

LEGEND:

- APPARENT PROPERTY LINE
- - - - - EDGE OF PAVEMENT
- - - - - EDGE OF GRAVEL
⊙ IRON PIPE FOUND (DIA. , HT.)
Ⓢ T-BAR FOUND
Ⓢ UTILITY POLE
- - - - - EXISTING 1-FOOT CONTOUR
- - - - - EXISTING 5-FOOT CONTOUR
Ⓢ SEWER MANHOLE
Ⓢ CATCHBASIN
Ⓢ FIRE HYDRANT

CONSTRUCT LAID-UP STONE HEADWALL
AT CULVERT INLET AND STABILIZE INLET
AREA WITH TYPE II STONE

REPLACE EXISTING CATCH BASIN GRATE
WITH CASCADE (DIRECTIONAL) GRATE
LEBARON L24SG14, OR EQUAL

15" HDPE
INV. OUT = 511.6'

EXISTING CATCHBASIN
RIM = 515.96'

3
C2
INSTALL 12' LONG
LEVEL SPREADER

4
C2
CREATE TYPE I SWALE AND
BERM TO DIRECT RUNOFF TO
LEVEL SPREADER

INSTALL 6' W x 36' L BIORETENTION
AREA w/ UNDERDRAIN AND
OUTLET RISER

8
C2

24" CMP
INV IN = 497.8'
INV OUT = 495.5'

7
C2
INSTALL COIR LOG SLOPE STABILIZATION
ALONG DISTURBED SLOPES BOTH SIDES OF
STREAM (TYP) - SEE DETAIL

1
C2
RAISE STREAM BED WITH NATURALIZED
BOTTOM, PROTECT SIDES FROM SCOUR WITH
BOULDERS, REGRADE SIDE SLOPES AND
STABILIZE WITH VEGETATION - SEE DETAIL

APPROX. LOCATION OF EXISTING ABANDONED
SEWERLINE. DO NOT OBSTRUCT FLOW.
PROTECT WITH 3/4" CRUSHED STONE BLANKET
WITHIN 12" OF PIPE WHERE WORK IS
REQUIRED.

CREATE STILLING POOL
AT CULVERT INLET

DEEPEN GRASS SWALE. TIE
DAMS OPTIONAL THIS REACH

REMOVE LARGE
WHITE PINE

INSTALL 15" x 54" HDPE CULVERT
INV IN = 479.5'; INV OUT = 479.0'

RECONFIGURE CHANNEL TO DAYLIGHT
NEW CULVERT. PROTECT WITH N.A.
GREEN SC250 EROSION BLANKET. SEE
SEE STABILIZATION NOTE 1.

INSTALL NEW 24" HDPE CULVERT
WITH LAID-UP STONE HEADWALL
INV IN = 474.0', INV OUT = 473.5'
(REMOVE EXISTING CULVERT)

15" CMP
INV IN = 476.2'
INV OUT = 474.9'

INSTALL STONE ENERGY DISSIPATOR
AT CULVERT OUTFALL

6
C2

GENERAL NOTES:

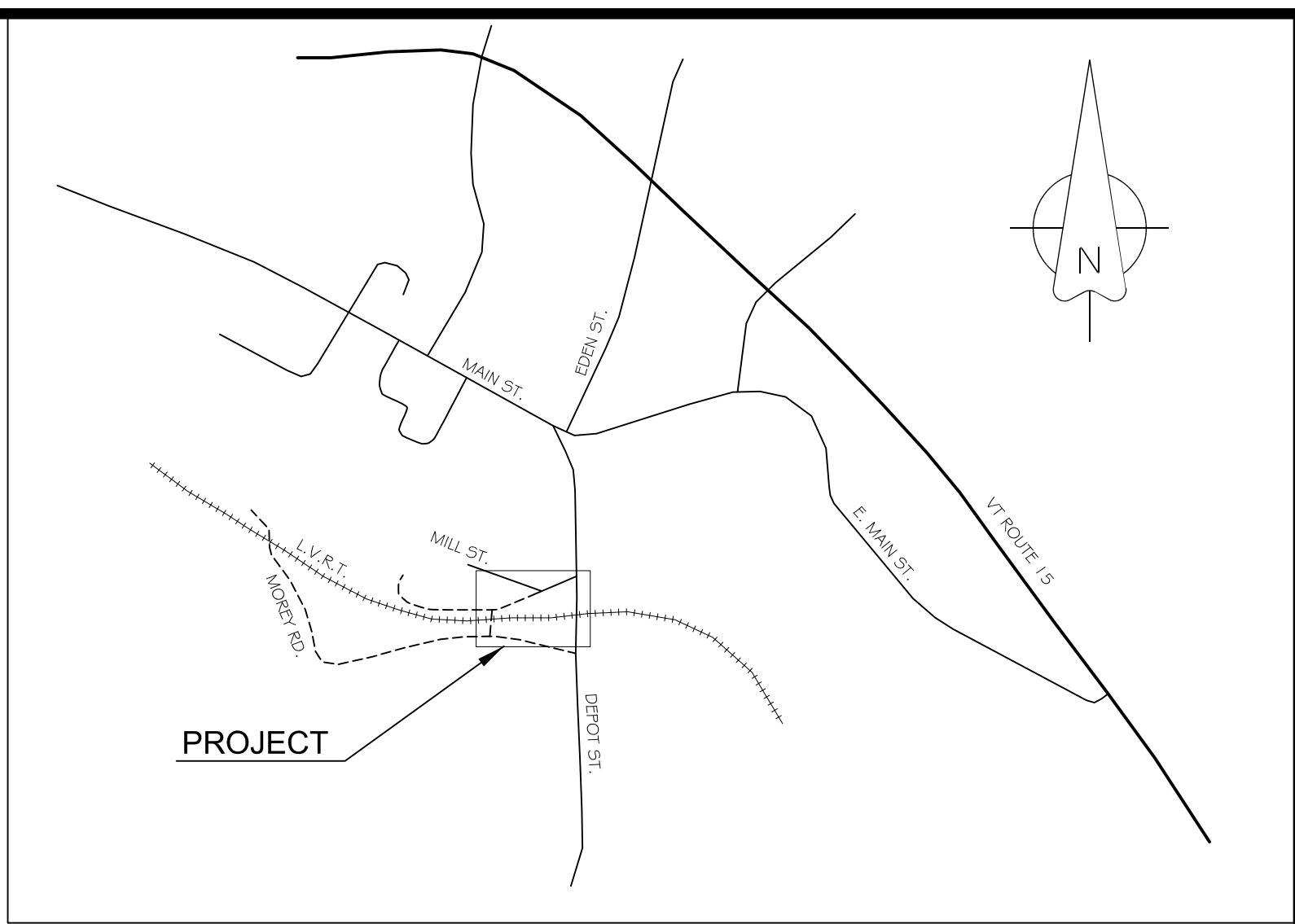
1. THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY LINE INFORMATION SHOWN HEREON
IS BASED SOLELY UPON FIELD OBSERVATION OF EXISTING MONUMENTATION. NO RECORDS
RESEARCH HAS BEEN CONDUCTED AND NO CERTIFICATION IS MADE TO ANY BOUNDARY
INFORMATION SHOWN HEREON.

2. THE VERTICAL DATUM IS ASSUMED LOCAL.

STABILIZATION NOTES

1. ALL SWALE FLOW LINES DENOTED BY CROSS HATCHING SHALL HAVE N.A. GREEN
SC250 EROSION BLANKET INSTALLED PER MANUFACTURERS CHANNEL INSTALLATION
SPECIFICATION.

2. ALL DISTURBED AREAS IN EXCESS OF 2:1 FINAL GRADE SLOPE THAT ARE NOT
OTHERWISE NOTED FOR ALTERNATE STABILIZATION METHODS SHALL BE STABILIZED
WITH N.A. GREEN S150BN EROSION PREVENTION BLANKET UTILIZING THE
MANUFACTURERS SLOPE INSTALLATION SPECIFICATIONS.



LOCUS MAP
NOT TO SCALE

15" CMP
INV IN = 476.2'
INV OUT = 474.9'

9
C2
CREATE TYPE II SWALE AND BERM
TO DIRECT RUNOFF TO STEP
POOLS. LINE SWALE WITH N.A.
GREEN SC250 EROSION BLANKET

10
C2
INSTALL FOUR (4) STEP POOLS. 4'
WIDE x 12' LONG BOTTOM, 2' DEEP
TO SPILLWAY. SEE DETAIL

PLACE N.A. GREEN SC250 EROSION BLANKET ON
SPILLWAY INFLOW AND OUTFLOW SURFACES
INCLUDING THE OUTFLOW APRON AS SHOWN.

PLACE N.A. GREEN S150BN BLANKET ON
BALANCE OF DISTURBED INTERIOR AND
EXTERIOR SURFACES OF POOLS. SEE
STABILIZATION NOTE 2.

DROUGHT TOLERANT SHRUBS. SPECIES
AND PLANTING SCHEDULE BY OWNER

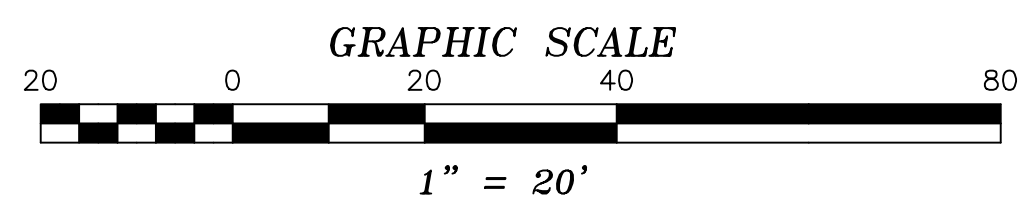
REVISED: 6/23/16 - STABILIZATION NOTES ADDED

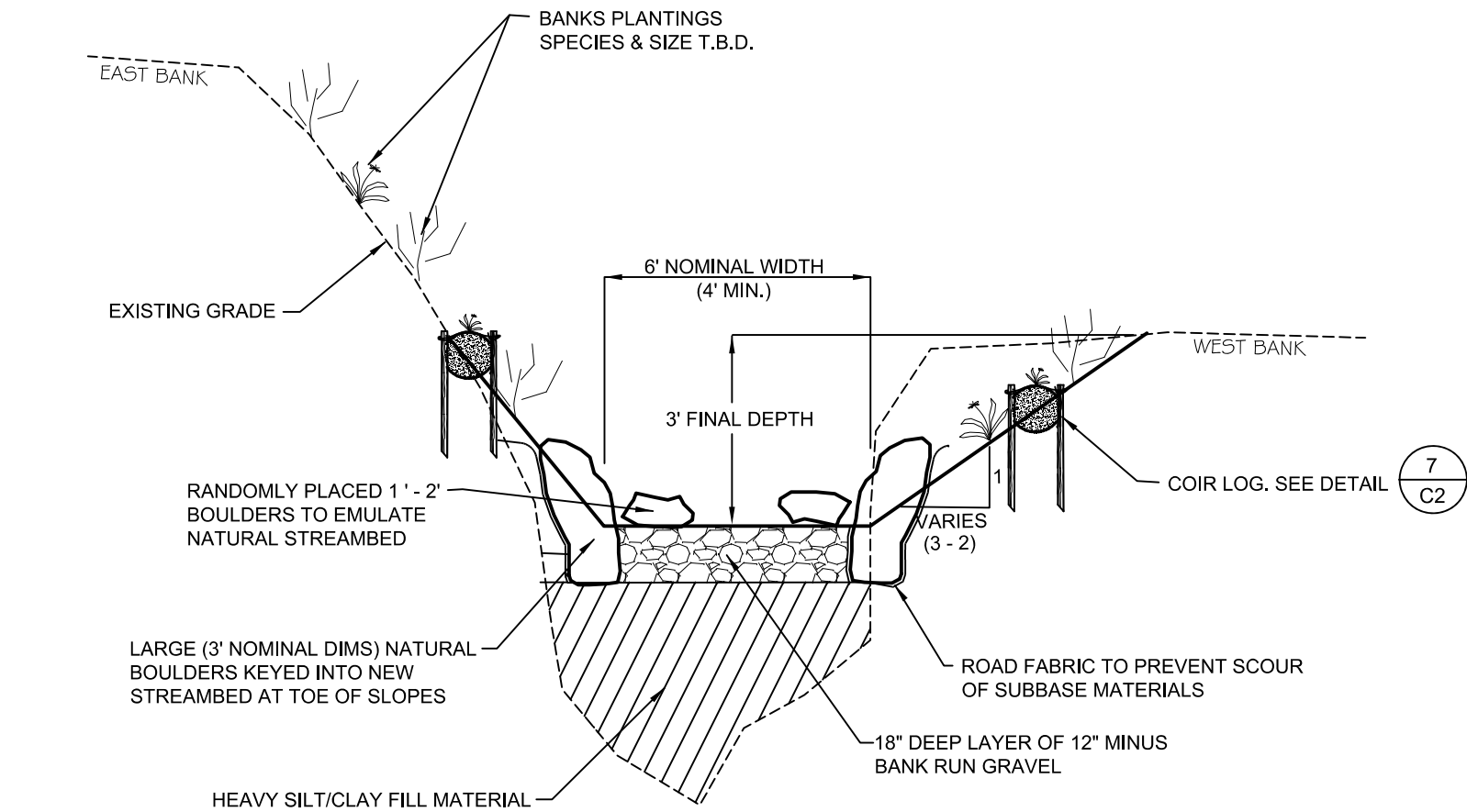
2016 CONSTRUCTION SITE PLAN
TOWN OF HYDE PARK
DEPOT ST., DEPOT ST. EXT. & MOREY RD.
HYDE PARK, VERMONT

SCALE: 1" = 20' DATE: 6/6/16 PROJ.# 2014-096 DWG.# 14-096C
DRAWN BY: KKKJ CHECKED BY: AT FB/PG. EFB SHEET C1

WATERSHED
CONSULTING ASSOCIATES, LLC

PO BOX 4413, BURLINGTON, VT (802) 497-2367

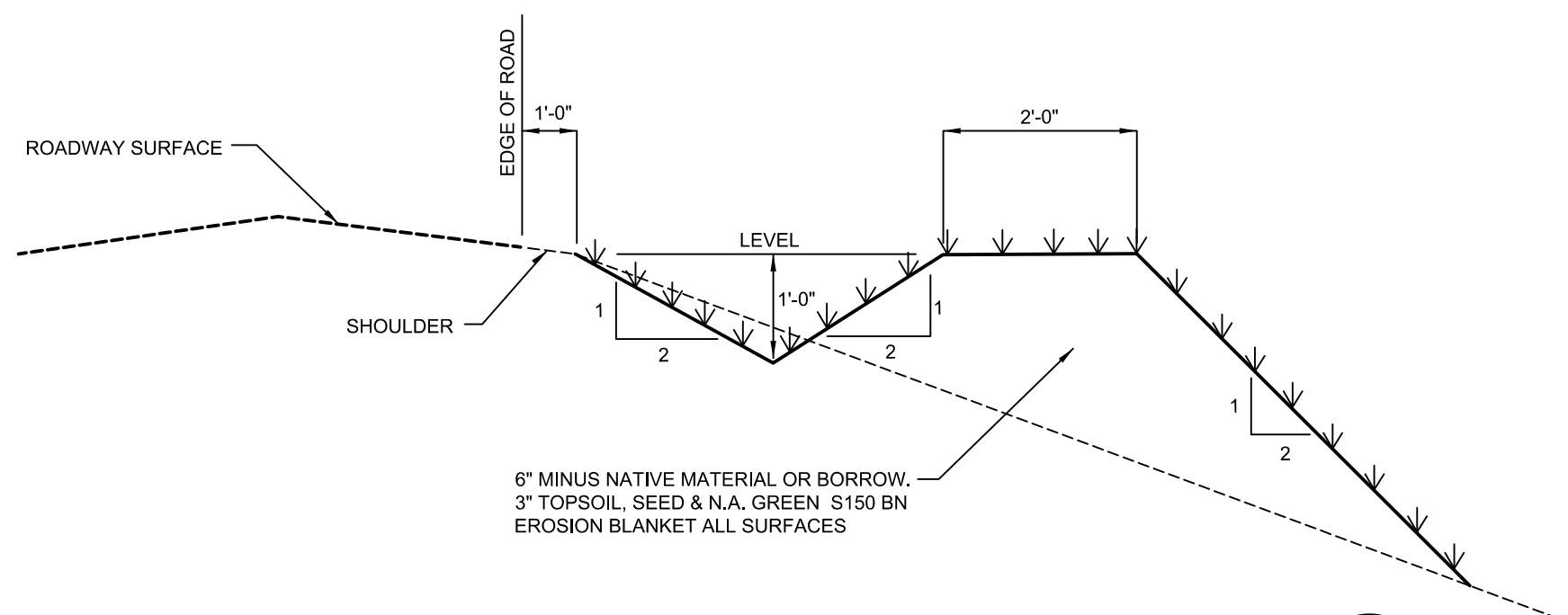




TYPICAL SECTION - STREAM RESTORATION

NOT TO SCALE

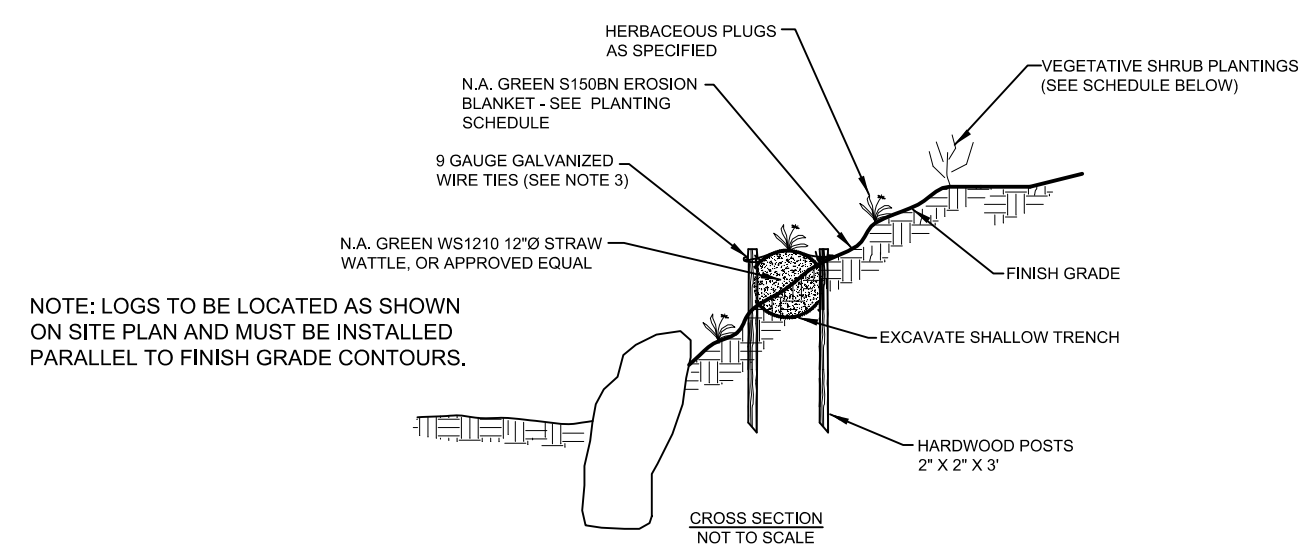
1
C2



TYPICAL SECTION - TYPE I SWALE & BERM

NOT TO SCALE

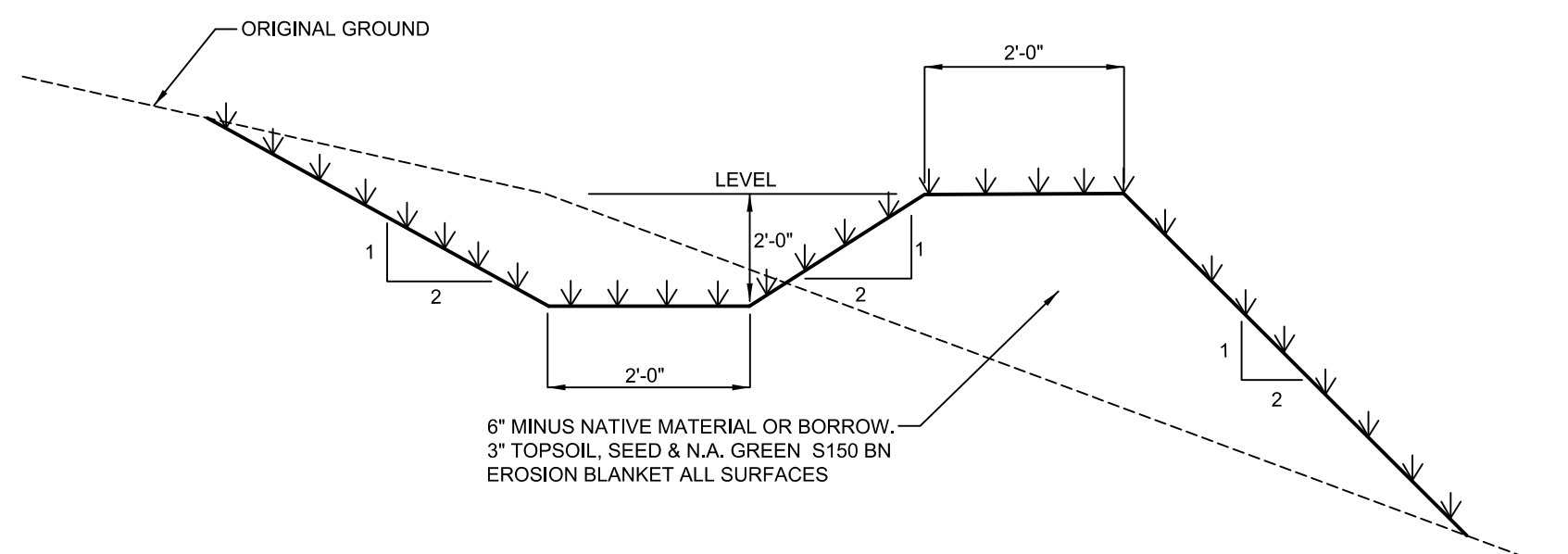
4
C2



DETAIL - COIR LOG BANK STABILIZATION

NOT TO SCALE

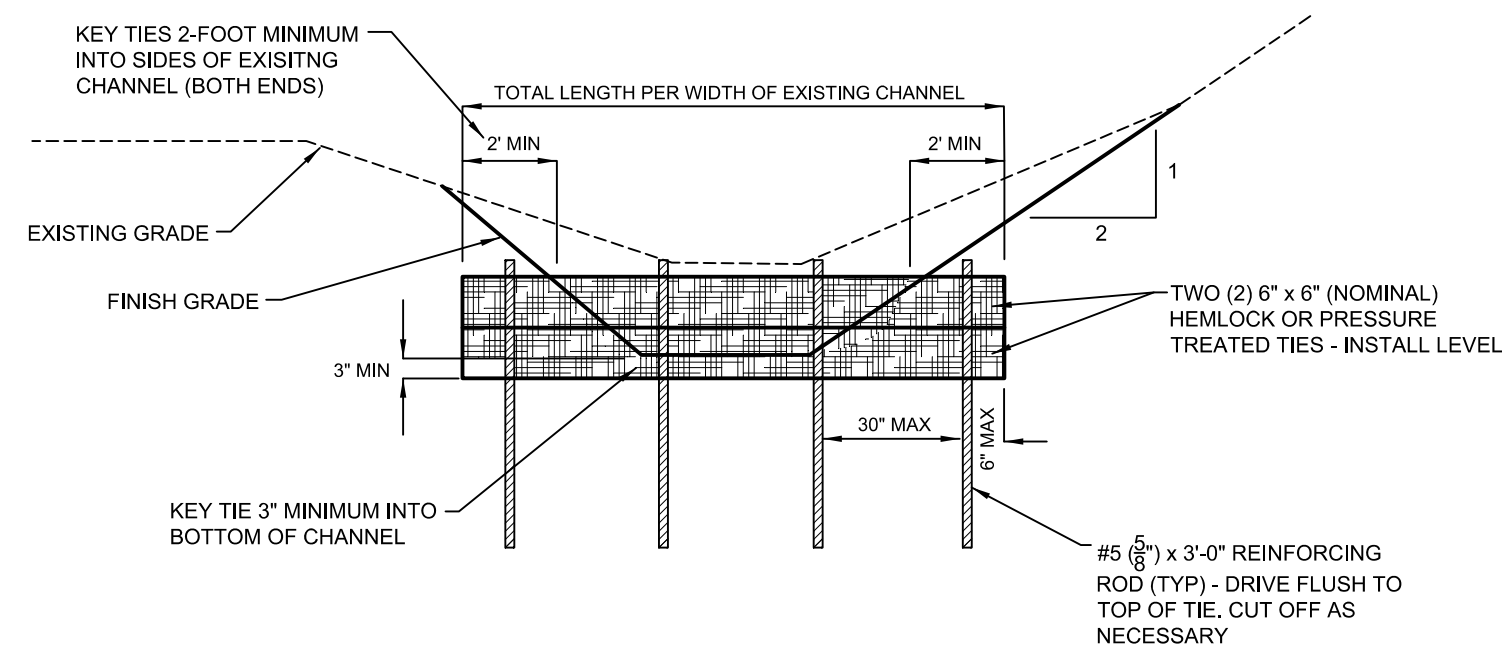
7
C2



TYPICAL SECTION - TYPE II SWALE & BERM

NOT TO SCALE

9
C2



TYPICAL SECTION - TIE DAM

NOT TO SCALE

2
C2

STONE FILL: STONE FILL SHALL BE APPROVED, HARD, BLASTED ANGULAR ROCK, THE LEAST DIMENSION OF THE STONE SHALL BE NO LESS THAN 1/3 OF THE LONGEST DIMENSION. THE STONE SHALL BE REASONABLY WELL GRADED SO AS TO FORM A COMPACT MASS WHEN IN PLACE.

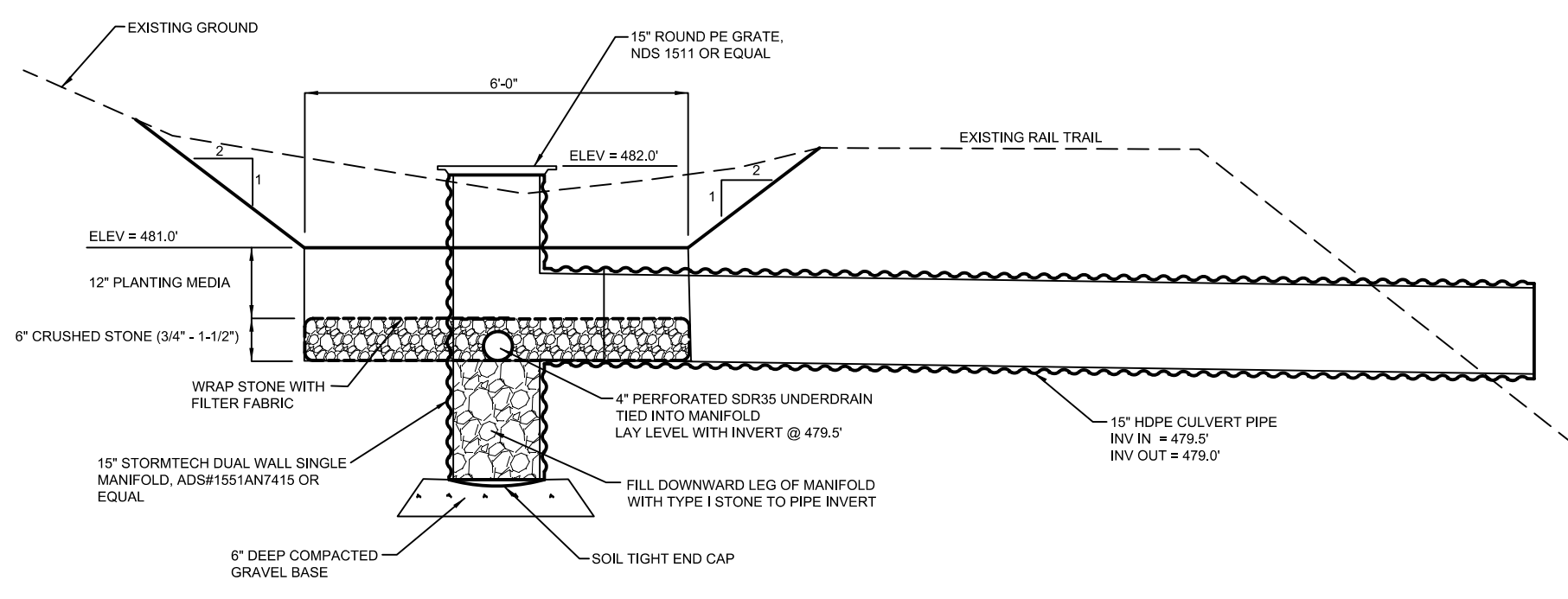
(a) TYPE I: THE LONGEST DIMENSION SHALL VARY FROM 1-INCH TO 12-INCHES, AND AT LEAST 50% OF THE VOLUME SHALL HAVE A LEAST DIMENSION OF 4-INCHES.

(b) TYPE II: THE LONGEST DIMENSION SHALL VARY FROM 2-INCHES TO 36-INCHES, AND AT LEAST 50% OF THE VOLUME SHALL HAVE A LEAST DIMENSION OF 12-INCHES.

DETAIL - STONE DEFINITION

NOT TO SCALE

5
C3

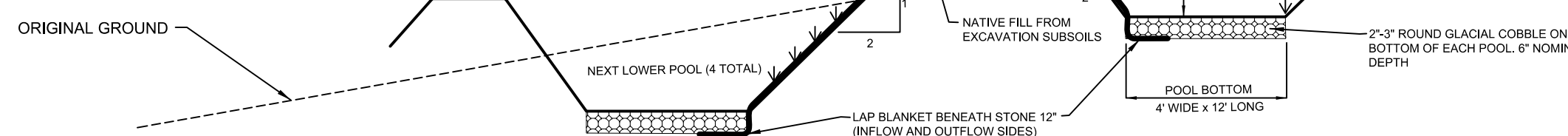


DETAIL - BIORETENTION AREA SECTION & SPECIFICATIONS

NOT TO SCALE

8
C2

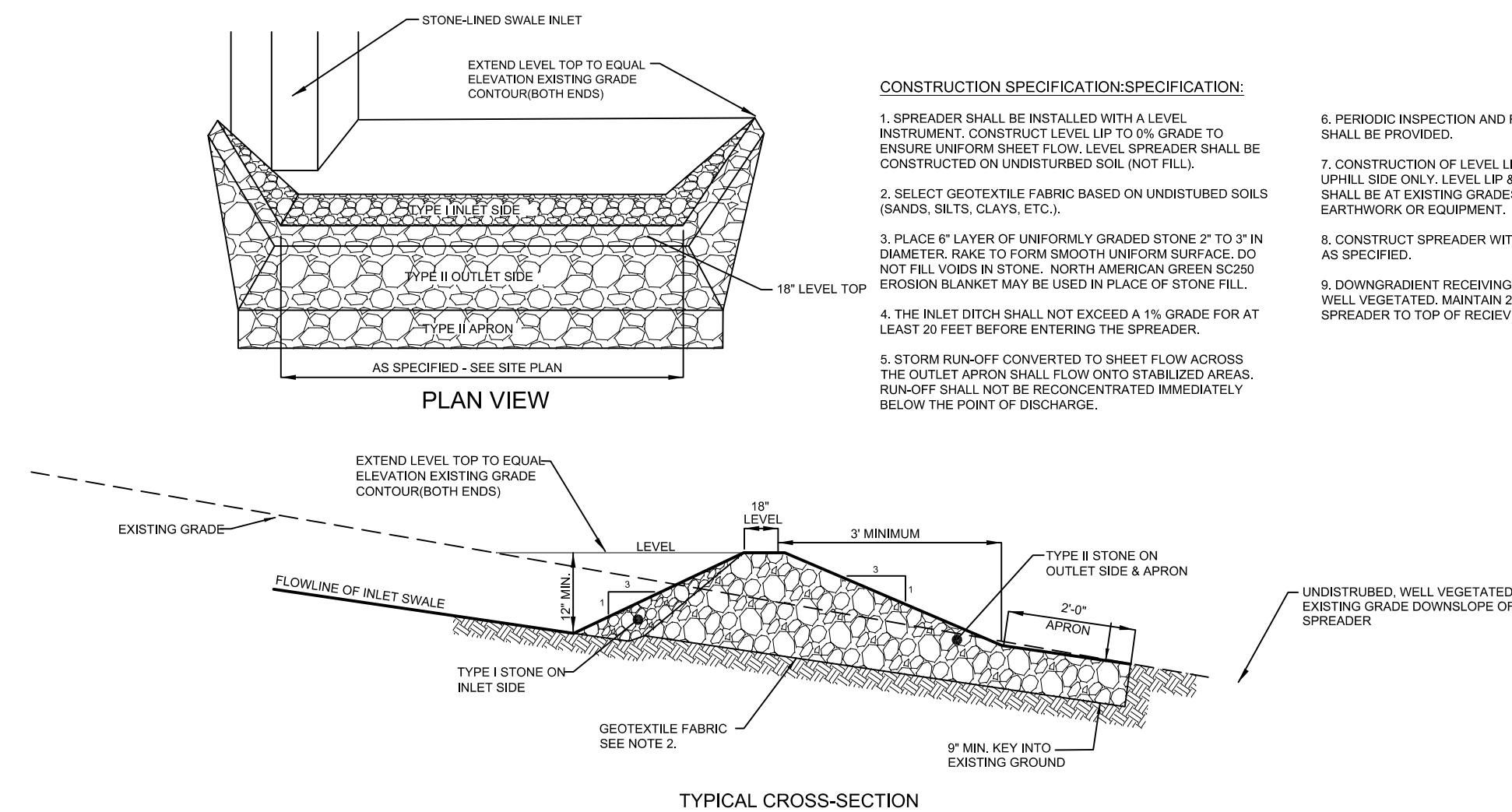
- NOTES:
1. TOPSOIL SHALL BE STRIPPED OVER ENTIRE AREA OF GRADING. REPLACE TO FINISH GRADES TO A MINIMUM DEPTH OF 4\".
 2. COMPACT BERM MATERIALS TO 90% MODIFIED PROCTOR.
 3. SEED ALL DISTURBED SURFACES WITH VERMONT WETLAND PLANT SUPPLY CONSERVATION AND WILDLIFE MIX AT AN APPLICATION RATE OF #25 PER ACRE (#11 1600 sf)
 4. COVER INTERIOR AND EXTERIOR DISTURBED SURFACES NOT IN THE DIRECT FLOWPATH WITH N.A. GREEN S150 EROSION BLANKET.



TYPICAL SECTION - STEP POOL

NOT TO SCALE

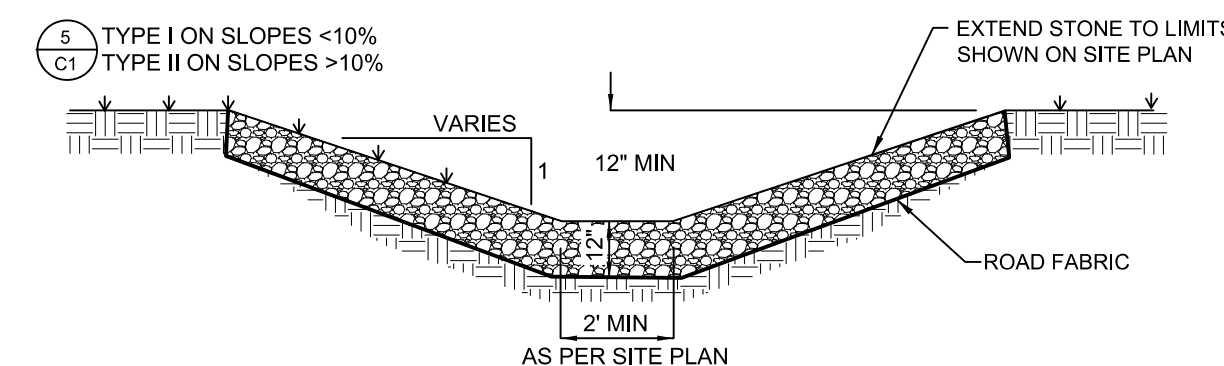
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C2



DETAIL - LEVEL SPREADER

NOT TO SCALE

3
C2



DETAIL - STONE-LINED SWALE/DISSIPATOR

NOT TO SCALE

6
C2

Bioretention Planting Specification

Planting soil to be uniform mix, free of stones, stumps, roots, and noxious weeds.

Planting soil is to meet the following criteria:

- pH range 5.2 - 7.0
- organic matter 1.5 - 4%
- magnesium 35 lbs./ac min.
- phosphorus 75 lbs./ac min.
- potassium 55 lbs./ac min.
- soluble salts 500 ppm
- clay 10-25%
- silt 30-55%
- sand 35-60%

Mulch shall be standard landscape style, single or double, shredded hardwood mulch or chips. Mulch shall be aged for at least 12 months, be uniform in color, and free of other materials such as weeds or roots. Mulch shall be installed to a depth of 3\".

When backfilling the bioretention facility, soil shall be placed in lifts of 12\" or greater. Do not use heavy equipment in the bioretention basin. Do not compact planting soil.

Mulch around individual plants only. The plant root ball should be planted so 1/8th of the ball is above final grade surface. Root stock of the plant material should be kept moist during transport and on-site storage. The diameter of the planting pit should be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the planting process. Thoroughly water ground bed cover after installation.

The bioretention facility may not be constructed until all contributing drainage area has been stabilized.

Plant species shall be planted in a random and natural pattern. Acceptable plantings that may be utilized in the bioretention area are as follows. All species listed do not need to be planted in the bioretention area. Alternate species may be utilized subject to engineer and owner approval.

- Hamamelis virginiana (Witch Hazel)
- Ilex verticillata (Winterberry)
- Viburnum dentatum (Arrowwood)
- Alnus serrulata (Brook-side Alder)
- Cornus stolonifera (Redosier Dogwood)
- Iris versicolor (Blue Flag)
- Lobelia cardinalis (Cardinal Flower)
- Rudbeckia laciniata (Cultivated Coneflower)
- Scirpus cyperinus (Woolgrass)
- Scirpus pungens (Three Square Bulrush)