

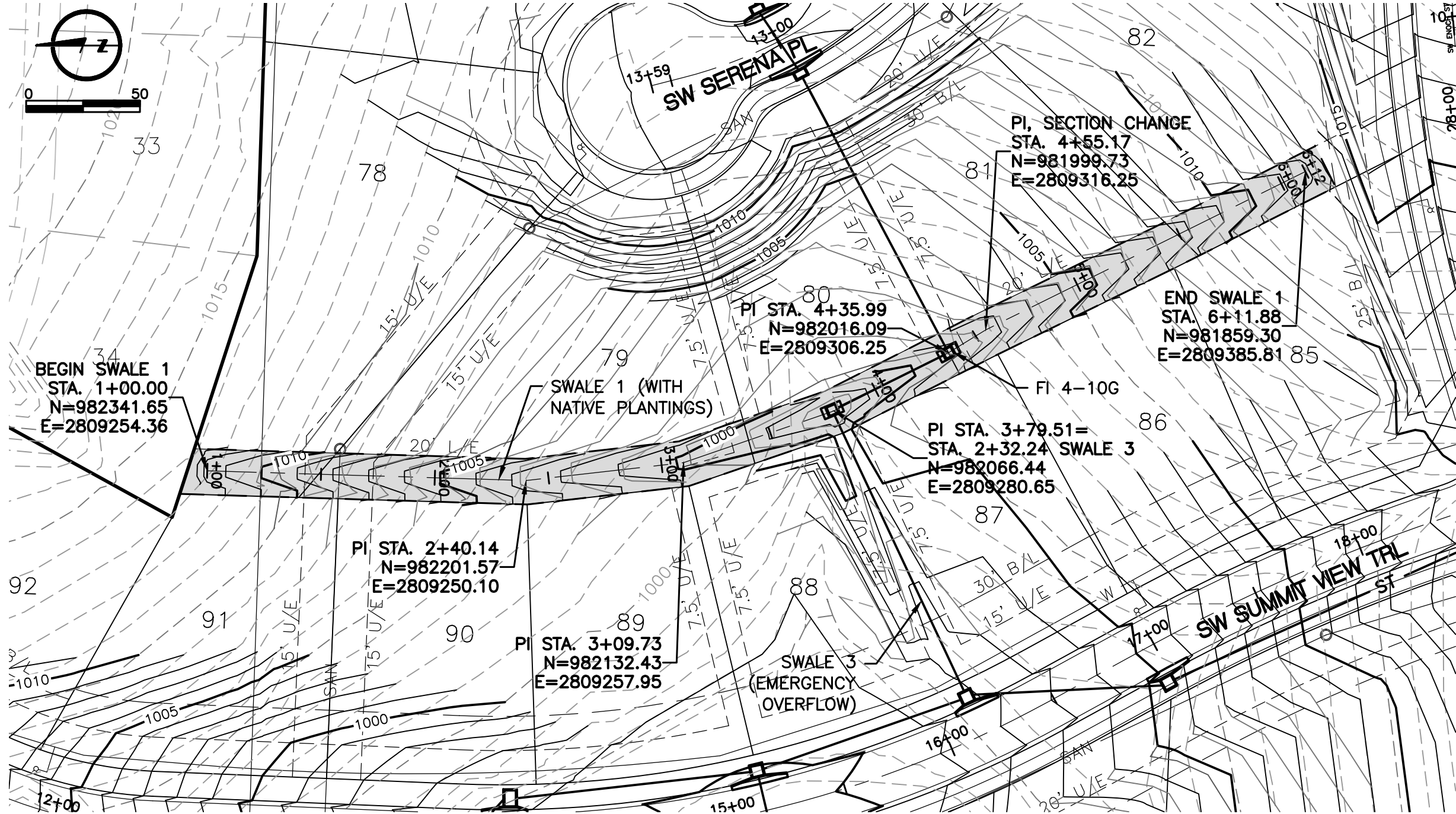
LOT	LOT CORNER	SWALE PROFILE GRADE	AS-GRADED SWALE PROFILE GRADE	1% WATER SURFACE ELEVATION	AS-GRADED 1% WATER SURFACE ELEVATION
78	SOUTH	1008.40	1008.77	1008.53	1008.91
79	NORTH	1008.40	1008.77	1008.53	1008.91
79	SOUTH	999.21	999.06	999.44	999.27
80	NORTH	999.21	999.06	999.44	999.27
80	SOUTH	1000.77	1000.03	1001	1000.24
81	NORTH	1000.77	1000.03	1001	1000.24
81	SOUTH	1007.69	1007.63	1007.84	1007.83
82	NORTH	1007.69	1007.63	1007.84	1007.83
82	END	1011.60	1012.55	1011.83	1012.75
87/88	GRADE BREAK	997.20	999.30	997.90	999.68
87/88	FRONT SETBACK	997.20	997.61*	997.69	997.61

* HOME BUILDER TO MAINTAIN AT LEAST 2% SLOPE

LOT	LOT CORNER	SWALE PROFILE GRADE	AS-GRADED SWALE PROFILE GRADE	1% WATER SURFACE ELEVATION	AS-GRADED 1% WATER SURFACE ELEVATION
96	START	999.40	990.34	999.40	990.42 *
96	SOUTH	988.76	987.93	989.1	988.21
97	NORTH	988.76	987.93	989.1	988.21
97	SOUTH	990.47	990.64	990.01	990.92
98	NORTH	990.47	990.64	990.01	990.92
98	SOUTH	992.10	992.34	992.44	992.61
99	NORTH	992.10	992.34	992.44	992.61
99	SOUTH	993.09	994.12	994.15	994.39
TRACT D	NORTH	993.09	994.12	994.15	994.39
TRACT D	END	999.29	1000.34	999.41	1000.46

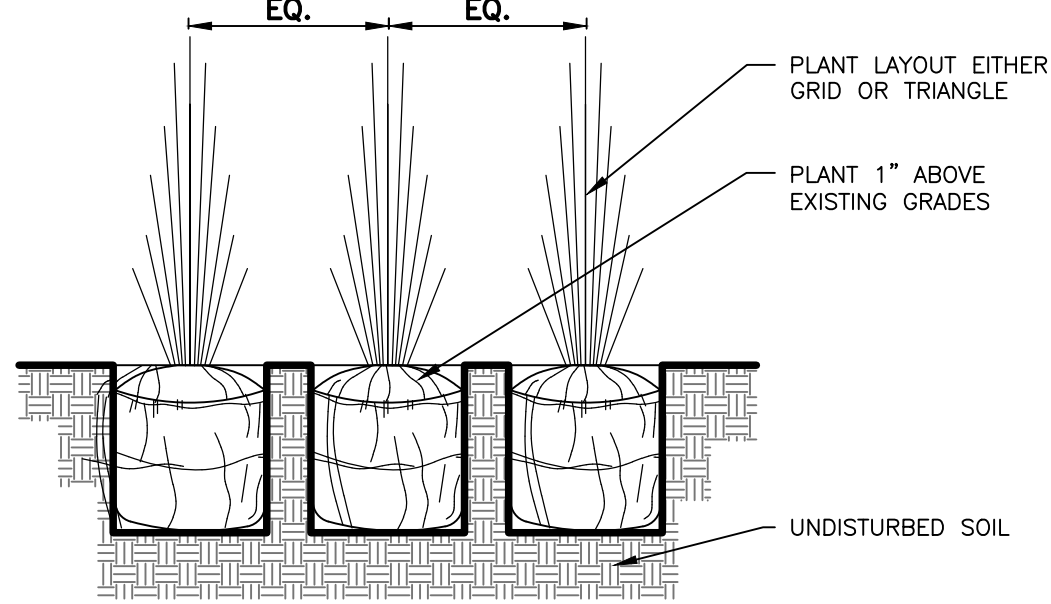
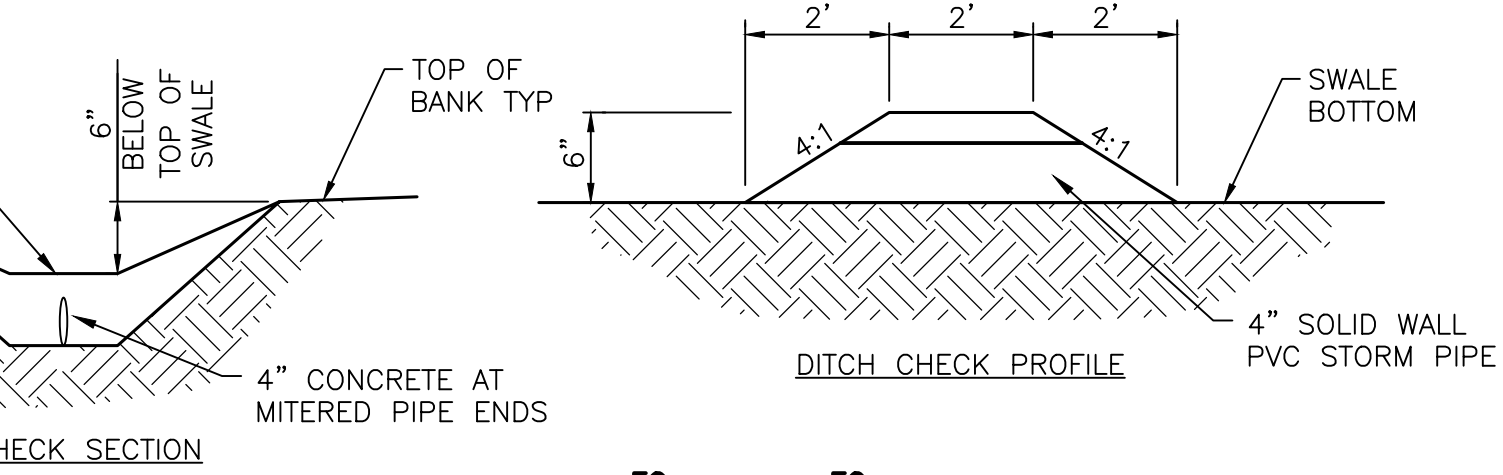
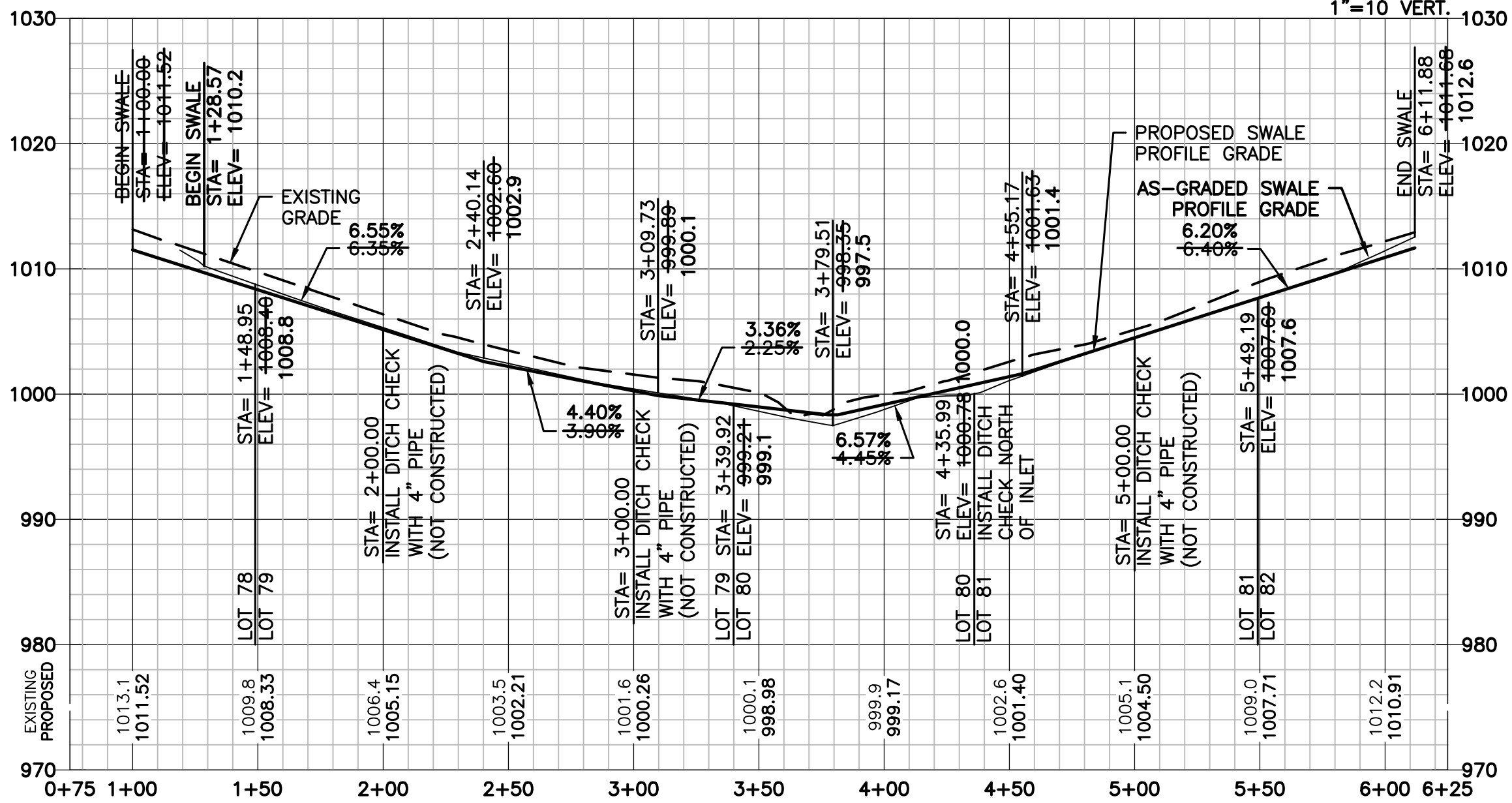
* SWALE ONLY RECEIVES FLOW FROM PORTION OF LOT 96 AT THIS LOCATION; MBOE BASED ON SOUTH LOT LINE FLOW (FROM MULTIPLE UPSTREAM LOTS)

AS-GRADED SWALE TABLE (1% STORM)													
SWALE SECTION DATA						SWALE FLOW DATA							
SWALE	STATION	SWALE SLOPE (FT/FT)	LEFT SIDE SLOPE (H:V)	RIGHT SIDE SLOPE (H:V)	BOTTOM WIDTH (FT)	FLOW (CFS)	DEPTH OF FLOW (FT)	FLOW AREA (SF)	VELOCITY (FPS)	WETTED PERIMETER (FT)	TOP WIDTH (FT)	SPECIFIC ENERGY (FT)	SHEAR STRESS (LBS/SF)
1	2+40.14	0.0655	5:1	5:1	5.00	2.22	0.14	0.80	2.78	6.43	6.40	0.26	0.57
1	3+09.73	0.044	5:1	5:1	5.00	2.85	0.17	1.00	2.87	6.73	6.70	0.30	0.47
1	3+79.51 (N)	0.0336	5:1	5:1	5.00	3.50	0.21	1.27	2.75	7.14	7.10	0.33	0.44
1	3+79.51 (S)	0.0657	5:1	5:1	5.00	4.92	0.21	1.27	3.87	7.14	7.10	0.44	0.86
1	4+55.09	0.062	5:1	5:1	8.00	4.25	0.20	1.20	3.54	7.04	7.00	0.40	0.77
2	1+40.00	0.0511	5:1	5:1	5.00	7.09	0.28	1.79	3.96	7.86	7.80	0.52	0.89
2	3+00.00	0.0223	5:1	5:1	5.00	4.47	0.27	1.72	2.61	7.75	7.70	0.38	0.38
2	4+45.00	0.0477	5:1	5:1	5.00	1.59	0.12	0.67	2.37	6.22	6.20	0.21	0.36
3	1+30.00	0.0219	4:1	4:1	5.00	9.43	0.41	2.72	3.46	8.38	8.28	0.60	0.56
3	2+05.12	0.0219	4:1	4:1	5.00	8.24	0.38	2.48	3.32	8.14	8.04	0.55	0.52



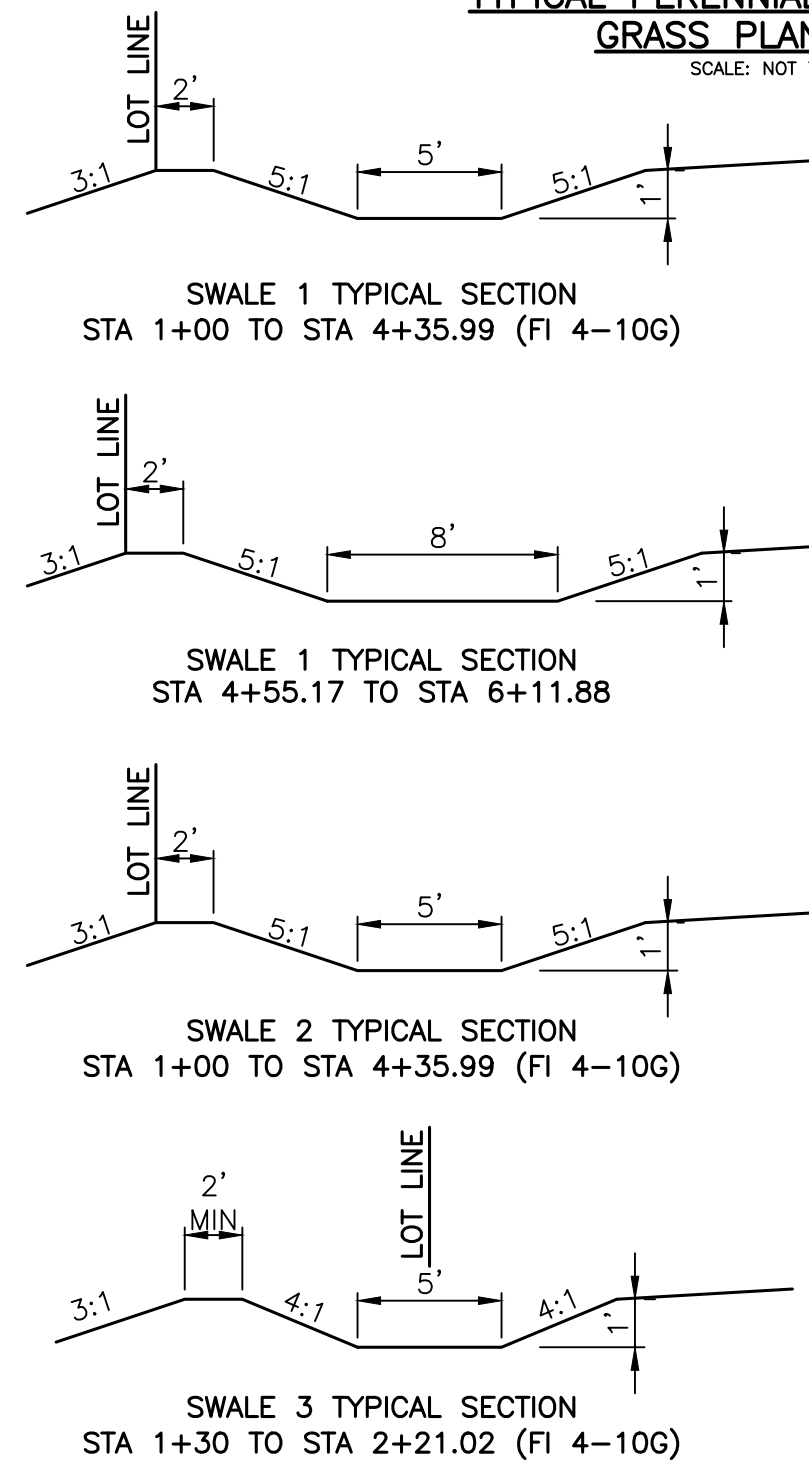
SWALE 1

Scales: 1"=50 HOR.
1"=10 VERT.



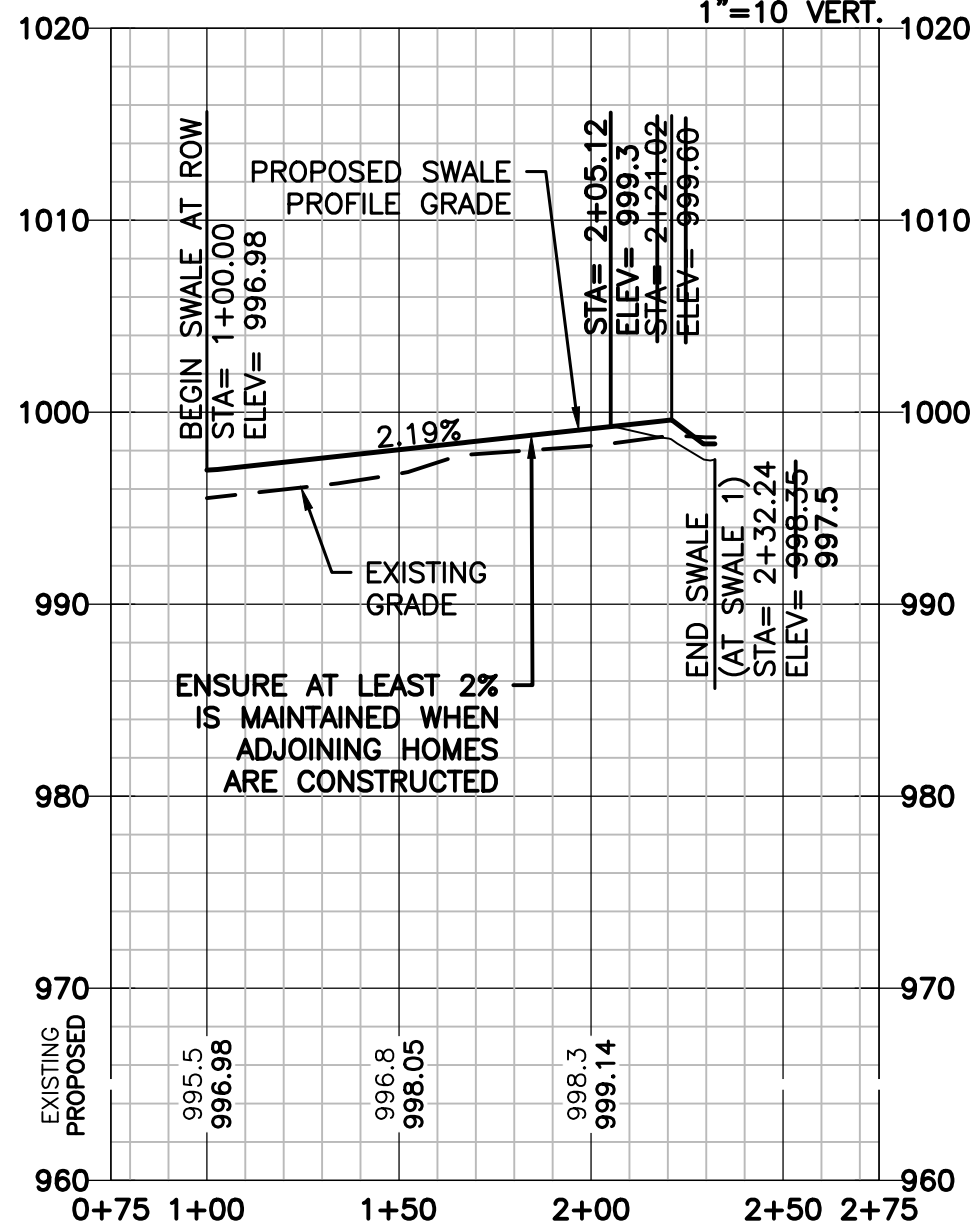
TYPICAL PERENNIAL AND ORNAMENTAL GRASS PLANTING DETAIL

SCALE: NOT TO SCALE



SWALE 3

Scales: 1"=50 HOR.
1"=10 VERT.



PLANT SCHEDULE

NATIVE PLANTINGS

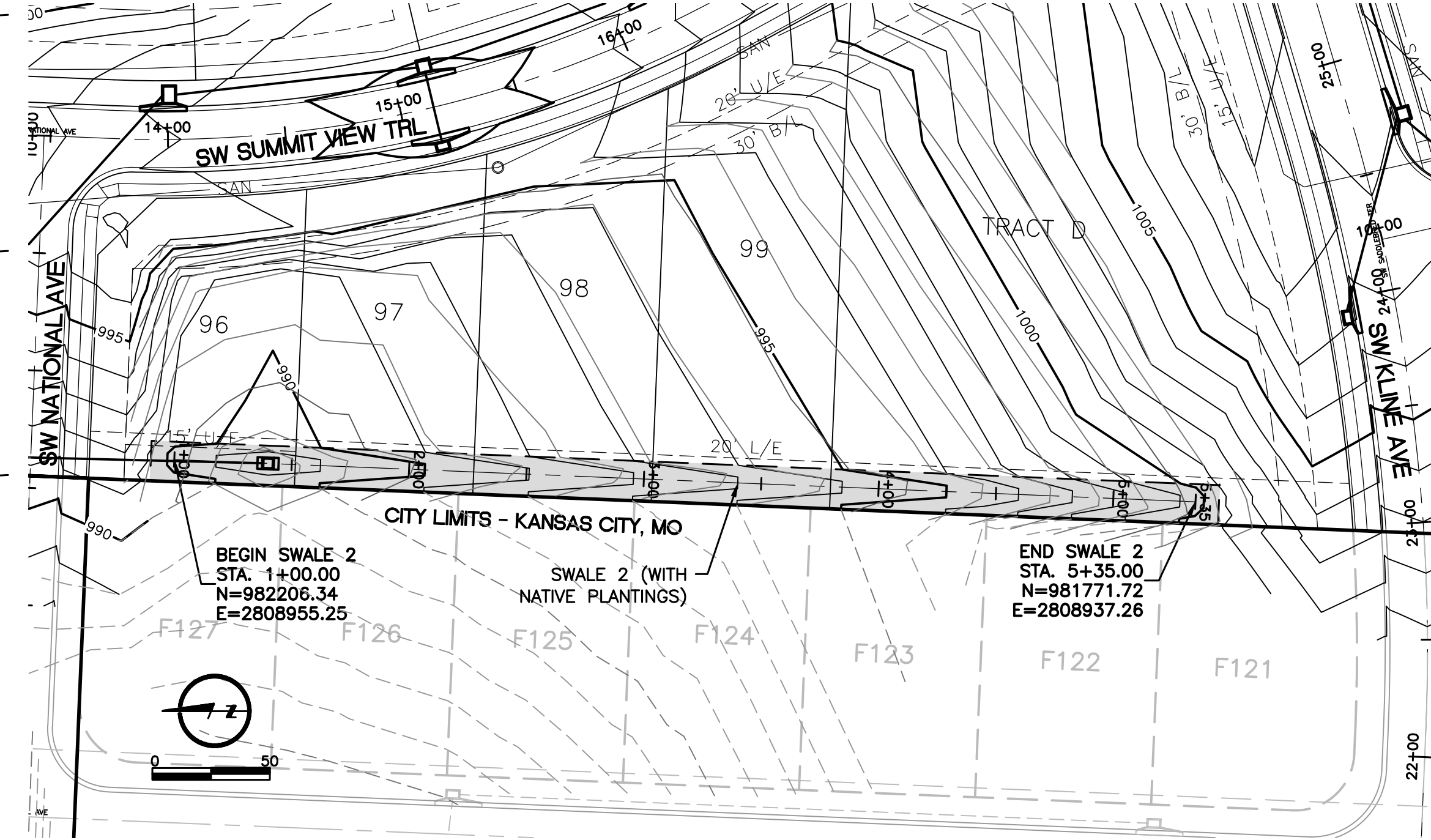
BOTANICAL NAME	COMMON NAME	PLANTING SIZE	SPACING	HEIGHT	WIDTH
CAREX VULPINOIDEA	BROWN FOX SEDGE	DEEP CELL PLUG	18" O.C.	2-3	1-1.5
PANICUM VIRGATUM	SWITCH GRASS	DEEP CELL PLUG	24" O.C.	4-5	2-3
CAREX BROMOIDES	BROME HUMMOCK SEDGE	DEEP CELL PLUG	18" O.C.	0.75-1	1.5-2
ASCLEPIAS INCARNATA	SWAMP MILKWEED	DEEP CELL PLUG	24" O.C.	3-4	2-3

PLANTING NOTES

- EXISTING AND IMPORTED SOIL FOR PLANTING AREAS SHALL BE FREE FROM CHEMICALS, CONSTRUCTION DEBRIS AND TRASH, ROCKS AND OTHER MATERIAL LARGER THAN ONE INCH IN DIAMETER.
- ALL NATIVE PLANTING AREAS SHALL BE SCARIFIED AND RECEIVE CONDITIONED SOILS. COMPLETELY BREAK-UP SOIL TO A MINIMUM DEPTH OF 12".
- APPLY GRANULAR PRE-EMERGENT WEED CONTROL TO AREAS TO RECEIVE AND NON-LAWN ORNAMENTAL PLANTING AFTER INCORPORATING SOIL AMENDMENTS.
- ALL PLANTED AREAS TO BE AMENDED PER AN AGRICULTURAL/SOIL SUITABILITY TEST. ESTIMATE SPREADING SOIL AMENDMENT AT THE RATE OF 6 CUBIC YARDS PER 1,000 SQUARE FEET. TILL INTO THE TOP OF SOIL TO A MINIMUM DEPTH OF 6". RAKE TO A SMOOTH, EVEN SURFACE PER THE GRADING PLANS.

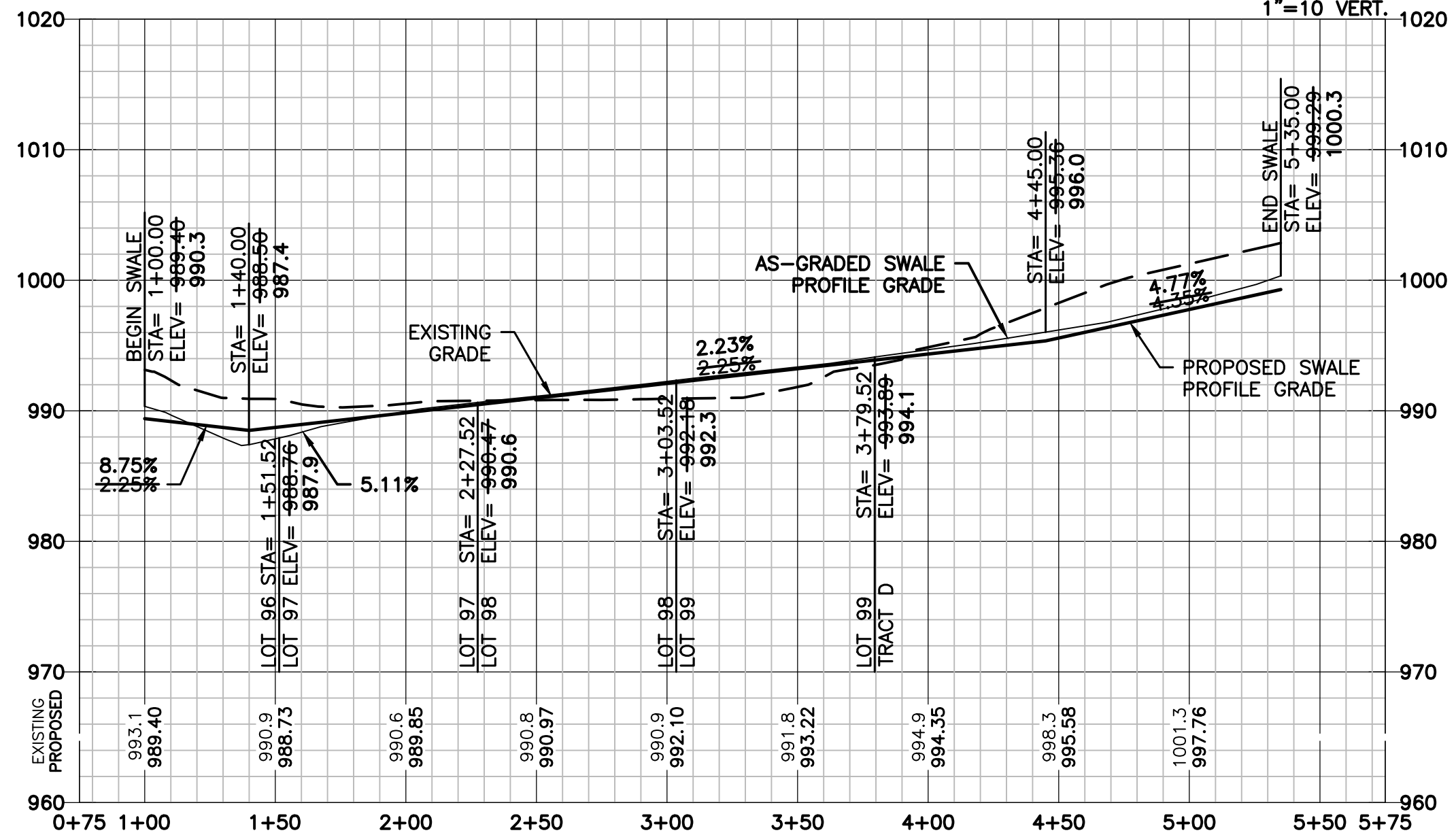
LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- AS-GRADED MAJOR CONTOUR
- AS-GRADED MINOR CONTOUR



SWALE 2

Scales: 1"=50 HOR.
1"=10 VERT.



LAMP RYNEARSON
MO CERT. NO. F01294734

MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS
01/07/2020 PER CITY COMMENTS
03/25/2020 PER CITY COMMENTS
01/24/2022 AS-BUILT

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LAMP RYNEARSON

SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS

SWALE PLAN/PROFILE

DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
PROJECT NUMBER
0318050.02
BOOK AND PAGE

SHEET