



A&D Klumb Environmental, LLC

**NEPA THRESHOLD SCREENING
PROPOSED TELECOMMUNICATIONS FACILITY
RAYMOND, ME
SITE 853462
19 FARM ROAD
RAYMOND, ME 04071**

January 26, 2010

Prepared for:
KJK Wireless
127 Ridge Road
Nashua, NH 03062

Prepared by:
A&D Klumb Environmental, LLC
34 Centennial Drive
Webster, NH 03303
(603) 746-5065
www.klumbenv.com

This report describes the National Environmental Policy Act (NEPA) Threshold Screening performed by A&D Klumb Environmental, LLC (ADKE) for the proposed Raymond, ME communication facility to be located at 19 Farm Road in Raymond, ME. The purpose of the Threshold Screening was to identify potential issues that would trigger a NEPA submission. See Area Maps in Appendix A.

The 10,000 Square Foot leased property consists of a 75 foot x75 foot fenced compound containing a proposed 125 foot monopole tower with equipment shelters and an access drive to the compound. See Project Drawings in Appendix B

ADKE gathered information regarding the property from the following sources: a site walk and viewshed survey performed on May 13, 2009, and May 21, 2009, a government records database search, and correspondence with federal and state agencies.

Specific site impact categories reviewed included natural areas, wildlife preserves, sanctuaries and refuges, endangered species, historical and archaeological sites, Indian Religious Sites, flood plains, and wetlands. These items were reviewed in accordance with guidelines set forth by 47 C.F.R 1.1307.

ADKE contacted U.S. Department of the Interior Fish and Wildlife Service, Maine Inland Fisheries and Wildlife, and Maine Natural Areas Program for review of listed threatened or endangered species, and proposed or designated critical habitats. ADKE's request letters and any responses from the above agencies are provided in Appendix C.

The Maine Department of Conservation Natural Areas Program reported no species with rare botanical features within the project area, but did list 18 species within a 4-mile radius of the project site with rare or exemplary botanical features. US Fish and Wildlife provided that there are no federally threatened or endangered species within the project site area. The Maine Department of Inland Fisheries and Wildlife did not respond to our written correspondence. All response letters are included in Appendix C.

The telecommunications tower is not within the viewshed of a National Scenic Trail, is not located in a National Wildlife Preserve, is not within a designated Wilderness Area or a Designated Wildlife Preserve, and is not in the visual APE of a National Wildlife Refuge. According to the government records the project site falls within a Natural Area, but there is no information available on the area. See the EDR NEPA Check Report in Appendix E.

Two database searches determined that there are no National Registered Historic Places listed structures within the FCC recommended ½ mile of the proposed tower center. In a letter to A&D Klumb Environmental, LLC dated January 20, 2010 from the Maine Historic Preservation Commission agreed with ADKE's findings and wrote that they *"concur with your finding that there are no historic properties affected within the project's area of potential effects."*

The government records database search did not identify archaeological areas or Indian Religious Sites within 1-mile of the site. ADKE hired Brian Valimont, Principal



Investigator for New England Archaeology Company, LLC. In his report he stated that *“There appears to be low archaeological site potential for both prehistoric and historic archaeological resources within the project area. During walkover field inspection in July 2009, no Native American or historic cultural artifacts or features were encountered within or adjacent to the project area. An individual burial site of early historic settler Thomas Crisp has been preliminarily identified near the project area. The location of the burial site was identified by town historian Ernest Knight and appears to be credible. The burial site will not be impacted by the proposed Raymond cell tower construction. This archaeological assessment indicates that no archaeological resources will be impacted by the proposed construction of the Raymond cell tower facilities.”* See Appendix D for the full Archaeology Report.

The nearest wetlands are located on the property approximately 100+/- feet from the Tower site. These wetlands are Palustrine, Forested/Scrub-shrub, Broad-Leaved Deciduous, Seasonally Flooded Saturated wetlands (PFO/SS1E). This wetland was delineated by A&D Klumb Environmental, LLC shown on the Project Drawings in Appendix B.

This site is located outside the 500-year flood zone and is shown on the EDR NEPA Check Report in Appendix E.

Research into the impact of High Intensity White Lights was not performed because the project is not proposed to utilize such devices.

The EDR NEPA Check database report is provided in Appendix C.

This study has not revealed potential issues that would trigger a NEPA submission. The NEPA Threshold Screening Checklist is attached.

The observations in this NEPA Threshold Screening report are valid on the date of the Site reconnaissance and made under the limitations and conditions noted herein.

This NEPA Threshold Screening was prepared for the sole and exclusive use of KJK Wireless and U.S. Cellular Corporation, and is not intended to be nor shall be relied upon by any other individual or party without the express written authorization of ADKE.



Audra Klumb, CWS #222
President



REFERENCES

Environmental Data Resources, Inc., NEPACheck Report 8/25/09

Maine Natural Areas Program website:

<http://www.maine.gov/doc/nrimc/mnap/focusarea/map.htm>

As shown on attached Google Earth Map 1/26/10

Maine Department of Inland Fish and Wildlife Website:

<http://megisims.state.me.us/website/mdifweh/viewer.htm>

As shown on attached Google Earth Map. 1/26/10

Locus Map - 1990 USGS Raymond, ME Quadrangle, Topographical Map



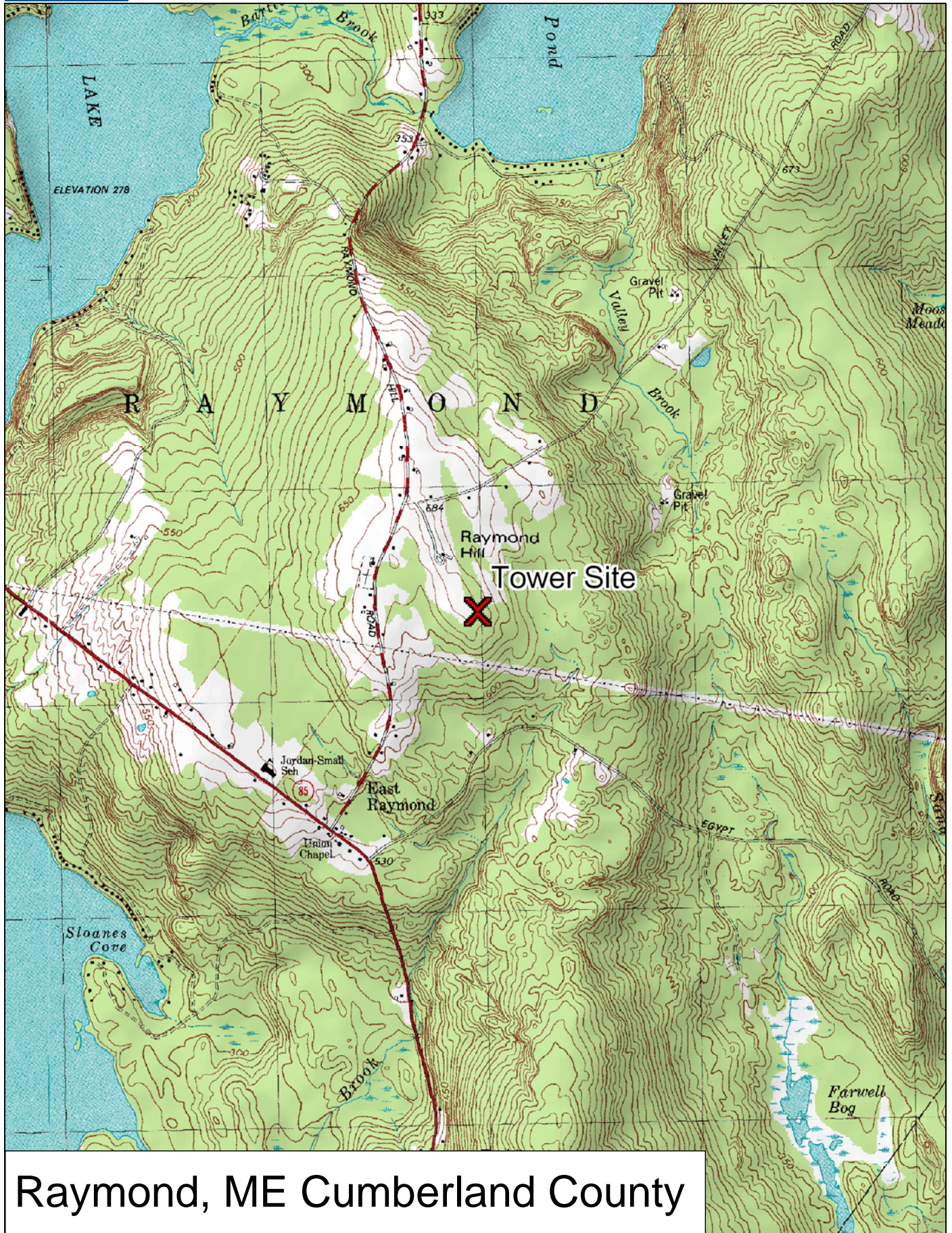
**Proposed 125-Foot Telecommunications Tower
Raymond Site – Raymond, ME
PRELIMINARY FINDINGS
NEPA THRESHOLD SCREENING CHECKLIST**

47 CFR 1.1307 Site Impact Categories	Site Development Impacts Anticipated	
	Yes	No
Is the proposed Tower located in an officially designated wilderness area?		✓
Is the proposed Tower located in an officially designated wildlife preserve?		✓
Will the Tower affect listed threatened or endangered species or designated critical habitats?		✓
Will the Tower affect National Register of Historical Places (NRHP)-listed structures or areas, or will it affect NRHP-eligible structures or areas?		✓
Will the Tower affect Indian Religious Sites?		✓
Will the Tower be located in a Flood Plain?		✓
Will the construction of the facility involve a significant change in surface features (e.g. wetland fill, deforestation, or water diversion)?		✓
Will High Intensity White Lights affect the area surrounding the Tower?		✓



APPENDIX A
AREA MAPS



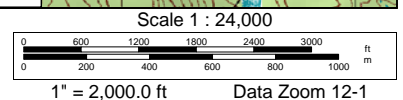
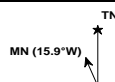


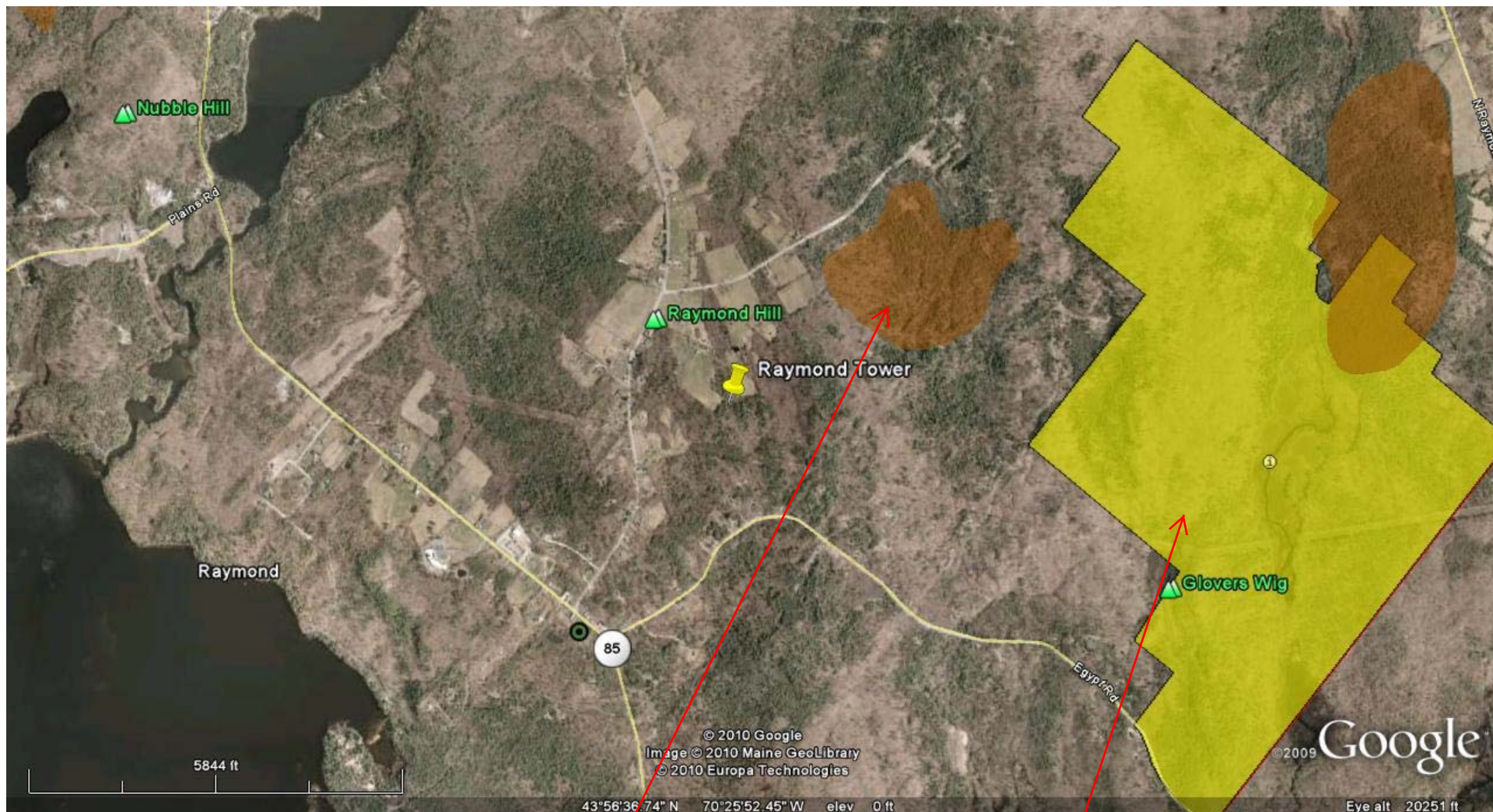
Raymond, ME Cumberland County

Data use subject to license.

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www.delorme.com



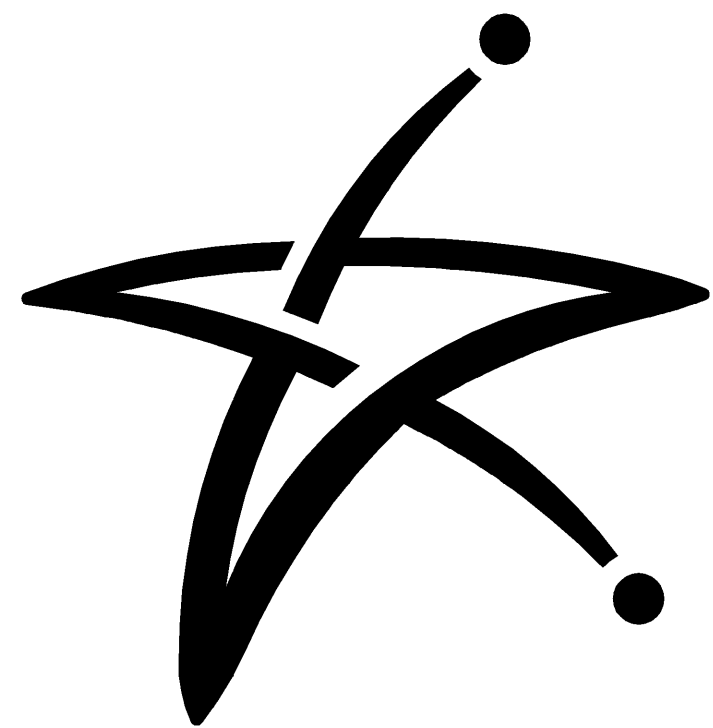


Deer Wintering Area

Maine Department of Inland Fisheries and Wildlife
Conservation Area - Morgan's Meadow

APPENDIX B
PROJECT DRAWINGS





U S Cellular

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SITE NAME: RAYMOND (RAYMOND, ME)
SITE NO. 853462
LATITUDE: 43° 56' 37.66"
LONGITUDE: 70° 25' 57.86"

SITE NUMBER: 853462

SITE NAME: RAYMOND

TOWER TYPE: 125' MONOPOLE TOWER (PROPOSED)

SITE ADDRESS: 19 FARM ROAD
RAYMOND, ME 04071

PROPERTY OWNER: MICHAEL J. & MARY JEAN MAJOR

19 FARM ROAD
RAYMOND, ME 04071
(207) 655-7034

MAP & LOT: 13/51

APPLICANT: U.S. CELLULAR

c/o KJK WIRELESS

8 PROVIDENCE AVENUE

FALMOUTH, ME 04105
(207) 899-8544

POWER COMPANY: CENTRAL MAINE POWER CO.

1-800-565-3182

TELCO COMPANY: VERIZON

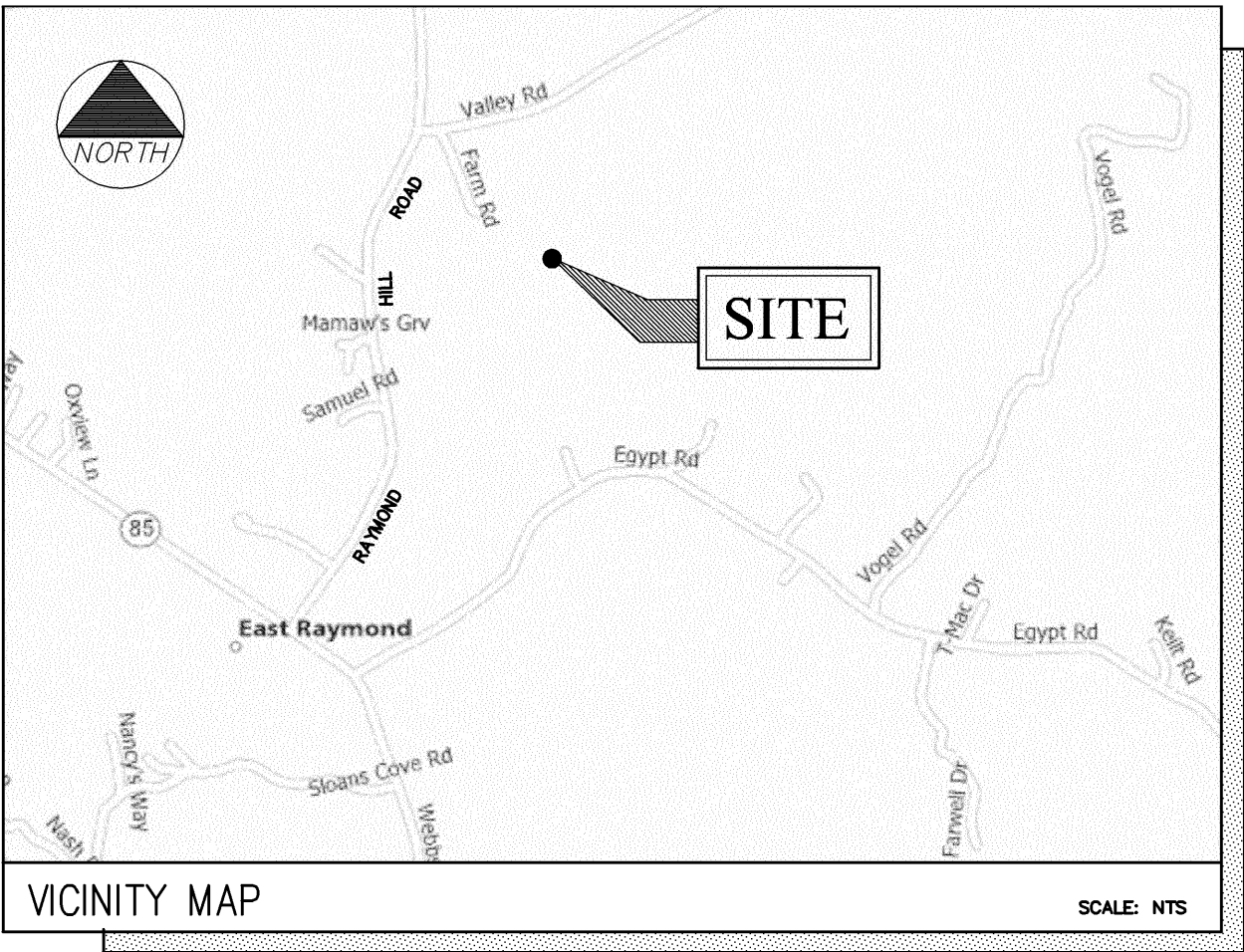
(207)-990-5280

CEO OF MUNICIPALITY: WILL COOK

401 WEBBER MILLS ROAD

RAYMOND, ME 04071

PROJECT SUMMARY



DIRECTIONS (START AT 100 GANNETT DRIVE, SOUTH PORTLAND, MAINE)
TURN RIGHT ONTO CUMMINGS ROAD AND PROCEED .25 MILES TO SPRING STREET. PROCEED .7 MILES TO PAYNE ROAD. TURN LEFT ONTO PAYNE ROAD AND PROCEED .6 MILES TO I-95/MAINE TURNPIKE RAMP. TAKE RAMP AND PROCEED 17.9 ON I-95N/GOLD STAR MEMORIAL HIGHWAY/MAINE TURNPIKE TOWARDS LEWISTON/AUGUSTA. TAKE EXIT 63 US-202/ME-115/ME-4 TOWARD ME-26/GRAY/NEW GLOUCESTER. TURN SLIGHT RIGHT ONTO W GRAY ROAD/US-202/ME-15/ME-26/ME-4. CONTINUE TO FOLLOW SHAKER ROAD/ME-26. PROCEED 2.6 MILES AND TURN LEFT ONTO N RAYMOND ROAD. PROCEED 1.0 MILES TO EGYPT ROAD. TURN LEFT ONTO EGYPT AND PROCEED 4.0 MILES TO WEBBER MILLS ROAD/ME85. TURN RIGHT ONTO WEBBER MILLS ROAD AND PROCEED .1 MILES TO RAYMOND HILL ROAD. TURN RIGHT ONTO RAYMOND HILL ROAD AND PROCEED 1.0 MILES TO VALLEY ROAD. PROCEED .1 MILES ON VALLEY ROAD TO TOWER ENTRANCE LOCATED ON THE RIGHT.

SHEET NO.	DESCRIPTION	DATE	REV. NO.
T-1	TITLE SHEET	XX/XX/XX	0
C-1	PLOT PLAN	XX/XX/XX	0
C-1A	ACCESS, UTILITY EASEMENT AND LEASE AREA PLAN	XX/XX/XX	0
C-2	SITE PLAN	XX/XX/XX	0
C-3	SITE PLAN	XX/XX/XX	0
C-4	SITE PLAN	XX/XX/XX	0
C-5	ANTENNA PLAN & ELEVATION	XX/XX/XX	0
D-1	SHELTER ELEVATION	XX/XX/XX	0
D-2	SECTIONS AND DETAILS	XX/XX/XX	0
G-1	GENERAL NOTES	XX/XX/XX	0

SHEET INDEX

BUILDING REQUIREMENTS:

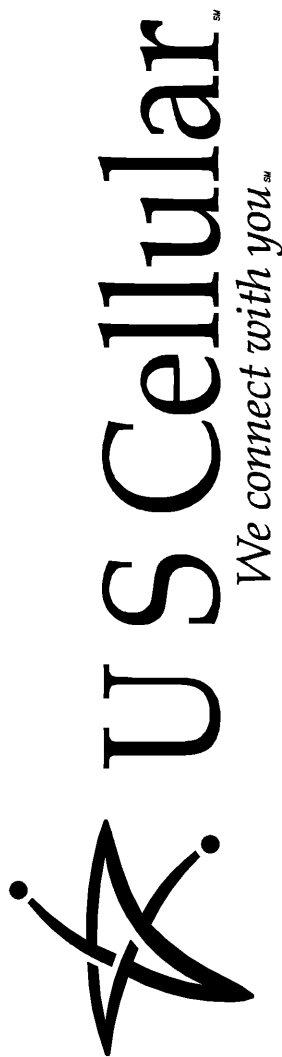
BUILDING IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

PLUMBING REQUIREMENTS:

FACILITY HAS NO PLUMBING.



THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



100 Gannett Drive, Suite B, South Portland, ME 04106

R.F. _____

SA/ZN _____

CONST. _____

N.O.M. _____

P.M. _____



OEST PROJ. NO: 413.86.01

SITE NAME: RAYMOND

SITE NUMBER: 853462

ADDRESS: 19 FARM ROAD
RAYMOND, ME 04071

DRAWING TITLE: TITLE SHEET

REVISIONS

NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	XX/XX/XX

DESIGNED BY: MSD

DATE: XX/XX/XX

DRAWN BY: CBM

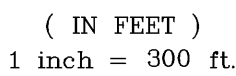
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CHECKED BY: MSD









PROJECT NO.: 413.86.01

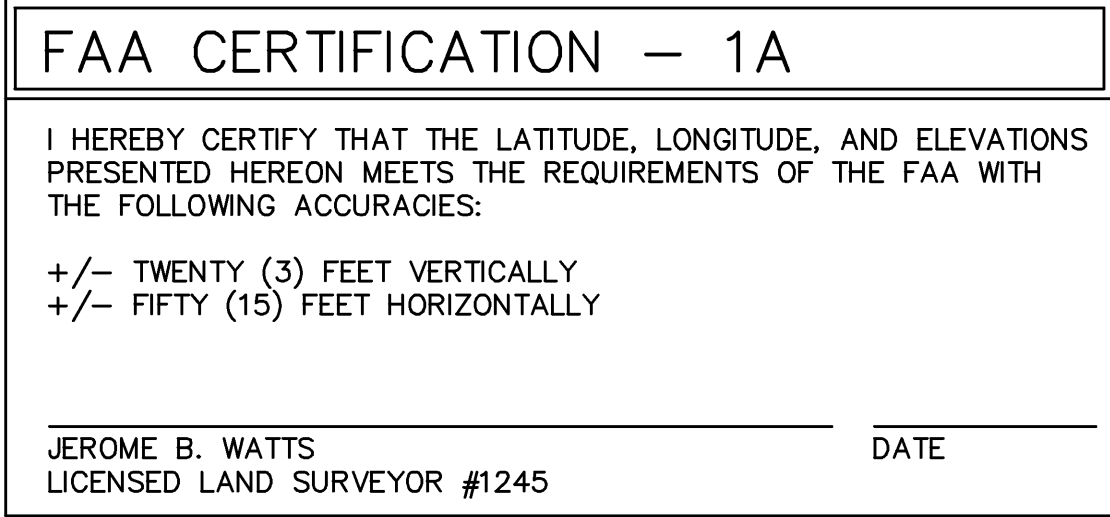
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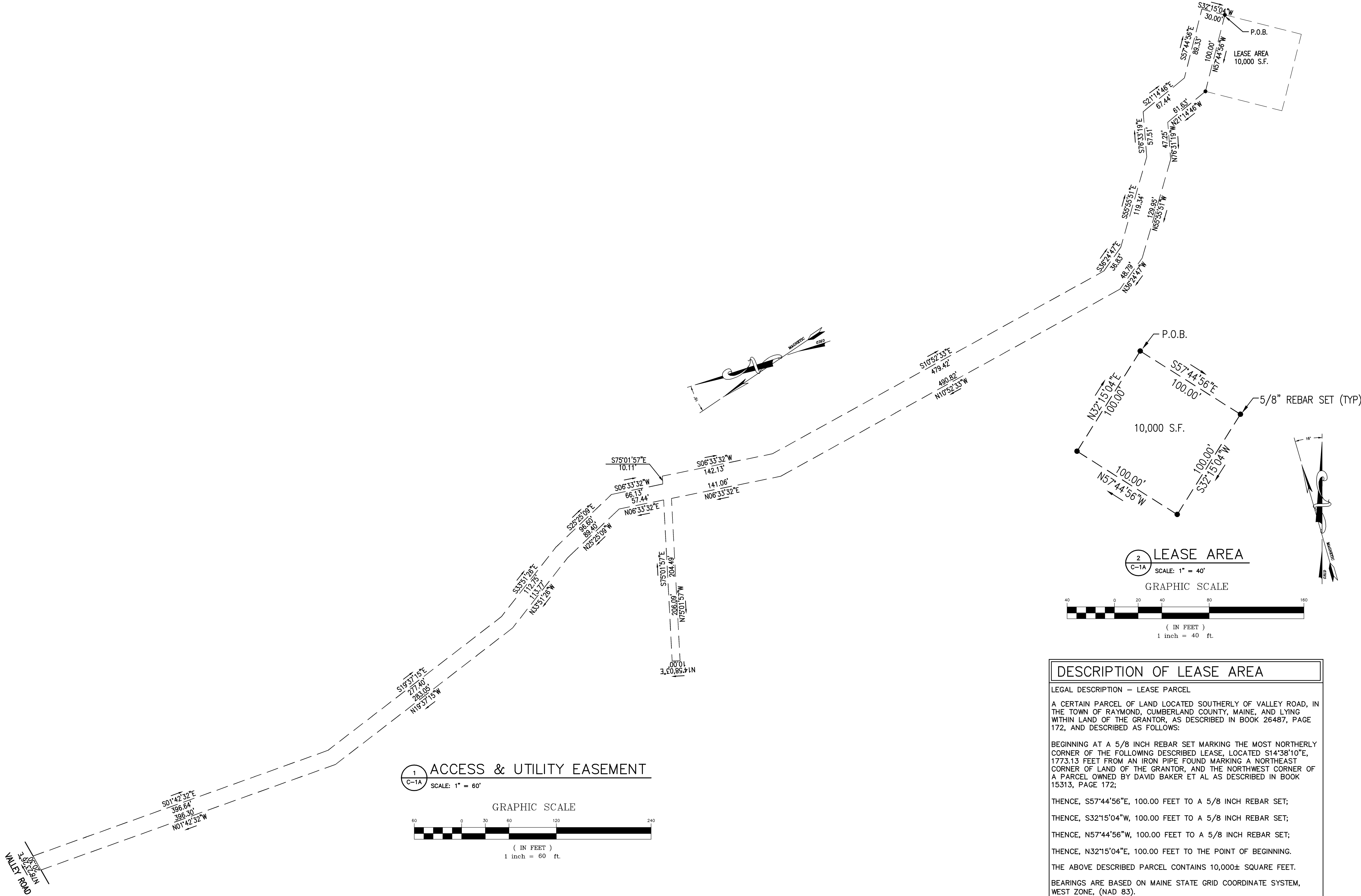
T-1



EQUIPMENT INSTALLATION SHALL MEET ALL LOCAL, STATE
AND FEDERAL REQUIREMENTS FOR EQUIPMENT EMISSIONS

LEGEND	
	PROPERTY LINE
	ABUTTING PROPERTY LINE
	IRON PIN FOUND (AS NOTED)
	MONUMENT (AS NOTED)
	UTILITY POLE
	STONE WALL
	EXISTING TREE LINE
	EXISTING OVERHEAD ELECTRIC & TELEPHONE

C-1



DESCRIPTION OF LEASE AREA

LEGAL DESCRIPTION — LEASE PARCEL

A CERTAIN PARCEL OF LAND LOCATED SOUTHERLY OF VALLEY ROAD, IN THE TOWN OF RAYMOND, CUMBERLAND COUNTY, MAINE, AND LYING WITHIN LAND OF THE GRANTOR, AS DESCRIBED IN BOOK 26487, PAGE 172, AND DESCRIBED AS FOLLOWS:

BEGINNING AT A 5/8 INCH REBAR SET MARKING THE MOST NORTHERLY CORNER OF THE FOLLOWING DESCRIBED LEASE, LOCATED S14°38'10"E, 1773.13 FEET FROM AN IRON PIPE FOUND MARKING A NORTHEAST CORNER OF LAND OF THE GRANTOR, AND THE NORTHWEST CORNER OF A PARCEL OWNED BY DAVID BAKER ET AL AS DESCRIBED IN BOOK 15313, PAGE 172;

THENCE, S57°44'56"E, 100.00 FEET TO A 5/8 INCH REBAR SET;

THENCE, S32°15'04"W, 100.00 FEET TO A 5/8 INCH REBAR SET;

THENCE, N57°44'56"W, 100.00 FEET TO A 5/8 INCH REBAR SET;

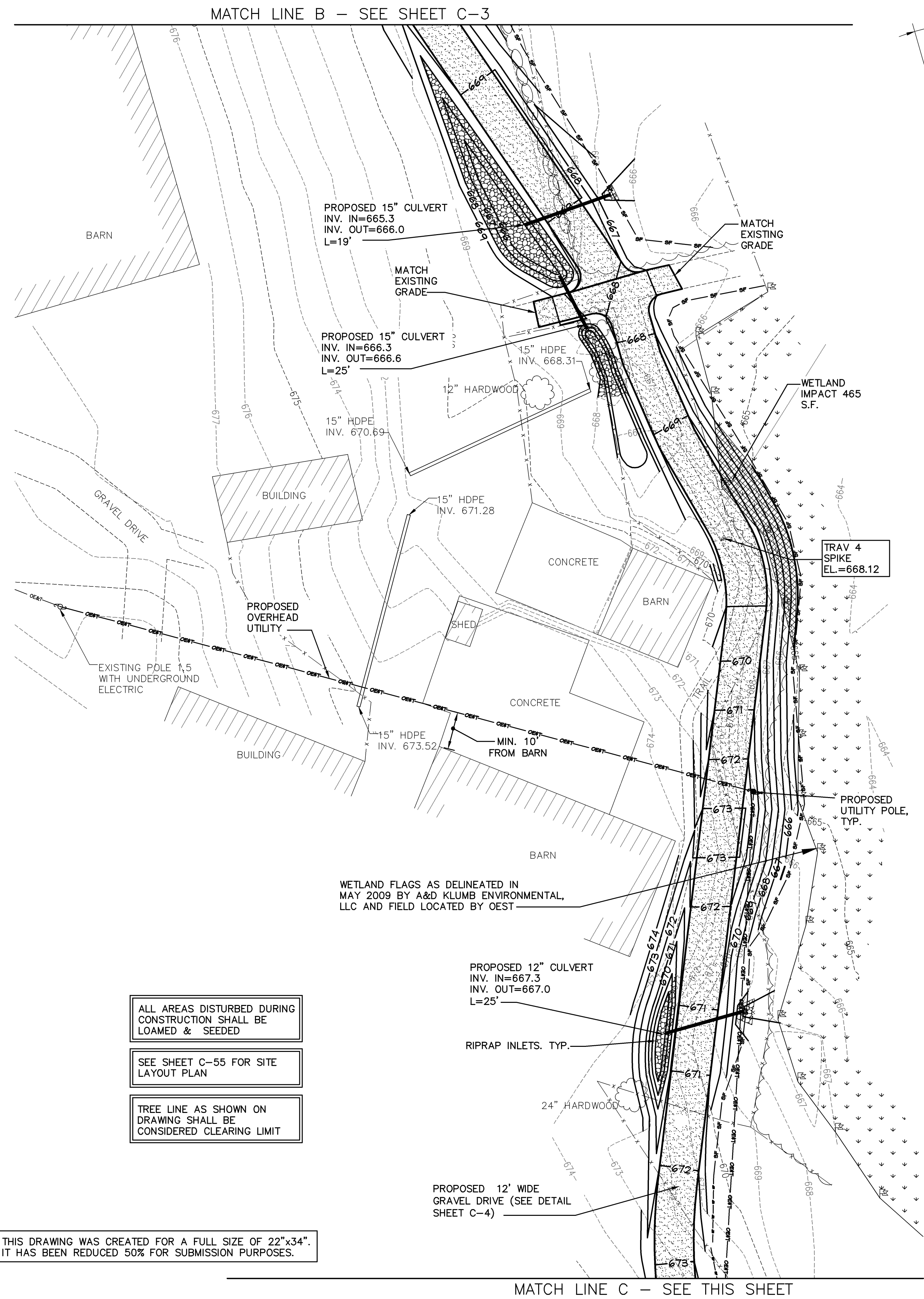
THENCE, N32°15'04"E, 100.00 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL CONTAINS 10,000± SQUARE FEET.

BEARINGS ARE BASED ON MAINE STATE GRID COORDINATE SYSTEM, WEST ZONE, (NAD 83).

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	X/XX/XX

DESIGNED BY: JBW	DATE: XX/XX/XX
DRAWN BY: CBM	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO.: 413.86.01
DRAWING NO.:	

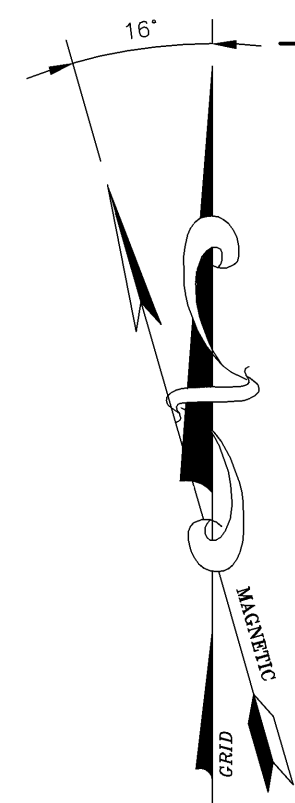


ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED & SEEDDED

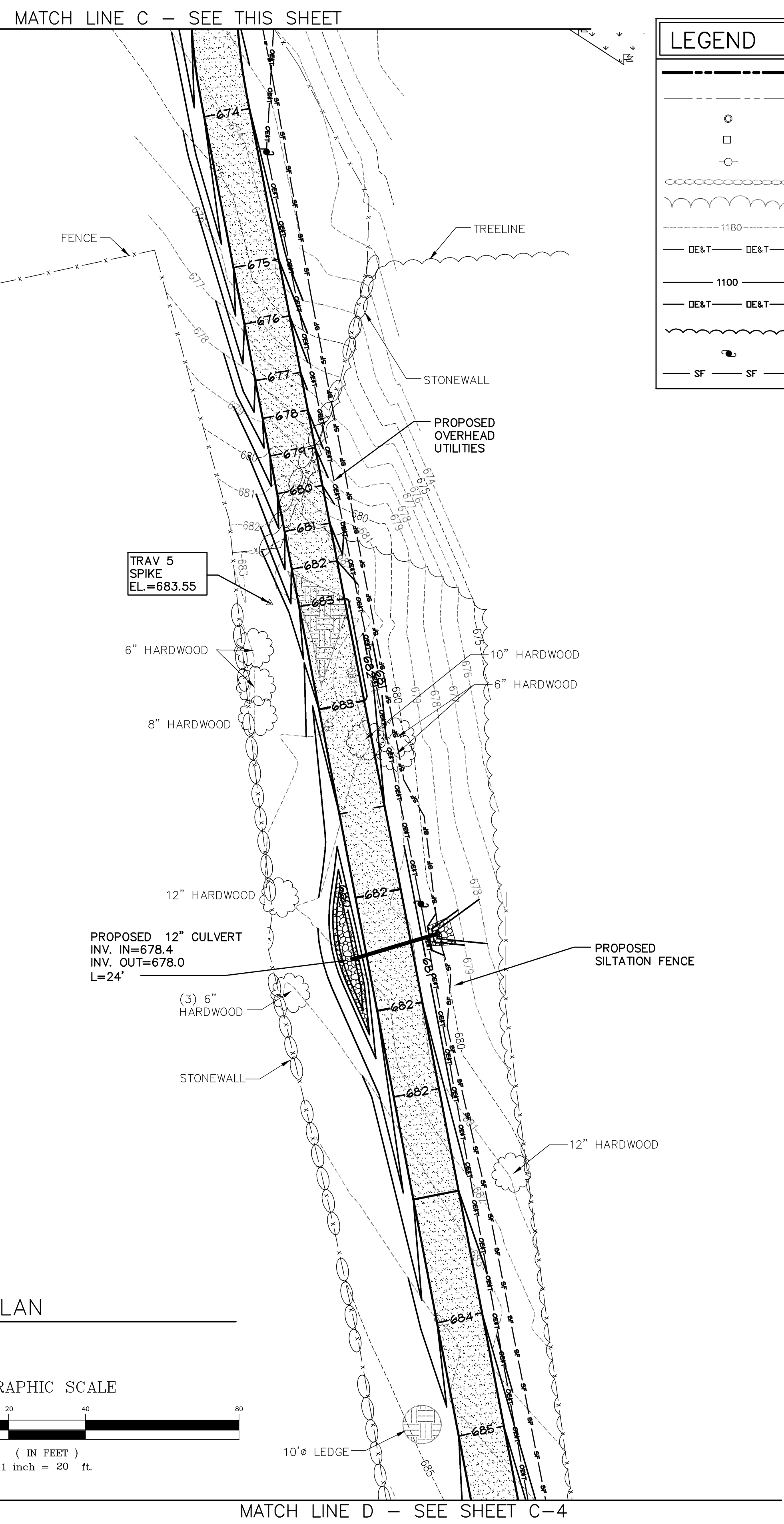
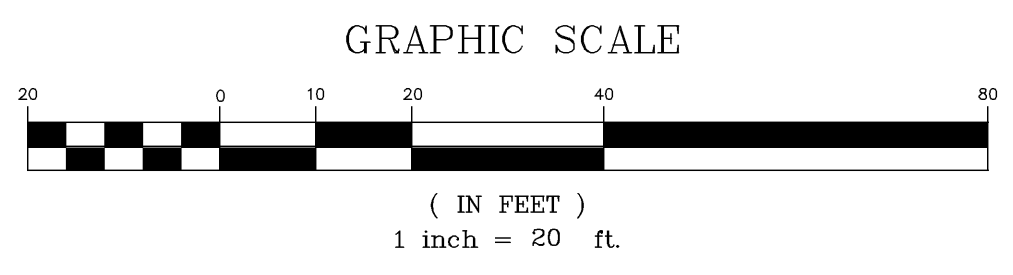
SEE SHEET C-55 FOR SITE LAYOUT PLAN

TREE LINE AS SHOWN ON DRAWING SHALL BE CONSIDERED CLEARING LIMIT

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



1 SITE PLAN
C-3 SCALE: 1"=20'



LEGEND	
---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
○	IRON PIN FOUND (AS NOTED)
□	MONUMENT (AS NOTED)
○	UTILITY POLE
---	STONE WALL
---	EXISTING TREE LINE
---	EXISTING CONTOUR
---	EXISTING OVERHEAD ELECTRIC & TELEPHONE
---	PROPOSED CONTOUR
---	PROPOSED OVERHEAD ELECTRIC & TELEPHONE
---	PROPOSED TREE LINE
○	PROPOSED UTILITY POLE
---	SILTATION FENCE

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100 Gannett Drive, Suite B, South Portland, ME 04106

STATE OF MAINE
MICHAEL S. DELETETSKY
No. 5023
LICENSED PROFESSIONAL ENGINEER

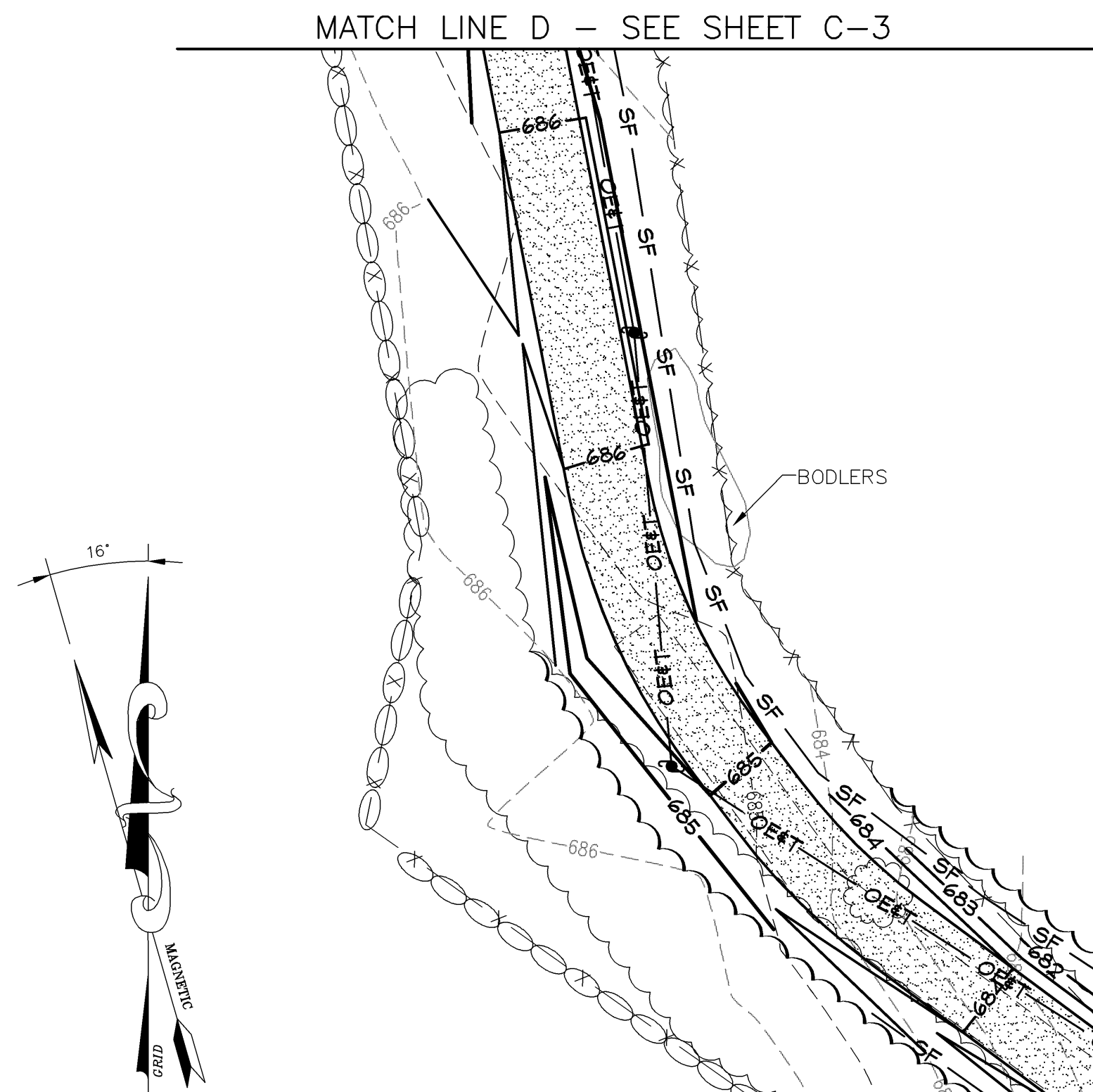
oest ASSOCIATES, INC.
engineers • architects • surveyors • construction managers
OEST PROJ. NO: 413.86.01

SITE NAME: RAYMOND	SITE NUMBER: 8534.62	ADDRESS: 19 FARM ROAD RAYMOND, ME 04071	DRAWING TITLE: SITE PLAN
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REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	X/XX/XX

DESIGNED BY: MSD	DATE: XX/XX/XX
DRAWN BY: CBM	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO: 413.86.01
DRAWING NO.:	

C-3

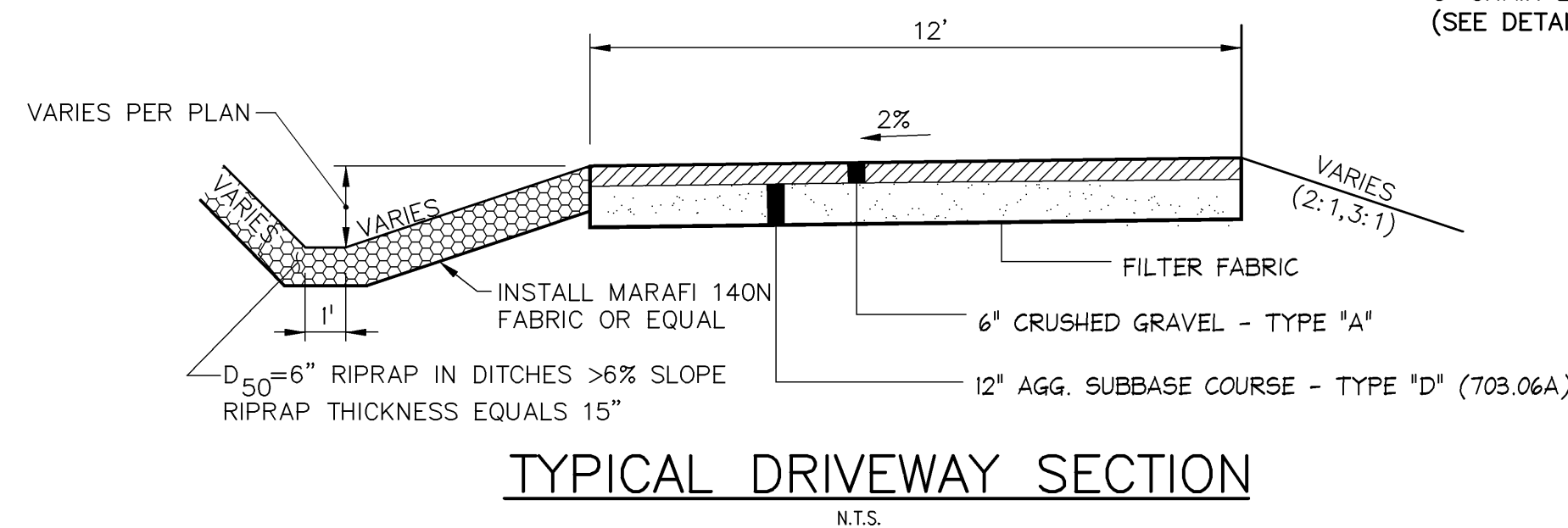
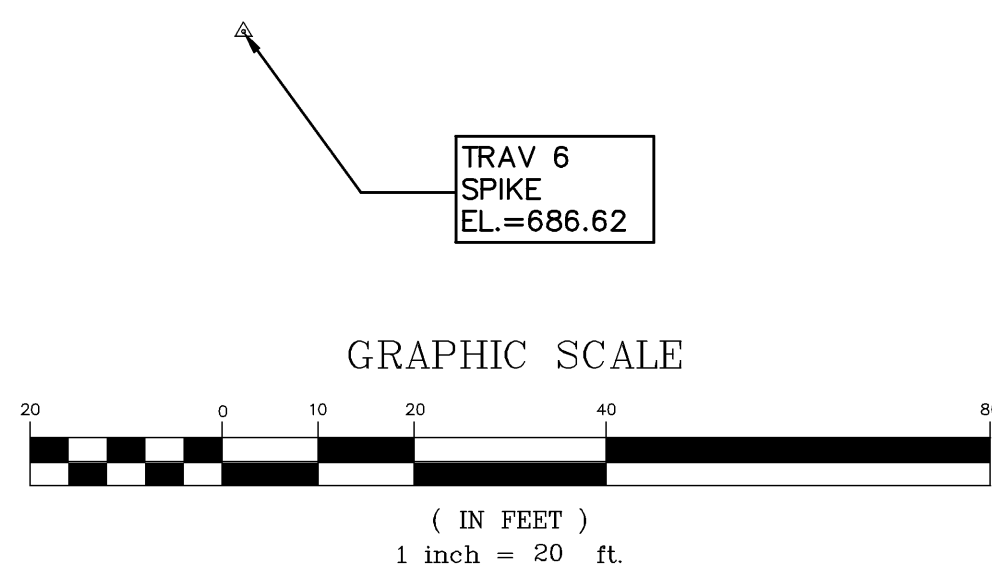


LEGEND	
---	PROPERTY LINE
---	ABUTTING PROPERTY LINE
○	IRON PIN FOUND (AS NOTED)
□	MONUMENT (AS NOTED)
○	UTILITY POLE
-----	STONE WALL
~~~~~	EXISTING TREE LINE
-----	EXISTING CONTOUR
-----	EXISTING OVERHEAD ELECTRIC & TELEPHONE
-----	PROPOSED CONTOUR
-----	PROPOSED OVERHEAD ELECTRIC & TELEPHONE
~~~~~	PROPOSED TREELINE
○	PROPOSED UTILITY POLE
---	SILTATION FENCE

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED & SEED

SEE SHEET C-5 FOR SITE LAYOUT PLAN

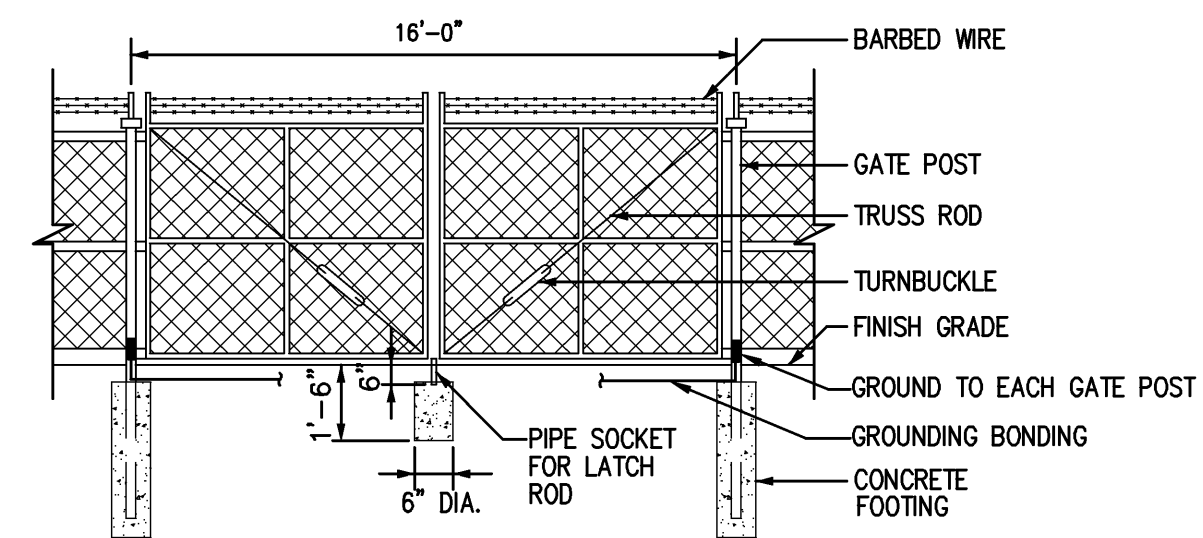
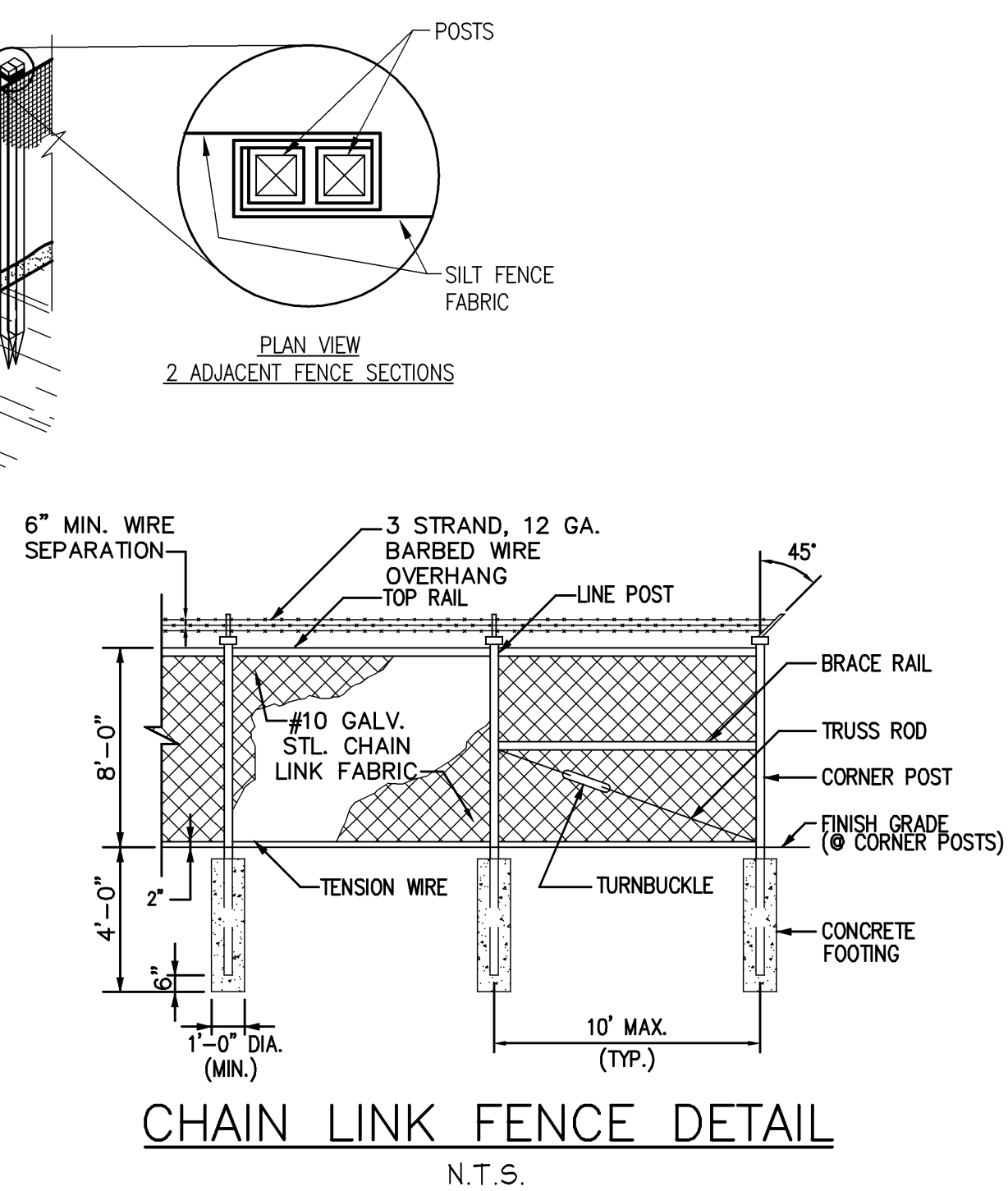
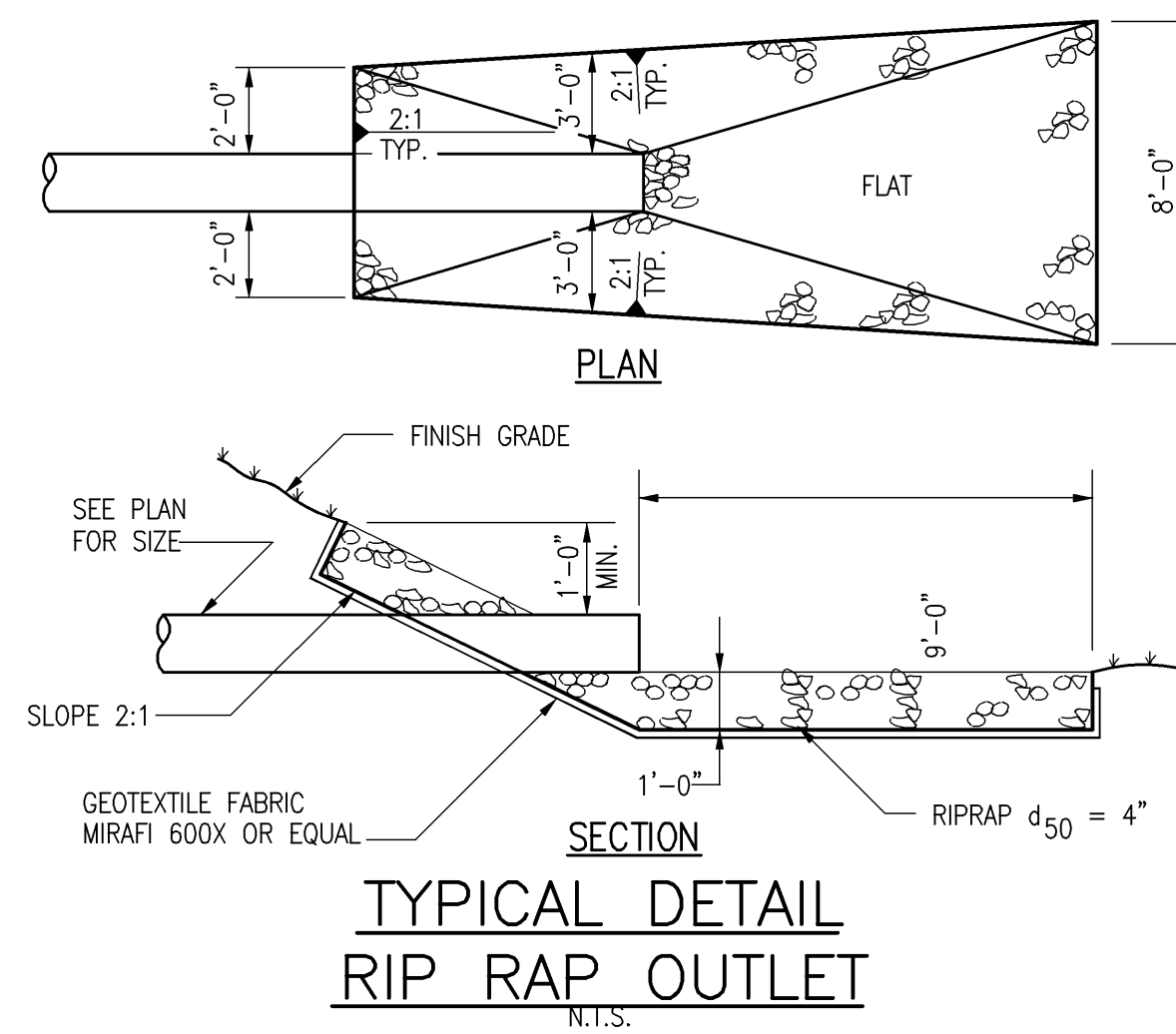
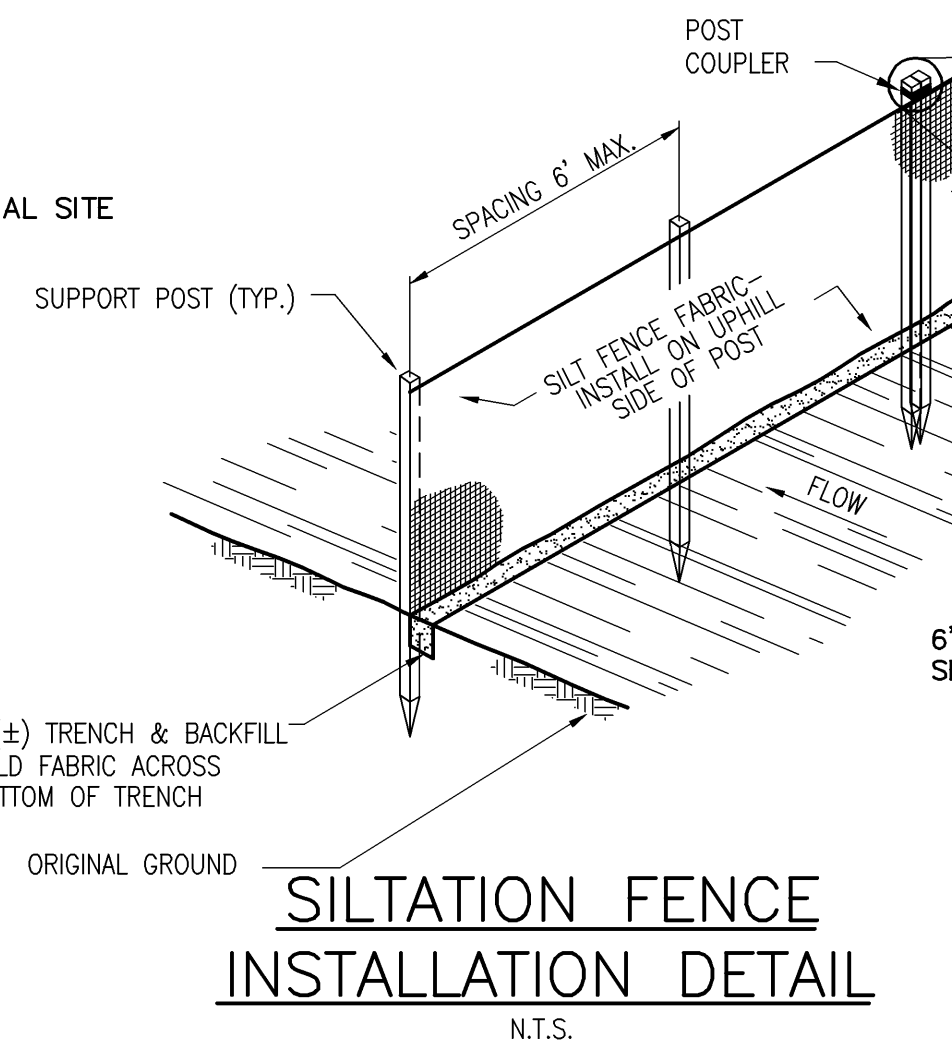
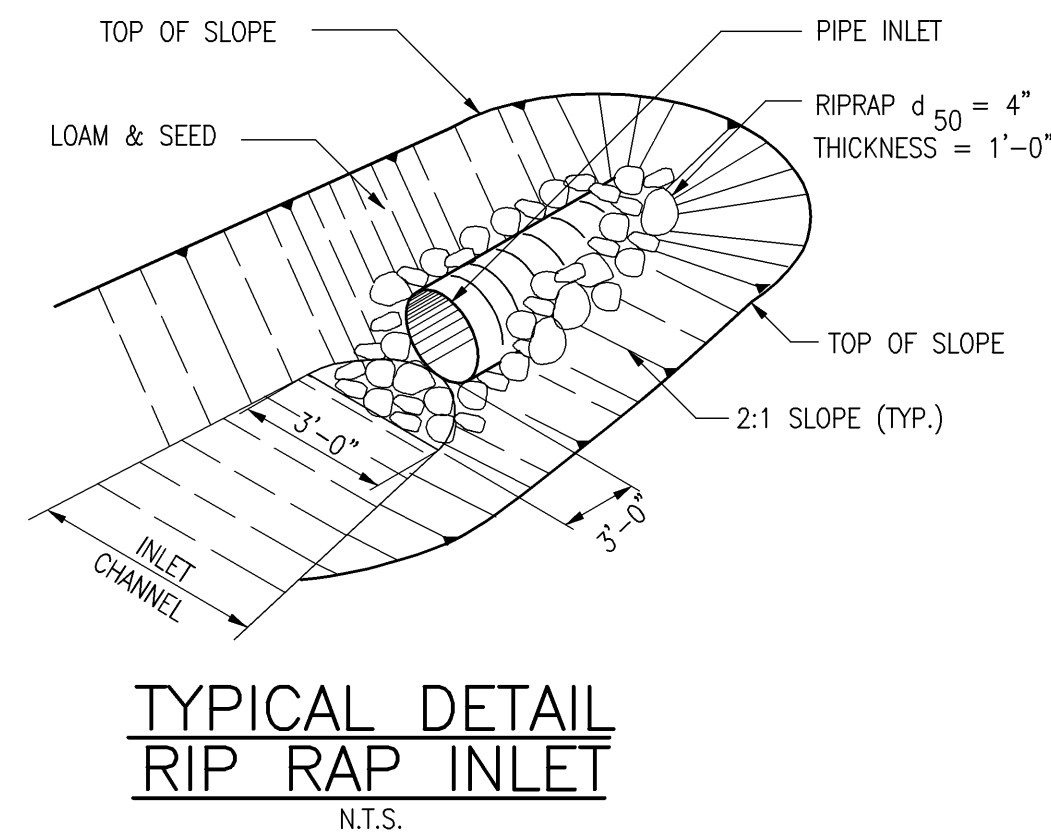
TREE LINE AS SHOWN ON DRAWING SHALL BE CONSIDERED CLEARING LIMIT



1 SITE PLAN

C-2

SCALE: 1"=20'



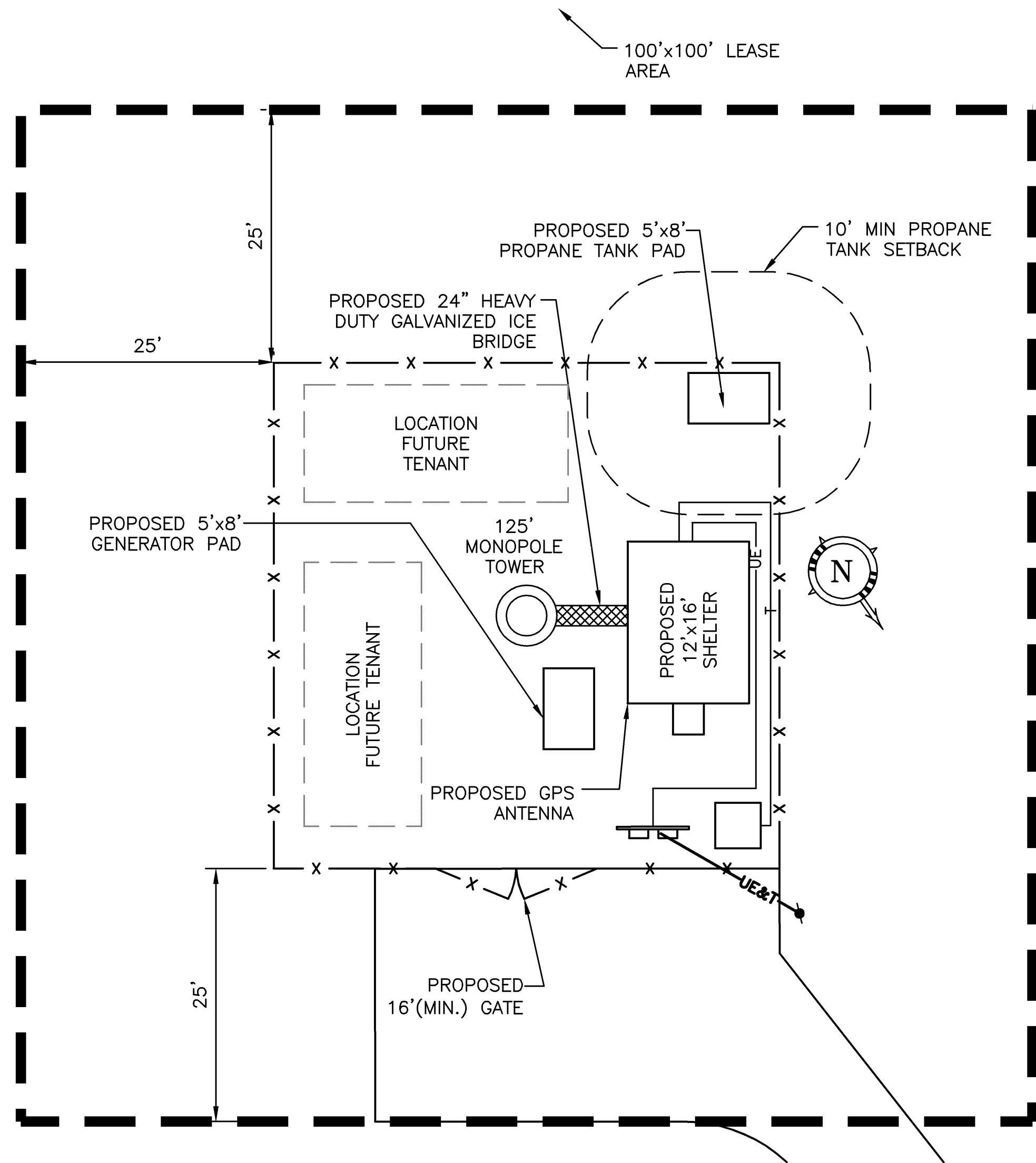
- FENCE GROUNDING NOTES:
- FENCE SHALL BE GROUNDED TO THE FACILITY OR TOWER EXTERNAL GROUND RING (EGR) AT EACH CORNER ON INSIDE OF FENCING COMPOUND.
 - ALL ENTRY GATES SHALL BE BONDED TO THE MAIN FENCE ASSEMBLY BY A METAL STRAP.
 - TWO HOLE COMPRESSION LUGS CAN BE USED IN PLACE OF EXOTHERMIC WELDS DUE TO THINNESS OF METAL.

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.

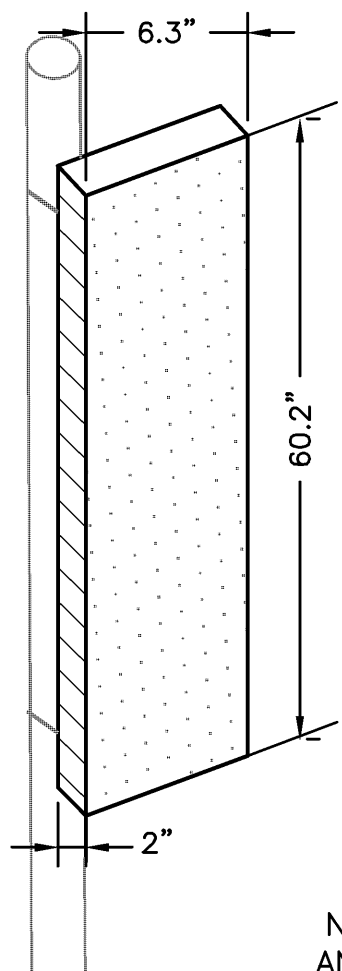
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SITE NUMBER:	8534.62
ADDRESS:	19 FARM ROAD
RAYMOND, ME 04071	
DRAWING TITLE:	SITE PLAN

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	X/XX/XX

DESIGNED BY:	DATE:
MSD	XX/XX/XX
DRAWN BY:	SCALE:
CBM	AS NOTED
CHECKED BY:	PROJECT NO.:
MSD	413.86.01
DRAWING NO.:	



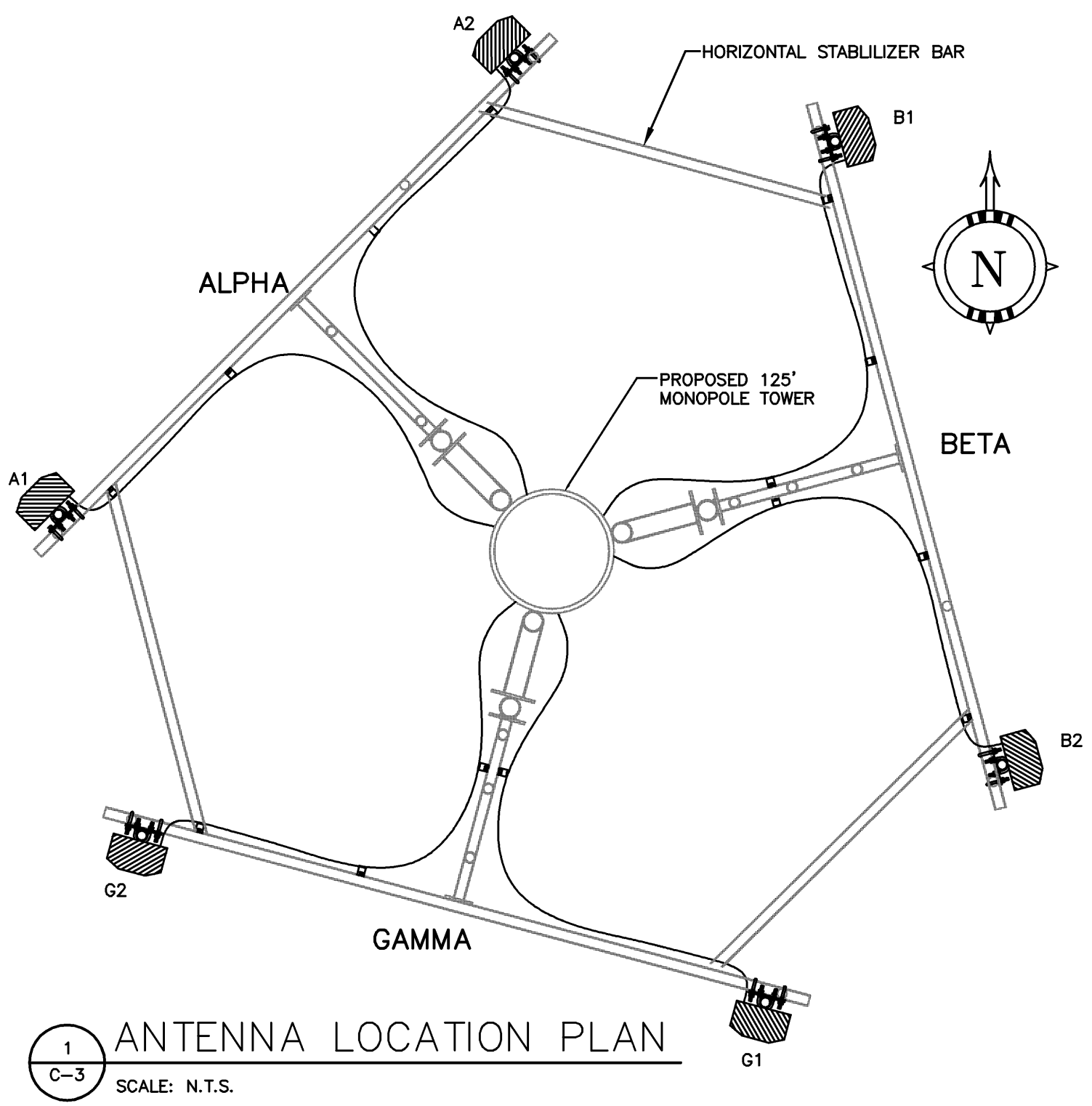
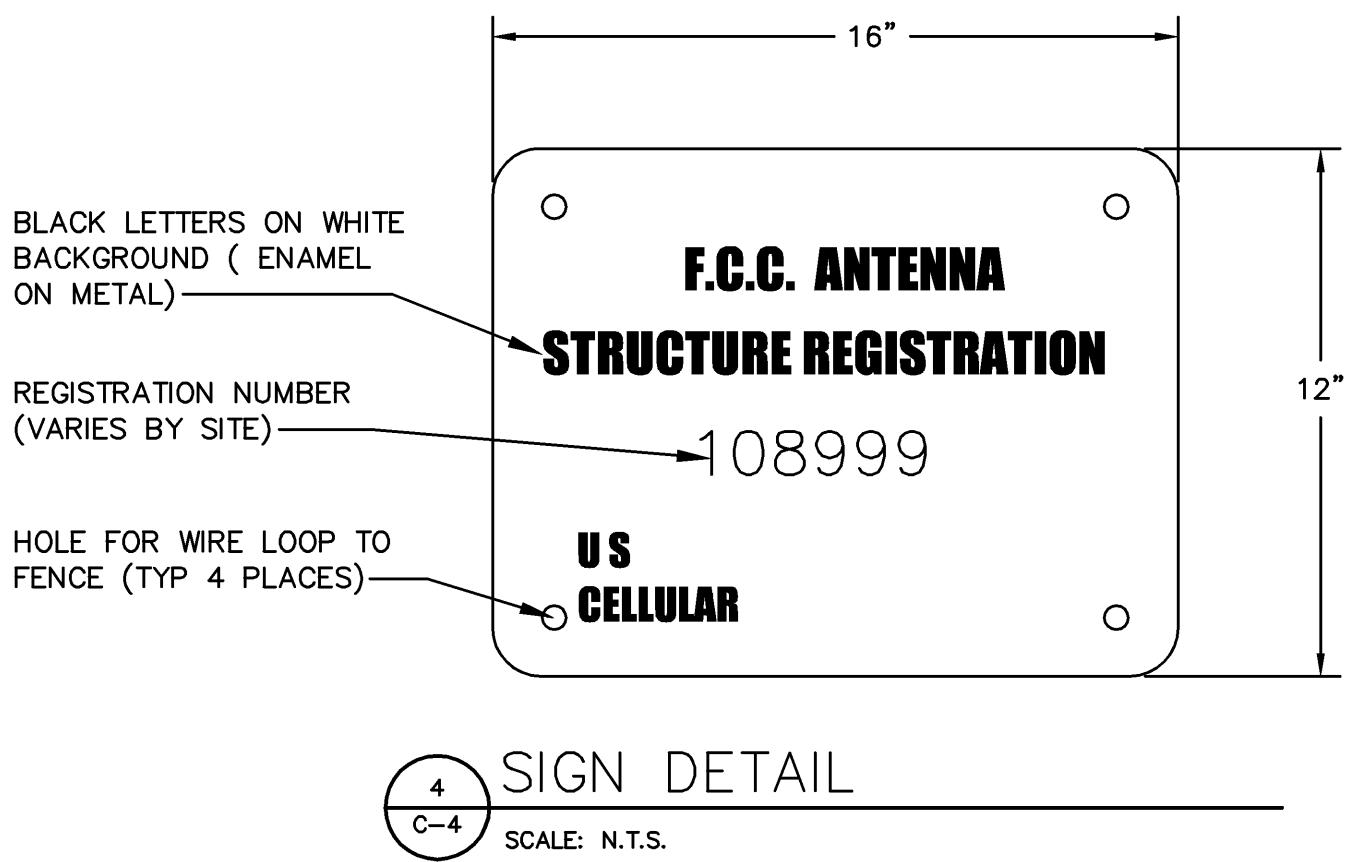
1 COMPOUND LAYOUT
C-3 SCALE: N.T.S.



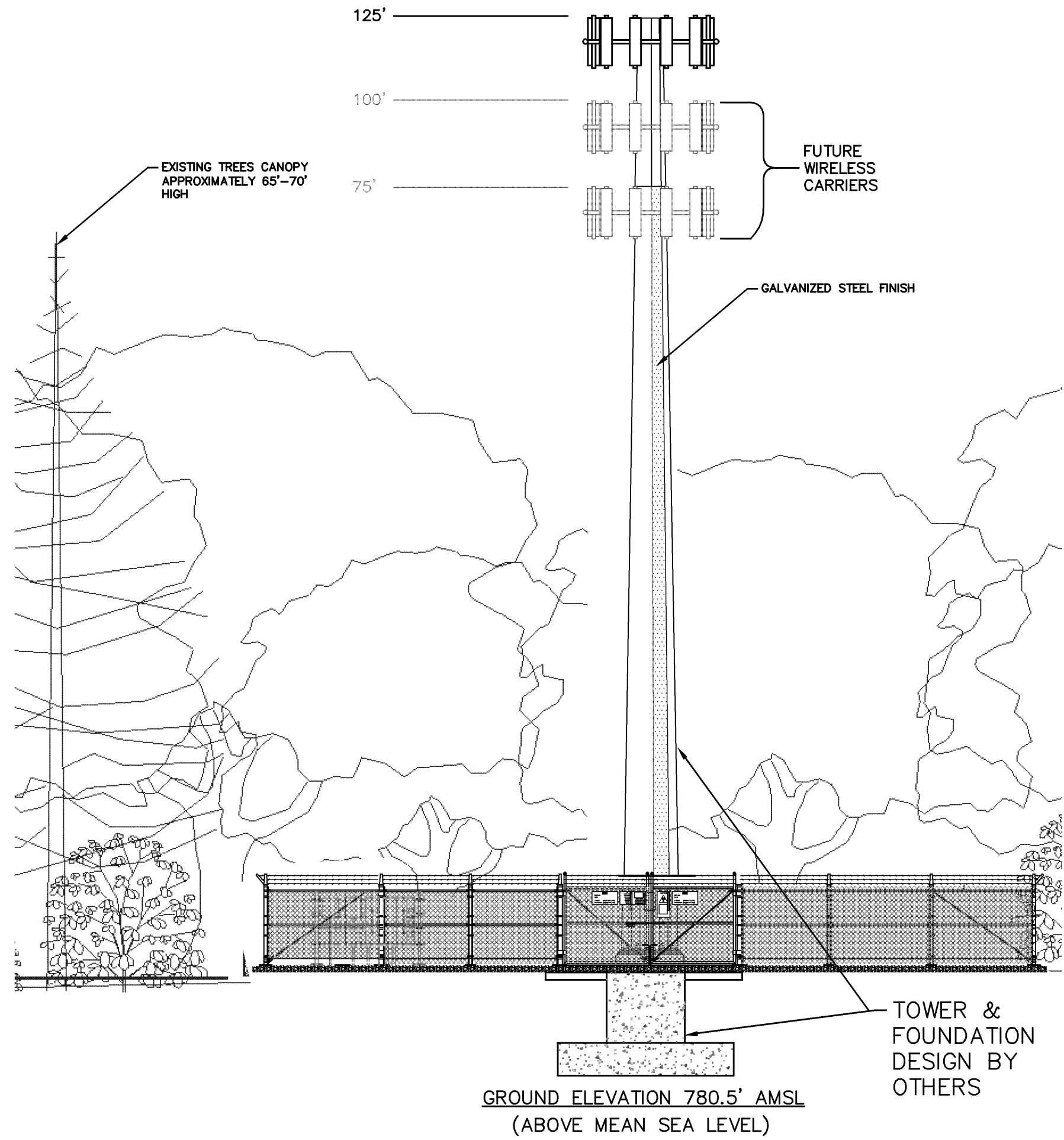
5 BSA-185065/10CF ANTENNA DETAIL
C-3 SCALE: N.T.S.

NOTE:
ANTENNA MASS IS .44 CUBIC FEET
60.2" X 6.3" X 2"= 758.52 CUBIC INCHES
758.52 CUBIC INCHES X 6 ANTENNA = 4551.12 CUBIC INCHES

- GENERAL NOTES:
1. A 12"x16" SITE INFORMATION SIGN SHALL BE INSTALLED NEXT TO THE MAIN ENTRY GATE AT APPROX. 42" ABOVE GRADE. SEE DETAIL THIS SHEET.
 2. LIGHT ON THE SHELTER TO BE SHIELDED TO PREVENT LIGHT FROM A CAST THAT EXCEEDS THE AREA 0.5' INSIDE THE PARENT PARCEL
 3. QUAZITE STRONGWELL BOX MODEL PG4848Z511
 4. FACE OF METER TO BE A MINIMUM OF 3'-0" FROM FENCE.
 5. FIELD LOCATE GPS ANTENNA ON ICE BRIDGE.
 6. ALL FUTURE CONDUIT TO FOLLOW FENCE LINE.



1 ANTENNA LOCATION PLAN
C-3 SCALE: N.T.S.



2 PROPOSED TOWER ELEVATION
C-3 SCALE: N.T.S.

ANTENNA AND COAXIAL CABLE SCHEDULE											
ANTENNA MARK	SECTOR	ANTENNA	WEIGHT	COAX CABLE FEED LOC	AZIMUTH (TRUE NORTH)	AZIMUTH (MAGNETIC NORTH)	TOP OF ANTENNA	COAXIAL CABLE LENGTH	COAXIAL CABLE	COLOR CODE	MECHANICAL DOWNTILT
A1	ALPHA	BSA-185065-10CF	9.1 LBS	BOTTOM	30°	46°	125'	160'	AVA7-50 1 5/8" ANDREW	R	0°
A2	1	BSA-185065-10CF	9.1 LBS	BOTTOM	30°	46°	125'	160'	AVA7-50 1 5/8" ANDREW	R(2X)	0°
B1	BETA	BSA-185065-10CF	9.1 LBS	BOTTOM	150°	166°	125'	160'	AVA7-50 1 5/8" ANDREW	W	0°
B2	2	BSA-185065-10CF	9.1 LBS	BOTTOM	150°	166°	125'	160'	AVA7-50 1 5/8" ANDREW	W(2X)	0°
G1	GAMMA	BSA-185065-10CF	9.1 LBS	BOTTOM	270°	286°	125'	160'	AVA7-50 1 5/8" ANDREW	B	0°
G2	3	BSA-185065-10CF	9.1 LBS	BOTTOM	270°	286°	125'	160'	AVA7-50 1 5/8" ANDREW	B(2X)	0°

We connect with you.

100 Garnett Drive, Suite B, South Portland, ME 04106

STATE OF MAINE
MICHAEL S. DELETETSKY
No. 5023
LICENSED PROFESSIONAL ENGINEER

neest ASSOCIATES, INC.
195 Cornwell Road, South Portland, ME 04106
P: 207.715.1776 F: 207.715.1846 www.neest.com
engineers • architects • surveys • construction managers

QEST PROJ. NO: 413.86.01

SITE NAME:
RAYMOND

SITE NUMBER:
853462

ADDRESS:
19 FARM ROAD
RAYMOND, ME 04071

DRAWING TITLE:
ANTENNA PLAN & ELEVATION

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	X/XX/XX

DESIGNED BY:
MSD

DATE:
X/XX/XX

DRAWN BY:
CBM

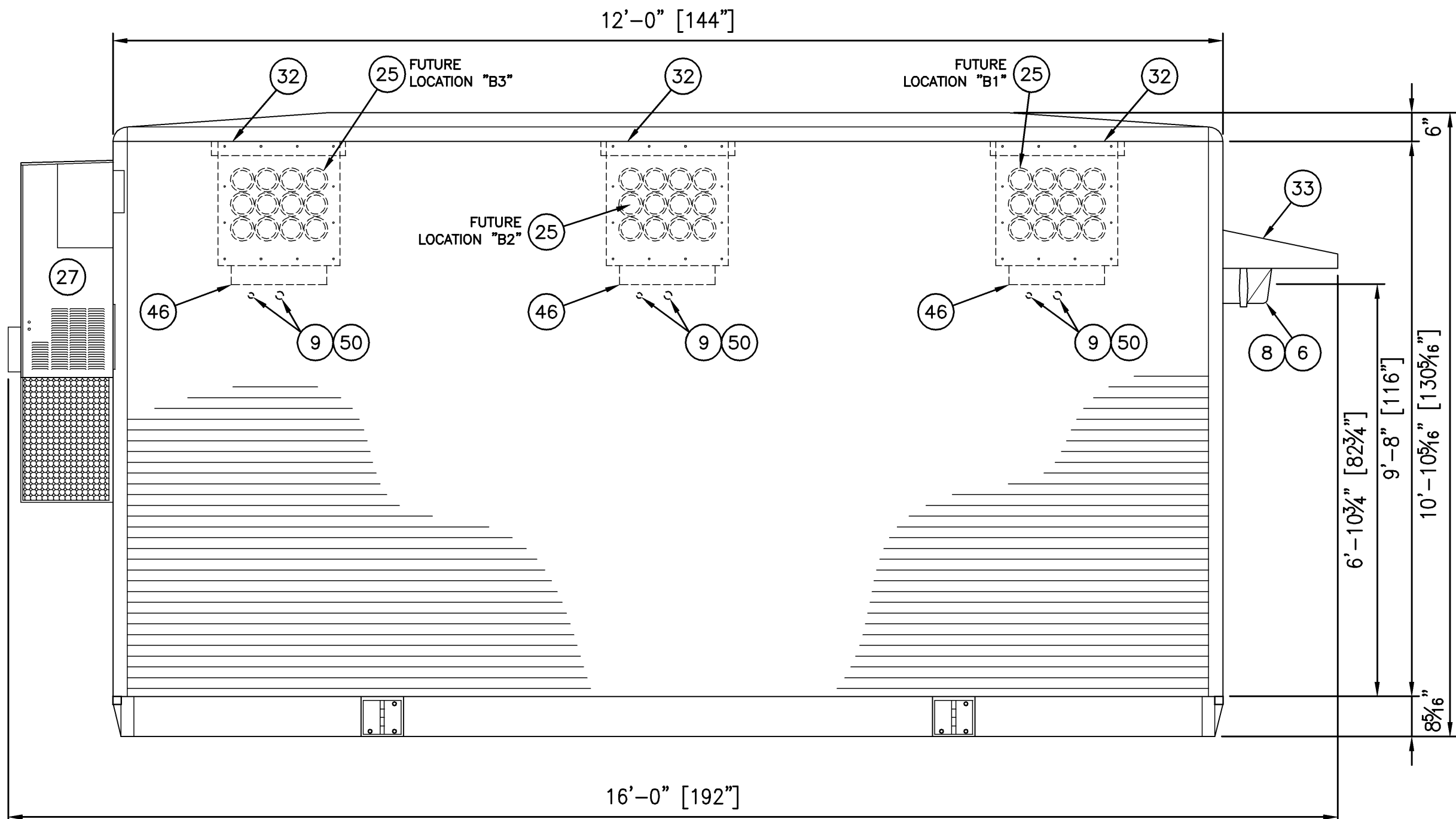
SCALE:
AS NOTED

CHECKED BY:
MSD

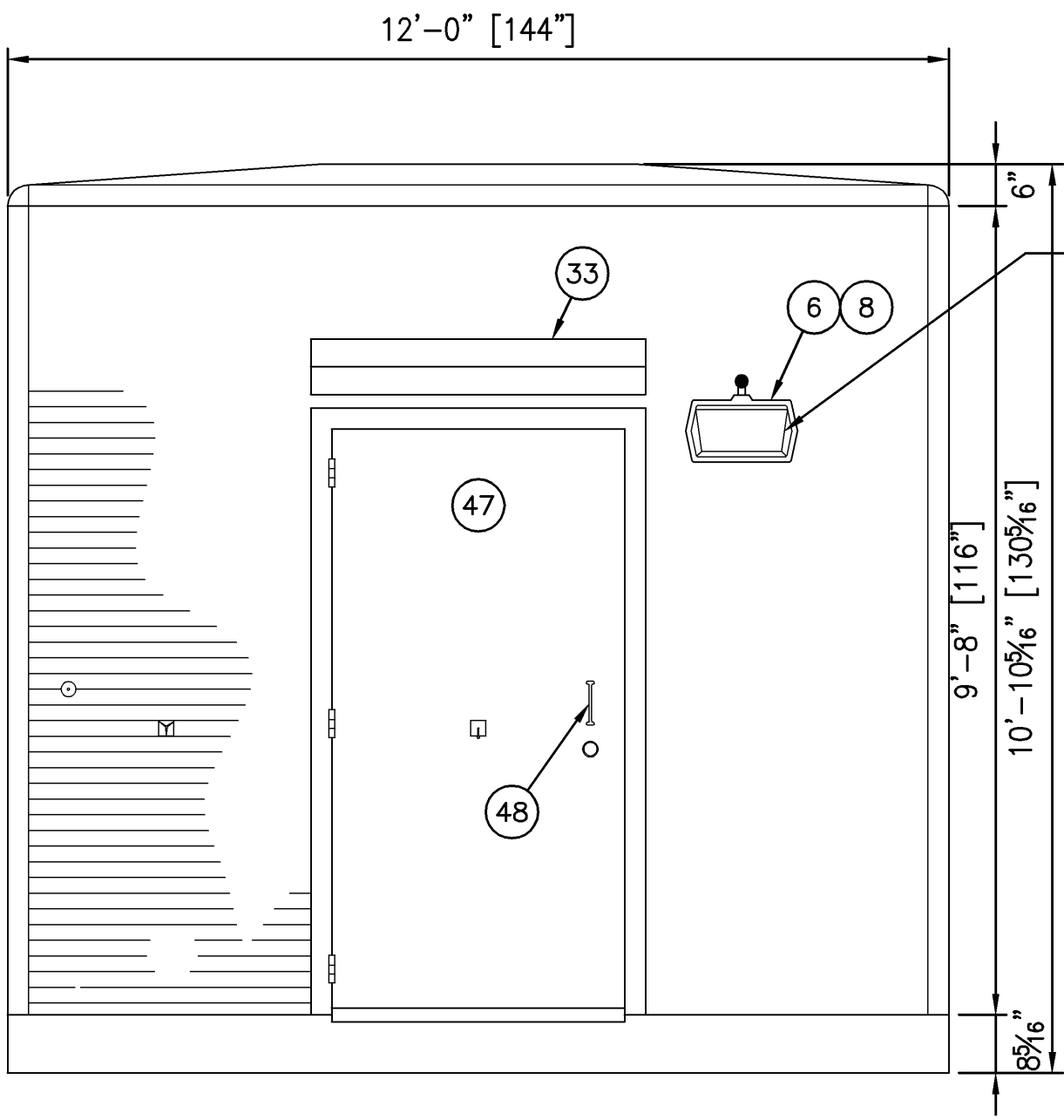
PROJECT NO.:
413.86.01

DRAWING NO.:

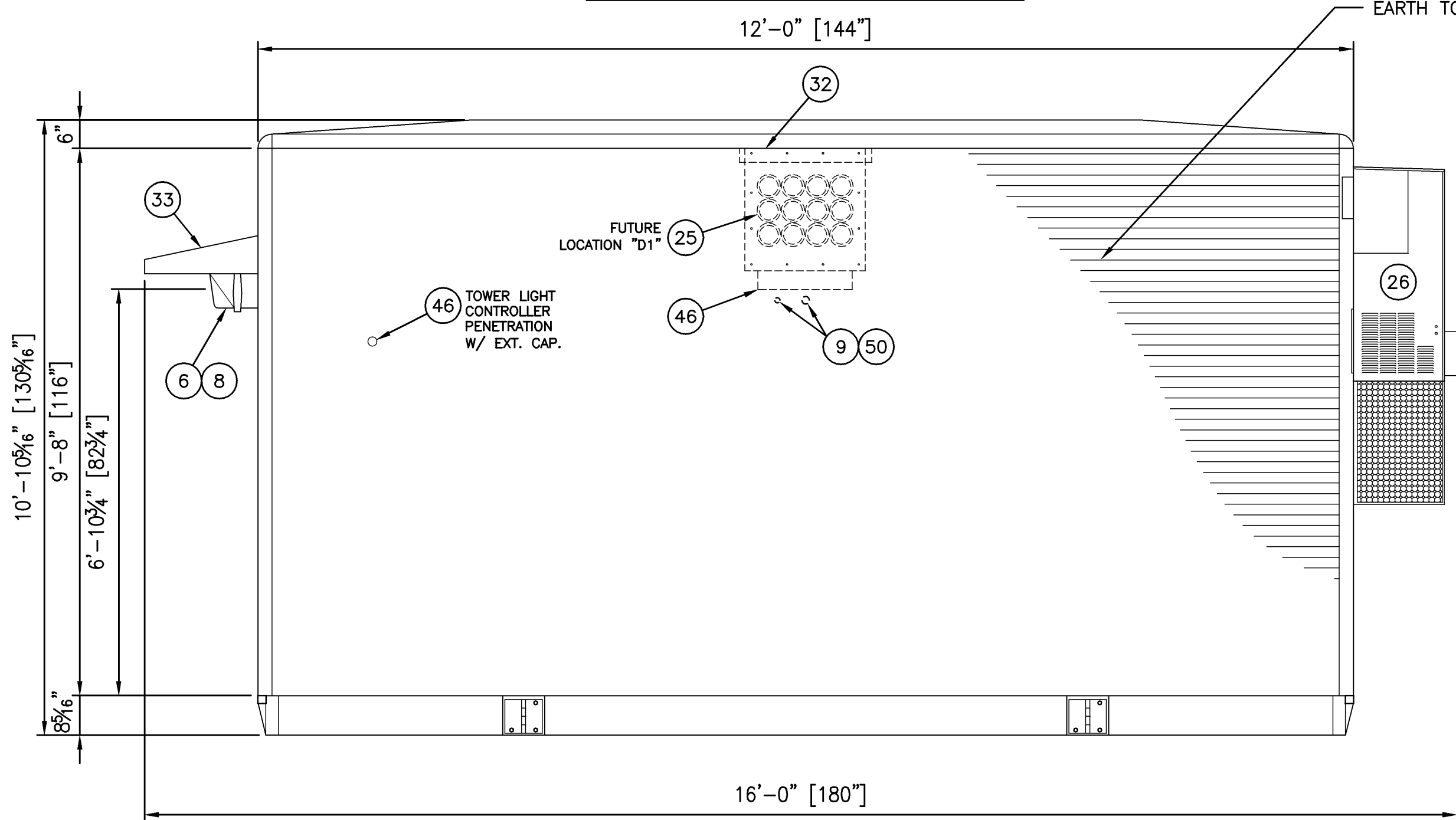
C-3



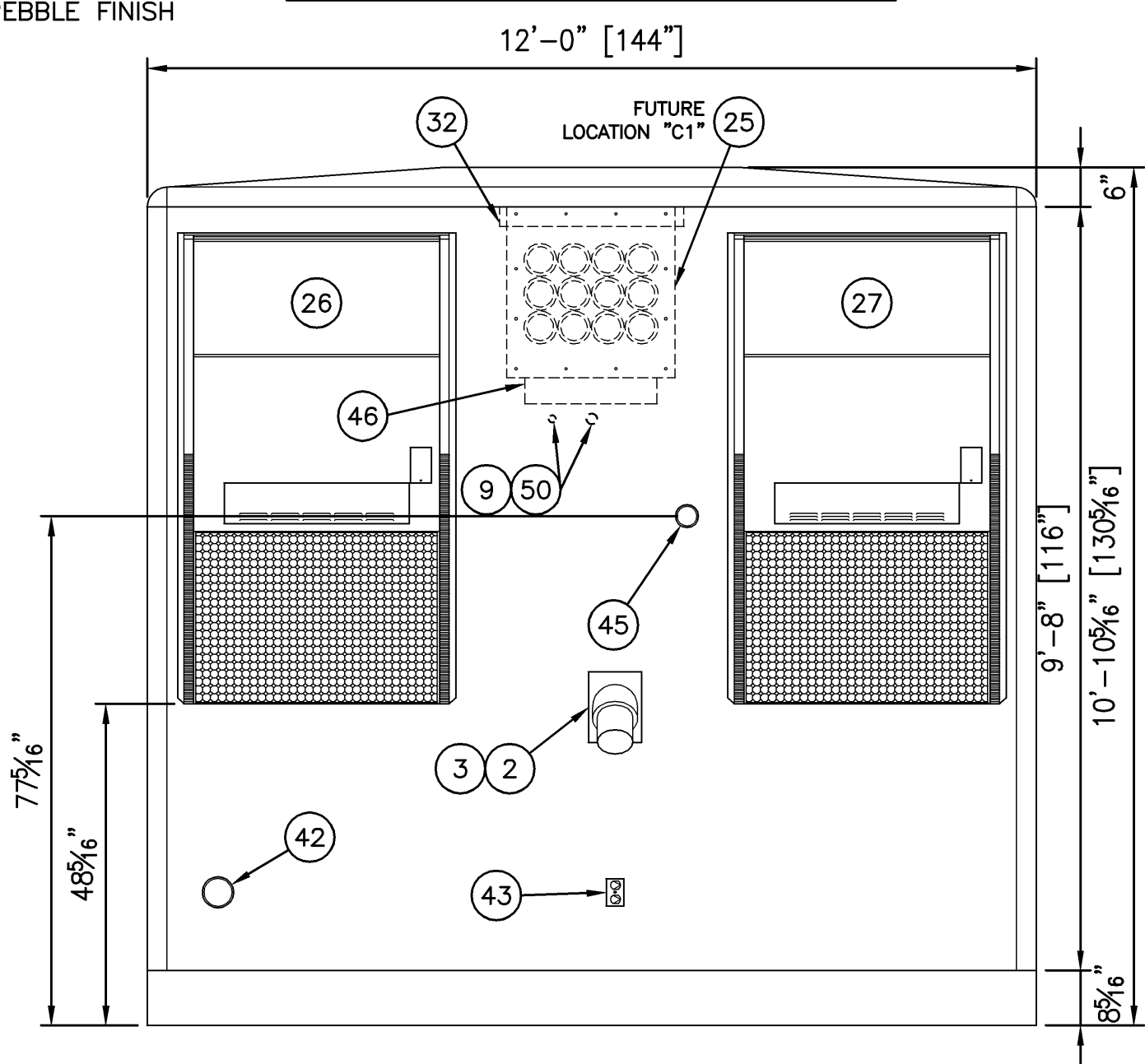
EXTERIOR ELEVATION WALL 'B'



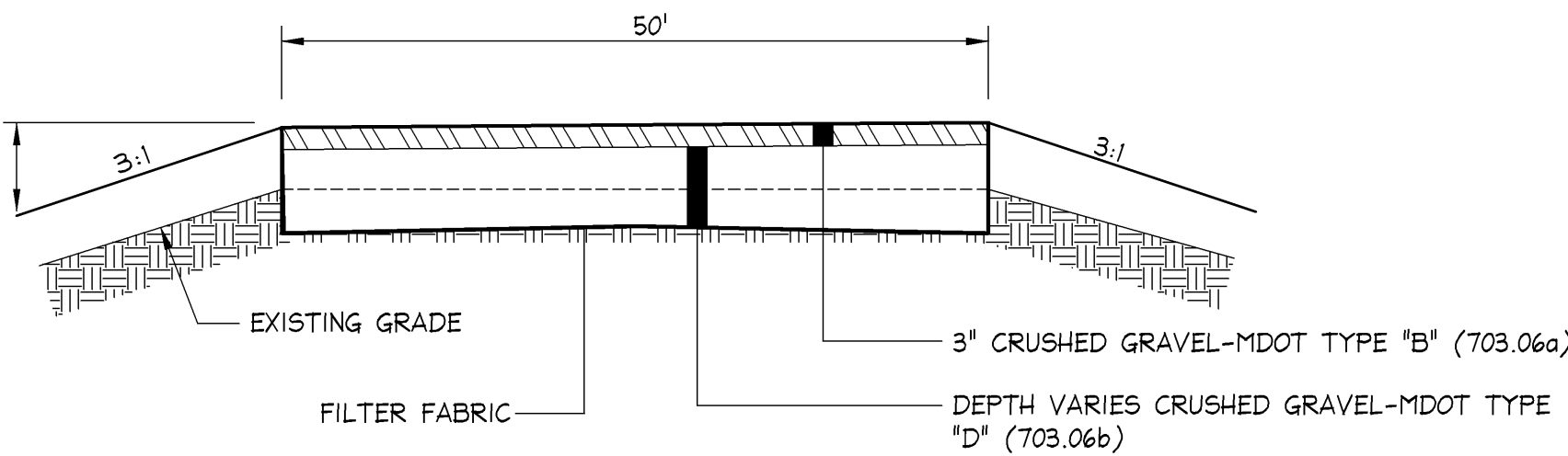
EXTERIOR ELEVATION WALL 'A'



EXTERIOR ELEVATION WALL 'D'



EXTERIOR ELEVATION WALL 'C'



TYPICAL COMPOUND SECTION

N.T.S.

MOTION DETECTOR OPERATOR 100
WATT LIGHT WITH DOWNWARD
REFLECTOR SHIELD

ITEM LIST				DESCRIPTION
NO.	QNT	U/M	PART NO.	
1	130	FT	01050200013	WIRE #2/0 GREEN THHN STRANDED FOR HALO GROUND W/ (4) EXIT DROPS
2	1	EA	01061000012	BACKBOX 60/100A CROUSE HINDS #AJ56
3	1	EA	01061000025	GENERATOR RECEPTACLE 100A 3W3P CROUSE HINDS #AR1031-S22
4	1	EA	01070800001	BOX 6"x6"x4" NEMA 1 WITH SCREW COVER
5	1	EA	01080000010	SWITCH MAGNETIC DOOR ALARM SPDT EDWARDS #61
6	1	EA	01082500009	PHOTOCELL EXTERIOR MOUNTED SWIVEL #K-4221
7	4	EA	01090100202	LIGHT FIXTURES 4ft METALUX #MWTR240A120VLE3-PEP
8	1	EA	010902000073	LIGHT FIXTURE EXTERIOR HPS 100W 120V LUMARK #PS10
9	2	EA	01130300007	NIPPLE RIGID 3/4"x4.5" GALV. CONDUIT
10	1	EA	01200300001	T-STAT 30-100° F 1HP DAYTON #2E206 - HIGH TEMP ALARM
11	1	EA	01200300001	T-STAT 30-100° F 1HP DAYTON #2E206 - LOW TEMP ALARM
12	1	EA	01200300002	T-STAT 42-88° F ELECTROMECHANICAL - HVAC #1
13	1	EA	01200300002	T-STAT 42-88° F ELECTROMECHANICAL - HVAC #2
14	49	FT	01230600311	CABLE LADDER 12"x116.5" ZINC
15	6	FT	01230600312	CABLE LADDER 6"x116.5" ZINC
16	1	EA	01230600365	CABLE LADDER, HORIZONTAL 90° BEND - (C/S)
17	1	EA	01230600366	CABLE LADDER, VERTICAL 90° BEND - (C/S)
18	2	EA	01230600067	CABLE LADDER, Y-JUNCTION - (C/S)
19	1	EA	01232600003	GROUND BAR 1/4"x2"x14" W/ CADWELDED #2 BARE SOLID WIRE
20	1	EA	01232600004	GROUND BAR 1/4"x4"x20" - SQUARE HOLES
21	1	EA	01252300017	66 BLOCK 50PR W/2 FEMALE CONNECTORS - (C/S)
22	1	EA	01272000032	LOADCENTER, 30SP, 200A, XFER, TVSS, NORTHERN TECHNOLOGIES - (C/S)
23	1	EA	01320300039	SMOKE DETECTOR SENTROL #449CSRT
24	1	EA	01332300006	FLAT BRAIDED #10 AWG STRAP
25	1	EA	15231400109	WAVEGUIDE 12 PORT 4" DIA. #B1118
26	1	EA	17023600024	HVAC #1 - 3-TON, 10KW, 1P, EUBANKS - ECON READY
27	1	EA	17023600025	HVAC #2 - 3-TON, 10KW, 1P, EUBANKS - WITH ECON
28	1	EA	28000100130	DOCUMENT HOLDER FOR MANUAL
29	1	EA	83001500160	LABEL - ELECTRICAL DATA PLATE - INTERIOR
30	1	EA	83001500358	LABEL - BUILDING I.D. PLATE - EXTERIOR
31	1	EA	83001500361	LABEL - QC DATA PLATE - INTERIOR
32	1	EA	100-00020	ICE BRIDGE SUPPORT ANGLE
33	1	EA	200-00002-2	DOOR RAINSHIELD 48" - BROWN
34	1	EA	300-00006	BATTERY FEET INSTALLATION
35	0.5	EA	304-00007-1	TELCO BOARD 4FTx4FT WHITE STUCCO COIL
36	9	EA	400-00005	CABLE LADDER SUPPORT KITS
38	3	EA	401-00002	4x4 JB WITH DUPLEX RECEPTACLE
39	8	EA	401-00006	4x4 JB WITH BLANK COVER
40	4	EA	401-00007	4x4 JB WITH 1/2"x4.5" RIGID NIPPLE
41	2	EA	401-00008	4x4 JB WITH 3/4"x4.5" RIGID NIPPLE
42	1	EA	401-00010	4"x4.5" RIGID NIPPLE TELCO ENTRY
43	1	EA	401-00027	EXTERIOR GFCI RECEPTACLE
44	3	EA	401-00029	4x4 JB WITH SINGLE DEVICE COVER
45	2	EA	401-00036	2"x4.5" RIGID NIPPLE SERVICE ENTRY
46	1	EA	401-00080	EXTERIOR GROUND BAR
47	1	EA	801-42840	DOOR/DOOR FRAME 3'-6" x 7'-0"
48	1	EA	-	DOOR HARDWARE
49	1	EA	03090800010	CAP 1/2" BLACK IRON SCHEDULE 40
50	2	EA	03091200010	CAP 3/4" BLACK IRON SCHEDULE 40
51	1	EA	401-00041	4x4 JB WITH SINGLE SWITCH
52	2	EA	401-00002	4x4 JB WITH DUPLEX RECEPTACLE
53	2	EA	01230600350	CABLE LADDER CEILING HANGER BRACKET #CHB11

GENERAL NOTE:
CONTRACTOR SHALL FIELD LOCATE AND CORE HOLES FOR PERMANENT GENERATOR HOOK UP
AS REQUIRED.

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CLIENT REVIEW	X/XX/XX

DESIGNED BY: MSD	DATE: X/XX/XX
DRAWN BY: CBM	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO.: 413.86.01
DRAWING NO.:	

GENERAL

- 1 COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL MECHANICAL, ELECTRICAL AND PIPING WORKS.
- 2 NOTIFY OEST OF ANY CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWING.
- 3 VERIFY ALL DIMENSIONS IN THE FIELD. DURING ERECTION AND CONSTRUCTION PHASES, PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING OF ALL STRUCTURAL COMPONENTS AND ASSEMBLAGES. NOTIFY OEST OF ALL FIELD CHANGES OR DIMENSION DISCREPANCIES PRIOR TO FABRICATION OR ERECTION.

CODES

- 1 ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IBC 2000.
- 2 ADDITIONAL REFERENCED STANDARDS:
 - A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION – ALLOWABLE STRESS DESIGN 1989, 9TH EDITION
 - B. METAL BUILDING MANUFACTURES ASSOCIATION (MBMA) 1986 LOW RISE BUILDING SYSTEMS MANUAL
 - C. AMERICAN CONCRETE INSTITUTE ACI 318–95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - D. AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS
 - E. AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7–98 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- 3 ALL APPLICABLE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND THE AMERICANS WITH DISABILITIES ACT (ADA).

CONCRETE AND REINFORCING STEEL

- 1. REFER TO APPROVED INDIVIDUAL SITE FOUNDATION DESIGN.
- 2. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BENEATH FOUNDATION AREAS.
- 3. STRUCTURAL FILL AND BACKFILL SHALL CONSIST OF A NON GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER AND PLACED IN UNIFORM 6” LIFTS.
- 4. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
- 5. CONSTRUCT THE SIDES OF THE STRIP FOOTING FOUNDATION STRAIGHT AND VERTICAL, TO REDUCE THE RISK OF FROZEN SOIL ADHERING TO THE CONCRETE AND LIFTING THE FOUNDATION. THE USE OF FORMS AT THE TOP OF THE STRIP FOOTING MAY BE NECESSARY TO PREVENT THE CREATION ON AN ENLARGED AREA OF CONCRETE (MUSHROOM). IF A MUSHROOM OF CONCRETE OCCURS, HEAVE OF THE FOUNDATION CAN TAKE PLACE FROM FROZEN SOIL BENEATH THE MUSHROOM HEAVING UP AND CARRYING THE FOUNDATION WITH IT.
- 6. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 AND ACI 318. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28–DAY CYLINDER TESTS. UNLESS AN ALTERNATE CONCRETE MIX DESIGN IS APPROVED, CONCRETE MIXES SHALL BE AS FOLLOWS:
 - A. CONCRETE SHALL HAVE 4000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
 - B. MAXIMUM AGGREGATE SIZE SHALL BE 3/4” (ASTM C33/467).
 - C. CEMENT SHALL BE ASTM C150 TYPE I OR TYPE II U.N.O.
 - D. ALL STRUCTURAL CONCRETE SHALL BE AIR ENTRAINED (5.5 +/- 1.5%).
 - E. SLUMP SHALL BE 2” TO 4”.
- 7. REINFORCING STEEL SHALL HAVE MINIMUM COVER PROTECTION AS FOLLOWS:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3”
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER: 2”
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLABS 1 1/4”
 - WALLS, JOISTS – #11 BAR AND SMALLER 3/4”
 - BEAMS, COLUMNS:
 - PRIMARY REINFORCEMENT, TIES,
 - STIRRUPS, SPIRALS 1 1/2”
 - D. LIQUID RETAINING STRUCTURES:
 - SURFACES EXPOSED TO LIQUID 2”
- 8. THIRD PARTY INSPECTION REQUIRED ON ALL REBAR PLACEMENT AND CONCRETE TESTING. ALL RESULTS SUBMITTED TO US CELLULAR CONSTRUCTION MANAGER. MINIMUM 1 SET OF FOUR CYLINDERS UP TO 100 YARDS AND 1 SET FOR EACH SUBSEQUENT 100 YARDS OR PORTION THERE OF. A CYLINDER BREAK AT 7 DAYS AND 2 AT 28 DAYS FOR EACH SET OF FOUR CYLINDER.

STRUCTURAL AND MISCELLANEOUS STEEL

- 1 STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN, JUNE 1, 1989 (9TH EDITION).
- 2 HIGH STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH AISC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS, NOVEMBER 13, 1985.
- 3 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USE AWS PREQUALIFIED JOINT DETAILS.
- 4 STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
 - A. CONNECTION MATERIAL, EMBEDDED ITEMS, HOT ROLLED STRUCTURAL SHAPES, BASE PLATES AND MIS. STEEL. ASTM A36
 - B. STRUCTURAL TUBES ASTM A500 GRADE B
 - C. STEEL PIPE ASTM A53, GRADE B
 - D. STRUCTURAL BOLTS ASTM A325–W U.N.O.
 - E. ANCHOR BOLTS ASTM A307 OR ASTM A36ECIFIC
 - F. THREADED RODS ASTM A36 OR ASTM A307
 - G. WELDING ELECTRODES E70XX

GROUNDING NOTES:

- 1. ALL DETAILS ARE SHOWN DIAGRAMATICALLY. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS. PER US CELLULAR GROUNDING STANDARDS REV. MARCH 2005.
- 2. ALL GROUND WIRE SHALL BE BARE TINNED COPPER #2 AWG UNLESS OTHERWISE NOTED.
- 3. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- 4. ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING GROUND RINGS WITH SITE CONSTRUCTION MANAGER.
- 5. EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS UNLESS NOTED OTHERWISE. GROUNDING INSTALLATION SHALL BE ACCORDANCE WITH THE EQUIPMENT SITE SPECIFICATIONS GUIDELINES.
- 6. PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR TWO MOUNTING PIPES PER SECTOR).
- 7. ANTENNA GROUND KITS SHALL BE FURNISHED BY US CELLULAR AND INSTALLED BY RF CONTRACTOR.
- 8. GROUND SYSTEM SHALL BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.
- 9. THE FACILITY GROUND RING WILL CONSIST OF A GROUND WIRE MADE OF #2 AWG SOLID TINNED, COPPER WIRE THAT WILL SURROUND THE BUILDING, TOWER OF OTHER ABOVE GROUND STRUCTURE. IT MUST CONSIST OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.
- 10. THE GROUND RING WILL BE INSTALLED AT A MINIMUM DEPTH OF 2 FEET. IN AREAS HAVING A DESIGNATED FROST LINE BELOW 2 FEET, THE GROUND RING WILL BE INSTALLED AT A DEPTH OF 6 INCHES BELOW THE PREDETERMINED FROST LINE.
- 11. THE GROUNDING RING WILL BE INSTALLED A MINIMUM OF 2–3 FEET FROM THE BUILDING FOUNDATION AND BEYOND THE BUILDING DRIP LINE, PREFERABLY AROUND THE ENTIRE STRUCTURE. ALTERNATE EARTH GROUND SYSTEM MAY BE ACCEPTABLE WITH USCC APPROVAL.
- 12. GROUND ROD WILL BE EXOTHERMICALLY WELDED OR COMPRESSION CRIMPED TO THE RING AND DRIVEN INTO THE GROUND TO THE APPROPRIATE DEPTH (2½” BELOW THE FROST LINE, WHICHEVER IS GREATER) AND AT THE APPROPRIATE SPACING (TYPICALLY ONE–ROD LENGTH MINIMUM/TWO–ROD LENGTH MAXIMUM) BETWEEN RODS. GROUND RODS SIZING WILL BE A MINIMUM OF 10 FEET LONG, AND 3/4”.

EROSION AND SEDIMENT CONTROL PLAN

THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR CONTROLLING SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED DEVELOPMENT.

- 1. ALSO SEE:
 - 1. SILTATION FENCE DETAIL (SHEET C–4)
 - 2. GENERAL CONSTRUCTION DETAILS (THIS SHEET)
 - 3. SEEDING AND REVEGETATION PLAN (THIS SHEET)PIPE,

GENERAL CONSTRUCTION DETAILS

THE EQUIPMENT ANTICIPATED TO BE USED FOR THE CONSTRUCTION INCLUDES THE FOLLOWING: BACKHOES, BULLDOZERS, LOADERS, TRUCKS, CRANES, COMPACTORS, AND GRADERS. THE FOLLOWING MEASURES WILL BE UNDERTAKEN TO PROVIDE MAXIMUM PROTECTION TO THE SOIL, WATER, AND ABUTTING LANDS:

- 1. PRIOR TO GRUBBING OR ANY EARTHMOVING OPERATION, SILTATION FENCE WILL BE INSTALLED ACROSS THE SLOPE ON THE CONTOUR AT THE DOWNHILL LIMIT OF THE WORK AS PROTECTION AGAINST CONSTRUCTION RELATED EROSION.
- 2. STONE CHECK DAMS WILL BE INSTALLED IN THE DRAINAGE SWALES TO PREVENT EROSION PRIOR TO THE STABILIZATION OF THE CHANNELS. EROSION CONTROL MESH WILL ALSO BE INSTALLED IN ALL DITCH TO BE REVEGETATED.
- 3. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA WILL BE COMPLETED WITHIN FIFTEEN CALENDAR DAYS AFTER FINAL GRADING HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE OR PRACTICAL TO PERMANENTLY STABILIZE DISTURBED LAND, TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED WITHIN THIRTY CALENDAR DAYS OF EXPOSURE OF SOIL. ALL DISTURBED AREAS WILL BE MULCHED FOR EROSION CONTROL UPON COMPLETION OF ROUGH GRADING.
- 4. ANY EXPOSED SLOPES GREATER THAN 3:1 AND NEWLY CONSTRUCTED DRAINAGE SWALES WILL BE STABILIZED WITH EROSION CONTROL MESH TO PREVENT EROSION DURING CONSTRUCTION AND TO FACILITATE REVEGETATION AFTER LOAMING AND SEEDING.
- 5. TO PROVIDE PROTECTION AGAINST EROSION, RIPRAP WILL BE PLACED AT ALL STORM DRAIN INLETS AND OUTLETS AS SHOWN ON THE ATTACHED DRAWINGS.
- 6. IN AREAS OF CONSTRUCTION DEWATERING, ISOLATED SETTLEMENT TRAPS WILL BE CONSTRUCTED ADJACENT TO THE ACTIVITY. WATER WILL BE PUMPED FROM THE EXCAVATIONS TO THESE DEPRESSION AREAS FOR SEDIMENT REMOVAL. ADDITIONAL SEDIMENTATION PROTECTION WILL BE PROVIDED BY THE INSTALLATION OF HAYBALE BARRIERS BETWEEN THE BASINS AND THE RECEIVING DRAINAGE COURSE.
- 7. NATIVE TOPSOIL SHALL BE SAVED, STOCKPILED, MULCHED, AND REUSED AS MUCH AS POSSIBLE ON THE SITE. SILTATION FENCE SHALL BE INSTALLED AT THE BASE OF STOCKPILES AT THE DOWNHILL LIMIT TO PROTECT AGAINST EROSION. STOCKPILES WILL BE STABILIZED BY SEEDING AND MULCHING UPON FORMATION OF THE PILES. UPHILL OF THE STOCKPILES, STABILIZED DITCHES AND/OR BERMS WILL BE CONSTRUCTED TO DIVERT STORMWATER RUNOFF AWAY FROM THE PILES. ALL SILTATION FENCE AND HAY BALE BARRIERS WILL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS OR FOLLOWING ANY SIGNIFICANT RAINFALL (1/2 INCH OR MORE) OR SNOWMELT. ALL DAMAGED EROSION CONTROL DEVICES WILL BE REPAIRED AND/OR REPLACED IMMEDIATELY. TRAPPED SEDIMENT WILL BE REMOVED BEFORE IT HAS ACCUMULATED TO ONEHALF OF THE INSTALLED SILTATION FENCE OR HAY BALE BARRIER HEIGHT. DEVICES NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION WILL ALSO BE REPAIRED AND/OR REPLACED AS NECESSARY.
- 9. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15 OF THE YEAR OF CONSTRUCTION, THEN WITHIN THE NEXT 10 CALENDAR DAYS THESE AREAS WILL BE GRADED AND SMOOTHED, THEN SEEDED TO A WINTER COVER CROP OF RYE AT A RATE OF 3 LBS. PER 1,000 SQ. FT. THE FOLLOWING WILL BE INCORPORATED INTO THE SOIL PRIOR TO RYE SEEDING: GROUND LIMESTONE AT A RATE OF 130 LBS. PER 1,000 SQ. FT., FOLLOWED BY A 10–10–10 FERTILIZER AT A RATE OF 14 LBS. PER 1,000 SQ. FT. HAY MULCH WILL BE APPLIED AT A RATE OF 100 LBS. PER 1,000 SQ. FT. FOLLOWING SEEDING. IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1, THEN ON THAT DATE HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE TO PROVIDE WINTER PROTECTION. IF RYE DOES NOT MAKE ADEQUATE GROWTH BY NOVEMBER 5, THEN ON THAT DATE, HAY MULCH SHALL BE APPLIED AT THE RATE OF 100 LBS. PER 1,000 SQ. FT. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL. BIODEGRADABLE NETTING WILL BE INSTALLED ON STEEP SLOPES (3:1 AND STEEPER) AND ON AREAS OF CONCENTRATED FLOWS.
- 10. INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND INCORPORATED INTO THE PROJECT AREA.

COAXIAL–CABLE BRIDGE NOTES

- 1. ALL BRIDGE KITS SHALL BE INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS.
- 2. STRUCTURAL STEEL SHALL BE ASTM A36. PIPE SHALL BE ASTM A53, GRADE B (SEAMLESS)
- 3. EXTERIOR STEEL SHALL BE HOT–DIP GALVANIZED, AFTER FABRICATION AND WELDING, TO ASTM A123. HARDWARE SHALL BE EITHER A325 STEEL, GALVANIZED TO ASTM A153, OR 18–8 STAINLESS.
- 4. SIZE, NUMBER AND POSITION OF COAXIAL CABLES MAY VARY.
- 5. POSITION BRIDGE ASSEMBLY SO THAT COAXIAL CABLES INTERSECT AT LADDER CENTERLINE. HEIGHT ABOVE GROUND MAY VARY ACCORDING TO SITE LAYOUT.
- 6. FOUNDATION SHALL BE 12” DIAM. SONOTUBE 48” DEEP BELOW GRADE AND 6” ABOVE GRADE FILLED WITH 4000 psi CONCRETE WITH 3/4”Ø MAXIMUM AGGREGATE.
- 7. FOR BURIED LEDGE AT LESS THAN 3’–6” BELOW FINISHED GRADE, CORE 8” DIAM. HOLE INTO LEDGE 18” DEEP. EMBED CABLE BRIDGE COLUMN TO BOTTOM OF HOLE FILL AROUND PIPE WITH NON–SHRINK GROUT. USE COAL TAR ON BURIED LENGTH OF PIPE, AND BACKFILL TO FINISHED GRADE.
- 8. FOR POSTS ON CONCRETE OR EXPOSED LEDGE, PROVIDE 8”x8”x 5/8” BASEPLATE ANCHORED SHOWN ON PLAN.

- 11. SHOULD CONSTRUCTION OCCUR AFTER NOVEMBER 15, ADDITIONAL EROSION CONTROL METHODS WILL BE IMPLEMENTED. ALL DISTURBED AREAS WILL BE MINIMIZED AS MUCH AS POSSIBLE. PRIOR TO FREEZING, ADDITIONAL EROSION CONTROL DEVICES WILL BE INSTALLED AS APPROPRIATE. INSPECTION OF THESE EROSION CONTROL ITEMS WILL BE CONSTANT, WITH PARTICULAR ATTENTION PAID TO WEATHER PREDICTIONS TO ENSURE THAT THESE MEASURES ARE PROPERLY IN PLACE TO HANDLE LARGE AMOUNTS OF RUNOFF FROM HEAVY RAINS OR THAWS.

SEEDING AND REVEGETATION PLAN

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED WILL BE TREATED AS STATED BELOW. THESE AREAS WILL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL SUCH TIME AS A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED.

- 1. LOAM WILL BE SPREAD OVER ALL DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH OF 4 INCHES.
- 2. THE FOLLOWING WILL BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING: AGRICULTURAL LIMESTONE AT THE RATE OF 130 POUNDS PER 1,000 SQUARE FEET, FOLLOWED BY 10–10–10 FERTILIZER AT THE RATE OF 14 POUNDS PER 1,000 SQUARE FEET.
- 3. DISTURBED AREAS WILL BE SEEDED AT THE RATE OF 100 LBS/ACRE OF NHDOT SLOPE SEED TYPE 44 AND 20 LBS/ACRE OF CROWN VETCH.
- 4. SEEDING WILL BE COMPLETED BETWEEN THE DATES OF APRIL 1 AND SEPTEMBER 15. WATERING MAY BE REQUIRED DURING DRY PERIODS.
- 5. HAY MULCH WILL BE APPLIED AT THE RATE OF 100 LBS. PER 1,000 SQ. FT. FOLLOWING SEEDING. MULCH SHALL BE ANCHORED BY WATERING OR TRACKING BY BULLDOZER FLAT AREAS, USING ANCHORING EMULSION OR TRACKING BY BULLDOZER ON AREAS OF MODERATE SLOPES AND INSTALLING BIODEGRADABLE NETS ON STEEP SLOPES (3:1 AND STEEPER).
- 6. ALL SEDIMENT CONTROL STRUCTURES WILL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 75% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

CONSTRUCTION NOTE

TOWER SHALL BE DESIGNED IN ACCORDANE WITH CURRENT ANSI/EIA/TIA 222 FOR CUMBERLAND MAINE.



US Cellular

We connect with you.

100 Gamett Drive, Suite B, South Portland, ME 04106

STATE OF MAINE

PROFESSIONAL ENGINEER

MICHAEL S. DELETETSKY
No. 5023

LICENSED



neest ASSOCIATES, INC.
340 Cornwell Road, South Portland, ME 04106
P: 207.710.1700 F: 207.710.1500 www.neest.com

engineers • architects • surveys • construction managers

OEST PROJ. NO: 413.86.01

SITE NAME:
RAYMOND

SITE NUMBER:
8534.62

ADDRESS:
19 FARM ROAD
RAYMOND, ME 04071

GENERAL NOTES

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	X/XX/XX

DESIGNED BY: MSD	DATE: X/XX/XX
DRAWN BY: CBM	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO.: 413.86.01
DRAWING NO.:	

APPENDIX C

Review Request Letters and Responses

U.S. Department of the Interior Fish and Wildlife Service
Maine Department of Inland Fisheries and Wildlife
Maine Natural Areas Program
FCC Tower Notification





A & D Klumb Environmental, LLC

May 27, 2009

US Department of Fish and Wildlife
1168 South Main Street
Old Town, Maine 04468

RE: Proposed Telecommunications Facility, Raymond, ME

To Whom It May Concern:

A & D Klumb Environmental, LLC is conducting a National Environmental Policy Act (NEPA) review for the above referenced project at the request of our telecommunications client. This site is located at 19 Farm Road, Raymond, ME. The site consists of an approximately 10,000 square foot lease area and access and utility easements. The telecommunications tower will be a 125-foot Lattice. The Latitude/Longitude of the tower location is: 43°56'37.4"N/70°26'2"W and is shown on the attached map.

The tower, equipment shelter, and all related equipment will be located within a 75-foot x 75-foot fenced compound within the lease area.

As part of A & D Klumb Environmental's NEPA review, we would respectfully request that you review the tower site and its immediate surroundings for the presence of designated wilderness areas and wildlife preserves, the potential presence of threatened or endangered species; and proposed or designated critical habitats. Please notify me by letter or email of any potential impacts on threatened or endangered species and critical habitats.

A & D Klumb Environmental, LLC would like to thank you in advance for your earliest possible consideration of this matter. Please contact me at (603) 746-5065 if you have any questions.

Sincerely,

Sarah E. Cate
Office Assistant



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Maine Field Office – Ecological Services

1168 Main Street

Old Town, ME 04468

(207) 827-5938 Fax: (207) 827-6099

In Reply Refer To: 53411-2009-SL-0306

FWS/Region5/ES/MEFO



June 1, 2009

Ms. Sarah E. Cate, Office Assistant
A&D Klumb Environmental, LLC
34 Centennial Drive
Webster, NH 03303

Dear Ms. Cate,

Thank you for your letter dated May 27, 2009 requesting information or recommendations from the U.S. Fish and Wildlife Service. This letter provides the Service's response pursuant to Section 7 of the Endangered Species Act (ESA), as amended (16 U.S.C. 1531-1543), Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d, 54 Stat. 250) and the Fish and Wildlife Coordination Act, as amended (16 U.S.C. 661-667d).

Project Name/Location: Proposed Telecommunication Facility, Raymond

Federally listed species

Based on the information currently available to us, no federally threatened or endangered species under the jurisdiction of the Service are known to occur in the project area. Accordingly, no further action is required under Section 7 of the ESA, unless: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by the identified action.

Other protected species

We have not reviewed this project for state-threatened and endangered wildlife, wildlife species of special concern, and significant wildlife habitats protected under the Maine Natural Resources Protection Act. I recommend that you contact the Maine Department of Inland Fisheries and Wildlife:



Steve Timpano
Maine Department of Inland Fisheries and Wildlife
284 State St.
State House Station 41
Augusta, ME 04333-0041
Phone: 207 287-5258

Non-federally listed Atlantic salmon may occur in the project area. I recommend that you contact the Department of Marine Resources for additional information:

Norm Dube
Maine Department of Marine Resources
650 State St.
Bangor, ME 04401

I recommend that you contact the Maine Natural Areas Program for additional information on state-threatened and endangered plant species, plant species of special concern, and rare natural communities:

Lisa St. Hilaire
Maine Natural Areas Program
Department of Conservation
93 State House Station
Augusta, ME 04333
Phone: 207 287-8046

Bald eagles

Occasional, transient bald eagles (*Haliaeetus leucocephalus*) may occur in the area. Based on the information currently available to use, there are no bald eagle nests near your project. The bald eagle was removed from the federal threatened list on August 9, 2007 and is now protected from take under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. "Take" means to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb. The term "disturb" under the Bald and Golden Eagle Protection Act was recently defined within a final rule published in the Federal Register on June 5, 2007 (72 Fed. Reg. 31332). "Disturb" means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to an eagle; 2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior; or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior.

Further information on bald eagle delisting and their protection can be found at <http://www.fws.gov/migratorybirds/baldeagle.htm>.

Please consult with our new national bald eagle guidelines, which can found at <http://www.fws.gov/migratorybirds/issues/BaldEagle/NationalBaldEagleManagementGuidelines.pdf>.

These Guidelines are voluntary and were prepared to help landowners, land managers and others meet the intent of the Eagle Act and avoid disturbing bald eagles. If you believe your project will result in taking or disturbing bald or golden eagles, please contact our office for further guidance. We encourage early and frequent consultations to avoid take of eagles.

If you have any questions, please call Mark McCollough, endangered species biologist, at (207) 827-5938 ext.12.

Sincerely,



Lori H. Nordstrom, Project Leader
Maine Field Office



A & D Klumb Environmental, LLC

May 27, 2009

State of Maine
Department of Inland Fisheries and Wildlife
Gray Regional Headquarters
RR1 338 Shaker Road
Gray, ME 04039

RE: Proposed Telecommunications Facility, Raymond, ME

To Whom It May Concern:

A & D Klumb Environmental, LLC is conducting a National Environmental Policy Act (NEPA) review for the above referenced project at the request of our telecommunications client. This site is located at 19 Farm Road, Raymond, ME. The site consists of an approximately 10,000 square foot lease area and access and utility easements. The telecommunications tower will be a 125-foot Lattice. The Latitude/Longitude of the tower location is: 43°56'37.4"N/70°26'2"W and is shown on the attached map.

The tower, equipment shelter, and all related equipment will be located within a 75-foot x 75-foot fenced compound within the lease area.

As part of A & D Klumb Environmental's NEPA review, we would respectfully request that you review the tower site and its immediate surroundings for the presence of designated wilderness areas and wildlife preserves, the potential presence of threatened or endangered species; and proposed or designated critical habitats. Please notify me by letter or email of any potential impacts on threatened or endangered species and critical habitats.

A & D Klumb Environmental, LLC would like to thank you in advance for your earliest possible consideration of this matter. Please contact me at (603) 746-5065 if you have any questions.

Sincerely,

Sarah E. Cate
Office Assistant

34 Centennial Drive
Webster, NH 03303

603-746-5065
klumbenvironmental@klumbenv.com



A & D Klumb Environmental, LLC

May 27, 2009

Lisa St. Hilaire
Maine Natural Areas Program
17 Elkins Lane
93 State House Station
Augusta, Maine 04333

RE: Proposed Telecommunications Facility, Raymond, ME

Dear Ms. St. Hilaire:

A & D Klumb Environmental, LLC is conducting a National Environmental Policy Act (NEPA) review for the above referenced project at the request of our telecommunications client. This site is located at 19 Farm Road, Raymond, ME. The site consists of an approximately 10,000 square foot lease area and access and utility easements. The telecommunications tower will be a 125-foot Lattice. The Latitude/Longitude of the tower location is: 43°56'37.4"N/70°26'2"W and is shown on the attached map.

The tower, equipment shelter, and all related equipment will be located within a 75-foot x 75-foot fenced compound within the lease area.

As part of A & D Klumb Environmental's NEPA review, we would respectfully request that you review the tower site and its immediate surroundings for the presence of designated wilderness areas and wildlife preserves, the potential presence of threatened or endangered species; and proposed or designated critical habitats. Please notify me by letter or email of any potential impacts on threatened or endangered species and critical habitats.

A & D Klumb Environmental, LLC would like to thank you in advance for your earliest possible consideration of this matter. Please contact me at (603) 746-5065 if you have any questions.

Sincerely,

Sarah E. Cate
Office Assistant



STATE OF MAINE
DEPARTMENT OF CONSERVATION
93 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0093

JOHN ELIAS BALDACCI
GOVERNOR

PATRICK K. MCGOWAN
COMMISSIONER

June 1, 2009

Sarah Cate
A & D Klumb Environmental
34 Centennial Drive
Webster, NH 03303

Re: Rare and exemplary botanical features, telecommunications facility, Raymond, Maine.

Dear Ms. Cate:

I have searched the Natural Areas Program's Biological and Conservation Data System files in response to your request of May 27, 2009 for information on the presence of rare or unique botanical features documented from the vicinity of the project site in the Town of Raymond, 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 qualified 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.

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 \$75.00 for 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,



Janet Gannon
Associate Information Manager
Maine Natural Areas Program
207-287-8044

Janet.Gannon@maine.gov

Enclosures

Rare and Exemplary Botanical Features in the Project Vicinity

6/1/2009

Documented within a Four-Mile Radius of the Proposed Telecommunications Facility, Raymond, Maine.

<u>Scientific Name</u>	<u>Last Seen</u>	<u>Global Rarity Rank</u>	<u>State Rarity Rank</u>	<u>State Protection Status</u>	<u>Habitat Description</u>
<u>Common Name</u> Phegopteris hexagonoptera Broad Beech Fern	1895-09	G5	S2	SC	Rich, often rocky, hardwood forests.
Potamogeton vaseyi Vasey's Pondweed	1800	G4	S2	SC	Quiet muddy or calcareous waters.
Eragrostis capillaris Tiny Love-grass	1908-11	G5	SH	PE	Dry sandy or rocky soils.
Isotria verticillata Large Whorled Pogonia	1895	G5	SX	PE	Acid or mediacid mixed forests.
Aureolaria pedicularia Fern-leaved False Foxglove	1895	G5	S3	SC	Dry deciduous woods and clearings.
Quercus coccinea Scarlet Oak	1893	G5	S1	E	Dry sandy soil.
Calystegia spithamea Upright Bindweed	1958-06-22	G4G5	S2	T	Sandy or rocky open soil, thin woods.

Rare and Exemplary Botanical Features in the Project Vicinity

6/1/2009

Documented within a Four-Mile Radius of the Proposed Telecommunications Facility, Raymond, Maine.

<u>Scientific Name</u>	<u>Last Seen</u>	<u>Global Rarity Rank</u>	<u>State Rarity Rank</u>	<u>State Protection Status</u>	<u>Habitat Description</u>
Aureolaria pedicularia Fern-leaved False Foxglove	2001-06-08	G5	S3	SC	Dry deciduous woods and clearings.
Vitis aestivalis var. bicolor Summer Grape	2001-06-01	G5T5	S2	T	Dry woods and thickets.
Aureolaria pedicularia Fern-leaved False Foxglove	2001-06-01	G5	S3	SC	Dry deciduous woods and clearings.
Clematis occidentalis var. occidentalis Purple Clematis	2001-06-08	G5T5	S3	SC	Rocky (often calcareous slopes) and open woods.
Vitis aestivalis var. bicolor Summer Grape	2001-06-08	G5T5	S2	T	Dry woods and thickets.
Maple - basswood - ash forest Enriched Northern Hardwoods Forest	2001-06-08	GNR	S3		Rich northern hardwood forest of sheltered sites, primarily on broad coves with slopes above them. Sugar maple dominant; basswood characteristic. Bedrock enriched
Oak - pine woodland Oak - Pine Woodland	2001-06-08	G3G5	S4		Oak-pine, or oak-spruce woodlands of knolls and hilltops where soils are excessively well-drained and bedrock outcrops are abundant. Heath shrubs scattered in the

Rare and Exemplary Botanical Features in the Project Vicinity

6/1/2009

Documented within a Four-Mile Radius of the Proposed Telecommunications Facility, Raymond, Maine.

<u>Scientific Name</u>	<u>Common Name</u>	<u>Last Seen</u>	<u>Global Rarity Rank</u>	<u>State Rarity Rank</u>	<u>State Protection Status</u>	<u>Habitat Description</u>
Carex siccata	Dry Land Sedge	2001-06-08	G5	S2	SC	Dry, sterile or sandy soil, in open places in light shade
Cypripedium arietinum	Ram's-head Lady's-slipper	1935	G3	S1	E	Damp or mossy woods or bogs.
Aureolaria pedicularia	Fern-leaved False Foxglove	1893-08-28	G5	S3	SC	Dry deciduous woods and clearings.
Oak - pine forest		2005-06-21	G5	S4		Red oak - white pine forests of sandy soils or rocky slopes in central and southern Maine. Soils are moderately to very xeric.
Oak - Pine Forest						

STATE RARITY RANKS

- S1** 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.
- S3** 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.
- SU** 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?).

Note: State Rarity Ranks are determined by the Maine Natural Areas Program.

GLOBAL RARITY RANKS

- G1** Critically imperiled globally 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 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** Not yet ranked.

Note: Global Ranks are determined by NatureServe.

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.
- T** 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.

Subject: Proposed Tower Structure Info - Email ID #2211963

From: towernotifyinfo@fcc.gov

Date: Wed, 3 Jun 2009 17:01:15 -0400 (EDT)

To: klumbenvironmental@klumbenv.com

Dear Audra Klumb,

Thank you for submitting a notification regarding your proposed structure via the Tower Construction Notification Application. Note that the FCC has assigned a unique Notification ID number for this proposed structure.

You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the tower you have proposed to construct:

Notification Received: 06/03/2009

Notification ID: 52374

Tower Owner Individual or Entity Name: US Cellular

Consultant Name: Audra Klumb

Street Address: 34 Centennial Drive

City: Webster

State: NEW HAMPSHIRE

Zip Code: 03303

Phone: 603-746-5065

Email: klumbenvironmental@klumbenv.com

Structure Type: POLE - Any type of Pole

Latitude: 43 deg 56 min 37.7 sec N

Longitude: 70 deg 25 min 57.9 sec W

Location Description: 19 Farm Road

City: Raymond

State: MAINE

County: CUMBERLAND

Ground Elevation: 237.9 meters

Support Structure: 38.1 meters above ground level

Overall Structure: 38.1 meters above ground level

Overall Height AMSL: 276 meters above mean sea level

Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION
NOTIFICATION INFORMATION - Email ID #2215871

From: towernotifyinfo@fcc.gov

Date: Fri, 12 Jun 2009 03:00:42 -0400 (EDT)

To: klumbenvironmental@klumbenv.com

CC: kim.pristello@fcc.gov, diane.dupert@fcc.gov

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Cultural Resources Tech Joseph W Jacker Mr - Keweenaw Bay Indian Community - Baraga, MI - electronic mail and regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a

courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

2. SHPO Earle G Shettleworth - Maine Historic Preservation Commission - Augusta, ME - electronic mail

3. Deputy SHPO Kirk F Mohney - Maine Historic Preservation Commission - Augusta, ME - electronic mail

4. Preservation Planner Emily Paulus - NH Division of Historical Resources - Concord, NH - electronic mail

"Exclusions" above set forth language provided by the Tribe, NHO, or SHPO. These exclusions may indicate types of tower notifications that the Tribe, NHO, or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, and SHPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, or SHPO. Exclusions may also set forth policies or procedures of a particular Tribe, NHO, or SHPO (for example, types of information that a Tribe routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 06/03/2009
Notification ID: 52374
Tower Owner Individual or Entity Name: US Cellular
Consultant Name: Audra Klumb
Street Address: 34 Centennial Drive
City: Webster
State: NEW HAMPSHIRE
Zip Code: 03303
Phone: 603-746-5065
Email: klumbenvironmental@klumbenv.com

Structure Type: POLE - Any type of Pole
Latitude: 43 deg 56 min 37.7 sec N
Longitude: 70 deg 25 min 57.9 sec W
Location Description: 19 Farm Road
City: Raymond
State: MAINE
County: CUMBERLAND
Ground Elevation: 237.9 meters
Support Structure: 38.1 meters above ground level
Overall Structure: 38.1 meters above ground level
Overall Height AMSL: 276.0 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Subject: Reply to Proposed Tower Structure (Notification ID #52374) - Email ID #2225730

From: towernotifyinfo@fcc.gov

Date: Mon, 22 Jun 2009 16:43:36 -0400 (EDT)

To: klumbenvironmental@klumbenv.com

CC: towernotifyinfo@fcc.gov, joe@kbic-nsn.gov

Dear Audra Klumb,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Cultural Resources Tech Joseph W Jacker Mr of the Keweenaw Bay Indian Community in reference to Notification ID #52374:

Aniin (Greetings),

The Keweenaw Bay Indian Community Tribal Historic Preservation Office (KBIC THPO) received your requests for comments or interest concerning the National Historic Preservation Act, Section 106 review and comment to the effect on historic and cultural sites within your proposed project area. The KBIC Tribal Historic Preservation Office has no interests regarding religious or cultural sites documented at this time in your proposed location.

It is the KBIC THPO's belief that many prehistoric sites and Indian historic sites within historic home territories have not yet been identified or documented. KBIC is among the many Indian Tribes initiating the process of assisting in this endeavor. KBIC urges you to consult other Indian Tribes in your immediate area that may have documented interests in your project site, if you have not already done so.

If the scope of work changes in any way, or if artifacts or human remains are discovered, please notify the KBIC THPO immediately so we can assist in making an appropriate determination.

Please forward any future request for review of historic and cultural properties pursuant to the National Historic Preservation Act Section 106 to the Tribal Historic Preservation Office or through email at thpo@kbic-nsn.gov and keep us informed of future projects as we continue our efforts to identify and document historic, archaeological and traditional cultural sites in the area.

Please update your contact information to reflect the change in mailing address.

Miigwech (Thank you),

Joseph Jacker, Cultural Resources Technician
Keweenaw Bay Indian Community
Tribal Historic Preservation Office
16429 Beartown Road
Baraga, Michigan 49908
906-353-6272
Email thpo@kbic-nsn.gov

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 06/03/2009
Notification ID: 52374
Tower Owner Individual or Entity Name: US Cellular
Consultant Name: Audra Klumb
Street Address: 34 Centennial Drive
City: Webster
State: NEW HAMPSHIRE
Zip Code: 03303
Phone: 603-746-5065
Email: klumbenvironmental@klumbenv.com

Structure Type: POLE - Any type of Pole
Latitude: 43 deg 56 min 37.7 sec N
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Location Description: 19 Farm Road
City: Raymond
State: MAINE
County: CUMBERLAND
Ground Elevation: 237.9 meters
Support Structure: 38.1 meters above ground level
Overall Structure: 38.1 meters above ground level
Overall Height AMSL: 276.0 meters above mean sea level

APPENDIX D
ARCHAEOLOGY REPORT





New England Archaeology Company, LLC
Brian Valimont, MA

Proposed Raymond cell tower (#853462)
19 Farm Road, Raymond, Maine

This project consists of the construction of a new cell tower and associated facility including 100' x100' fenced compound, equipment shelter, gravel parking area, erosion controls and gravel access road on rural property (Figures 1-2C; Photos 4 thru 8). Pursuant to FCC regulations under the FCC programmatic agreement, Phase I archaeological assessment was undertaken by archaeologist Brian Valimont in July of 2009. Walkover field inspection of the project area was conducted. No Native American or historic archaeological sites were encountered within or adjacent to the project area during this inspection. A single historic period burial has been identified adjacent to the project area and is discussed in more detail below. This historic burial will not be affected by the proposed construction of the Raymond cell tower.

Environment

Bedrock - The project is underlain by bedrock of the Sebago pluton (Figure 3). The Sebago pluton consists of granite that is composed of biotite, muscovite and garnet (Berry and Hussey 1998). A batholith is formed from a large amount of magma that rises close to the earth's surface, intrudes the cracks and fissures of rocks that are located where it rises and then cools and solidifies into granite or diorite. The granite of the Sebago pluton formed during the Carboniferous period about 354 million years ago. Since that time the overlying rocks and sediments have eroded and partially exposed the granite as outcrops, hills and mountains. The Sebago pluton underlies a very large area extending from Sebago Lake and Pownal, ME west to the Ossipee Mountains of New Hampshire (Hussey 1981). The bedrock is occasionally visible at the ground surface within or adjacent to the project area where it is not covered over by glacial till deposits.

Surficial - The last glacial advance occurred between 17,000 and 25,000 years ago. A warmer global climate caused the glacier to begin to shrink in size, and withdraw back to the arctic. As the glacier withdrew it dropped the large quantities of scoured rock and soil (Retelle 1997). These deposits are known as glacial till and in the vicinity of the project area. Glacial till is readily recognizable in the New England landscape as rock-strewn fields or forests. Oftentimes, these rocks were removed to create fields and were piled into the numerous stone walls that are visible throughout New England. Glacial till covers much of the hilly area surrounding the project area, and is labeled as "Pt" on the surficial maps of Figure 3. The glacial till here is often very thin and the underlying bedrock is evident at or near the ground surface.



New England Archaeology Company, LLC
Brian Valimont, MA

Soils – Once glacial activity ceased soils began to form at the ground surface (Hedstrom 1974). Soils in the project area are primarily classified as two types: Somewhat excessively drained Hollis fine sandy loam and moderately well drained Woodbridge very stony fine sandy loam (Figure 3).

Potential for Archaeological Sites

Prehistoric - Based on predictive models for the presence of Native American archaeological sites, there is a low probability that such sites would be located in the project area. The project area is not close to sources of perennial fresh water. The project area is located significant distances from permanent streams, large wetlands, ponds and lakes. The soils in the project area are well drained, but are often thin and stony and are formed upon glacial till. While granite was occasionally used by Native Americans for ground stone tools there is no evidence of prehistoric granite quarrying at or near the project area. No outcrops of stone such as chert, rhyolite and quartz are present that were of significant economic importance to past Native Americans.

Historic – Cumberland County was separated from York County in 1760. Early settlers of Raymond arrived in 1770 in a region that was very sparsely settled. Raymond was incorporated a town in 1803 in the District of Maine of the Commonwealth of Massachusetts. Maine was established as a separate state in 1820. With an economy based on farming and lumber Raymond grew rapidly during the early decades. A section of Raymond was added to Naples in 1829. The western half of town was separated as the town of Casco in 1841. A few tracts of Gray (1859), Standish and Standish Cape (1869) were later added. A gold mine was also historically operated at the intersection of Valley and Raymond Hill Roads (Knight 1974).

The project area is located on Raymond Hill, a historic rural neighborhood of farmsteads (Figure 1). An 1871 map of Raymond depicts several historic farmsteads located along Farm, Raymond Hill and Valley Roads (Figure 3: Beers 1871). The Raymond Hill neighborhood historically consisted of a schoolhouse, Baptist Church (1834) with cemetery and several farmsteads spaced along the side of the roads. The schoolhouse appears to have been located at the intersection of Farm and Valleys Roads. The Raymond Hill community was historically associated with the village of East Raymond located downhill to the south. The cell tower access road is proposed to be placed along the edges of historic pastures (Figures 2A-2C). The construction follows along stone walls marking the edges of historic farm fields (Photos 7 and 8).



New England Archaeology Company, LLC
Brian Valimont, MA

According to current owner Mike Major, one of the historic owners of the farm was the Clay family which merged this farm property with their larger farm on Raymond Hill. The farmstead on the project area property has been a horse and cattle farm since at least the early 1960's. In 1974, Roy Ranger's family ceased ownership of the farm. All of the buildings associated with this farmstead were burned down and were rebuilt in 1981. The project area was field inspected in July of 2009. No obvious indications of historic archaeological resources such as cellar holes, stone foundations and refuse dumps were encountered in or near the project area.

A single historic burial has been identified adjacent to the project area (Photos 1 thru 4, Figure 2C). The location of this burial was identified by town historian Ernest Knight. Knight identified the burial site with the previous landowner while researching his town history. The previous landowner notified the present landowner Mike Major of the burials' location when Major purchased the property. One of Knight's town histories identifies this spot as the burial site of Thomas Crisp (Knight 1978). Knight found references to Crisp's burial in surviving town records. The references are quite vague indicating that Crisp "...was buried in the woods across from the Baptist cemetery..." This indicates a very vague, rather large area (Figure 1).

Thomas Crisp was born August 16, 1780. He married twice: Katherine Welch of Windham (where they both lived) June 24, 1793 and then married Hannah Brown of Gray (where they both lived) on April 10, 1803. Surviving town records indicate that Thomas Crisp is buried in a private grave site on Raymond Hill in the woods across from the Baptist Church (Taylor 2007: 69). None of the records indicate the date of his death. It is unclear why Crisp was reportedly buried here and not in one of the town cemeteries. There is no evidence to indicate that Crisp had an ethnic background (such as black or Indian) that might explain his individual, isolated burial. The identification of this location as Thomas Crisp's burial site is not definitive; there is no definite evidence that this location is the burial site. However, the burial site identification does appear to have some credibility.



New England Archaeology Company, LLC
Brian Valimont, MA

Subsurface Investigation

In order to determine if any archaeological sites were present in the proposed cell tower compound area, subsurface archaeological investigation was undertaken at the project area. This consisted of the excavation of 2 archaeological shovel test pits (Figure 4). The STP's measured 50 by 50 cm square and the soil of each STP was screened through ¼" mesh screen to facilitate the recovery and identification of cultural artifacts. The relationship of soil strata as well as the depths of strata, soil color, soil texture, percent and type of rock inclusions was recorded in a field notebook. Upon completion of recording each STP the soil was backfilled. STP 1 was excavated to 40 centimeters (16 inches) deep and STP 2 was excavated to 18 centimeters (7 inches) deep. Solid rock was encountered at the base of STP 2. The excavation of the STP's verified that the soil in the project area consists of rocky glacial till with 5-10% gravel. The soil profile exposed by the excavated shovel tests is consistent, the principle variable being the relative thickness of the strata. In general, there were three strata:

- A naturally developing A horizon extended from the ground surface to an average 15 centimeters (6 inches) in depth. The very thin depth of this A horizon indicates that historic plowing of the project area has not occurred. The historical usage of the project area was most likely for animal pasture and woodlot. The A horizon consisted of dark brown colored (10 YR 3/3) loam.
- Underlying this was a B horizon to an average depth of 21 centimeters (8 inches). This B horizon was typically yellowish brown colored (10 YR 5/6) sandy loam.
- Underlying this was a C horizon which extended to an undetermined depth. The C horizon was typically light olive brown colored (2.5 Y 5/4) sandy loam.

No Native American or historic artifacts were recovered from the two STP's.



New England Archaeology Company, LLC
Brian Valimont, MA

Recommendations

There appears to be low archaeological site potential for both prehistoric and historic archaeological resources within the project area. During walkover field inspection in July 2009, no Native American or historic cultural artifacts or features were encountered within or adjacent to the project area. An individual burial site of early historic settler Thomas Crisp has been preliminarily identified near the project area. The location of the burial site was identified by town historian Ernest Knight and appears to be credible. The burial site will not be impacted by the proposed Raymond cell tower construction. This archaeological assessment indicates that no archaeological resources will be impacted by the proposed construction of the Raymond cell tower facilities.

Brian Valimont

Brian Valimont, MA
Principal Investigator
New England Archaeology Company, LLC



New England Archaeology Company, LLC
Brian Valimont, MA

References

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1871 *Atlas of Cumberland County, Maine*. F.W. Beers and Co., New York. Reprinted in 1979 by Saco Valley Printing, Fryeburg, ME.

Berry, Henry N. IV and Arthur M. Hussey II

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Hedstrom, Gary

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Hussey, Arthur M. II

1981 Bedrock Geology of the Lower Androscoggin Valley – Casco Bay Area, Maine. Open File Report and Map No. 81-29. The Maine Department of Conservation, Maine Geological Survey, Augusta.

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1974 Early History of Raymondtown, Maine. Oxford Press.

1978 Raymond Then and Now. Raymond Women's Club.

Retelle, Michael J.

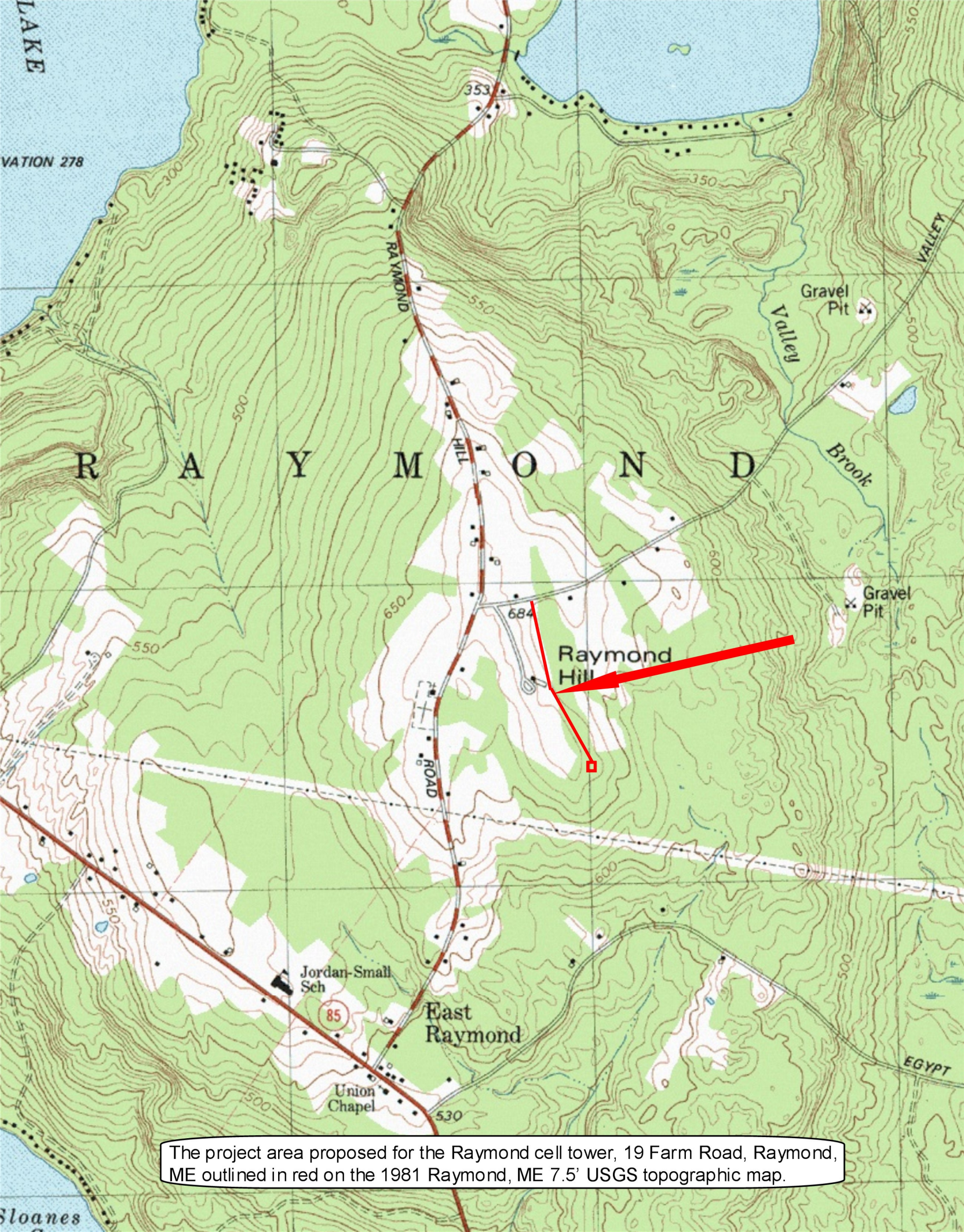
1997 Surficial Geology, Raymond Quadrangle, Maine. Open File No. 97-57, Department of Conservation, Maine Geological Survey, Augusta.

Taylor, Robert L.

2007 Early Families of Raymond, Maine. Heritage Books, Westminster, MD.

United States Geological Survey

1981 Raymond, Maine 7.5' Topographic Quadrangle.



The project area proposed for the Raymond cell tower, 19 Farm Road, Raymond, ME outlined in red on the 1981 Raymond, ME 7.5' USGS topographic map.

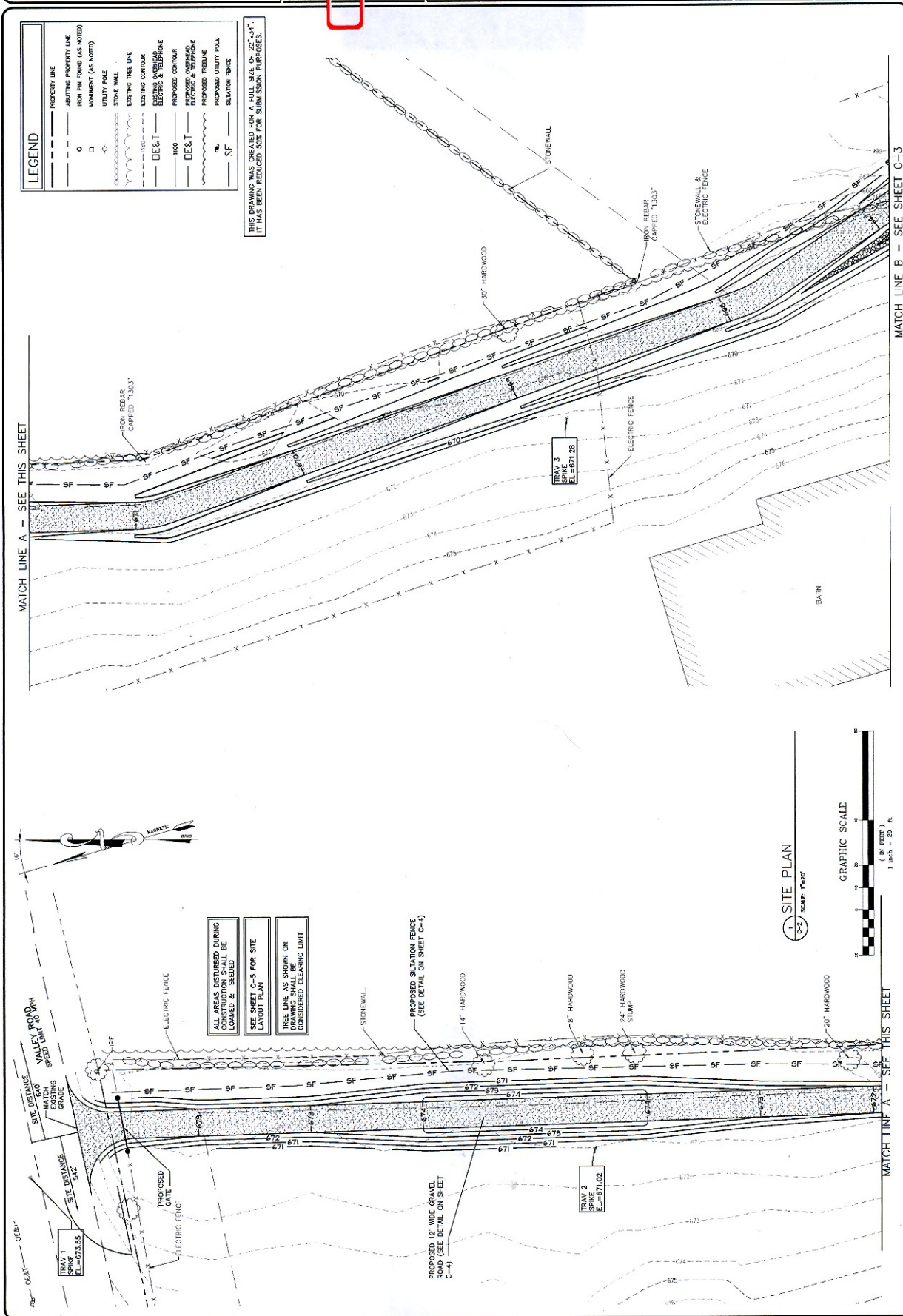


Figure 2A - The proposed Raymond cell tower.

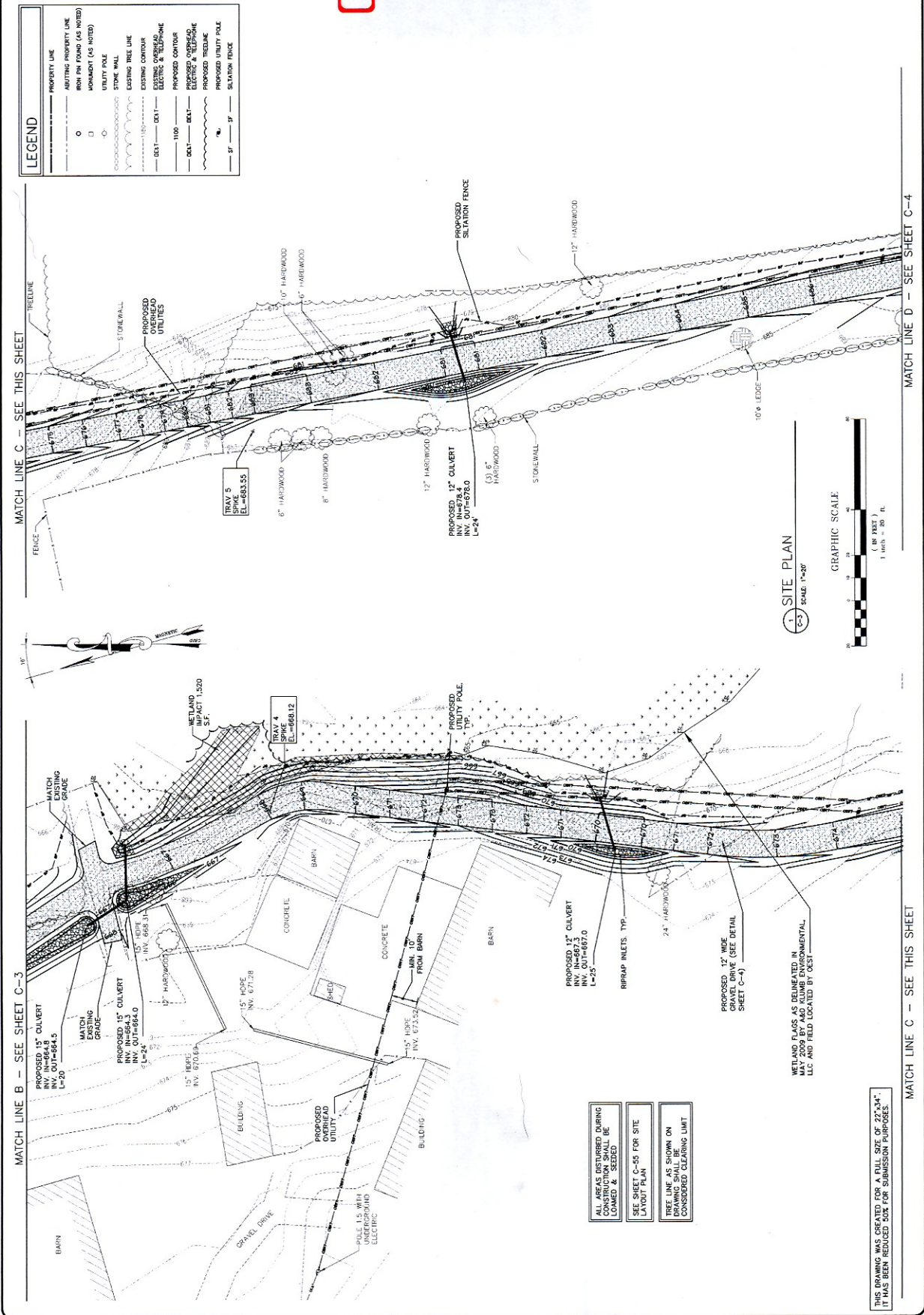
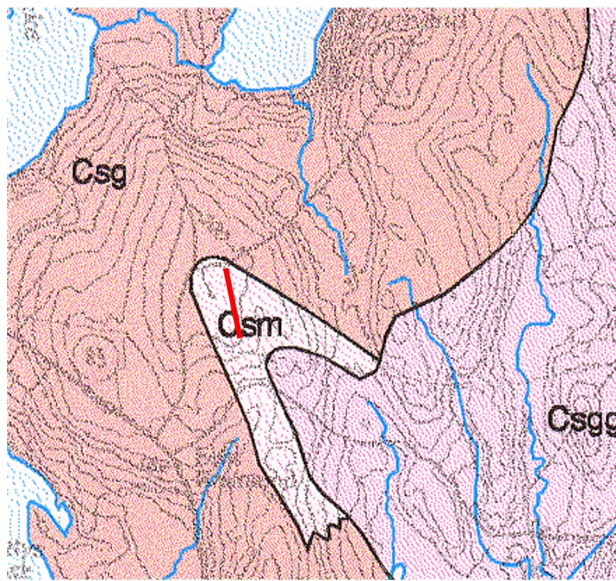
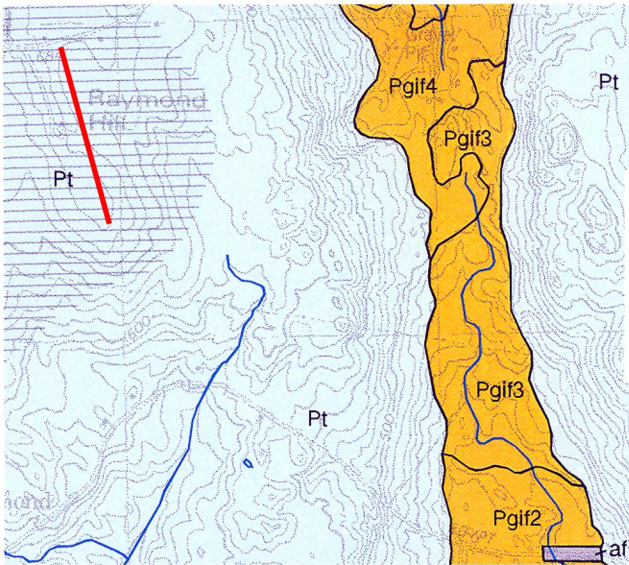


Figure 2B - The proposed Raymond cell tower.



Sebago Pluton

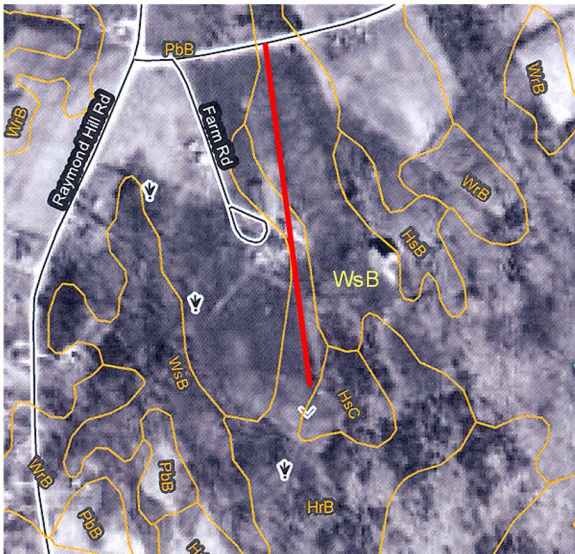
Csg	Muscovite-biotite granite.
Csb	Biotite granite, non-foliated
Csbf	Biotite granite, foliated.
Csgg	Muscovite-garnet granite.
Csx	Mixed muscovite-garnet and muscovite-biotite granites.
Csm	Migmatitic muscovite-biotite granite.
Csgr	Riebeckite-bearing granite (near Rattlesnake Mountain).



Till - Poorly sorted mixture of gravel, sand, silt, and clay deposited directly by the action of glacier ice.



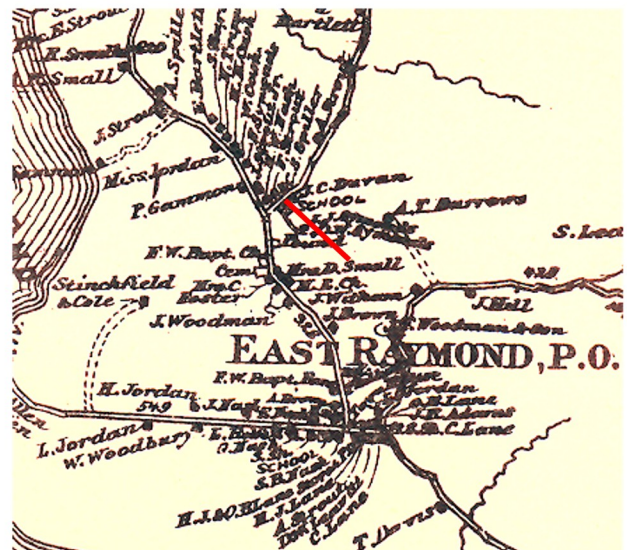
Bedrock - Gray dots indicate individual outcrops of ledge exposed at the surface. Horizontal ruled pattern indicates areas where bedrock is covered by a thin veneer of drift.



Soil Types

HrB: Hollis fine sandy loam, 3-8% slopes, shallow, somewhat excessively drained, formed in glacial till.

WsB: Woodbridge very stony fine sandy loam, 0-8% slopes, deep, moderately well drained, formed in firm stony glacial till.



Raymond 1871

Figure 3 - Environmental data and historic map. The project area is outlined approximately in red.

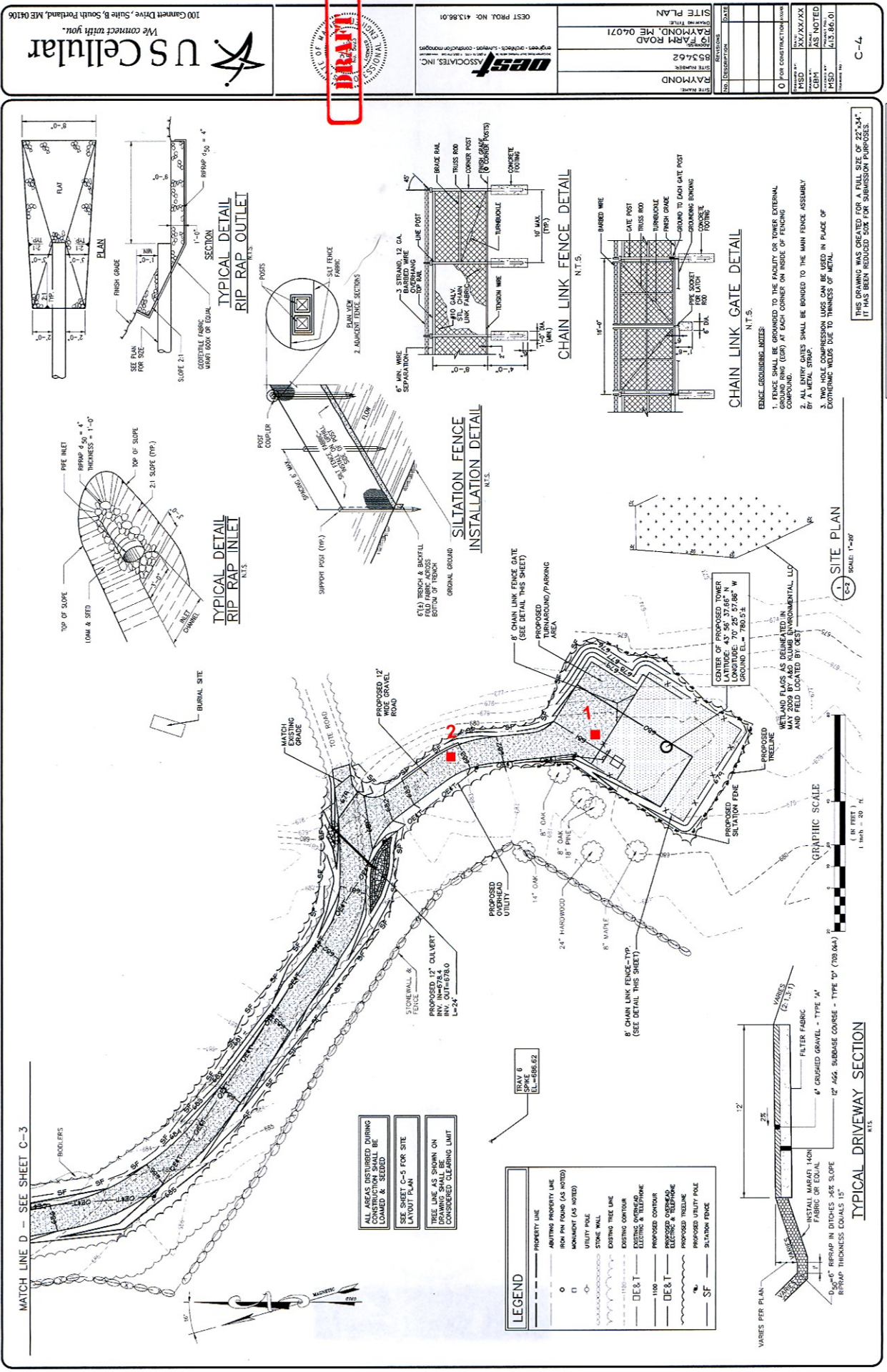


Figure 4 - Plan of archaeological shovel test pits excavated at the project area.



Photos 1 & 2: The reported location of Thomas Crisp's burial.



Photos 3 & 4" Side views of the location identified as the Thomas Crisp burial site.



Photo 5: Proposed Raymond cell tower project area at southern end where dirt road enters woods. A pile of stones removed from the field is present here.



Photo 6: Last section of dirt road proposed for gravel access road to cell tower compound.



Photo 7: Edge of pasture proposed for Raymond cell tower access road, viewed north.



Photo 8: View of 1981 barn at center of project area.

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB

3060-1039

Estimated Time Per Response:

.5 to 10 hours

Applicant's Determination of Effects for Archaeology:

**It is the opinion of the Secretary of the Interior Qualified Archaeologist(s) Principal Investigator that the proposed installation is likely to have the following effect on known archaeological resources:

a. Direct Effects (check one):

- i. ☒ No Historic Properties in Area of Potential Effects ("APE") for direct effects;
- ii. ☐ "No effect" on Historic Properties in APE for direct effects;
- iii. ☐ "No adverse effect" on Historic Properties in APE for direct effects;
- iv. ☐ "Adverse effect" on one or more Historic Properties in APE for direct effects.
- ☐ Although no known archaeological resources have been recorded in the APE for direct effects further work is recommended based upon the potential for archaeological resources to exist;
- ☒ Further work not recommended.

Certification and Signature for Representations Made by Brian Valimont, Principal Investigator

I certify that all representations on the attached report prepared by Brian Valimont, Principal Investigator of New England Archaeology Company, LLC and the accompanying attachments are true, correct, and complete.

Brian Valimont
Signature

July 13, 2009

Date

Brian Valimont
Printed Name

Principal Investigator
Title

Applicant's Name: _____
Project Name: Raymond cell tower, Raymond, ME
Project Number: _____

APPENDIX E
EDR NEPA Check Database Report



Raymond (Raymond, ME)

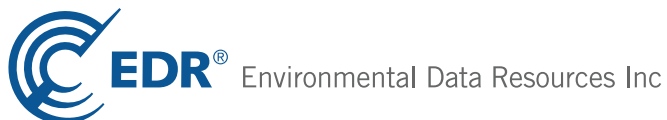
19 Farm Road

Raymond, ME 04071

Inquiry Number: 2573431.2s

August 25, 2009

EDR NEPACheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Map Findings Summary.....	2
Natural Areas.....	3
Historic Sites.....	6
Flood Plain.....	9
Wetlands.....	11
Wetlands Classification System.....	18
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Key Contacts and Government Records Searched.....	27

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR NEPACheck® DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPACheck provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

Section

Regulation

Natural Areas Map

- Federal Lands Data:

- Officially designated wilderness areas
- Officially designated wildlife preserves, sanctuaries and refuges
- Wild and scenic rivers
- Fish and Wildlife

47 CFR 1.1307(1)

47 CFR 1.1307(2)

- Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available)

40 CFR 6.302(e)

40 CFR 6.302

47 CFR 1.1307(3); 40 CFR 6.302

Historic Sites Map

- National Register of Historic Places
- State Historic Places (where available)
- Indian Reservations

47 CFR 1.1307(4); 40 CFR 6.302

Flood Plain Map

- National Flood Plain Data (where available)

47 CFR 1.1307(6); 40 CFR 6.302

Wetlands Map

- National Wetlands Inventory Data (where available)

47 CFR 1.1307(7); 40 CFR 6.302

FCC & FAA Map

- FCC antenna/tower sites, AM Radio Towers, FAA Markings and Obstructions, AM Radio Interference Zones, Airports, Topographic gradient

47 CFR 1.1307(8)

Key Contacts and Government Records Searched

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 27 of this report.

TARGET PROPERTY ADDRESS

RAYMOND (RAYMOND, ME)
19 FARM ROAD
RAYMOND, ME 04071

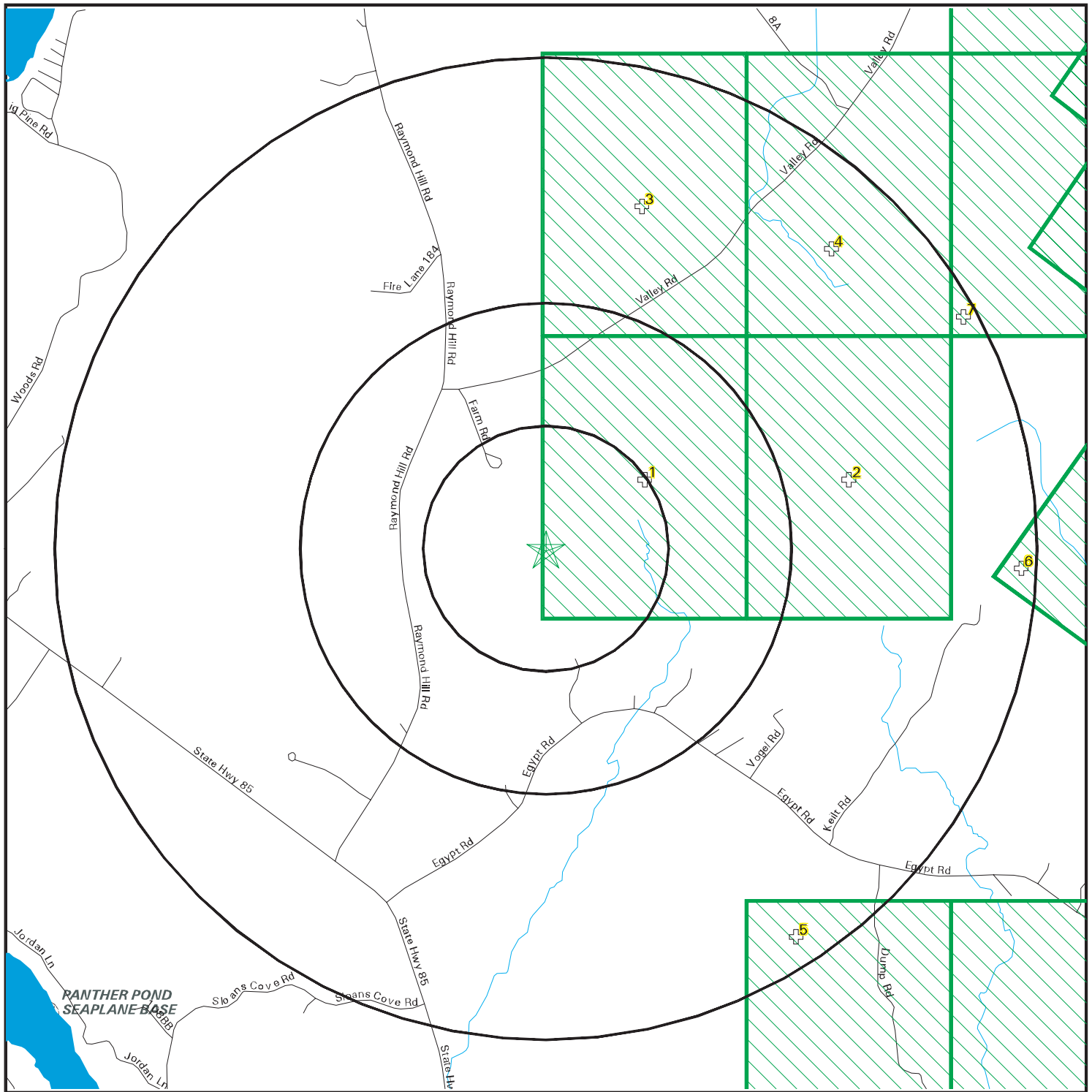
Inquiry #: 2573431.2s
Date: 8/25/9

TARGET PROPERTY COORDINATES

Latitude (North): 43.943802 - 43° 56' 37.7"
Longitude (West): 70.432701 - 70° 25' 57.7"
Universal Tranverse Mercator: Zone 19
UTM X (Meters): 385022.4
UTM Y (Meters): 4866412.5

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
NATURAL AREAS MAP				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	ME Park and Conservation	1.00	YES	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	ME Endangered Species	1.00	YES	YES
1.1307a (3) Threatened or Endangered Species or Critical Habitat	County Endangered Species	County	YES	N/A
HISTORIC SITES MAP				
1.1307a (4) Listed or eligible for National Register	National Register Hist. Places	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	ME Historic Sites	1.00	NO	NO
	Indian Reservation	1.00	NO	NO
	APPAL_TRAIL	1.00	NO	NO
FLOODPLAIN MAP				
1.1307 (6) Located in a Flood Plain	FLOODPLAIN	1.00	NO	NO
WETLANDS MAP				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	NO
FCC & FAA SITES MAP				
	FCC Cellular	1.00	NO	NO
	FCC Antenna	1.00	NO	NO
	FCC Tower	1.00	NO	NO
	FCC AM Tower	1.00	NO	NO
	FAA DOF	1.00	NO	NO
	Airports	1.00	YES	---
	Power Lines	1.00	NO	---

Natural Areas Map



- | | |
|-------------------|---------------------------|
| ★ Target Property | ⊕ Locations |
| ≡ Roads | ▨ Federal Areas |
| ≡ County Boundary | ≡ Federal Linear Features |
| ≡ Waterways | ▨ State Areas |
| ■ Water | ≡ State Linear Features |
| ✈ Airports | |



SITE NAME: Raymond (Raymond, ME)
ADDRESS: 19 Farm Road
 Raymond ME 04071
LAT/LONG: 43.9438 / 70.4327

CLIENT: A & D Klumb Environmental LLC
CONTACT: Audra Klumb
INQUIRY #: 2573431.2s
DATE: August 25, 2009

TC2573431.2s Page 3 of 33

NATURAL AREAS MAP FINDINGS

Endangered Species Listed for: CUMBERLAND County, ME.

Source: EPA Endangered Species Protection Program Database

BIRD: EAGLE, BALD
 BIRD: PLOVER, PIPING
 FISH: STURGEON, SHORTNOSE
 PLANT: POGONIA, SMALL WHORLED

Map ID Direction Distance Distance (ft.)			EDR ID Database
1 North 0-1/8 mi 0	Text:	No text detail is available for this database.	13660 ME Endangered Species
2 East 1/4-1/2 mi 2159	Text:	No text detail is available for this database.	13661 ME Endangered Species
3 North 1/4-1/2 mi 2286	Text:	No text detail is available for this database.	13917 ME Endangered Species
4 NE 1/2-1 mi 3145	Text:	No text detail is available for this database.	13918 ME Endangered Species
5 SSE 1/2-1 mi 4359	Text:	No text detail is available for this database.	13120 ME Endangered Species
6 East 1/2-1 mi 4823	Parcel Name: Is Conservation Land?: USGS 1:250,000: USGS 1:100,000: Primary Owner: Secondary Owner: Third Owner: Fee Status: Is Point Data?: Kelly Code: Kelly Acres: Polygon Code: Coastal Island Registry Number:	MORGAN MEADOW WMA is a public or private natural resource conservation area PORTLD PORTLD State Maine Department of Inland Fisheries and Wildlife Maine Department of Inland Fisheries and Wildlife Fee title ownership Feature identifies location of parcel represented by polygon 10 1072 10y - Unknown code Not reported	ME10002598 ME Park and Conservation

NATURAL AREAS MAP FINDINGS

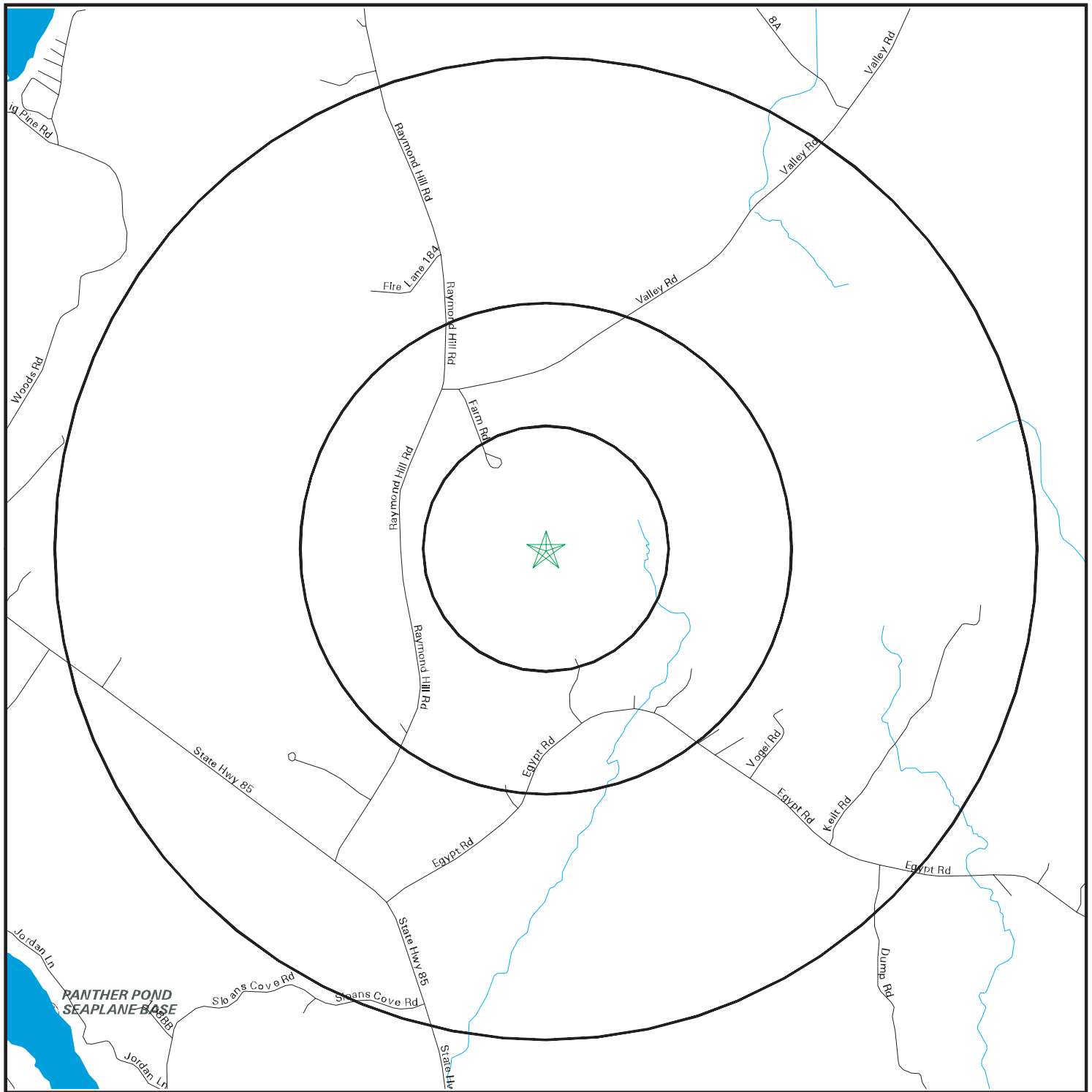
7
ENE
1/2-1 mi
4917

Text:

No text detail is available for this database.

13919
ME Endangered Species

Historic Sites Map



- | | |
|-------------------|--------------------------|
| ★ Target Property | ◆ Historic Sites |
| ≡ Streets | ▨ Federal Historic Areas |
| ≡ County Boundary | ▨ State Historic Areas |
| ≡ Waterways | ▨ US Indian Reservations |
| ■ Water | ≡ Scenic Trail |
| ✈ Airports | |



SITE NAME: Raymond (Raymond, ME)
ADDRESS: 19 Farm Road
 Raymond ME 04071
LAT/LONG: 43.9438 / 70.4327

CLIENT: A & D Klumb Environmental LLC
CONTACT: Audra Klumb
INQUIRY #: 2573431.2s
DATE: August 25, 2009

TC2573431.2s Page 6 of 33

HISTORIC SITES MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

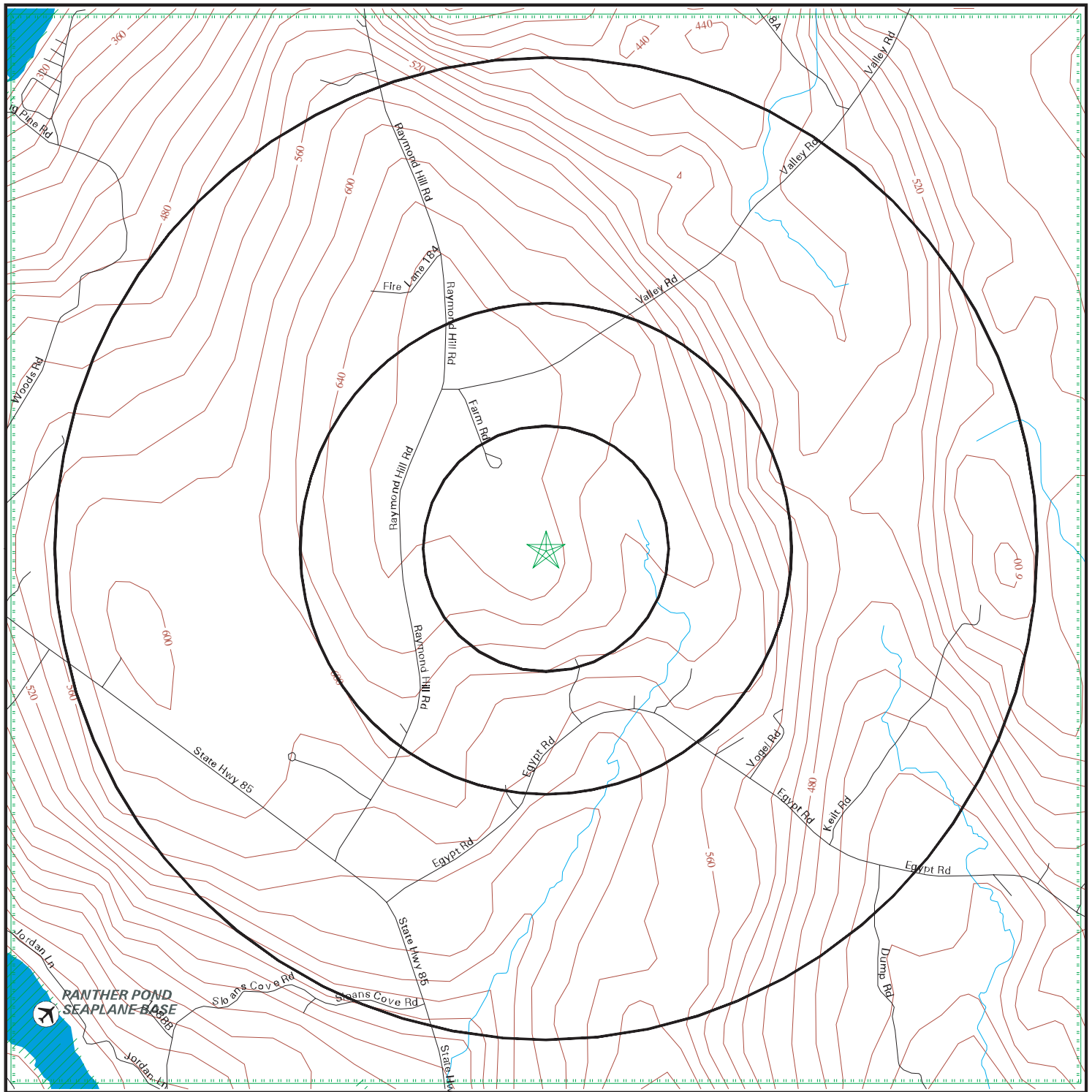
UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Name:	HAWTHORNE, NATHANIEL, BOYHOOD HOME	Unmappable
Address:	HAWTHORNE & RAYMOND CAPE ROADS	ME10001136
City:	RAYMOND	ME Historic Sites
County:	CUMBERLAND COUNTY	
Date Added:	12/02/1969	
NR Status:	Not reported	

Flood Plain Map



- | | | | | | |
|--|-----------------|--|--------------------------------|--|------------------------------------|
| | Major Roads | | Power Lines | | Water |
| | Contour Lines | | Pipe Lines | | 100-year flood zone |
| | Waterways | | Fault Lines | | 500-year flood zone |
| | County Boundary | | Electronic FEMA data available | | Electronic FEMA data not available |
| | Airports | | | | |

SITE NAME: Raymond (Raymond, ME)
 ADDRESS: 19 Farm Road
 Raymond ME 04071
 LAT/LONG: 43.9438 / 70.4327

CLIENT: A & D Klumb Environmental LLC
 CONTACT: Audra Klumb
 INQUIRY #: 2573431.2s
 DATE: August 25, 2009

TC2573431.2s Page 9 of 33

FLOOD PLAIN MAP FINDINGS

Source: FEMA Q3 Flood Data

County

FEMA flood data electronic coverage

CUMBERLAND, ME

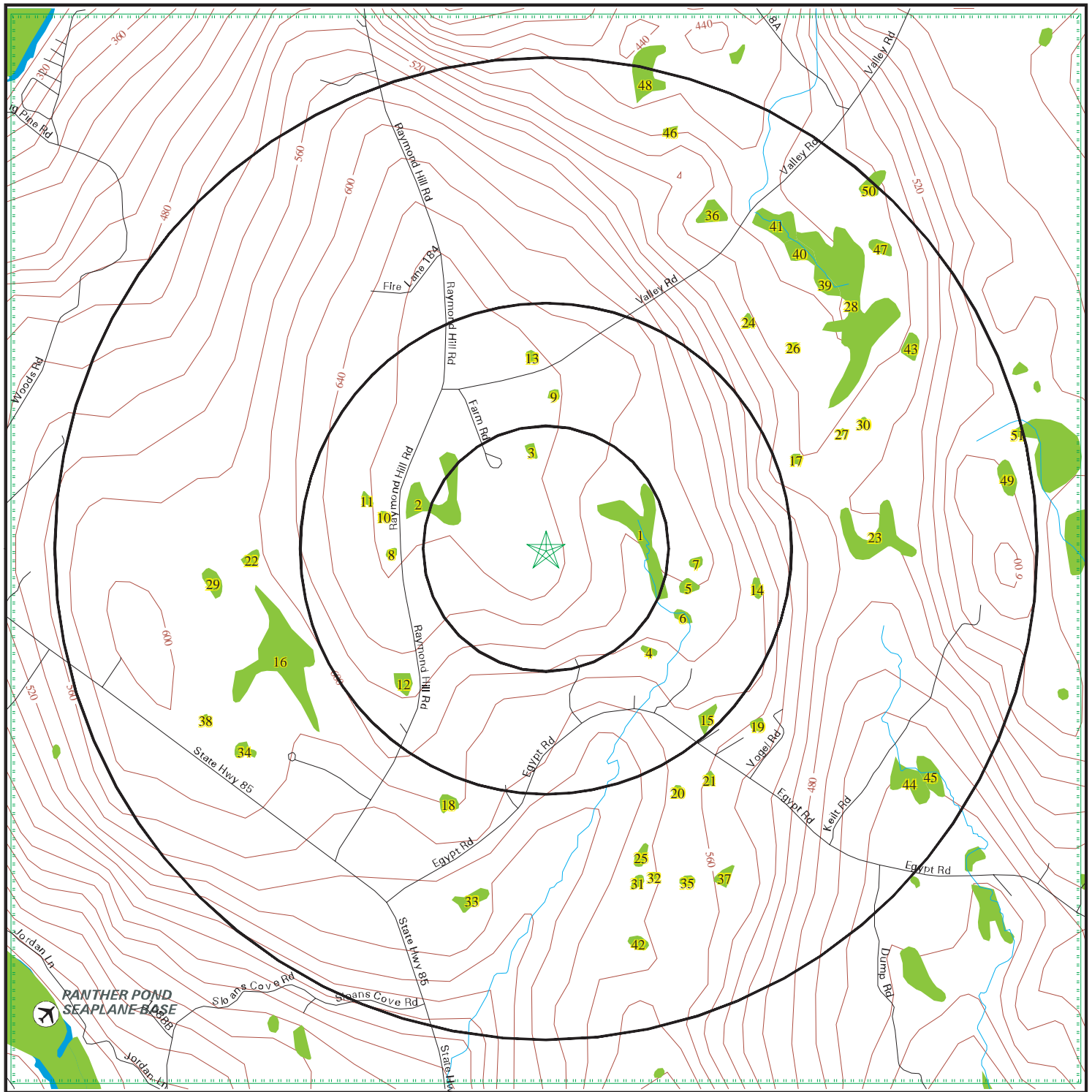
YES

Flood Plain panel at target property:

2302050010B

Additional Flood Plain panel(s) in search area:
2302050015B

National Wetlands Inventory Map



- | | | | | | |
|--|-----------------|--|-------------|--|-----------------------------------|
| | Major Roads | | Power Lines | | Water |
| | Contour Lines | | Pipe Lines | | National Wetland Inventory |
| | Waterways | | Fault Lines | | State Wetlands |
| | County Boundary | | | | Electronic NWI data available |
| | Airports | | | | Electronic NWI data not available |

SITE NAME: Raymond (Raymond, ME)
ADDRESS: 19 Farm Road
 Raymond ME 04071
LAT/LONG: 43.9438 / 70.4327

CLIENT: A & D Klumb Environmental LLC
CONTACT: Audra Klumb
INQUIRY #: 2573431.2s
DATE: August 25, 2009

TC2573431.2s Page 11 of 33

WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Raymond

Additional NWI hardcopy map(s) in search area:

Not reported in source data

Map ID

Direction

Distance

Distance (ft.)

Code and Description*

Database

1	PFO1E		NWI
NE	[P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/8-1/4 mi	Flooded/Saturated		
690			
2	PFO1E		NWI
WNW	[P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/8-1/4 mi	Flooded/Saturated		
958			
3	PEM1E		NWI
North	[P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated		
1/8-1/4 mi			
971			
4	PFO1E		NWI
SE	[P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/4-1/2 mi	Flooded/Saturated		
1469			
5	PSS1E		NWI
ESE	[P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/4-1/2 mi	Flooded/Saturated		
1486			
6	PSS1E		NWI
ESE	[P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/4-1/2 mi	Flooded/Saturated		
1534			
7	PSS1E		NWI
East	[P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally		
1/4-1/2 mi	Flooded/Saturated		
1545			
8	PUBHx		NWI
West	[P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated		
1/4-1/2 mi			
1594			
9	PEM1E		NWI
North	[P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated		
1/4-1/2 mi			
1603			

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
10 West 1/4-1/2 mi 1726	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated	NWI
11 WNW 1/4-1/2 mi 1917	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated	NWI
12 SW 1/4-1/2 mi 1980	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
13 North 1/4-1/2 mi 2009	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated	NWI
14 East 1/4-1/2 mi 2251	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded	NWI
15 SE 1/4-1/2 mi 2427	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
16 WSW 1/2-1 mi 2729	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
17 ENE 1/2-1 mi 2794	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated	NWI
18 SSW 1/2-1 mi 2845	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
19 SE 1/2-1 mi 2882	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
20 SSE 1/2-1 mi 2897	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded	NWI
21 SE 1/2-1 mi 2963	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
22 West 1/2-1 mi 3077	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
23 East 1/2-1 mi 3178	PSS4E [P] Palustrine, [SS] Scrub-Shrub, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
24 NE 1/2-1 mi 3209	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated	NWI
25 SSE 1/2-1 mi 3342	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
26 NE 1/2-1 mi 3371	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated	NWI
27 ENE 1/2-1 mi 3377	PUBF [P] Palustrine, [UB] Unconsolidated Bottom, [F] Semipermanently Flooded	NWI
28 ENE 1/2-1 mi 3387	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
29 West 1/2-1 mi 3500	PSS4E [P] Palustrine, [SS] Scrub-Shrub, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
30 ENE 1/2-1 mi 3626	PUBF [P] Palustrine, [UB] Unconsolidated Bottom, [F] Semipermanently Flooded	NWI
31 SSE 1/2-1 mi 3645	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
32 SSE 1/2-1 mi 3658	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
33 South 1/2-1 mi 3706	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
34 SW 1/2-1 mi 3798	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated	NWI
35 SSE 1/2-1 mi 3818	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
36 NNE 1/2-1 mi 3861	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
37 SSE 1/2-1 mi 3938	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
38 WSW 1/2-1 mi 4046	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated	NWI
39 NE 1/2-1 mi 4046	PFO1E [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
40 NE 1/2-1 mi 4061	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
41 NNE 1/2-1 mi 4139	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated	NWI
42 SSE 1/2-1 mi 4261	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
43 ENE 1/2-1 mi 4362	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
44 ESE 1/2-1 mi 4369	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
45 ESE 1/2-1 mi 4570	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
46 NNE 1/2-1 mi 4627	PSS1E [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated	NWI
47 NE 1/2-1 mi 4745	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
48 NNE 1/2-1 mi 4886	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI
49 East 1/2-1 mi 4919	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
50 NE 1/2-1 mi 5106	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded	NWI
51 ENE 1/2-1 mi 5174	PFO4E [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [E] Seasonally Flooded/Saturated	NWI

*See Wetland Classification System for additional information.

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- to describe ecological units that have certain homogeneous natural attributes,
- to arrange these units in a system that will aid decisions about resource management,
- to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- class
- subclass
- modifiers

(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

The classification system consists of five systems:

1. marine
2. estuarine
3. riverine
4. lacustrine
5. palustrine

The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.

SYSTEM

MARINE

SUBSYSTEM

1 - SUBTIDAL

2 - INTERTIDAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom	AB-AQUATIC BED	RF-REEF	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm		1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

SYSTEM

E - ESTUARINE

SUBSYSTEM

1 - SUBTIDAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	

SUBSYSTEM

2 - INTERTIDAL

CLASS	AB-AQUATIC BED	RF-REEF	SB - STREAMBED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	SS-SCRUB SHRUB	FO-FORESTED
Subclass	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

SYSTEM

R - RIVERINE

SUBSYSTEM

1 - TIDAL	2 - LOWER PERENNIAL	3 - UPPER PERENNIAL	4 - INTERMITTENT	5 - UNKNOWN PERENNIAL			
RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	*SB-STREAMBED	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	**EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
1 Bedrock	1 Cobble-Gravel	1 Bedrock	1 Algal	1 Bedrock	1 Cobble-Gravel	2 Nonpersistent	
2 Rubble	2 Sand	2 Rubble	2 Aquatic Moss	2 Rubble	2 Sand		
	3 Mud	3 Cobble-Gravel	3 Rooted Vascular		3 Mud		
	4 Organic	4 Sand	4 Floating Vascular		4 Organic		
		5 Mud	5 Unknown Submergent		5 Vegetated		
		6 Organic	6 Unknown Surface				
		7 Vegetated					

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.

**EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM

L - LACUSTRINE

SUBSYSTEM

1 - LIMNETIC

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	

SUBSYSTEM

2 - LITTORAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

SUBSYSTEM

P - PALUSTRINE

CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS- LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown
Bottom									
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6Deciduous 7 Evergreen	

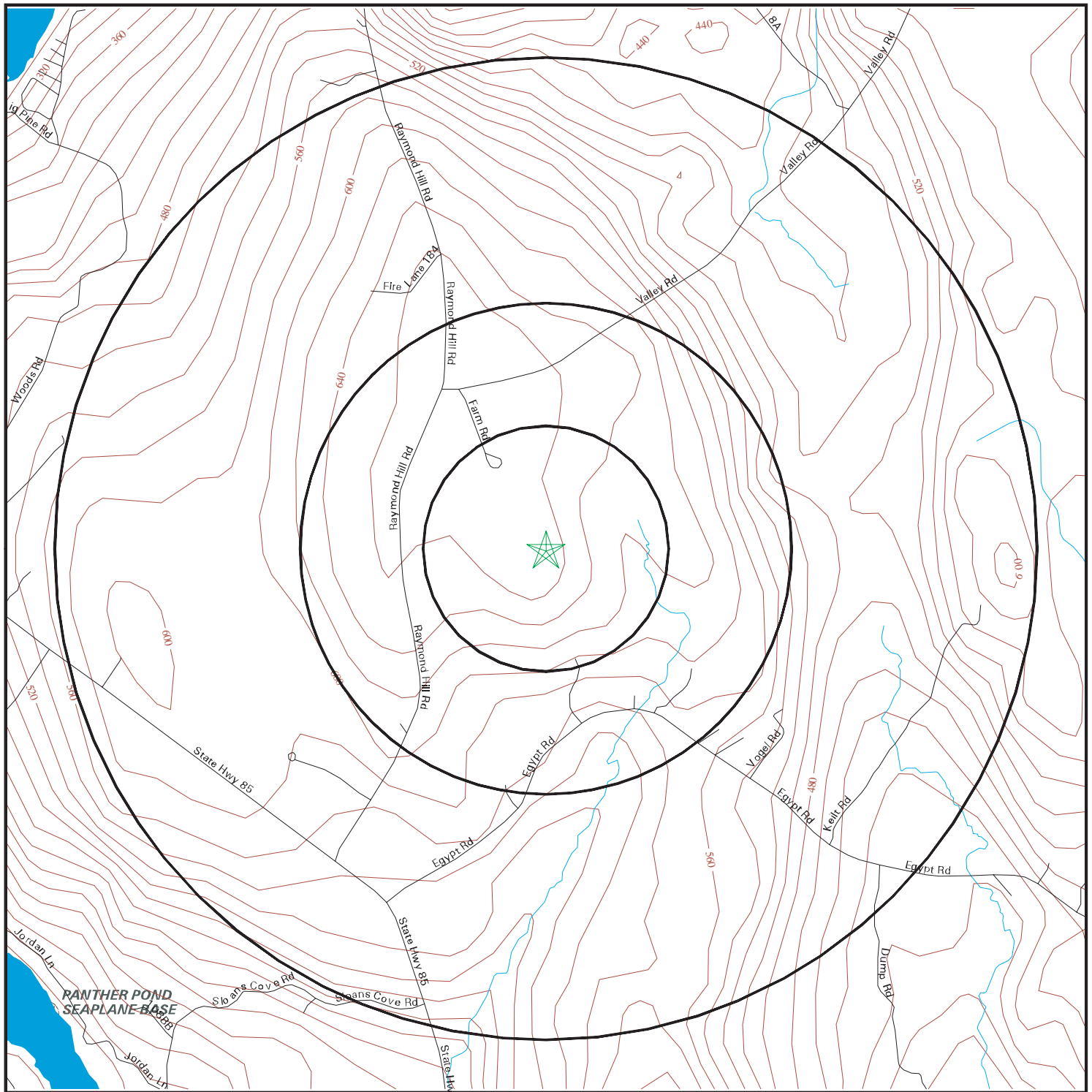
MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal	Halinity	Inland	Salinity	pH	Modifiers	for
A Temporarily Flooded	H Permanently Flooded	K Artificially Flooded	*S Temporary-Tidal	1 Hyperhaline	7 Hypersaline	all Fresh Water		
B Saturated	J Intermittently Flooded	L Subtidal	*R Seasonal-Tidal	2 Euhaline	8 Eusaline	a Acid	g Organic	b Beaver
C Seasonally Flooded	K Artificially Flooded	M Irregularly Exposed	*T Semipermanent -Tidal	3 Mixohaline (Brackish)	9 Mixosaline	t Circumneutral	n Mineral	d Partially Drained/Ditched
D Seasonally Flooded/ Well Drained	W Intermittently Flooded/Temporary	N Regularly Flooded	V Permanent -Tidal	4 Polyhaline	0 Fresh	i Alkaline		f Farmed
E Seasonally Flooded/ Saturated	Y Saturated/Semipermanent/ Seasonal	P Irregularly Flooded	U Unknown	5 Mesohaline				h Diked/Impounded
F Semipermanently Flooded	Z Intermittently Exposed/Permanent	*These water regimes are only used in tidally influenced, freshwater systems.			6 Oligohaline			r Artificial Substrate
G Intermittently Exposed	U Unknown			0 Fresh				s Spoil
								x Excavated

Source: U.S. Department of the Interior
Fish and Wildlife Service
National Wetlands Inventory

FCC & FAA Sites Map



- Streets
- Contour Lines
- County Boundary
- Waterways
- Power Lines
- Water
- Airports
- Sites
- Omni Directional AM Interference
- Directional AM Interference



SITE NAME: Raymond (Raymond, ME)
 ADDRESS: 19 Farm Road
 Raymond ME 04071
 LAT/LONG: 43.9438 / 70.4327

CLIENT: A & D Klumb Environmental LLC
 CONTACT: Audra Klumb
 INQUIRY #: 2573431.2s
 DATE: August 25, 2009

TC2573431.2s Page 22 of 33

FCC & FAA SITES MAP FINDINGS TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

No Sites Reported.

FCC & FAA SITES MAP FINDINGS

AIRPORTS

EDR ID
Database

AIR08232
AIRPORTS

Site Number: 08233.1*C
 Airport Type: SEAPLANE BASE
 County: CUMBERLAND
 Facility Name: PANTHER POND
 Use: PR
 Owner Address: BOX 0364
 Phone: 207-883-3194
 Mgmt Address: BOX 0364
 Mgmt Phone: 207-883-3194
 Longitude: 070-27-11.200W
 Elev (ft): 277
 Aero chart: NEW YORK
 Dir from Business: N
 Certified Date: Not Reported
 Is Int'l Airport?: Not Reported
 Inspection Method: 2
 Last inspected: Not Reported
 Lighting: Not Reported
 Beacon Color: Not Reported
 Single engine: 002
 Jet engines: Not Reported
 Gliders: Not Reported
 Ultralights: Not Reported
 Air taxis: Not Reported

Runway id: 01/19
 Width: 1000
 Lights Intensity: Not Reported
 Markings: Not Reported
 Longitude: Not Reported
 Approach lights: Not Reported
 Centerline Lights: Not Reported
 Recip End ID: 19
 Recip Lat: Not Reported
 Recip Elev: Not Reported
 Recip End Lgts: Not Reported

Runway id: 13/31
 Width: 3000
 Lights Intensity: Not Reported
 Markings: Not Reported
 Longitude: Not Reported
 Approach lights: Not Reported
 Centerline Lights: Not Reported
 Recip End ID: 31
 Recip Lat: Not Reported

State: MAINE
 City: RAYMOND
 Owner type: PR
 Owner: WILLIAM J FIELDING III
 City/State: SCARBOROUGH, ME 04070-0364
 Mgmt Name: WILLIAM J. FIELDING II
 Mgmt City/St: SCARBOROUGH, ME 04070-0364
 Latitude: 43-55-48.267N
 Lat Method: E
 Elev method: E
 Dist from Business: 02
 Date Active: 02/1989
 Fed agreements: Not Reported
 Is Customs Airport?: Not Reported
 Inspected by: N
 Attendance: UNATNDD
 Has ATC Tower: N
 Landing fee: Not Reported
 Multi engine: Not Reported
 Helicopters: Not Reported
 Military: Not Reported
 Commercial: Not Reported
 Local ops: Not Reported

Length: 8200
 Surface: WATER
 Base End Id: 01
 Latitude: Not Reported
 Elevation: Not Reported
 End Lights: Not Reported
 Touchdown Lights: Not Reported
 Recip markings: Not Reported
 Recip Long: Not Reported
 Recip App Lgts: Not Reported
 Recip Ctr Lgts: Not Reported

Length: 7000
 Surface: WATER
 Base End Id: 13
 Latitude: Not Reported
 Elevation: Not Reported
 End Lights: Not Reported
 Touchdown Lights: Not Reported
 Recip markings: Not Reported
 Recip Long: Not Reported

FCC & FAA SITES MAP FINDINGS AIRPORTS

EDR ID
Database

Recip Elev: Not Reported
Recip End Lgts: Not Reported

Recip App Lgts: Not Reported
Recip Ctr Lgts: Not Reported

FCC & FAA SITES MAP FINDINGS POWERLINES

**EDR ID
Database**

No Sites Reported.

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS

Officially designated wilderness areas

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

National Park Service, Northeast Region

200 custom Street, Fifth Floor

Philadelphia, PA 19106

215-597-7013

USDA Forest Service, Eastern

310 West Wisconsin Avenue

Milwaukee, WI 53203

414-297-3693

Fish & Wildlife Service, Region 5

Div. Of Personnel Mgmt. 300 Westgate Center Drive

Hadley, MA 01035-9589

413-253-8313

Officially designated wildlife preserves, sanctuaries and refuges

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

ME Park and Conservation: Park and Conservation Lands
Source: Maine Office of GIS.
Telephone: 207-287-6144

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

State Contacts for Additional Information

Dept. of Inland Fisheries & Wildlife 207-287-5202

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

Endangered Species

Government Records Searched in This Report

Endangered Species Protection Program Database

A listing of endangered species by county.

Source: Environmental Protection Agency

Telephone: 703-305-5239

ME Endangered: Habitat Consultation Area Mapping

Source: Dept. of Inland Fisheries and Wildlife.

Telephone: 207-941-4483

ME Endangered: Habitat Consultation Areas

The ME IFW Service does not provide any text detail within the GIS file itself. Contact the ME IFW for further information.

Source: Dept. of Inland Fisheries and Wildlife.

Telephone: 207-941-4466

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

State Contacts for Additional Information

Natural Heritage Program, Dept. of Conservation 207-287-8044

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES

Historic Places

Government Records Searched in This Report

National Register of Historic Places:

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation.

The National Register includes:

- All prehistoric and historic units of the National Park System;
- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and
- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 03/23/2006

ME Historic Sites: National Register of Historic Places

Listing of historic sites included on the National Register for Maine.

Source: Maine Historic Preservation Commission.

Telephone: 207-287-2132

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation
1849 C Street NW
Washington, DC 20240
Phone: (202) 208-6843

State Contacts for Additional Information

Maine Historic Preservation Commission 207-287-2132

Indian Religious Sites

Government Records Searched in This Report

Indian Reservations:

This map layer portrays Indian administrated lands of the United States that have any area equal to or greater than 640 acres.

Source: USGS

Phone: 888-275-8747

Date of Government Version: 12/31/2005

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs
Office of Public Affairs
1849 C Street, NW
Washington, DC 20240-0001
Office: 202-208-3711
Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers
1411 K Street NW, Suite 700
Washington, DC 20005
Phone: 202-628-8476
Fax: 202-628-2241

State Contacts for Additional Information

A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at:
<http://www.doi.gov/bia/areas/agency.html>

Eastern Area Office, Bureau of Indian Affairs
3701 N. Fairfax Drive Mail Stop 260-VASQ
Arlington, VA 22203
703-235-2571

Scenic Trails

Government Records Searched in This Report

APPAL_TRAIL: Appalachian Trail
Source: Appalachian Trail Conference
Telephone: (304) 535-6331
Appalachian Trail centerline.

State Contacts for Additional Information

Appalachian Trail Conference
799 Washington Street P.O. Box 807
Harpers Ferry, WV 25425-0807
(304) 535-6331

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management

Government Records Searched in This Report

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Federal Contacts for Additional Information

Federal Emergency Management Agency 877-3362-627

State Contacts for Additional Information

Maine Emergency Management Agency 207-626-4503

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Wetlands Protection

Government Records Searched in This Report

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2004 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Office of Geographic Information Systems

Telephone: 207-287-6144

Federal Contacts for Additional Information

Fish & Wildlife Service 813-570-5412

State Contacts for Additional Information

Dept. of Conservation 207-287-2211

Coastal Zone Management

Government Records Searched in This Report

CAMA Management Areas

Dept. of Env., Health & Natural Resources

919-733-2293

Federal Contacts for Additional Information

Office of Ocean and Coastal Resource Management

N/ORM, SSMC4

1305 East-West Highway

Silver Spring, Maryland 20910

301-713-3102

State Contacts for Additional Information

State Planning Office, Coastal Programs 207-287-3261

FCC & FAA SITES MAP

For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report

Cellular

Federal Communications Commission

Mass Media Bureau

2nd Floor - 445 12th Street SW

Washington DC 20554 USA

Telephone (202) 418-2700

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Tower

Federal Communications Commission

Mass Media Bureau

2nd Floor - 445 12th Street SW

Washington DC 20554 USA

Telephone (202) 418-2700

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KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Antenna Registration

Federal Communications Commission

Mass Media Bureau

2nd Floor - 445 12th Street SW

Washington DC 20554 USA

Telephone (202) 418-2700

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AM Tower

Federal Communications Commission

Mass Media Bureau

2nd Floor - 445 12th Street SW

Washington DC 20554 USA

Telephone (202) 418-2700

FAA Digital Obstacle File

Federal Aviation Administration (FAA)

1305 East-West Highway, Station 5631

Silver Spring, MD 20910-3281

Telephone: 301-713-2817

Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities

Federal Aviation Administration

Telephone (800) 457-6656

Private and public use landing facilities.

Electric Power Transmission Line Data

PennWell Corporation

Telephone: (800) 823-6277

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Excessive Radio Frequency Emission

For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information

Office of Engineering and Technology

Federal Communications Commission

445 12th Street SW

Washington, DC 20554

Phone: 202-418-2470

OTHER CONTACT SOURCES

NEPA Single Point of Contact

State Contacts for Additional Information

State Planning Office

184 State Street

38 State House Station

Augusta, ME 4333

207-287-3261

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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