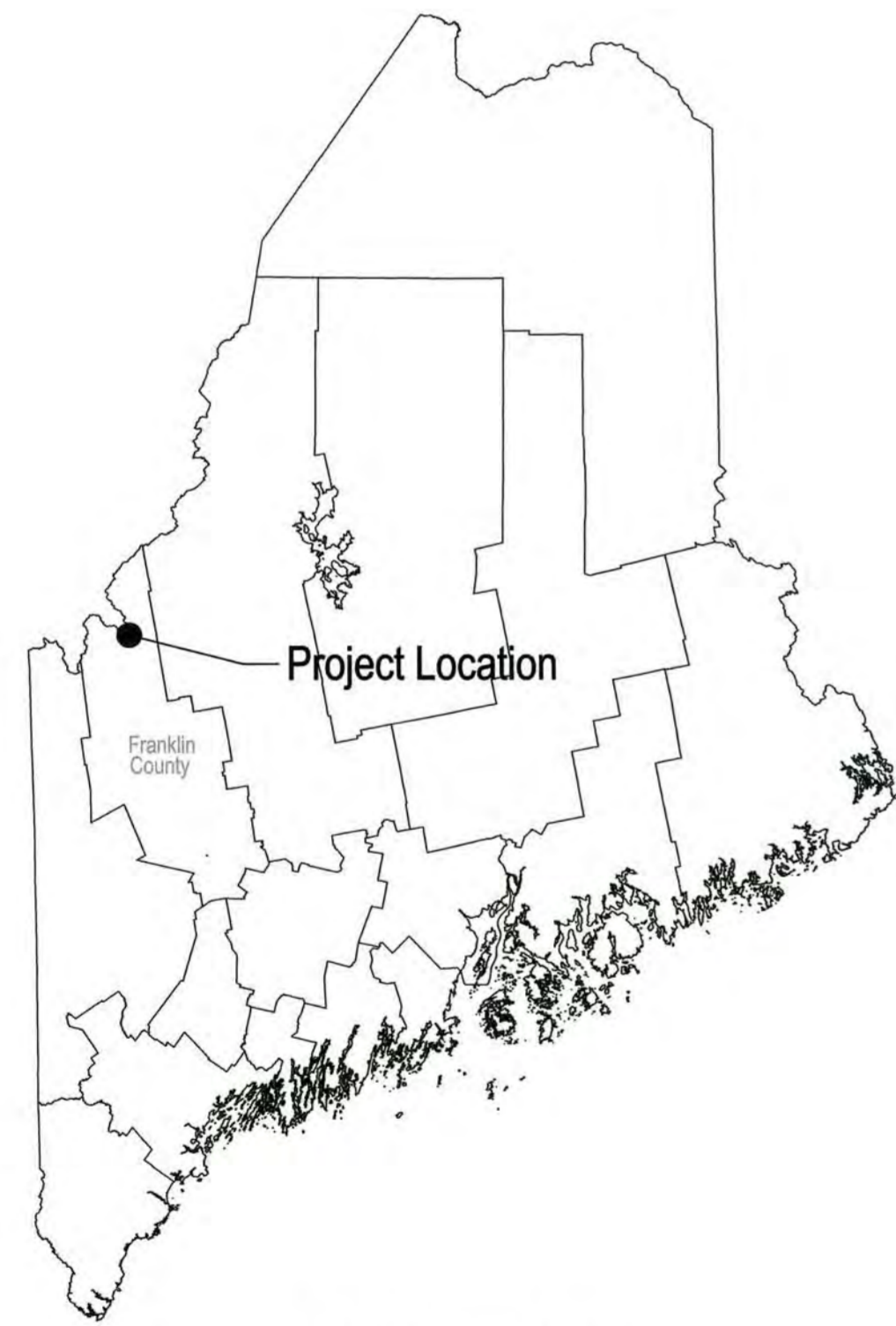
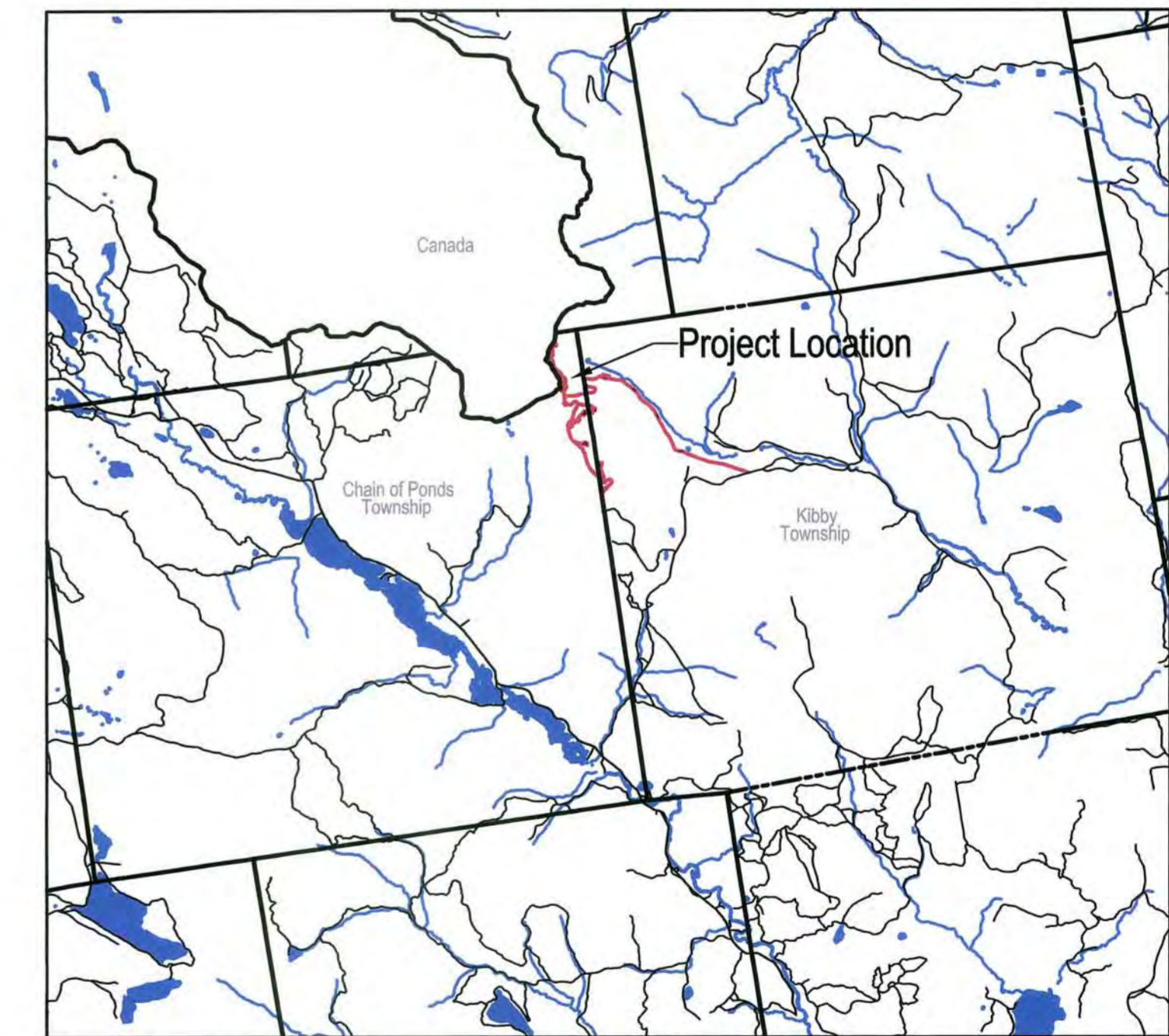


TransCanada Kibby Expansion Wind Power Project

Chain of Ponds Township
Kibby Township
Maine



State of Maine



Locus Map
1"=10,000'

Prepared by:

TRC

249 Western Avenue
Augusta, Maine 04330

Attachment B.13-1
Permit Plan Set

Issued For Permitting 12/18/09

TRC Proj No. 170019 & 170459



GENERAL NOTES

- 2FT CONTOURS DEVELOPED FROM LIDAR DATA OBTAINED FROM AERIAL SURVEY AND PHOTO, INC. IN AUGUST 2009. FOR THE AREAS OUTSIDE OF THE PROPOSED ROADS AND TURBINE PADS THE 10FT CONTOUR DATA WAS OBTAINED FROM USGS TOPOGRAPHIC QUADRANGLE INFORMATION.
- PLANIMETRIC AND TOPOGRAPHIC INFORMATION ARE SHOWN IN UTM ZONE 19, US-FEET, NAD 83. VERTICAL DATUM IS NAVD 1988 US-FEET. SEE DRAWING G-3 FOR PROJECT BENCHMARKS.
- SOIL SURVEY INFORMATION PROVIDED BY NRCS SOIL SURVEY DATA FOR FRANKLIN COUNTY, MAINE.
- NATURAL RESOURCE DATA, INCLUDING WETLAND DELINEATION BOUNDARIES, PROVIDED BY TRC.

CLEARING AND STOCKPILING OPERATIONS

- FLAG AND MARK LIMITS OF DISTURBANCE FOR ACCESS ROAD, LAYDOWN AREAS, RIDGE ROADS, WIND TURBINE GENERATOR (WTG) ASSEMBLY AREAS, SUBSTATION, AND COLLECTOR LINES, AND IDENTIFY AND MARK SENSITIVE RESOURCES.
- CONSTRUCT AND STABILIZE THE CONSTRUCTION ENTRANCE ON THE EXISTING PERMANENT ACCESS ROAD WITH A STONE PAD, MUD RACK, OR OTHER APPROVED MATERIALS TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT OFF THE SITE. STABILIZATION AND CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE PROJECT IS COMPLETE.
- INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE.
- ACCESS ROADS, EQUIPMENT LAYDOWN AREA, WTG ASSEMBLY AREAS, AND THE SUBSTATION AREA: CLEAR TIMBER AND BRUSH WITHIN LIMIT OF DISTURBANCE. GRUBBING SHALL BE PERFORMED AFTER ESTABLISHMENT AND STABILIZATION OF TEMPORARY OR PERMANENT DRAINAGE COURSES BUT JUST PRIOR TO PRELIMINARY GRADING AND STUMPS SHALL BE GROUND TO GRADE OR REMOVED AND GROUND ON-SITE TO GENERATE EROSION CONTROL MIX (ECM).
- RIDGE ROADS: IN FILL AREAS LESS THAN 5 FEET, CLEAR TIMBER AND BRUSH AND GRUB AS DESCRIBED IN 4 ABOVE. IN FILL AREAS EXCEEDING 5 FEET, GRUBBING AND STUMP REMOVAL IS NOT REQUIRED.
- MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME BY STAGING CONSTRUCTION AS MUCH AS PRACTICAL FOR EFFICIENT CONSTRUCTION OF THE PROJECT. WHERE FEASIBLE, CONTRACTOR OPERATIONS SHALL MAINTAIN THE NATURAL COVER MATERIAL OR USE NATURAL VEGETATIVE BUFFER STRIPS TO AID IN SEDIMENT RETENTION, AND TO REDUCE THE POTENTIAL OF SOIL EROSION.
- STRIPPED TOPSOIL SHALL BE STOCKPILED ON-SITE WITHIN DISTURBED AREAS FOR USE IN STABILIZING ACCESS ROAD DITCHES AND ECM, FOR FINAL STABILIZATION OF RIDGE ROAD SHOULDERS, WTG ASSEMBLY AREAS, EQUIPMENT LAYDOWN AREAS, AND SLOPES. STOCKPILED TOPSOIL THAT REMAINS IN-PLACE FOR 48 HOURS OR MORE SHALL BE CONTAINED WITHIN A BARRIER AS DETAILED HEREIN. THE BARRIERS SHALL BE ADEQUATELY LOCATED AND REINFORCED TO PREVENT COLLAPSE DURING A SIGNIFICANT RAIN EVENT AND THE POTENTIAL SLUMPING OF THE PILE. BETWEEN APRIL 15 AND NOVEMBER 1, APPLY TEMPORARY SEED AND MULCH TO A STOCKPILE THAT IS NOT EXPECTED TO BE DISTURBED WITHIN 30 DAYS. APPLY ANCHORED MULCH AS NEEDED OR DIRECTED DURING WINTER CONSTRUCTION.
- STOCKPILE GENERATED ECM ON-SITE WITHIN DISTURBED AREAS.
- REMOVE EXCESS SPOILS FROM SITE THAT WILL NOT BE USED FOR THE FINAL DESIGN AND STABILIZATION.

CONSTRUCTION OF ACCESS ROADS, ASSEMBLY AREAS, RIDGE ROADS, SUBSTATION, AND WAHL ROAD IMPROVEMENTS

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL USE SURVEY CREWS TO ACCURATELY LOCATE ALL IMPROVEMENTS INCLUDING ROADWAY CENTERLINES AND LIMITS OF DISTURBANCE. PROVIDE ADDITIONAL STAKING AND MARKING AT LOCATIONS WHERE STORMWATER CONTROL MEASURES ARE TO BE INSTALLED.
- DUE TO DIFFERING SITE CONDITIONS, MINOR HORIZONTAL AND VERTICAL ADJUSTMENTS, WITHIN PERMIT CONSTRAINTS, MAY BE NECESSARY FOR PROPER CONSTRUCTION AND INTERPRETATION OF THE CONTRACT DRAWINGS. ALL ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

CONSTRUCTION OF PERMANENT STORMWATER MANAGEMENT SYSTEMS

- GRADING TO BE CONDUCTED IN ACCORDANCE WITH PERMITTED PERMANENT STORMWATER MANAGEMENT DESIGN.
- ONCE FINAL GRADES ARE ACHIEVED, EXPOSED SOIL SURROUNDING THE STORMWATER MANAGEMENT STRUCTURES SHALL BE PERMANENTLY STABILIZED.

CRANE PAD CONSTRUCTION

- FOLLOWING CONSTRUCTION OF THE WTG ASSEMBLY AREA SUBGRADES, BRING ASSEMBLY AREAS AND CRANE PADS TO FINISH GRADE WITH 4-INCH MINUS CRUSHED STONE. SPREAD AND COMPACT MATERIAL AS NECESSARY TO THE LIMITS DEPICTED ON CONTRACT DOCUMENTS. MINOR VERTICAL ADJUSTMENTS, WITHIN PERMIT CONSTRAINTS, MAY BE NECESSARY TO ACCOMMODATE SPECIFIC SITE CONDITIONS. ALL ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- PORTIONS OF THE WTG ASSEMBLY AREA WITHIN A 50-FOOT RADIUS OF THE TURBINE GENERATOR AND THE CRANE PAD SHALL REMAIN AS A PERMANENT DISTURBANCE. ALL OTHER AREAS WITHIN THE WTG ASSEMBLY AREA SHALL BE PERMANENTLY STABILIZED WITH ECM AS INDICATED. PRIOR TO PERMANENT STABILIZATION, THE CONTRACTOR SHALL PERMANENTLY PIN THE FOUR CORNERS OF THE WTG LAYDOWN AREA.

CLEAN-UP & FINAL STABILIZATION

- FINAL STABILIZATION WILL BE DONE WITHIN 7 DAYS OF FINAL GRADING OR WITHIN 30 DAYS OF INITIAL SOIL DISTURBANCE.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED OF CONSTRUCTION DEBRIS & OTHER MATERIALS.
- SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY WORK TRAILERS; REMOVAL OF MATERIAL & EQUIPMENT; DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; ROUGH GRADING & STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES; FILLING OF ANY EXCAVATIONS; & REPAIRING RUTS IN ACCESS ROADS.

WINTER CONSTRUCTION NOTES

- THE WINTER CONSTRUCTION PERIOD SHALL BE FROM NOVEMBER 1 THROUGH APRIL 15.
- WHERE FEASIBLE, A MINIMUM 25-FT BUFFER SHALL BE MAINTAINED BETWEEN ECB OR OTHER PERIMETER CONTROLS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
- DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- ACCEPTABLE OVER-WINTER STABILIZATION SHALL CONSIST OF VEGETATION (MIN. 75% MATURE), MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR GRAVEL ROAD BASE.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT REQUIRE EARTH DISTURBANCE (e.g., CONSTRUCTION FENCE AND SILT FENCE) SHALL BE INSTALLED PRIOR TO THE GROUND FREEZING. DURING FROZEN CONDITIONS, BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS (ECB).
- FROM NOVEMBER 1 TO APRIL 15, MULCH SHALL BE INSTALLED AT DOUBLE THE NORMAL RATE. NETTING OR OTHER MEANS APPROVED BY THE ENGINEER SHALL BE USED TO MINIMIZE WIND EROSION OF MULCHING.
- PRIOR TO STABILIZATION, ICE AND SNOW SHALL BE REMOVED TO LESS THAN 1-IN.
- IF VEHICLE TRAFFIC IS ANTICIPATED AROUND STRUCTURES UNDER CONSTRUCTION, THE AREA SHALL BE STABILIZED WITH STONE.
- EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE USED UNTIL THAWED. STOCKPILES SHALL BE ENCLOSED WITH EROSION CONTROL MIX BERMS.
- EXCAVATION OF SOILS IN SHALLOW GROUNDWATER AREAS SHALL BE MINIMIZED IF AT ALL POSSIBLE DURING WINTER, AND LIMITED TO ONLY THOSE AREAS THAT CAN BE STABILIZED DURING THE SAME DAY.
- TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
 - IF NO PRECIPITATION IS FORECAST WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
 - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS TURBINE FOUNDATIONS AND OPEN UTILITY TRENCHES.
- THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ASSOCIATED EROSION PREVENTION AND SEDIMENT CONTROL MEASURES (e.g., CONSTRUCTION FENCE AND SILT FENCE) TO ACCOMMODATE ANTICIPATED SNOW STORAGE AREAS.
- AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCE, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL COVER. DURING WINTER CONSTRUCTION A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. NATURAL RESOURCE CROSSINGS SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.
- STOCKPILES OF SOIL SHALL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX.
- MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES OR BARE SPOTS.
- WINTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH REGULATORY PERMIT. PERMIT REQUIREMENTS SHALL SUPERCEDE ANY DISCREPANCY IN ABOVE LISTED NOTES.

COLLECTOR SYSTEM GENERAL NOTES

- MINIMUM GROUND CLEARANCE IS 18.5 FT
- MINIMUM GROUND CLEARANCE ABOVE ROAD IS 24 FT
- LOADING CRITERIA, CLEARANCES AND CABLE TENSIONS BASED ON NESC 2007
- CONDUCTOR 795 ACSR 'DRAKE' FOR DOUBLE CIRCUIT (HOME RUN)
- CONDUCTOR 477 ACSR 'HANK' FOR SINGLE CIRCUIT (ON THE RIDGE)
- NEUTRAL IS AN OPTICAL GROUND WIRE (OPGW)
- 24 FIBER ADSS CABLE FROM NEW SUBSTATION TO KIBBY SUBSTATION
- TURBINES 1 THROUGH 8 ARE SUPPLIED FROM ONE CIRCUIT. TURBINES 9 THROUGH 15 ARE SUPPLIED FROM SECOND CIRCUIT (SEE ONE LINE DRAWING, SS-1, FOR DETAILS)
- WOOD POLE STRUCTURES NOT EXCEEDING CLASS H1 WERE USED (POLE STRUCTURES BASED ON COLLECTOR SYSTEM FOR KIBBY WIND PROJECT)

CIVIL ABBREVIATIONS

&	AND
ø, DIA	DIAMETER
#, NO	NUMBER
APP'D	APPROVED
AR	TANGENT RIGID STRUCTURE
BLDG	BUILDING
CB	CATCH BASIN
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL, C	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
COR	CORNER
CY	CUBIC YARD
DEMO	DEMOLITION
DER	DEAD END RIGID STRUCTURE
DMH	DRAIN MANHOLE
DI	DUCTILE IRON
DR	DRAIN
DWG	DRAWING
ECB	EROSION CONTROL BERM
ECM	EROSION CONTROL MIX
EL	ELEVATION
EMH	ELECTRIC MANHOLE
FM	FORCE MAIN
FT	FEET
G	GAS
HDPE	HIGH DENSITY POLYETHYLENE
HTD	HYDRANT
IN	INCH
INF	INFLUENT
INV	INVERT
LF	LINEAR FEET
LBS	POUNDS
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MW	MONITORING WELL
N	NORTH
NAD83	NORTH AMERICAN DATUM 1983
NAVDB8	NORTH AMERICAN VERTICAL DATUM 1988
N/A	NOT AVAILABLE/APPLICABLE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PC	PERFORATED CLAY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PS	PRIMARY SLUDGE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R, RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
S	SLOPE, SEWER
SD	STORM DRAIN
SF	SQUARE FEET
SMH	SANITARY SEWER MANHOLE
SQ	SQUARE
STA	STATION
T, XFMR	TRANSFORMER
T/FNDN	TOP OF FOUNDATION
TEB	TEMPORARY BENCH MARK
THK	THICKNESS
TOS	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UTM	UNIVERSAL TRANSVERSE MERCATOR
VC	VITRIFIED CLAY
W/	WITH
W	POTABLE WATER
WTG	WIND TURBINE GENERATOR

EXISTING

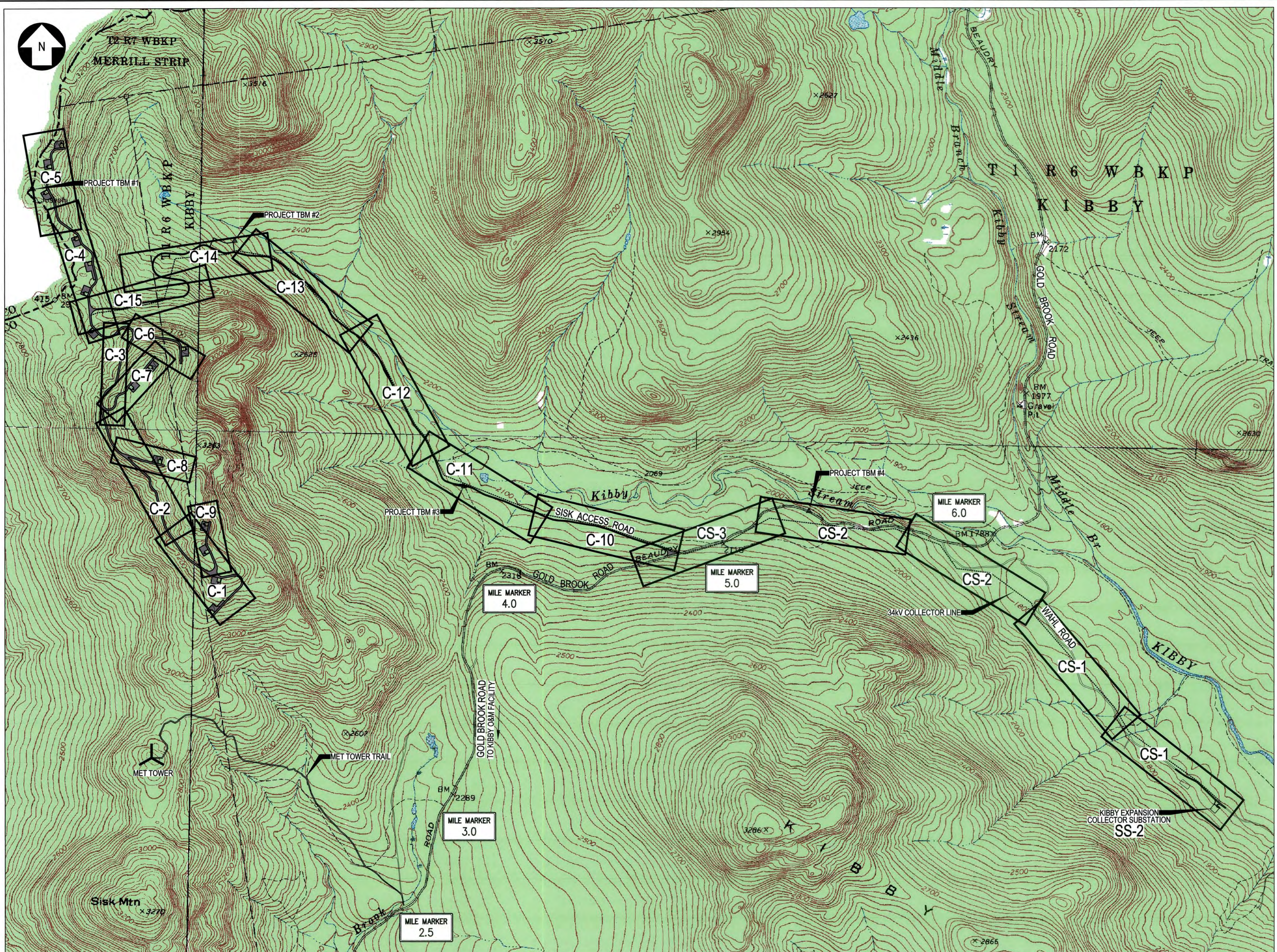
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---	SETBACK LINE
---	CENTERLINE
---	EDGE OF PAVEMENT
---	EDGE OF GRAVEL
---	CONTOUR
---	BUILDING
---	STONEWALL
---	TREELINE
---	CHAIN LINK FENCE
---	CULVERT
---	UNDERGROUND
---	34KV COLLECTOR
---	OVERHEAD
---	34KV COLLECTOR
---	OVERHEAD
---	115KV TRANSMISSION
---	UTILITY POLE
---	UTILITY POLE W/GUY
---	FORCE MAIN
---	SURVEY CONTROL POINT
---	SPOT ELEVATION
---	CONIFEROUS TREE
---	DECIDUOUS TREE
---	EDGE OF WATER
---	STREAM
---	EDGE OF WETLANDS
---	WETLANDS
---	DRAINAGE FLOW
---	DRAINAGE SWALE
---	SIGN
---	STONE CHECK DAM
---	EROSION CONTROL BERM
---	LIMIT OF DISTURBANCE
---	FILL SLOPE
---	RIPRAP
---	MATCHLINE
---	STABILIZED CONSTRUCTION
---	ROCK SANDWICH CONSTRUCTION
---	TURBINE LOCATOR
---	EXPEDITED ZONE BOUNDARY
---	SUB ALPINE FIR HABITAT
---	BICKNELL THRUSH OVERALL HABITAT
---	BICKNELL THRUSH CORE HABITAT

LEGEND

PROPOSED

---	TOWN BOUNDARY
---	SETBACK LINE
---	CENTERLINE
---	EDGE OF PAVEMENT
---	EDGE OF GRAVEL
---	CONTOUR
---	BUILDING
---	STONEWALL
---	TREELINE
---	CHAIN LINK FENCE
---	CULVERT
---	UNDERGROUND
---	34KV COLLECTOR
---	OVERHEAD
---	34KV COLLECTOR
---	OVERHEAD
---	115KV TRANSMISSION
---	UTILITY POLE
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---	SPOT ELEVATION
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---	EDGE OF WATER
---	STREAM
---	EDGE OF WETLANDS
---	WETLANDS
---	DRAINAGE FLOW
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---	SIGN
---	STONE CHECK DAM
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---	LIMIT OF DISTURBANCE
---	FILL SLOPE
---	RIPRAP
---	MATCHLINE
---	STABILIZED CONSTRUCTION
---	ROCK SANDWICH CONSTRUCTION
---	TURBINE LOCATOR
---	EXPEDITED ZONE BOUNDARY
---	SUB ALPINE FIR HABITAT
---	BICKNELL THRUSH OVERALL HABITAT
---	BICKNELL THRUSH CORE HABITAT

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.		CLIENT APPROVAL	TRC/KAV DESIGNED	PROJECT NOTES, LEGEND & ABBREVIATIONS			
								APPROVED BY	TRC/KAV DRAWN	TRANSCANADA			
								COMPANY	TRC/DTB CHECKED	KIBBY EXPANSION WIND POWER PROJECT			
								DATE	APPROVED	CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE			
								REVIEWED	TRC	249 WESTERN AVENUE AUGUSTA, ME 04330 PROJECT NO: 170019	G-2	REV. A	
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796				SCALE: AS NOTED	DATE: 10-26-09		



DRAWING INDEX

- G-1 TITLE SHEET
- G-2 PROJECT NOTES, LEGEND & ABBREVIATIONS
- G-3 OVERALL LOCATION MAP & DRAWING INDEX

- C-1 PLAN & PROFILE: RIDGE ROAD STA 0+00 TO 30+00
- C-2 PLAN & PROFILE: RIDGE ROAD STA 30+00 TO 60+00
- C-3 PLAN & PROFILE: RIDGE ROAD STA 60+00 TO 90+00
- C-4 PLAN & PROFILE: RIDGE ROAD STA 90+00 TO 120+00
- C-5 PLAN & PROFILE: RIDGE ROAD STA 120+00 TO 136+35
- C-6 PLAN & PROFILE: T-12/13 SPUR ROAD STA 0+00 TO 12+40
- C-7 PLAN & PROFILE: T-11 SPUR ROAD STA 0+00 TO 9+30
- C-8 PLAN & PROFILE: T-9/10 SPUR ROAD STA 0+00 TO 17+99
- C-9 PLAN & PROFILE: T-8 SPUR ROAD STA 0+00 TO 14+20

- C-10 PLAN & PROFILE: ACCESS ROAD STA 0+00 TO 30+00
- C-11 PLAN & PROFILE: ACCESS ROAD STA 30+00 TO 60+00
- C-12 PLAN & PROFILE: ACCESS ROAD STA 60+00 TO 90+00
- C-13 PLAN & PROFILE: ACCESS ROAD STA 90+00 TO 120+00
- C-14 PLAN & PROFILE: ACCESS ROAD STA 120+00 TO 150+00
- C-15 PLAN & PROFILE: ACCESS ROAD STA 150+00 TO 174+77

- C-16 CIVIL DETAILS I
- C-17 CIVIL DETAILS II
- C-18 CIVIL DETAILS III
- C-19 CIVIL DETAILS IV
- C-20 CIVIL DETAILS V

- C-21 EROSION CONTROL DETAILS I
- C-22 EROSION CONTROL DETAILS II

- SS-1 SYSTEM POWER ONE LINE
- SS-2 SUBSTATION SITE PLAN
- SS-3 SUBSTATION CROSS SECTION & DETAILS
- SS-4 WAHL ROAD PROFILE

- CS-1 34KV COLLECTION SYSTEM PLAN I
- CS-2 34KV COLLECTION SYSTEM PLAN II
- CS-3 34KV COLLECTION SYSTEM PLAN III
- CS-4 34KV STRUCTURE DETAILS I
- CS-5 34KV STRUCTURE DETAILS II
- CS-6 34KV STRUCTURE DETAILS III

- SW-1 PRE-DEVELOPMENT WATERSHED PLANS - KIBBY STREAM WATERSHED
- SW-2 PRE-DEVELOPMENT WATERSHED PLANS - GOLD BROOK WATERSHED
- SW-3 PRE-DEVELOPMENT WATERSHED PLANS - COLLECTOR SUBSTATION WATERSHED
- SW-4 POST-DEVELOPMENT WATERSHED PLANS - KIBBY STREAM WATERSHED
- SW-5 CURVE NUMBER EVALUATION & PHOSPHORUS PLAN - GOLD BROOK WATERSHED
- SW-6 POST-DEVELOPMENT WATERSHED PLANS - COLLECTOR SUBSTATION WATERSHED
- SW-7 CURVE NUMBER EVALUATION & PHOSPHORUS PLAN - CHAIN OF PONDS WATERSHED

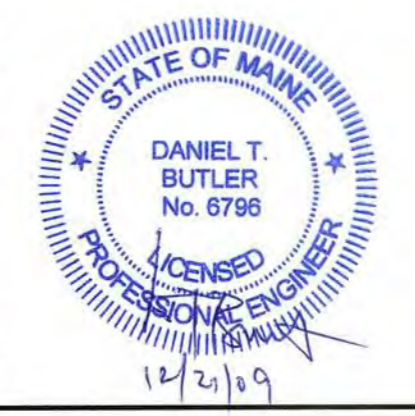
PROJECT BENCHMARKS

- #1 AERIAL CONTROL SPIKE LOCATED WITHIN US/CANADIAN BORDER CLEARCUT ELEVATION=3160.35 (NAVD88)
- #2 AERIAL CONTROL SPIKE LOCATED ALONG EXISTING SKIDDER TRAIL ELEVATION=2439.97 (NAVD88)
- #3 AERIAL CONTROL SPIKE LOCATED ALONG EXISTING ACCESS ROAD ELEVATION=2128.84 (NAVD88)
- #4 AERIAL CONTROL SPIKE LOCATED ALONG GOLD BROOK ROAD, MILE 5.5± ELEVATION=2014.58 (NAVD88)

OVERALL LOCATION MAP
SCALE: 1"=1000'

NOTES:
1. SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
B	REVISED TITLE FOR SW-5 & SW-7	12/20/09	PGT	DTB	DTB	6796
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



CLIENT APPROVAL	TRC/KAV DESIGNED
APPROVED BY	TRC/KAV DRAWN
COMPANY	TRC/DTB CHECKED
DATE	APPROVED
	REVIEWED

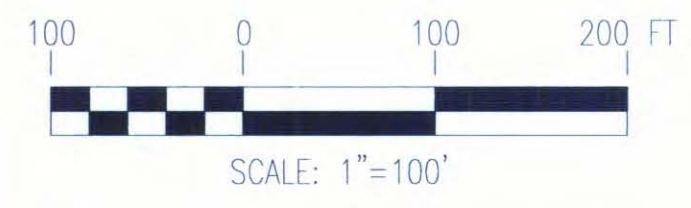
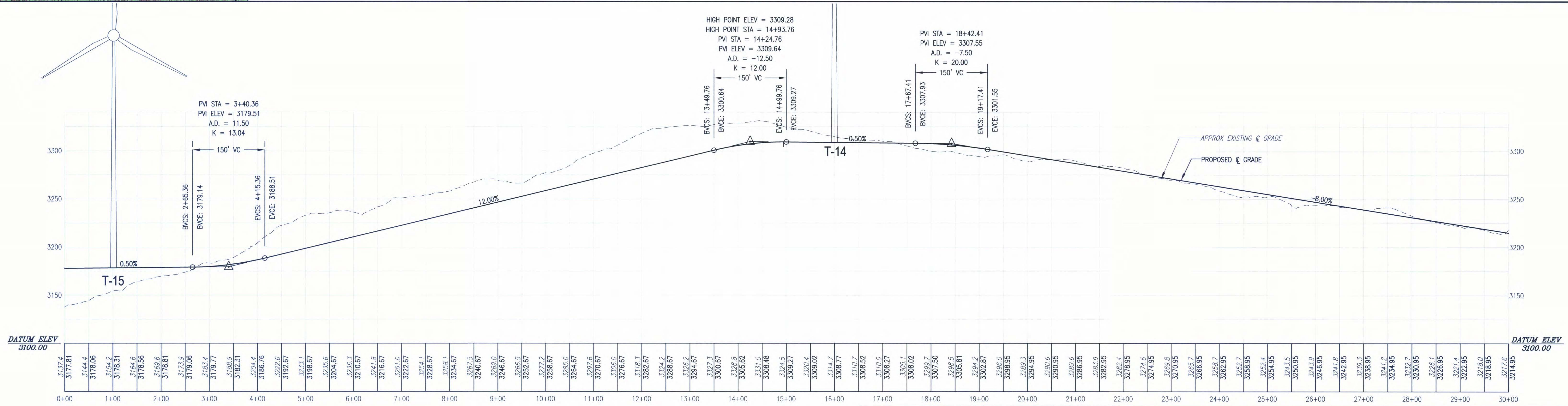
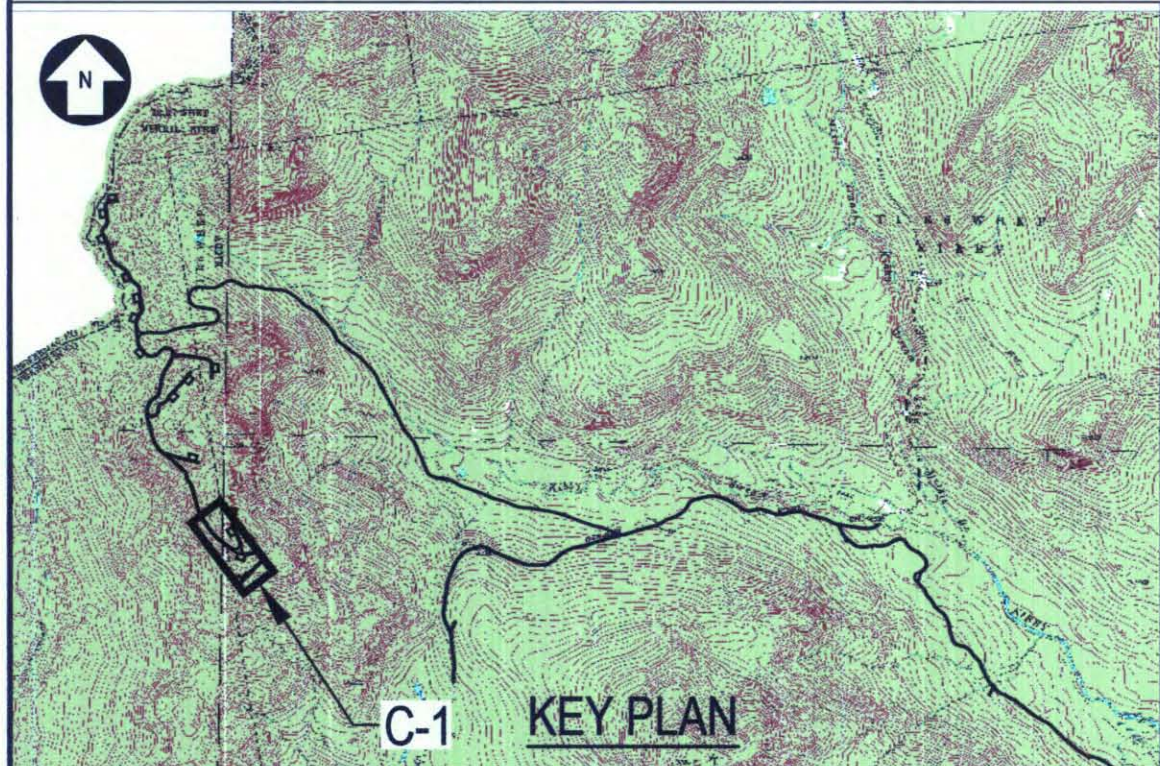
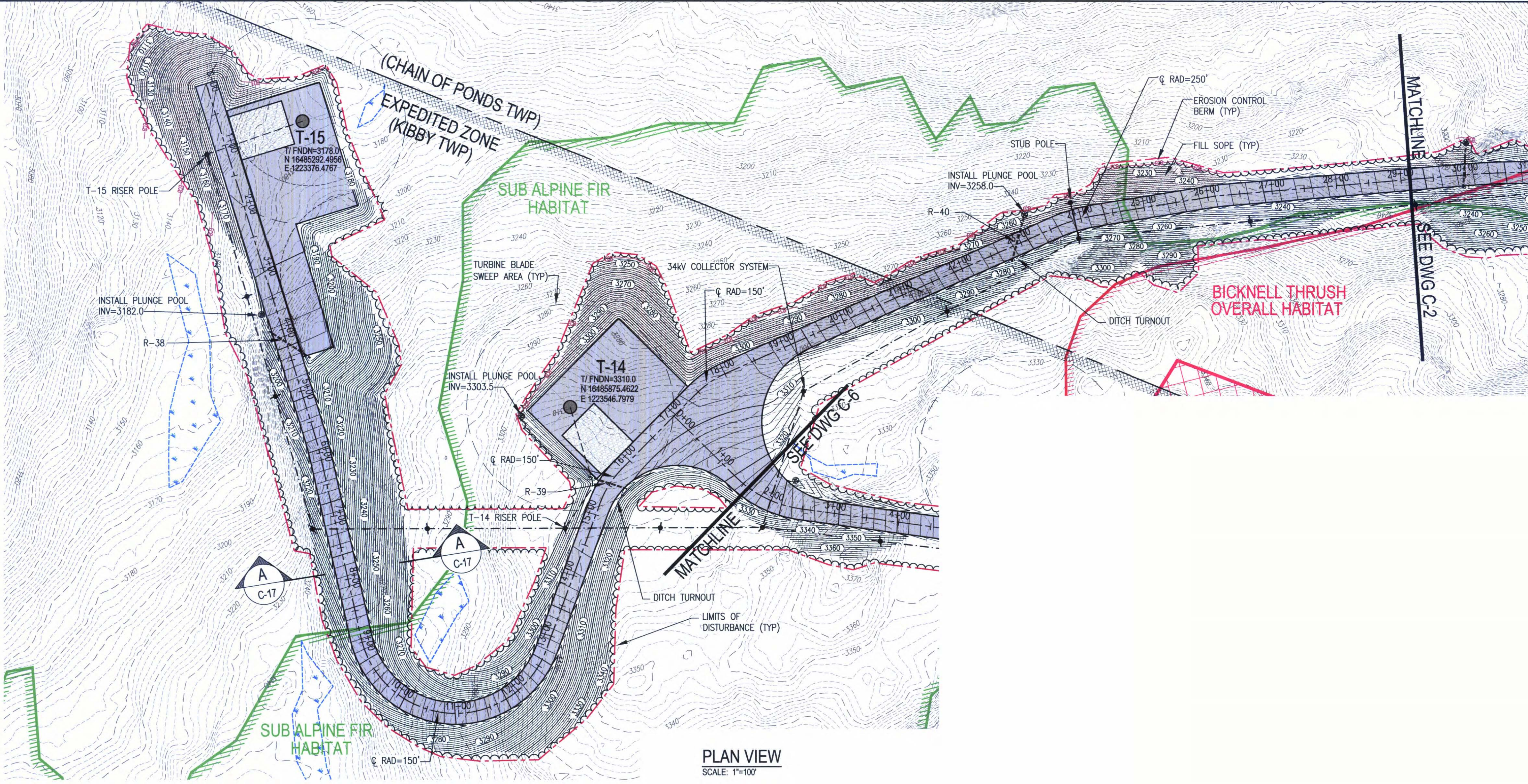
OVERALL LOCATION MAP & DRAWING INDEX

TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

TRC 249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 170019
DATE: 10-8-09

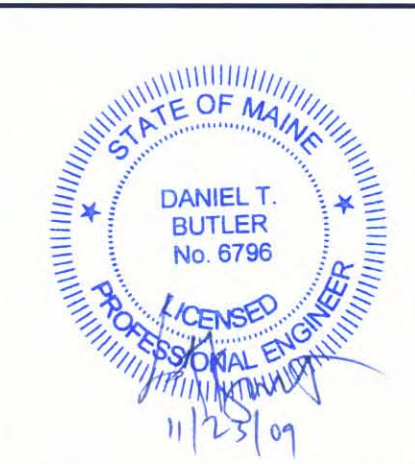
G-3

REV. B



- NOTES:**
- SEE DRAWING C-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING C-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



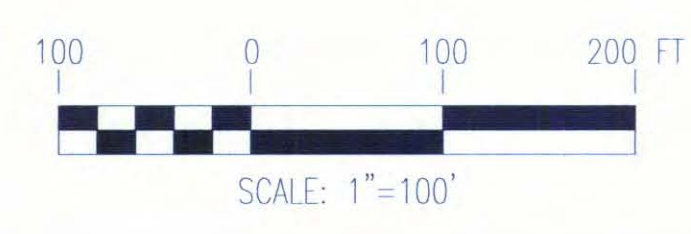
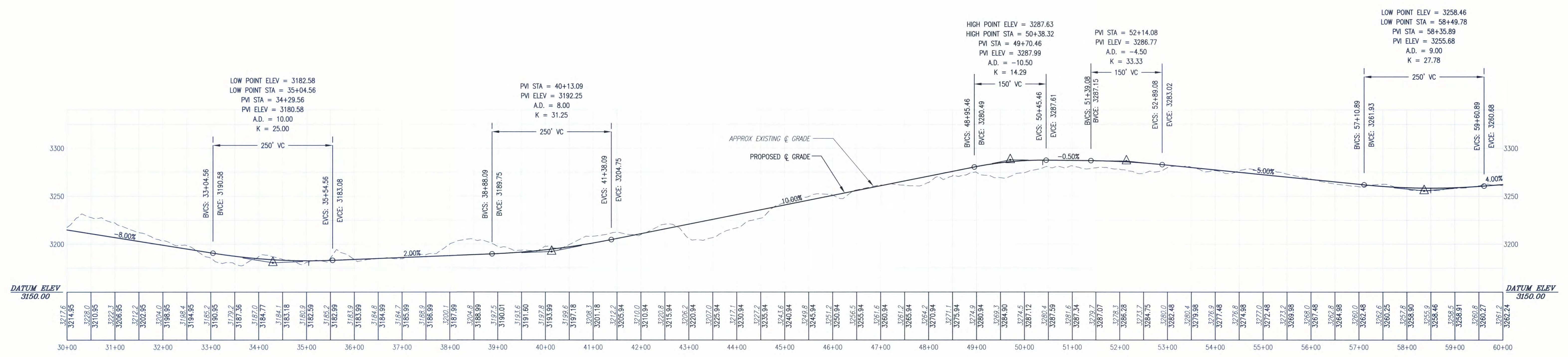
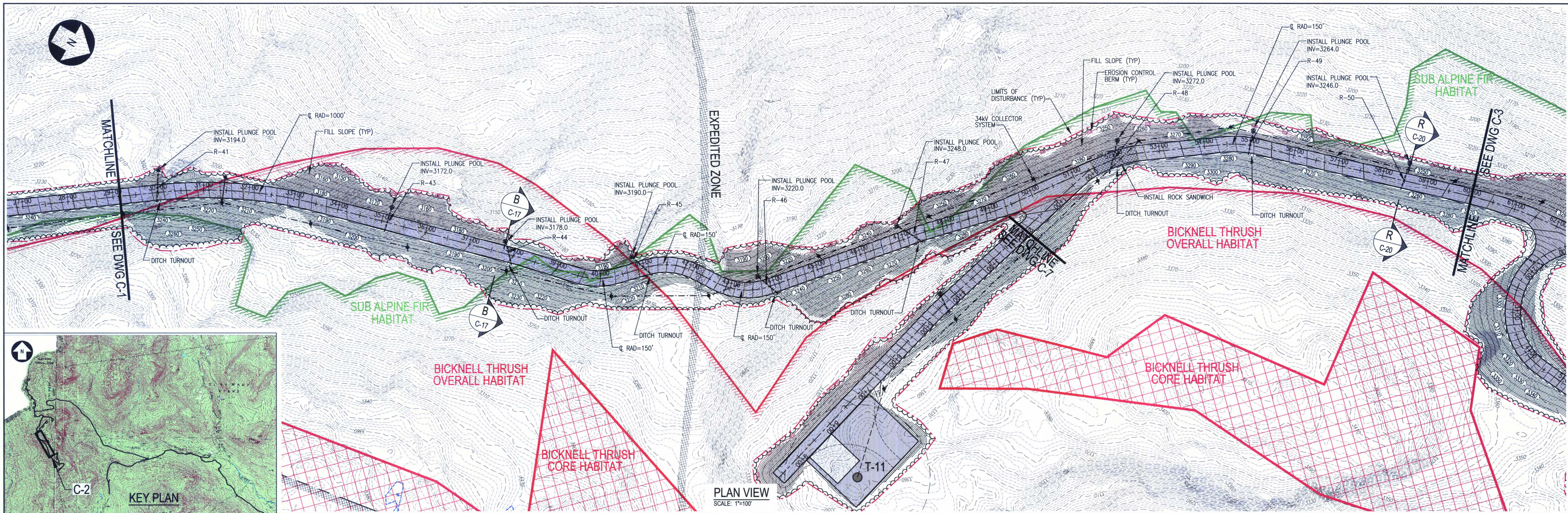
CLIENT APPROVAL	TRC/KAV DESIGNED
APPROVED BY	TRC/KAV DRAWN
COMPANY	TRC/DTB CHECKED
DATE	APPROVED
REVIEWED	

PLAN & PROFILE: RIDGE ROAD
 STA 0+00 TO 30+00
 TRANSCANADA
 KIBBY EXPANSION WIND POWER PROJECT
 CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

TRC 249 WESTERN AVENUE
 AUGUSTA, ME 04330
 PROJECT NO: 170019
 DATE: 10-8-09

SCALE: AS NOTED

C-1
 REV. A



- NOTES:**
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796

DANIEL T. BUTLER
No. 6796
LICENSED PROFESSIONAL ENGINEER
STATE OF MAINE

CLIENT APPROVAL

APPROVED BY: _____

COMPANY: _____

DATE: _____

TRC/KAV DESIGNED

TRC/KAV DRAWN

TRC/DTB CHECKED

APPROVED

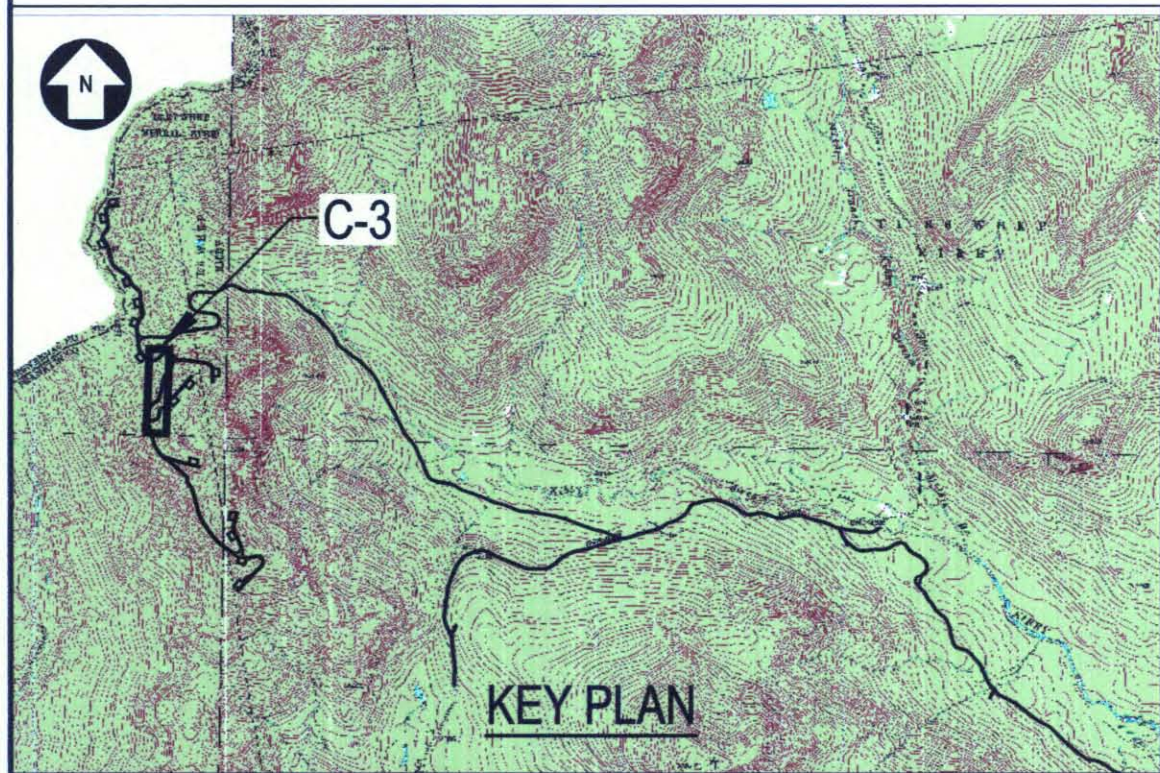
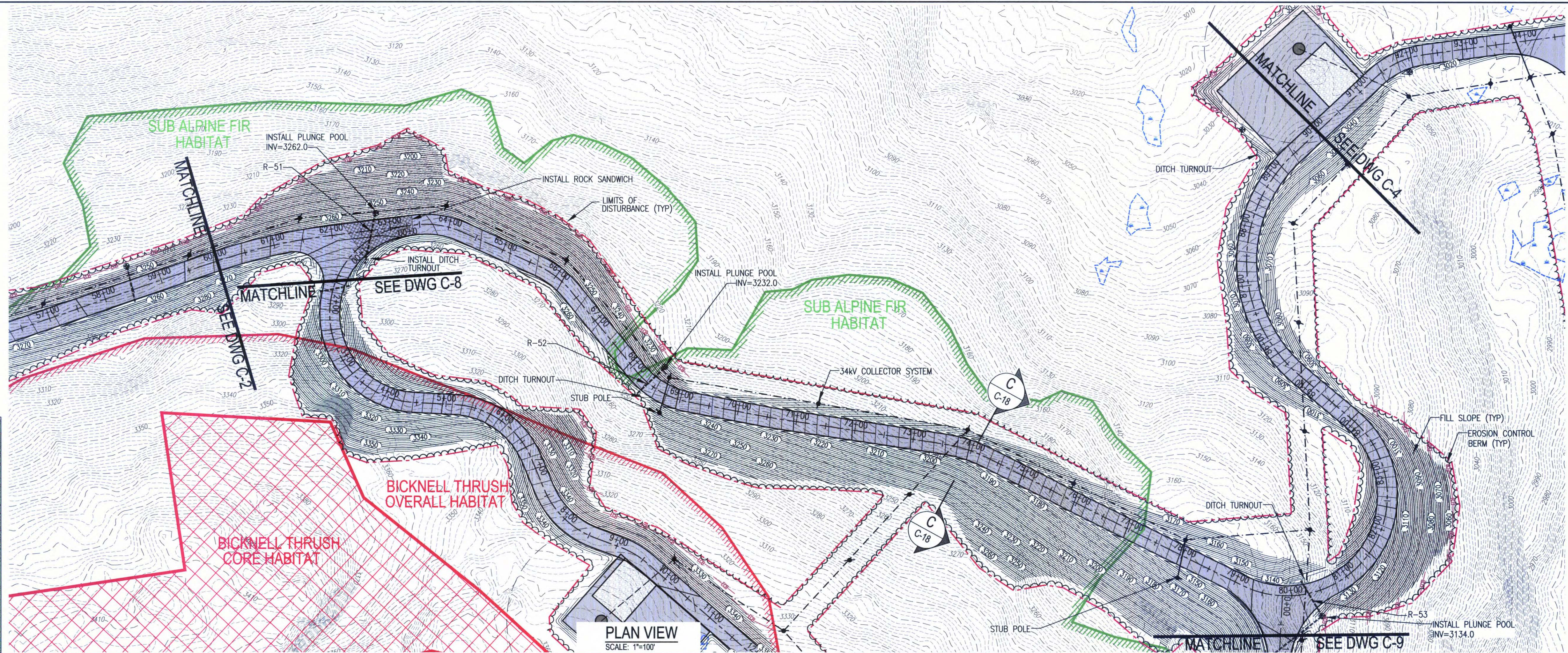
REVIEWED

PLAN & PROFILE: RIDGE ROAD
STA 30+00 TO 60+00
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

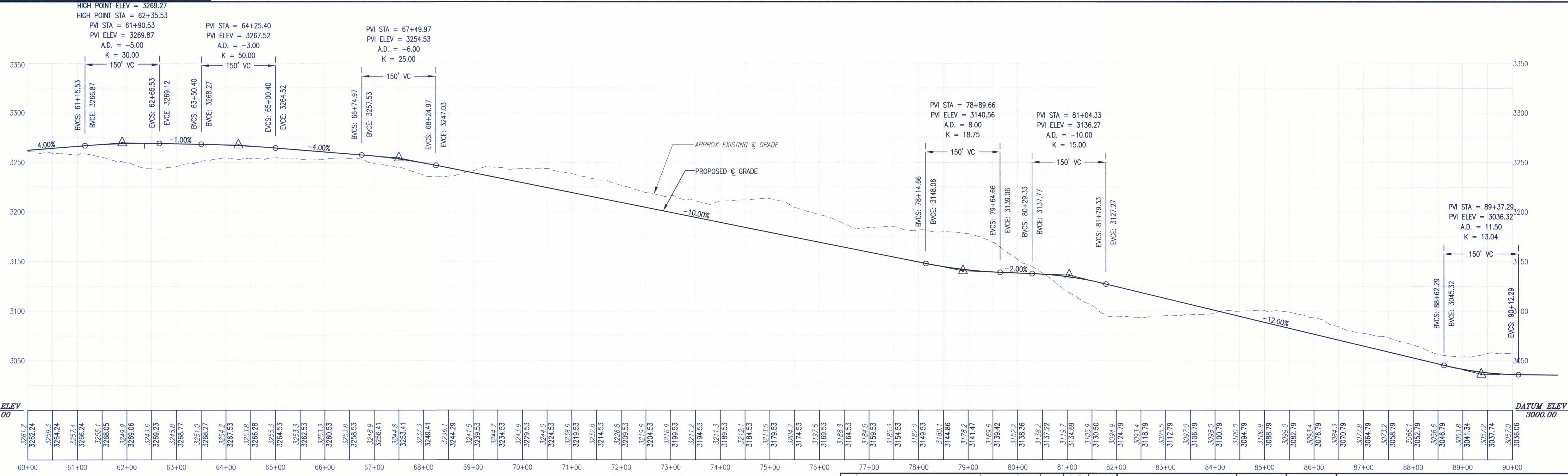
SCALE: AS NOTED

DATE: 10-8-09

REV. A



PLAN VIEW
SCALE: 1"=100'



PROFILE: STA 60+00 TO 90+00
SCALE: HORIZ: 1"=100'
VERT: 1"=50'

- NOTES:**
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



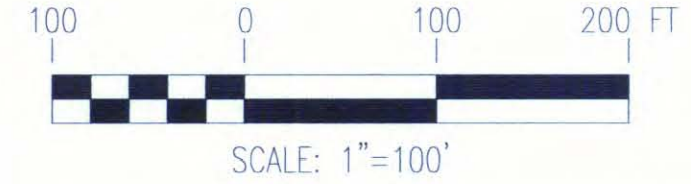
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TRC/KAV DESIGNED	TRC/KAV DRAWN
APPROVED BY	TRC/DTB CHECKED
COMPANY	APPROVED
DATE	REVIEWED

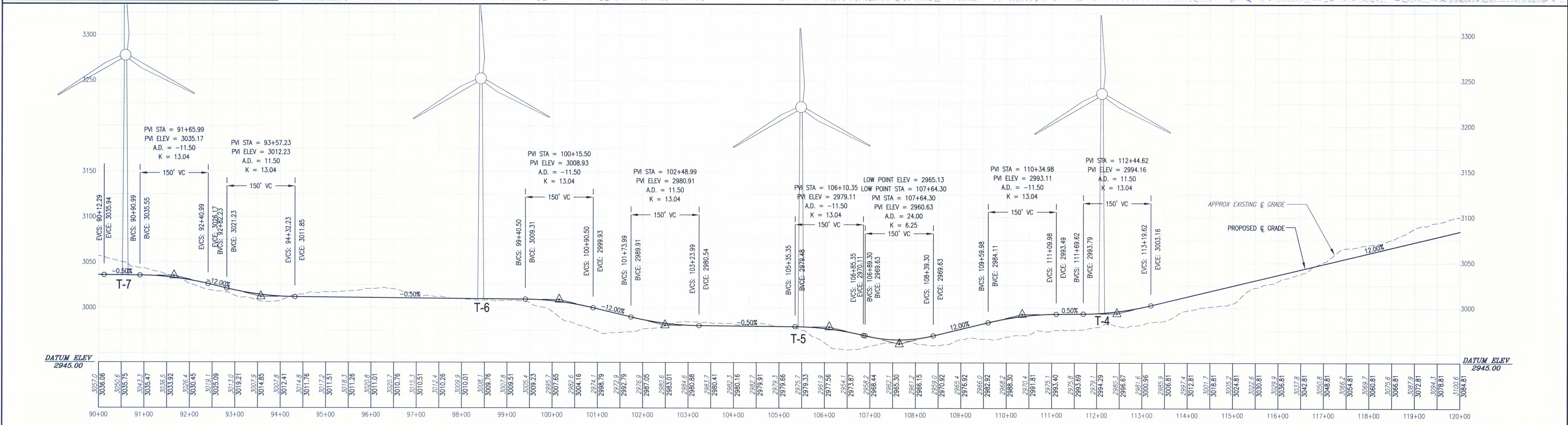
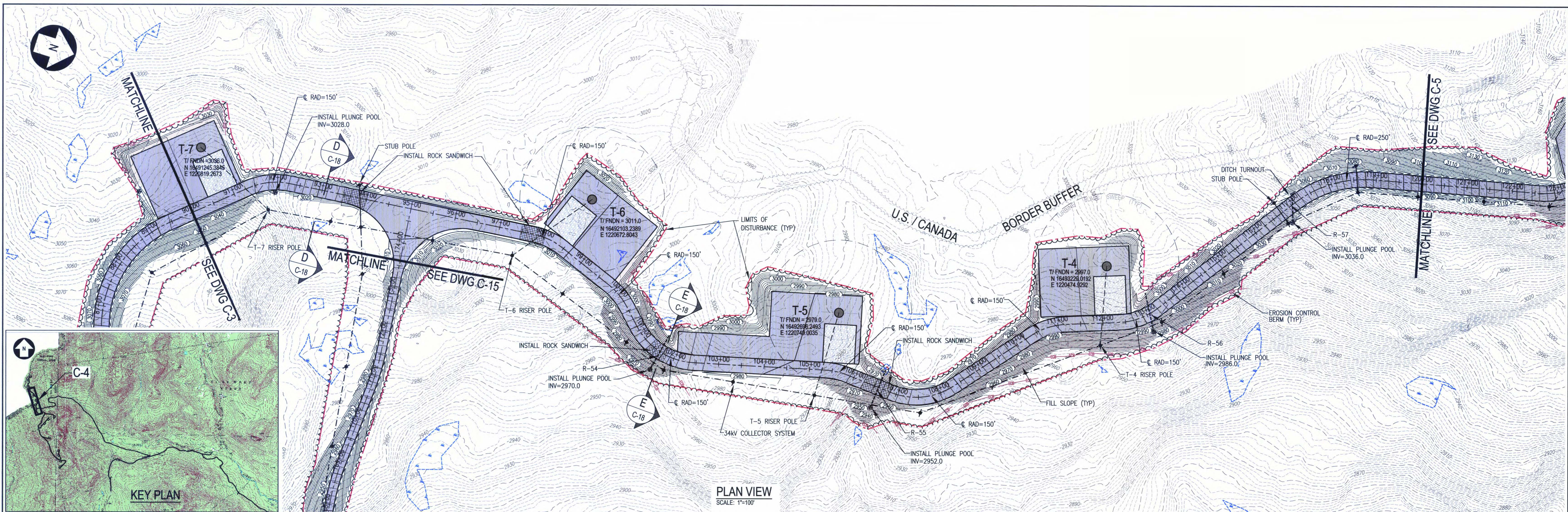
PLAN & PROFILE: RIDGE ROAD
STA 60+00 TO 90+00
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

TRC 249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 170019
DATE: 10-8-09

C-3

REV. A

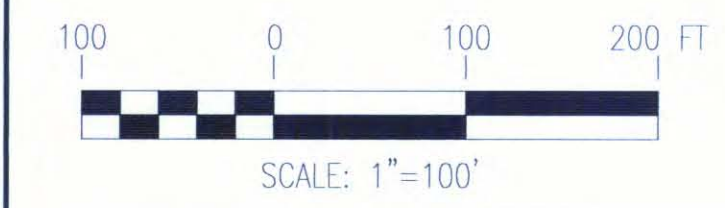




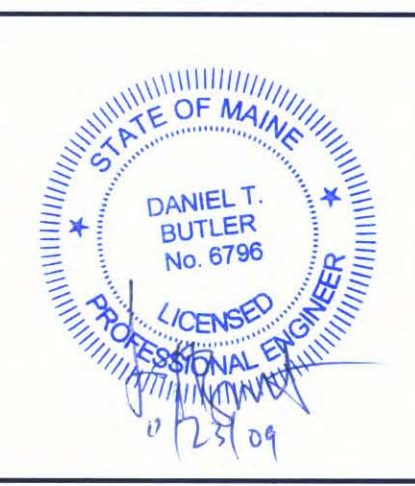
NOTES:

- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

PROFILE: STA 90+00 TO 120+00
 SCALE: HORIZ: 1"=100'
 VERT: 1"=50'



NO.	REVISION	DATE	BY	CK	P.E. STAMPED	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



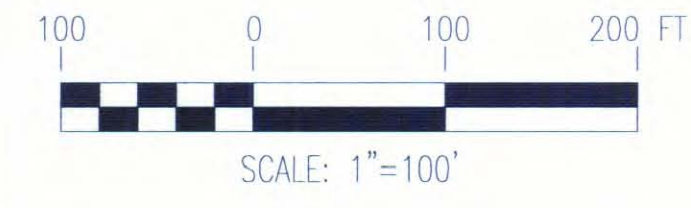
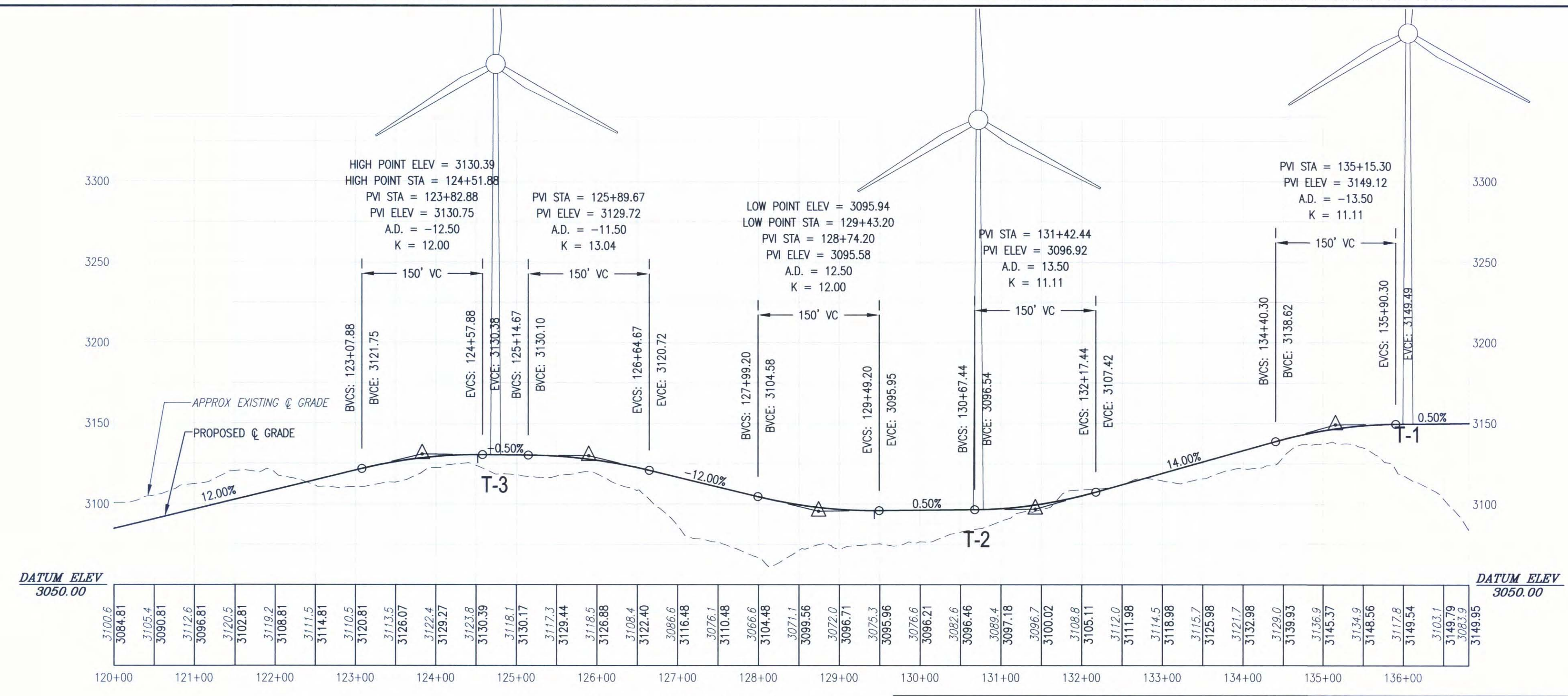
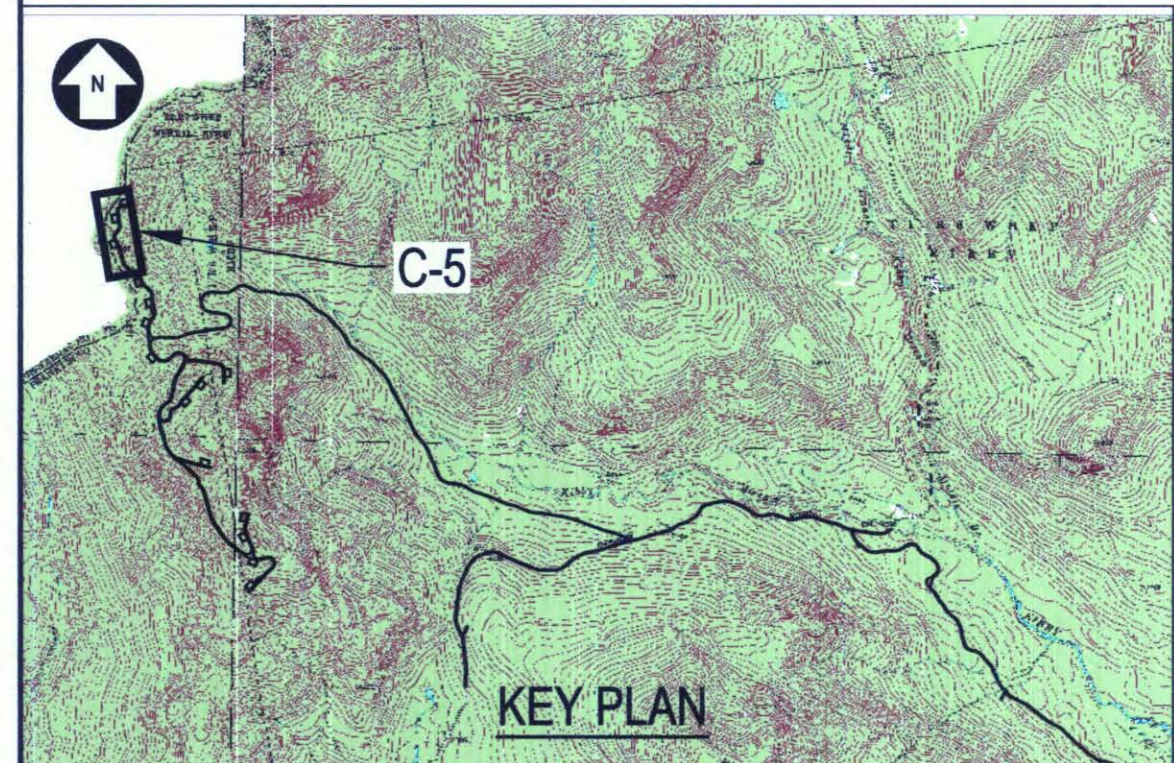
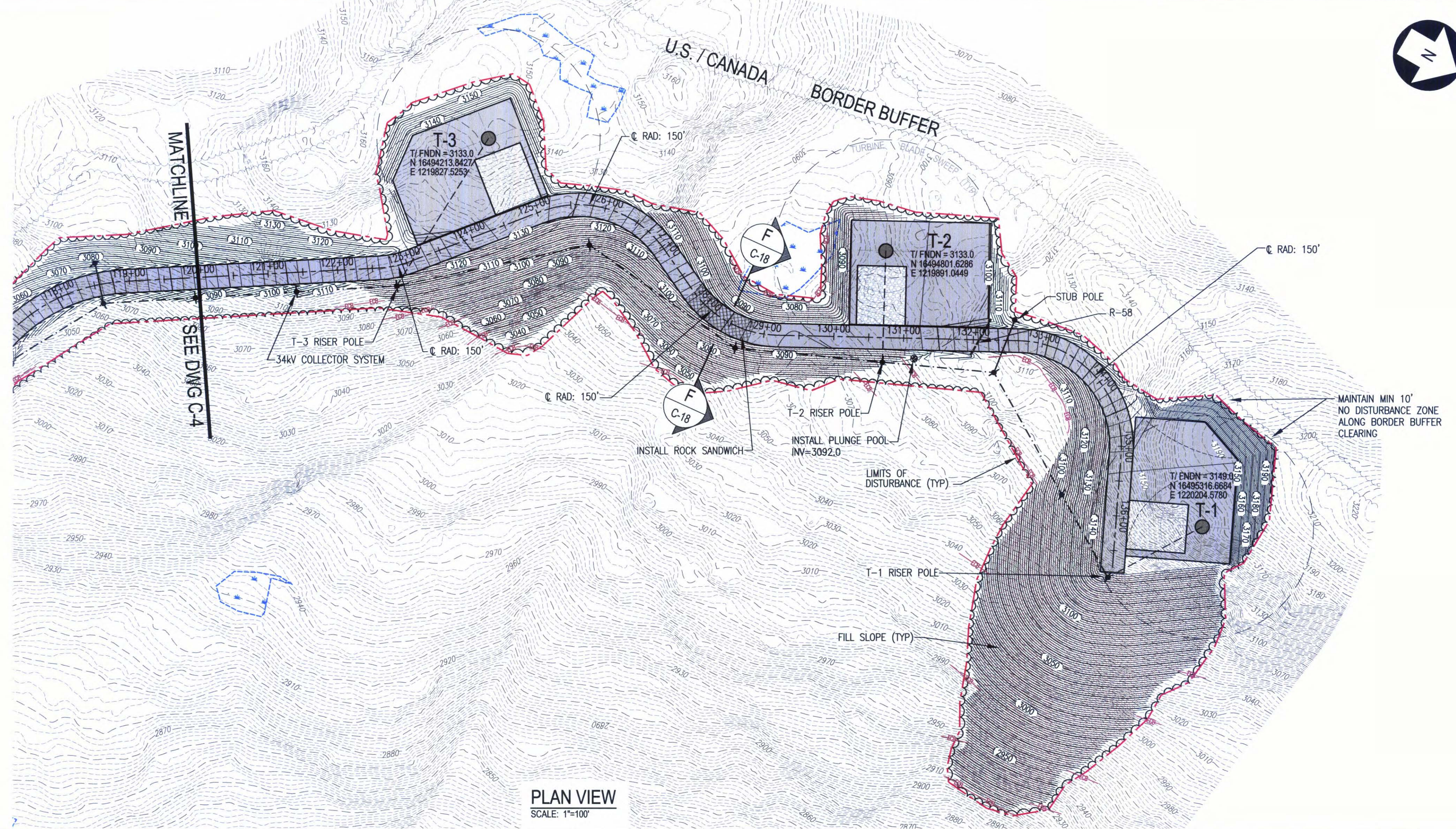
CLIENT APPROVAL	
APPROVED BY	TRC/KAV DESIGNED
COMPANY	TRC/KAV DRAWN
DATE	TRC/DTB CHECKED
	APPROVED
	REVIEWED

PLAN & PROFILE: RIDGE ROAD
 STA 90+00 TO 120+00
 TRANSCANADA
 KIBBY EXPANSION WIND POWER PROJECT
 CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

TRC 249 WESTERN AVENUE
 AUGUSTA, ME 04330
 PROJECT NO: 170019
 DATE: 10-8-09

C-4

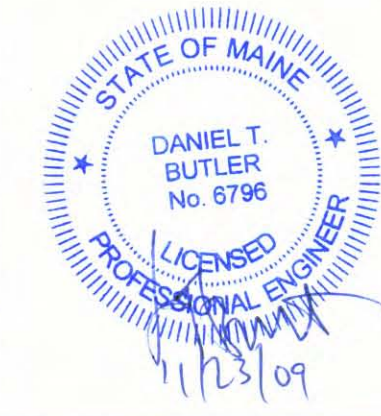
REV. A



PROFILE: STA 120+00 TO 136+35
SCALE: HORIZ: 1"=100'
VERT: 1"=50'

- NOTES:**
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



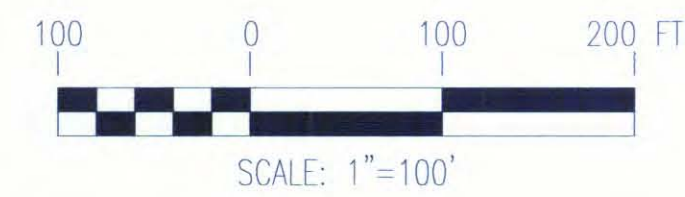
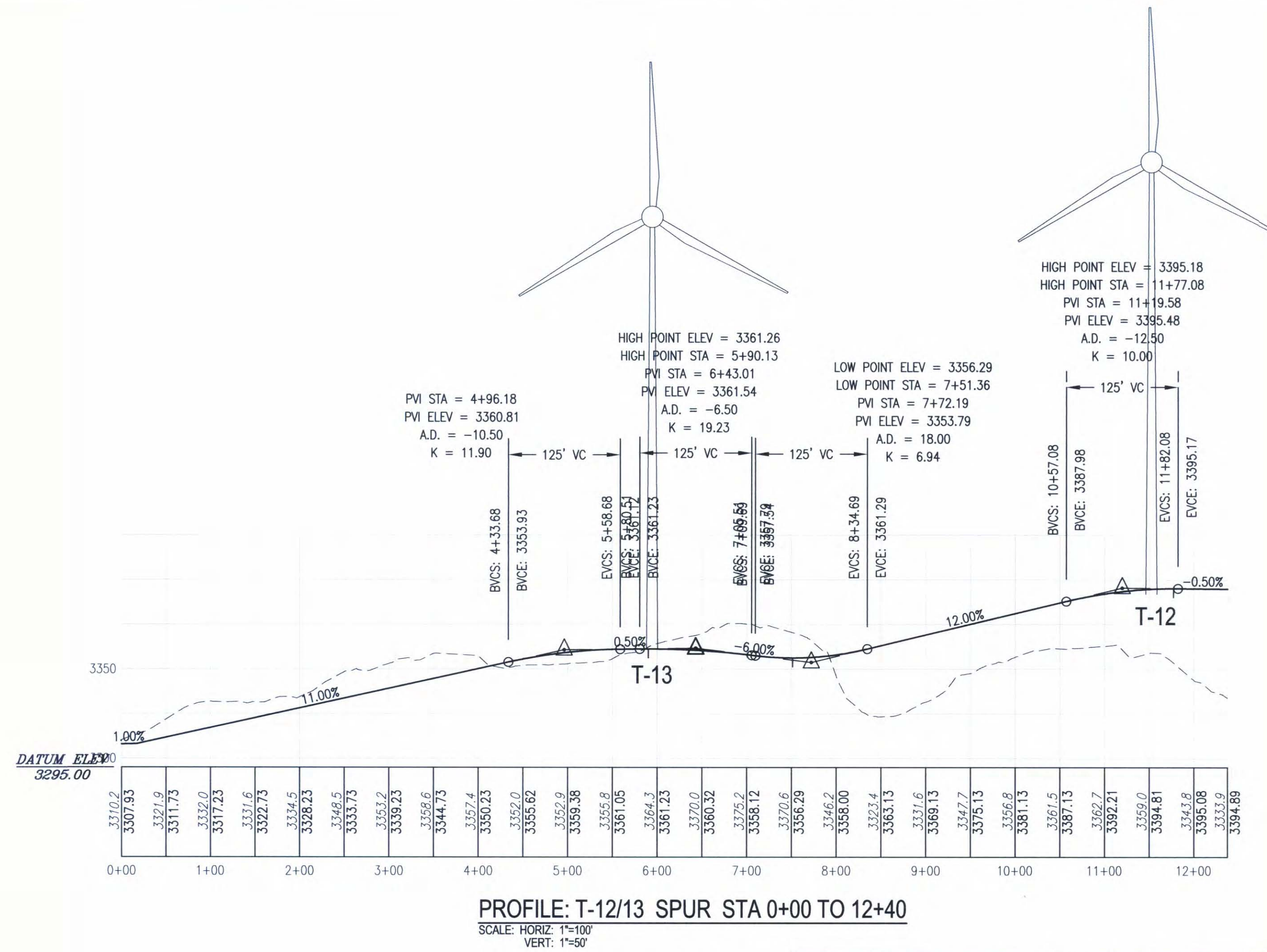
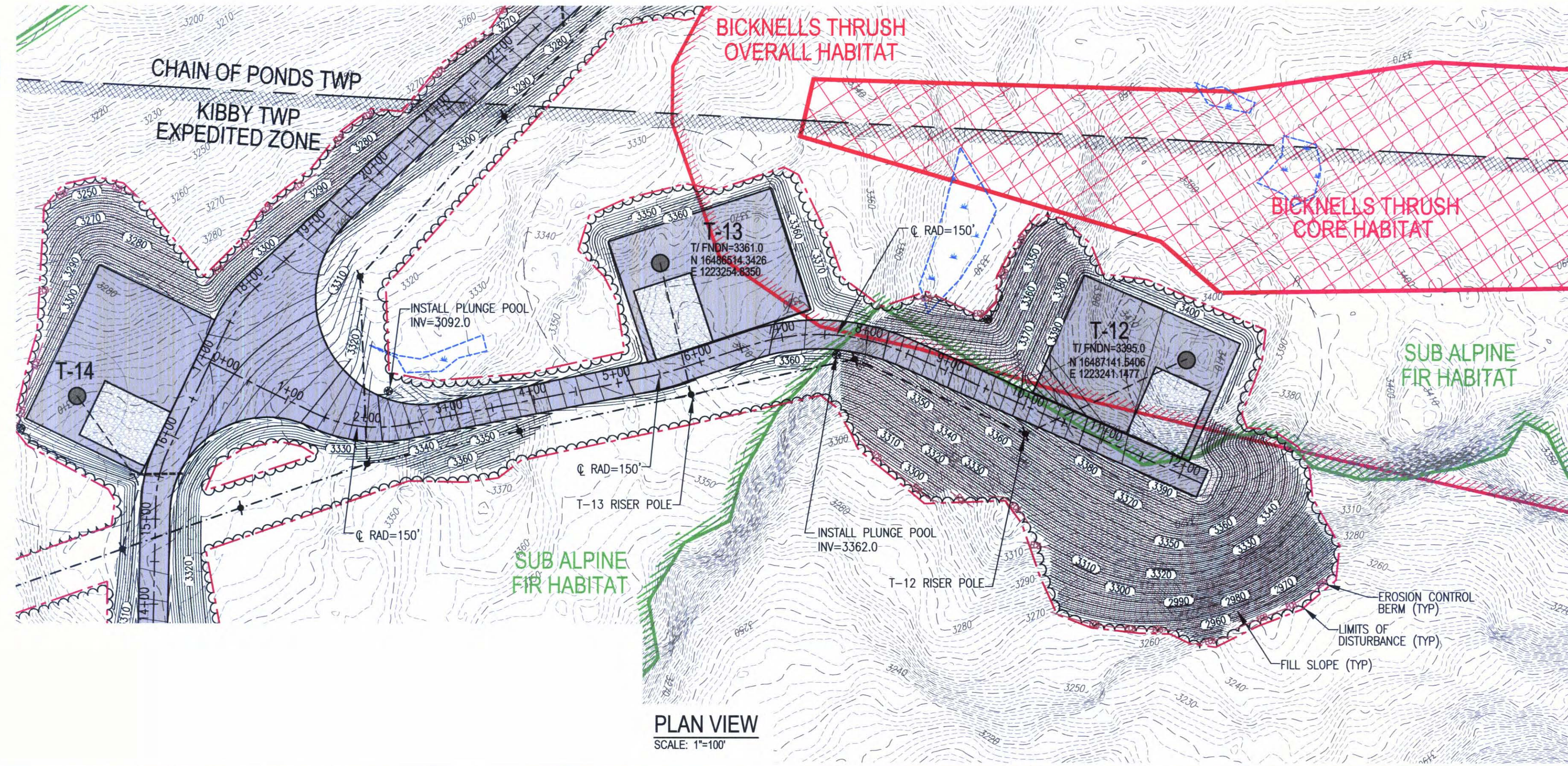
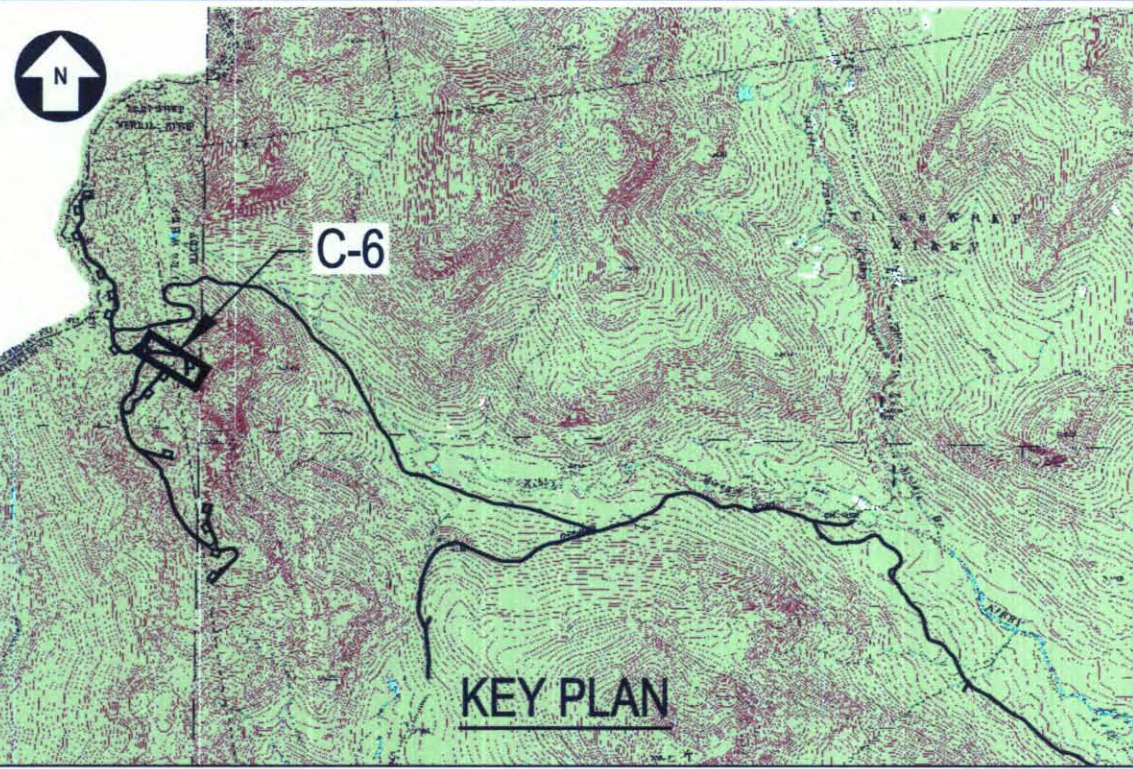
CLIENT APPROVAL	TRC/KAV DESIGNED
APPROVED BY	TRC/KAV DRAWN
COMPANY	TRC/DTB CHECKED
DATE	APPROVED
	REVIEWED

PLAN & PROFILE: RIDGE ROAD
STA 120+00 TO 136+35
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 170019
DATE: 10-8-09

C-5

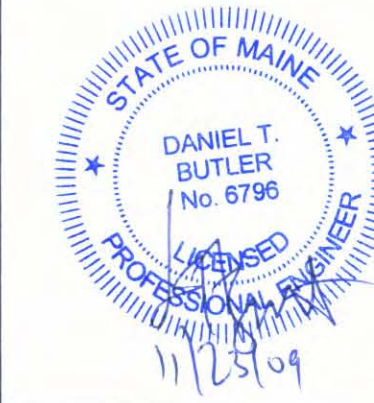
REV. A



NOTES:

- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



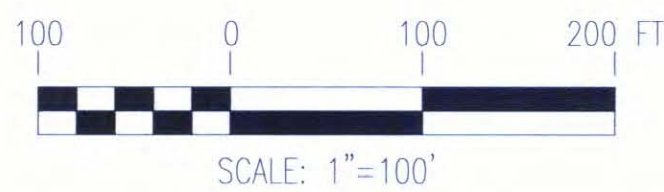
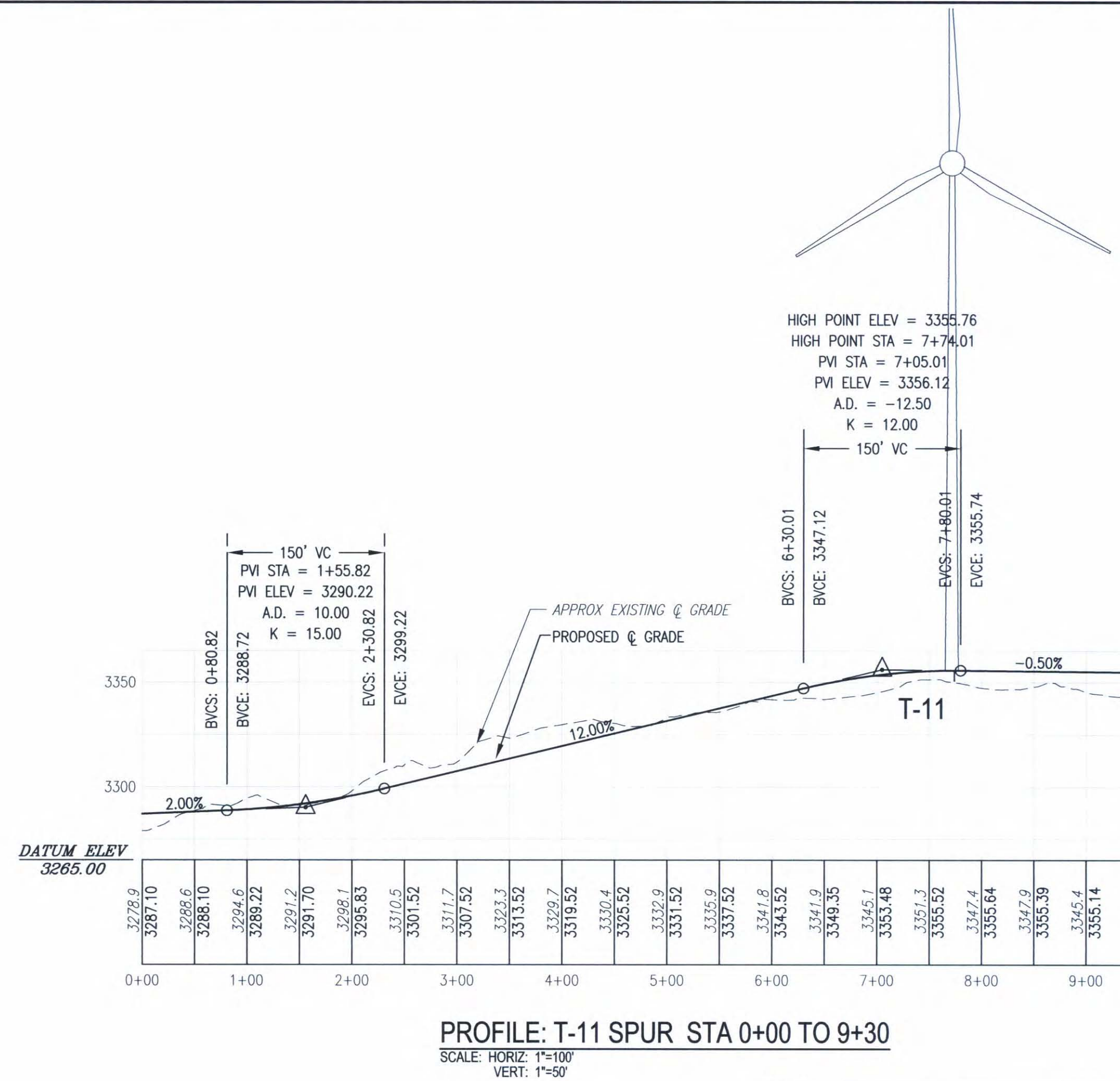
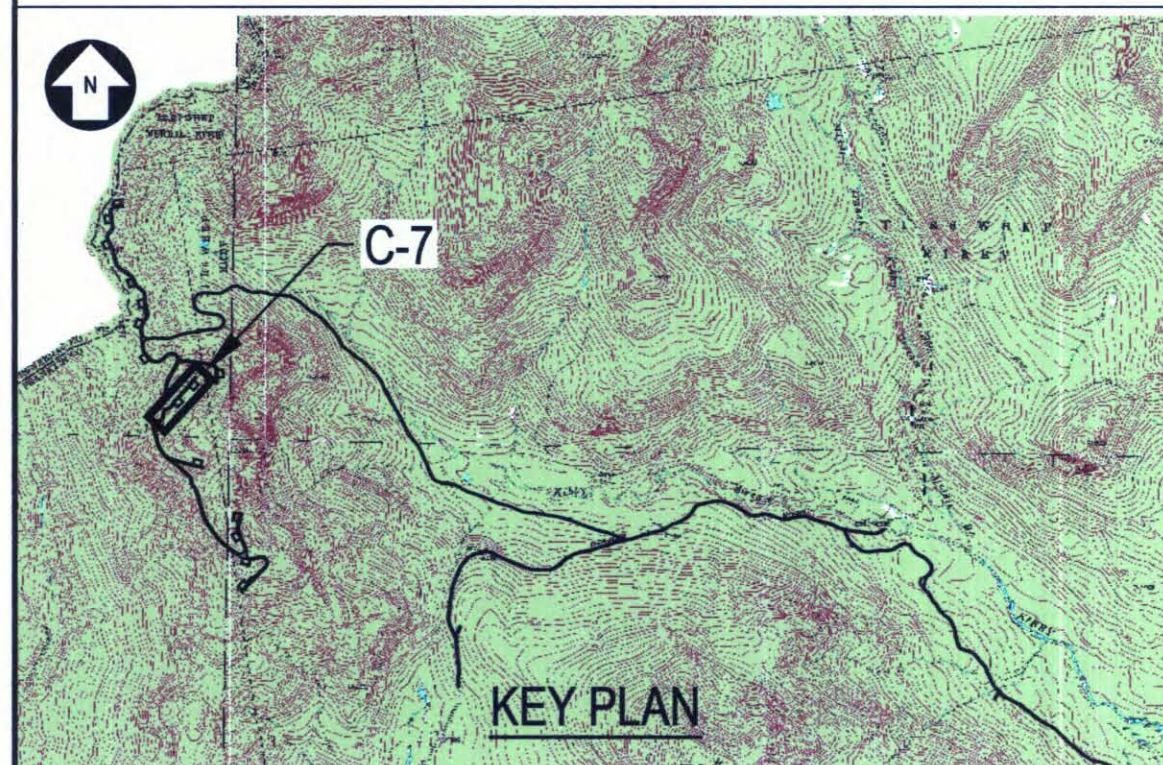
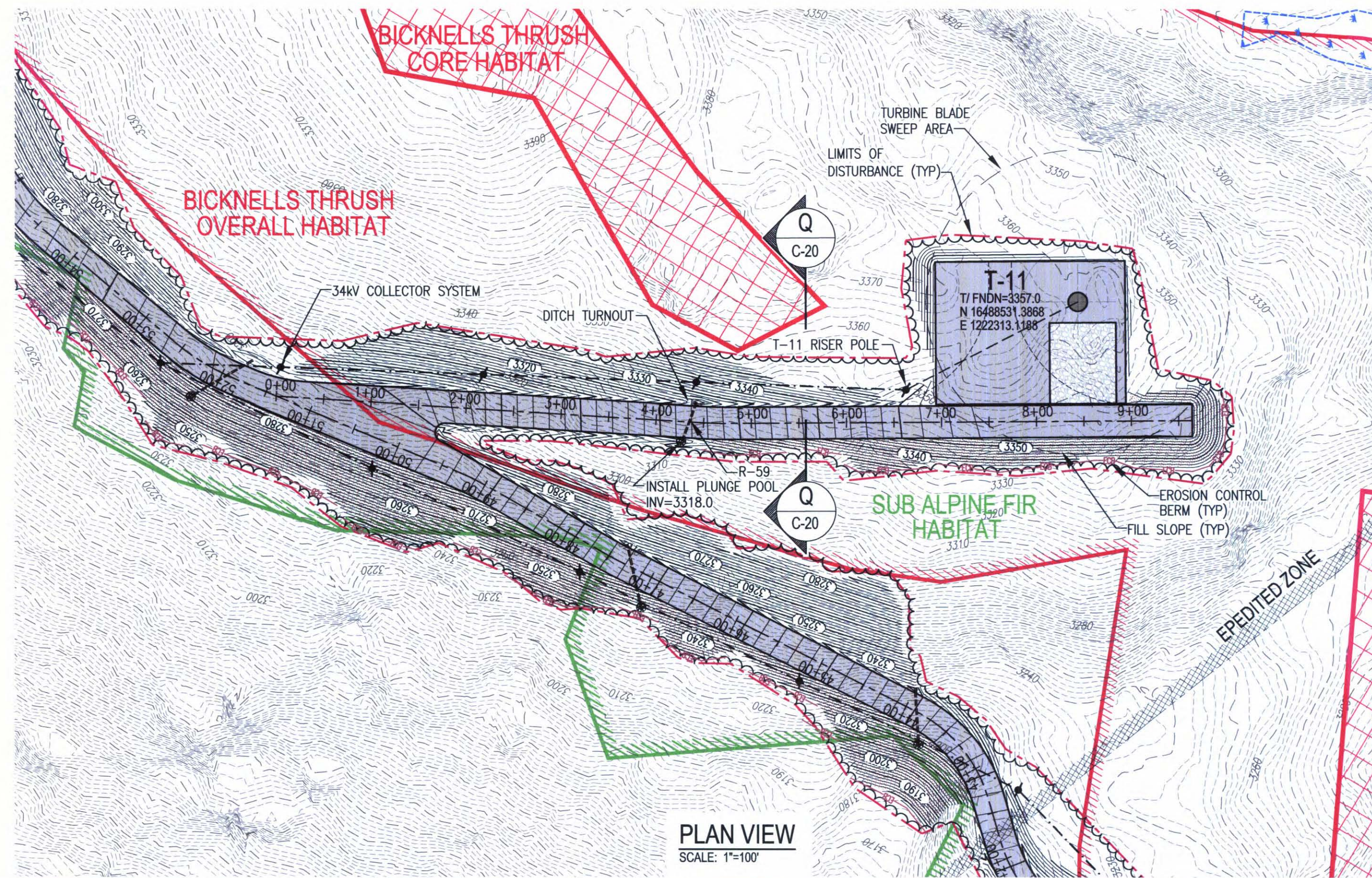
CLIENT APPROVAL	TRC/KAV DESIGNED
	TRC/KAV DRAWN
APPROVED BY	TRC/DTB CHECKED
COMPANY	APPROVED
DATE	REVIEWED

PLAN & PROFILE: T-12/13 SPUR ROAD
STA 0+00 TO 12+40
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

SCALE: AS NOTED DATE: 10-8-09

C-6

REV. A



- NOTES:**
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



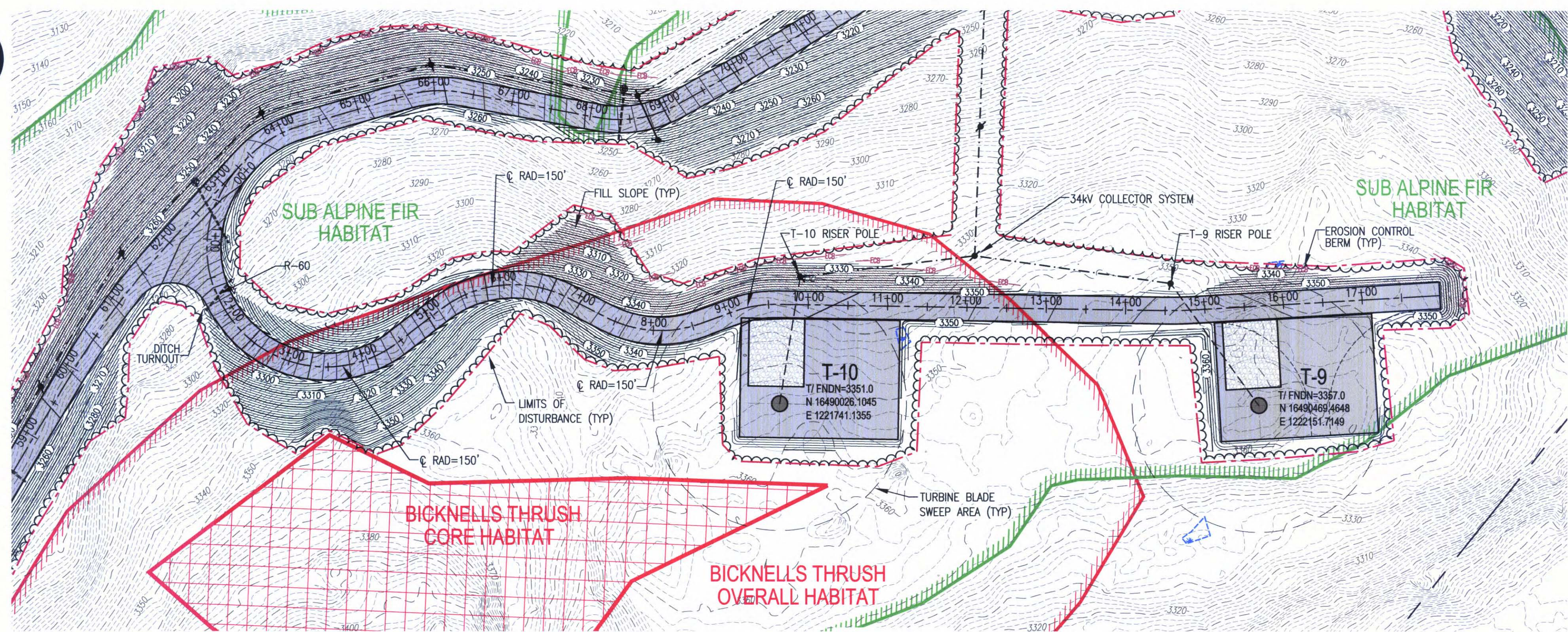
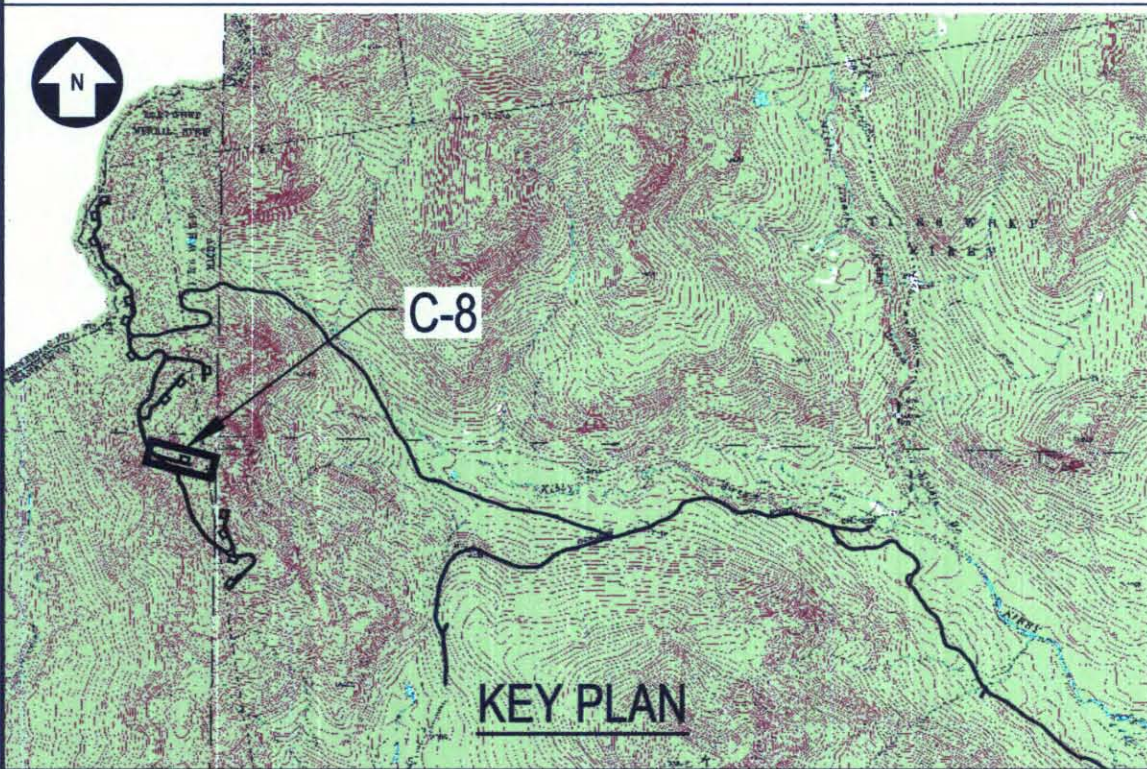
CLIENT APPROVAL	
APPROVED BY	TRC/KAV DESIGNED
COMPANY	TRC/KAV DRAWN
DATE	TRC/DTB CHECKED
	APPROVED
	REVIEWED

PLAN & PROFILE: T-11 SPUR ROAD
STA 0+00 TO 9+30
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

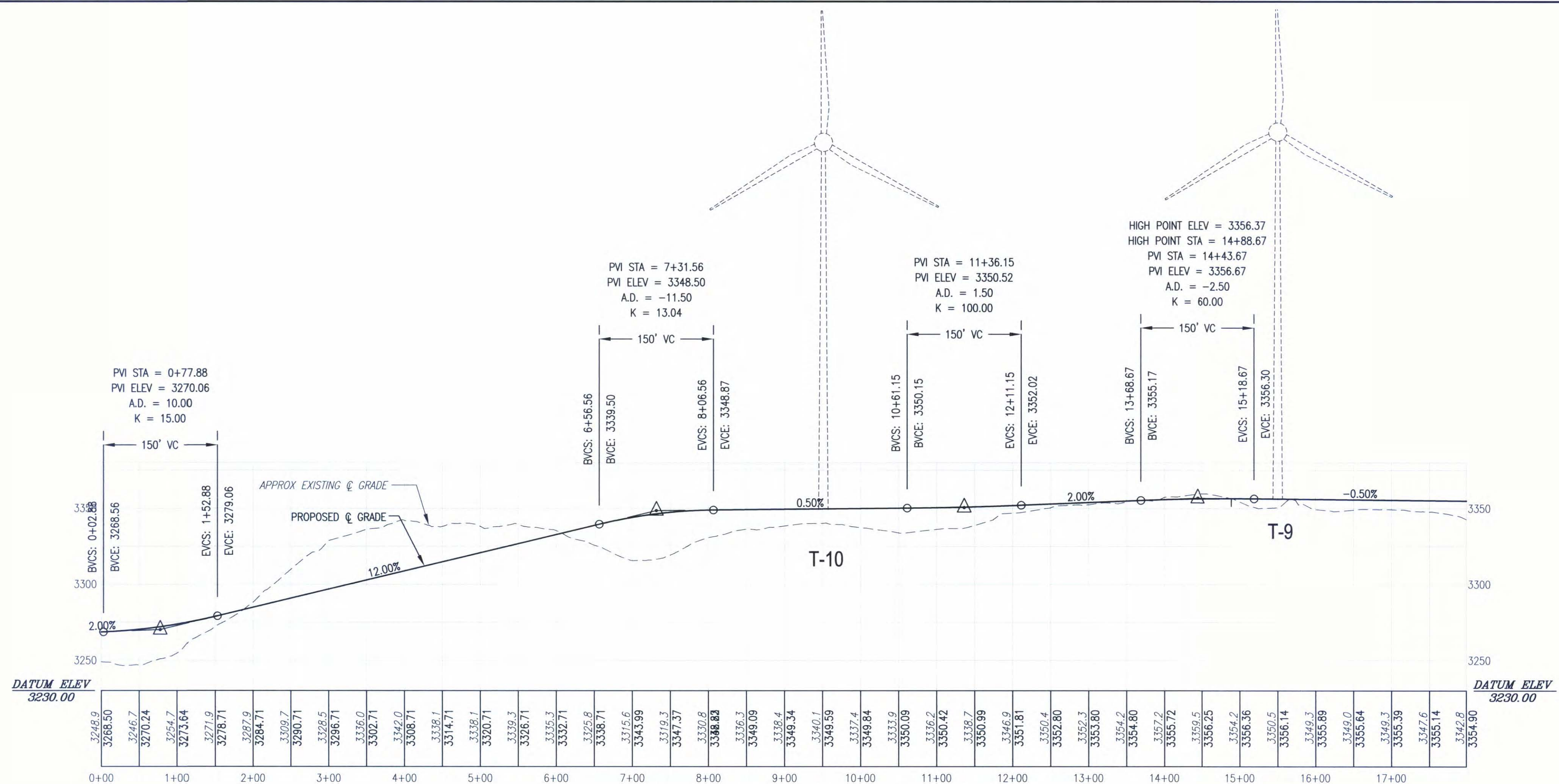
249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 170019
SCALE: AS NOTED DATE: 10-8-09

C-7

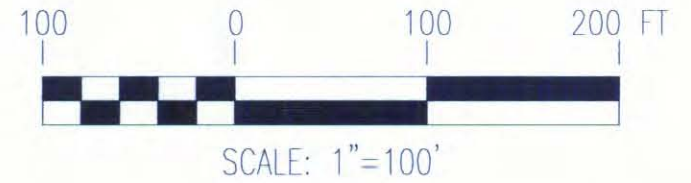
REV. A



PLAN VIEW
SCALE: 1"=100'

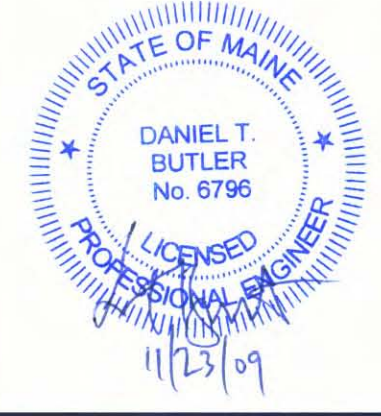


PROFILE: T-9/10 SPUR STA 0+00 TO 17+99
SCALE: HORIZ: 1"=100'
VERT: 1"=50'



- NOTES:
- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
 - SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



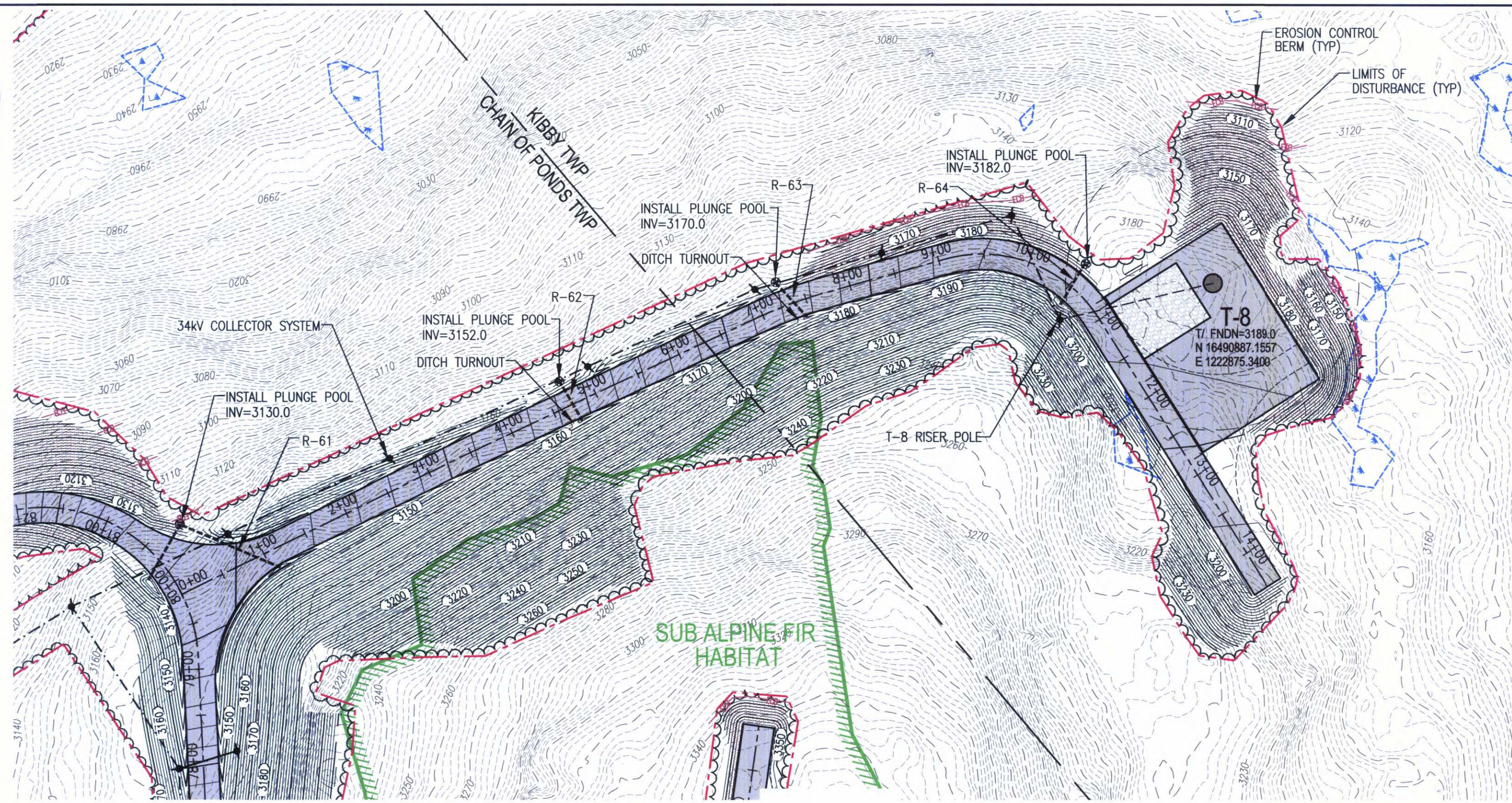
CLIENT APPROVAL	TRC/KAV DESIGNED
	TRC/KAV DRAWN
APPROVED BY	TRC/DTB CHECKED
COMPANY	APPROVED
DATE	REVIEWED

PLAN & PROFILE: T-9/10 SPUR ROAD
STA 0+00 TO 17+99
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

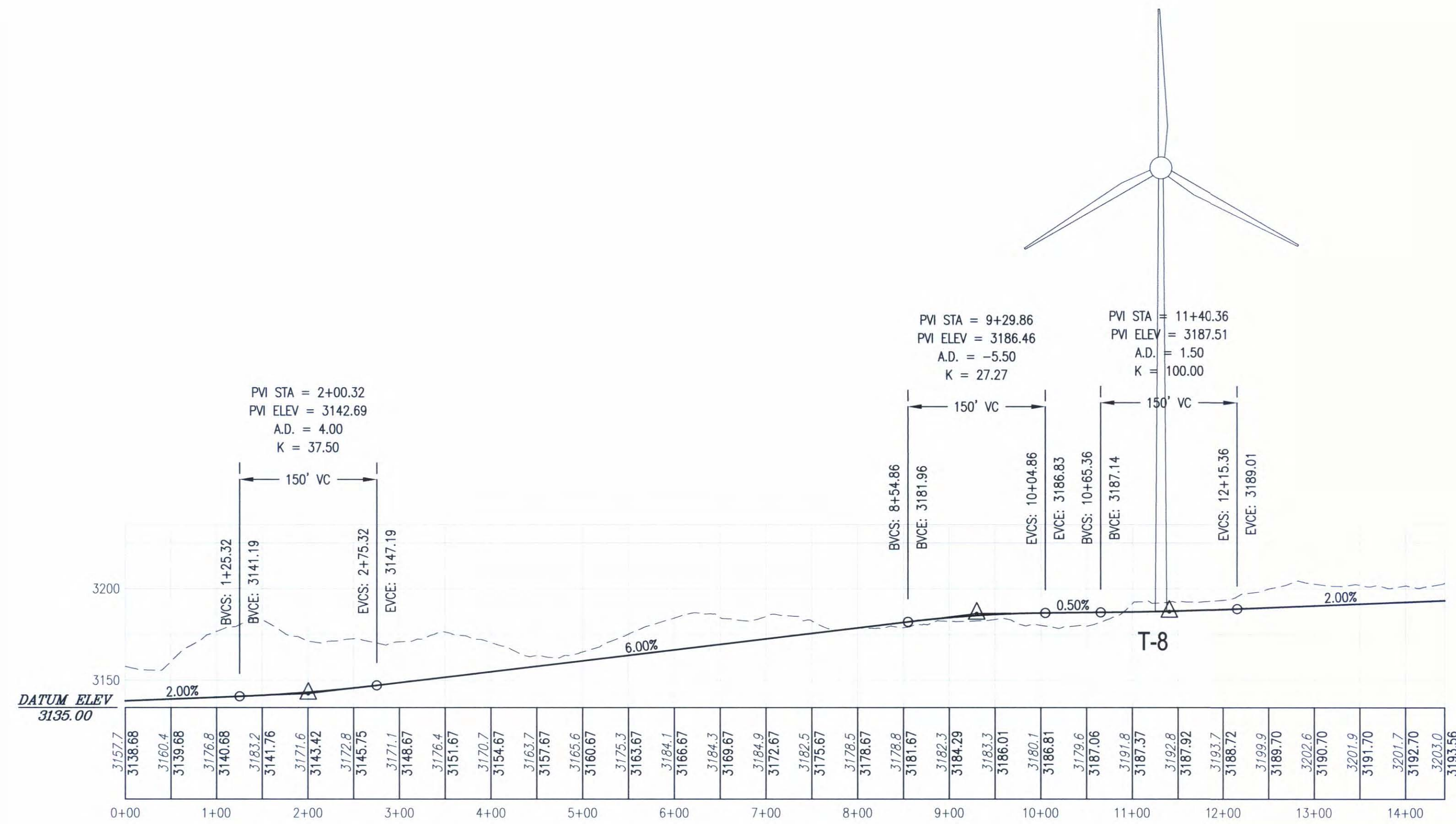
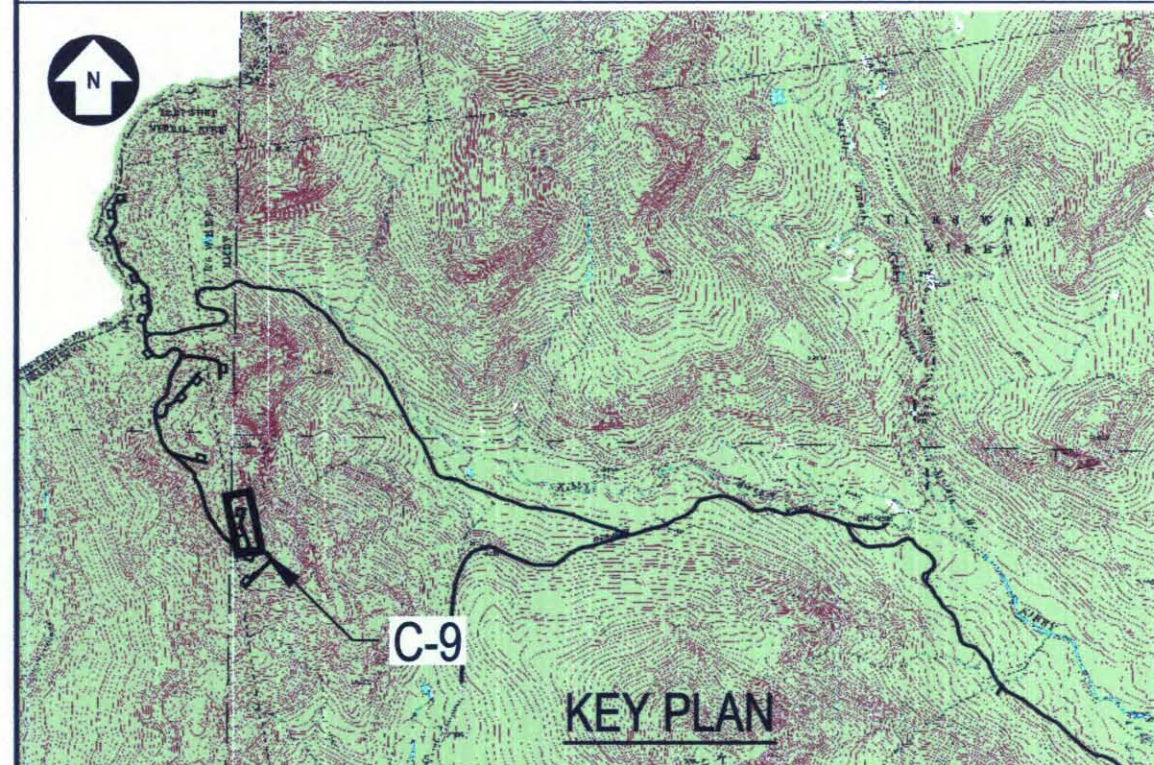
SCALE: AS NOTED DATE: 10-8-09

C-8

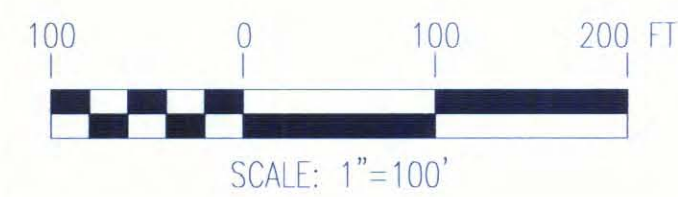
REV. A



PLAN VIEW
SCALE: 1"=100'



PROFILE: T-8 SPUR STA 0+00 TO 14+20
SCALE: HORIZ: 1"=100'
VERT: 1"=50'



NOTES:

- SEE DRAWING G-2 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- SEE DRAWING G-3 FOR OVERALL PROJECT MAP AND OVERALL PROJECT DRAWING INDEX.

NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	ISSUED FOR PERMITTING	11/18/09	KAV	DTB	DTB	6796



CLIENT APPROVAL		TRC/KAV DESIGNED		TRC/KAV DRAWN		TRC/DTB CHECKED		APPROVED		REVIEWED		DATE	
APPROVED BY		APPROVED BY		APPROVED BY		APPROVED BY		APPROVED BY		APPROVED BY		APPROVED BY	
COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		COMPANY	
DATE		DATE		DATE		DATE		DATE		DATE		DATE	

PLAN & PROFILE: T-8 SPUR ROAD
STA 0+00 TO 14+20
TRANSCANADA
KIBBY EXPANSION WIND POWER PROJECT
CHAIN OF PONDS & KIBBY TOWNSHIPS MAINE

249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 170019
DATE: 10-8-09

C-9

SCALE: AS NOTED

REV. A