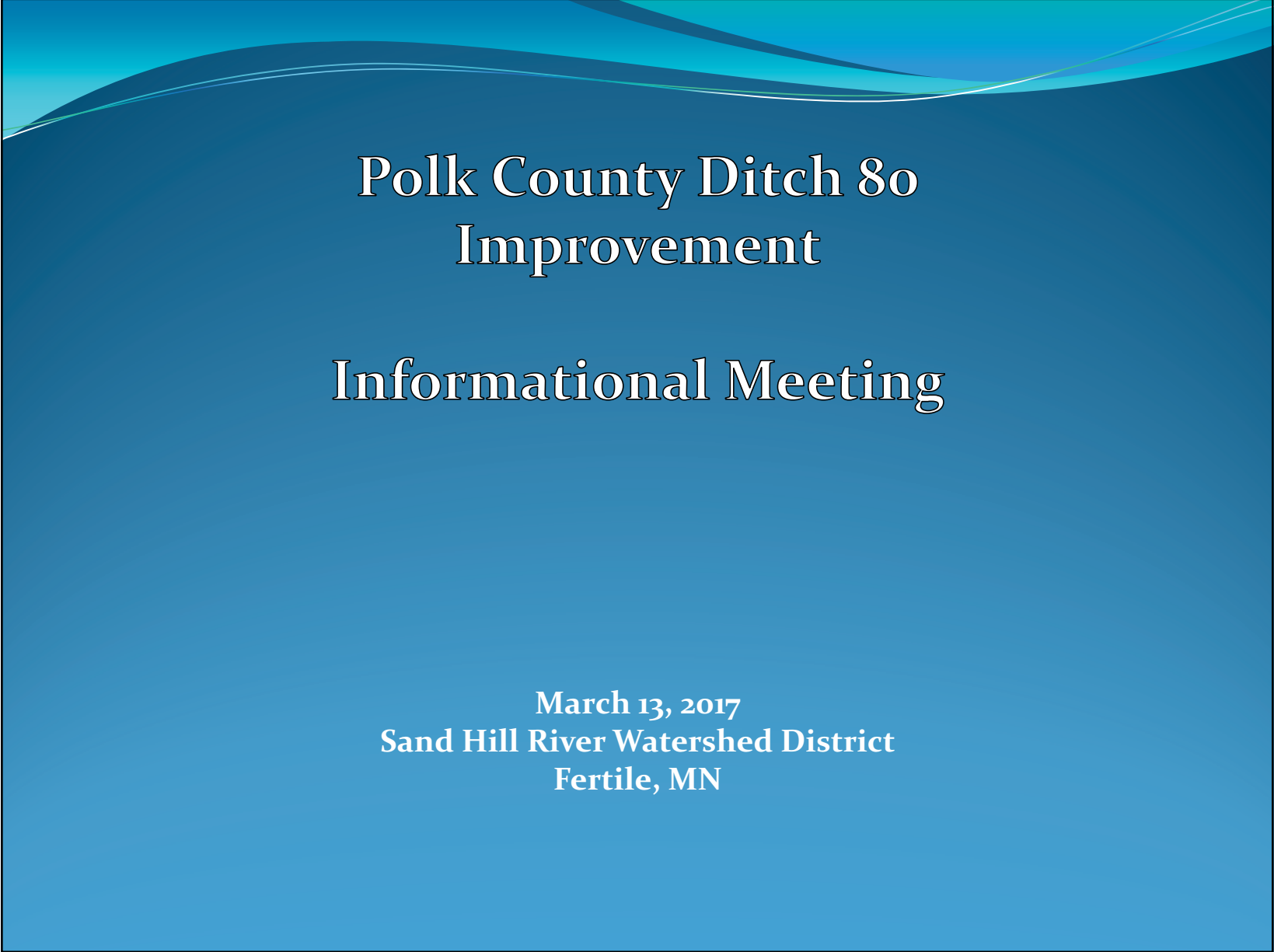


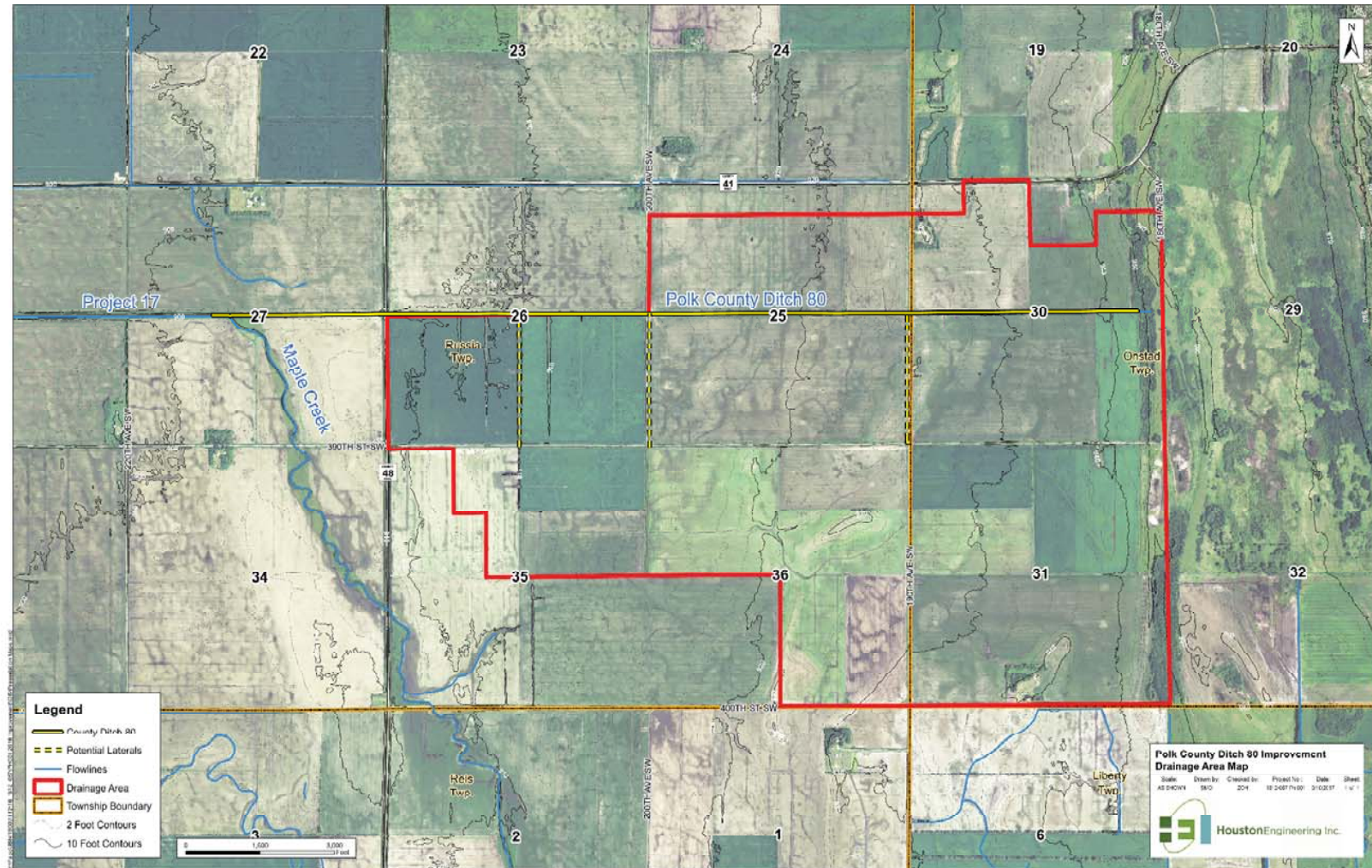


Polk County Ditch 80 Improvement

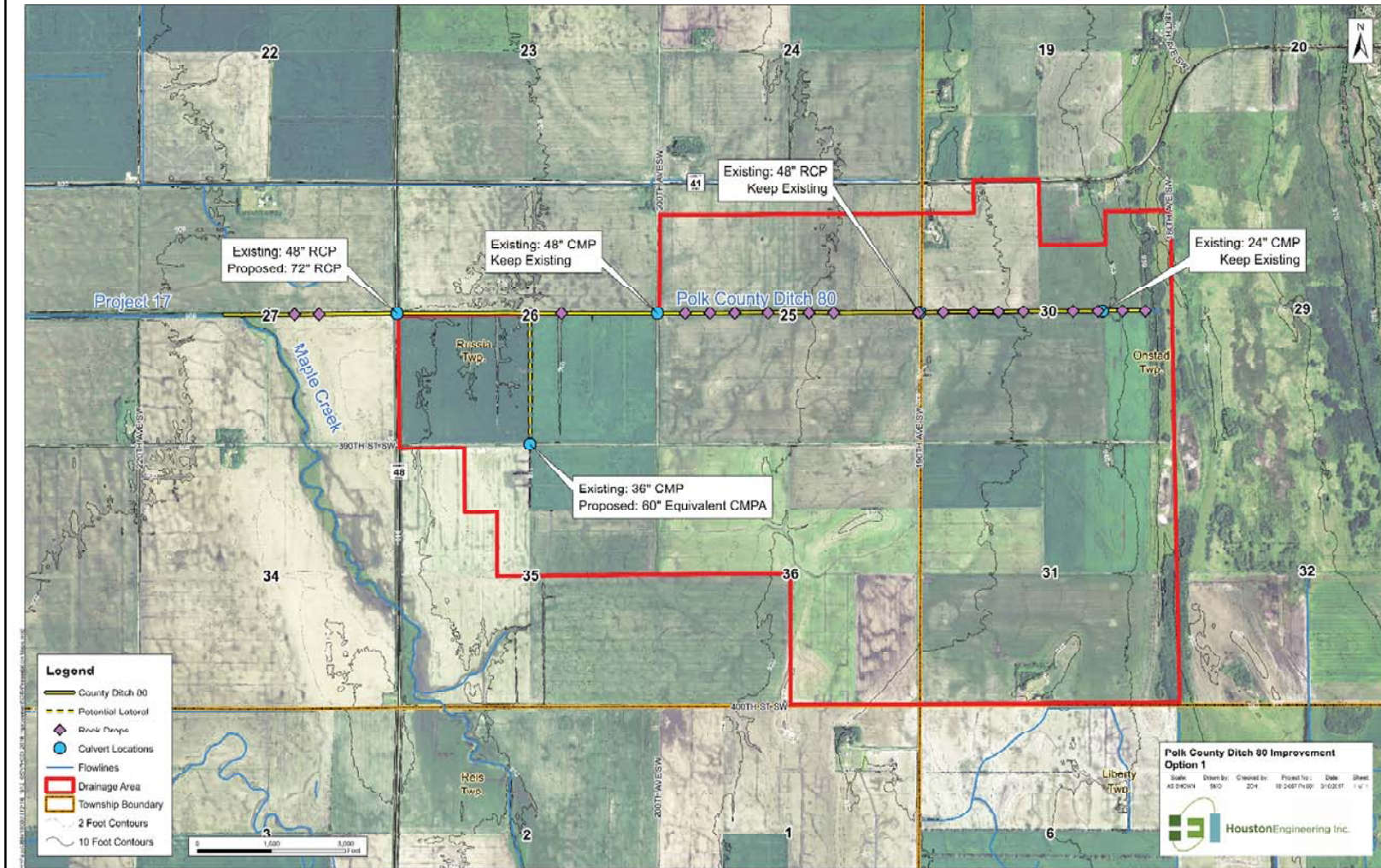
Informational Meeting

March 13, 2017
Sand Hill River Watershed District
Fertile, MN

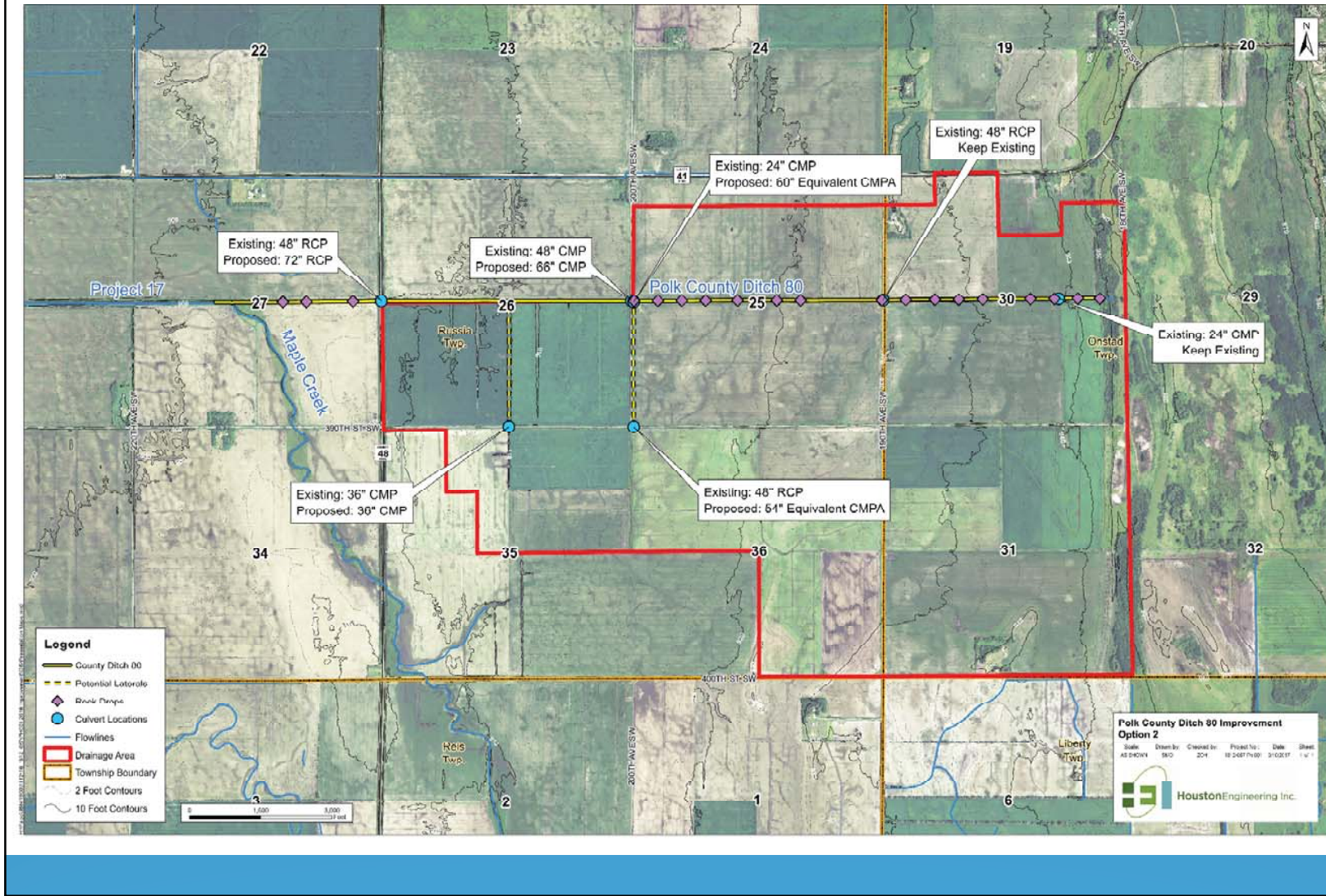
Drainage Area Map

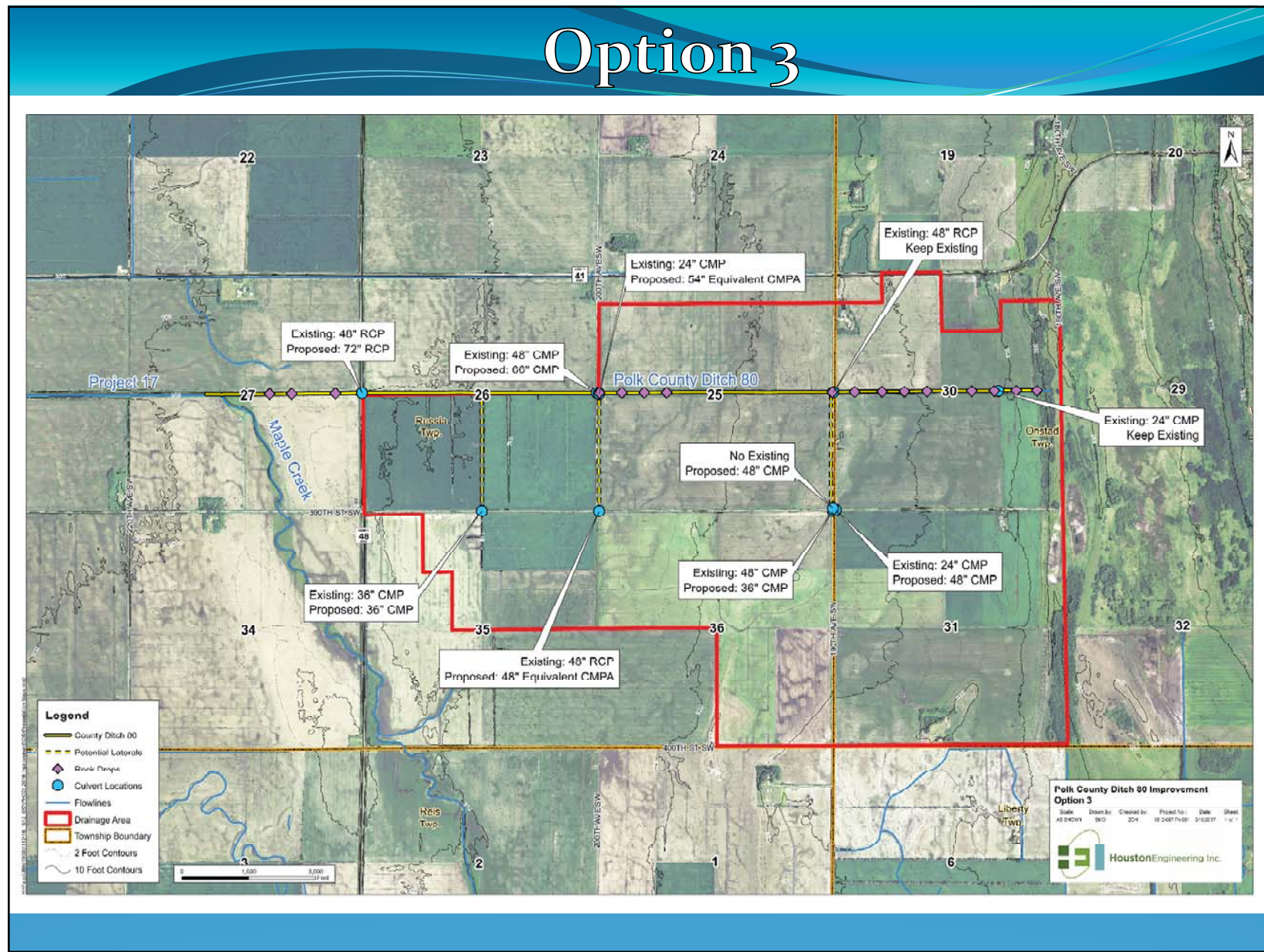


Option 1

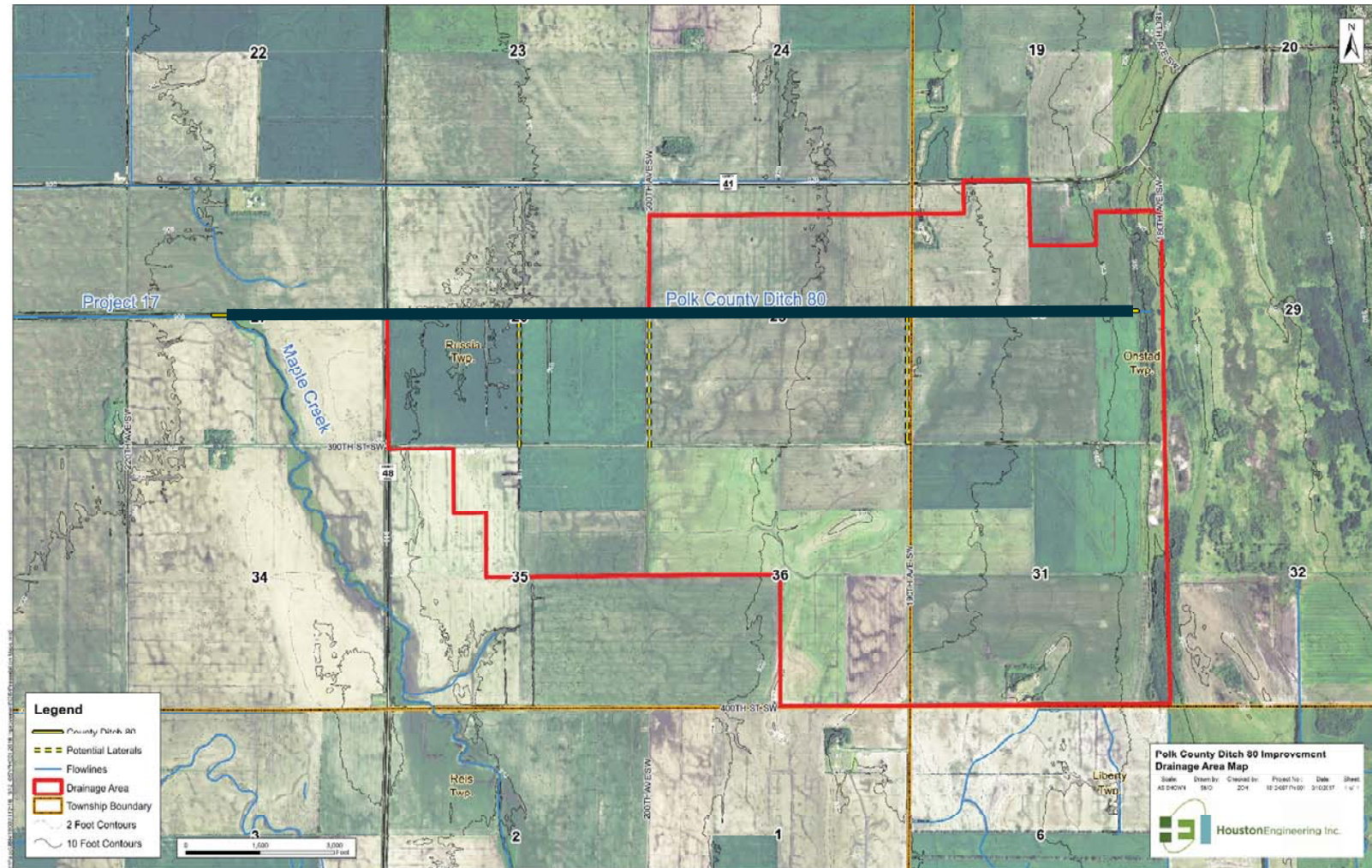


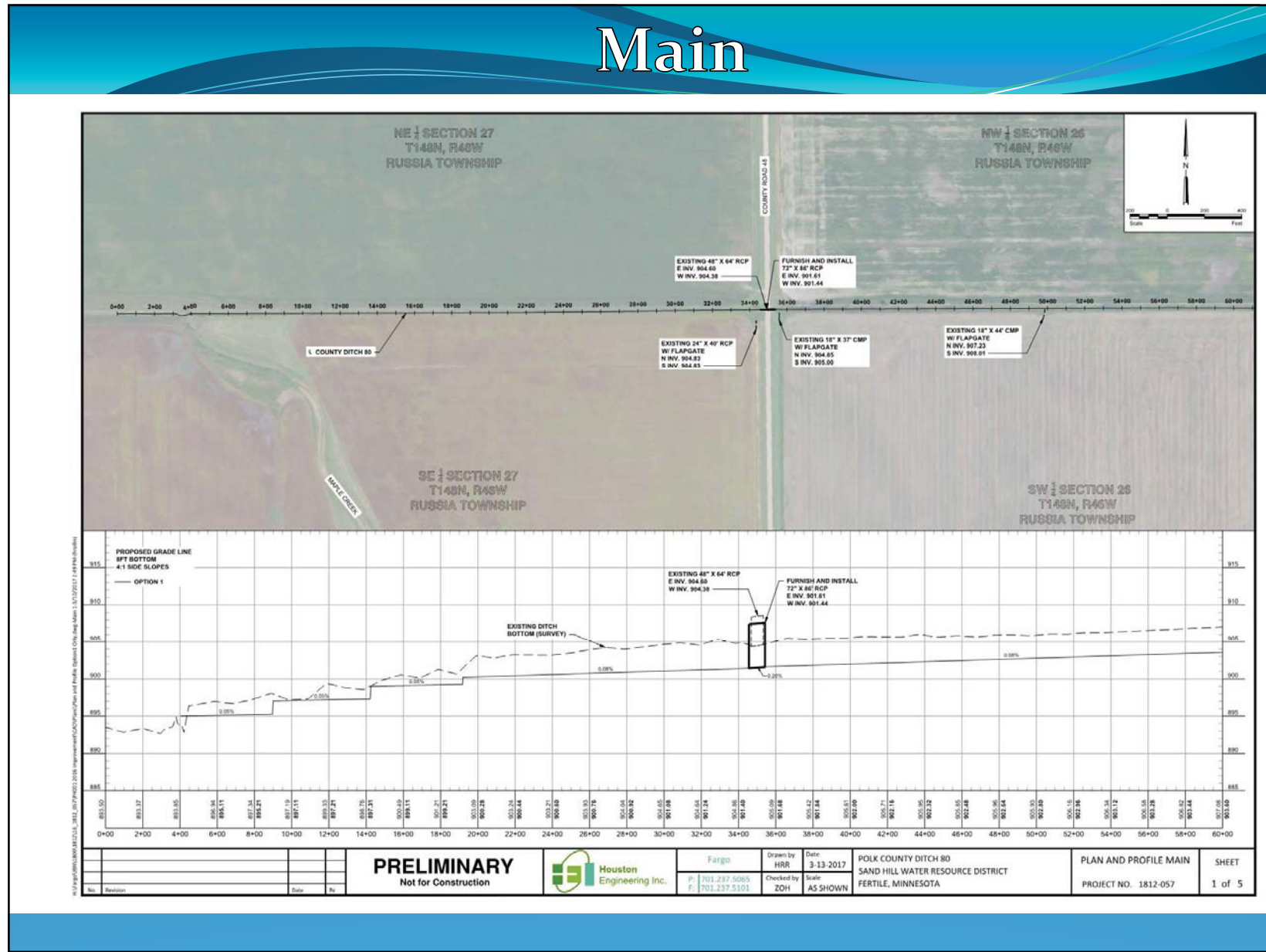
Option 2

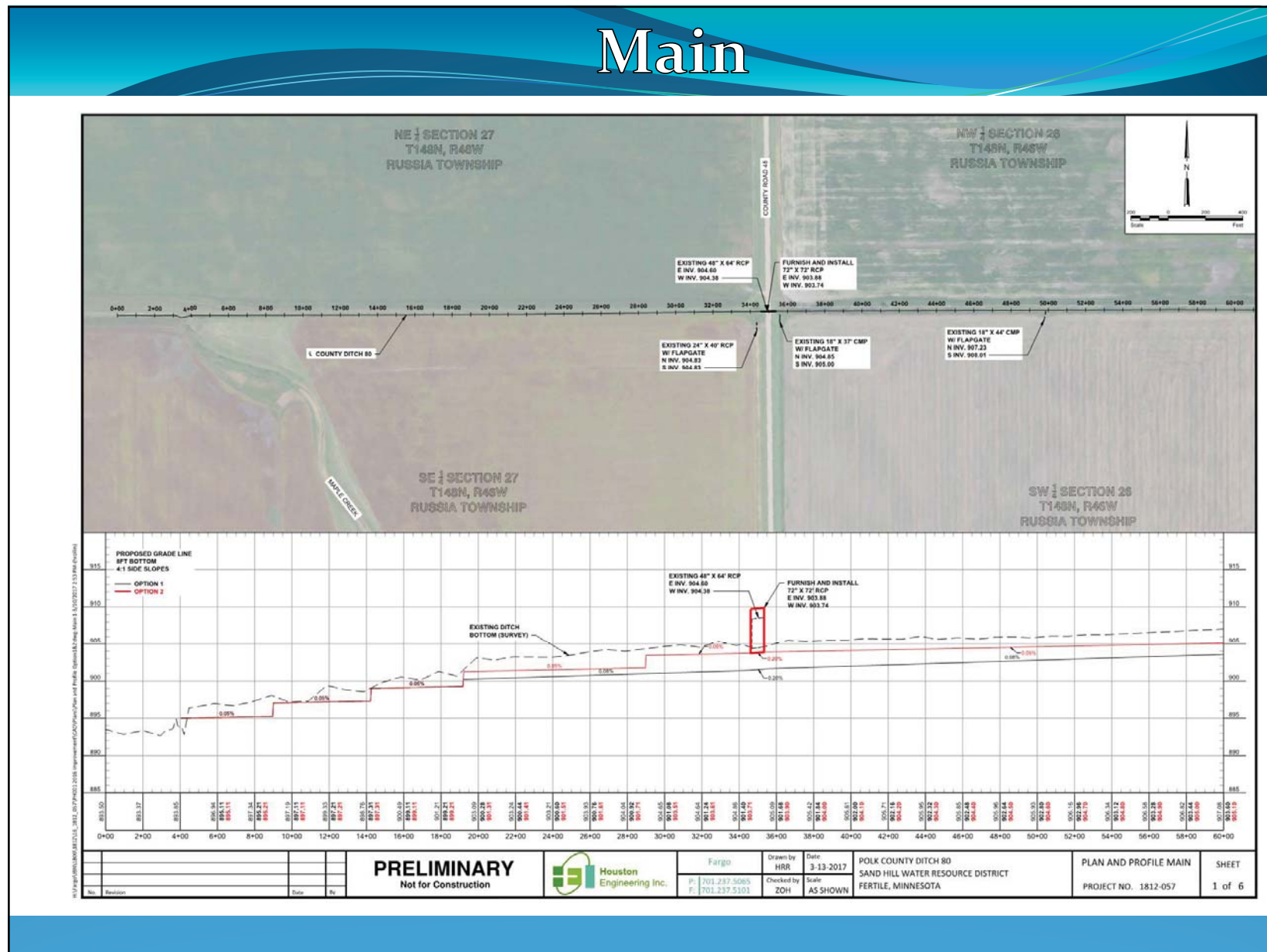


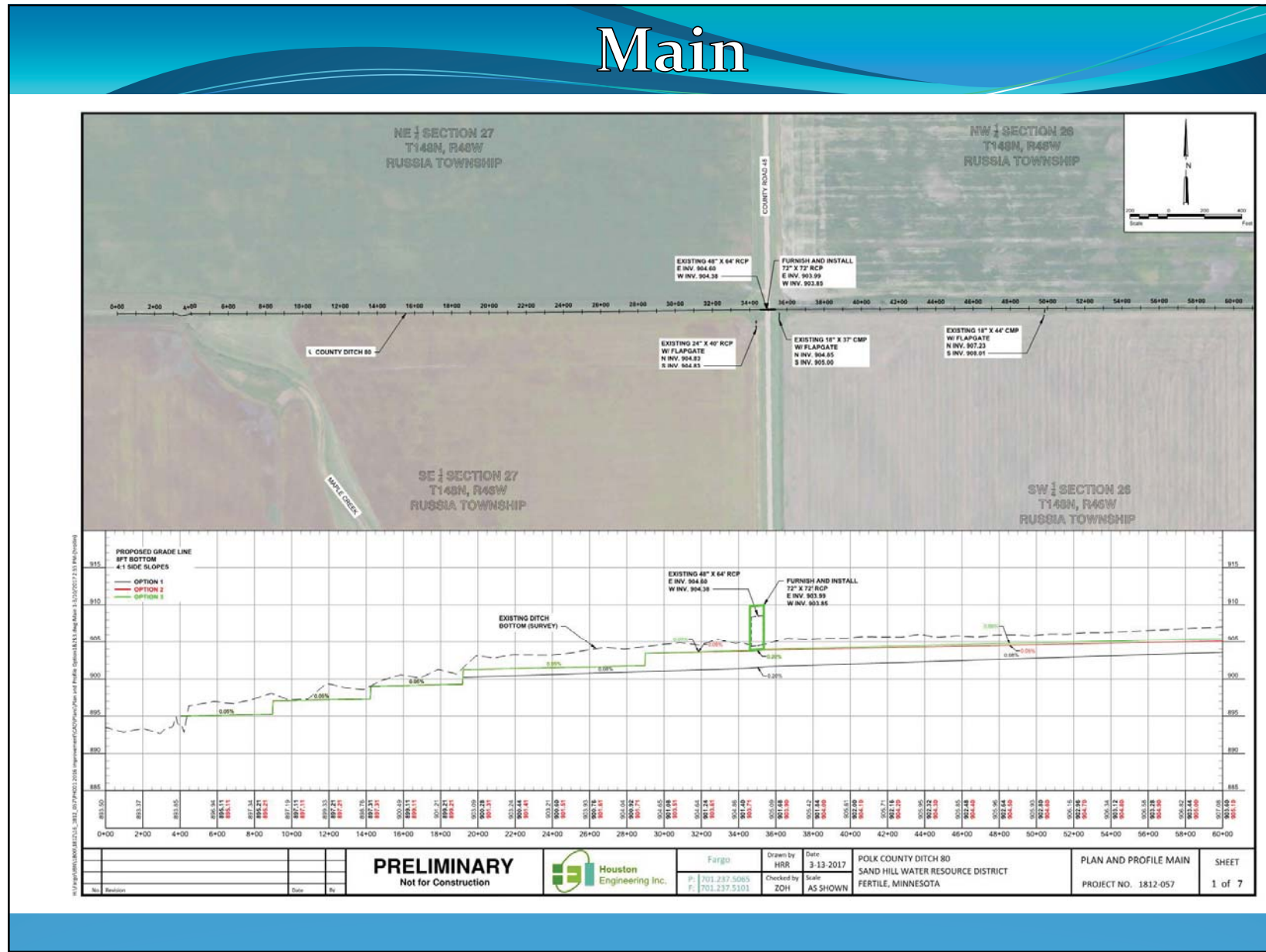


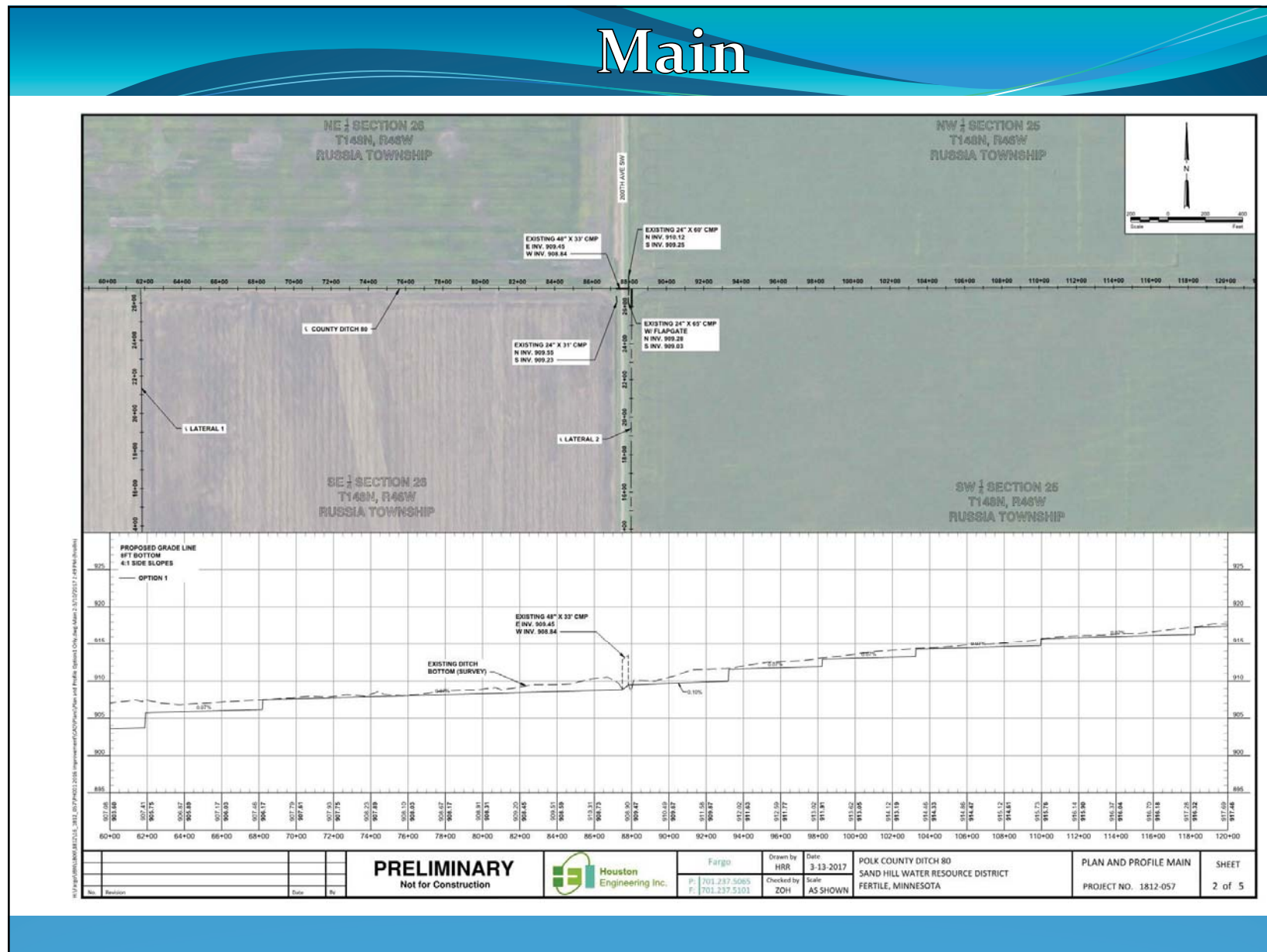
Drainage Area Map

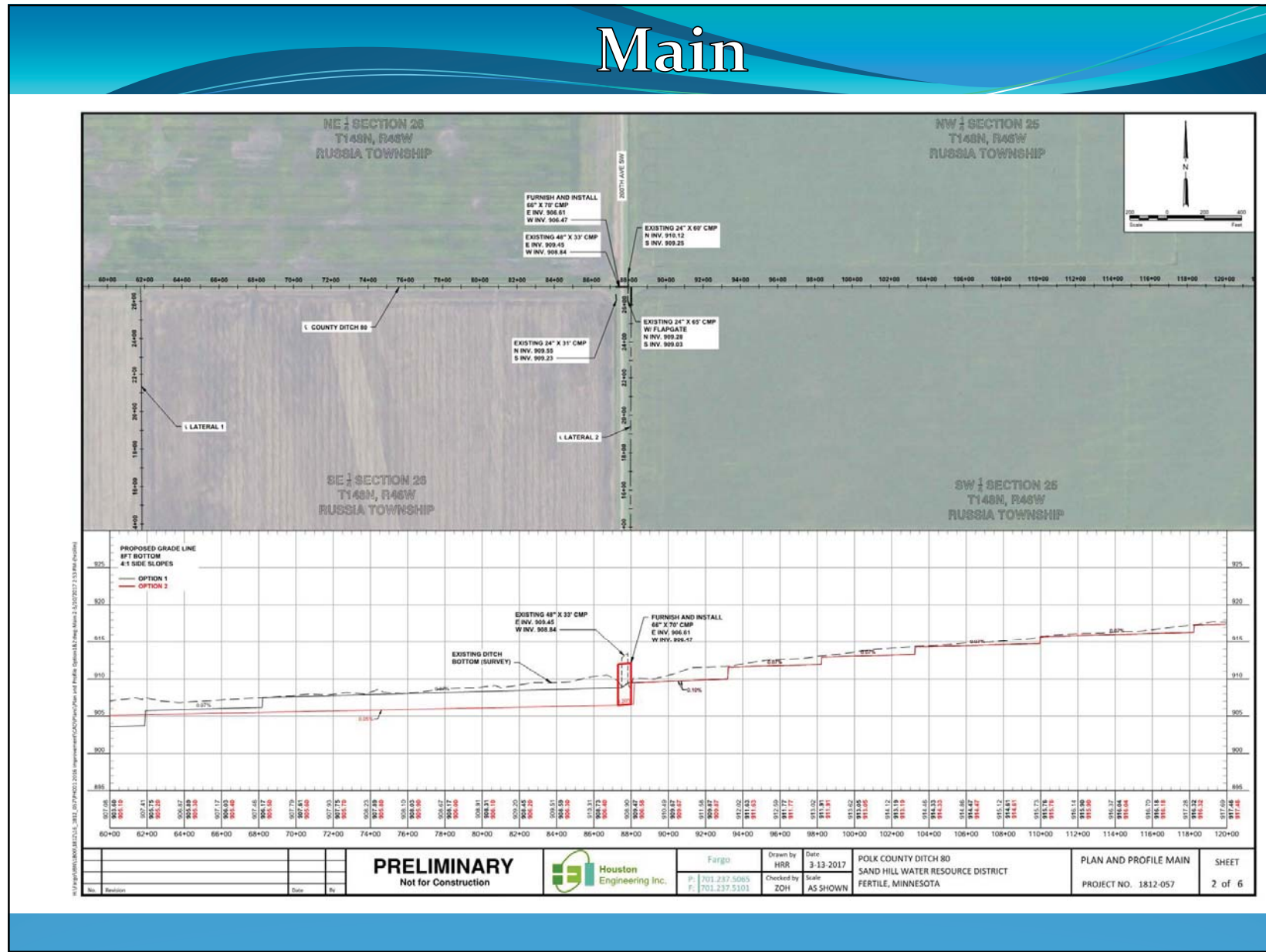




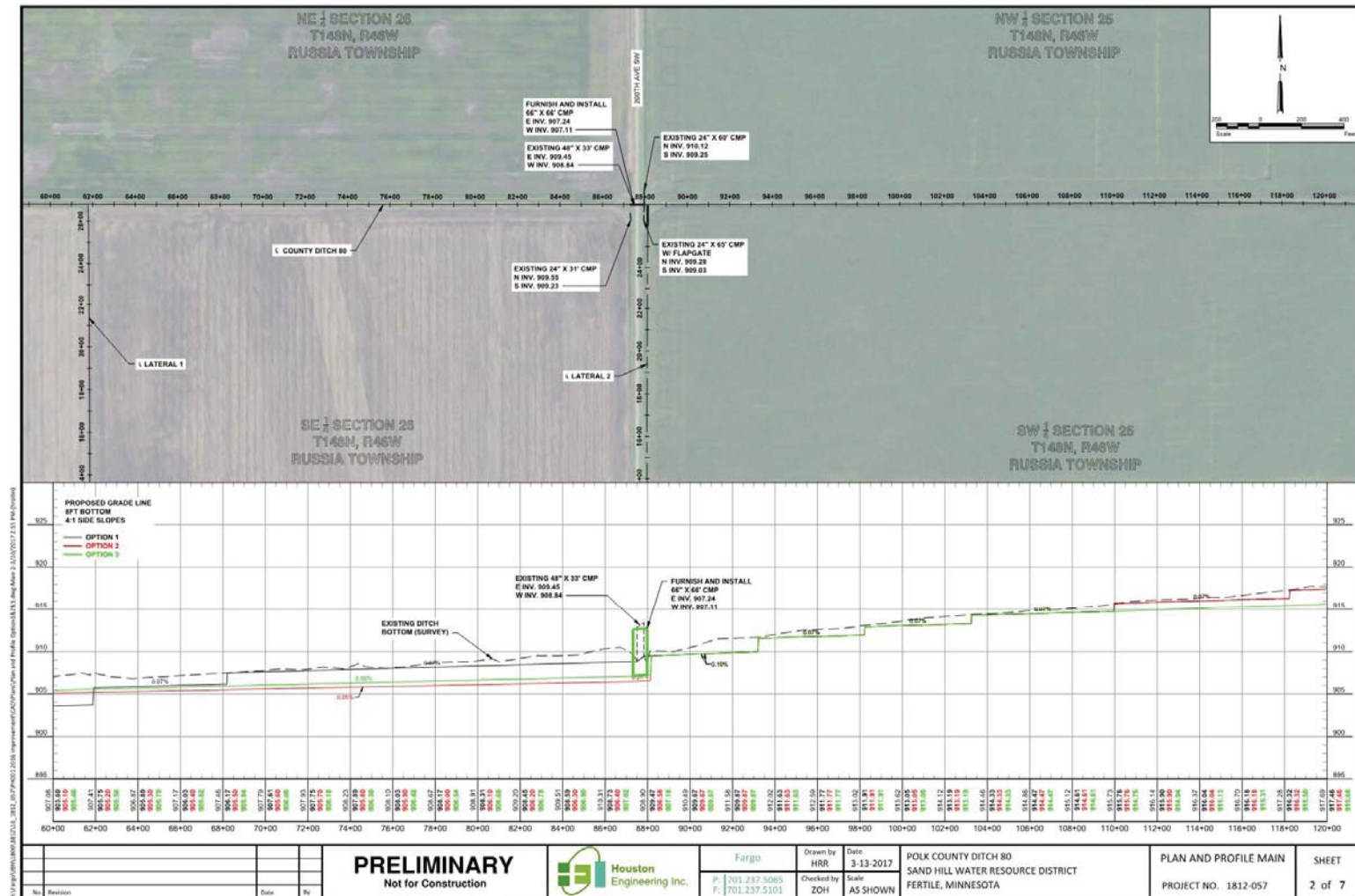




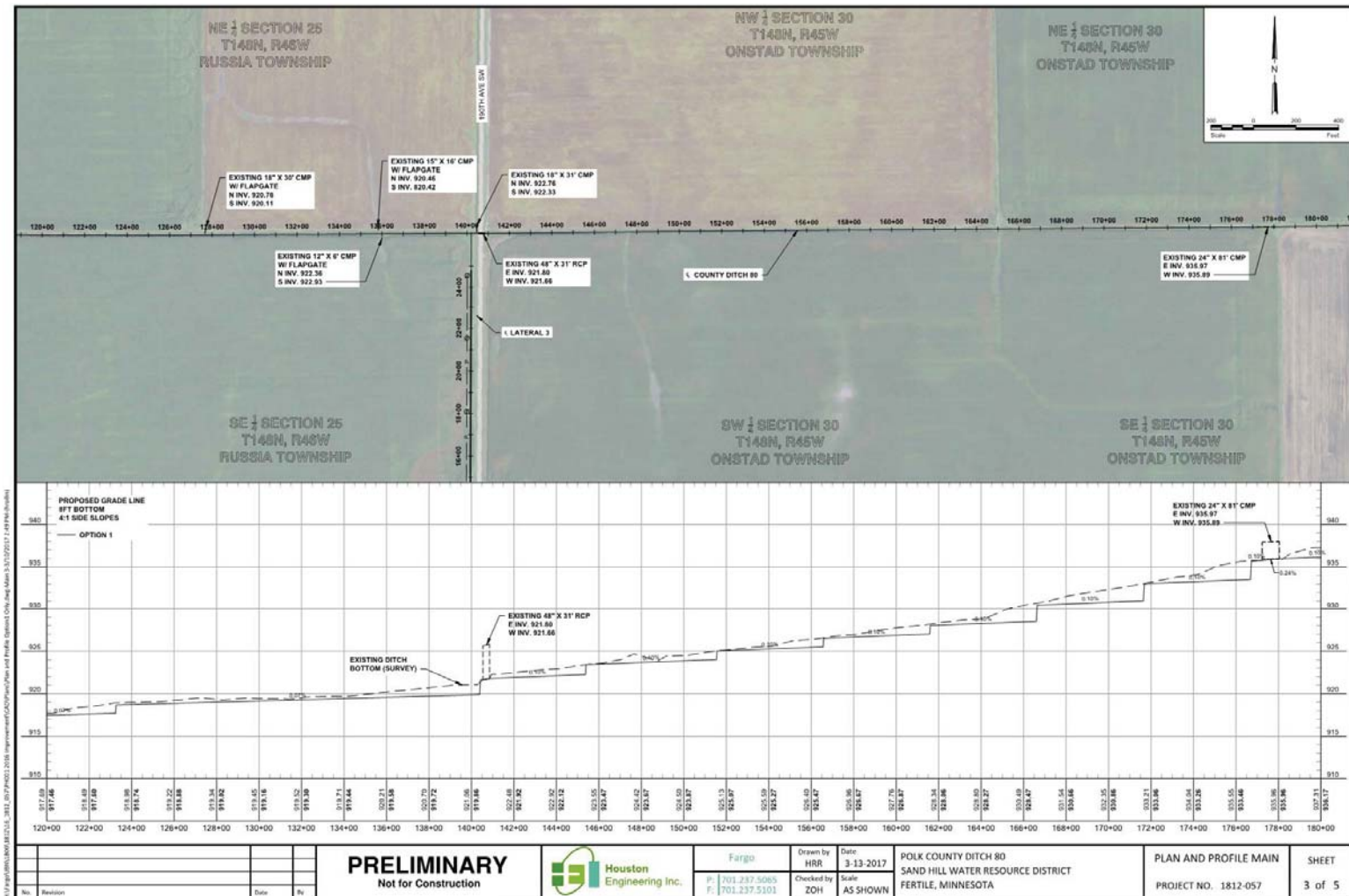




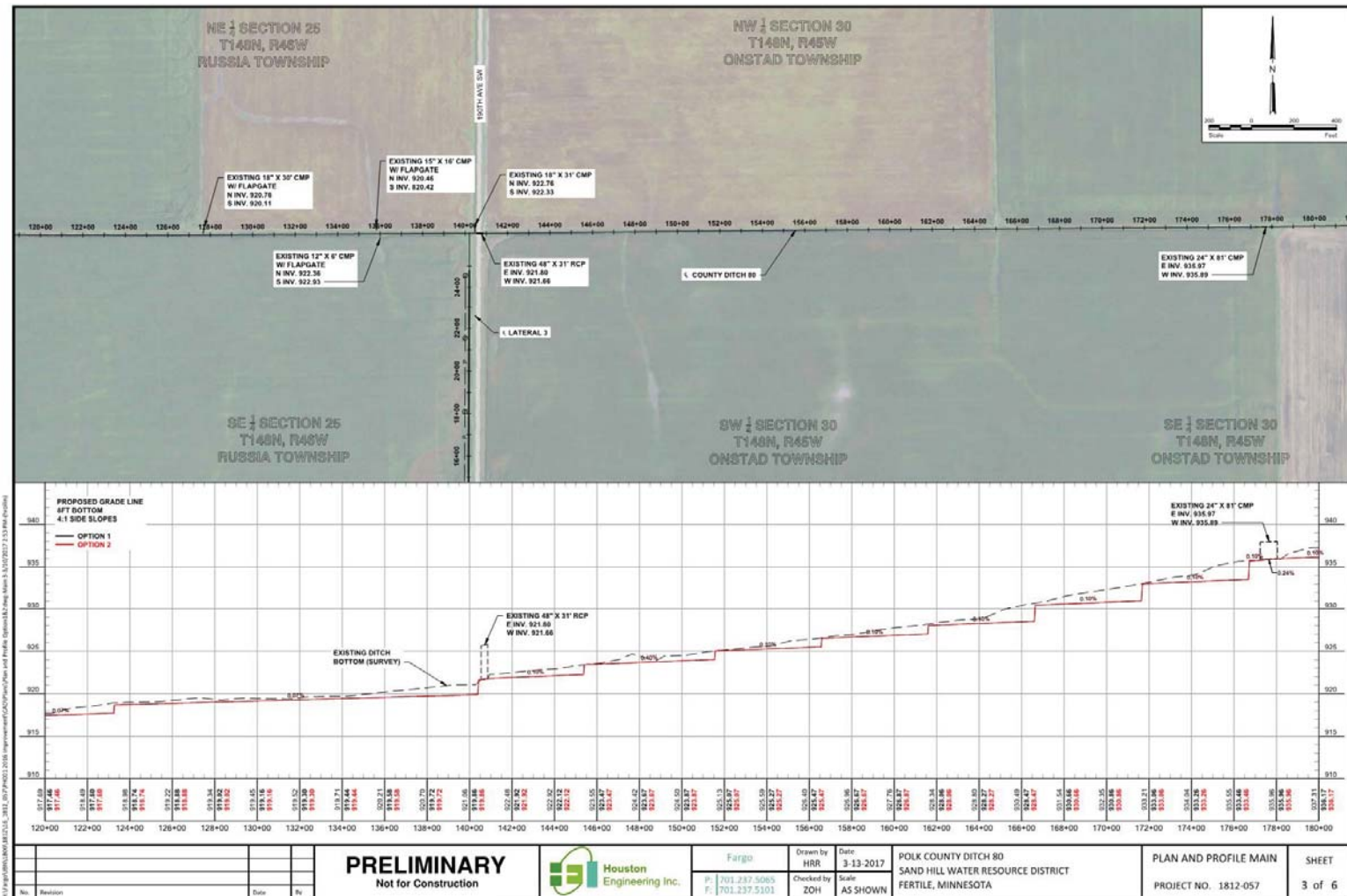
Main

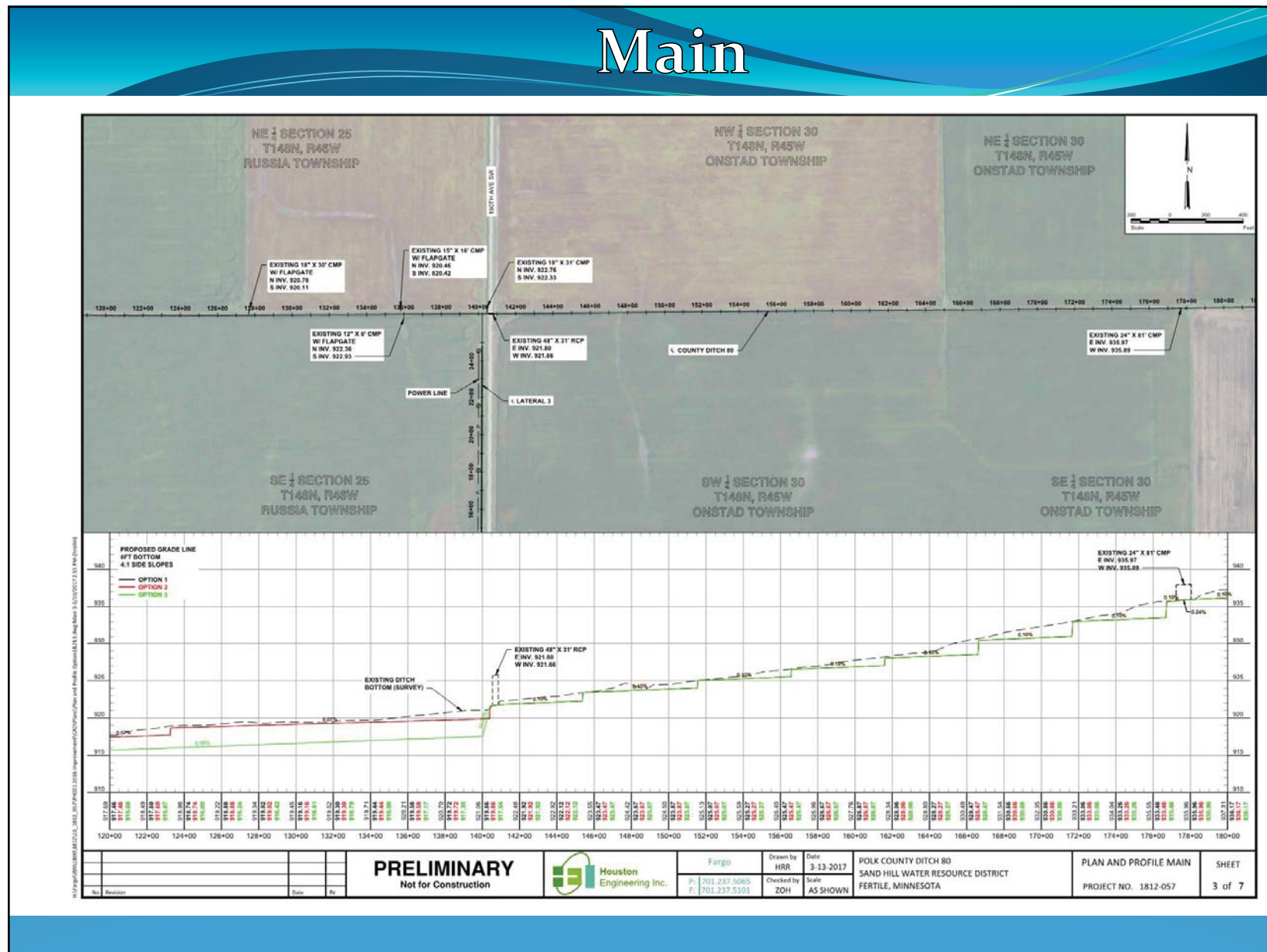


Main

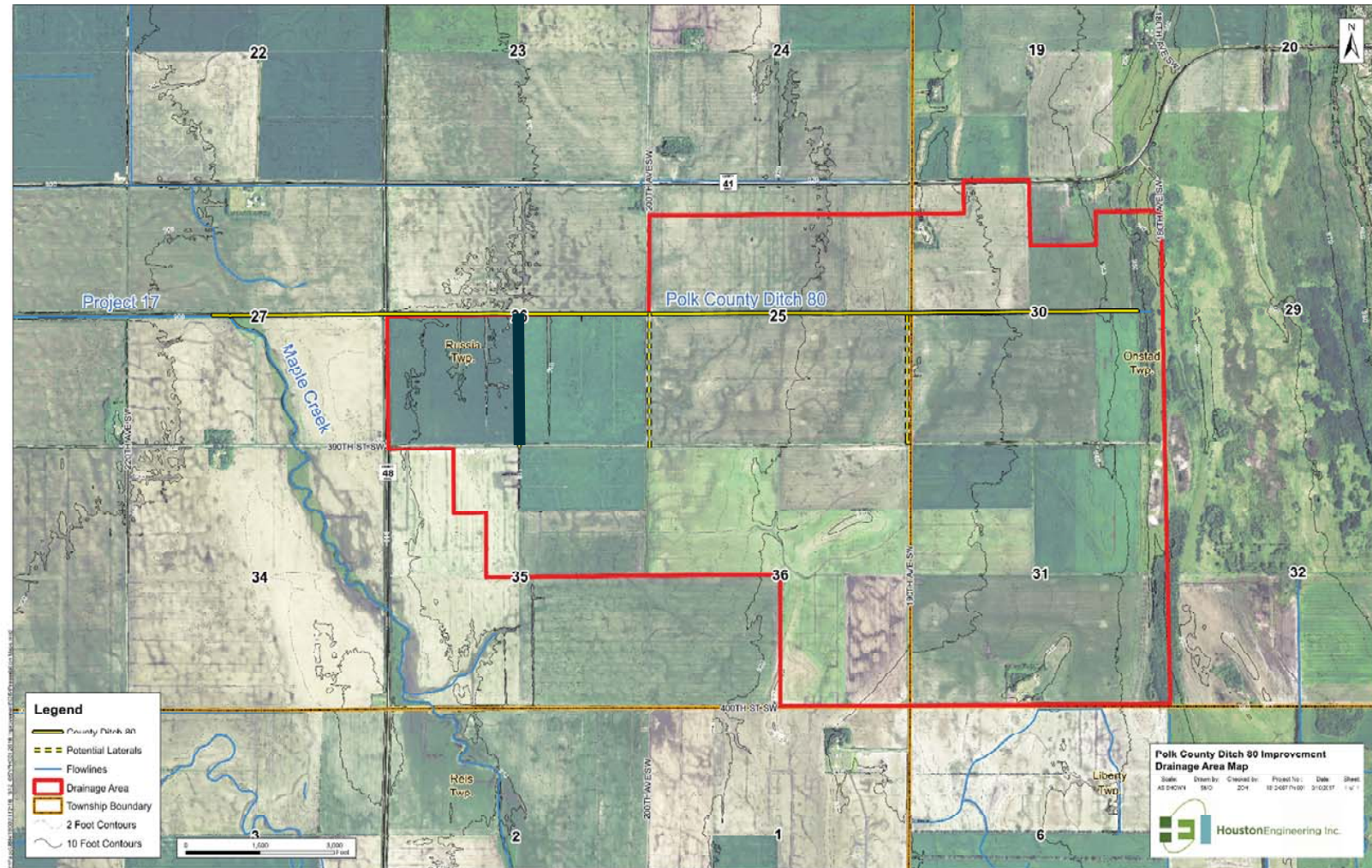


Main

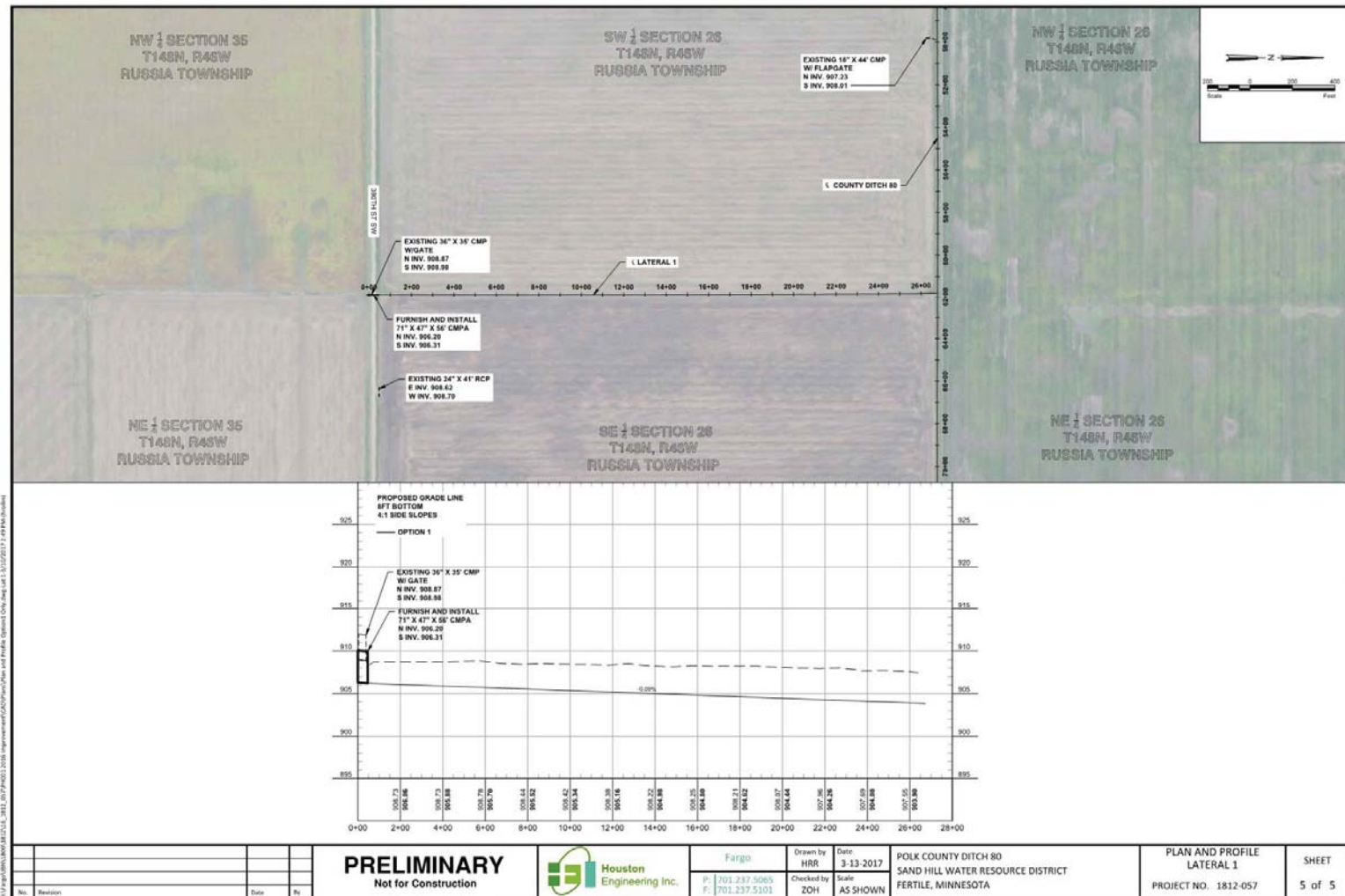


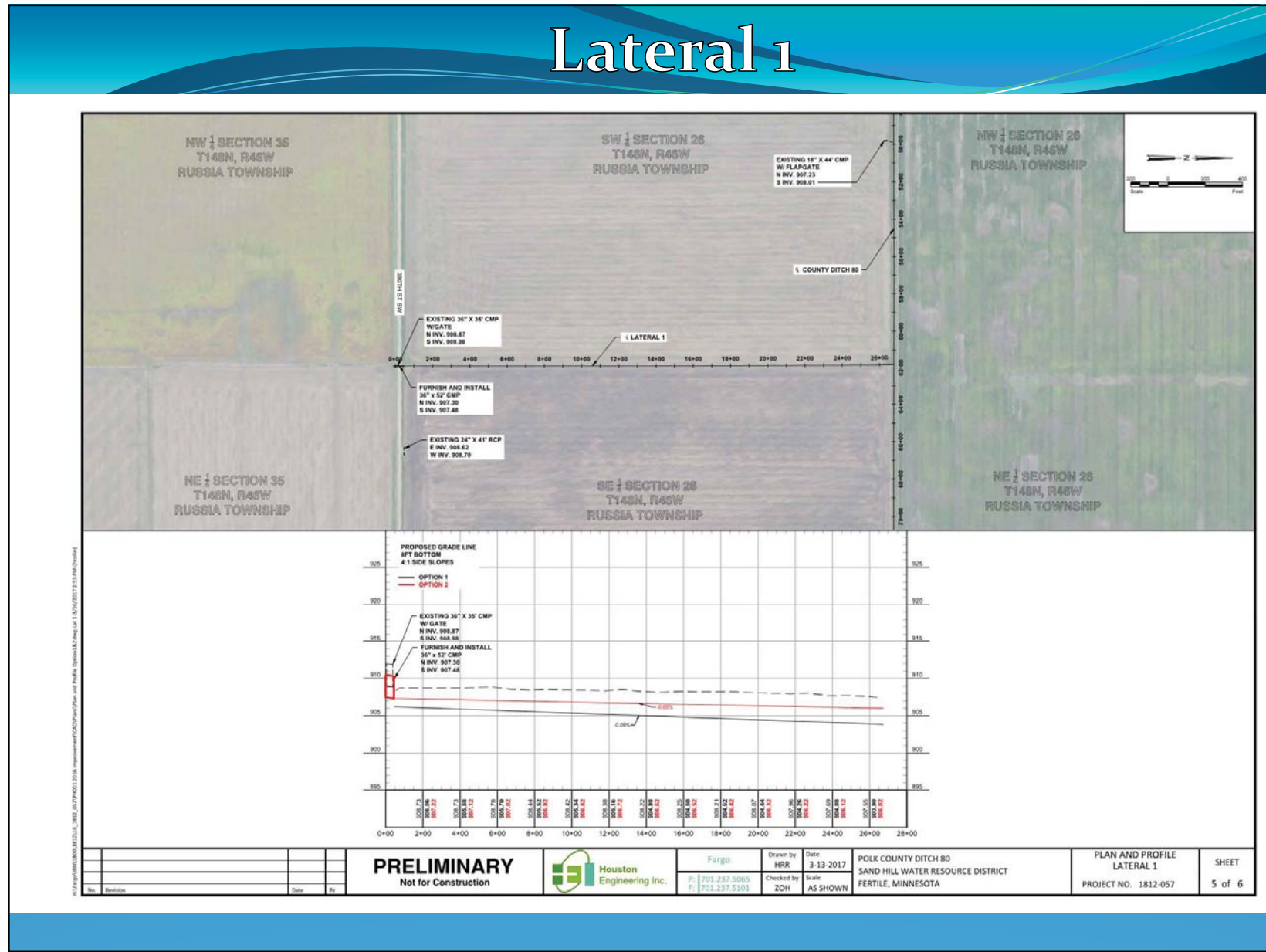


Drainage Area Map

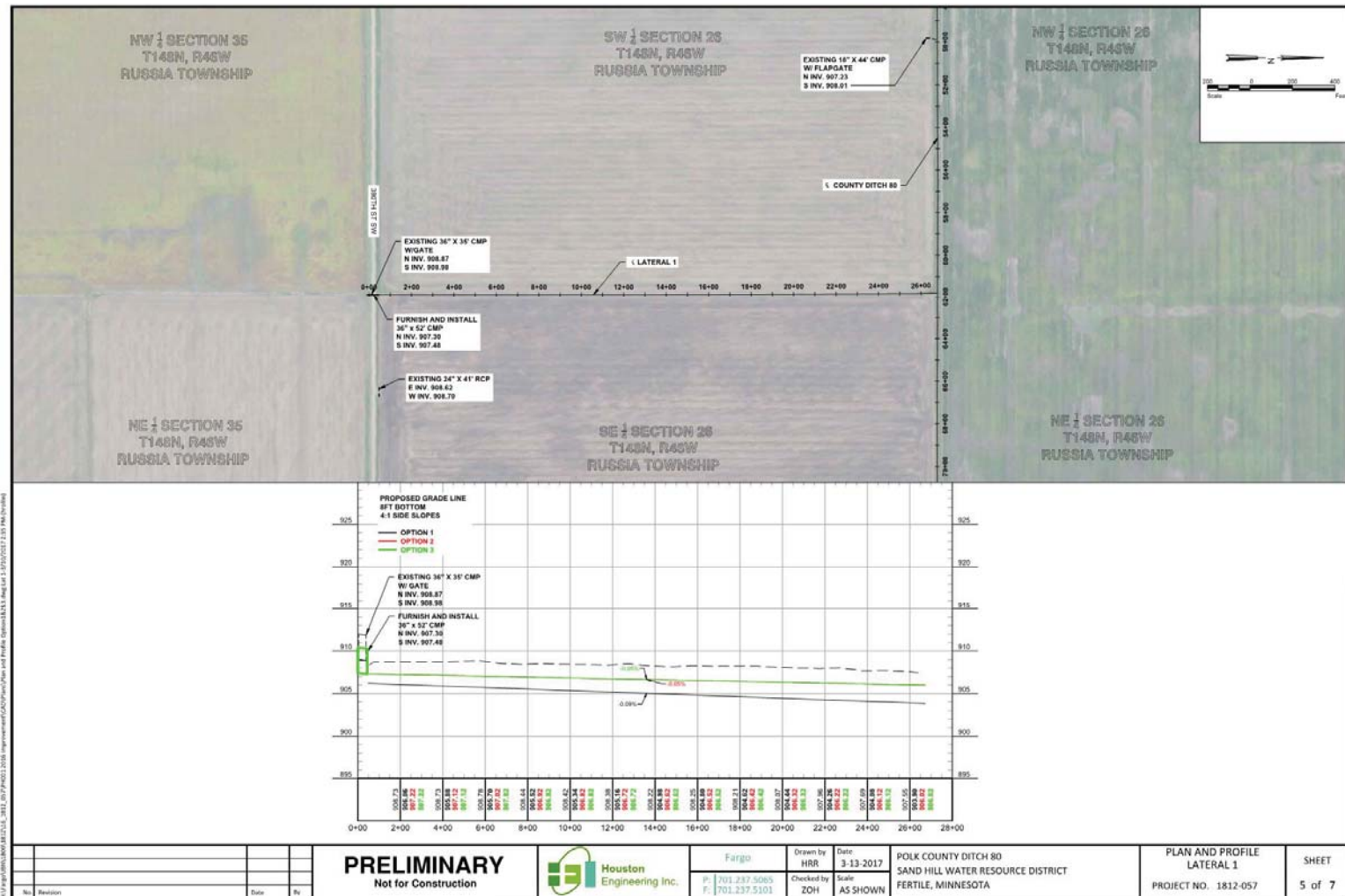


Lateral 1

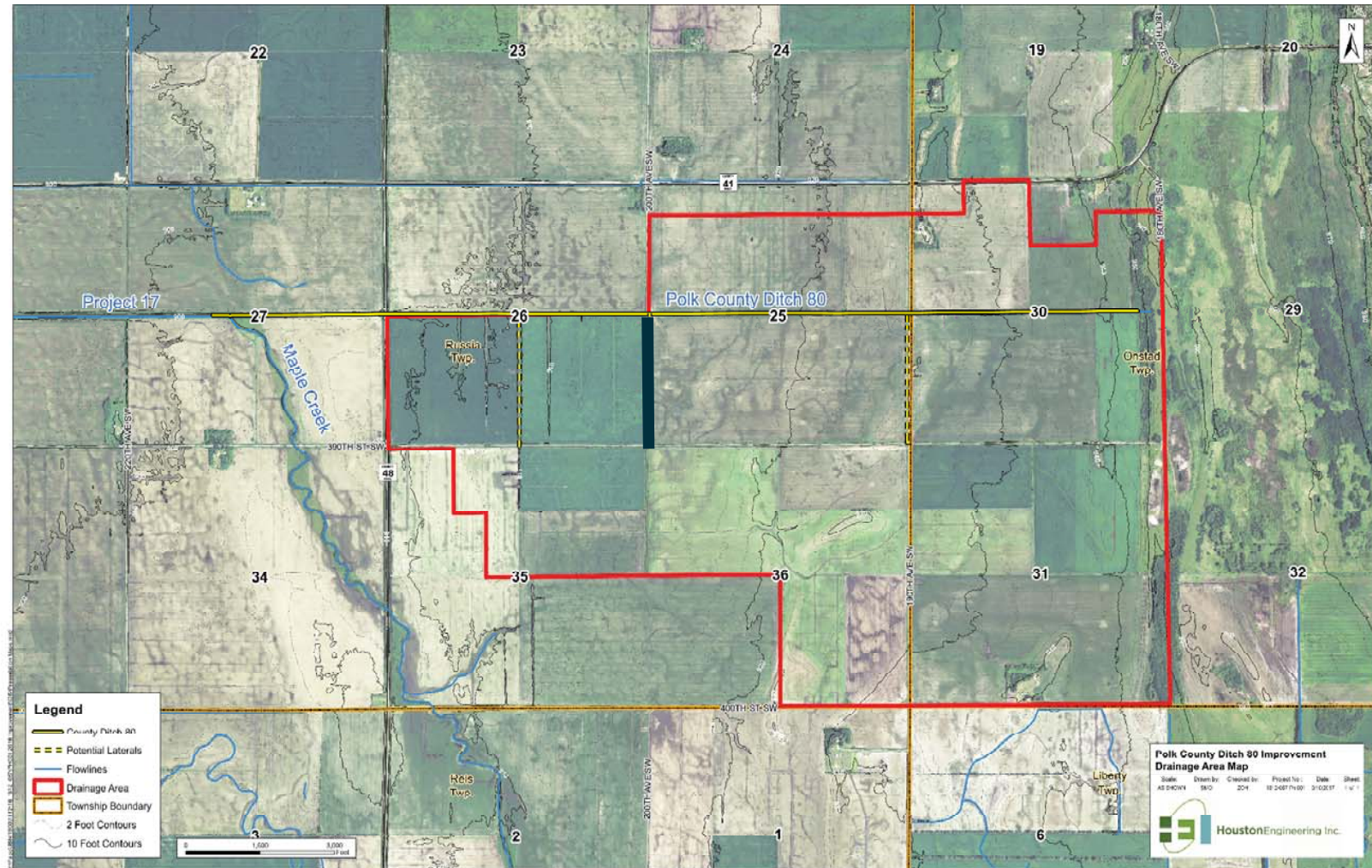




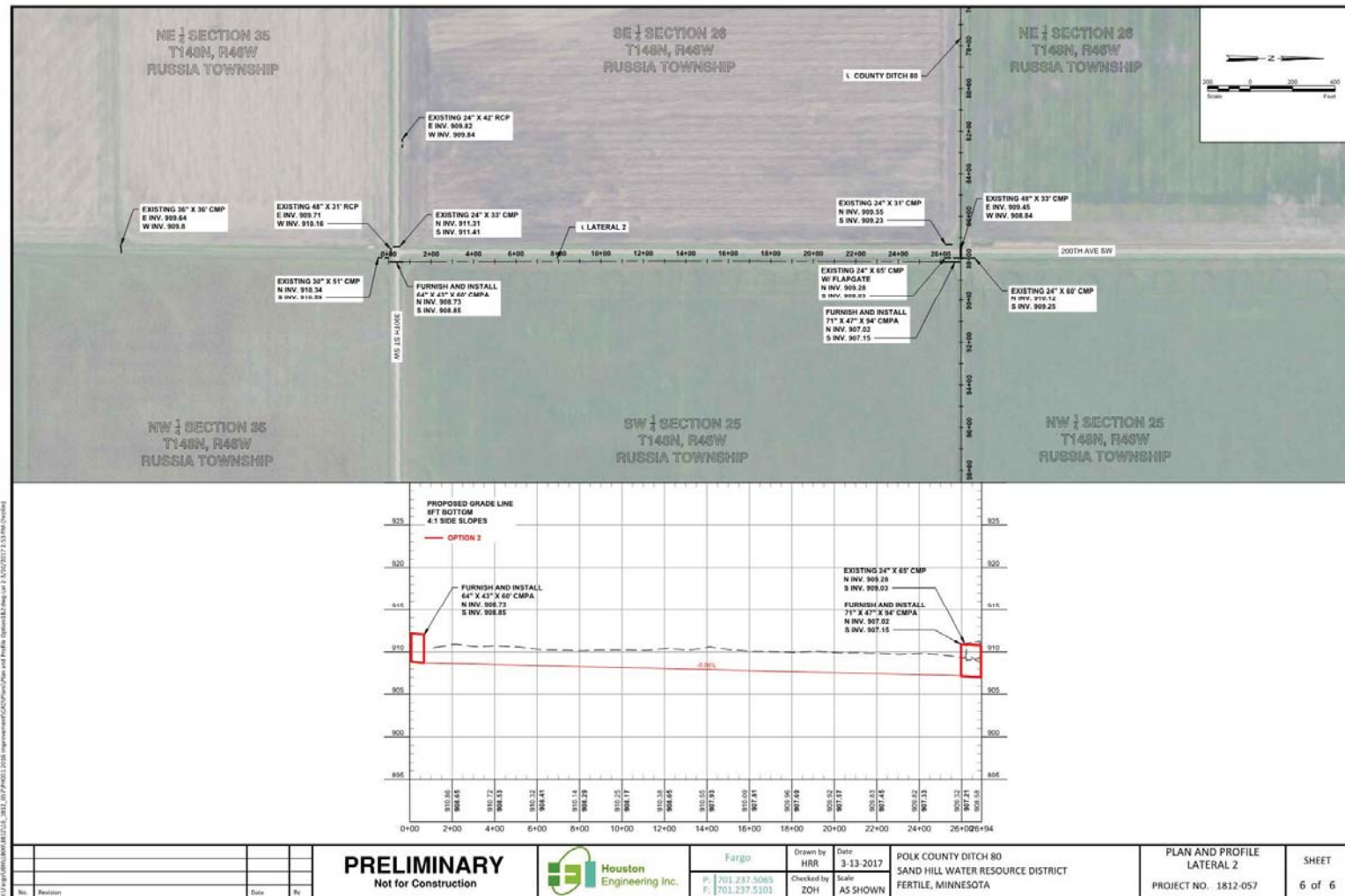
Lateral 1



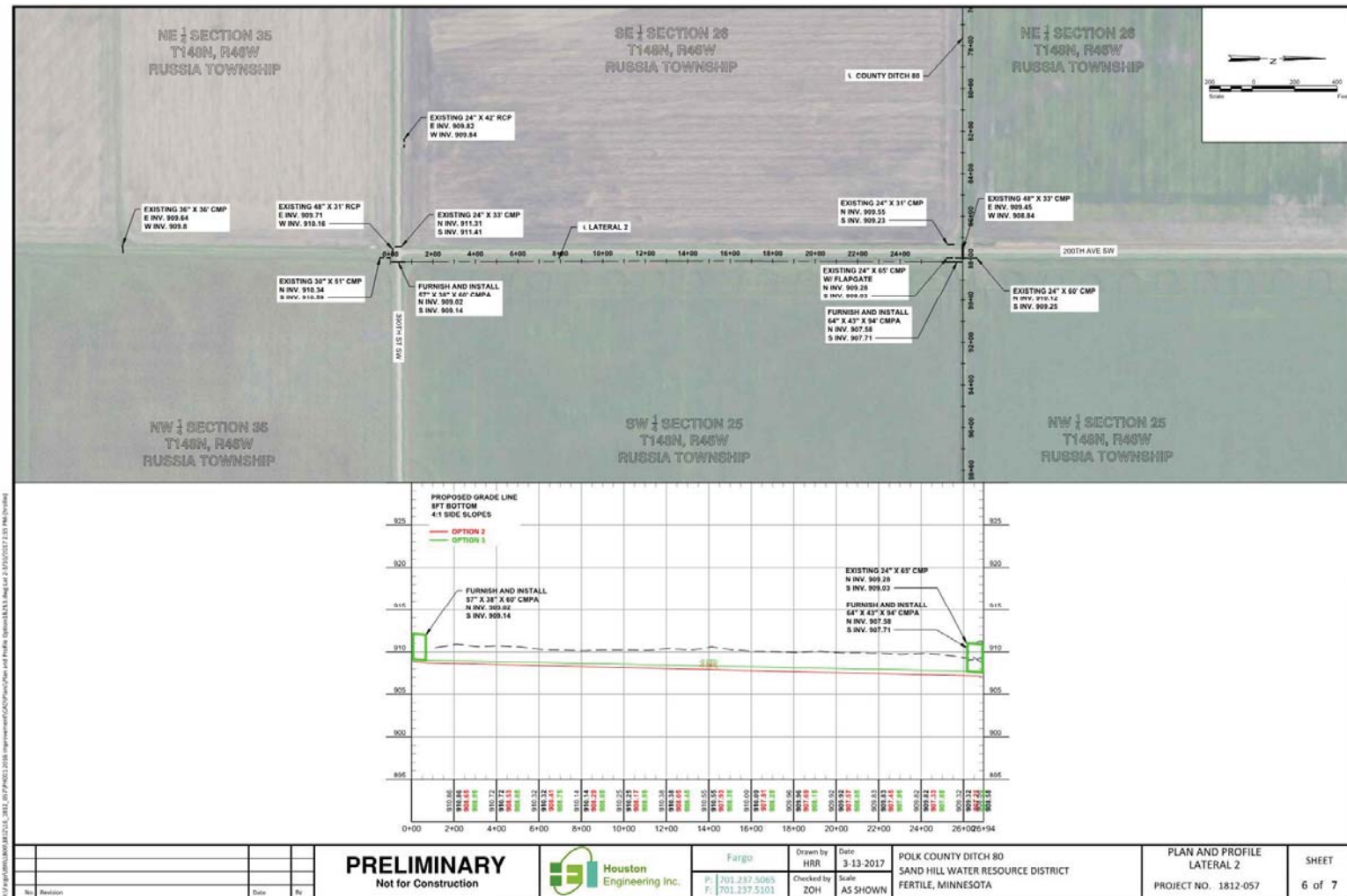
Drainage Area Map



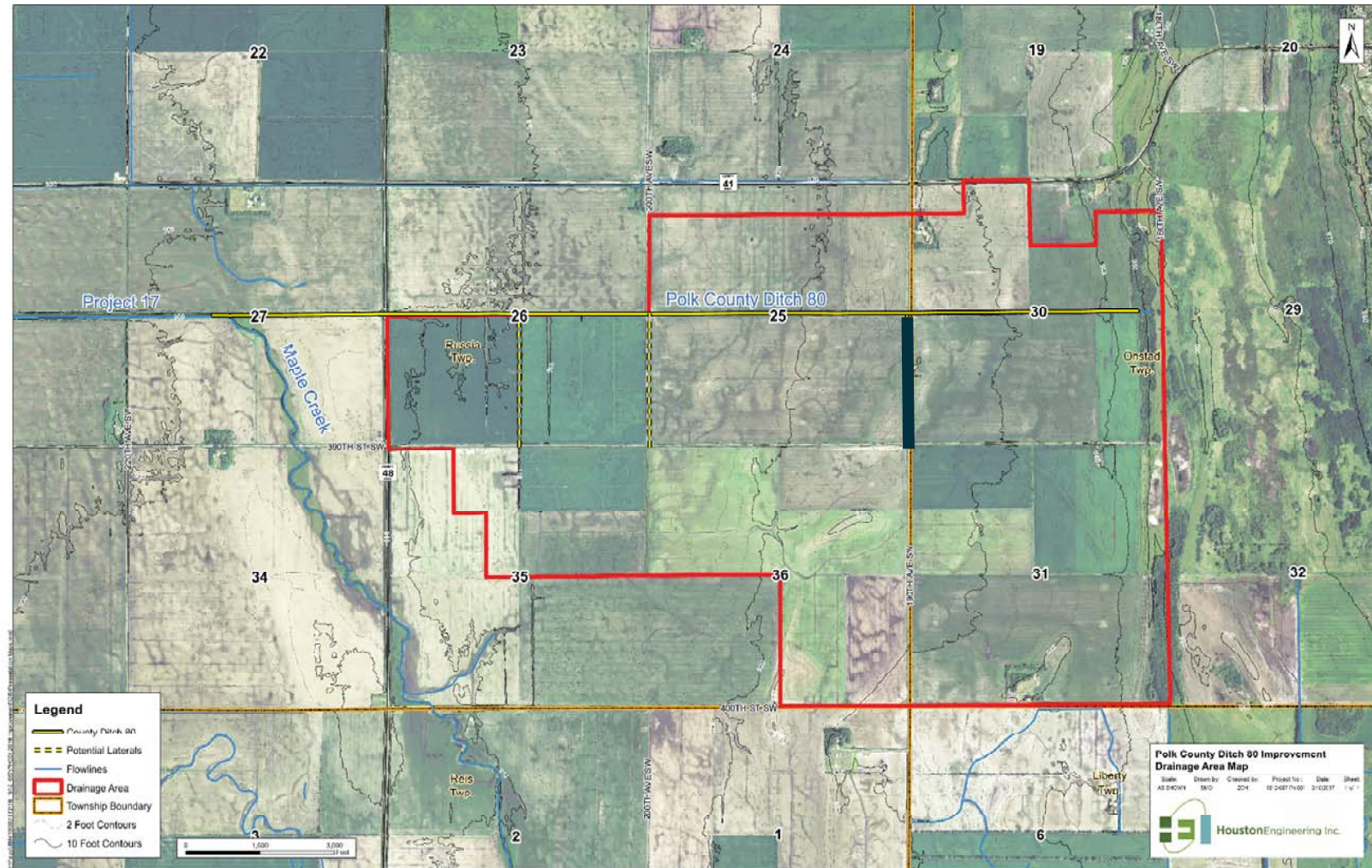
Lateral 2



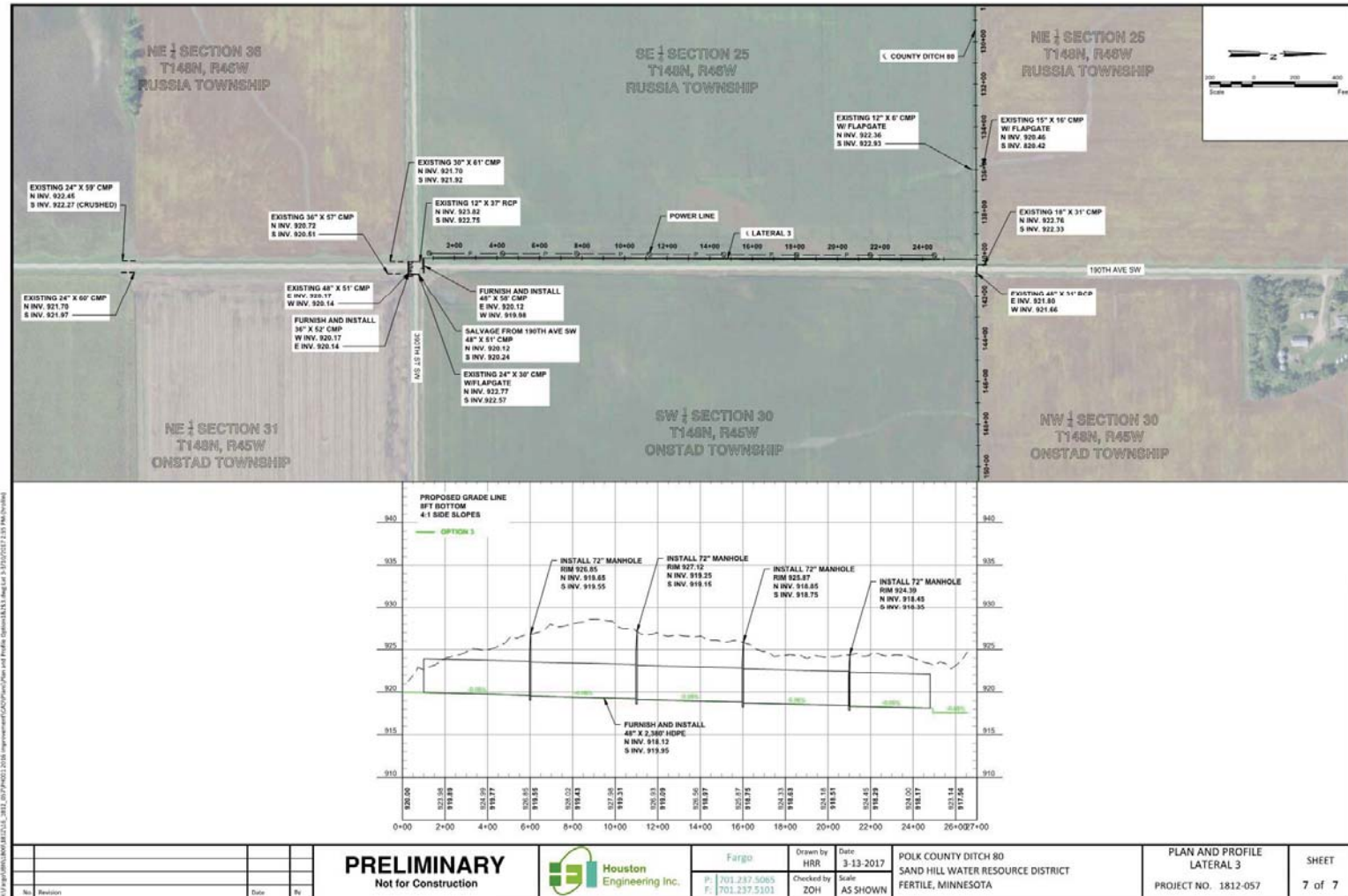
Lateral 2



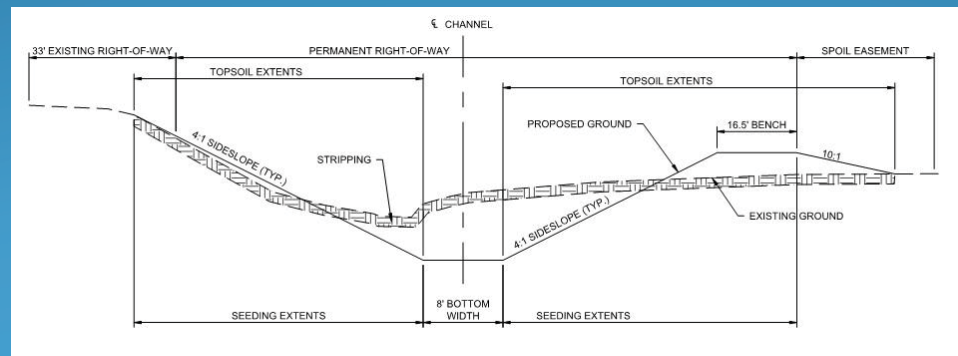
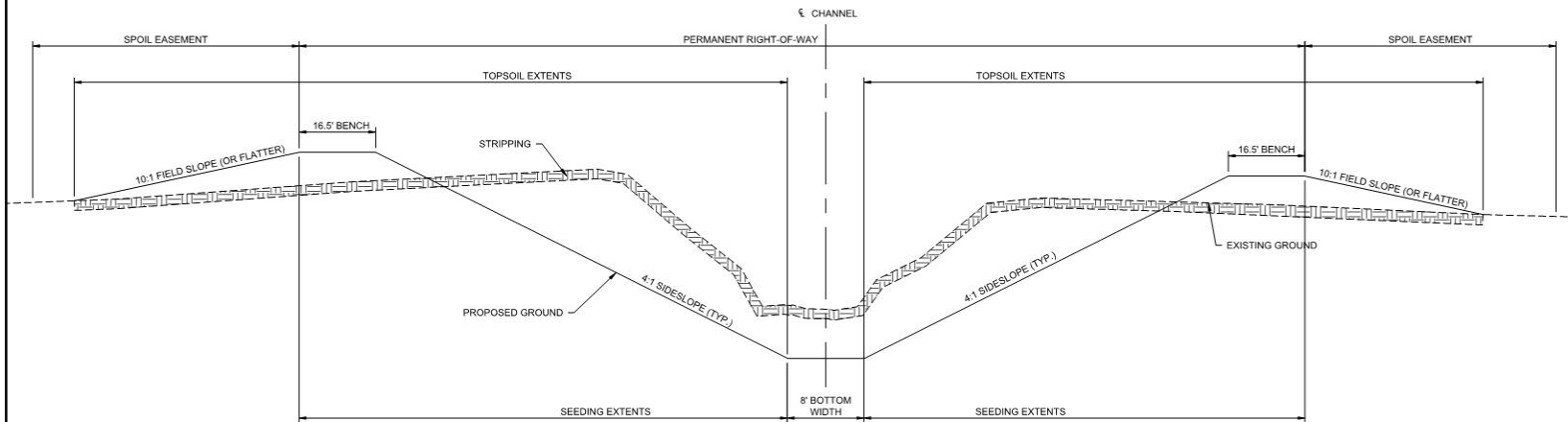
Drainage Area Map



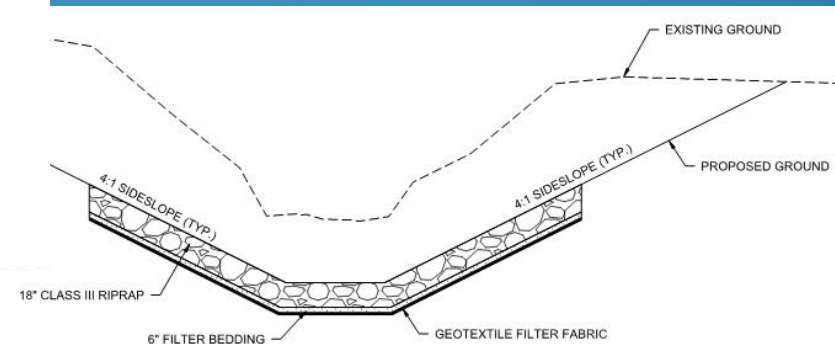
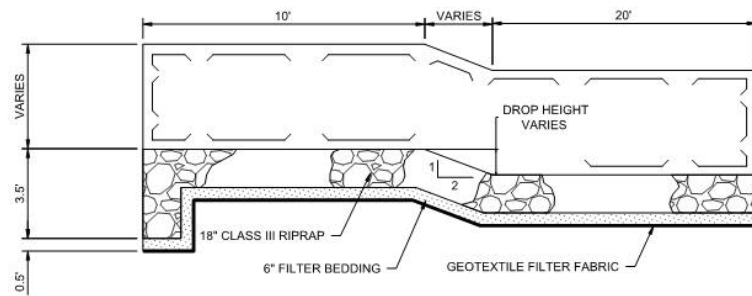
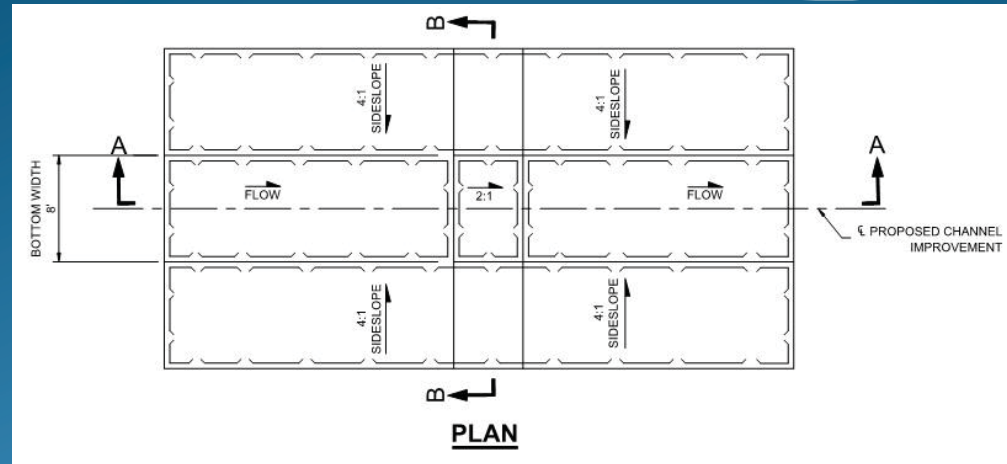
Lateral 3



Typical Sections



Rock Drops



Right-of-Way and Easement

	Additional Right-of-Way (Acres)	Spoil Easement (Acres)
Option 1	44.003	98.548
Option 2	46.430	101.309
Option 3	50.767	109.152

- Right-of-way includes the required 16.5' buffer strip
- Spoil easement will be used for construction of the ditch to allow the contractor to level spoil and have sufficient access to the site

Cost Comparison

	Option 1	Option 2	Option 3
Construction Costs <i>(with 15% Contingency)</i>	\$ 695,298.25	\$ 740,223.50	\$1,156,870.00
Non-Construction Costs <i>(Engineering, Legal, Land Acquisition, Permitting, Etc.)</i>	\$ 301,000.00	\$ 309,600.00	\$ 331,700.00
Total Costs	\$ 996,298.25	\$1,049,823.50	\$1,488,570.00
Multipurpose Drainage Management Grant <i>(BWSR)</i>	\$ 62,929.00	\$ 62,929.00	\$ 62,929.00
Ditch Expense	\$ 933,369.25	\$ 986,894.50	\$1,425,641.00

Discussion