

Case # 267-268 - 2&3/2&2-1 - RI/A - 17 Property Address 176 Rochester Neck Road (previously 30 RNR)

Project name Site Plan for TLR-III Refuse Disposal Facility - South Area

Description of amendment	
	<p data-bbox="512 756 1342 760">Construct a temporary soil stockpile next to the TLR-III South Area. The location is next to the</p> <p data-bbox="512 760 1342 762">existing materials management area (consisting of soil stockpiles) and a future stormwater pond. Please see the accompanying letter</p> <p data-bbox="512 762 1342 766">and supporting documentation.</p>


Name of applicant or agent filling out this form Bob Magnusson

Mailing Address: 14 Taylor Avenue, Rochester, NH

Phone Number: 603-330-2164 Email Address: bmagnusson@wm.com

Please check box: **Applicant** ☒ **Agent** ☐

Please note: There is a \$125.00 fee for amendments. They are reviewed by the Planning Board and a public hearing is held. Abutters must be renotified by the applicant. The applicant must submit any supplementary materials necessary to explain and support the amendment, such as a narrative and plans. This form, the abutter's list, the fee when applicable, and other necessary materials must be submitted at least 17 days prior to the Planning Board meeting at which the amendment will be presented (by the Friday, 2-1/2 weeks prior to the meeting to allow for public notice).

Signature of person completing form:  Date: 3/12/21

Signature of property owner (if different): _____ Date: _____



March 12, 2021

Ms. Shanna B. Saunders
Director of Planning and Development
City of Rochester
33 Wakefield Street
Rochester, New Hampshire 03867

TURNKEY RECYCLING & ENVIRONMENTAL ENTERPRISE

30 Rochester Neck Road
P.O. Box 7065
Rochester, NH 03839
(603) 330-2197
(603) 330-2130 Fax

Re: Amendment to Approved Project – East Soil Stockpile
Site Plan for TLR-III South Area (Case# 267/268 – 2&3/2&2-1 – RI/A – 17)
Turnkey Recycling and Environmental Enterprise (TREE)
Rochester, New Hampshire

Dear Ms. Saunders:

Waste Management of New Hampshire, Inc. (WMNH) requests an amendment to the approved TLR-III Refuse Disposal Facility – South Area (TLR-III South Area) Site Plan (Case# 267/268 – 2&3/2&2-1 – RI/A – 17) approved on December 4, 2017. An Amendment to Approved Projects form is enclosed. This letter was prepared to provide additional information to support the amendment request, including the abutter list and associated fees.

For the amendment, WMNH will construct a temporary soil stockpile (aka East Soil Stockpile) to support its current construction activities at the TREE facility. The East Soil Stockpile will be constructed east of the permitted TLR-III landfill and Pond 3. The soil to be stockpiled is being excavated from within the permitted limits of the TLR-III South Area, which was permitted under New Hampshire Department of Environmental Services (NHDES) Alteration of Terrain (AoT) Permit AoT-1416C.

The proposed approximately 5-acre East Soil Stockpile area is currently open space with open field and light brush cover. The existing ground slopes from the eastern limit of the existing Materials Management Area (MMA) and stormwater sheet flows east to the through the brush area and ultimately discharges to the confluence of Cocheco and Isinglass Rivers as shown on Sheets 2 and 3 of the enclosed East Soil Stockpile Drawings (Drawings). There are no wetland impacts associated with the proposed East Soil Stockpile project as determined by B.H. Keith Associates of Freedom, New Hampshire and it will not be constructed within the 100-year floodplain or within the wetland buffers. Inspection of the site occurred on February 13, 2021 and February 24, 2021.

Development of the East Soil Stockpile is illustrated on Sheet 4 of the Drawings. As shown, the stockpile development will not impact other operations at the TREE facility and a gravel access road will be construction on the north side to maintain access to the adjacent agricultural field. Stormwater from the upper portion of the East Soil Stockpile will be

From everyday collection to environmental protection, Think Green? Think Waste Management.

collected in a sideslope swale and conveyed to the East Soil Stockpile Basin, which discharges into the permitted Pond 3 riprap-lined swale. Stormwater from the below the side slope swale will follow the existing drainage patterns.

Because the East Soil Stockpile area exceeds 100,000 square feet, WMNH is applying for an AoT permit. The drainage calculations prepared for the AoT permit application indicate that the post-development peak runoff is similar to and will not exceed the pre-development runoff. Drainage calculations can be provided upon request. The proposed East Soil Stockpile Basin will provide storage capacity to attenuate the post-development flows from the stockpile and will provide the required treatment of stormwater. The pond outlet structures, swale linings, and outlet protection measures were designed to limit the potential for erosion. Furthermore, temporary erosion control measures will be installed to protect down-gradient areas from sedimentation during the development of the stockpile, and will remain in place until vegetation is established. WMNH will continue to maintain and update the facility SWPPP for this development, as required under the USEPA's NPDES MSGP.

WMNH understands that an amendment to the approved Site Plan is the appropriate means for obtaining City approval for the project for the following reasons:

1. The project directly supports and is adjacent to the TLR-III South Area project previously approved by the Planning Board.
2. The location is only accessible by private access roads on WMNH's property.
3. The scope of the project relative to the overall TLR-III South Area project is small.
4. There are no proposed new structures, car parking, or utility connections.
5. The proposed stormwater features are temporary will discharge to previously permitted/approved stormwater management features.
6. There is no wetland disturbance or encroachment on wetland buffers.
7. There is no need for connections to City services.

We appreciate your timely review and processing of this request and understand that the amendment will be presented to the City Planning Board on April 5, 2021. Please contact me at 330-2140 or areichert@wm.com should you require additional information regarding this proposed redevelopment.

Sincerely,
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.



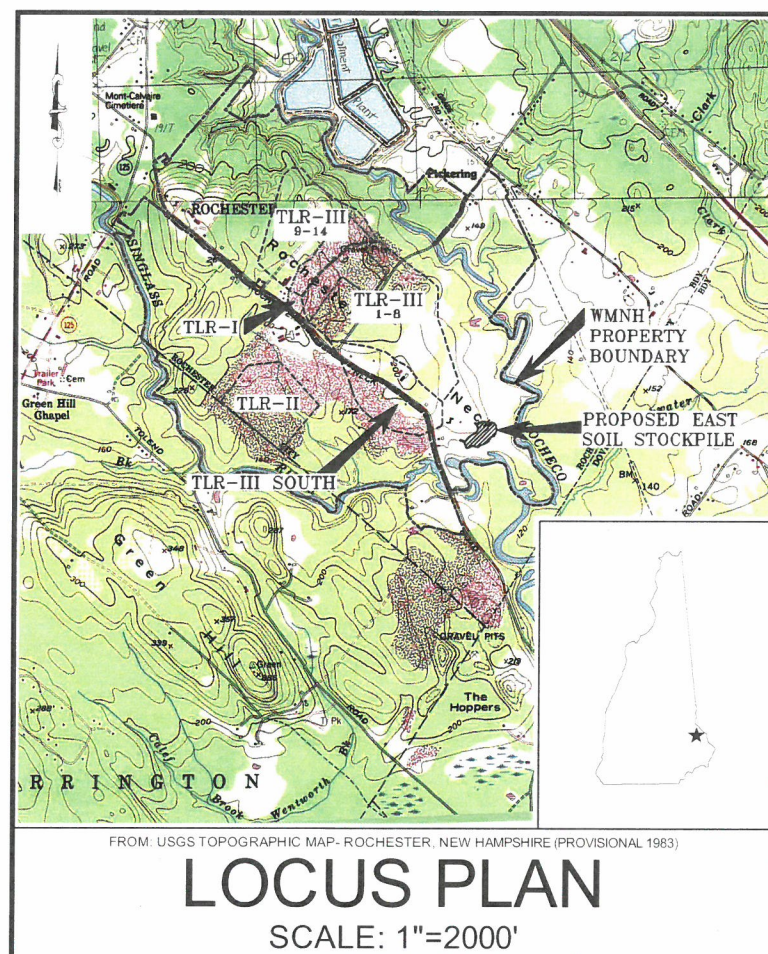
Anne Reichert, P.E.
Construction Project Manager

Enclosures: Amendment to Approved Projects form
Abutters List
East Soil Stockpile Drawings

Application Fee (provided separately)

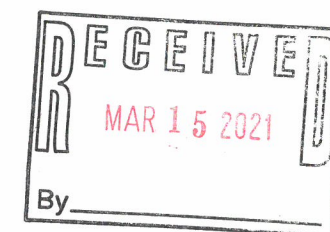
Copies to: Bob Magnusson, WMNH
Eric Steinhauser, Sanborn Head

CONSTRUCTION DRAWINGS EAST SOIL STOCKPILE WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. ROCHESTER, NEW HAMPSHIRE MARCH 2021



SHEET INDEX

SHEET NO.	TITLE
1	NOTES, ABBREVIATIONS, AND LEGEND
2	OVERALL SITE PLAN
3	EXISTING CONDITIONS PLAN
4	SITE DEVELOPMENT AND EROSION AND SEDIMENT CONTROL PLAN
5	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
6	EAST STOCKPILE POND DETAILS
7	POTENTIAL THREATENED OR ENDANGERED SPECIES FLYERS



- NOT FOR CONSTRUCTION -



PREPARED FOR:



WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
14 TAYLOR AVENUE, ROCHESTER, NEW HAMPSHIRE

PREPARED BY:

SANBORN HEAD

20 FOUNDRY STREET, CONCORD, NEW HAMPSHIRE 03301
(603) 229-1900 FAX (603) 229-1919

REFERENCE NOTES

1. THE EXISTING TOPOGRAPHY AND SITE FEATURES PRESENTED ON THESE DRAWINGS REPRESENT THE ANTICIPATED CONDITIONS AT THE START OF CONSTRUCTION AND ARE BASED ON THE ONGOING TLR-III SOUTH AREA INITIAL CONSTRUCTION PROJECT AND THE RESOURCES LISTED BELOW. THE SITE TOPOGRAPHY AND SITE FEATURES MAY BE DIFFERENT AT THE TIME OF CONSTRUCTION.
2. EXISTING TOPOGRAPHY AND SITE FEATURES WERE PROVIDED TO SANBORN HEAD IN AN ELECTRONIC FILE TITLED "30900206-0011-2020_MAPPING-REV1.dwg" PREPARED FROM AERIAL PHOTOGRAMMETRIC METHODS BY WSP USA INC. OF MERRIMACK, NEW HAMPSHIRE FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. (WMNH) USING AERIAL PHOTOGRAPHY DATED APRIL 23, 2020 AT AN ORIGINAL SCALE OF 1" = 100' AND CONTOUR INTERVAL OF 2 FEET. VERTICAL DATUM IS BASED ON NGVD 1929. HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 1983 (US SURVEY FEET).
3. VERTICAL DATUM IS BASED ON NGVD 1929. GRID IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 1983.
4. WETLANDS SHOWN REPRESENT A COMPILATION OF INFORMATION OBTAINED USING EXISTING AERIAL PHOTOGRAPHY, SOILS INFORMATION, U.S.F.W.S. NATIONAL WETLAND INVENTORY MAPS, AND DELINEATIONS PERFORMED IN OCTOBER AND DECEMBER 2014 AND SUPPLEMENTED WITH ADDITIONAL DELINEATIONS PERFORMED BETWEEN SEPTEMBER 2000 AND JUNE 2015 BY BARRY H. KEITH, NH CWS #087, IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.01 (A-C) USING THE METHODS OUTLINED IN THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 (JANUARY 1987) AND FIELD IDENTIFYING HYDRIC SOILS IN NEW ENGLAND (VERSION II) PUBLISHED BY THE N.E. INTERSTATE WATER POLLUTION CONTROL COMMISSION. WETLAND AREAS WERE CLASSIFIED IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.02 USING THE USFWS/OBS-79/31 MANUAL CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES (COWARDIN ET AL. 1979).
5. THE 100-YEAR AND 500-YEAR FLOODPLAINS ARE BASED ON INFORMATION PROVIDED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "FLOOD INSURANCE RATE MAP, STRAFFORD COUNTY, NEW HAMPSHIRE" PANEL 302 OF 405, LAST REVISED ON SEPTEMBER 30, 2015.
6. PROPERTY LINE INFORMATION WAS TAKEN FROM THE FOLLOWING:
 - A. A PLAN TITLED "BOUNDARY COMPILATION AND FOOTPRINT COMPILATION OF TLR-I AND TLR-II, ROCHESTER NECK ROAD, ROCHESTER, NEW HAMPSHIRE" PREPARED FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. BY CHAS. H. SELLS, INC. OF NASHUA, NEW HAMPSHIRE DATED JANUARY 29, 2002 AT A SCALE OF 1" = 300'.
 - B. A PLAN TITLED "PLAN OF LAND, 36 ROCHESTER NECK ROAD, ROCHESTER, NEW HAMPSHIRE (MAP 262, LOT 23)" PREPARED BY WSP USA, INC. OF NASHUA, NEW HAMPSHIRE DATED OCTOBER 2, 2018 AT A SCALE OF 1" = 80'.
 - D. PLANS TITLED "ROCHESTER NECK ROAD DISCONTINUANCE PLAN" AND "ROCHESTER NECK ROAD RELOCATION," BOTH DATED SEPTEMBER 29, 2020, PREPARED FOR WMNH BY WSP USA, INC. OF MERRIMACK, NH.
 - E. A PLAN TITLED "PROPOSED CONDITIONS PLAN, PARCELS 267-3 & 267-4 LOT LINE REVISION," DATED AUGUST 2020 AND REVISED OCTOBER 2020, PREPARED FOR WMNH BY SANBORN HEAD.
8. ZONING INFORMATION IS BASED ON A PLAN TITLED "CITY OF ROCHESTER, ZONING MAP" ADOPTED APRIL 14, 2014 AND LAST AMENDED FEBRUARY 6, 2018.
9. THE EXISTING UTILITIES SHOWN ON THESE PLANS DO NOT REPRESENT A COMPLETE COMPILATION OF ALL UTILITIES INSTALLED AT THE SITE. THE CONTRACTOR SHALL COORDINATE WITH WMNH TO REVIEW ALL AS-BUILT DRAWINGS PRIOR TO EXCAVATING. DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION WILL BE REPAIRED PROMPTLY BY THE CONTRACTOR AT NO COST TO WMNH.

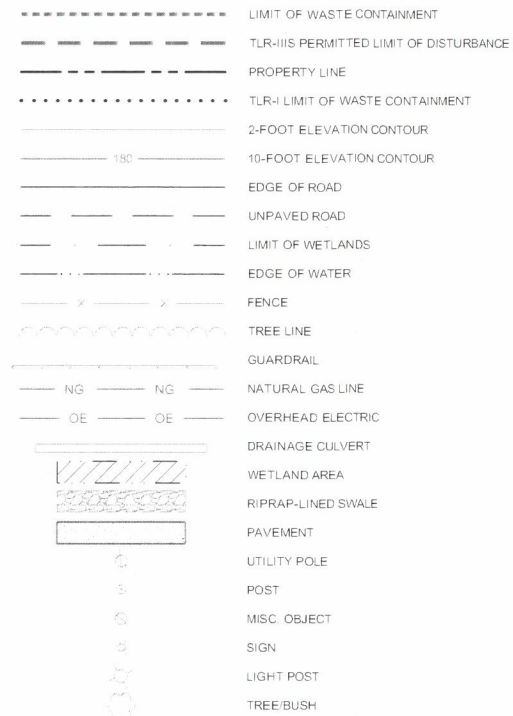
CONSTRUCTION SEQUENCE

THE FOLLOWING SCHEDULE IS NOT INTENDED TO PRESENT A DETAILED REPRESENTATION OF THE WORK TO BE PERFORMED BY THE CONTRACTOR. THE FOLLOWING SCHEDULE OUTLINES THE SIGNIFICANT ASPECTS OF THE PROJECT IN AN ORDER THAT SHOULD BE CONSIDERED BY THE CONTRACTOR WHEN SCHEDULING THE WORK. THE ACTUAL SCHEDULE AND ORDER OF WORK SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AND WMNH FOR REVIEW AND APPROVAL. THE SCHEDULE SHALL BE BASED ON THE PROJECT COMPONENTS, AS DEFINED IN THE DRAWINGS AND SPECIFICATIONS AND INTENDED TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

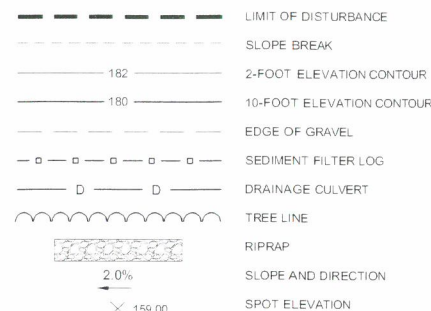
1. MOBILIZE TO SITE AND ESTABLISH VERTICAL AND HORIZONTAL CONTROL FOR THE PROJECT
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES
3. CLEAR AND GRUB, STRIP AND STOCKPILE TOPSOIL
4. CONSTRUCT EAST SOIL STOCKPILE BASIN AND OUTLET STRUCTURE
5. PLACE SOIL IN STOCKPILE AREA
6. CONSTRUCT SIDE SLOPE SWALES AS SOIL IS PLACED TO GRADE
7. REMOVE EROSION CONTROLS ONCE SLOPES ARE STABILIZED
8. PREPARE AS-BUILT DRAWINGS
9. DEMOBILIZE FROM THE SITE

LEGEND

EXISTING CONDITIONS



PROPOSED CONDITIONS



ABBREVIATIONS

Ø	DIAMETER	MRF	MATERIALS RECOVERY FACILITY
%	PERCENT	N	NORTHING, NORTH
CMP	CORRUGATED METAL PIPE	OD	OUTER DIAMETER
CPP	CORRUGATED POLYETHYLENE PIPE	OZ/YD	OUNCE PER SQUARE YARD
DMH	DRAIN MANHOLE	PVC	POLYVINYL CHLORIDE
E	EASTING, EAST	REQD	REQUIRED
EL	ELEVATION	SCH	SCHEDULE
GA	GAUGE	S	SOUTH
HDPE	HIGH DENSITY POLYETHYLENE	STA	STATION
INV	INVERT	SQ	SQUARE
MAX	MAXIMUM	SY	SQUARE YARD
MIN	MINIMUM	TLR	TURNKEY LANDFILL OF ROCHESTER
		TYP	TYPICAL
		W	WEST

DESIGN NOTES

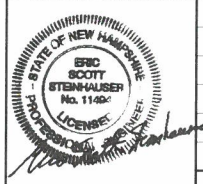
1. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE PRIOR TO INITIATING EARTHWORK.
2. THE CONTRACTOR SHALL COORDINATE WITH WMNH TO REVIEW ALL AS-BUILT DRAWINGS TO LOCATE EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION WILL BE REPAIRED PROMPTLY BY THE CONTRACTOR AT NO COST TO WMNH.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS NOT ALREADY OBTAINED BY WMNH.

NATURAL RESOURCES NOTES
(COMPLIES WITH ENV-WQ 1503.19 (H))

1. AVOID TREE CLEARING FROM JUNE 1 TO JUNE 30.
2. WELDED PLASTIC OR "BIODEGRADABLE PLASTIC" NETTING OR THREAD (e.g. POLYPROPYLENE) IN EROSION CONTROL MATTING SHALL NOT BE USED. THE USE OF EROSION CONTROL BERM, WHITE FILTREXX, DEGRADABLE WOVEN SILT SOCK OR WOVEN ORGANIC MATERIALS (e.g. COCO OR JUTE MATTING SUCH AS NORTHERN AMERICAN GREEN SC150BN) SHALL BE USED. SEE SHEET 5 FOR DETAILS.
3. CONTRACTOR SHALL BE AWARE OF THE POTENTIAL FOR THREATENED AND ENDANGERED SPECIES WITHIN THE PROJECT AREA. SPECIFICALLY THE NORTHERN BLACK RACER SNAKE AND TURTLES. SEE SHEET 7 FOR ADDITIONAL INFORMATION ON IDENTIFICATION. OBSERVATION OF THESE THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED TO NHFG VIA EMAIL TO RAARP@WLDLIFE.NH.GOV AND MELISSA.DOPERSLSKI@WLDLIFE.NH.GOV. EMAIL SUBJECT LINE ROCHESTER MATERIALS RECOVERY FACILITY NH820-1358. PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE. NHFG SHALL BE CONTACTED IMMEDIATELY IF ANY SPECIES ARE OBSERVED TO BE NESTING OR MAY POSSIBLY BE NESTING.
4. IF ANY THREATENED OR ENDANGERED SPECIES ARE OBSERVED WITHIN THE DISTURBANCE AREA AND IT IS SAFE TO DO SO, MOVE TO THE CLOSEST LOCATION IN THE DIRECTION THE WERE HEADING AND CONTACT NHFG MELISSA DOPERSLSKI TEXT OR PHONE 603-479-1129 OR CONTACT THE NHFG WLDLIFE ADMINISTRATOR AT 603-271-2461. INCLUDE PHOTOGRAPH AS FEASIBLE.
5. NHFG SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
6. NO PESTICIDES SHALL BE USED IN LANDSCAPING.

- NOT FOR CONSTRUCTION -

SCALE: AS NOTED

[illegible]

DRAWN BY: S. PERRY
DESIGNED BY: A. MATTHEWS
REVIEWED BY: K. ANDERSON
PROJECT MGR: A. MATTHEWS
PIC: E. STEINHAUSER
DATE: MARCH 2021

CONSTRUCTION DRAWINGS
EAST SOIL STOCKPILE
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

PROJECT NUMBER

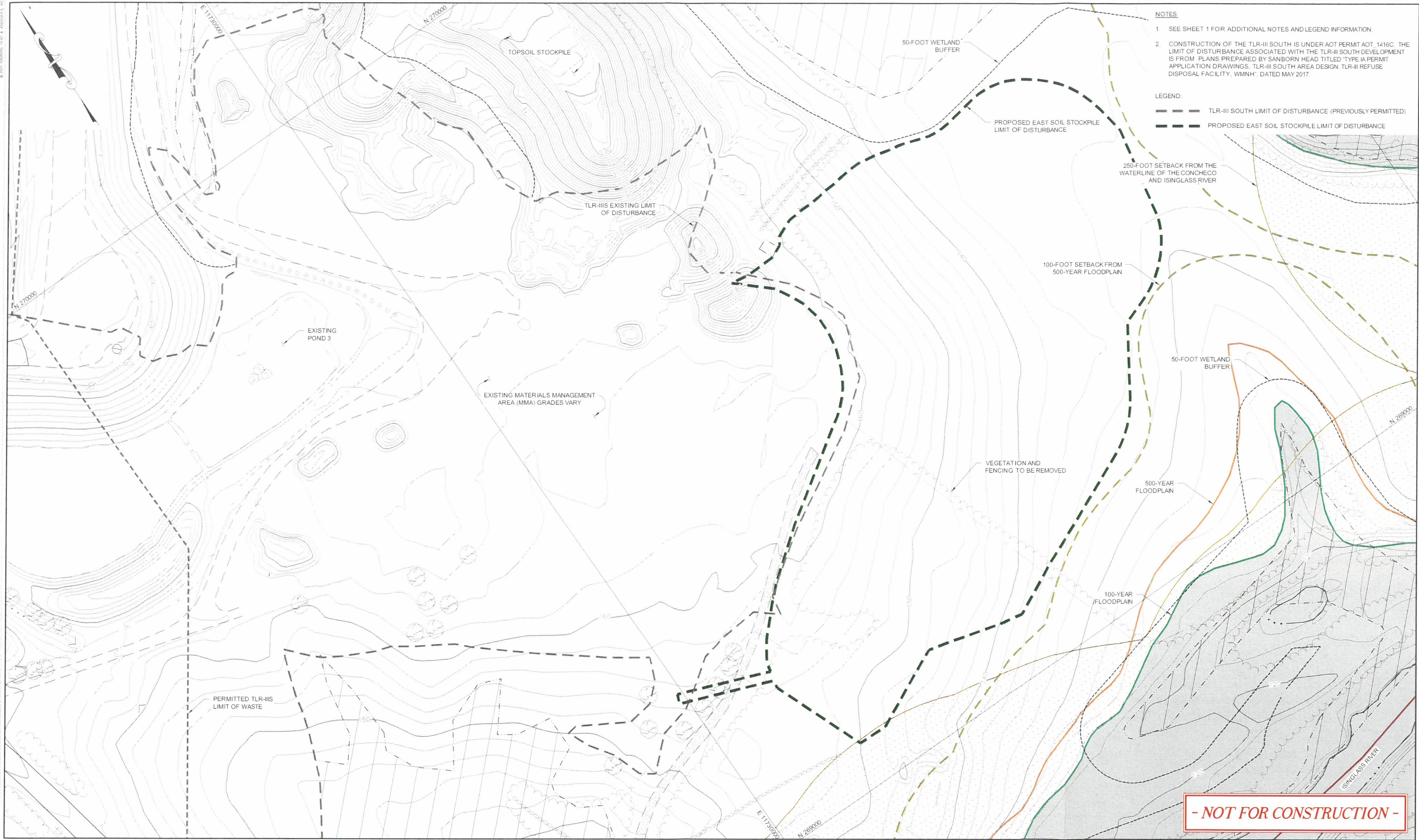
3534.07

NOTES, ABBREVIATIONS, AND LEGEND

SHEET NUMBER

1 OF 7

© 2021 SANBORN HEAD & ASSOCIATES, INC.



NOTES

1. SEE SHEET 1 FOR ADDITIONAL NOTES AND LEGEND INFORMATION
2. CONSTRUCTION OF THE TLR-III SOUTH IS UNDER AOT PERMIT AOT 1416C. THE LIMIT OF DISTURBANCE ASSOCIATED WITH THE TLR-III SOUTH DEVELOPMENT IS FROM PLANS PREPARED BY SANBORN HEAD TITLED "TYPE I A PERMIT APPLICATION DRAWINGS, TLR-III SOUTH AREA DESIGN, TLR-III REFUSE DISPOSAL FACILITY, WMNH", DATED MAY 2017.

LEGEND:

- TLR-III SOUTH LIMIT OF DISTURBANCE (PREVIOUSLY PERMITTED)
- PROPOSED EAST SOIL STOCKPILE LIMIT OF DISTURBANCE

SANBORN HEAD



NO.	DESCRIPTION	BY

DRAWN BY: S. PERRY
DESIGNED BY: A. MATTHEWS / E. GALVIN
REVIEWED BY: K. ANDERSON
PROJECT MGR: A. MATTHEWS
PIC: E. STEINHAUSER
DATE: MARCH 2021

CONSTRUCTION DRAWINGS
EAST SOIL STOCKPILE
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EXISTING CONDITIONS PLAN

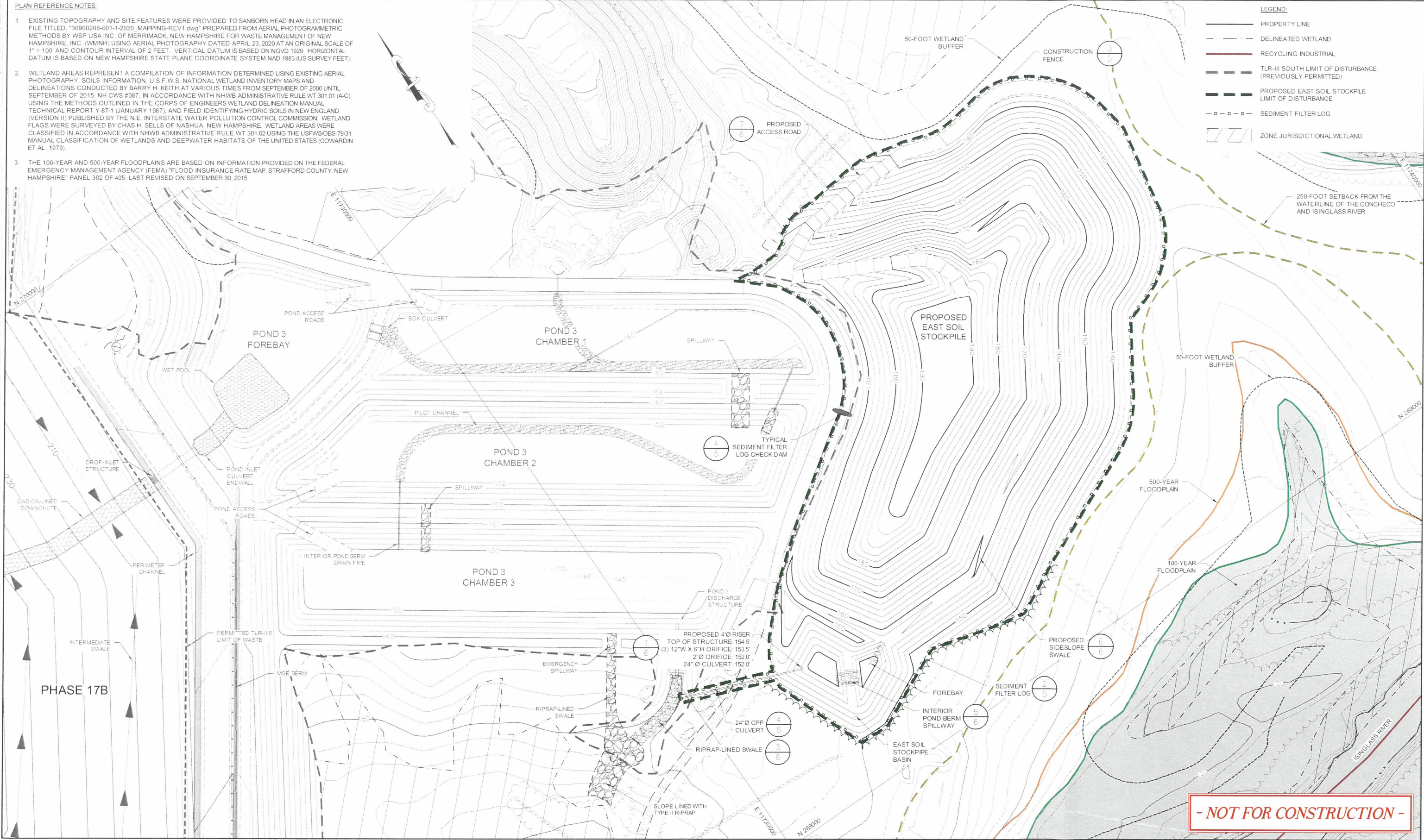
PROJECT NUMBER:
3534.07
SHEET NUMBER:
3 OF 7

PLAN REFERENCE NOTES:

- EXISTING TOPOGRAPHY AND SITE FEATURES WERE PROVIDED TO SANBORN HEAD IN AN ELECTRONIC FILE TITLED "30900206-001-1-2020_MAPPING-REV1.dwg" PREPARED FROM AERIAL PHOTOGRAMMETRIC METHODS BY WSP USA INC. OF MERRIMACK, NEW HAMPSHIRE FOR WASTE MANAGEMENT OF NEW HAMPSHIRE, INC. (WMNH) USING AERIAL PHOTOGRAPHY DATED APRIL 23, 2020 AT AN ORIGINAL SCALE OF 1" = 100' AND CONTOUR INTERVAL OF 2 FEET. VERTICAL DATUM IS BASED ON NGVD 1929. HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 1983 (US SURVEY FEET).
- WETLAND AREAS REPRESENT A COMPILATION OF INFORMATION DETERMINED USING EXISTING AERIAL PHOTOGRAPHY, SOILS INFORMATION, U.S.F.W.S. NATIONAL WETLAND INVENTORY MAPS AND DELINEATIONS CONDUCTED BY BARRY H. KEITH AT VARIOUS TIMES FROM SEPTEMBER OF 2000 UNTIL SEPTEMBER OF 2015, NH CWS #087, IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.01 (A-C) USING THE METHODS OUTLINED IN THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL TECHNICAL REPORT Y-87-1 (JANUARY 1987), AND FIELD IDENTIFYING HYDRIC SOILS IN NEW ENGLAND (VERSION II) PUBLISHED BY THE N.E. INTERSTATE WATER POLLUTION CONTROL COMMISSION. WETLAND FLAGS WERE SURVEYED BY CHAS H. SELLS OF NASHUA, NEW HAMPSHIRE. WETLAND AREAS WERE CLASSIFIED IN ACCORDANCE WITH NHWB ADMINISTRATIVE RULE WT 301.02 USING THE USFWS/OBS-79/31 MANUAL CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES (COWARDIN ET AL., 1979).
- THE 100-YEAR AND 500-YEAR FLOODPLAINS ARE BASED ON INFORMATION PROVIDED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) "FLOOD INSURANCE RATE MAP, STRAFFORD COUNTY, NEW HAMPSHIRE" PANEL 302 OF 405, LAST REVISED ON SEPTEMBER 30, 2015.

LEGEND:

- PROPERTY LINE
- DELINEATED WETLAND
- RECYCLING INDUSTRIAL
- TLR-III SOUTH LIMIT OF DISTURBANCE (PREVIOUSLY PERMITTED)
- PROPOSED EAST SOIL STOCKPILE LIMIT OF DISTURBANCE
- SEDIMENT FILTER LOG
- ZONE JURISDICTIONAL WETLAND



SANBORN HEAD



NO.	DESCRIPTION	BY

DRAWN BY: S. PERRY
DESIGNED BY: A. MATTHEWS / E. GALVIN
REVIEWED BY: K. ANDERSON
PROJECT MGR: A. MATTHEWS
PIC: E. STEINHAUSER
DATE: MARCH 2021

CONSTRUCTION DRAWINGS
EAST SOIL STOCKPILE
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

SITE DEVELOPMENT AND
STORMWATER PLAN

PROJECT NUMBER:
3534.07
SHEET NUMBER:
4 OF 7

GENERAL NOTES:

- PERFORM EARTHWORK ACTIVITIES SO THAT THE SMALLEST PRACTICAL AREA IS EXPOSED AT ANY ONE TIME PRIOR TO FINAL GRADING AND STABILIZING WITH SEED AND MULCH. UNSTABILIZED AREA SHALL BE LIMITED TO NOT MORE THAN 5 CONTIGUOUS ACRES AT ANY ONE TIME. THE TERM "STABLE" IS DEFINED AS MEETING ONE OF THE FOLLOWING CRITERIA:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE RIPRAP HAS BEEN INSTALLED; OR
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- APPLY SEED, LIME, FERTILIZER, AND HAY MULCH TO DISTURBED AREAS, NEWLY-PLACED FILL SLOPES, AND GRASS-LINED SWALES WITHIN 14 CALENDAR DAYS AFTER THE PERMANENT OR TEMPORARY (i.e., CONSTRUCTION ACTIVITIES WILL BE INACTIVE FOR 14 OR MORE CALENDAR DAYS) CESSATION OF EARTHWORK ACTIVITIES. ALSO APPLY SEED AND HAY MULCH TO THOSE AREAS THAT WILL NOT BE RE-DISTURBED FOR A PERIOD OF 30 DAYS OR MORE. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TO 2 TONS PER ACRE.
- EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS AND AT THE DISCRETION OF THE ENGINEER AND OWNER. SEDIMENT FILTER LOGS SHALL BE INSTALLED ALONG THE CONTOUR AS SHOWN ON THE DRAWING OR AS DIRECTED BY THE OWNER. EROSION CONTROL FEATURES ARE TO BE MAINTAINED AND CLEANED UNTIL VEGETATIVE COVER IS ESTABLISHED.
- ALL EROSION CONTROLS SUCH AS SEDIMENT FILTER LOGS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM EVENT THAT PRODUCES 0.25 INCHES OF RAINFALL. ALL DAMAGED SEDIMENT FILTER LOGS SHALL BE REPAIRED PROMPTLY.
- TRACK UP AND DOWN REGRADED SLOPES (GROUSER TRACKS PERPENDICULAR TO THE SLOPE) WITH A BULLDOZER TO LIMIT EROSION.
- REMOVE SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITY AS NEEDED FROM DETENTION PONDS TO MAINTAIN STORAGE CAPACITY AND AT THE DIRECTION OF THE ENGINEER OF OWNER. DISPOSE SEDIMENT IN A SECURE LOCATION SO AS TO PREVENT SILTATION OF NATURAL WATERWAYS.
- REMOVE SEDIMENT BUILD UP FROM BEHIND EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES UNTIL FULL ESTABLISHMENT OF PERMANENT GROUND COVER.
- DITCHES, SWALES, AND PONDS SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE (BEFORE ROUGH GRADING OF THE SITE) AND STABILIZED BEFORE RUNOFF IS DIRECTED TO THEM.
- PERFORM SOIL BORROW EXCAVATION ACTIVITIES IN SUCH A MANNER THAT ALL RUNOFF FROM THE EXCAVATION AREAS IS CONTAINED WITHIN THE EXCAVATION.
- THE PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER Agr 3800 RELATIVE TO INVASIVE SPECIES.
- ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- MUST INSTALL AND MAINTAIN ORANGE CONSTRUCTION FENCING (OR OTHER APPROPRIATE DEVICE) ALONG OUTER EDGE OF THE CONSTRUCTION ZONE, WHERE THERE ARE TREES, SHRUBS, OR OTHER RESOURCES WORTHY OF PROTECTION AND AROUND DESIGNATED TREES.
- ALL STRIPPED TOPSOIL FROM SITE SHALL BE RETAINED, STABILIZED IN ACCORDANCE WITH NHDES STANDARDS, AND STOCKPILED ON SITE FOR REUSE ON SITE LATER, UNLESS OTHERWISE APPROVED.

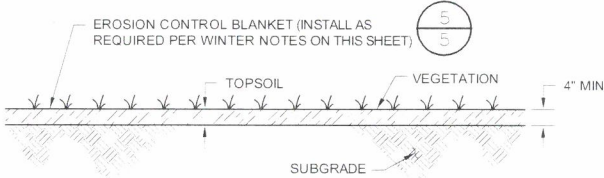
SPECIFICATIONS:

TOPSOIL AND SEEDING MATERIALS

- TOPSOIL SHALL BE FERTILE SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, FREE FROM ROOTS, STICKS, PEAT, WEEDS, AND SOD. IT SHALL NOT CONTAIN MATERIAL HARMFUL TO PLANT GROWTH.
- GRASS SEED SHALL BE FROM THE SAME OR PREVIOUS YEAR'S CROP. EACH VARIETY OF SEED SHALL HAVE A PERCENTAGE OF GERMINATION NOT LESS THAN NINETY (90), A PERCENTAGE OF PURITY NOT LESS THAN EIGHTY-FIVE (85), AND SHALL HAVE NOT MORE THAN ONE PERCENT (1%) WEED CONTENT.
- MULCH SHALL CONSIST OF DRY HAY OR STRAW AND BE FREE OF NOXIOUS WEEDS OR MOLD.
- APPLICATION OF FERTILIZER, LIME, SEED, AND MULCH SHALL ONLY BE PERFORMED DURING THOSE PERIODS WITHIN THE SEASONS WHICH ARE NORMAL FOR SUCH WORK AS DETERMINED BY THE WEATHER AND LOCALLY ACCEPTED PRACTICE, AND AS APPROVED BY THE ENGINEER.
- ANY PART OF THE SEEDED AREA THAT FAILS TO YIELD AN ACCEPTABLE STAND OF GRASS AS DETERMINED BY THE ENGINEER OR OWNER SHALL BE RETREATED WITH ADDITIONAL SEED, FERTILIZER, AND MULCH.
- SEED MIX SHALL BE NEW ENGLAND CONSERVATION/WILDLIFE MIX BY NEW ENGLAND WETLAND PLANT, INC. OR EQUIVALENT APPROVED BY THE ENGINEER AND SHALL BE APPLIED AT A RATE OF 25 POUNDS PER ACRE.

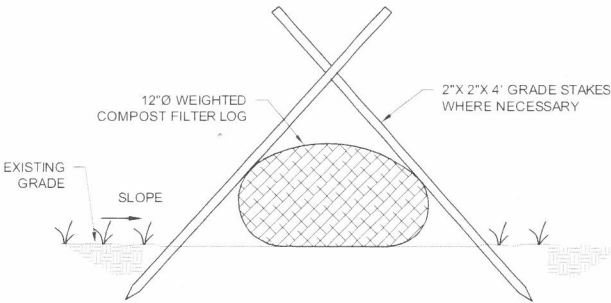
WINTER NOTES:

- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR THAT ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED BY SEEDED AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDED AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR THAT ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND
- AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A LAYER OF AT LEAST 3 INCHES THICK CRUSHED GRAVEL PER NHDOT ITEM 304.3.



TOPSOIL AND SEED

NOT TO SCALE

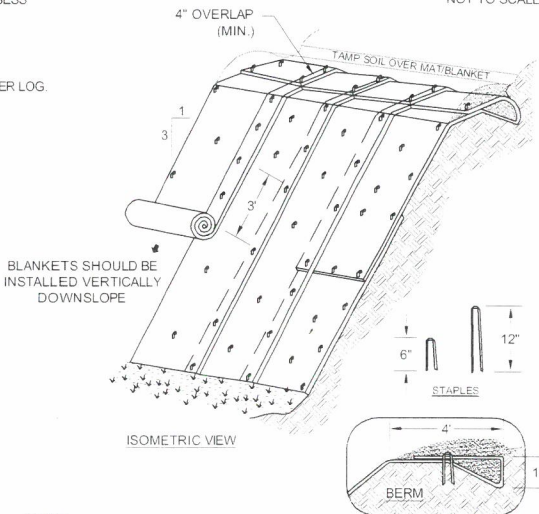


NOTES:

- SEDIMENT FILTER LOG SHALL BE SILT-SOXX NATURAL PLUS BY FILTREXX, OR AN EQUIVALENT PRODUCT MADE OF WOVEN ORGANIC MATERIALS APPROVED BY THE ENGINEER.
- SEDIMENT FILTER LOGS SHALL BE A COMPOST-FILLED BIO- OR PHOTO-DEGRADABLE TUBULAR MESH PRODUCT CAPABLE OF TRAPPING SEDIMENT BEFORE OR WITHIN THE DEVICE WHILE ALLOWING STORMWATER RUNOFF TO PASS THROUGH.
- THE MESH SHALL BE OF NATURAL BIODEGRADABLE MATERIALS TO AVOID PROBLEMS WITH THE SOCK TRAPPING ENDANGERED SNAKES OR LIZARDS, SUCH AS BIODEGRADABLE JUTE, SISAL, BURLAP, OR COIR FIBER FABRIC.
- THE MESH FABRIC SHALL BE CLEAN, EVENLY WOVEN, AND FREE OF ENCRUSTED CONCRETE OR OTHER CONTAMINATING MATERIALS AND FREE FROM CUTS, TEARS, BROKEN OR MISSING YARNS AND THIN, OPEN OR WEAK PLACES.
- EACH SEDIMENT FILTER LOG SHALL HAVE A DIAMETER OF NO LESS THAN 8 INCHES.
- THE MESH OPENING SHALL BE NO SMALLER THAN 1/8 INCH.
- THE COMPOST SHALL BE DERIVED FROM GREEN MATERIAL CONSISTING OF CHIPPED, SHREDDED OR GROUND VEGETATION, OR CLEAN RECYCLED WOOD PRODUCTS, AND BE REASONABLY FREE OF VISIBLE CONTAMINANTS. IT SHALL NOT BE DERIVED FROM MIXED MUNICIPAL SOLID WASTE AND SHALL NOT CONTAIN PAINT, PETROLEUM PRODUCTS, PESTICIDES, OR ANY OTHER CHEMICAL RESIDUES HARMFUL TO ANIMAL LIFE OR PLANT GROWTH. THE COMPOST SHALL NOT POSSESS OBJECTIONABLE ODORS.
- THE SEDIMENT FILTER LOG MUST HAVE A MINIMUM DURABILITY OF ONE YEAR AFTER INSTALLATION.
- STUMP GRINDINGS EROSION CONTROL BERMS MAY BE USED IN PLACE OF SEDIMENT FILTER LOG.

SEDIMENT FILTER LOG

NOT TO SCALE



NOTE:

- EROSION CONTROL BLANKETS SHALL BE ROLLMAX BIONET SC150BM BY NORTH AMERICAN GREEN, OR EQUIVALENT PRODUCT MADE OF WOVEN ORGANIC MATERIALS APPROVED BY THE ENGINEER.

SLOPE INSTALLATION

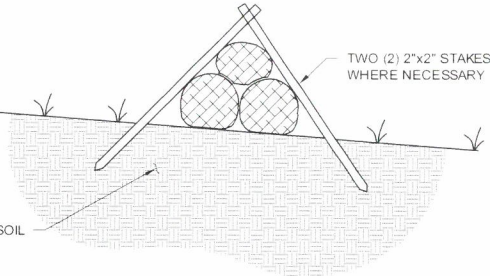
SLOPE INSTALLATION NOTES:

- DIMENSIONS GIVEN IN THE DRAWINGS ARE EXAMPLES. MATERIAL SHOULD BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- APPLY PERMANENT SEEDED BEFORE PLACING BLANKETS.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SOURCE: "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" REVISION 1.0, DECEMBER 2008, PAGE 74

EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



ANCHORING
(ELEVATION VIEW)

SEDIMENT FILTER LOG CHECK DAM

NOT TO SCALE

SANBORN HEAD

SCALE: AS NOTED



NO.	DESCRIPTION	BY

DRAWN BY: S. PERRY
DESIGNED BY: A. MATTHEWS
REVIEWED BY: K. ANDERSON
PROJECT MGR: A. MATTHEWS
PIC: E. STEINHAUSER
DATE: MARCH 2021

CONSTRUCTION DRAWINGS
EAST SOIL STOCKPILE
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

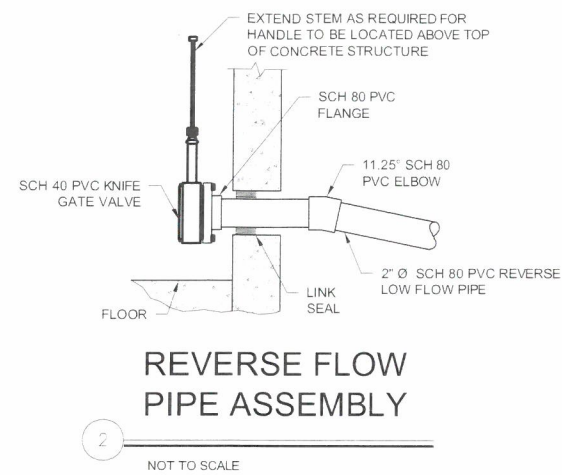
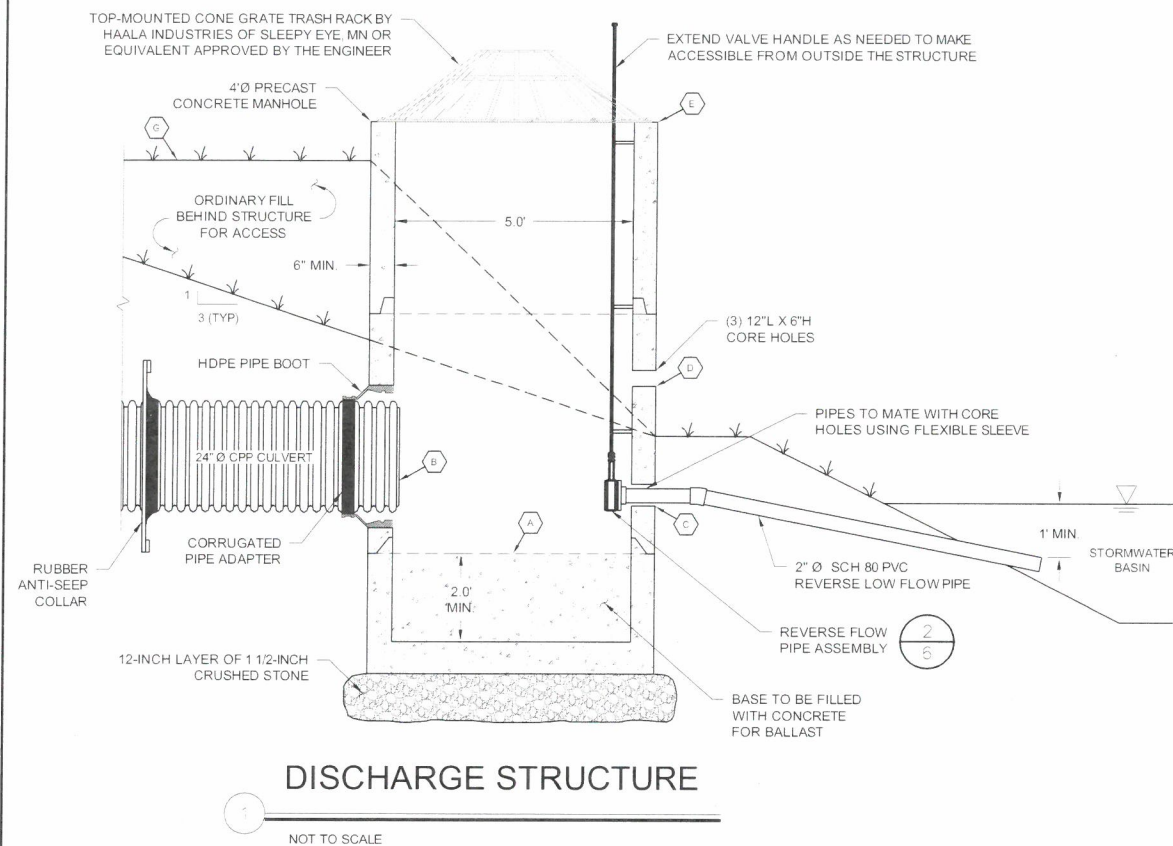
PROJECT NUMBER:

3534.07

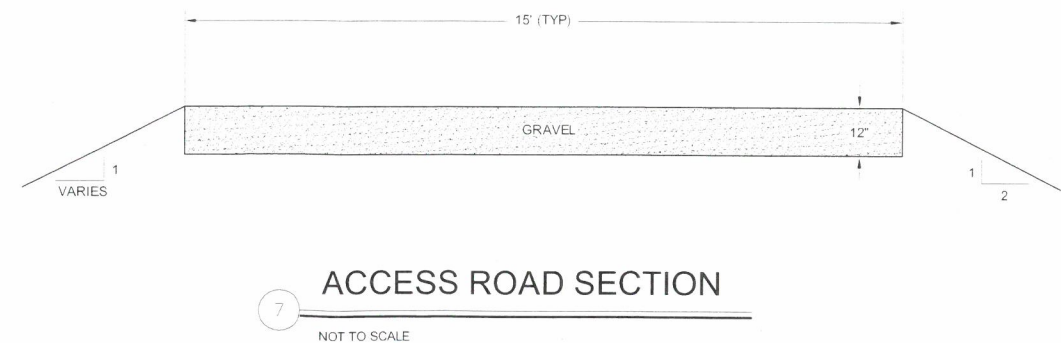
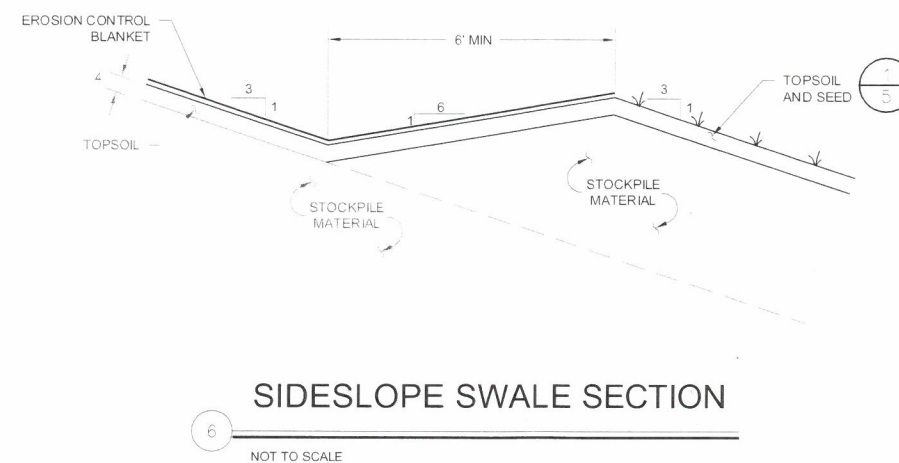
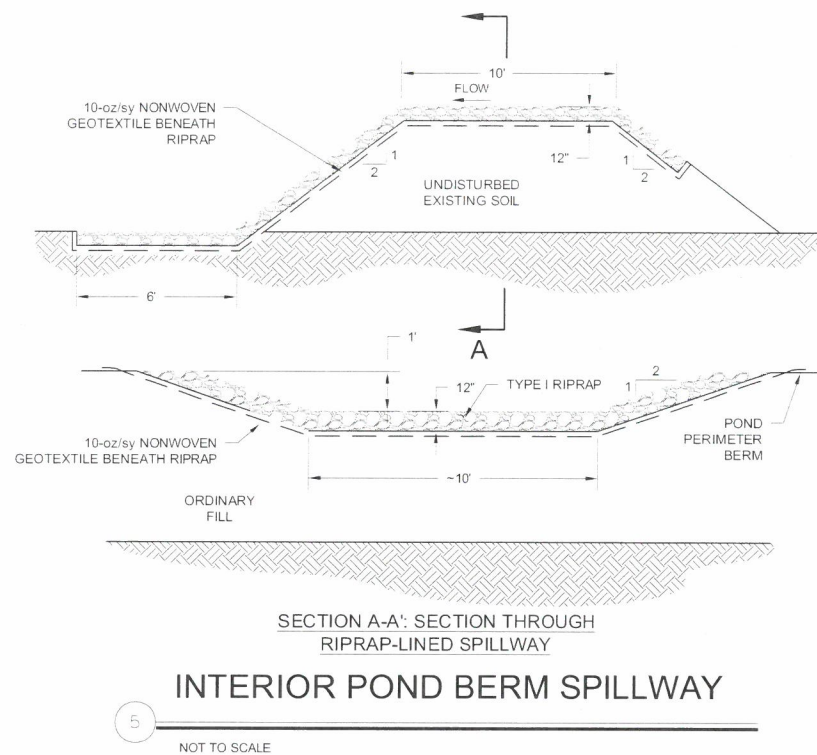
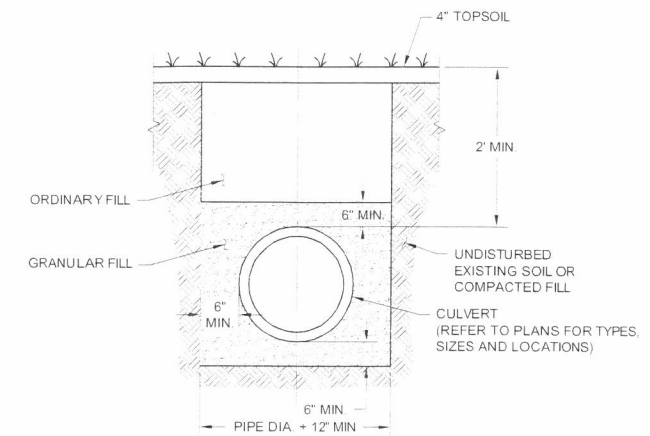
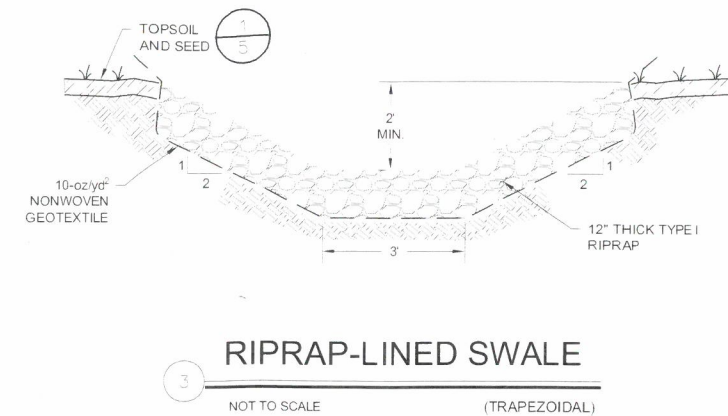
SHEET NUMBER:

5 OF 7

- NOT FOR CONSTRUCTION -



DISCHARGE STRUCTURE SCHEDULE			
POINT	DESCRIPTION	NO OF HOLES	INVERT ELEV. (FT)
A	BOTTOM OF SUMP	N/A	151.0
B	DISCHARGE CULVERT	1	152.0
C	LOW FLOW INLET	1	152.0
D	ROW OF COREHOLES	3	153.5
E	RIM OF CONCRETE STRUCTURE	N/A	154.5
F	SPILLWAY INVERT	N/A	155.0
G	TOP OF POND BERM	N/A	156.0



- NOT FOR CONSTRUCTION -



PLEASE REPORT OBSERVATIONS OF RARE TURTLES

The NH Fish & Game Department is requesting
observations of the following turtle species



Blanding's turtle
(State Endangered)

Large, dark/black domed shell
with lighter speckles.

Distinct yellow throat/chin.

Aquatic but often moves on land.



Spotted turtle
(State Threatened)

Small, mostly aquatic with
black or dark brown with
yellow spots.

Fairly flat shell compared
to Blanding's turtle.

Spots vary in color and
number.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to
NHFG Wildlife Biologist Melissa Doperalski 603-479-1129 (cell) anytime.

Please report promptly, noting specific location and date – Photographs strongly encouraged



Northern Black Racer

(New Hampshire state threatened species)



- Solid black with a white throat
and chin
- Slender with glossy scales, 3-6 ft.
long
- Hatchlings are very small and
patterned



Immediately report sightings to NH Fish and Game

Melissa Doperalski (603-419-1129) or

Brendan Clifford (603-944-0885)

Please report promptly, noting specific location and date

Photographs strongly encouraged



- NOT FOR CONSTRUCTION -

SANBORN HEAD

SCALE: AS NOTED



NO.	DESCRIPTION	BY

DRAWN BY: S. PERRY
DESIGNED BY: A. MATTHEWS
REVIEWED BY: K. ANDERSON
PROJECT MGR: A. MATTHEWS
PIC: E. STEINHAUSER
DATE: MARCH 2021

CONSTRUCTION DRAWINGS
EAST SOIL STOCKPILE
WASTE MANAGEMENT OF NEW HAMPSHIRE, INC.
ROCHESTER, NEW HAMPSHIRE

POTENTIAL THREATENED OR
ENDANGERED SPECIES FLYERS

PROJECT NUMBER:

3534.07

SHEET NUMBER:

7 OF 7