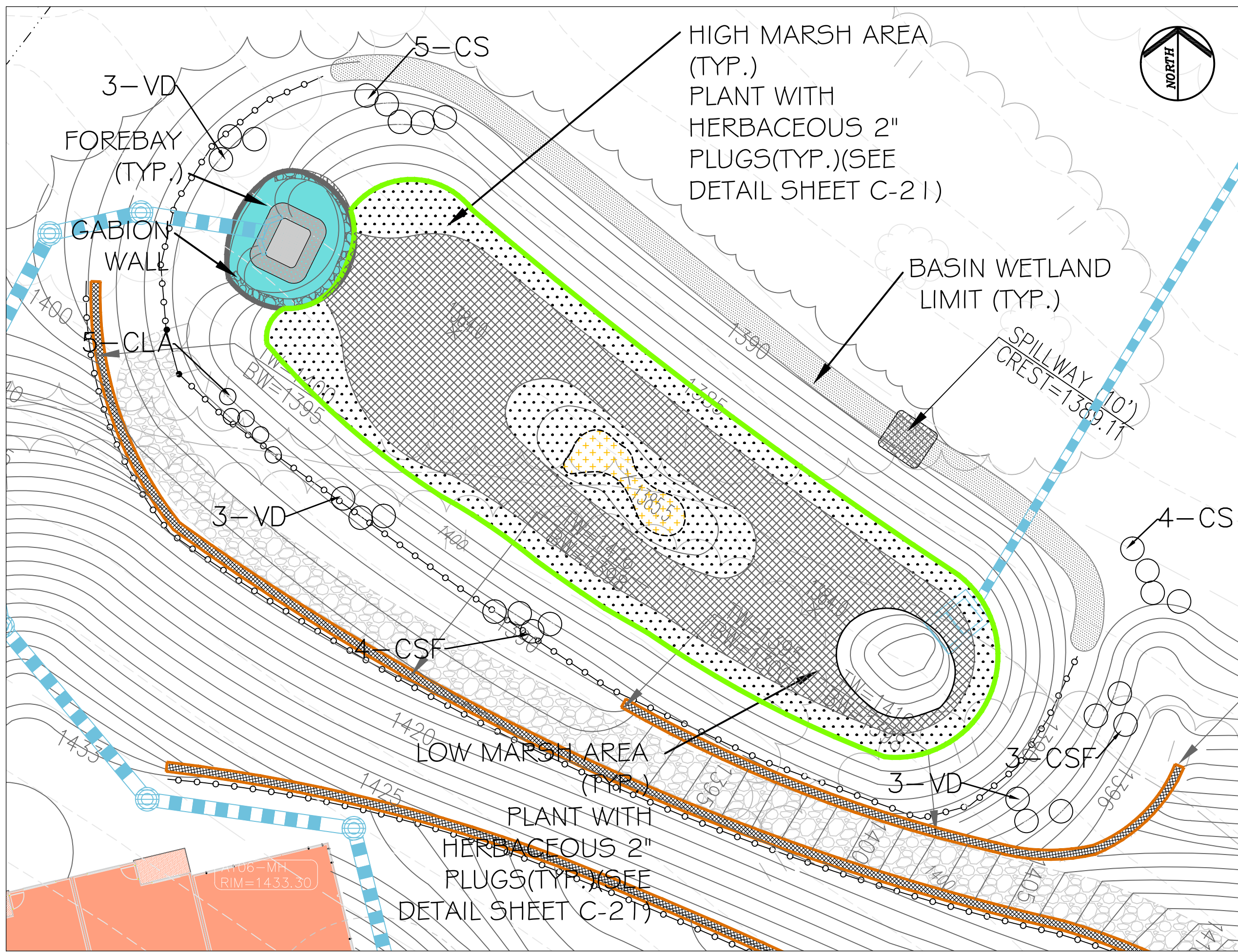
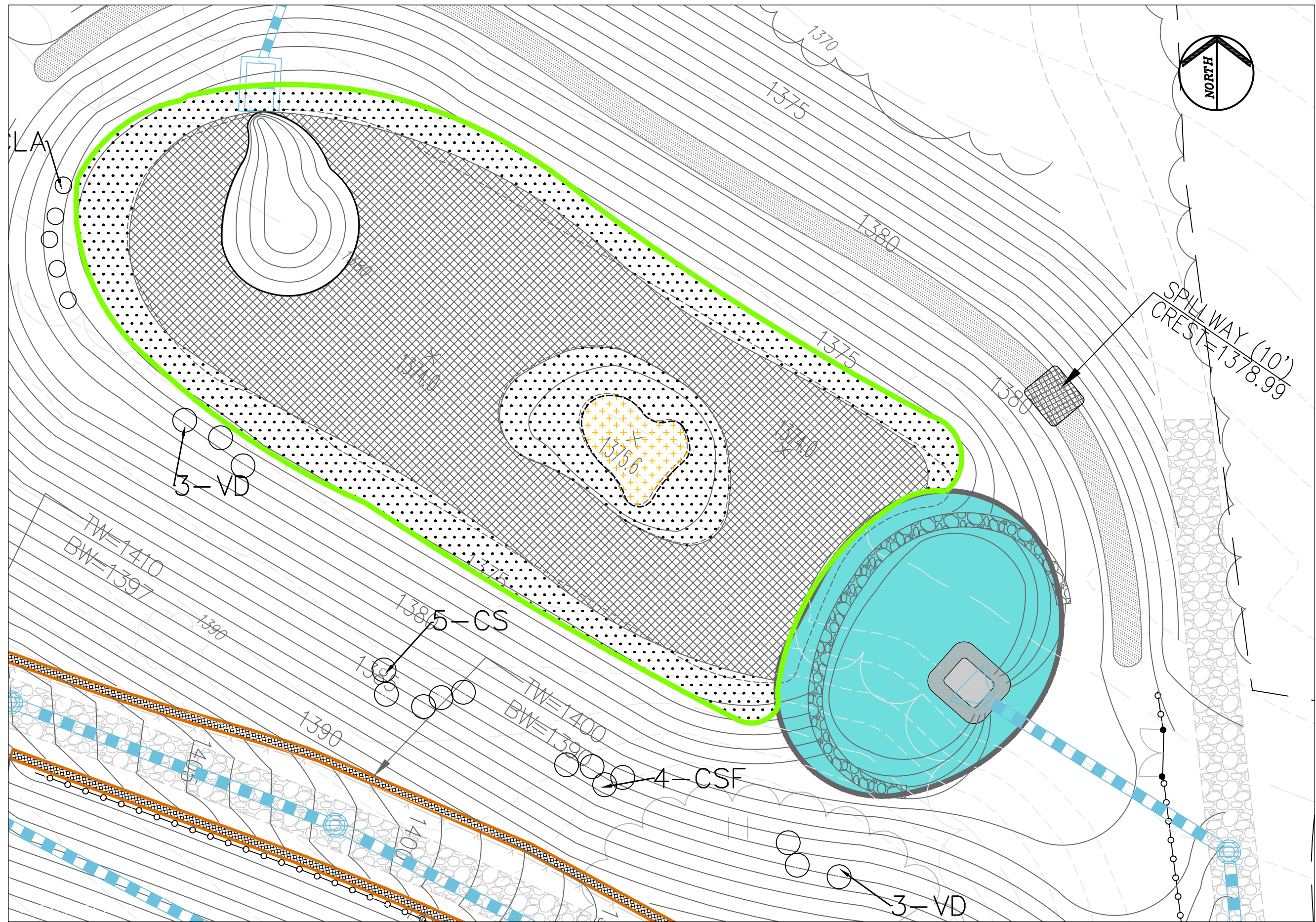




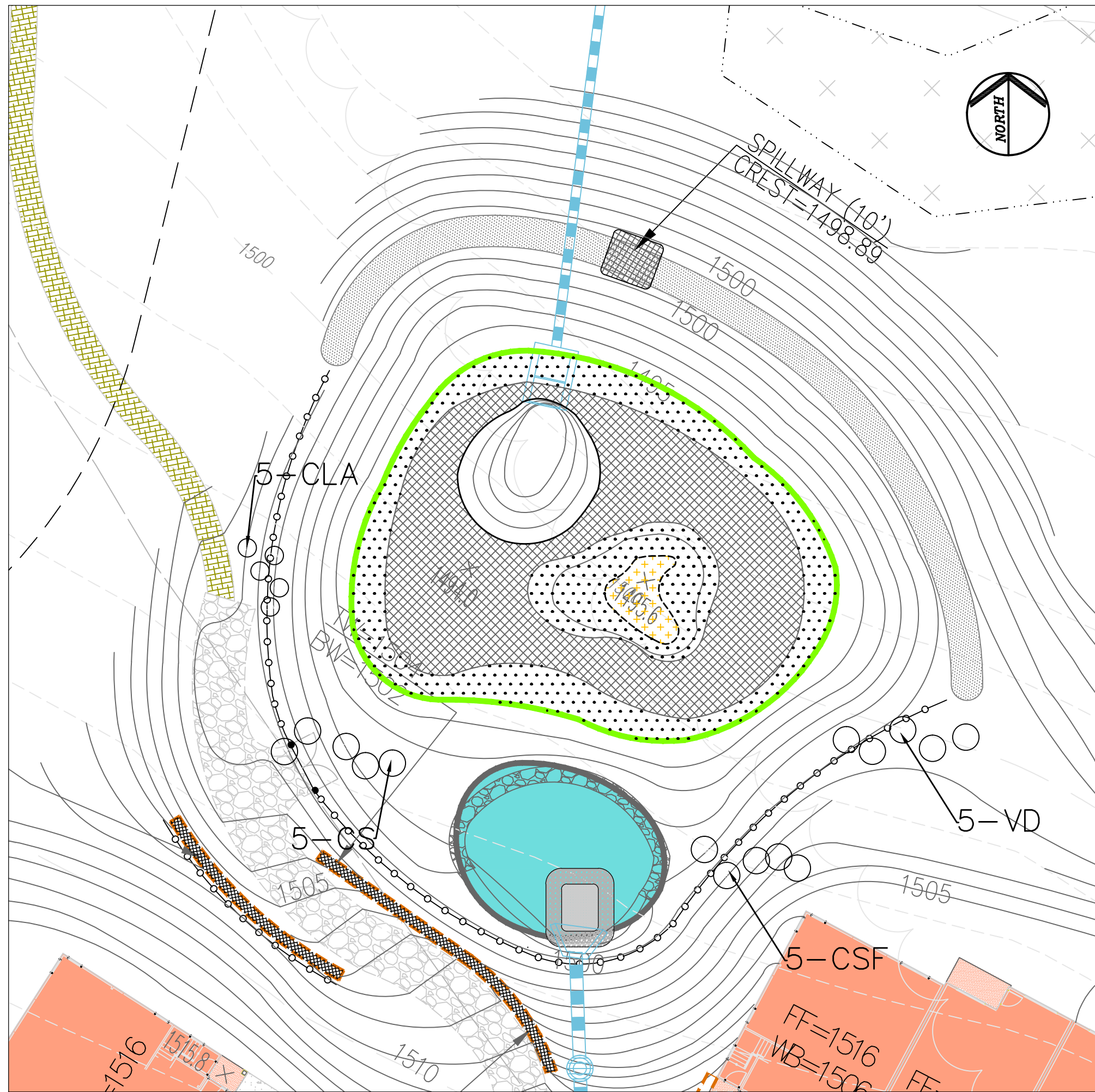
BASIN 'A' PLAN
SCALE 1"=20'



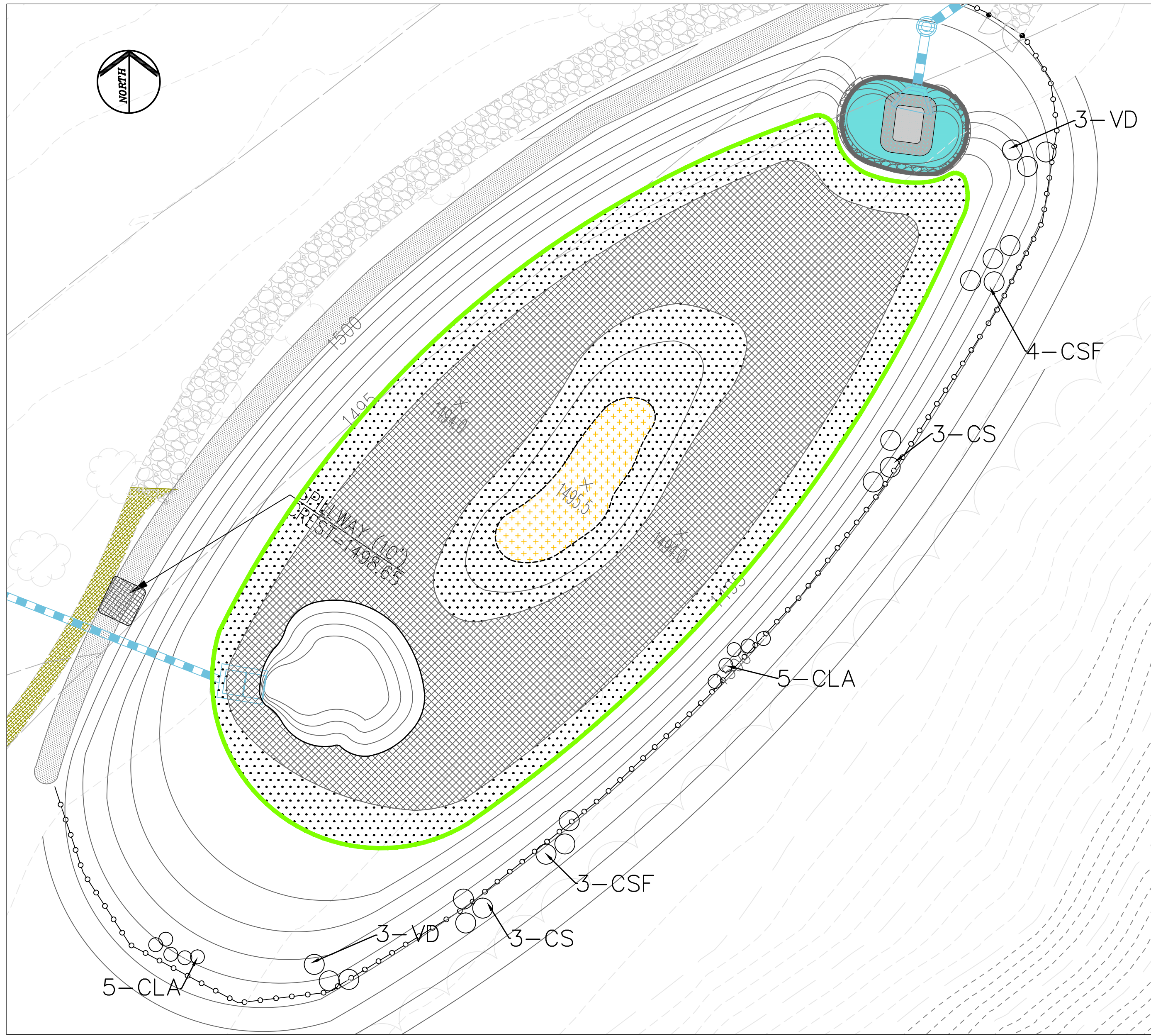
BASIN 'B' PLAN
SCALE 1"=20'



BASIN 'C' PLAN
SCALE 1"=20'



BASIN 'D' PLAN
SCALE 1"=20'



BASIN 'E' PLAN
SCALE 1"=20'

STORMWATER MANAGEMENT BASIN PLANT LIST						
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE COND.	REMARKS	HEIGHT SPREAD
SHRUBS						
CLA	30	Clethra alnifolia	Summersweet	2'-3'	Deciduous	6'-8'
CSF	33	Cornus sericea	Yellowing Dogwood	2'-3'	Deciduous	6'-8'
CS	32	Cornus alba 'Sibirica'	(Red Twig) Siberian Dogwood	2'	Deciduous	7'-9'
VD	32	Viburnum dentatum	Arrowwood	7 gal	Deciduous	10'-12'

SEE PLANTINGS NOTES AND DETAILS ON SHEET C-21

BASIN LEGEND

- HIGH MARSH ZONE (LESS THAN 6" DEPTH)
- LOW MARSH ZONE (BETWEEN 6"-18" DEPTH)
- WATERFOWL ISLAND (ABOVE WATER QUALITY STORM LEVEL)

6.2.4 Landscaping

Required Elements

- A landscaping plan shall be provided that indicates the methods used to establish and maintain wetland coverage. Minimum elements of a plan include: delineation of pondscaping zones, selection of corresponding plant species, planting plan, sequence for preparing wetland bed (including soil amendments, if needed) and sources of plant material.
- A wetland plant buffer must extend 25 feet outward from the maximum water surface elevation, with an additional 15-foot setback to structures.
- Donor soils for wetland mulch shall not be removed from natural wetlands.

Design Guidance

- Structures such as fascines, coconut rolls, straw bales, or carefully designed stone weirs can be used to create shallow marsh cells in high-energy areas of the stormwater wetland.
- The landscaping plan should provide elements that promote greater wildlife and waterfowl use within the wetland and buffers.
- Follow wetland establishment guidelines (see Appendix H).

6.2.3 Treatment

Required Elements

- The surface area of the entire stormwater wetland shall be at least one percent of the contributing drainage area (1.5% for shallow marsh design).
- A minimum of 35% of the total surface area can have a depth of six inches or less, and at least 65% of the total surface area shall be shallower than 18 inches.
- At least 25% of the WQ, shall be in deepwater zones with a depth greater than four feet.
- If extended detention is used in a stormwater wetland, provide a minimum of 50% of the WQ, in permanent pool; the maximum water surface elevation of WQ-ED shall not extend more than three feet above the permanent pool.
- A forebay shall be located at the inlet, and a four to six foot deep micropool that stores approximately 10% of the WQ, shall be located at the outlet to protect the low flow pipe from clogging and prevent sediment resuspension.

Design Guidance

- The bed of stormwater wetlands should be graded to create maximum internal flow path and microtopography.
- To promote greater nitrogen removal, rock beds may be used as a medium for growth of wetland plants. The rock should be one to three inches in diameter, placed up to the normal pool elevation, and open to flow-through from either direction.

STORMWATER MANAGEMENT BASIN NOTES

NOTE

SEE PLANTING NOTES AND DETAILS ON SHEET C-21

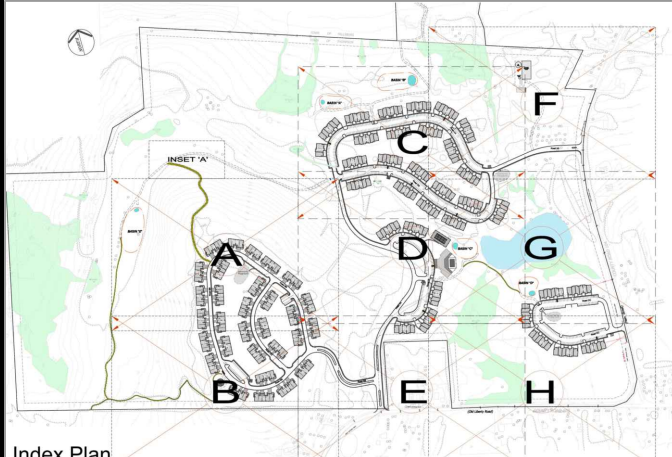
Basin Data										
Basin	Orifice		Area		Water Qual.		Low Marsh Area		High Marsh Area	
	Elev	S.F.	Elev	S.F.	Elev	%	S.F.	Elev	%	S.F.
A	1395.01	7,970	1395.24	4,475	1394.14	56.1%	2,831	1394.75	35.5%	238
B	1375.01	13,480	1375.40	7,441	1374.00	55.2%	4,879	1374.90	36.2%	476
C	1484.0	8,637	1484.98	4,426	1483.90	51.2%	3,117	1484.50	36.1%	454
D	1495.0	5,135	1495.40	2,580	1494.00	50.2%	1,846	1494.90	35.9%	185
E	1495.0	18,134	1495.17	9,888	1494.00	54.5%	7,033	1494.65	38.8%	756

High Marsh area is defined as the area where water depth is shallower than 6". Low Marsh area is defined as the area where water depth is between 6" and 18".

* Minimum of 35% of total area must be shallower than 6". At least 65% of total area shall be shallower than 18".

*** Design parameters taken from New York State Stormwater Management Design Manual (January 2015)

It is the obligation of the Engineer to provide the Contractor with a clear and concise set of drawings and specifications. The Contractor shall be responsible for the interpretation of the drawings and specifications. The Contractor shall be responsible for the interpretation of the drawings and specifications. The Contractor shall be responsible for the interpretation of the drawings and specifications.



CONSULTANTS

PS&S
integrating design & engineering

67A MOUNTAIN BOULEVARD EXTENSION
P.O. BOX 4039
WARREN, NEW JERSEY 07059
PHONE: (732) 560-9700
FAX: (732) 560-9768

LISA A. DIGEROLAMO, P.E.
PROFESSIONAL ENGINEER
NEW YORK LIC. NO. 086749

SIGNATURE _____ DATE 7/1/2016

REVISIONS/ISSUES		
REV	DATE	DESCRIPTION
1	02/10/16	PRE-ISSUE FOR TEAM REVIEW
2	05/11/16	PRELIMINARY SITE PLAN REVIEW
3	07/5/16	SUBMISSION TO PLANNING BOARD

PROJECT TITLE

PRELIMINARY & FINAL SITE PLAN

Gan-Eden Estates

TOWN OF THOMPSON SULLIVAN COUNTY NEW YORK

TAX LOT SECTION 2, BLOCK 1/ LOT 6.3

SHEET TITLE		INITIAL DATE	JOB NO.
STORMWATER BASINS		12/04/2015	01895/0053
SCALE		AS SHOWN	B/D
DRAWN		CY/FM /CCY	SHEET NO.
CHKD.		AG/LAD	C-25 79 OF 79