

- Legend:**
- 1380 --- Existing 10' Contour
 - - - - - at - - - - - Existing Anchor Trench
 - - - - - Existing Gravel Road
 - AT - - - - AT** Proposed Anchor Trench
 - 1380 — Proposed Liner 2' Contour
 - 1380 — Proposed Liner 10' Contour
 - 1380 — Proposed 10' Contour
- Proposed Temporary HDPE Cover
 - Previously Deployed HDPE Cover
 - Proposed Final Capping System

- Notes:**
- Existing topography shown is from the October 9, 2013 aerial survey performed by Eastern Topographics.
 - Proposed exterior 3:1 waste grades shown are top of landfill capping system. Top of waste grades are 46" lower than top of capping system. Proposed unfinished interior slopes are top of waste grades.
 - Estimated fill volume is a comparison of the existing top of waste and proposed top of waste grades and/or top of drainage sand grades. Volume assumes the Stage 1 capping system is removed and filled with waste.
 - Filling schedule assumes a utilization rate of 290,000 tons per year at an in-place density of 0.81 tons per cubic yard.
 - Proposed temporary HDPE cover to be installed within 6 months of the actual sequence fill date, or during the next construction season if the 6 month period extends into the winter months.
 - A temporary stormwater collection berm shall be constructed and the western portion of Stage V shall be covered with temporary HDPE cover prior to operation as shown on this sheet. Stormwater shall be collected in this area and managed by pumping.

Sequence 1 Volume = 734,900 CY
 Cumulative Volume = 734,900 CY
 Anticipated Duration = 2.1 Years
 Anticipated Fill Date = October 2015

LIMIT OF WETLANDS DELINEATED BY B.H. KEITH ASSOCIATES IN AUGUST 1995

PROPOSED TEMPORARY HDPE COVER

PREVIOUSLY DEPLOYED HDPE COVER

PROPOSED FINAL CAPPING SYSTEM

	revision	date	by				
1	Issued for MHDES Review - Supplemental Submittal	3/7/14	R/JG				

<p>CMA ENGINEERS CIVIL/ENVIRONMENTAL ENGINEERS</p> <p>35 Bow Street Portsmouth, NH 03801 603.437-6196</p>	<p>Lafayette Center Stover Street Building Suite 208 Kennebunk, ME 02048 207.965-8717</p> <p>www.cmaengineers.com</p>
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designed by:	R/JG/BWS	drawn by:	BWS	approved by:	R/JG
date:	February 2014	project no:	833	scale:	1" = 100'
file name:	833-Fill Sequence 1403.dwg				

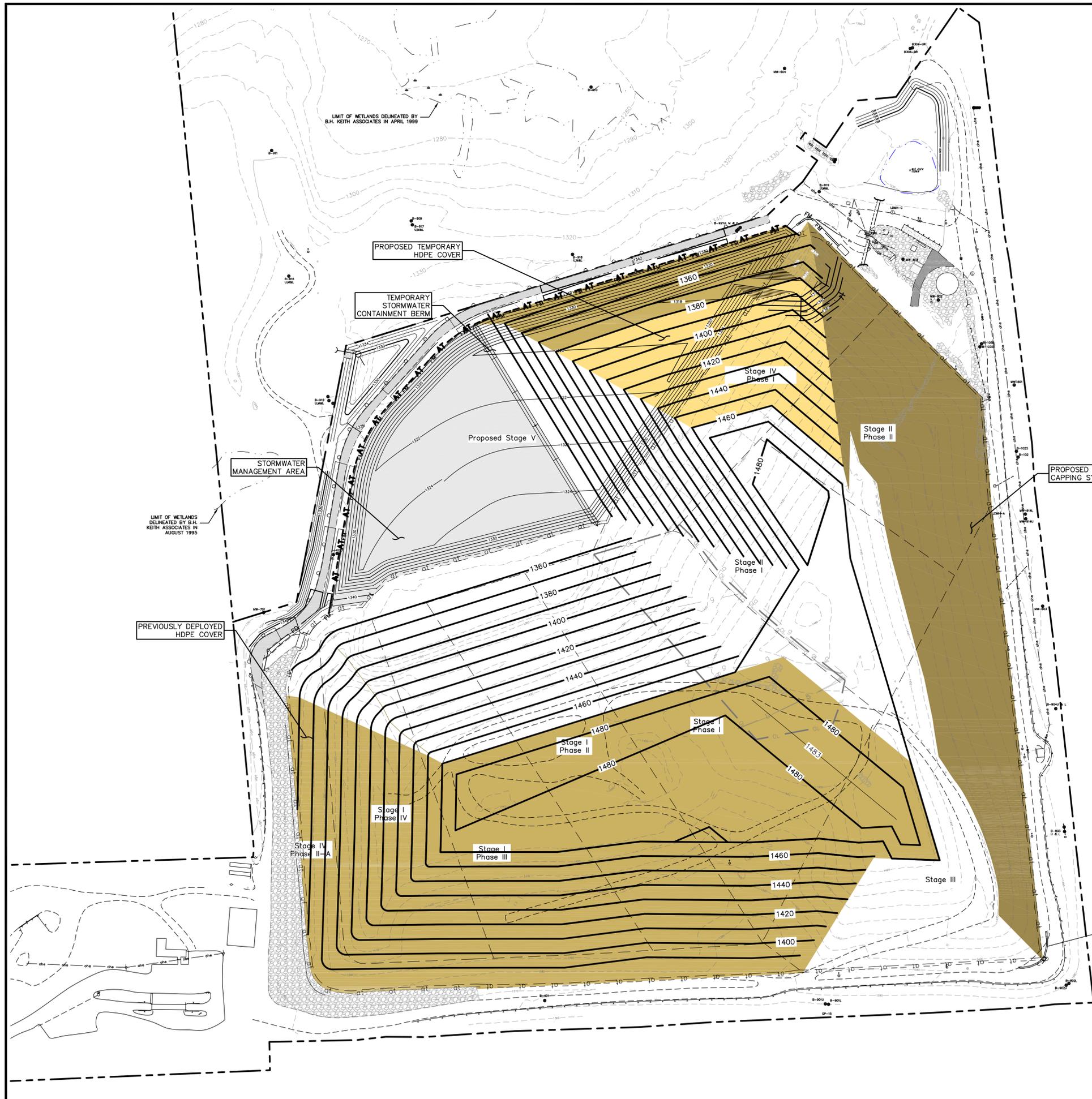
North Country Environmental Services Bethlehem, NH	Stage IV Phase II & Stage V Filling & Interim Closure Plan Sequence 1
drawing no.	1
sheet:	1 of 5



- Legend:**
- 1380 --- Existing 10' Contour
 - - - - - Existing Anchor Trench
 - Existing Gravel Road
 - AT - - - AT** Proposed Anchor Trench
 - 1380 --- Proposed Liner 2' Contour
 - 1380 --- Proposed Liner 10' Contour
 - 1380 --- Proposed 10' Contour
- Proposed Temporary HDPE Cover
 - Previously Deployed HDPE Cover
 - Proposed Final Capping System
 - Temporary HDPE Cover for Stormwater Containment
- Notes:**
- Existing topography shown is from the October 9, 2013 aerial survey performed by Eastern Topographics.
 - Proposed exterior 3:1 waste grades shown are top of landfill capping system. Top of waste grades are 46" lower than top of capping system. Proposed unfinished interior slopes are top of waste grades.
 - Estimated fill volume is a comparison of the existing top of waste and proposed top of waste grades and/or top of drainage sand grades. Volume assumes the Stage 1 capping system is removed and filled with waste.
 - Filling schedule assumes a utilization rate of 290,000 tons per year at an in-place density of 0.81 tons per cubic yard.
 - Proposed temporary HDPE cover to be installed within 6 months of the actual sequence fill date, or during the next construction season if the 6 month period extends into the winter months.
 - A temporary stormwater collection berm shall be constructed and the western portion of Stage V shall be covered with temporary HDPE cover prior to operation as shown on this sheet. Stormwater shall be collected in this area and managed by pumping.

Sequence 2 Volume = 361,100 CY
 Cumulative Volume = 1,096,000 CY
 Anticipated Duration = 1.0 Years
 Anticipated Fill Date = October 2016

drawing no.	2	of	5	sheet:	2
North Country Environmental Services Bethlehem, NH Stage IV Phase II & Stage V Filling & Interim Closure Plan Sequence 2					
date:	February 2014	project no.:	833	designed by:	R/G/BWS
file name:	833-Fill Sequence 1403.dwg	drawn by:	BWS	approved by:	R/G
CMA ENGINEERS CIVIL/ENVIRONMENTAL ENGINEERS Lafayette Center Shaw Street Building Suite 208 Kennebunk, ME 02046 603/627-0708 207/965-8717 www.cmaengineers.com info@cmaengineers.com					
Issued for MDES Review - Supplemental Submittal date: 3/7/14 revision:					
no. 1					

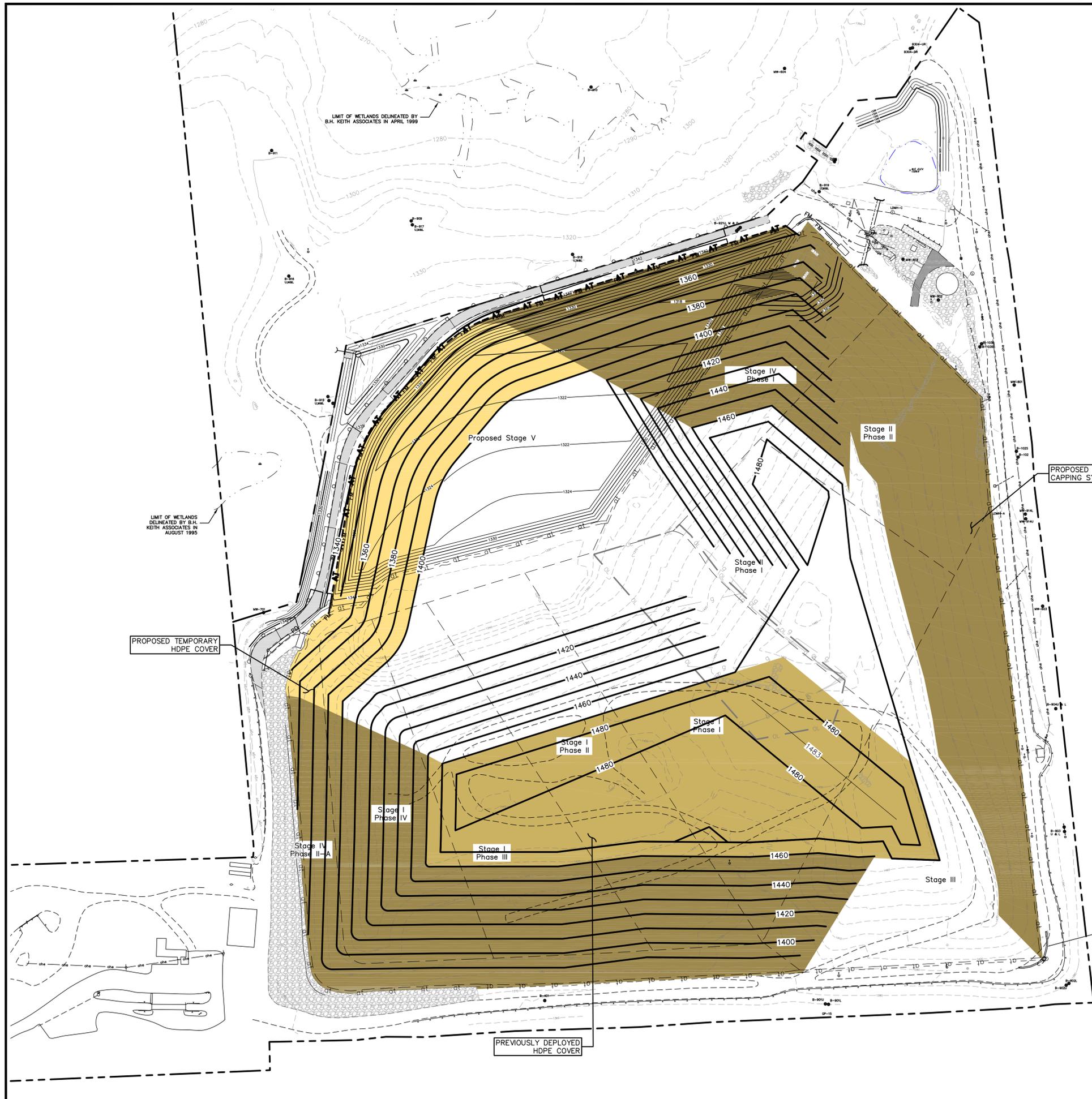


- Legend:**
- Existing 10' Contour
 - - - Existing Anchor Trench
 - Existing Gravel Road
 - AT - - AT** Proposed Anchor Trench
 - Proposed Liner 2' Contour
 - Proposed Liner 10' Contour
 - Proposed 10' Contour
- Proposed Temporary HDPE Cover
 - Previously Deployed HDPE Cover
 - Proposed Final Capping System
 - Temporary HDPE Cover for Stormwater Containment

- Notes:**
1. Existing topography shown is from the October 9, 2013 aerial survey performed by Eastern Topographics.
 2. Proposed exterior 3:1 waste grades shown are top of landfill capping system. Top of waste grades are 46" lower than top of capping system. Proposed unfinished interior slopes are top of waste grades.
 3. Estimated fill volume is a comparison of the existing top of waste and proposed top of waste grades and/or top of drainage sand grades. Volume assumes the Stage 1 capping system is removed and filled with waste.
 4. Filling schedule assumes a utilization rate of 290,000 tons per year at an in-place density of 0.81 tons per cubic yard.
 5. Proposed temporary HDPE cover to be installed within 6 months of the actual sequence fill date, or during the next construction season if the 6 month period extends into the winter months.
 6. A temporary stormwater collection berm shall be constructed and the western portion of Stage V shall be covered with temporary HDPE cover prior to operation as shown on this sheet. Stormwater shall be collected in this area and managed by pumping.

Sequence 3 Volume = 216,700 CY
 Cumulative Volume = 1,312,700 CY
 Anticipated Duration = 0.6 Years
 Anticipated Fill Date = June 2017

North Country Environmental Services Bethlehem, NH Stage IV Phase II & Stage V Filling & Interim Closure Plan Sequence 3	designed by: R/G/BWS	date: February 2014	project no: 833	approved by: R/G	
	drawn by: BWS	file name: 833-Fill Sequence 1403.dwg	revision Issued for MDES Review - Supplemental Submittal	no. 1	
CIVIL/ENVIRONMENTAL ENGINEERS Lafayette Center Shaw Street Building Suite 208 Kennebunk, ME 02046 207/985-8717 www.cmaaengineers.com 35 Bow Street Portsmouth, NH 03801 603/437-6196 603/627-0708 info@cmaaengineers.com					
sheet: 3 of 5		drawing no. 3			



Legend:

- 1380 --- Existing 10' Contour
- - - - - Existing Anchor Trench
- Existing Gravel Road
- AT - - AT** Proposed Anchor Trench
- 1380 — Proposed Liner 2' Contour
- 1380 — Proposed Liner 10' Contour
- 1380 — Proposed 10' Contour

- Proposed Temporary HDPE Cover
- Previously Deployed HDPE Cover
- Proposed Final Capping System

- Notes:**
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 - Filling schedule assumes a utilization rate of 290,000 tons per year at an in-place density of 0.81 tons per cubic yard.
 - Proposed temporary HDPE cover to be installed within 6 months of the actual sequence fill date, or during the next construction season if the 6 month period extends into the winter months.

Sequence 4 Volume = 581,200 CY
 Cumulative Volume = 1,893,900 CY
 Anticipated Duration = 1.6 Years
 Anticipated Fill Date = January 2019

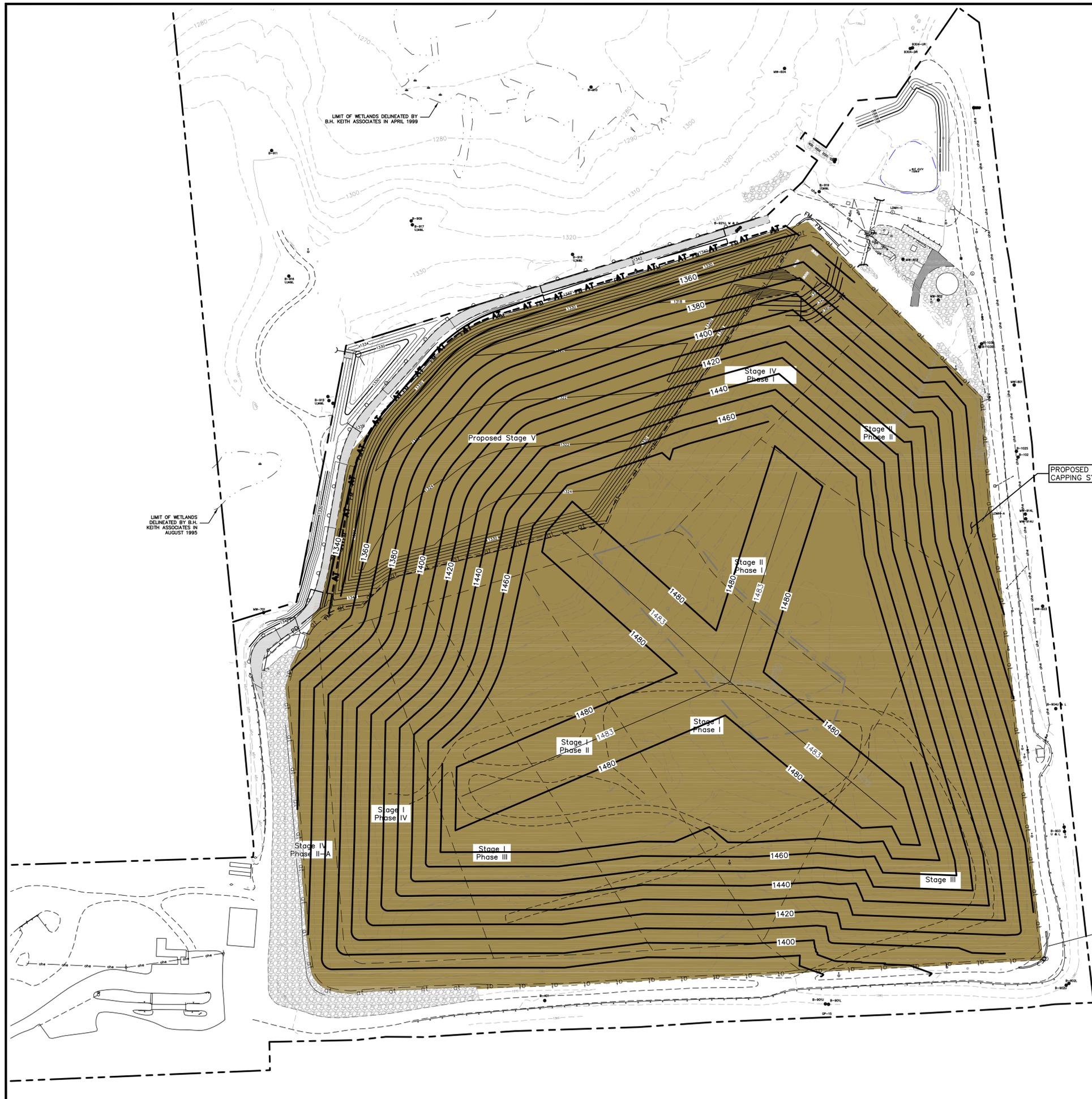
	revision	date	by				
1	Issued for MDES Review - Supplemental Submittal	3/7/14	R/J				

<p>CIVIL/ENVIRONMENTAL ENGINEERS</p>	<p>35 Bow Street Portsmouth, NH 03801 603.437-6196</p> <p>55 So. Commercial Street Manchester, NH 03102 603.627-0708</p> <p>Lafayette Center Stear Street Building Suite 208 Kennebunk, ME 02046 207.985-8717</p> <p>www.cmaaengineers.com</p>
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date:	February 2014	designed by:	R/J/BWS	
project no.:	833	drawn by:	BWS	
file name:	833-Fill Sequence 1403.dwg	approved by:	R/J	

<p>North Country Environmental Services Bethlehem, NH</p> <p>Stage IV Phase II & Stage V Filling & Interim Closure Plan</p> <p>Sequence 4</p>	
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drawing no. 4	sheet: 4 of 5
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Legend:

- 1380 --- Existing 10' Contour
- - - - - Existing Anchor Trench
- - - - - Existing Gravel Road
- AT - - AT** Proposed Anchor Trench
- 1380 — Proposed Liner 2' Contour
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- Proposed Temporary HDPE Cover
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- Notes:**
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 - Filling schedule assumes a utilization rate of 290,000 tons per year at an in-place density of 0.81 tons per cubic yard.
 - Proposed temporary HDPE cover to be installed within 6 months of the actual sequence fill date, or during the next construction season if the 6 month period extends into the winter months.

Sequence 5 Volume = 931,100 CY
 Cumulative Volume = 2,825,000 CY
 Anticipated Duration = 2.6 Years
 Anticipated Fill Date = August 2021

	revision	date	by	
1	Issued for MDES Review - Supplemental Submittal	3/7/14	RJG	
<p>North Country Environmental Services Bethlehem, NH</p> <p>Stage IV Phase II & Stage V Filling & Interim Closure Plan</p> <p style="text-align: right;">Sequence 5</p>				
<p>designed by: RJG/BWS drawn by: BWS approved by: RJG</p> <p>file name: 833-Fill Sequence 1403.dwg</p>				
<p>date: February 2014 project no: 833</p>				
<p>Scale: 1" = 100'</p>				
<p>North Country Environmental Services Bethlehem, NH</p>				
<p>Sequence 5</p>				
<p>drawing no. 5 of 5</p>				

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