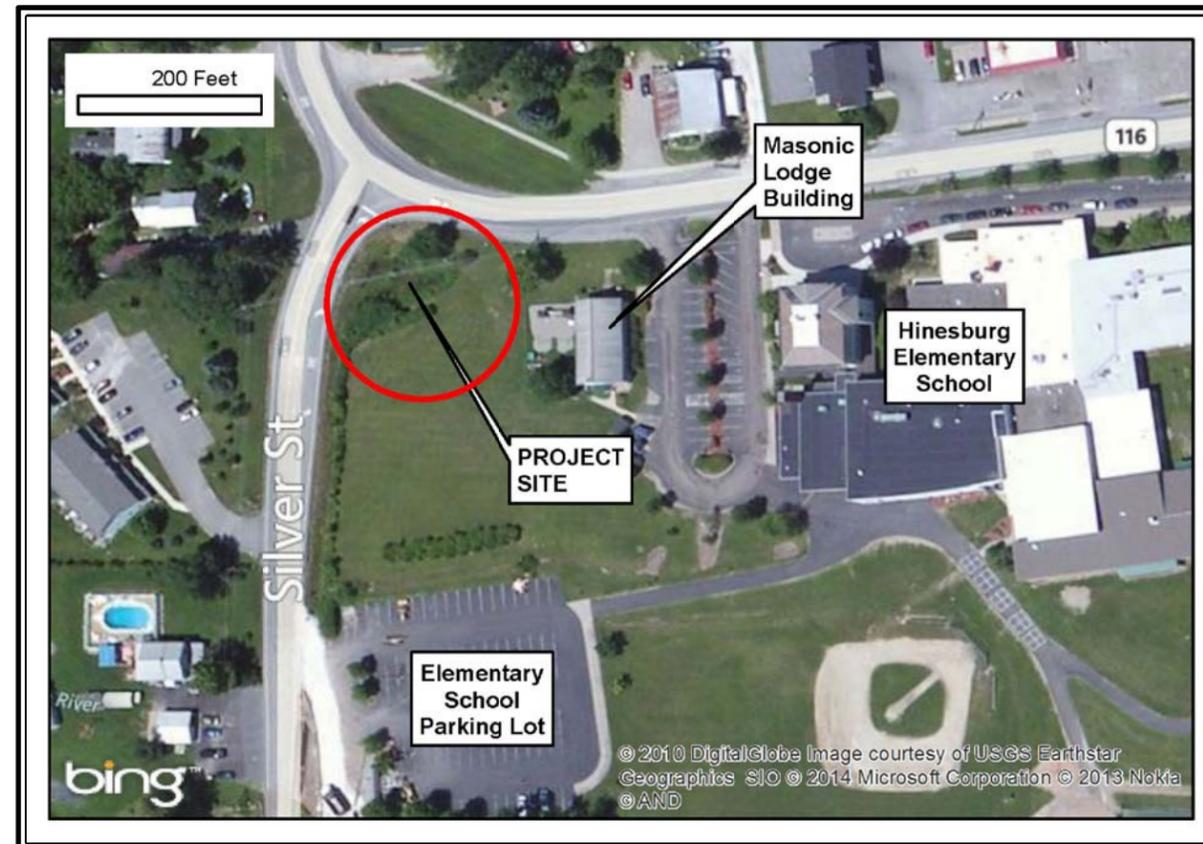


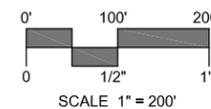
SILVER STREET RAIN GARDEN

SILVER STREET
HINESBURG, VERMONT

FINAL DESIGN
JUNE 3, 2014



PROJECT SITE VICINITY MAP:



PREPARED FOR:

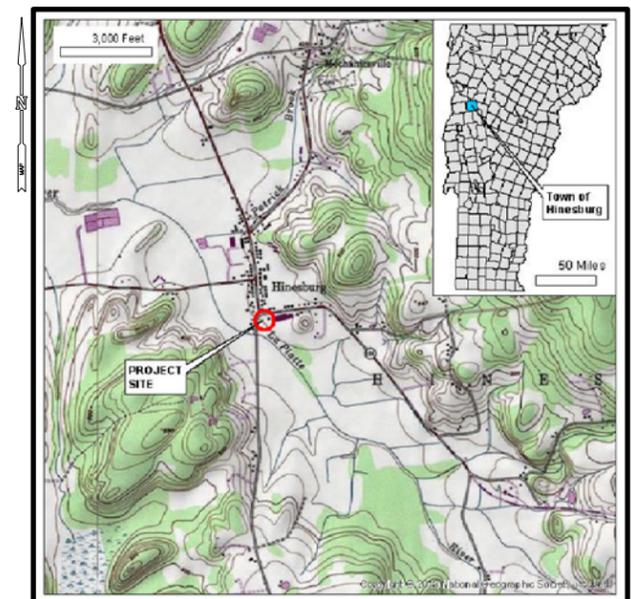
LEWIS CREEK ASSOCIATION

PROJECT PARTNERS:

TOWN OF HINESBURG

VERMONT AGENCY OF NATURAL RESOURCES

SHEET NO.	SHEET TITLE
---	TITLE SHEET & LOCATION MAP
NT1	NOTES AND CONSTRUCTION SEQUENCE
EX1	SITE PLAN - EXISTING CONDITIONS
PR1	SITE PLAN - PROPOSED CONDITIONS
LA1	SITE PLAN - PROPOSED LANDSCAPING
LA2	PLANTING LIST AND SEED MIX
XS1	CHANNEL PROFILE & CROSS SECTIONS
XS2	CROSS SECTIONS
SD1	SITE DETAILS
SD2	SITE DETAILS
SD3	SEDIMENT & EROSION CONTROL DETAILS



LOCATION MAP:

1"=6,000'

PREPARED BY:



MILONE & MACBROOM®

1 South Main Street - 2nd Floor
Waterbury, Vermont 05676
(802) 882-8335 Fax (802) 882-8346
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GENERAL NOTES

- THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A RAIN GARDEN, ITS ASSOCIATED OUTLETS, PLANTINGS, AND TO RESHAPE AN EXISTING DRAINAGE SWALE LOCATED AT THE OUTFALL OF THREE EXISTING STORM DRAINAGE SYSTEMS AT THE CORNER OF SILVER STREET AND VERMONT ROUTE 116 IN THE TOWN OF HINESBURG, VERMONT.
- THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE" AT 1-888-DIG-SAFE (344-7233). THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DISTURB EXISTING UTILITIES.
- THE PROPOSED RAIN GARDEN DESIGN IS GENERALLY BASED ON THE GUIDELINES PRESENTED IN THE "VERMONT RAIN GARDEN MANUAL" PUBLISHED BY THE WINOOSKI NATURAL RESOURCES CONSERVATION DISTRICT. A COPY OF THE RAIN GARDEN MANUAL ALONG WITH THIS DESIGN PLAN SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR AT ALL TIMES AND USED AS A REFERENCE WHERE NEEDED.
- THE FINAL LOCATION OF THE PROPOSED RAIN GARDEN TREATMENT CELLS, SEDIMENT FOREBAY, AND OUTLETS SHALL BE DETERMINED IN THE FIELD BY PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- THE ELEVATIONS PROPOSED FOR THE SEDIMENT FOREBAY, RAIN GARDEN, BERMS, AND OUTLETS MAY BE ADJUSTED SLIGHTLY BY PROJECT ENGINEER BASED ON FIELD CONDITIONS.
- TEMPORARY STOCKPILE AND STAGING AREAS ARE TO BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY THE TOWN AND PROJECT ENGINEER.
- THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR AND HIS/HER JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS AND PERMIT REQUIREMENTS.
- ALL STORAGE AND ACCESS ROUTES, PEDESTRIAN FENCES/BARRIERS, WORKING HOURS, AND LIMITS OF DISTURBANCE SHALL BE FLAGGED BY CONTRACTOR PRIOR TO CONSTRUCTION AND APPROVED BY TOWN AND PROJECT ENGINEER.
- NO DISTURBANCE BEYOND THE ESTABLISHED LIMITS OF CLEARING IS ALLOWED UNLESS PRIOR PERMISSION IS OBTAINED FROM THE PROJECT ENGINEER.
- ALL PROPOSED GRADES AND SPOT ELEVATIONS IN PLAN VIEW INDICATE FINISHED GRADE. THE NEED TO MODIFY PROPOSED FINISHED GRADES MAY BE REQUIRED IF UNEXPECTED CONDITIONS ARE ENCOUNTERED (E.G., BEDROCK, LEDGE, ETC.) OR IF SIGNIFICANT CHANGES TO EXISTING CONDITIONS OCCURS. CONSULT PROJECT ENGINEER FOR CHANGES.
- NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT WILL BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN, APPROPRIATE AUTHORITIES AND PROJECT ENGINEER.
- THE PROJECT SITE IS SUBJECT TO FLOODING FROM THE EXISTING STORM DRAINAGE OUTFALLS. THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND STABILIZE THE CONSTRUCTION SITE AND REMOVE EQUIPMENT FROM FLOOD PRONE AREAS IN THE EVENT OF FLOOD WARNINGS. WORK SHOULD BE PERFORMED DURING LOW WATER.
- THERE SHALL BE NO CLAIMS FOR EXTRA COMPENSATION DUE TO DELAYS IN WATER CONTROL ASSOCIATED WITH HIGH WATER LEVELS FROM NATURAL EVENTS SUCH AS FLOODS.
- THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD, AND CONSTRUCTION DEBRIS. CONSTRUCTION ENTRANCES SHALL BE PROVIDED AS NECESSARY.
- CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS THROUGHOUT DURATION OF PROJECT.
- COMPLIANCE WITH ALL CONDITIONS OF APPLICABLE AND SECURED PERMITS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
- ANY TRAFFIC CONTROL MUST CONFORM TO GUIDELINES SET IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", MOST CURRENT EDITION, AS PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- ANY MATERIAL EXPORTED OFF-SITE SHALL BE LEGALLY DISPOSED OF IN AN UPLAND LOCATION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR FINDING A SUITABLE RECIPIENT OF THE MATERIAL, GAINING REGULATORY APPROVAL FOR EXPORTED MATERIAL PLACEMENT IF NEEDED, AND HAULING.
- ALL AREAS SURROUNDING THE PROJECT SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED UPON COMPLETION OF CONSTRUCTION. THE RESTORATION OF THE SITE IS SUBJECT TO APPROVAL BY THE TOWN AND THE PROJECT ENGINEER.
- FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PARTICIPATE IN A FINAL SITE INSPECTION WITH THE TOWN AND PROJECT ENGINEER FOR THE PURPOSE OF VERIFYING THAT THE PROJECT HAS BEEN COMPLETED ACCORDING TO THE CONSTRUCTION PLANS, SPECIFICATIONS AND THE TERMS AND CONDITIONS OF THE CONTRACT.

GENERAL NOTES (CON'T)

- SURVEY DATA COLLECTED IN DECEMBER 2013 AND JANUARY 2014 BY MILONE & MACBROOM, INC. BASE MAPPING SUPPLEMENTED WITH 2-FOOT CONTOURS DERIVED FROM CHITTENDEN COUNTY LIDAR DATA. ALL ELEVATIONS REFER TO THE NAVD 88 VERTICAL DATUM.
- PROPERTY BOUNDARIES SHOWN ON THE BASE MAPPING WERE OBTAINED FROM THE VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI) AND SHOULD BE CONSIDERED APPROXIMATE IN NATURE.
- FEATURES SHOWN ON THE BASE MAPPING WERE OBTAINED FROM AVAILABLE GIS DATA, AERIAL PHOTOGRAPHY, AND FIELD MEASUREMENTS. THE HORIZONTAL DATUM REFERENCES THE NAD 83 VERMONT STATE PLANE WITH UNITS OF FEET.

CONSTRUCTION NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AND ITS LATEST REVISIONS.
- ALL FILL AREAS USED TO CREATE THE EMBANKMENTS OF THE RAIN GARDEN TREATMENT CELLS SHALL BE COMPACTED USING VIBRATORY EQUIPMENT OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH THE COMPACTION APPROACH PLANNED FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR OTHER SIMILAR CONDITIONS.
- IF ANY CONDITIONS ARISE DURING CONSTRUCTION THAT PRECLUDE COMPLIANCE WITH THE DETAILS SHOWN ON THESE DRAWINGS, THE WORK IN THE AFFECTED AREAS SHALL CEASE AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES, BLASTING, SHORING, AND PROTECTION.

EROSION CONTROL NOTES

- THE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED AS PART OF THE PROJECT SHALL BE IMPLEMENTED AND MAINTAINED ACCORDING TO "THE LOW RISK SITE HANDBOOK FOR EROSION PROTECTION AND SEDIMENT CONTROL" GUIDANCE DOCUMENT FROM THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION, WHERE APPLICABLE IN CONSULTATION WITH PROJECT ENGINEER.
- THE PROJECT IS LOCATED ON A SLOPED SITE WHERE RUNOFF WILL BE MOSTLY DIRECTED TO AN EXISTING DRAINAGE SWALE WITHIN THE PROJECT LIMITS. REFER TO THE SEDIMENT AND EROSION CONTROL PLAN FOR SPECIFIC CONTROLS NEEDED. ADDITIONAL CONTROLS MAY BE REQUIRED IF SEDIMENT MIGRATION IS OBSERVED DURING CONSTRUCTION, AS DETERMINED BY THE PROJECT ENGINEER IN THE FIELD.
- THE LIMITS OF DISTURBANCE SHALL BE CLEARLY MARKED IN THE FIELD FOR REVIEW BY THE PROJECT ENGINEER.
- CLEARING OF NATIVE VEGETATION FOR CONSTRUCTION SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
- LIMIT SOIL DISTURBANCE. NO DISTURBED SOIL SURFACES SHALL BE ALLOWED TO REMAIN EXPOSED FOR MORE THAN 7 CONSECUTIVE DAYS.
- SITE ACCESS IS PROPOSED FROM THE EXISTING ELEMENTARY SCHOOL PARKING LOT LOCATED ALONG SILVER STREET. AN IMPROVED STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IF SOIL TRACKING OCCURS. IF REQUIRED, THE CONSTRUCTION ENTRANCE MUST BE MAINTAINED THROUGHOUT ITS USE.
- THE CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD AND CONSTRUCTION DEBRIS.
- SILT FENCE SHALL BE INSTALLED AS DIRECTED BY PROJECT ENGINEER AND MAINTAINED DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. THE CONSTRUCTION INSPECTOR WILL VERIFY THE MAINTENANCE ON A PREDETERMINED SCHEDULE AND AFTER RAINFALL EVENTS OF 0.5 INCH OR GREATER.
- THE PROJECT ENGINEER IS TO BE NOTIFIED IMMEDIATELY IF EXCESSIVE SEDIMENT EROSION TAKES PLACE, IF SIGNIFICANT FINE GRAIN SEDIMENT IS ENCOUNTERED OR IF POTENTIALLY CONTAMINATED SEDIMENTS ARE ENCOUNTERED (OILY, DARK COLOR, CHEMICAL ODOR).
- ANY DISTURBED SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKET PER DIRECTION OF PROJECT ENGINEER, SEE DETAIL.
- WITHIN 48 HOURS OF FINAL GRADING, EXPOSED SOIL NOT PROTECTED BY STONE RIPRAP MUST BE SEEDED AND MULCHED (SEE PLANTING NOTES).

EROSION CONTROL NOTES (CON'T)

- THE CONTRACTOR SHALL PERFORM SITE INSPECTIONS TO ENSURE THAT ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE FUNCTIONING.
- THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS.
- A COPY OF ALL PLANS AND REVISIONS, APPLICABLE PERMITS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE

THE PROPOSED CONSTRUCTION SEQUENCE IS PROVIDED FOR GENERAL INFORMATION ONLY. SEE PLANS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL NOTES. THE OVERALL SEQUENCE OF CONSTRUCTION IS TO ULTIMATELY BE DETERMINED BY THE CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL.

- STAKE LIMITS OF DISTURBANCE, STOCKPILE AREAS, AND STAGING AREAS FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- INSTALL EROSION CONTROLS AS SPECIFIED ON THE PLANS.
- REMOVE EXISTING SOD, STRIP AND STOCKPILE EXISTING TOPSOIL FOR REUSE.
- EXCAVATE TO BEGIN CREATING TREATMENT CELL 2 OF THE RAIN GARDEN.
- CONSTRUCT FILL BERM FOR CELL 2 ACCORDING TO THE SPECIFICATIONS PROVIDED ON THE PLANS.
- CONSTRUCT STONE OUTLET WEIR FOR TREATMENT CELL 2 PER THE PROVIDED DETAIL.
- EXCAVATE TO CREATE TREATMENT CELL 1 OF THE RAIN GARDEN. MAINTAIN EXISTING DRAINAGE SWALE UNDISTURBED TO THE EXTENT POSSIBLE TO ALLOW FLOW THRU THE PROJECT SITE UNTIL RISER OUTLET FROM TREATMENT CELL 1 TO CELL 2 IS IN PLACE.
- INSTALL THE STONE FILTER BERM AND SPLASH PADS AT THE OUTLET OF THE EXISTING STORM DRAINAGE SYSTEMS IN TREATMENT CELL 1 PER THE PROVIDED DETAILS.
- INSTALL THE RISER OUTLET IN TREATMENT CELL 1 AND STONE SPLASH PAD AT THE OUTLET OF THE RISER IN CELL 2 PER THE PROVIDED DETAILS.
- COMPLETE CONSTRUCT FILL BERM BETWEEN TREATMENT CELL 1 AND CELL 2. DIRECT FLOW FROM EXISTING DRAINAGE SWALE TO OUTLET RISER.
- CONSTRUCT THE STONE BYPASS WEIR ACCORDING TO THE PROVIDED DETAILS.
- RESHAPE EXISTING DRAINAGE SWALE AND INSTALL STONE CHECK DAMS AS SHOWN ON THE PLANS AND PER THE PROVIDED DETAILS.
- INSTALL EROSION CONTROL MATTING WITHIN THE RESHAPED DRAINAGE SWALE AND PLACE SEED MIX ACCORDING TO THE LANDSCAPE PLAN AND PLANTING NOTES.
- PLACE ALL PROPOSED PLANTINGS, TREES, SHRUBS, AND SEED MIX ACCORDING TO THE LANDSCAPE PLAN AND PLANTING NOTES.
- RESTORE ANY REMAINING DISTURBED AREAS. REMOVE ALL SEDIMENT AND EROSION CONTROLS ONCE VEGETATION HAS FULLY ESTABLISHED.

OPERATION AND MAINTENANCE

- ALL OF THE FOLLOWING TASKS SHOULD BE PERFORMED ONCE ANNUALLY AT A MINIMUM OR AS NOTED. IN ADDITION, THE FOLLOWING SHOULD BE PERFORMED AFTER A RAINFALL EVENT EQUAL TO OR GREATER THAN 2-INCHES OVER A 24-HOUR PERIOD AND AFTER A RAIN ON SNOW EVENT. ALL MATERIAL REMOVED AND EXPORTED FROM THE SITE SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH CURRENT REGULATORY STANDARDS AND IN LEGALLY ACCEPTABLE DISPOSAL AREAS.
- THE ACCUMULATION OF SEDIMENT WITHIN THE FOREBAY AREA SHOULD BE MONITORED AND INSPECTED A MINIMUM OF ONCE ANNUALLY. REMOVE SEDIMENT AFTER APPROXIMATELY 12 INCHES OF SEDIMENT HAS ACCUMULATED.
- THE RISER OUTLET SHALL BE INSPECTED FOR BLOCKAGE, ACCUMULATION OF DEBRIS, OR DAMAGE TWICE ANNUALLY. OBSTRUCTIONS OR DEBRIS IMPEDING FLOW THROUGH THE RISER SHALL BE REMOVED IMMEDIATELY.
- THE STONE BYPASS WEIR AND STONE OUTLET WEIR SHOULD BE VISUALLY INSPECTED FOR EROSION OR DAMAGE A MINIMUM OF ONCE ANNUALLY. OBSTRUCTIONS OR DEBRIS IMPEDING FLOW SHALL BE REMOVED IMMEDIATELY.
- THE STONE SPLASH PADS AND RIPRAP FILTER BERM SHOULD BE VISUALLY INSPECTED FOR EROSION OR DAMAGE A MINIMUM OF ONCE ANNUALLY.
- THE RESHAPED DRAINAGE SWALE AND STONE CHECK DAMS SHOULD BE MONITORED FOR EROSION A MINIMUM OF ONCE ANNUALLY. VEGETATION SHOULD BE MOWED A MINIMUM OF ONCE ANNUALLY TO MAINTAIN DESIGN CAPACITY. OBSTRUCTIONS OR DEBRIS IMPEDING FLOW IN THE SWALE SHALL BE REMOVED IMMEDIATELY.
- ALL PLANTINGS SHOULD BE MONITORED FOR HEALTH AND VITALITY A MINIMUM OF ONCE ANNUALLY. TRIMMING, MOWING, AND PRUNING SHOULD BE PERFORMED AS APPROPRIATE. MONITOR RAIN GARDEN TREATMENT CELLS FOR INVASIVE SPECIES.

REVISIONS

NOTES AND CONSTRUCTION SEQUENCE

SILVER STREET RAIN GARDEN

SILVER STREET
HINESBURG, VERMONT

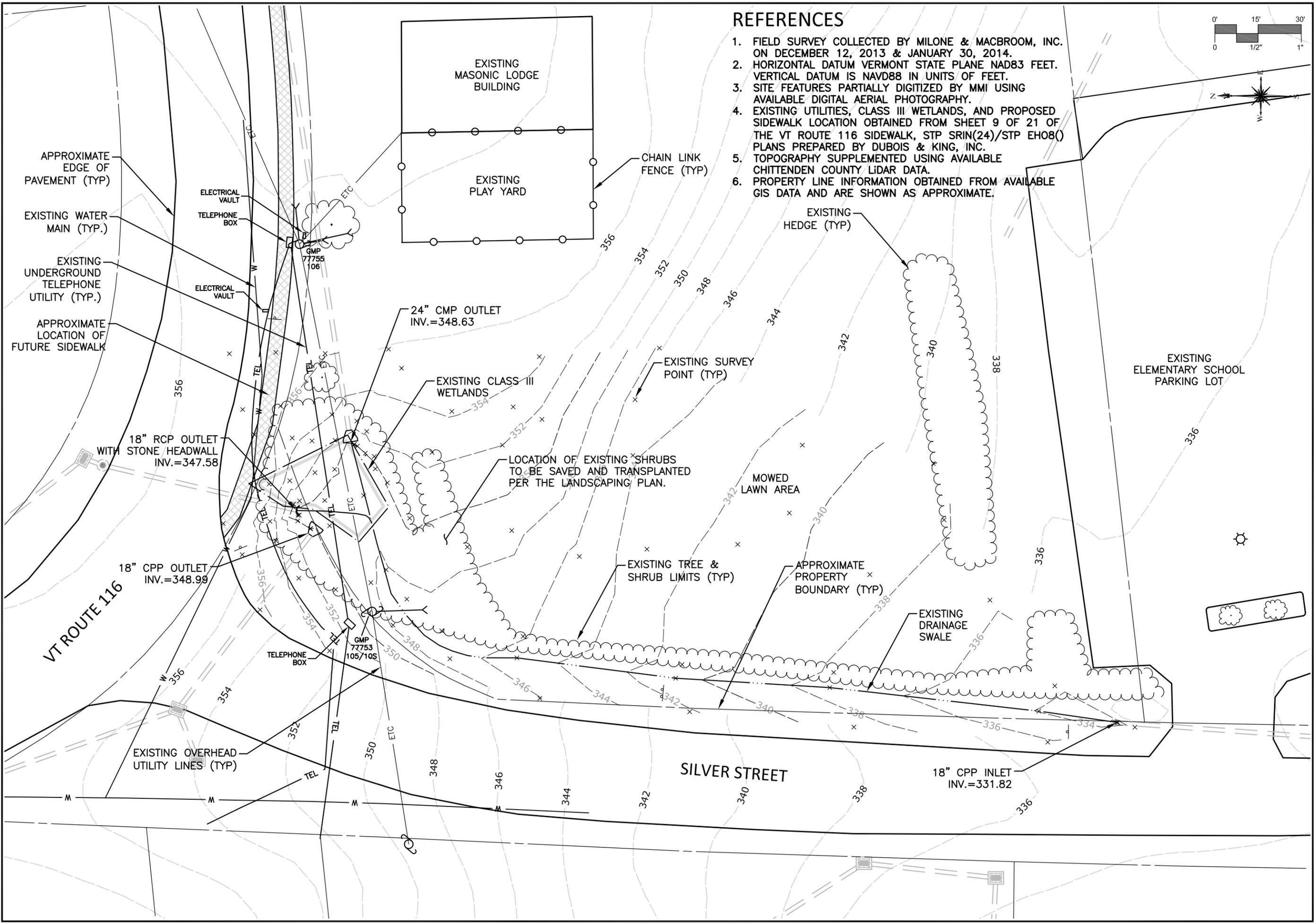
FINAL DESIGN

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SCALE AS SHOWN		
DATE JUNE 3, 2014		
PROJECT NO. 3452-19-1		
SHEET NO. NT1		



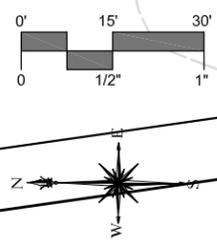
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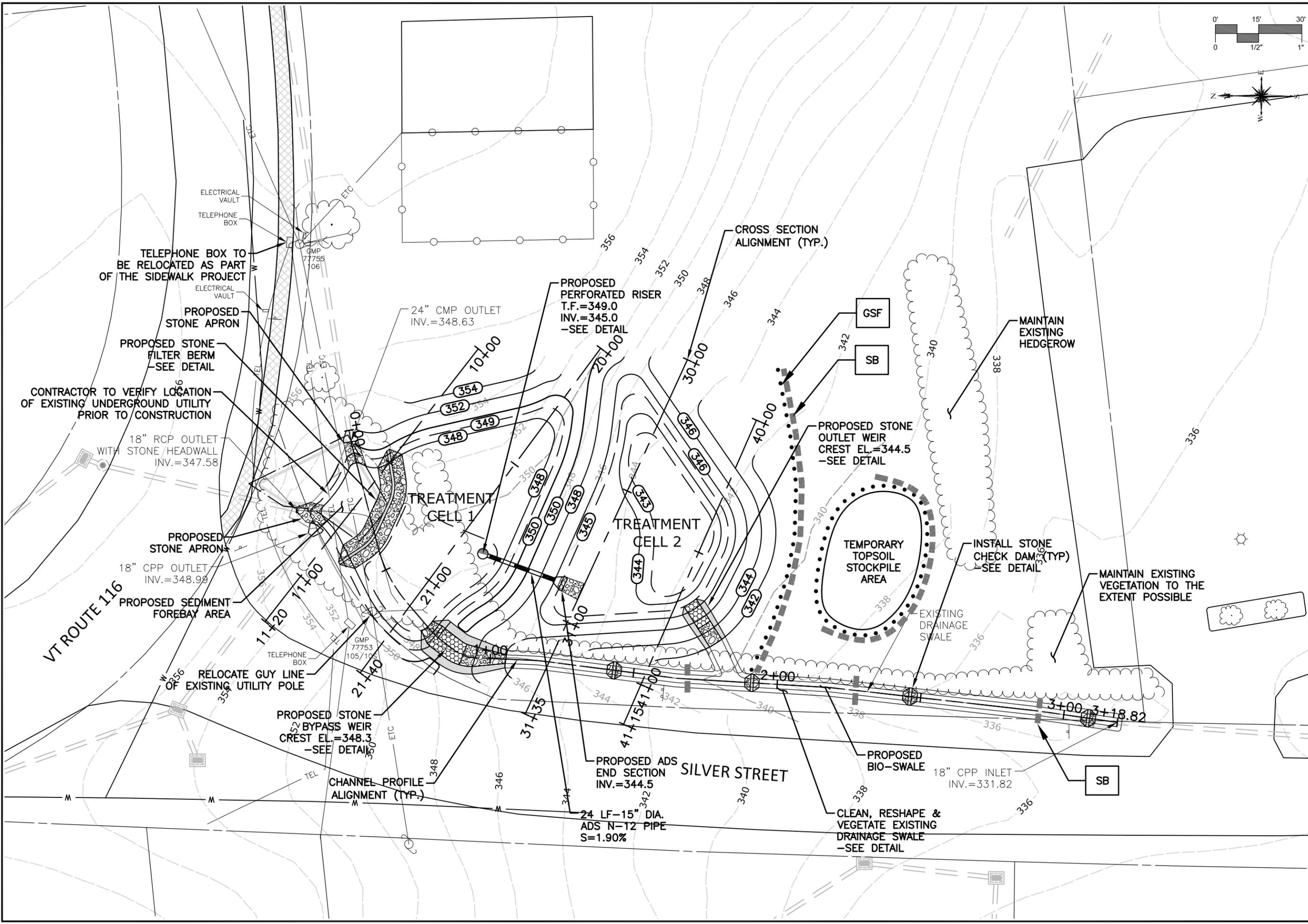
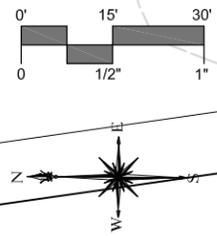
REFERENCES

1. FIELD SURVEY COLLECTED BY MILONE & MACBROOM, INC. ON DECEMBER 12, 2013 & JANUARY 30, 2014.
2. HORIZONTAL DATUM VERMONT STATE PLANE NAD83 FEET. VERTICAL DATUM IS NAVD88 IN UNITS OF FEET.
3. SITE FEATURES PARTIALLY DIGITIZED BY MMI USING AVAILABLE DIGITAL AERIAL PHOTOGRAPHY.
4. EXISTING UTILITIES, CLASS III WETLANDS, AND PROPOSED SIDEWALK LOCATION OBTAINED FROM SHEET 9 OF 21 OF THE VT ROUTE 116 SIDEWALK, STP SRIN(24)/STP EHO8() PLANS PREPARED BY DUBOIS & KING, INC.
5. TOPOGRAPHY SUPPLEMENTED USING AVAILABLE CHITTENDEN COUNTY LIDAR DATA.
6. PROPERTY LINE INFORMATION OBTAINED FROM AVAILABLE GIS DATA AND ARE SHOWN AS APPROXIMATE.



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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">REVISIONS</th> <th style="width: 50%;">FINAL DESIGN</th> </tr> <tr> <td style="height: 40px;"> </td> <td style="text-align: center;">FINAL DESIGN</td> </tr> </table>	REVISIONS	FINAL DESIGN		FINAL DESIGN	<p>SITE PLAN - EXISTING CONDITIONS</p> <p>SILVER STREET RAIN GARDEN</p> <p>SILVER STREET HINESBURG, VERMONT</p>	
REVISIONS	FINAL DESIGN					
	FINAL DESIGN					
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BMC DESIGNED	BMC DRAWN	RKS CHECKED				
<p style="font-size: large; font-weight: bold;">EX1</p>						

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SHEET NO.		
SITING CONDITIONS	FINAL DESIGN	
SILVER STREET RAIN GARDEN	SILVER STREET HINESBURG, VERMONT	
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SCALE: 1"=30'		
DATE: JUNE 3, 2014		
PROJECT NO.: 3452-19-1		
PR1		

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PLANTING LIST

	Quantity	Botanical Name	Common Name	Size
Trees and Shrubs	5	Acer rubrum	Red Maple	1 3/4" - 2"
	30	Aronia arbutifolia Brilliantissima	Red Chokeberry	3 gal
	15	Cephalanthus occidentalis	Buttonbush	3 gal
	30	Clethra alnifolia	Summersweet	3 gal
	15	Cornus racemosa	Gray Dogwood	3 gal
	5	Cornus serica Silver and Gold	Variiegated Yellow Dogwood	3 gal
	15	Hamamelis virginiana	Witch Hazel	3 gal
	10	Ilex verticilata Afterglow	Winterberry	3 gal
	15	Ilex verticilata Berry Heavy	Winterberry	3 gal
	5	Ilex verticilata Red Sprite	Winterberry	3 gal
	20	Ilex verticilata Jim Dandy	Winterberry	3 gal
Zone A	300	Acorus americanus	Sweetflag	2" plug
	300	Carex vulphinoidea	Fox Sedge	2" plug
	400	Caltha palustis	Marsh Marigold	2" plug
	350	Juncus effusus	Common Rush	2" plug
	300	Iris versicolor	Blue Flag Iris	2" plug
Zone B	25	Amsonia tabernaemontana	Blue Star Flower	4" pot
	200	Asclepias incarta	Swamp Milkweed	2" plug
	50	Aster nova angliae	New England Aster	2" plug
	25	Baptisia australis	False Blue Indigo	4" pot
	25	Boltonia asteroides	Bolton's Aster	4" pot
	150	Chelone glabra	Turtlehead	2" plug
	150	Eupatorium maculatum	Joe Pye Weed	2" plug
	150	Lobelia cardinalis	Cardinal I Flower	2" plug
	150	Lobelia siphilitica	Blue Lobelia	2" plug
	25	Monarda	Bee Balm	4" pot
	150	Osmunda cinnamomea	Cinnamon Fern	Bareroot
	100	Symphotrichum nova angliae	New England Aster	2" plug
	50	Verbena hastq	Blue Vervain	2" plug
25	Veronicastrum virginicum	Culver's Root	4" pot	

SEEDING LEGEND

ZONE C - RAIN GARDEN FRINGE, RESHAPED SWALE & DISTURBED AREAS

CONSERVATION GRASS SEED MIX

SEED MIX PER VERMONT WETLAND PLANT SUPPLY OR APPROVED EQUAL. SEED RAIN GARDEN FRINGE AND SIDE SLOPES, ALONG RESHAPED SWALE, AND ALL DISTURBED AREAS AS SHOWN. BEST RESULTS ARE OBTAINED WITH AN EARLY SPRING SEEDING. SUMMER SEEDING CAN BE SUCCESSFUL WITH A LIGHT MULCH OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRES A SLIGHT INCREASE IN SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS SOILS ARE PARTICULARLY INFERTILE. APPLICATION RATE: 20 LBS/ARCE

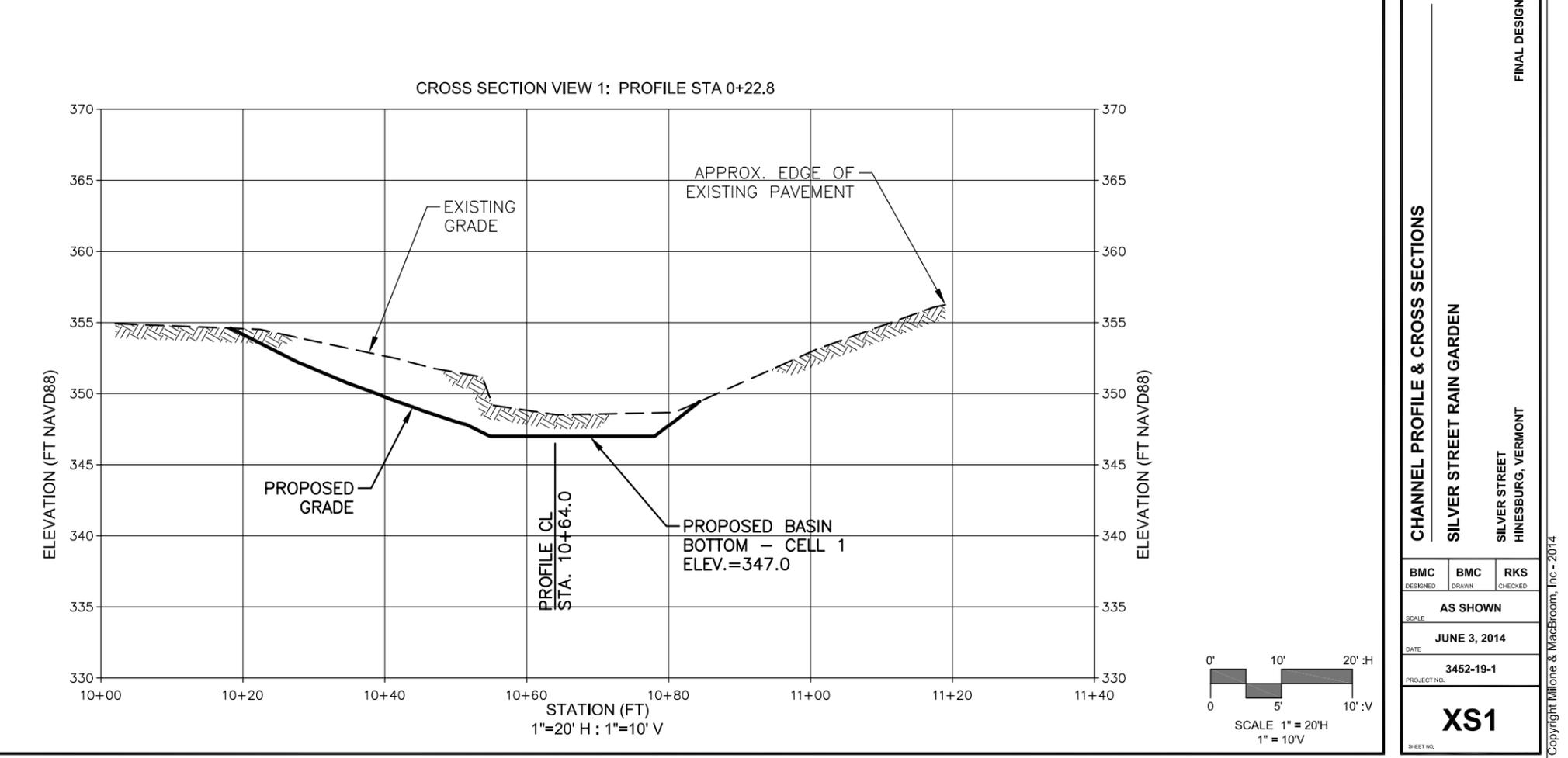
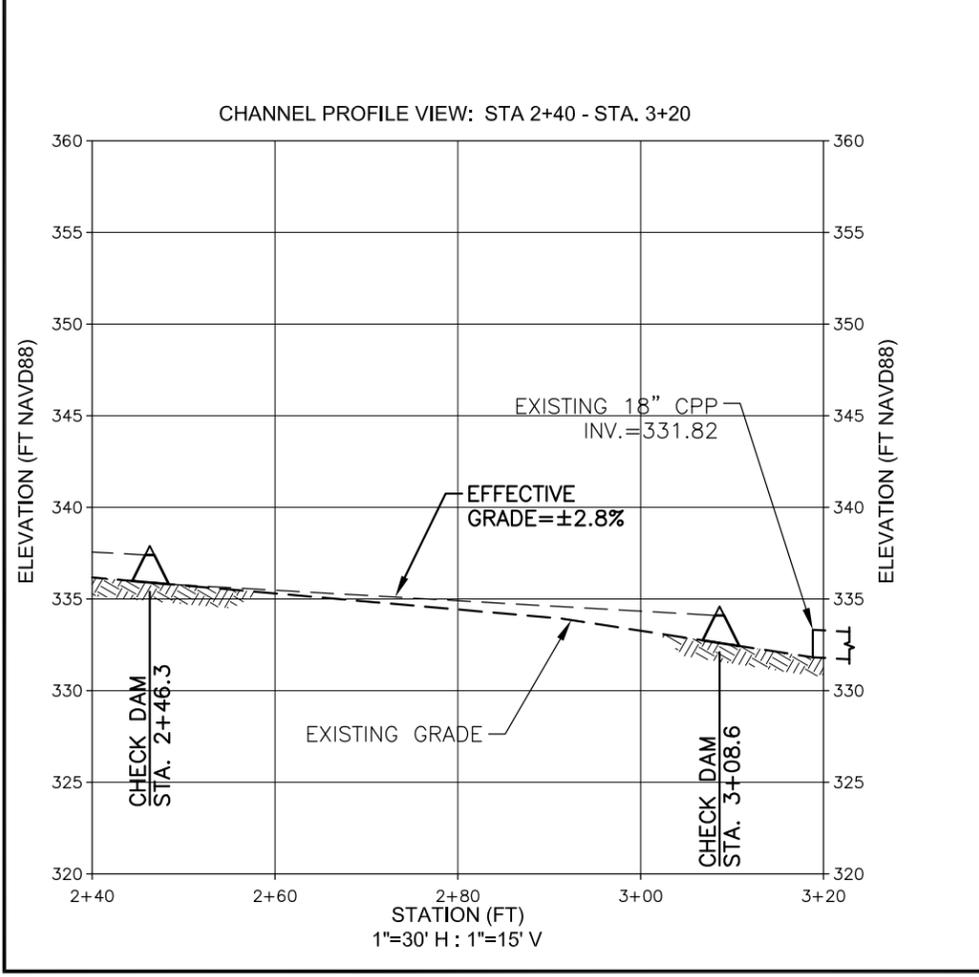
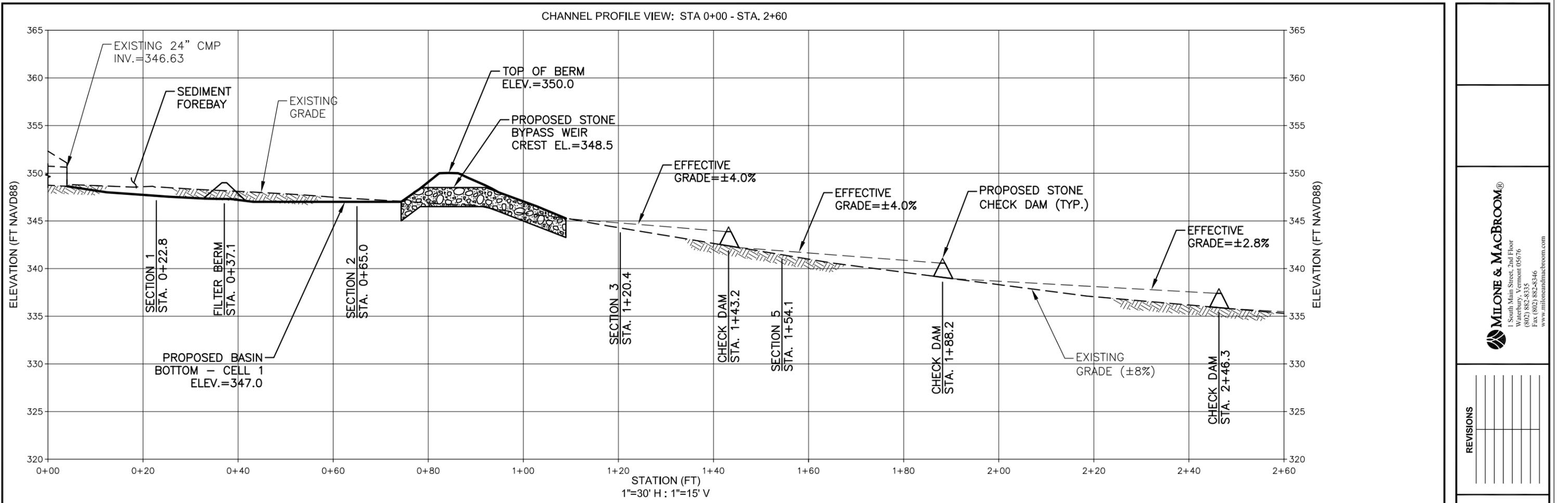
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REVISIONS					
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PLANTING LIST AND SEED MIX
 SILVER STREET RAIN GARDEN
 SILVER STREET
 HINESBURG, VERMONT

FINAL DESIGN

AM/BC DESIGNED	BMC DRAWN	RKS CHECKED
SCALE: AS SHOWN		
DATE: JUNE 3, 2014		
PROJECT NO: 3452-19-1		
LA2		



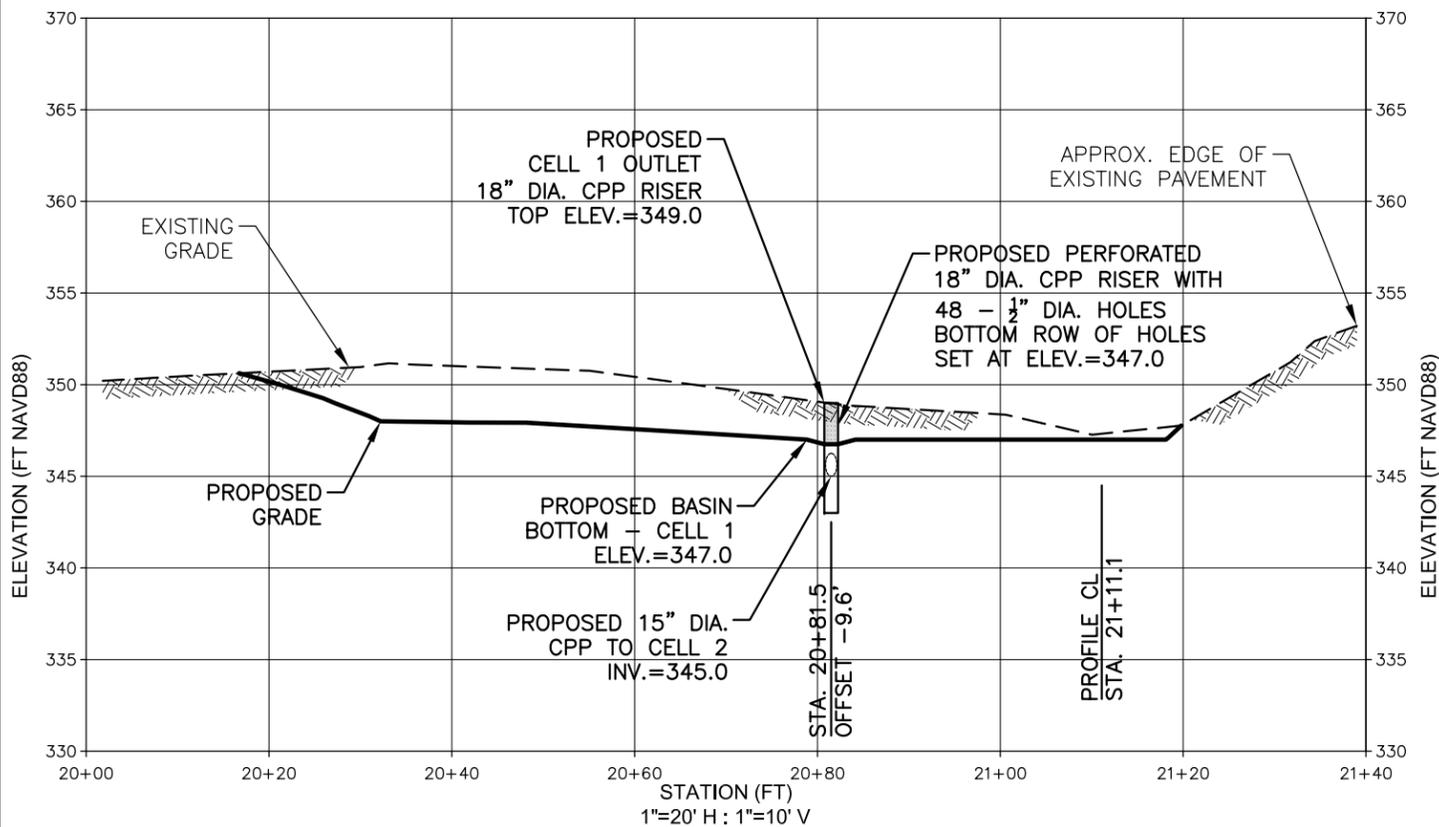
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REVISIONS	FINAL DESIGN
	<p>CHANNEL PROFILE & CROSS SECTIONS</p> <p>SILVER STREET RAIN GARDEN</p> <p>SILVER STREET HINESBURG, VERMONT</p>

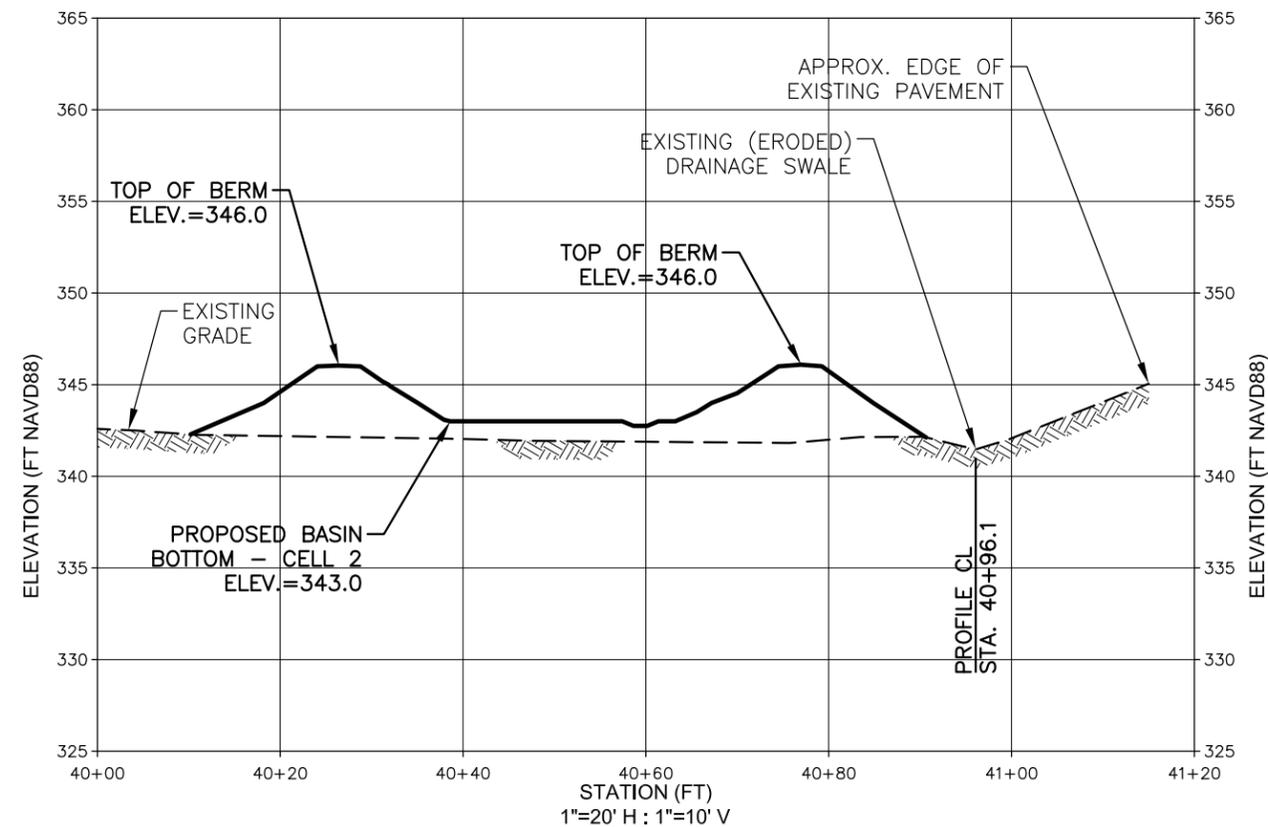
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XS1		

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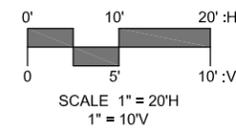
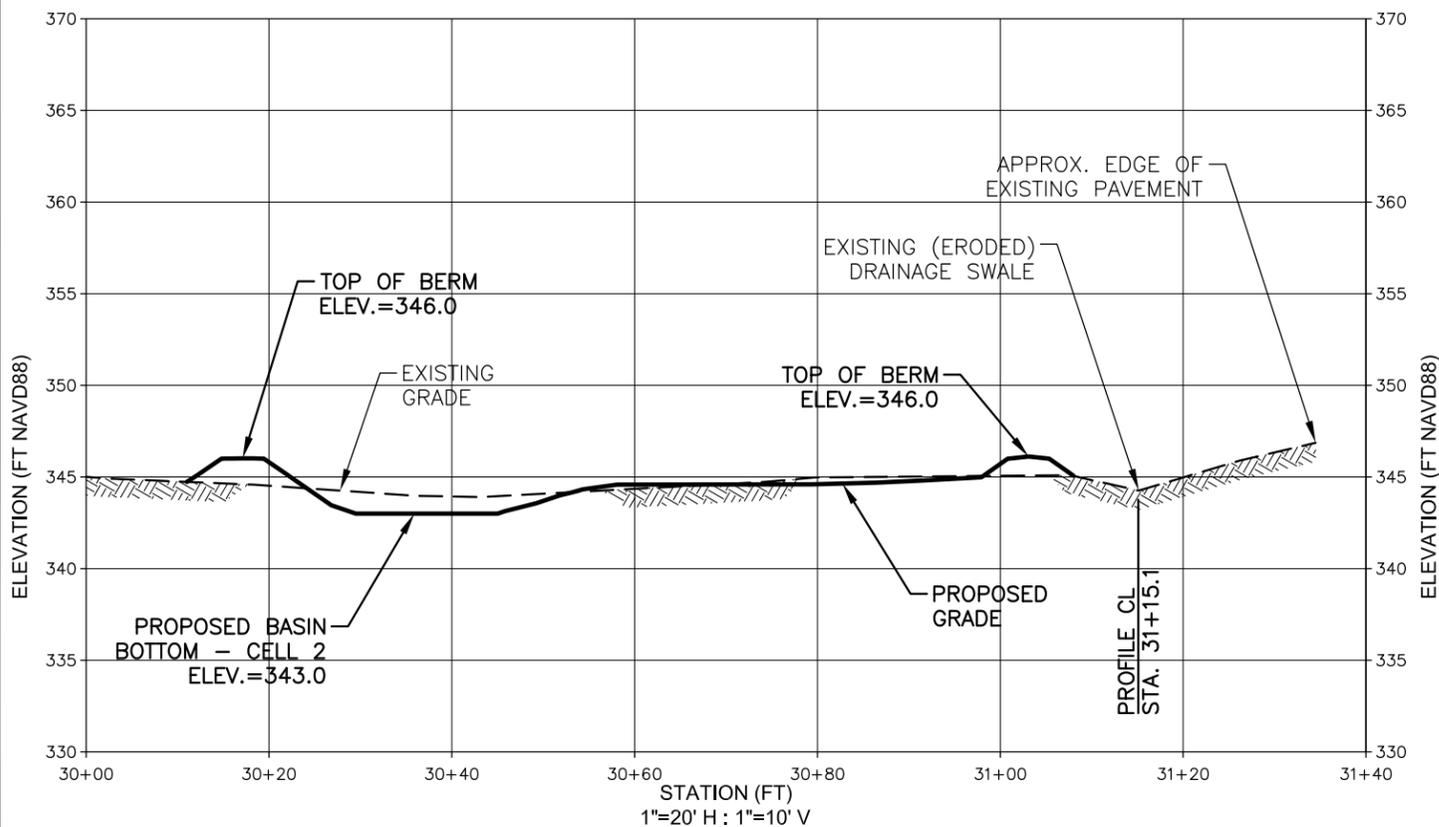
CROSS SECTION VIEW 2: PROFILE STA 0+65.0



CROSS SECTION VIEW 4: PROFILE STA 1+54.1



CROSS SECTION VIEW 3: PROFILE STA 1+20.4



1 South Main Street, 2nd Floor
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REVISIONS

CROSS SECTIONS

SILVER STREET RAIN GARDEN

SILVER STREET
HINESBURG, VERMONT

FINAL DESIGN

BMC DESIGNED
 BMC DRAWN
 RKS CHECKED

SCALE AS SHOWN

DATE JUNE 3, 2014

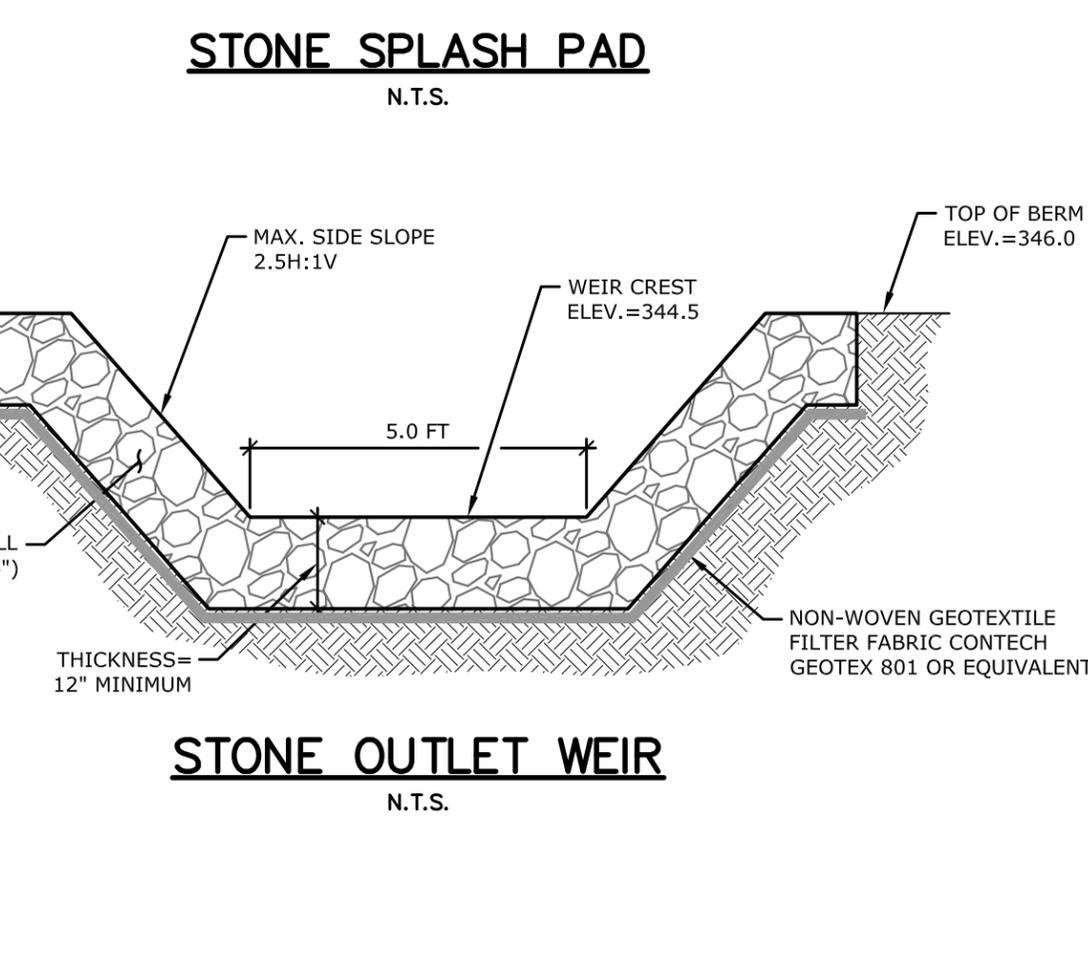
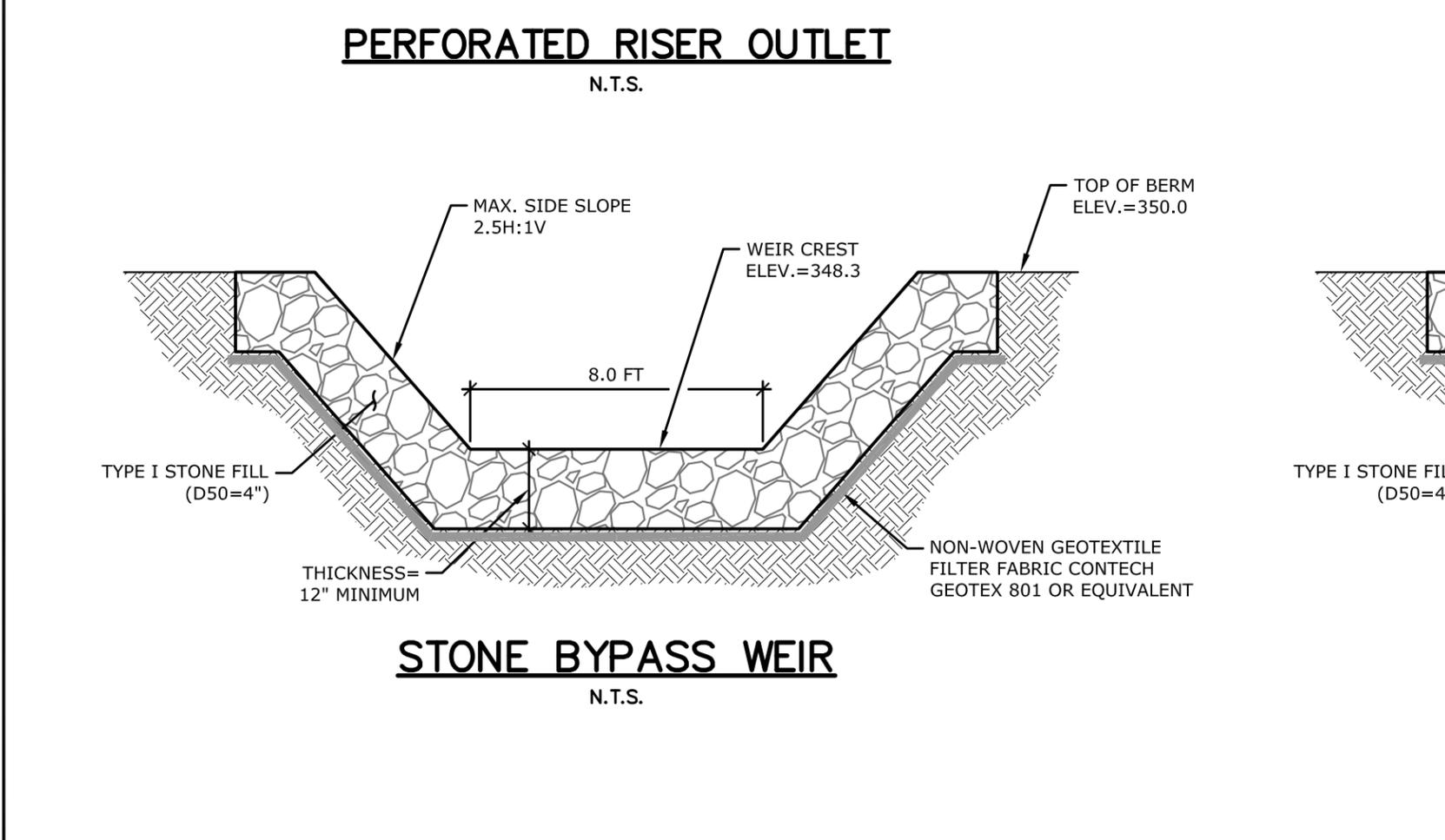
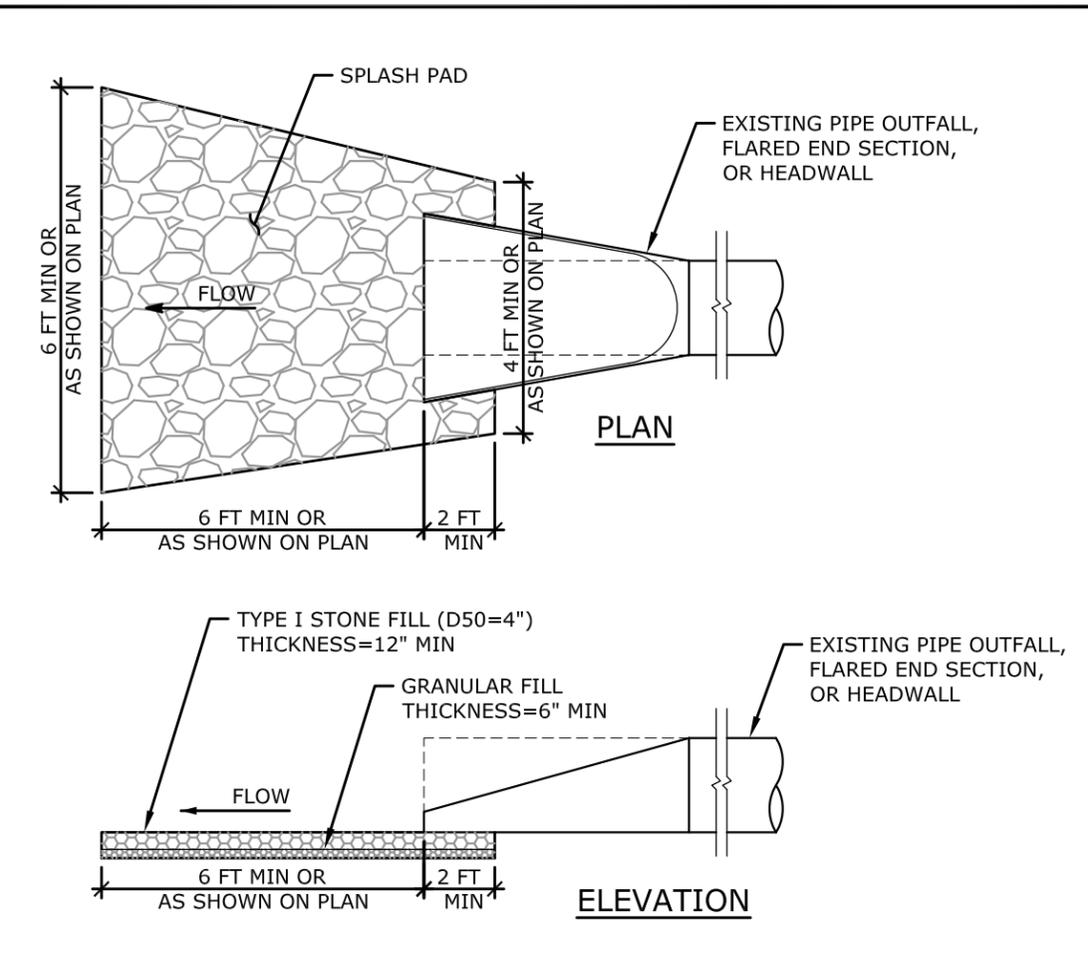
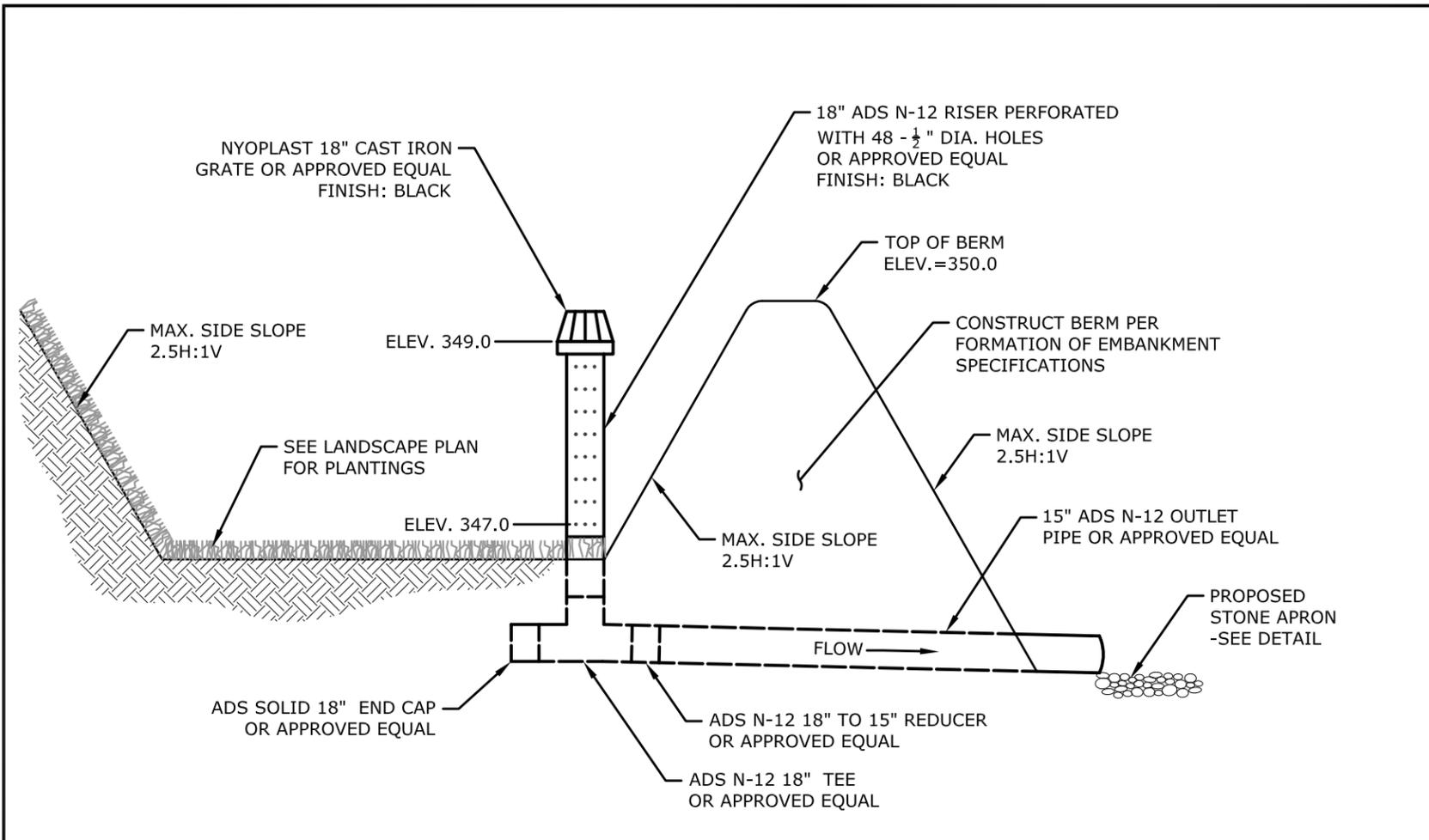
PROJECT NO. 3452-19-1

XS2

SHEET NO.

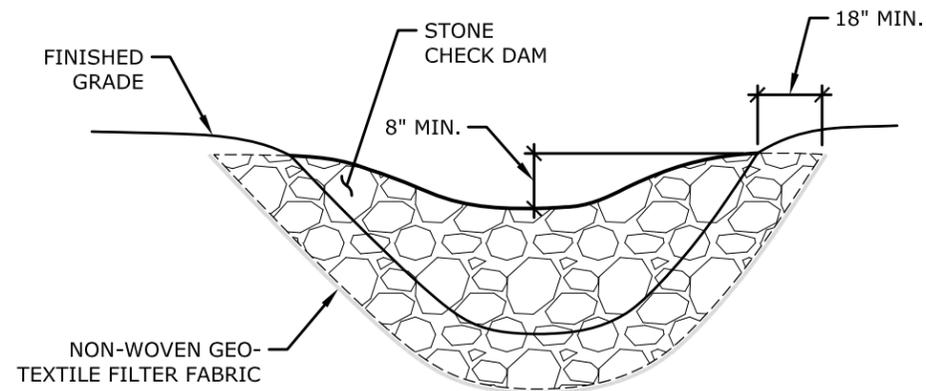
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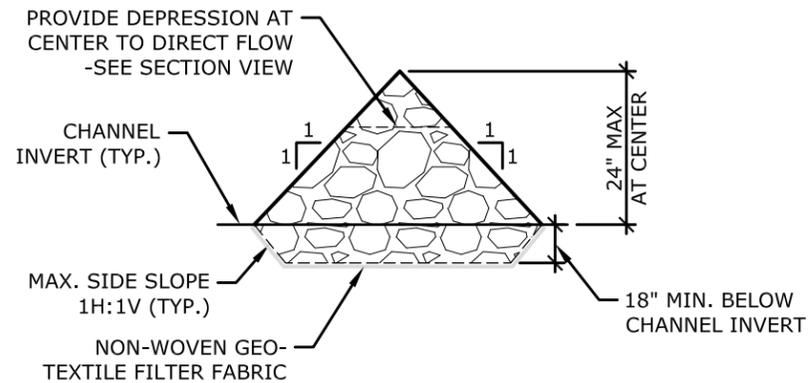


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REVISIONS		
SITE DETAILS	FINAL DESIGN	
SILVER STREET RAIN GARDEN	SILVER STREET HINESBURG, VERMONT	
BMC DESIGNED	BMC DRAWN	RKS CHECKED
SCALE: AS SHOWN		
DATE: JUNE 3, 2014		
PROJECT NO.: 3452-19-1		
SD1		
SHEET NO.		

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SECTION VIEW



ELEVATION VIEW

NOTES:

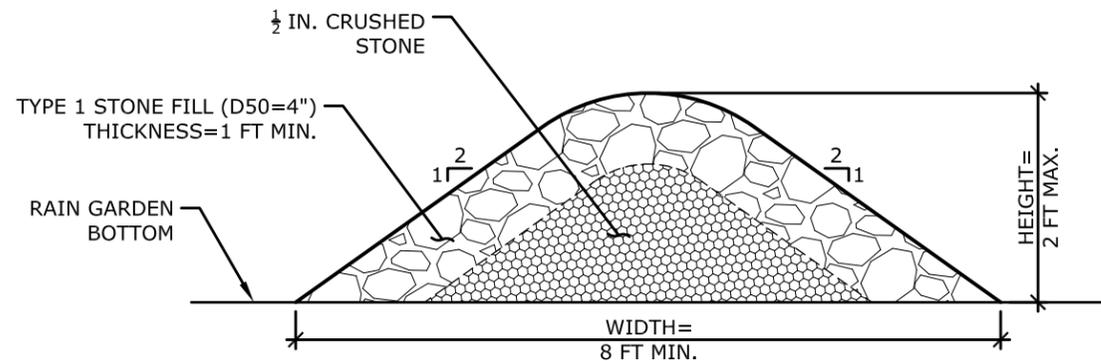
EXTEND THE STONE A MINIMUM OF 18 INCHES BEYOND THE BANKS AND CHANNEL INVERT OF THE SWALE TO PREVENT CUTTING AROUND THE ENDS OF OR UNDERNEATH THE CHECK DAM.

USE TYPE 1 STONE FILL (D50=4") TO CREATE CHECK DAM. USE 1/2 INCH CRUSHED STONE TO CREATE THE CUTOFF TRENCH.

USE CONTECH GEOTEX 801 NON-WOVEN GEOTEXTILE FILTER FABRIC OR APPROVED EQUAL ALONG THE BOTTOM OF THE CUTOFF TRENCH AS A FILTER

STONE CHECK DAM

N.T.S.



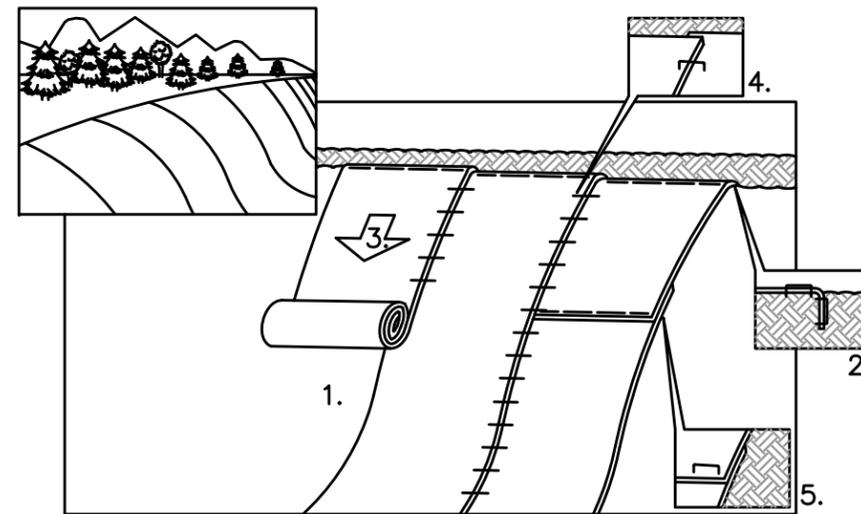
CROSS SECTION

NOTES:

EXTEND THE STONE A MINIMUM OF 18 INCHES BEYOND THE BANKS OF THE RAIN GARDEN TO PREVENT CUTTING AROUND THE ENDS OF THE FILTER BERM.

STONE FILTER BERM

N.T.S.

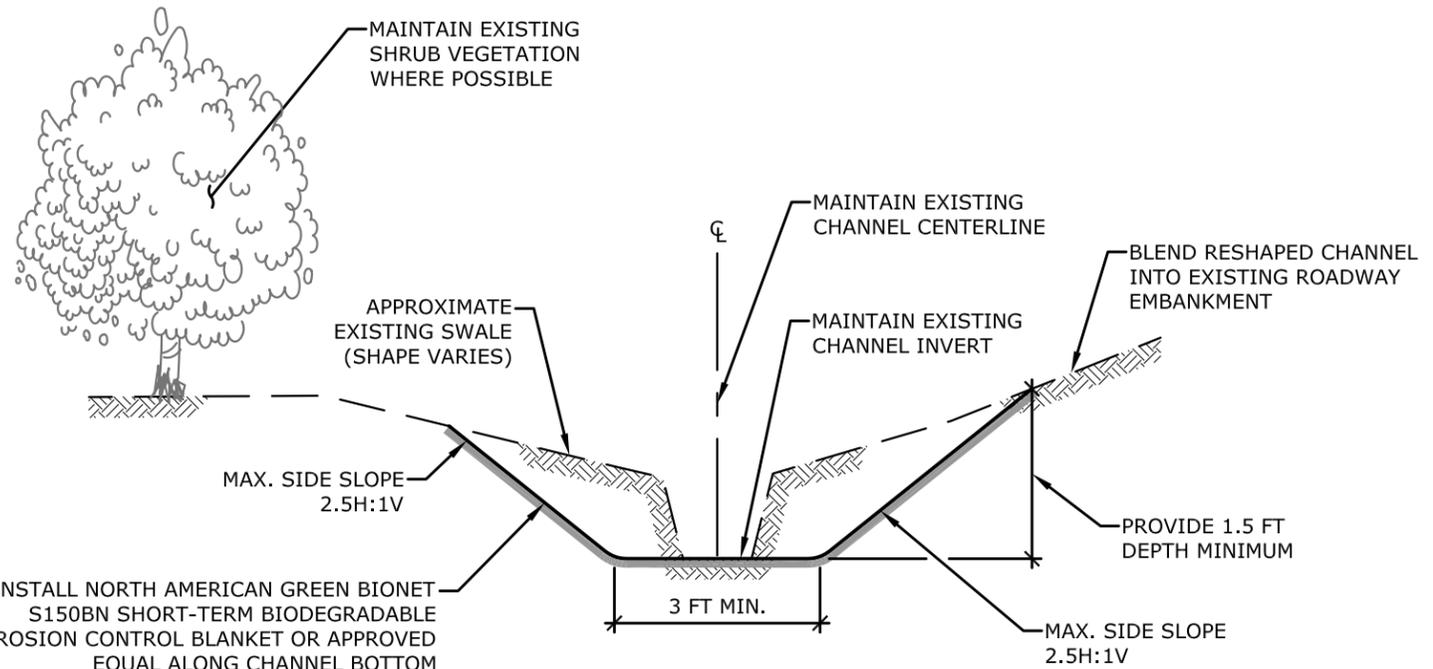


NOTES:

1. USE BIONET SHORT TERM BIODEGRADABLE EROSION CONTROL BLANKETS ITEM NUMBER S150BN, AS MANUFACTURED BY NORTH AMERICAN GREEN, 5401 ST. WENDEL-CYNTHIANA ROAD, POSEYVILLE, IN 47633.
2. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF AMENDED SOIL AND SEED.
3. BEGIN AT TOP OF SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT BEFORE STAPLING.
4. ROLL BLANKETS DOWN SLOPE IN DIRECTION OF WATER FLOW.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
6. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12' APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE IN "NORTH AMERICAN GREEN" CATALOGUE OR WEBSITE FOR CORRECT STAPLE PATTERN.

EROSION CONTROL BLANKET

N.T.S.



INSTALL NORTH AMERICAN GREEN BIONET S150BN SHORT-TERM BIODEGRADABLE EROSION CONTROL BLANKET OR APPROVED EQUAL ALONG CHANNEL BOTTOM

RESHAPED BIO-SWALE

N.T.S.

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REVISIONS

FINAL DESIGN

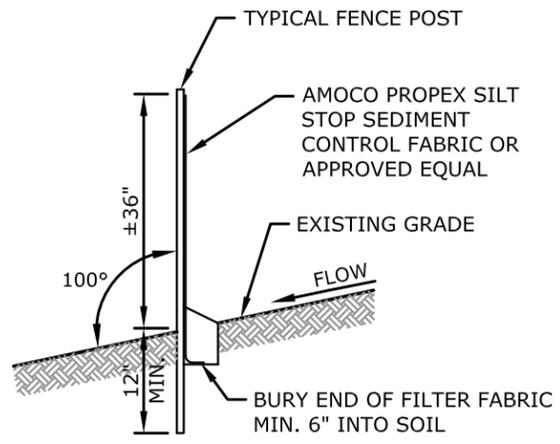
SITE DETAILS
 SILVER STREET RAIN GARDEN
 SILVER STREET
 HINESBURG, VERMONT

BMC DESIGNED	BMC DRAWN	RKS CHECKED
SCALE AS SHOWN		
DATE JUNE 3, 2014		
PROJECT NO. 3452-19-1		
SD2		

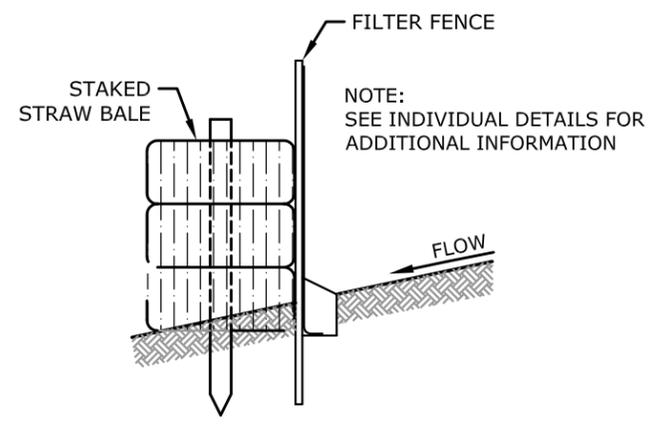
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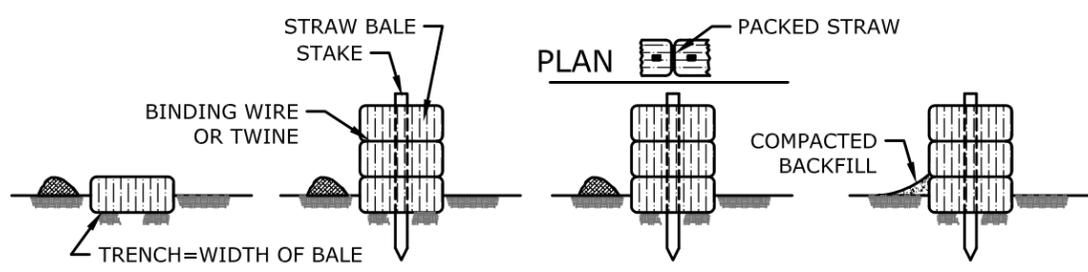
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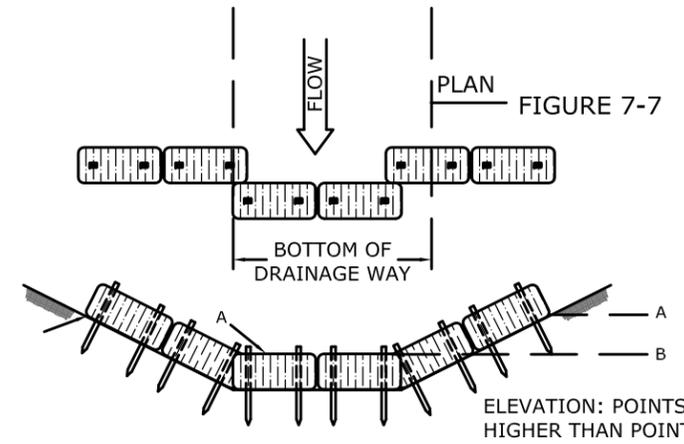
SEDIMENT FILTER FENCE (GSF)
NOT TO SCALE



SEDIMENT FILTER FENCE & STRAW BALE (GSF SB)
NOT TO SCALE



- 1.) EXCAVATE A TRENCH 4" DEEP AND THE WIDTH OF A STRAW BALE.
- 2.) PLACE AND STAKE STRAW BALES, TWO STAKES PER BALE.
- 3.) WEDGE LOOSE STRAW BETWEEN BALES TO CREATE A CONTINUOUS BARRIER.
- 4.) BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.



PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER

PLACEMENT & CONSTRUCTION OF A STRAW BALE BARRIER (SB)
NOT TO SCALE

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REVISIONS

SEDIMENT & EROSION CONTROL DETAILS
SILVER STREET RAIN GARDEN
SILVER STREET
HINESBURG, VERMONT

FINAL DESIGN

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SD3		

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