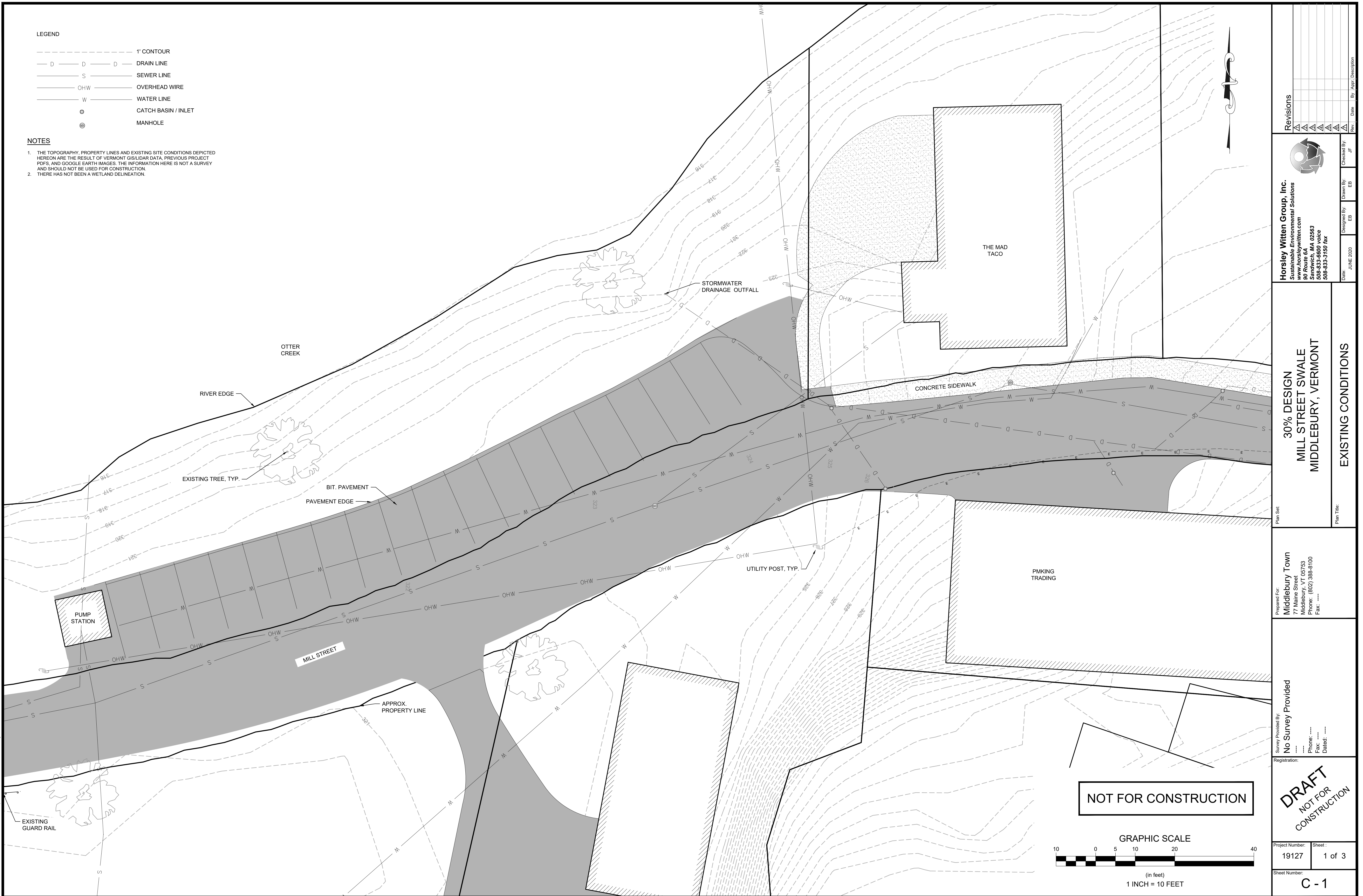


last modified: 06/16/20 printed: 06/19/20 by eb C:\Users\lebieger\1912719127_EX.dwg

[illegible]

WATER QUALITY CALCULATION NOTES:

EXISTING CONDITIONS (IN L.O.W.):
IMPERVIOUS, BITUMINOUS: 10,933 SF
PERVIOUS, LAWN: 3,867 SF

PROPOSED CONDITIONS (IN L.O.W.):
IMPERVIOUS, BITUMINOUS: 7,441 SF
IMPERVIOUS, CONCRETE / WALKWAY: 1,885 SF
PERVIOUS, LAWN OR PLANTING BED: 5,474 SF

PROPOSED CONDITIONS (IN DRAINAGE AREA):
IMPERVIOUS, BITUMINOUS: 6,339 SF
IMPERVIOUS, CONCRETE / WALKWAY: 1,639 SF
PERVIOUS, LAWN OR PLANTING BED: 5,604 SF

SCENARIO 1: WET SWALE

Water Quality Volume (WQv)	665 cf
Width of Swale Provided	3.00 ft
Length of Swale Provided	75 ft
Surface Area Provided	455 sqft
Bottom Elevation	320.25 ft
Permanent Pool Elevation	320.50 ft
Permanent Pool Depth	0.25 ft
Permanent Pool Volume	63.00 cf
Water Quality Elevation	321.00 ft
Water Quality Depth	0.50 ft
Water Quality Volume	600.00 cf
Total Volume	663.00 cf
Total Volume	0.015 ac-ft

Percentage of Treatment Provided 100%

SCENARIO 2: DRY SWALE

Water Quality Volume (WQv)	665 cf
Filter Bed Depth (df)	2.50 ft
Coefficient of permeability (K)	1 ft/day
height of water above filter	6 in
Average height of water (hf)	0.25 ft
Design Filter Drain Time (tf)	2 days
Surface Area Required	302 sqft
Width of Swale Provided	3 ft
Length of Swale Provided	75 ft
Surface Area Provided	403 sqft
WQv Provided	0.020 ac-ft

Percentage of Treatment Provided: 133%

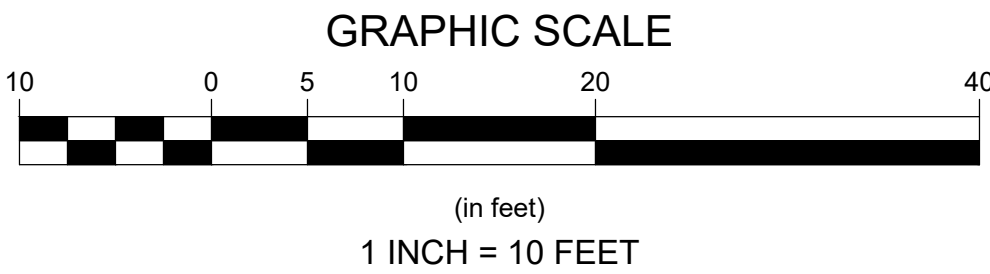
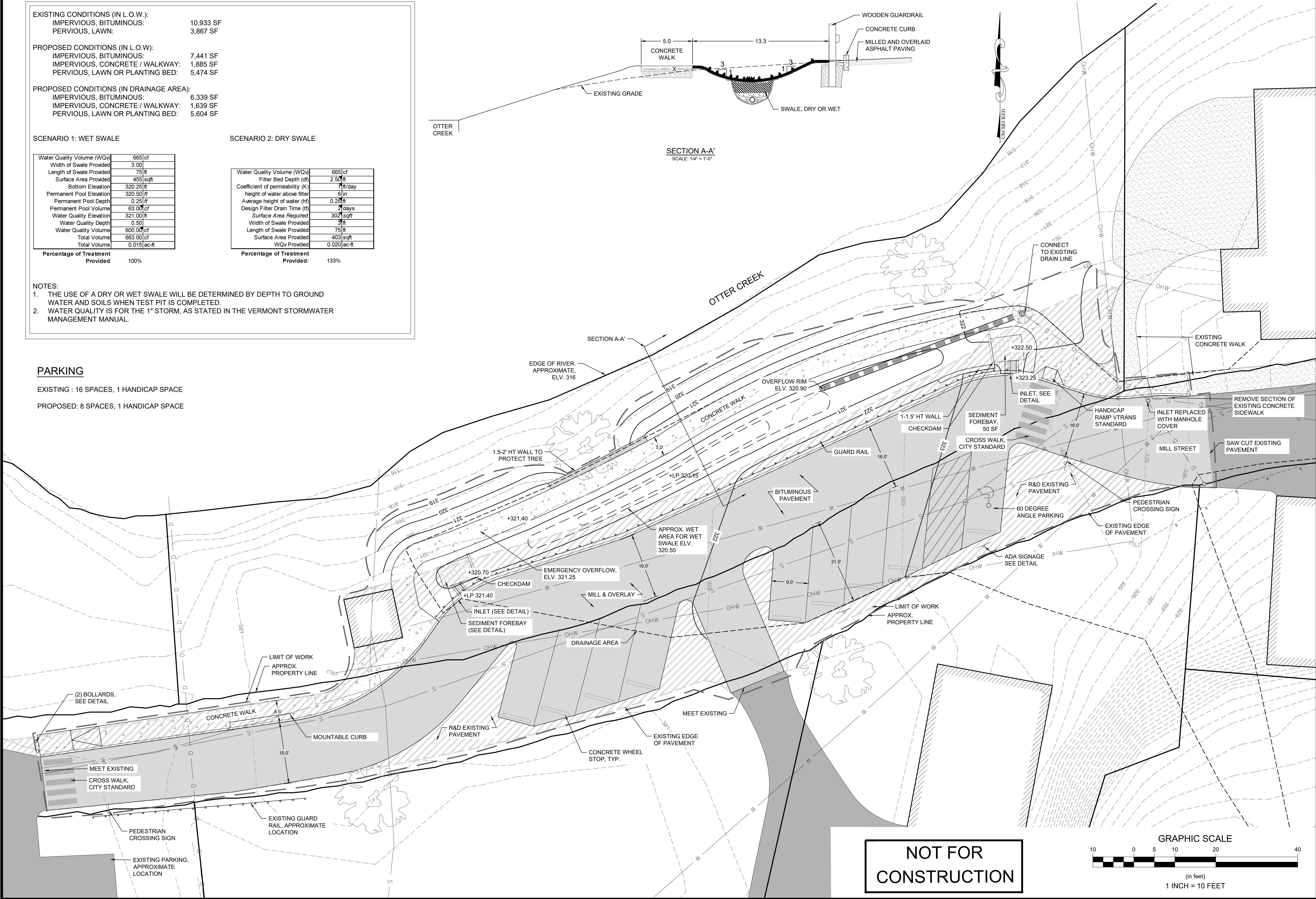
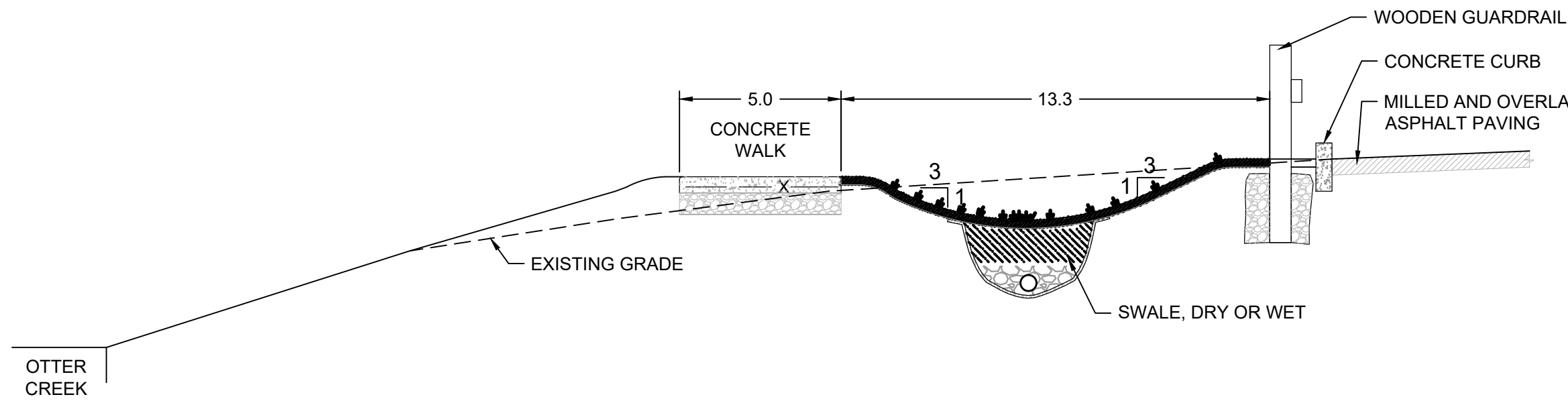
NOTES:

- THE USE OF A DRY OR WET SWALE WILL BE DETERMINED BY DEPTH TO GROUND WATER AND SOILS WHEN TEST PIT IS COMPLETED.
- WATER QUALITY IS FOR THE 1" STORM, AS STATED IN THE VERMONT STORMWATER MANAGEMENT MANUAL.

PARKING

EXISTING : 16 SPACES, 1 HANDICAP SPACE

PROPOSED: 8 SPACES, 1 HANDICAP SPACE



Revisions

Rev	Date	By	Appr	Description
1		JF		
2		EB		
3		EB		
4				
5				
6				
7				
8				
9				
10				

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30% DESIGN
MILL STREET SWALE
MIDDLEBURY, VERMONT

Plan Set:

Prepared For:
Middlebury Town
77 Main Street
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Fax: ---

Survey Provided By:
No Survey Provided

Registration:

Project Number: 19127 Sheet: 2 of 3

Sheet Number: C - 2

DRAFT
NOT FOR
CONSTRUCTION

