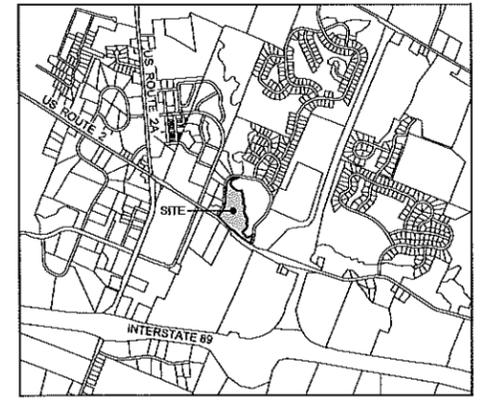
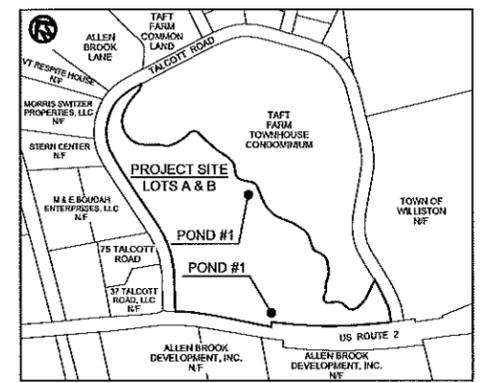


THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION



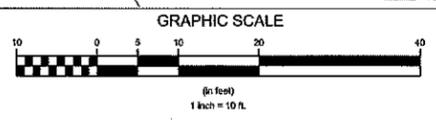
VICINITY MAP
NOT TO SCALE



PROJECT AND ABUTTING PARCELS
NOT TO SCALE

FINAL PLANS

EXISTING POND OUTLET STRUCTURE
TOP STRUCTURE = 392.95
25" Ø OPENING IN TOP STRUCTURE = 392.95
INSTALL NEW CAST IRON FRAME & BEEHIVE GRATE - RIM ELEV = 393.3
(NEENAH R-2560-EA & R1733-1)
EXIST. 1 1/2" ORIFICE = 389.87 (TO BE PLUGGED)
EXIST. 1 1/2" ORIFICE = 389.78 (TO REMAIN, INSTALL ORIFICE HOOD)
EXIST. 15" PE CUT = 387.0 (TO REMAIN)



LEGEND

- PROPERTY BOUNDARY
- - - CONSERVATION BOUNDARY
- - - WB WETLAND BUFFER
- - - 384 EXISTING GROUND CONTOUR
- - - 388 FINISH GRADE CONTOUR
- EXISTING STORMWATER PIPE & STRUCTURE
- WETLAND BOUNDARY
- EXISTING TREES
- TEMPORARY SILT FENCE
- LIMIT OF DISTURBANCE

SHEET INDEX

SHEET	TITLE
1	POND #1 SITE PLAN
2	POND #2 SITE PLAN
3	DETAILS & SPECIFICATIONS, EPSC & STORMWATER

EROSION CONTROL NOTES

- IT IS ANTICIPATED THAT LESS THAN 1 ACRE OF EARTH DISTURBANCE WILL OCCUR DURING PROJECT CONSTRUCTION. SHOULD THE CONTRACTOR'S OPERATIONS RESULT IN MORE THAN 1 ACRE OF EARTH DISTURBANCE, THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH THE AGENCY OF NATURAL RESOURCES (ANR) VIA FILING A JOINT NOTICE OF INTENT WITH THE LANDOWNER FOR COVERAGE UNDER THE APPROPRIATE CONSTRUCTION GENERAL PERMIT (CGP 3-9020 OR INDIVIDUAL PERMIT) PRIOR TO SUCH DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NEEDED TO SATISFY ANY SUCH PERMIT REQUIREMENTS. REGARDLESS OF PERMIT APPLICABILITY, THE CONTRACTOR IS ALWAYS RESPONSIBLE FOR ENSURING THAT PROPER EROSION PREVENTION AND SEDIMENT CONTROL TECHNIQUES ARE UTILIZED DURING CONSTRUCTION.
- ANR'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" AND THE "VERMONT EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE" SHALL BE USED AS GUIDANCE DURING CONSTRUCTION.
- THE AREA OF DISTURBED SOILS AND THE DURATION OF EXPOSURE OF THE DISTURBED SOILS SHALL BE MINIMIZED. TO ACCOMPLISH THIS, WORK EFFORT SHOULD BE FOCUSED ON THE COMPLETION AND STABILIZATION OF ONE TASK BEFORE PROCEEDING TO THE NEXT.
- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PRIOR TO AND FOLLOWING PRECIPITATION EVENTS, AND NOT LESS THAN ONCE EVERY SEVEN (7) DAYS. MAINTENANCE AND REPAIRS SHALL BE PROMPTLY COMPLETED.
- TEMPORARY SOIL STOCKPILES SHALL BE MULCHED WITH HAY AND TEMPORARY SILT FENCE INSTALLED AROUND THE DOWNSLOPE PERIMETER OF THE PILES.
- INLET PROTECTION SHALL BE INSTALLED AT ALL STORMWATER INLETS IN THE PROJECT WORK AREA.
- THE CONTRACTOR SHALL SWEEP THE PAVEMENT AS NEEDED TO REMOVE ANY TRACKED SEDIMENT AND TO CONTROL DUST.
- DISTURBED AREAS THAT ARE NOT BEING ACTIVELY WORKED SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH OR MATTING.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AFTER FINAL STABILIZATION AND PRIOR TO COMPLETION OF THE PROJECT.
- PAYMENT FOR THE DISPOSAL OF UNSUITABLE OR EXCESS MATERIAL AT AN OFFSITE LOCATION INCLUDING TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS ITEMS REQUIRED FOR COMPLETION OF THE WORK SHOWN ON THE PLANS.
- PAYMENT FOR TEMPORARY STABILIZED BASE IN STAGING OR STORAGE AREAS OR TEMPORARY ACCESS ROADS SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS ITEMS REQUIRED FOR COMPLETION OF THE WORK SHOWN ON THE PLANS.

- NOTES:**
- THE PURPOSE OF THIS PLAN IS TO PRESENT THE PROPOSED IMPROVEMENTS TO THE EXISTING STORM POND. SEE OTHER PLANS FOR ADDITIONAL DESIGN INFORMATION AND CONSTRUCTION DETAILS.
 - BOUNDARY INFORMATION SHOWN IS BASED UPON TAX MAP PARCEL LINES.
 - EXISTING CONDITIONS SHOWN HEREON ARE BASED UPON A TOPOGRAPHIC SURVEY PERFORMED BY L&D IN SEPTEMBER 2014.
 - THE WETLAND DELINEATION WAS PERFORMED BY L&D IN NOVEMBER 2014.
 - THE SPECIAL FLOOD HAZARD ZONE IS BASED UPON THE FLOOD INSURANCE RATE MAP FOR CHITTENDEN COUNTY, PANEL 278 OF 500, MAP NUMBER 60007C02760, WITH AN EFFECTIVE DATE OF JULY 18, 2011.

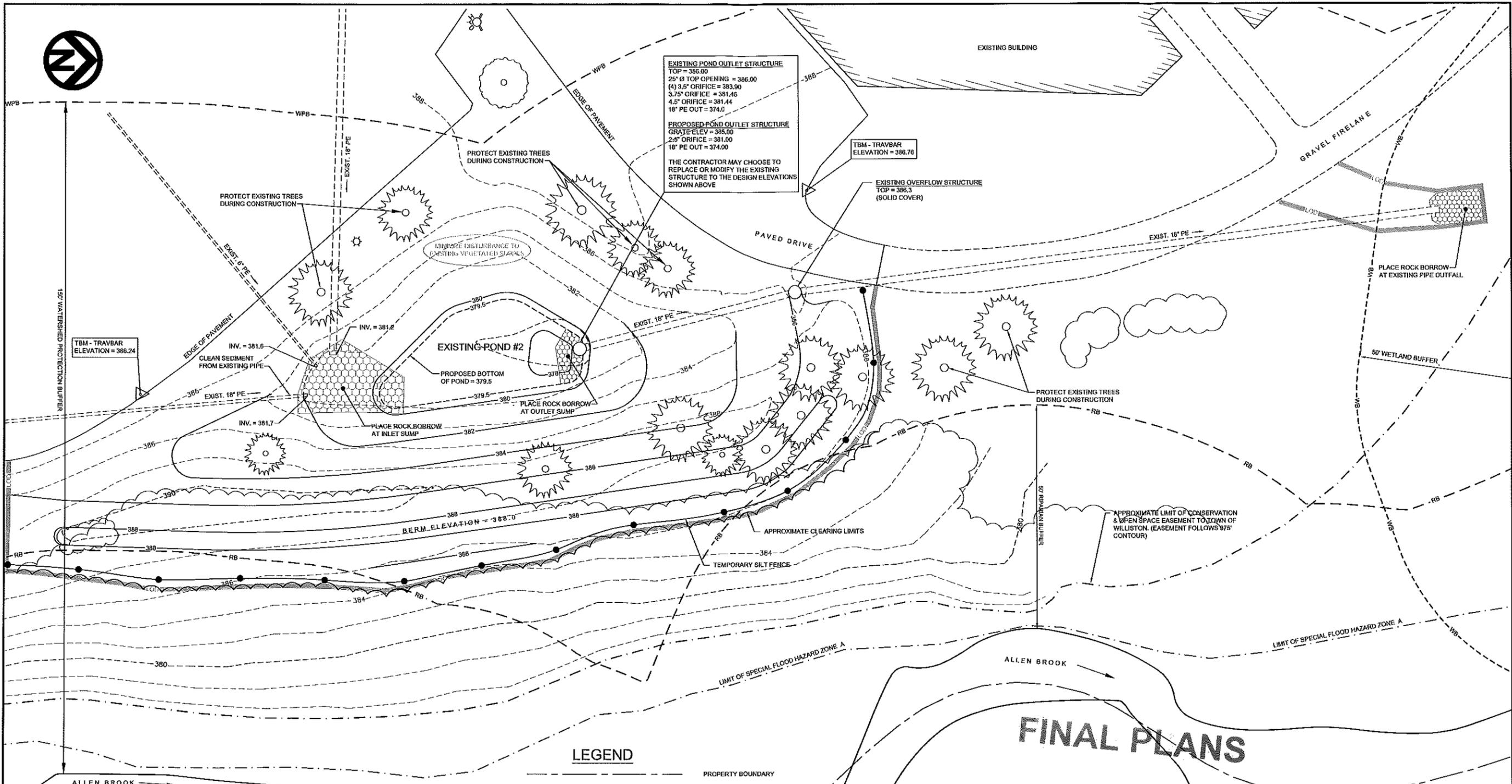
Date	Revision	By
These plans shall only be used for the purpose shown below:		
<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review	
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction	
<input checked="" type="checkbox"/> Final	<input type="checkbox"/> Record Drawing	
Taft Farm Lots A & B Stormwater Improvement Project U.S. Route 2 & Talcott Road Williston, VT		Project No. 14129 Survey JMR Design AR Drawn BH Checked DG Date 08-30-16
POND #1 SITE PLAN		Scale 1" = 10' Sheet number 1 of 3
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com		

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-17-03, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON FEBRUARY 28, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR TAFT FARM LOTS A & B ON THE 17TH DAY OF APRIL, 2017.

Kenn Bellin
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

PARCEL # 08-087-002.000 DP 17-03

DP 17-03



EXISTING POND OUTLET STRUCTURE
 TOP = 386.00
 25" Ø TOP OPENING = 386.00
 (4) 3.5" ORIFICE = 383.90
 3.75" ORIFICE = 381.45
 4.5" ORIFICE = 381.44
 18" PE OUT = 374.0

PROPOSED POND OUTLET STRUCTURE
 GRATE ELEV = 385.00
 24" ORIFICE = 381.00
 18" PE OUT = 374.00

THE CONTRACTOR MAY CHOOSE TO REPLACE OR MODIFY THE EXISTING STRUCTURE TO THE DESIGN ELEVATIONS SHOWN ABOVE

TBM - TRAVBAR
 ELEVATION = 368.24

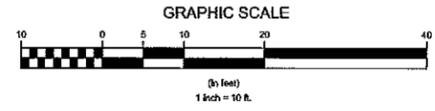
TBM - TRAVBAR
 ELEVATION = 386.76

EXISTING OVERFLOW STRUCTURE
 TOP = 386.3
 (SOLID COVER)

THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION

LEGEND

- PROPERTY BOUNDARY
- CONSERVATION BOUNDARY
- WPB - WATERSHED PROTECTION BUFFER
- WB - WETLAND BUFFER
- RB - RIPARIAN BUFFER
- 384 - EXISTING GROUND CONTOUR
- 385 - FINISH GRADE CONTOUR
- - - - EXISTING TREELINE
- - - - PROPOSED TREELINE
- - - - SPECIAL FLOOD HAZARD ZONE
- - - - EXISTING STORMWATER PIPE & STRUCTURE
- - - - WETLAND BOUNDARY
- - - - EXISTING TREES
- - - - TEMPORARY SILT FENCE
- - - - LIMIT OF DISTURBANCE



FINAL PLANS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-17-03, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON FEBRUARY 28, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR TAFT FARM LOTS A & B, ON THE 17TH DAY OF APRIL, 2017.

K. Bellin
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

09-30-16	REDUCE STONE FOOTPRINT AT EXISTING PIPE OUTLET	ABR
Date	Revision	By

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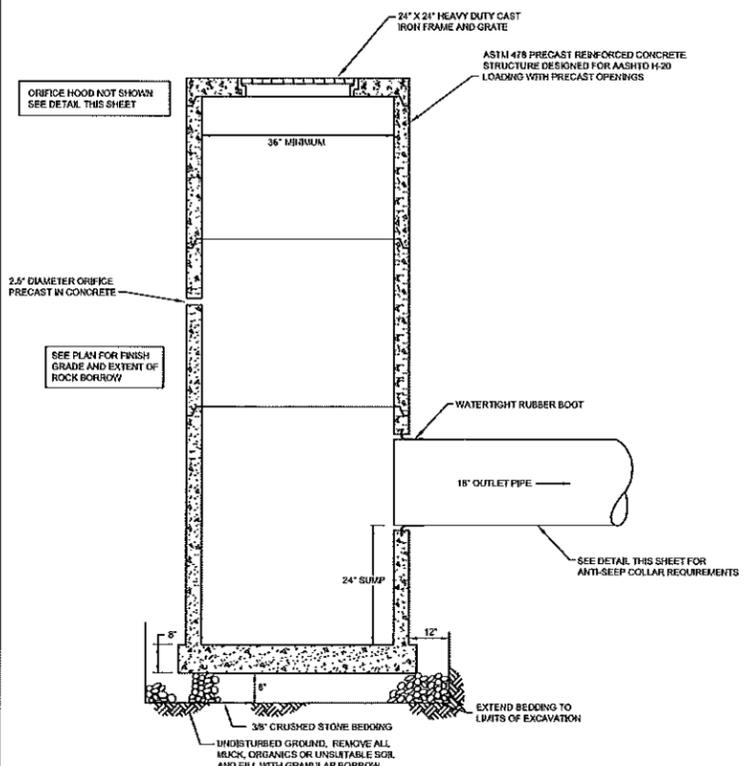
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<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction
<input checked="" type="checkbox"/> Final	<input type="checkbox"/> Record Drawing

Project No. 14129	
Survey JMR	
Design AR	
Drawn BH	
Checked DG	
Date 06-30-16	
Scale 1" = 10'	
Sheet number 2 of 3	

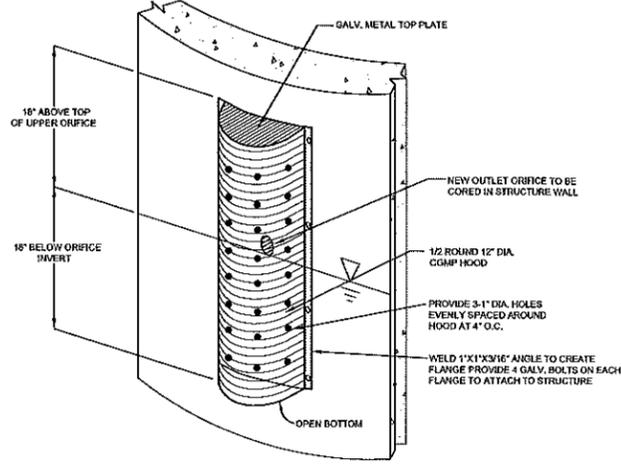
Lamoureux & Dickinson
 Consulting Engineers, Inc.
 14 Morse Drive, Essex, VT 05452
 802-878-4450 www.LDEngineering.com

PARCEL # 08-087-002.000 DP 17-03

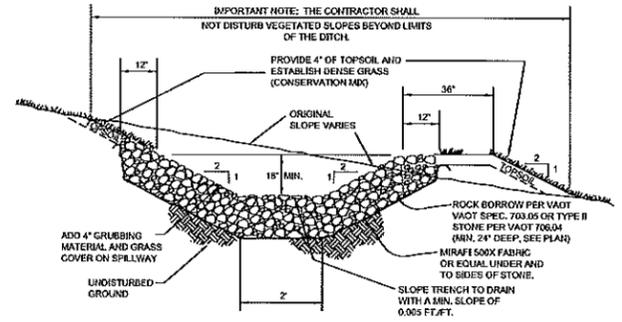
THE CONTRACTOR MAY CHOOSE TO MODIFY THE EXISTING OUTLET STRUCTURE TO MEET THE ORIFICE AND GRATE ELEVATION REQUIREMENTS SHOWN ON THE PLAN, OR A NEW PRECAST CONCRETE STRUCTURE MAY BE INSTALLED.



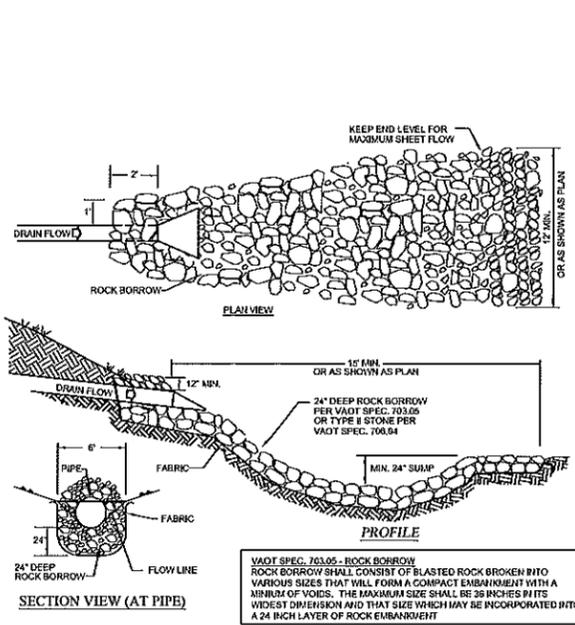
POND #2 OUTLET STRUCTURE
NTS



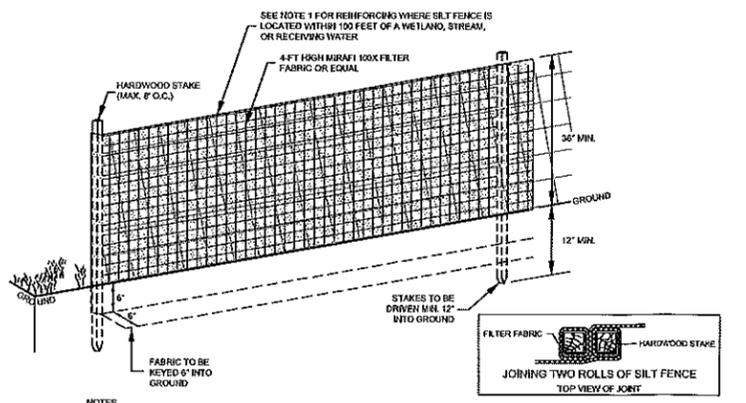
BASIN OUTLET STRUCTURE ORIFICE HOOD
NTS



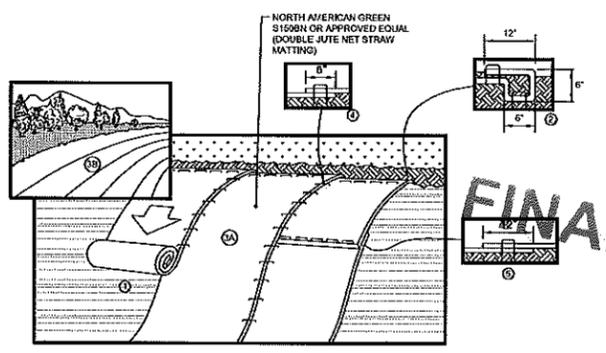
TYPICAL STONE DITCH DETAIL
NTS



STORM OUTFALL DETAIL
NTS



TEMPORARY SILT FENCE
NTS



EROSION MATTING FOR SLOPES
NTS

GENERAL CONSTRUCTION SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSIONS OF THE WILLISTON PUBLIC WORKS STANDARD SPECIFICATIONS, THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY DIG SAFE AND THE TOWN OF WILLISTON PUBLIC WORKS DEPARTMENT PRIOR TO ANY EXCAVATION.
3. UTILITIES INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DRAWINGS AND FIELD EVIDENCE, AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FACILITATE A PRECONSTRUCTION MEETING WITH THE OWNER, ENGINEER, AND THE WILLISTON PUBLIC WORKS DEPARTMENT. THE PROJECT SCHEDULE, INCLUDING CRITICAL MILESTONES SHALL BE PRESENTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE OWNER AND ENGINEER PRIOR TO BEGINNING ANY WORK, MODIFYING THE OUTLET STRUCTURE, INSTALLATION OF STONE FILL, AND PLACEMENT OF TOPSOIL. THE CONTRACTOR SHALL ALSO FACILITATE A FINAL INSPECTION WITH THE OWNER, ENGINEER, AND WILLISTON PUBLIC WORKS DEPARTMENT.
5. LAMOUREUX & DICKINSON (L&D) WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM FAILURE TO FOLLOW THESE PLANS AND SPECIFICATIONS, THE DESIGN INTENT THAT THEY CONVEY, AND ANY CHANGES MADE TO THE PLANS AND/OR SPECIFICATIONS WITHOUT THE PRIOR KNOWLEDGE AND ACCEPTANCE OF L&D.

TURF ESTABLISHMENT SPECIFICATIONS

- ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS SURFACE (PAVEMENT OR WALKS), STONE FILL BORROW, OR ARE NOT LANDSCAPED WITH BARK MULCH, SHALL BE STABILIZED WITH NEW GRASS COVER.
- ALL SEEDING AND MULCHING FOR ESTABLISHING NEW GRASS COVER SHALL BE COMPLETED AFTER APRIL 15 (AS SITE CONDITIONS ALLOW) AND PRIOR TO SEPTEMBER 15. PLACEMENT OF TOPSOIL, AND THE APPLICATION OF SEED, FERTILIZER, LIME (WHERE APPLICABLE), AND MULCH SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1. A MINIMUM OF 4" OF APPROVED TOPSOIL SHALL BE PLACED IN ALL AREAS. PLACEMENT OF TOPSOIL SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN, EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DETRIMENTAL TO THE WORK. FOLLOWING PLACEMENT OF TOPSOIL, THE SURFACE SHALL BE RAKED. ALL STONES, LUMPS, ROOTS, OR OTHER OBJECTIONAL MATERIAL, SHALL BE REMOVED.
 2. SEED MIXTURE (SEE BELOW) SHALL BE SPREAD UNIFORMLY IN ALL AREAS AT THE SPECIFIED RATE.
 3. FERTILIZER SHALL BE APPLIED ONLY AFTER PERFORMING A SOIL TEST AND BE APPLIED BASED UPON SOIL DEFICIENCIES. LIME SHALL ONLY BE APPLIED AS NEEDED BASED UPON A SOIL pH TEST.
 4. MULCHING SHALL IMMEDIATELY FOLLOW THE SEEDING OPERATION. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A MINIMUM RATE OF 2 TONS PER ACRE. SITE CONDITIONS MAY WARRANT THE APPLICATION OF A TACKLER OR NETTING TO HOLD THE MULCH IN PLACE. IF NECESSARY TO RETAIN THE MULCH, THE CONTRACTOR SHALL APPLY AN APPROVED TACKLER, OR NETTING, WITHOUT ADDITIONAL COST TO THE OWNER.
 5. HYDROSEEDING MAY BE USED IN LIEU OF SEEDING AND APPLYING MULCH DURING THE GROWING SEASON. HYDROSEEDING SHALL INCLUDE THE APPLICATION OF WOOD AND/OR PAPER BINDER MULCH. THE BINDER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, BUT SHALL NOT BE LESS THAN 1500 POUNDS PER ACRE ON SLOPES LESS THAN 15%, AND NOT LESS THAN 2000 POUNDS PER ACRE ON SLOPES GREATER THAN 15%. HYDROSEEDING ALONE SHALL NOT BE USED FOR TEMPORARY STABILIZATION AFTER SEPTEMBER 15.
 6. ALL SLOPES STEEPER THAN 3:1V SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. ALL DITCH CENTERLINE GRADES GREATER THAN 2% OR AS SHOWN ON THE PLANS SHALL HAVE EROSION MATTING APPLIED OVER THE SEED. EROSION MATTING SHALL CONSIST OF EROSION CONTROL BLANKET WITH 100% AGRICULTURAL STRAW MATRIX STITCH BOUND WITH DEGRADABLE TIEBARS BETWEEN TWO PHOTOGRADABLE POLYPROPYLENE NETTINGS, NORTH AMERICAN GREEN S150 OR EQUAL, NORTH AMERICAN GREEN DS150 MAY BE USED IN LAWN AREAS, ONLY WHEN SEEDING TAKES PLACE PRIOR TO SEPTEMBER 1.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS IN ALL DISTURBED AREAS TO BE RE-VEGETATED. VEGETATION GROWTH SHALL BE PERMANENT AND SUFFICIENT TO PREVENT EROSION OF THE UNDERLYING SOIL UNDER ALL CONDITIONS OF PRECIPITATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND CARING FOR SEEDING, MULCHING, AND AREAS OF ESTABLISHED VEGETATION UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER.

SEED MIX SPECIFICATIONS

CONSERVATION SEED MIX SHALL BE USED IN ALL DISTURBED AREAS.

POND SLOPES DISTURBED DURING CONSTRUCTION SHALL HAVE CONSERVATION MIX AND WETLAND SEED MIX APPLIED. THE WETLAND SEED MIX NEED ONLY BE APPLIED TO THE POND SLOPES EXTENDING TO 5 VERTICAL FEET ABOVE THE BOTTOM OF THE POND.

WETLAND SEED MIX SHALL BE OBTAINED FROM NEW ENGLAND WETLAND PLANTS, INC. WWW.NEWP.COM

CONSERVATION MIX GRASS SEED			NEW ENGLAND WETMIX (WETLAND SEED MIX)	
% BY WEIGHT	LBS. LIVE SEED PER ACRE	TYPE OF SEED	APPLICATION RATE:	AVAILABLE FROM:
35	35	CREEPING RED FESCUE	1 LB PER 2500 SF OR 18 LBS PER ACRE	NEW ENGLAND WETLAND PLANTS, INC. 820 WEST STREET WYBURN, MA 01902 415-548-4000 WWW.NEWP.COM
23	23	KENTUCKY BLUEGRASS		
15	15	ANNUAL RYE		
11	11	WINTER HARDY PERENNIAL RYE (VARIETY PENNINE, MANHATTAN OR SIMILAR VARIETY)		
6	6	WHITE CLOVER		
10	10	HIGHLAND BENTGRASS		
100	100	LIVE SEED / ACRE		

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K. Bellin
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

PARCEL # 08-087-002.000 DP 17-03

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Taft Farm Lots A & B
Stormwater Improvement Project
U.S. Route 2 & Talcott Road Williston, VT

STORMWATER & EPSC
DETAILS AND SPECIFICATIONS

Project No. 14129
Survey JMR
Design AR
Drawn BH
Checked DG
Date 08-30-16
Scale AS NOTED
Sheet number 3 of 3

Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDengineering.com