with all the privileges and appurtenances thereof to

the said Christopher Cochran, his heirs and assigns, to his and their use and behoof forever.

AND I do COVENANT with the said Grantee, his heirs and assigns, that I am lawfully seized in fee of the premises that they are free of all encumbrances:

that I have good right to sell and convey the same to the said Grantee to hold as aforesaid, and that I and my heirs shall and will WARRANT AND DEFEND the same to the said Grantee, his heirs and assigns forever, against the lawful claims and demands of all persons claiming under us.

IN WITNESS WHEREOF, I, the said, Monty L. Lilly

in this deed as Grantor, have hereunto set my hand and seal this

8th day of October, in the year of our Lord one
thousand nine hundred and Ninety-three.

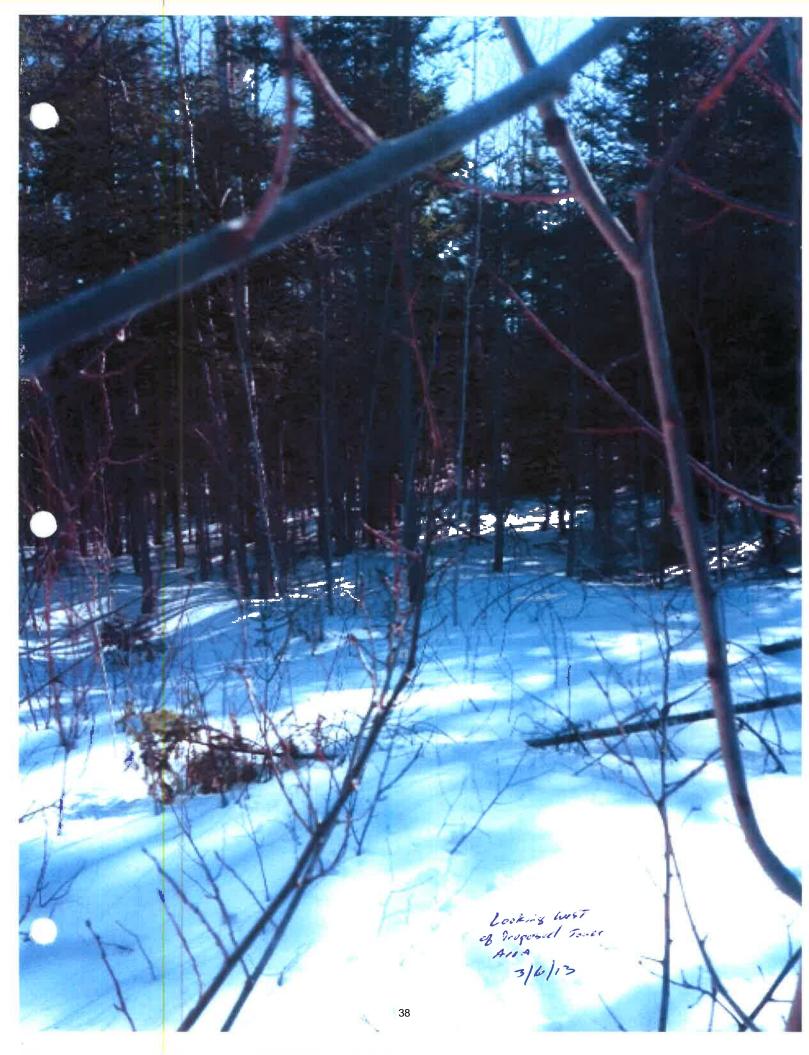
	Monty L. Lilly	
STATE OF MAINE Nashington, SS.	_ apper 9 , 1993	
Personally a	preared the above named Monty L. Lilly	
and acknowledged	the above instrument to be his free act and	
deed.	Before me, That I feral	- 1
	FENANCE REVIOUS HOTASTIEUS LIANE MY COMMISSIONE WARES JOSE	(5
	Notary's name, typed or printed	
	STATE OF MAINE WASHINGTON CO. BEGISTRY OF DEEDS NOV - 5 1993	

Register

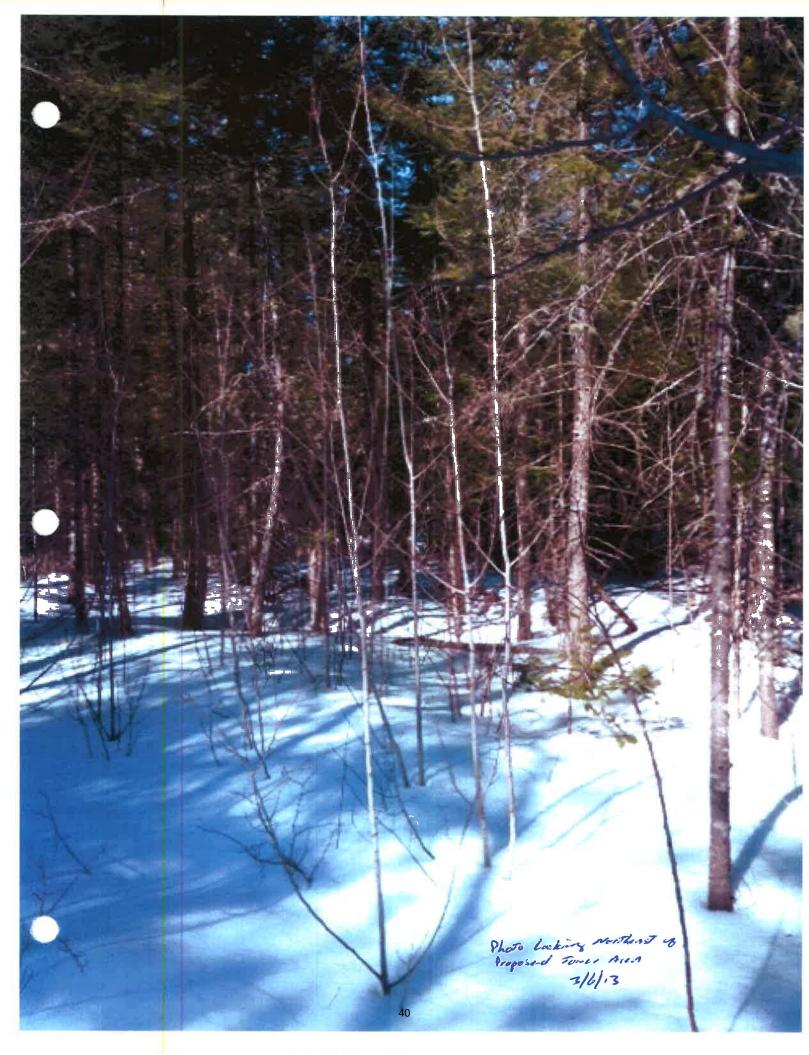
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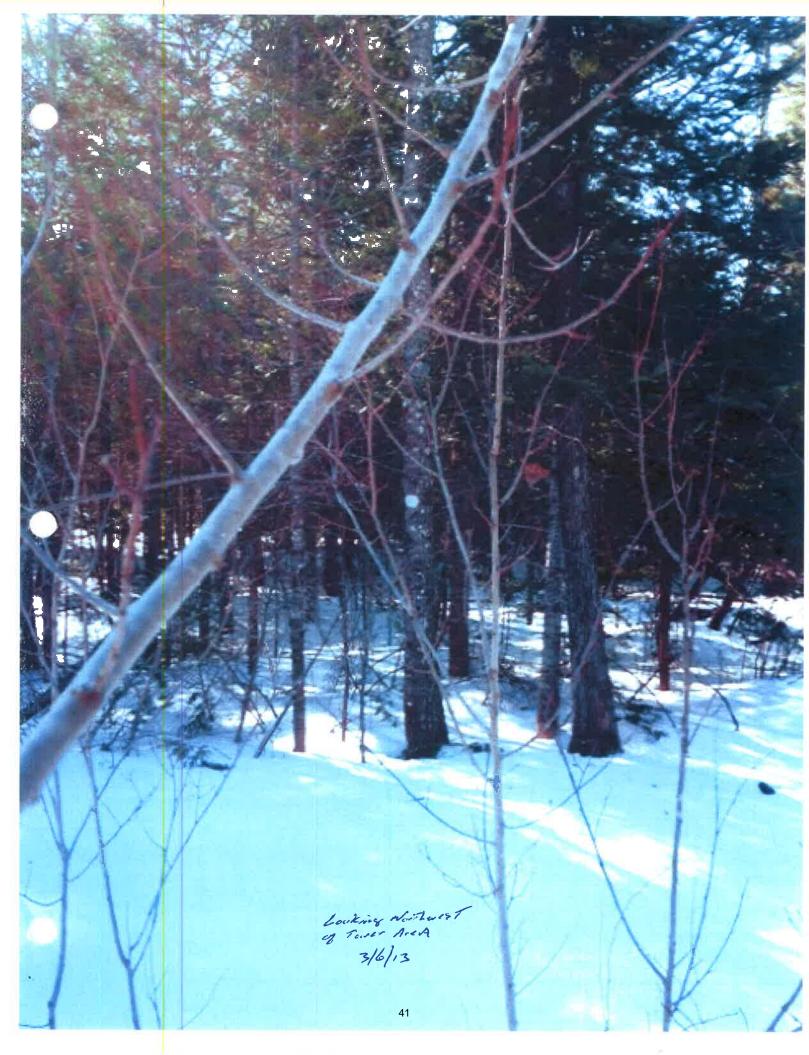
ATTACHMENT # 7 SITE PHOTOGRAPHS











ATTACHMENT # 8 SITE PLAN



312 Water Street PO Box 57 Gardiner, ME 04345

www.BLCKDlamond.net

111 New Hampshire Avenue Portsmouth, NH 03801

tel 207.582.0056 fax 207.582.9098 tel 603.570.2281

BDC PROJECT USCC-119



UNITED STATES CELLULAR CORPORATION

45° 10' 29.2" PRINCETON 424342 SITE NUMBER: SITE NAME: LATITUDE:

67° 36' 35.3" LONGITUDE:



393 E/ME-15 S toward Bangor-Brewer/U.S. ME-15 S/ME-9 E/S Main St toward Brewer

PROJECT INFORMATION

BIG LAKE TOWNSHIP, MAINE 04668

UNITED STATES CELLULAR CORPORATION ¢/o BLACK DIAMOND CONSULTANTS, INC 312 WATER STREET PO BOX 57 GARDINER, MAINE 04345

PO BOX 143 PRINCETON, MAINE 04668 PROPERTY OWNER
CHRISTOPHER COCHRAN

ELEVATION NUMBER SHEET ON WHICH ELEVATION APPEARS

ABBREVIATIONS

FIBER CONVERTER TELEPHONE FIBER ENCLOSURE FOUNDATION FOUNDATION
COUNCE
GALVANIZED
GAID FAULT INTERRUPTER
GATEHOUSE
HOUR

AR CONDITIONING
ALUMINAM
ABOVE MEAN SEA LEVEL
ACCESS MASTER CONTROL
BUILDING
BARE TINNED STRANDED

SECTION NUMBER SHEET ON WHICH SECTION APPEARS

DETAIL NUMBER SHEET ON WHICH DETAIL APPEARS

LEGEND

43

ELECTRICAL COMPANY BANGOR HYDRO ELECTRIC COMPANY 970 ILLINOIS AVENUE BANGOR, MAINE 04401

207,945,5621

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- POLIGOSITE
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FAIRPOINT COMMUNICATIONS 627 ROUTE 3 SOUTH CHINA, MAINE 04358 866.984.3001 TELEPHONE COMPANY

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DRAWING INDEX

COVERSHEET (CVR)
CVR-1A-0 COVERSHEET SURVEY (SUR) SUR-1A-1 PLOT PLAN

CIVIL (CIV)
CIV-1A-1 SITE PLAN
CIV-1B-0 ACCESS ROAD PROFILE
CIV-2A-0 COMPOUND LAYOUT PLAN
CIV-3A-0 CELLULAR EQUIPMENT

SHELTER ELEVATIONS
CIV-4A-0 FOUNDATION AND STOOP DETAILS
CIV-5A-0 FENCE, TRENCH AND
ICE BRIDGE DETAILS

ENVIRONMENTAL (ENV)
ENV-1A-0 ENVIRONMENTAL & CIVIL DETAILS

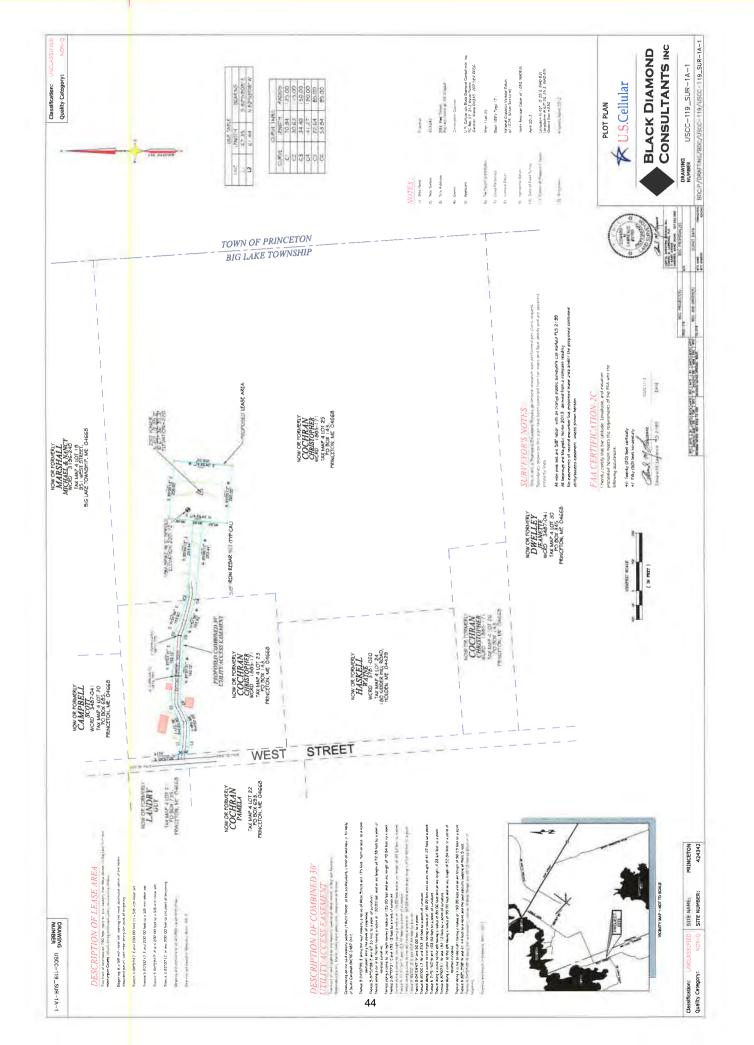
ELECTRICAL (ELE)
ELE-1A-O ELECTRICAL DETAILS
ELE-1A-D ELECTRICAL AND TELCO DETAILS
ELE-1A-O CROUNDING DETAILS

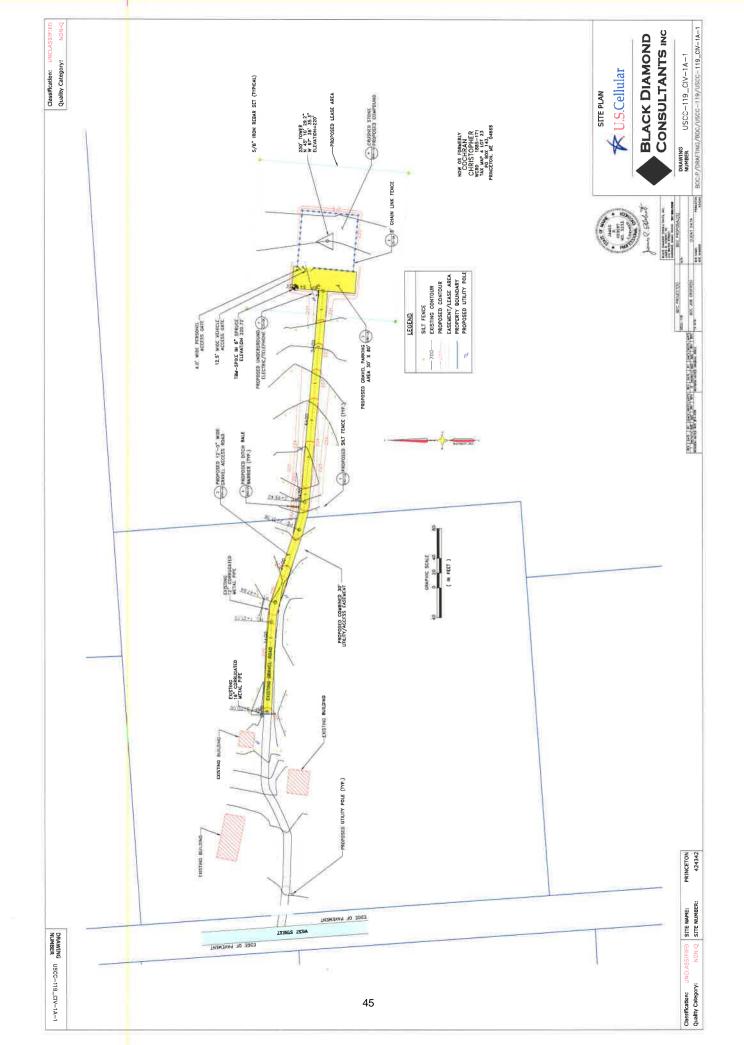
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ARC-1A-0 TOWER ELEVATION AND
ANTENNA LOCATION SECTION

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ACCESS ROAD PROFILE

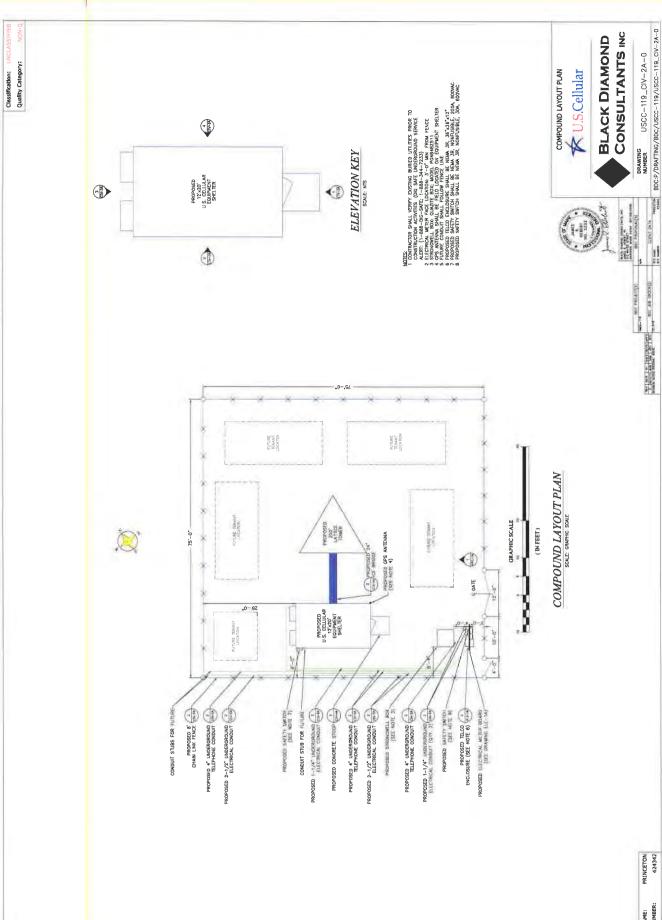
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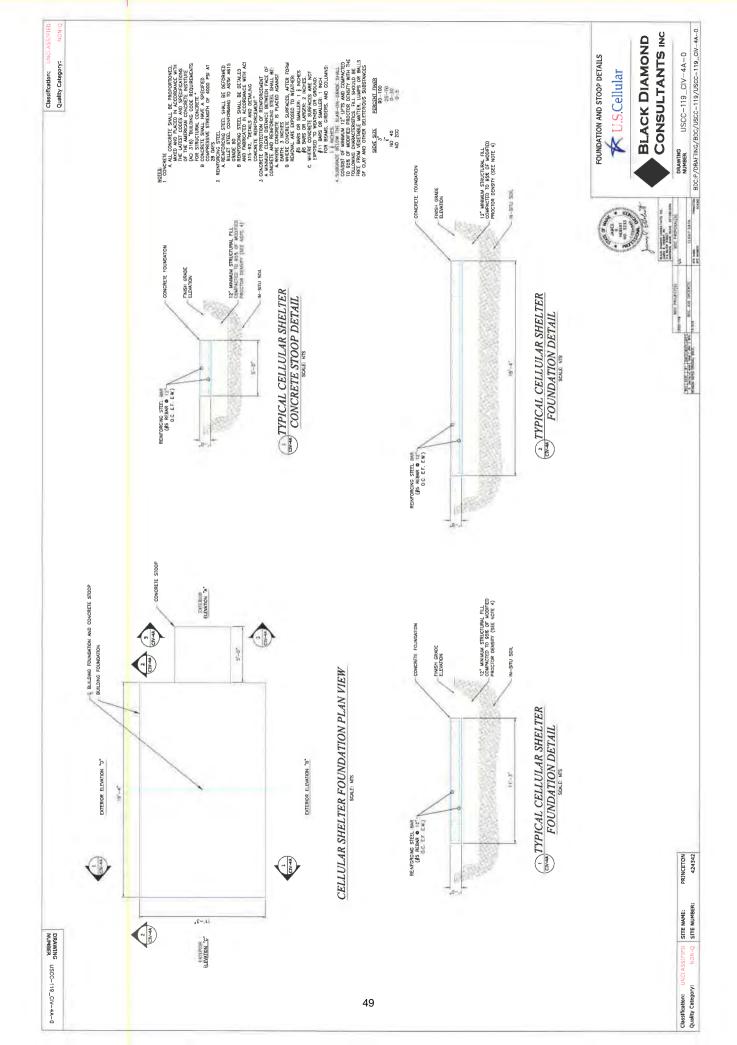


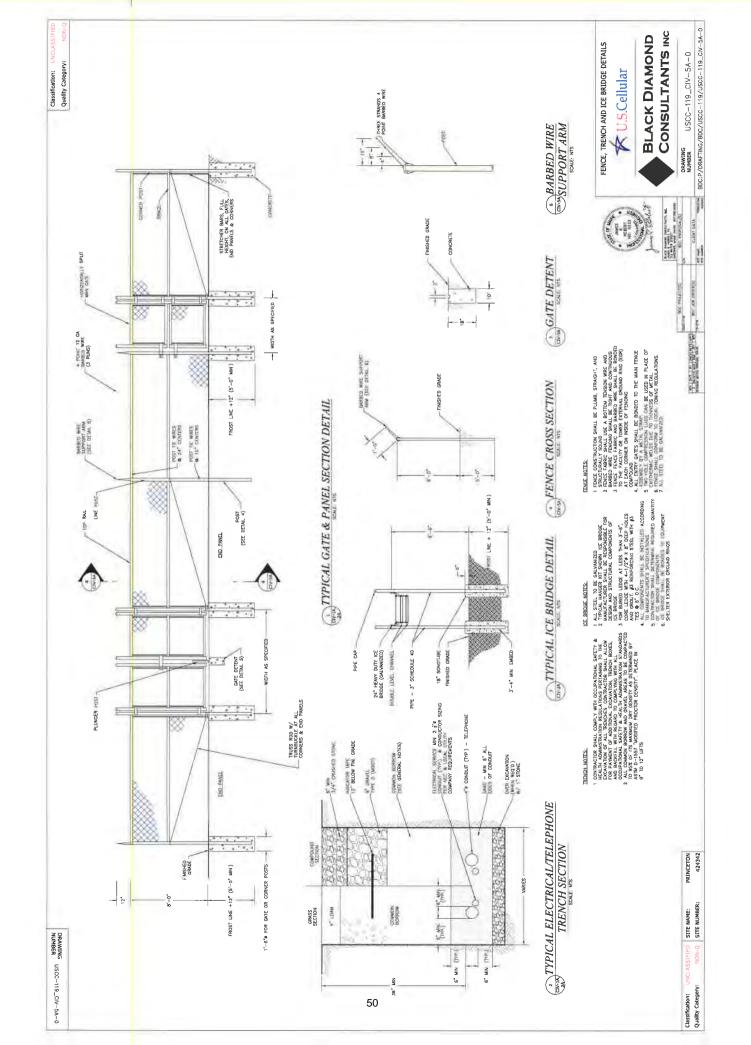
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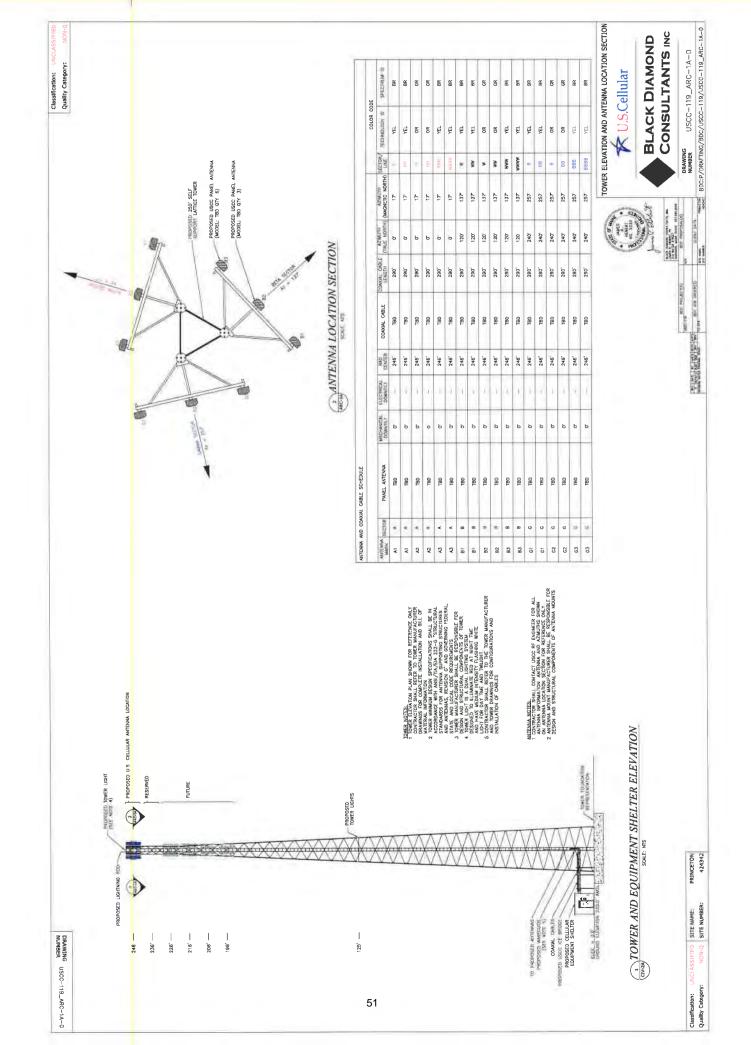
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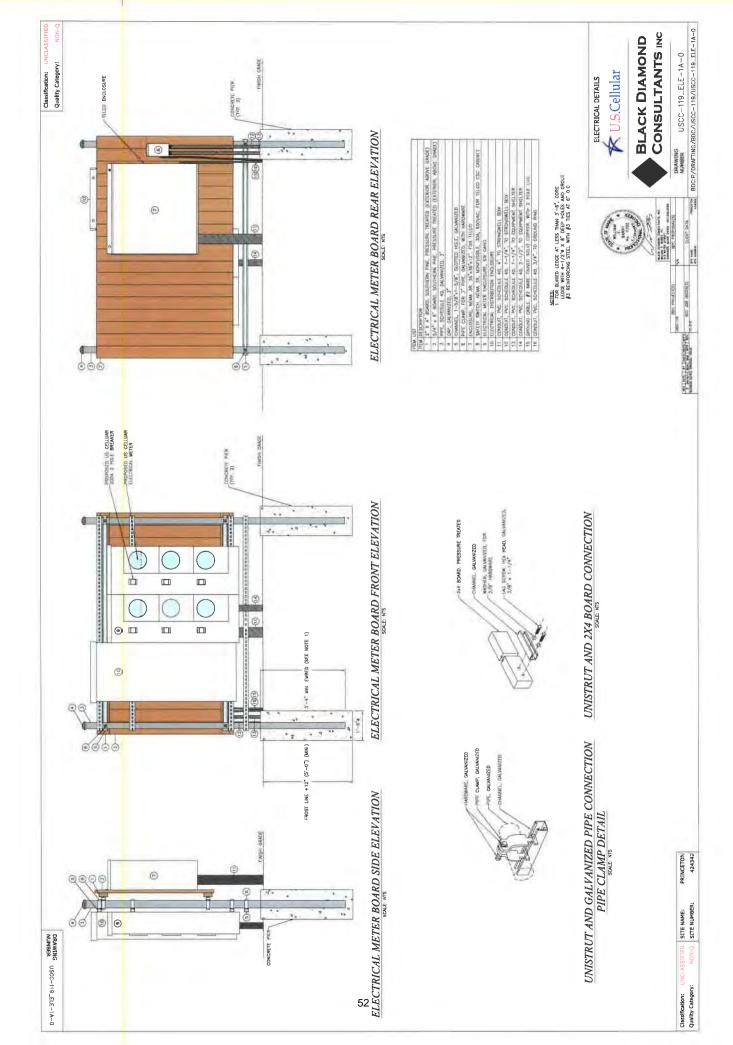
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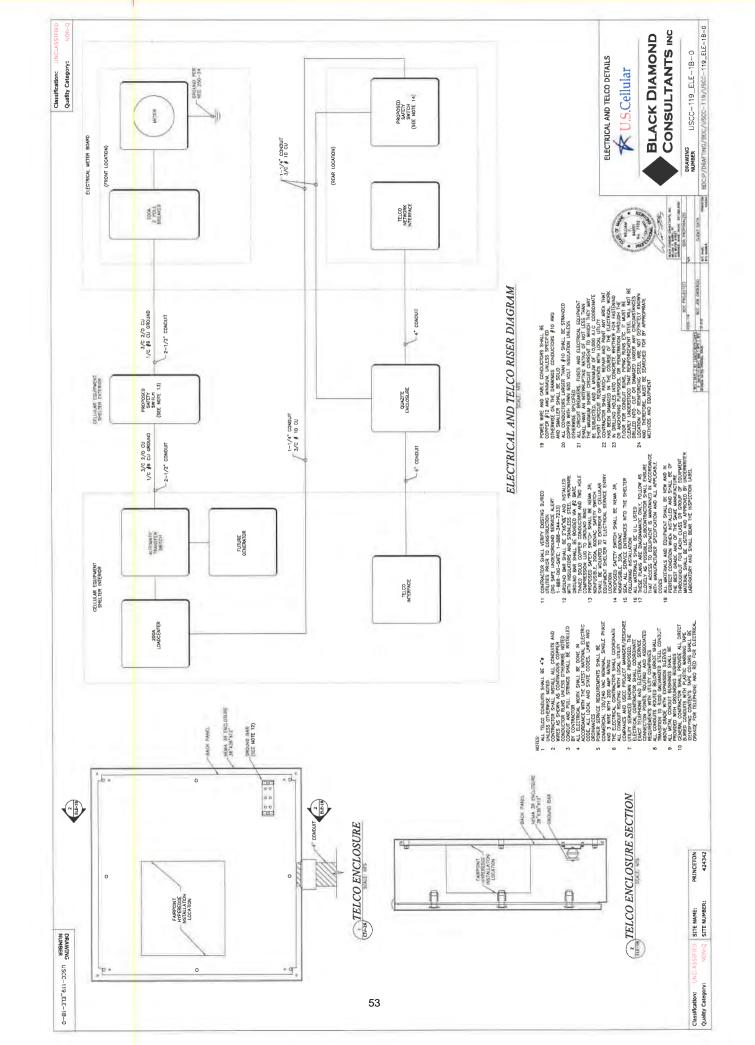
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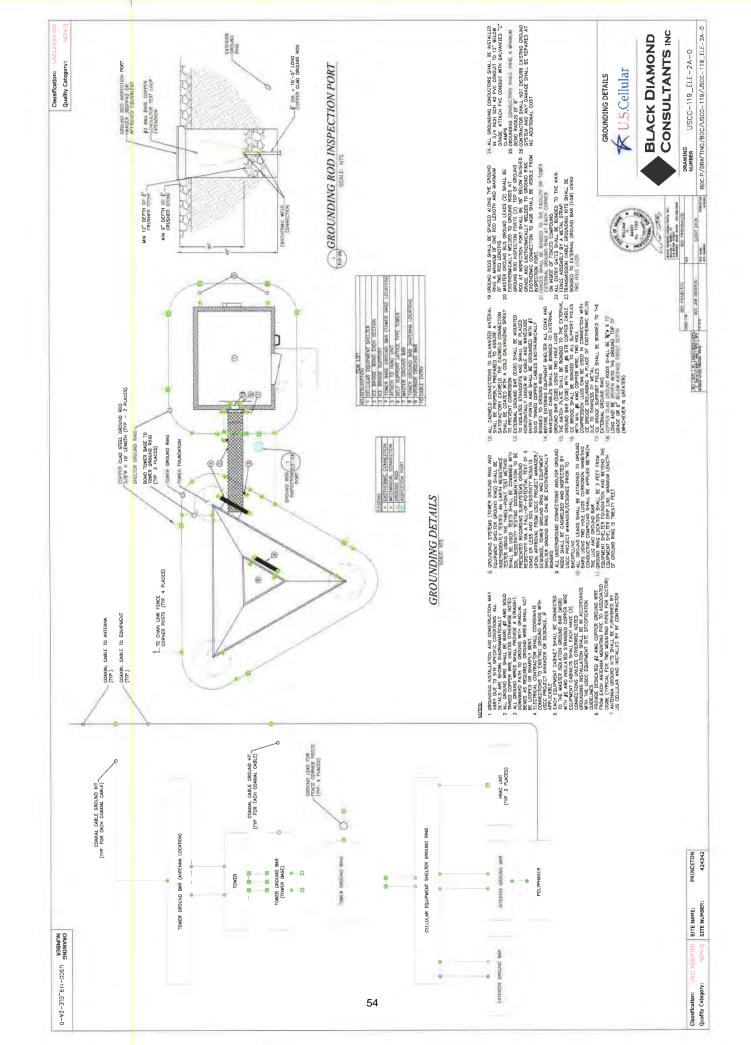












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CONSTRUCTION SCHEDULE

(IN FOLLOWING SEQUENCE, COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES, MAINTAIN CONTINUOUSLY)

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1/2"X1-1/2" OAK STAKES

SENERAL NOTES:

Quality Category:

INDMES OFFICE

Classification:

ADGREATE FOR GRAVEL BASE SHALL BE SOREENED OR CRUSHED GRAVE THE THAN UNCETABLE MATTER, OUNDER OR BALLS OF CLYT AND OTHER DELETEROUS SUBSTANCES INFERMANCES SUBSTANCES OF CLYT AND OTHER DELETEROUS SUBSTANCES INFERMANDING OF THE PORT THAT PASSES A 18 OF SINCE SHALL WHEET THE GRADANG REQUIREMENTS OF THE POLLOWING TABLE: AGGREDATE FOR GRANT, DASK

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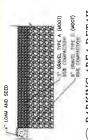
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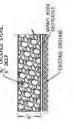
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THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT IN NO CASE SHALL THE MOISTURE CONTENT EXCEED A PERCENT ABOVE OPTIMUM ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 9522 OF ITS MAX DRY DENOSTRY AS DETERNINED BY ASTM 07-1557 "MORIED PROCTOR DENSITY" PLACE IN 9" TO 12" LETS. "- LOAM AND SEED



CRUSHED STONE, DEEP

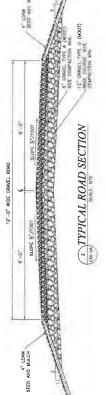


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CIV-1A

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ENVIRONMENTAL AND CIVIL DETAILS

CONSULTANTS INC **BLACK DIAMOND**

110/USET-119_ENV-1A-0

BDC-P/DRA

THE CALLY CALLY

Classification: UN Quality Category:

SITE NAME:

424342 PRINCETON

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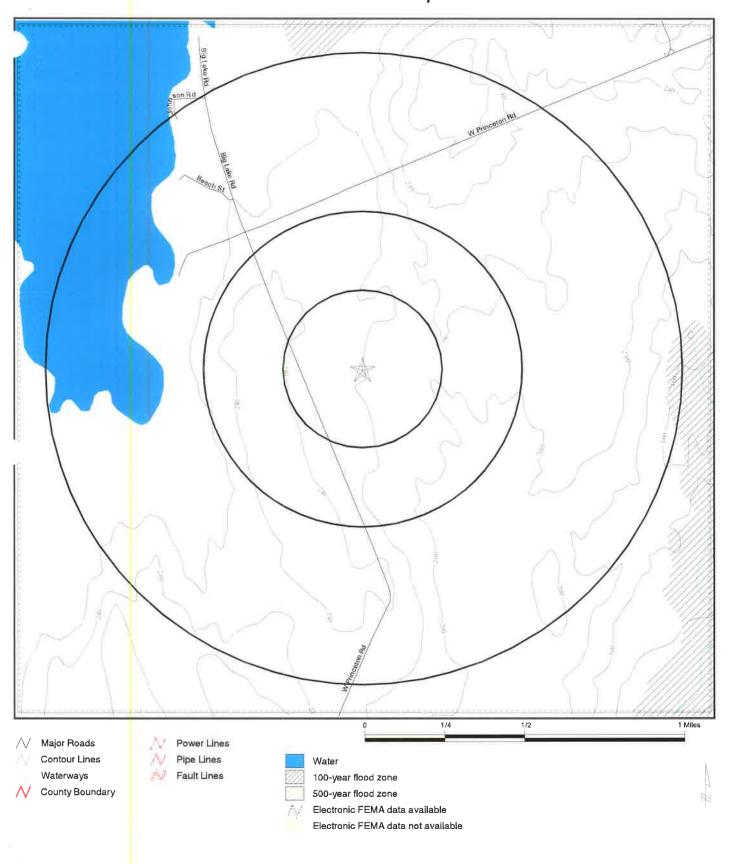
DRAWING USCC-119_ENV-1A-0

Black Diamond Consultants BDC Project: USCC-119

ATTACHMENT # 9 FEMA FLOODPLAIN INFORMATION

(The area to be developed is outside of any designated 100 year flood plain. Please see attached EDR map.)

Flood Plain Map



SITE NAME: USCC-119 ADDRESS: West Street ADDRESS:

Northern Washington ME 00134 45.1748 / 67.6098

LAT/LONG:

Black Diamond Consultants, Inc.

CLIENT: Black Diamo CONTACT: Chad Hebert INQUIRY #: 3602677.4s Chad Hebert DATE: May 9, 2013

TC3602677.4s Page 8 of 35

ATTACHMENT # 10 BDC EXPERIENCE AND TRAINING



BLACK DIAMOND CONSULTANT'S EXPERIENCE AND TRAINING

Black Diamond Consultant's (BDC) has provided telecommunications services in the State of Maine for several years and, as such, understands the processes for facilitating wireless network systems implementation. We have served the telecommunications industry in providing site acquisition, zoning, leasing, site environmental assessment, site design, site construction management, and site development and construction schedule management.

BDC has performed numerous environmental assessments for proposed telecommunication facilities throughout the State of Maine. These assessments include:

- Section 106 Historic Preservation assessments under the Nationwide Programmatic Agreement (NPA) to determine the impact of the proposed telecommunication facility on historic preservation sites within the area, including archaeological artifacts and Indian tribe importance.
- Environmental assessment to determine whether a proposed telecommunication facility will have a significant environmental effect. The scope of the assessment includes affect on officially designated wilderness areas; officially designated wildlife preserves; listed threatened or endangered species or designated critical habitats; flood plains; wetland fill, and deforestation or water diversion.
- Phase I Environmental assessment for hazardous and petroleum wastes in accordance with the Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM – E 1527-05.

The BDC site design and construction management experience includes the design of site "erosion and sedimentation controls" for construction and site post-construction permanent controls. The management oversight has included oversight of the implementation and maintenance of the erosion and sedimentation controls in accordance with engineering design plans and Maine Erosion and Sedimentation Control Handbook for Construction Best Management Practices.

Page 1 of 2

BDC provides the necessary hydrology and hydraulics assessments of stormwater runoff for the proposed site in accordance with the Natural Resources Conservation Service developed hydrology techniques. Site stormwater runoff controls are developed for the site and identified in the BDC site engineering drawings.

Training at BDC on the aforementioned assessments is provided at the BDC offices on an annual basis and has also periodically been provided by the Applicants for telecommunications facilities. Training provides instructions on the performance of the environmental assessments and controls in accordance with the BDC environmental implementing procedures. The training objectives are to improve the trainees understanding of the implementing procedures, the correlations between the implementing procedures and the associated regulations/standards, and changes to associated regulations/standards.

Page 2 of 2

Black Diamond Consultants
BDC Project: USCC-119

ATTACHMENT #11

HISTORIC PRESERVATION ASSESSMENT

(Black Diamond Consultants have reviewed the "National Register of Historic Places" data file to identify any historic sites within the Area of Potential Effect (APE) of the proposed telecommunications facility. The investigation revealed that there are no historic sites within the APE of the proposed facility. The following report provides additional information on the Historic Preservation evaluation.)



TECHNICAL REPORT

TR# 13-016

Revision #00

Report Type: Historic Preservation Review – (Section 106)

Project Location: Princeton, Maine

Report Date: 22 MAY 13

Site Inspection Date(s): 21 MAR 13

QA Category: Non-Q

Client: Project: JO Number: Cell Site:

U.S. Cellular **USCC-119** 13-016 N/A

Unclassified

Classification:

TITLE

HISTORIC PRESERVATION REVIEW (SECTION 106) United States Cellular Corporation Proposed Telecommunications Facility 250' Lattice Tower Big Lake Township, Maine

MHPC Project # 0485-13

Prepared for:

U.S. Cellular 100 Gannett Drive Suite B South Portland, Maine 04106

Prepared By:

Black Diamond Consultants, Inc. 312 Water Street PO Box 57 Gardiner, ME 04345



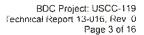
Executive Summary

Black Diamond Consultants, Inc. has performed this evaluation, assessment and report in accordance with Black Diamond Consultants, Procedure SOP-201, "Historic Preservation – Section 106 (New Tower)" developed in accordance with the Nationwide Programmatic Agreement (NPA). This Section 106 Review is for a proposed wireless telecommunications facility and 250' Lattice Tower installation. The site is located off West Street in Big Lake Township, Maine and depicted as Lot 25 on Big Lake Township Tax Map 4. The site consists of approximately 10,000 square feet of land area. Vehicular access will be from West Street to the site via an existing access road and a newly constructed access road.

The Historic Preservation review is performed to determine whether the facility and tower will have "no effect" on historic properties, "no adverse effect" on such properties, or an "adverse effect" on any property listed or "eligible for listing" in the National Register of Historic Places. The NPA distinguishes between "direct" and "visual" effects, with "direct" effects considered to be those on the facility and tower's immediate vicinity and "visual" effects being effects on the tower's surrounding area.

The scope of the considerations performed by Black Diamond Consultants included:

- Determination of the area of potential affect (APE) associated with the project,
- Identification of the appropriate SHPO/THPO and other consulting parties, including relevant local government and all Indian tribes entitled to be invited to consult on the project,
- Notification to the public and relevant local government about the project and their opportunity to comment or consult,
- Contacting potentially interested Indian tribes and inviting them to consult and provide their views on the project's potential effects to historic properties,
- Making reasonable and good-faith effort to identify historic properties within the APE by making use of record review available at the offices of the SHPO/THPO,
- Determining the nature of the project's effects on identified historic properties,
- Informing SHPO/THPO of all comments received from the public or consulting parties,
- Preparing the NT Submission Packet FCC Form 620 for submittal, and
- Preparing this complete Section 106 documentation and findings package for submittal to SHPO/THPO and all participating consulting parties.





Black Diamond Consultants. Inc.

The information gathered by Black Diamond Consultants from this assessment indicates that there are no Historic Properties within the Area of Potential Effect (APE) for direct effects and no Historic Properties within the Area of Potential Effect (APE) for visual effects from the tower and facility in Big Lake Township. Maine. Refer to the FCC Form 620 and Attachments to this report for additional information

Inspection & Evaluation Performed B	y:
chant stelent	5/22/13
Chad J. Hébert	Date '
Black Diamond Consultants, Inc.	
Technical Report Prepared By:	Technical Report Reviewed By:
Megan Modeine 221	Very 13 James R. Stebert Date Date
Megan J. McGuire Dat	
Black Diamond Consultants, Inc.	Black Diamond Consultants, Inc.



Objective

The assessment has been developed to verify compliance with FCC's Environment rules relative to the National Historic Preservation Act (Section 106). The assessment evaluated the effect of the proposed wireless telecommunications equipment and 250' Lattice Tower in Big Lake Township, Maine on any property listed or eligible for listing in the National Register of Historic Places. This report documents the results of the Environmental Historic Preservation assessment.

Technical Approach

The assessment and report were developed in accordance with Black Diamond Procedure SOP-201, "Historic Preservation – Section 106 (New Tower)" and the National Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (Appendix B). Compliance to the SOP ensures compliance to the FCC environmental regulations relative to Section 106. The assessment process included the gathering and evaluation of information, consultation with State expert agencies, Indian tribes and consulting parties, and providing opportunities for public notification and involvement.

Technical Results

The proposed project was evaluated to determine the potential environmental effects of the proposed project on any property listed or eligible for listing in the National Register of Historic Places. The evaluation included the following considerations:

- Determination of the area of potential affect (APE) associated with the project,
- Identification of the appropriate SHPO/THPO and other consulting parties, including relevant local government and all Indian tribes entitled to be invited to consult on the project,
- Notification to the public and relevant local government about the project and their opportunity to comment or consult,
- Contacting potentially interested Indian tribes and inviting them to consult and provide their views on the project's potential effects to historic properties,
- Making reasonable and good-faith effort to identify historic properties within the APE by making use of record review available at the offices of the SHPO/THPO.
- Determining the nature of the project's effects on identified historic properties,
- Informing SHPO/THPO of all comments received from the public or consulting parties,



- Preparing the NT Submission Packet FCC Form 620 for submittal, and
- Preparing this complete Section 106 documentation and findings package for submittal to SHPO/THPO and all participating consulting parties.

The information gathered by Black Diamond Consultants from this assessment indicates that there are no Historic Properties within the Area of Potential Effect (APE) for direct effects and no Historic Properties within the Area of Potential Effect (APE) for visual effects from the tower and facility in Big Lake Township, Maine. Refer to the FCC Form 620 and Attachments to this report for additional information.

Conclusion

The assessment was performed to verify compliance with FCC's Environment regulations relative to Section 106 on Historic Preservation. The assessment considered the historic preservation environmental factors relative to the installation of a 250 foot Lattice Tower and associated telecommunications equipment in Big Lake Township, Maine.

The assessment was developed in accordance with Black Diamond Procedure SOP-201, "Historic Preservation – Section 106 (New Tower)" and the National Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (Appendix B). Compliance to the SOP ensures compliance to the FCC environmental regulations relative to Section 106.

The information gathered by Black Diamond Consultants from this assessment indicates that there are no Historic Properties within the Area of Potential Effect (APE) for direct effects and no Historic Properties within the Area of Potential Effect (APE) for visual effects from the tower and facility in Big Lake Township, Maine. Refer to the FCC Form 620 and Attachments to this report for additional information.

Reference(s)

Federal Communications Commission FCC 04-222, - Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission, Appendix B, September 2004.

Black Diamond Consultants Procedure SOP-201, - Historic Preservation – Section 106 (New Tower)

U.S. Cellular Document – "Scope of Work for Compliance with the FCC's Environmental Rules"

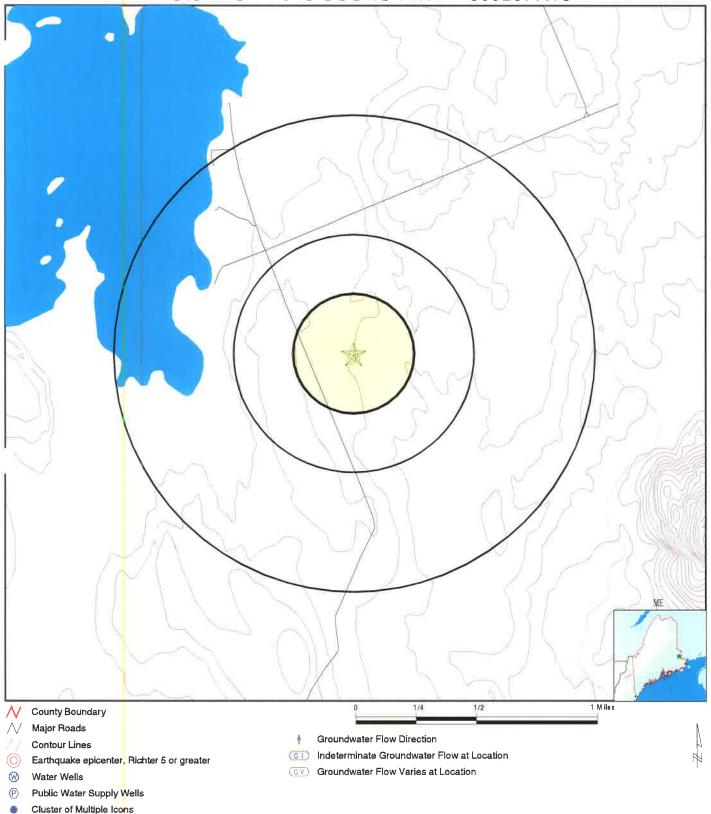
Black Diamond Consultants BDC Project: USCC-119

ATTACHMENT # 12

GEO-TECH REPORT ON AREA POTABLE WATER WELLS

(There are no potable water wells located in the proposed area to be developed, including the access road. Please see attached EDR Map information.)

PHYSICAL SETTING SOURCE MAP - 3602677.1s



SITE NAME: USCC-119 ADDRESS: West Street West Street

LAT/LONG:

Northern Washington ME 00134 45.1748 / 67.6098

Black Diamond Consultants, Inc Chad Hebert

CLIENT: CONTACT: INQUIRY #: 3602677.1s May 09, 2013 5:43 pm DATE:

Copyright © 2013 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile

1.000

FEDERAL USGS WELL INFORMATION

State Database

MAP ID	WELL ID	FROM TP
No Wells Found		January 1

FEDERAL FROS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	FROM TP
No PWS System Foun	d	

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		-

Black Diamond Consultants BDC Project: USCC-119

ATTACHMENT # 13

SITE EXTERIOR LIGHTING

(Lighting will be provided on the tower as required by the FAA. The proposed tower lighting will be a dual lighting system designed to illuminate red at night time and have a medium intensity flashing white light for day time and twilight. The only additional exterior light proposed for the facility is located on the facility shelter. The light is a wall pack fixture of 50 to 100 watt and is a cutoff fixture designed to retain the light close to the shelter. The exterior light is used only when the facility is occupied for maintenance or facility checks. The light is connected to a timer that secures the light after approximately one hour of use. Please refer to attached page for information on the shelter lighting.)



FEATURES & SPECIFICATIONS

INTENDED USE

For entrances, stainwells, corridors and other pedestrian areas.

CONSTRUCTION

Rear housing is rugged, corrosion-resistant, die-cast aluminum. Front cover is one-piece UV-resistant injection molded polycarbonate, internally painted. Captive external hardware is specially treated for corrosion resistance and includes slotted hex-head and tamperproof fasteners.

Dark bronze (DDB) corrosion-resistant polyester powder.

OPTICAL SYSTEM

One-piece die-formed reflector is diffused aluminum. Refractor is clear UV stabilized polycarbonate, providing IES cutoff distribution and maximum lateral light output. Front cover is sealed and gasketed to inhibit the entrance of outside

ELECTRICAL SYSTEM

Ballast: Metal halide: high reactance, high power factor, HPS: 35S, 50S, 70S, 120V are reactor, normal power factor. 100S 120V is reactor, high power factor. High reactance, high power factor (XHP). Optional for 50S, 70S and 100S, 128V. 208, 240, 277, 347 and TB are standard XHP. Ballasts are 100% factory tested. UL listed 660W, 600V and 4kV pulse rated.

All components are heat-sinked directly to the cast housing for maximum heat

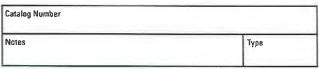
Socket: Porcelain, horizontally oriented medium-base socket with copper alloy, nickel-plated screw shell and center contact.

INSTALLATION

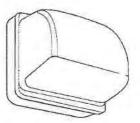
Mount to any vertical surface or to a 4" round square outlet box. Back access through gasketed slot. Top wiring access through 1/2" threaded conduit entry. (Through-wiring requires use of a conduit tee).

UL listed for wet locations. IP65 rated, UL Listed to US and Canadian safety standards (see Options). NOM Certified.

Note: Specifications subject to change without notice.



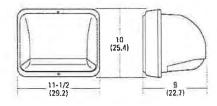
Cutoff Mini Wall-Packs



TWAC

METAL HALIDE 50-100W

HIGH PRESSURE SODIUM 35-100W



Specifications

10" (25.4cm) Height: 11-1/2" (29.2cm) Depth: 8-15/16" (22.7cm) *Weight: 10 lbs. (4.53kg)

*Weight as configured example below

ORDERING INFORMATION

For shortest lead times, configure product using standard options (shown in bold).

TWAC

Series	Wattage	Voltage		Ballast	
TWAC	Metal halide	120	(blank)	Magnetic	S
	50M	208²	XHP	High reac-	
	70M	240²		tance, high	
	100M	277		power factors	
	High pressure sodium	347	CMI	Constant watt-	
	35S1	TB ³		age isolated	
	50S	23050HZ4			
	70\$				
	100S				

NOTES:

- 120V only.
- Must specify CWI in Canada.
- Optional multi-tap ballast (128, 208, 240, 277V). In Canada (120, 277, 347V) ships as 120/347.
- 4 Consult factory for available wattages.
- Optional for 128V HPS only (n/a 35S).
- Not available with TB.
- Maximum allowable wattage lamp included.
- Not available with QRS, EC or NOM.
- May be ordered as an accessory as TWAWG U.
- 10 Finish applied to housing only.
- 11 Must be specified.

Outdoor

Example: TWAC 50M 120 LPI

Shipped in	stalled in fixture
SF	Single fuse (120, 277, 347V) ⁶
DF	Double fuse (208, 240V)6
EC	Emergency circuit ⁷
DC12	Emergency circuit 12 volt (35 watt lamp included)*
DC2012	Emergency circuit 12 volt (20 watt lamp included) ^a
2DC12	Emergency circuit 12 volt (2 35 watt lamp included)*
2DC2012	Emergency circuit 12 volt (2 20 watt (amp included)*
ORS	Quartz restrike system ⁷
CSA	Listed and labeled to

Options

comply with Canadian Standards NOM NOM Certified PE Photocell⁵

Shipped separately⁹ WG Wire guard

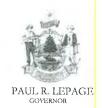
	1	744	
Fi	nish		Lamp ¹¹
(blank)	Dark bronze	LPI	Lamp included
DNA	Natural aluminum	L/LP	Less lamp
DBL	Black		
DMB	Medium bronze		
DWH	White		
DSS	Sandstone		
CR	Enhanced corrosion- resistance ¹⁰		
CRT	Non-stick protective coating ¹⁰		
DSS CR	White Sandstone Enhanced corrosion- resistance ¹⁰ Non-stick protective		

Sheet #: TWAC-M-S_0

BM-700

Black Diamond Consultants
BDC Project: USCC-119

ATTACHMENT # 14 WILDLIFE AND RARE SPECIES ASSESSMENT



STATE OF MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE 284 STATE STREET 41 STATE HOUSE STATION AUGUSTA ME 04333-0041

CHANDLER E. WOODCOCK

May 31, 2013

Chad Hebert 312 Water St., P.O. Box 57 Gardiner, ME 04345

RE: Information Request - Telecommunications Facility, Princeton

Dear Chad:

Per your request received May 24, 2013, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information for known locations of Endangered, Threatened, and Special Concern species; designated Essential and Significant Wildlife Habitats; and Fisheries Habitat concerns within the vicinity of the telecommunications facility proposed in Princeton and indicated on the map you provided.

Our information indicates no locations of Endangered, Threatened, or Special Concern species within the project area. Additionally, our Department has not mapped any Essential or Significant Wildlife Habitats or Fisheries Habitats that would be directly affected by your project.

As proposed, this project will include construction of a 250-foot tall self-supported lattice tower. Given the height of the tower, bird collisions are likely. Please see the attached document to learn more about conflicts between birds and communication towers and for tower design considerations that limit bird mortality. These guidelines, developed by Partners in Flight, have been adopted by MDIFW. If at all possible, we recommend that the tower height be reduced to less than 200 feet. Towers below 200 feet in height do not require lighting which can attract birds and result in increased mortality. If a reduction in height is not possible, we recommend that the tower lighting be flashing white strobe lights with a maximum off period between flashes. This type of lighting is far less attractive to migratory birds than continuous or pulsating, incandescent red or white lights.

This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance we recommend additional consultation with the municipality, and other state resource agencies including the Maine Natural Areas Program and Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance.

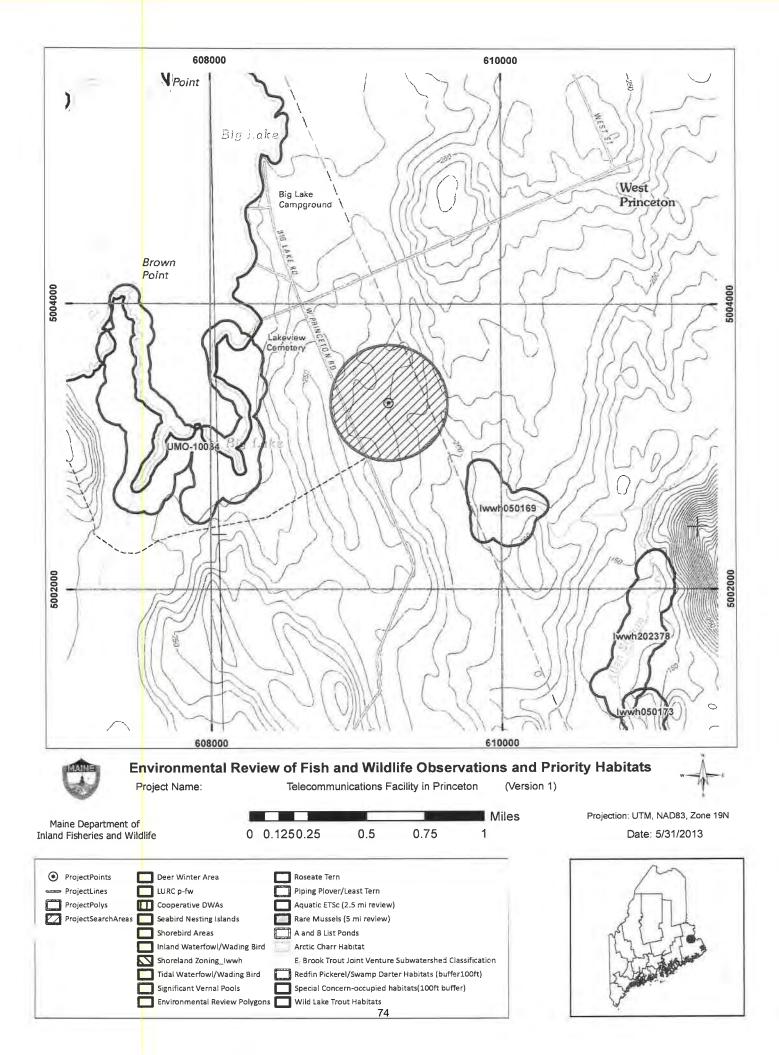
Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,

Bethany Atkins

Acting Environmental Review Coordinator

Bethany & atta





DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY 93 STATE HOUSE STATION AUGUSTA, MAINE

PAULR LEPAGE

WALTER E. WTHTCOMB
COMMISSIONER

May 17, 2013

Chad Hebert
Black Diamond Consultants
P.O. Box 57
Gardiner, ME 04345

Re: Rare and exemplary botanical features in proximity to: Proposed Telecommunications Facility, Princeton, Maine

Dear Mr. Hebert:

I have searched the Natural Areas Program's Biological and Conservation Data System files in response to your request received May 17, 2013 for information on the presence of rare or unique botanical features documented from the vicinity of the project site in Princeton, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualif ed field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

75

PHONE: (207) 287-8044 FAX: (207) 287-8040 TTY: (207) 287-2213 Letter to Chad Hebert, Black Diamond Consultants Comments RE: Telecommunications Facility, Princeton

May 17, 2013 Page 2 of 2

The Natural Areas Program is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. The Natural Areas Program welcomes coordination with individuals or organizations proposing environmental alteration, or conducting environmental assessments. If, however, data provided by the Natural Areas Program are to be published in any form, the Program should be informed at the outset and credited as the source.

The Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using the Natural Areas Program in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Don Cameron

Ecologist

Maine Natural Areas Program

207-287-8041

don.s.cameron@maine.gov

Rare & Exemplary Botanical Features within 4 miles of

-Project: Telecommunications Facility, Princeton, Maine	ations	acili	ty, Prin	Iceton, M.	aine	
Scientific Name	State	State Rank	State Global Rank Rank	Date Last Observed	Date Last Occurrence Observed Number	Habitat
Carex tenuiflora	SC	83	G5	2004-09-17	21	Open wetland, not coastal nor rivershore (non-forested, wetland)
Cypripedium reginae	T	83	64	2007-07-10	51	Forested wetland
Domed bog ecosystem		S3	GNR	2006-08-29	œ	Open wetland, not coastal nor rivershore (non-forested, wetland)
Unpatterned fen ecosystem		S5	GNR	2007-07-11	63	Open wetland, not coastal nor rivershore (non-forested, wetland)
Unpatterned fen ecosystem		S5	GNR	2000-07-14	28	Open wetland, not coastal nor rivershore (non-forested, wetland)

Page 1 of 1

Maine Natural Areas Program

Visit our website: www.maine.gov/doc/nrimc/mnap

STATE RARITY RANKS

- Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
- S2 Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- Rare in Maine (20-100 occurrences).
- S4 Apparently secure in Maine.
- S5 Demonstrably secure in Maine.
- SH Known historically from the state, not verified in the past 20 years.
- SX Apparently extirpated from the state, loss of last known occurrence has been documented.
- Under consideration for assigning rarity status; more information needed on threats or distribution.

 S#? Current occurrence data suggests assigned rank, but lack of survey effort along with amount of
- potential habitat create uncertainty (e.g. S3?).
- SNR State rank not yet assessed.
- Note: State Rarity Ranks are determined by the Maine Natural Areas Program.

GLOBAL RARITY RANKS

- Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biclogy makes it especially vulnerable to extinction.
- G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- G3 Globally rare (20-100 occurrences).
- G4 Apparently secure globally.
- G5 Demonstrably secure globally.
- GNR Global rank not yet assessed.
- Note: Global Ranks are determined by NatureServe, for more information see http://www.natureserve.org/explorer/ranking.htm.

STATE LEGAL STATUS

- Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's Endangered and Threatened plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.
- E ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
- THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

NON-LEGAL STATUS

- SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
- PE Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

Visit our website for more information on rare, threatened, and endangered species! http://www.maine.gov/doc/nrimc/mnap



TECHNICAL REPORT TR# 13-019

Revision #00

Report Type: Federal Wildlife and Rare Species Assessment

Project Location: Big Lake Township, Maine

Report Date: 19 JUN 13 QA Category: Non-Q Client: Project: JO Number: U.S. Cellular USCC-119 13-016 N/A

Cell Site: Classification:

Unclassified

TITLE

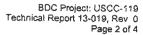
Federal Wildlife and Rare Species Assessment
United States Cellular Corporation
Proposed Telecommunications Facility
250' Lattice Tower
Princeton, Maine

Prepared for:

U.S. Cellular 100 Gannett Drive Suite B South Portland, Maine 04106

Prepared By:

Black Diamond Consultants, Inc. 312 Water Street PO Box 57 Gardiner, ME 04345





Executive Summary

Black Diamond Consultants, Inc. has performed this evaluation, assessment and report in accordance with the U.S Department of Fish and Wildlife Service — Maine Field Office review process. This review package is for a proposed wireless telecommunications facility and tower installation off from West Street in Big Lake Township, Maine. The site consists of approximately 40,000 square feet of leased land located within a forested area. The developed area will be restricted to 100'x100' with a 75'x75' fenced-in compound area within the developed area. Vehicular access will be from West Street to the site via an existing access gravel road.

The Ecological Services review is performed to determine whether the facility and tower is located within any endangered and threatened species habitat. Endangered and threatened species and their habitats are protected by Section 7(a) (2) of the Endangered Species Act (ESA). Section 9 of the Endangered Species Act prohibits unauthorized taking of listed species. This assessment is to ensure that any action which is authorized, funded or carried out is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat.

The information gathered by Black Diamond Consultants from this assessment indicates that there are will be no taking of listed species or their habitats from the lower and facility in Big Lake Township, Maine.

Inspection & Evaluation Performed By:	1. 11.4 t
Chad J. Hébert Black Diamond Consultants, Inc.	Date
	Technical Report Reviewed By:
Technical Report Prepared By: Meden Medicus 6/19/13	Sams P. Dibert 6/19/13
Megan J. MdGuire Date Black Diamond Consultants, Inc.	James R. Hébert Date Black Diamond Consultants, Inc.



Objective

The assessment has been developed to verify compliance with the U.S. Department of Fish and Wildlife Service –Maine Field Office Review Package under Section 9 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 et seq.). The assessment evaluated the effect of the proposed wireless telecommunications equipment and 250' Lattice Tower in Big Lake Township, Maine on any endangered and threatened species or their habitat. This report documents the results of the Federal Wildlife and Rare Species assessment and review package.

Technical Approach

The assessment and report were developed in accordance with the U.S. Department of Fish and Wildlife Service –Maine Field Office review process. The assessment process included the gathering and evaluation of information from the Maine Field Office web based instructions on Species Lists and Project Reviews.

Technical Results

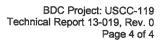
The proposed project was evaluated to determine the potential environmental effects of the proposed project on any endangered or threatened species and their habitats.

The information gathered by Black Diamond Consultants from this assessment indicates that there will be no taking of listed species or their habitats from the tower and facility in Big Lake Township, Maine.

Conclusion

The assessment has been developed to verify compliance with the U.S. Department of Fish and Wildlife Service –Maine Field Office Review Package under Section 9 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 et seq.). The assessment evaluated the effect of the proposed wireless telecommunications equipment and 300' Lattice Tower in St. John, Maine on any endangered and threatened species or their habitat.

The information gathered by Black Diamond Consultants from this assessment indicates that there will be no taking of listed species or their habitats from the tower and facility in Big Lake Township, Maine.





Reference(s)

United States Department of the Interior – Maine Field Office – Ecological Services Web Based process

U.S. Cellular Document – "Scope of Work for Compliance with the FCC's Environmental Rule.

ATTACHMENT #15

NOTICE OF LUPC RECEIPT OF PERMIT APPLICATION

(Reference LUPC Rules of Practice – Chapter 4, Section 4.04(4))

(Black Diamond Consultants is prepared to provide notice of pending Application in accordance with the above Rules of Practice if so directed by LUPC.)

Black Diamond Consultants BDC Project: USCC-119

ATTACHMENT # 16 USCC FINANCIAL CAPABILITY

U.S. Cellular is a multi billion dollar company traded on Wall Street. Please refer to the following additional financial information.

UNITED STATES CELLULAR CORPORATION

ANNUAL REPORT TO SHAREHOLDERS FOR THE YEAR ENDED DECEMBER 31, 2012 Pursuant to SEC Rule 14a-3

The following audited financial statements and certain other financial information for the year ended December 31, 2012, represent U.S. Cellular's annual report to shareholders as required by the rules and regulations of the Securities and Exchange Commission ("SEC").

The following information was filed with the SEC on February 26, 2013 as Exhibit 13 to U.S. Cellular's Annual Report on Form 10-K for the year ended December 31, 2012. Such information has not been updated or revised since the date it was originally filed with the SEC. Accordingly, you are encouraged to review such information together with any subsequent information that we have filed with the SEC and other publicly available information.

United States Cellular Corporation Consolidated Statement of Operations

Year Ended December 31,	2012	2011	2010
(Dollars and shares in thousands, except per share amounts)			
Operating revenues			****
Service	\$4,098,856	\$4,053,797	\$3,913,001
Equipment sales	353,228	289,549	264,680
Total operating revenues	4,452,084	4,343,346	4,177,681
Operating expenses			
System operations (excluding Depreciation, amortization and			
accretion reported below)	946,805	929,379	854,931
Cost of equipment sold	935,947	791,802	756,290
Selling, general and administrative (including charges from affiliates of \$104.3 million, \$104.1 million and \$107.5 million			
in 2012, 2011 and 2010)	1,764,933	1,769,701	1,783,315
Depreciation, amortization and accretion	608,633	573,557	570,955
(Gain) loss on asset disposals and exchanges, net	18,088	(1,873)	10,717
(Gain) loss on sale of business and other exit costs, net	21,022		_
Total operating expenses	4,295,428	4,062,566	3,976,208
Operating income	156,656	280,780	201,473
Investment and other income (expense)			
Equity in earnings of unconsolidated entities	90,364	83,566	97,318
Interest and dividend income	3,644	3,395	3,808
Gain (loss) on investment	(3,718)	11,373	=
Interest expense	(42,393)	(65,614)	(61,555)
Other, net	500	(678)	72
Total investment and other income (expense)	48,397	32,042	39,643
Income before income taxes	205,053	312,822	241,116
Income tax expense	63,977	114,078	81,958
Net income Less: Net income attributable to noncontrolling interests, net	141,076	198,744	159,158
of tax	(30,070)	(23,703)	(23,084)
Net income attributable to U.S. Cellular shareholders	\$ 111,006	\$ 175,041	\$ 136,074
Basic weighted average shares outstanding	84,645	84,877	86,128
shareholders	\$ 1.31	\$ 2.06	\$ 1.58
Diluted weighted average shares outstanding Diluted earnings per share attributable to U.S. Cellular	85,067	85,335	86,518
shareholders	\$ 1.30	\$ 2.05	\$ 1.57

The accompanying notes are an integral part of these consolidated financial statements.

Black Diamond Consultants
BDC Project: USCC-119

ATTACHMENT # 17

SOIL INFORMATION

(The soil in the project area is designated as very stony to gravelly loam. This soil is considered suitable by USCC, for the construction of a telecommunications facility and access road as depicted in the Site Plan. Please see the attached information on area soil.)

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

	<u> </u>		Soil Layer	Information			
	Воц	ındary		Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	2 inches	very stony - silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
2	2 inches	18 inches	silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6,00 Min: 3,60
3	18 inches	65 inches	gravelly - loam	Silt-Clay Materials (more than 35 pct, passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.00	Max: 6.50 Min: 5.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely stony - silt loam

extremely stony - muck

extremely stony - fine sandy loam

very stony - loam

Surficial Soil Types: extremely stony - silt loam

extremely stony - muck extremely stony - fine sandy loam

muck

very stony - loam

Shallow Soil Types: channery - fine sandy loam

Deeper Soil Types: gravelly - silt loam

unweathered bedrock very channery - sandy loam

channery - silt loam channery - loam

muck silt loam

gravelly - fine sandy loam fine sandy loam

ATTACHMENT # 18 CERTIFICATE OF GOOD STANDING





Corporate Name Search

Information Summary

Subscriber activity report

This record contains information from the CEC database and is accurate as of: Thu Jun 13 2013 12:05:47. Please print or save for your records.

Legal Name **Charter Number** Filing Type **Status**

MAINE RSA **BUSINESS** 19902308 D

GOOD #1, INC. CORPORATION **STANDING**

Filing Date **Expiration Date** Jurisdiction

05/29/1990 N/A MAINE

Other Names (A=Assumed; F=Former)

U.S. CELLULAR A

CELLULAR DIRECT A

Clerk/Registered Agent

SEVERIN M. BELIVEAU 45 MEMORIAL CIRCLE AUGUSTA, ME 04330

Back to previous screen

New Search

Click on a link to obtain additional information.

List of Filings View list of filings

Obtain additional information:

Short Form without Long Form with

Certificate of Existence (more info) amendments amendments

(\$30.00)(\$30.00)

You will need Adobe Acrobat version 3.0 or higher in order to view PDF files. If you encounter problems, visit the troubleshooting page.



State of Maine



Department of the Secretary of State

I, the Secretary of State of Maine, certify that according to the provisions of the Constitution and Laws of the State of Maine, the Department of the Secretary of State is the legal custodian of the Great Seal of the State of Maine which is hereunto affixed and of the reports of organization, amendment and dissolution of corporations and annual reports filed by the same.

I further certify that BLACK DIAMOND CONSULTANTS, INC. is a duly organized business corporation under the laws of the State of Maine and that the date of incorporation is February 18, 2000.

I further certify that said business corporation has filed annual reports due to this Department, and that no action is now pending by or on behalf of the State of Maine to forfeit the charter and that according to the records in the Department of the Secretary of State, said corporation is a legally existing business corporation in good standing under the laws of the State of Maine at the present time.

In testimony whereof, I have caused the Great Seal of the State of Maine to be hereunto affixed. Given under my hand at Augusta, Maine, this twenty-first day of September 2012.

Charles E. Summers, Jr. Secretary of State

ATTACHMENT # 19

OCCUPANTS ADJACENT TO THE PROPOSED FACILITY PROPERTY

Map/Lot Number	Record Owner	Address
4-18	Michael and Nancy Marshall	951 West Street, Big Lake Township, Maine 04668
4-20	Scott Campbell	PO Box 685 Princeton, Maine 04668
4-21	Guy Landry	PO Box 735, Princeton, Maine 04668
4-22	Pamela Cochran	PO Box 693, Princeton, Maine 04668
4-23	Christopher Cochran	PO Box 143, Princeton, ME 04668
4-24	Wayne Haskell	180 Kidder Hill Road, Holden, Maine 04429
4-25	Christopher Cochran	PO Box 143, Princeton, Maine 04668
4-26	Christopher Cochran	PO Box 143, Princeton, Maine 04668
4-30	Jeanette Dwelley	PO Box 345, Princeton, Maine 04668

ATTACHMENT #20

ADDITIONAL INFORMATION ON (1) TOWER FAILURE CONCERNS, (2) TOWER CO-LOCATION, (3) TOWER ABANDONMENT



Title: Tower Failure Evaluation

From: Black Diamond Consultants

To: Land Use Planning Commission (LUPC)

Black Diamond, in consultation with USCC and tower designers, is pleased to provide the following information on the design of Telecommunication Towers to national standards.

Communications towers are designed not to fail. The proposed self supported lattice tower will be designed to withstand substantial wind and ice loading in accordance with the nationally accepted design standard "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", ANSI Standard ANSI/EIA/TIA-222-G. Safety factors are included in the design of the tower, as required by the ANSI Standard. The tower is comprised of galvanized structural steel sized to meet the design wind and ice loads, including design safety factor. A substantial reinforced concrete foundation structure is designed to properly anchor the structure against the design wind and ice loads, including safety factor margins.

For example a typical foundation for a 190' self-supporting lattice tower occupies a volume of approximately 60 cubic yards of reinforced (re-barred) concrete for a total weight of approximately 122 tons which supports a tower structure of approximately 24 tons. The foundation, as such, weighs over five (5) times the weight of the tower. It is not reasonable to expect that such a tower would topple over a foundation that is 5 times its weight.

Again, towers are engineered structures and any catastrophic loading beyond predicted conditions, (i.e. natural disasters, such as, tornadoes, hurricanes) would also result in the devastation of the surrounding area.

As previously mentioned, steel towers are manufactured from structural steel materials that do not fail by brittle fracture, which is a common mode of failure for a wooden structure such as a tree, but would experience a ductile (bending) mode of failure and thus would tend to fold over on itself with little or no impact on any area beyond the site developed area.

PHONE: 207.582.0056 FACSIMILE: 207.582.9098



Title: Tower Design for Co-Location

From: Black Diamond Consultants

To: Land Use Planning Commission (LUPC)

The new wireless telecommunication facility and related equipment has been designed and will be constructed to provide accommodation for the future co-location of four (4) additional wireless telecommunication providers. Please refer to the Site Plan for additional information on the proposed tower design for future co-location.



Title: Tower Abandonment

From: Black Diamond Consultants

To: Land Use Planning Commission (LUPC)

RSA #4 d/b/a USCC has entered into a lease agreement with property owner, Mr. Christopher Cochran or its successor, and has made application to LUPC for a Permit to construct a wireless telecommunications tower at the leased site. USCC provides guarantee for the removal and disposal of the tower when the lease expires or is terminated or the site is abandoned.

Black Diamond Consultants
BDC Project: USCC-119

ATTACHMENT #21

SITE ENGINEERING DRAWINGS

(Please refer to the attached Site Plan Engineering Drawings for the Proposed Project. The Site Plan is provided to you under separate cover.)





www.BLCKDiamond.net

312 Water Street PO Box 57 Gardiner, ME 04345 111 New Hampshire Avenue Portsmouth, NH 03801

tel 207.582.0056 fax 207.582.9098 tel 603.570.2281

BDC PROJECT USCC-119

UNITED STATES CELLULAR CORPORATION

SITE NAME: PRINCETON

424342 SITE NUMBER:

LATITUDE: 45° 10′ 29.2″ 67° 36′ 35.3″ LONGITUDE:

VICINITY MAP

Take exit 182A to merge onto I-395 E/ME-15 S toward Bangor-Brewer/U.S. 1A/ME-9 (2.0 mi) Take exit 4 for ME-15 S/ME-9 E/S Main St toward Brewer (0.2 mi) keep right at the fork, follow signs for Brewer/Calais and merge onto ME-15 N/ME-9 E/S Main St Continue to follow ME-9 E (69.6 mi) Turn left toward Stud Mill Rd (7.7 mi) Turn right onto Stud Mill Rd (4.7 mi) continue onto West St (1.5 mi) Destination will be on the right.

LEGEND



DETAIL NUMBER

SHEET ON WHICH DETAIL APPEARS



SECTION NUMBER

SHEET ON WHICH SECTION APPEARS



ELEVATION NUMBER

SHEET ON WHICH ELEVATION APPEARS

POLE MOUNTED

- POWER SUPPLY

SEALED CONCRETE

SOB - SECURITY OPERATIONS BUILDING

UPS - UNINTERRUPTABLE POWER SUPPLY

UNO - UNLESS NOTED OTHERWISE

- SILTATION FENCE

SP - SECURITY PANEL

VIF - VERIFY IN FIELD

WM - WALL MOUNTED

SPEC - SPECIFICATION

PT - POINT OF TANGENT

QTY — QUANTITY

RR - RAILROAD

TYP - TYPICAL

R - RADIUS

QUAD — QUADSPLITTER

PROJECT INFORMATION

SITE ADDRESS **WEST STREET**

BIG LAKE TOWNSHIP, MAINE 04668

APPLICANT

UNITED STATES CELLULAR CORPORATION c/o BLACK DIAMOND CONSULTANTS, INC 312 WATER STREET PO BOX 57

BANGOR HYDRO ELECTRIC COMPANY 970 ILLINOIS AVENUE BANGOR, MAINE 04401 207.945.5621

FAIRPOINT COMMUNICATIONS 627 ROUTE 3 SOUTH CHINA, MAINE 04358 866.984.3001

DRAWING INDEX

COVERSHEET (CVR) CVR-1A-0 COVERSHEET

SURVEY (SUR) SUR-1A-1 PLOT PLAN

CIVIL (CIV)

PDF PRINTS

SCALE MAY VARY DUE TO INDIVIDUAL PRINTER SETTINGS

CIV-1A-1 SITE PLAN

CIV-1B-0 ACCESS ROAD PROFILE

CIV-2A-0 COMPOUND LAYOUT PLAN

CIV-3A-0 CELLULAR EQUIPMENT

SHELTER ELEVATIONS

CIV-4A-0 FOUNDATION AND STOOP DETAILS

CIV-5A-0 FENCE, TRENCH AND ICE BRIDGE DETAILS

ARCHITECTURAL (ARC) ARC-1A-0 TOWER ELEVATION AND ANTENNA LOCATION SECTION

ELECTRICAL (ELE)

ELE-1A-0 ELECTRICAL DETAILS ELE-1B-0 ELECTRICAL AND TELCO DETAILS ELE-2A-0 GROUNDING DETAILS

ENVIRONMENTAL (ENV) ENV-1A-0 ENVIRONMENTAL & CIVIL DETAILS

ABBREVIATIONS

A/C - AIR CONDITIONING ALUM — ALUMINUM AMSL - ABOVE MEAN SEA LEVEL AMC - ACCESS MASTER CONTROL BLDG - BUILDING BTS - BARE TINNED STRANDED CAM — CAMERA - CAMERA ENCLOSURE CENTERLINE

- CORRUGATED METAL PIPE CONC - CONCRETE DIAMETER DISTRIBUTION PANEL DIGITAL VIDEO RECORDER DRAWING - EMERGENCY DISTRIBUTION

 EXTERNAL GROUND BAR EXTERNAL GROUND RING - EACH FACE - EACH WAY ELEVATION - ELECTRICAL ETCETERA FIBER CONVERTER

FCDAT - FIBER CONVERTER, DATA

FCT - FIBER CONVERTER, TELEPHONE FE - FIBER ENCLOSURE

FNDN — FOUNDATION GALV — GALVANIZED GFI — GND FAULT INTERRUPTER GH - GATEHOUSE GND — GROUND HR - HOUR HT - HEIGHT

IGB — ISOLATED GROUND BAR LC - LIGHTING CONTACTOR LP - LIGHTING PANEL MAX — MAXIMUM MECH - MECHANICAL

MS - MATRIX SWITCH

MIGB - MASTER ISOLATION GROUND BAR MIN - MINIMUM MISC - MISCELLANEOUS MON - MONITOR MRF - MANUFACTURER

NIC - NOT IN CONTRACT NTS - NOT TO SCALE OC — ON CENTER PAS - PRIMARY ALARM STATION PC - POINT OF CURVE PDE - POWER DISTRIBUTION ENCLOSURE GARDINER, MAINE 04345

PROPERTY OWNER

CHRISTOPHER COCHRAN PO BOX 143 PRINCETON, MAINE 04668

ELECTRICAL COMPANY

TELEPHONE COMPANY

SIGNED	DATI
SIGNED	DATI
SIGNED	DATI
SIGNED	DATE
SIGNED	DATI
SIGNED	DATI
SIGNED	DA

DRAWING USCC-119_CVR-1A-0 BDC: P/DRAFTING/BDC/USCC-119/USCC-119_CVR-1A-0

BDC PROJECT(S)
USCC-119

S 85°00'13" E

N 85°00'13" W

5/8" IRON REBAR SET (TYPICAL)

LINE TABLE

CURVE TABLE LENGTH

70.84

30.63

34.40

41.27

22.64

53.84

424342

983 West Street

Christopher Cochran

Map 4-Lot 25

April 2013

Ground Elev. = 220'

Magnetic North 2013

Book 1885-Page 171

Big Lake Township, ME 04668

PO Box 57 312 Water Street

National Geodetic Vertical Datum of 1929, (Mean Sea Level)

North American Datum of 1983 (NAD83)

Latitude= N 45° 10′ 29.2″ (NAD 83) Longitude= W 67° 36′ 35.3″ (NAD 83)

U.S. Cellular c/o Black Diamond Consultants, Inc.

Gardiner, Maine 04345 207.582.0056

BEARING

S 82°59'08" E

N 82°59'08" W

RADIUS 125.00

115.00

150.00

180.00

85.00

95.00

LENGTH

67.35

61.44

LINE

Ll

L2

CURVE

CI

C2

C3

C4

C5

C6

NOTES:

2) Site Number:

3) Site Address:

4) Owner:

5) Applicant:

6) Tax Parcel Identification:

7) Deed Reference:

8) Vertical Datum:

9) Horizontal Datum:

12) Directions:

10) Date of Field Survey:

11) Center of Proposed Tower:

Classification: UNCLASSIFIED

NON-Q

BLACK DIAMOND

CONSULTANTS INC

PLOT PLAN

U.S.Cellular

DRAWING

USCC-119_SUR-1A-1

DESCRIPTION OF LEASE AREA: That tract of land located 790 feet, more or less, easterly from West Street, in Big Lake Township,

Beginning at a 5/8-inch rebar set, marking the most southwest corner of the herein described parcel, said rebar being the point of beginning

Thence N 04°59'47" E and 200.00 feet to a 5/8-inch rebar set;

Washington County, Maine, being more particularly described as follows:

Thence S 04°59'47" W and 200.00 feet to a 5/8-inch rebar set;

Thence S 85°00' I 3" E and 200.00 feet to a 5/8-inch rebar set;

Thence N 85°00' I 3" W and 200.00 feet to the point of beginning.

Meaning and intending to be 40,000 square feet of land.

Bearings are based on Magnetic North, 2013.

NOW OR FORMERLY LANDRY

TAX MAP 4 LOT 21 PO BOX 735, PRINCETON, ME 04668

TAX MAP 4 LOT 22 PO BOX 693, PRINCETON, ME 04668

NOW OR FORMERLY **COCHRAN** PAMELA

DESCRIPTION OF COMBINED 30' UTILITY/ACCESS EASEMENT

That tract of land located on the easterly sideline of West Street, in Big Lake Township, Washington County, Maine, being more particularly described as follows:

Commencing on the said easterly sideline of West Street, at the southeasterly corner of land now or formerly of Scott Campbell (WCRD 3487-041);

Thence S O4°07'09" E along the said easterly sideline of West Street and 175 feet, more or less, to a point, said point being the point of beginning;

Thence S 82°59'08" E and 67.35 feet to a point of curvature; Thence along a curve to the left having a radius of 120.00 feet and an arc length of 72.78 feet to a point of

Thence along a curve to the right having a radius of 125.00 feet and an arc length of 70.84 feet to a point; Thence S 87°07'31" E and 192.12 feet to a point of curvature;

Thence along a curve to the right having a radius of 115.00 feet and an arc length of 30.63 feet to a point; Thence S 71°51'56" E and 103.92 feet to a point of curvature; Thence along a curve to the left having a radius of 150.00 feet and an arc length of 34.40 feet to a point;

Thence S 85°00'13" E and 253.44 feet to a point;

Thence S 04°59'47" W and 30.00 feet to a point; Thence N 85°00'13" W and 253.44 feet to a point of curvature;

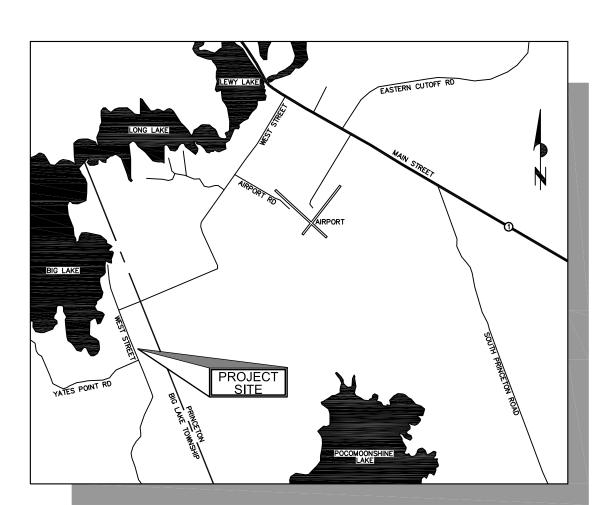
Thence along a curve to the right having a radius of 180.00 feet and an arc length of 41.27 feet to a point; Thence N 71°51'56" W and 103.92 feet to a point of curvature;

Thence along a curve to the left having a radius of 85.00 feet and an arc length of 22.64 feet to a point; Thence N 87°07'31" W and 192.12 feet to a point of curvature;

Thence along a curve to the left having a radius of 95.00 feet and an arc length of 53.84 feet to a point of reverse curvature;

Thence along a curve to the right having a radius of 150.00 feet and an arc length of 90.98 feet to a point; Thence N 82°59'08" W and 61.44 feet to a point and the said easterly sideline of West Street; Thence N 04°07'09" W along the said easterly sideline of West Street and 30.58 feet to the point of

Bearings are based on Magnetic North, 2013.



VICINITY MAP ~ NOT TO SCALE

Classification: UNCLASSIFIED | SITE NAME: Quality Category:

NON-Q | SITE NUMBER:

PRINCETON

424342

NOW OR FORMERLY **COCHRAN** CHRISTOPHER

NOW OR FORMERLY

CAMPBELL

SCOTTWCRD 3487-041

TAX MAP 4 LOT 20

PO BOX 685, PRINCETON, ME 04668

> TAX MAP 4 LOT 23 PO BOX 143, PRINCETON, ME 04668

WCRD 1885-17

I 6" CORRUGATED METAL PIPE

N 87°07'31" W-22

12" CORRUGATED

PROPOSED COMBINED 30' UTILITY/ACCESS EASEMENT

NOW OR FORMERLY HASKELL

WAYNE WCRD 3781-020 TAX MAP 4 LOT 24 180 KIDDER HILL ROAD, HOLDEN, ME 04429

> NOW OR FORMERLY **COCHRAN** CHRISTOPHER WCRD |885-171 TAX MAP 4 LOT 26 PO BOX 143,

PRINCETON, ME 04668

NOW OR FORMERLY **DWELLEY** JEANETTE WCRD 3487-041 TAX MAP 4 LOT 30 PO BOX 345, PRINCETON, ME 04668

GRAPHIC SCALE

(IN FEET)

SURVEYOR'S NOTES.

This is not a Standard Boundary Survey as limited research was performed per client request. Boundaries shown on this plan have been compiled from tax maps and face deeds and are apparent

All iron pins set are 5/8" rebar, with an orange plastic surveyor's cap marked PLS 2189. All bearings are Magnetic North 2013, derived from a compass reading. No easements of record encumber the proposed lease area and/or the proposed combined

+/- Twenty (20) feet vertically

Edward M. Lawrence PLS 2189

BDC JOB ORDER(S

CLIENT DATA

-PROPOSED LEASE AREA

NOW OR FORMERLY

COCHRAN

CHRISTOPHER WCRD | 885-171

TAX MAP 4 LOT 25 PO BOX 143,

PRINCETON, ME 04668

property lines.

utility/access easement, unless shown hereon.

FAA CERTIFICATION-2C:

I Hereby certify that the Latitude, Longitude, and elevation presented hereon meets the requirements of the FAA with the following accurances:

+/- Fifty (50) feet horizontally

DATE

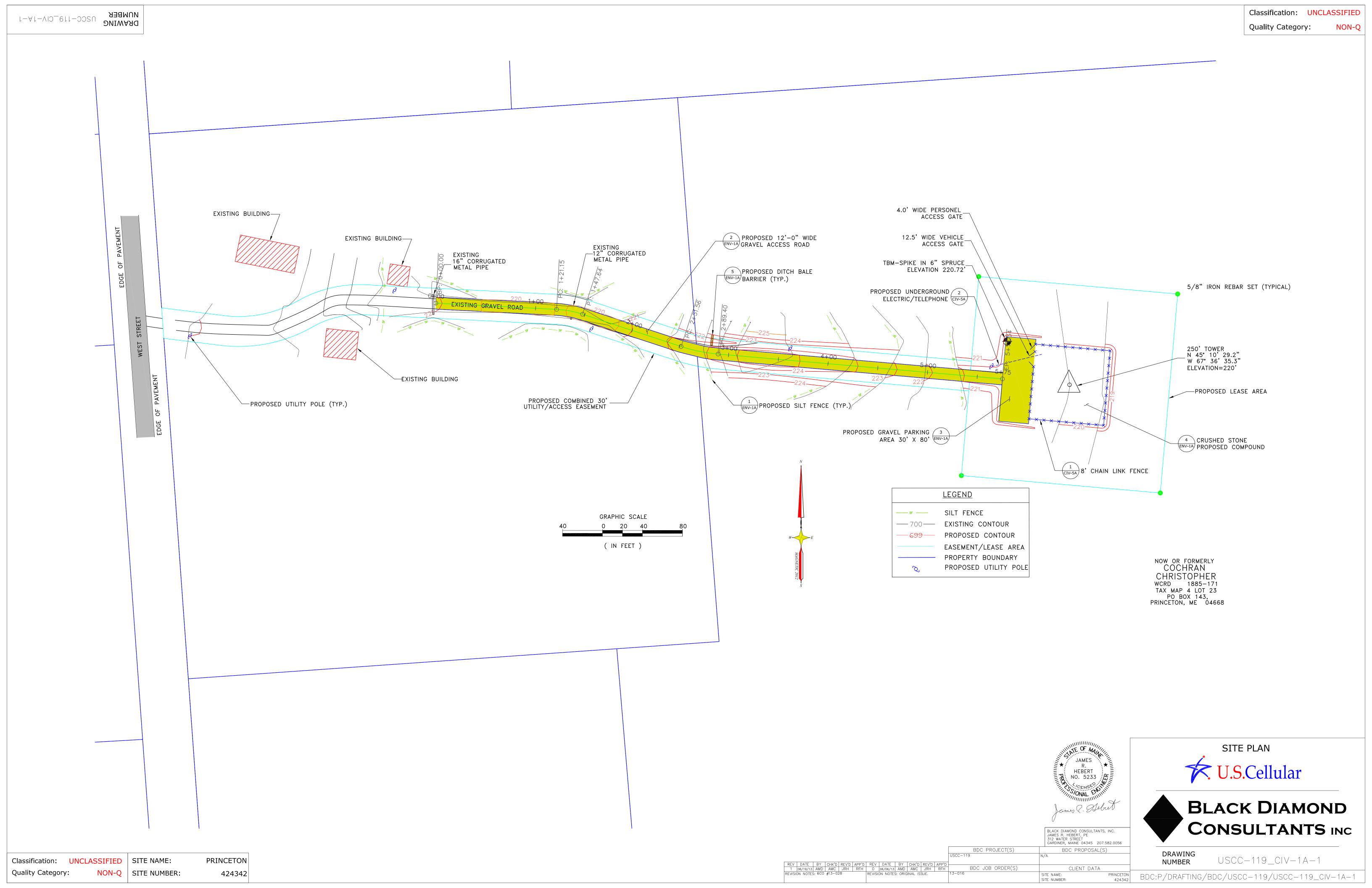
03/21/13

NUMBER PRINCETON 424342 BDC:P/DRAFTING/BDC/USCC-119/USCC-119_SUR-1A-1

CAPITAL SURVEYING SERVICES INC. EDWARD M. LAWRENCE, PLS 11 MAINE AVENUE GARDINER, MAINE 04345 207.582.1800

LAWRENCE #2189 BDC PROPOSAL(S)

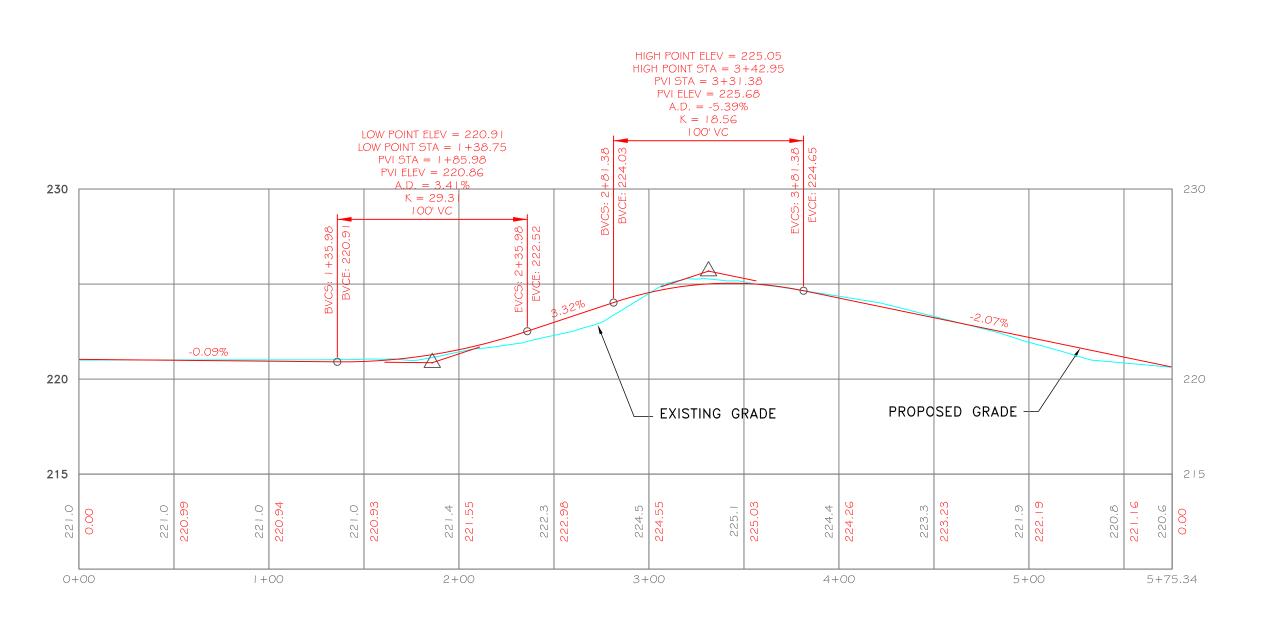
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NOMBER USCC-119_CIV-1B-0

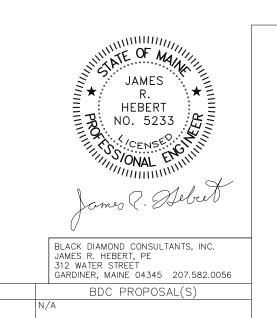
Classification: UNCLASSIFIED

Quality Category: NON-Q



HORIZONTAL GRAPHIC SCALE
0 50 100
(IN FEET)

VERTICAL GRAPHIC SCALE
0 5 10
(IN FEET)





BDC PROJECT(S)

USCC-119

CHK'D REV'D APP'D

AMC JRH RFH

BDC JOB ORDER(S)

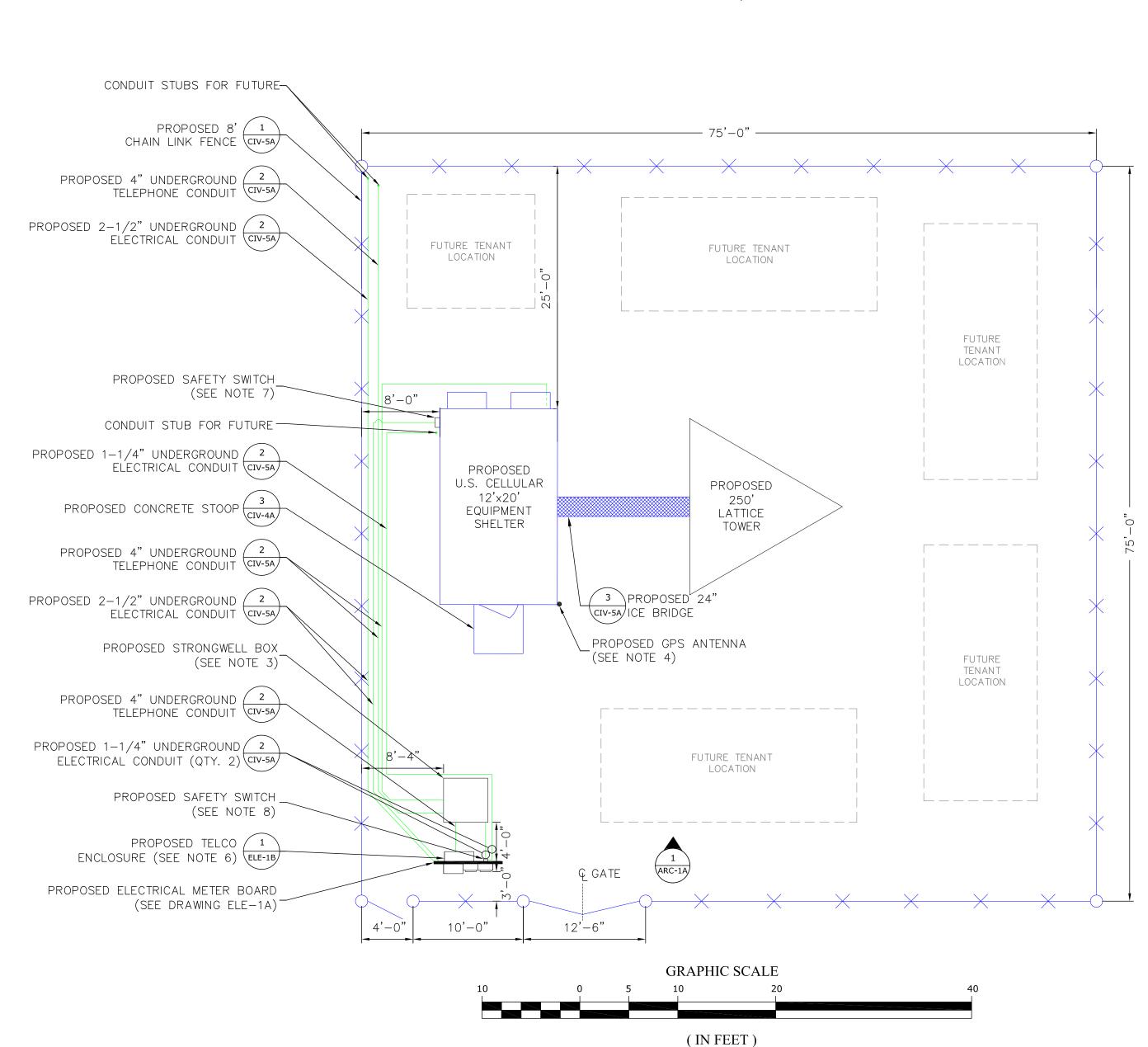
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RAWING
JMBER USCC-119_CIV-1B-0

Classification: UNCLASSIFIED NON-Q

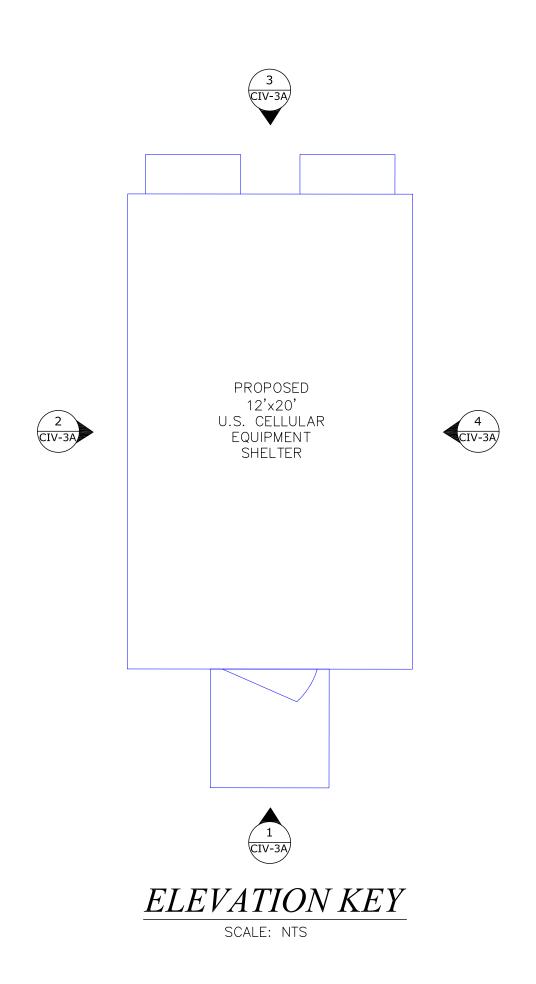
Quality Category:



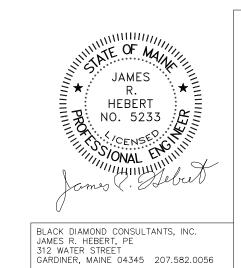


COMPOUND LAYOUT PLAN

SCALE: GRAPHIC SCALE



1. CONTRACTOR SHALL VERIFY EXISTING BURIED UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES. (DIG SAFE UNDERGROUND SERVICE ALERT: (1-888-DIG-SAFE; 1-888-344-7233). 2. ELECTRICAL METER FACE LOCATION: 3'-0" MIN. FROM FENCE. 3. STRONGWELL BOX: QUAZITE BOX; MODEL PG4848Z511. 4. GPS ANTENNA SHALL BE FIELD LOCATED ON EQUIPMENT SHELTER. 5. FUTURE CONDUIT SHALL FOLLOW FENCE LINE. 6. PROPOSED TELCO ENCLOSURE SHALL BE NEMA 3R, 36"x36"x12". 7. PROPOSED SAFETY SWITCH SHALL BE NEMA 3R, NONFUSIBLE, 200A, 600VAC. 8. PROPOSED SAFETY SWITCH SHALL BE NEMA 3R, NONFUSIBLE, 30A, 600VAC.



BDC PROPOSAL(S)



BLACK DIAMOND CONSULTANTS INC

DRAWING NUMBER

USCC-119_CIV-2A-0

USCC-119 BDC JOB ORDER(S) CLIENT DATA SITE NAME: SITE NUMBER:

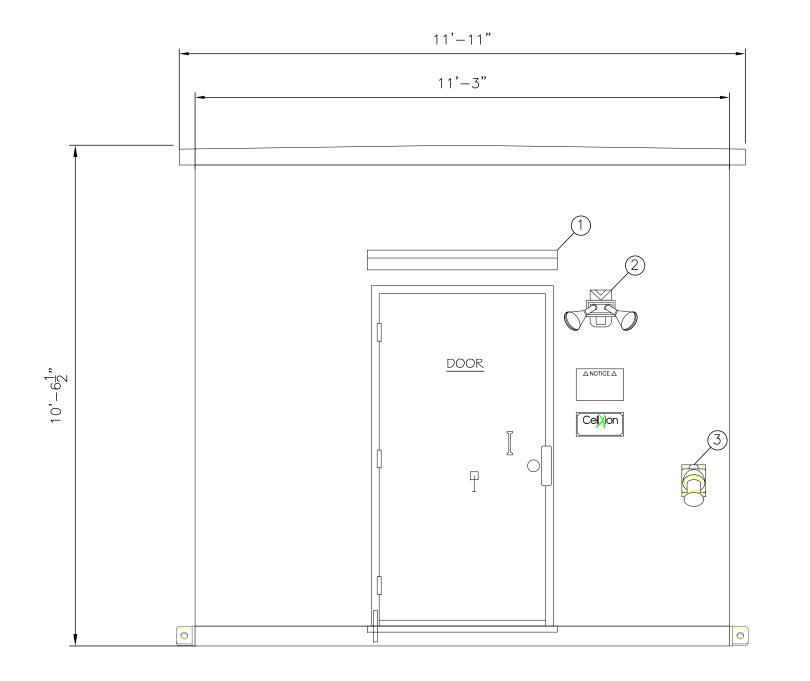
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PRINCETON 424342 BDC:P/DRAFTING/BDC/USCC-119/USCC-119_CIV-2A-0

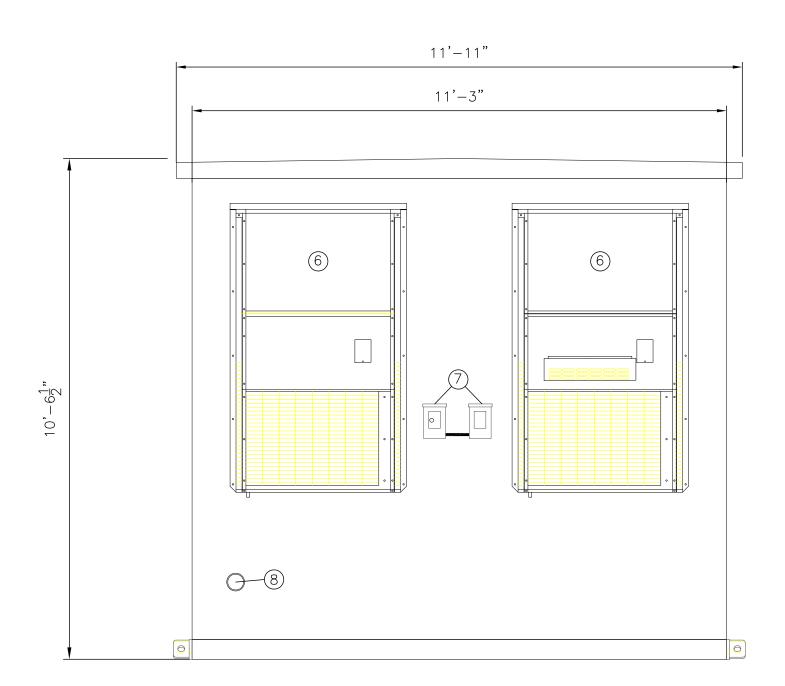
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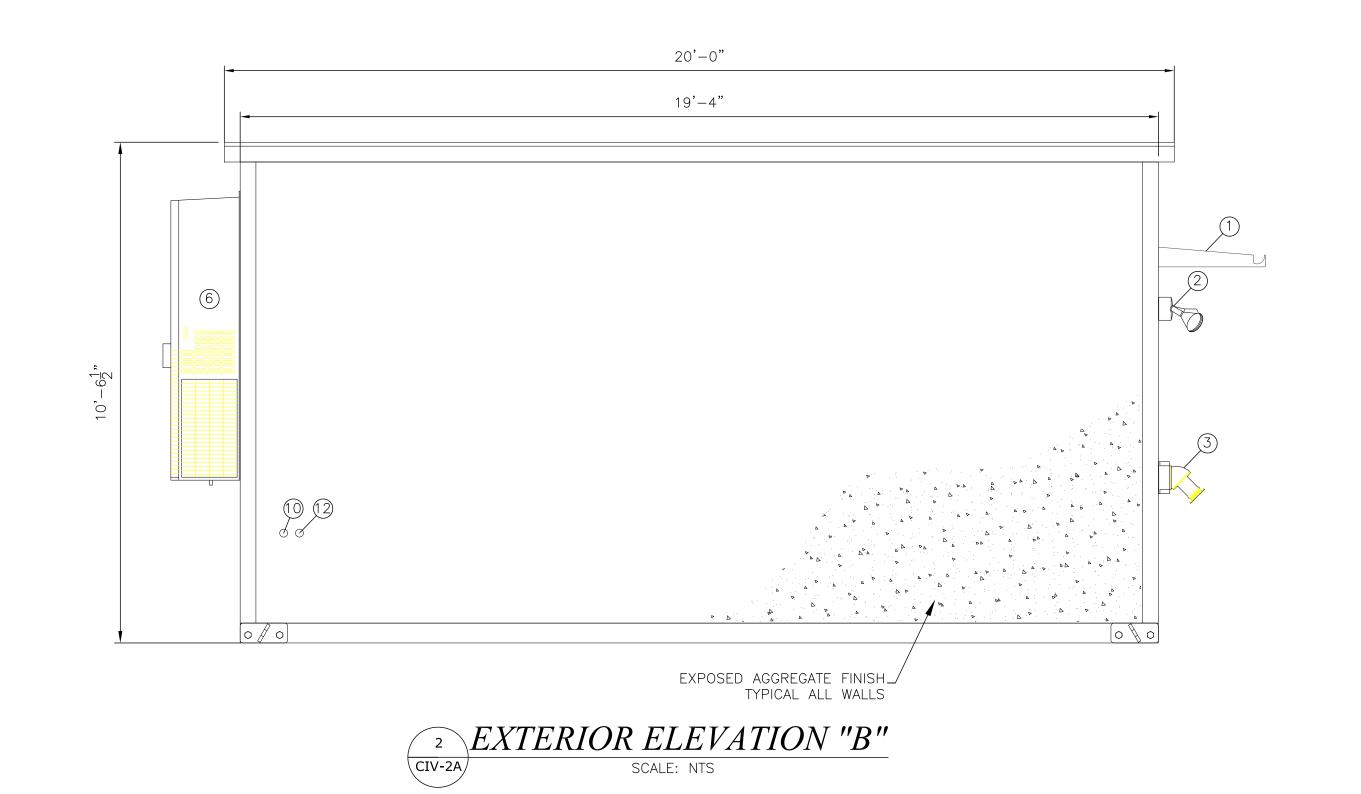
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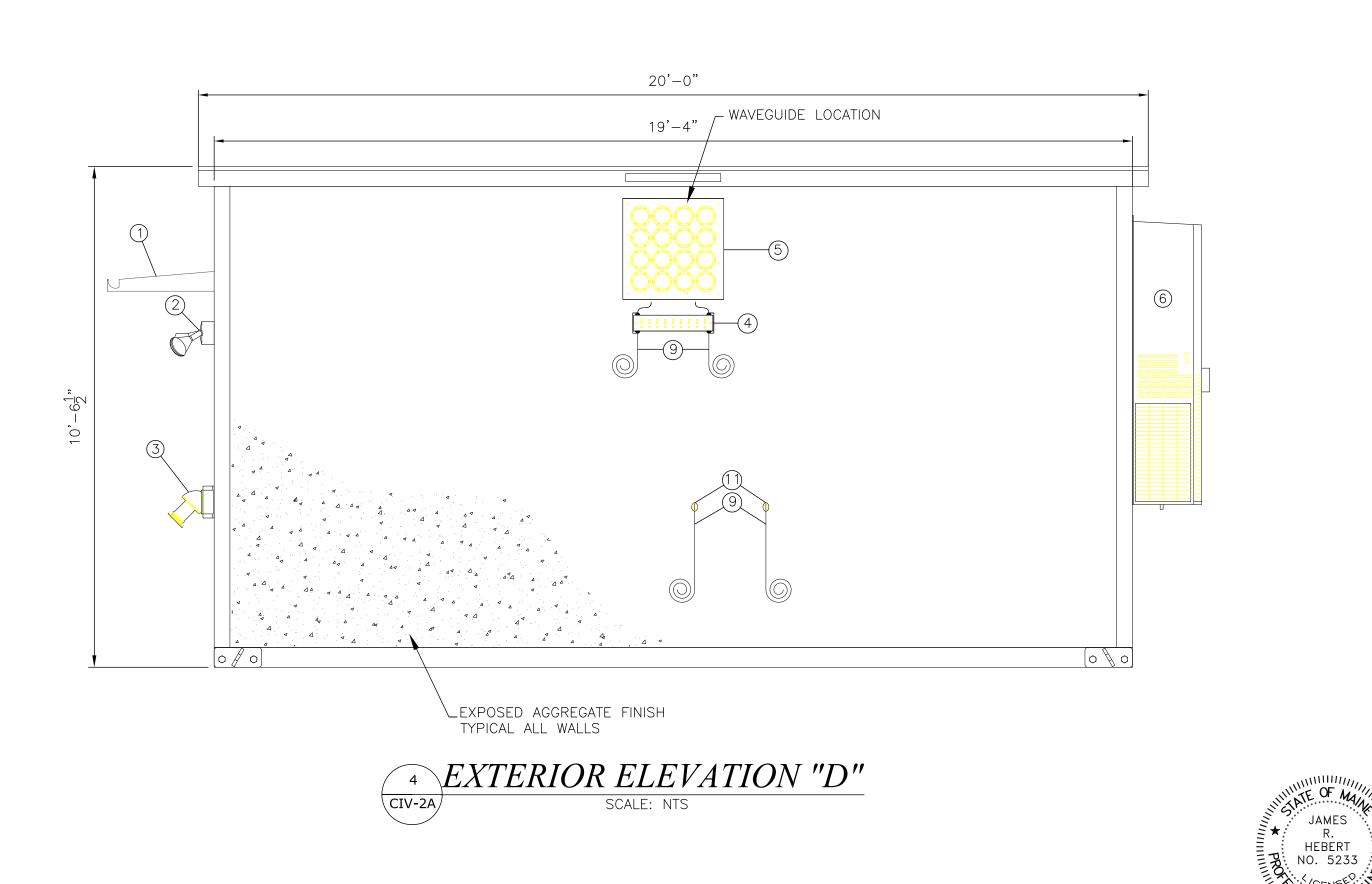


1 EXTERIOR ELEVATION "A" CIV-2A SCALE: NTS



³ EXTERIOR ELEVATION "C" CIV-2A





DESCRIPTION DOOR CANOPY 2 EXTERIOR LIGHT FIXTURE 3 GENERATOR RECEPTACLE 4 EXTERIOR GROUND BAR 5 WAVEGUIDE ENTRY 6 HVAC UNIT 7 JUNCTION BOX 8 | TELCO ENTRY - 4" 9 GROUND CABLE 10 | SERVICE ENTRY 11 GROUND RING ENTRY 12 GENERATOR ENTRY

BUILDING REQUIREMENTS: BUILDING IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS NOT APPLICABLE. PLUMBING REQUIREMENTS:

FACILITY HAS NO PLUMBING.

NOTES:

1. REFERENCE Cellxion Drawings for complete installation and bill of material information.

2. Equipment shelter manufacturer shall be responsible for design and structural components of equipment shelter, and structural attachments to concrete slab.

3. GPS ANTENNA SHALL BE MOUNTED TO EXTERIOR OF FOLIPMENT SHELTER OF EQUIPMENT SHELTER.





USCC-119_CIV-3A-0

PRINCETON Classification: UNCLASSIFIED SITE NAME: Quality Category: NON-Q | SITE NUMBER: 424342

BLACK DIAMOND CONSULTANTS, INC. JAMES R. HEBERT, PE 312 WATER STREET GARDINER, MAINE 04345 207.582.0056 BDC PROPOSAL(S) BDC PROJECT(S) CLIENT DATA

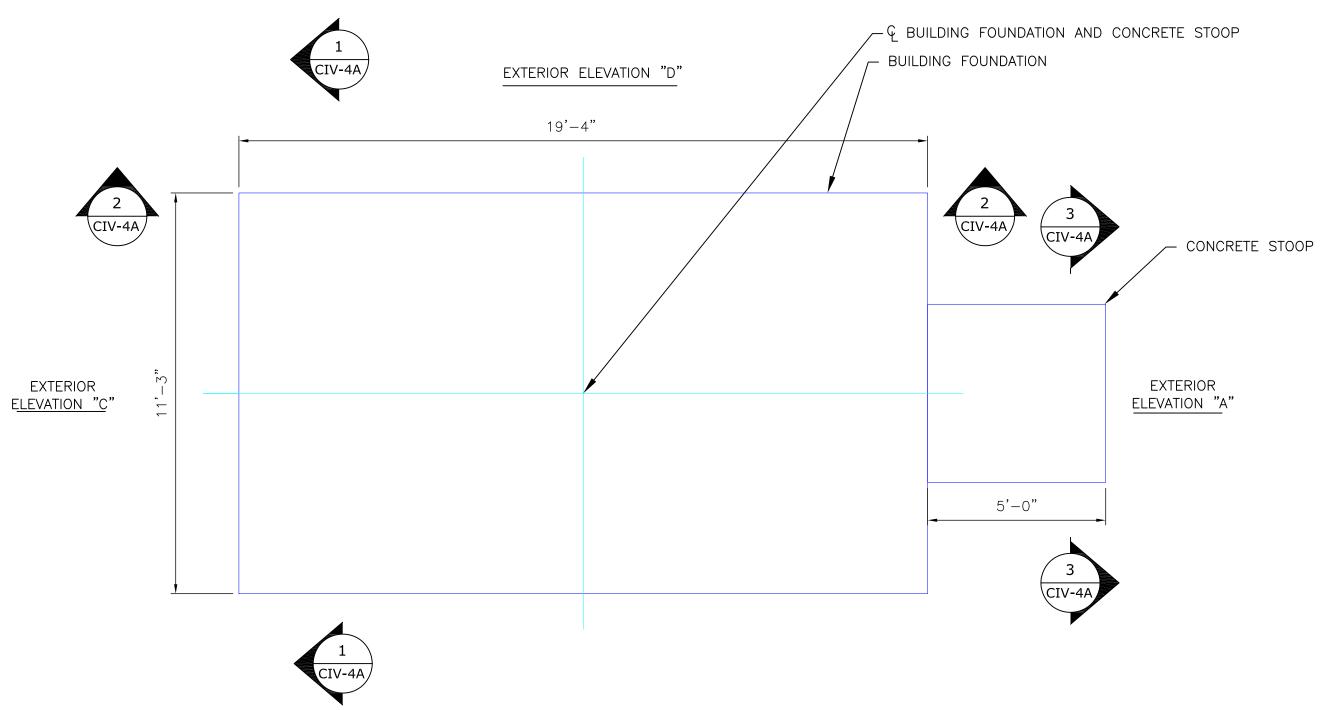
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Classification: UNCLASSIFIED

Quality Category:

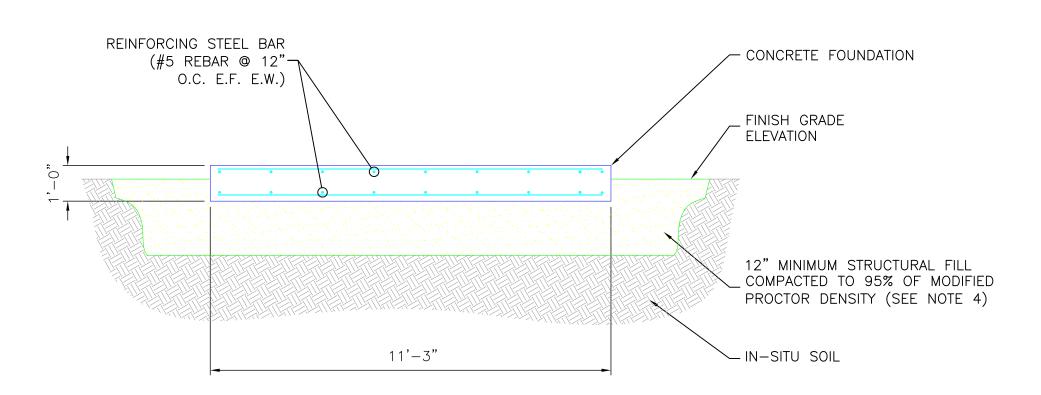
NON-Q

- G BUILDING FOUNDATION AND CONCRETE STOOP BUILDING FOUNDATION

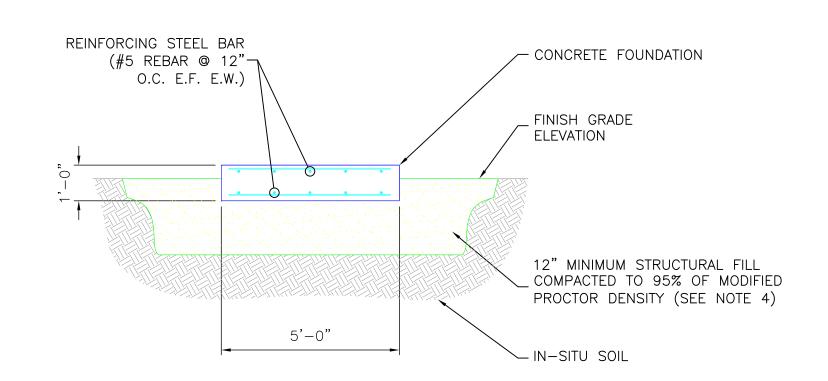


CELLULAR SHELTER FOUNDATION PLAN VIEW SCALE: NTS

EXTERIOR ELEVATION "B"



TYPICAL CELLULAR SHELTER FOUNDATION DETAIL



TYPICAL CELLULAR SHELTER CONCRETE STOOP DETAIL SCALE: NTS

<u>NOTES</u>: 1. CONCRETE

A. ALL CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE LATEST CODES AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."

B. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

2. REINFORCING STEEL

A. REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60.

B. REINFORCING STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315-92, "DETAILS AND DETAILING CONCRETE REINFORCEMENT."

3. CONCRETE PROTECTION OF REINFORCEMENT A MINIMUM CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND REINFORCING STEEL SHALL BE: A. WHERE CONCRETE IS PLACED AGAINST

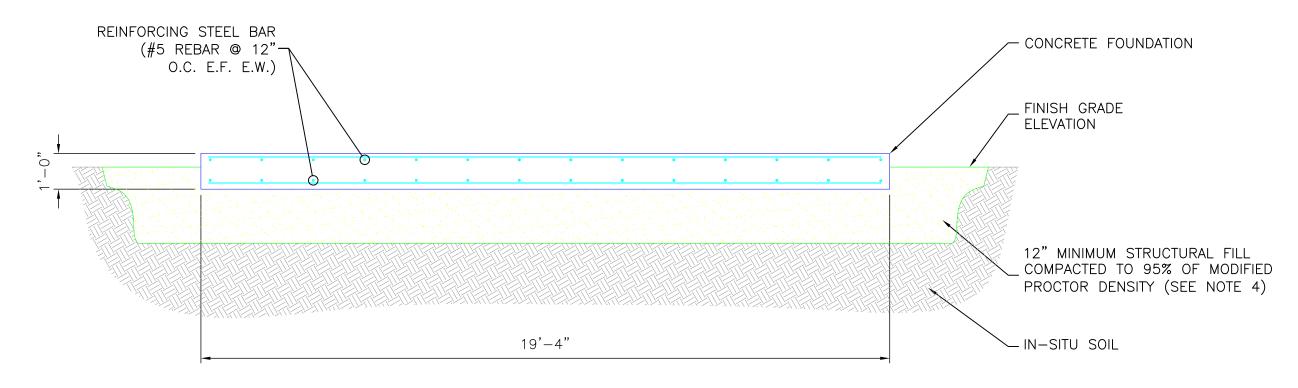
EARTH: 3 INCHES. B. WHERE CONCRETE SURFACES, AFTER FORM REMOVAL ARE EXPOSED TO WEATHER: #5 BARS OR SMALLER: 1 $\frac{1}{2}$ INCHES.

#6 BARS OR LARGER: 2 INCHES. C. WHERE CONCRETE SURFACES ARE NOT EXPOSED TO WEATHER OR GROUND: #11 BARS OR SMALLER: 1 INCH. FOR BEAMS, GIRDERS, AND COLUMNS:

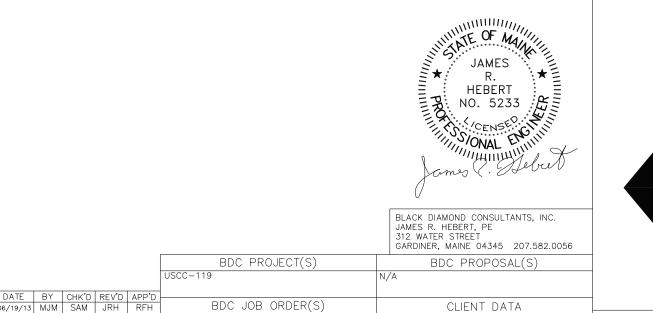
 $1\frac{1}{2}$ INCHES.

4. SUBGRADE BELOW THE SLAB-ON-GRADE SHALL CONSIST OF MINIMUM 12" LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY WITH THE FOLLOWING CHARACTERISTICS. FILL SHOULD BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

> PERCENT FINER 90-100 25 - 70NO. 40 0 - 30NO. 200 0 - 5



² TYPICAL CELLULAR SHELTER FOUNDATION DETAIL







NUMBER

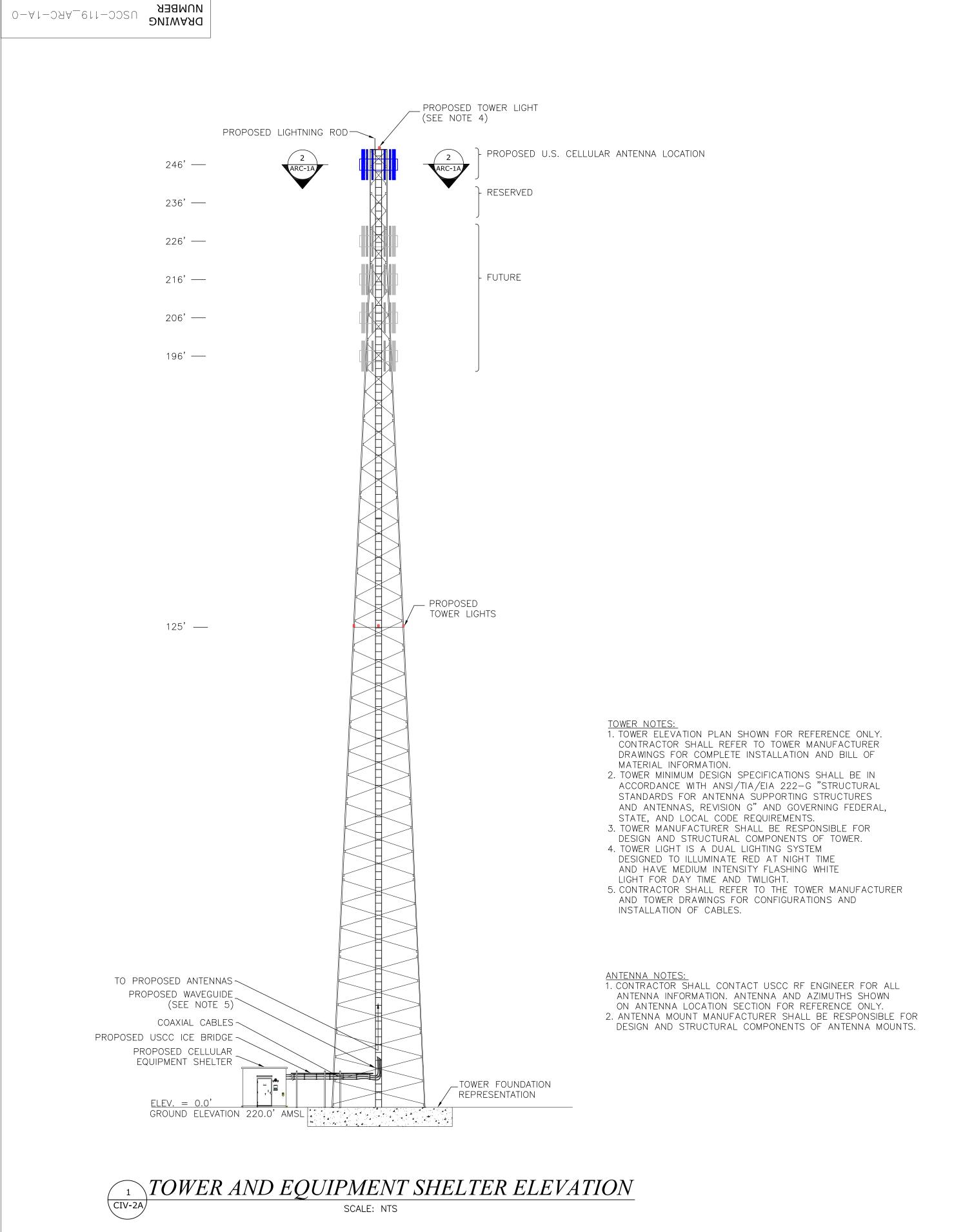
USCC-119_CIV-4A-0

Classification: UNCLASSIFIED SITE NAME: Quality Category:

NON-Q | SITE NUMBER:

PRINCETON 424342

PRINCETON 424342 BDC:P/DRAFTING/BDC/USCC-119/USCC-119_CIV-4A-0



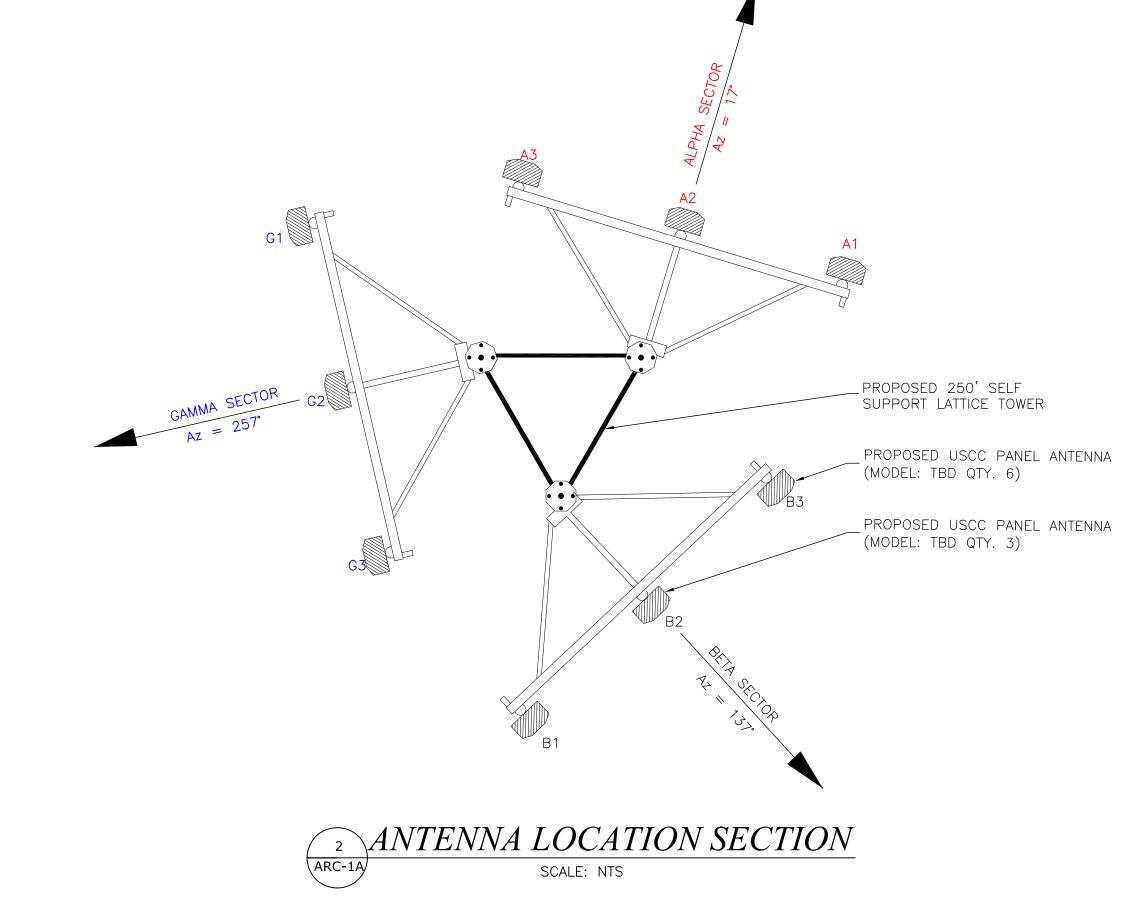
Classification: UNCLASSIFIED SITE NAME:

NON-Q | SITE NUMBER:

Quality Category:

PRINCETON

424342



											COLOR CO	DE
ANTENNA MARK	SECTOR	PANEL ANTENNA	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	RAD CENTER	COAXIAL CABLE	COAXIAL CABLE LENGTH	AZIMUTH (TRUE NORTH)	AZIMUTH (MAGNETIC NORT	SECTOR/ LINE	TECHNOLOGY ID	SPECTRUM ID
A1	A	TBD	O°	_	246'	TBD	290'	O°	17°	R	YEL	BR
A1	А	TBD	0°	_	246'	TBD	290'	0°	17°	RR	YEL	BR
A2	А	TBD	0°	_	246'	TBD	290'	0°	17°	R	OR	GR
A2	А	TBD	0°	_	246'	TBD	290'	0,	17°	RR	OR	GR
А3	А	TBD	0°	_	246'	TBD	290'	0°	17°	RRR	YEL	BR
А3	А	TBD	0°	_	246'	TBD	290'	0°	17°	RRRR	YEL	BR
B1	В	TBD	0°	_	246'	TBD	290'	120°	137°	W	YEL	BR
B1	В	TBD	0°	_	246'	TBD	290'	120°	137°	WW	YEL	BR
B2	В	TBD	0°	_	246'	TBD	290'	120°	137°	W	OR	GR
B2	В	TBD	0°	_	246'	TBD	290'	120°	137°	WW	OR	GR
В3	В	TBD	0°	_	246'	TBD	290'	120°	137°	www	YEL	BR
В3	В	TBD	0°	_	246'	TBD	290'	120°	137°	www	YEL	BR
G1	G	TBD	0°	_	246'	TBD	290'	240°	257°	В	YEL	BR
G1	G	TBD	0°	_	246'	TBD	290'	240°	257°	BB	YEL	BR
G2	G	TBD	0°	_	246'	TBD	290'	240°	257°	В	OR	GR
G2	G	TBD	0°	_	246'	TBD	290'	240°	257°	BB	OR	GR
G3	G	TBD	0°	_	246'	TBD	290'	240°	257°	BBB	YEL	BR
G3	G	TBD	0°	_	246'	TBD	290'	240°	257°	BBBB	YEL	BR

TOWER ELEVATION AND ANTENNA LOCATION SECTION JAMES R. HEBERT 7 NO. 5233 CENSE CHILI BLACK DIAMOND CONSULTANTS, INC. JAMES R. HEBERT, PE 312 WATER STREET GARDINER, MAINE 04345 207.582.0056

BLACK DIAMOND CONSULTANTS INC

U.S.Cellular

DRAWING NUMBER

BDC PROJECT(S) BDC PROPOSAL(S) USCC-119 BDC JOB ORDER(S) CLIENT DATA SITE NAME: SITE NUMBER:

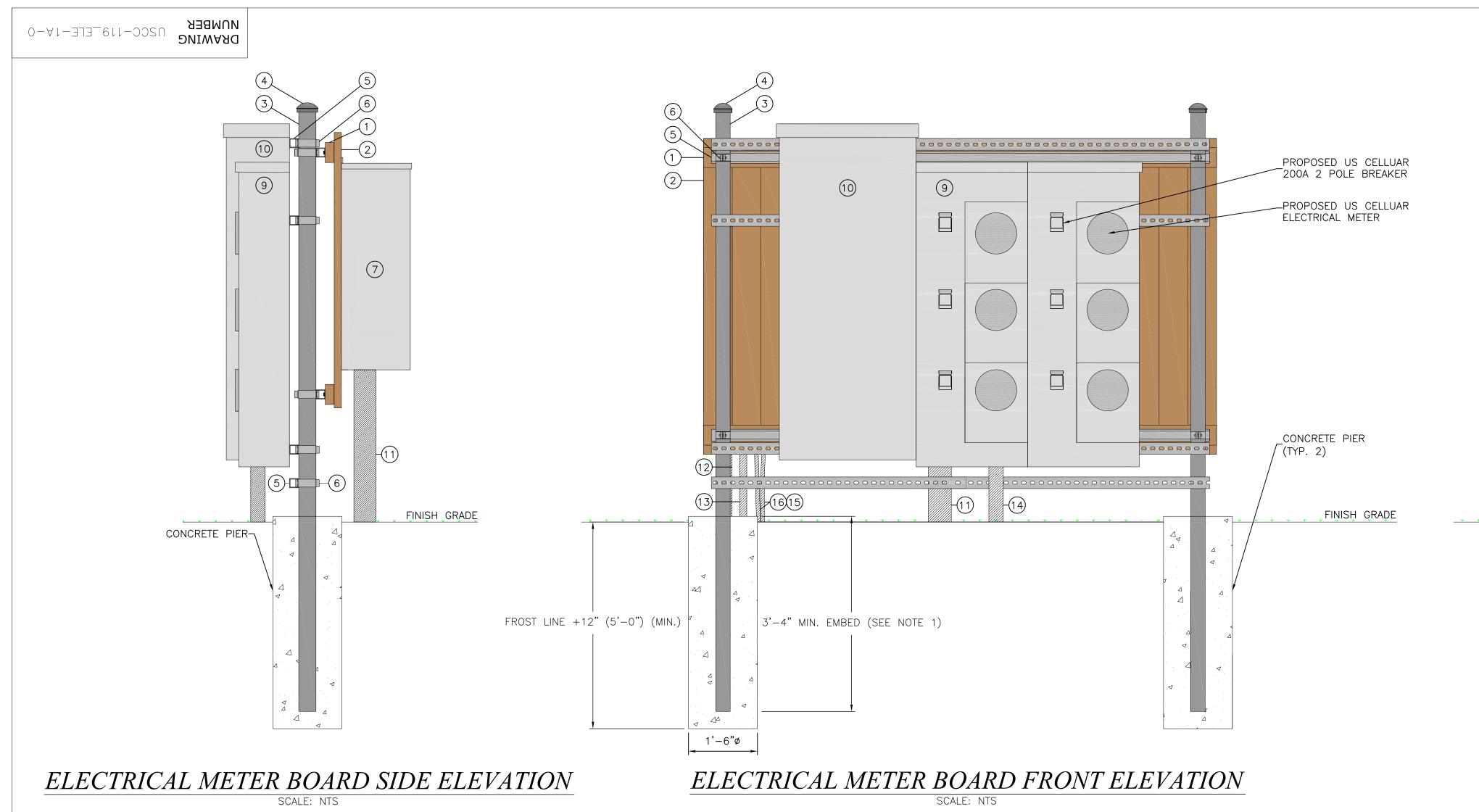
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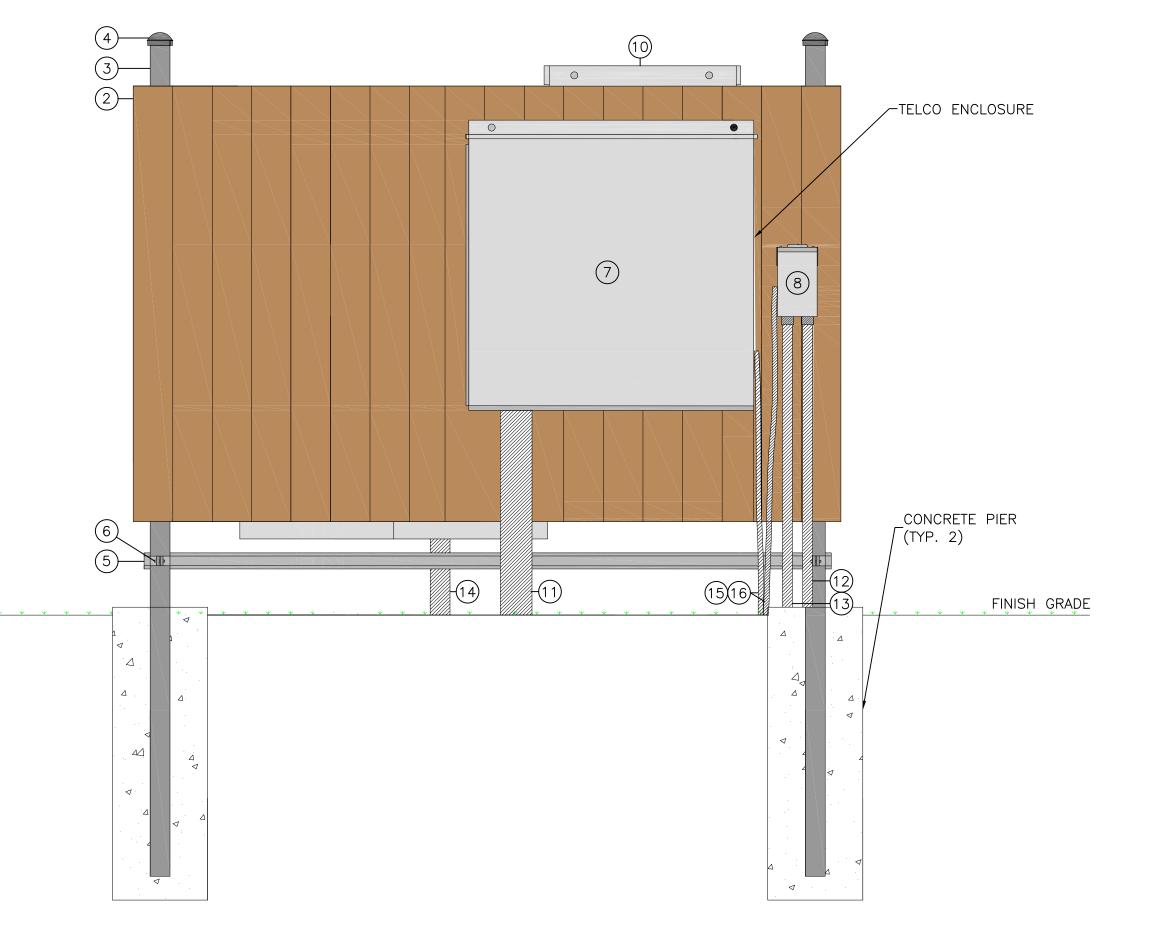
Classification: UNCLASSIFIED

Quality Category:

NON-Q

PRINCETON 424342 BDC:P/DRAFTING/BDC/USCC-119/USCC-119_ARC-1A-0



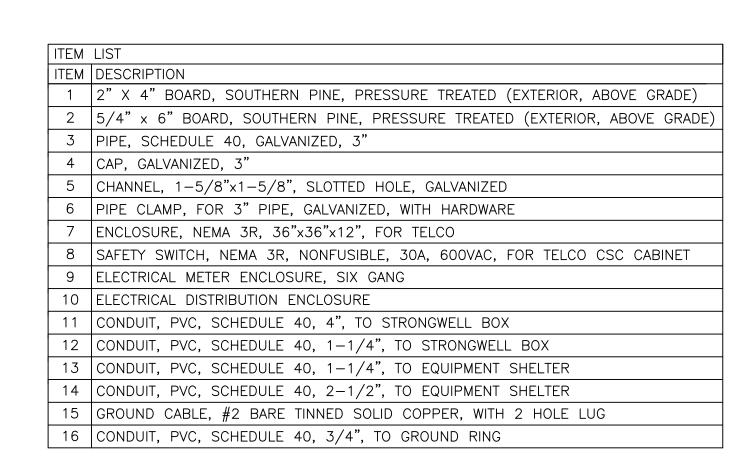


Classification: UNCLASSIFIED

Quality Category:

ELECTRICAL METER BOARD REAR ELEVATION

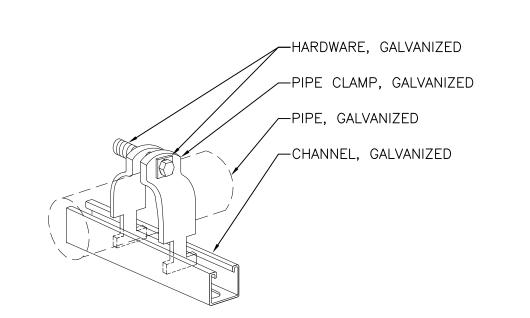
SCALE: NTS

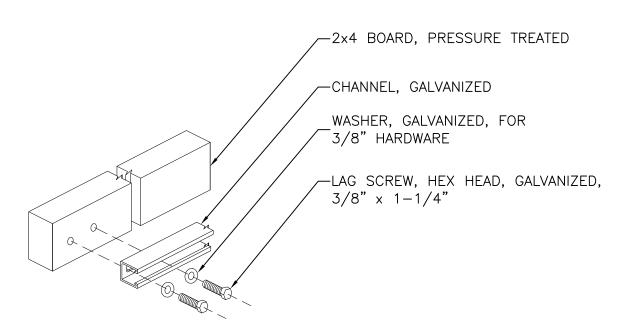


NOTES:

1. FOR BURIED LEDGE AT LESS THAN 3'-6", CORE LEDGE WITH 4-1/2" X 8" DEEP HOLES AND GROUT.

#3 REINFORCING STEEL WITH #3 TIES AT 6" O.C.

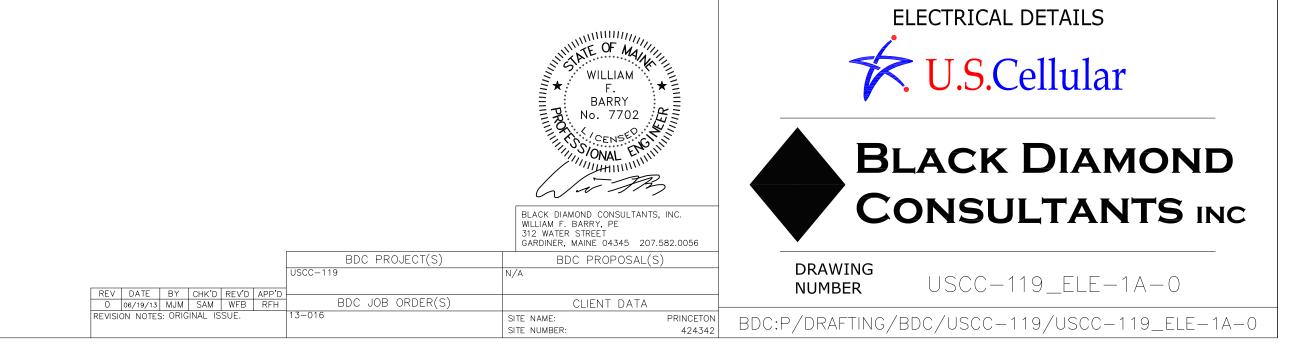


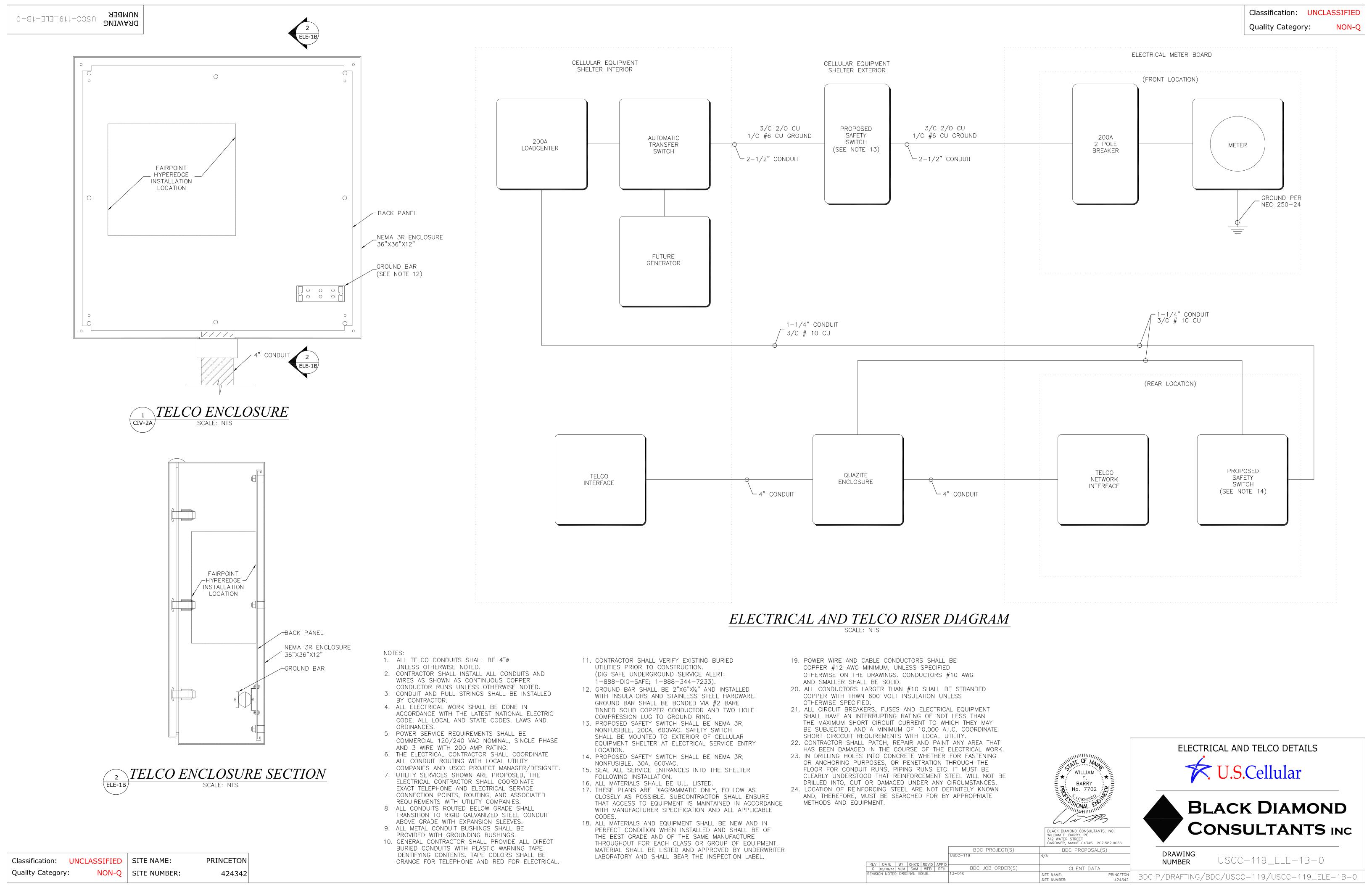


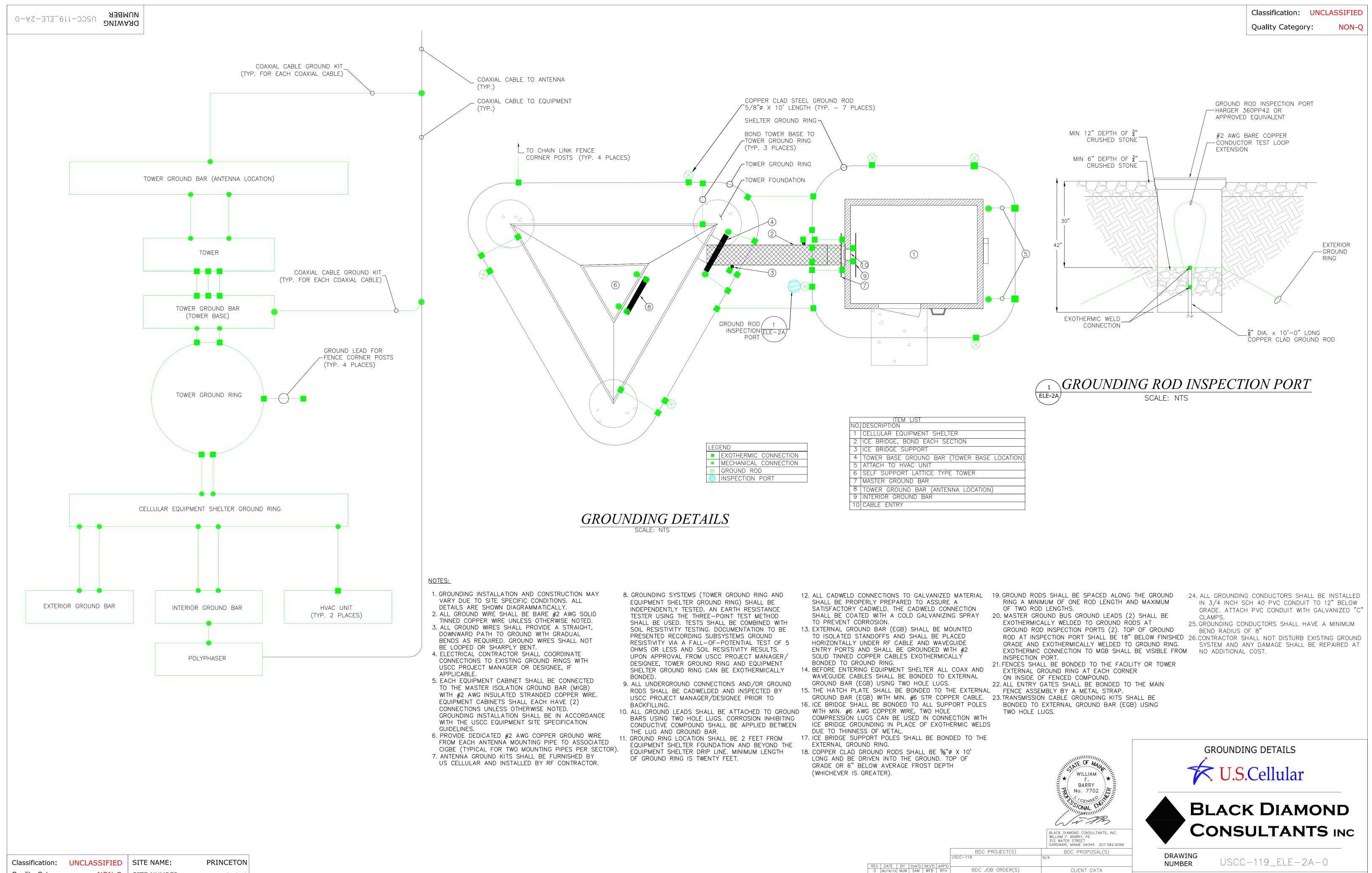
UNISTRUT AND GALVANIZED PIPE CONNECTION
PIPE CLAMP DETAIL

UNISTRUT AND 2X4 BOARD CONNECTION

Classification: UNCLASSIFIED SITE NAME: PRINCETON
Quality Category: NON-Q SITE NUMBER: 424342







Quality Category:

NON-Q | SITE NUMBER:

424342

PRINCETON BDC:P/DRAFTING/BDC/USCC-119/USCC-119_ELE-2A-0

SITE NUMBER:

TO PROTECT CONSTRUCTION SITE AREAS AND ADJACENT SENSITIVE LAND AND WATERS OF THE STATE, THE FOLLOWING EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND MAINTAINED. THESE MEASURES HAVE BEEN ESTABLISHED TO CONFORM TO STATE OF MAINE EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES (BMP)".

THIS EROSION/STABILIZATION PLAN IS A MINIMUM THAT THE CONTRACTOR MUST DO. GIVEN SITE AND WEATHER CONDITIONS, ADDITIONAL MEASURES MAY BE NEEDED.

SOIL DISTURBANCE: THE CONTRACTED SHALL LIMIT THE EXTENT OF SOIL EXPOSED DURING CONSTRUCTION TO THE MINIMUM POSSIBLE. EXPOSED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 15 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL AND WITHIN 7 DAYS OF FINAL GRADING.

ROAD DITCHES; INLET AND OUTLET PROTECTION FOR CULVERTS: EXPOSED AREAS FOR ROAD DITCHING SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL. INLET AND OUTLET PROTECTION FOR CULVERTS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS OF INSTALLING EACH CULVERT, FIELD INLET OR STORM DRAIN OUTFALL.

SILT FENCING AND/OR HAY BALES: INSTALL SILT FENCES AND/OR HAY BALES AROUND SITE EXPOSED AREAS AS SHOWN ON THE SITE PLAN AND FOR ANY ADDITIONAL ARFAS DETERMINED TO BE SUBJECT TO SEDIMENT EROSION AS A RESULT OF SITE CONDITIONS. SILT FENCING AND/OR HAY BALES WILL REMAIN IN PLACE UNTIL EXPOSED AREAS HAVE ACQUIRED STABILIZATION. INSTALL THE SILT FENCING AND.OR HAY BALES IN ACCORDANCE WITH DETAILS PROVIDED BY THE SITE PLAN.

STOCKPILING, HAUL ROADS, BORROW AREAS: THE CONTRACTOR SHALL VERIFY THAT STOCKPILING, HAUL ROAD, AND BORROW AREAS SHALL NOT BE LOCATED IN WETLANDS AND AREAS OF CONCENTRATED FLOWS. SILT FENCES, MULCHING, AND OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROVIDE SEDIMENTATION CONTROL TO THESE

DUST CONTROL: THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

SITE EROSION/STABILIZATION MAINTENANCE: THE CONTRACTOR SHALL INSPECT THE AREAS ROUTINELY AND ESPECIALLY AFTER RAIN EVENTS AND SHALL REPAIR THE SEDIMENTATION CONTROLS. AS NECESSARY. THE CONTRACTOR SHALL MAINTAIN THE TEMPORARY AND PERMANENT SITE EROSION AND STABILIZATION CONTROLS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE SHALL INCLUDE PROVIDING PROTECTION AGAINST SITE TRAFFIC AND REPAIRING DAMAGES TO CONTROLS RESULTING FROM RAIN, WIND, OR OTHER EVENTS. DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH SOIL CONDITIONS AND GRADES AND SHALL INCLUDE RE-ESTABLISHING THE TEMPORARY OR PERMANENT FERTILIZING, LIMING, SEEDING, MULCHING CONDITIONS OBTAINED PRIOR TO THE DAMAGES.

TEMPORARY MEASURES FOR EROSION CONTROL:

THESE TEMPORARY MEASURES WILL PROTECT THE AREA UNTIL IF THE CONSTRUCTION SITE IS NOT STABILIZED BY NOVEMBER MORE PERMANENT SITE STABILIZATION MEASURES ARE ESTABLISHED. THE FOLLOWING MEASURES SHALL BE USED FOR TEMPORARY SITE STABILIZATION. REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-1 AND A-2 FOR ADDITIONAL INFORMATION ON TEMPORARY MEASURES FOR EROSION CONTROL.

TEMPORARY SEEDING: GRADE AND PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-10-10 FERTILIZER AT THE RATE OF 13.8#/1000FT2, APPLY LIMESTONE AT THE RATE OF 138#/1000FT2, APPLY WINTER RYE AT THE RATE OF 21/2 #/1000FT2. NOTE - SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING, APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

TEMPORARY MULCHING: APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT2 TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

PERMANENT MEASURES FOR EROSION CONTROL:

FOR DISTURBED AREAS WITH SLOPES GREATER THAN 2:1. EROSION CONTROLS AND AREA STABILIZATION SHALL BE PROVIDED AS SHOWN BY THE SITE PLAN.

PERMANENT SEEDING: PROVIDE PERMANENT SEEDING AS EACH CONSTRUCTION AREA IS BROUGHT TO FINISH GRADE. PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-20-20 FERTILIZER AT THE RATE OF 18.4#/1000FT2, APPLY LIMESTONE AT THE RATE OF 138#/1000FT2, APPLY A MIXTURE OF KENTUCKY BLUEGRASS (45%), CREEPING RED FESCUE (45%), AND PERENNIAL RYEGRASS (10%) AT THE RATE OF 1#/1000FT2. NOTE - SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING. APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

TEMPORARY MULCHING: APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT2 TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

OVER-WINTER CONSTRUCTION AND STABILIZATION

15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF CONSTRUCTION IS CONDUCTED DURING THE WINTER CONSTRUCTION PERIOD, LIMIT CONSTRUCTION EXPOSED AREAS TO ONLY THOSE AREAS REQUIRED FOR TELECOMMUNICATIONS FACILITY INSTALLATION, SUCH AS, ACCESS GRAVEL ROAD CONSTRUCTION, INSTALLATION OF UTILITIES, AND INSTALLATION OF TOWER, SHELTER AND EQUIPMENT. FINAL SITE GRADING, PERMANENT MEASURES FOR EROSION CONTROL, CONSTRUCTION AND STABILIZATION OF DITCHES AND CHANNELS SHALL BE PROVIDED AFTER WINTER CONSTRUCTION PERIOD. REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-3 FOR ADDITIONAL INFORMATION ON OVER-WINTER CONSTRUCTION AND STABILIZATION.

SEDIMENT BARRIERS: DURING FROZEN CONDITION, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS IF FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES.

MULCHING: HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE THAT IS TWICE THE NORMAL NON-WINTER PERIOD ACCEPTED RATE AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX, IF USED, MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. ANY SNOW WILL BE REMOVED DOWN TO ONE INCH DEPTH OR LESS PRIOR TO MULCHING APPLICATION. STOCKPILES OF SOIL WILL BE SIMILARLY MULCHED.

OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS: ALL DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15.

CONSTRUCTION SCHEDULE

(IN FOLLOWING SEQUENCE, COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES, MAINTAIN CONTINUOUSLY)

- 2. INSTALL SILT FENCE, PROJECT WIDE. . REMOVE AND STOCKPILE LOAM, PLACE SILT FENCE AT TOE.
- 5. INSTALL DRAINAGE SYSTEM IMPROVEMENTS 6. INSTALL DRAINAGE SYSTEM EROSION CONTROL MEASURES. 7. PROVIDE PRIMARY SLOPE STABILIZATION AND MULCHING OR
- TEMPORARY SEEDING. 8. FINAL SITE GRADING, PERMANENT SLOPE PROTECTION,
- PERMANENT SEEDING. 9. AFTER SITE IS STABILIZED AND COMPLETE, REMOVE TEMPORARY EROSION CONTROL MEASURES.

4. SITE BLASTING AND PRIMARY EARTHWORK.

PIPE INLET PROTECTION

INLET PROTECTION, (RIPRAP D50=6") SHALL EXTEND AT LEAST ONE PIPE DIAMETER BEYOND THE CONDUIT. RIPRAP SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF MAINE "BMP". RIPRAP PROTECTION SHALL BE UNDERLAIN WITH MIRAFI 600X GEOTEXTILE FABRIC TO PREVENT PIPING THROUGH THE BACKFILL MATERIAL.

GENERAL NOTES:

AGGREGATE FOR GRAVEL BASE:

AGGREGATE FOR GRAVEL BASE SHALL BE SCREENED OR CRUSHED LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVE			
	TYPE A AGGREGATE	TYPE D AGGREGATE		
½ INCH	45-70			
1/4 INCH	30-55	25-70		
No. 40	0-20	0-30		
No. 200	0-5	0-5		

TYPE "A" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE "D" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYOUT OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION. AGGREGATE BASE AND SUB-BASE COURSES MAY BE PLACED UPON FROZEN SURFACES WHEN SUCH SURFACES HAVE BEEN

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING

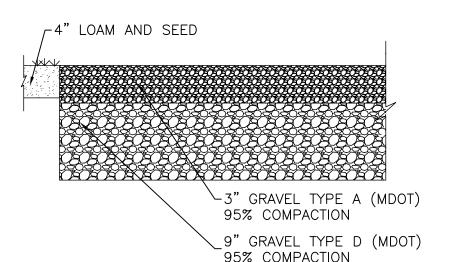
AGGREGATE FOR SUB-BASE:

COMMON BORROW:

COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

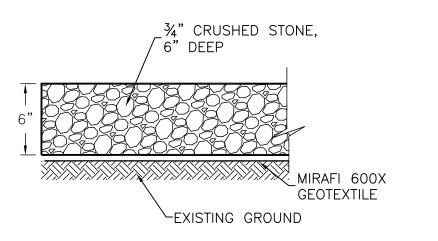
GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM.

> ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAX. DRY DENSITY AS DETERMINED BY ASTM D-1557



"MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.

³ PARKING AREA DETAIL SCALE: NTS ∖CIV-1A ⁄



4 COMPOUND CRUSHED STONE SECTION SCALE: NTS

BINDINGS ORIENTED HORIZONTALLY FLOW COMPACT SOIL

Classification: UNCLASSIFIED

NON-Q

Ouality Category:

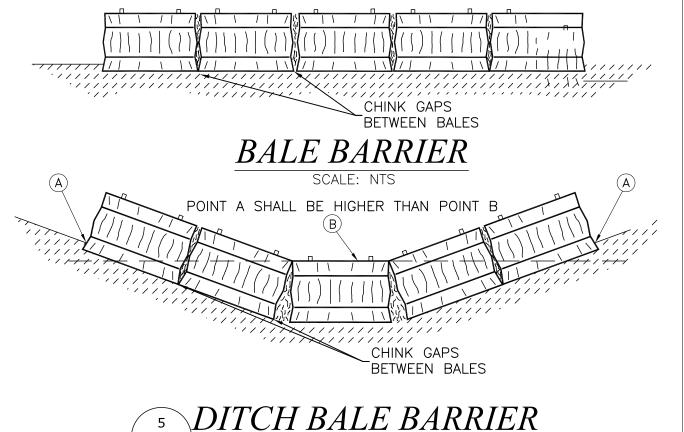
-THE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. -CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED

BALES, END RUNS AND UNDERCUTTING BENEATH BALES. -NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT SHALL BE ACCOMPLISHED PROMPTLY.

-SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. THEY MUST BE REMOVED WHEN THE BARRIER IS REMOVED.

- BALES ARE HAY OR STRAW, DIMENSIONS: 14" X 18" X 30", WIRE OR NYLON, PLACED IN DRAINAGE AREAS, UPON THE CONTOUR OF THE GROUND. BALES ARE TO BE PLACED IN A ROW, WITH ENDS TIGHTLY SET AGAINST THE ADJACENT BALE.

- EACH BALE IS TO BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND ANCHORED IN PLACE BY STAKES DRIVEN THROUGH THE BALES INTO THE GROUND AT LEAST 18". THE STAKES ARE TO BE DRIVEN IN SUCH A MANNER AS TO FORCE THE ENDS OF THE BALES TOGETHER. STAKES MAY BE REBAR STEEL PICKETS, 2" X 2" SOFTWOOD, OR 1" X 1" HARDWOOD.



SCALE: NTS

12'-0" WIDE GRAVEL ROAD 6'-0" 6'-0" 4" LOAM 4"LOAM SEED AND MULCH SEED AND MULCH SLOPE ½"/FOOT SLOPE ½"/FOOT 6" GRAVEL TYPE A (MDOT) 95% COMPACTION MIN. 12" GRAVEL TYPE D (MDOT) *TYPICAL ROAD SECTION* BASE COURSE. 95% COMPACTION MIN. \CIV-1A

> JAMES HEBERT NO. 5233 1/5/ONAL + BLACK DIAMOND CONSULTANTS, INC. JAMES R. HEBERT, PE 312 WATER STREET GARDINER, MAINE 04345 207.582.0056 BDC PROJECT(S BDC PROPOSAL(S)

> > SITE NUMBER:

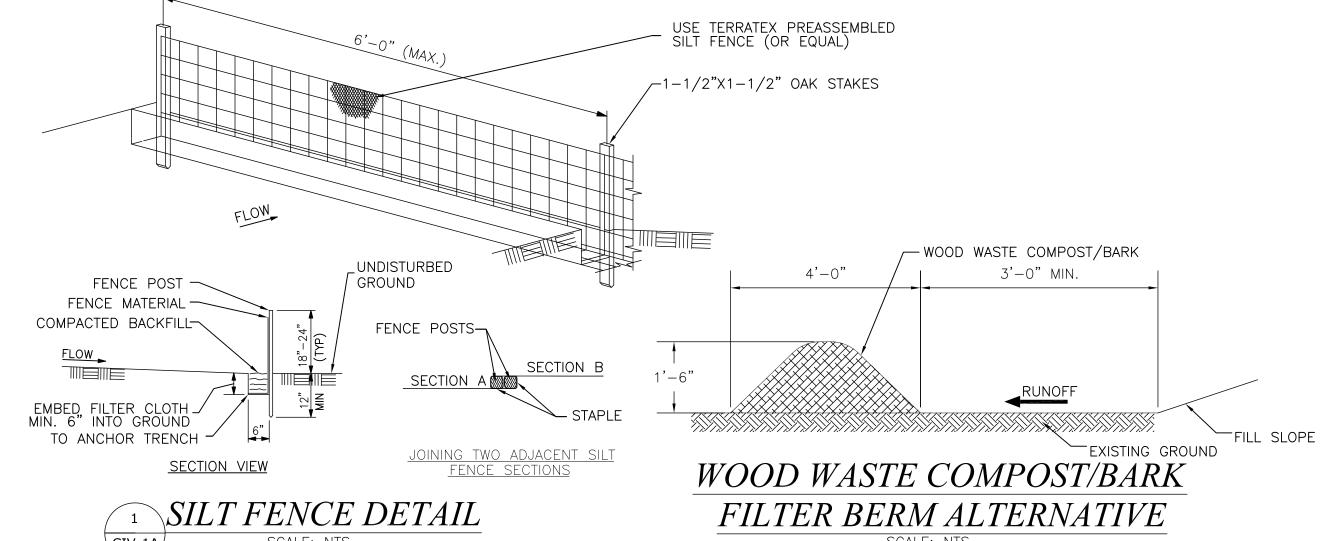
BDC JOB ORDER(S

ENVIRONMENTAL AND CIVIL DETAILS U.S.Cellular **BLACK DIAMOND**

CONSULTANTS INC

DRAWING NUMBER

USCC-119_ENV-1A-0 CLIENT DATA HINCLION | BDC:P/DRAFTING/BDC/USCC-119/USCC-119_ENV-1A-0



\CIV-1A 1. SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED

2. SHOULD THE FABRIC ON A SILT FENCE OF FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE

4. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA

HAS BEEN PERMANENTLY STABILIZED.

EXISTING GRADE, PREPARED AND SEEDED.

Classification: UNCLASSIFIED Quality Category:

SITE NAME: | SITE NUMBER:

PRINCETON 424342

WOOD WASTE COMPOST/BARK FILTER BERMS NOTES THE FILTER BERM SHALL CONSIST OF A WOOD WASTE COMPOST/BARK MULCH MIX OR RECYCLED COMPOSTED BARK FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLED SYSTEMS. COMPOSTED MIXES CAN BE USED UPON APPROVAL OF THE OFFICE OF ENVIRONMENTAL SERVICES LANDSCAPE UNIT.

THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. MOISTURE CONTENT - 30-60%

B. pH -5.0-8.0C. SCREEN SIZE - 100% LESS THAN 3", MAXIMUM 70% LESS THAN 1".

D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION

E. NO STONES LARGER THAN 2" IN DIAMETER

THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.

WOOD WASTE COMPOST/BARK FILTER BERMS MAY BE USED IN COMBINATION WITH SILT FENCE TO IMPROVE SEDIMENT REMOVAL AND PERVENT CLOGGING OF THE WOOD WASTE COMPOST/BARK BERM BY LARGER SEDIMENT PARTICLES. (SILT FENCE PLACED TO FILTER RUNOFF BEFORE WOOD WASTE COMPOST/BARK).

PROPERLY CONSTRUCTED. I. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.

COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYED. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE % INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

AGGREGATE FOR SUB-BASE SHALL BE TYPE "D" (MDOT). IT SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.