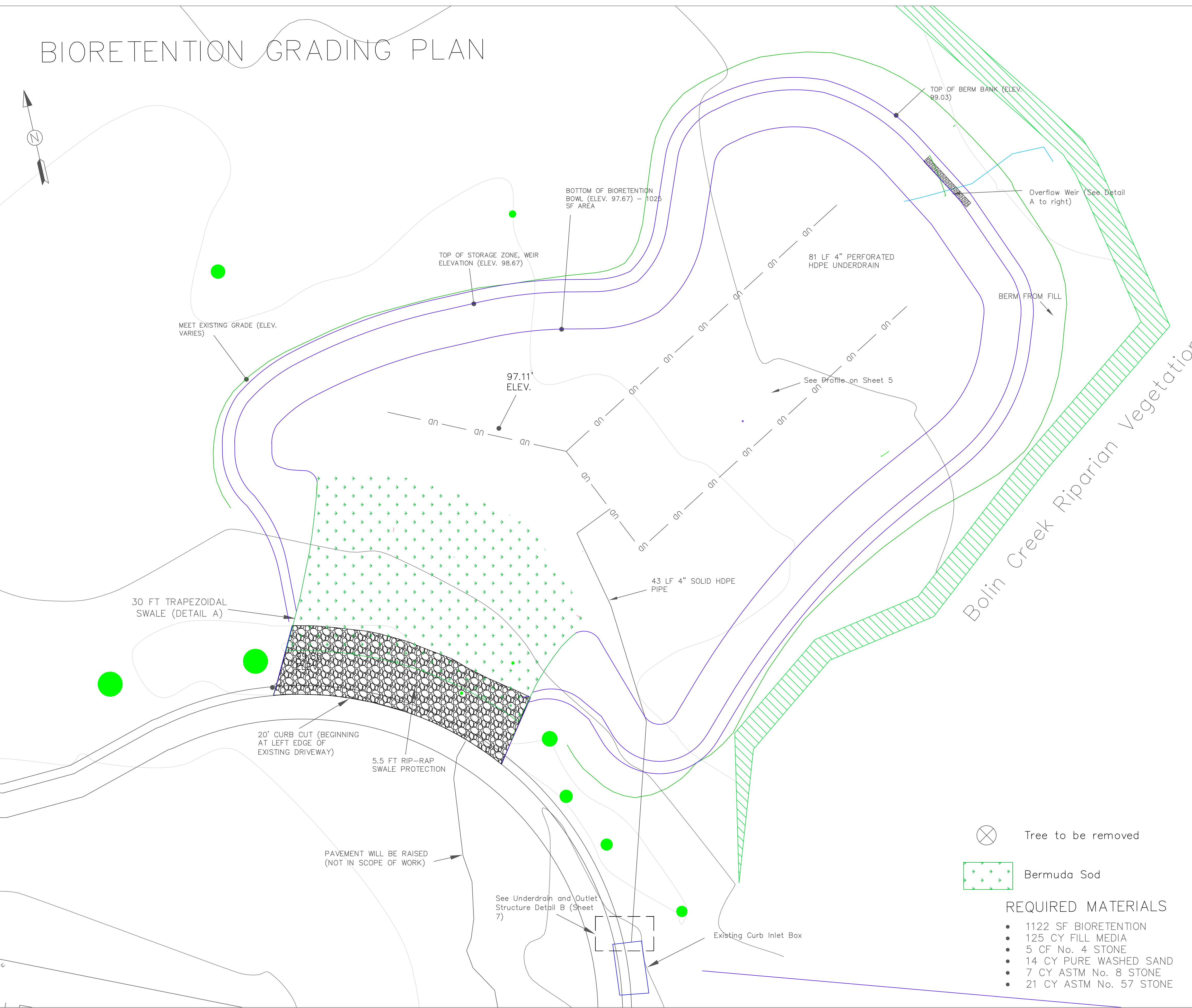


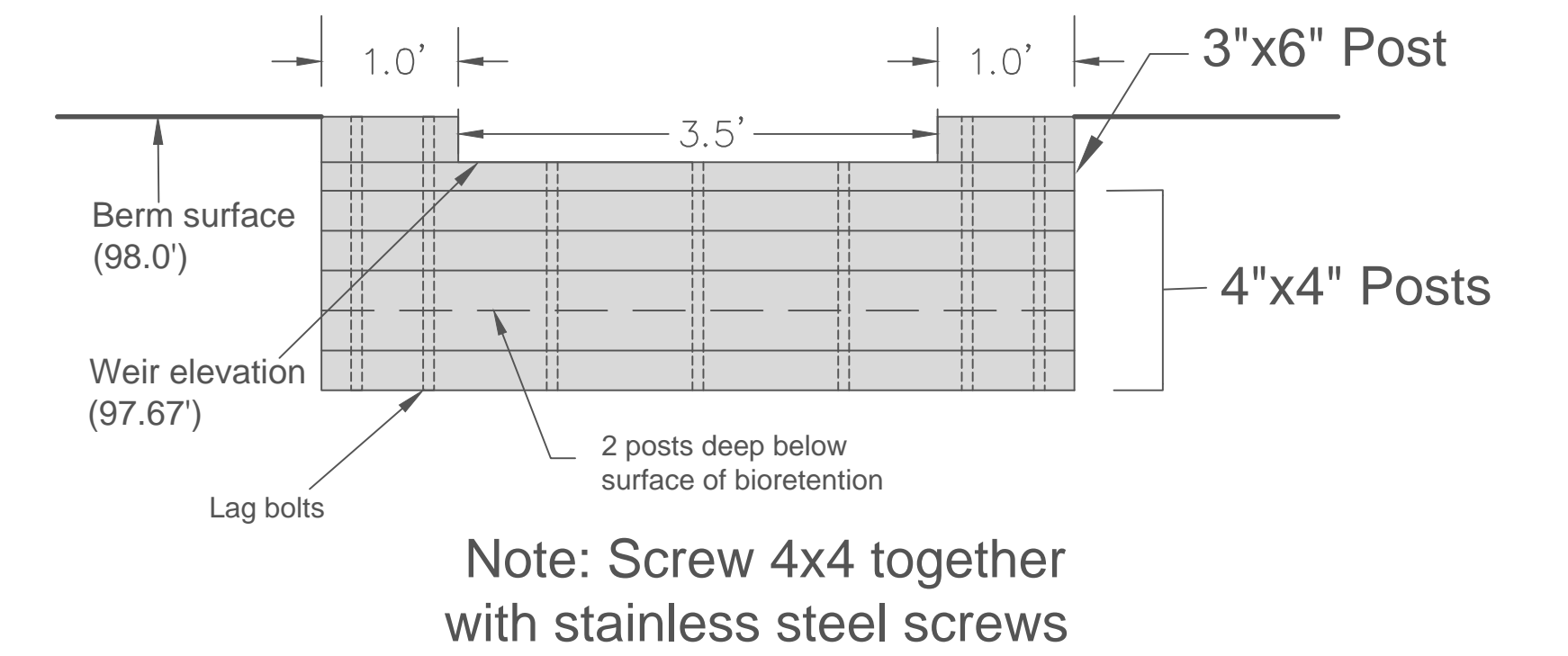
APPENDIX 6: DICKERSON COURT BIORETENTION PROJECT MATERIALS

BIORETENTION GRADING PLAN

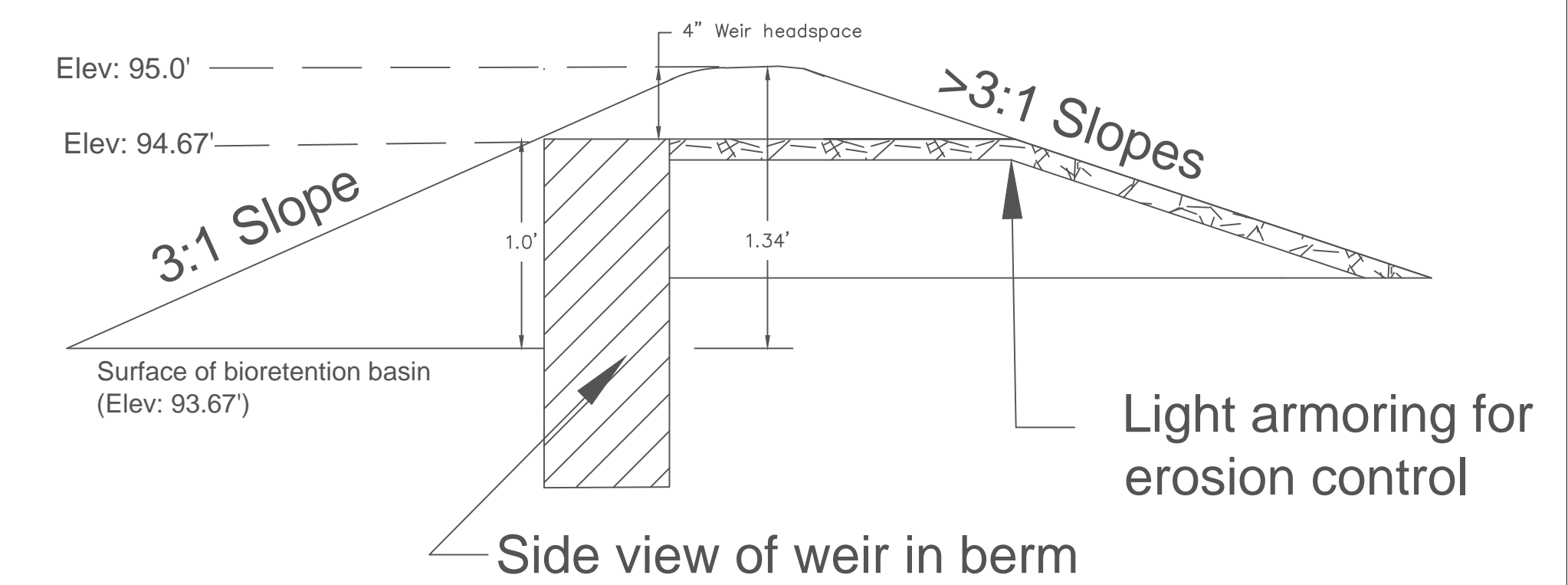


A. BIORETENTION OVERFLOW WEIR

VIEW PERPENDICULAR TO BERM AND FLOW PATH



WEIR AND BERM SECTION VIEW



NOTES

1. The weir is constructed by stacking pressure treated lumber.
2. Weir structure shall be installed level on a 6" minimum compacted depth of coarse sand bedding. Backfill and grade adjacent areas.
3. Filter fabric shall be Mirafi 180N or equal.

⊗ Tree to be removed

➤ Bermuda Sod

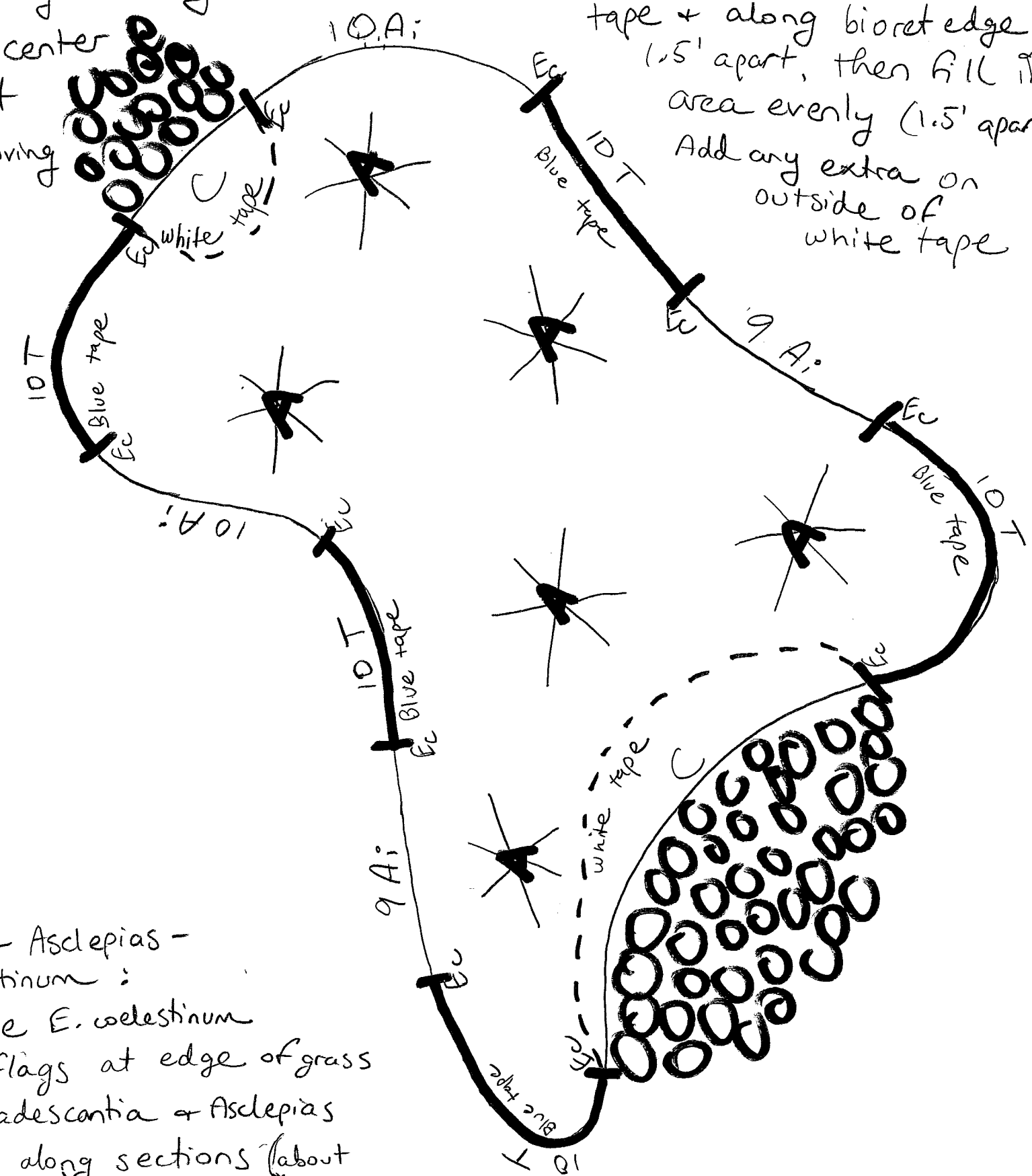
REQUIRED MATERIALS

- 1122 SF BIORETENTION
- 125 CY FILL MEDIA
- 5 CF No. 4 STONE
- 14 CY PURE WASHED SAND
- 7 CY ASTM No. 8 STONE
- 21 CY ASTM No. 57 STONE

Fill in with pink muhly starting at the center 1 to 1.5 feet apart + moving outwards

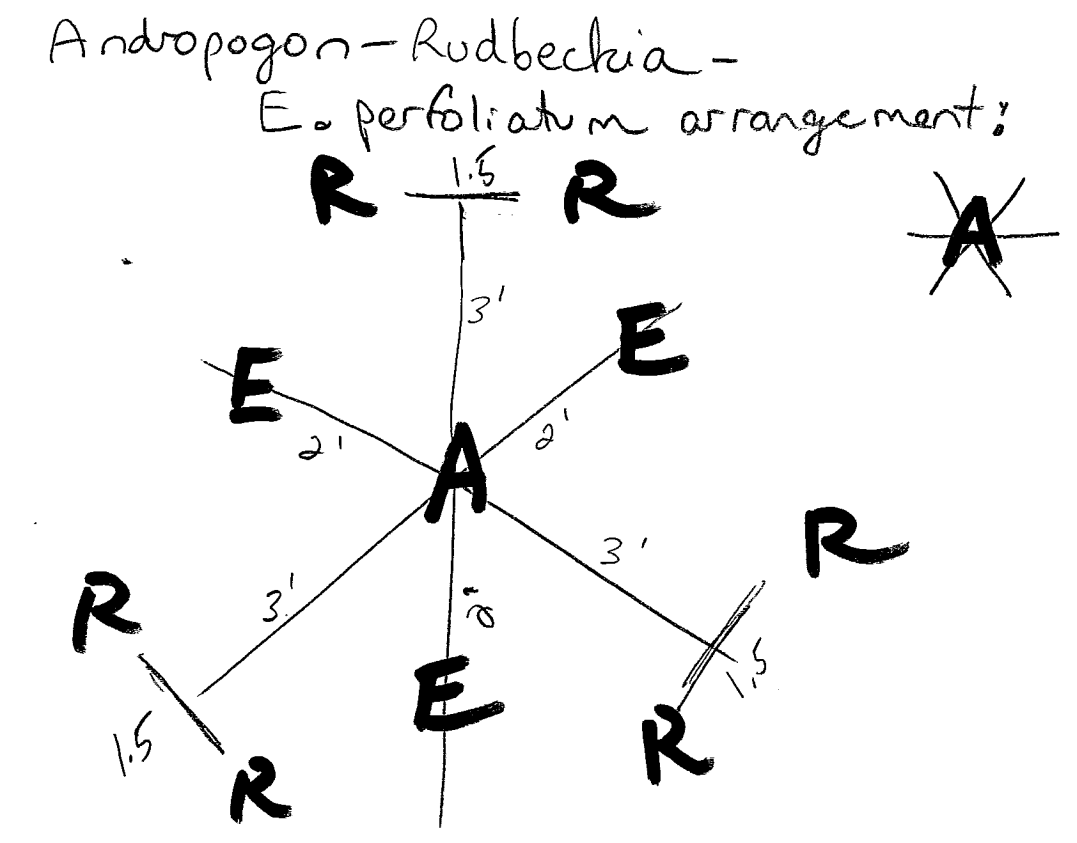
Chasmanthium - start by laying out just inside white tape + along bioret edge 1.5' apart, then fill in area evenly (1.5' apart) Add any extra on outside of white tape

- "A;" *Asclepias incarnata* (38)
- "T" *Tradescantia ohioensis* (50)
- "R" *Rudbeckia fulgida* (36)
- "C" *Chasmanthium latifolium* (50)
- "A" *Andropogon gerardii* (6)
- "E" *Eupatorium perfoliatum* (18)
- "Ec" *Eupatorium coelestinum* (11)
- Muhlenbergia capillaris* (pink) (est. 50)



Tradescantia - Asclepias - *E. coelestinum* :

- ① plant single *E. coelestinum* first at 11 flags at edge of grass
- ② space Tradescantia + Asclepias out evenly along sections (about every 1 to 1.5 ft) at edge of grass Tradescantia along blue tape, Asclepias at other sections





The end of Dickerson Court before construction



Starting to excavate the bioretention basin



The basin is completely excavated



The shape of the basin



Laying the underdrains



Filling in with soil media



Ready for planting



Flags and tape are laid out to help the gardeners plant



The planting is finished



The driveway apron is cut flush and riprap laid at the entrance to the basin

Project statistics on the Bolin Creek Chapel Hill EPA 319 Grant

Parameter	Hargraves (Mitchell Ln.)	Dickerson Ct.
Drainage area (acre)	0.98	0.55
BMP size (sf)	600	1195
WQ Storage depth (ft)	1.0	1.0
Media depth (ft)	3.0	3.0
IWS depth (ft)	1.4	2.0
Weir description	12" PVC stand pipe	Trapezoidal weir
Freeboard (ft)	0.25'	0.33'
TN load reduction (lb/yr)	1.88	4.42
TN post-BMP export (lb/yr)	3.48	8.19
TP load reduction (lb/yr)	0.25	0.60
TP post-BMP export (lb/yr)	0.31	0.74