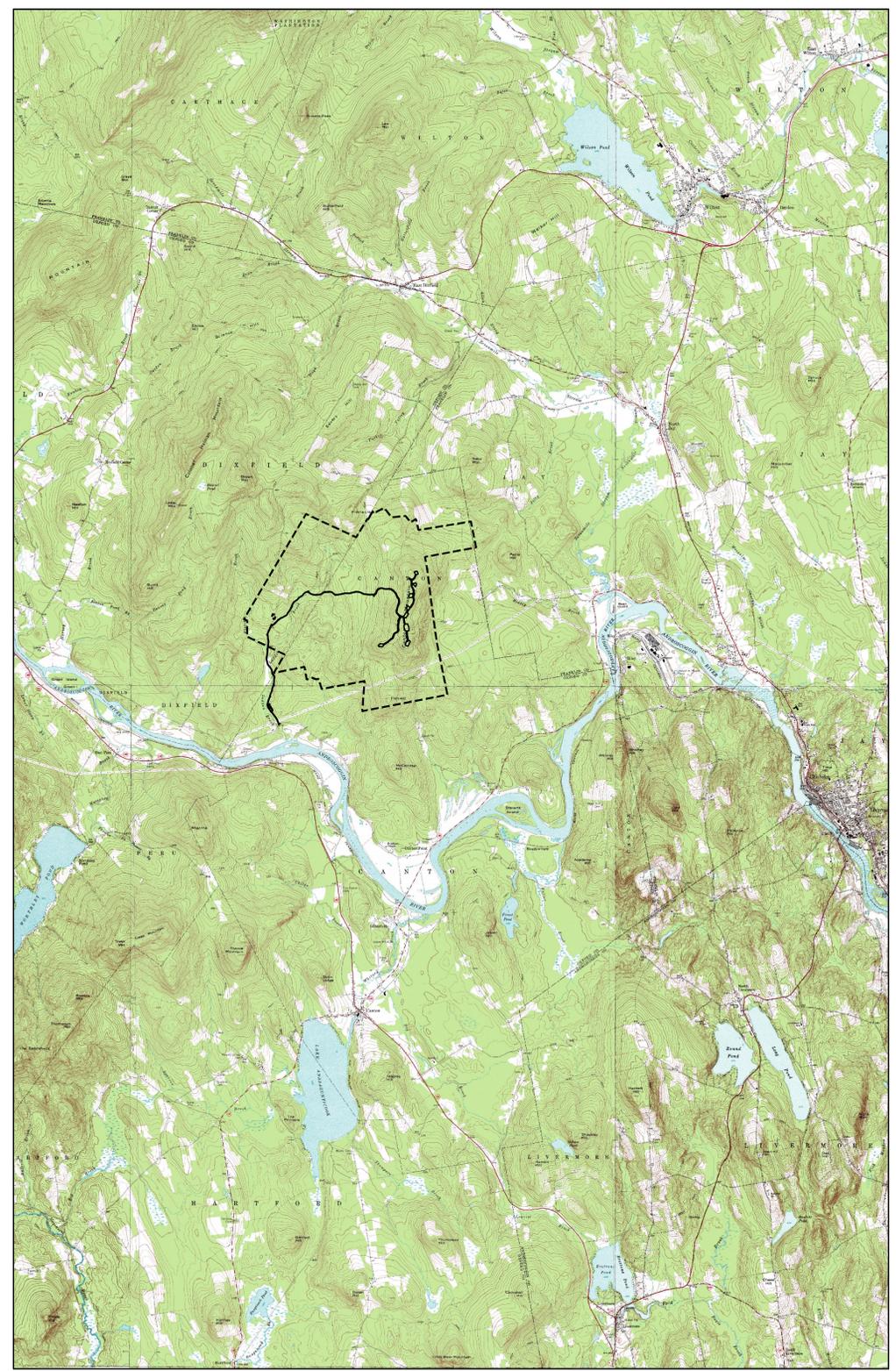


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	EXISTING ROAD		RUNOFF FLOW DIRECTION		WETLANDS
	EXISTING GRADE CONTOUR		PROPOSED STORMWATER TREATMENT BUFFER		PSS
	EXISTING BUILDING/STRUCTURE		PROPOSED STORMWATER TREATMENT BUFFER WITH STONE TREATMENT BERM		PEM
	EXISTING UTILITY POLE		PROPOSED STORMWATER TREATMENT BUFFER WITH DISTRIBUTION BERM		PFO
	STREAM		PROPOSED 50 FT. X 80 FT. LEVEL CRANE PAD		WSS PSS
	STREAM				WSS PEM
	PROPOSED CLEARING LIMIT				WSS PFO
	PROPOSED GRADE CONTOUR				
	PROPOSED ROAD CENTERLINE				
	PROPOSED CULVERT/STRUCTURE				
	PROPOSED EROSION CONTROL MIX BERM				
	PROPOSED CULVERT				
	PROPOSED LEVEL LIP SPREADER				
	PROPOSED DITCH TURNOUT				
	PROPOSED DIVERSION BERM				
	PROPOSED ROCK SANDWICH/ROCK MAKI				
	PROPOSED REVEGETATED AREA				
	EXISTING JEEP ROAD TO BE SCARIFIED AND REVEGETATED				
	PROPOSED VISUAL BUFFER				



**CANTON MOUNTAIN WIND PROJECT  
VICINITY MAP**

**GENERAL NOTES:**

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

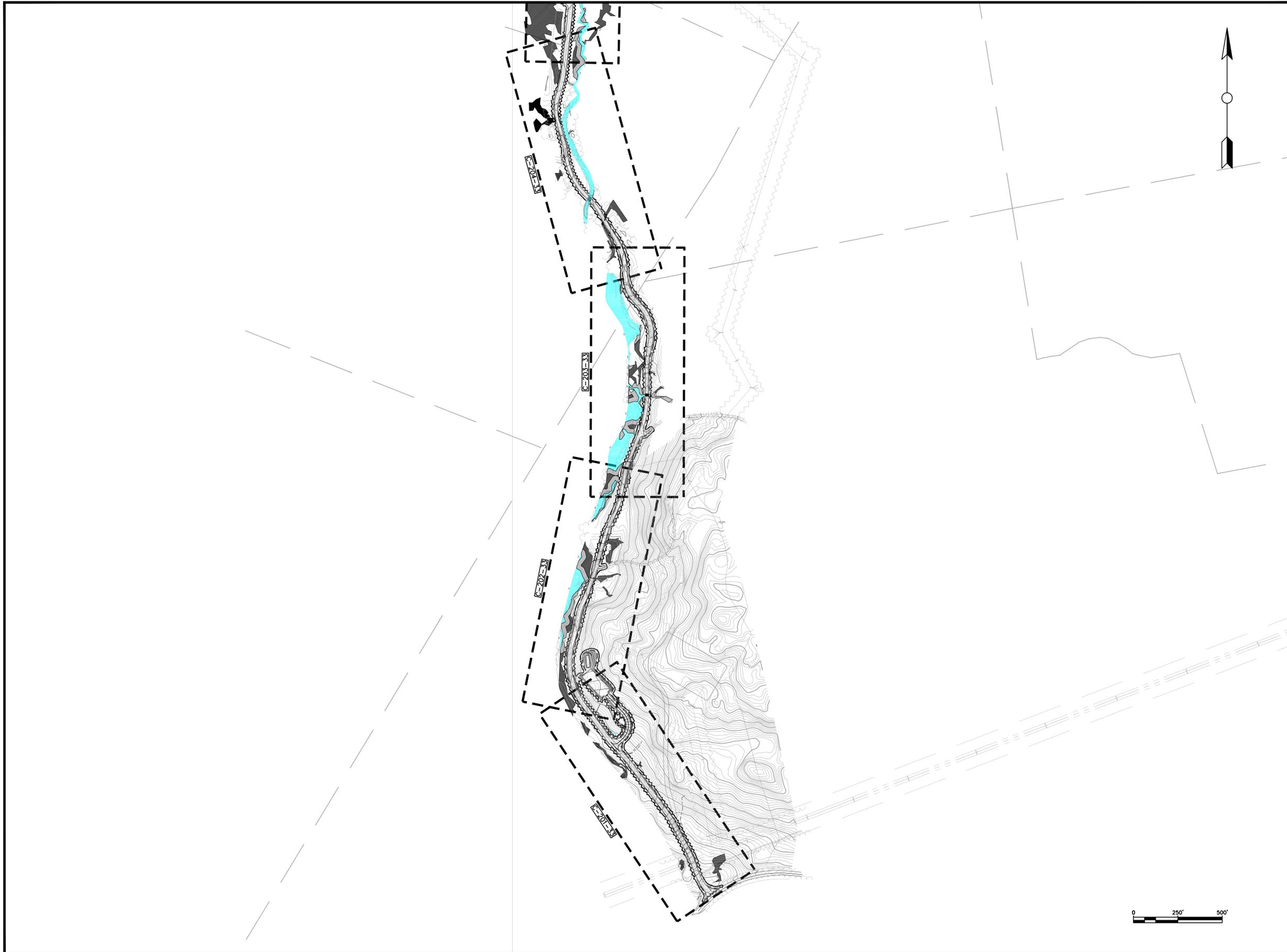
**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
50 SOUTH STREET, SUITE 101  
TEL: (617) 890-0600 FAX: (617) 890-0600

Stamp:

Drawing Title:  
**SHEET INDEX / LEGEND / VICINITY MAP**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 1 OF 44	

Dwg No.:  
**C-100-33**

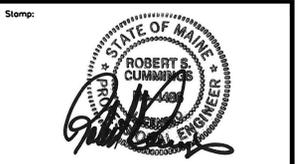


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A	DEP REVISIONS	06/13/12


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Drawing Title:

**LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING**  
**INDEX SHEET**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project:			
CANTON MOUNTAIN WIND PROJECT CANTON, ME			
Client:			
CANTON MOUNTAIN WIND, LLC			
Sheet Number:			
2 OF 44			

Dwg No.:

C-200-33A



**GENERAL NOTES:**

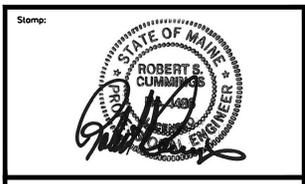
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A	DEP REVISIONS	06/13/12

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Drawing Title:

**LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING**

**INDEX SHEET**

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 3 OF 44

Dwg No.: C-200-33B

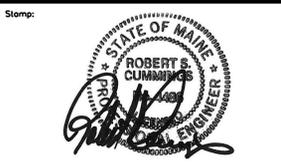


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A	DEP REVISIONS	06/13/12


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Drawing Title:

**LUDDEN LANE/LOGGING ROAD IMPROVEMENTS AND TEMPORARY WIDENING**  
**INDEX SHEET**

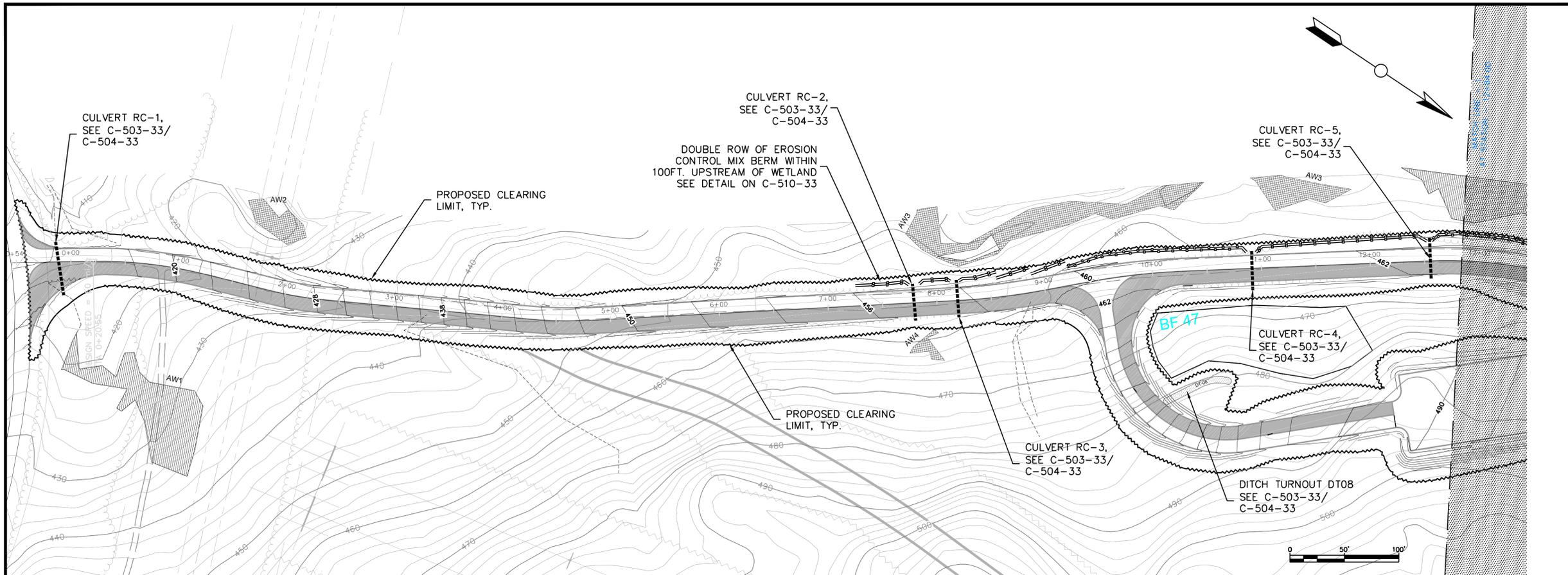
Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 4 OF 44

Dwg No.: C-200-33C

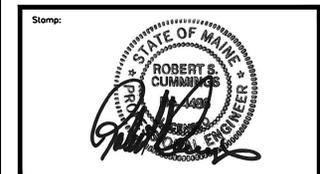


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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

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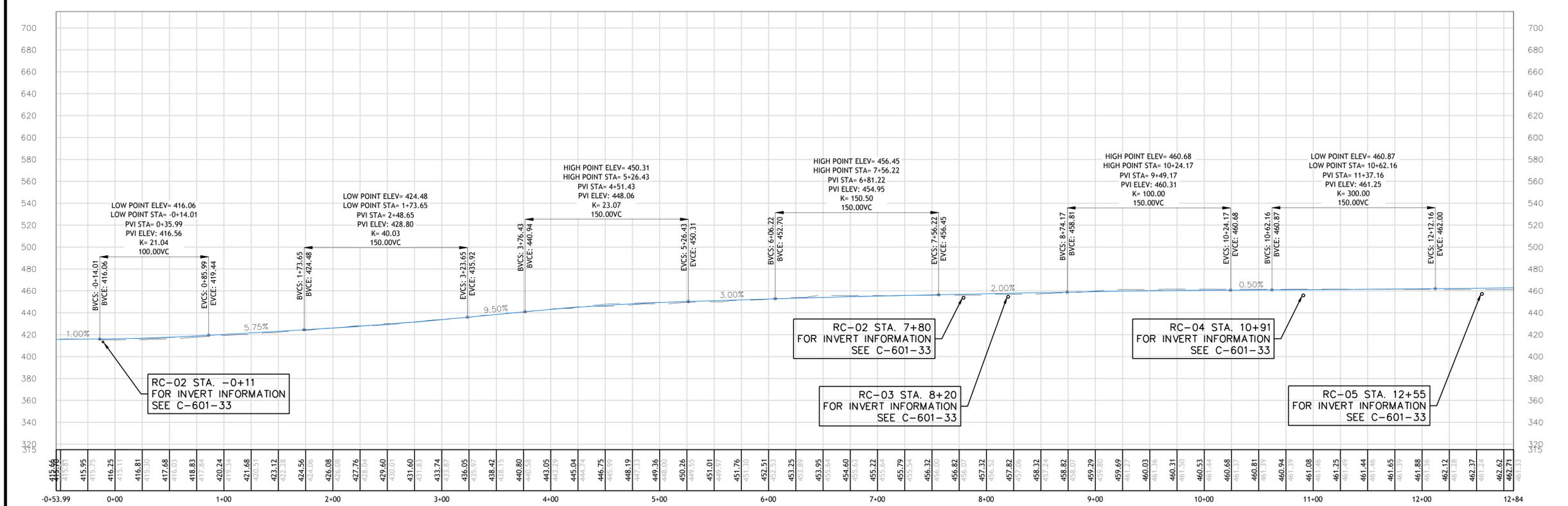
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Stamp: **STATE OF MAINE**  
**ROBERT S. CUMMINGS**  
PROFESSIONAL ENGINEER

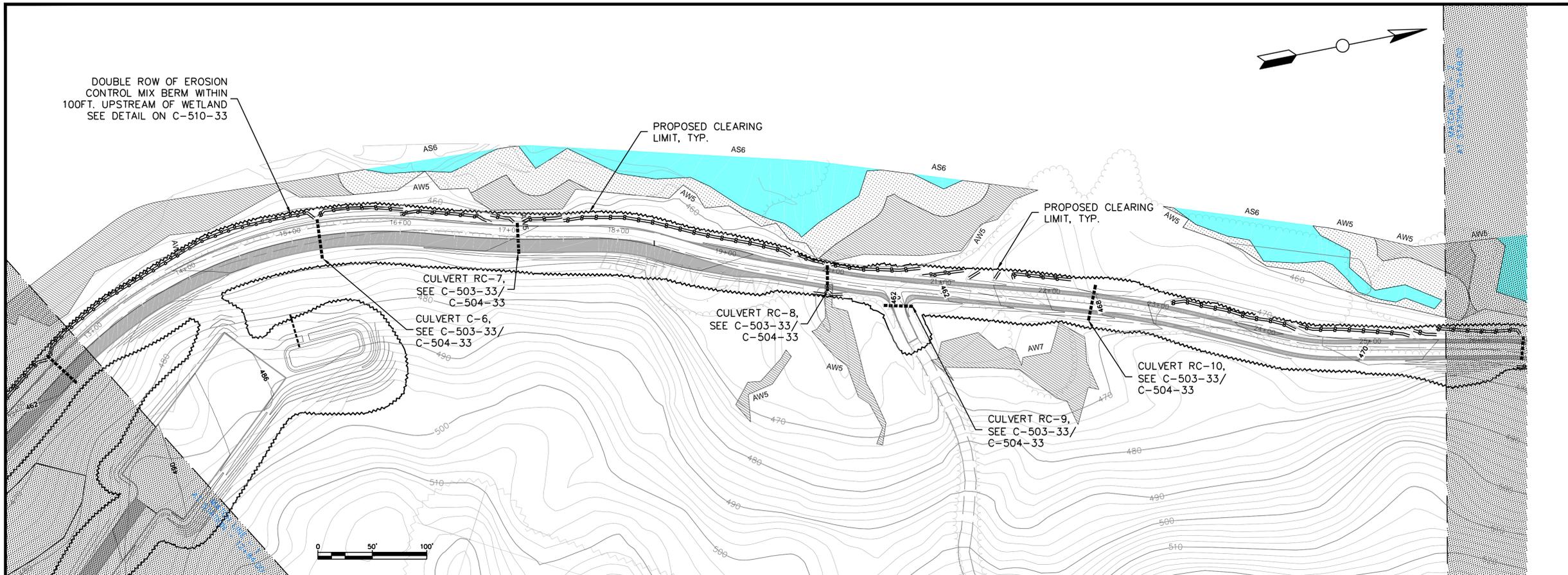
Drawing Title:  
**LUDDEN LANE PLAN AND PROFILE**  
  
STA. 0+00 TO 12+84

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 5 OF 44	



LUDDEN LANE Profile  
Station -0+53.99 To Station 12+84.00

Proj No.:  
**C-201-33**



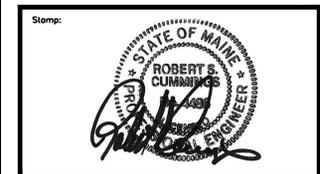
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A	DEP REVISIONS	06/13/12

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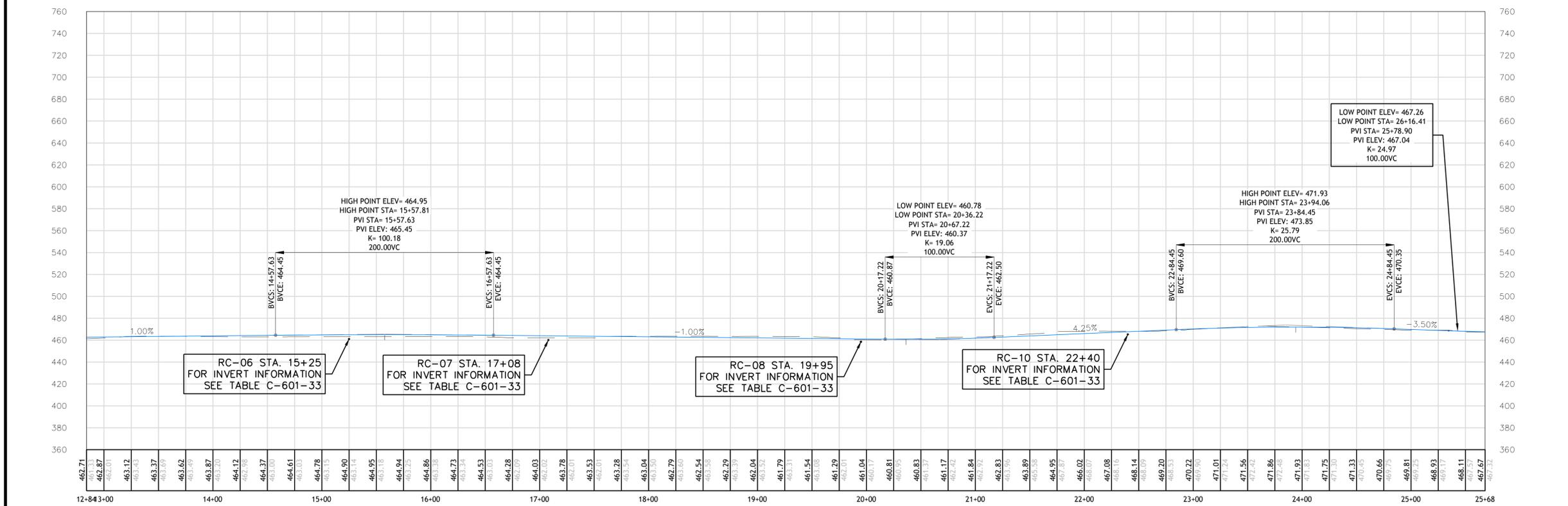


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**LUDDEN LANE PLAN AND PROFILE**

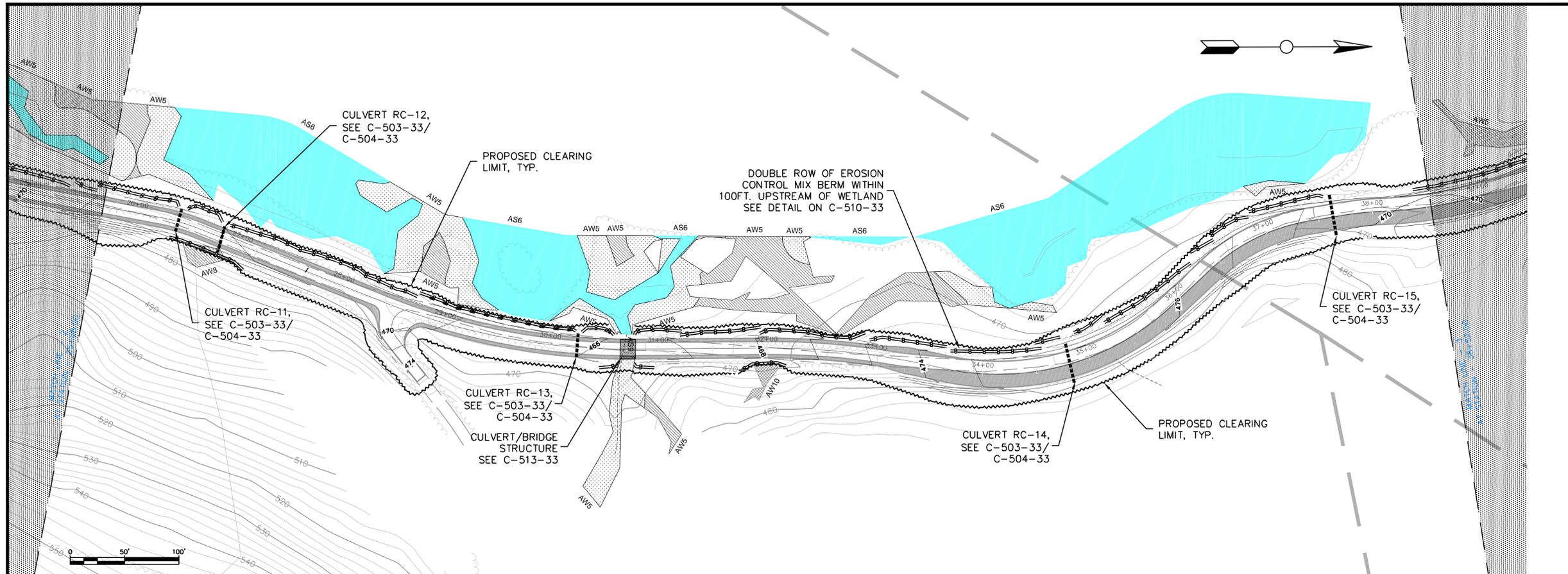
STA. 12+84 TO 25+68

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	CHK'D By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	6 OF 44		



**LUDDEN LANE Profile**  
Station 12+84.00 To Station 25+68.00

Dwg No.: **C-202-33**

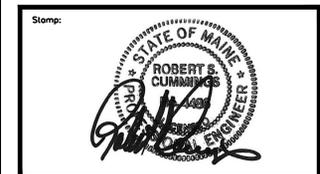


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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

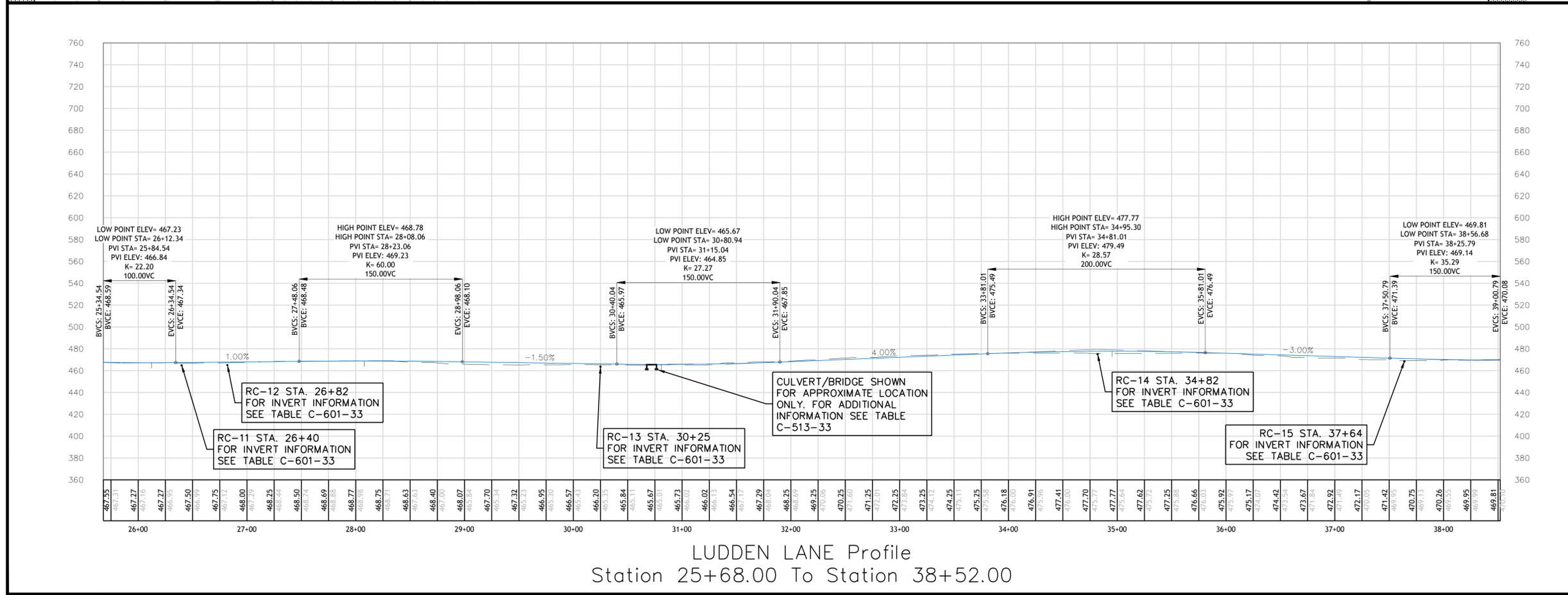
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549 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608



Drawing Title:  
**LUDDEN LANE PLAN AND PROFILE**

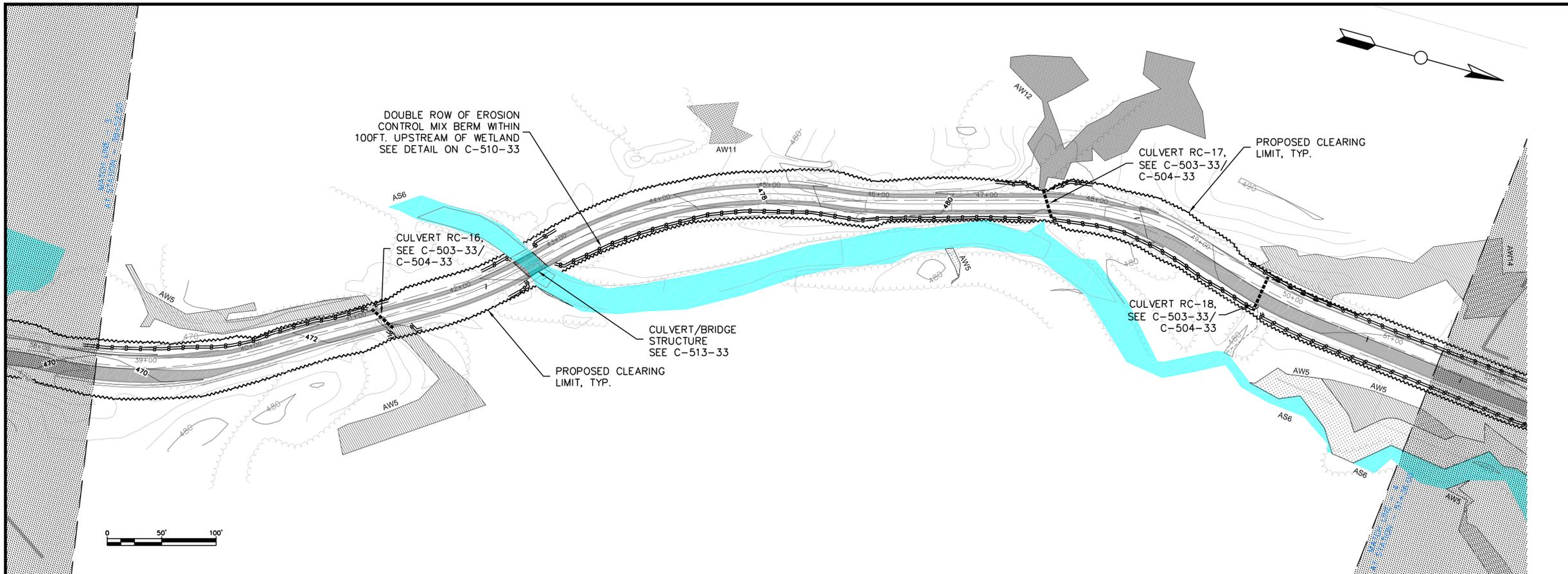
STA. 25+68 TO 38+52

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Check By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 7 OF 44	



LUDDEN LANE Profile  
Station 25+68.00 To Station 38+52.00

Dwg No.:  
**C-203-33**



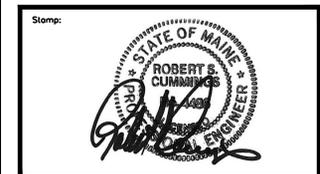
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A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

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 549 SOUTH STREET, QUINCY, MA 02169  
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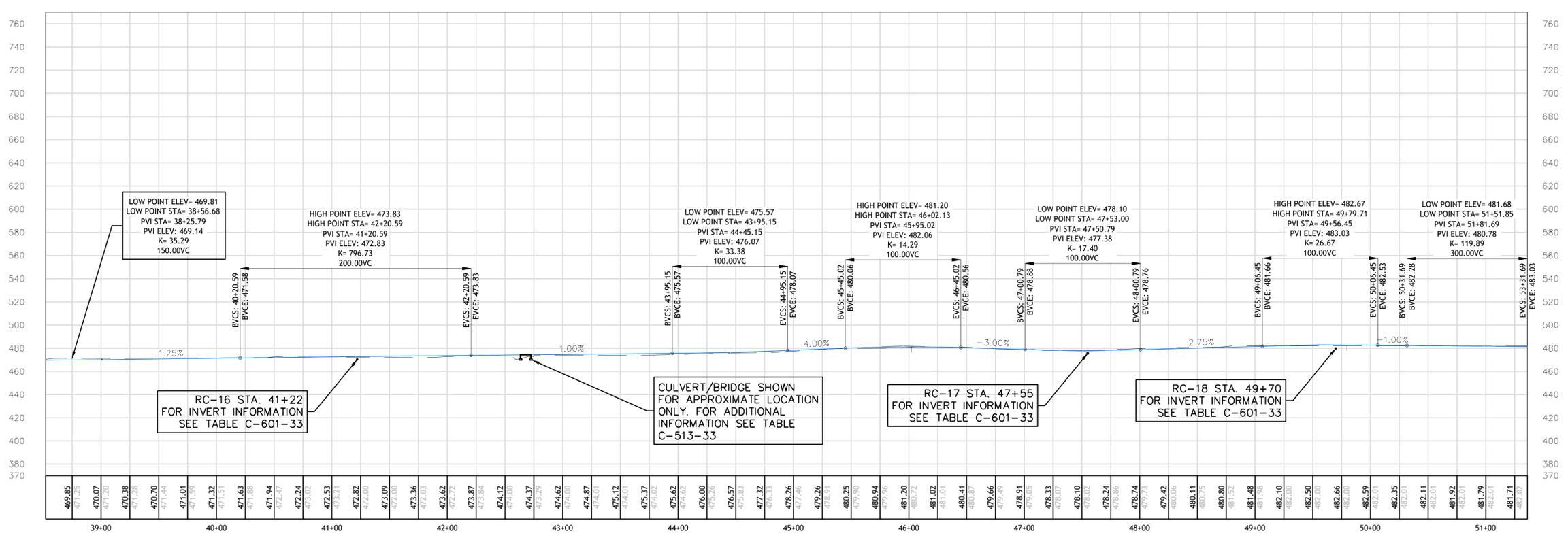
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STA. 38+52 TO 51+36

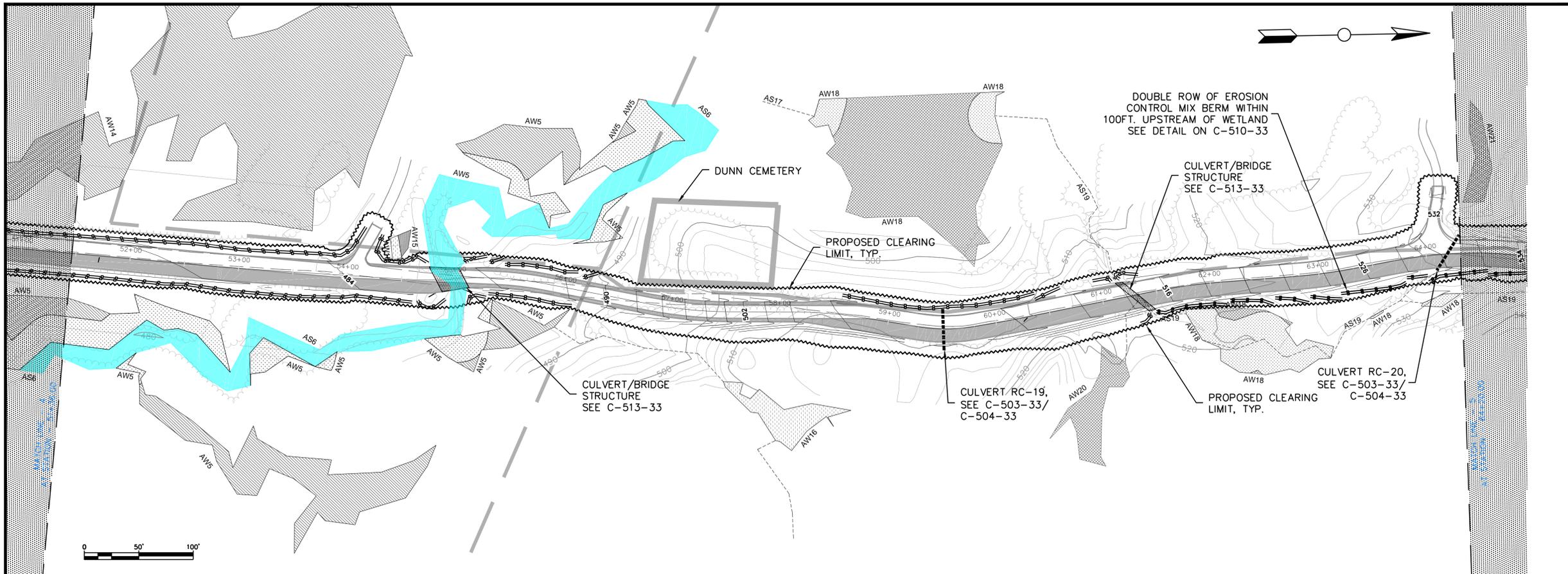
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Drawn By:	GAD	Check By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	8 OF 44		

Draw No.:

**C-204-33**

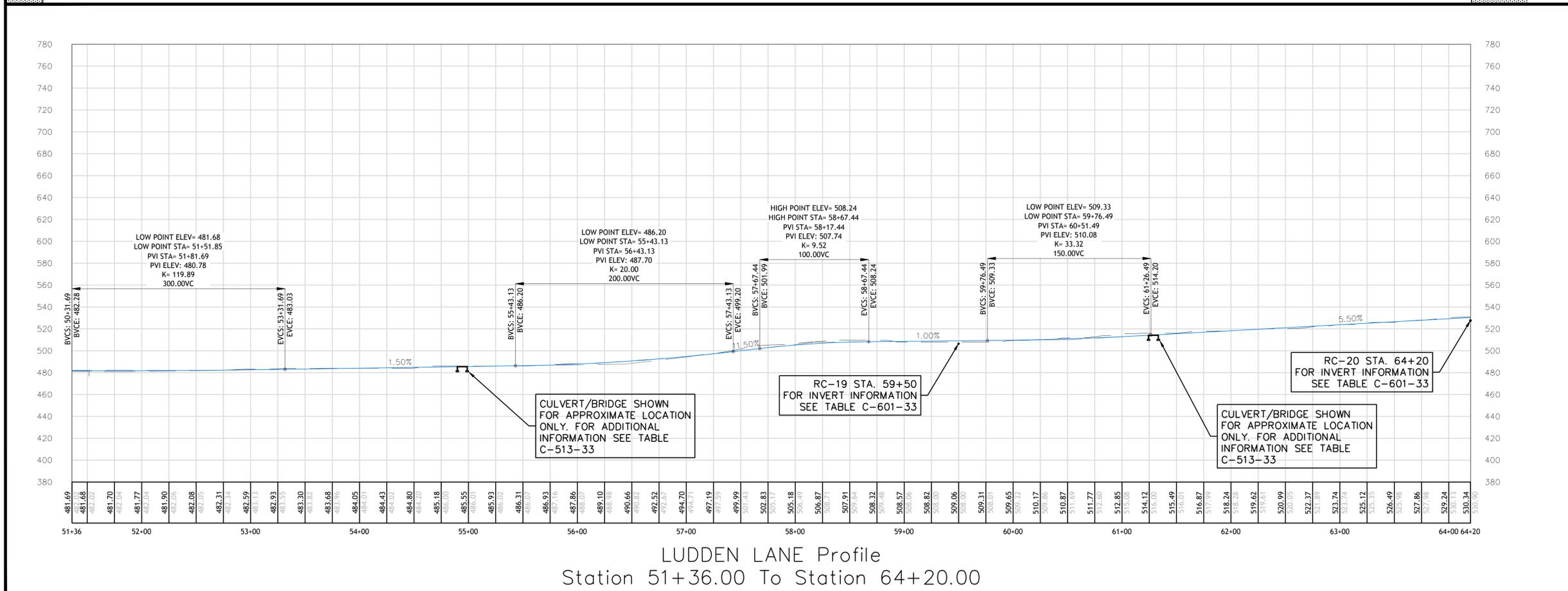


LUDDEN LANE Profile  
Station 38+52.00 To Station 51+36.00



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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12



Patriot Renewables  
**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
545 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608

Stamp:  
  
 Drawing Title:  
**LUDDEN LANE PLAN AND PROFILE**  
 STA. 51+36 TO 64+20

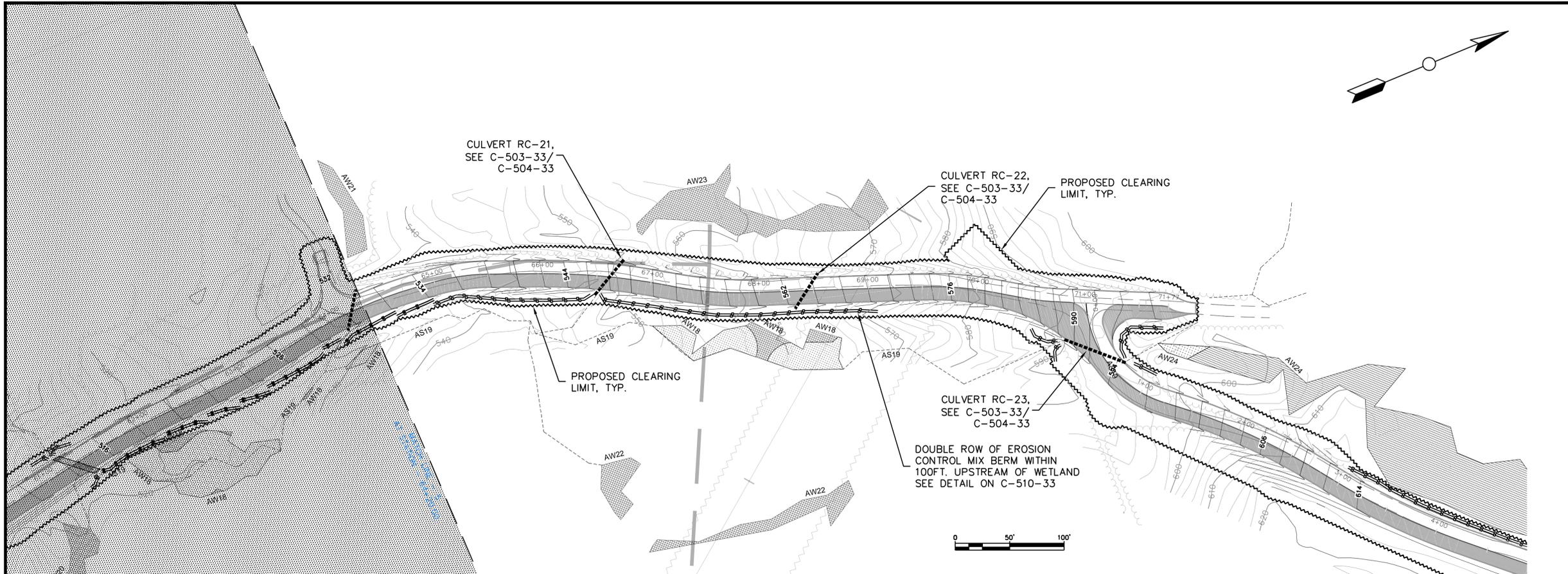
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Drawn By: GAD	Chk'd By: RSC

Project:  
CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

Client:  
CANTON MOUNTAIN WIND, LLC

Sheet Number:  
9 OF 44

Dwg No.:  
**C-205-33**



**GENERAL NOTES:**

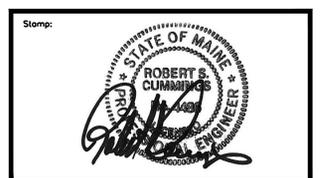
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A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

**EMS**

ENGINEERING & MANAGEMENT SERVICES, INC.  
 549 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

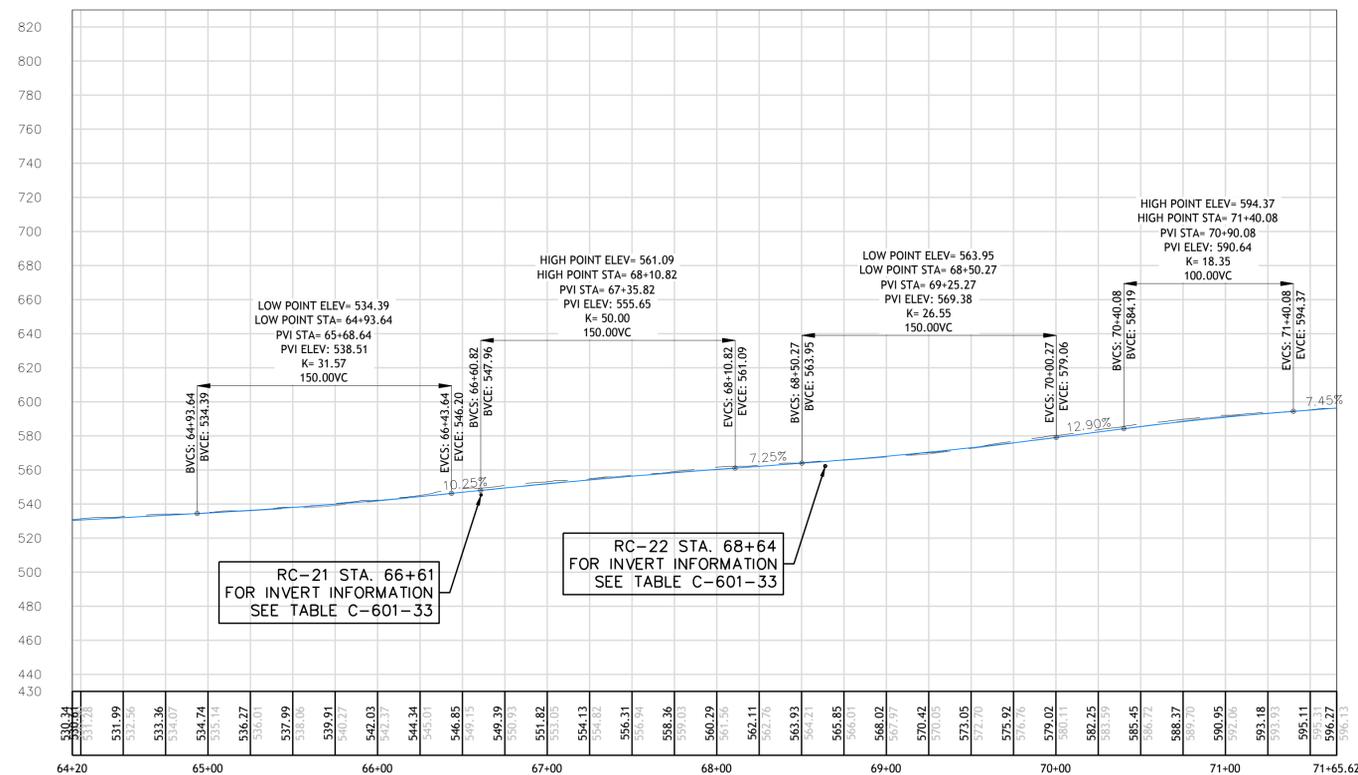


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**LUDDEN LANE PLAN AND PROFILE**

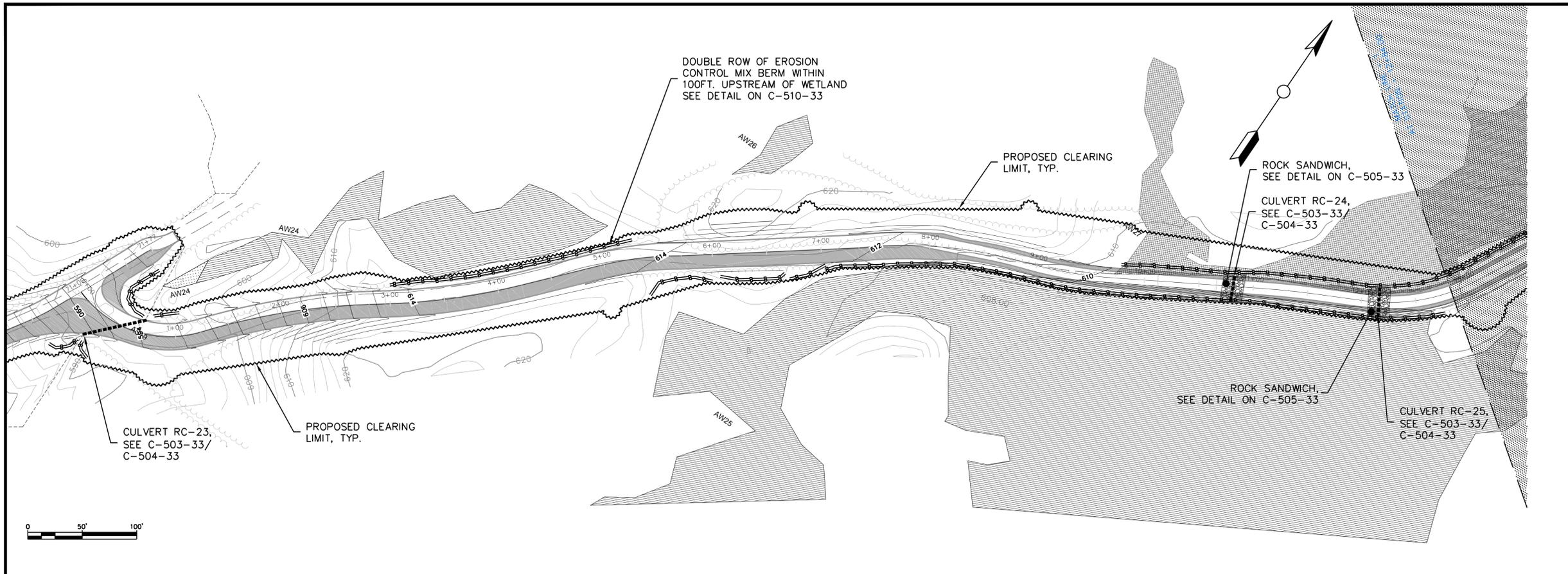
STA. 64+20 TO 71+65.62

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Check By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 10 OF 44	

Proj No.:  
**C-206-33**



LUDDEN LANE Profile  
 Station 64+20.00 To Station 71+65.62



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A	DEP REVISIONS	06/13/12

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 549 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

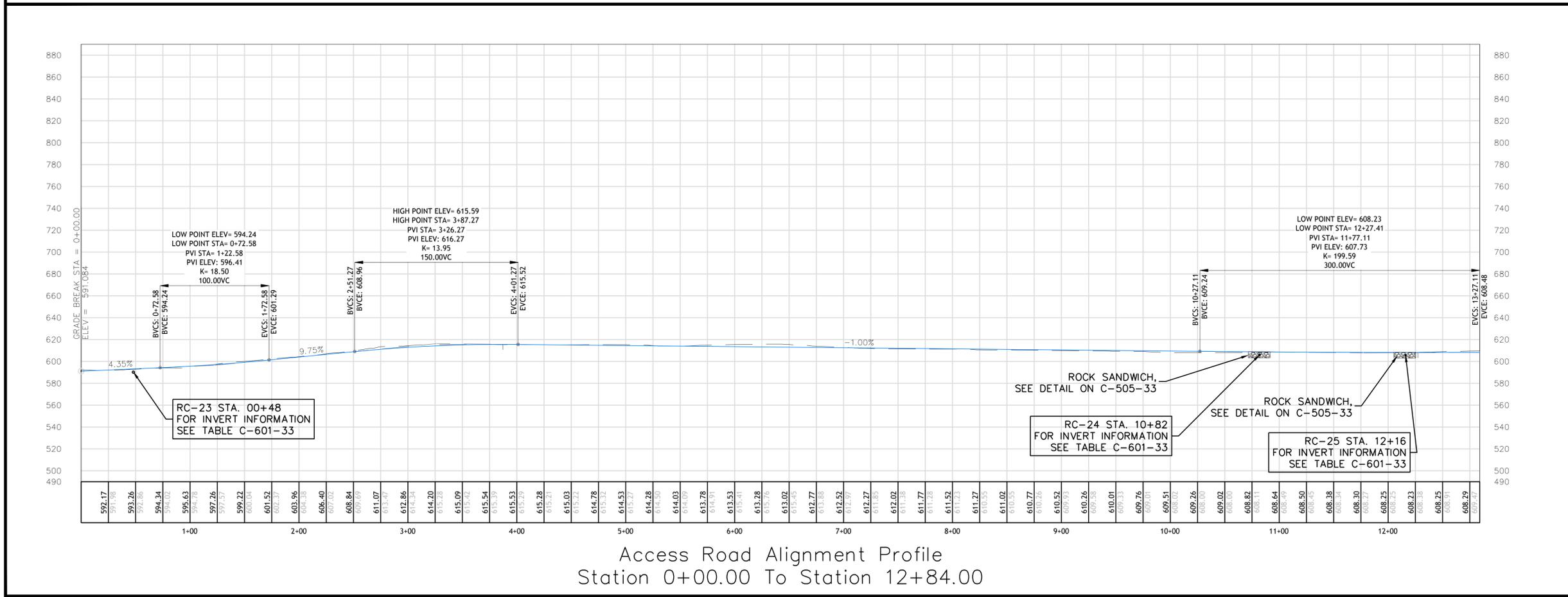
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Drawing Title:

## LOGGING ROAD PLAN AND PROFILE

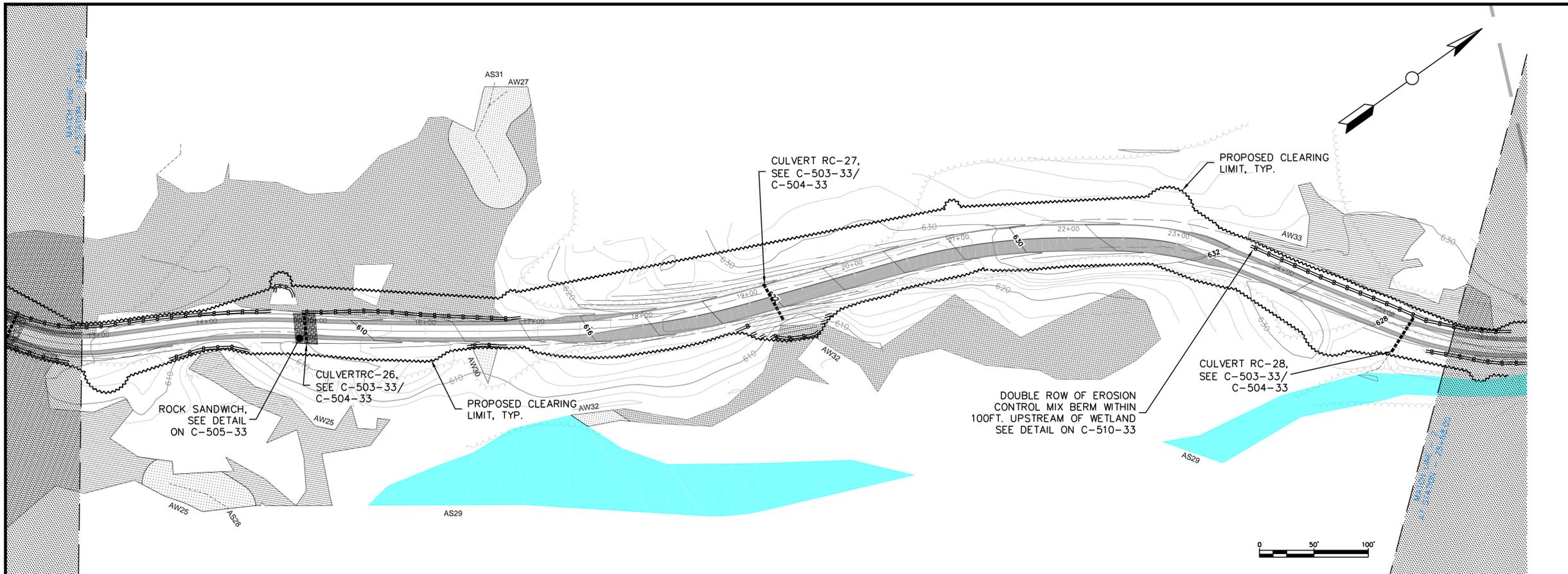
STA. 0+00 TO 12+84

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Checked By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	11 OF 60		



Access Road Alignment Profile  
 Station 0+00.00 To Station 12+84.00

Dwg No.:  
**C-207-33**



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A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date


**PATRIOT RENEWABLES**  
  
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545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

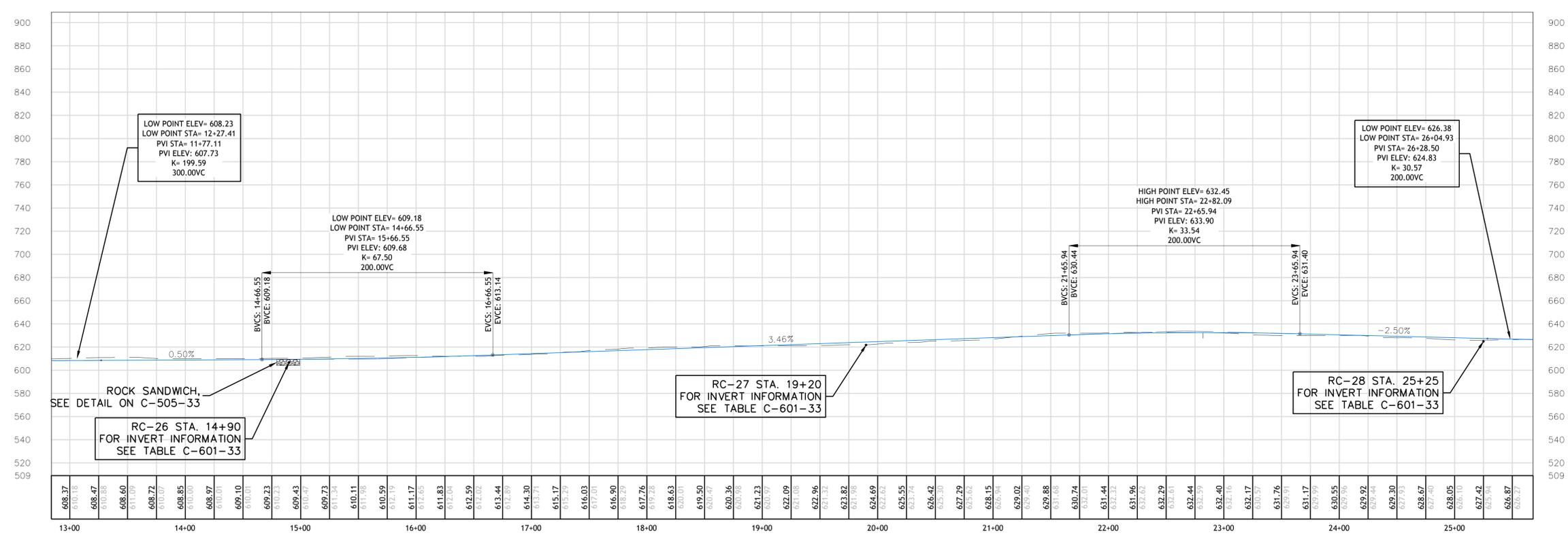
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Drawing Title:  
**LOGGING ROAD PLAN AND PROFILE**  
 STA. 12+84 TO 25+68

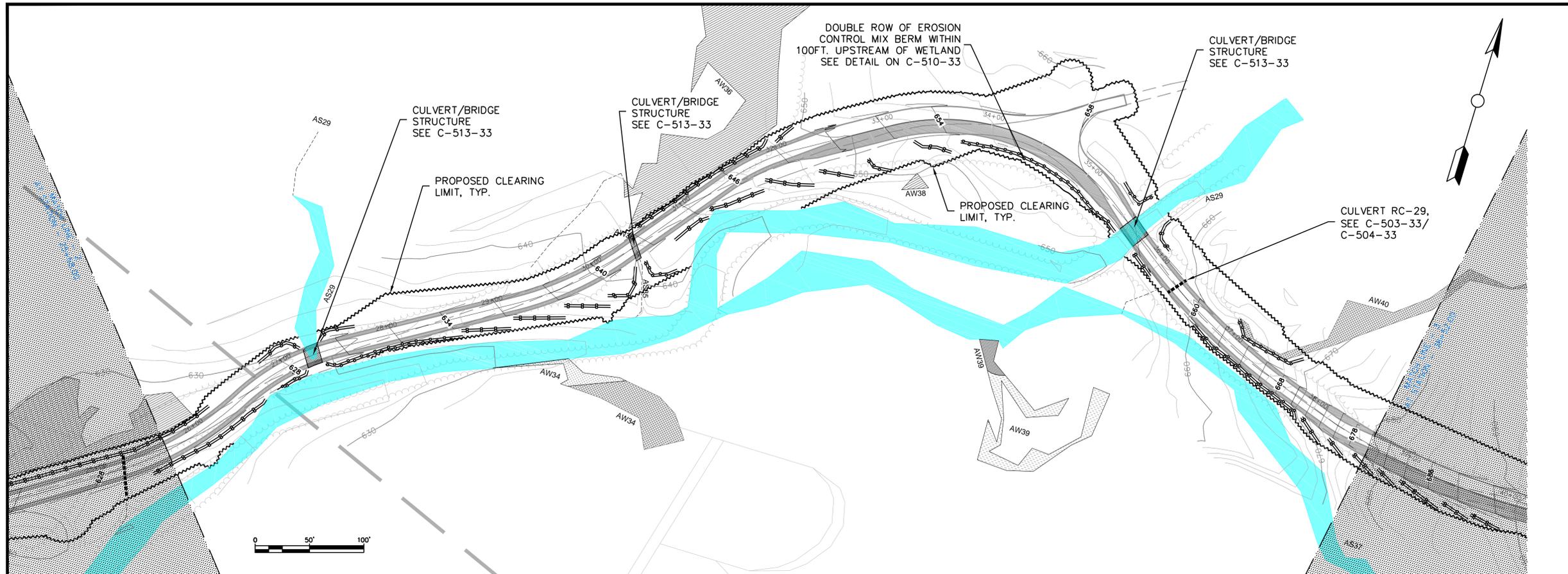
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Drawn By: GAD	Checked By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	

Sheet Number:  
12 OF 44

Dwg No.:  
**C-208-33**



Access Road Alignment Profile  
 Station 12+84.00 To Station 25+68.00



**GENERAL NOTES:**

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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

Patriot Renewables

**EMS**

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549 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608

Stamp:

Drawing Title:

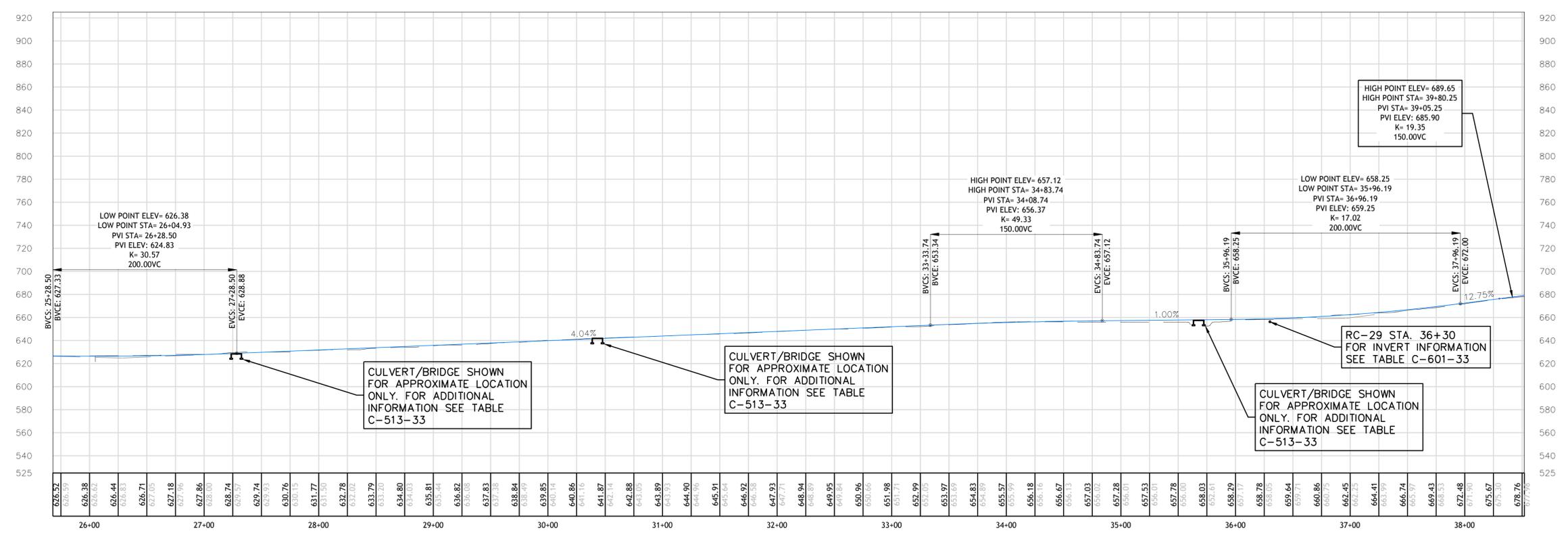
## LOGGING ROAD PLAN AND PROFILE

STA. 25+68 TO 38+52

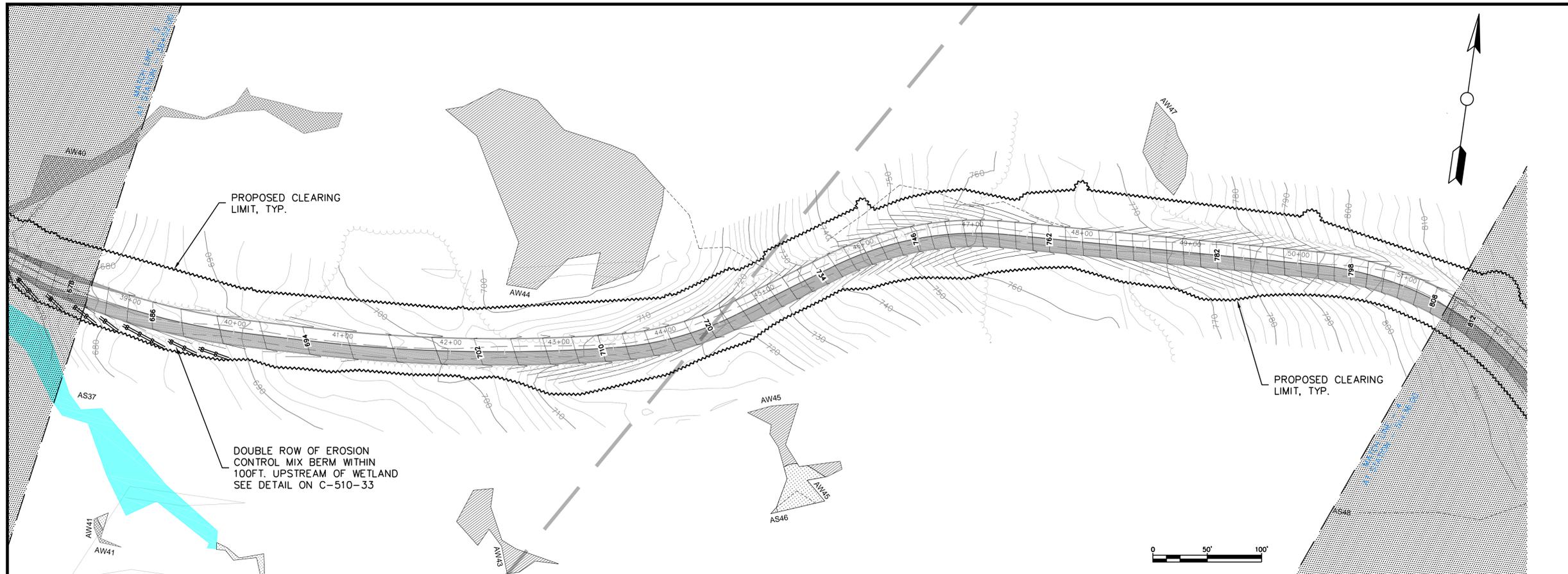
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Drawn By:	GAD	Checked By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		

Sheet Number: 13 OF 44

Draw No.: C-209-33



Access Road Alignment Profile  
Station 25+68.00 To Station 38+52.00



**GENERAL NOTES:**

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A	DEP REVISIONS	06/13/12


**PATRIOT RENEWABLES**  
  
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545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

Stamp: 

Drawing Title:  
**LOGGING ROAD PLAN AND PROFILE**

STA. 38+52 TO 51+36

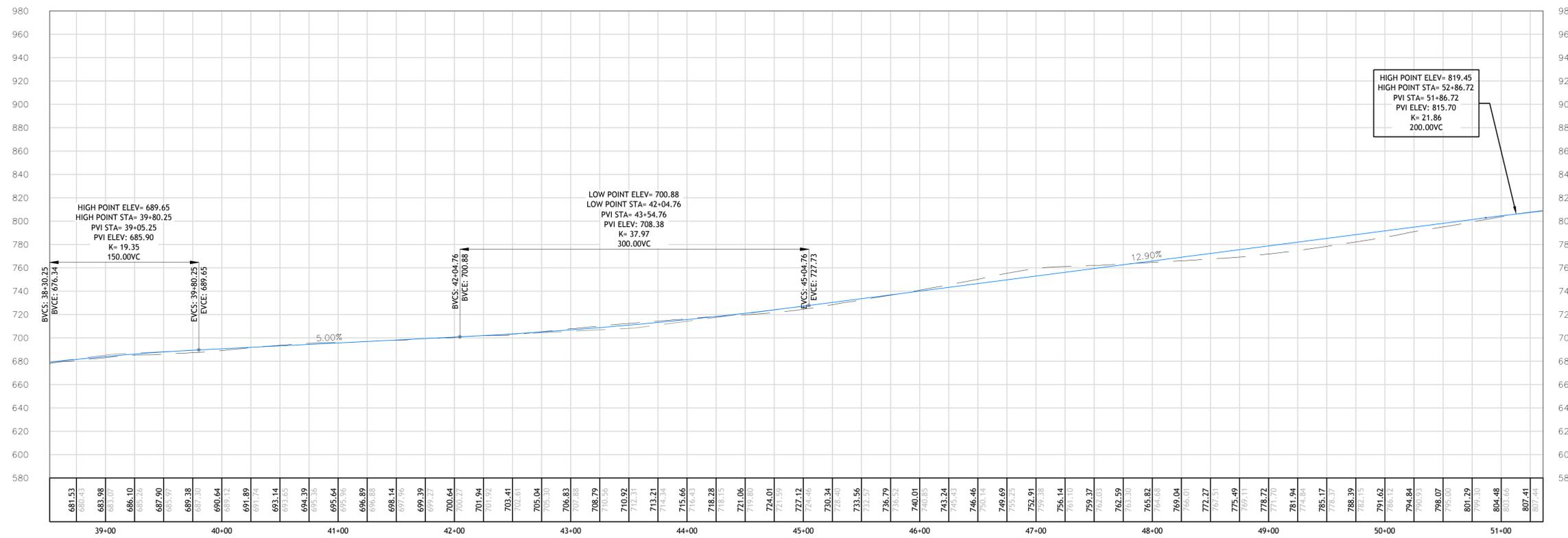
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Project:  
**CANTON MOUNTAIN WIND PROJECT  
 CANTON, ME**

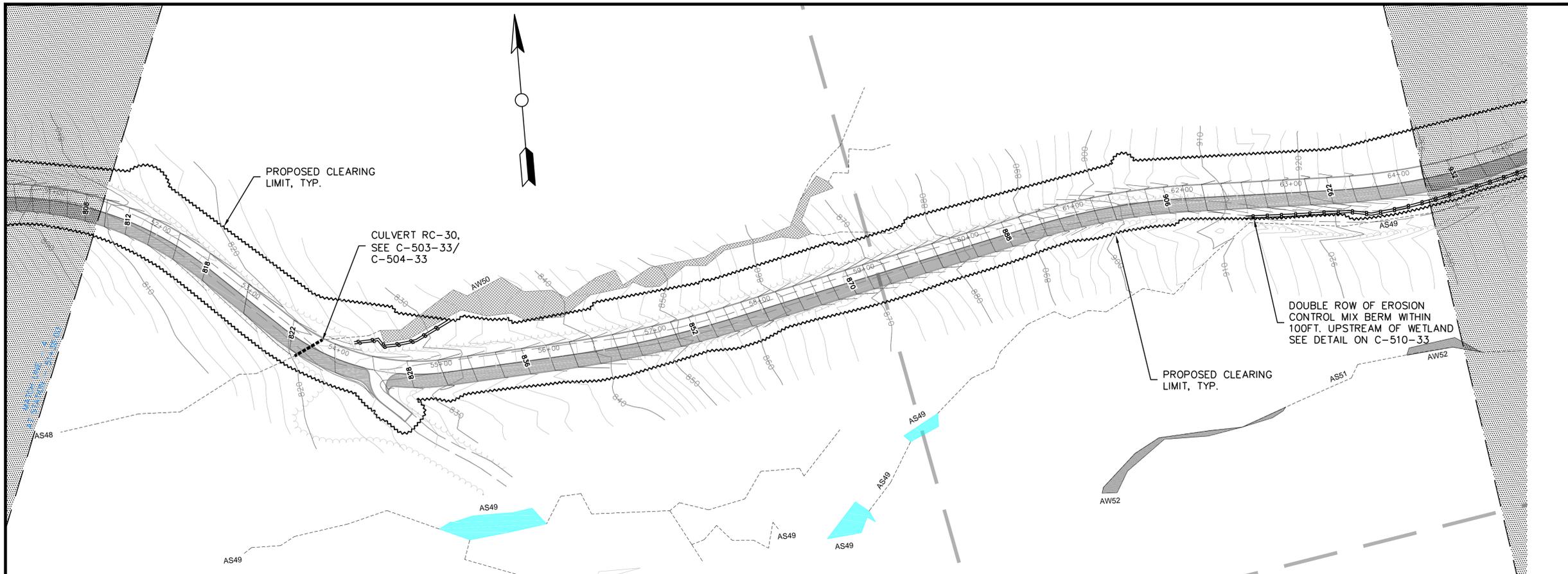
Client:  
**CANTON MOUNTAIN WIND, LLC**

Sheet Number:  
 14 OF 44

Dwg No.:  
**C-210-33**



Access Road Alignment Profile  
 Station 38+52.00 To Station 51+36.00



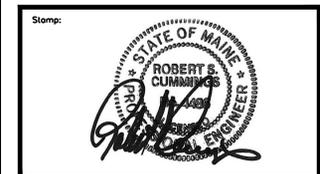
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

**EMS**

ENGINEERING & MANAGEMENT SERVICES, INC.  
 549 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608



Stamp:

Drawing Title:

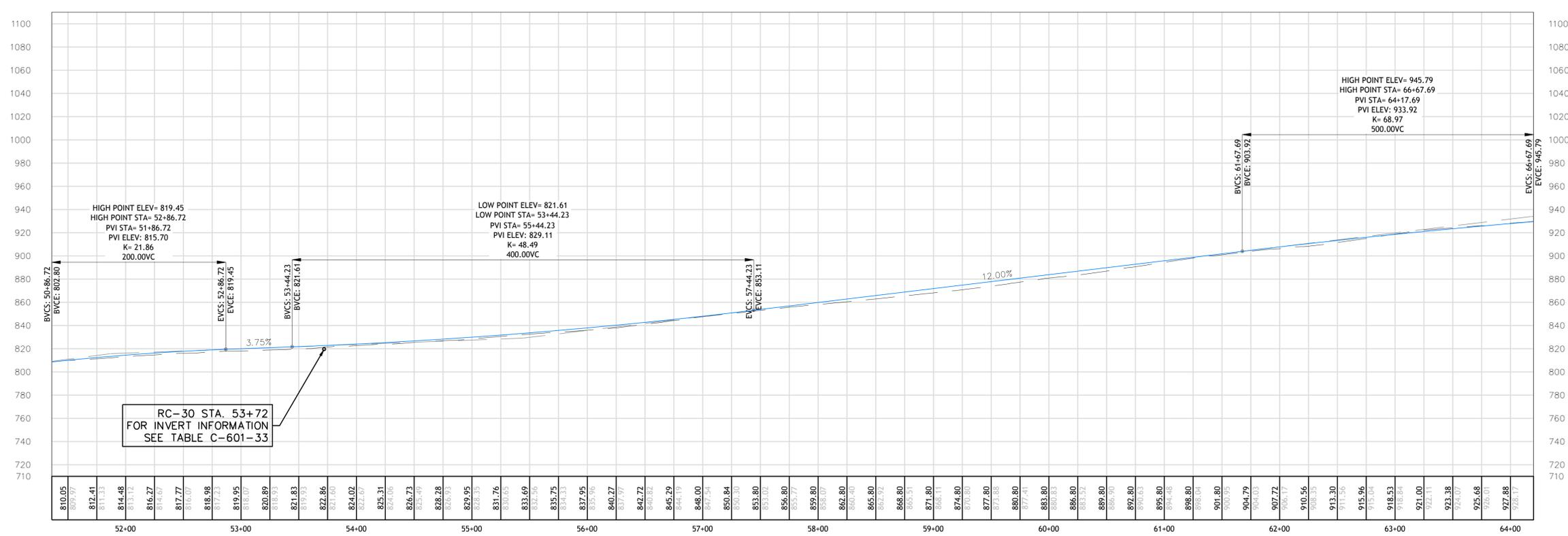
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STA. 51+36 TO 64+20

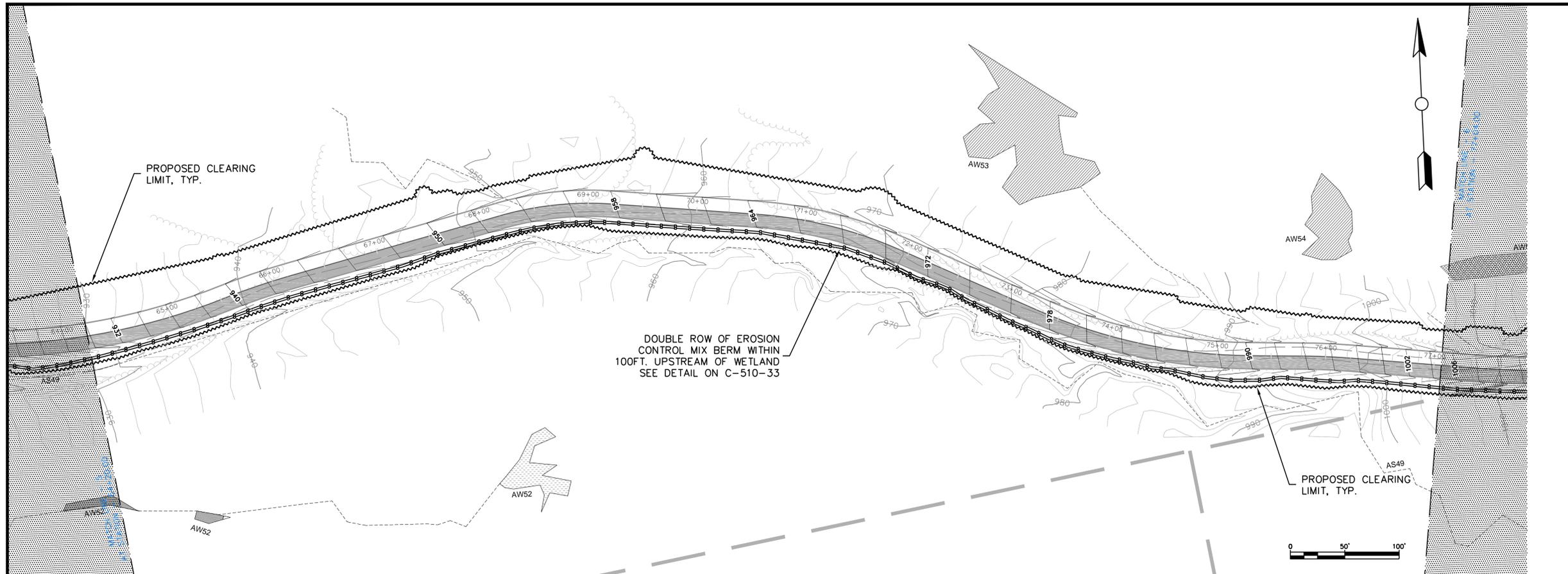
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Project:			
CANTON MOUNTAIN WIND PROJECT CANTON, ME			
Client:			
CANTON MOUNTAIN WIND, LLC			
Sheet Number:			
15 OF 44			

Dwg No.:

**C-211-33**



Access Road Alignment Profile  
Station 51+36.00 To Station 64+20.00

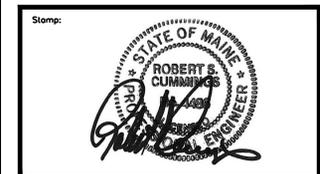


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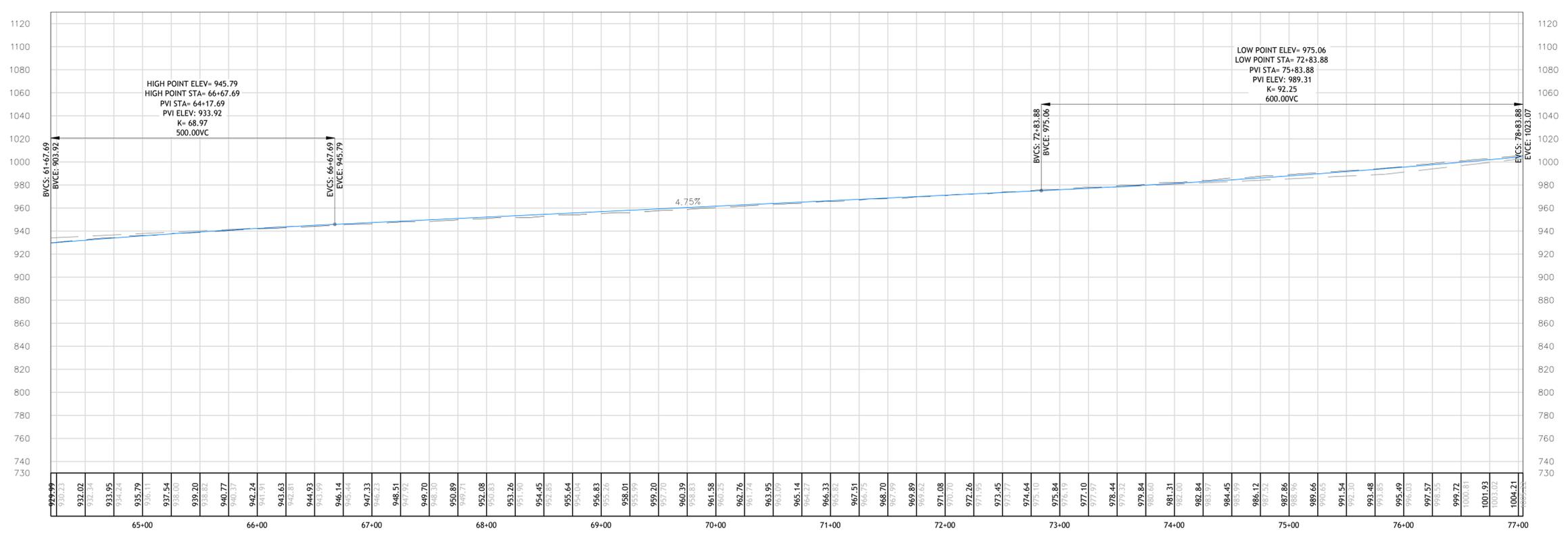


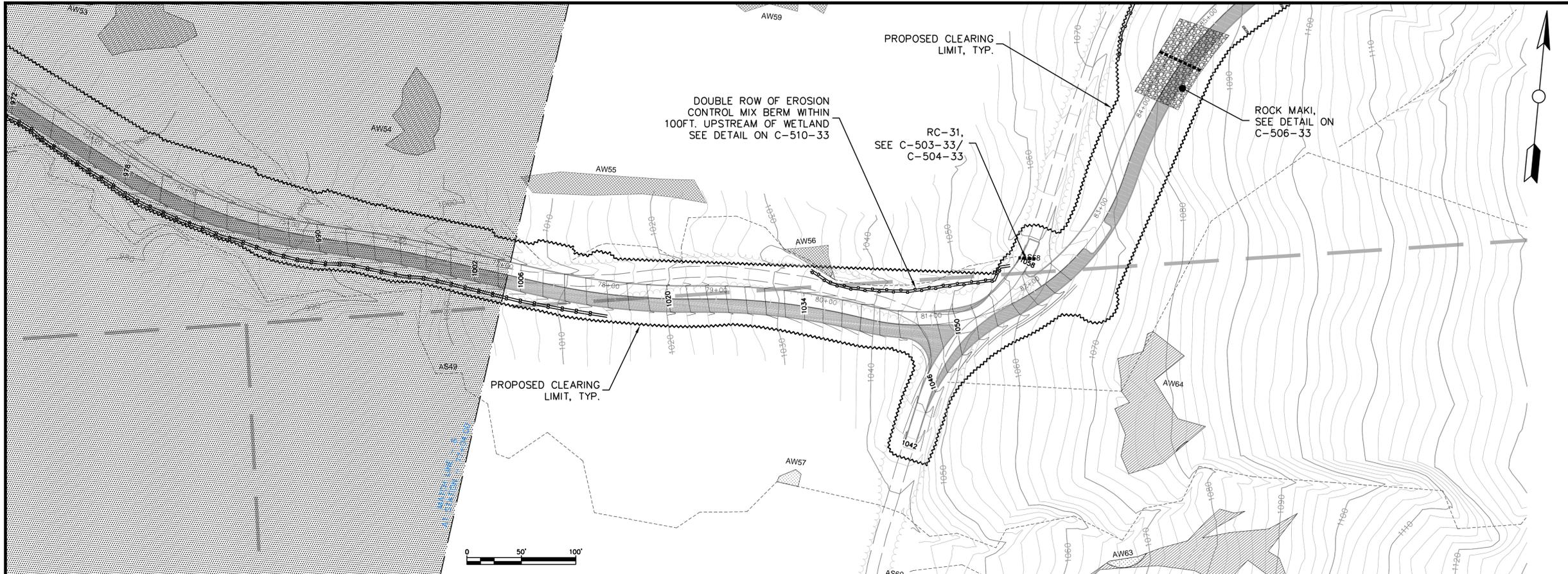
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**LOGGING ROAD PLAN AND PROFILE**

STA. 64+20 TO 77+04

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 16 OF 44	

Dwg No.:  
**C-212-33**



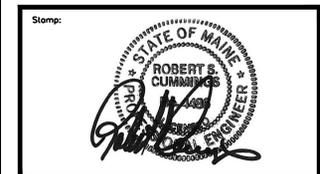


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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

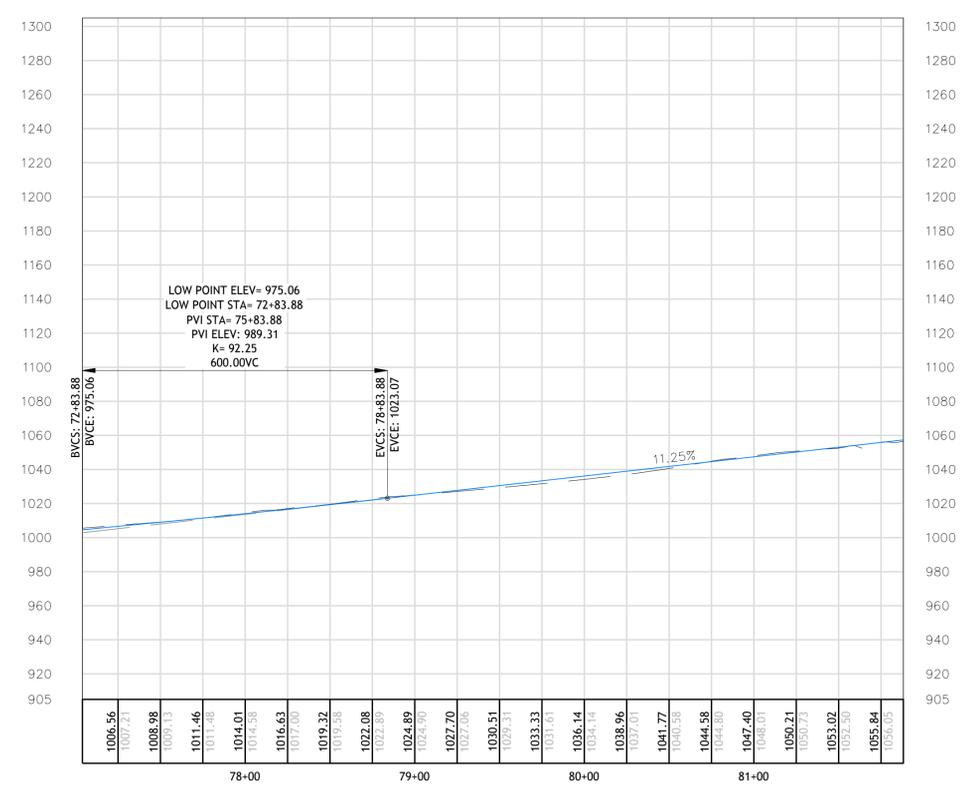
**PATRIOT RENEWABLES**

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548 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608



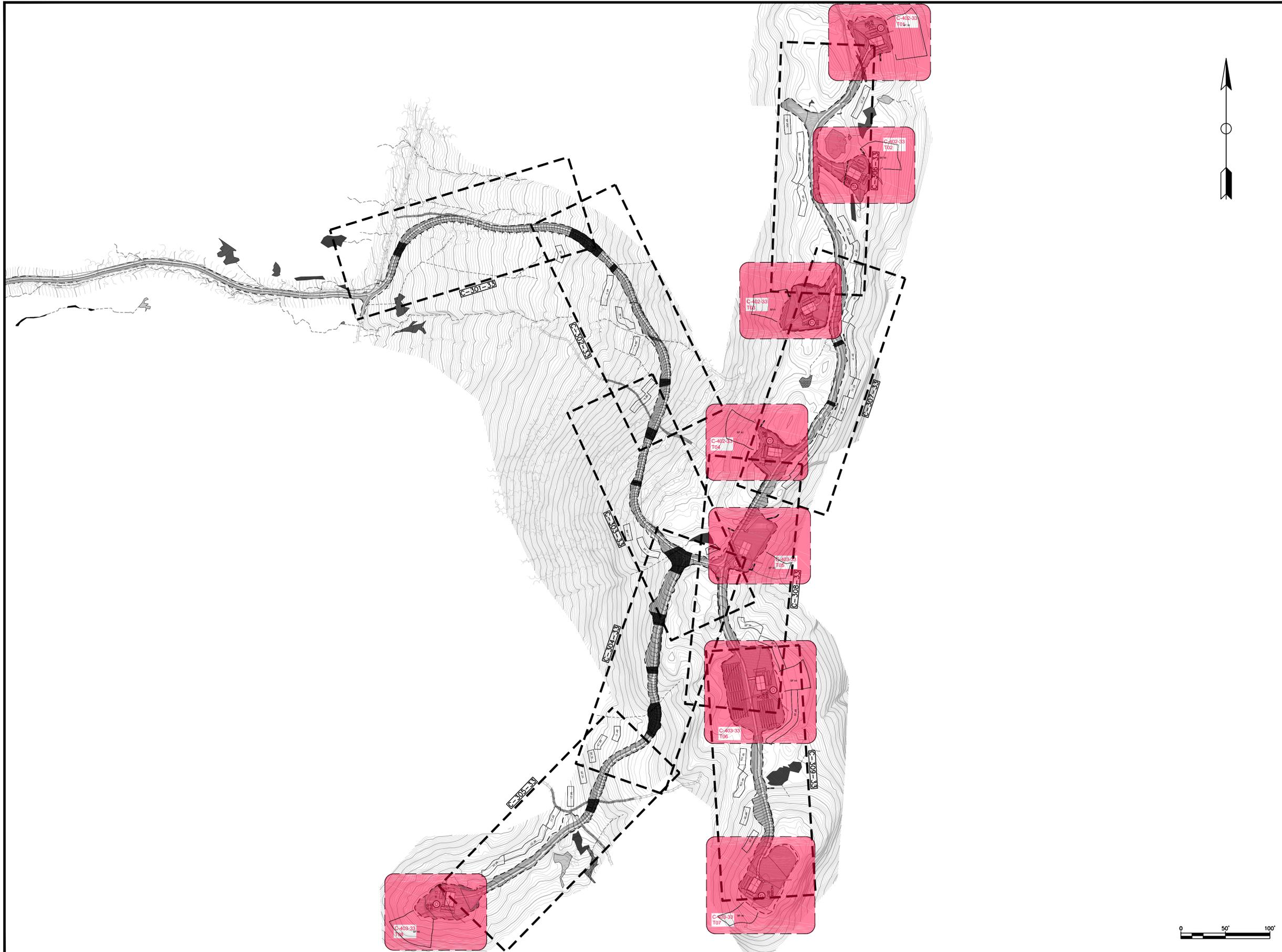
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STA. 77+04 TO 81+88.14

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 17 OF 44	



Access Road Alignment Profile  
Station 77+04.00 To Station 81+88.14

Dwg No.:  
**C-213-33**

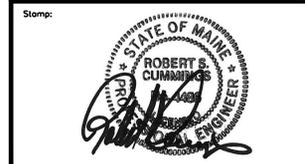


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A	DEP REVISIONS	06/13/12


**PATRIOT RENEWABLES**  
  
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545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX (617) 890-0608



Drawing Title:

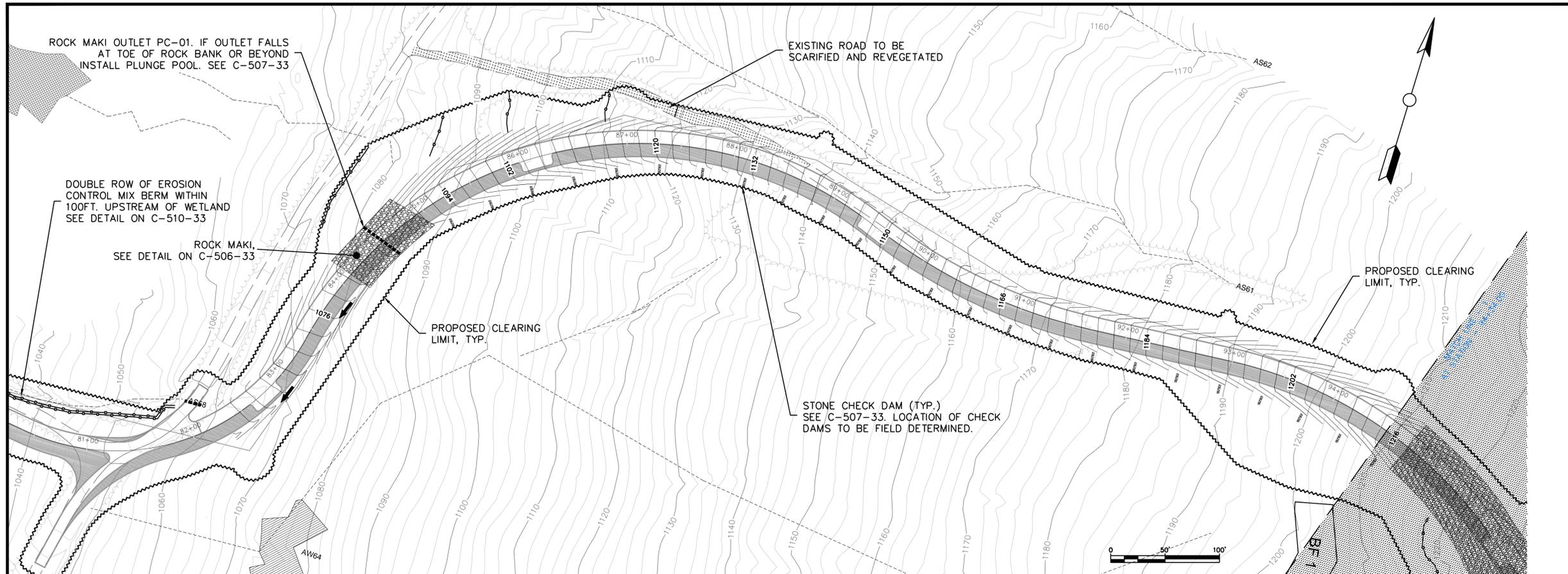
**ACCESS ROAD AND  
CRANE ROADS**

INDEX SHEET

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	18 OF 44		

Draw No.:

**C-300-33**

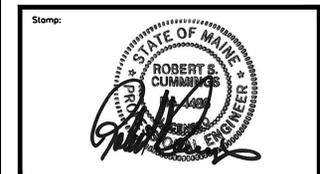


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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

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ENGINEERING & MANAGEMENT SERVICES, INC.  
549 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608

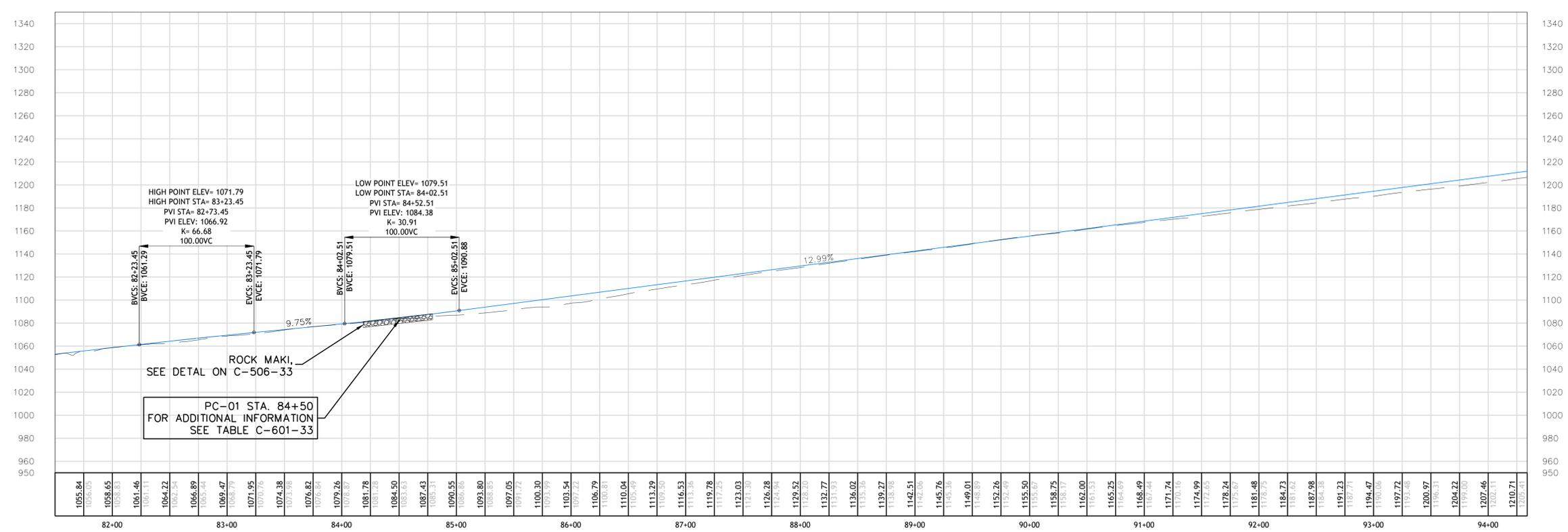


Drawing Title:  
**ACCESS ROAD PLAN AND PROFILE**

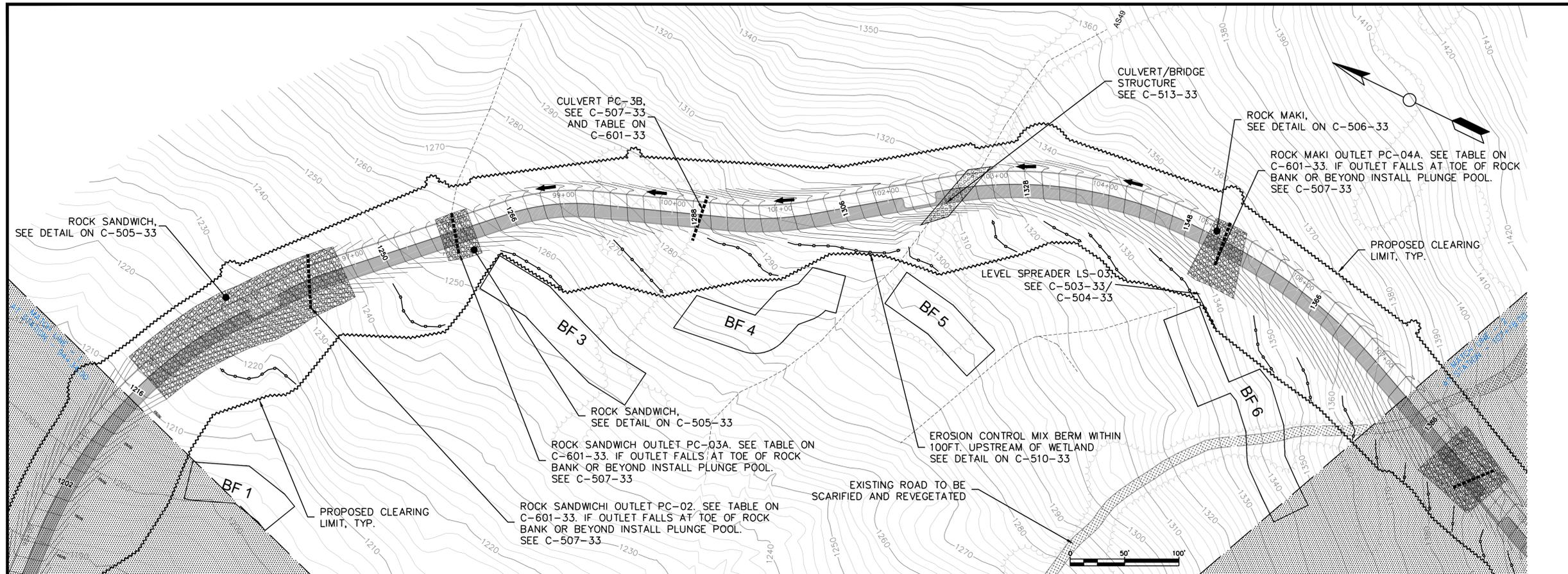
STA. 81+50 TO 94+34

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 19 OF 44	

Dwg No.:  
**C-301-33**



Access Road Alignment Profile  
Station 81+50.00 To Station 94+34.00



- GENERAL NOTES:**
1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
  2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
  3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
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  5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
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  7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

PATRIOT RENEWABLES

ENGINEERING & MANAGEMENT SERVICES, INC.  
545 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608

Stamp:

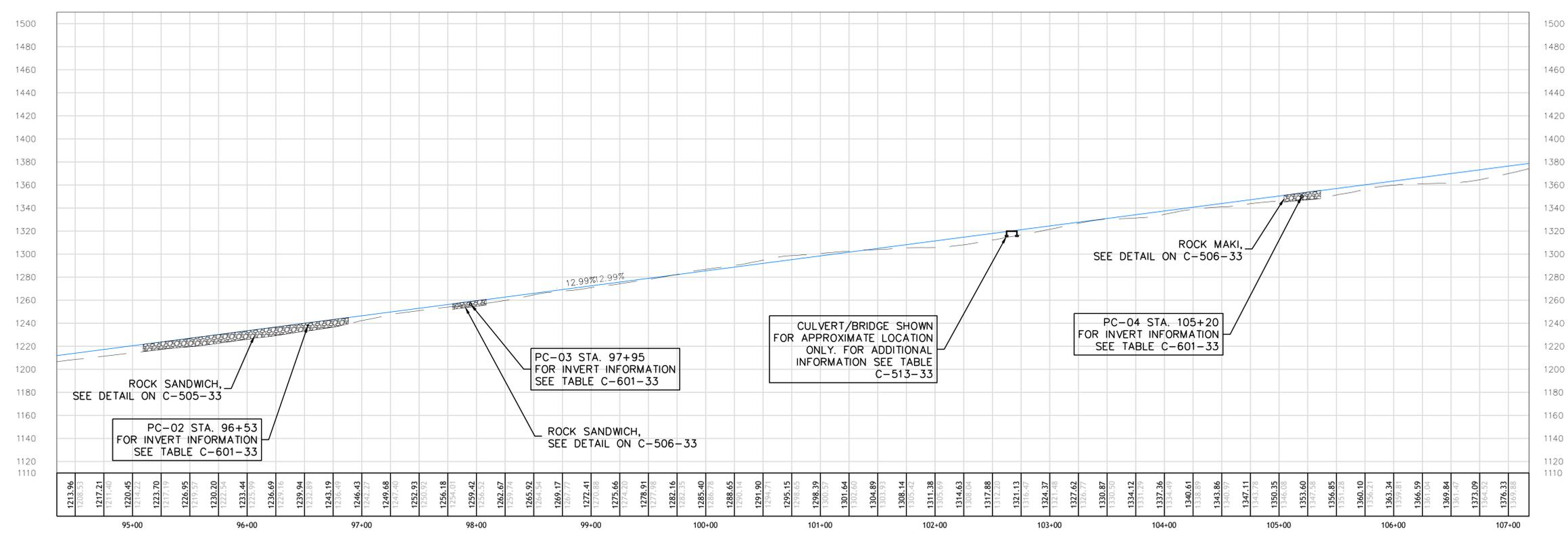
Drawing Title:  
**ACCESS ROAD PLAN AND PROFILE**

STA. 94+34 TO 107+18

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		

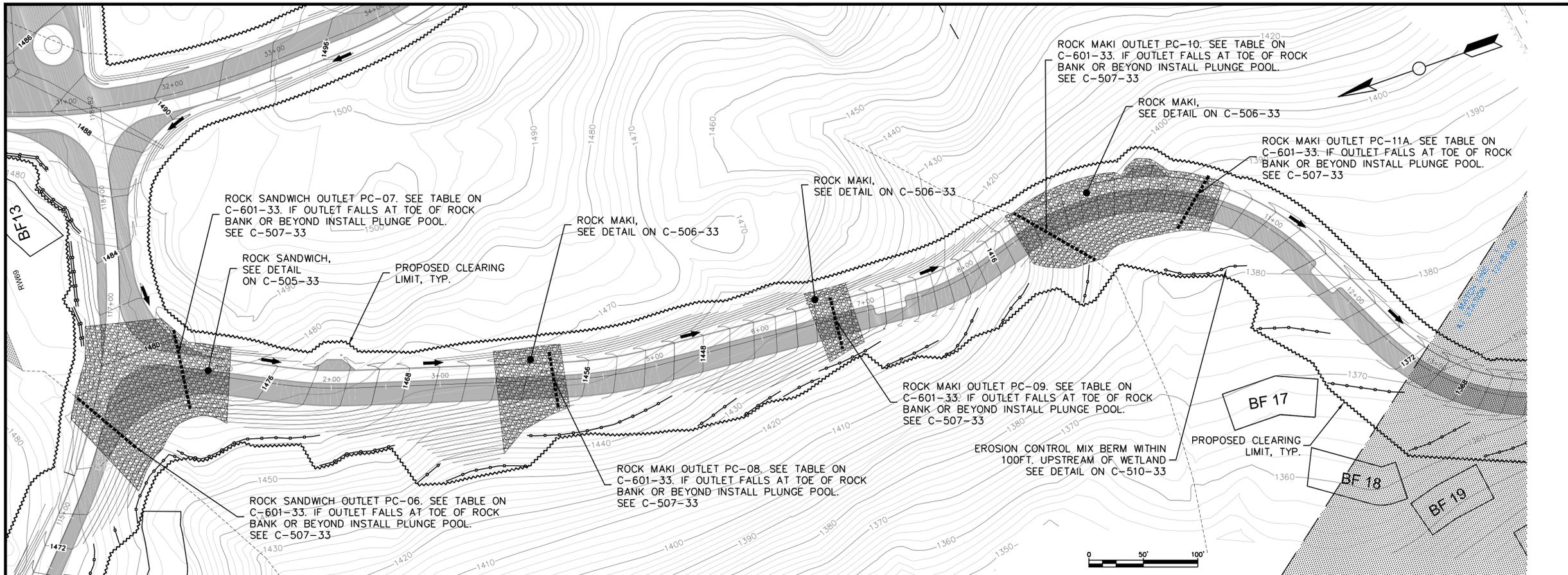
Sheet Number:  
20 OF 44

Dwg No.:  
**C-302-33**



Access Road Alignment Profile  
Station 94+34.00 To Station 107+18.00





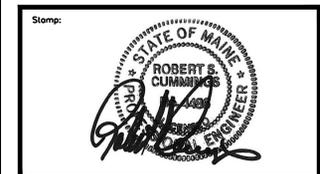
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

**EMS**

ENGINEERING & MANAGEMENT SERVICES, INC.  
 545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608



Stamp:

Drawing Title:

**LOWER CRANE ROAD PLAN AND PROFILE**

STA. 0+00 TO 12+84

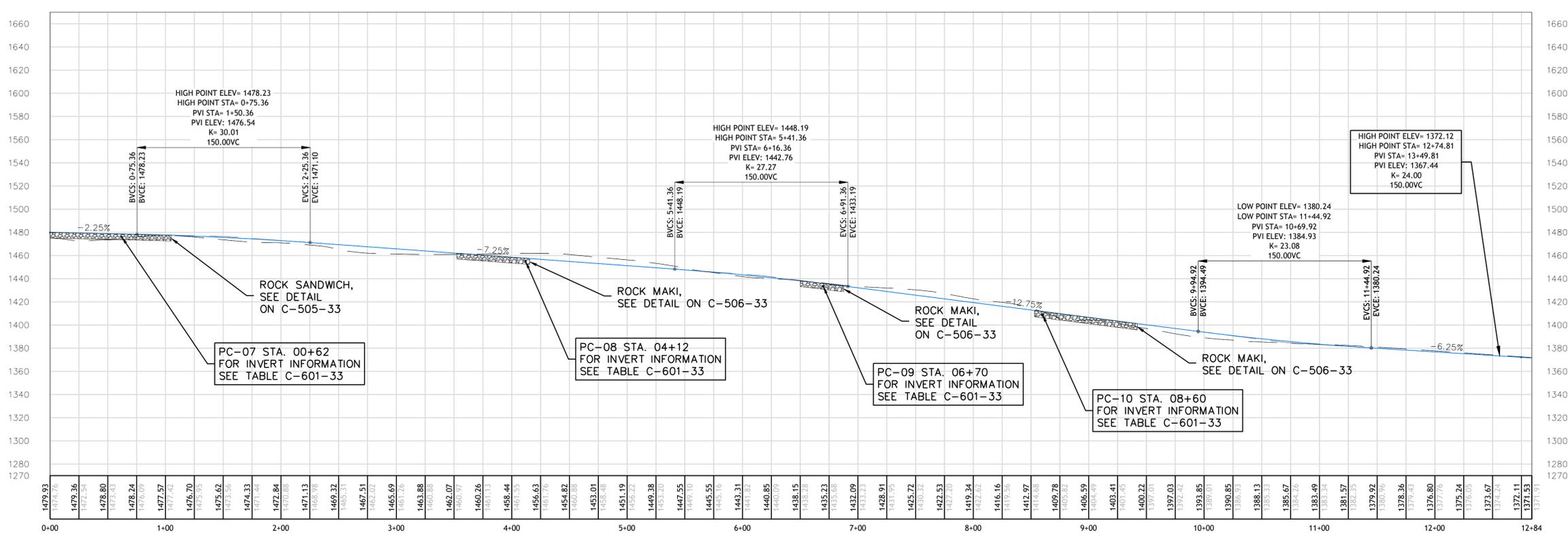
Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC

Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

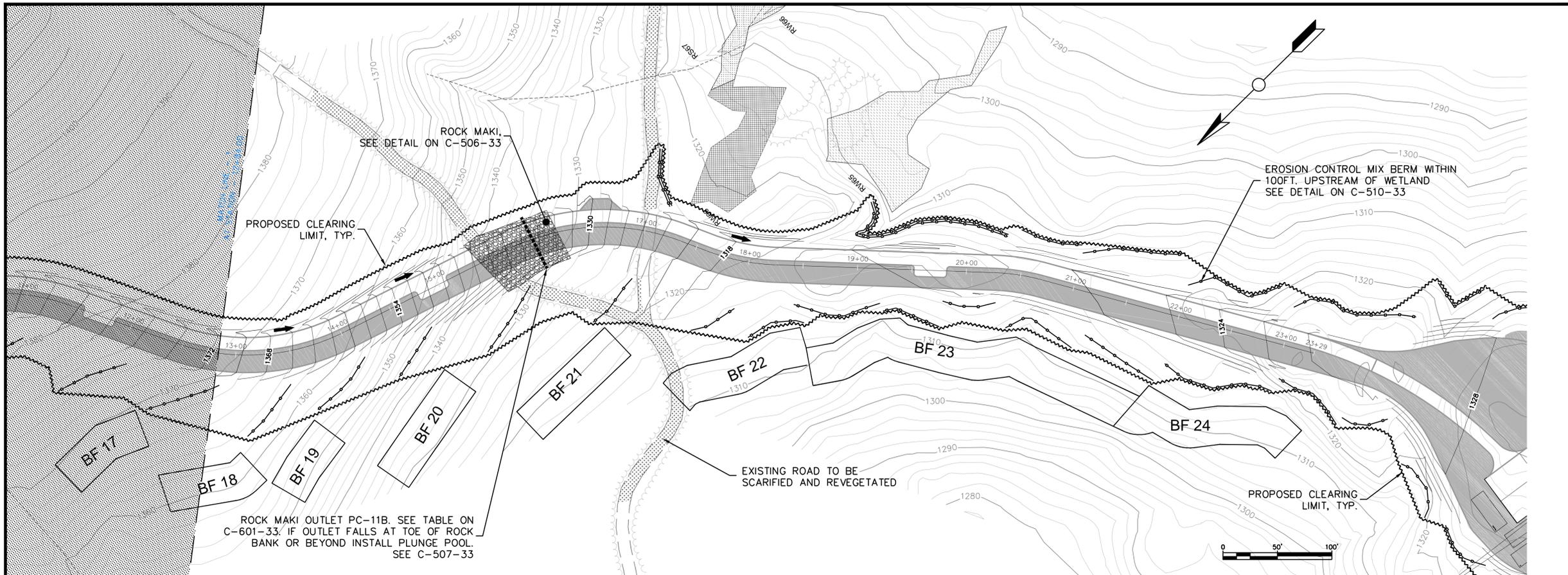
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 22 OF 44

Dwg No.: C-304-33



Lower Ridge Road Alignment Profile  
Station 0+00.00 To Station 12+84.00



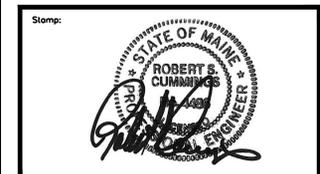
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**

ENGINEERING & MANAGEMENT SERVICES, INC.  
 545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

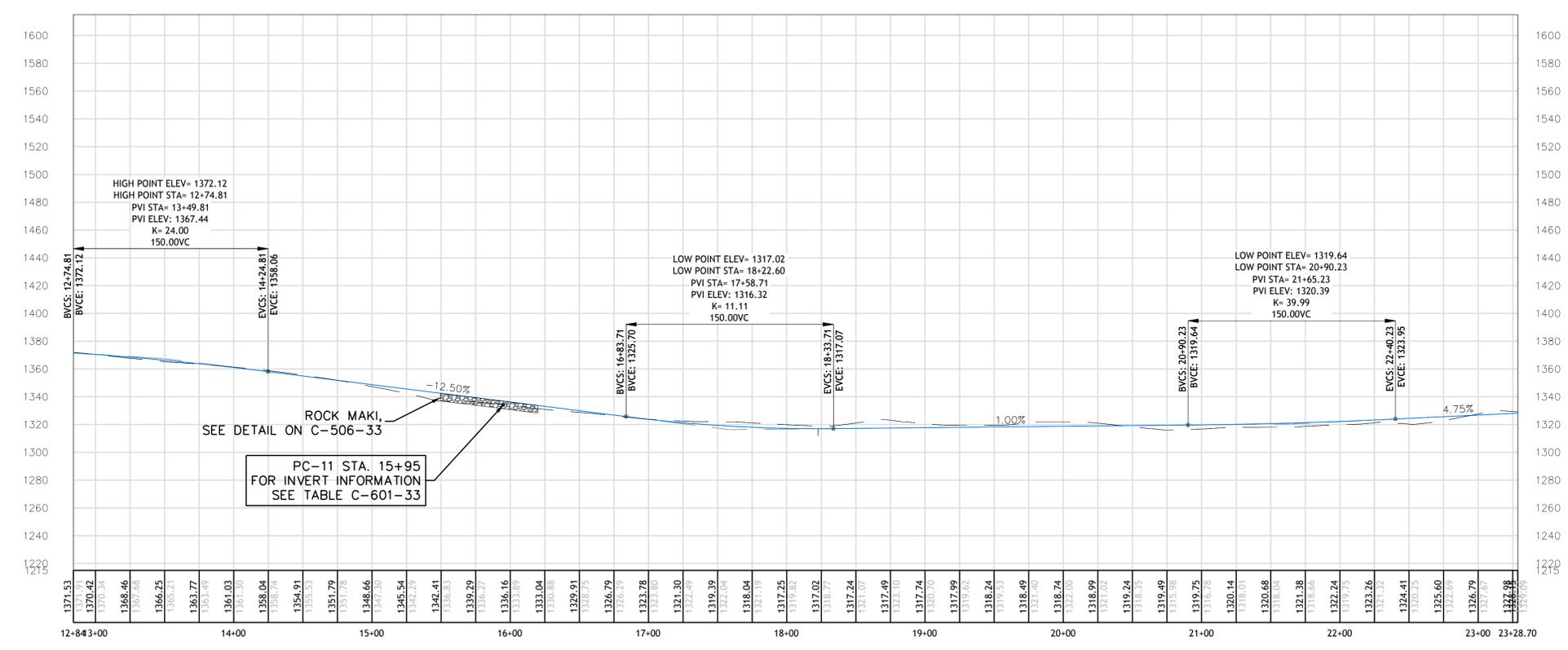


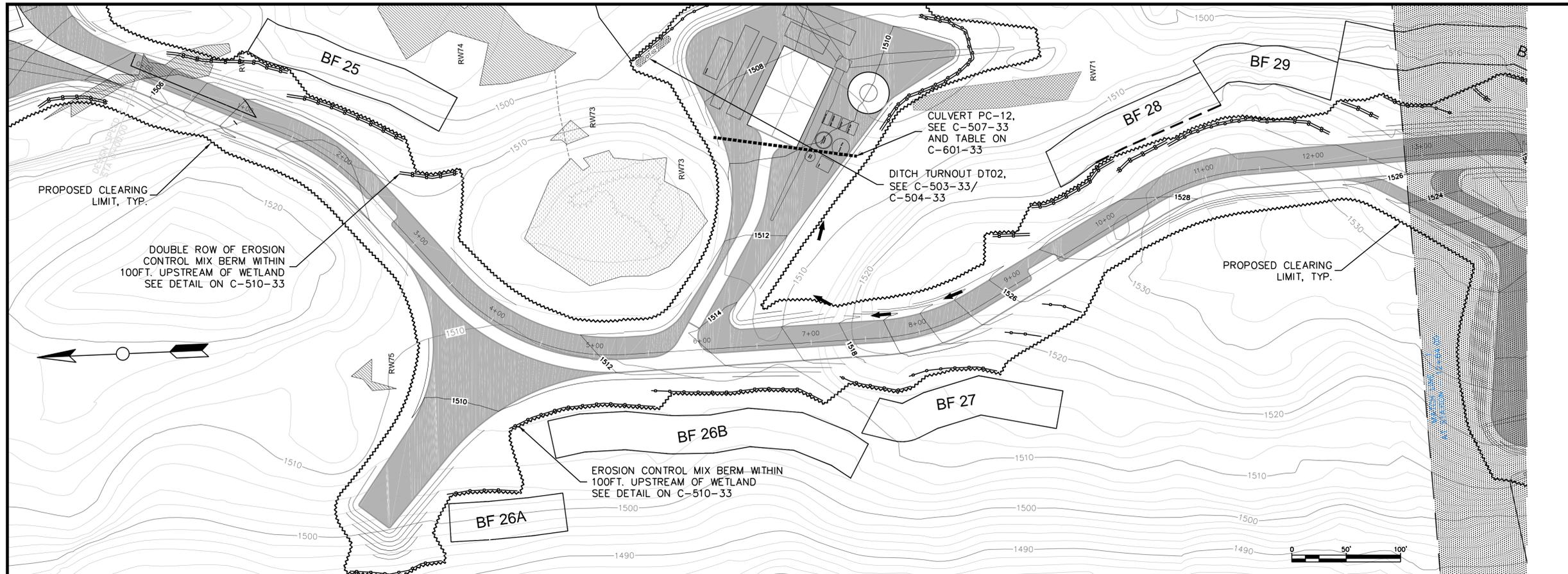
Drawing Title:

**LOWER CRANE ROAD PLAN AND PROFILE**

STA. 12+84 TO 23+28.70

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC
Project:	
CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client:	
CANTON MOUNTAIN WIND, LLC	
Sheet Number:	
23 OF 44	





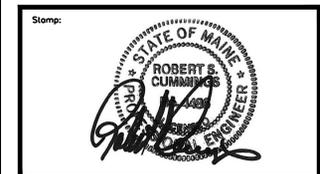
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

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 549 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608



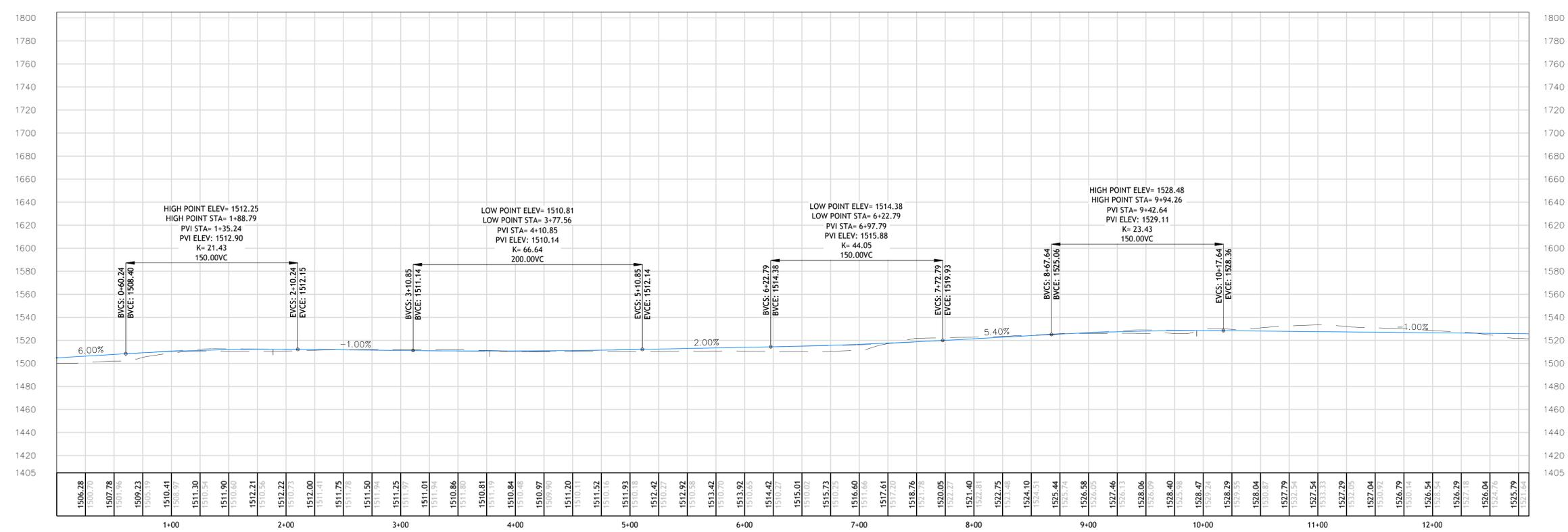
Drawing Title:  
**RIDGE ROAD PLAN AND PROFILE**

STA. 0+00 TO 12+84

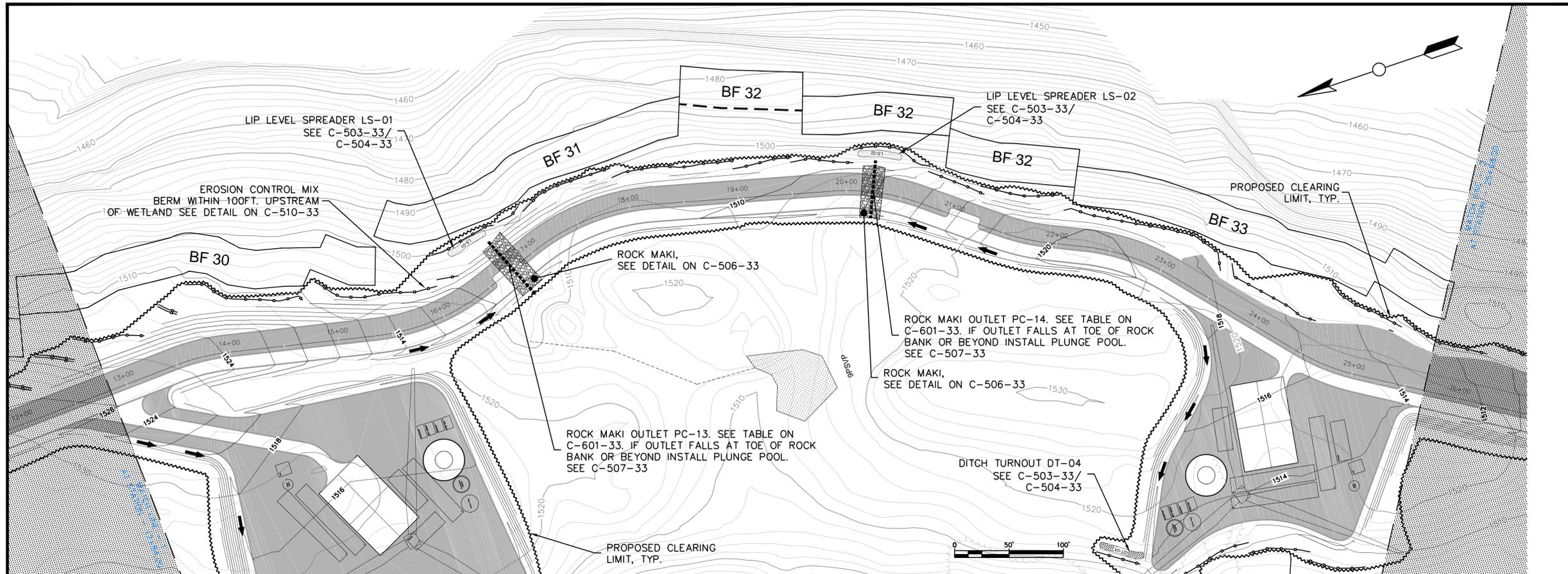
Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	

Sheet Number:  
 24 OF 44

Draw No.:  
**C-306-33**



Ridge Road Alignment Profile  
 Station 0+00.00 To Station 12+84.00

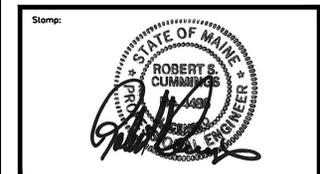


- GENERAL NOTES:**
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
545 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608



Drawing Title:  
**RIDGE ROAD PLAN AND PROFILE**

STA. 12+84 TO 25+68

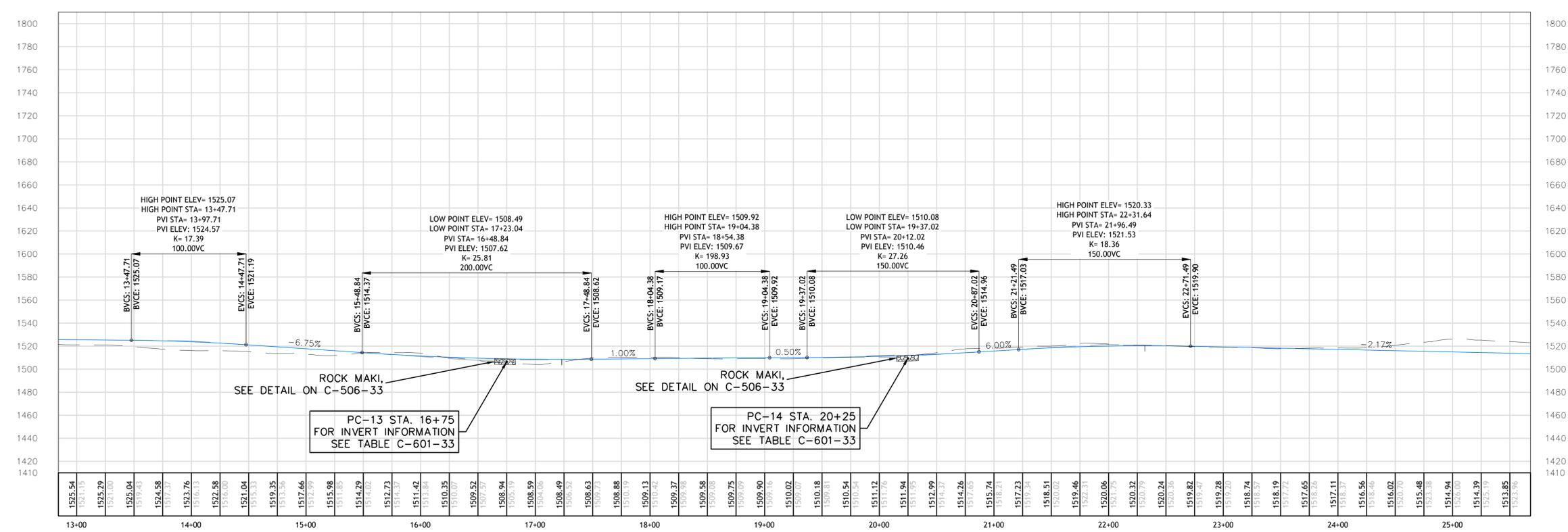
Date: 12/15/11  
Scale: AS SHOWN

Drawn By: GAD  
Chk'd By: RSC

Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

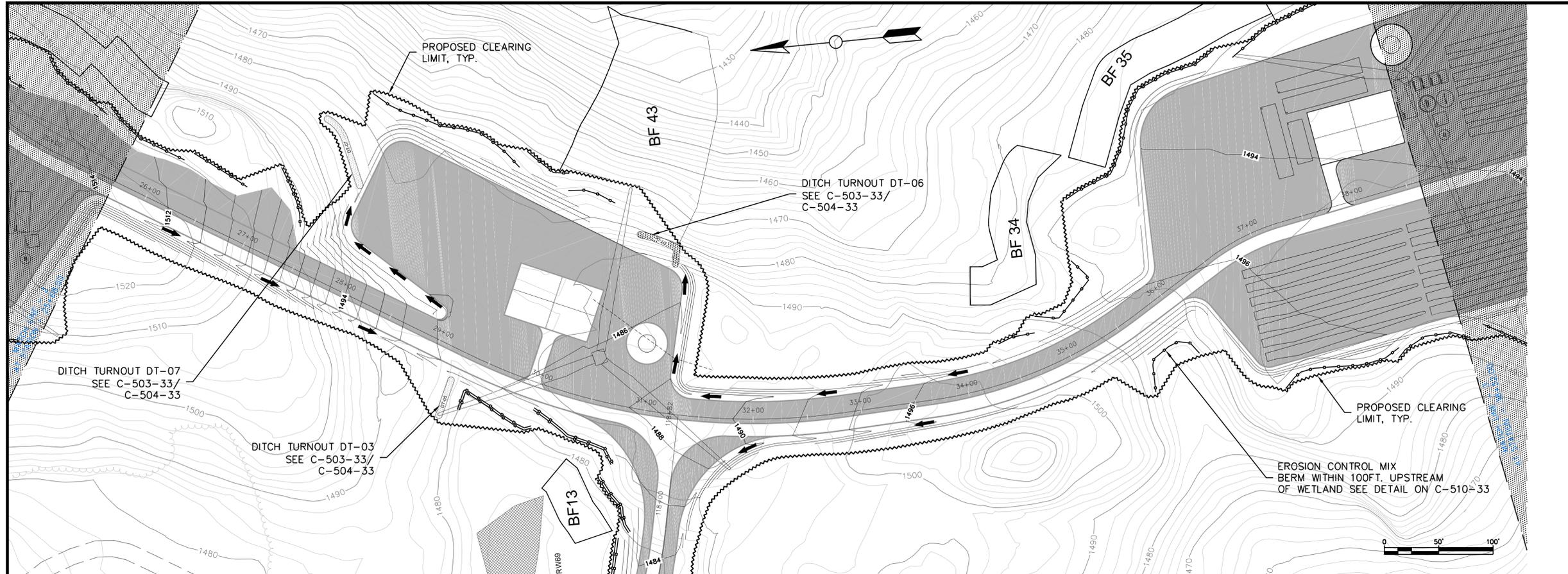
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 25 OF 44

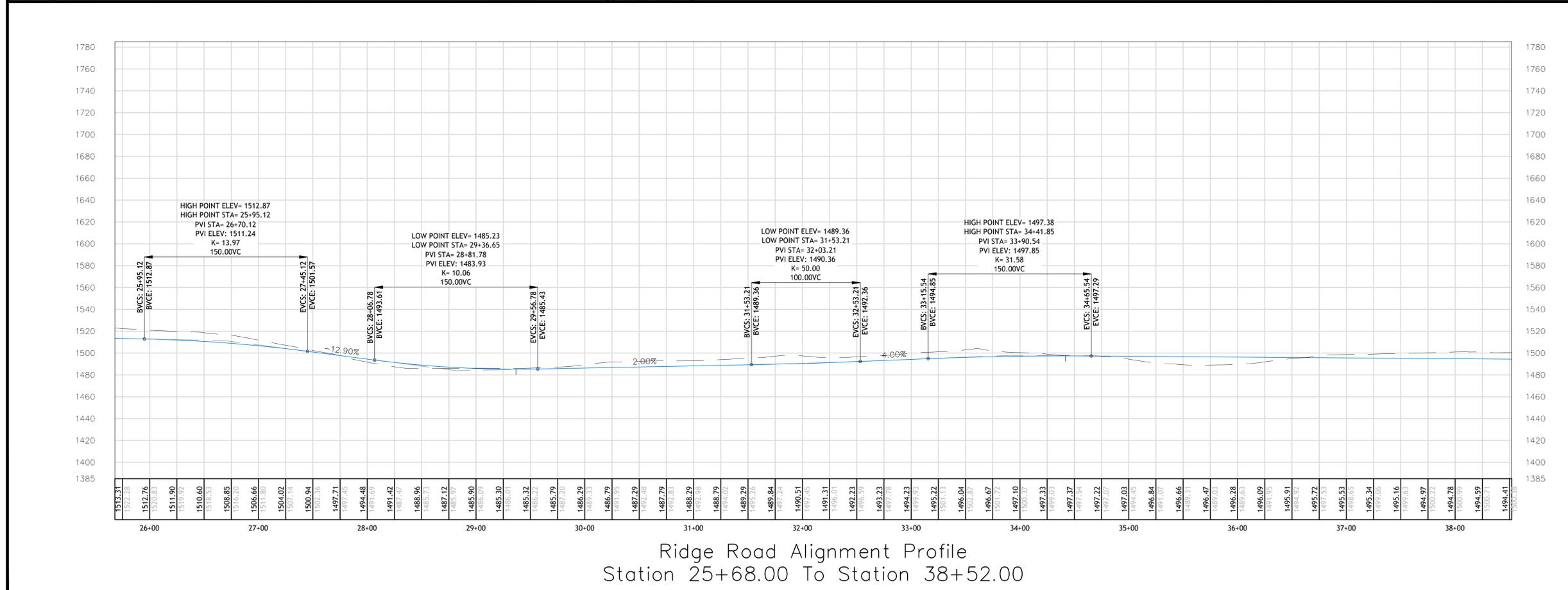


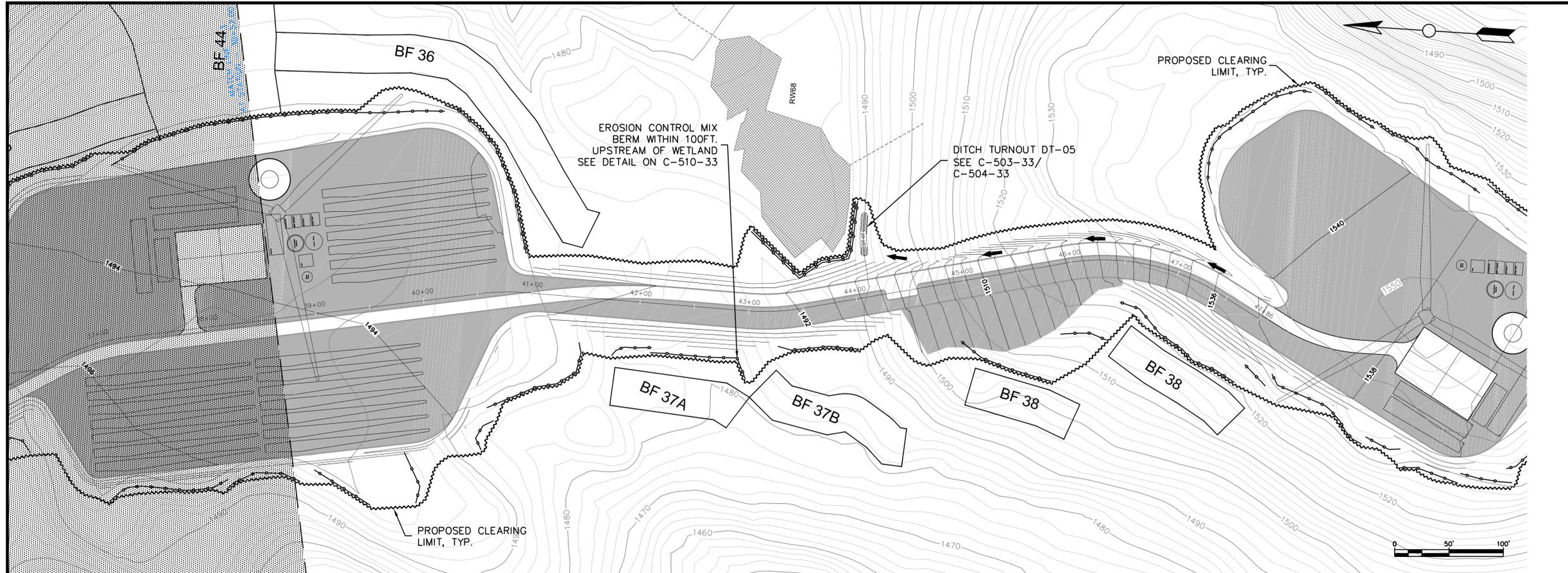
Ridge Road Alignment Profile  
Station 12+84.00 To Station 25+68.00

Dwg No.: C-307-33



- GENERAL NOTES:**
1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
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- | No. | Revision/Issue | Date     |
|-----|----------------|----------|
| A   | DEP REVISIONS  | 06/13/12 |





**GENERAL NOTES:**

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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12


**PATRIOT RENEWABLES**  
  
**ENGINEERING & MANAGEMENT SERVICES, INC.**  
545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608

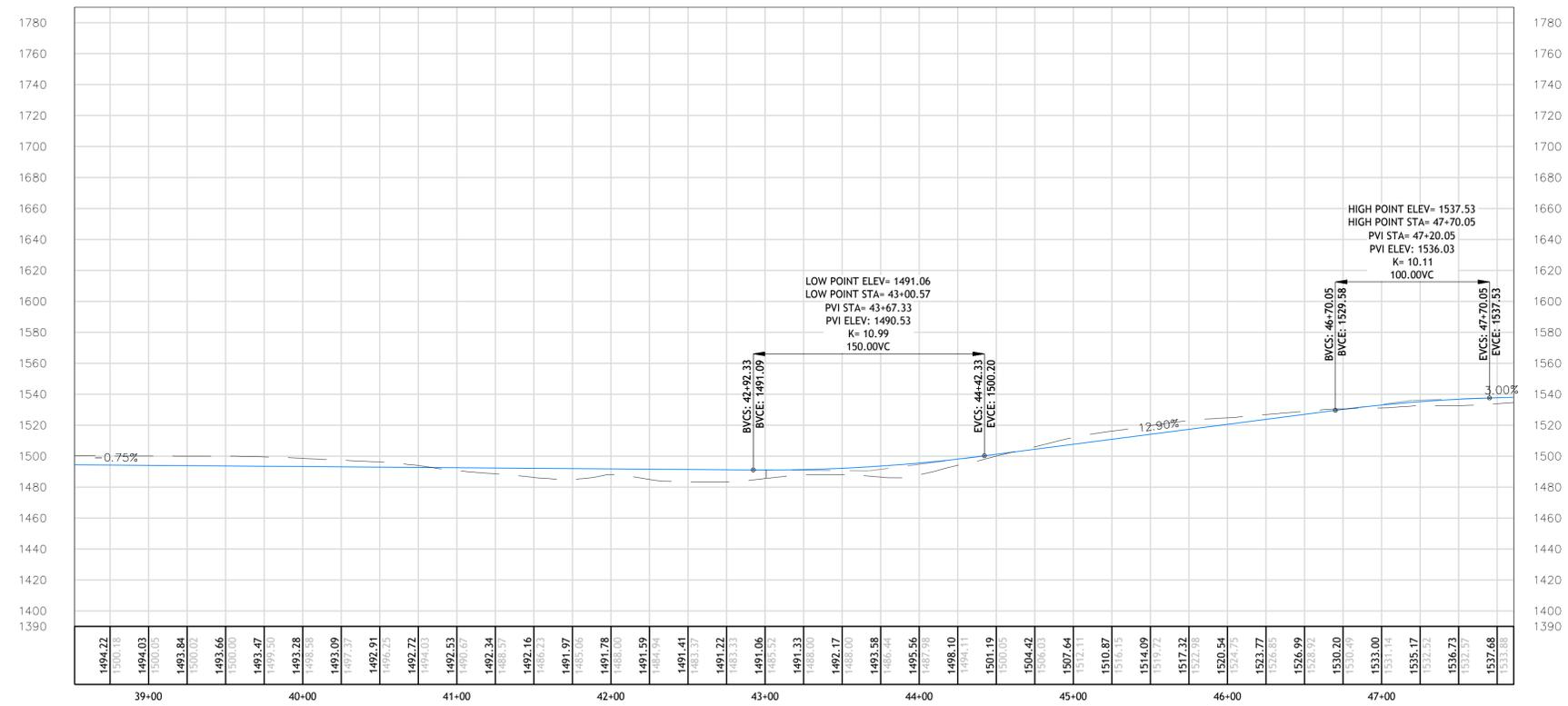
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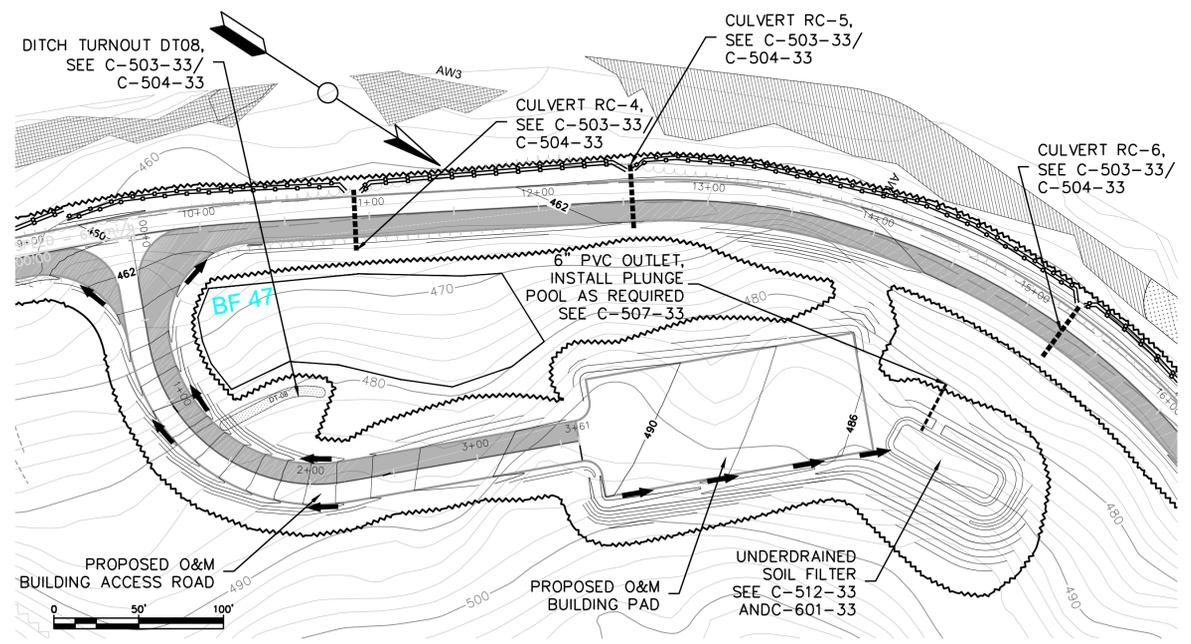
Drawing Title:  
**RIDGE ROAD PLAN AND PROFILE**  
 STA. 38+52 TO 47+85.69

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 27 OF 44	

Des No.:  
**C-309-33**



Ridge Road Alignment Profile  
 Station 38+52.00 To Station 47+85.69



**GENERAL NOTES:**

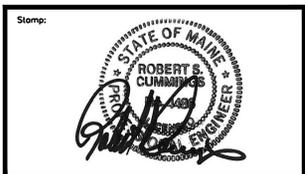
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**

ENGINEERING & MANAGEMENT SERVICES, INC.  
 545 SOUTH STREET, QUINCY, MA 02169  
 TEL: (617) 890-0600 FAX: (617) 890-0608



Drawing Title:

**O&M BUILDING PAD AND ACCESS ROAD**

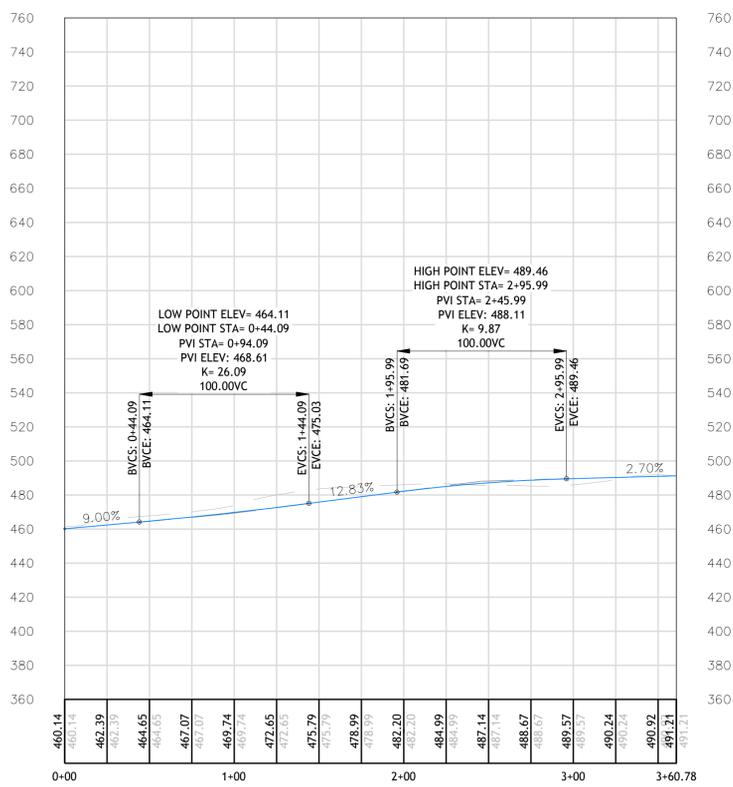
Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC

Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

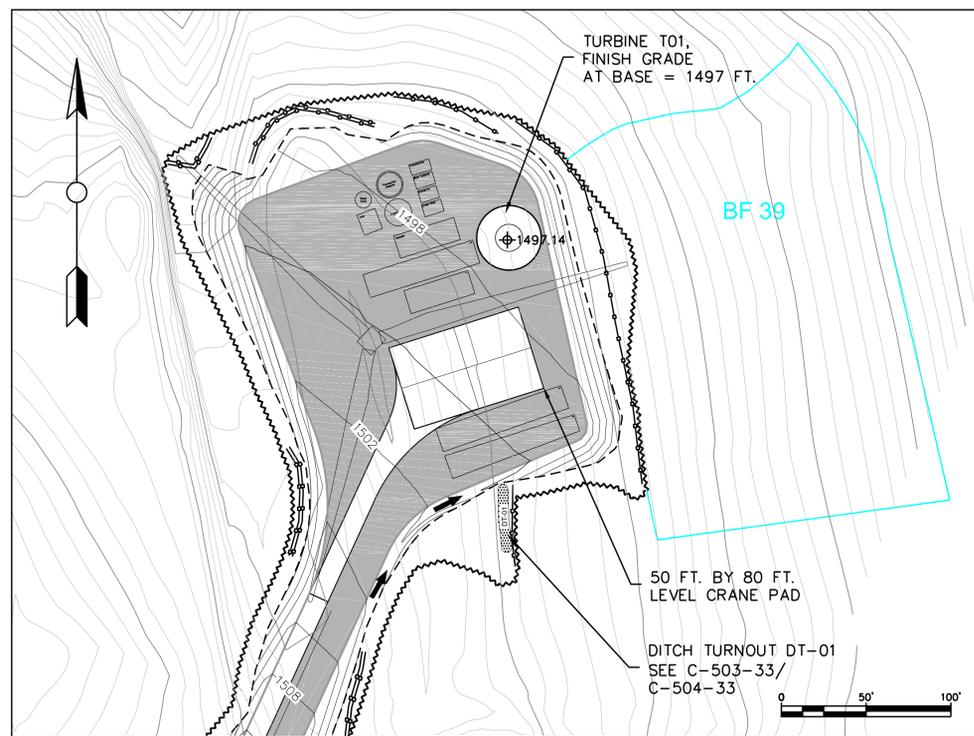
Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 28 OF 44

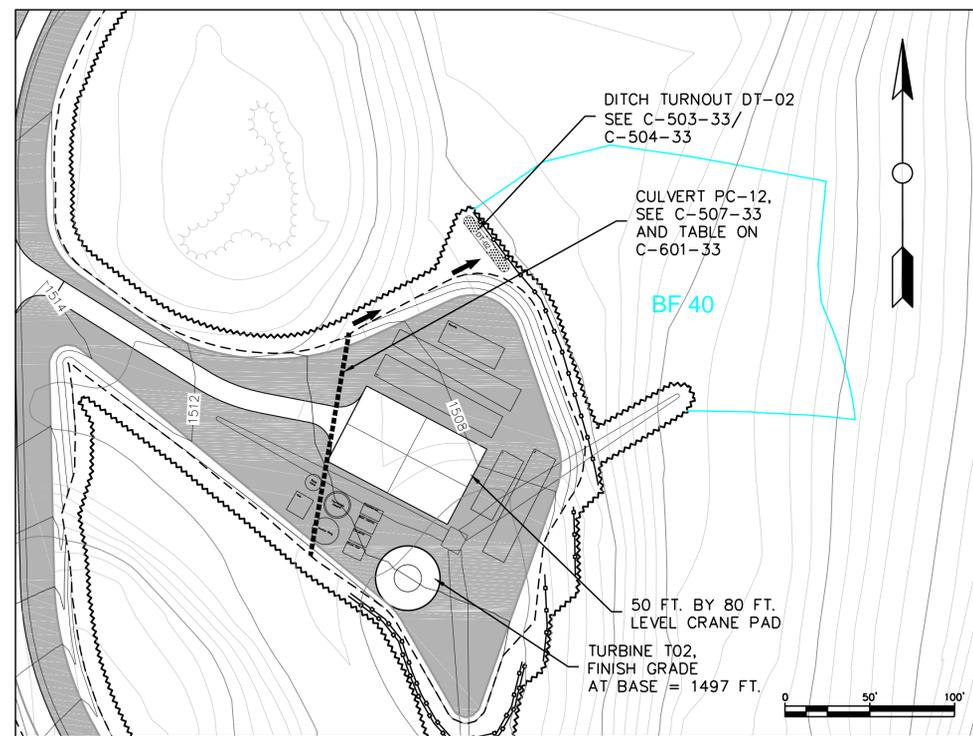
Dwg No.: C-401-33



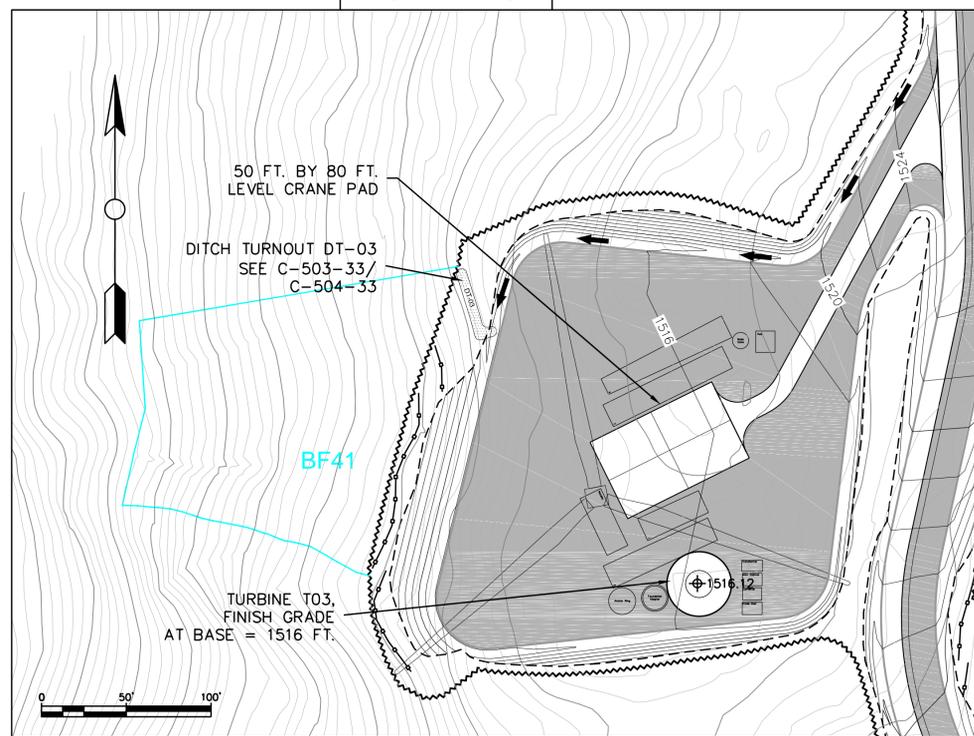
O&M Road PROFILE



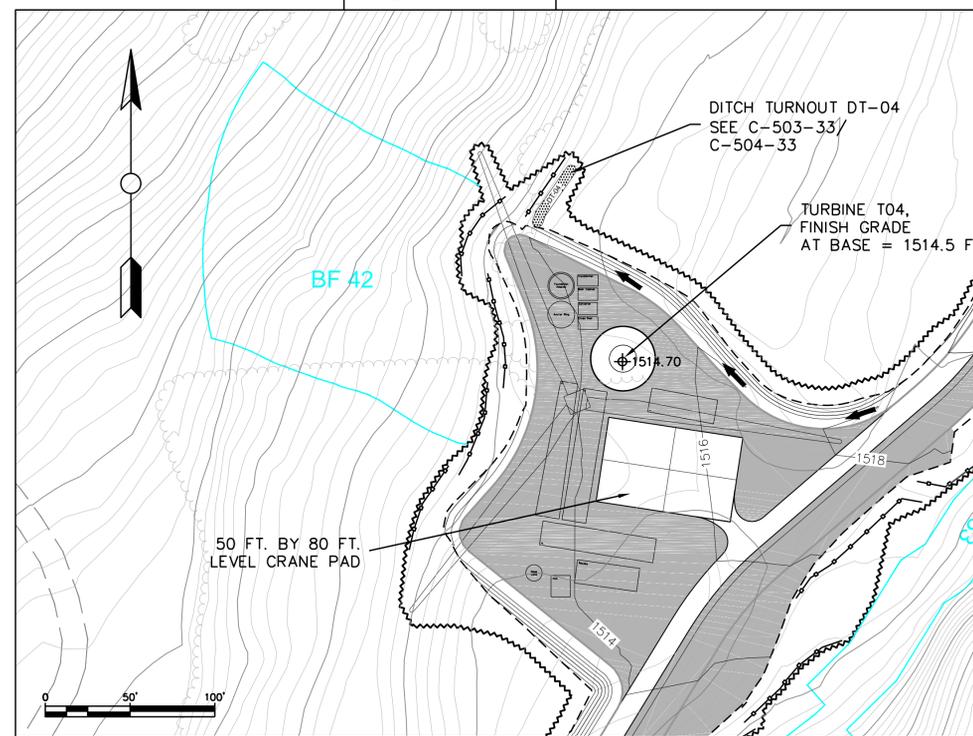
TURBINE 1



TURBINE 2



TURBINE 3



TURBINE 4

GENERAL NOTES:

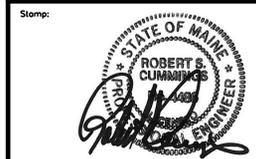
1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES



ENGINEERING & MANAGEMENT SERVICES, INC.  
545 SOUTH STREET, QUINCY, MA 02169  
TEL: (617) 890-0600 FAX: (617) 890-0608



Drawing Title:  
TURBINE PADS

Date: 12/15/11	Scale: AS SHOWN
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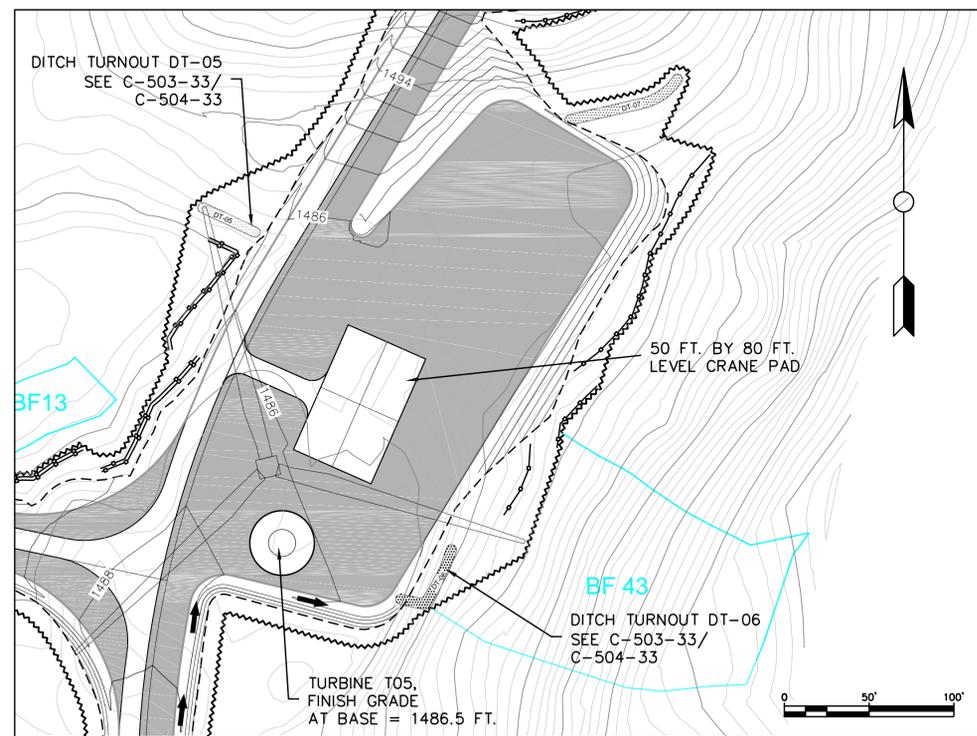
Drawn By: GAD	CHK'D By: RSC
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Project:  
CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

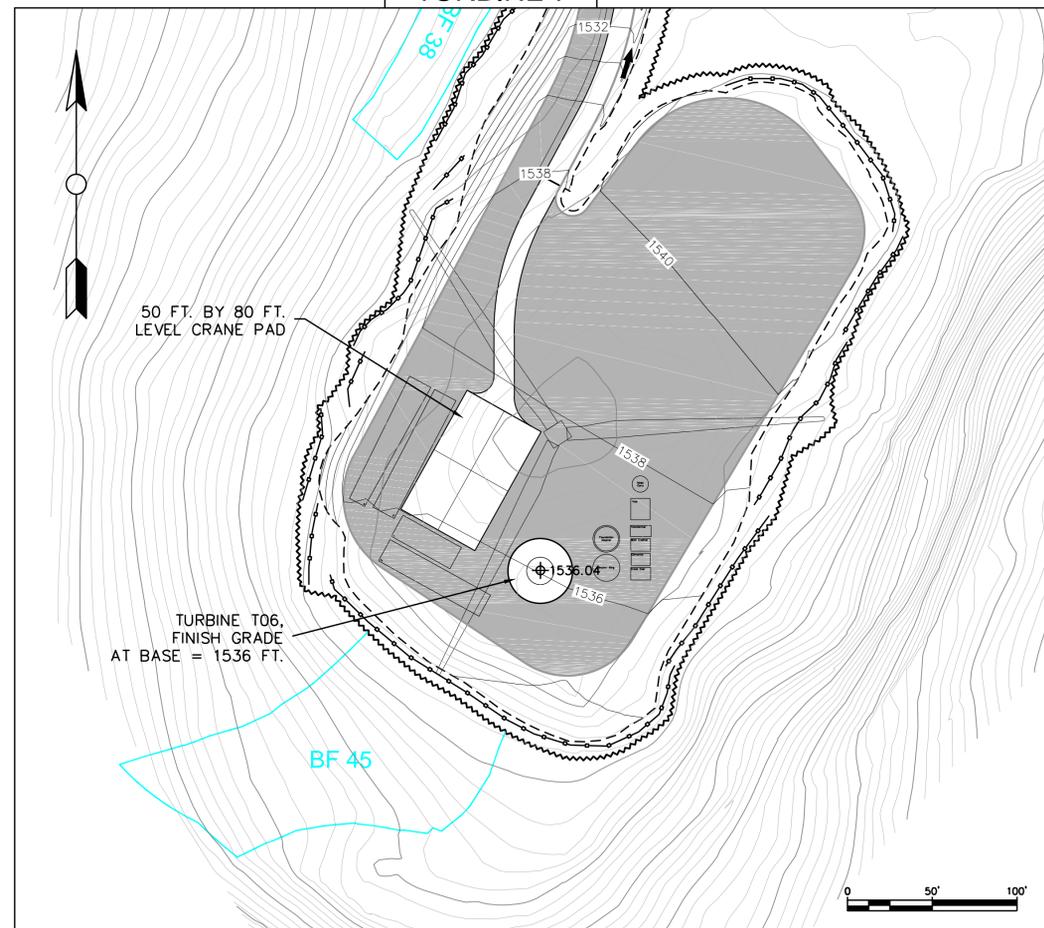
Client:  
CANTON MOUNTAIN WIND, LLC

Sheet Number:  
29 OF 44

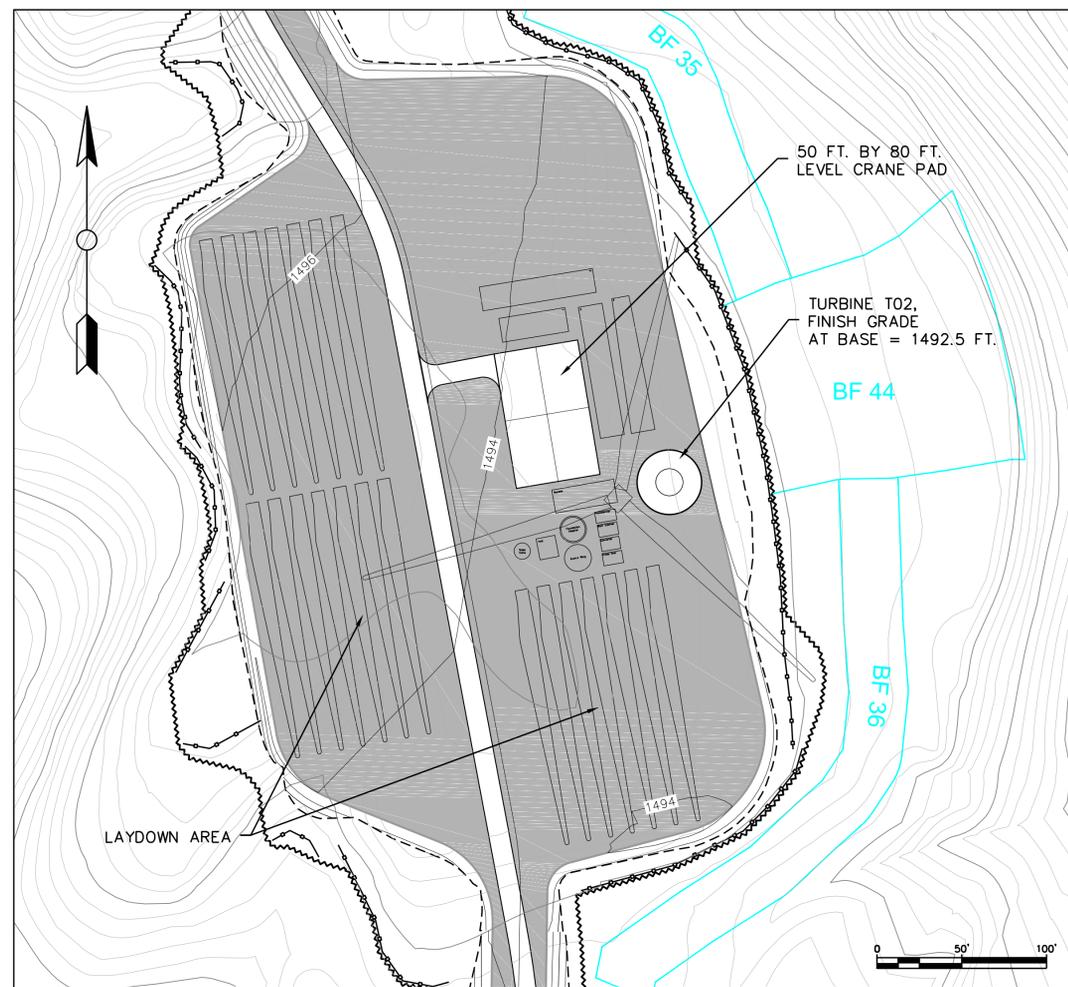
Dwg No.:  
C-402-33



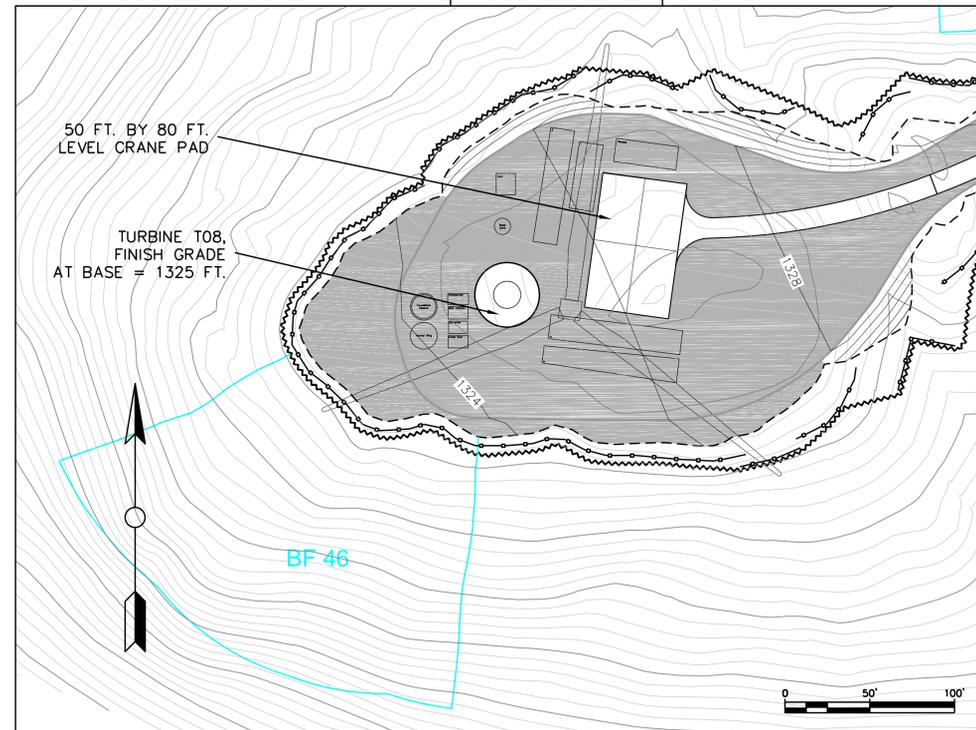
TURBINE 5



TURBINE 7



TURBINE 6



TURBINE 8

GENERAL NOTES:

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A	DEP REVISIONS	06/13/12

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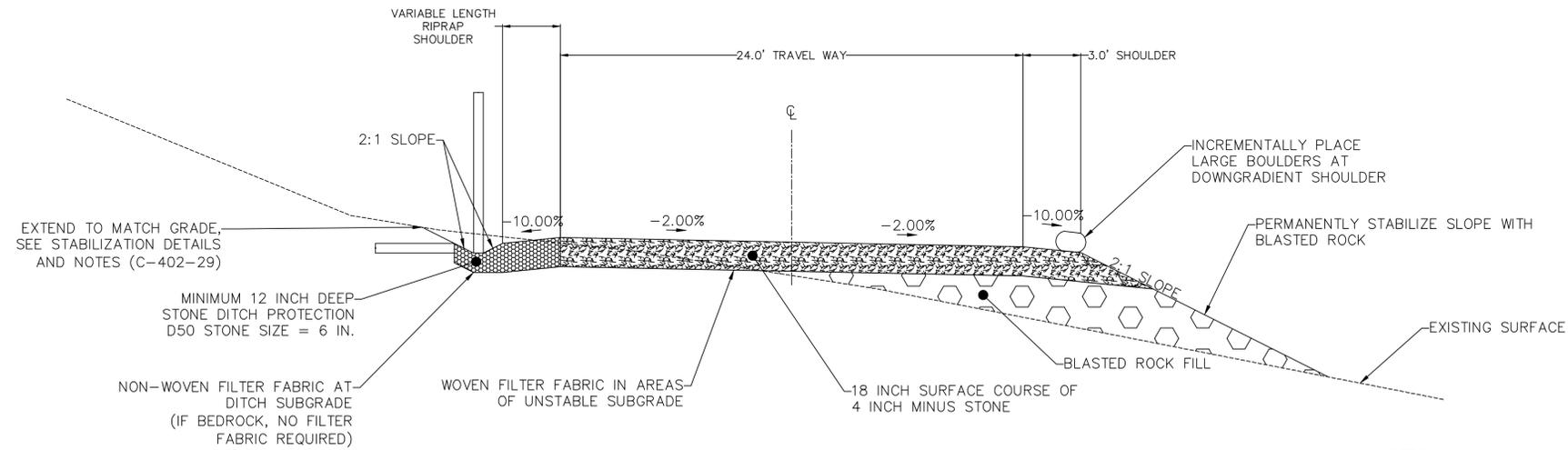
Stamp: STATE OF MAINE ROBERT S. CUMMINGS PROFESSIONAL ENGINEER

Drawing Title:  
TURBINE PADS

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	CHK'D By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 30 OF 44	

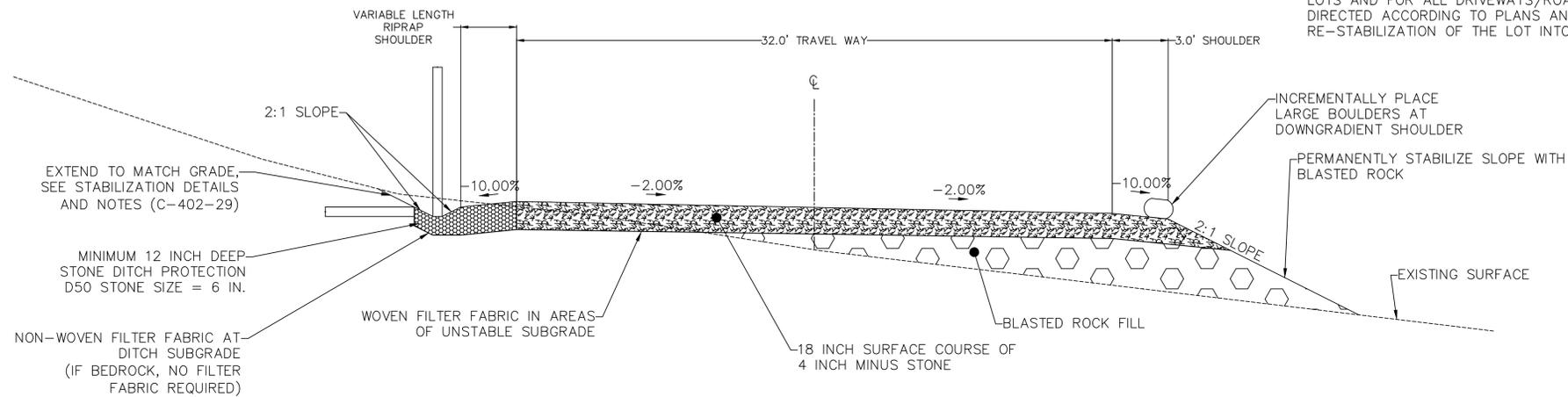
Dwg No.:  
C-403-33

## ACCESS AND CRANE ROAD DETAILS AND NOTES



24 FT ACCESS ROAD CROSS SECTION DETAIL  
NOT TO SCALE

- NOTES:
1. IN AREAS SHOWING A HIGH WATER TABLE, HIGH RUNOFF POTENTIAL, OR SUBSURFACE DRAINAGE FEATURES, ROCK SANDWICH AND ROCK MAKI SECTIONS SHOULD BE USED.
  2. SULFURIC ROCK AND ORE ROCK ARE NOT SUITABLE FOR USE IN ROAD SECTION.
  3. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
  4. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.
  5. INSPECTIONS BY A PROFESSIONAL ENGINEER WILL CONSIST OF A VISIT TO THE SITE PRIOR TO CONSTRUCTION TO CONSULT WITH THE EARTHWORK CONTRACTOR AND A POST CONSTRUCTION MEETING TO CONFIRM GRADING ON LOTS AND FOR ALL DRIVEWAYS/ROADS TO ENSURE RUNOFF IS DIRECTED ACCORDING TO PLANS AND TO OVERSEE THE RE-STABILIZATION OF THE LOT INTO A VEGETATED COVER.

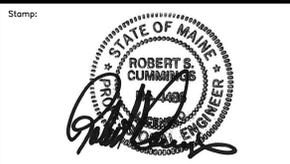


32 FT CRANE ROAD CROSS SECTION DETAIL  
NOT TO SCALE

### GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date



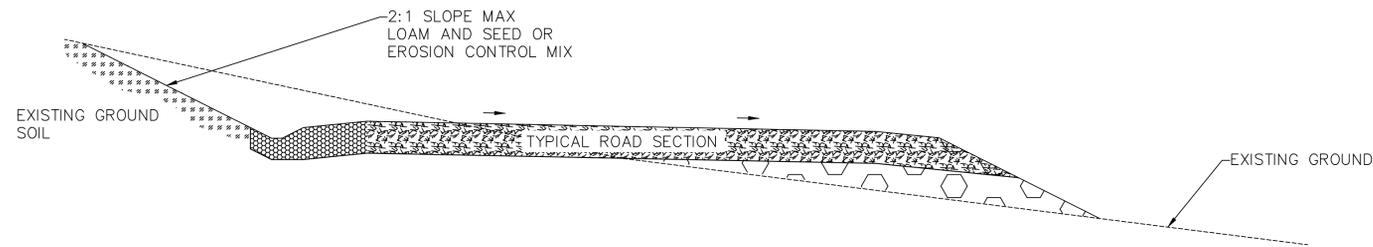
Drawing Title:  
**ACCESS AND CRANE  
ROADS  
DETAILS AND NOTES**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 31 OF 44	

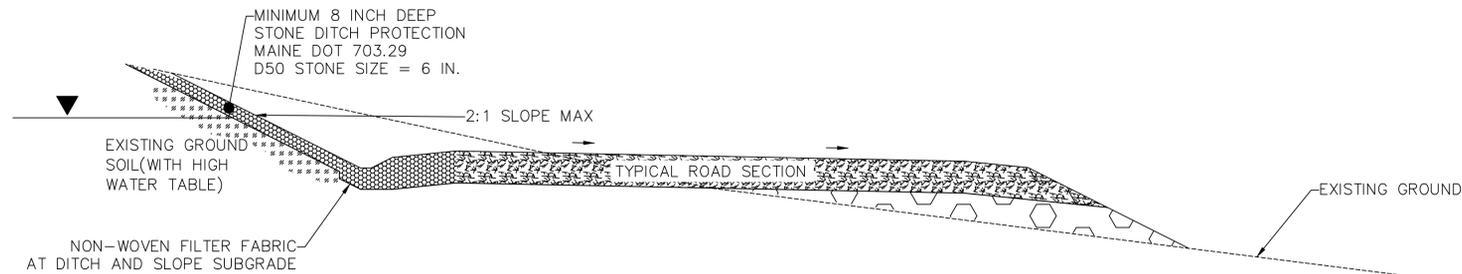
Dwg No.:  
**C-501-33**

## SLOPE STABILIZATION DETAILS AND NOTES

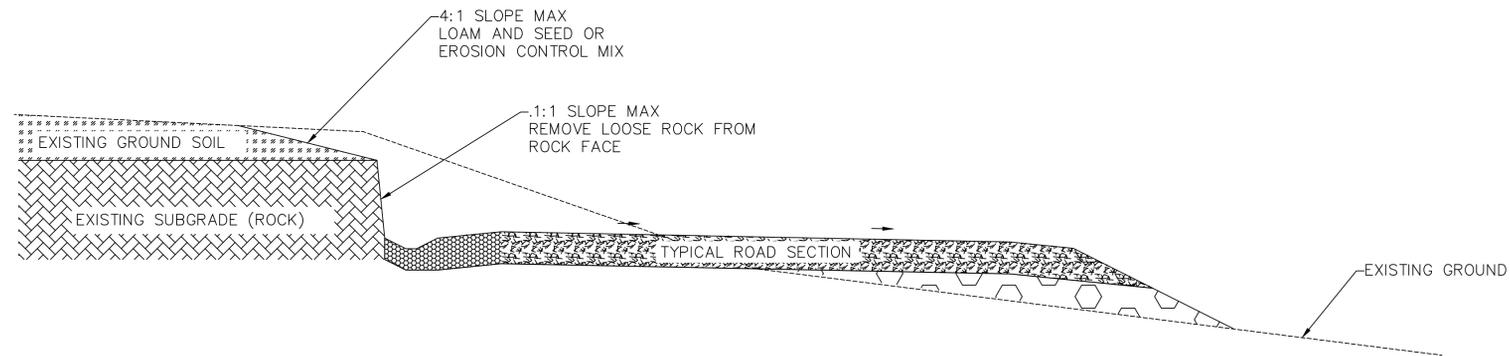
CUT SLOPE IN SOIL  
NOT TO SCALE



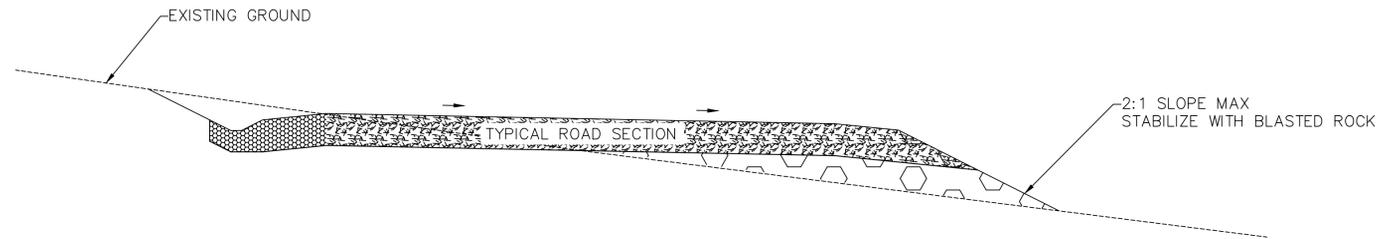
CUT SLOPE IN SOIL WITH HIGH WATER TABLE  
NOT TO SCALE



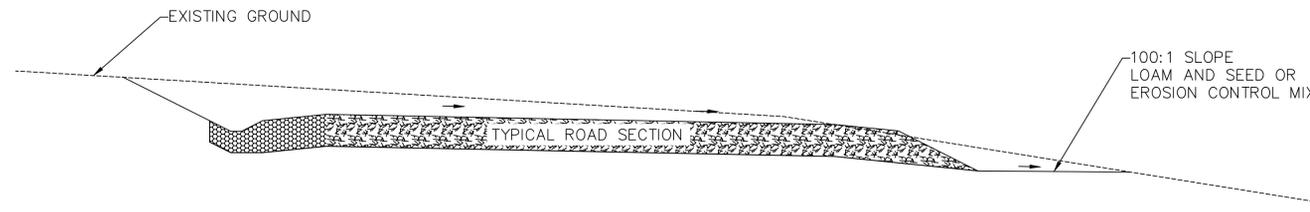
CUT SLOPE IN BEDROCK  
NOT TO SCALE



FILL SLOPE AT DOWNGRAIENT  
NOT TO SCALE



CUT SLOPE AT DOWNGRAIENT  
NOT TO SCALE



### GENERAL NOTES:

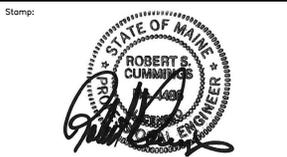
1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES



ENGINEERING & MANAGEMENT SERVICES, INC.  
546 SOUTH STREET SUITE 101  
CANTON, MA 01913  
TEL: (978) 890-0600 FAX: (978) 890-0606



Drawing Title:  
**ACCESS AND CRANE ROAD  
CUT AND FILL SLOPE  
STABILIZATION  
DETAILS AND NOTES**

Date:	Scale:
12/15/11	AS SHOWN
Drawn By:	Chk'd By:
GAD	RSC

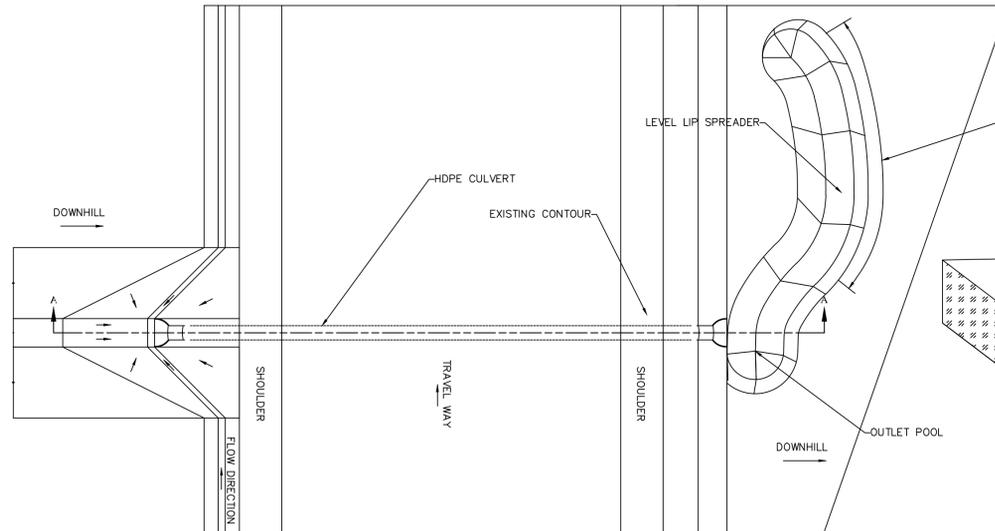
Project:  
CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

Client:  
CANTON MOUNTAIN WIND, LLC

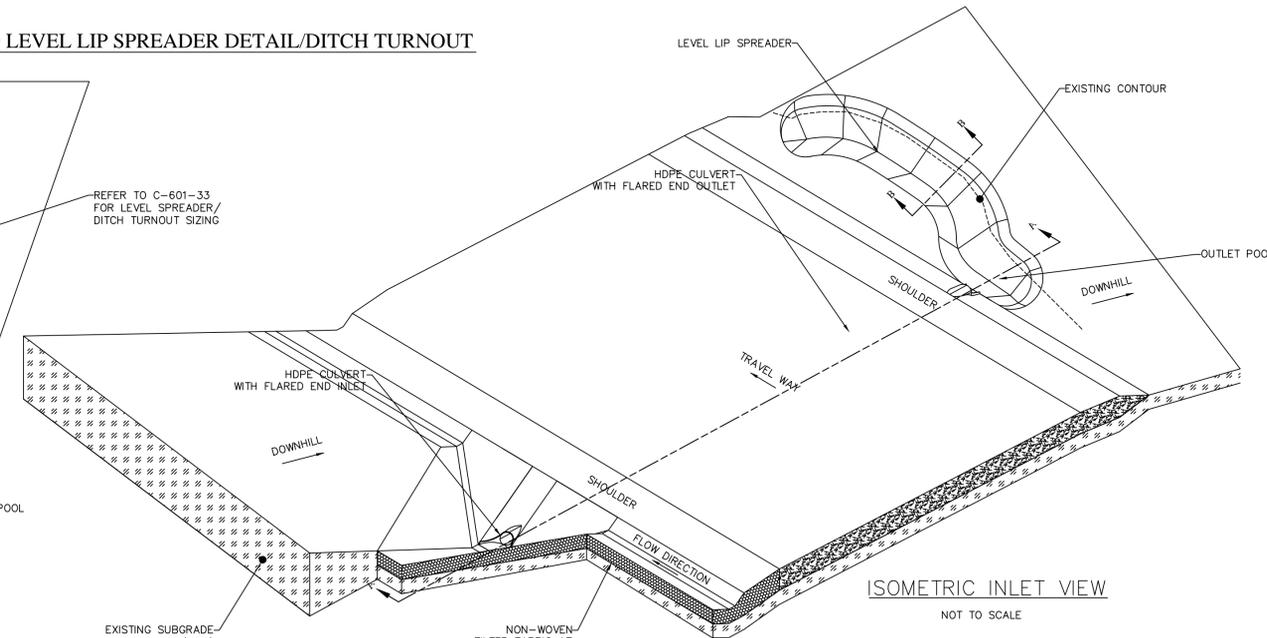
Sheet Number:  
32 OF 44

Dwg No.:  
**C-502-33**

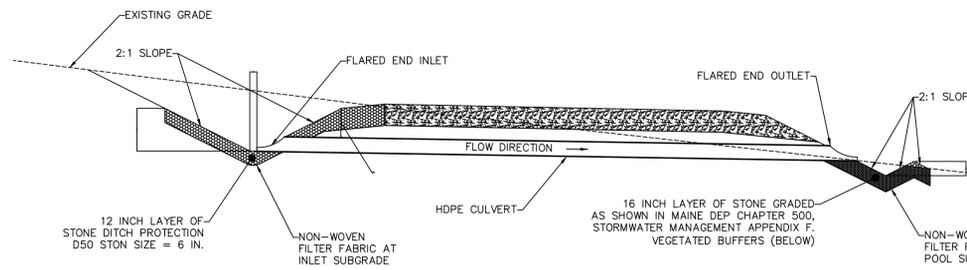
**CULVERT AND LEVEL LIP SPREADER DETAIL/DITCH TURNOUT**



**PLAN VIEW**  
NOT TO SCALE



**ISOMETRIC INLET VIEW**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

MAINE DEP  
CHAPTER 500, STORMWATER MANAGEMENT  
APPENDIX F, VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84-100
3 IN.	68-83
1 IN.	42-55
NO.4	8-12

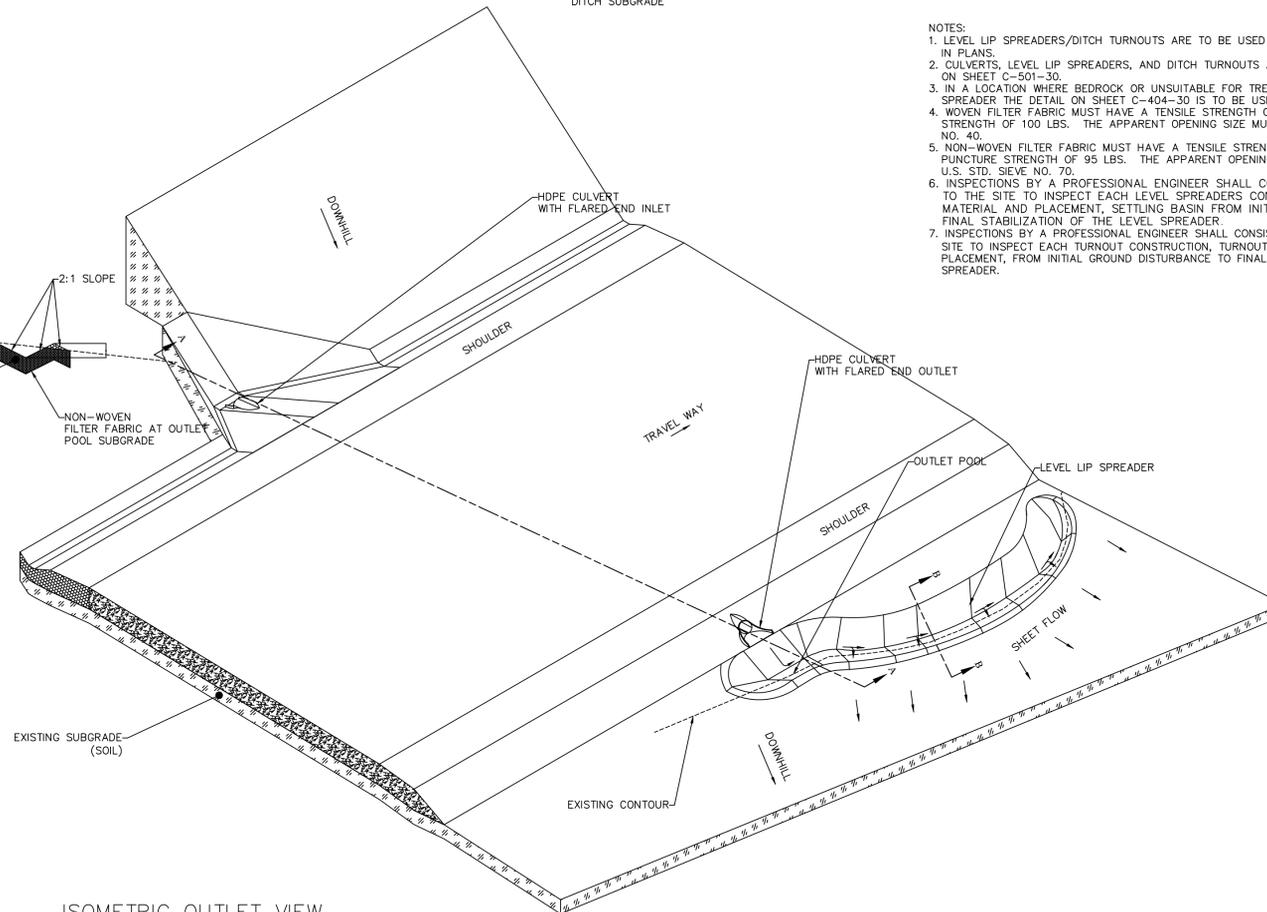
**REPLACEMENT CULVERT NOTES:**

**STREAM CROSSING CULVERT REPLACEMENT MUST:**

1. BE LIMITED TO 75 FEET IN LENGTH. THIS LIMIT MAY NOT BE EXCEEDED WITHIN A HALF-MILE LENGTH OF THE STREAM OR WITHIN THE LENGTH OF STREAM CONTROLLED BY THE APPLICANT
2. FOLLOW THE ALIGNMENT AND GRADE OF THE EXISTING STREAM CHANNEL WHERE POSSIBLE. ON PERENNIAL STREAMS THE CULVERT'S GRADIENT MAY NOT EXCEED 1%
3. HAVE THE BOTTOM OF THE ENTIRE CULVERT INSTALLED AT OR BELOW STREAM BED ELEVATION, EXCEPT FOR ADDITIONAL CULVERTS AT THE SAME CROSSING
4. WHERE TWO OR MORE CULVERTS ARE INSTALLED, BE OFFSET IN ORDER TO CONCENTRATE LOW FLOWS INTO THE CULVERT WITHIN THE NATURAL CHANNEL; BE SEATED ON FIRM GROUND, OR ON GEOTEXTILES, LOSS OR OTHER MATERIALS USED TO STABILIZE THE GROUND
5. BE COVERED BY SOIL TO A MINIMUM DEPTH OF 1 FOOT OR ACCORDING TO THE CULVERT MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER
6. HAVE THE SOIL COMPACTED AT LEAST HALFWAY UP THE SIDE OF THE CULVERT
7. HAVE THE INLET AND OUTLET ENDS STABILIZED BY RIPRAP IN ACCORDANCE WITH SECTION 8 SHORELINE STABILIZATION STANDARDS TO AVOID EROSION OF MATERIAL AROUND THE CULVERT
8. MUST OCCUR BETWEEN OCTOBER 2 AND JULY 14, OR A TIME PERIOD APPROVED BY THE DEP WHEN THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK - THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR AN ALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.

**STREAM CROSSING AND DRAINAGE CULVERT REPLACEMENT MUST:**

9. HAVE EXCAVATED MATERIAL STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.
10. USE UNTRATED LUMBER FOR TIMBER MATING. LUMBER PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) MAY BE USED ONLY IF NECESSARY AND ONLY IF USE IS ALLOWED UNDER FEDERAL LAW AND NOT PROHIBITED FROM SALE UNDER 38 M.R.S.A. 1682, AND PROVIDED IT IS CURED ON DRY LAND IN A WAY THAT EXPOSES ALL SURFACES TO THE AIR FOR A PERIOD OF AT LEAST 21 DAYS PRIOR TO CONSTRUCTION. WOOD TREATED WITH CREOSOTE OR PENTACHLOROPHENOL MAY NOT BE USED WHERE IT WILL CONTACT WATER.



**ISOMETRIC OUTLET VIEW**  
NOT TO SCALE

**NOTES:**

1. LEVEL LIP SPREADERS/DITCH TURNOUTS ARE TO BE USED AT LOCATIONS SPECIFIED IN PLANS.
2. CULVERTS, LEVEL LIP SPREADERS, AND DITCH TURNOUTS ARE TO BE SIZED AS SHOWN ON SHEET C-501-30.
3. IN A LOCATION WHERE BEDROCK OR UNSUITABLE FOR TRENCHING IN A LEVEL LIP SPREADER THE DETAIL ON SHEET C-404-30 IS TO BE USED.
4. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
5. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.
6. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH LEVEL SPREADERS CONSTRUCTION, STONE BERM MATERIAL AND PLACEMENT, SETTLING BASIN FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
7. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH TURNOUT CONSTRUCTION, TURNOUT'S STONE BERM MATERIAL AND PLACEMENT, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.

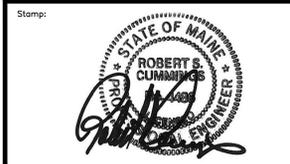
**GENERAL NOTES:**

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2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
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6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
548 SOUTH STREET SUITE 101  
TEL: (617) 880-0600 FAX: (617) 880-0600

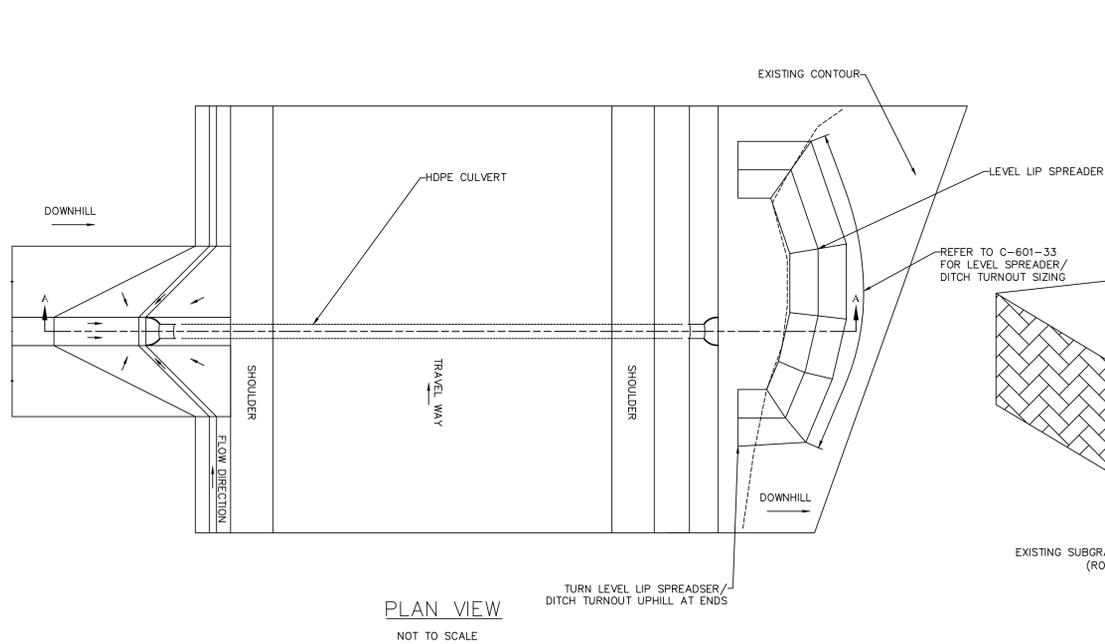


Drawing Title:  
**CULVERT AND LEVEL LIP SPREADER/ DITCH TURNOUT DETAILS AND NOTES**

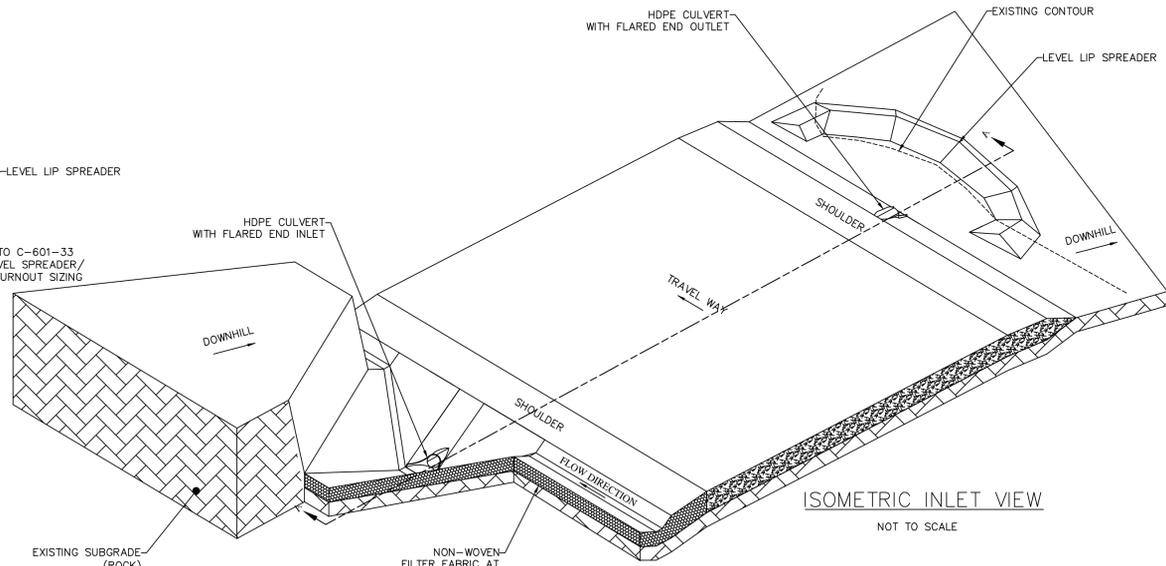
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Drawn By:	GAD	CHK'G By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	33 OF 44		

Dwg No.:  
**C-503-33**

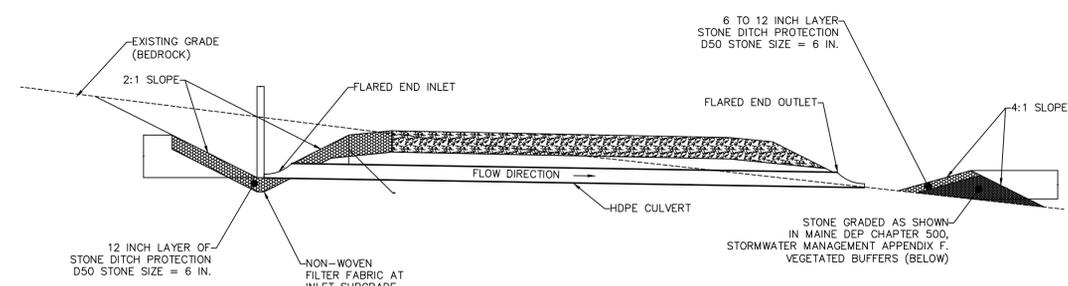
**CULVERT AND LEVEL LIP SPREADER DETAIL/DITCH TURNOUT  
IN LOCATIONS OF EXISTING BEDROCK**



PLAN VIEW  
NOT TO SCALE



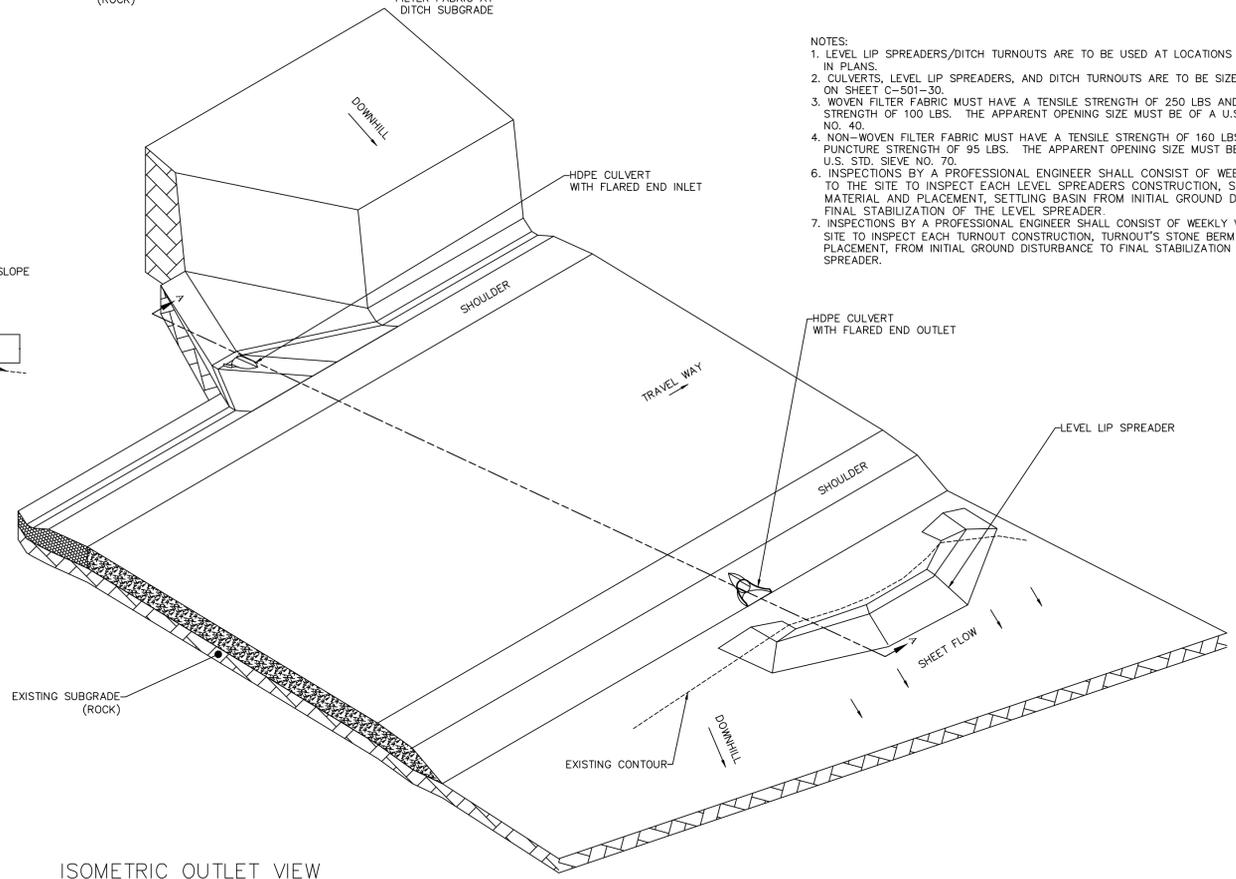
ISOMETRIC INLET VIEW  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

MAINE DEP  
CHAPTER 500, STORMWATER MANAGEMENT  
APPENDIX F, VEGETATED BUFFERS

SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84-100
3 IN.	68-83
1 IN.	42-55
NO.4	8-12



ISOMETRIC OUTLET VIEW  
NOT TO SCALE

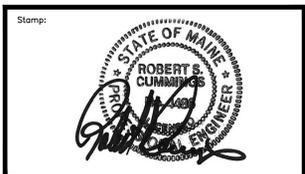
- NOTES:
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  2. CULVERTS, LEVEL LIP SPREADERS, AND DITCH TURNOUTS ARE TO BE SIZED AS SHOWN ON SHEET C-501-30.
  3. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
  4. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.
  5. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH LEVEL SPREADER'S CONSTRUCTION, STONE BERM MATERIAL AND PLACEMENT, SETTLING BASIN FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
  6. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH TURNOUT CONSTRUCTION, TURNOUT'S STONE BERM MATERIAL AND PLACEMENT, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.

- REPLACEMENT CULVERT NOTES:
- STREAM CROSSING CULVERT REPLACEMENT MUST:
1. BE LIMITED TO 75 FEET IN LENGTH. THIS LIMIT MAY NOT BE EXCEEDED WITHIN A HALF-MILE LENGTH OF THE STREAM OR WITHIN THE LENGTH OF STREAM CONTROLLED BY THE APPLICANT
  2. FOLLOW THE ALIGNMENT AND GRADE OF THE EXISTING STREAM CHANNEL WHERE POSSIBLE. ON PERENNIAL STREAMS THE CULVERT'S GRADIENT MAY NOT EXCEED 1%
  3. HAVE THE BOTTOM OF THE ENTIRE CULVERT INSTALLED AT OR BELOW STREAM BED ELEVATION, EXCEPT FOR ADDITIONAL CULVERTS AT THE SAME CROSSING
  4. WHERE TWO OR MORE CULVERTS ARE INSTALLED, BE OFFSET IN ORDER TO CONCENTRATE LOW FLOWS INTO THE CULVERT WITHIN THE NATURAL CHANNEL; BE SEATED ON FIRM GROUND, OR ON GEOTEXTILES, LOSS OR OTHER MATERIALS USED TO STABILIZE THE GROUND
  5. BE COVERED BY SOIL TO A MINIMUM DEPTH OF 1 FOOT OR ACCORDING TO THE CULVERT MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER
  6. HAVE THE SOIL COMPACTED AT LEAST HALFWAY UP THE SIDE OF THE CULVERT
  7. HAVE THE INLET AND OUTLET ENDS STABILIZED BY RIPRAP IN ACCORDANCE WITH SECTION 8 SHORELINE STABILIZATION STANDARDS TO AVOID EROSION OF MATERIAL AROUND THE CULVERT
  8. MUST OCCUR BETWEEN OCTOBER 2 AND JULY 14, OR A TIME PERIOD APPROVED BY THE DEP WHEN THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK - THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR AN ALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.
- STREAM CROSSING AND DRAINAGE CULVERT REPLACEMENT MUST:
9. HAVE EXCAVATED MATERIAL STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.
  10. USE UNTREATED LUMBER FOR TIMBER MATING. LUMBER PRESSURE TREATED WITH CHROMIATED COPPER ARSENATE (CCA) MAY BE USED ONLY IF NECESSARY AND ONLY IF USE IS ALLOWED UNDER FEDERAL LAW AND NOT PROHIBITED FROM SALE UNDER 38 M.R.S.A. 1682, AND PROVIDED IT IS CURED ON DRY LAND IN A WAY THAT EXPOSES ALL SURFACES TO THE AIR FOR A PERIOD OF AT LEAST 21 DAYS PRIOR TO CONSTRUCTION. WOOD TREATED WITH CREOSOTE OR PENTACHLOROPHENOL MAY NOT BE USED WHERE IT WILL CONTACT WATER.

- GENERAL NOTES:**
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  2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
  3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
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  5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
  6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
  7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

Patriot Renewables  
**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
548 SOUTH STREET SUITE 101  
TEL: (617) 880-0600 FAX: (617) 880-0600

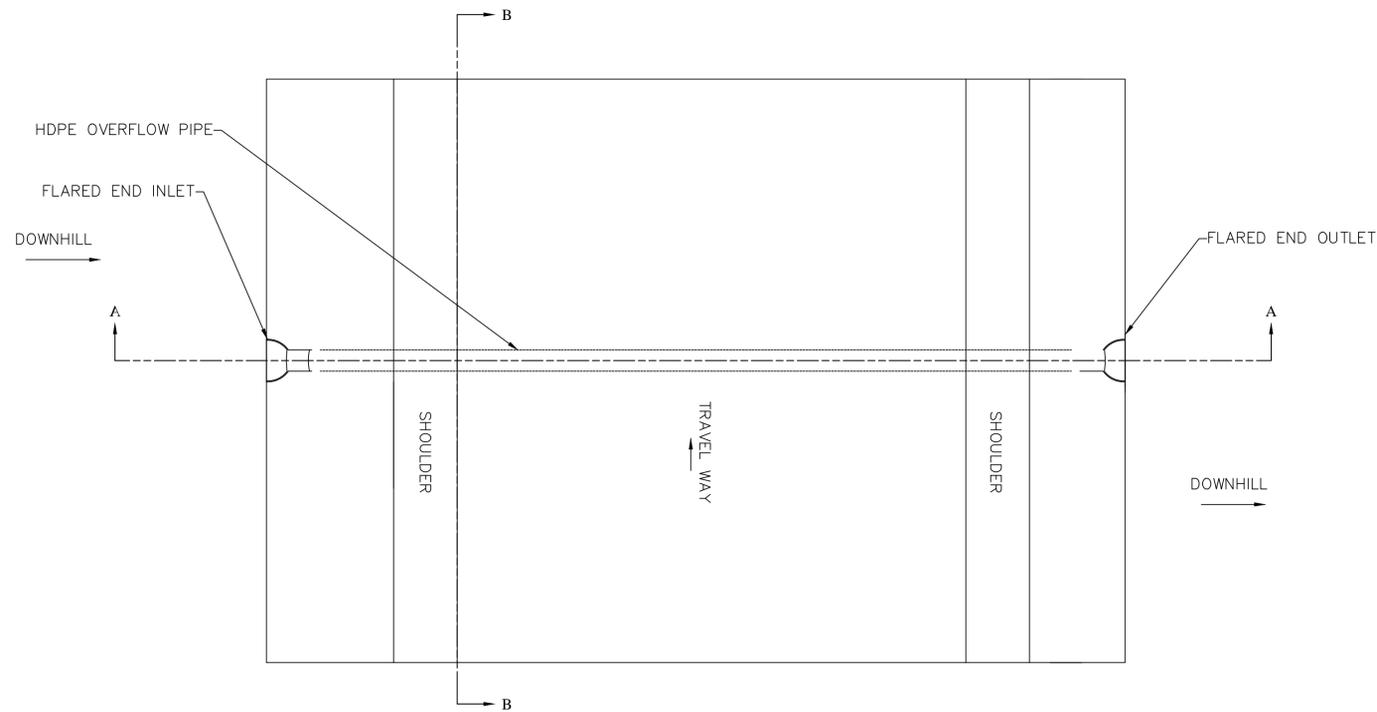


Stamp:  
Drawing Title:  
**CULVERT AND LEVEL LIP SPREADER/ DITCH TURNOUT (BEDROCK) DETAILS AND NOTES**

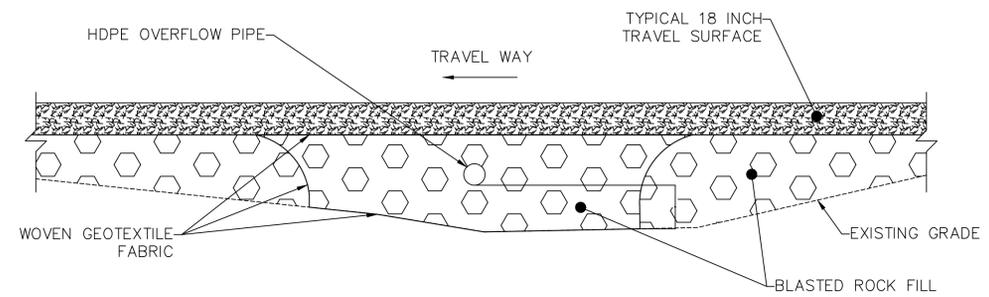
Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	CHK'G By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	34 OF 44		

Dwg No.:  
**C-504-33**

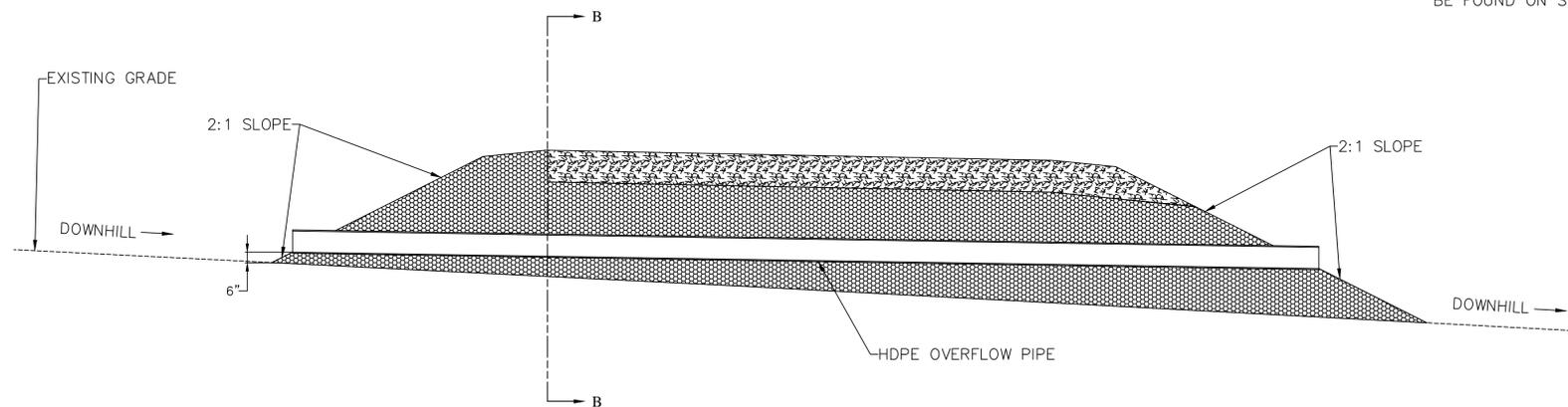
## ROCK SANDWICH DETAIL AND NOTES



PLAN VIEW  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE

- NOTES:
1. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
  2. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.
  3. SIZING FOR ROCK SANDWICH OVERFLOW PIPES CAN BE FOUND ON SHEET C-501-29

### GENERAL NOTES:

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

**PATRIOT RENEWABLES**  
**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
 546 SOUTH STREET SUITE 101  
 TEL: (617) 890-0600 FAX: (617) 890-0606

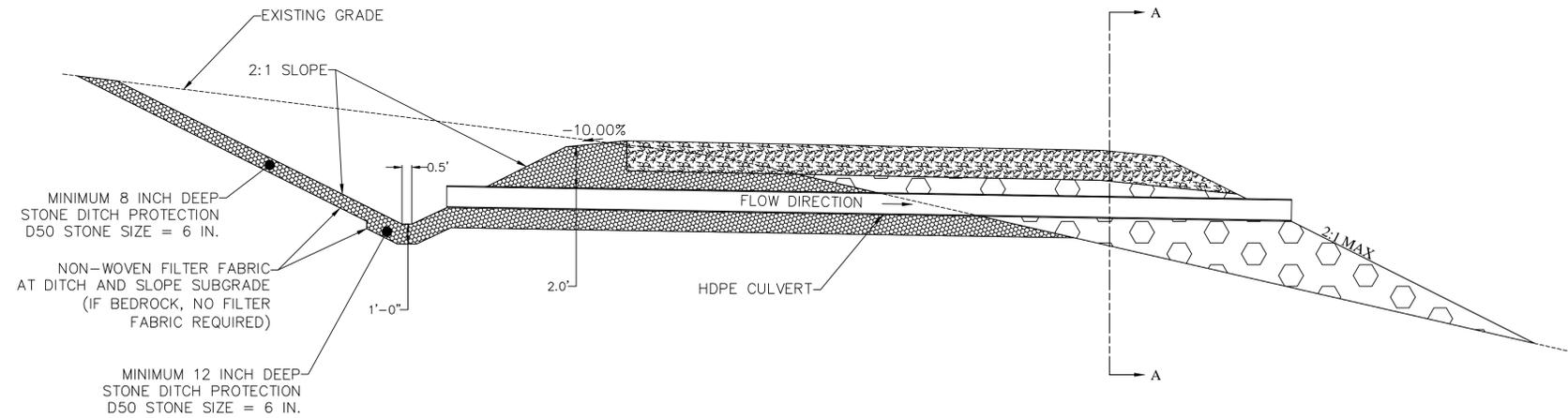
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Drawing Title:  
**ROCK SANDWICH  
DETAILS AND NOTES**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 35 OF 44	

Dwg No.:  
**C-505-33**

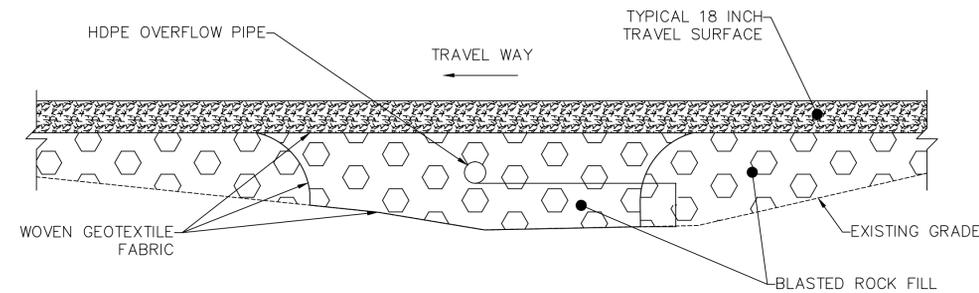
## ROCK MAKI DETAIL AND NOTES



### ROCK MAKI CROSS SECTION DETAIL

NOT TO SCALE

- NOTE:
1. ROCK MAKI SECTION IS TO BE USED IN AREAS WHERE A DITCH INTERCEPTS EXISTING SOIL CONTAINING A HIGH WATER TABLE, AS WELL AS LOCATIONS SPECIFIED ON PLANS.
  2. WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 250 LBS AND A PUNCTURE STRENGTH OF 100 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 40.
  3. NON-WOVEN FILTER FABRIC MUST HAVE A TENSILE STRENGTH OF 160 LBS AND A PUNCTURE STRENGTH OF 95 LBS. THE APPARENT OPENING SIZE MUST BE OF A U.S. STD. SIEVE NO. 70.



### SECTION A-A

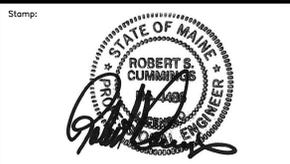
NOT TO SCALE

### GENERAL NOTES:

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2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

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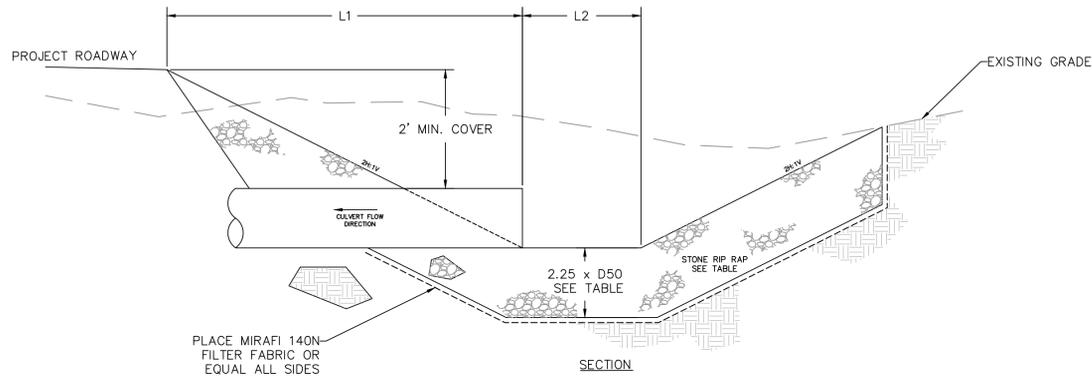
Drawing Title:  
**ROCK MAKI  
DETAILS AND NOTES**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	36 OF 44		

Dwg No.:  
**C-506-33**

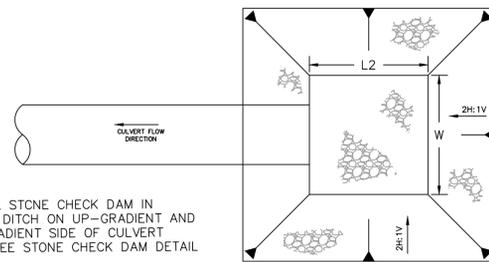
**CULVERT INLET DETAIL**

NOT TO SCALE



PLACE MIRAFI 140N FILTER FABRIC OR EQUAL ALL SIDES

SECTION



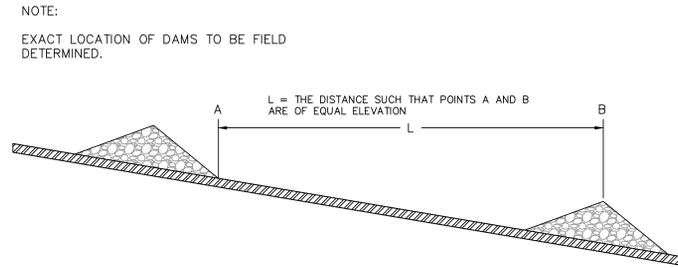
PLAN

NOTE:  
1. INSTALL STONE CHECK DAM IN ROADSIDE DITCH ON UP-GRADE AND DOWN-GRADE SIDE OF CULVERT OUTLET, SEE STONE CHECK DAM DETAIL

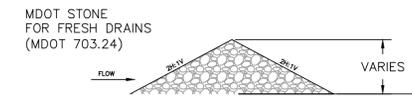
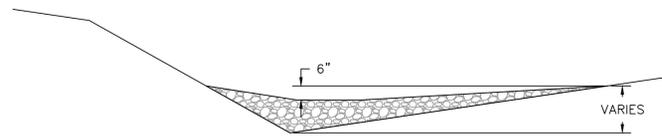
SCHEDULE					
CULVERT DIA.	L1	L2	W	STONE D50	2.25 x D50
12"	6'	2'	2'	6"	14"
15"	6.5'	4'	4'	6"	14"
18"	7'	4'	4'	6"	14"
24"	8'	8'	8'	6"	14"
36"	10'	8'	8'	12"	27"

**STONE CHECK DAM DETAIL**

NOT TO SCALE



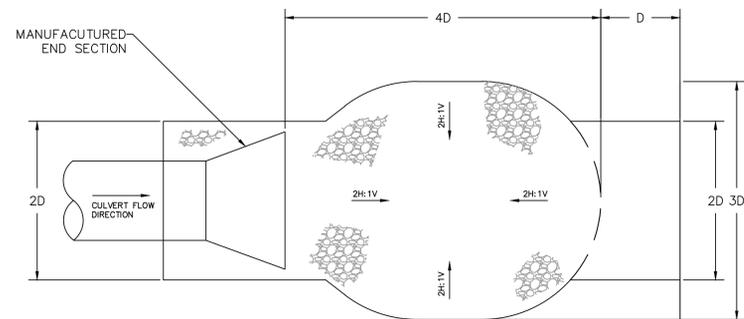
NOTE:  
EXACT LOCATION OF DAMS TO BE FIELD DETERMINED.



MDOT STONE FOR FRESH DRAINS (MDOT 703.24)

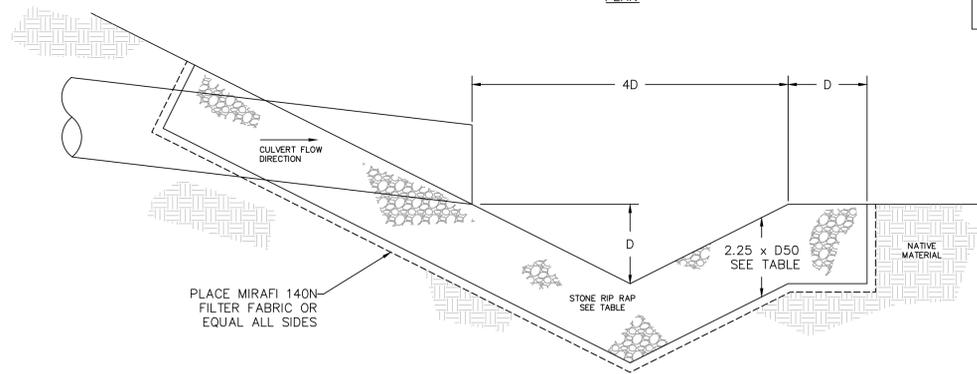
**CULVERT OUTLET / PLUNGE POOL DETAIL**

NOT TO SCALE



PLAN

SCHEDULE		
CULVERT DIA.	STONE D50	2.25 x D50
12"	6"	14"
15"	6"	14"
18"	6"	14"
24"	6"	14"
36"	12"	27"



PLACE MIRAFI 140N FILTER FABRIC OR EQUAL ALL SIDES

SECTION

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7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**

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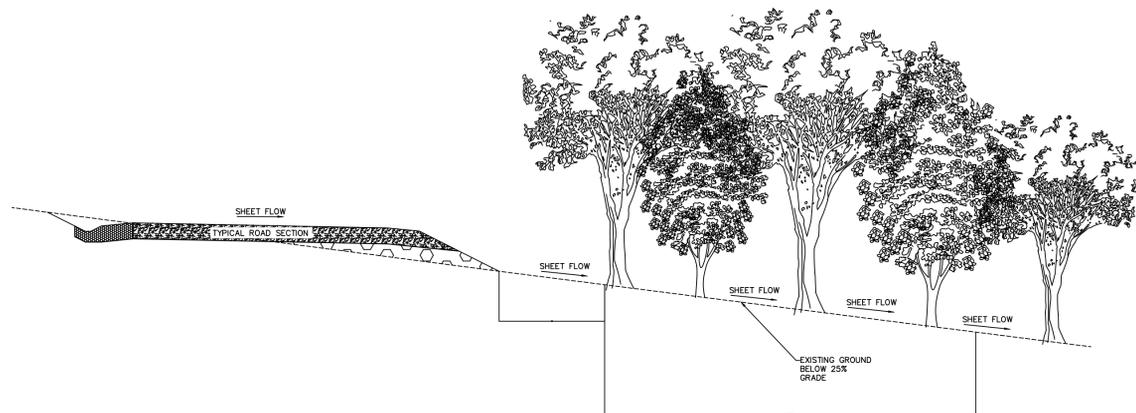
Drawing Title:  
**CULVERT INLET DETAIL**  
**CULVERT OUTLET/PLUNGE POOL DETAIL**  
**DIVERSION BERM DETAIL AND NOTES**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 37 OF 44	

Dwg No.:  
**C-507-33**

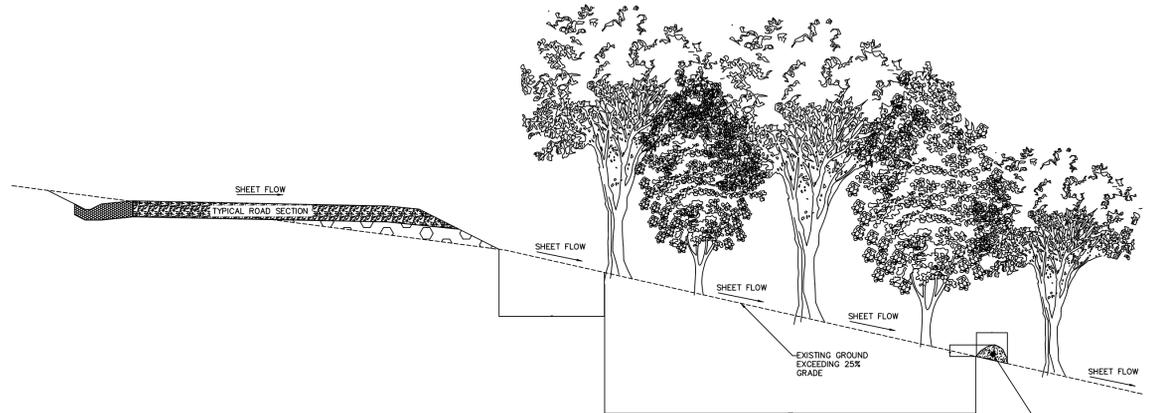
STORMWATER TREATMENT BUFFER DETAILS AND NOTES

UNDISTURBED STORMWATER TREATMENT BUFFER  
(EXISTING SLOPES BELOW 25% GRADE)  
NOT TO SCALE



NOTES:  
1. RUNOFF FROM ADJACENT ROAD SURFACE AND SHOULDERS WILL BE DIRECTED TO BUFFER.  
2. BUFFER SLOPES WILL NOT EXCEED 25%.  
3. RUNOFF MUST ENTER THE BUFFER AS SHEET FLOW.  
4. IF THE BUFFER IS USED TO TRAP SEDIMENT DURING CONSTRUCTION, SEDIMENT MUST BE REMOVED AND ORIGINAL TOPOGRAPHY, GROUND COVER AND VEGETATION IS TO BE REESTABLISHED.

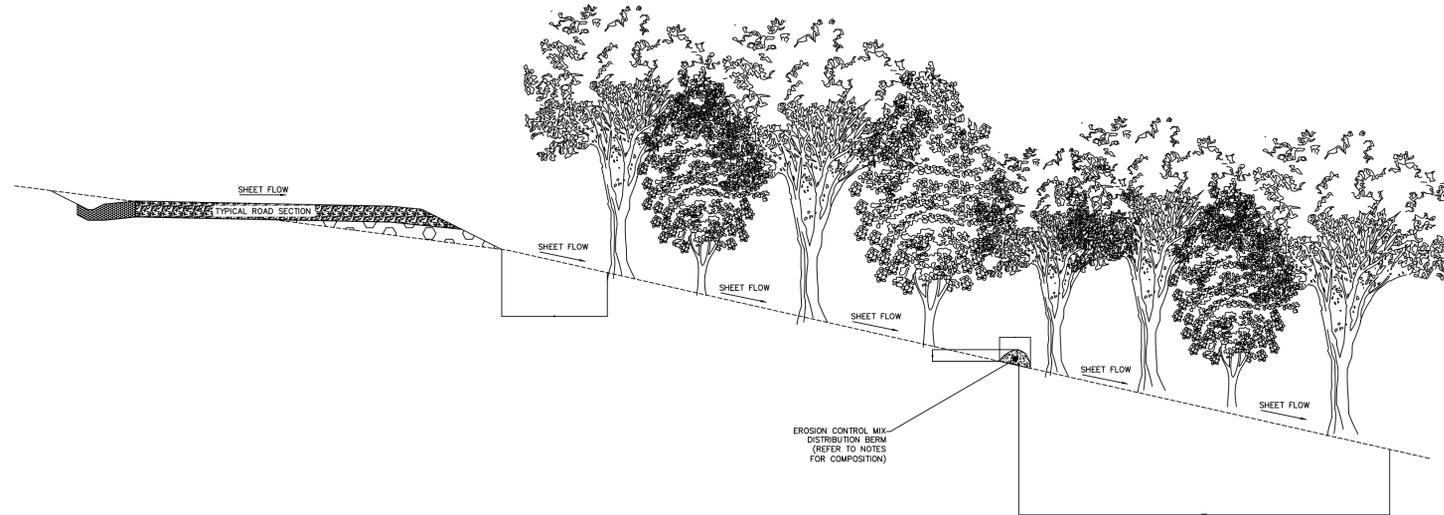
UNDISTURBED STORMWATER TREATMENT BUFFER  
WITH EROSION CONTROL MIX BERM  
(EXISTING SLOPES ABOVE 25% GRADE)  
NOT TO SCALE



NOTES:  
1. RUNOFF FROM ADJACENT ROAD SURFACE AND SHOULDERS WILL BE DIRECTED TO BUFFER.  
2. RUNOFF MUST ENTER THE BUFFER AS SHEET FLOW.  
3. IF THE BUFFER IS USED TO TRAP SEDIMENT DURING CONSTRUCTION, SEDIMENT MUST BE REMOVED AND ORIGINAL TOPOGRAPHY, GROUND COVER AND VEGETATION IS TO BE REESTABLISHED.  
4. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.  
5. THE BERM MAY BE BLOWN INTO PLACE.

MAINE DEP CHAPTER 500, STORMWATER MANAGEMENT APPENDIX F, VEGETATED BUFFERS	
SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN.	100
6 IN.	84-100
3 IN.	68-83
1 IN.	42-55
NO.4	8-12

UNDISTURBED STORMWATER TREATMENT BUFFER  
WITH EROSION CONTROL MIX DISTRIBUTION BERM  
NOT TO SCALE



NOTES:  
1. EROSION CONTROL MIX DISTRIBUTION BERM IS TO BE USED AT THE BEGINNING OF TREATMENT BUFFERS WHERE RUNOFF DOES NOT IMMEDIATELY ENTER THE BUFFER, AS SHOWN ON PLANS.  
2. EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF STUMP GRUNDINGS OR SIMILAR COARSE, FIBROUS ORGANIC MATERIAL, WITH A RANGE OF SIZES AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF PETROLEUM CONTAMINANTS, AND MATERIALS TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:  
2.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 20 AND 100 PERCENT, DRY WEIGHT BASIS.  
2.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND 70 PERCENT TO 85 PERCENT, PASSING A 3/4-INCH SCREEN.  
2.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.  
2.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.  
3. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.  
4. THE BERM MAY BE BLOWN INTO PLACE.

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No.	Revision/Issue	Date

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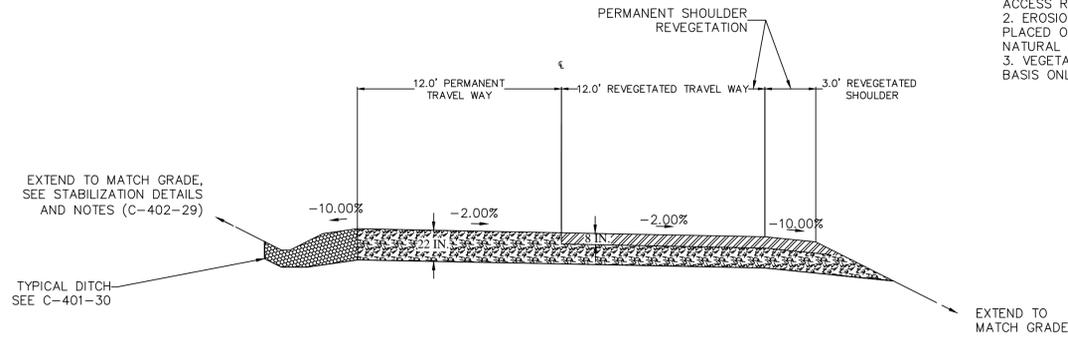
Stamp:

Drawing Title:  
**STORMWATER  
 TREATMENT BUFFER  
 DETAILS AND NOTES**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 38 OF 44	

Dwg No.:  
**C-508-33**

**REVEGETATION DETAILS AND NOTES**



**24' ACCESS ROAD REVEGETATION DETAIL**

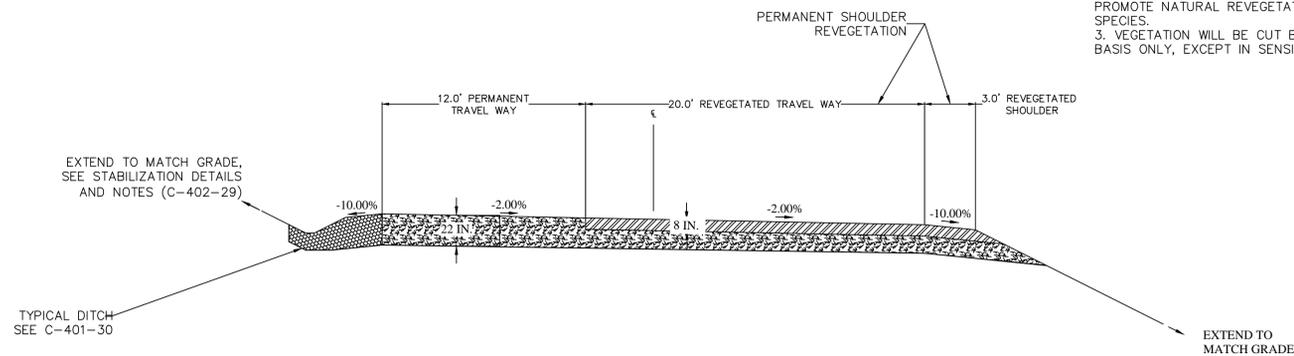
NOT TO SCALE

**NOTE:**

1. TEMPORARY SHOULDERS ALONG PERMANENT ACCESS ROAD TO BE REVEGETATED.
2. EROSION CONTROL MIX OR LOAM & SEED WILL BE PLACED ON THE REVEGETATED AREAS TO PROMOTE NATURAL REVEGETATION OF NATIVE SPECIES.
3. VEGETATION WILL BE CUT BACK ON AN ANNUAL BASIS ONLY, EXCEPT IN SENSITIVE VIEW SHEDS.

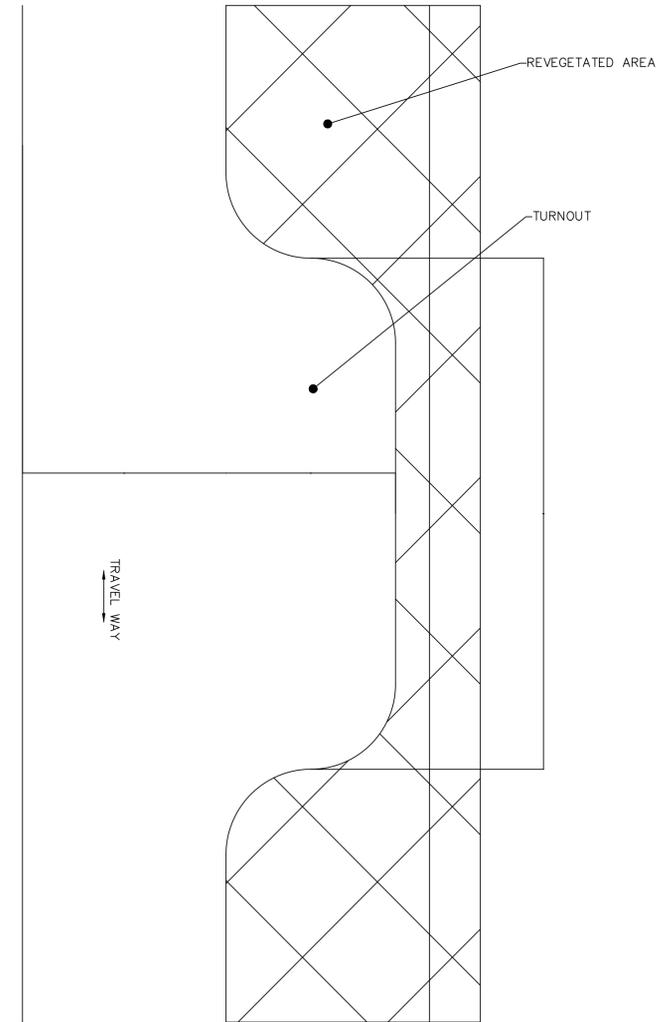
**NOTE:**

1. TEMPORARY SHOULDERS ALONG PERMANENT ACCESS ROAD TO BE REVEGETATED.
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3. VEGETATION WILL BE CUT BACK ON AN ANNUAL BASIS ONLY, EXCEPT IN SENSITIVE VIEW SHEDS.



**32' CRANE ROAD REVEGETATION DETAIL**

NOT TO SCALE



**ROAD TURNOUT DETAIL**

NOT TO SCALE

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A	DEP REVISIONS	06/13/12

PATRIOT RENEWABLES

ENGINEERING & MANAGEMENT SERVICES, INC.

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Stamp:

Drawing Title:

**ACCESS AND CRANE ROAD REVEGETATION DETAILS AND NOTES**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		
Sheet Number:	39 OF 44		

Dwg No.:

**C-509-33**

**GENERAL CONSTRUCTION NOTES:**

- AFTER A FINAL REVIEW, DWM COMMENTED THAT THE PROPOSED STORMWATER MANAGEMENT SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE CHAPTER 500 GENERAL STANDARD PROVIDED THAT THE DESIGN ENGINEER OR A THIRD-PARTY ENGINEER OVERSEES THE CONSTRUCTION OF THE STORMWATER MANAGEMENT STRUCTURES ACCORDING TO THE DETAILS AND NOTES SPECIFIED ON THE APPROVED PLANS.
- WITHIN 30 DAYS OF COMPLETION OF THE WHOLE SYSTEM OR AT LEAST ONCE PER YEAR, THE APPLICANT MUST SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS AND THE DATES OF EACH INSPECTION TO THE BLWQ FOR REVIEW.
- CONSTRUCTION OVERSIGHT**  
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE POND'S CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY TESTING DATA OR SIEVE ANALYSIS DATA OF EVERY MINERAL SOIL AND SOIL MEDIA SPECIFIED IN THE PLANS AND USED ON SITE.
- UNDERDRAINE FILTER BASINS**  
CONSTRUCTION SEQUENCE: THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETE.  
COMPACTION OF SOIL FILTER: FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST 2 LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.  
CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:  
AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED,  
AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,  
AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDED. BIO-RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%.  
AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND  
ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.
- TESTING AND SUBMITTALS:** THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:  
A. SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.  
B. PERFORM A SIEVE ANALYSIS CONFORMING TO STM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.  
C. PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90-92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.
- WETPONDS**  
INSPECTION BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE INSTALLATION OF EACH POND'S EMBANKMENT CONSTRUCTION, STORMWATER INLET, UNDERDRAINED GRAVEL OUTLET, GRAVEL OUTLET FILTER MATERIAL MAKEUP AND PLACEMENT, OUTLET CONTROL STRUCTURE, CLAY LINER (IF APPLICABLE), AND EMERGENCY SPILLWAY CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE POND. AN INSPECTION OF THE UNDERDRAINED GRAVEL OUTLET SHALL ALSO BE PERFORMED ONE YEAR AFTER THE FINAL STABILIZATION OF THE POND.
- INFILTRATION BASINS**  
INSPECTIONS BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE PROPOSED SOIL LINER MATERIAL, TOPSOIL CAP, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE INFILTRATION BASIN.
- LOT GRADING AND DRIVEWAY LOCATION**  
INSPECTIONS A PROFESSIONAL ENGINEER WILL CONSIST OF A VISIT TO THE SITE PRIOR TO CONSTRUCTION TO CONSULT WITH THE EARTHWORK CONTRACTOR AND A POST CONSTRUCTION MEETING TO CONFIRM GRADING ON LOTS AND FOR ALL DRIVEWAYS TO ENSURE RUNOFF IS DIRECTED ACCORDING TO PLANS AND TO OVERSEE THE RE-STABILIZATION OF THE LOT INTO A VEGETATED COVER.
- BUFFERS - GENERAL**  
GENERAL FOREST USE MEANS THAT THE LAND MUST BE MAINTAINED WITH A FOREST COVER AND UNDISTURBED SOIL, DUFF LAYER GROUND COVER VEGETATION, AND UNDERSTORY VEGETATION. TIMBER MAY BE HARVESTED ON A SELECTIVE BASIS PROVIDED THAT NO MORE THAN 40% OF THE VOLUME IS HARVESTED WITHIN ANY 10 YEAR PERIOD.
- STONE BERMED LEVEL LIP SPREADER**  
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH LEVEL SPREADERS CONSTRUCTION, STONE BERM MATERIAL AND PLACEMENT, SETTLING BASIN FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
- ROAD DITCH TURNOUTS**  
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH TURNOUT CONSTRUCTION, TURNOUT'S STONE BERM MATERIAL AND PLACEMENT, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
- PERVIOUS PAVEMENT**  
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED PERVIOUS PAVEMENT AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE FILTER BED MATERIAL PLACEMENT AND COMPACTION, STORAGE COURSE, PAVEMENT ALTERNATIVE PLACEMENT, FABRIC LAYMENT, AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL PAVEMENT COMPACTION
- ROOF DRIP EDGE FILTERS**  
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH THE ROOF DRIP EDGE FILTER'S UNDERDRAIN CONSTRUCTION, FILTER MATERIAL PLACEMENT, AND OVERFLOW FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE FILTER.
- STORMTREAT MANUFACTURED SYSTEMS**  
INSPECTION BY A PROFESSIONAL ENGINEER APPROVED BY THE MANUFACTURER SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE SUBGRADE PREPARATION, GENERAL CONSTRUCTION, FILTER MATERIAL PLACEMENT AND COMPACTION, CHAMBER PLACEMENT, FABRIC LAYMENT, AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE MEASURE. IN THE CASE OF THE STORMTREAT SYSTEMS AN ADDITIONAL VISIT WILL BE NECESSARY TO SET THE UNIT'S PEAK OUTFLOW RATE APPROPRIATELY TO NO MORE THAN ONE GALLON PER MINUTE.
- DEWATERING**  
A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL EVENTS OR WHERE THE EXCAVATION MAY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. THE COLLECTED WATER NEEDS TREATMENT AND A DISCHARGE POINT THAT WILL NOT CAUSE DOWNGRADIENT EROSION AND OFFSITE SEDIMENTATION OR WITHIN A RESOURCE. PLEASE FOLLOW THE DETAILS OF SUCH A PLAN.
- BASIC STANDARDS - EROSION CONTROL MEASURES**  
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE
- THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES AS PUBLISHED IN 1991 BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION HAS BEEN CHANGED TO THE MAINE EROSION AND SEDIMENT CONTROL BMP'S PUBLISHED BY THE MAINE DEP IN 2003. ALL REFERENCES SHOULD BE CHANGED TO THE NEW MANUAL. [HTTP://WWW.MAINE.GOV/DEP/WB/WQ/DOCSTAND/ZSCBMPs/INDEX.HTM](http://www.maine.gov/dep/wb/wq/docstand/zscbmps/index.htm)

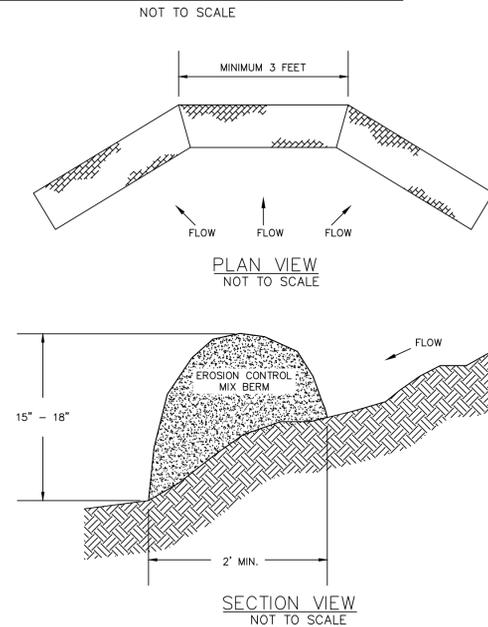
**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

- ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHALL BE INSTALLED & MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED MARCH, 2003 (AS REVISED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING STORMWATER MANAGEMENT PRACTICES IN ACCORDANCE WITH LOCAL REGULATIONS AND GOVERNING AUTHORITIES AND SHALL BE RESPONSIBLE FOR ANY FINES RESULTING FROM EROSION CONTROL VIOLATIONS.
- THE CONTRACTOR SHALL PROVIDE PROPER EROSION AND SEDIMENT CONTROL MEASURES IN ALL AREAS OF WORK. PRIOR TO BEGINNING GRUBBING WORK, SEDIMENT BARRIERS SHALL BE INSTALLED. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES TO CONTROL EROSION. EROSION CONTROL MEASURES SHALL ALSO BE INSTALLED AT THE DOWNGRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION.
- THE CONTRACTOR SHALL INSPECT ESC MEASURES ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF SIGNIFICANT RAINFALL EVENTS, INCLUDING THOSE THAT RESULT IN DISCHARGE OF STORMWATER FROM THE SITE. SIGNIFICANT RAINFALL IS DEFINED AS RAINFALL OF HALF-INCH OR GREATER. REPAIRS SHALL BE MADE AS DIRECTED BY THE MAINE DEP'S ENVIRONMENTAL INSPECTOR AS NECESSARY. ACCUMULATED SEDIMENT TRAPPED BY ESC DEVICES SHALL BE REMOVED AS NECESSARY.
- THE ROAD WILL BE CONSTRUCTED IN SEGMENTS. EACH SEGMENT SHALL NOT EXCEED AN AREA THAT CANNOT BE STABILIZED WITHIN ONE WEEK.
- TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND THOSE ADJACENT AREAS RESTORED UPON COMPLETION OF THE WORK OR WHEN SO ORDERED BY THE ENGINEER OR MAINE DEP. EXPOSED SOIL RESULTING FROM REMOVAL OF TEMPORARY ESC MEASURES SHALL BE RAKED SEEDED, AND MULCHED OR MATTED AS NEEDED.
- TEMPORARY MULCHING IS TO BE APPLIED TO ALL DISTURBED AREAS WITHIN 21 DAYS OF INITIAL DISTURBANCE AND TO AREAS LEFT INACTIVE AND UNSTABILIZED FOR A PERIOD GREATER THAN 7 DAYS AT A RATE OF 2 TONS/ACRE UNLESS:  
a. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECASTED FOR THE NEXT 24 HOURS.  
ii. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2 FEET OF GREATER (E.G. UTILITY TRENCHES)
- PERMANENT SEED MIX SHALL BE USED AS EARLY AS PRACTICABLE BETWEEN MAY 15TH AND SEPTEMBER 15TH AND MEET THE FOLLOWING MAINE DOT STANDARD SPECIFICATION 717.03 METHOD #2 CRITERIA:  
RED FESCUE 50%  
SHEEP FESCUE 25%  
RED TOP 5%  
WHITE CLOVER 10%  
ANNUAL RYE 10%
- PERMANENT SEED MIX SHALL BE USED BETWEEN SEPTEMBER 15TH AND MAY 15TH AND SHALL MEET THE FOLLOWING CRITERIA:  
WINTER RYE 80%  
RED FESCUE 10%  
SHEEP FESCUE 5%  
RED TOP 1%  
WHITE CLOVER 2%  
ANNUAL RYE 2%
- CROWN VETCH CAN BE ADDED TO SEEDING MIXES AT 25%. CROWN VETCH IS NOT TO BE USED IN WETLAND AREAS
- WETLAND SEED MIX SHALL MEET THE FOLLOWING CRITERIA:  
NODDING BUR MARIGOLD 3%  
FOX SEDGE 13%  
CREEPING BENTGRASS 14%  
RIVERBANK WILD RYE 8%  
VIRGINIA WILD RYE 14%  
SOFT RUSH 2%  
SENSITIVE FERN 1.5%  
BLUE VERVAIN 1%  
BLACKWELL SWITCH GRASS 25%  
GREY DOGWOOD 0.5%  
CREEPING RED FESCUE 18%
- THE METHOD OF STRIPPING VEGETATION SHALL BE SUCH AS TO MINIMIZE EROSION. FILLS SHALL BE PLACED AND COMPACTED IN SUCH A MANNER AS NOT TO DIVERT WATER ON TO ADJOINING PROPERTY.
- ANCHORED MULCH OR EROSION CONTROL BLANKET SHALL BE USED TO STABILIZE SLOPES BETWEEN 2H:1V AND 1H:1V.
- RIPRAP SHALL BE USED TO STABILIZE SLOPES BETWEEN 1H:1V AND 1H:.5V OR SLOPES WHERE A HIGH WATER TABLE IS PRESENT.
- GEOSYNTHETIC BERMS AND EROSION CONTROL MIX BERMS MAY BE SUBSTITUTED FOR SILT FENCE BY THE CONTRACTOR AS CONDITIONS DICTATE.
- INITIAL CLEARING WILL CONSIST OF CLEARING 5 +/- FEET OF THE CUT AND FILL SLOPES. FURTHER CLEARING FOR EROSION CONTROL MEASURES WILL BE EVALUATED IN THE FIELD AND WILL BE WITHIN THE CLEARING LIMITS SPECIFIED ON THE PLAN.

**WINTER CONSTRUCTION NOTES:**

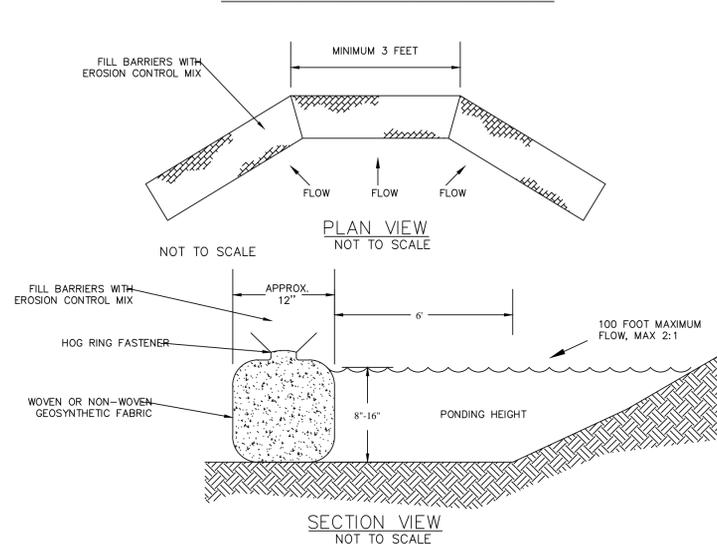
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL WINTER EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SECTION A-3 OF "MAINE EROSION AND SEDIMENTATION BMP'S".
- WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT FOR ANY GIVEN SEGMENT OF THE PROJECT AREA, NO MORE THAN ONE ACRE WILL BE EXPOSED AT ANY GIVEN TIME.
- DISTURBED AREAS ARE TO BE LIMITED TO AREAS WHERE WORK IS TO BE COMPLETED WITHIN 15 DAYS AND CAN BE MULCHED IN ONE DAY PRIOR TO A SNOW EVENT.
- AREAS OF DISTURBED SOIL SHALL BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS: (1) IF NO RUNOFF EVENT IS FORECAST FOR WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS AND/OR (2) DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES OR FOUNDATIONS, WHICH REQUIRE STABILIZATION AT THE END OF EACH WEEK.
- SNOW PILING SHALL OCCUR WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
- DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED PRIOR TO FROZEN GROUND CONDITIONS. SILT FENCE MAY BE INSTALLED WITH STONE BACKING DURING FROZEN GROUND CONDITIONS.
- MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED AT 4 TONS/ACRE WITH AN 80 TO 90 PERCENT UNIFORM COVER AND TRACKED IN TO PREVENT REMOVAL BY WIND.
- PRIOR TO STABILIZATION, SNOW AND/OR ICE SHALL BE REMOVED TO LESS THAN ONE INCH REMAINING.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED AT LOCATIONS WHERE CONSTRUCTION VEHICLE TRAFFIC WILL BE ENTERING AND LEAVING THE CONSTRUCTION SITE. ENTRANCES SHALL BE AT LEAST 14 FEET WIDE TO ACCOMMODATE VEHICULAR TRAFFIC.
- ALL SLOPES LESS THAN 3H:1V SHALL BE MULCHED AT 4 TONS/ACRE AND TRACKED IN.
- THE SITE STABILIZATION SCHEDULE BEFORE WINTERS SHALL BE AS FOLLOWS:  
SEPTEMBER 15 ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED.  
ALL SLOPES REQUIRING VEGETATION MUST BE STABILIZED, SEEDED, AND MULCHED.  
OCTOBER 1 ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1000 SQ-FT AND MULCHED.  
NOVEMBER 15 ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED.  
ALL SLOPES REQUIRING RIPRAP MUST BE CONSTRUCTED.  
DECEMBER 1 ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED FOR OVER-WINTER.

**EROSION CONTROL MIX BERM DETAIL**



- NOTES:**
- EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF STUMP GRINDINGS OR SIMILAR COARSE, FIBROUS ORGANIC MATERIAL WITH A RANGE OF SIZES AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE PHYSICAL CONTAMINANTS, AND MATERIALS TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.  
1.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 20 AND 100 PERCENT, DRY WEIGHT BASIS.  
1.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND 70 PERCENT TO 85 PERCENT, PASSING A 3/4-INCH SCREEN.  
1.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.  
1.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
  - THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. TALL GRASSES MAY NEED TO BE CUT TO AVOID VOID SPACES THAT WOULD ALLOW FINES TO WASH UNDER THE BARRIER.
  - FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.
  - THE EROSION CONTROL MIX CAN BE CONTAINED WITHIN A SYNTHETIC TUBULAR NETTING OR "SOCK". REFER TO GEOSYNTHETIC BERM BELOW.

**GEOSYNTHETIC BERM DETAIL**



- NOTES:**
- EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZE AND MAY CONTAIN ROCKS LESS THAN 4-INCHES IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS.  
1.1. THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100 PERCENT, DRY, WEIGHT BASIS.  
1.2. PARTICLE SIZE BY WEIGHT SHALL BE 100 PERCENT PASSING A 6-INCH SCREEN AND A MINIMUM OF 70 PERCENT, MAXIMUM OF 85 PERCENT, PASSING A 3/4-INCH SCREEN.  
1.3. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.  
1.4. LARGE PORTIONS OF SILTS, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
  - SUITABLE SALTS CONTENT SHALL BE LESS THAN 4.0.
  - THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. TALL GRASSES MAY NEED TO BE CUT TO AVOID SPACES THAT WOULD ALLOW FINES TO WASH UNDER THE BARRIER.
  - FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.

**GENERAL NOTES:**

- SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
- NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH. NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
- ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
- EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
- ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
- PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
- INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

**PATRIOT RENEWABLES**

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ENGINEERING & MANAGEMENT SERVICES, INC.  
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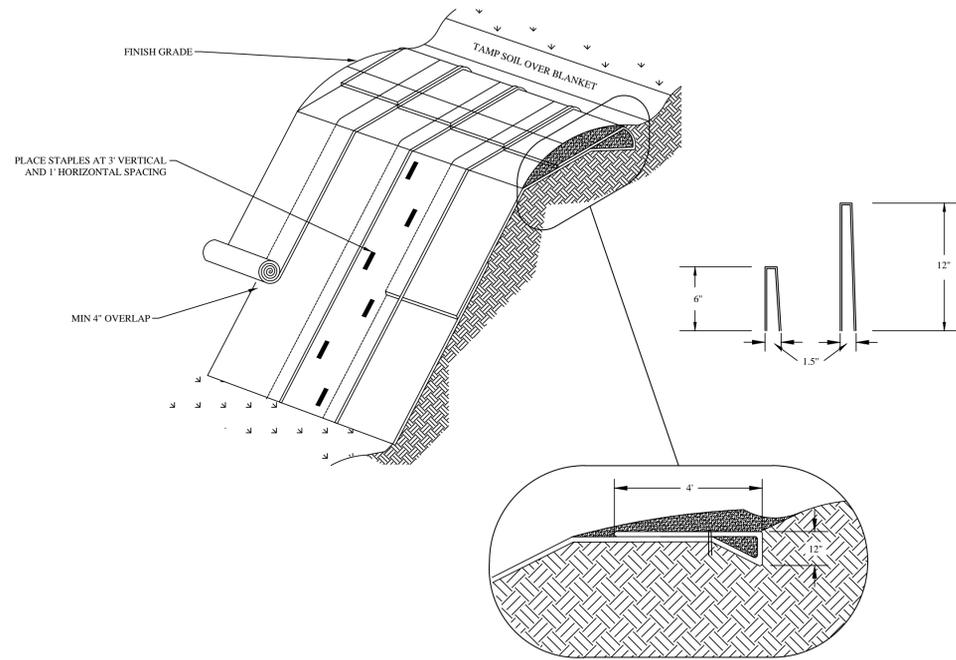
Stamp:  
STATE OF MAINE  
ROBERT S. CUMMINGS  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES 12/31/2013

Drawing Title:  
**CONSTRUCTION  
EROSION AND  
SEDIMENT CONTROL  
DETAILS AND NOTES**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	CHK'd By:	RSC
Project:	CANTON MOUNTAIN WIND PROJECT CANTON, ME		
Client:	CANTON MOUNTAIN WIND, LLC		

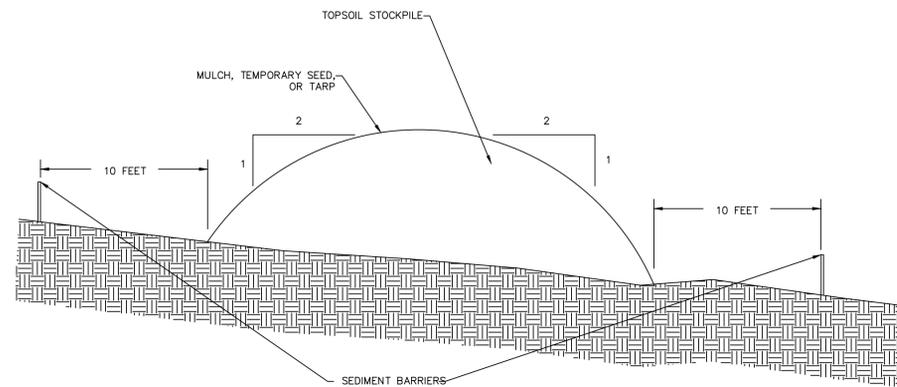
Sheet Number:	40 OF 44
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Dwg No.:  
**C-510-33**



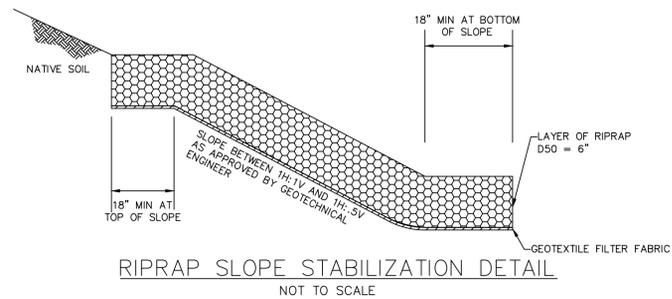
- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
  3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE OR MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
  4. INSTALL BLANKETS WITH OVERLAPPING SEAMS RUNNING VERTICALLY DOWNSLOPE.

**EROSION CONTROL BLANKET DETAIL (SLOPE)**  
NOT TO SCALE



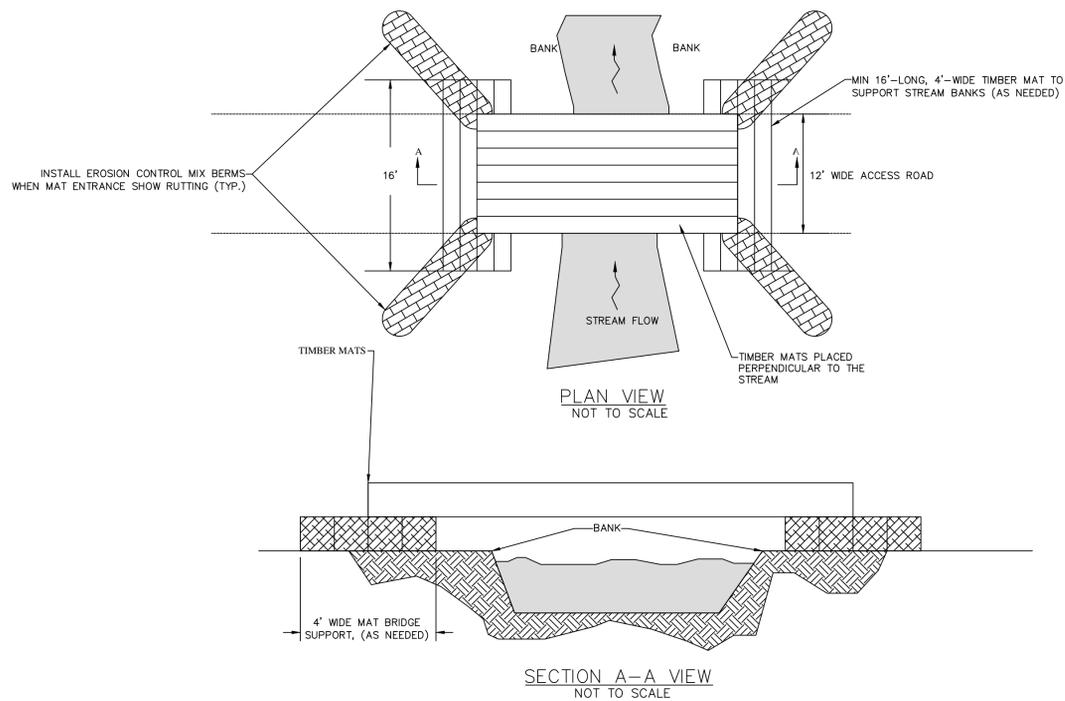
- NOTES:**
1. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
  2. TOPSOIL STOCKPILES SHALL NOT OBSTRUCT WITH NATURAL DRAINAGE.
  3. TOPSOIL STOCKPILES MUST BE MULCHED, TEMPORARILY SEEDED, OR TARPPED.
  - 3.1. TEMPORARY SEEDING OF TOPSOIL STOCKPILES MUST TAKE PLACE WITHIN 7 DAYS OF THE FORMATION OF THE STOCKPILE.
  - 3.2. IN CRITICAL AREAS (NEAR LAKES, STREAMS, OR WETLANDS) TEMPORARY SEEDING SHALL BE COMPLETED WITHIN 24 HOURS.
  4. SIDESLOPES OF TOPSOIL STOCKPILES SHALL NOT EXCEED 2H:1V.
  5. WETLAND SOILS SHALL BE STOCKPILED SEPARATELY FROM UPLAND SOILS.

**TOPSOIL STOCKPILE DETAIL**  
NOT TO SCALE



**TRANSMISSION LINE CONSTRUCTION NOTES:**

1. THE FOLLOWING MEANS AND METHODS ARE TO BE EMPLOYED DURING THE CONSTRUCTION OF THE TRANSMISSION LINE. THE PROPER TECHNIQUE WILL BE DETERMINED BASED ON THE CONDITIONS IN THE FIELD AFTER CONSULTATION WITH THE ENGINEER AND THIRD PARTY INSPECTOR.
2. IF CONSTRUCTION CANNOT BE COMPLETED WHILE THE GROUND IS FROZEN, TIMBER MATS SHOULD BE USED IN WETLANDS.
3. IN AREAS SHOWING A HIGH GROUND WATER TABLE OR WHERE HIGH WATER TABLE IS SUSPECTED, TIMBER MATTING CAN BE USED TO AVOID DAMAGING THE EXISTING SURFACE.
4. IN AREAS WHERE THERE IS A HIGH POSSIBILITY OF EROSION, EROSION CONTROL BARRIERS SHOULD BE INSTALLED.
5. IF UNDERDRAINAGE IS OPENED DURING THE COURSE OF CONSTRUCTION, SLASH CAN BE USED TO SEAL THE RUT.
6. ANY AREA THAT IS DAMAGED DURING CONSTRUCTION MUST BE RESTORED UPON COMPLETION.
7. IF RUTTING OCCURS AT THE ENTRANCES TO THE TIMBER MAT STRUCTURE, EROSION CONTROL MIX BERMS SHOULD BE INSTALLED AS SHOWN BELOW.



- NOTES:**
1. DEPLOY EROSION CONTROLS AS NEEDED TO MINIMIZE EROSION.
  2. PERFORM ROUTINE INSPECTION TO INCLUDE REMOVAL OF LOOSE SOIL TRACKED ONTO BRIDGE BY EQUIPMENT AND INSPECTION OF STREAM BANKS FOR STABILITY.
  3. MATS SHALL BE POSITIONED TO MAINTAIN THE NATURAL STREAM CHARACTERISTICS.
  4. MATS LAID PERPENDICULAR TO THE STREAM CAN BE SUBSTITUTED WITH PRE-FABRICATED BRIDGE STRUCTURES AS SPAN LENGTHS DICTATE OR AT THE PREFERENCE OF THE CONTRACTOR.
  5. A MINIMUM BRIDGE WIDTH OF 16' SHALL BE USED DURING TIMBER REMOVAL ACTIVITIES.
  6. BRIDGES USED FOR MULTIPLE CROSSINGS AND LONG TERM USE SHALL BE INSTALLED WITH FABRIC, SECONDARY DECKING, AND SIDE BOARDS.
  7. IF RUTTING OCCURS AT THE ENTRANCES TO THE TIMBER MAT STRUCTURE, EROSION CONTROL MIX BERMS SHOULD BE INSTALLED AS SHOWN ABOVE.

**TYPICAL \"MAT\" BRIDGE FOR TEMPORARY STREAM CROSSING**  
NOT TO SCALE

**GENERAL NOTES:**

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24\"/>

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

**PATRIOT RENEWABLES**

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Stamp:

Drawing Title:  
**EROSION AND SEDIMENT CONTROL DETAILS AND NOTES**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC

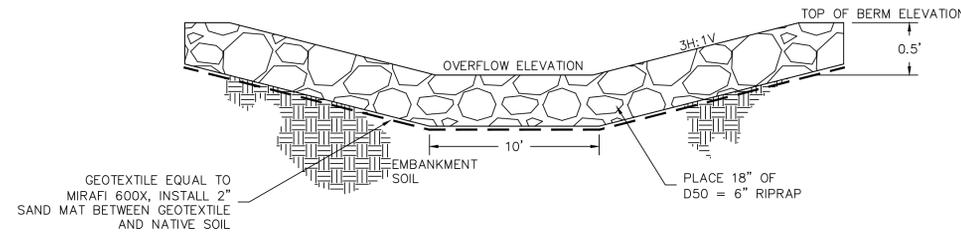
Project: CANTON MOUNTAIN WIND PROJECT  
CANTON, ME

Client: CANTON MOUNTAIN WIND, LLC

Sheet Number: 41 OF 44

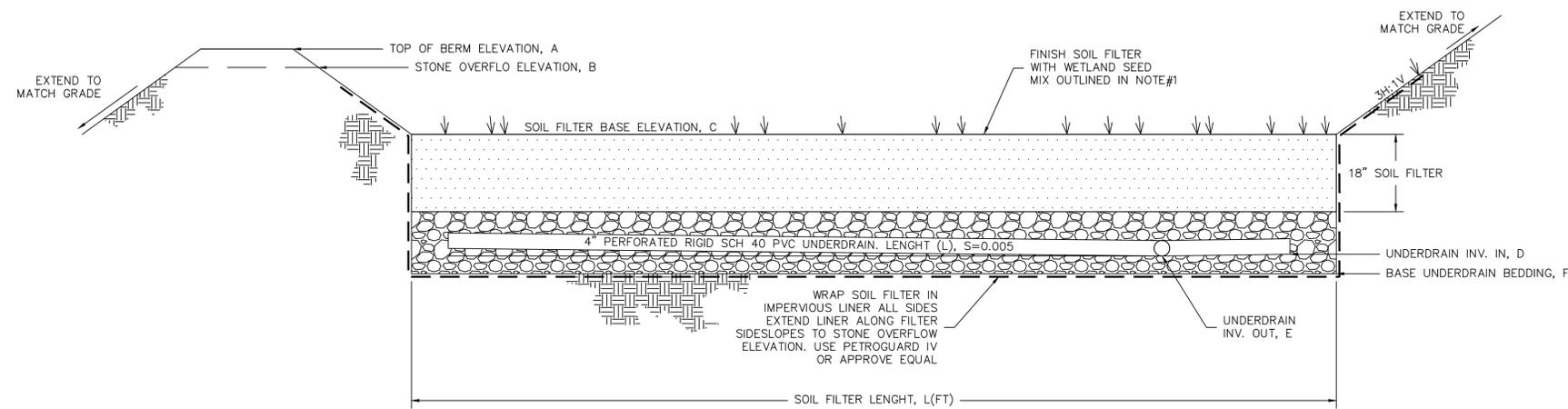
Dwg No.: C-511-33

**SOIL FILTER  
STONE OVERFLOW DETAIL  
DETAIL**  
NOT TO SCALE

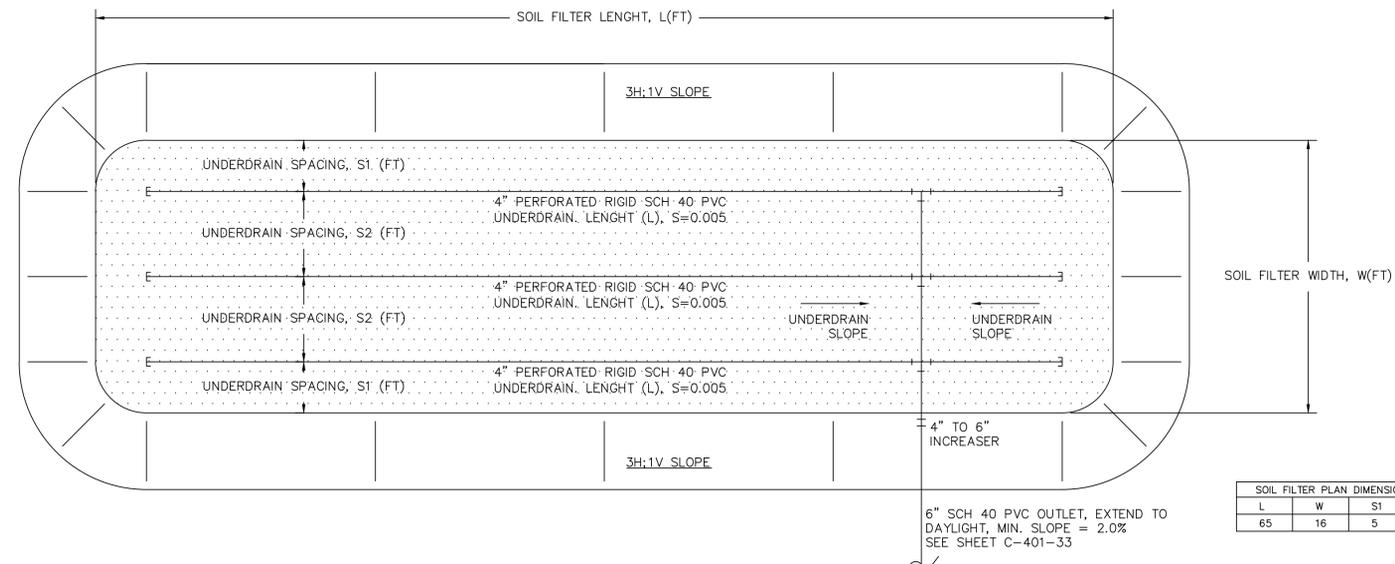


**SOIL FILTER  
SECTION DETAIL**  
NOT TO SCALE

SOIL FILTER SECTION ELEVATIONS (FT)					
A	B	C	D	E	F
486	485.5	484.5	482.25	482.00	481.5



**SOIL FILTER  
AT O&M BUILDING PAD**  
NOT TO SCALE



SOIL FILTER PLAN DIMENSIONS (FT)			
L	W	S1	S2
65	16	5	3

**SOIL FILTER NOTES**

1. THE UNDERDRAINED SOIL FILTER MUST BE PLANTED WITH A SPECIES TOLERANT OF FREQUENT INUNDATION SUCH AS A WETLAND MIX CONTAINING THE FOLLOWING:  

FOX SEDGE	BEARDED SEDGE	LURID SEDGE
SOFT RUSH	GRASS-LEAVED GOLDENROD	BONESET
HOP SEDGE	BLUE VERVAIN	NOODING SEDGE
GREEN BULRUSH	SENSITIVE RERN	BLUE FLAG IRIS
WOOLGRASS	SPOTTLED JOE PYE WEED	SWAMP MILKWEED
MONKEY FLOWER	SOFT SLEM BULRUSH	HARD-SLEM BULRUSH
NOODING BUR MARIGOLD	FLAT-TOP ASLER	
2. THE SOIL FILTER MEDIA AND VEGETATION MUST HAVE LESS THAN 2% CLAY CONTENT AND MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.
3. COMPACTION OF SOIL FILTER: FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST 2 LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
4. SOIL MEDIA MUST CONSIST OF A SILTY SAND SOIL (SIEVE ANALYSIS - TABLE 1) COMBINED WITH 20% TO 25% BY VOLUME OF A MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH OR OTHER ORGANIC SOURCE APPROVED BY THE DEPARTMENT. THE RESULTING MIXTURE MUST HAVE NO LESS THAN 85% PASSING THE 200 SIEVE.
5. UNDERDRAIN BEDDING SHALL BE MOOT SPEC 703.22 - UNDERDRAIN BACK FILL MATERIAL, TYPE B (SIEVE ANALYSIS - TABLE 2).
6. NO RUNOFF IS TO BE DIRECTED TO SOIL FILTER UNTIL FINAL STABILIZATION HAS OCCURRED.
7. CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:  
  - AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED,
  - AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,
  - AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDING, BIO-RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%,
  - AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
  - ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.

**TABLE 1**

SILTY SAND SOIL SIEVE ANALYSIS SPECIFICATION	
SIEVE SIZE	% BY WEIGHT
NO. 10	85-100
NO. 20	70-100
NO. 60	15-40
NO. 200	8-10

**TABLE 2**

BEDDING MATERIAL, MDOT #703.22	
SIEVE SIZE	% BY WEIGHT
UNDERDRAIN TYPE B	
1"	90-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

**SOIL FILTER MAINTENANCE**

- 1) CMW WILL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING THE UNDERDRAINED FILTERS. THE SPECIFIC MAINTENANCE DUTIES AND TIMETABLE IS SUGGESTED BELOW:
- 2) THE SOIL FILTER SHOULD BE INSPECTED AFTER EVERY MAJOR STORM IN THE FIRST FEW MONTHS TO ENSURE PROPER FUNCTION. THEREAFTER, THE FILTER SHOULD BE INSPECTED AT LEAST ONCE EVERY SIX MONTHS TO ENSURE THAT IT IS DRAINING WITHIN 24 HOURS
- 3) THE TOP SEVERAL INCHES OF THE FILLER SHALL BE REPLACED WITH FRESH MATERIAL WHEN WATER PONDS ON THE SURFACE OF THE BED FOR MORE THAN 72 HOURS. THE REMOVED SEDIMENTS SHOULD BE DISPOSED IN AN ACCEPTABLE MANNER.
- 4) SEDIMENT AND PLANT DEBRIS SHOULD BE REMOVED FROM THE PRETREATMENT STRUCTURE AT LEAST ANNUALLY.
- 5) FILTERS SHOULD BE MOWED NO MORE THAN 2 TIMES PER GROWING SEASON TO MAINTAIN GRASS HEIGHTS LESS THAN 12 INCHES.
- 6) FERTILIZATION OF THE UNDERDRAINED FILTER AREA SHOULD BE AVOIDED UNLESS ABSOLUTELY NECESSARY TO ESTABLISH VEGETATION.
- 7) HARVEST AND PRUNE EXCESSIVE GROWTH AS NEEDED TO CONTROL WEEDS AND INVASIVE PLANTS.

**GENERAL NOTES:**

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
7. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

A	DEP REVISIONS	06/13/12
No.	Revision/Issue	Date

Patriot Renewables  
  
 ENGINEERING & MANAGEMENT SERVICES, INC.  
54 SOUTH STREET SUITE 101 MA 02019  
 TEL: (617) 880-0600 FAX: (617) 880-0606

Stamp:

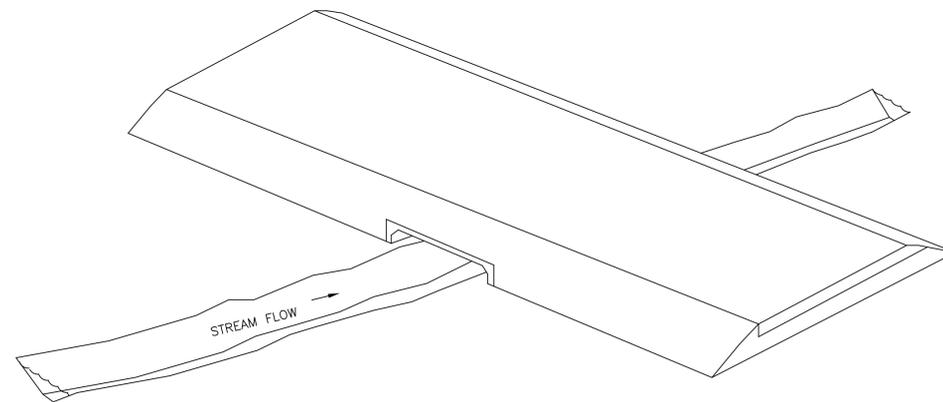
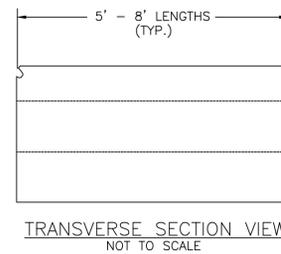
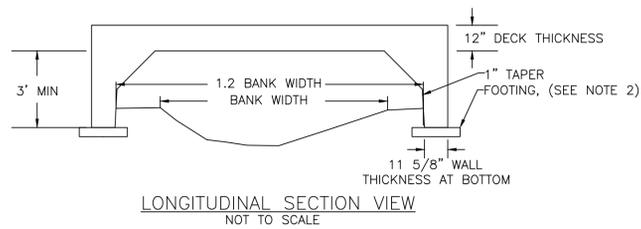
**UNDERDRAIN SOIL  
FILTER  
DETAILS AND NOTES**

Date: 12/15/11	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME	
Client: CANTON MOUNTAIN WIND, LLC	
Sheet Number: 42 OF 44	

Dwg No.:  
C-512-33

**STREAM CROSSINGS DETAIL**

NOT TO SCALE



**NOTES:**

1. CULVERT/BRIDGE STRUCTURE MUST PROVIDE AN OPENING WITH A CROSS-SECTIONAL AREA AT LEAST EQUAL TO 3 TIMES THE CROSS-SECTIONAL AREA OF THE STREAM CHANNEL OR SUFFICIENT IN SIZE TO ACCOMMODATE 25-YEAR FREQUENCY WATER FLOWS.
2. CULVERT/BRIDGE STRUCTURE TO BE PRECAST OR MODULAR CONCRETE BLOCKS WITH PRECAST PANELS
3. CULVERT/BRIDGE STRUCTURE MUST BE INSTALLED IN A MANNER TO PREVENT EROSION OF MATERIAL INTO THE RIVER, STREAM OR BROOK.
4. WHEELED OR TRACKED EQUIPMENT MAY NOT OPERATE IN THE WATER. EQUIPMENT OPERATING ON THE SHORE MAY, WHERE NECESSARY, REACH INTO THE WATER WITH A BUCKET OR SIMILAR EXTENSION. EQUIPMENT MAY CROSS STREAMS ON ROCK, GRAVEL OR LEDGE BOTTOM.
5. IF THE CROSSING INVOLVES TRENCHING OR DISTURBANCE OF SUBSTRATE IN A RIVER, STREAM OR BROOK BETWEEN OCTOBER 2 AND JULY 14, THE ACTIVITY MUST OCCUR DURING THE TIME PERIOD APPROVED BY THE DEP. THE APPROVED TIME PERIOD MAY BE THE TIME PERIOD PROPOSED BY THE APPLICANT OR AN ALTERNATIVE TIME PERIOD APPROVED BY THE DEP. AN ALTERNATIVE TIME PERIOD WILL BE REQUIRED WHERE IT APPEARS AN UNREASONABLE IMPACT ON WATER QUALITY OR FISHERIES MAY RESULT AT THE POINT OF CROSSING OR IMMEDIATELY DOWNSTREAM OF THE CROSSING. THE APPLICANT WILL BE NOTIFIED BY THE DEP WITHIN 14 DAYS IF AN ALTERNATIVE TIME PERIOD, OTHER THAN THE ONE PROPOSED BY THE APPLICANT, IS REQUIRED FOR CONSTRUCTING THE CROSSING.
6. ALL EXCAVATED MATERIAL MUST BE STOCKPILED EITHER OUTSIDE THE WETLAND OR ON MATS OR PLATFORMS.
7. HAY BALES, SILT FENCE OR EROSION CONTROL MIX BERM MUST BE USED, WHERE NECESSARY, TO PREVENT SEDIMENTATION.
8. SPECIAL CULVERT SECTION RESTS ON SMALL FOOTINGS, WHERE THE VENDOR OR CONTRACTOR DEEMS NEEDED
9. USE SPECIAL CULVERT SECTION FOR STREAMS OF SPECIAL INTEREST.
10. HEIGHT AND TOTAL SPAN WILL VARY AT BRIDGE CROSSINGS.
11. INTERIOR OF CULVERT TO BE CLEAR OF RIPRAP BACK FILL AND DEBRIS

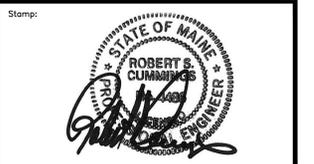
**GENERAL NOTES:**

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No.	Revision/Issue	Date
A	DEP REVISIONS	06/13/12

**PATRIOT RENEWABLES**

**EMS**  
ENGINEERING & MANAGEMENT SERVICES, INC.  
546 SOUTH STREET SUITE 101, MA 02039  
TEL: (617) 890-0600 FAX: (617) 890-0606



Drawing Title:  
**CULVERT/ BRIDGE STRUCTURE DETAILS AND NOTES**

Date:	12/15/11	Scale:	AS SHOWN
Drawn By:	GAD	Chk'd By:	RSC
Project: CANTON MOUNTAIN WIND PROJECT CANTON, ME			
Client: CANTON MOUNTAIN WIND, LLC			
Sheet Number: 43 OF 44			

Dwg No.:  
**C-513-33**

### Canton Mountain Wind Project

#### Stormwater Treatment Calculations:

Watersheds draining to the Androscoggin River, Webb River and Sevenmile Stream Watershed Chapter 500, Stormwater Management, Section 4.B.(3).(c) describes a linear project.  
Required stormwater treatment of impervious area = 75%

#### BMP ID Legend

BF = Forested buffer adjacent to road/small impervious area  
BM = Meadow buffer adjacent to road/small impervious area  
\*BF-BM = Treatmet occurs through both types of buffers  
LSF = Forested level lip spreader buffer  
LSM = Meadow level lip spreader buffer  
DTF = Forested Ditch Turnout  
DTM = Meadow Ditch Turnout  
SF = Soil filter

Road ID	Station Location	BMP ID	Soil HSG	Buffer Slope (ft./ft.)	Buffer Length (ft.)	Impervious Area (acres)	Impervious Area Treated (acres)
Access Road	82+06 to 95+68	-	-	-	-	0.375	0.000
Access Road	95+68 to 97+90	R	BF-BM 1	C	0.130	35-80	0.061
Access Road	97+90 to 99+95	R	-	-	-	-	0.056
Access Road	99+95 to 100+65	R	BF-BM 3	C	0.150	35-80	0.019
Access Road	100+65 to 101+65	R	BF-BM 4	C/D	0.183	35-80	0.028
Access Road	101+65 to 102+35	-	-	-	-	-	0.019
Access Road	102+35 to 105+15	R	BF-BM 5	C/D	0.148	35-80	0.077
Access Road	105+15 to 105+60	-	-	-	-	-	0.012
Access Road	105+60 to 108+20	R	BF-BM 6	C/D	0.201	35-80	0.072
Access Road	108+20 to 109+10	R	-	-	-	-	0.025
Access Road	109+10 to 110+35	R	-	-	-	-	0.034
Access Road	110+35 to 111+58	R	-	-	-	-	0.034
Access Road	111+58 to 113+35	R	-	-	-	-	0.049
Access Road	113+35 to 114+80	R	BF-BM 11	C/D	0.195	35-80	0.040
Access Road	114+80 to 115+30	R	BF-BM 12	C/D	0.165	35-30	0.014
Access Road	115+30 to 117+65	-	-	-	-	-	0.062
Access Road	117+65 to 118+80	L	BF-BM 13	C/D	0.070	35-20	0.036
Crane Road 1	00+00 to 00+80	R	-	-	-	-	0.039
Crane Road 1	00+80 to 02+40	R	-	-	-	-	0.044
Crane Road 1	02+40 to 05+20	R	-	-	-	-	0.077
Crane Road 1	05+20 to 08+20	R	-	-	-	-	0.083
Crane Road 1	08+20 to 10+15	-	-	-	-	-	0.054
Crane Road 1	10+15 to 11+75	R	BF-BM 17	C/D	0.120	35-100	0.044
Crane Road 1	11+75 to 12+65	R	BF-BM 18	C/D	0.109	35-70	0.025
Crane Road 1	12+65 to 13+20	R	BF-BM 19	C	0.182	35-70	0.015
Crane Road 1	13+20 to 14+40	R	BF-BM 20	C	0.164	35-80	0.033
Crane Road 1	14+40 to 16+00	R	BF-BM 21	C	0.128	35-110	0.044
Crane Road 1	16+00 to 18+60	R	BF-BM 22	C/D	0.095	35-70	0.072
Crane Road 1	18+60 to 22+05	R	BF-BM 23	C/D	0.100	35-30	0.095
Crane Road 1	22+05 to 23+84	R	BF-BM 24	C/D	0.116	35-30	0.049
Crane Road 2	00+00 to 00+95	-	-	-	-	-	0.026
Crane Road 2	00+95 to 03+10	L	BF-BM 25	C/D	0.095	35-25	0.059
Crane Road 2	03+10 to 03+80	-	-	-	-	-	0.019
Crane Road 2	03+80 to 04+20	R	BF-BM 26A	C/D	0.115	35-100	0.011
Crane Road 2	04+20 to 07+80	R	BF 26B	C/D	0.090	35	0.099
Crane Road 2	07+80 to 09+80	R	BF 27	C/D	0.079	35	0.055
Crane Road 2	09+80 to 11+15	R	BF-BM 28	C/D	0.123	35-22	0.037
Crane Road 2	11+15 to 11+95	L	BF-BM 29	C/D	0.136	35-22	0.022
Crane Road 2	11+95 to 15+30	L	BF-BM 30	C/D	0.154	35-45	0.092
Crane Road 2	15+30 to 18+50	L	BF-BM 31	C/D	0.169	35-45	0.088
Crane Road 2	18+50 to 22+20	L	BF-BM 32	C/D	0.163	35-40	0.102
Crane Road 2	22+20 to 25+50	L	BF-BM 33	C/D	0.200	35-35	0.091
Crane Road 2	25+50 to 29+00	-	-	-	-	-	0.096
Crane Road 2	29+00 to 31+25	L	BF-BM 43	C/D	0.173	150-30	0.062
Crane Road 2	31+25 to 34+60	-	-	-	-	-	0.092
Crane Road 2	34+60 to 36+30	L	BF-BM 34	C/D	0.085	35-22	0.047
Crane Road 2	36+30 to 37+30	L	BF-BM 35	C/D	0.085	35-150	0.028
Crane Road 2	37+30 to 39+25	L	BF-BM 44	C/D	0.051	150-60	0.054
Crane Road 2	39+25 to 41+15	L	BF-BM 36	C/D	0.054	35-150	0.052
Crane Road 2	41+15 to 43+35	R	BF-BM 37A	C/D	0.110	35-30	0.061
Crane Road 2	43+35 to 47+35	R	BF-BM 37B	C/D	0.120	35-40	0.110
Crane Road 2	47+35 to 47+85	R	BF-BM 38	C/D	0.160	35-40	0.014

### Canton Mountain Wind Project

#### Stormwater Treatment Calculations:

Watersheds draining to the Androscoggin River, Webb River and Sevenmile Stream Watershed Chapter 500, Stormwater Management, Section 4.B.(3).(c) describes a linear project.  
Required stormwater treatment of impervious area = 75%

#### BMP ID Legend

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BM = Meadow buffer adjacent to road/small impervious area  
\*BF-BM = Treatmet occurs through both types of buffers  
LSF = Forested level lip spreader buffer  
LSM = Meadow level lip spreader buffer  
DTF = Forested Ditch Turnout  
DTM = Meadow Ditch Turnout  
SF = Soil filter

Road ID	Station Location	BMP ID	Soil HSG	Buffer Slope (ft./ft.)	Buffer Length (ft.)	Impervious Area (acres)	Impervious Area Treated (acres)	
T01	Turbine Pad Access	BF-BM 39	C/D	0.103	150-22	0.032	0.032	
T01	Crane Pad	BF-BM 39	C/D	0.103	150-22	0.092	0.092	
T01	Turbine Gravel Ring	BF 39	C/D	0.175	150	0.016	0.016	
T01	Turbine Foundation	BF 39	C/D	0.175	150	0.010	0.010	
T02	Turbine Pad Access	BF-BM 40	C/D	0.070	150-65	0.059	0.059	
T02	Crane Pad	BF-BM 40	C/D	0.070	150-65	0.092	0.092	
T02	Turbine Gravel Ring	BF-BM 40	C/D	0.070	150-65	0.016	0.016	
T02	Turbine Foundation	BF-BM 40	C/D	0.070	150-65	0.010	0.010	
T03	Turbine Pad Access	BF-BM 41	C/D	0.148	150-80	0.069	0.069	
T03	Crane Pad	BF-BM 41	C/D	0.148	150-80	0.092	0.092	
T03	Turbine Gravel Ring	BF-BM 41	C/D	0.148	150-80	0.016	0.016	
T03	Turbine Foundation	BF-BM 41	C/D	0.148	150-80	0.010	0.010	
T04	Turbine Pad Access	BF-BM 42	C/D	0.145	150-55	0.013	0.013	
T04	Crane Pad	BF-BM 42	C/D	0.145	150-55	0.092	0.092	
T04	Turbine Gravel Ring	BF-BM 42	C/D	0.145	150-55	0.016	0.016	
T04	Turbine Foundation	BF-BM 42	C/D	0.145	150-55	0.010	0.010	
T05	Turbine Pad Access	BF-BM 43	C/D	0.168	150-50	0.013	0.013	
T05	Crane Pad	BF-BM 43	C/D	0.168	150-50	0.092	0.092	
T05	Turbine Gravel Ring	BF-BM 43	C/D	0.168	150-50	0.016	0.016	
T05	Turbine Foundation	BF-BM 43	C/D	0.168	150-50	0.010	0.010	
T06	Turbine Pad Access	BF-BM 44	C/D	0.051	150-60	0.008	0.008	
T06	Crane Pad	BF-BM 44	C/D	0.051	150-60	0.092	0.092	
T06	Turbine Gravel Ring	BF 44	C/D	0.083	150	0.016	0.016	
T06	Turbine Foundation	BF 44	C/D	0.083	150	0.010	0.010	
T07	Turbine Pad Access	BF-BM 45	C/D	0.123	150-35	0.041	0.041	
T07	Crane Pad	BF-BM 45	C/D	0.123	150-35	0.092	0.092	
T07	Turbine Gravel Ring	BF-BM 45	C/D	0.123	150-35	0.016	0.016	
T07	Turbine Foundation	BF-BM 45	C/D	0.123	150-35	0.010	0.010	
T08	Turbine Pad Access	BF-BM 46	C/D	0.155	150-100	0.044	0.044	
T08	Crane Pad	BF-BM 46	C/D	0.155	150-100	0.092	0.092	
T08	Turbine Gravel Ring	BF-BM 46	C/D	0.155	150-55	0.016	0.016	
T08	Turbine Foundation	BF-BM 46	C/D	0.155	150-55	0.010	0.010	
O&M Building Pad Access	00+00 to 02+00	L	-	-	-	0.066	0.000	
O&M Building Pad Access	02+00 to 03+61	L	BF-BM 47	C/D	0.156	50-40	0.044	
O&M Building	O&M Building Pad	SF	C/D	-	-	0.260	0.260	
* When water quality treatment happens through a BM-BF buffer. The runoff flows through the revegetated portion of the proposed roads. The length of the flow path varies depending on the slope of the road, this length determines the size of the buffer through the revegetated area. After the runoff has gone through the first stage of treatment it then goes through a 35' forested buffer. The slope on the BF varies according to the existing topology. The slope for the BM-BF buffer is determined based on the average slope of the flow path through the revegetated area and the forested buffer.						Totals:	4.598	3.262
<b>Impervious Area Eliminated:</b>								
Impervious Area	Total Area (acres)		Revised Totals:		4.198	3.262		
Existing Jeep Roads	0.400		Percentage Impervious Area Treated:		77.71%			
Total:	0.400		Percentage Required:		75.00%			

### Canton Mountain Wind Project

#### Stormwater Culvert Schedule:

Culvert	Road/Site ID	Station	Drainage	Q25	Culvert	Length	Inv. In	Inv. Out	Slope (ft./ft.)
RC-1	Ludden Lane	00+11	-	-	18	-	-	-	-
RC-2	Ludden Lane	07+80	-	-	15	-	-	-	-
RC-3	Ludden Lane	08+20	-	-	15	-	-	-	-
RC-4	Ludden Lane	10+91	-	-	15	-	-	-	-
RC-5	Ludden Lane	12+55	-	-	15	-	-	-	-
RC-6	Ludden Lane	15+25	-	-	12	-	-	-	-
RC-7	Ludden Lane	17+08	-	-	12	-	-	-	-
RC-8	Ludden Lane	19+95	-	-	15	-	-	-	-
RC-9	SIDE ROAD	-	-	-	12	-	-	-	-
RC-10	Ludden Lane	22+40	-	-	12	-	-	-	-
RC-11	Ludden Lane	26+40	-	-	15	-	-	-	-
RC-12	Ludden Lane	26+82	-	-	12	-	-	-	-
RC-13	Ludden Lane	30+25	-	-	15	-	-	-	-
RC-14	Ludden Lane	34+82	-	-	15	-	-	-	-
RC-15	Ludden Lane	37+64	-	-	15	-	-	-	-
RC-16	Ludden Lane	41+22	-	-	15	-	-	-	-
RC-17	Ludden Lane	47+55	-	-	18	-	-	-	-
RC-18	Ludden Lane	49+70	-	-	15	-	-	-	-
RC-19	Ludden Lane	59+50	-	-	15	-	-	-	-
RC-20	Ludden Lane	64+20	-	-	18	-	-	-	-
RC-21	Ludden Lane	66+61	-	-	15	-	-	-	-
RC-22	Ludden Lane	68+64	-	-	18	-	-	-	-
RC-23	Logging road	00+48	-	-	24	-	-	-	-
RC-24	Logging road	10+82	-	-	18	-	-	-	-
RC-25	Logging road	12+16	-	-	15	-	-	-	-
RC-26	Logging road	14+90	-	-	15	-	-	-	-
RC-27	Logging road	19+20	-	-	15	-	-	-	-
RC-28	Logging road	25+25	-	-	15	-	-	-	-
RC-29	Logging road	36+30	-	-	18	-	-	-	-
RC-30	Logging road	53+72	-	-	30	-	-	-	-
RC-31	SIDE ROAD	-	-	-	24	-	-	-	-
PC-1	Access Road	84+50	1.38	4.25	12	40	1183	1182	0.025
PC-2	Access Road	96+53	1.42	4.1	12	50	1238	1234	0.080
PC-3A	Access Road	97+95	4.53	13.04	15	38	1256.5	1255.5	0.026
PC-3B	Access Road	100+25	2.99	8.62	15	40	1286.5	1285.5	0.025
PC-4A	Access Road	105+20	5.40	15.56	18	47	1349	1348	0.021
PC-4B	Access Road	108+38	3.59	10.33	15	47	1349	1348	0.021
PC-5	Access Road	111+10	0.83	2.38	12	40	1427	1426	0.025
PC-6	Access Road	115+92	2.53	6.86	18	72	1472	1469	0.042
PC-7	Lower Ridge Road	00+62	0.83	2.38	12	76	1476	1472	0.053
PC-8	Lower Ridge Road	04+12	1.01	2.91	12	63	1456	1455	0.016
PC-9	Lower Ridge Road	06+70	0.55	1.59	12	50	1433	1432	0.020
PC-10	Lower Ridge Road	08+60	2.87	8.27	12	86	1409	1388	0.244
PC-11A	Lower Ridge Road	10+25	2.30	6.61	12	52	1334.5	1333	0.029
PC-11B	Lower Ridge Road	15+95	2.76	7.94	18	52	1334.5	1333	0.029
PC-12	T02 PAD	-	0.53	1.52	12	55	1509	1508	0.018
PC-13	Upper Ridge Road	16+75	1.38	3.97	12	55	1509	1508	0.018
PC-14	Upper Ridge Road	20+25	0.69	1.98	12	37	1506	1504	0.054

RC: Replacement Culvert  
PC: Proposed Culvert

#### Notes:

1. Provide minimum 2% slope on all culverts.
2. Culvert lengths are approximate. May require adjustment to fit field conditions

### Canton Mountain Wind Project

#### Underdrained Soil Filter Sizing Calculations

O&M Building Pad Soil Filter</	
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