

U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OP-RMN (LEHIGH CEMENT CO/NEW WINDSOR
QUARRY) 2008-65243-M22

PN 11-79

Comment Period: October 3, 2011 – November 3, 2011

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED.

The Baltimore District has received an application for a Department of the Army permit pursuant to the Section 404 of the Clean Water Act (33 U.S.C 1344), as described below:

APPLICANT: Mr. Kurt Deery
Lehigh Cement Company
675 Quaker Hill Road
Union Bridge, Maryland 21791

LOCATION AND WATERWAY: In Five Daughters Run and Dickenson Run and adjacent nontidal emergent wetlands, within the existing Lehigh Cement Company's New Windsor Quarry, near Old New Windsor Road, in New Windsor, Carroll County, Maryland.

WORK: To discharge fill material into waters of the United States, including nontidal emergent wetlands, for the purpose of continuing and expanding the existing mining operations at Lehigh's New Windsor Quarry. The project involves excavation and extraction of subsurface limestone; deposition of the overburden materials; and construction of redundant material transport systems, to include (a) a combined underground and aboveground conveyor belt system, and, (b) the construction of a railroad spur, both to transport the newly extracted mineral material from the quarry to Lehigh Cement Company's Union Bridge processing plant. The proposed work will result in temporary impacts to approximately 745 linear feet (4,470 square feet) of a perennial stream; and permanent impacts to approximately 7,551 linear feet (1.04 acres) of a perennial stream, approximately 12,563 linear feet (0.87 acre) of an intermittent stream, and approximately 73,180.8 square feet (1.68 acres) of nontidal emergent wetlands. The applicant has demonstrated avoidance and minimization of impacts to waters of the United States by utilizing all available upland areas within the project site for placement of the overburden materials, proposing a partially underground conveyor system, and bottomless arch railway culvert crossings.

As compensatory mitigation for the unavoidable permanent impacts to approximately 20,114 linear feet of streams and 73,180.8 square feet (1.68 acres) of nontidal emergent wetlands, the applicant is proposing an offsite, within watershed, mitigation site which includes stabilization and restoration of approximately 20,114 linear feet of Haines Branch and unnamed tributaries to Haines Branch, and the creation of a minimum of approximately 1.68 acres of nontidal emergent wetlands. The proposed mitigation site is located on property owned by Lehigh Cement Company.

All work would be completed in accordance with the enclosed plans dated August 26, 2011.

If you have any questions concerning this matter, please contact *Mrs. Tarrie Ostrofsky* at 410-962-4522 or *Tarrie.L.Ostrofsky@usace.army.mil*.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts 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 reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, water supply and conservation, water quality, energy needs, safety, food and fiber production, and, in general, the needs and welfare of the people.

The evaluation of the impact of the work described above on the public interest will include application of the Clean Water Act Section 404(b)(1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; 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 and 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. Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mrs. Tarrie Ostrofsky, CENAB-OP-RMN], P.O. Box 1715, Baltimore Maryland 21203-1715, within the comment period as specified above to receive consideration.

SECTION 401 WATER QUALITY CERTIFICATION: The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of the Environment. Any written comments concerning the work described above which relate to water quality certification must be received by the Standards and Certification Division Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. The 401 certifying agency has a statutory limit of one year to make its decision.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

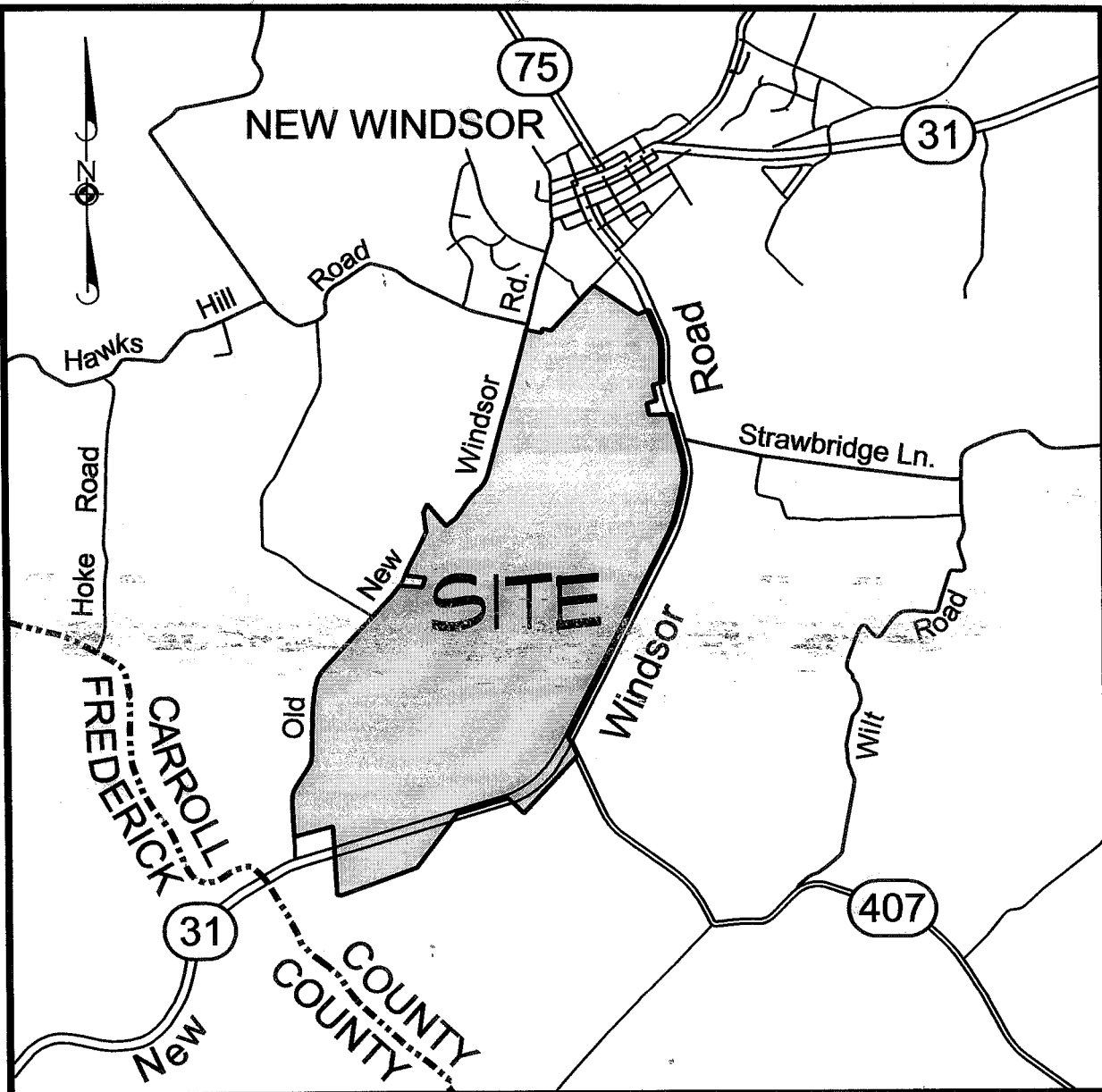
Review of the latest published version of the National Register of Historic Places indicated that there are no registered properties listed as eligible for inclusion therein located at the site of the proposed work. However, the site is adjacent to a National Register-listed historic district. Therefore, there is a potential for direct or indirect effects on historic buildings and landscapes, as well as on undiscovered existing archeological deposits. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the requested permit. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mrs. Tarrie Ostrofsky, CENAB-OP-RMN], P.O. Box 1715, Baltimore Maryland, 21203-1715, within the comment period as specified as above to receive consideration. Also, it must clearly state forth the interest which may be adversely affected by this activity in the manner in which the interest may be adversely affected.

It is requested that you communicate the foregoing information concerning the proposed work to any persons known by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:

Joseph P. DaVia
Chief, Maryland Section Northern

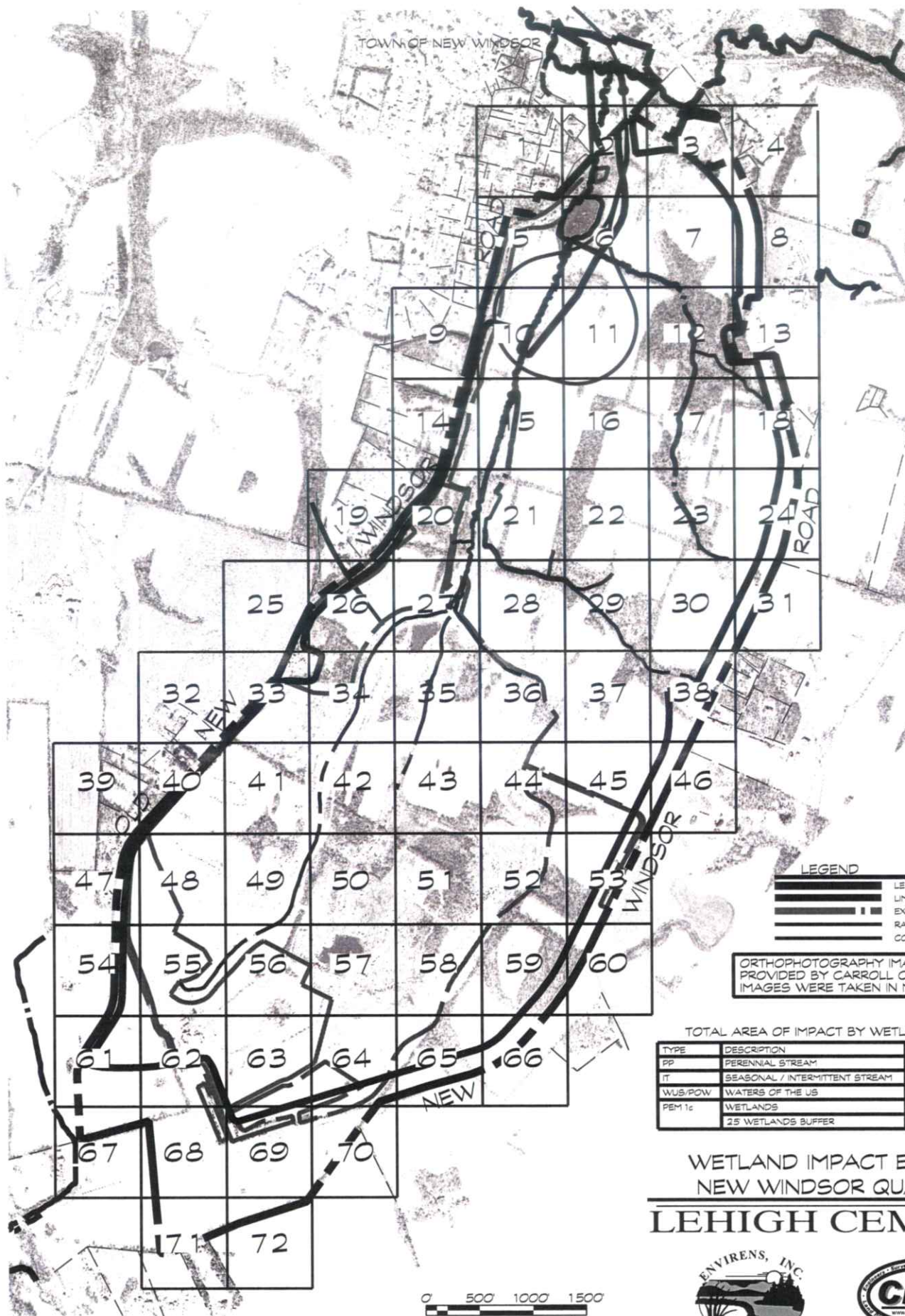


VICINITY MAP SCALE 1" = 3000'

SUMMARY			
TOTAL AREA OF IMPACT BY WETLAND TYPE			
TYPE	DESCRIPTION	TOTAL IMPACTS	
		TEMPORARY (transportation)	PERMANENT
PP	PERENNIAL STREAM	745 LF; 0.1 acres	7,551 LF; 1.04 acres
IT	SEASONAL / INTERMITTENT STREAM	_____	12,563 LF; 0.87 acres
WUS/POW	WATERS OF THE U.S.	_____	8,712 FT ² ; 0.20 acres
PEM1c	WETLANDS	_____	73,180.8 FT ² ; 1.68 acres
	25' WETLANDS BUFFER	_____	118,047.6 FT ² ; 2.71 acres

IMPACT OF COMBINED ACTIVITIES BY WETLAND TYPE

PERENNIAL STREAM (PP)	PERMANENT IMPACTS		25' WETLANDS BUFFER	PERMANENT IMPACTS
FIVE DAUGHTERS RUN	2,001 LF; 12,006 FT ²		FIVE DAUGHTERS RUN (FDR) WETLAND #1 - BUFFER	3,920.4 FT ² ; 0.09 acres
TRIB 'B'	2,155 LF; 12,930 FT ²		FIVE DAUGHTERS RUN (FDR) WETLAND #2 - BUFFER	13,939.2 FT ² ; 0.32 acres
TRIB 'C'	3,395 LF; 20,370 FT ²		TRIB 'B' WETLAND #1 - BUFFER	12,632.4 FT ² ; 0.29 acres
SUBTOTAL	7,551 LF; 1.04 acres		TRIB 'B' WETLAND #2 - BUFFER	16,552.8 FT ² ; 0.38 acres
			TRIB 'C' WETLAND #1 - BUFFER	12,196.8 FT ² ; 0.28 acres
SEASONAL/INTERMITTENT STREAM(IT)	PERMANENT IMPACTS		TRIB 'C' WETLAND #2 - BUFFER	37,897.2 FT ² ; 0.87 acres
FIVE DAUGHTERS RUN	2,567 LF; 7,701 FT ²		DRAINED FARM POND/WETLAND - BUFFER	20,908.8 FT ² ; 0.48 acres
RELOCATED FIVE DAUGHTERS RUN	4,781 LF; 14,343 FT ²		SUBTOTAL	118,047.6 FT ² ; 2.71 acres
TRIB 'A'	882 LF; 2,646 FT ²			
TRIB 'B'	1,935 LF; 5,805 FT ²			
TRIB 'B' STREAM BRANCH #1	272 LF; 816 FT ²			
TRIB 'B' STREAM BRANCH #2	409 LF; 1,227 FT ²			
TRIB 'C'	456 LF; 1,368 FT ²			
TRIB 'C' STREAM BRANCH #1	61 LF; 183 FT ²			
TRIB 'C' STREAM BRANCH #2	66 LF; 198 FT ²		TRANSPORTATION PLAN	TEMPORARY IMPACTS
TRIB 'C' STREAM BRANCH #3	879 LF; 2,637 FT ²		PERENNIAL STREAM (PP) CROSSINGS:	
TRIB 'D'	55 LF; 165 FT ²		1 - UNDERGROUND CONVEYOR	780 FT ²
TRIB 'E'	200 LF; 600 FT ²		2 - ABOVEGROUND CONVEYOR	540 FT ²
SUBTOTAL	12,563 LF; 0.87 acres		3 - UNDERGROUND CONVEYOR	720 FT ²
			4 - UNDERGROUND CONVEYOR	690 FT ²
WETLANDS (PEM1c)	PERMANENT IMPACTS		5 - ABOVEGROUND CONVEYOR	1,140 FT ²
FIVE DAUGHTERS RUN (FDR) WETLAND #1	435.6 FT ² ; 0.01 acres		6 - ABOVEGROUND CONVEYOR	600 FT ²
FIVE DAUGHTERS RUN (FDR) WETLAND #2	3,049.2 FT ² ; 0.07 acres		7 - ABOVEGROUND RAILROAD	0
TRIB 'B' WETLAND #1	3,049.2 FT ² ; 0.07 acres		8 - RAILROAD	0
TRIB 'B' WETLAND #2	17,859.6 FT ² ; 0.41 acres		9 - RAILROAD	0
TRIB 'C' WETLAND #1	3,920.4 FT ² ; 0.09 acres		10 - RAILROAD	0
TRIB 'C' WETLAND #2	12,632.4 FT ² ; 0.29 acres		11 - RAILROAD	0
DRAINED FARM POND/WETLAND	32,234.4 FT ² ; 0.74 acres		12 - RAILROAD	0
SUBTOTAL	73,180.8 FT ² ; 1.68 acres		SUBTOTAL	4,470 FT ² ; 0.1 acres



LEGEND

	LEHIGH PROPERTY LINE
	LIMIT OF DISTURBANCE
	EX MINING PERMIT
	RAIL ROAD
	CONVEYOR LINE

ORTHOGRAPHY IMAGES
PROVIDED BY CARROLL COUNTY.
IMAGES WERE TAKEN IN MARCH, 2006

TOTAL AREA OF IMPACT BY WETLAND TYPE

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	7,551 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	12,563 Linear Feet
WUS/POW	WATERS OF THE US	0.20 Acres
PEM1c	WETLANDS	1.68 Acres
	25 WETLANDS BUFFER	2.71 Acres

WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

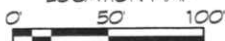
TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	0 Linear Feet
T	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POV	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM # 2400 1500 75B)
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE
	FFP
	LOD



LOCATION MAP



WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

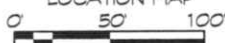
TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	0 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM # 2400 1500 75B)
	FFP
	LOD
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE

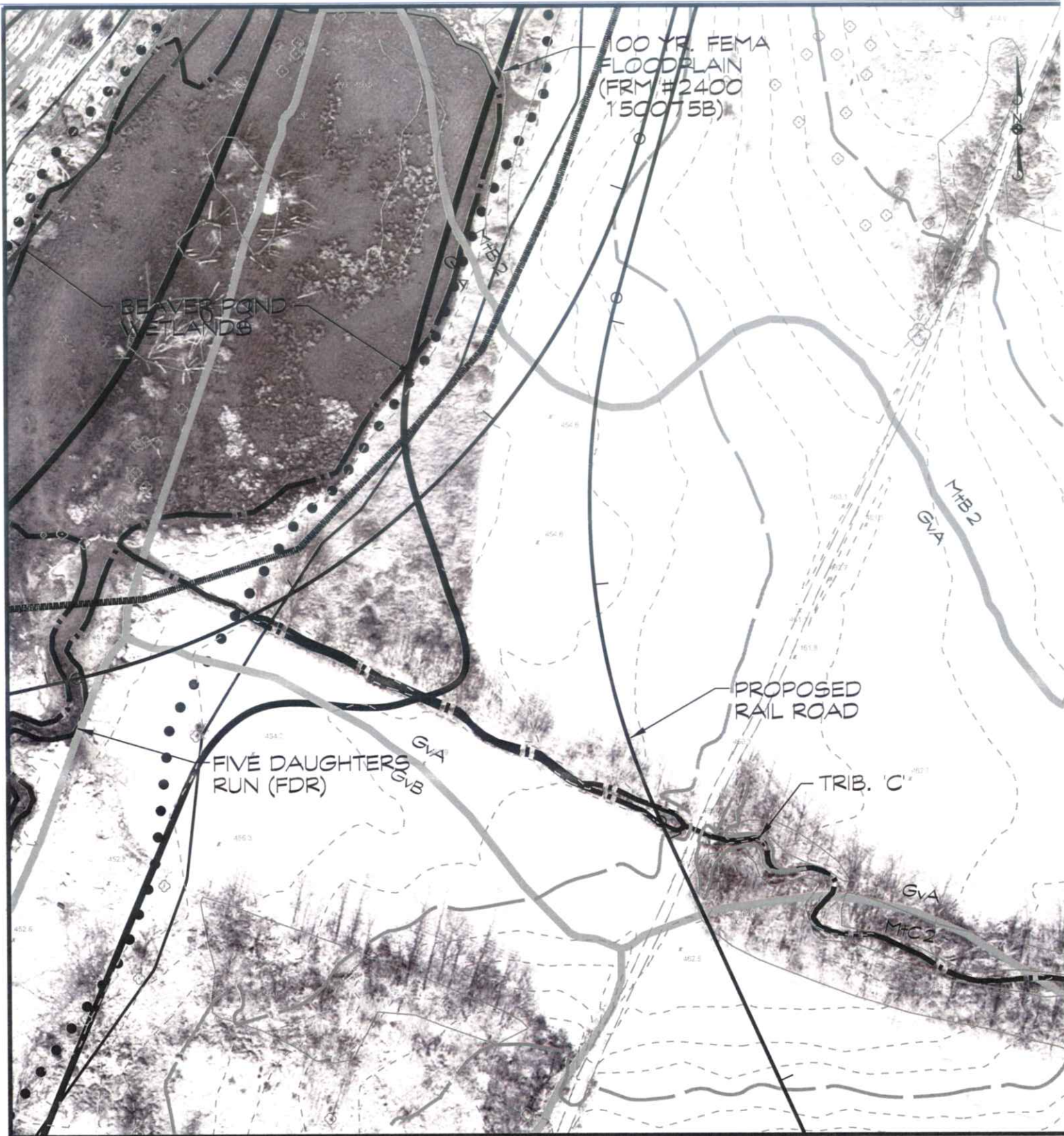


LOCATION MAP



WETLAND IMPACT EXHIBIT NEW WINDSOR QUARRY LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	600 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

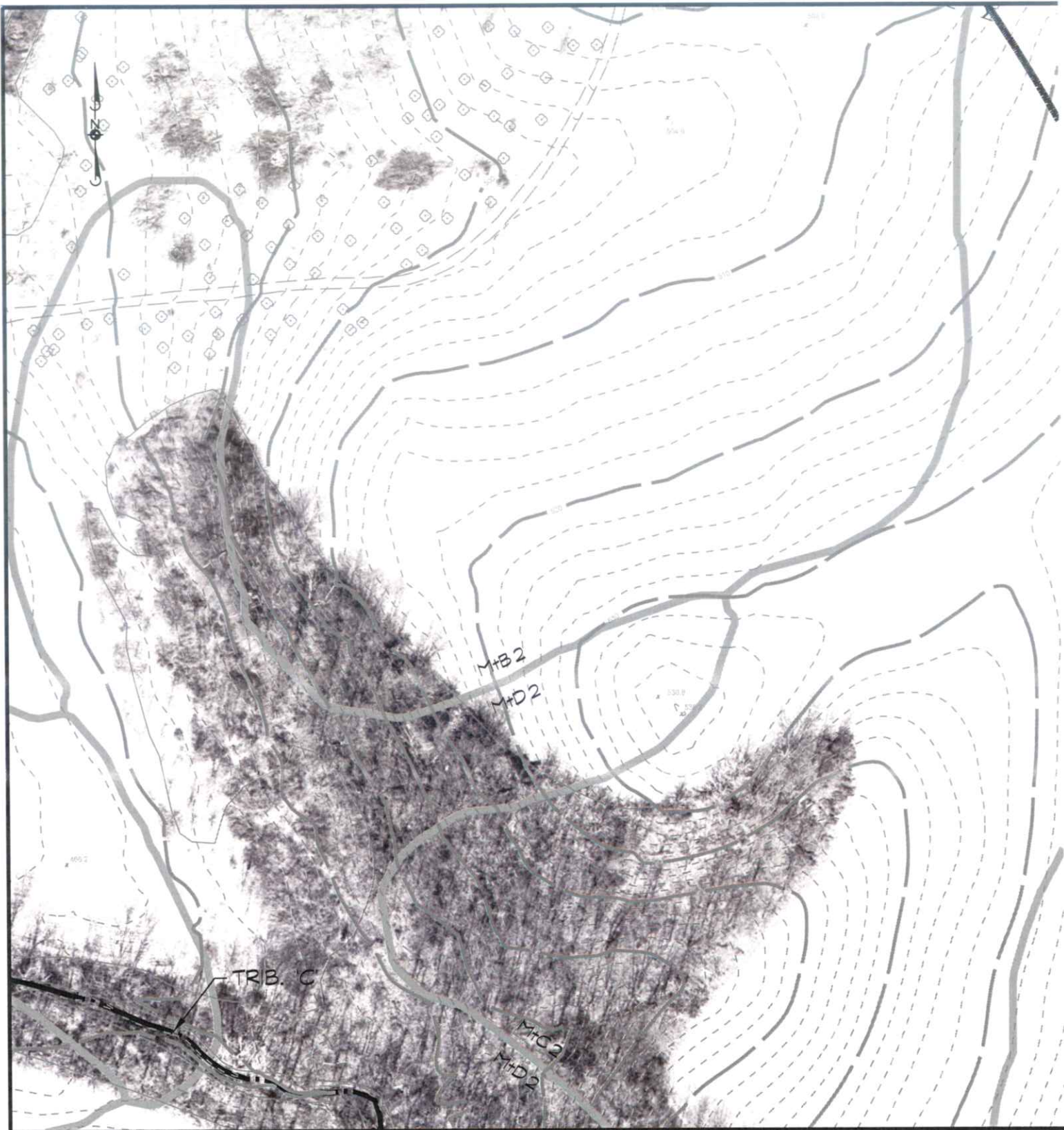
LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM #2400 150075B)
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE



WETLAND IMPACT EXHIBIT NEW WINDSOR QUARRY LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

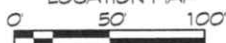
TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	320 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POV	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25 WETLANDS BUFFER	0.00 Acres

LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25 WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM #2400 150075B)
	FFP
	LOD
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE

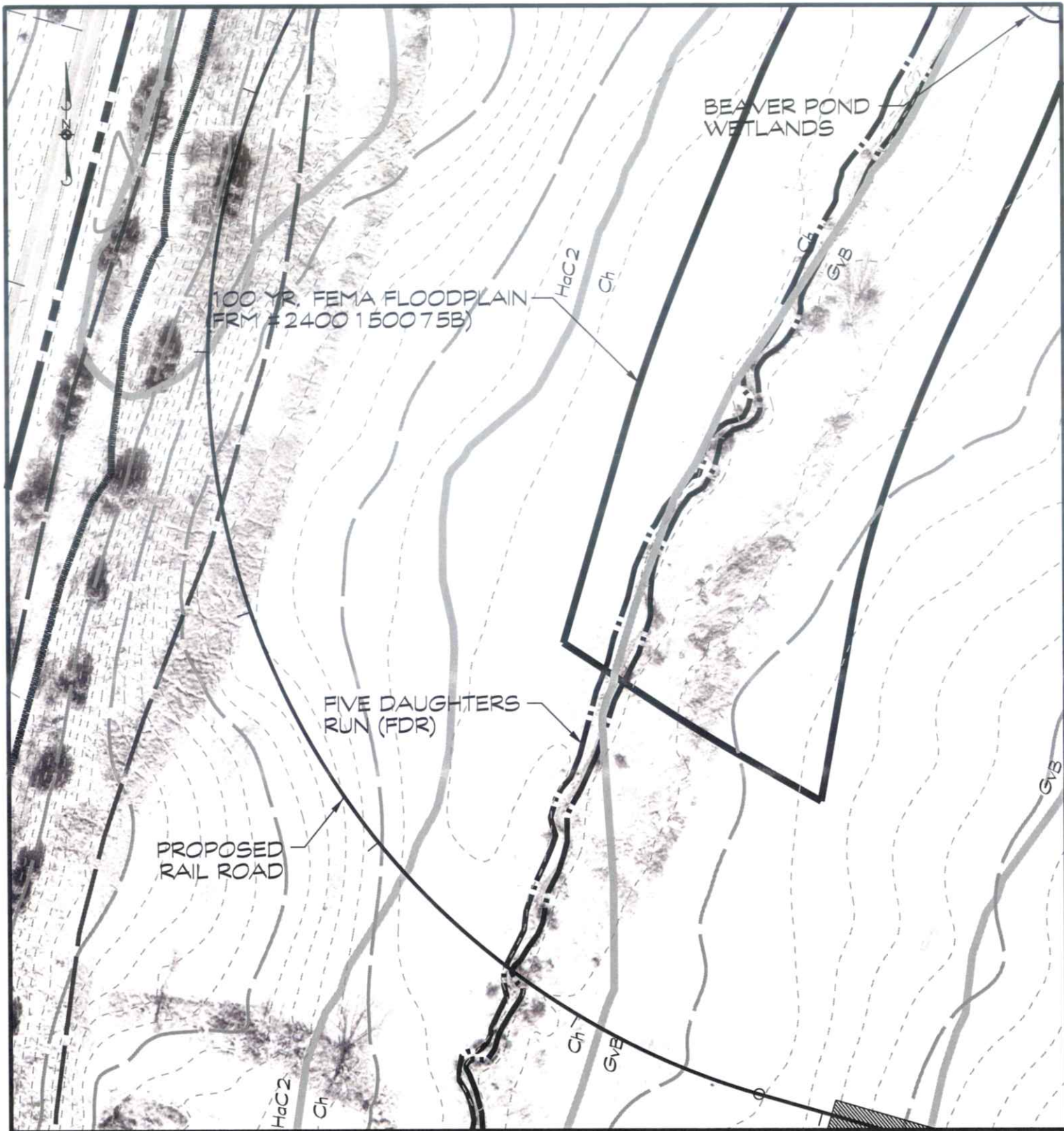


LOCATION MAP



WETLAND IMPACT EXHIBIT NEW WINDSOR QUARRY LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	300 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

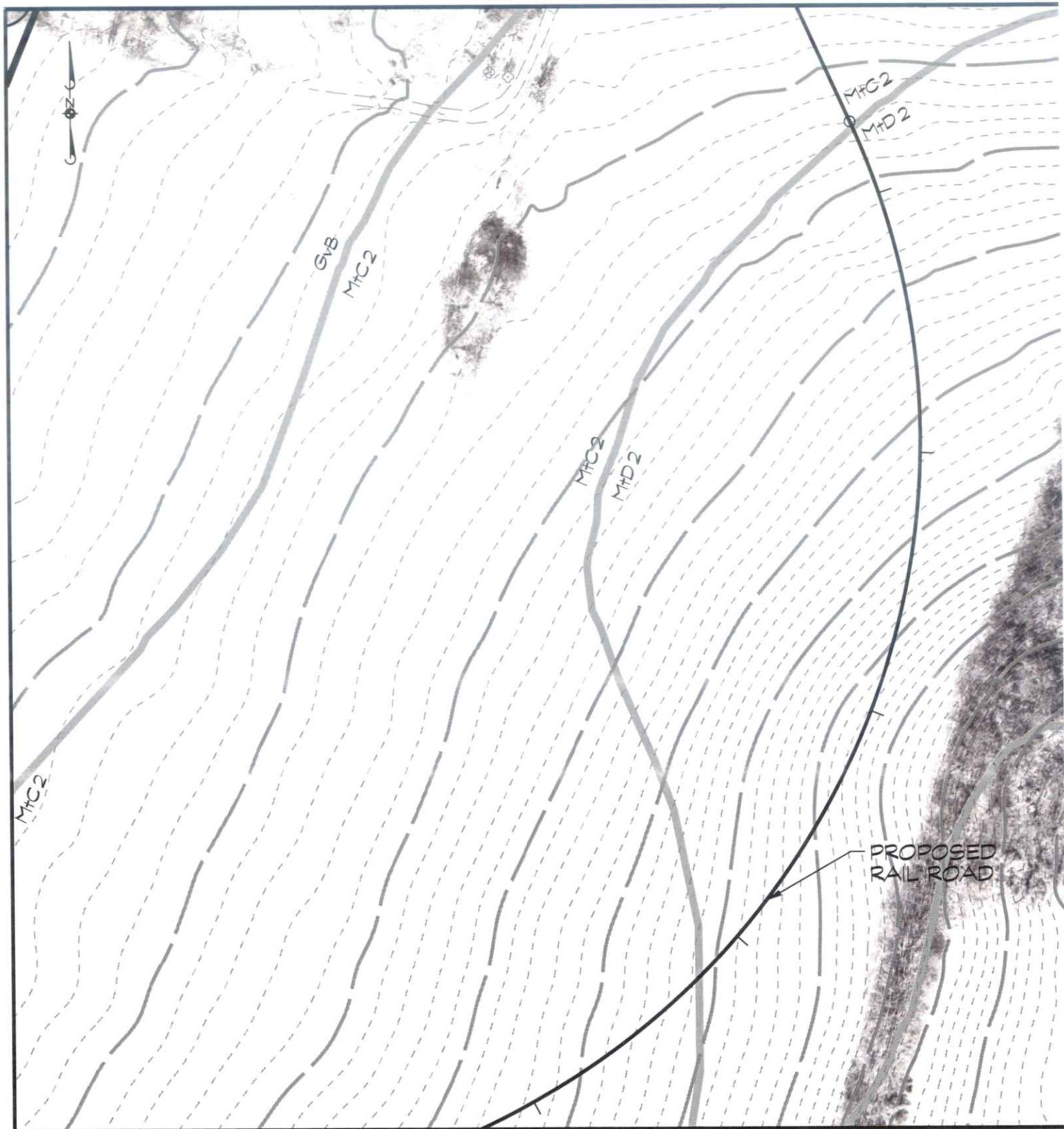
	PERENNIAL STREAM (NHWI)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM # 2400 1500 75B)
	FFP
	LOD
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE



LOCATION MAP
0 50 100

WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

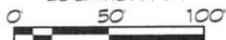
TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	0 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	FFP
	LOD
	100 YR FLOODPLAIN (FRM #24001500758)
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE

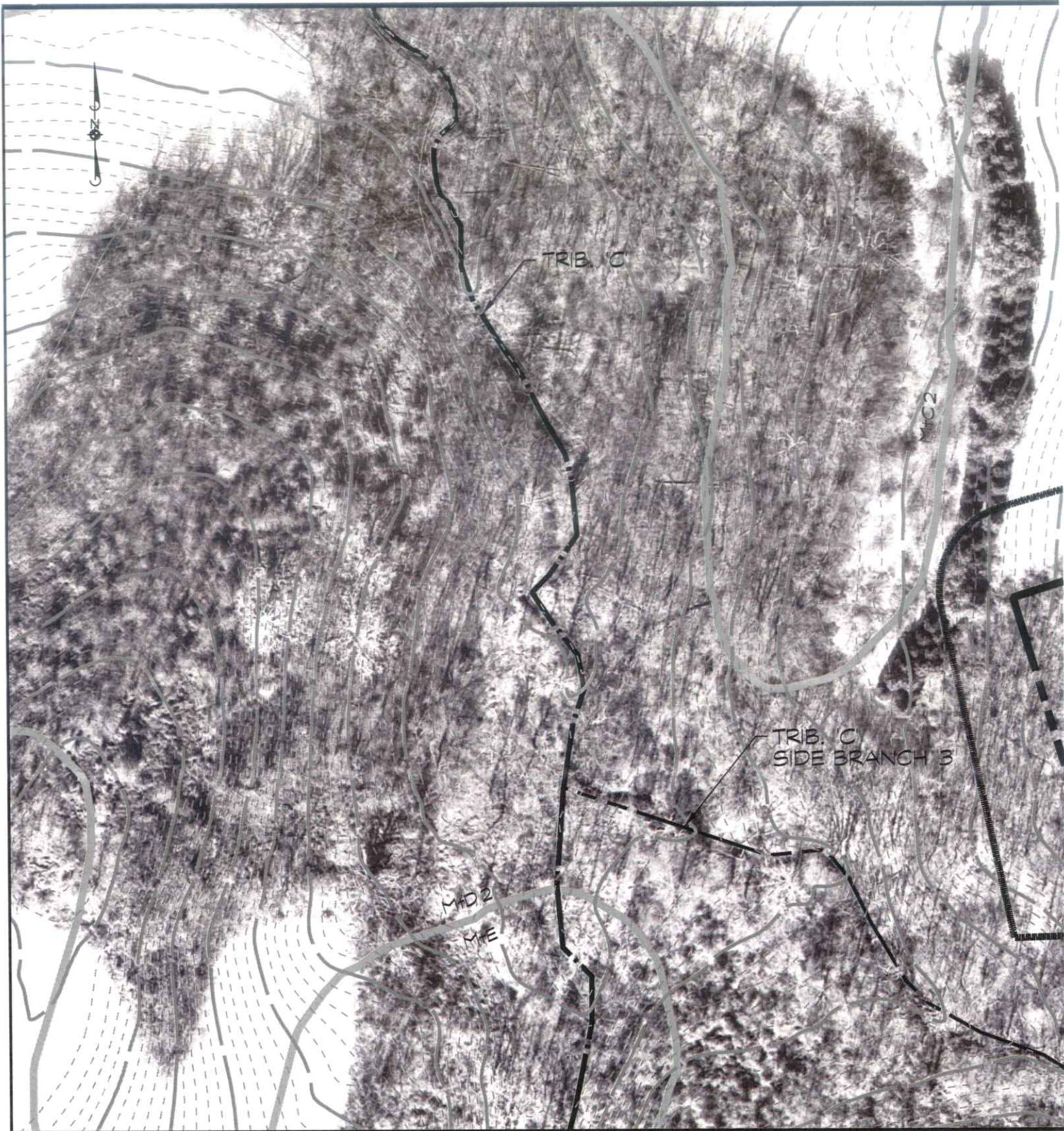


LOCATION MAP



WETLAND IMPACT EXHIBIT NEW WINDSOR QUARRY LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

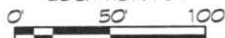
TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	935 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	463 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

—	PERENNIAL STREAM (NHWM)
—	SEASONAL / INTERMITTENT STREAM
—	WATERS OF THE US
—	LIMIT OF WETLANDS
—	25' WETLANDS BUFFER
—	100 YR FLOODPLAIN (FRM # 2400 1500 758)
—	FFP
—	LOD
—	LIMIT OF DISTURBANCE
—	LIMIT OF EXISTING MINING PERMIT
—	LEHIGH PROPERTY LINE

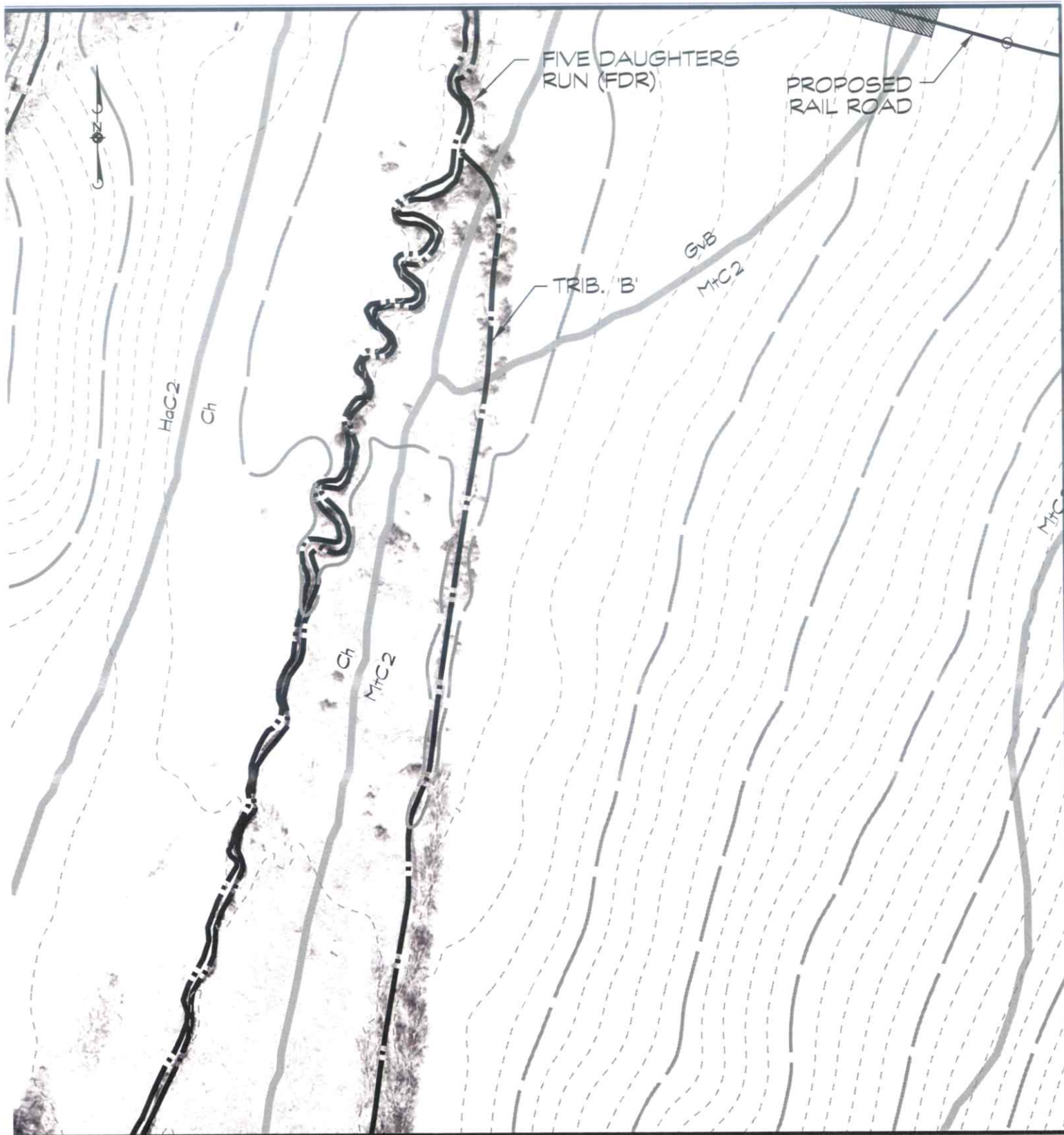


LOCATION MAP



WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	1652 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

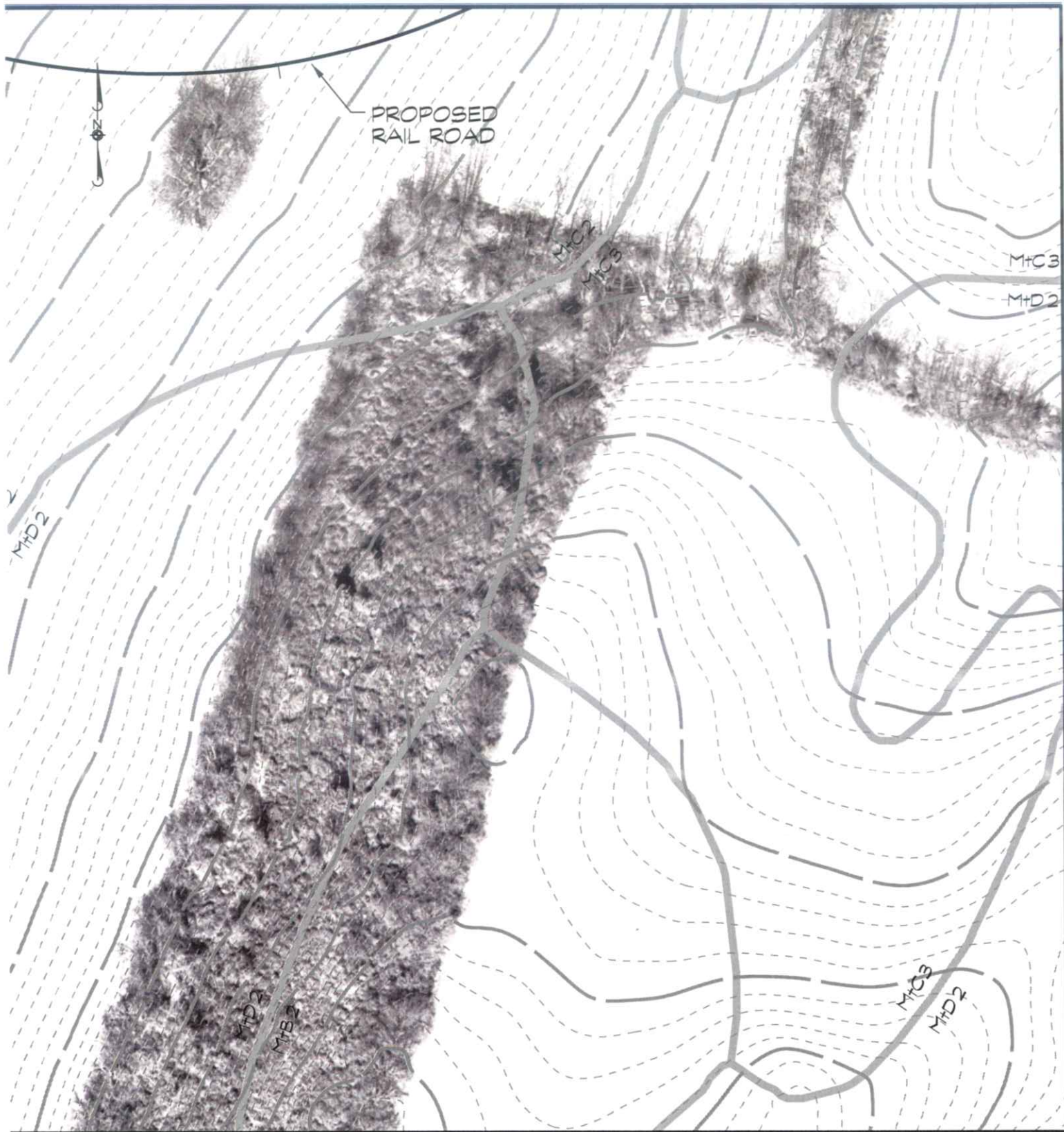
LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRIM #2400 1500 758)
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE



WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	0 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.00 Acres
	25' WETLANDS BUFFER	0.00 Acres

LEGEND

	PERENNIAL STREAM (NHWM)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25' WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM # 2400 1500 75B)
	FFP
	LOD
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE



LOCATION MAP
0 50' 100'

WETLAND IMPACT EXHIBIT NEW WINDSOR QUARRY LEHIGH CEMENT





AREA OF IMPACT BY WETLAND TYPE (this sheet only)

TYPE	DESCRIPTION	IMPACT
PP	PERENNIAL STREAM	900 Linear Feet
IT	SEASONAL / INTERMITTENT STREAM	0 Linear Feet
WUS/POW	WATERS OF THE US	0.00 Acres
PEM 1c	WETLANDS	0.36 Acres
	25 WETLANDS BUFFER	1.15 Acres

LEGEND

	PERENNIAL STREAM (NHW)
	SEASONAL / INTERMITTENT STREAM
	WATERS OF THE US
	LIMIT OF WETLANDS
	25 WETLANDS BUFFER
	100 YR FLOODPLAIN (FRM # 2400 1500 758)
	LIMIT OF DISTURBANCE
	LIMIT OF EXISTING MINING PERMIT
	LEHIGH PROPERTY LINE
	FFP
	LOD



LOCATION MAP



WETLAND IMPACT EXHIBIT
NEW WINDSOR QUARRY
LEHIGH CEMENT



PROPOSED WETLAND TYPES:

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently exposed)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

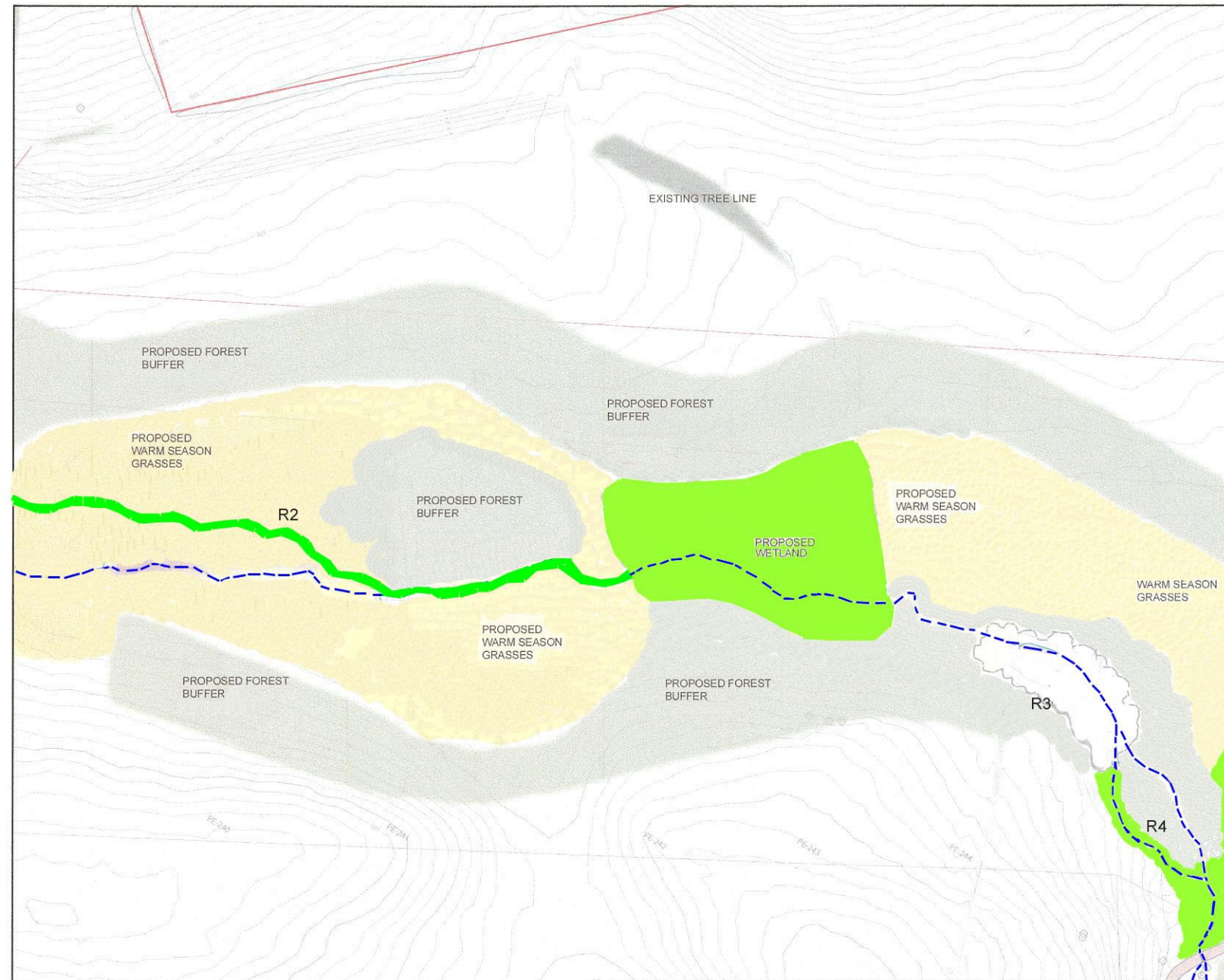
- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
- Existing Tree Line
- Existing Trees
- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line

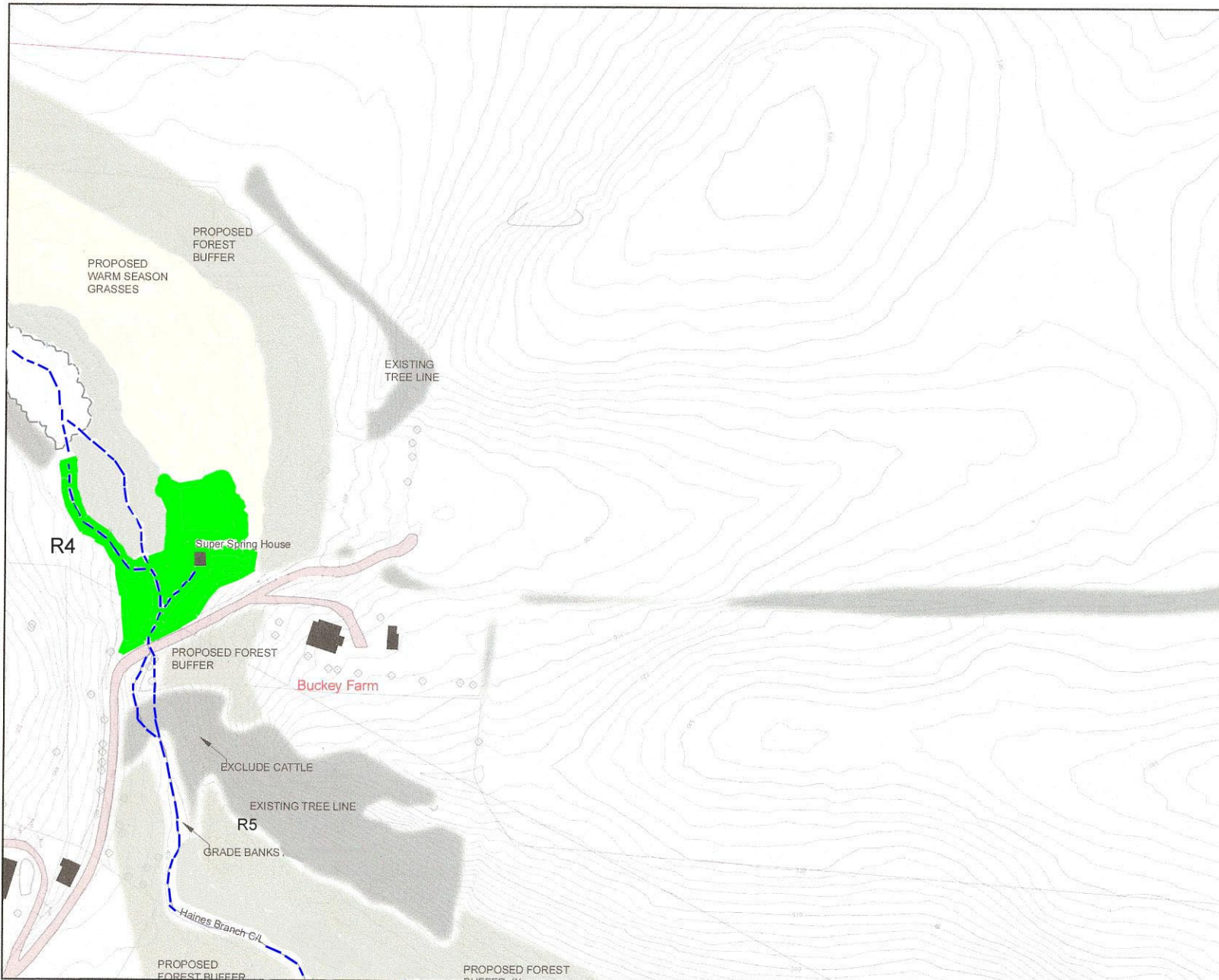


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 envirens@aol.com

LEHIGH, NEW WINDSOR QUARRY EXPANSION
 HAINES BRANCH/ FIVE DAUGHTERS RUN MITIGATION
 CONCEPT DESIGN

Date: 21 October 2009	Scale: 1"=50'	Sheet NO: 2 of 10
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PROPOSED WETLAND TYPES

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

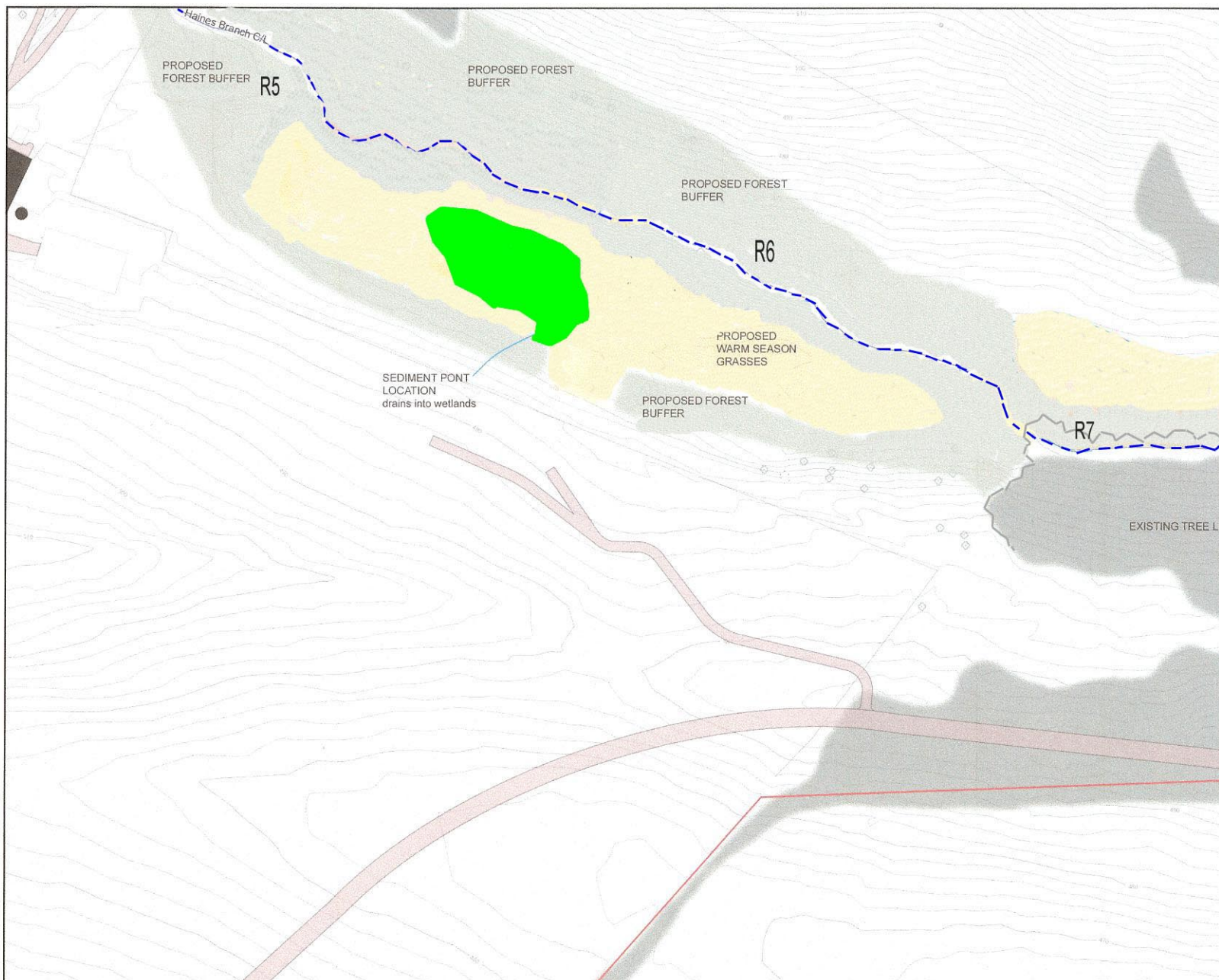
LEGEND:

- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
- Existing Tree Line
- Existing Trees
- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line



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LEHIGH_NEW WINDSOR QUARRY EXPANSION
 HAINES BRANCH/ FIVE DAUGHTERS RUN MITIGATION
 CONCEPT DESIGN



PROPOSED WETLAND TYPES:

- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
- Existing Tree Line
- Existing Trees
- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line



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LEHIGH_NEW WINDSOR QUARRY EXPANSION
HAINES BRANCH/ FIVE DAUGHTERS RUN MITIGATION
CONCEPT DESIGN

PROPOSED WETLAND TYPES

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

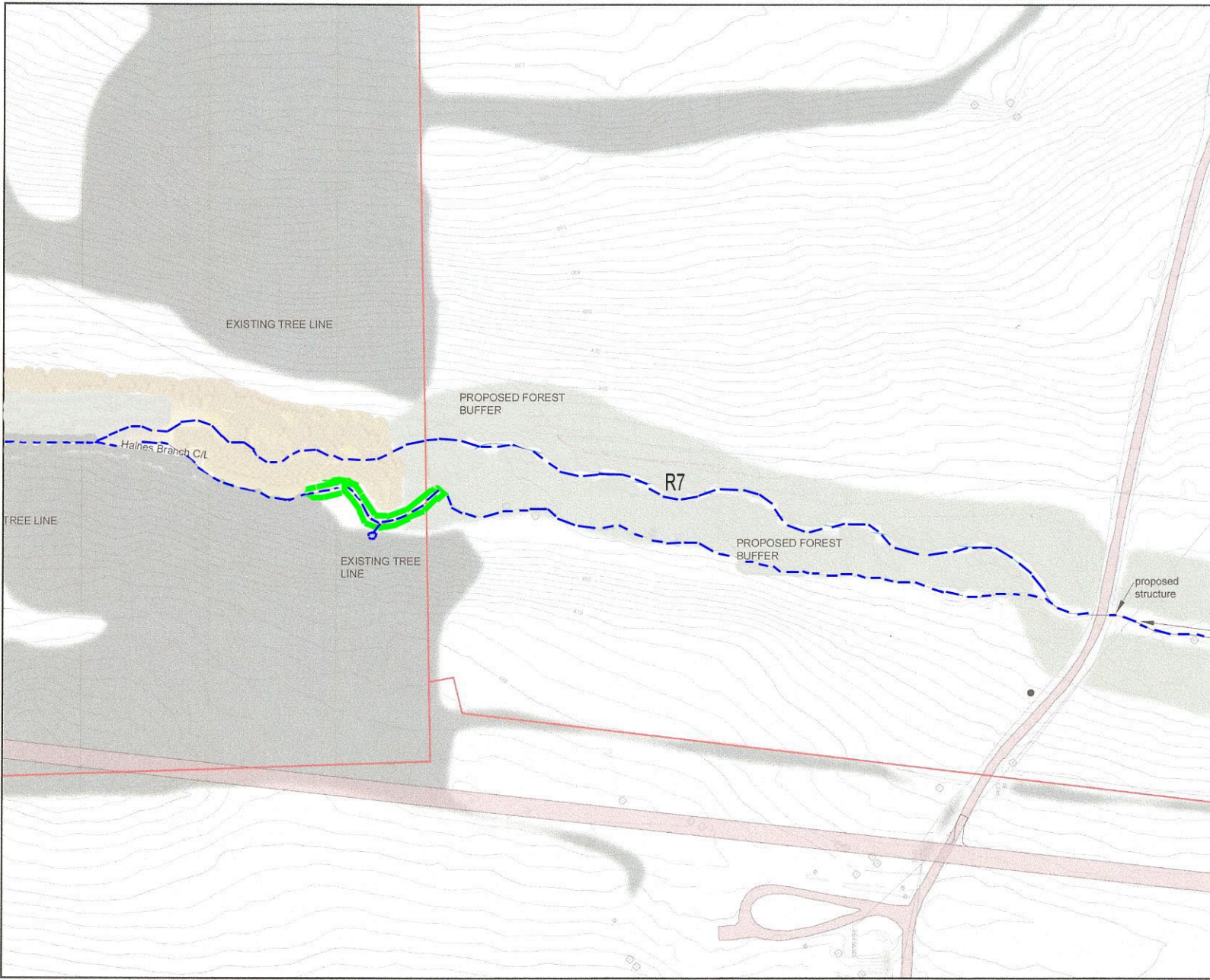
- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
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- Proposed New Stream
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 HAINES BRANCH/ FIVE DAUGHTERS RUN MITIGATION
 CONCEPT DESIGN

Date: 21 October 2009	Scale: 1"=50'	Sheet NO.: 5 of 10
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PROPOSED WETLAND TYPES:

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

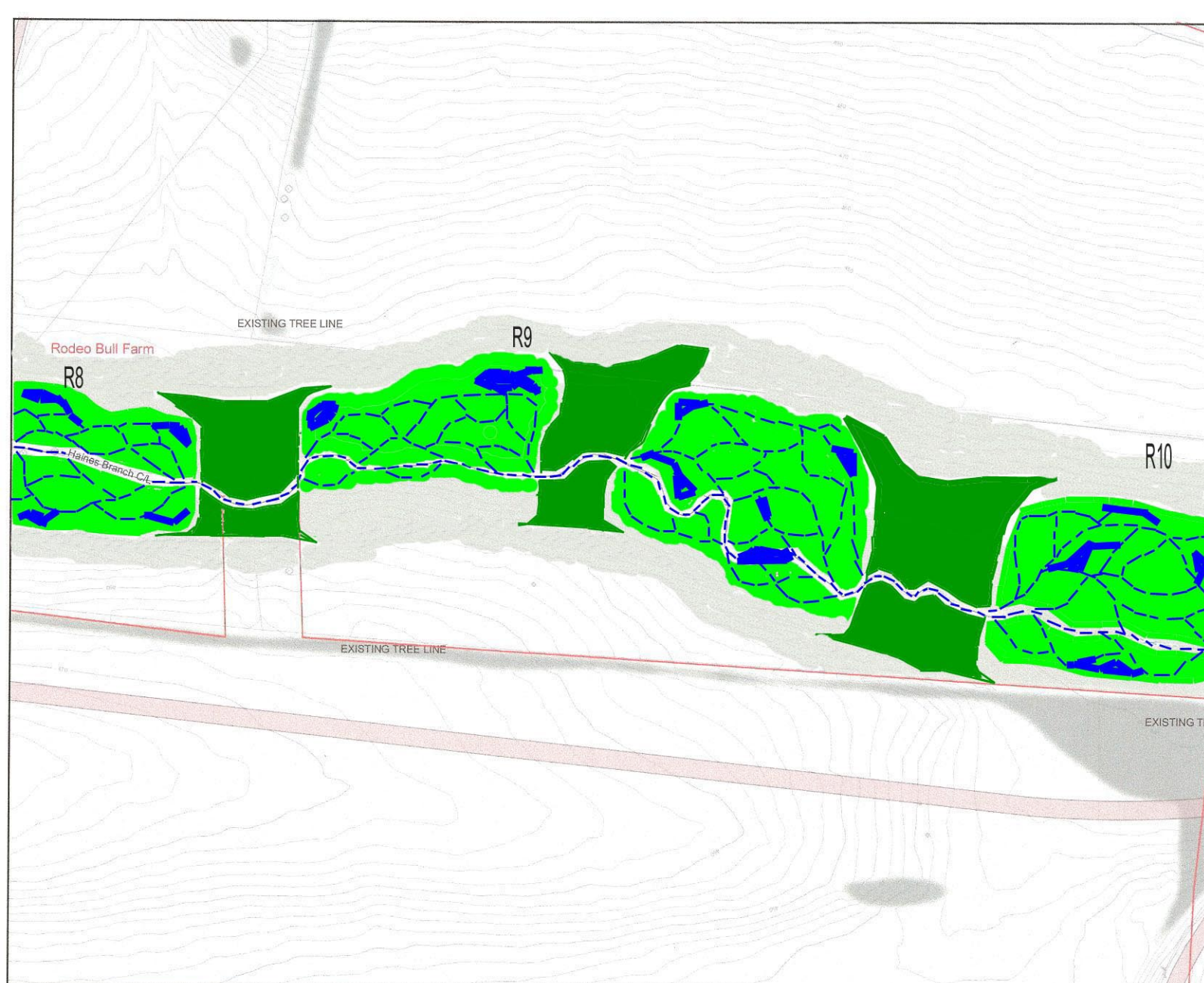
- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
- Existing Tree Line
- Existing Trees
- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line



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LEHIGH_NEW WINDSOR QUARRY EXPANSION
 HAINES BRANCH/ FIVE DAUGHTERS RUN MITIGATION
 CONCEPT DESIGN

Date: 21 October 2009 Scale: 1"=50' Sheet NO: 6 of 10



PROPOSED WETLAND TYPES:

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

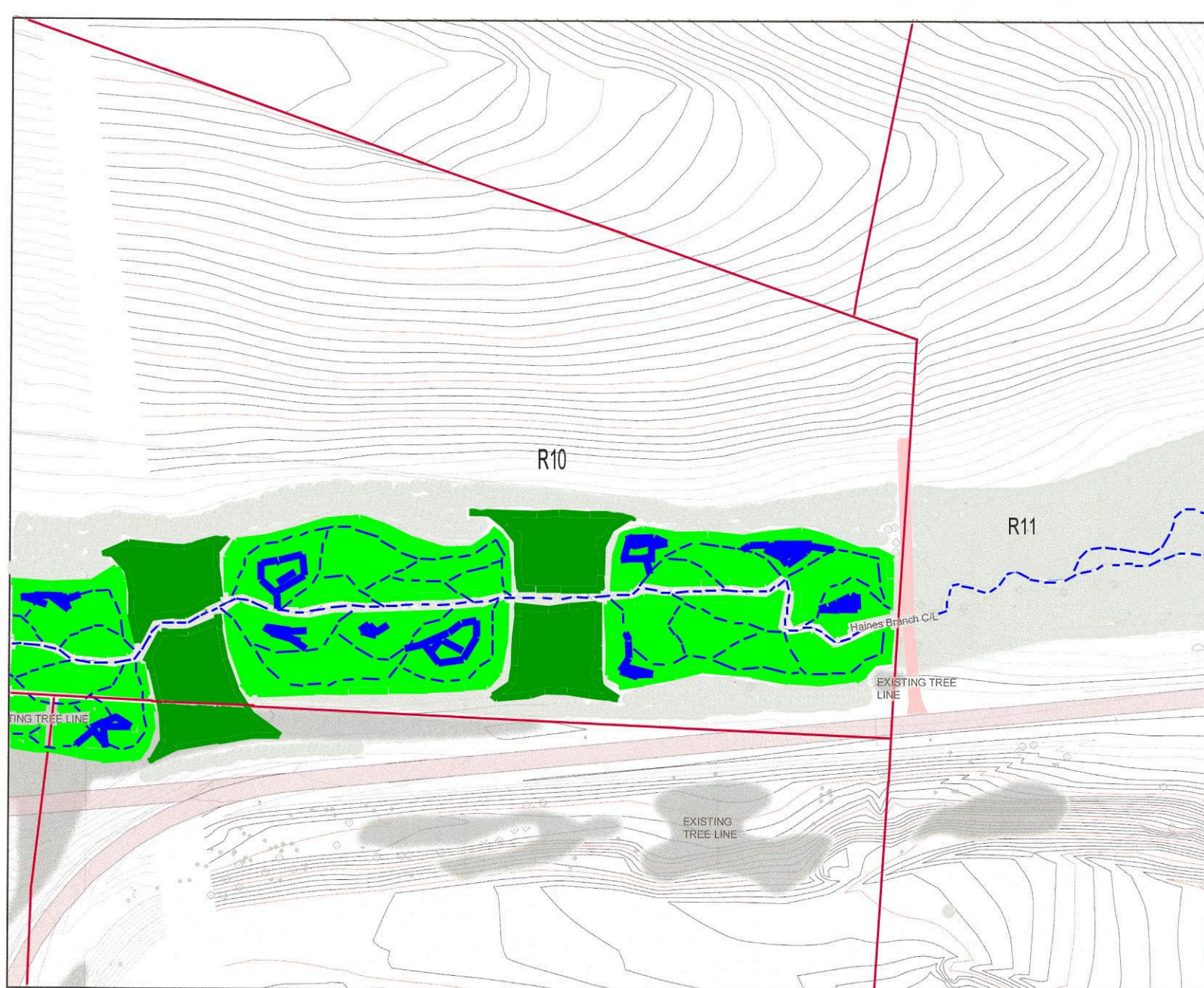
See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
- Existing Tree Line
- Existing Trees
- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line



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 CONCEPT DESIGN

Date: 21 October 2009	Scale: 1"=50'	Sheet NO: 7 of 10
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PROPOSED WETLAND TYPES:

Palustrine Emergent 1a (temporarily flooded)
 Palustrine Emergent 1c (seasonally flooded)
 Palustrine Emergent 1f (semipermanently flooded)
 Palustrine Emergent 1g (intermittently exposed)
 Palustrine Emergent 1h (permanently flooded)

See plan sheet 9 for detailed proposed plant communities for individual wetland types.

PROPOSED WARM SEASON GRASSES AREAS:

See plan sheet 9 for detailed proposed plant communities for areas with warm season grasses.

PROPOSED REFORESTATION AREAS:

See plan sheet 9 for detailed proposed plant communities for reforestation areas.

LEGEND:

- Palustrine Emergent 1a (temporarily flooded)
- Palustrine Emergent 1c (seasonally flooded)
- Palustrine Emergent 1f (semipermanently flooded)
- Palustrine Emergent 1g (intermittently exposed)
- Palustrine Emergent 1h (permanently flooded)
- Proposed Forest Buffer
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- Proposed Rock Riffle Grade Control
- Proposed Warm Season Grasses
- Proposed New Stream
- Existing Stream
- Old Stream Bed
- Proposed Fence Line



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Date: 21 October 2009 Scale: 1"=50' Sheet NO: 8 of 10

