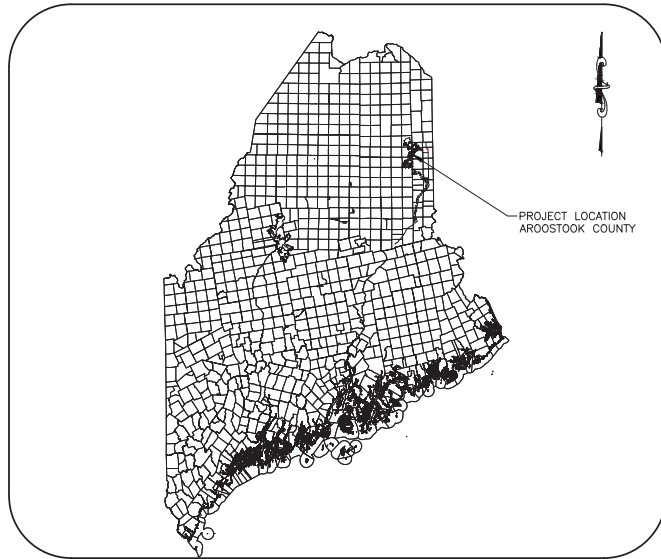
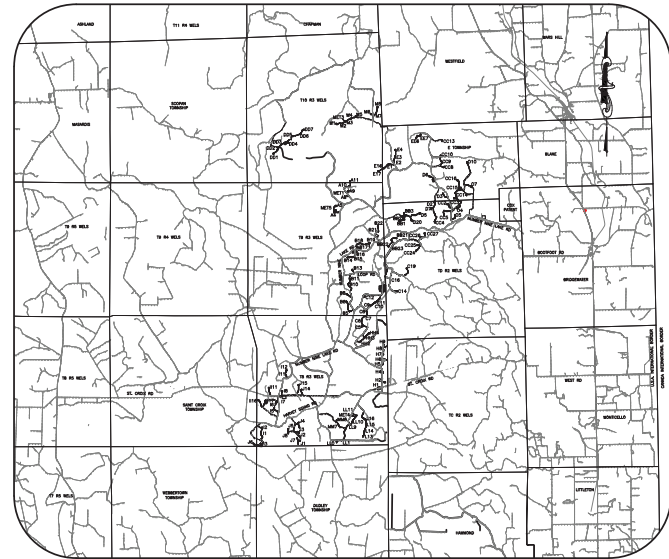


NUMBER NINE WIND FARM PRIVATE LAND IMPROVEMENTS PRELIMINARY PLAN SET AROOSTOOK COUNTY, MAINE



MAINE STATE MAP
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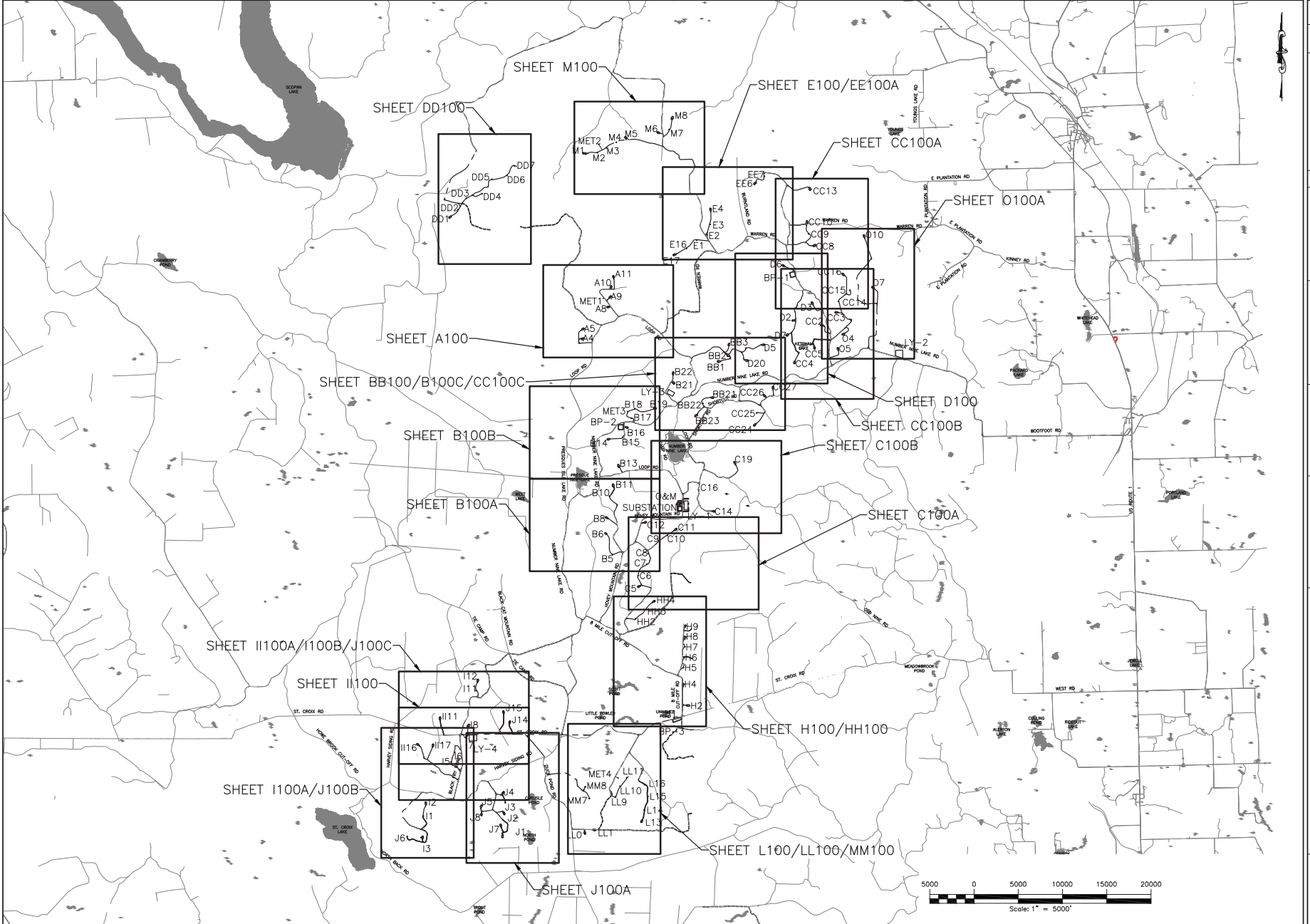
LOCATION MAP
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USER: Steven J. Marlot



PROJECT: NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION	DRAWING NO: CO-1	 PROJECT: NUMBER NINE WIND FARM	 PROJECT MANAGER: S. MELLOTT EXAMINER: SMBA AS SHOWN	SHEET NO: JULY 2015	CONTRACT NO. 14-0009 PROJECT MANAGER: S. MELLOTT EXAMINER: SMBA AS SHOWN	COPYRIGHT © 2014 PERIN ASSOCIATES P.L.L.C., P.C. THIS DRAWING IS THE PROPERTY OF PERIN ASSOCIATES P.L.L.C., P.C. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PERIN ASSOCIATES P.L.L.C., P.C.	REV	DATE	BY

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 USER: Steven Marlot



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PROJECT NO.	140009
PROJECT MANAGER	S. MELLOTT
EXAMINER	SMBA
SCALE	AS SHOWN
SHEET NO.	IND-1
DATE	JULY 2015

DESIGNER	PROFESSIONAL ENGINEER
CHECKER	REGISTERED PROFESSIONAL ENGINEER
DRAWING NO.	IND-1
PROJECT NAME	NUMBER NINE WIND FARM
LOCATION	AROOSTOOK COUNTY, MAINE
STATUS	PRELIMINARY PLANS NOT FOR CONSTRUCTION
TITLE	ACCESS ROAD AND TURBINE STRING INDEX PLAN
PROJECT NO.	140009
SHEET NO.	IND-1
DATE	JULY 2015



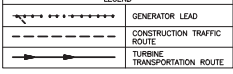
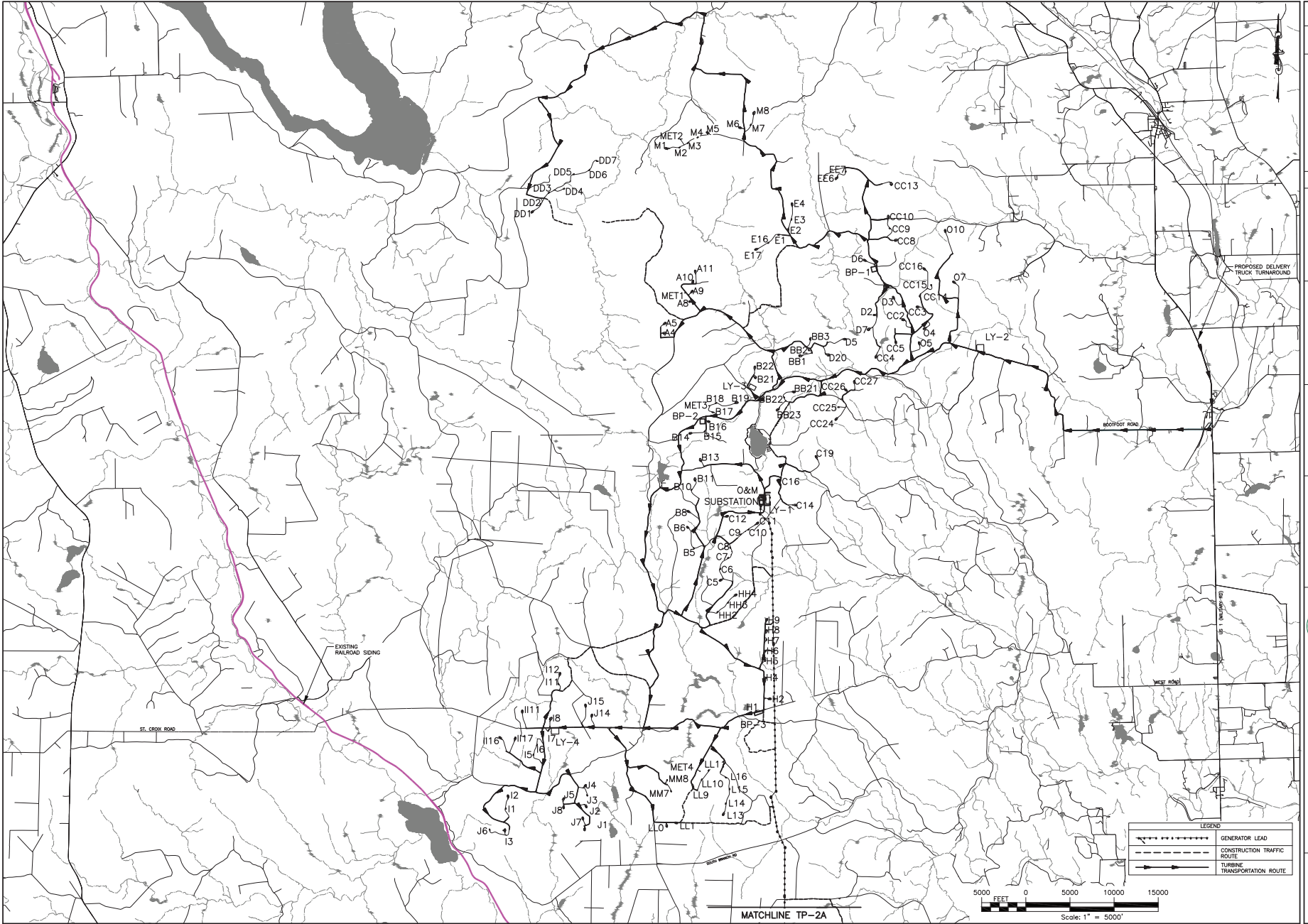
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 AROOSTOOK COUNTY, MAINE
 PRELIMINARY PLANS NOT FOR CONSTRUCTION

TITLE: ACCESS ROAD AND TURBINE STRING INDEX PLAN

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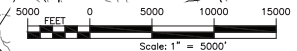
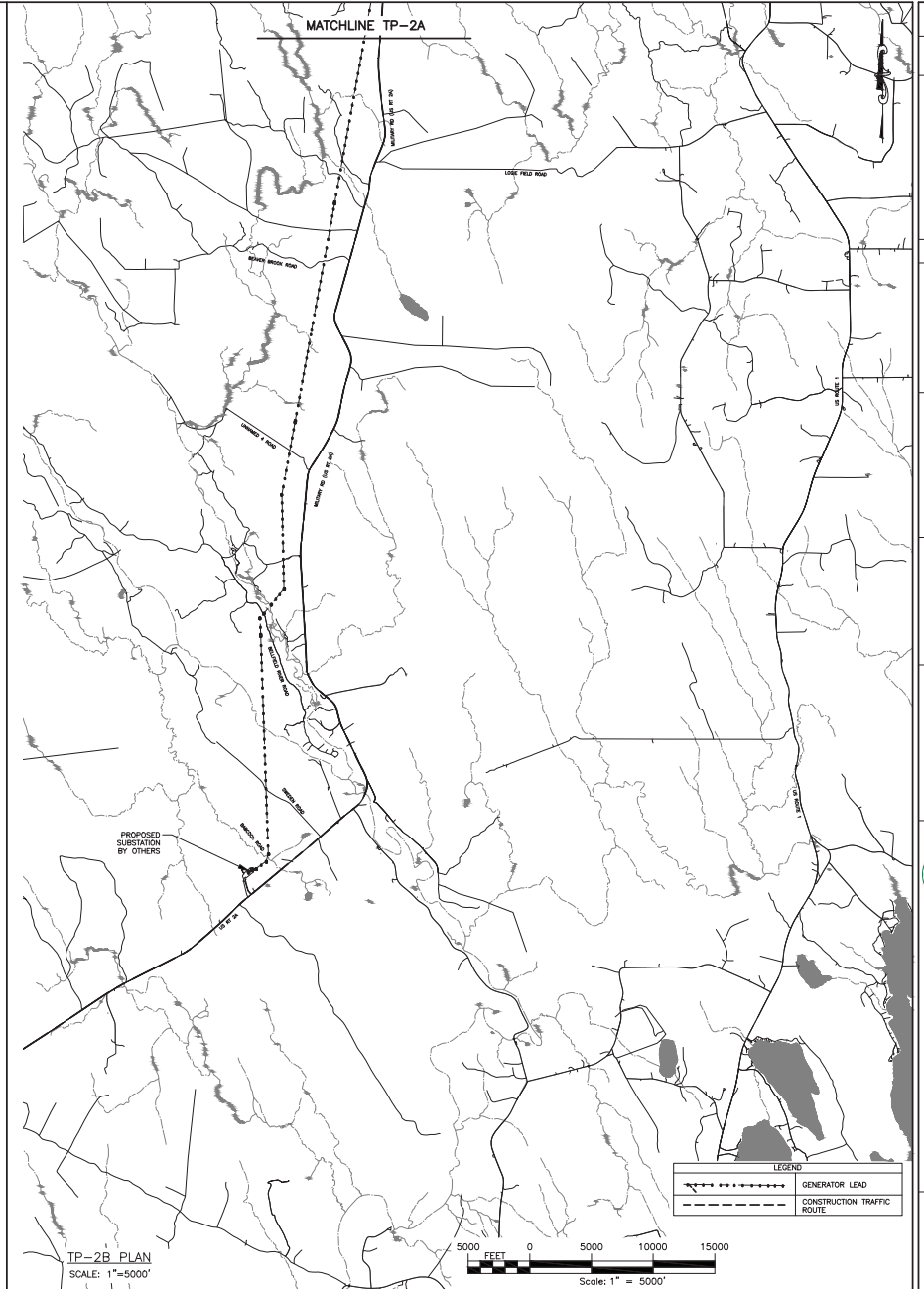
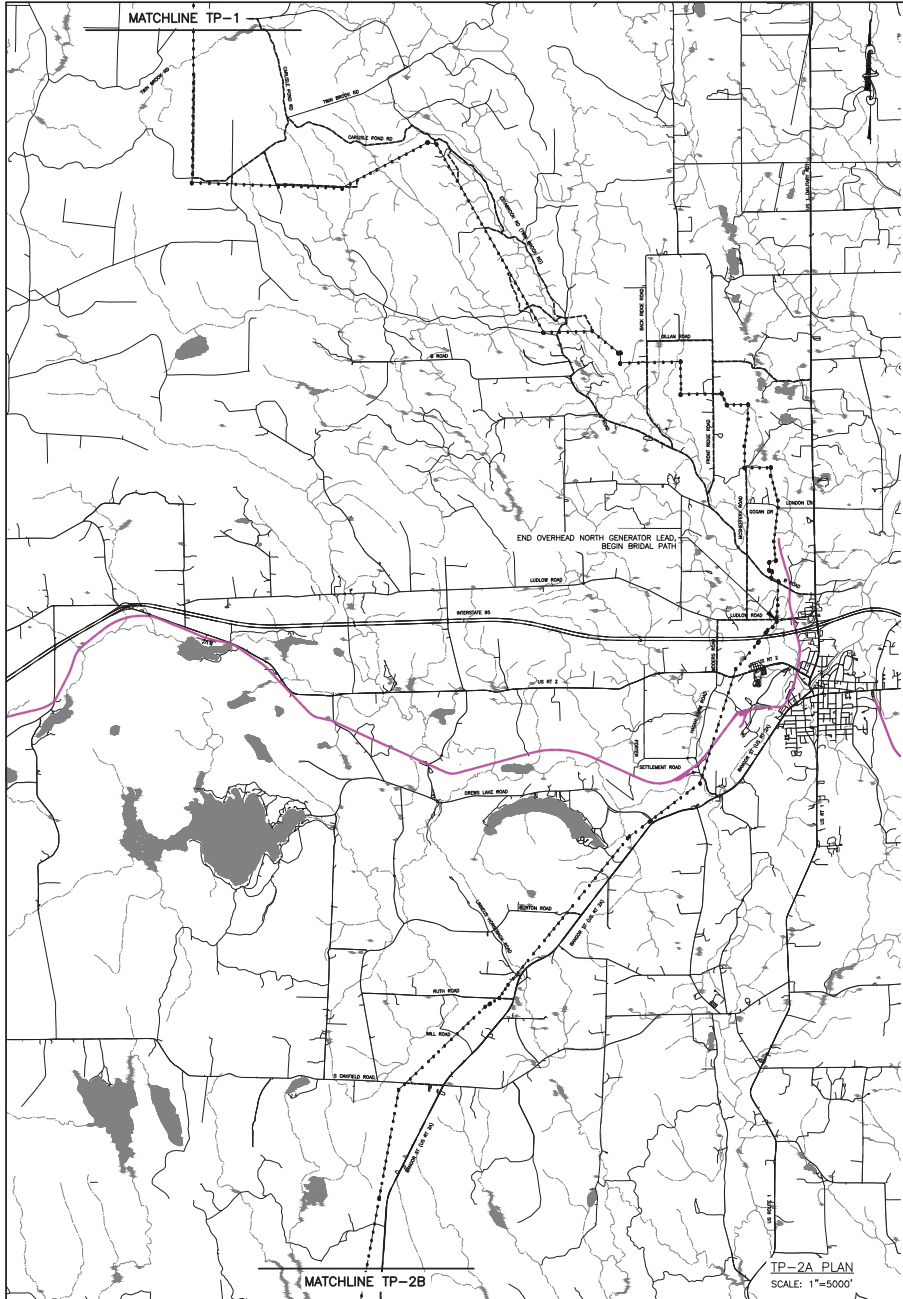
SHEET 3 OF 338

FILE NAME: I:\Projects\140009\Num_Nine_Mid_Form_LSA_V09(CAD)\140009_transport_plan_TP-1.dwg
 DATE: 7/21/15 AM
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PROJECT: NUMBER NINE WIND FARM ARCOOCH COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION		DRAWING NO. TP-1																																	
TITLE OF DRAWING: TRANSPORTATION ROUTE PLAN 1		SHEET 4 OF 338																																	
 FISHKIP CONSULTANTS 100 Park Street, Suite 200 Portland, Maine 04101 www.fishkip.com		PROJECT NUMBER: 140009 PROJECT MANAGER: S. MELLOTT DRAWN BY: SMBA CHECKED BY: AS SHOWN DATE: JULY 2015																																	
COORDINATE SYSTEM: NAD 83 PROJECTION: UTM UNIT: METERS ZONE: 18N DATUM: NAD 83 ELLIPSOID: GRS 1980 SEMI-MAJOR AXIS: 6378137.0 FLATTENING: 1/298.257222101		REVISIONS: <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	BY	1				2				3				4				5				6				7			
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 DATE PLOTTED: 7/27/16 AM
 USER: Steven Merrill



LEGEND

	GENERATOR LEAD
	CONSTRUCTION TRAFFIC ROUTE

PROJECT: NUMBER NINE WIND FARM ARCOOCHUCK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION	 NUMBER NINE WIND FARM	 Pinnacle Engineering 1000 Park Road, Suite 100 Portland, ME 04106 www.pinnacleeng.com	ARCHITECT: 140009	CONTRACT NO. IN U.S.A. P.C. PERRIN ASSOCIATES P.L.L.C.	7 6 5 4 3 2 1
			DESIGNER: DPBA	PROJECT MANAGER: S. MELLOTT	EXAMINER: DPBA
TITLE OF DRAWING: TRANSPORTATION ROUTE PLAN 2			AS SHOWN		
DRAWING NO. TP-2			SHEET 5 OF 338		

GENERAL NOTES:

1. PROJECT COORDINATES ARE IN STATE PLANE MAINE EAST.
 2. PLANNING FEATURES, ORTHOPHOTOS AND ELEVATION DATA WERE PREPARED BY MAGNOLIA RIVER RESTORATION, INC. FROM AERIAL PHOTO DATA GATHERED IN 2008 AND 2014. THE 2014 SURVEY DATA INCLUDES AREAS AROUND THE DO AND M TURBINES AND THE GENERATOR LEAD AND BRIDAL PATH CORRIDORS. CONTRACTOR SHALL VERIFY ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS.
 3. SURVEYED BOUNDARY LINES FOR PARCELS AND INTERESTS ARE PROVIDED BY JAMES W. SEWALL COMPANY. ADJACENT PARCEL BOUNDARIES AND RIGHT OF WAY ARE ASSUMED AND APPROXIMATE AS PROVIDED BY THE STATE OF MAINE GEOGRAPHIC INFORMATION SYSTEM (GIS) FILES.
 4. EXISTING ROAD, STREAM, AND SOILS CLASSIFICATION NAMES WERE OBTAINED FROM THE STATE OF MAINE GIS DATA.
 5. THE PROJECT AREA IS IN AN ACTIVE TIMBER HARVESTING OPERATION. THE ELEVATIONS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED GUIDANCE AND SHOULD BE ADJUSTED TO FIT ACTUAL FIELD CONDITIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL USE ADJACENT WELLS ESTABLISHING CONSTRUCTION GRADES AND ELEVATIONS.
 6. MATERIALS USED SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION (MOT) "STANDARD SPECIFICATIONS".
 7. DISTURBANCE LIMITS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL STATE THE LIMITS (OR PLANNED EDGE OF WORK AREA IF CONTRACTOR DOES NOT INTEND TO USE THE ENTIRE PROPOSED DISTURBED AREA) PRIOR TO CONSTRUCTION FOR APPROVAL BY OWNER. STRIKES ARE TO BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AND THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITY INCLUDING TRAVELING BETWEEN TURBINE SITES AND CONSTRUCTION LOCATIONS WITHIN THE BOUNDS OF THESE STRIKES. ALL STRIKES TO BE REMOVED BY CONTRACTOR AT THE END OF CONSTRUCTION.
 8. REFER TO THE ELECTRICAL, FOUNDATION, AND BUILDING PLANS FOR SPECIFIC DETAILS. ANY CONFLICTS BETWEEN PLAN SETS SHOULD BE RESOLVED BY THE OWNER.
- EROSION AND SEDIMENT CONTROL NOTES:**
1. THIS PROJECT IS SUBJECT TO THE MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) GENERAL PERMIT - CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION SHALL COMPLY TO THE STORMWATER BEST MANAGEMENT PRACTICES MANUAL.
 2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. UPON COMPLETION OF THE PROJECT, ALL MATERIALS USED FOR TEMPORARY EROSION CONTROL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
 3. CONTRACTOR SHALL STAGE CONSTRUCTION EFFORTS SUCH THAT THE LEAST AMOUNT OF EXPOSED DISTURBED SOIL OCCURS AT A GIVEN TIME, THEREBY MINIMIZING THE POTENTIAL FOR EROSION.
 4. IF THE SITE OR PORTION OF THE SITE IS PLANNED TO BE IDLE FOR MORE THAN 30 DAYS, THEN MULCHING OR VEGETATIVE STABILIZATION MUST BE ACCOMPLISHED WITHIN SEVEN DAYS.
 5. EROSION CONTROL, MIX BERMS SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE. ADDITIONAL MEASURES WILL BE INSTALLED AS CONDITIONS WARRANT.
 6. AFTER TURBINE CONSTRUCTION, SLOPE BREAKERS AND/OR WATER BARS ARE TO BE PLACED ALONG NEW ROADS WITH SLOPES GREATER THAN 10%.
 7. ALL ACCESS ROAD DITCHES SHALL BE VEGETATED AND INCLUDE STONE CHECK DAMS AS NEEDED.

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR STING TURNAROUNDS AND CRANE BRUIE AREAS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE.
2. EXISTING ROADS NOT BEING WIDENED SHALL BE MAINTAINED AT 16-FOOT MINIMUM WIDTH AND 1% MINIMUM CROSS SLOPE. TREE BRANCHES MAY NEED TO BE TRIMMED TO PROVIDE ADEQUATE VERTICAL CLEARANCE DURING TURBINE COMPONENT DELIVERY.
3. DEWATERING OPERATIONS ARE EXPECTED THROUGHOUT CONSTRUCTION AND SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILS. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO OWNER FOR APPROVAL AND RECEIVE THIS APPROVAL PRIOR TO ANY DEWATERING OPERATIONS.
4. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO DAWN LIGHT HOURS. IMPACT PILE DRIVING AND BLASTING OPERATIONS, IF NEEDED, SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY. CONTRACTOR TO SUBMIT REQUEST TO OWNER FOR APPROVAL FOR ANY WORK OUTSIDE DAYLIGHT HOURS AND RECEIVE THIS APPROVAL PRIOR TO WORKING OUTSIDE OF DAYLIGHT HOURS.
5. ALL DELINEATED STREAM CROSSINGS WILL CREATE TEMPORARY STREAM AND ADJACENT WETLAND IMPACTS. ALL TEMPORARY CULVERTS SHALL BE REMOVED WITHIN FIVE MONTHS OF INSTALLATION. ADJACENT WETLAND AREAS SHALL BE RESTORED TO PRECONSTRUCTION GRADES WITH FIVE MONTHS OF INITIAL DISTURBANCE.
6. CONTRACTOR SHALL INSTALL MARKERS FOR ALL NEW UNDERGROUND ELECTRIC LINE ROAD CROSSINGS IN ACCORDANCE WITH STATE REQUIREMENTS.
7. CONTRACTOR SHALL INSTALL NEW SIGNAGE AT ALL ACCESS ROAD ENTRANCES, CONFORMING TO STATE AND LOCAL EMERGENCY SERVICE REQUIREMENTS.
8. RESIDENTS SHALL BE NOTIFIED OF IMPENDING SERVICE OUTAGES AND NO RESIDENCE SHALL BE WITHOUT SERVICE OVERNIGHT DUE TO CONSTRUCTION ACTIVITIES.
9. A CONCRETE WASH OUT AREA SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AT EACH TURBINE LOCATION.
10. ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS PROVIDED BY THE CONTRACTOR.
11. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FROM TURBINES, ACCESS ROADS, EXCAVATIONS AND STAGING AREAS AROUND THE TURBINE SITES.
12. CONTRACTOR SHALL COORDINATE WITH OWNER'S ENVIRONMENTAL SPECIALIST WHILE WORKING IN ENVIRONMENTALLY SENSITIVE AREAS. THE MAINE DEPARTMENTS OF ENVIRONMENTAL PROTECTION AND INLAND FISHERIES AND WILDLIFE, AND THE US FISH AND WILDLIFE SERVICE SHALL BE CONTACTED IMMEDIATELY IF THREATENED OR ENDANGERED SPECIES ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES THAT COULD ADVERSELY IMPACT THE IDENTIFIED PLANTS OR ANIMALS SHALL BE HALTED UNTIL AN APPROPRIATE COURSE OF ACTION HAS BEEN AGREED UPON.
13. FROM THE CONTROL POINTS AND BENCHMARKS PROVIDED BY THE OWNER'S ENGINEER, THE CONTRACTOR SHALL SUPPLY ALL CONSTRUCTION SURVEYING AND STAKING REQUIRED TO BUILD THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR EXTRACTING STAKING COORDINATES FROM THE CONSTRUCTION DRAWINGS PROVIDED BY THE OWNER'S ENGINEER. ELECTRONIC COPIES OF THE CONSTRUCTION DRAWINGS WILL BE PROVIDED TO THE CONTRACTOR IF REQUESTED. ALL STAKEOUT SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT AND SHALL NOT BLOCK NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RUNAWAY TO POND. ALL DRAINAGE PATTERNS MUST BE CONTINUED TO THE EXISTING PATTERNS. CONTRACTOR CANNOT SHIFT DRAINAGE PATTERNS ONTO OTHER PARCELS. PROTECTED STREAMS WILL BE FLAGGED AND DISTURBANCES SHALL ONLY BE TEMPORARY IN NATURE. ALL ROADSIDE DITCHES WITHIN THE CONSTRUCTION LIMITS ARE TO BE CLEANED, HAVE SILT REMOVED AND BE GRADDED TO DRAIN AS NEEDED.
15. THE CONTRACTOR SHALL KEEP ALL PERSONNEL AND EQUIPMENT ON THE ROADS DESIGNATED FOR USE DURING CONSTRUCTION SHOWN IN THE TRANSPORTATION ROUTE PLAN. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE POSTING OF ANY ROADS AND/OR BRIDGES OVER WHICH THEY MIGHT BE HAULING MATERIALS.
16. WHERE PROPERTY MARKERS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SUPERVISOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ALL OTHER EXISTING ROW MARKERS AND/OR PROPERTY PINS SHALL BE MAINTAINED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH MAINE LAW.
17. ALL OPEN EXCAVATIONS LEFT OVERNIGHT THROUGHOUT THIS PROJECT SHALL BE PROTECTED BY FENCES AND BARRICADES 4 FEET OR TALLER.
18. WHILE BUILDING THE ROADS AND EXCAVATING THE TURBINE FOUNDATIONS EXCESS SOIL WILL RESULT. THE CONTRACTOR SHALL DISPOSE OF THIS EXCESS SOIL IN AN APPROVED MANNER.
19. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY BEFORE ANY CONSTRUCTION WORK HAS BEGUN, OF OBTAINING FROM ALL UTILITIES THE EXACT LOCATION OF ANY UNDERGROUND FACILITIES IN THE AREA OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. WHENEVER A QUESTION ARISES REGARDING THE EXISTENCE/LOCATION OF A BURIED UTILITY, CALL THE TOLL FREE MAINE 811 TELEPHONE NUMBER BEFORE STARTING EXCAVATION.
20. ANY FACILITIES DISTURBED BY THE CONTRACTOR SHALL BE RESTORED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY FOR THE RELOCATION OF ANY FACILITY DESIGNATED ON THE PLANS OR DEEMED NECESSARY TO BE RELOCATED IN ORDER TO COMPLETE CONSTRUCTION OF THE PROJECT.

CONSTRUCTION SPECIFICATIONS:

1. THE FINISHED SURFACE OF CRANE PAD SHALL NOT SLOPE MORE THAN 1% IN ANY DIRECTION. THE CRANE PAD SHALL BE CONSTRUCTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. THE CONTRACTOR SHALL COMPACT AND PROOF ROLL THE SUBGRADE PRIOR TO ANY AGGREGATE MATERIALS BEING PLACED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ANY AREAS WHICH SHOW RUTTING, CRACKING, PUMPING OR ROLLING OF THE COMPACTED SUBGRADE UPON PROOF ROLLING WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL RECOMPACT AND/OR REPLACE WITH GRANULAR SOILS THE SECTION THAT FAILS AND PROOF ROLL AGAIN PRIOR TO ACCEPTANCE.
3. IF IT RAINS BETWEEN THE TIME THE FINISHED CRANE PAD SURFACE IS PROOF ROLLED AND THE TURBINE ERECTION CRANE IS TO BE USED ON THE CRANE PAD, THE CRANE PAD SURFACE SHALL BE PROOF ROLLED AGAIN TO SHOW THAT RAIN HAS NOT WEAKENED IT.
4. GRAVEL SURFACES SHALL CONSIST OF MOOT TYPE D AGGREGATE OR EQUIVALENT AS APPROVED BY OWNER.
5. ALL PERMANENT PIPE CULVERTS SHALL BE MOOT CULVERT PIPES OPTION II IN ACCORDANCE WITH SECTION 603 OF THE MOOT STANDARD SPECIFICATIONS.
6. CULVERT INVERTS SHALL BE DETERMINED DURING INSTALLATION TO PROVIDE POSITIVE FLOW IN THE DIRECTION OF EXISTING SLOPES. CONTRACTOR TO INSTALL AT ADEQUATE DEPTHS AND DAWLIGHT TO DRAIN.
7. TEMPORARY PIPE CULVERT EXTENSION MATERIALS SHALL BE DETERMINED BY THE CONTRACTOR. TEMPORARY CULVERTS SHALL BE CHOSEN BASED ON ANTICIPATED EXPOSURE TO OVERWEIGHT CONSTRUCTION TRAFFIC.
8. CONTRACTOR SHALL FIELD VERIFY THE LENGTHS OF ALL PIPE CULVERTS AND BOX CULVERTS TO BE EXTENDED OR REMOVED AND REPLACED PRIOR TO ORDERING THE PIPE. ON ALL PIPE CULVERTS TO BE EXTENDED, THE CONTRACTOR SHALL REMOVE THE DAMAGED ENDS OF THE EXISTING PIPE CULVERTS PRIOR TO INSTALLING THE NEW EXTENSIONS. WHEN A CONCRETE COLLAR IS USED TO CONNECT A TEMPORARY PIPE TO A PERMANENT PIPE THE COLLAR SHALL BE CUT OFF THE PERMANENT PIPE AND THE PERMANENT PIPE EXTENDED PRIOR TO ATTACHING THE END SECTIONS. METAL END SECTIONS SHALL BE REQUIRED. ALL WORK SHALL CONFORM TO MOOT STANDARDS.
9. UNLESS DIRECTED BY OWNER THAT IMPROVEMENTS ARE TO PERMANENTLY REMAIN, TEMPORARY INTERSECTION WIDENINGS SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION BY THE ENGINEER, BE REMOVED AND THE AREA RESTORED TO ITS ORIGINAL LINES AND GRADES WITH THE UPPER ONE FOOT OF RESTORED GROUND BEING SOIL. THIS RESTORATION SHALL INCLUDE ANY TEMPORARY ENTRANCES CONSTRUCTED AS A RESULT OF THE TEMPORARY INTERSECTION WIDENING.
10. TO MINIMIZE AEROSOL DUST DURING CONSTRUCTION, THE CONTRACTOR SHALL UTILIZE WHATEVER MEANS ARE NECESSARY, INCLUDING, BUT NOT LIMITED TO, THE APPLICATION OF WATER OR CHEMICALS AS FREQUENTLY AS NEEDED.

WORK IN PUBLIC RIGHT-OF-WAY NOTES:

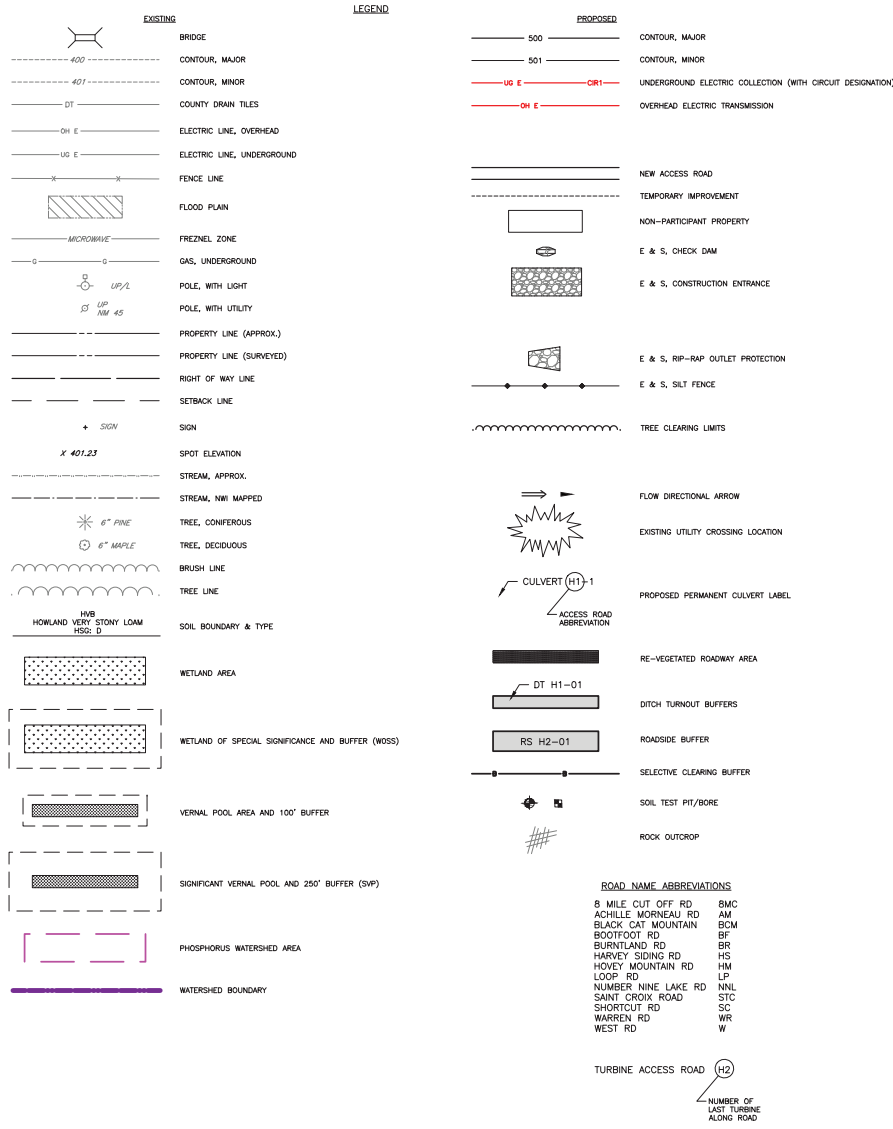
1. THE CONTRACTOR SHALL APPLY FOR AND SECURE PERMITS FROM THE STATE, COUNTY AND TOWNSHIPS AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS THE STATE AND COUNTY HIGHWAYS AND TOWNSHIP ROADS.
2. ALL WORK IN PUBLIC RIGHT-OF-WAYS SHALL CONFORM WITH MAINE DEPARTMENT OF TRANSPORTATION (MOT) "STANDARD SPECIFICATIONS", "STANDARD DETAILS", AND "HIGHWAY DESIGN GUIDE".
3. UNLESS DIRECTED BY OWNER THAT IMPROVEMENTS ARE TO PERMANENTLY REMAIN, TEMPORARY INTERSECTION WIDENINGS SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION BY THE ENGINEER, BE REMOVED AND THE AREA RESTORED TO ITS ORIGINAL LINES AND GRADES WITH THE UPPER ONE FOOT OF RESTORED GROUND BEING SOIL. THIS RESTORATION SHALL INCLUDE ANY TEMPORARY ENTRANCES CONSTRUCTED AS A RESULT OF THE TEMPORARY INTERSECTION WIDENING.
4. AFTER CONSTRUCTION IS SUBSTANTIALLY COMPLETED ON THE PROJECT, THE COUNTY AND TOWNSHIP ROADWAYS SHALL BE CLEANED OF ALL DIRT, RESPAVED, RECOMPACTED AND RESTORED TO PRE-CONSTRUCTION CONDITIONS IN ACCORDANCE WITH ROAD USE AGREEMENT BETWEEN THE COUNTY/TOWNSHIP AND OWNER. THE AGREEMENT IS ON FILE WITH THE OWNER'S ENGINEER AND PROVIDED TO THE CONTRACTOR. ALL WORK PERFORMED ON STATE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE PERMIT ISSUED BY THE MAINE DEPARTMENT OF TRANSPORTATION ON FILE WITH THE OWNER'S ENGINEER AND PROVIDED TO THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN AND PROVIDE AN INDIVIDUAL HIGHWAY PERMIT BOND BEFORE BEGINNING WORK ON STATE RIGHT-OF-WAY.
5. PRIOR TO BEGINNING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S ENGINEER, THE MAINE DEPARTMENT OF TRANSPORTATION, AND THE AROOSTOOK COUNTY PUBLIC WORKS DEPARTMENT A SEQUENCE OF CONSTRUCTION OPERATIONS. NO DEVIATION FROM THE APPROVED SEQUENCE WILL BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE OWNER'S ENGINEER AND NOTIFICATION TO THE SAME ENTITIES.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER AND THE MAINE DEPARTMENT OF TRANSPORTATION OF ANY IMPENDING ROAD CLOSING PRIOR TO BEGINNING WORK AND SHALL NOTIFY THE SAME DEPARTMENTS WHEN THE ROAD IS OPENED. NO ROADS SHALL BE CLOSED WITHOUT THIS PRIOR NOTICE. THE CONTRACTOR SHALL NOTIFY THE ABOVE ENTITIES OF THE PROGRESS OF THE WORK ON A WEEKLY BASIS AND WHEN SIGNIFICANT ITEMS OF WORK ARE TO BE PERFORMED OR WHENEVER CHANGES IN TRAFFIC CONTROL WILL PRECIPITATE CHANGES IN TRAFFIC PATTERNS. ALL WORK AND COMMUNICATION SHALL CONFORM TO THE ROAD USE AGREEMENT BETWEEN THE OWNER AND COUNTY.
7. THE CONTRACTOR SHALL BE REQUIRED TO RELOCATE OR TO REMOVE AND RE-INSTALL ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION. TEMPORARY LOCATIONS OF TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH MAINE MUTCD. CONTRACTOR WILL NOT BE PERMITTED TO DEVIATE FROM THE ALLOWABLE LOCATION, OFFSET, OR HEIGHT OF A REGULATORY OR WARNING SIGN IN A TEMPORARY SITUATION.

LATE FALL - WINTER CONSTRUCTION NOTES:

1. CONSTRUCTION IS ANTICIPATED TO OCCUR BETWEEN SEPTEMBER 15 TO APRIL 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL WINTER EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SECTION 4-3 OF "MAINE EROSION AND SEDIMENTATION CONTROL BMP".
2. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS TO OCCUR DURING THE FOLLOWING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY STORM EVENT.
3. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED MULCH OR EROSION CONTROL MATTING.
4. SNOW PILING SHALL OCCUR WITHIN THE DESIGNATED LIMITS OF DISTURBANCE.
5. DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
6. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED PRIOR TO FROZEN GROUND CONDITIONS.
7. SNOW AND/OR ICE SHALL BE REMOVED TO LESS THAN 1 INCH DEPTH PRIOR TO MULCHING.
8. MULCH SHALL BE APPLIED AT 3 TONS/ACRE AND ANCHORED.
9. THE SITE STABILIZATION SCHEDULE BEFORE WINTER SHALL BE AS FOLLOWS:
SEPTEMBER 15 ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED. ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED. ALL GRASS LINED DITCHES AND CHANNELS WILL BE STABILIZED WITH MULCH OR AN EROSION CONTROL BARRIET.
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-FEET AND MULCHED.
NOVEMBER 15 ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.
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.

DRY-PLAN SUBMISSION NOTES:

1. ADDITIONAL VERNAL POOL AND WETLAND SURVEYS WILL BE COMPLETED FOR AREAS OUTSIDE OF THE CURRENT SURVEY CORRIDORS.
2. STREAM CROSSING DESIGNS SHALL BE COMPLETED ONCE DETAILED TOPOGRAPHIC SURVEY DATA HAS BEEN OBTAINED.
3. PLANS DO NOT INCLUDE DATA FROM FIELD SOIL SURVEYS.
4. AN EXISTING CULVERT SURVEY HAS BEEN CONDUCTED, HOWEVER, NOT ALL EXISTING CULVERTS HAVE BEEN LOCATED ALONG EXISTING ACCESS ROADS TO BE USED DURING CONSTRUCTION. EXISTING CULVERT LOCATIONS WILL BE UPDATED AS ADDITIONAL SURVEY INFORMATION IS PROVIDED.
5. OVERHEAD COLLECTION POLE LOCATIONS ARE NOT SHOWN.
6. OVERHEAD TRANSMISSION LINE DESIGN TO BE COMPLETED BY OTHERS. ASSOCIATED DISTURBANCES ARE NOT INCLUDED IN THESE PLANS.
7. ALTERNATE TURBINES DO NOT INCLUDE COLLECTION LINES AND ASSOCIATED DISTURBANCES.



NO.	DESCRIPTION	DATE	BY
1	SCALE	JUL 2015	AS SHOWN
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3	SCALE	JUL 2015	AS SHOWN
4	SCALE	JUL 2015	AS SHOWN
5	SCALE	JUL 2015	AS SHOWN
6	SCALE	JUL 2015	AS SHOWN
7	SCALE	JUL 2015	AS SHOWN

PREPARED BY: S. MELLOTT
 CHECKED BY: S. MELLOTT
 DRAWN BY: DPBA
 DATE: JUL 2015
 SCALE: AS SHOWN

PROJECT:
 NUMBER NINE WIND FARM
 AROOSTOOK COUNTY, MAINE
 PRELIMINARY PLANS NOT FOR CONSTRUCTION

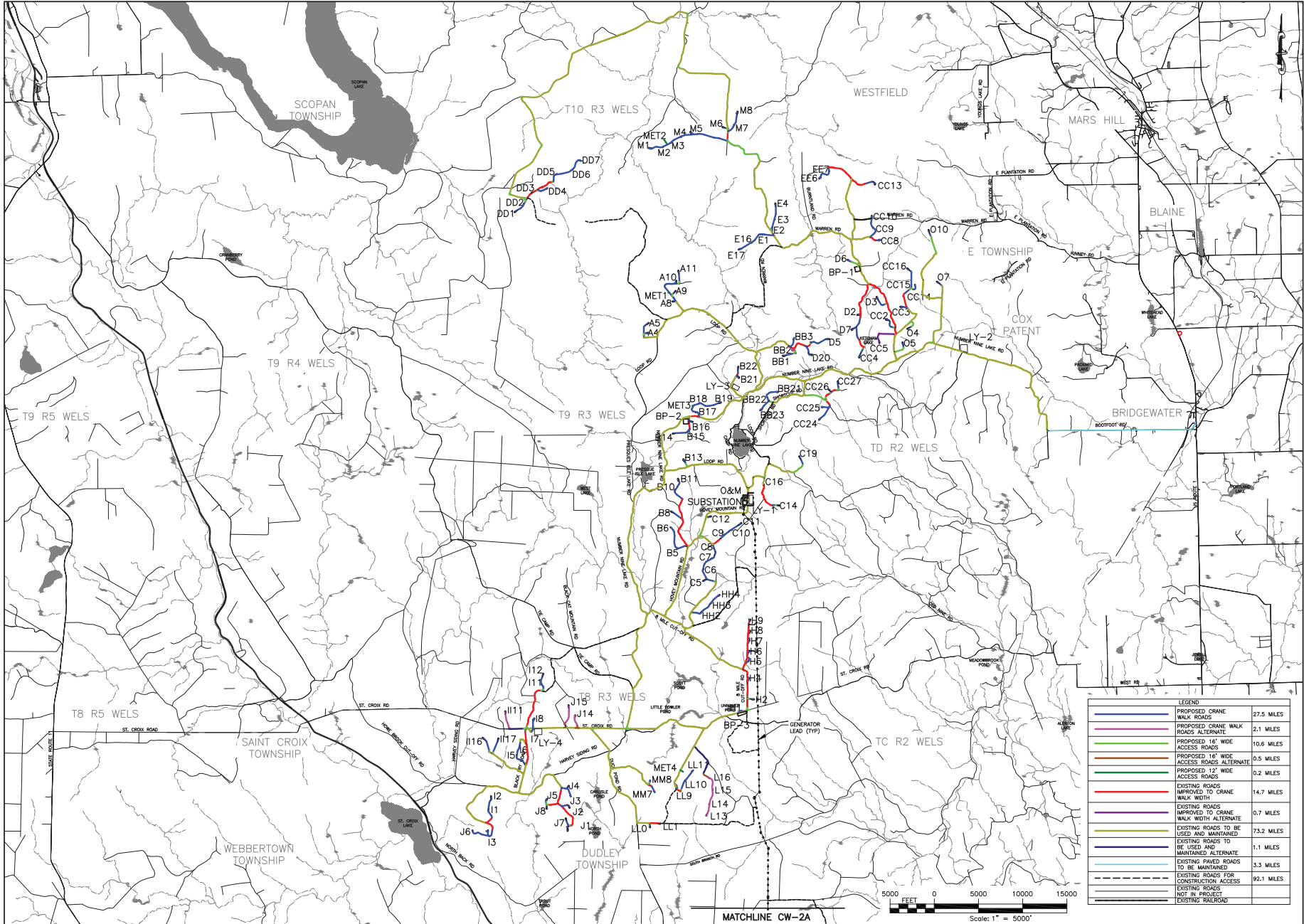
TITLE OF DRAWING:
 GENERAL NOTES AND LEGEND

DRAWING NO.:
 GN-1

SHEET 6 OF 338

FILE NAME: H:\Projects\140009\Num_Nine_Area_Form_LSA_Vlog\CAD\CAD\140009_general notes sheet_GN-1.dwg
 USER: Steve Mallett
 DATE: 7/20/15 AM

FILE NAME: I:\Projects\140009\Num_Nine_Maint_Plan_LSA_Visual\140009_crowe_walk_plan_CW-1.dwg
 DATE: 7/25/18 AM
 USER: Steven Mardit

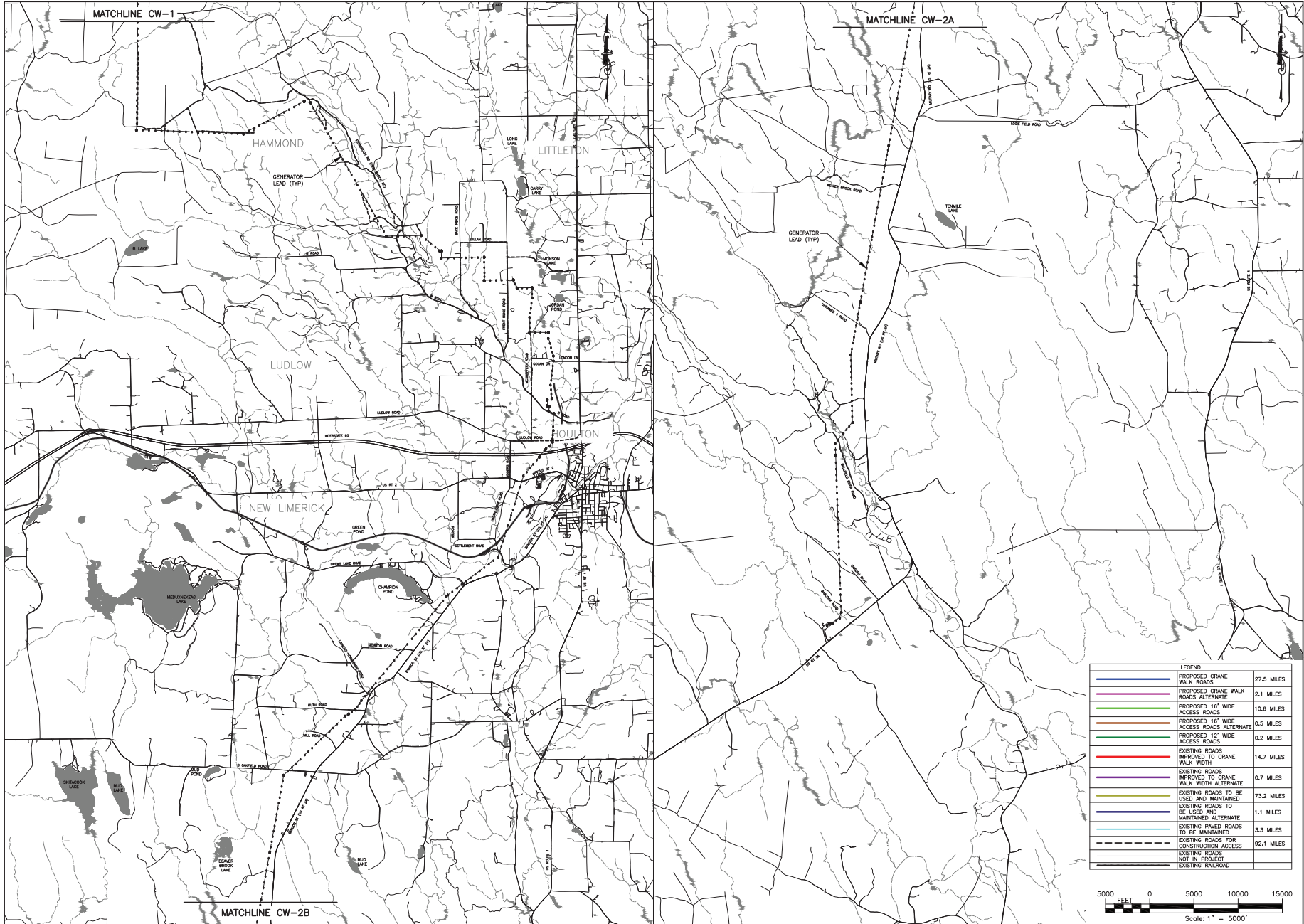


ROAD TYPE	LENGTH (MILES)
PROPOSED CRANE WALK ROADS	27.5
PROPOSED CRANE WALK ROADS ALTERNATE	2.1
PROPOSED 16' WIDE ACCESS ROADS	10.6
PROPOSED 16' WIDE ACCESS ROADS ALTERNATE	0.5
PROPOSED 12' WIDE ACCESS ROADS	0.2
EXISTING ROADS IMPROVED TO CRANE WALK WIDTH	14.7
EXISTING ROADS IMPROVED TO CRANE WALK WIDTH ALTERNATE	0.7
EXISTING ROADS TO BE USED AND MAINTAINED	73.2
EXISTING ROADS TO BE USED AND MAINTAINED ALTERNATE	1.1
EXISTING MAINTAINED ROADS TO BE MAINTAINED	3.3
EXISTING ROADS FOR CONSTRUCTION ACCESS	92.1
EXISTING ROADS NOT IN PROJECT	
EXISTING RAILROAD	

MATCHLINE CW-2A
 Scale: 1" = 5000'

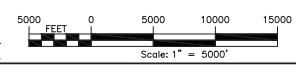
PROJECT: NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION		DRAWING NO. CW-1	SHEET 7 OF 338
		TITLE OF DRAWING: ACCESS ROAD MAINTENANCE PLAN 1	DATE: JULY 2018
		SCALE: AS SHOWN	REV:
		EXAMINED BY: DP/BA	DESCRIPTION:
PROJECT MANAGER: S. MELLOTT	CHECKED BY: J. BROWN	DATE:	BY:
PREPARED BY: S. MELLOTT	DATE:	REV:	DATE:
APPROVED BY: S. MELLOTT	DATE:	REV:	DATE:

FILE NAME: I:\Projects\140009\Num_9\Main_Lead_Form_LSA.dwg (DWG) 140009 cross walk plan CW-1.dwg
 DATE: 7/25/15 AM
 USER: Steve Martini



LEGEND

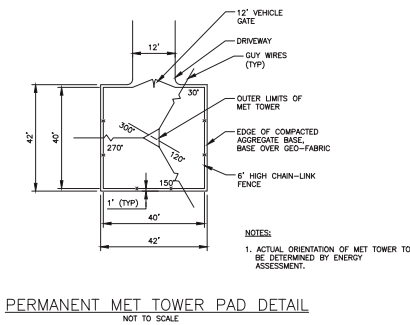
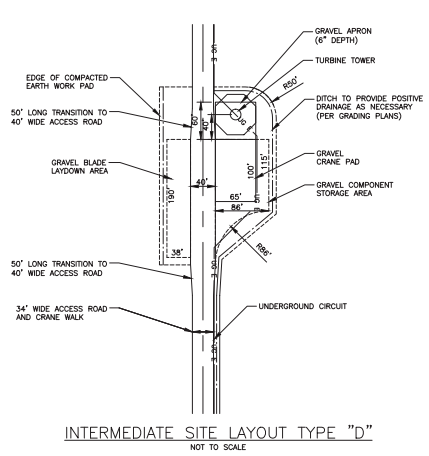
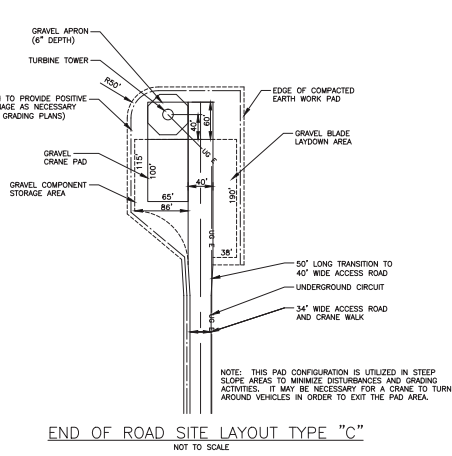
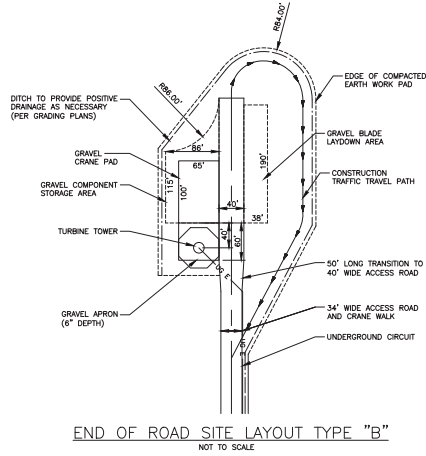
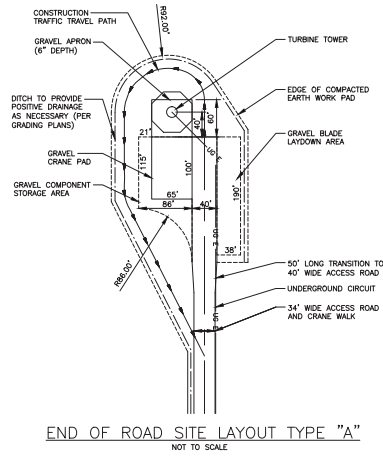
PROPOSED CRANE WALK ROADS	27.5 MILES
PROPOSED CRANE WALK ROADS ALTERNATE	2.1 MILES
PROPOSED 16' WIDE ACCESS ROADS	10.6 MILES
PROPOSED 16' WIDE ACCESS ROADS ALTERNATE	0.5 MILES
PROPOSED 12' WIDE ACCESS ROADS	0.2 MILES
EXISTING ROADS IMPROVED TO CRANE WALK WIDTH	14.7 MILES
EXISTING ROADS IMPROVED TO CRANE WALK WIDTH ALTERNATE	0.7 MILES
EXISTING ROADS TO BE USED AND MAINTAINED	73.2 MILES
EXISTING ROADS TO BE USED AND MAINTAINED ALTERNATE	1.1 MILES
EXISTING PAVED ROADS TO BE MAINTAINED	3.3 MILES
EXISTING ROADS FOR CONSTRUCTION ACCESS	92.1 MILES
EXISTING ROADS NOT IN PROJECT	
EXISTING RAILROAD	



PROJECT: NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION		DRAWING NO: CW-2	
TITLE OF DRAWING: ACCESS ROAD MAINTENANCE PLAN 2		SHEET 8 OF 338	
PROJECT MANAGER: S. MELLOTT		DATE: JULY 2015	
EXAMINER: DPBA		SCALE: AS SHOWN	
CONTRACT NO. 140009 PROJECT NO. 140009		REV: 1 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 2 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 3 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 4 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 5 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 6 DESCRIPTION:	
CONTRACTOR: S. MELLOTT		REV: 7 DESCRIPTION:	



FILE NAME: I:\Projects\140009\Num_Nine_Wind_Form_LSA.dwg (DWG) (C:\I\140009 details 1.dwg)
 DATE: 7/26/11 AM
 USER: Steven Martini

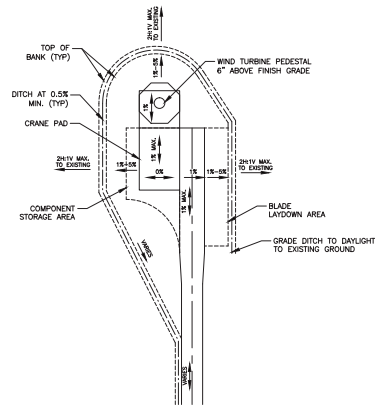


NO.	DESCRIPTION	DATE	BY
1	REV		
2			
3			
4			
5			
6			
7			

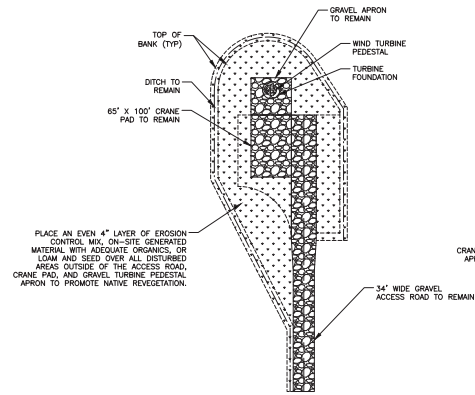
CONTRACT NO. 140009 PROJECT MANAGER S. MELLOTT DRAWN BY SMBA SCALE AS SHOWN SHEET DATE JULY 2011	CONSULTING ENGINEER PROFESSIONAL REGISTERED P.E., L.S., P.C. 1500 State Street, Suite 200 Portland, Maine 04101 TEL: 603.761.1100 FAX: 603.761.1101 WWW.PETERKEMPER.COM
--	---

PROJECT: NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION	NUMBER NINE WIND FARM DETAILS - 1
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DRAWING NO. DET-1 SHEET 10 OF 338

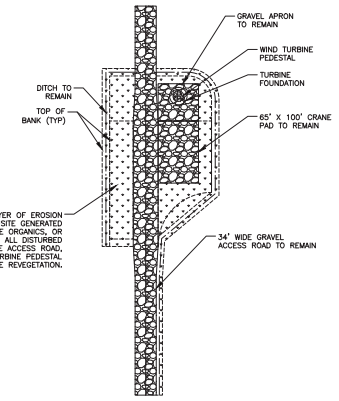


TYPICAL WTG PAD GRADING
NOT TO SCALE

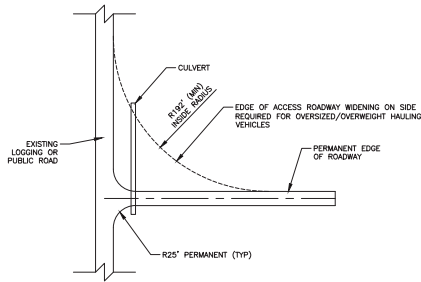


POST CONSTRUCTION WTG PAD RESTORATION
WITHIN PHOSPHORUS LIMITS WATERSHEDS
NOT TO SCALE

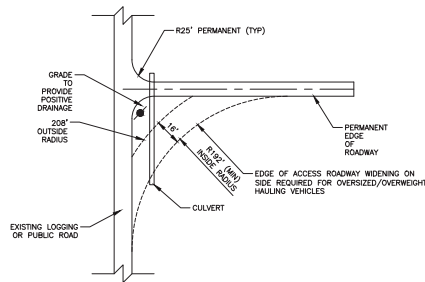
- NOTES:
1. IN PHOSPHORUS LIMITS WATERSHEDS, 34' WIDE ACCESS ROADS SHALL BE REDUCED TO 16' WIDE AND THE REMAINING AREAS SHALL BE REVEGETATED.
 2. IN SIGNIFICANT VERNAL POOL BUFFER AREAS, THE 34' WIDE ACCESS ROADS SHALL BE REDUCED TO 16' WIDE AND THE REMAINING AREAS SHALL BE REVEGETATED.



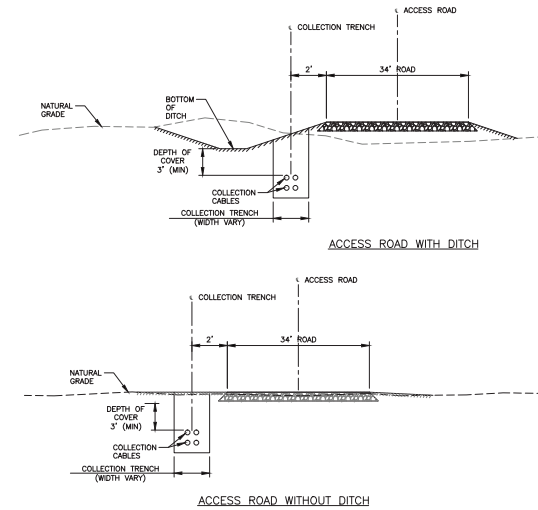
COLLECTION CABLE INSTALLATION DETAIL
ADJACENT TO ACCESS ROAD
NOT TO SCALE



INTERSECTION IMPROVEMENT A
NOT TO SCALE



INTERSECTION IMPROVEMENT B
NOT TO SCALE



ACCESS ROAD WITH DITCH
ACCESS ROAD WITHOUT DITCH
COLLECTION CABLE INSTALLATION DETAIL
ADJACENT TO ACCESS ROAD
NOT TO SCALE

DATE	BY	DESCRIPTION	REV
			7
			6
			5
			4
			3
			2
			1

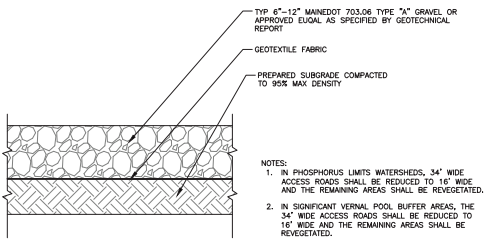
DATE	BY	DESCRIPTION
JULY 2015	AS SHOWN	AS SHOWN

PROJECT	NUMBER NINE WIND FARM ARCOOCHUCK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION
TITLE OF DRAWING	DETAILS - 2

DESIGNER	PROJECT MANAGER	DATE
140009	S. MELLOTT	JULY 2015

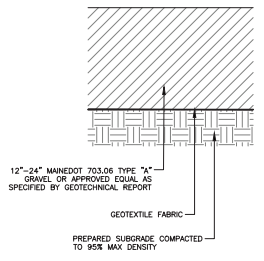
CONTRACT NO.	140009
PROJECT MANAGER	S. MELLOTT
DESIGNER	SM/BA
DATE	JULY 2015

DATE	BY	DESCRIPTION

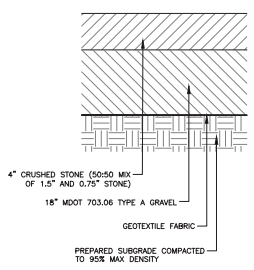


TYPICAL SITE LAYDOWN CONSTRUCTION DETAIL
NOT TO SCALE

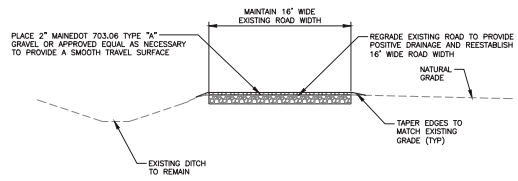
- NOTES:
1. ACTUAL LOCATIONS OF CRANE PADS SHALL BE DETERMINED IN THE FIELD.
 2. CRANE PADS SHALL BE GRADED WITH NO CROSS SLOPE.



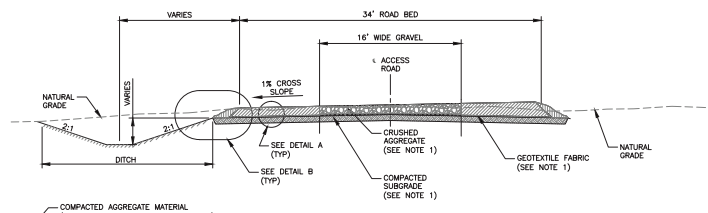
CRANE PAD CROSS SECTION
NOT TO SCALE



SUBSTATION CROSS SECTION
NOT TO SCALE

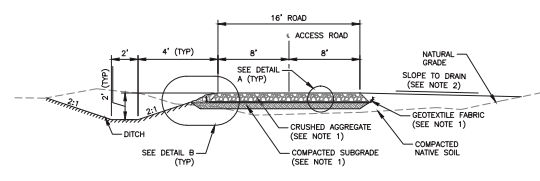


EXISTING ROAD MAINTENANCE DETAIL
NOT TO SCALE

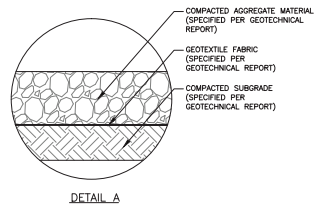


ACCESS ROAD CROSS SECTION DETAIL:
34-FT WIDE ACCESS ROAD WITH CRANE PATH
NOT TO SCALE

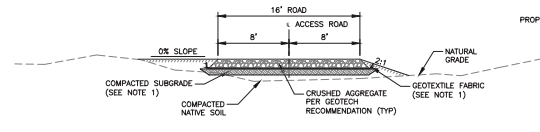
- NOTES:
1. THICKNESS OF ACCESS ROADWAY, GEOTEXTILE FABRIC, AND COMPACTED SUBGRADE SHALL BE BASED ON GEOTECHNICAL RECOMMENDATION.
 2. ADDITIONAL AGGREGATE IS INSTALLED ALONG THE EDGE OF ROAD BED AS SHOWN.



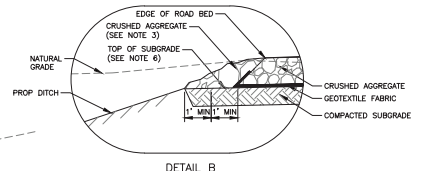
ACCESS ROAD W / DITCH



DETAIL A



ACCESS ROAD W/O DITCH



DETAIL B

- NOTES:
1. THICKNESS OF ACCESS ROADWAY, GEOTEXTILE FABRIC, AND COMPACTED SUBGRADE SHALL BE BASED ON GEOTECHNICAL RECOMMENDATION.
 2. LIMITS OF GROSS SLOPES SHALL BE:
0% - 2% MAX FOR ACCESS ROAD DURING CONSTRUCTION
0% - 2% MAX FOR NON-DITCH SECTION
2% - 4% MAX FOR ACCESS ROAD AFTER CONSTRUCTION
 3. ADDITIONAL AGGREGATE IS INSTALLED ALONG THE EDGE OF ROAD BED AS SHOWN.
 4. WIDTH OF ACCESS ROADWAY EASEMENT SHALL VARY BASED ON LEASE AGREEMENT WITH LAND OWNER.

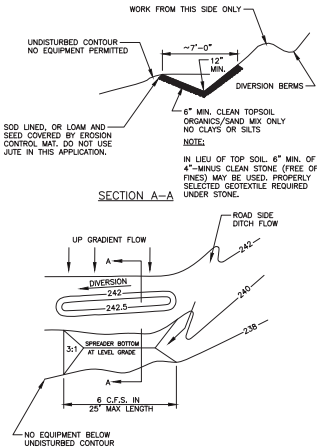
ACCESS ROAD CROSS SECTION DETAIL:
16-FT WIDE ACCESS ROAD WITHOUT CRANE PATH
NOT TO SCALE

FILE NAME: I:\Projects\140009\Num_Nine_Mind_Form_LSA_Veg_CAD\CAD\140009_detailed_1.dwg
DATE PLOTTED: 7/25/15 AM
USER: Steve Mardot

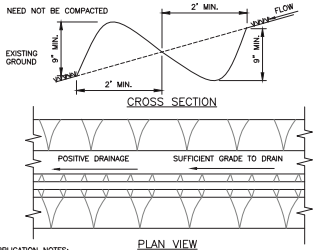
PROJECT:		NUMBER NINE WIND FARM		DRAWING NO.		DATE	
SUBJECT:		ARCOOCHUCK COUNTY, MAINE		DET-3		BY	
TITLE OF DRAWING:		PRELIMINARY PLANS NOT FOR CONSTRUCTION		REV		DESCRIPTION	
DRAWING NO.:		DETAILS - 3		1			
PROJECT MANAGER:		S. MELLOTT		2			
DESIGNER:		SMBA		3			
CHECKER:		SMBA		4			
DATE:		JULY 2015		5			
SCALE:		AS SHOWN		6			
SHEET NO.:		11		7			
SHEET TOTAL:		11		8			
PROJECT NO.:		140009		9			
DRAWN BY:		S. MELLOTT		10			
CHECKED BY:		SMBA		11			
DATE:		JULY 2015		12			
SCALE:		AS SHOWN		13			
SHEET NO.:		11		14			
SHEET TOTAL:		11		15			
PROJECT MANAGER:		S. MELLOTT		16			
DESIGNER:		SMBA		17			
CHECKER:		SMBA		18			
DATE:		JULY 2015		19			
SCALE:		AS SHOWN		20			
SHEET NO.:		11		21			
SHEET TOTAL:		11		22			



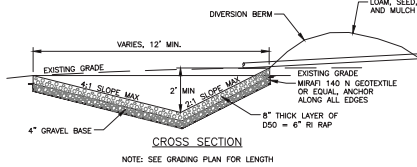
PROJECT: NUMBER NINE WIND FARM
SUBJECT: ARCOOCHUCK COUNTY, MAINE
TITLE OF DRAWING: PRELIMINARY PLANS NOT FOR CONSTRUCTION
DRAWING NO.: DETAILS - 3



ROAD DITCH TURN OUT LEVEL SPREADER
NOT TO SCALE

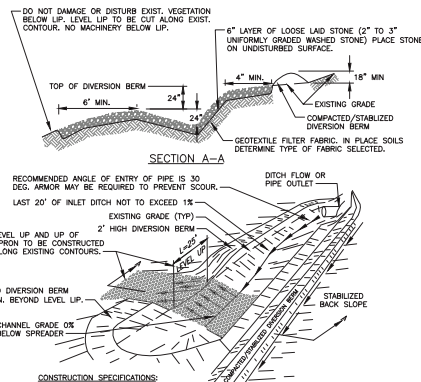


PERIMETER DIKE/SWALE DETAIL
NOT TO SCALE



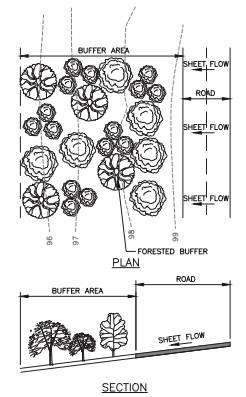
- LEVEL SPREADER NOTES:**
1. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION.
 2. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN A CUT SECTION, I.E. THERE SHALL BE NO EARTH FILL ALONG DOWNSTREAM EDGE.
 3. ALL LEVEL SPREADERS SHALL BE ALIGNED PARALLEL TO THE EXISTING CONTOURS.
 4. THE ENTRANCE DITCH TO THE LEVEL SPREADER SHALL HAVE A MAXIMUM GRADE OF 1.0% FOR AT LEAST 50 FEET IMMEDIATELY PRIOR TO ENTERING THE SPREADER.
 5. THE LEVEL SPREADER SHALL HAVE A LONGITUDINAL GRADE OF 0.0%.

TYPICAL LEVEL SPREADER DETAIL
NOT TO SCALE



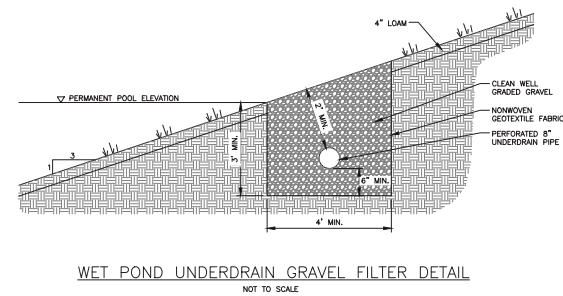
- CONSTRUCTION SPECIFICATIONS:**
1. SPREADERS SHALL BE INSTALLED WITH A LEVEL INSTRUMENT. CONSTRUCT LEVEL UP TO 0% GRADE TO ENSURE UNIFORM SHEET FLOW. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT FILL).
 2. SELECT GEOTEXTILE FABRIC BASED ON UNDISTURBED SOILS (SANDS, SILTS, CLAYS, ETC.).
 3. PLACE 6" LAYER OF UNIFORMLY GRADED STONE 2" TO 3" IN DIA., RAKE TO FORM SMOOTH UNIFORM SURFACE. DO NOT FILL WITH STONE.
 4. THE INLET DITCH SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 20 FEET BEFORE ENTERING THE SPREADER.
 5. STORM RUN-OFF CONVERTED TO SHEET FLOW ACROSS OUTLET APRON SHALL FLOW ONTO STABILIZED AREA. RUN-OFF SHALL NOT BE RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE.
 6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.
 7. CONSTRUCTION OF LEVEL UP SPREADER SHALL BE FROM UPHILL SIDE ONLY. LEVEL UP & AREA BELOW SPREADER SHALL BE AT EXISTING GRADES & UNDISTURBED BY EARTHWORK OR EQUIPMENT.
 8. CONSTRUCT SPREADER WITH UP AT EXISTING GRADES & SPECIFIED.
 9. DOWN GRADIENT RECEIVING AREA MUST BE NATURALLY WELL VEGETATED.
 10. DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY.

STONE BERMED LEVEL SPREADER
NOT TO SCALE



- NOTES:**
1. ROAD MUST BE GENERALLY PARALLEL TO THE CONTOURS OF THE SLOPE.
 2. ONLY RUNOFF FROM ADJACENT ROAD SURFACE AND SHOULDERS WILL BE DIRECTED TO BUFFER.
 3. BUFFER SLOPES NOT ALLOWED IN EXCESS OF 20%.
 4. RUNOFF MUST ENTER BUFFER AS SHEET FLOW.
 5. IF BUFFER IS USED TO TRAP SEDIMENT DURING CONSTRUCTION, SEDIMENT MUST BE REMOVED AND ORIGINAL TOPOGRAPHY, GRASS COVER AND VEGETATION IS TO BE REESTABLISHED. PROTECT BUFFER STRIP WITH WOOD WASTE BERM SEDIMENTATION BARRIERS OF SILT FENCE DURING THE CONSTRUCTION PROCESS.

ROADSIDE BUFFER DETAIL
NOT TO SCALE



WET POND UNDERDRAIN GRAVEL FILTER DETAIL
NOT TO SCALE

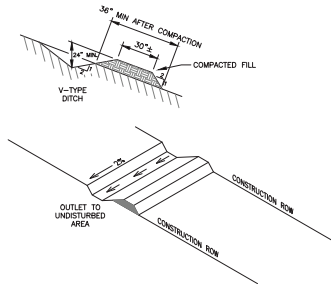
NO.	DESCRIPTION	DATE	BY
1	REV		
2			
3			
4			
5			
6			
7			

PROJECT NO.	140009
PROJECT MANAGER	S. MELLOTT
DESIGNER	SM/BA
SCALE	AS SHOWN
SHEET NO.	JUL 2015



PROJECT	NUMBER NINE WIND FARM
	ARCOOCHUCK COUNTY, MAINE
	PRELIMINARY PLANS NOT FOR CONSTRUCTION
	NUMBER NINE WIND FARM
TITLE OF DRAWING	DETAILS - 4

FILE NAME: I:\Projects\140009-Num_Nine_Wind_Farm_ES&A_Veg\CAD\CAD\140009_details_1.dwg
DATE PLOTTED: 7/20/15 10:22:22 AM
PLOTTER: HP DesignJet 5000PS



SPACING	
SLOPE	DISTANCE
10%	80 FEET
15%	60 FEET
20%	45 FEET

APPLICATION NOTES:

1. THE PRIMARY PURPOSE OF SLOPE BREAKERS IS TO LIMIT THE ACCUMULATION OF EROSION VELOCITY OF WATER BY DIVERTING SURFACE RUNOFF AT PRE-DESIGNED INTERVALS.
2. SLOPE BREAKERS SHALL BE PLACED ALONG LONG NARROW SLOPING AREAS THAT ARE LESS THAN 100-FT IN WIDTH AND SHALL BE SPACED IN ACCORDANCE WITH THE CHART SHOWN ABOVE.

CONSTRUCTION SPECIFICATIONS:

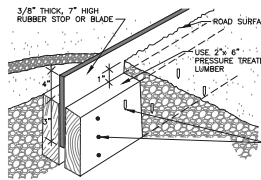
1. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
2. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
3. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.

MAINTENANCE NOTES:

1. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

SLOPE BREAKER DETAIL

NOT TO SCALE



SPACING	
SLOPE	DISTANCE
10%	80 FEET
15%	60 FEET
20%	45 FEET

APPLICATION NOTES:

1. THE PRIMARY PURPOSE OF RUBBER BARS IS TO LIMIT THE ACCUMULATION OF EROSION VELOCITY OF WATER BY DIVERTING SURFACE RUNOFF AT PRE-DESIGNED INTERVALS.
2. RUBBER BARS SHALL BE PLACED ALONG LONG NARROW SLOPING AREAS THAT ARE LESS THAN 100-FT IN WIDTH AND SHALL BE SPACED IN ACCORDANCE WITH THE CHART SHOWN ABOVE.

CONSTRUCTION SPECIFICATIONS:

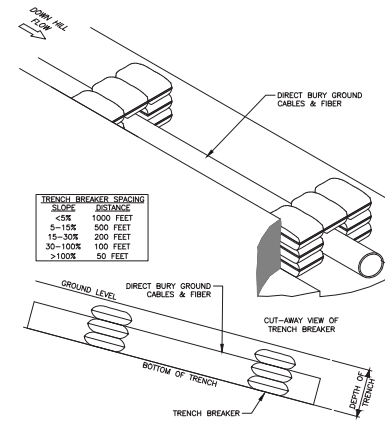
1. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
2. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
3. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.

MAINTENANCE NOTES:

1. PERIODICALLY INSPECT RUBBER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

RUBBER BAR DETAIL

NOT TO SCALE



TRENCH BREAKER SPACING	
SLOPE	DISTANCE
<5%	1000 FEET
5-15%	500 FEET
15-30%	200 FEET
30-100%	100 FEET
>100%	50 FEET

APPLICATION NOTES:

1. THE PRIMARY PURPOSE OF TRENCH BREAKERS IS TO REDUCE THE POTENTIAL FOR EROSION AND SCOUR WITHIN AN OPEN UTILITY TRENCH WHERE THE LONGITUDINAL SLOPE OF THE TRENCH IS STEEPER THAN 5 PERCENT.
2. TRENCH BREAKERS SHALL BE SPACED IN ACCORDANCE WITH THE CHART SHOWN ABOVE.

CONSTRUCTION SPECIFICATIONS:

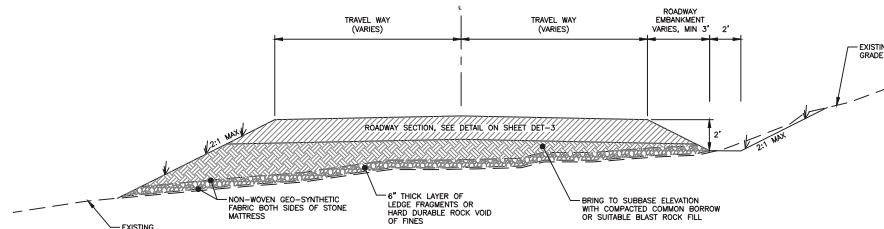
1. FILTER FABRIC GEOTEXTILE SHALL BE A SINGLE CONTINUOUS PIECE TO ELIMINATE JOINTS. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
2. FILL MATERIALS WITHIN THE BASS SHALL BE SAND OR SOIL (WITHOUT ROCKS) OR FUNCTIONAL EQUIVALENT. DO NOT USE TOPSOIL TO FILL BASIS.
3. TRENCH BREAKERS SHALL EXTEND A MINIMUM OF 6-IN. ABOVE THE TOP OF THE CABLES.

MAINTENANCE NOTES:

1. THE BARRIER SHALL BE INSPECTED AFTER EACH RAIN EVENT AND REPAIRS MADE WHERE NEEDED.
2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE FOR ACCURATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
3. UPON STABILIZATION OF SURROUNDING AREA, REMOVE ALL MATERIALS AND ANY UNSUITABLE SOIL AND DISPOSE OF PROPERLY.

TRENCH BREAKER DETAIL

NOT TO SCALE



ROCK MATTRESS INSTALLATION NOTES

1. ROCK MATTRESS TO BE USED AS APPROPRIATE IN AREAS WHERE SIGNIFICANT UNANTICIPATED GROUNDWATER SEEPS ARE ENCOUNTERED DURING CONSTRUCTION.

ROCK MATTRESS DETAIL

NOT TO SCALE

REV	DESCRIPTION	DATE	BY
7			
6			
5			
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1			

CONTRACTOR'S SIGN PROJECT MANAGER S. MELLOTT DRAWN BY SMBA SCALE AS SHOWN	SHEET DATE JULY 2015
---	-------------------------

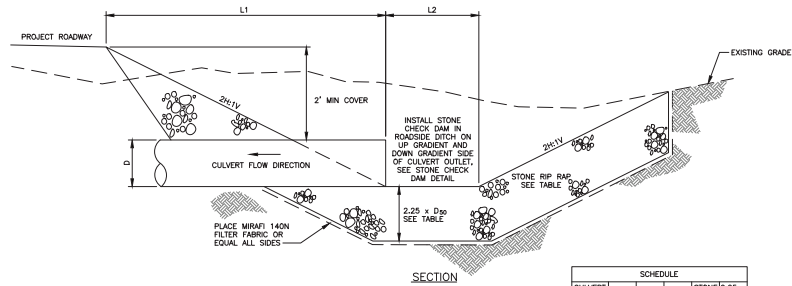
FABRIC/TEXTILE 140009 PROJECT MANAGER S. MELLOTT DRAWN BY SMBA	SHEET DATE JULY 2015
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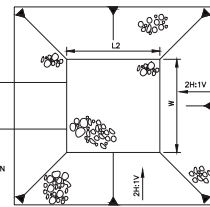
PROJECT NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION	TITLE OF DRAWING DETAILS - 5
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DRAWING NO. DET-5 SHEET 14 OF 338
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FILE NAME: I:\Projects\140009-Num_Nine_Wind_Mfd_Form_LSA_Veg_CAD\CAD\140009_detailed_2.dwg
 DATE: 7/26/16 AM
 USER: Steven Martini

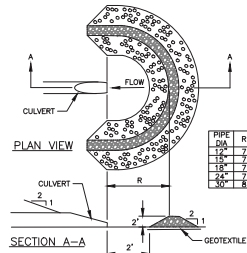


- NOTES:
1. INSTALL STONE CHECK DAM IN ROADSIDE DITCH ON UP GRADIENT AND DOWN GRADIENT SIDE OF CULVERT OUTLET. SEE STONE CHECK DAM DETAIL.



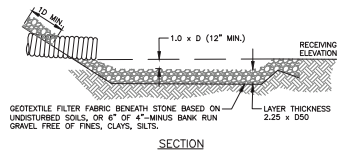
CULVERT INLET PROTECTION
 NOT TO SCALE

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

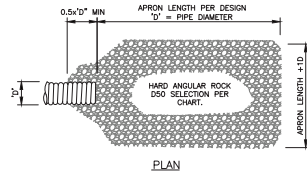


- NOTES:
1. USE 2" TO 3" STONE.
 2. PLACE STONE OVER GEOTEXTILE.
 3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED BY VEGETATION, THE SEDIMENT TRAPPED BEHIND/WITHIN THE DAM SHALL BE RELOCATED TO AN AREA UNDERGOING FINAL GRADING.
 4. THE CHECK DAMS SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE. (GEOTEXTILE MUST BE REMOVED).
 5. THE GEOTEXTILE SHALL BE DISPOSED OFFSITE.
 6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 10 ACRES.

TEMPORARY CHECK DAM AT CULVERT ENTRANCE
 NOT TO SCALE

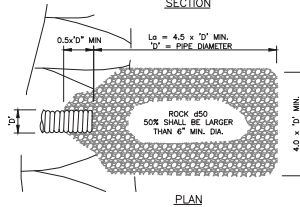
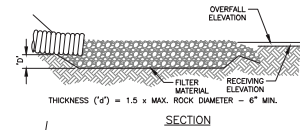


GEOTEXTILE FILTER FABRIC BENEATH STONE BASED ON UNDISTURBED SOILS, OR 6" OF 4" MINUS BANK RUN GRAVEL FREE OF FINES, CLAYS, SILTS.



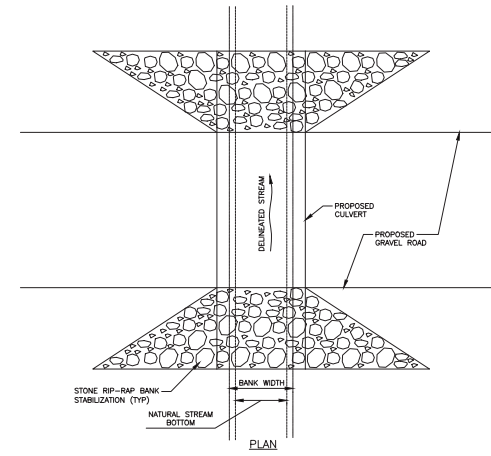
- NOTES:
1. CONSULT WITH IF&W IF FISH PASSAGE WILL BE INHIBITED DURING LOW FLOWS.
 2. REFER TO DESIGN NOTES AND LIMITATIONS IN TEXT ON PIPE OUTLET PROTECTION.
 3. IN DEFINED CHANNELS, APRON SHALL EXTEND FULL WIDTH OF BOTTOM AND ONE FOOT ABOVE MAX. TAILWATER OR UP TO BANK FULL, WHICHEVER IS LESS.

CULVERT OUTLET PROTECTION
 NOT TO SCALE

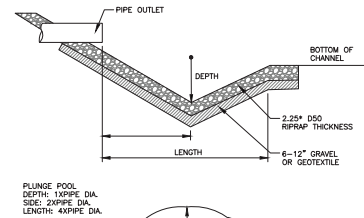


- NOTES:
1. "L₀" = LENGTH OR APRON. DISTANCE "L₀" SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
 2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
 3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK MINIMUM GRADED GRAVEL LAYER.

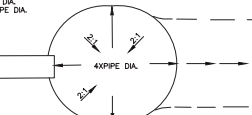
CULVERT OUTLET ENERGY DISSIPATER
 NOT TO SCALE



PERMANENT CULVERT STREAM CROSSING
 NOT TO SCALE



PLUNGE POOL
 DEPTH: 1X PIPE DIA.
 SIZE: 2X PIPE DIA.
 LENGTH: 4X PIPE DIA.



OUTLET PLUNGE POOL
 NOT TO SCALE

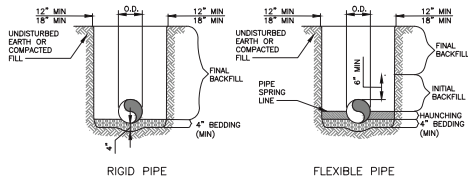
NO.	DESCRIPTION	DATE	BY
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PROJECT:	NUMBER NINE WIND FARM
	ARCOOCH COUNTY, MAINE
	PRELIMINARY PLANS NOT FOR CONSTRUCTION
TITLE OF DRAWING:	NUMBER NINE WIND FARM
	DETAILS - 6

DESIGNED BY:	S. MELLOTT
CHECKED BY:	SMBA
SCALE:	AS SHOWN
DATE:	JULY 2016

DATE:	JULY 2016
BY:	AS SHOWN

FILE NAME: I:\Projects\140009-Num_Nine_Mat_Bridg_Form_ESA_Veg\CAD\CAD\140009_detailed.dwg
 USER: Storm
 DATE: 7/26/16 AM



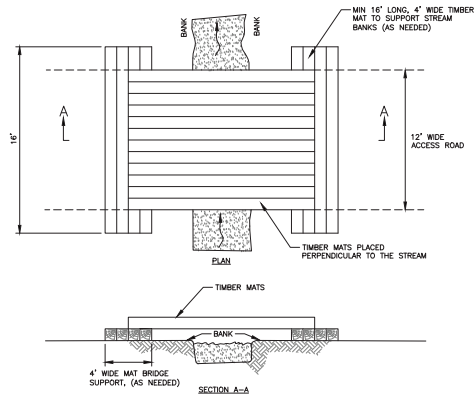
GENERAL NOTES:

*AASHTO SOIL CLASSIFICATIONS USED

- BEDDING SHALL BE CLASS 1-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS 1-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS 1-A OR CLASS 1-B OR CLASS II COMPACTED TO 85% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS 1-A WORKED BY HAND, OR CLASS 1-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- FINAL BACKFILL SHALL BE CLASS I, II OR III COMPACTED AS NOTED IN NOTE 3. FINAL COVER OVER PIPE SHALL BE MIN. 24".
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

CULVERT TRENCH DETAIL

NOT TO SCALE

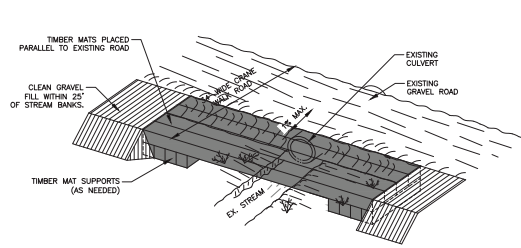


NOTES:

- DEPLOY EROSION CONTROLS AS NEEDED TO MINIMIZE EROSION.
- PERFORM ROUTINE INSPECTION TO INCLUDE REMOVAL OF LOOSE SOIL TRACKED ONTO BRIDGE BY EQUIPMENT AND INSPECTION OF STREAM BANKS FOR STABILITY.
- MATS SHALL BE POSITIONED TO MAINTAIN THE NATURAL STREAM CHARACTERISTICS.
- 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.
- A MINIMUM BRIDGE WIDTH OF 16' SHALL BE USED.
- BRIDGES USED FOR MULTIPLE CROSSINGS AND LONG TERM USE SHALL BE INSTALLED WITH FARRIS, SECONDARY DECKING, AND SIDE BOARDS.

TYPICAL "MAT" BRIDGE FOR TEMPORARY STREAM CROSSING

NOT TO SCALE

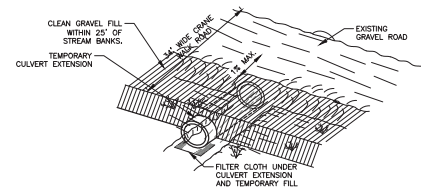


NOTES:

- MATS SHALL BE POSITIONED TO MAINTAIN THE NATURAL STREAM CHARACTERISTICS.
- TEMPORARY TIMBER MATS SHALL BE INSTALLED NO SOONER THAN 4 WEEKS PRIOR TO THE CRANE CROSSING AND SHALL BE REMOVED WITHIN 5 MONTHS AFTER THE CROSSING.
- IN AREAS THAT HAVE LESS THAN 1" OF COVER OVER THE EXISTING CULVERT, A STEEL PLATE MAY BE UTILIZED IN CONJUNCTION WITH THE TEMPORARY TIMBER MATS TO SPAN THE EXISTING CULVERT AND PROVIDE FOR CONSTRUCTION LOADING.

TEMPORARY CRANE MAT STREAM CROSSING

NOT TO SCALE

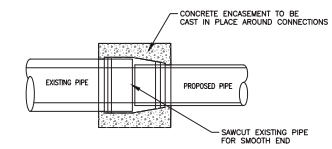


NOTES:

- EXISTING CULVERT SHALL BE EXTENDED ON THE SIDE OF ROAD RESULTING IN THE LEAST AMOUNT OF WETLAND AND/OR STREAM IMPACTS.
- TEMPORARY CULVERT SHALL BE INSTALLED NO SOONER THAN 4 WEEKS PRIOR TO THE CRANE CROSSING AND SHALL BE REMOVED WITHIN 5 MONTHS AFTER THE CROSSING.
- THE CULVERT SHALL EXTEND A MINIMUM OF 1' BEYOND THE TOP OF SLOPE.
- IN AREAS THAT HAVE LESS THAN 1" OF COVER OVER THE EXISTING CULVERT, A STEEL PLATE MAY BE UTILIZED IN CONJUNCTION WITH THE TEMPORARY CULVERT EXTENSIONS TO SPAN THE CULVERT AND PROVIDE FOR CONSTRUCTION LOADING.
- THE MINIMUM DIAMETER OF THE TEMPORARY CULVERT SHALL EQUAL THE SIZE OF THE EXISTING CULVERT.

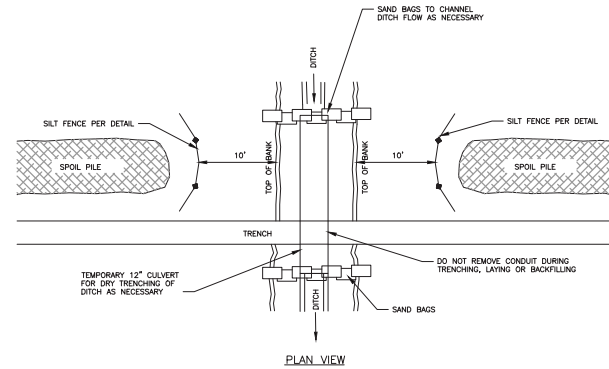
TEMPORARY CULVERT EXTENSION

NOT TO SCALE

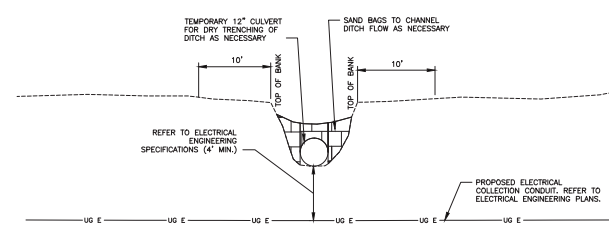


CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE

NOT TO SCALE



PLAN VIEW



SECTION VIEW

NOTES:

- TEMPORARY SAND BAGS AND CULVERT ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION WITHIN THE LIMITS OF THE DITCH. IN THE EVENT THAT SAND IS DRYING DURING CONSTRUCTION, SAND BAGS AND CONDUIT ARE NOT NECESSARY.
- EXCAVATED TRENCH MATERIAL SHALL BE STOCKPILED ADJACENT TO THE TRENCH, NO CLOSER THAN 25' FROM THE TOP OF BANK OF THE DITCH.
- SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILED MATERIAL AND THE TOP OF BANK OF THE DITCH.
- IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE, PERMANENT STABILIZATION MEASURES SHALL BE APPLIED.
- REFER TO ELECTRICAL DESIGN FOR CONDUIT DEPTH AND TRENCH DETAILS.

TYPICAL EROSION CONTROL & CLEARANCE DETAIL FOR COLLECTION LINE OPEN CUT DITCH CROSSING

NOT TO SCALE

NO.	REV	DESCRIPTION	DATE	BY
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CONTRACT NO. 2014-1
 PROJECT NO. 140009
 DRAWING NO. DET-7
 SHEET 16 OF 338

PROJECT: NUMBER NINE WIND FARM
 APOOSOOK COUNTY, MAINE
 PRELIMINARY PLANS NOT FOR CONSTRUCTION

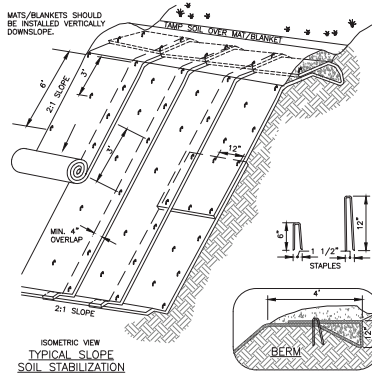
DESIGNER: FISHBECK+KURTZ
 1000 BROADWAY, SUITE 200
 PORTLAND, ME 04101
 TEL: 603.761.1234
 WWW.FISHBECKKURTZ.COM

SCALE: AS SHOWN
 SHEET DATE: JULY 2016

PROJECT: NUMBER NINE WIND FARM
 APOOSOOK COUNTY, MAINE
 PRELIMINARY PLANS NOT FOR CONSTRUCTION

DESIGNER: FISHBECK+KURTZ
 1000 BROADWAY, SUITE 200
 PORTLAND, ME 04101
 TEL: 603.761.1234
 WWW.FISHBECKKURTZ.COM

SCALE: AS SHOWN
 SHEET DATE: JULY 2016

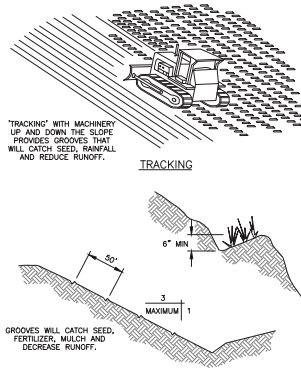


NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

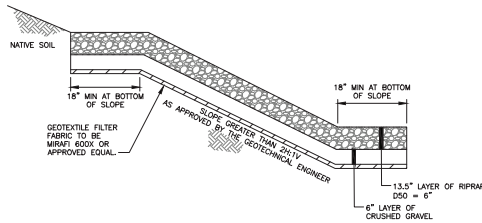
EROSION BLANKETS SLOPE INSTALLATION

NOT TO SCALE



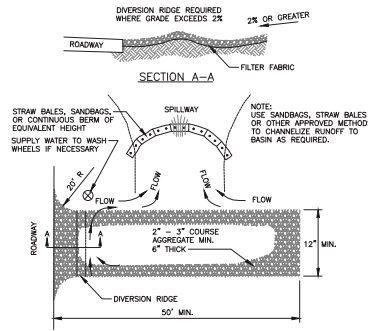
SURFACE ROUGHENING

NOT TO SCALE



RIP-RAP SLOPE STABILIZATION DETAIL

NOT TO SCALE



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

GRAVEL CONSTRUCTION ENTRANCE/EXIT

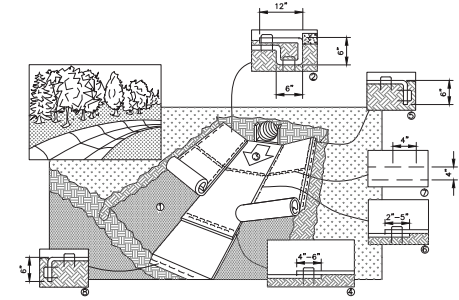
NOT TO SCALE

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DATE PLOTTED: 7/26/15 9:41 AM
USER: Steven J. Marti

PROJECT: NUMBER NINE WIND FARM AROSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION		DRAWING NO. DET-8	
TITLE OF DRAWING: DETAILS - 8		SHEET 17 OF 338	
DESIGNER: S. MELLOTT		DATE: JULY 2015	
CHECKED BY: AS SHOWN		REV:	
SCALE: AS SHOWN		DESCRIPTION:	
DATE: JULY 2015		BY:	
PROJECT MANAGER: S. MELLOTT		REV 7	
DRAWN BY: DPBA		REV 6	
SCALE:		REV 5	
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BY:		REV 3	
DATE:		REV 2	
BY:		REV 1	
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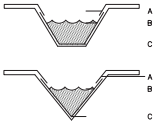


FILE NAME: I:\Projects\140009\Num_Nine_Mid_Form_LSA_Veg_CAD\CAD\140009_detailed.dwg
 USER: Steven Martini
 DATE: 7/26/16 AM



CRITICAL POINTS

- A. OVERLAPS AND SEAMS
- B. PROJECTED WATER LINE
- C. CHANNEL BOTTOM/SIDE SLOPE VERTICES



- * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

NOTES:

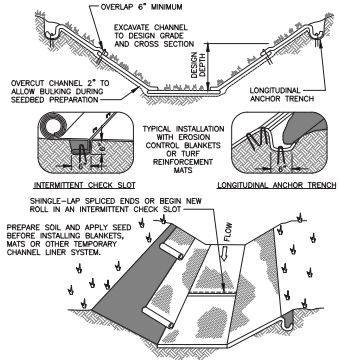
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.

CHANNEL INSTALLATION SPECIFICATIONS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH THE PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE TRENCH IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET TYPE) AND STAPLED, TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' TO 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. EROSION CONTROL BLANKETS INSTALLED WITHIN CHANNELS/SWALES/DITCHES SHALL BE NORTH AMERICAN GREEN SC-250 OR APPROVED EQUAL.

EROSION CONTROL BLANKET - CHANNEL INSTALLATION

NOT TO SCALE

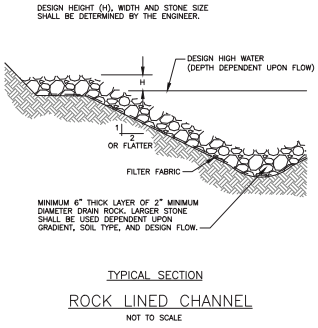


NOTES:

1. DESIGN VELOCITIES EXCEEDING 2 FT/SEC REQUIRE TEMPORARY BLANKETS, MATS OR SIMILAR LINERS TO PROTECT SEED AND SOIL UNTIL VEGETATION BECOMES ESTABLISHED.
2. GRASS-LINED CHANNELS WITH DESIGN VELOCITIES EXCEEDING 6 FT/SEC SHOULD INCLUDE TURF REINFORCEMENT MATS.

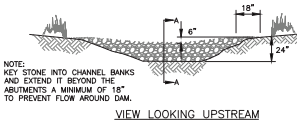
GRASS-LINED CHANNEL TYPICAL INSTALLATION

NOT TO SCALE



TYPICAL SECTION ROCK LINED CHANNEL

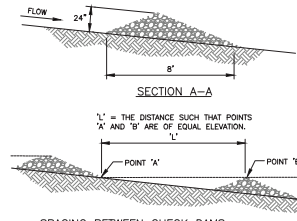
NOT TO SCALE



NOTE:

- KEY STONE INTO CHANNEL BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND DAM.

VIEW LOOKING UPSTREAM



SECTION A-A

L' = THE DISTANCE SUCH THAT POINTS X' AND Y' ARE OF EQUAL ELEVATION.

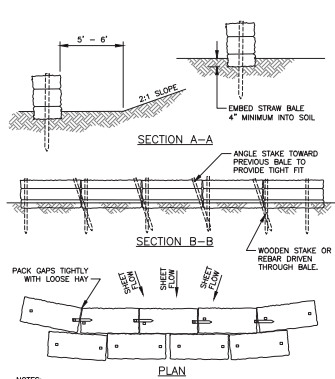
POINT X' POINT Y'

SPACING BETWEEN CHECK DAMS

ROCK CHECK DAM

NOT TO SCALE

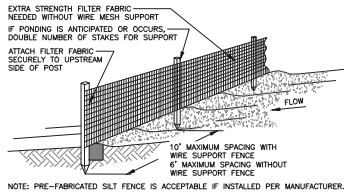
PROJECT:	NUMBER NINE WIND FARM	PROJECT MANAGER:	S. MELLOTT	DATE:	JULY 2016
PROJ. NO.:	140009	DESIGNER:	D.P.B.A.	REV:	1
TITLE OF DRAWING:	DETAILS - 9	SCALE:	AS SHOWN	REV:	2
DRAWING NO.:	DET-9	SCALE:	AS SHOWN	REV:	3
SHEET NO. OF TOTAL SHEETS:	18 OF 338	SCALE:	AS SHOWN	REV:	4
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BY:		SCALE:	AS SHOWN	REV:	6
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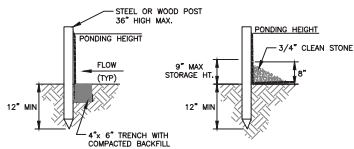
NOTES:

1. THE STRAW BALES SHALL BE PLACED ON SLOPE CONTOURS.
2. BALES TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING.
3. KEY IN BALES TO PREVENT EROSION OR FLOW UNDER BALES.
4. DO NOT USE HAY BALES IN CONCENTRATED FLOW CONDITIONS OR IN STREAMS.

STRAW BALE DIKE
NOT TO SCALE



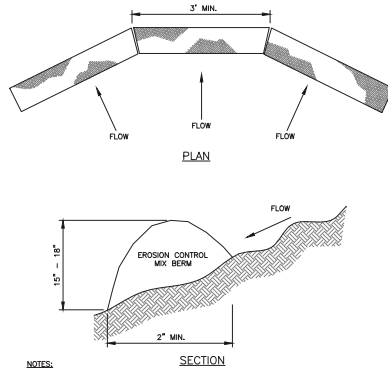
NOTE: PRE-FABRICATED SILT FENCE IS ACCEPTABLE IF INSTALLED PER MANUFACTURER.



NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. DO NOT PLACE SILT FENCE IN STREAMS OR CONCENTRATED FLOW CONDITIONS.

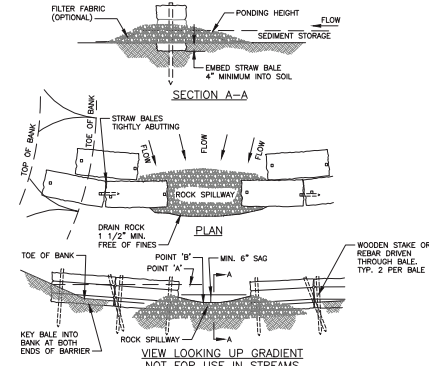
SILT FENCE
NOT TO SCALE



NOTES:

1. 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 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 70 PERCENT TO 85 PERCENT, PASSING A 3/4" 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.
2. 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.
3. FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS WHERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIVE.
4. THE EROSION CONTROL MIX CAN BE CONTAINED WITHIN A SYNTHETIC TUBULAR NETTING OR "SOCK".

EROSION CONTROL BERM MIX DETAIL
NOT TO SCALE



NOTES:

1. PLACE BALES PERPENDICULAR TO FLOW.
2. EMBED THE BALE 4" INTO THE SOIL AND "KEY" THE END BALES INTO THE CHANNEL BANKS TO PREVENT FLOW AROUND THE BALES.
3. BALES PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
4. POINT "A" SHALL BE HIGHER THAN POINT "B".
5. SPILLWAY HEIGHT SHALL NOT EXCEED 24".
6. SILT FENCE MAY BE USED IN LIEU OF BALES (FOLLOW SAME GUIDELINES).

SEMI-PERVIOUS STRAW BALE OR SILT FENCE SEDIMENT BARRIER
NOT TO SCALE

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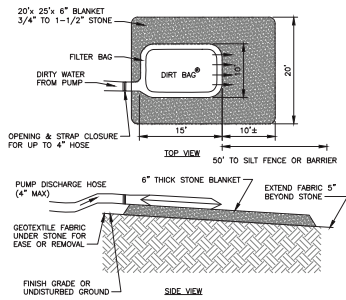
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PROJECT: NUMBER NINE WIND FARM AROOSTOOK COUNTY, MAINE PRELIMINARY PLANS NOT FOR CONSTRUCTION	DRAWING NO. DET-10
TITLE OF DRAWING: DETAILS - 10	SHEET NO. 10 OF 10

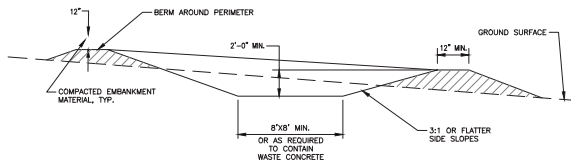
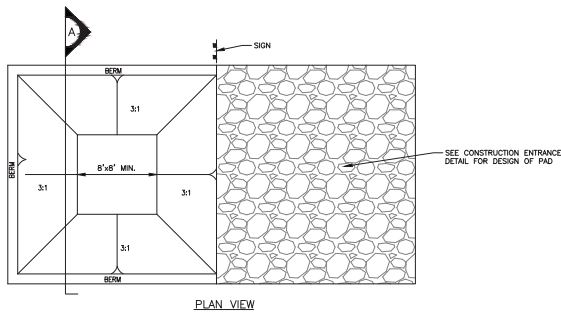
PREPARED BY: S. MELLOTT CHECKED BY: D.P.B.A. DATE: JULY 2015	SCALE: AS SHOWN
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CONTRACT NO. 2014-01-001 PROJECT NO. 2014-01-001 SHEET NO. 10 OF 10	PROJECT NO. 2014-01-001 SHEET NO. 10 OF 10
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- NOTES:**
- DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
 - DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
 - LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
 - DOWN GRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION, I.E. FOREST FLOOR OR COARSE GRAVEL/STONE.
 - DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY. SECONDARY CONTAINMENT MAY BE NECESSARY.

PUMPED DISCHARGE SEDIMENT CONTROL DEVICE ("DIRT BAG")
NOT TO SCALE



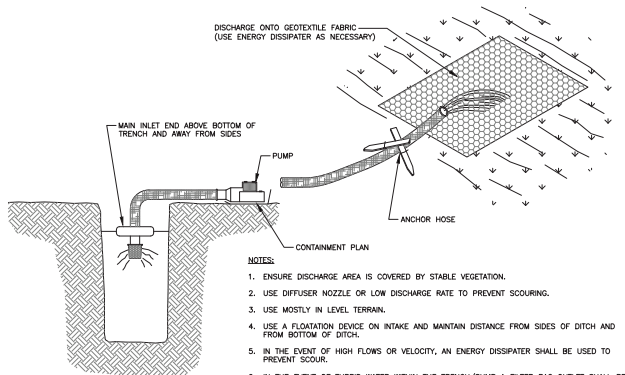
CONCRETE WASHOUT AREA
NOT TO SCALE

CONCRETE WASHOUT AREA INSTALLATION NOTES:

- CONCRETE WASHOUT AREAS ARE TO BE INSTALLED AT EACH WTG PAD LOCATION, O & M BUILDING SITE, SUBSTATION SITE, LAYDOWN AREA AND WHEREEVER ELSE CONCRETE IS USED FOR THE PROJECT.
- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.
- VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRS.
- MATERIAL EXHAUSTED TO CREATE CONCRETE WASHOUT PIT SHALL BE UTILIZED TO CONSTRUCT PERIMETER BERM AROUND PIT.

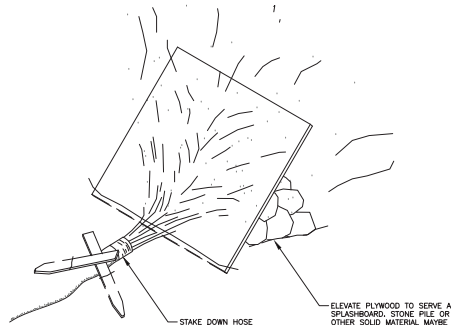
CONCRETE WASHOUT AREA MAINTENANCE NOTES:

- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
- WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.



- NOTES:**
- ENSURE DISCHARGE AREA IS COVERED BY STABLE VEGETATION.
 - USE DIFFUSER NOZZLE OR LOW DISCHARGE RATE TO PREVENT SCOURING.
 - USE MOSTLY IN LEVEL TERRAIN.
 - USE A FLOATATION DEVICE ON INTAKE AND MAINTAIN DISTANCE FROM SIDES OF DITCH AND FROM BOTTOM OF DITCH.
 - IN THE EVENT OF HIGH FLOWS OR VELOCITY, AN ENERGY DISSIPATER SHALL BE USED TO PREVENT SCOUR.
 - IN THE EVENT OF TURBID WATER WITHIN THE TRENCH/SUMP A FILTER BAG OUTLET SHALL BE USED.

DEWATERING OPERATION WITH SURFACE STABILIZED OUTLET OPTION
NOT TO SCALE



DEWATERING ENERGY DISSIPATER OUTLET OPTION
NOT TO SCALE

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USER: Steven M. Bost

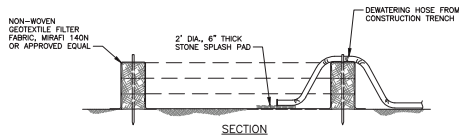
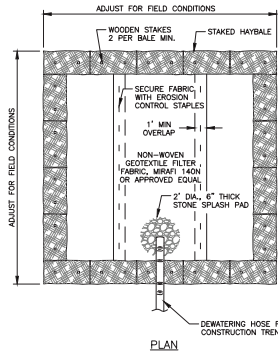
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PROJECT	NUMBER NINE WIND FARM ARCOOCHUCK COUNTY, MAINE
DESIGNER	PRELIMINARY PLANS NOT FOR CONSTRUCTION
TITLE OF DRAWING	DETAILS - 11

DATE	JULY 2016
SCALE	AS SHOWN
DESIGNER	S. MELLOTT
CHECKED	D. P. B. A.
APPROVED	

CONTRACT NO.	140009
PROJECT MANAGER	S. MELLOTT
DESIGNER	D. P. B. A.
CHECKED	
APPROVED	

CONTRACT NO.	140009
PROJECT MANAGER	S. MELLOTT
DESIGNER	D. P. B. A.
CHECKED	
APPROVED	



NOTES:

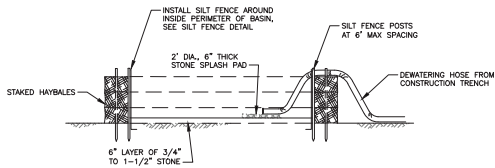
1. SIZE OF BASIN AND ASSOCIATED NUMBER OF BALES MAY VARY BASED ON SITE CONDITIONS.
2. THE BASIN SHALL BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN. IF BASIN IS OVERTOPPED DISCONTINUE USE IMMEDIATELY AND RE-SIZE.
3. KEEP BASIN AS FAR FROM WETLANDS AS PRACTICAL. DO NOT LOCATE BASIN WITHIN 25 FEET OF WETLANDS OR OTHER RESOURCES.
4. BASINS SHALL BE LOCATED IN AREAS THAT ARE GENERALLY FLAT WITH SLOPES FROM 0-2%.
5. USE REINFORCED BASINS AS DETAILED WITH SILT FENCE AND STONE IN AREAS OF CONSIDERABLE FLOW AND FOR BASINS THAT ARE TO BE USED FOR PERIODS LONGER THAN 7 DAYS.
6. CLEAN AND REMOVE BASIN AS SOON AS DEWATERING IS COMPLETE.
7. CONCRETE JERSEY BARRIERS CAN BE SUBSTITUTED FOR HAYBALES AS DESIRED TO SUPPORT FILTER FABRIC.

TEMPORARY SEDIMENT BASIN DETAIL

NOT TO SCALE

CONSTRUCTION DEWATERING NOTES:

1. INSTALL DIVERSION DITCHES OR BERMS TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED TO DISCHARGE INTO THE EXCAVATED AREA.
2. TREATMENT OF SEDIMENT BEARING WATER SHALL BE ACCOMPLISHED UTILIZING TEMPORARY SEDIMENT BASINS, MANUFACTURED FILTER "BOOKS", CONCRETE OR STEEL SETTLING CHAMBERS OR OTHER APPROVED TECHNIQUES.
3. TREATED OR CLEAN RUNOFF WITH MINIMAL TO NO DISCOLORATION FROM SEDIMENT SHALL BE DISCHARGED TO ADJACENT GRASSED AREAS THAT CONTAIN A MAXIMUM OF 0-2% SLOPES. STABILIZATION WITH CRUSHED STONE SHALL BE APPLIED TO VICINITY AREA, AS NEEDED, TO PREVENT EROSION FROM OUTFLOW OF WATER.
4. INSPECTION OF DEWATERING FACILITIES IS TO BE PERFORMED FREQUENTLY EACH DAY FOR SIGNS OF EROSION AND CONCENTRATED FLOW.
5. IF COLLECTED DEWATERING DISCHARGE IS CONTAMINATED WITH OIL, GREASE OR OTHER TOXIC/HAZARDOUS MATERIALS, THE ENGINEER SHALL CONTACT THE APPROPRIATE AUTHORITY AND CEASE WORK IMMEDIATELY.
6. TREATED COLLECTED DEWATERED DISCHARGE MAY BE DISCHARGED INTO EXISTING MAN-MADE STORMWATER CONVEYANCES INCLUDING STORM DRAINS, ROADSIDE DITCHES, PROVIDED THAT REQUIRED PERMISSIONS FROM THE APPROPRIATE LANDOWNER, MUNICIPALITY, OR UTILITY, ETC. HAVE BEEN OBTAINED PRIOR TO DISCHARGE.
7. PROLONGED DEWATERING DURING PERIODS OF HEAVY RAIN SHALL BE AT THE DISCRETION OF THE ENGINEER.
8. THE ENGINEER SHALL HAVE THE AUTHORITY TO STOP DEWATERING OPERATIONS AS CONDITIONS DICTATE.



REINFORCED SEDIMENT BASIN SECTION

NOT TO SCALE

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CONTRACTOR: 140009 PROJECT MANAGER: S. MELLOTT EXAMINER: DP/BA SCALE: AS SHOWN			
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