

TOWNSHIP OF EDWARDSBURGH/CARDINAL

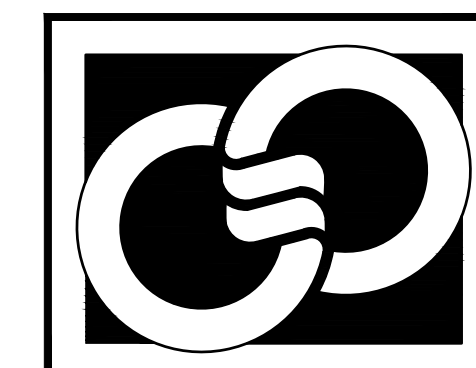
SPENCERVILLE DRAINAGE - PRELIMINARY

21-5-5245

LIST OF DRAWINGS

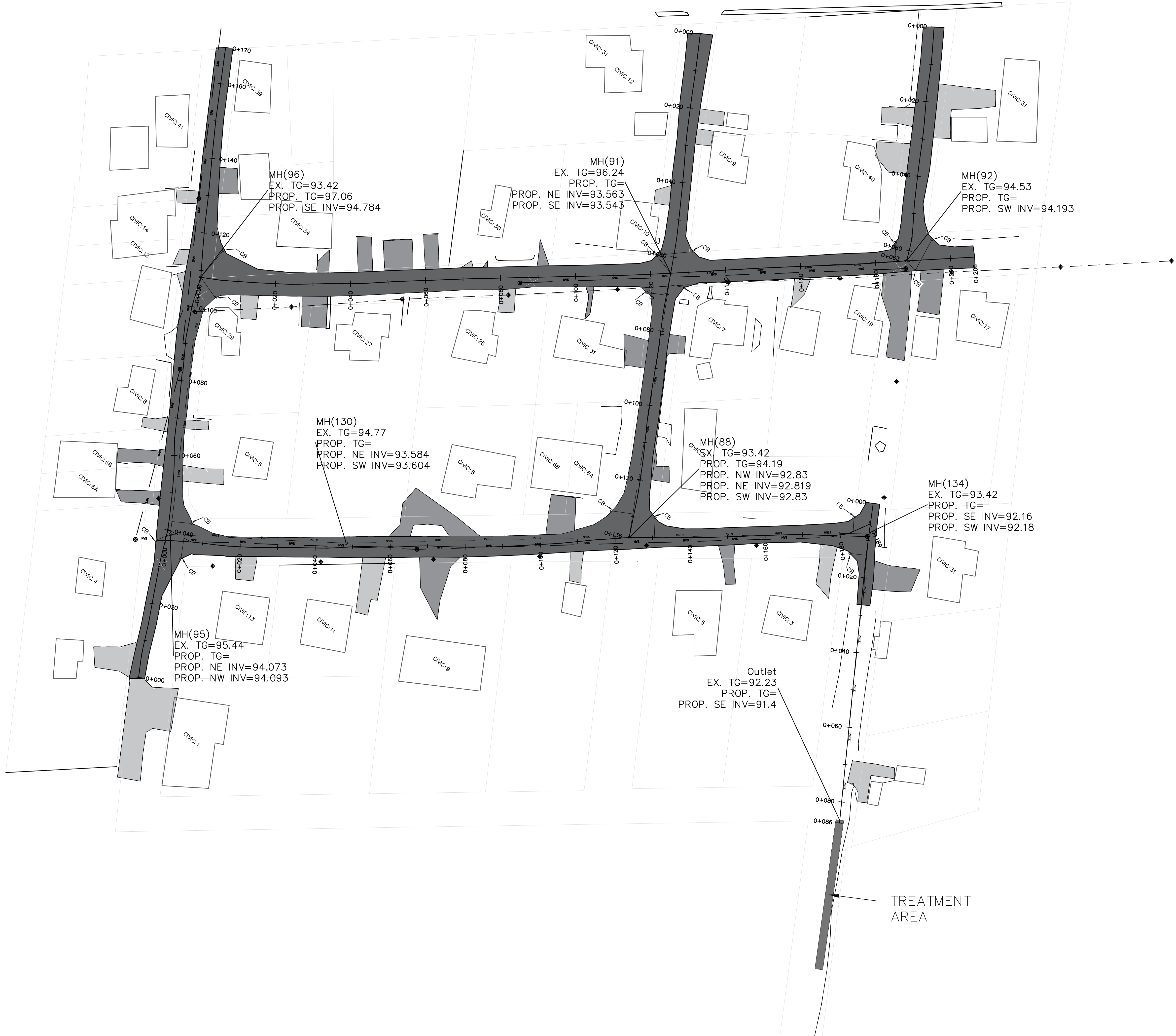
C-0 COVER
C-1-01 SITE PLAN
C-2 DETAILS

THE GREER GALLOWAY GROUP INC.
ENGINEERS PLANNERS



PETERBOROUGH
BELLEVILLE
KINGSTON

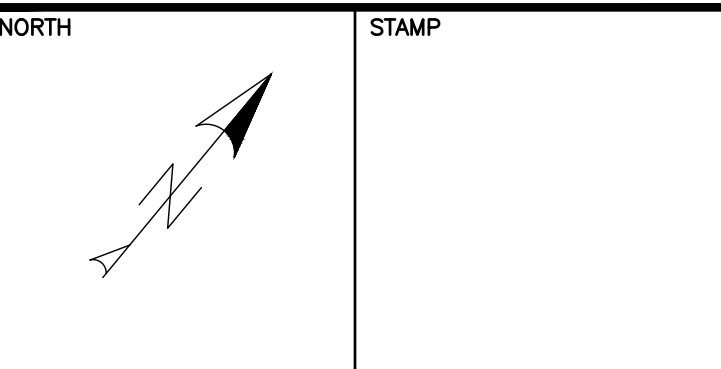
640 CATARAQUI WOODS DRIVE, UNIT 2A
KINGSTON, ONTARIO K7P 2Y5
PHONE: (613) 536-5420



- NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH RELEVANT CODES AND GUIDELINES.
 2. ALL DRAWINGS AND ADDENDA ARE TO BE READ AS, AND IN CONJUNCTION WITH THE SPECIFICATIONS.
 3. ALL EQUIPMENT SHALL BE INSTALLED AS SPECIFIED OR APPROVED EQUIVALENT.
 4. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK AND BE RESPONSIBLE FOR SAME.
 5. CONTRACTOR MUST REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION BEFORE COMMENCING THE WORK.
 6. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.

A A DETAIL NO.
B B DRAWING NO. - WHERE DETAILED

- LEGEND
- EXISTING ASPHALT
 - EXISTING ASPHALT DRIVEWAY
 - EXISTING GRAVEL DRIVEWAY
 - EXISTING CONCRETE
 - ROAD CENTERLINE
 - PROPERTY LINES
 - WALL AND HEDGE
 - FENCE AND DECK
 - DITCH ELEVATIONS
 - BUILDINGS
 - EXISTING SANITARY MANHOLE
 - PROPOSED STORM PIPE
 - EXISTING SANITARY PIPE
 - PROPOSED STORM MANHOLE
 - BORE HOLE LOCATION



PROJECT
SPENCERVILLE DRAINAGE

DRAWING TITLE

05		
04		
03		
02		
01		

REVISION

DESIGNED BY

DRAWN BY
G HOEGI

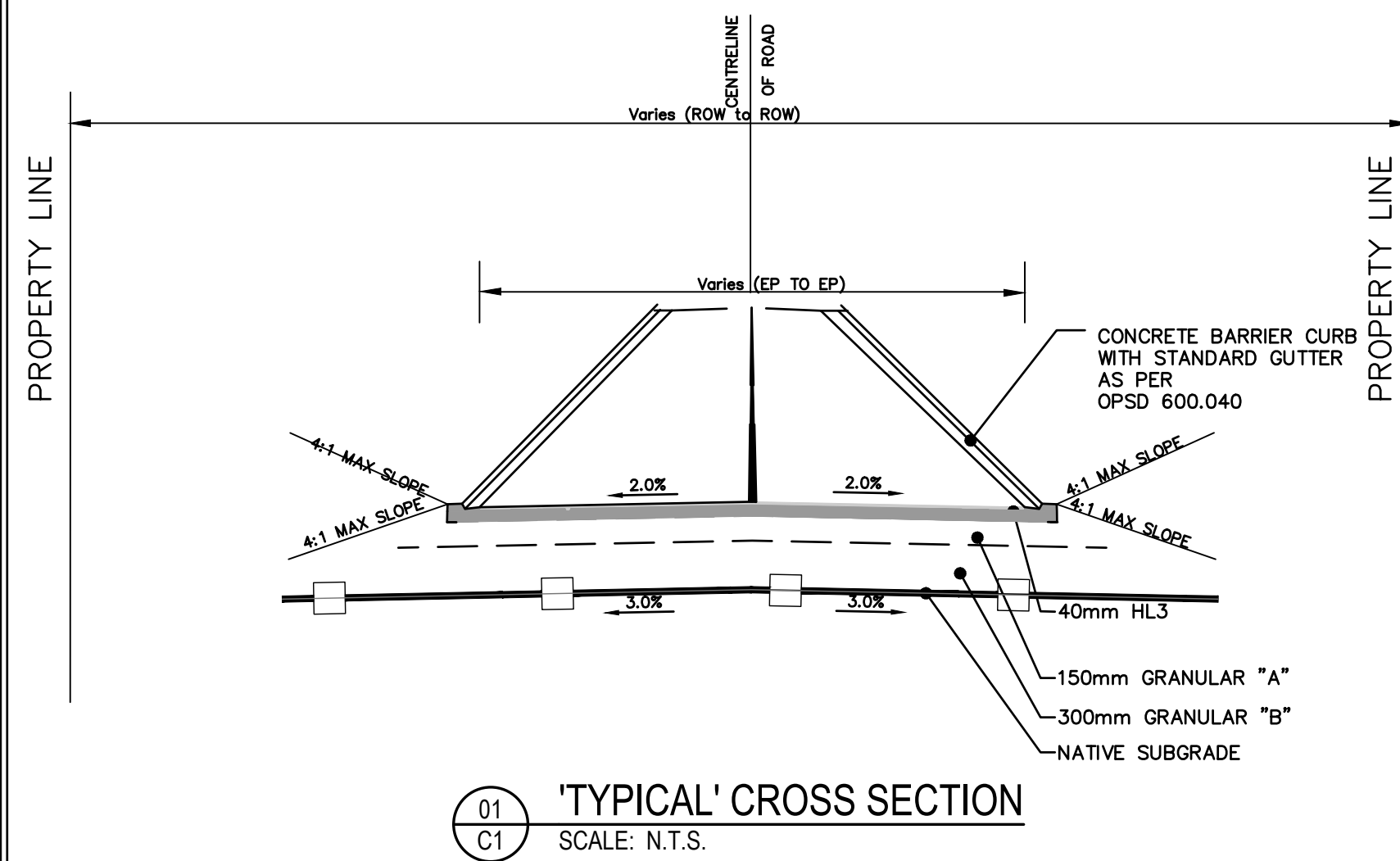
REVIEWED BY

APPROVED BY

PROJECT DATE
05/19/2021
(DD/MM/YYYY)

PROJECT #
21-5-5245
SCALE
HOR: 1:250
VER: NTS

DRAWING #
C1-00



SUGGESTED CONSTRUCTION SEQUENCING *(note to designer: edit as needed to meet project requirements)*

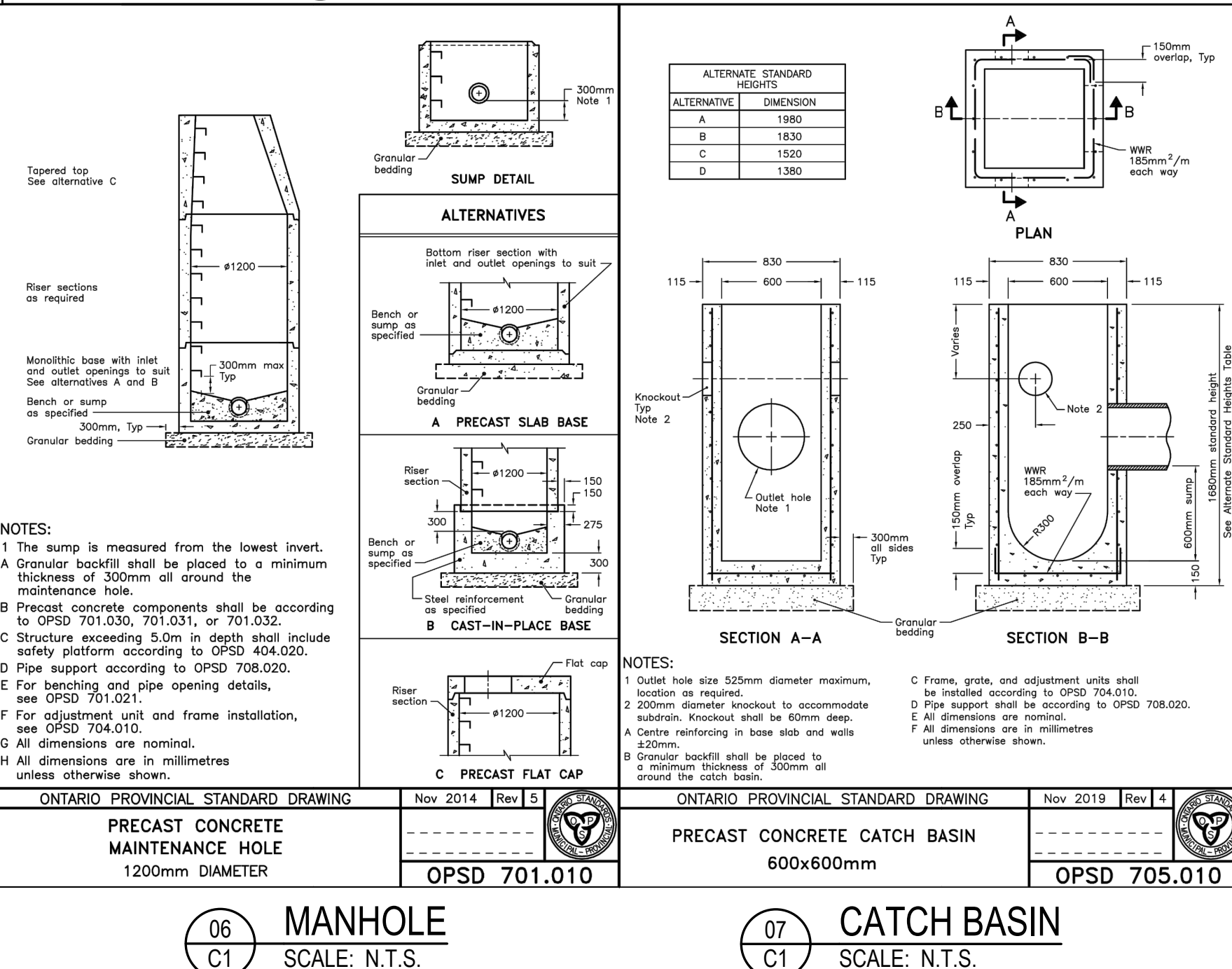
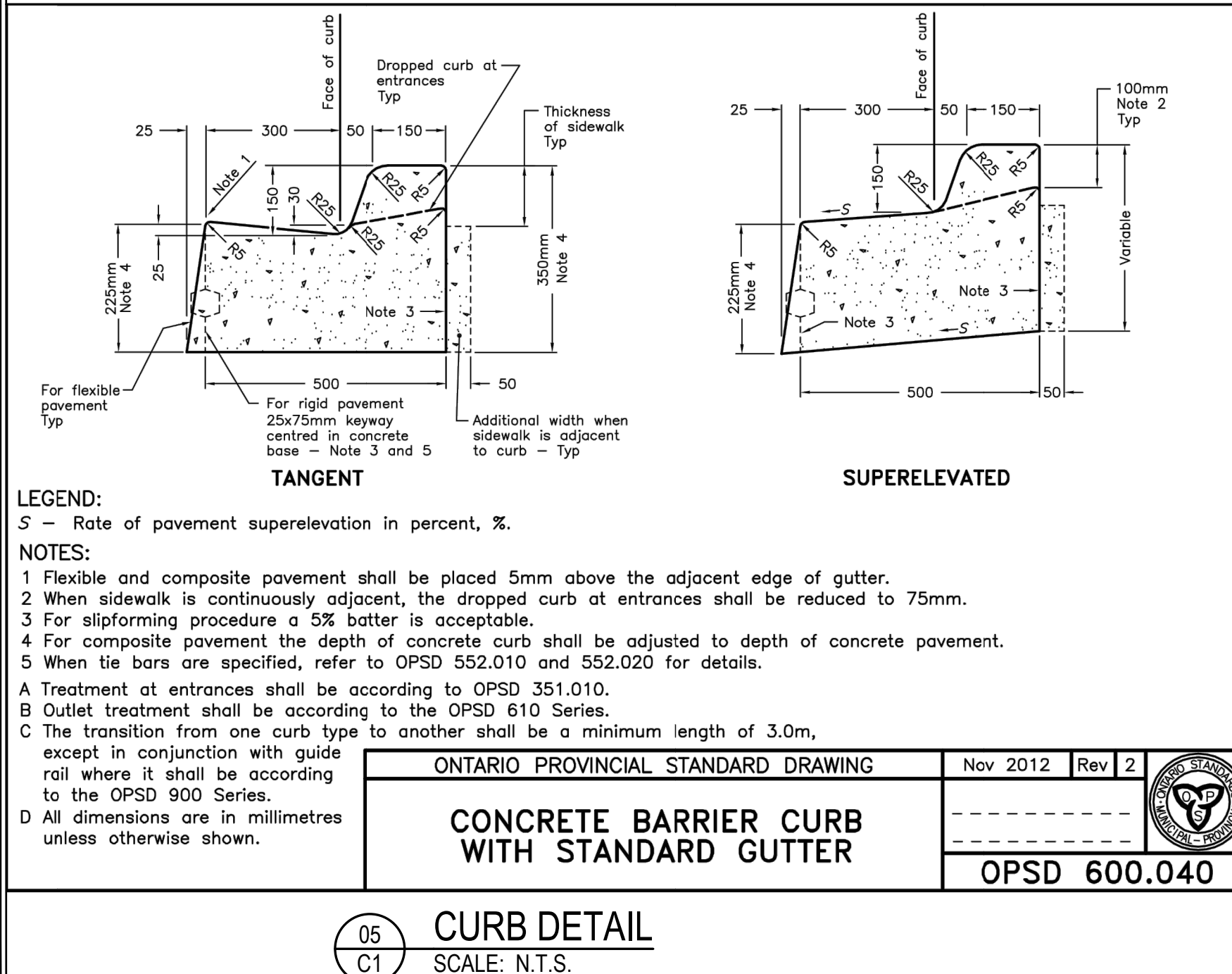
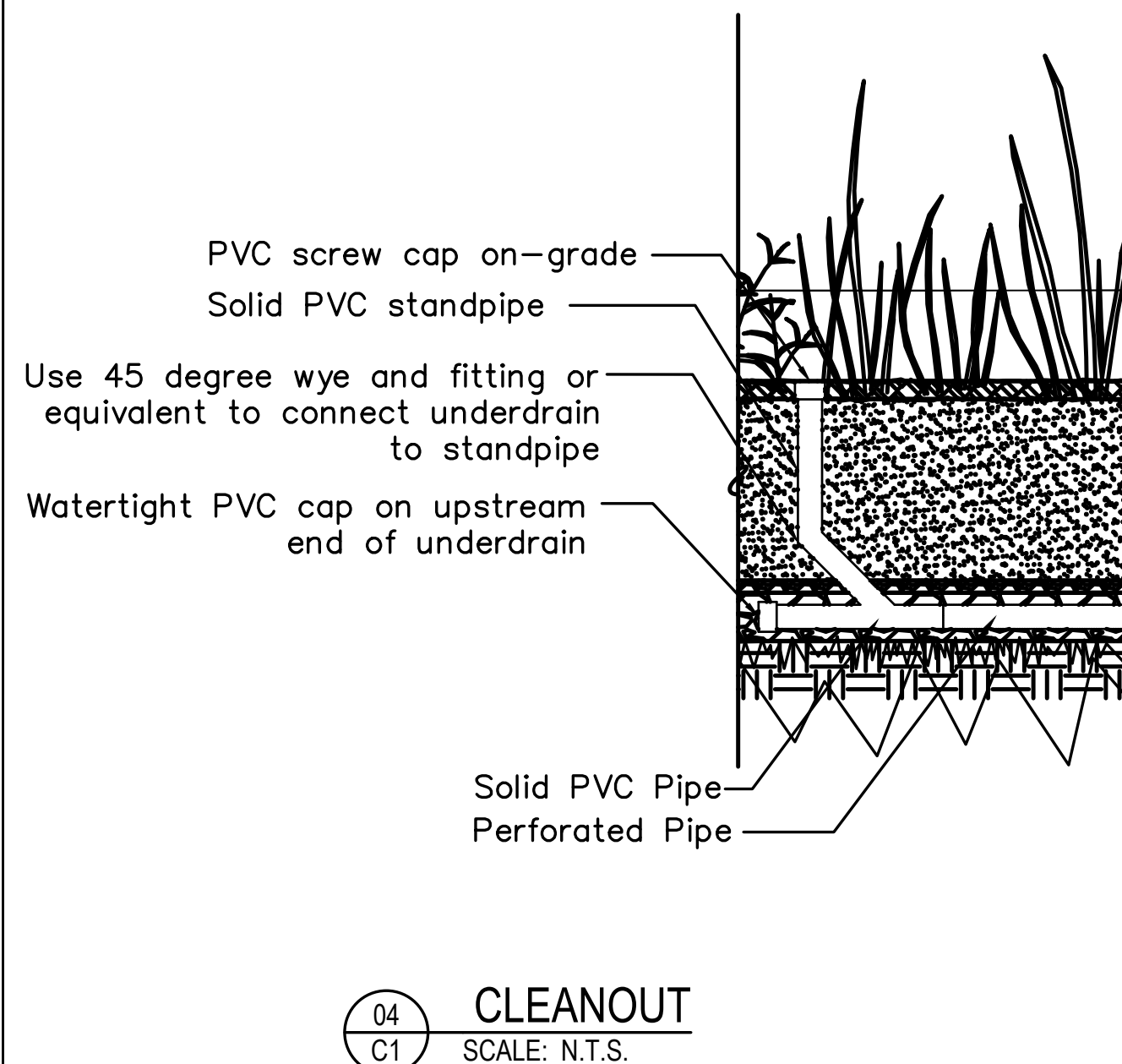
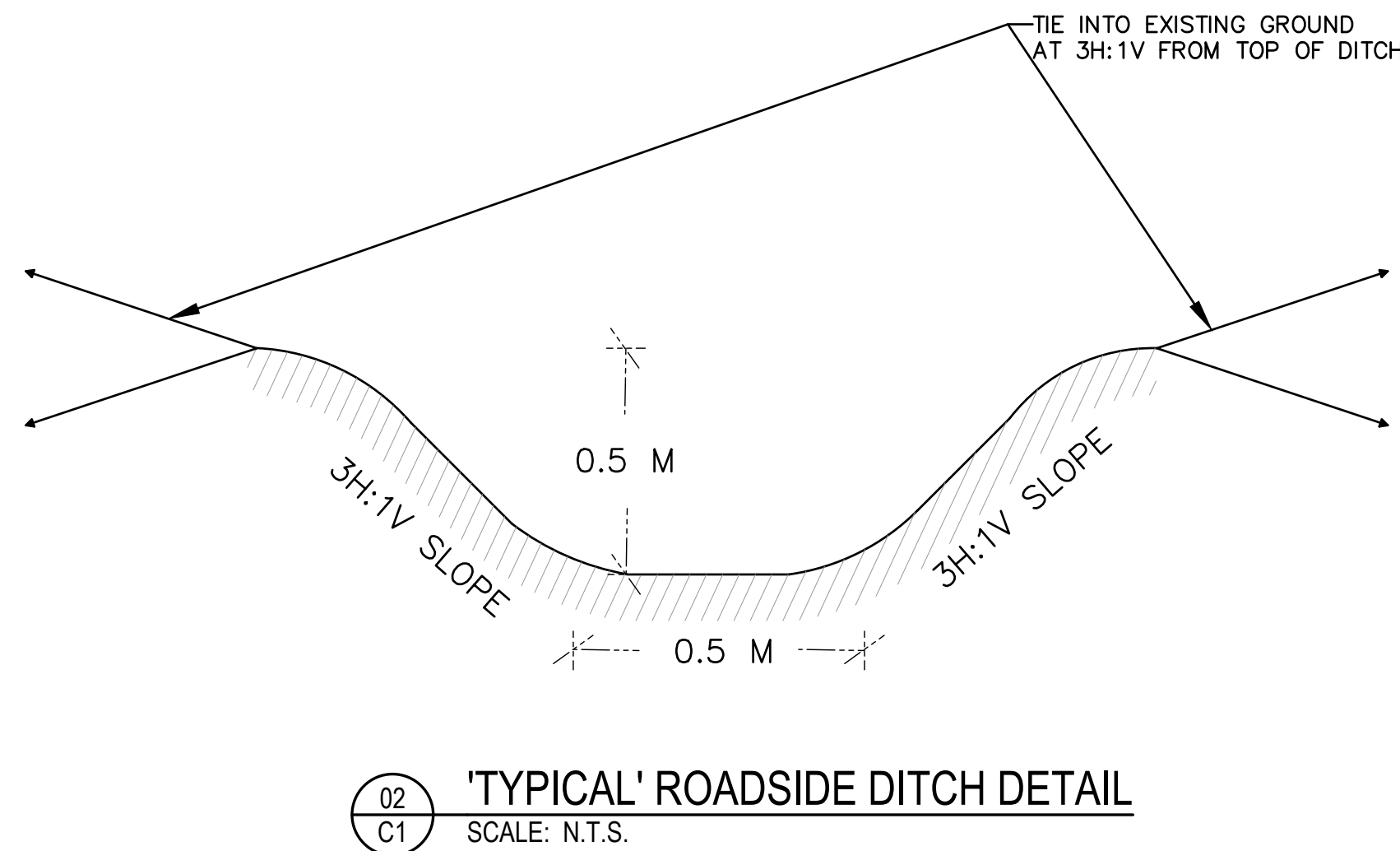
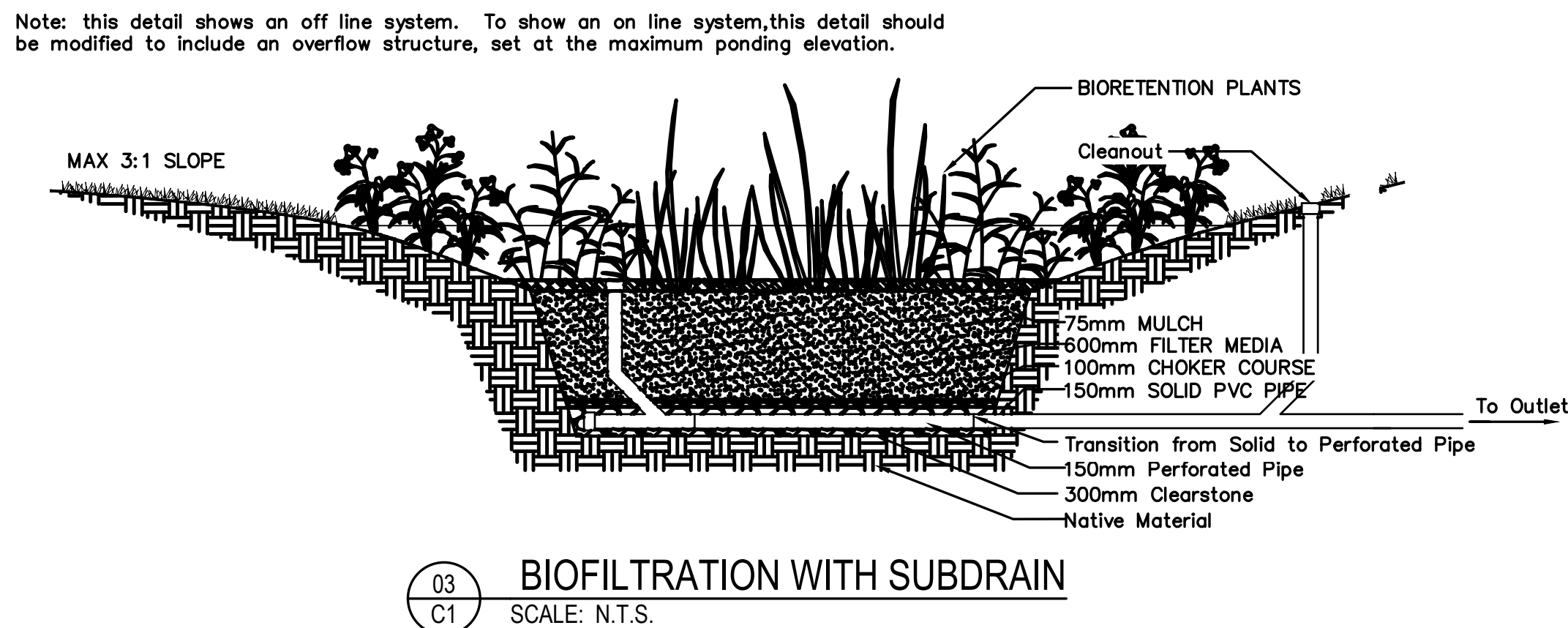
1. Install appropriate temporary erosion control devices to prevent sediment from leaving or entering the practice during construction.
2. All down-gradient perimeter sediment control bmp's must be in place before any up gradient land disturbing activity begins.
3. Perform continuous inspections of erosion control practices, especially after each rainfall event.
4. Install all utilities (water, sanitary sewer, electric, natural gas, phone, fiber optic, etc) prior to setting final grade of bioretention device.
5. Rough grade the site. If bioretention areas are being used as temporary sediment basins during construction, leave a minimum of 1 foot of cover over the practice to protect the underlying soils from clogging.
6. Complete, stabilize, and vegetate all other site improvements.
7. Construct and vegetate bioretention device following stabilization of contributing drainage area. Ensure that critical elevations, such as underdrain invert, top of media, top of mulch, and invert of overflow structure (if present) are correct.
8. Remove temporary erosion control devices after the contributing drainage area is adequately vegetated.

GENERAL NOTES (*note to designer: edit as needed to meet project requirements*)

1. In the event that sediment is introduced into the bmp during or immediately following excavation, this material shall be removed from the practice prior to continuing construction.
2. See Minnesota Stormwater Manual for subgrade preparation.

MATERIAL SPECIFICATIONS

1. See Minnesota Stormwater Manual for material specifications recommendations for bioretention soil, mulch, underdrains, etc.



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	PETERBOROUGH BELLEVILLE KINGSTON 640 CATARAQUI WOODS DRIVE #2A KINGSTON, ONTARIO, K7P 2Y5 PHONE: 613-536-5420 FAX: 613-548-3793	
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NORTH	STAMP	
PROJECT SPENCERVILLE DRAINAGE		
DRAWING TITLE DETAILS		
05		
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DESIGNED BY		
DRAWN BY G HOEGI		
REVIEWED BY		
APPROVED BY		
PROJECT DATE 5/19/2021		
PROJECT # 21-5-5245	SCALE HOR: NTS VER: NTS	
DRAWING # C2-00		

Spencerville - Preliminary Cost Estimate - May 12 2021

Item no.	Item Description	Unit	Tender	Unit Price (\$)	Tender (\$)
1	Asphalt Stripping	m2	4,431	\$2.50	\$11,077.50
2	Asphalt pulverizing	m2	4,431	\$2.20	\$9,748.20
3	Granular A (50mm)	tonne	611	\$25.00	\$15,286.95
4	Curb and Gutter	m	1,484	\$125.00	\$185,500.00
	Earth Excavation for Road	m3	515	\$25.00	\$12,875.00
5	Rock Removal For Pipe Excavation	m3	276	\$150.00	\$41,400.00
6	Miscellaneous- HL3 Asphalt (40mm)	tonne	443	\$145.00	\$64,249.50
7	Manholes	each	6	\$8,500.00	\$51,000.00
8	Catch Basins	each	11	\$6,500.00	\$71,500.00
9	Storm Sewer Pipes	m	671	\$400.00	\$268,400.00
			Sub-Total		\$719,959.65
			Contingency (%15)		\$107,993.95
			Total		\$827,953.60