
PUBLIC NOTICE



**US Army Corps
of Engineers** ®
New England District
696 Virginia Road
Concord, MA 01742-2751

Comment Period Begins: August 14, 2018
Comment Period Ends: September 14, 2018
File Number: NAE-2018-00910
In Reply Refer To: Michael Hicks
Phone: (978) 318-8157
E-mail: michael.c.hicks@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from the New Hampshire Department of Transportation, P.O. Box 483, Concord, NH 03302 ATTN: Matt Urban (NHDOT Project No. 16304, NH 16 Realignment Project, in Dummer, NH). This work is proposed along an approximate 1.6 mile stretch of RT 16 between Muzzy Hill Road (NH 101A) and Dummer Pond Road. The project is partially Federally-funded and the Federal Highway Administration is the Lead Federal agency. The site coordinates are: Latitude: 44 degrees, 37 minutes, 11.98 seconds, Longitude: 71 degrees, 14 minutes, 37.26 seconds.

The work involves the placement of approximately 6.80 acres of fill and performance of work within waters of the United States in conjunction with the realignment of an approximate 1.6 mile stretch of RT 16 between Muzzy Hill Road (NH 101A) and Dummer Pond Road in Dummer, New Hampshire. This work permanently impact approximately 6.80 acres of waters of the United States, and impact approximately 382 cubic yards within the 100-yr. floodplain. A detailed description and a set of plans of the activity are attached.

The Applicant's project purpose is to address safety concerns due to structural box saturation issues, frost heaving along NH 16 and slope failure along the easterly roadway shoulders in close proximity to the Androscoggin River. The project will also address additional safety concerns related to existing roadway line-of-site within the northern project corridor.

The work is shown on the attached plans entitled, "USGS Site Location Map, Dummer, New Hampshire", dated January 02, 2018, and "Wetland Plans Federal Aid Project, Town of Dummer" (1 - 16), dated October 2017, for a total of seventeen (17) pages.

The project has been designed using the best available measures to avoid and minimize adverse impacts and mitigation for the project will include In Lieu Fee Payment into the New Hampshire Aquatic Resource Fund.

AUTHORITY

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered,

CENAE-R
FILE NO. NAE-2018-00910

including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). This proposed action, will not adversely affect Essential Fish Habitat (EFH).

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that the proposed action will not adversely affect any historic properties.

ENDANGERED SPECIES CONSULTATION

The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, License or Assent from State.
- (X) Permit from Local Wetland Agency or Conservation Commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

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In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Michael Hicks at (978) 318-8157, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

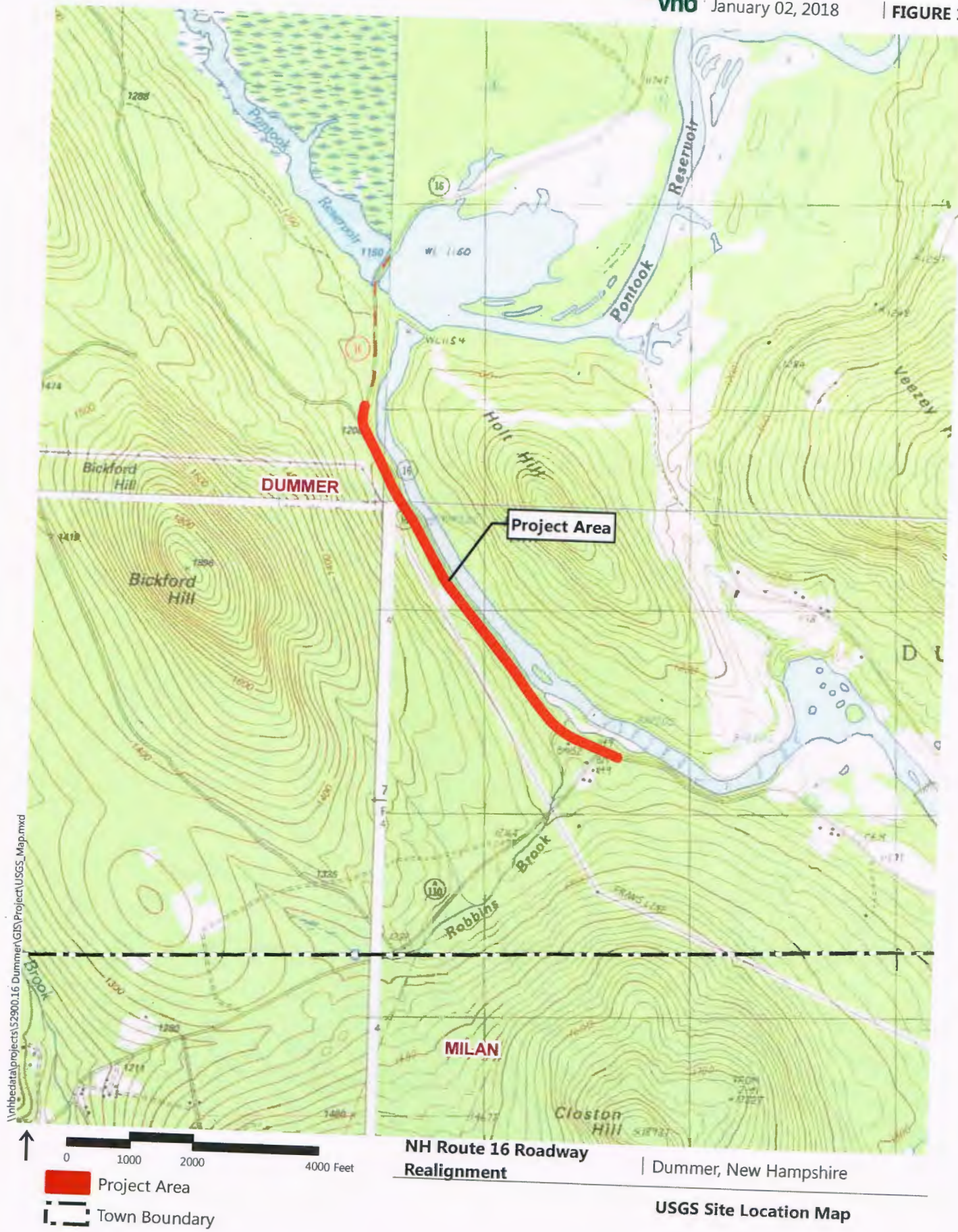
THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.



Robert J. DeSista
Acting Chief
Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Betinna M. Chaisson at (978) 318-8058 or e-mail her at Betinna.M.Chaisson@usace.army.mil. You may also check here () and return this portion of the Public Notice to: Betinna M. Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____
PHONE: _____



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0 1000 2000 4000 Feet

Project Area

Town Boundary

NH Route 16 Roadway Realignment | Dummer, New Hampshire

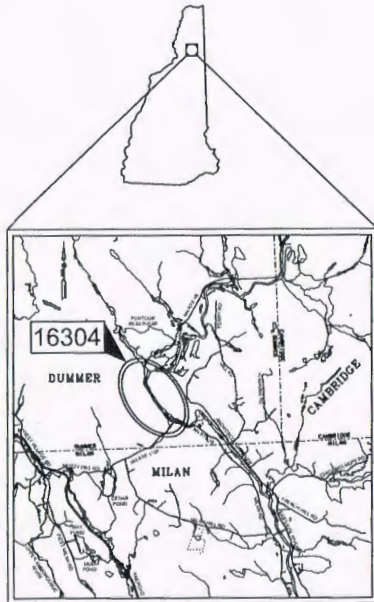
USGS Site Location Map

Source Info

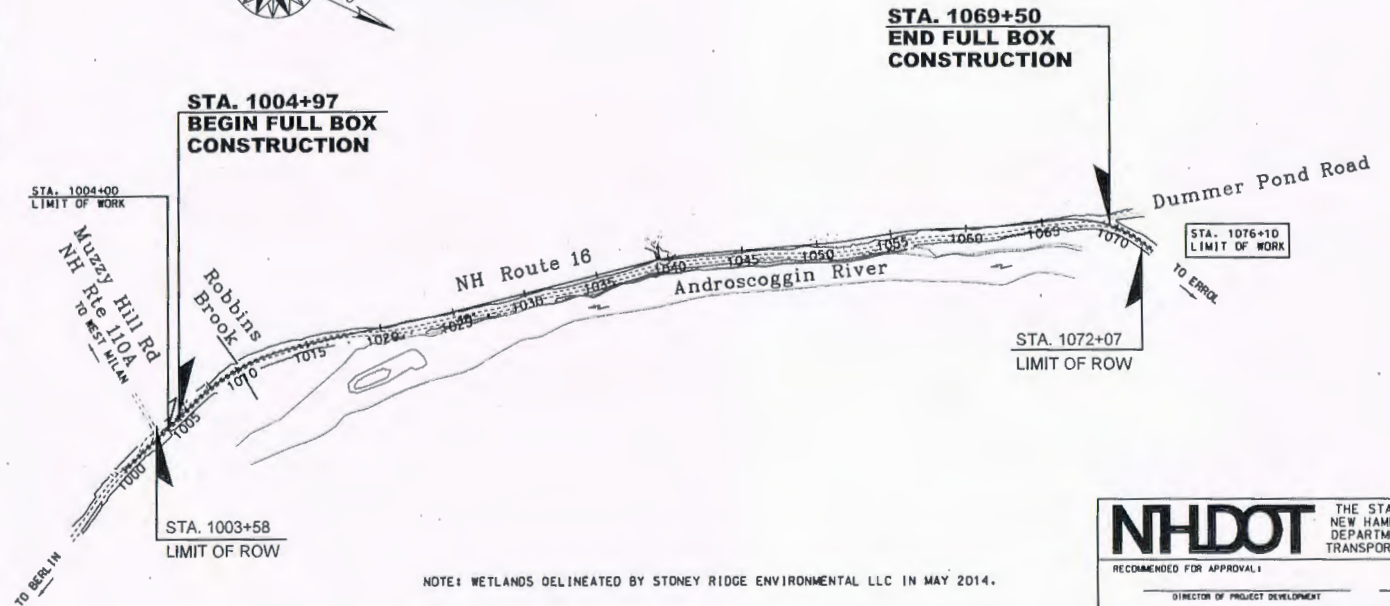
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
WETLANDS PLANS
FEDERAL AID PROJECT

X-A001(231)
N.H. PROJECT NO. 16304
NH ROUTE 16

DESIGN DATA	
AVERAGE DAILY TRAFFIC 20 20	1600
AVERAGE DAILY TRAFFIC 20 40	1300
PERCENT OF TRUCKS	8.3%
DESIGN SPEED	50 MPH
LENGTH OF PROJECT	1.27 MILES



LOCATION MAP
GRAPHIC SCALE



NOTE: WETLANDS DELINEATED BY STONEY RIDGE ENVIRONMENTAL LLC IN MAY 2014.

NH DOT		THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION	
RECOMMENDED FOR APPROVAL:			
_____ DIRECTOR OF PROJECT DEVELOPMENT		_____ DATE	
APPROVED:			
_____ ASSISTANT COMMISSIONER AND CHIEF ENGINEER		_____ DATE	
U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION			
APPROVED:			
_____ DIVISION ADMINISTRATOR		_____ DATE	
FEDERAL PROJECT NO. X-A001(231)	STATE PROJECT NO. 16304	SHEET NO. 1	TOTAL SHEETS 16

INDEX OF SHEETS

- 1 FRONT SHEET
- 2-3 STANDARD SYMBOLS SHEETS
- 4-10 WETLAND IMPACT PLANS
- 11-16 EROSION CONTROL PLANS

TOWN OF DUMMER

COUNTY OF COOS

SCALE: 1:400

FOR CONSTRUCTION AND ALIGNMENT DETAILS - SEE THE CONSTRUCTION PLANS



DRAWN BY: M. DRUDING DATE: OCT. 2017
 CHECKED BY: F. KOCZALKA DATE: OCT. 2017

GENERAL

EDGE OF PAVEMENT TRAVELED WAY	PROPOSED ROADWAY existing roadway (pavement removed outside slope lines)
DRIVEWAYS	(label surface type)
BUILDINGS	(building to be removed) (label house or type of building)
FOUNDATION	(label type)
LEACH FIELD	leach field
BRIDGE CROSSINGS	STREAM OVERPASS
STEPS AND WALK	(label type)
INTERMITTENT WATER COURSE	
SHORE LINE	river/stream pond (label name of water body)
POTENTIAL WET AREA SYMBOL	
BRUSH OR WOODS LINE	
TREES (PLANS)	(deciduous) (coniferous) (stump)
TREE OR STUMP (CROSS-SECTIONS)	(show station, circumference in feet & type)
HEDGE	(label type)
MONITORING WELL	mon
WELL	
FLAG POLE	

ORIGINAL GROUND (TYPICALS)	
ROCK OUTCROP	
ROCK LINE (TYPICALS & SECTIONS ONLY)	
GUARDRAIL (label type)	existing PROPOSED
JERSEY BARRIER	
CURB (LABEL TYPE)	
STONE WALL	
RETAINING WALL (LABEL TYPE)	(points toward retained ground)
FENCE (LABEL TYPE)	
SIGNS	(single post) (double post)
GAS PUMP	
FUEL TANK (ABOVE GROUND)	(label size & type)
STORAGE TANK FILLER CAP	
SEPTIC TANK	
GRAVE	
MAILBOX	
VENT PIPE	
SATELLITE DISH ANTENNA	
PHONE	
GROUND LIGHT/LAMP POST	
BORING LOCATION	
TEST PIT	
INTERSTATE NUMBERED HIGHWAY	
UNITED STATES NUMBERED HIGHWAY	
STATE NUMBERED HIGHWAY	

SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE	PUB22 DELINEATED WETLAND ORDINARY HIGH WATER TOP OF BANK TOP OF BANK & ORDINARY HIGH WATER NORMAL HIGH WATER WIDTH AT BANK FULL PRIME WETLAND PRIME WETLAND 100' BUFFER NON-JURISDICTIONAL DRAINAGE AREA COWARDIN DISTINCTION LINE TIDAL BUFFER ZONE DEVELOPED TIDAL BUFFER ZONE HIGHEST OBSERVABLE TIDE LINE MEAN HIGH WATER MEAN LOW WATER VERNAL POOL SPECIAL AQUATIC SITE REFERENCE LINE WATER FRONT BUFFER NATURAL WOODLAND BUFFER PROTECTED SHORELAND INVASIVE SPECIES LABEL INVASIVE SPECIES
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FLOODPLAIN / FLOODWAY

500 YEAR FLOODPLAIN BOUNDARY	
100 YEAR FLOODPLAIN BOUNDARY	
FLOODWAY	

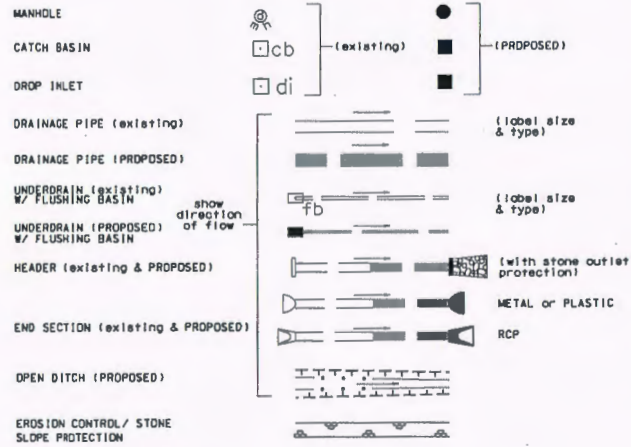
ENGINEERING

CONSTRUCTION BASELINE	
PC, PT, POT (ON CONST BASELINE)	
PI (IN CONSTRUCTION BASELINES)	
INTERSECTION OR EQUATION OF TWO LINES	
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)	
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
CLEARING LINE	
SLOPE LINE	
SLOPE LINE (FILL)	
SLOPE LINE (CUT)	
PROFILES AND CROSS SECTIONS:	
ORIGINAL GROUND ELEVATION (LEFT)	
FINISHED GRADE ELEVATION (RIGHT)	

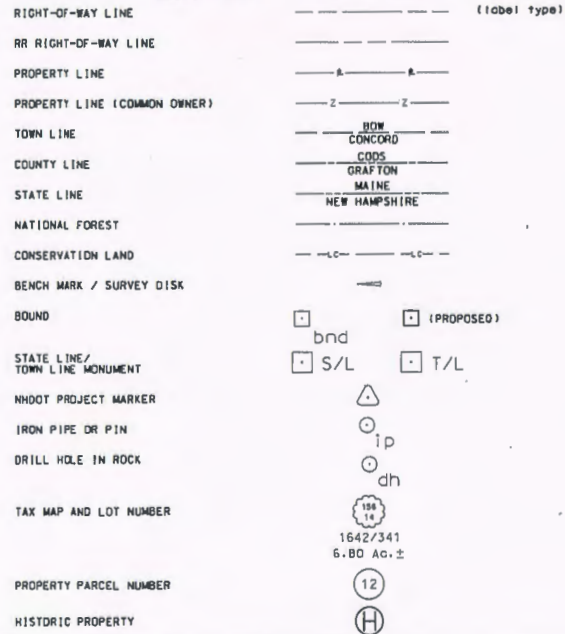
SHEET 1 OF 2

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
STANDARD SYMBOLS			
REVISION DATE	DN	STATE PROJECT NO.	SHEET NO.
11-21-2014	87dymb1_2.dgn	16304	2
		TOTAL SHEETS	16

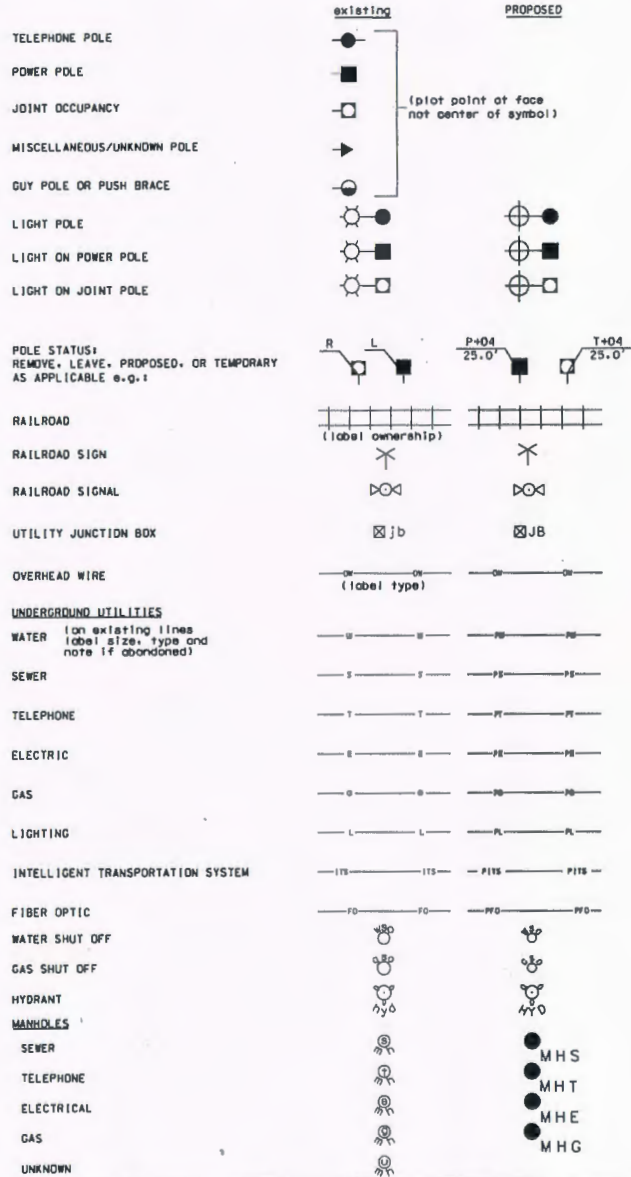
DRAINAGE



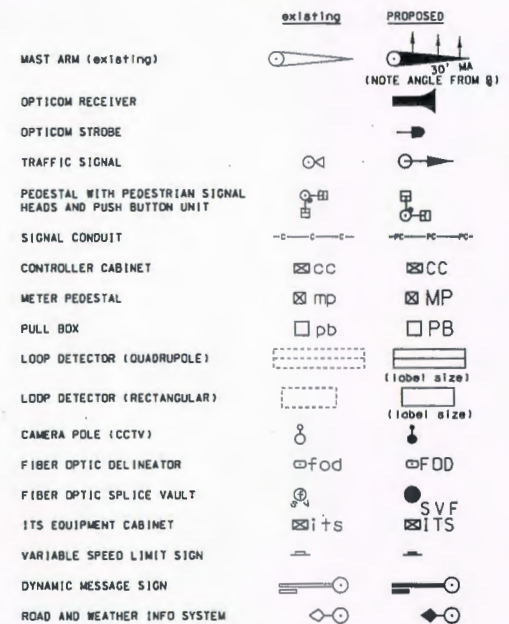
BOUNDARIES / RIGHT-OF-WAY



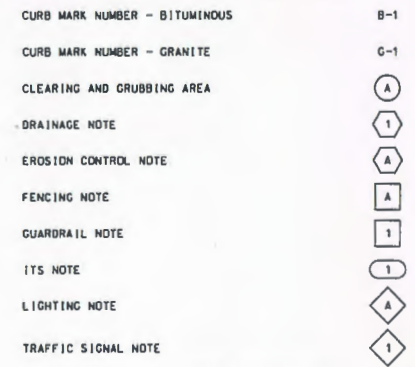
UTILITIES



TRAFFIC SIGNALS / ITS



CONSTRUCTION NOTES



SHEET 2 OF 2

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION & BUREAU OF HIGHWAY DESIGN

STANDARD SYMBOLS

REVISION DATE	BY	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
9-1-2016	stdsymb1_2.dgn	16304	3	16

EROSION CONTROL STRATEGIES

1. ENVIRONMENTAL COMMITMENTS:
 - 1.1. THESE GUIDELINES DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH ANY CONTRACT PROVISIONS, OR APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
 - 1.2. THIS PROJECT WILL BE SUBJECT TO THE US EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER CONSTRUCTION GENERAL PERMIT AS ADMINISTERED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROJECT IS SUBJECT TO REQUIREMENTS IN THE MOST RECENT CONSTRUCTION GENERAL PERMIT (40 CFR 122.26).
 - 1.3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NHDES WETLAND PERMIT, THE US ARMY CORPS OF ENGINEERS PERMIT, WATER QUALITY CERTIFICATION AND THE SPECIAL ATTENTION ITEMS INCLUDED IN THE CONTRACT DOCUMENTS.
 - 1.4. ALL STORM WATER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW HAMPSHIRE STORMWATER MANUAL - VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION (DECEMBER 2008) (BMP MANUAL) AVAILABLE FROM THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES).
 - 1.5. THE CONTRACTOR SHALL COMPLY WITH RSA 485-A:117, AND ALL PUBLISHED NHDES ALTERATION OF TERRAIN ENV-WD 1500 REQUIREMENTS (HTTP://DES.MH.GOV/ORDNANCE/COMMISSIONERS/REGULATIONS/ENR/ENR485A117.MHT).
 - 1.6. THE CONTRACTOR IS DIRECTED TO REVIEW AND COMPLY WITH SECTION 107.1 OF THE CONTRACT AS IT REFERS TO SPILLAGE, AND ALSO WITH REGARDS TO EROSION, POLLUTION, AND TURBIDITY PRECAUTIONS.
 2. STANDARD EROSION CONTROL SEQUENCING APPLICABLE TO ALL CONSTRUCTION PROJECTS:
 - 2.1. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. PERIMETER CONTROLS AND STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AS SHOWN IN THE BMP MANUAL AND AS DIRECTED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED.
 - 2.2. EROSION, SEDIMENTATION CONTROL MEASURES AND INFILTRATION BASINS SHALL BE CLEANED, REPLACED AND AUGMENTED AS NECESSARY TO PREVENT SEDIMENTATION BEYOND PROJECT LIMITS THROUGHOUT THE PROJECT DURATION.
 - 2.3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 645 OF THE NHDOT SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION.
 - 2.4. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - (A) BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - (B) A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - (C) A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED;
 - (D) TEMPORARY SLOPE STABILIZATION CONFORMING TO TABLE 1 HAS BEEN PROPERLY INSTALLED.
 - 2.5. ALL STOCKPILES SHALL BE CONTAINED WITH A PERIMETER CONTROL. IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS, MULCHING WILL BE REQUIRED.
 - 2.6. A WATER TRUCK SHALL BE AVAILABLE TO CONTROL EXCESSIVE DUST AT THE DIRECTION OF THE CONTRACT ADMINISTRATION.
 - 2.7. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN UNTIL THE AREA HAS BEEN PERMANENTLY STABILIZED.
 - 2.8. CONSTRUCTION PERFORMED ANY TIME BETWEEN NOVEMBER 30th AND MAY 1st OF ANY YEAR SHALL BE CONSIDERED WINTER CONSTRUCTION AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - (A) ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED IN ACCORDANCE WITH TABLE 1.
 - (B) ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15th, OR WHICH ARE DISTURBED AFTER OCTOBER 15th, SHALL BE STABILIZED TEMPORARILY WITH STONE OR IN ACCORDANCE WITH TABLE 1.
 - (C) AFTER NOVEMBER 30th (INCOMPLETE ROAD SURFACES, WHERE WORK HAS STOPPED FOR THE SEASON, SHALL BE PROTECTED IN ACCORDANCE WITH TABLE 1.
 - (D) WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE PROJECT IS WITHOUT STABILIZATION AT ONE TIME, UNLESS A WINTER CONSTRUCTION PLAN HAS BEEN APPROVED BY NHDOT THAT MEETS THE REQUIREMENTS OF ENV-WD 1505.02 AND ENV-WD 1505.05.
 - (E) A SWPPP AMENDMENT SHALL BE SUBMITTED TO THE DEPARTMENT, FOR APPROVAL, ADDRESSING COLD WEATHER STABILIZATION (ENV-WD 1505.05) AND INCLUDING THE REQUIREMENTS OF NO LESS THAN 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK SCHEDULED AFTER NOVEMBER 30th.
- GENERAL CONSTRUCTION PLANNING AND SELECTION OF STRATEGIES TO CONTROL EROSION AND SEDIMENT ON HIGHWAY CONSTRUCTION PROJECTS**
3. PLAN ACTIVITIES TO ACCOUNT FOR SENSITIVE SITE CONDITIONS:
 - 3.1. CLEARLY IDENTIFY AREAS TO BE PROTECTED IN THE FIELD AND PROVIDE CONSTRUCTION BARRIERS TO PREVENT TRAFFICKING OUTSIDE OF WORK AREAS.
 - 3.2. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS.
 - 3.3. PROTECT AND MAXIMIZE EXISTING NATIVE VEGETATION AND NATURAL FOREST BUFFERS BETWEEN CONSTRUCTION ACTIVITY AND SENSITIVE AREAS.
 - 3.4. WHEN WORK IS PERFORMED IN AN AREA WITH HIGH WATER FLOW VELOCITY, STREAM FLOW DIVERSION METHODS SHALL BE IMPLEMENTED PRIOR TO ANY EXCAVATION OR FILLING.
 - 3.5. WHEN WORK IS PERFORMED WITHIN 50 FEET OF SURFACE WATERS (WETLAND, OPEN WATER OR FLOWING WATER), PERIMETER CONTROL SHALL BE ENHANCED CONSISTENT WITH SECTION 2.1.2.1, OF THE 2012 NPDES CONSTRUCTION GENERAL PERMIT.
 4. MINIMIZE THE AMOUNT OF EXPOSED SOIL:
 - 4.1. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DURATION AND AREA OF EXPOSED SOILS. MINIMIZE THE AREA OF EXPOSED SOIL AT ANY ONE TIME. PHASING SHALL BE USED TO REDUCE THE AMOUNT AND DURATION OF SOIL EXPOSED TO THE ELEMENTS AND VEHICLE TRAFFICKING.
 - 4.2. UTILIZE TEMPORARY MULCHING OR PROVIDE ALTERNATE TEMPORARY STABILIZATION ON EXPOSED SOILS IN ACCORDANCE WITH TABLE 1.
 - 4.3. THE MAXIMUM AMOUNT OF DISTURBED EARTH SHALL NOT EXCEED A TOTAL OF 5 ACRES FROM MAY 1st THROUGH NOVEMBER 30th, OR EXCEED ONE ACRE DURING WINTER MONTHS, UNLESS THE CONTRACTOR DEMONSTRATES TO THE DEPARTMENT THAT THE ADDITIONAL AREA OF DISTURBANCE IS NECESSARY TO MEET THE CONTRACTOR'S CRITICAL PATH METHOD SCHEDULE (CPM), AND THE CONTRACTOR HAS ADEQUATE RESOURCES AVAILABLE TO ENSURE THAT ENVIRONMENTAL COMMITMENTS WILL BE MET.
 5. CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT:
 - 5.1. DIVERT OFF-SITE RUNOFF OR CLEAN WATER AWAY FROM THE CONSTRUCTION ACTIVITIES TO REDUCE THE VOLUME THAT NEEDS TO BE TREATED ON-SITE.
 - 5.2. DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM DISTURBED AREAS, SLOPES, AND AROUND ACTIVE WORK AREAS AND TO A STABILIZED OUTLET LOCATION.
 - 5.3. CONSTRUCT IMPERMEABLE BARRIERS AS NECESSARY TO COLLECT OR DIVERT CONCENTRATED FLOWS FROM WORK OR DISTURBED AREAS.
 - 5.4. STABILIZE, TO APPROPRIATE ANTICIPATED VELOCITIES, CONVEYANCE CHANNELS OR PUMPING SYSTEMS NEEDED TO CONVEY CONSTRUCTION STORMWATER TO BASINS AND DISCHARGE LOCATIONS PRIOR TO USE.
 - 5.5. DIVERT OFF-SITE WATER THROUGH THE PROJECT IN AN APPROPRIATE MANNER SO NOT TO DISTURB THE UPSTREAM OR DOWNSTREAM SOILS, VEGETATION OR HYDROLOGY BEYOND THE PERMITTED AREA.
 6. PROTECT SLOPES:
 - 6.1. INTERCEPT AND DIVERT STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM UNPROTECTED AND NEWLY ESTABLISHED AREAS AND SLOPES TO A STABILIZED OUTLET OR CONVEYANCE.
 - 6.2. CONSIDER HOW GROUNDWATER SEEPAGE ON CUT SLOPES MAY IMPACT SOIL STABILITY AND INCORPORATE APPROPRIATE MEASURES TO MINIMIZE EROSION.
 - 6.3. DIVERT STORMWATER DOWN THE SLOPE IN A STABILIZED CHANNEL OR SLOPE DRAIN.
 - 6.4. THE OUTER FACE OF THE FILL SLOPE SHOULD BE IN A LOOSE RUFFLED CONDITION PRIOR TO TURF ESTABLISHMENT. TOPSOIL OR HUMUS LAYERS SHALL BE TRACKED UP AND DOWN THE SLOPE, DISKED, HARROWED, DRAGGED WITH A CHAIN OR MAT, MACHINE-RAKED, OR HAND-WORKED TO PRODUCE A RUFFLED SURFACE.
 7. ESTABLISH STABILIZED CONSTRUCTION EXITS:
 - 7.1. INSTALL AND MAINTAIN CONSTRUCTION EXITS, ANYWHERE TRAFFIC LEAVES A CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY.
 - 7.2. SWEEP ALL CONSTRUCTION RELATED DEBRIS AND SOIL FROM THE ADJACENT PAVED ROADWAYS AS NECESSARY.
 8. PROTECT STORM DRAIN INLETS:
 - 8.1. DIVERT SEDIMENT LADEN WATER AWAY FROM INLET STRUCTURES TO THE EXTENT POSSIBLE.
 - 8.2. INSTALL SEDIMENT BARRIERS AND SEDIMENT TRAPS AT INLETS TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
 - 8.3. CLEAN CATCH BASINS, DRAINAGE PIPES, AND CULVERTS IF SIGNIFICANT SEDIMENT IS DEPOSITED.
 - 8.4. DROP INLET SEDIMENT BARRIERS SHOULD NEVER BE USED AS THE PRIMARY MEANS OF SEDIMENT CONTROL, AND SHOULD ONLY BE USED TO PROVIDE AN ADDITIONAL LEVEL OF PROTECTION TO STRUCTURES AND DOWN-GRADIENT SENSITIVE RECEPTORS.
 9. SOIL STABILIZATION:
 - 9.1. WITHIN THREE DAYS OF THE LAST ACTIVITY IN AN AREA, ALL EXPOSED SOIL AREAS, WHERE CONSTRUCTION ACTIVITIES ARE COMPLETE, SHALL BE STABILIZED.
 - 9.2. IN ALL AREAS, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED IN ACCORDANCE WITH THE STABILIZATION REQUIREMENTS (SECTION 2.2) OF THE 2012 CDP. (SEE SECTION 1 FOR GUIDANCE TO THE SELECTION OF TEMPORARY SOIL STABILIZATION MEASURES.)
 - 9.3. EROSION CONTROL SEED MIX SHALL BE SOWN IN ALL INACTIVE CONSTRUCTION AREAS THAT WILL NOT BE PERMANENTLY SEEDED WITHIN TWO WEEKS OF DISTURBANCE AND PRIOR TO SEPTEMBER 15, OF ANY GIVEN YEAR, IN ORDER TO ACHIEVE VEGETATIVE STABILIZATION PRIOR TO THE END OF THE GROWING SEASON.
 - 9.4. SOIL TACKIFIERS MAY BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND REAPPLIED AS NECESSARY TO MINIMIZE SOIL AND MULCH LOSS UNTIL PERMANENT VEGETATION IS ESTABLISHED.
 10. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES:
 - 10.1. TEMPORARY SEDIMENT BASINS (CDP-SECTION 2.1.3.2) OR SEDIMENT TRAPS (ENV-WD 1506.10) SHALL BE SIZED TO RETAIN, ON-SITE, THE VOLUME OF A 2-YEAR 24-HOUR STORM EVENT FOR ANY AREA OF DISTURBANCE OR 3,000 CUBIC FEET OF STORMWATER RUNOFF PER ACRE OF DISTURBANCE, WHICHEVER IS GREATER. TEMPORARY SEDIMENT BASINS SHOULD BE SIZED TO RETAIN GREATER THAN THE DESIGN DISTURBANCE SHALL BE SIZED TO ALSO CONTROL STORMWATER RUNOFF FROM A 10-YEAR 24-HOUR STORM EVENT. ON-SITE RETENTION OF THE 10-YEAR 24-HOUR EVENT IS NOT REQUIRED.
 - 10.2. CONSTRUCT AND STABILIZE DEWATERING INFILTRATION BASINS PRIOR TO ANY EXCAVATION THAT MAY REQUIRE DEWATERING.
 - 10.3. TEMPORARY SEDIMENT BASINS OR TRAPS SHALL BE PLACED AND STABILIZED AT LOCATIONS WHERE CONCENTRATED FLOW (CHANNELS AND PIPES) DISCHARGE TO THE SURROUNDING ENVIRONMENT FROM AREAS OF UNSTABILIZED EARTH DISTURBING ACTIVITIES.

11. ADDITIONAL EROSION AND SEDIMENT CONTROL GENERAL PRACTICES:
 - 11.1. USE TEMPORARY MULCHING, PERMANENT MULCHING, TEMPORARY VEGETATIVE COVER, AND PERMANENT VEGETATIVE COVER TO REDUCE THE NEED FOR DUST CONTROL. USE MECHANICAL SWEEPERS ON PAVED SURFACES WHERE NECESSARY TO PREVENT DUST BUILDUP. APPLY WATER, OR OTHER DUST INHIBITING AGENTS OR TACKIFIERS, AS APPROVED BY THE NHDES.
 - 11.2. ALL STOCKPILES SHALL BE CONTAINED WITH TEMPORARY PERIMETER CONTROLS. INACTIVE SOIL STOCKPILES SHOULD BE PROTECTED WITH SOIL STABILIZATION MEASURES. TEMPORARY EROSION CONTROL SEED MIX AND MULCH, SOIL BINDER, OR COVERED WITH ANCHORED TAPES.
 - 11.3. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED IN ACCORDANCE WITH SECTION 645 OF NHDOT SPECIFICATIONS, WEEKLY AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.25 IN. OF RAIN PER 24-HOUR PERIOD. EROSION AND SEDIMENT CONTROL MEASURES WILL ALSO BE INSPECTED IN ACCORDANCE WITH THE GUIDANCE FROM THE NHDES CONTAINED WITHIN THE CONTRACT PROPOSAL, AND THE EPA CONSTRUCTION GENERAL PERMIT.
 - 11.4. THE CONTRACTOR SHOULD INSTALL STORM DRAIN INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING A STORM DRAINAGE SYSTEM PRIOR TO THE PERMANENT STABILIZATION OF THE CONTRIBUTING DISTURBED AREA.
 - 11.5. PERMANENT STABILIZATION MEASURES WILL BE CONSTRUCTED AND MAINTAINED IN LOCATIONS AS SHOWN ON THE CONSTRUCTION PLANS TO STABILIZE AREAS. VEGETATIVE STABILIZATION SHALL NOT BE CONSIDERED PERMANENTLY STABILIZED UNTIL VEGETATIVE COVERS AT LEAST 85% OF THE DISTURBED AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL FOR ONE YEAR AFTER PROJECT COMPLETION.
 - 11.6. CATCH BASINS CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT ENTER ANY EXISTING CATCH BASINS DURING CONSTRUCTION. THE CONTRACTOR SHALL PLACE TEMPORARY STONE INLET PROTECTION OVER INLETS IN AREAS OF SOIL DISTURBANCE THAT ARE SUBJECT TO SEDIMENT CONTAMINATION.
 - 11.7. TEMPORARY AND PERMANENT DITCHES SHALL BE CONSTRUCTED, STABILIZED AND MAINTAINED IN A MANNER THAT WILL MINIMIZE SCOUR. TEMPORARY AND PERMANENT DITCHES SHALL BE DIRECTED TO DRAIN TO SEDIMENT BASINS OR STORM WATER COLLECTION AREAS.
 - 11.8. WINTER EXCAVATION AND EARTHWORK ACTIVITIES NEED TO BE LIMITED IN EXTENT AND DURATION, TO MINIMIZE POTENTIAL EROSION AND SEDIMENTATION IMPACTS. THE AREA OF EXPOSED SOIL SHALL BE LIMITED TO ONE ACRE, OR THAT WHICH CAN BE STABILIZED AT THE END OF EACH DAY UNLESS A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY THE DEPARTMENT.
 - 11.9. CHANNEL PROTECTION MEASURES SHALL BE SUPPLEMENTED WITH PERIMETER CONTROL MEASURES WHEN THE DITCH LINES OCCUR AT THE BOTTOM OF LONG FILL SLOPES. THE PERIMETER CONTROLS SHALL BE INSTALLED ON THE FILL SLOPE TO MINIMIZE THE POTENTIAL FOR FILL SLOPE SEDIMENT DEPOSITS IN THE DITCH LINE.

BEST MANAGEMENT PRACTICES (BMP) BASED ON AMOUNT OF OPEN CONSTRUCTION AREA

12. STRATEGIES SPECIFIC TO OPEN AREAS LESS THAN 5 ACRES:
 - 12.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485A:117 AND ENV-WD 1500:1 ALTERATION OF TERRAIN FOR CONSTRUCTION AND USE ALL CONVENTIONAL BMP STRATEGIES.
 - 12.2. SLOPES STEEPER THAN 3:1 WILL RECEIVE TURF ESTABLISHMENT WITH MATTING.
 - 12.3. SLOPES 3:1 OR FLATTER WILL RECEIVE TURF ESTABLISHMENT ALONE.
 - 12.4. AREAS WHERE HALL ROADS ARE CONSTRUCTED AND STORMWATER CANNOT BE TREATED THE DEPARTMENT WILL CONSIDER INFILTRATION.
 - 12.5. FOR HALL ROADS ADJACENT TO SENSITIVE ENVIRONMENTAL AREAS OR STEEPER THAN 3%, THE DEPARTMENT WILL CONSIDER USING EROSION STONE, CRUSHED GRAVEL, OR CRUSHED STONE BASE TO HELP MINIMIZE EROSION ISSUES.
 - 12.6. ALL AREAS THAT CAN BE STABILIZED SHALL BE STABILIZED PRIOR TO OPENING UP NEW TERRITORY.
 - 12.7. DETENTION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE A 2 YEAR STORM EVENT.
13. STRATEGIES SPECIFIC TO OPEN AREAS BETWEEN 5 AND 10 ACRES:
 - 13.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485A:117 AND ENV-WD 1500 ALTERATION OF TERRAIN AND SHALL USE CONVENTIONAL BMP STRATEGIES AND ALL TREATMENT OPTIONS USED FOR UNDER 5 ACRES WILL BE UTILIZED.
 - 13.2. DETENTION BASINS WILL BE CONSTRUCTED TO ACCOMMODATE THE 2-YEAR 24-HOUR STORM EVENT AND CONTROL A 10-YEAR 24-HOUR STORM EVENT.
 - 13.3. SLOPES STEEPER THAN 3:1 WILL RECEIVE TURF ESTABLISHMENT WITH MATTING OR OTHER TEMPORARY SOIL STABILIZATION MEASURES DETAILED IN TABLE 1. THE CONTRACTOR MAY ALSO CONSIDER A SOIL BINDER IN ACCORDANCE WITH THE NHDES APPROVALS OR REGULATIONS. OTHER ALTERNATIVE MEASURES, SUCH AS BONDED FIBER MATRICES (BFMS) OR FLEXIBLE GROWTH MEDIUMS (FGMS) MAY BE UTILIZED, IF MEETING THE NHDES APPROVALS AND REGULATIONS.
 - 13.4. SLOPES 3:1 OR FLATTER WILL RECEIVE TURF ESTABLISHMENT, AND OTHER TEMPORARY SOIL STABILIZATION MEASURES DETAILED IN TABLE 1. THE CONTRACTOR MAY ALSO CONSIDER A SOIL BINDER IN ACCORDANCE WITH THE NHDES APPROVALS OR REGULATIONS.
14. STRATEGIES SPECIFIC TO OPEN AREAS OVER 10 ACRES:
 - 14.1. THE CONTRACTOR SHALL COMPLY WITH RSA 485A:117 AND ENV-WD 1500 ALTERATION OF TERRAIN AND SHALL USE CONVENTIONAL BMP STRATEGIES AND ALL TREATMENT OPTIONS USED FOR UNDER 5 ACRES AND BETWEEN 5 AND 10 ACRES WILL BE UTILIZED.
 - 14.2. THE DEPARTMENT ANTICIPATES THAT SOIL BINDERS WILL BE NEEDED ON ALL SLOPES STEEPER THAN 3:1, IN ORDER TO MINIMIZE EROSION AND REDUCE THE AMOUNT OF SEDIMENT IN THE STORMWATER TREATMENT BASINS.
 - 14.3. THE CONTRACTOR WILL BE REQUIRED TO HAVE AN APPROVED DESIGN IN ACCORDANCE WITH ENV-WD 1506.12 FOR AN ACTIVE FLOCCULANT TREATMENT SYSTEM TO TREAT AND RELEASE WATER CAPTURED IN STORM WATER BASINS. THE CONTRACTOR SHALL ALSO RETAIN THE SERVICES OF AN ENVIRONMENTAL CONSULTANT WHO HAS DEMONSTRATED EXPERIENCE IN THE DESIGN OF FLOCCULANT TREATMENT SYSTEMS. THE CONSULTANT WILL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION AND MONITORING OF THE SYSTEM.

TABLE 1
GUIDANCE ON SELECTING TEMPORARY SOIL STABILIZATION MEASURES

APPLICATION AREAS	DRY MULCH METHODS				HYDRAULICALLY APPLIED MULCHES ¹				ROLLED EROSION CONTROL BLANKETS ²			
	HMT	WC	SO	CB	HM	SMM	BFM	FRM	SNSB	DNSB	DNSCB	DNCB
SLOPES¹												
STEEPER THAN 2:1	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES
2:1 SLOPE	YES ³	YES ³	YES	YES	NO	NO	NO	YES	YES	NO	YES	YES
3:1 SLOPE	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO
4:1 SLOPE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
WINTER STABILIZATION	4*/AC	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES
CHANNELS												
LOW FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES
HIGH FLOW CHANNELS	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES

ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE	ABBREV.	STABILIZATION MEASURE
HMT	HAY MULCH & TACK	HM	HYDRAULIC MULCH	SNSB	SINGLE NET STRAW BLANKET
WC	WOOD CHIPS	SMM	STABILIZED MULCH MATRIX	DNSB	DOUBLE NET STRAW BLANKET
SO	STUMP GRINDINGS	BFM	BONDED FIBER MATRIX	DNSCB	2 NET STRAW-COCOENUT BLANKET
CB	COMPOST BLANKET	FRM	FIBER REINFORCED MEDIUM	DNCB	2 NET COCONUT BLANKET

- NOTES:
1. ALL SLOPE STABILIZATION OPTIONS ASSUME A SLOPE LENGTH ≤ 10 TIMES THE HORIZONTAL DISTANCE COMPONENT OF THE SLOPE, IN FEET.
 2. PRODUCTS WITHIN PARENTHESIZED (IPM) SHALL NOT BE APPLIED DIRECTLY TO OR WITHIN 100 FEET OF ANY SURFACE WATER WITHOUT PRIOR WRITTEN APPROVAL FROM THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES.
 3. ALL EROSION CONTROL BLANKETS SHALL BE MADE WITH WILDLIFE FRIENDLY BIODEGRADABLE NETTING.

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

WETLAND IMPACT PLANS

REVISION DATE	DN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
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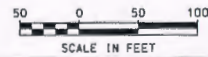
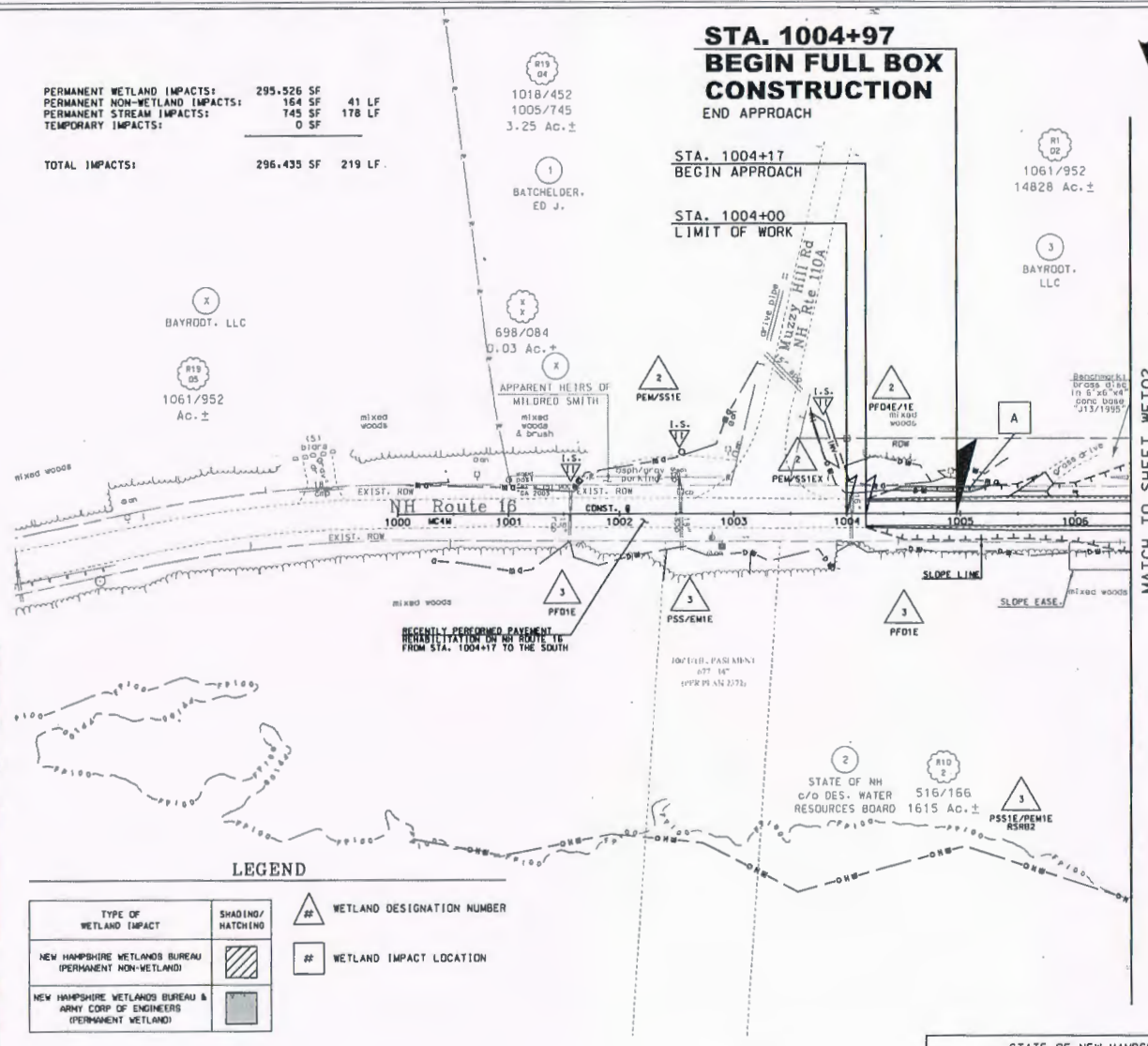
REVISIONS AFTER PROPOSAL
 STATION
 DATE
 NUMBER
 DESCRIPTION
 AS BUILT DETAILS
 DATE 7/2/2019
 DATE 1/2/2017
 DATE 1/2/2017
 DATE 1/2/2017
 VHS TEAM
 VHS DESIGNER
 VHS CHECKED
 VHS PROJECT MANAGER
 VHS AS BUILT DETAILS

WETLAND IMPACT SUMMARY						
LOCATION	CLASS CODE	WETLAND ID#	AREA IMPACTS			
			PERMANENT			
			N.H.W.B. (NON-WETLAND)		N.H.W.B. & A.C.O.E. (WETLAND)	
		SF	LF	SF	LF	
A	PEM/SS1EX	2			302	
B	PF01E	3			468	
C	PEM1EX	2			2042	
D	PF04E/1E	2			1004	
E	PSS/EM1E	3			890	
F	PEM/SS1F	3			778	
G	PF04E/1E	2			375	
H	R3UB1 (BANK)	2	164	41		20
I	R3UB1 (BED)	2			173	
J	PEM1EX	2			4220	
K	PF04E/1E	2			1396	
L	PF01E	3			77	
M	PF04E/1E	1			29358	
N	PEM1EX	1			13760	
O	PSS/EM1E	3			238	
P	PF04E/1E	1			46578	
Q	PF04E/1E	1			1273	
R	PEM1EX	1			1686	
S	PSS/EM1E	3			58	
T	PF04E/1E	1			28139	
U	PEM1EX	1			829	
V	PF04E/1E	1			121354	
W	R4SB4 INTERMITTENT CHANNEL	1			427	145
X	PEM1EX	1			1003	
Y	PSS/EM1E	3			88	
Z	PEM1EX	1			1945	
AA	PSS/EM1E	3			308	
AB	PEM1EX	1			3728	
AC	PSS/EM1E	3			71	
AD	PSS/EM1E	3			200	
AE	PEM1EX	1			6779	
AF	PSS/EM1E	3			595	
AG	PF04E/1E	1			25985	
AH	R4SB5 INTERMITTENT CHANNEL	1			135	13

* WETLAND ID FOLLOWS STONEY RIDGE ENVIRONMENTAL, JUNE 2014 15RE #14-0117

WETLAND CLASSIFICATION CODES	
PEM/SS1E	PALUSTRINE, EMERGENT, PERSISTENT, SEASONALLY FLOODED/SATURATED AND PALUSTRINE, SCRUB-SHRUB, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED
PF01E	PALUSTRINE, FORESTED, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED
PF04E/1E	PALUSTRINE, FORESTED, NEEDLE-LEAVED EVERGREEN, SEASONALLY FLOODED/SATURATED AND PALUSTRINE, FORESTED, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED
PEM/SS1F	PALUSTRINE, EMERGENT, PERSISTENT, SEMIPERMANENTLY FLOODED AND PALUSTRINE, SCRUB-SHRUB, BROAD-LEAVED DECIDUOUS, SEMIPERMANENTLY FLOODED
PSS/EM1E	PALUSTRINE, SCRUB-SHRUB, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED AND PALUSTRINE, EMERGENT, PERSISTENT, SEASONALLY FLOODED/SATURATED
PEM1EX	PALUSTRINE, EMERGENT, PERSISTENT, SEASONALLY FLOODED/SATURATED, EXCAVATED
PEM/SS1EX	PALUSTRINE, EMERGENT, PERSISTENT, SEASONALLY FLOODED/SATURATED, EXCAVATED AND PALUSTRINE, SCRUB-SHRUB, BROAD-LEAVED DECIDUOUS, SEASONALLY FLOODED/SATURATED, EXCAVATED
R3RB2	RIVERINE, UPPER PERENNIAL, ROCK BOTTOM, RUBBLE
R3UB1	RIVERINE, UPPER PERENNIAL, UNCONSOLIDATED BOTTOM, COBBLE-GRAVEL
R3UB3	RIVERINE, UPPER PERENNIAL, UNCONSOLIDATED BOTTOM, MUD
R4SB3	RIVERINE, INTERMITTENT, STREAMBED, COBBLE-GRAVEL
R4SB4	RIVERINE, INTERMITTENT, STREAMBED, SAND

PERMANENT WETLAND IMPACTS: 295,526 SF
 PERMANENT NON-WETLAND IMPACTS: 164 SF
 PERMANENT STREAM IMPACTS: 745 SF
 TEMPORARY IMPACTS: 0 SF
TOTAL IMPACTS: 296,435 SF 219 LF

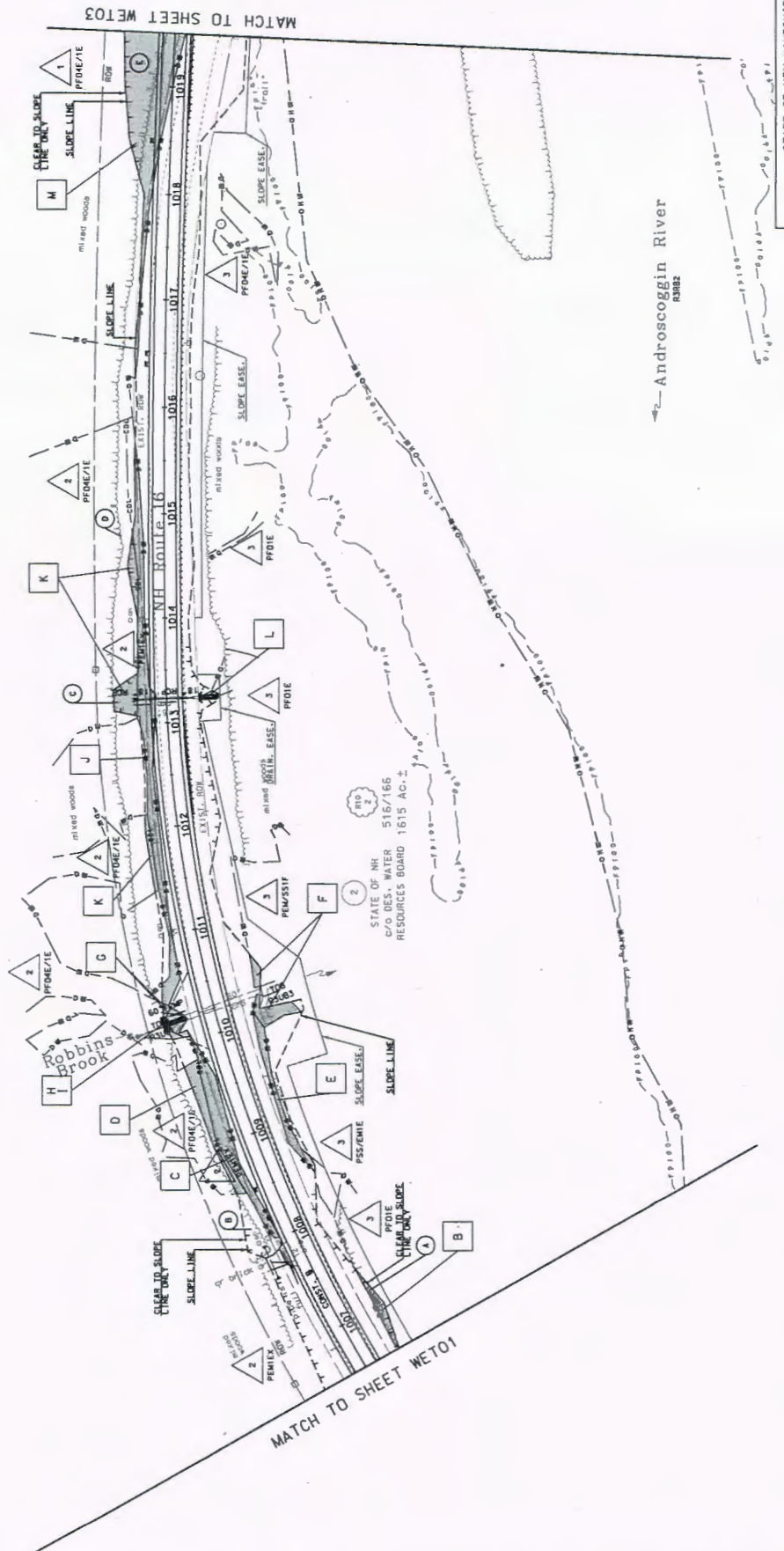


DATE PLOTTED	VHB PROJECT NO.	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/4/2018	52900.16	W6T1	16304#01_P10ns.dgn	16304	5	16

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
WETLAND IMPACT PLANS



3 BAYROOT, LLC 14828 AC.±
 10517/952
 1150/1150



RID 2
 STATE OF NH 516/166
 C/O DES. WATER RESOURCES BOARD 1615 AC.±



STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

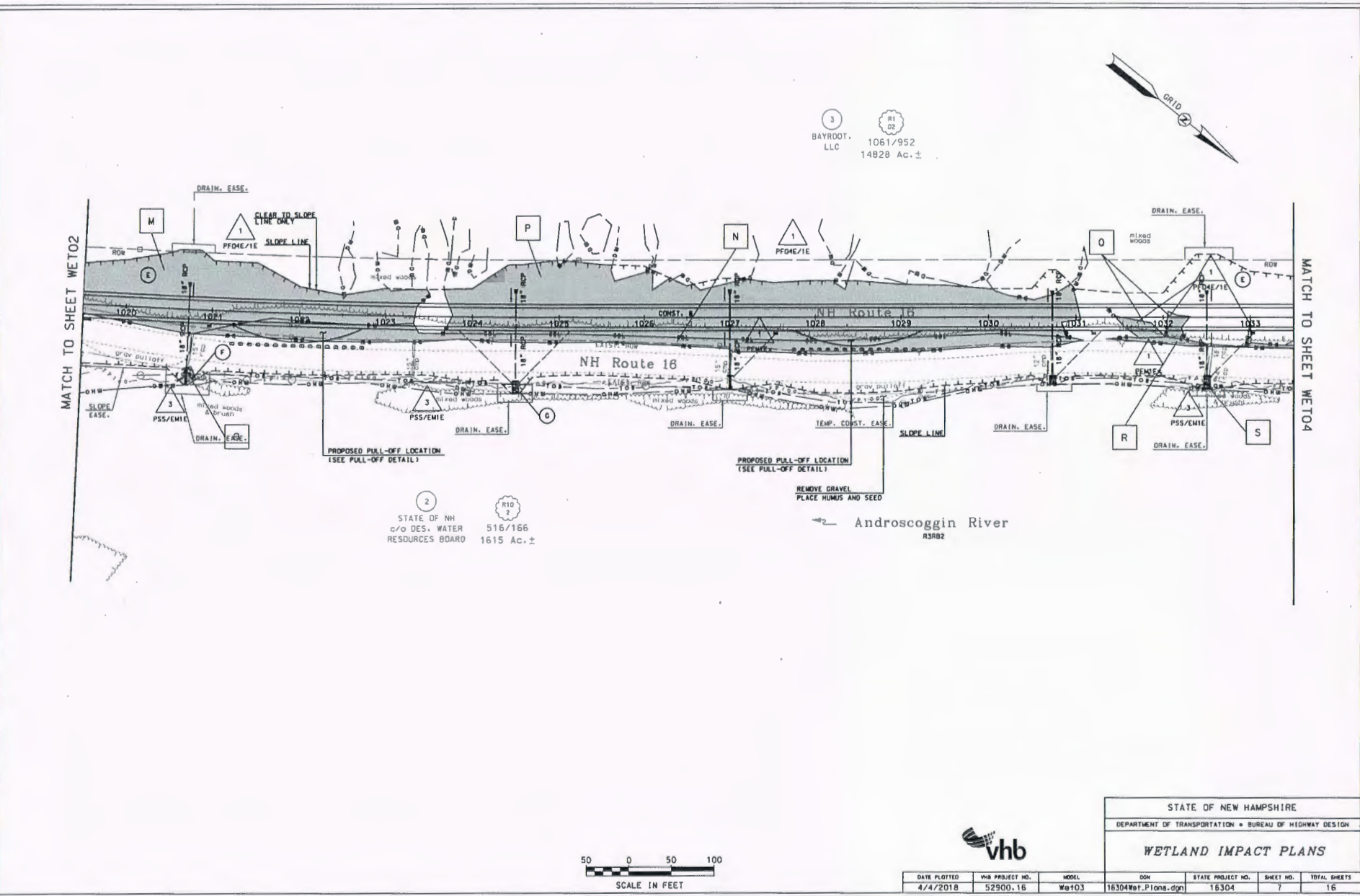
WETLAND IMPACT PLANS

DATE PLOTTED	4/21/2018	DATE PROJECT NO.	52500-16	SHEET NO.	6	TOTAL SHEETS	16
PROJECT NO.	16304NH-2100-001	CONTRACT NO.	16304	PROJECT NAME			

NO.	DATE	DESCRIPTION
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2	1/20/17	FOR DESIGN
3	1/20/17	FOR DESIGN
4	1/20/17	FOR DESIGN

AS BUILT DETAILS

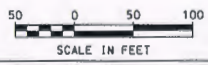
FOR PROCESSED	DATE	BY	DATE	FOR	DATE	BY	DATE
AS BUILT DETAILS							



3 BAYROOT, LLC 1061/952 14828 Ac.±

2 STATE OF NH c/o DES. WATER RESOURCES BOARD 516/166 1615 Ac.±

Androscoggin River R3R82



STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

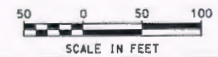
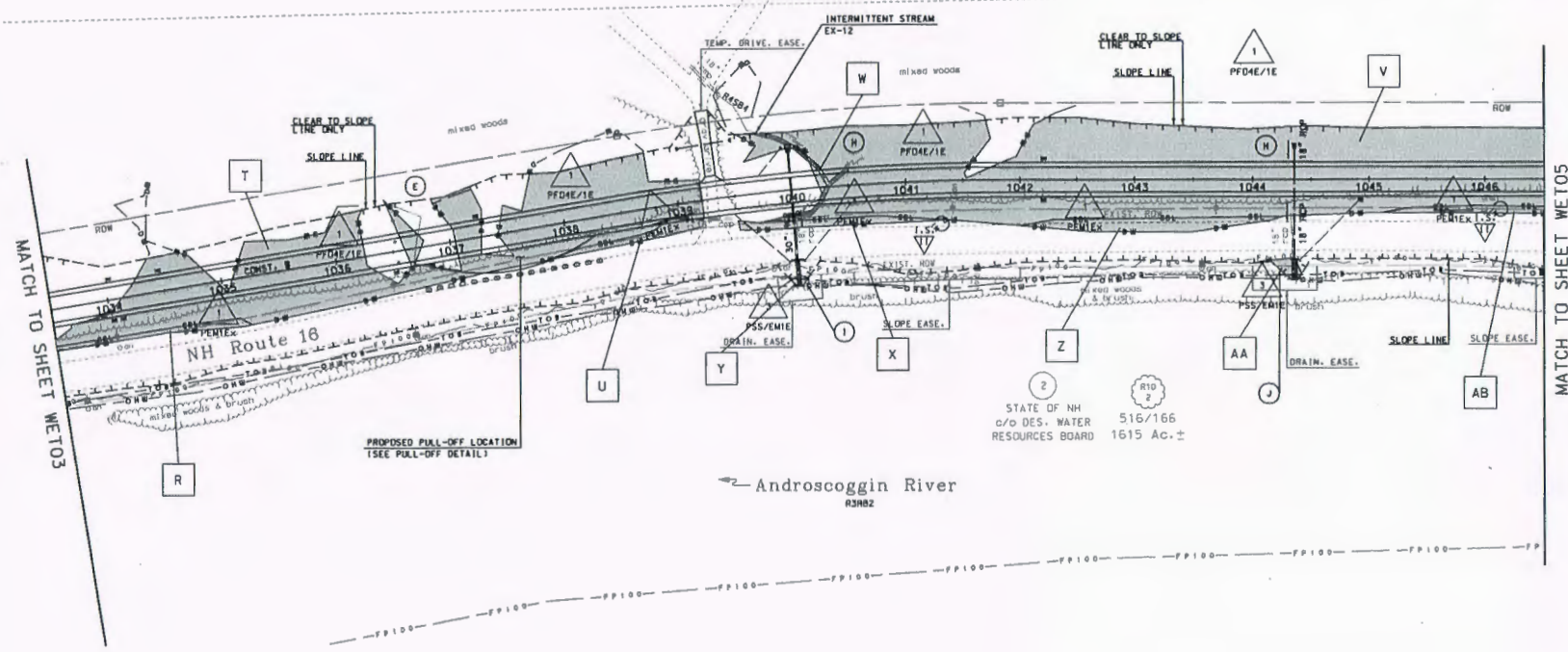
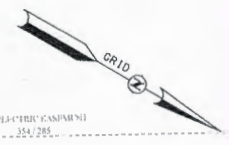
WETLAND IMPACT PLANS

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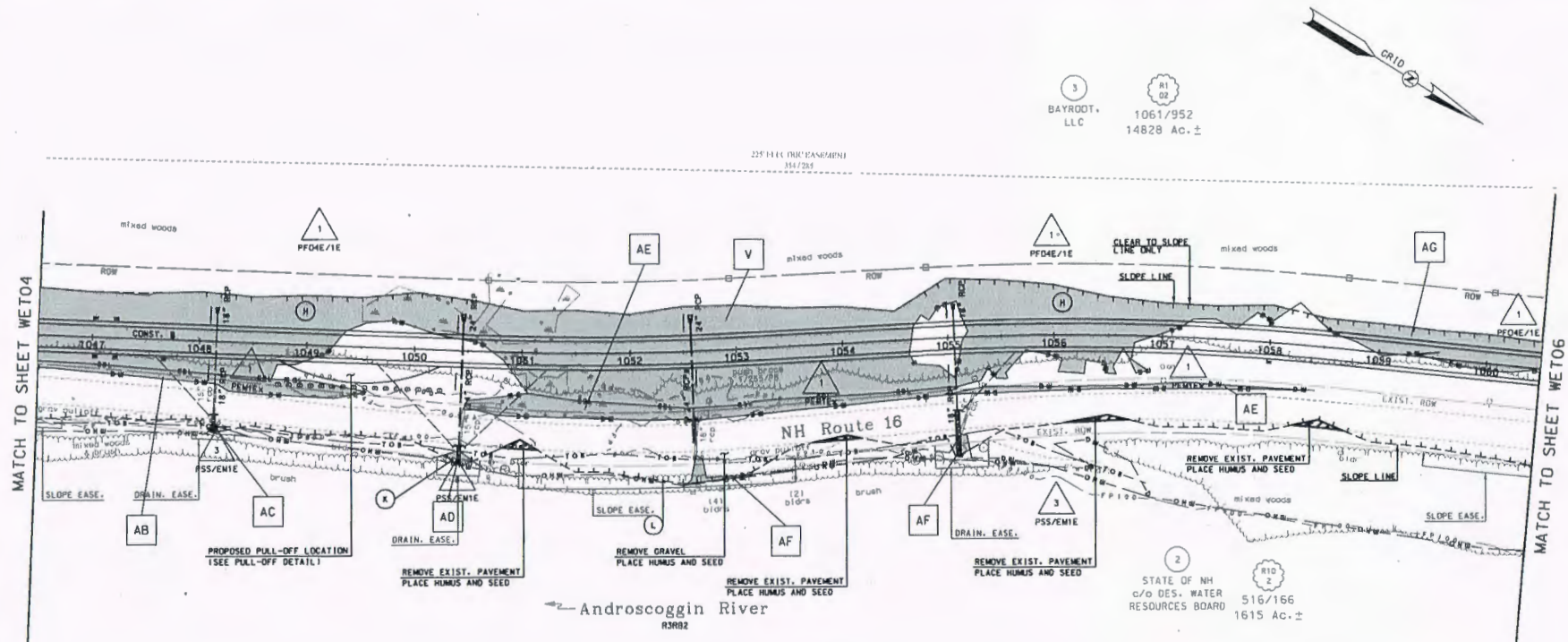
3 BAYROOT, LLC
 R1 02
 1061/952
 14828 AC. ±

124° 43' 0" TRUE (CANP/NH)
 354/285



STATE OF NEW HAMPSHIRE						
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN						
WETLAND IMPACT PLANS						
DATE PLOTTED	YWB PROJECT NO.	MODEL	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
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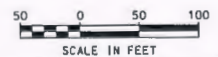
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SHEET CHECKED	SPD/BBT/MSD/MSR	DATE	1/2/2017
AS BUILT DETAILS		DATE	



3
BAYROOT, LLC
1061/952
14828 AC.±

2
STATE OF NH
C/O DES. WATER RESOURCES BOARD
516/166
1615 AC.±

Androscogin River
R3R92

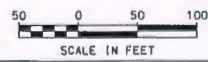
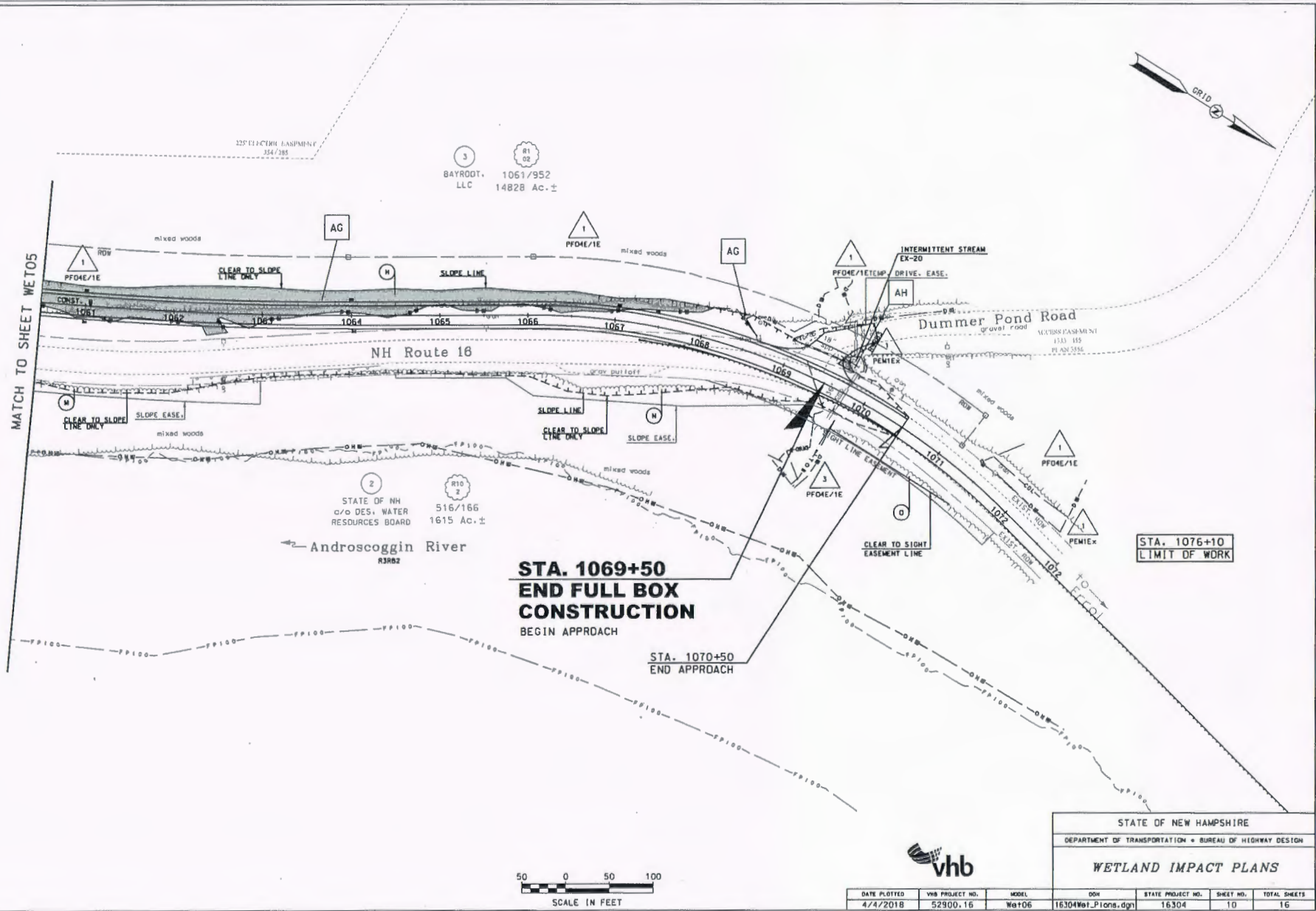


STATE OF NEW HAMPSHIRE						
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN						
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DATE PLOTTED	VHS PROJECT NO.	MODEL	DDN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/4/2018	52900.16	Wet05	16304Wet_Plans.dgn	16304	9	16



NO. PROCESSED	VHS TEAM	DATE	2/2009
NEW DESIGN	Lead Engineer	DATE	1/2011
SHEET CHECKED	Project Manager	DATE	1/2011
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	DESCRIPTION
STATION	
STATION	
DATE	
NUMBER	

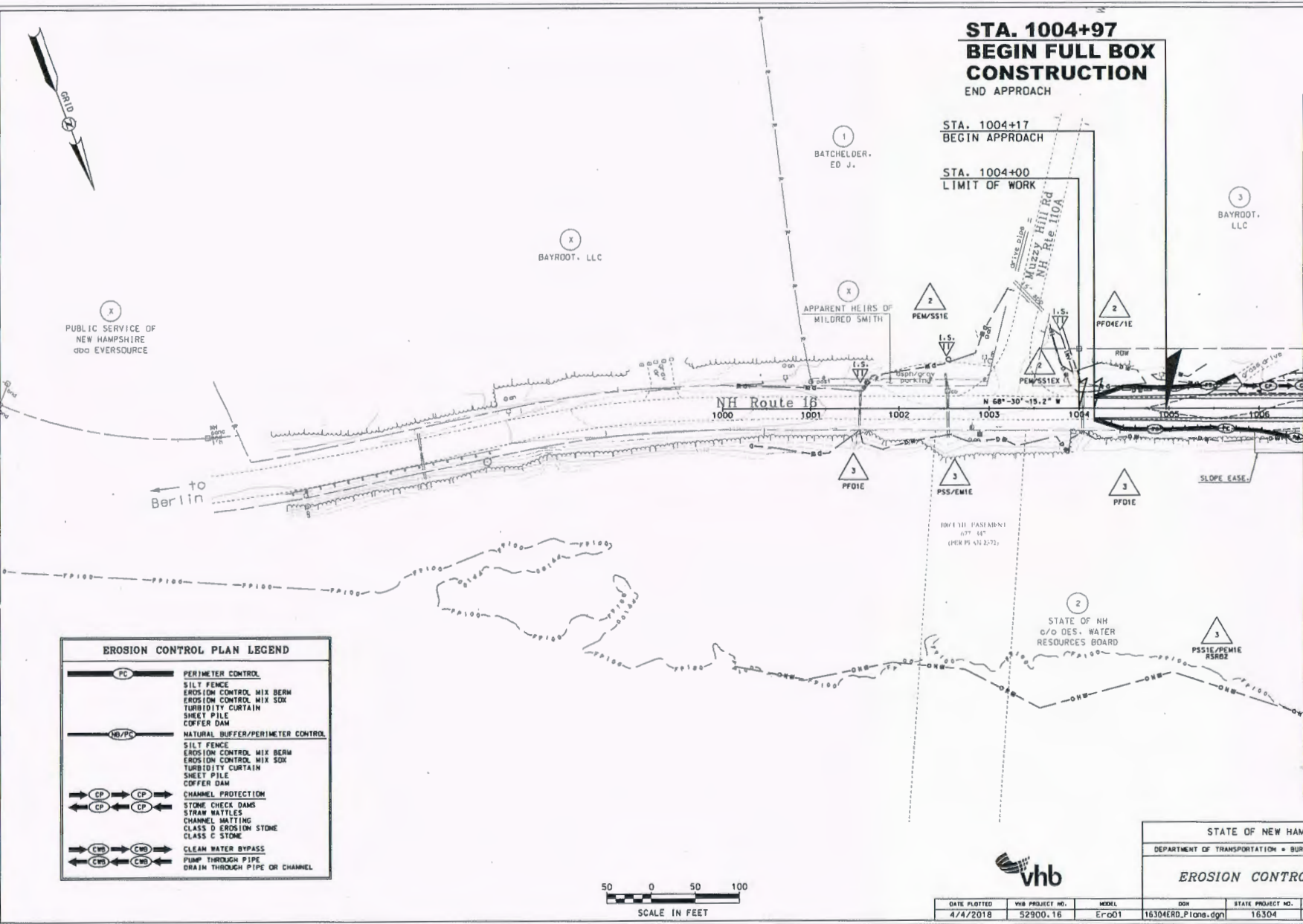


DATE PLOTTED	VHS PROJECT NO.	MODEL	DOH	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/4/2018	52900.16	Wet06	16304Wet_Plans.dgn	16304	10	16

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN
WETLAND IMPACT PLANS



NO. PROCESSED	YHS TEAM	DATE	2/2009
NEW DESIGN	1600 AND 1601	DATE	1/2011
SHEET CHECKED	SPJ/NET/PROJ/MS	DATE	1/2011
AS BUILT DETAILS		DATE	



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW MATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

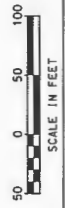
STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
EROSION CONTROL PLANS			
DATE PLOTTED	YHS PROJECT NO.	MODEL	DDH
4/4/2018	52900.16	Er001	16304ERD_P10ns.dgn
STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
16304	11	16	

MATCH TO SHEET ER002

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SHEET CHECKED	PROJECT MANAGER	DATE	1/20/17
AS BUILT DETAILS		DATE	

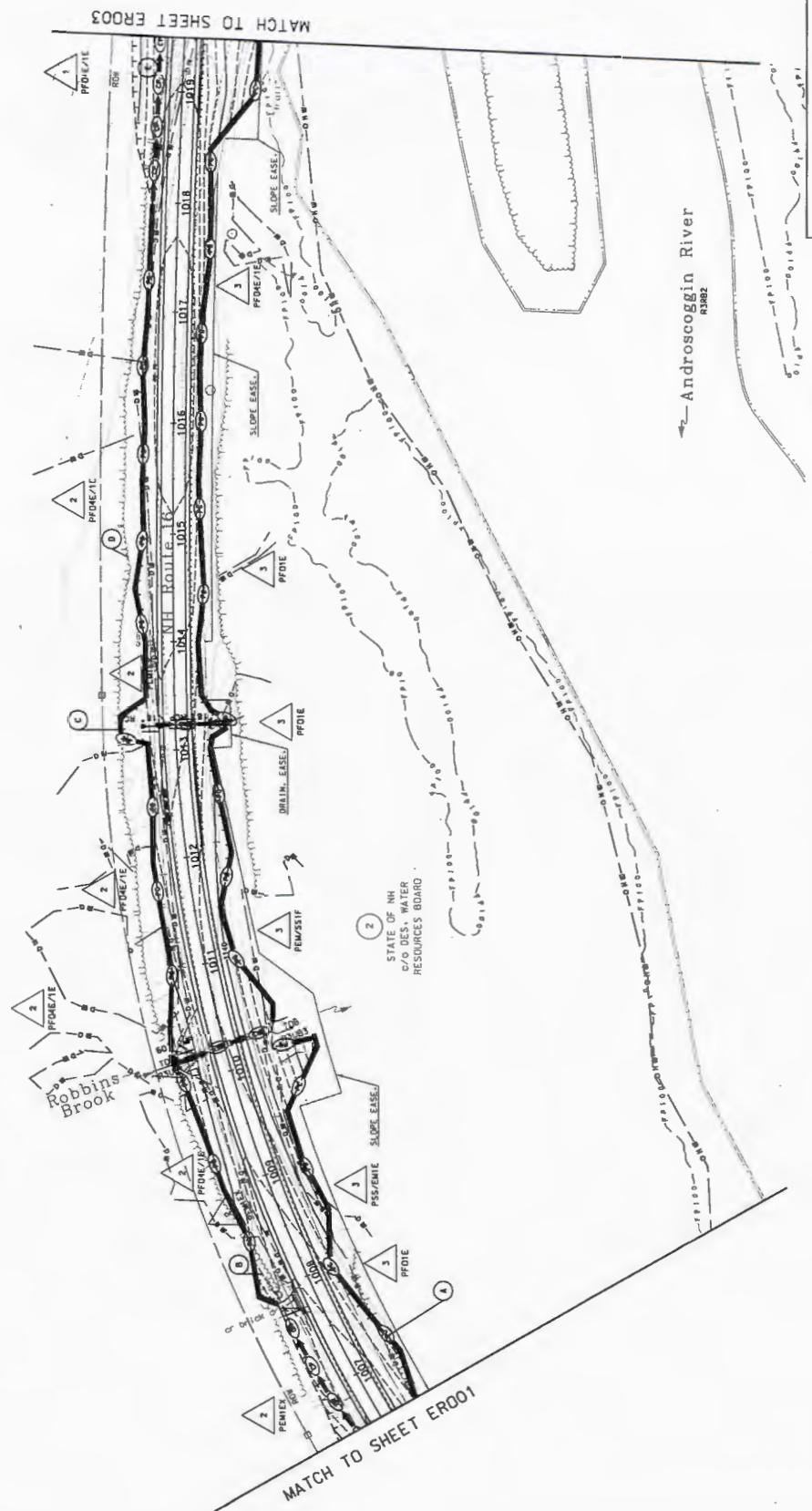
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NO. CHECKED		DATE	1/20/17
NO. DESIGNED		DATE	1/20/17

STATION	DESCRIPTION
	REVISIONS AFTER PROPOSAL



DATE ADDED	4/4/2018
VHB PRODUCT NO.	52900-16
MOOD	ERC002
DESIGNER	16304RD-PJ (DRG-GP)
DON	16304
STATE PROJECT NO.	16304
SHEET NO.	12
TOTAL SHEET	16

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION - BUREAU OF HIGHWAY DESIGN
EROSION CONTROL PLANS



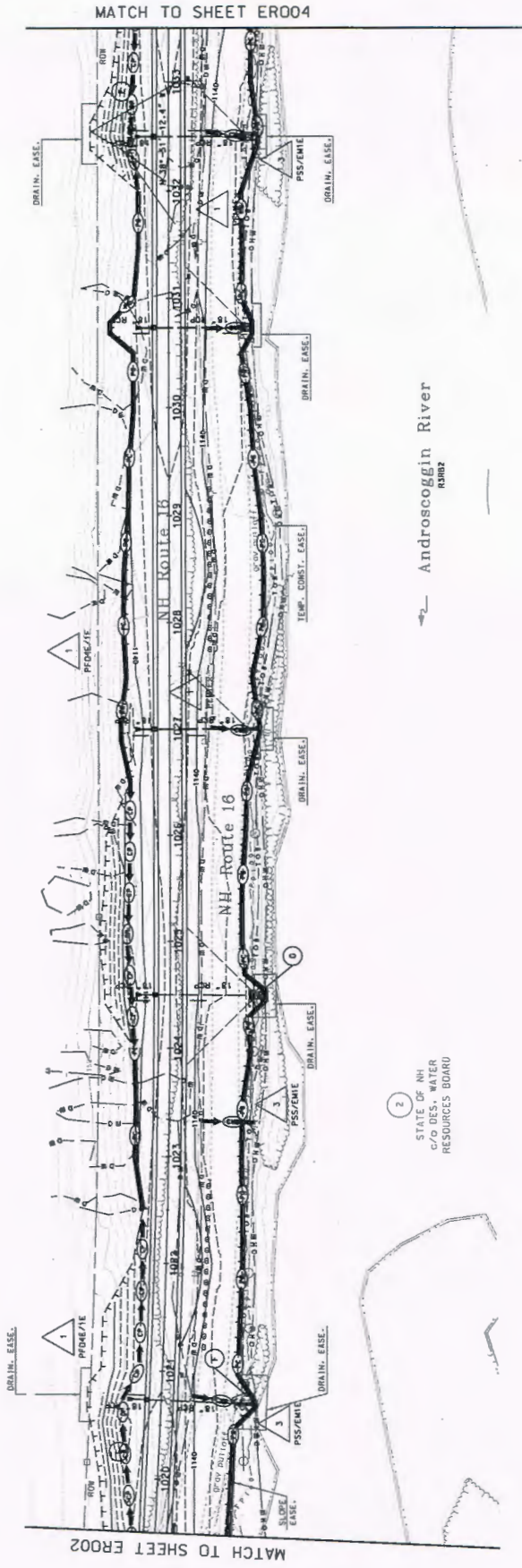
3
BAYBROT,
LLC

2
STATE OF NH
C/O DES. WATER
RESOURCES BOARD

Androscoggin River
R3822



3
BAYROOT, LLC



Androskoggin River
R0802

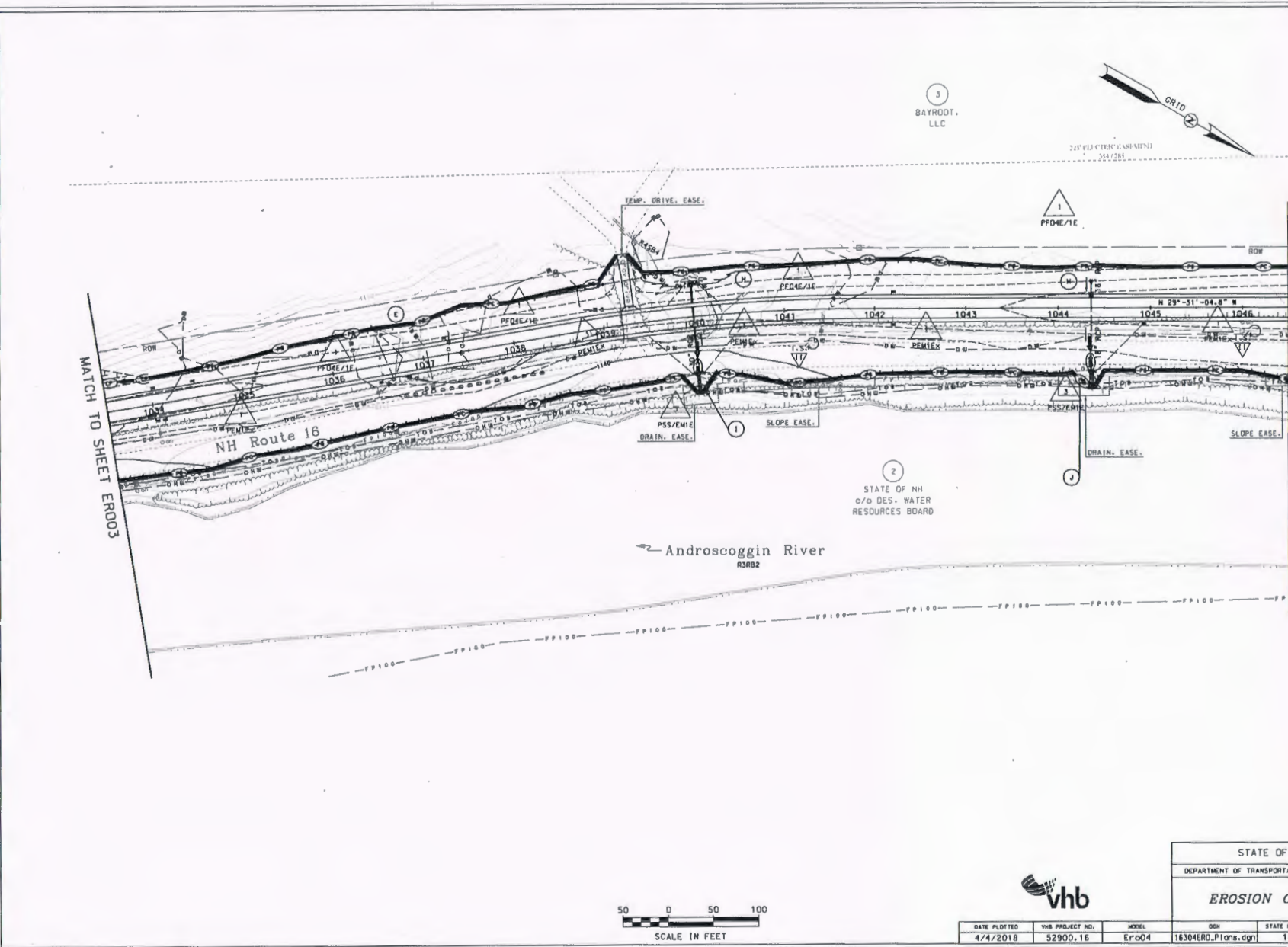
2
STATE OF NH
C/O DES. WATER
RESOURCES BOARD



STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
EROSION CONTROL PLANS			
DATE ADDED	WB PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/1/2018	52900.16	13	16
DESIGNER	PROJECT NO.	SHEET NO.	TOTAL SHEETS
18348RD.P108-001	18304	13	16

AS BUILT DETAILS	DATE
SHEET CHECKED	DATE 1/2017
NEW DESIGN	DATE 1/2011
SUR PROCESSED	DATE 2/2009
NAME	DATE
STATION	STATION
REVISIONS AFTER PROPOSAL	DESCRIPTION

NO. PROPOSED	VHS TEAM	DATE	2/2009
NEW DESIGN	1600 AND 1100'	DATE	1/2017
SHEET CHECKED	PROJ. MGT. MANAGER	DATE	1/2017
AS BUILT DETAILS		DATE	



3
BAYROOT, LLC

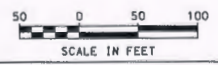
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354/285

1
PF04E/1E

2
STATE OF NH
C/O DES. WATER
RESOURCES BOARD

MATCH TO SHEET ER003

MATCH TO SHEET ER005



STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
EROSION CONTROL PLANS			
DATE PLOTTED	VHS PROJECT NO.	MODEL	DDH
4/4/2018	52900.16	Ero04	16304ERO.Plans.dgn
STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
16304	14	16	

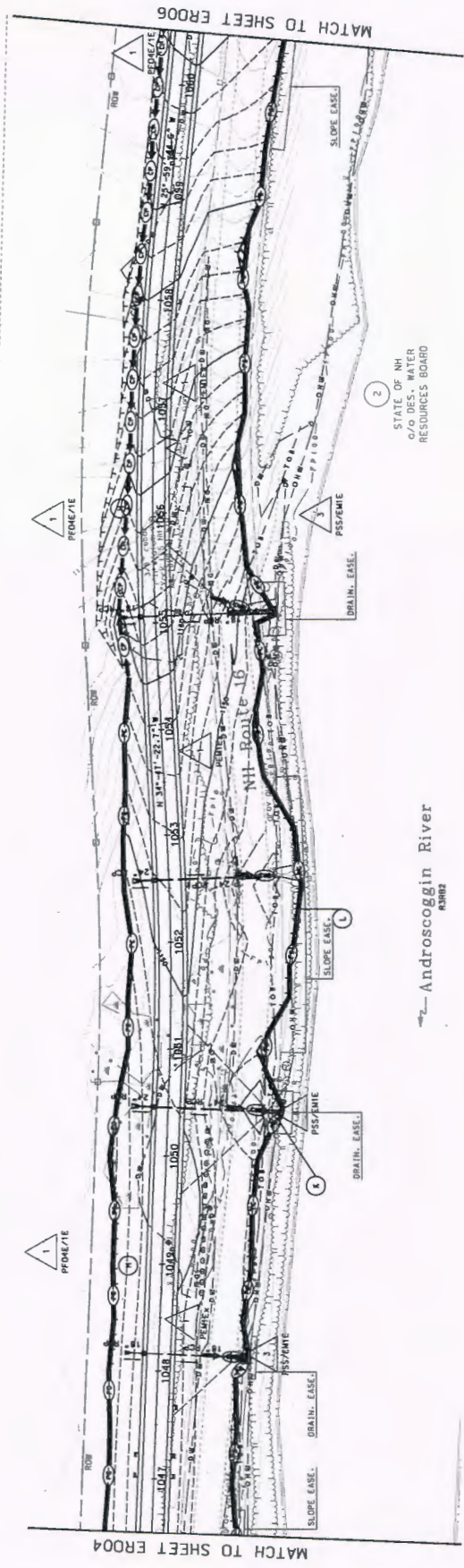
SRP PROGRESSIVE	YHB TEAM	DATE	2/2009
NEW DESIGN	Lead Designer	DATE	1/2011
SHEET CHECKED	Project Manager	DATE	1/2011
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL	STATION	DESCRIPTION



3
BAYROOD,
LLC

235 HITCHCOCK AVENUE
NASHUA, NH 03041

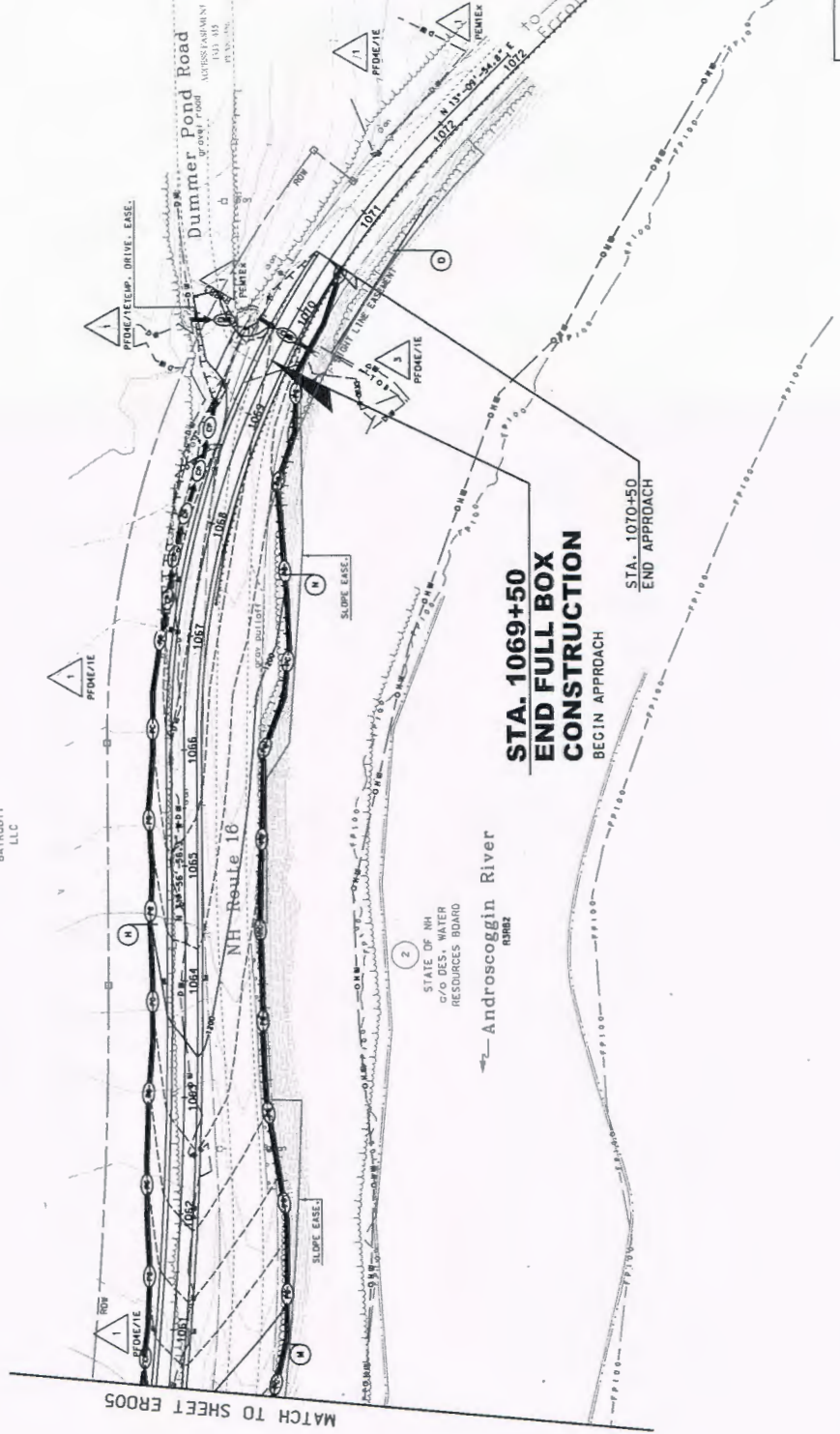


2
STATE OF NH
D/O DES. WATER
RESOURCES BOARD

Androskoggin River
R48B2



STATE OF NEW HAMPSHIRE	
DEPARTMENT OF TRANSPORTATION - BUREAU OF HIGHWAY DESIGN	
EROSTON CONTROL PLANS	
DATE RATED:	4/7/2018
YHB PROJECT NO.:	52900.16
MODEL:	Ero05
CON:	16304RD.P1 (v18.dgn)
SHEET NO.:	15
TOTAL SHEETS:	16



**STA. 1069+50
END FULL BOX
CONSTRUCTION
BEGIN APPROACH**

**STA. 1070+50
END APPROACH**



NO.	DATE	DESCRIPTION

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION - BUREAU OF HIGHWAY DESIGN			
EROSION CONTROL PLANS			
DATE PLOTTED	VHB PROJECT NO.	SHEET NO.	TOTAL SHEETS
4/4/2018	52900.16	16.004	16

DATE PLOTTED: 4/4/2018
VHB PROJECT NO.: 52900.16
SHEET NO.: 16.004
TOTAL SHEETS: 16

135 FEA/CORR EASEMENT
151/35

3
BAYROOD,
LLC

2
STATE OF NH
G/O DES. WATER
RESOURCES BOARD

Androskoggin River
RBRZ

MATCH TO SHEET ERO5

STA. 1076+10
LIMIT OF WORK