

Storm Drainage Calculations

PRESERVE AT JONES DAIRY CENTRAL Rolesville, North Carolina

September 16, 2022

Revised December 12, 2022

Revised January 24, 2023

Revised May 3, 2023

Revised January 19, 2024



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Storm Drainage Calculations

January 19, 2024

Preserve at Jones Dairy Central

INTRODUCTION

This report presents the storm drainage design for the proposed improvements at the Preserve at Jones Dairy North project located on parcels bounded by Jones Dairy Road and Averette Road in Rolesville, North Carolina.

BACKGROUND

The Preserve at Jones Dairy Central project is comprised of approximately 88.6 acres of land that is currently undeveloped. At full build-out, the proposed subdivision will consist of 260 single family lots and 179 townhome units. Water and sewer services will be provided by the City of Raleigh. The proposed subdivision will have two stormwater control measures (SCMs) that will meet Town and State requirements for stormwater quality. All roads will be Town maintained roads. The proposed roads will utilize storm sewer piping to convey runoff to the SCM.

METHODOLOGY

General

All calculations were performed in accordance with NCDOT requirements including those in the Guidelines for Drainage Studies (1999 Edition).

Runoff

Peak flow runoff rates were calculated using the Rational Formula. Rational runoff coefficients were determined for each inlet based on generalized land use conditions encountered for this project. A minimum time of concentration equal to 10 minutes was used for each inlet due to the relatively small drainage area for each inlet. Rainfall intensities were based on the time of concentration to the inlet.

Storm Drainage Piping

Storm sewer pipes were designed for the 10-year storm using Hydrology Studio/Stormwater Studio. The primary computational methodologies by the software are methods described in FHWA HEC-22. Runoff to each inlet was determined by the rational method. The minimum pipe size for this project is 15 inches.

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Preserve at Jones Dairy Central

Inlets and Gutter Spread

Gutter spread for this project was calculated by Hydrology Studio/Stormwater Studio which follows the methodology of FHWA HEC-22. The 4 inch per hour storm was used to calculate the runoff to each inlet. Inlet data used in the software was based on NCDOT frames/grates/hoods shown in NCDOT detail 840.03. The desirable gutter spread was limited to one half of a travel lane.

Pipe Hydraulic Grade Line

The hydraulic grade line (HGL) for this project was calculated by Hydrology Studio/Stormwater Studio which uses the energy-based Standard Step method. The storm systems were designed to maintain the HGL within the pipe for the 10-year storm.

APPENDICES

Appendix A – Drainage Area Map

Appendix B – Storm Sewer and Runoff Calculations

Appendix C – Storm Sewer HGL Calculations

Appendix D – Storm Sewer Gutter Spread Calculations

APPENDIX A – DRAINAGE AREA MAPS

CLIENT:
PRESERVE AT JONES DAIRY

REVISIONS

PRESERVE AT JONES DAIRY CENTRAL
ROLESVILLE, NC

STORM SEWER DA MAP - NORTH

1/19/2024

PROJECT NO:

DESIGN BY:
JPE

DRAWN BY:
JPE

SCALE:
1"=200'

DATE:
2024-01-19

SHEET NO:
SD1.1

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



100 0 50 100 200

SCALE: 1"=100'

SD1.1

CLIENT:

REVISIONS

PRESERVE AT JONES DAIRY CENTRAL
ROLESVILLE, NC

STORM SEWER DA MAP - SOUTH

PROJECT NO:

DESIGN BY:

DRAWN BY:

SCALE:

DATE:

SHEET NO:

SD1.2

1/19/2024

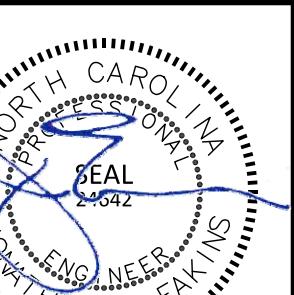
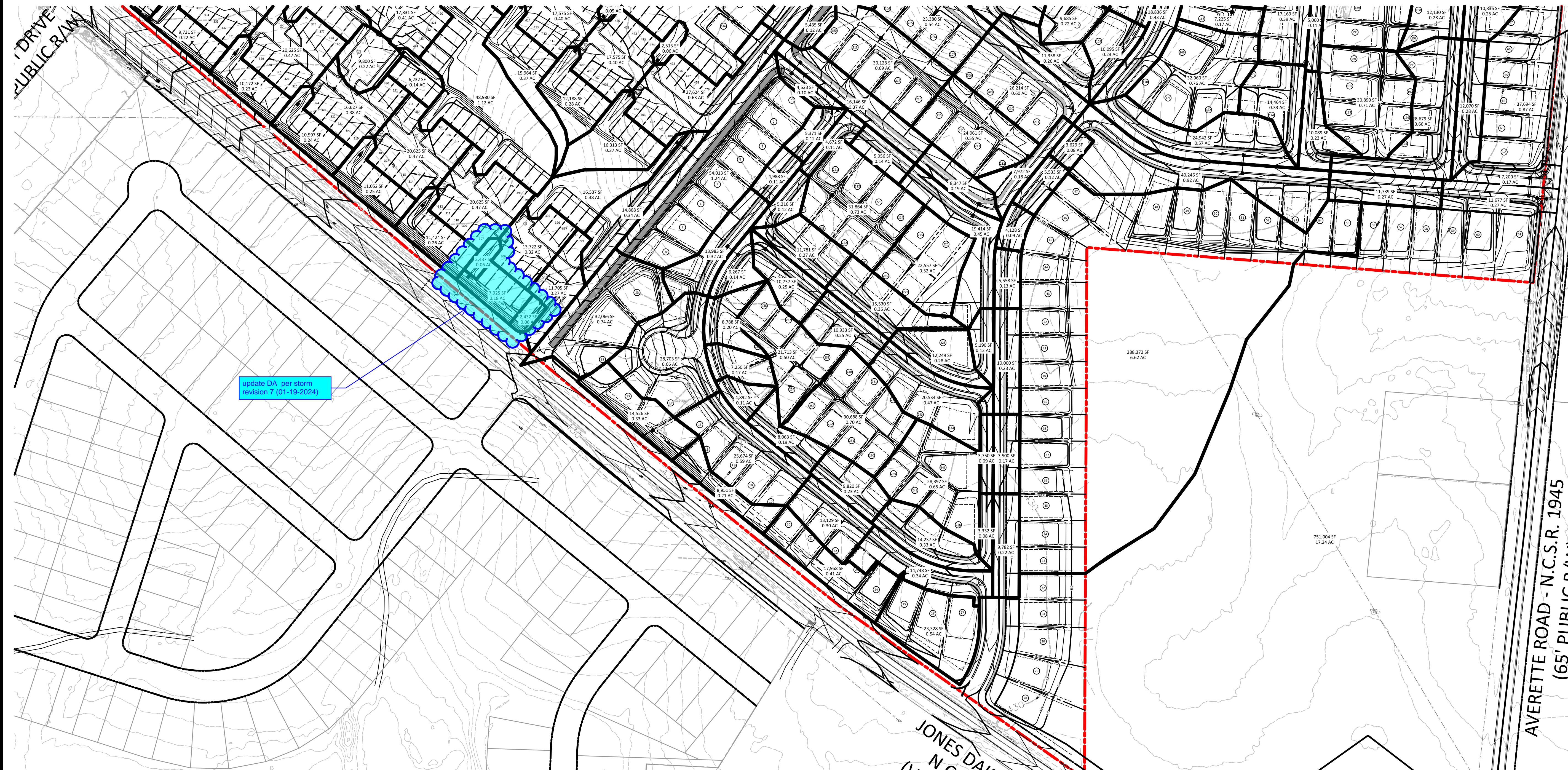


**AVERETTE ROAD - N.C.S.R. 1945
(65' PUBLIC R/W)**

100 0 50 100 200

SCALE: 1"=100'

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



1/19/2024

PROJECT NO:

DESIGN BY:

DRAWN BY:

SCALE:

DATE:

SHEET NO:

SD1.2

APPENDIX B – STORM SEWER AND RUNOFF CALCULATIONS

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		Rationa		C x A		Tc		Intensity		Capacity		Velocity		Line		Invert Elev		HGL Elev		Surface Elev		Line No	
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)	Total (in)	(in/hr)	Total (cfs)	(cfs)	Inlet (ft/s)	(ft/s)	Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)
101 TO 100	50.86	0.070	54.968	0.80	0.06	34.86	5.0	11.04	5.54	193.00	242.20	11.04	66	0.52	388.18	387.92	391.99	391.70	399.63	399.00	1				
102 TO 101	33.94	0.080	28.822	0.80	0.06	17.75	5.0	10.97	5.55	98.51	101.66	9.08	48	0.50	389.85	389.68	393.06	392.91	399.63	399.63	2				
103 TO 102	47.52	0.180	14.772	0.70	0.13	9.92	5.0	10.91	5.56	55.18	142.25	9.35	42	2.00	391.40	390.45	393.67	392.35	398.55	399.63	3				
104 TO 103	50.84	0.170	14.202	0.70	0.12	9.52	5.0	10.86	5.57	53.05	140.93	11.34	36	4.47	394.17	391.90	396.49	393.52	399.27	398.55	4				
105 TO 104	89.94	0.250	14.032	0.70	0.18	9.40	5.0	10.71	5.60	52.66	66.72	9.36	36	1.00	395.17	394.27	397.48	396.42	401.19	399.27	5				
106 TO 105	34.00	0.360	13.782	0.70	0.25	9.23	5.0	10.66	5.61	51.78	66.69	9.10	36	1.00	395.61	395.27	397.90	397.48	401.19	401.19	6				
107 TO 106	145.41	0.140	13.422	0.70	0.10	8.98	5.0	10.45	5.65	50.74	81.66	9.92	36	1.50	397.89	395.71	400.16	397.57	404.22	401.19	7				
108 TO 107	74.23	0.320	12.612	0.70	0.22	8.41	5.0	10.32	5.68	47.75	66.59	8.94	36	1.00	399.59	398.85	401.79	400.90	406.08	404.22	8				
109 TO 108	184.76	0.300	12.292	0.07	0.02	8.19	5.0	10.00	5.74	47.00	66.74	7.92	36	1.00	401.54	399.69	403.73	402.25	411.62	406.08	9				
110 TO 109	34.00	0.590	11.992	0.70	0.41	8.17	5.0	9.95	5.75	46.97	66.69	7.96	36	1.00	401.98	401.64	404.16	404.17	411.62	411.62	10				
111 TO 110	90.18	0.100	11.402	0.70	0.07	7.75	5.0	9.79	5.79	44.85	66.63	8.76	36	1.00	402.98	402.08	405.11	404.04	414.50	426.00	11				
112 TO 111	105.17	0.100	11.302	0.70	0.07	7.68	5.0	9.61	5.82	44.74	66.64	8.80	36	1.00	404.13	403.08	406.26	405.02	418.20	414.50	12				
113 TO 112	216.59	0.001	10.902	0.80	0.00	7.40	5.0	9.23	5.91	43.72	63.28	7.58	36	0.90	406.18	404.23	408.29	406.74	419.06	418.20	13				
114 TO 113	63.55	0.100	10.901	0.70	0.07	7.40	5.0	9.12	5.93	43.90	66.41	7.66	36	0.99	406.91	406.28	409.02	408.74	419.05	419.06	14				
115 TO 114	111.55	0.001	10.431	0.80	0.00	7.07	5.0	8.93	5.97	42.25	66.83	7.39	36	1.00	408.13	407.01	410.20	409.53	422.70	419.05	15				
116 TO 115	58.94	0.140	0.140	0.70	0.10	0.10	5.0	5.00	7.04	0.69	6.46	2.96	15	1.00	416.70	416.11	417.03	416.39	425.37	422.70	16				
117 TO 115	117.30	0.120	10.290	0.70	0.08	6.97	5.0	8.72	6.02	41.98	66.61	7.45	36	1.00	409.40	408.23	411.47	410.68	422.30	422.70	17				
118 TO 117	100.00	0.110	8.810	0.70	0.08	6.00	5.0	8.55	6.06	36.36	41.01	8.81	30	1.00	410.90	409.90	412.92	411.81	421.30	422.30	18				
119 TO 118	29.33	0.120	8.700	0.70	0.08	5.92	5.0	8.49	6.07	35.97	40.78	8.15	30	0.99	411.29	411.00	413.30	413.22	421.16	421.30	19				
120 TO 119	46.57	0.270	8.580	0.70	0.19	5.84	5.0	8.41	6.09	35.57	41.20	8.64	30	1.01	411.86	411.39	413.85	413.31	420.29	421.16	20				
121 TO 120	26.00	0.250	6.950	0.70	0.18	4.70	5.0	8.36	6.10	28.68	41.01	5.97	30	1.00	412.22	411.96	414.51	414.44	420.29	420.29	21				
122 TO 121	52.63	0.140	6.700	0.70	0.10	4.52	5.0	8.25	6.13	27.72	37.07	7.62	30	0.82	412.75	412.32	414.52	414.03	420.63	420.29	22				

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		Rationa		C x A		Tc		Intensity		Total Q		Capacity		Velocity		Line		Invert Elev		HGL Elev		Surface Elev		Line No	
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)	Inlet (min)	Total (min)	Inlet (in)	Syst (in)	Size (ft)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		
123 TO 122	92.66	0.200	6.460	0.70	0.14	4.36	5.0	8.08	6.17	26.88	41.09	7.82	30	1.00	413.78	412.85	415.51	414.43	421.15	420.63	23						
124 TO 123	87.13	0.170	3.750	0.70	0.12	2.55	5.0	7.89	6.22	15.86	22.60	7.03	24	1.00	415.15	414.28	416.56	415.57	422.20	421.15	24						
125 TO 124	67.88	0.110	3.580	0.70	0.08	2.43	5.0	7.74	6.25	15.21	22.64	6.04	24	1.00	415.93	415.25	417.31	416.89	423.02	422.20	25						
126 TO 125	90.79	0.190	1.390	0.70	0.13	0.97	5.0	5.95	6.74	6.56	12.84	7.90	15	3.95	420.27	416.68	421.29	417.35	424.12	423.02	26						
127 TO 126	153.04	0.230	1.200	0.70	0.16	0.84	5.0	5.55	6.86	5.76	6.96	5.39	15	1.16	422.15	420.37	423.11	421.46	426.00	424.12	27						
128 TO 127	150.00	0.330	0.670	0.70	0.23	0.47	5.0	5.10	7.00	3.28	6.95	3.56	15	1.16	423.99	422.25	424.72	423.50	428.01	426.00	28						
129 TO 128	26.94	0.340	0.340	0.70	0.24	0.24	5.0	5.00	7.04	1.67	6.46	2.41	15	1.00	424.36	424.09	424.94	424.97	428.11	428.01	29						
130 TO 127	26.31	0.300	0.300	0.70	0.21	0.21	5.0	5.00	7.04	1.48	6.42	1.61	15	0.99	422.81	422.55	423.58	423.59	426.06	426.00	30						
131 TO 125	32.50	0.590	2.080	0.70	0.41	1.38	5.0	7.66	6.28	8.67	10.42	6.21	18	0.98	419.67	419.35	420.79	420.44	423.24	423.02	31						
132 TO 131	135.02	0.330	1.490	0.65	0.21	0.97	5.0	7.18	6.40	6.20	7.45	4.01	18	0.50	420.45	419.77	421.56	421.17	425.70	423.24	32						
133 TO 132	69.11	0.210	1.160	0.65	0.14	0.75	5.0	6.91	6.47	4.88	4.60	4.22	15	0.51	421.05	420.70	422.17	421.82	424.30	425.70	33						
134 TO 133	217.06	0.410	0.950	0.65	0.27	0.62	5.0	6.17	6.68	4.12	5.54	4.91	15	0.74	422.75	421.15	423.56	421.95	426.30	424.30	34						
135 TO 134	267.22	0.540	0.540	0.65	0.35	0.35	5.0	5.00	7.04	2.47	4.57	4.00	15	0.50	424.19	422.85	424.82	423.48	427.44	426.30	35						
136 TO 123	26.00	0.660	0.660	0.70	0.46	0.46	5.0	5.00	7.04	3.25	6.46	4.64	15	1.00	417.40	417.14	418.12	417.81	421.15	421.15	36						
137 TO 123	55.85	0.500	1.850	0.65	0.33	1.20	5.0	6.05	6.71	8.07	20.94	7.70	18	3.97	417.00	414.78	418.08	415.51	420.60	421.15	37						
138 TO 137	200.00	0.700	1.350	0.65	0.46	0.88	5.0	5.56	6.86	6.02	7.50	6.26	15	1.35	420.05	417.35	421.03	418.21	423.40	420.60	38						
139 TO 138	190.68	0.650	0.650	0.65	0.42	0.42	5.0	5.00	7.04	2.97	7.36	3.46	15	1.30	422.85	420.37	423.54	421.45	426.10	423.40	39						
140 TO 122	25.92	0.100	0.100	0.70	0.07	0.07	5.0	5.00	7.04	0.49	6.47	2.63	15	1.00	416.88	416.62	417.16	416.87	420.63	426.00	40						
141 TO 120	134.70	0.360	1.360	0.70	0.25	0.95	5.0	5.57	6.86	6.53	18.19	7.08	18	3.00	418.56	414.52	419.54	415.18	422.11	420.29	41						
142 TO 141	155.45	0.280	0.750	0.70	0.20	0.53	5.0	5.09	7.01	3.68	6.45	4.26	15	1.00	420.46	418.91	421.23	419.82	424.57	422.11	42						
143 TO 142	26.00	0.470	0.470	0.70	0.33	0.33	5.0	5.00	7.04	2.31	6.46	4.13	15	1.00	420.82	420.56	421.43	421.12	424.57	424.57	43						
144 TO 141	26.56	0.250	0.250	0.70	0.18	0.18	5.0	5.00	7.04	1.23	6.51	1.32	15	1.02	419.18	418.91	419.96	419.96	422.20	422.11	44						

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity (in/hr)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No		
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)				Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)			
145 TO 117	29.82	0.110	1.360	0.70	0.08	0.89	5.0	5.60	6.85	6.09	14.43	7.54	15	5.00	415.98	414.49	416.97	415.15	422.16	422.30	45
146 TO 145	67.27	0.730	1.250	0.65	0.47	0.81	5.0	5.41	6.91	5.61	6.44	5.72	15	1.00	416.75	416.08	417.70	417.00	420.10	422.16	46
147 TO 146	150.00	0.520	0.520	0.65	0.34	0.34	5.0	5.00	7.04	2.38	8.90	2.99	15	1.90	419.85	417.00	420.47	418.12	423.10	420.10	47
148 TO 114	26.00	0.370	0.370	0.70	0.26	0.26	5.0	5.00	7.04	1.82	6.45	3.83	15	1.00	415.15	414.89	415.69	415.38	419.05	419.05	48
149 TO 107	34.00	0.670	0.670	0.70	0.47	0.47	5.0	5.00	7.04	3.30	6.46	3.55	15	1.00	400.47	400.13	401.23	401.25	404.22	404.22	49
150 TO 103	34.01	0.390	0.390	0.70	0.27	0.27	5.0	5.00	7.04	1.92	6.45	3.94	15	1.00	395.75	395.41	396.30	395.91	398.55	398.55	50
151 TO 102	127.47	0.190	13.970	0.70	0.13	7.77	5.0	6.66	6.54	50.77	71.29	5.49	42	0.50	391.09	390.45	394.14	393.92	398.62	399.63	51
152 TO 151	116.44	0.040	13.490	0.80	0.03	7.43	5.0	6.41	6.61	49.10	47.07	7.56	36	0.50	392.17	391.59	394.76	394.18	399.75	398.62	52
153 TO 152	70.65	0.220	10.380	0.70	0.15	5.56	5.0	6.24	6.66	36.97	46.94	5.34	36	0.50	392.62	392.27	395.38	395.22	400.98	399.75	53
154 TO 153	100.00	0.350	9.870	0.70	0.25	5.20	5.0	6.01	6.72	34.94	47.16	5.55	36	0.50	393.22	392.72	395.57	395.41	402.62	400.98	54
155 TO 154	155.00	0.090	9.520	0.80	0.07	4.95	5.0	5.66	6.83	33.82	47.31	6.71	36	0.50	394.10	393.32	395.96	395.53	405.17	402.62	55
156 TO 155	155.00	0.350	0.620	0.70	0.25	0.43	5.0	5.16	6.98	3.03	6.46	4.69	15	1.00	402.48	400.93	403.18	401.54	407.72	405.17	56
157 TO 156	39.30	0.270	0.270	0.70	0.19	0.19	5.0	5.00	7.04	1.33	6.43	3.53	15	0.99	404.45	404.06	404.91	404.47	408.20	407.72	57
158 TO 155	139.32	8.600	8.600	0.50	4.30	4.30	5.0	5.00	7.04	30.25	29.07	6.72	30	0.50	395.30	394.60	397.46	396.76	398.50	405.17	58
159 TO 155	26.00	0.210	0.210	0.70	0.15	0.15	5.0	5.00	7.04	1.03	6.46	3.25	15	1.00	401.19	400.93	401.60	401.29	405.17	405.17	59
160 TO 153	26.00	0.290	0.290	0.70	0.20	0.20	5.0	5.00	7.04	1.43	6.45	3.58	15	1.00	398.44	398.18	398.92	398.61	400.98	400.98	60
161 TO 152	27.24	3.070	3.070	0.60	1.84	1.84	5.0	5.00	7.04	12.96	30.71	10.23	18	8.55	396.00	393.67	397.35	394.51	399.50	399.75	61
163 TO 151	26.00	0.290	0.290	0.70	0.20	0.20	5.0	5.00	7.04	1.43	6.46	3.58	15	1.00	394.87	394.61	395.35	395.04	398.62	398.62	62
163 TO 101	97.33	0.170	26.076	0.70	0.12	17.05	5.0	10.04	5.73	97.76	101.92	9.06	48	0.50	390.17	389.68	393.33	392.93	400.64	399.63	63
164 TO 163	34.00	0.330	25.906	0.70	0.23	16.93	5.0	9.98	5.75	97.30	101.58	8.52	48	0.50	390.44	390.27	393.83	393.71	400.64	400.64	64
165 TO 164	21.60	0.340	25.576	0.60	0.20	16.70	5.0	9.94	5.76	96.11	102.51	9.21	48	0.51	390.65	393.74	393.64	399.00	400.64	400.64	65
166 TO 165	132.24	0.001	25.236	0.60	0.00	16.49	5.0	9.69	5.81	95.79	101.48	8.64	48	0.50	391.41	390.75	394.61	394.16	401.00	399.00	66

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Q Total	Capacity (cfs)	Velocity (ft/s)	Slope (%)	Size (in)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)							Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
167 TO 166	63.87	1.850	25.235	0.55	1.02	16.49	5.0	9.57	5.83	96.20	101.67	8.54	48	0.50	391.83	391.51	394.93	400.00	401.00	401.00	67	
168 TO 167	78.86	4.540	23.385	0.55	2.50	15.48	5.0	9.42	5.86	90.76	101.02	8.28	48	0.49	392.32	391.93	395.49	395.28	400.50	400.00	68	
169 TO 168	302.42	0.010	18.845	0.75	0.01	12.98	5.0	8.84	5.99	77.79	101.50	8.94	48	0.50	393.93	392.42	396.55	395.03	406.00	400.50	69	
170 TO 169	123.61	0.350	18.835	0.65	0.23	12.97	5.0	8.60	6.05	78.45	101.73	8.19	48	0.50	394.65	394.03	397.29	397.15	405.34	406.00	70	
171 TO 170	51.50	0.001	18.485	0.75	0.00	12.74	5.0	8.50	6.07	77.37	102.07	7.53	48	0.50	395.01	394.75	397.96	397.91	405.87	405.34	71	
172 TO 171	65.12	0.400	6.301	0.75	0.30	4.33	5.0	7.63	6.28	27.20	47.48	4.37	36	0.51	396.34	396.01	398.68	398.63	404.91	405.87	72	
173 TO 172	121.67	0.340	5.601	0.75	0.26	3.85	5.0	7.32	6.36	24.49	29.04	6.63	30	0.50	397.45	396.84	399.21	398.60	403.73	404.91	73	
174 TO 173	86.27	0.340	4.831	0.75	0.26	3.34	5.0	7.10	6.42	21.42	28.96	5.88	30	0.50	397.98	397.55	399.61	399.43	402.68	403.73	74	
175 TO 174	60.11	0.360	3.901	0.75	0.27	2.73	5.0	6.93	6.46	17.63	28.97	5.06	30	0.50	398.38	398.08	399.94	399.89	403.41	402.68	75	
176 TO 175	129.83	0.410	3.541	0.75	0.31	2.46	5.0	6.56	6.57	16.14	16.00	5.81	24	0.50	399.53	398.88	401.18	400.54	404.81	403.41	76	
177 TO 176	168.17	0.001	2.341	0.75	0.00	1.68	5.0	6.06	6.71	11.24	16.62	4.44	24	0.54	400.53	399.62	401.83	401.50	406.09	404.81	77	
178 TO 177	20.50	0.170	0.75	0.13	0.13	5.0	5.00	7.04	0.90	14.47	1.92	15	5.02	402.40	401.37	402.78	402.23	406.82	406.09	78		
179 TO 177	36.99	0.540	2.170	0.75	0.41	1.55	5.0	5.94	6.74	10.44	15.78	5.36	24	0.49	400.81	400.63	402.00	401.82	405.92	406.09	79	
180 TO 179	150.01	0.470	1.390	0.75	0.35	0.99	5.0	5.60	6.85	6.75	12.86	6.24	18	1.50	403.58	401.33	404.57	402.13	408.24	405.92	80	
181 TO 180	152.00	0.470	0.700	0.75	0.35	0.50	5.0	5.27	6.95	3.49	10.34	5.90	15	2.57	407.73	403.83	408.48	404.35	411.94	408.24	81	
182 TO 181	62.00	0.230	0.65	0.15	0.15	5.0	5.00	7.04	1.05	6.46	3.33	15	1.00	408.45	407.83	408.86	408.18	411.70	411.94	82		
188 TO 180	62.00	0.220	0.60	0.13	0.13	5.0	5.00	7.04	0.93	6.46	2.06	15	1.00	404.89	404.27	405.28	405.01	408.14	408.24	83		
187 TO 179	22.00	0.240	0.65	0.16	0.16	5.0	5.00	7.04	1.10	6.46	1.49	15	1.00	401.78	401.56	402.41	402.42	405.50	405.92	84		
186 TO 176	22.00	0.790	0.60	0.47	0.47	5.0	5.00	7.04	3.33	14.85	4.76	18	2.00	400.81	400.37	401.51	400.94	403.06	404.81	85		
185 TO 174	22.00	0.590	0.60	0.35	0.35	5.0	5.00	7.04	2.49	4.57	2.85	15	0.50	399.34	399.23	400.14	400.11	401.83	402.68	86		
184 TO 173	62.31	0.430	0.60	0.26	0.26	5.0	5.00	7.04	1.82	6.44	3.92	15	0.99	400.75	400.13	401.29	400.60	404.00	403.73	87		
183 TO 172	29.50	0.300	0.60	0.18	0.18	5.0	5.00	7.04	1.27	9.13	2.27	15	2.00	398.68	399.13	399.88	404.04	404.91	404.91	88		

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Q Total	Capacity (cfs)	Velocity (ft/s)	Slope (%)	Size (in)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)							Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
189 TO 171	66.79	0.470	12.183	0.75	0.35	8.41	5.0	8.42	6.09	51.25	94.40	10.05	36	2.00	397.35	396.01	399.63	397.86	406.69	405.87	89	
190 TO 189	65.12	0.010	10.963	0.75	0.01	7.57	5.0	8.31	6.12	46.33	66.63	8.81	36	1.00	398.10	397.45	400.27	399.47	407.65	406.89	90	
191 TO 190	80.30	0.001	10.893	0.80	0.00	7.53	5.0	8.17	6.15	46.30	66.57	8.86	36	1.00	399.00	398.20	401.17	400.20	408.73	407.65	91	
192 TO 191	183.08	0.400	5.321	0.75	0.30	3.71	5.0	6.57	6.56	24.35	50.26	6.07	30	1.50	402.25	399.50	403.90	401.88	411.12	408.73	92	
193 TO 192	131.67	0.400	4.491	0.75	0.30	3.13	5.0	6.37	6.62	20.74	62.62	8.38	30	2.33	405.42	402.35	406.94	403.44	412.90	411.12	93	
194 TO 193	131.67	0.630	3.761	0.75	0.47	2.62	5.0	6.12	6.69	17.54	25.78	7.67	24	1.30	407.63	405.92	409.11	407.19	414.68	412.90	94	
195 TO 194	144.67	0.001	2.701	0.75	0.00	1.87	5.0	5.82	6.78	12.69	25.78	5.11	24	1.30	409.61	407.73	410.87	409.61	416.78	414.88	95	
196 TO 195	42.59	0.340	2.700	0.70	0.24	1.87	5.0	5.77	6.80	12.71	50.46	8.24	24	4.98	411.83	409.71	413.09	410.54	417.09	416.78	96	
197 TO 196	34.00	1.240	1.980	0.70	0.87	1.39	5.0	5.70	6.81	9.45	14.85	7.05	18	2.00	413.01	412.33	414.18	413.31	417.09	417.09	97	
198 TO 197	228.85	0.740	0.740	0.70	0.52	0.52	5.0	5.00	7.04	3.64	6.46	3.98	15	1.00	415.88	413.59	416.64	414.64	421.22	417.09	98	
199 TO 196	18.00	0.380	0.380	0.65	0.25	0.25	5.0	5.00	7.04	1.74	6.46	1.75	15	1.00	412.76	412.58	413.62	413.63	416.01	417.09	99	
200 TO 194	55.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	411.09	410.54	411.29	410.71	414.34	414.88	100	
201 TO 194	29.50	0.370	0.370	0.65	0.24	0.24	5.0	5.00	7.04	1.69	6.40	3.77	15	0.98	410.49	410.20	411.01	410.67	413.74	414.68	101	
202 TO 193	29.50	0.280	0.280	0.65	0.18	0.18	5.0	5.00	7.04	1.28	6.40	3.46	15	0.98	408.69	408.40	409.14	408.80	411.94	412.90	102	
203 TO 193	55.50	0.050	0.050	0.60	0.03	0.03	5.0	5.00	7.04	0.21	6.43	2.10	15	0.99	409.93	409.38	410.11	409.54	413.18	412.90	103	
204 TO 192	29.50	0.370	0.370	0.65	0.24	0.24	5.0	5.00	7.04	1.69	6.40	3.77	15	0.98	406.88	406.59	407.40	407.06	410.13	411.12	104	
205 TO 192	55.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	407.75	407.20	407.95	407.37	411.00	411.12	105	
206 TO 191	72.74	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.47	2.23	15	1.00	405.85	405.12	406.05	405.29	409.10	408.73	106	
207 TO 191	45.19	0.660	5.511	0.70	0.46	3.79	5.0	8.08	6.17	23.35	40.92	7.29	30	1.00	403.24	402.79	404.86	404.29	408.16	408.73	107	
208 TO 207	61.19	0.410	4.851	0.75	0.31	3.32	5.0	7.96	6.20	20.61	22.58	7.75	24	1.00	404.35	403.74	405.96	405.29	409.30	408.16	108	
209 TO 208	133.33	0.220	3.321	0.75	0.17	2.34	5.0	7.66	6.27	14.70	22.59	6.89	24	1.00	406.30	404.97	407.66	406.19	415.20	409.30	109	
210 TO 209	135.67	0.001	2.961	0.70	0.00	2.09	5.0	7.44	6.33	13.22	34.15	7.75	24	2.28	409.49	406.40	410.78	407.32	416.28	415.20	110	

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Total Q	Capacity (cfs)	Velocity (ft/s)	Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Surface Elev (ft)	Line No		
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)														
211 TO 210	36.06	0.380	0.620	0.75	0.29	0.44	5.0	5.26	6.95	3.07	6.45	3.63	15	1.00	410.60	410.24	411.30	411.23	415.56	416.28	111
212 TO 211	62.00	0.240	0.240	0.65	0.16	0.16	5.0	5.00	7.04	1.10	6.46	3.39	15	1.00	411.32	410.70	411.74	411.06	414.57	415.56	112
213 TO 210	116.24	0.470	2.340	0.75	0.35	1.65	5.0	7.16	6.40	10.54	22.59	6.14	24	1.00	411.95	410.79	413.10	411.80	417.70	416.28	113
213A TO 213	152.00	0.470	1.620	0.75	0.35	1.13	5.0	6.77	6.51	7.36	10.50	5.96	18	1.00	413.97	412.45	415.01	413.40	419.60	417.70	114
214 TO 213A	152.00	0.320	0.890	0.75	0.24	0.62	5.0	6.40	6.61	4.11	14.36	5.57	18	1.87	417.13	414.29	417.90	414.86	421.50	419.60	115
215 TO 214	103.43	0.270	0.270	0.75	0.20	0.20	5.0	5.00	7.04	1.42	9.25	2.53	15	2.05	419.50	417.38	419.98	418.16	423.25	421.50	116
216 TO 214	65.75	0.060	0.300	0.60	0.04	0.18	5.0	6.13	6.69	1.20	6.47	2.29	15	1.00	418.04	417.38	418.48	418.18	421.06	421.50	117
217 TO 216	46.25	0.180	0.240	0.60	0.11	0.14	5.0	5.93	6.75	0.97	6.44	3.23	15	0.99	418.60	418.14	418.99	418.48	421.99	421.06	118
218 TO 217	142.00	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.46	1.34	15	1.00	420.12	418.70	420.32	419.12	423.37	421.99	119
219 TO 213	62.00	0.250	0.250	0.65	0.16	0.16	5.0	5.00	7.04	1.14	6.46	2.17	15	1.00	413.32	412.70	413.75	413.57	416.57	417.70	120
220 TO 209	58.00	0.140	0.140	0.65	0.09	0.09	5.0	5.00	7.04	0.64	6.46	2.89	15	1.00	410.95	410.37	411.27	410.64	414.20	415.20	121
221 TO 208	61.07	1.120	1.120	0.60	0.67	0.67	5.0	5.00	7.04	4.73	9.64	6.15	15	2.23	407.33	405.97	408.20	406.64	410.50	409.30	122
222 TO 190	51.50	0.060	0.060	0.60	0.04	0.04	5.0	5.00	7.04	0.25	6.43	2.21	15	0.99	404.67	404.16	404.87	404.33	407.92	407.65	123
223 TO 189	29.50	0.750	0.750	0.65	0.49	0.49	5.0	5.00	7.04	3.43	6.51	4.74	15	1.02	402.59	402.29	403.33	402.98	405.84	406.69	124
314 TO 112	78.56	0.300	0.300	0.70	0.21	0.21	5.0	5.00	7.04	1.48	6.48	3.72	15	1.01	413.48	412.69	413.97	413.11	417.23	418.20	125
213B TO 213A	62.00	0.260	0.260	0.60	0.16	0.16	5.0	5.00	7.04	1.10	6.46	3.39	15	1.00	415.22	414.60	415.64	414.96	418.47	419.60	126

was this pipe to be removed,
per David it was to be removed

Ac. t be update per
revised DA

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Storm Sewer Tabulation

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Q Total	Capacity (cfs)	Velocity (ft/s)	Slope (%)	Size (in)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)							Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
301 TO 300	158.01	0.120	26.874	0.70	0.08	17.07	5.0	9.33	5.88	100.42	143.64	10.67	48	1.00	393.58	392.00	396.54	394.67	411.53	409.00	409.00	1
318 TO 301	53.51	0.470	1.950	0.65	0.31	1.27	5.0	5.96	6.74	8.54	10.45	6.21	18	0.99	405.40	404.87	406.52	405.94	409.50	411.53	411.53	2
319 TO 318	150.00	0.770	1.480	0.65	0.50	0.96	5.0	5.56	6.86	6.60	10.50	4.68	18	1.00	407.00	405.50	407.98	406.84	411.00	409.50	409.50	3
320 TO 319	200.00	0.710	0.710	0.65	0.46	0.46	5.0	5.00	7.04	3.25	7.64	3.70	15	1.40	410.05	407.25	410.77	408.29	413.80	411.00	411.00	4
302 TO 301	121.15	0.030	22.024	0.70	0.02	13.77	5.0	9.16	5.92	81.55	143.65	9.79	48	1.00	395.96	394.75	398.63	397.14	413.22	411.53	411.53	5
303 TO 302	194.20	0.001	11.892	0.70	0.00	8.05	5.0	8.84	5.99	48.24	66.69	9.19	36	1.00	398.90	396.96	401.12	398.94	415.40	413.22	413.22	6
304 TO 303	99.50	0.060	10.151	0.70	0.04	6.92	5.0	8.67	6.03	41.73	66.69	7.20	36	1.00	400.00	399.00	402.06	401.65	414.57	415.40	415.40	7
305 TO 304	180.50	0.190	5.691	0.70	0.13	3.86	5.0	7.19	6.39	24.67	41.01	7.71	30	1.00	402.30	400.50	403.96	401.96	412.58	414.57	414.57	8
306 TO 305	119.54	0.030	3.500	0.70	0.02	2.39	5.0	6.94	6.46	15.47	22.62	7.02	24	1.00	404.00	402.80	405.39	404.07	413.40	412.58	412.58	9
307 TO 306	51.61	0.170	3.470	0.70	0.12	2.37	5.0	6.82	6.49	15.40	22.62	6.16	24	1.00	404.62	404.10	406.01	405.70	413.39	413.40	413.40	10
308 TO 307	26.00	0.210	3.300	0.70	0.15	2.25	5.0	6.78	6.51	14.66	32.10	7.16	24	2.01	405.24	404.72	406.60	405.87	413.39	413.39	413.39	11
309 TO 308	51.59	0.140	1.990	0.70	0.10	1.39	5.0	6.68	6.53	9.10	31.96	6.33	24	2.00	406.97	405.94	408.04	406.78	414.49	413.39	413.39	12
363 TO 309	32.89	0.150	0.150	0.70	0.11	0.11	5.0	5.00	7.04	0.74	6.45	2.97	15	1.00	410.95	410.62	411.29	410.92	414.70	414.49	414.49	13
310 TO 309	110.98	0.080	1.700	0.70	0.06	1.19	5.0	6.32	6.63	7.90	15.92	4.96	24	0.50	407.62	407.07	408.62	408.09	415.68	414.49	414.49	14
311 TO 310	74.28	0.130	1.620	0.70	0.09	1.13	5.0	6.07	6.71	7.60	15.96	4.63	24	0.50	408.09	407.72	409.07	408.82	416.43	415.68	415.68	15
312 TO 311	109.40	0.090	1.490	0.70	0.06	1.04	5.0	5.70	6.82	7.11	16.02	4.48	24	0.50	408.74	408.19	409.68	409.27	417.80	416.43	416.43	16
364 TO 312	198.16	0.260	0.860	0.70	0.18	0.60	5.0	5.11	7.00	4.21	6.46	5.22	15	1.00	415.42	413.44	416.24	414.18	419.61	417.80	417.80	17
365 TO 364	34.00	0.600	0.600	0.70	0.42	0.42	5.0	5.00	7.04	2.96	6.46	3.59	15	1.00	415.86	415.52	416.55	416.48	419.61	419.61	419.61	18
313 TO 312	34.00	0.540	0.540	0.70	0.38	0.38	5.0	5.00	7.04	2.66	10.50	4.15	18	1.00	409.68	409.34	410.30	409.90	417.80	417.80	417.80	19
360 TO 308	132.52	0.100	1.100	0.70	0.07	0.71	5.0	5.09	7.01	5.00	6.46	5.52	15	1.00	409.88	408.56	410.78	409.39	415.56	413.39	413.39	20
361 TO 360	26.00	0.430	0.430	0.70	0.30	0.30	5.0	5.00	7.04	2.12	6.46	4.04	15	1.00	411.81	411.55	412.39	412.08	415.56	415.56	415.56	21
362 TO 360	27.00	0.570	0.60	0.34	0.34	0.34	5.0	5.00	7.04	2.41	6.44	2.27	15	1.00	410.25	409.98	411.15	411.15	414.00	415.56	415.56	22

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity (in/hr)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No		
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)				Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)			
356 TO 305	15.62	0.001	1.371	0.70	0.00	0.89	5.0	5.85	6.77	6.03	6.45	5.82	15	1.00	407.41	407.25	408.40	408.24	412.60	412.58	23
357 TO 356	43.93	0.840	1.370	0.65	0.55	0.89	5.0	5.73	6.81	6.06	6.46	5.87	15	1.00	407.95	407.51	408.94	408.49	411.80	412.60	24
358 TO 357	192.17	0.310	0.530	0.65	0.20	0.34	5.0	5.24	6.96	2.40	9.79	2.98	15	2.30	412.65	408.23	413.27	409.40	416.50	411.80	25
359 TO 358	70.25	0.220	0.220	0.65	0.14	0.14	5.0	5.00	7.04	1.01	9.12	2.15	15	1.99	414.15	412.75	414.55	413.48	417.90	416.50	26
355 TO 305	26.00	0.630	0.630	0.70	0.44	0.44	5.0	5.00	7.04	3.10	6.46	4.57	15	1.00	408.83	408.57	409.54	409.22	412.58	412.58	27
338 TO 304	52.19	0.370	4.400	0.70	0.26	0.302	5.0	8.62	6.04	18.24	59.32	10.19	24	6.88	404.59	401.00	406.10	401.90	413.24	414.57	28
339 TO 338	26.00	0.140	4.030	0.70	0.10	0.276	5.0	8.56	6.06	16.71	22.62	7.01	24	1.00	404.95	404.69	406.40	406.08	413.24	413.24	29
340 TO 339	126.16	0.320	3.890	0.70	0.22	0.266	5.0	8.29	6.12	16.28	22.60	6.31	24	1.00	406.31	405.05	407.74	406.71	415.23	413.24	30
341 TO 340	198.66	0.230	3.140	0.70	0.16	0.214	5.0	7.84	6.23	13.30	22.64	5.44	24	1.00	408.40	406.41	409.69	408.11	418.92	415.23	31
342 TO 341	226.14	0.180	2.910	0.70	0.13	0.197	5.0	7.33	6.36	12.56	22.61	6.59	24	1.00	410.76	408.50	412.02	409.59	422.62	418.92	32
343 TO 342	26.00	0.080	2.730	0.70	0.06	0.185	5.0	7.27	6.37	11.78	22.62	6.12	24	1.00	411.12	410.86	412.34	412.00	422.62	422.62	33
343A TO 343	72.59	0.120	2.650	0.70	0.08	0.179	5.0	7.10	6.42	11.51	22.68	5.39	24	1.01	411.95	411.22	413.15	412.61	423.40	422.62	34
344 TO 343	112.21	0.090	1.280	0.70	0.06	0.090	5.0	6.95	6.46	5.79	25.95	7.96	18	6.10	419.30	412.45	420.22	412.96	424.55	423.40	35
345 TO 344	86.80	0.130	1.000	0.70	0.09	0.070	5.0	6.74	6.52	4.56	8.66	5.91	15	1.80	421.11	419.55	421.97	420.23	425.48	424.55	36
346 TO 345	112.74	0.230	0.870	0.70	0.16	0.61	5.0	6.40	6.61	4.03	6.46	5.12	15	1.00	422.34	421.21	423.14	421.94	426.63	425.48	37
347 TO 346	200.00	0.170	0.550	0.70	0.12	0.39	5.0	5.74	6.81	2.62	6.46	3.34	15	1.00	424.44	422.44	425.09	423.40	428.64	426.63	38
348 TO 347	150.00	0.220	0.300	0.70	0.15	0.21	5.0	5.15	6.99	1.47	6.46	2.63	15	1.00	426.04	424.54	426.52	425.29	430.15	428.64	39
349 TO 348	26.00	0.080	0.080	0.70	0.06	0.06	5.0	5.00	7.04	0.39	6.46	1.33	15	1.00	426.40	426.14	426.68	426.69	430.15	430.15	40
354 TO 347	26.00	0.080	0.080	0.70	0.06	0.06	5.0	5.00	7.04	0.39	7.49	0.73	15	1.35	424.89	424.54	425.34	425.34	428.64	428.64	41
353 TO 346	26.00	0.090	0.090	0.70	0.06	0.06	5.0	5.00	7.04	0.44	8.40	0.56	15	1.69	422.88	423.44	423.50	423.50	426.63	426.63	42
351 TO 344	73.31	0.190	0.190	0.70	0.13	0.13	5.0	5.00	7.04	0.94	6.13	3.16	15	0.90	420.28	419.62	420.67	419.96	424.55	424.55	43
315 TO 343A	51.04	0.000	1.250	0.00	0.00	0.81	0.0	6.04	6.71	5.46	10.50	4.58	18	1.00	412.96	413.85	413.49	423.91	423.40	423.40	44

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Q Total (cfs)	Capacity (cfs)	Velocity (ft/s)	Line		Invert Elev		HGL Elev		Surface Elev		Line No	
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)					Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		
316 TO 315	204.81	0.550	1.250	0.65	0.36	0.81	5.0	5.48	6.88	5.59	10.51	5.46	18	1.00	415.11	413.06	416.01	413.85	419.11	423.91	45
317 TO 316	150.00	0.700	0.700	0.65	0.46	0.46	5.0	5.00	7.04	3.20	6.46	4.76	15	1.00	416.86	415.36	417.58	415.99	420.11	419.11	46
350 TO 340	26.00	0.430	0.430	0.70	0.30	0.30	5.0	5.00	7.04	2.12	6.47	4.04	15	1.00	411.48	411.22	412.06	411.75	415.23	415.23	47
333 TO 303	67.00	0.170	1.740	0.65	0.11	1.13	5.0	5.93	6.75	7.63	10.50	5.99	18	1.00	409.04	408.37	410.09	409.35	414.53	415.40	48
334 TO 333	100.00	0.370	1.570	0.65	0.24	1.02	5.0	5.67	6.82	6.96	10.50	5.82	18	1.00	410.14	409.14	411.15	410.06	414.53	414.53	49
335 TO 334	100.00	0.270	1.200	0.65	0.18	0.78	5.0	5.39	6.91	5.39	6.46	5.66	15	1.00	411.39	410.39	412.32	411.27	415.53	414.53	50
336 TO 335	60.09	0.170	0.930	0.65	0.11	0.60	5.0	5.21	6.97	4.21	6.46	4.34	15	1.00	412.09	411.49	412.91	412.57	416.32	415.53	51
337 TO 336	66.97	0.760	0.760	0.65	0.49	0.49	5.0	5.00	7.04	3.48	6.46	4.24	15	1.00	412.86	412.19	413.61	413.04	416.61	416.32	52
322 TO 302	59.02	0.130	9.882	0.70	0.09	5.55	5.0	6.58	6.56	36.39	41.00	8.75	30	1.00	401.21	400.62	403.23	402.56	413.37	413.22	53
323 TO 322	26.00	0.580	9.752	0.70	0.41	5.46	5.0	6.53	6.57	35.87	41.01	8.13	30	1.00	401.57	401.31	403.58	403.54	413.37	413.37	54
324 TO 323	170.39	0.390	9.172	0.70	0.27	5.05	5.0	6.23	6.66	33.64	41.01	8.61	30	1.00	403.37	401.67	405.31	403.45	415.13	413.37	55
325 TO 324	200.00	0.330	8.672	0.70	0.23	4.70	5.0	5.86	6.77	31.81	41.01	8.46	30	1.00	405.47	403.47	407.36	405.18	417.37	415.13	56
326 TO 325	178.00	0.001	8.112	0.70	0.00	4.31	5.0	5.53	6.87	29.58	41.01	8.21	30	1.00	407.35	405.57	409.17	407.21	419.02	417.37	57
327 TO 326	90.79	0.570	8.111	0.70	0.40	4.31	5.0	5.37	6.92	29.80	41.01	8.14	30	1.00	408.36	407.45	410.19	409.13	418.81	419.02	58
328 TO 327	34.00	0.920	7.541	0.65	0.60	3.91	5.0	5.30	6.94	27.12	41.01	6.91	30	1.00	408.80	408.46	410.54	410.48	418.81	418.81	59
329 TO 328	24.75	0.001	6.621	0.70	0.00	3.31	5.0	5.25	6.95	23.02	22.62	8.08	24	1.00	409.55	409.30	411.25	411.00	419.11	418.81	60
330 TO 329	125.00	6.620	6.620	0.50	3.31	3.31	5.0	5.00	7.04	23.29	22.62	8.13	24	1.00	410.90	409.65	412.62	411.35	415.40	419.11	61
332 TO 325	27.86	0.230	0.230	0.70	0.16	0.16	5.0	5.00	7.04	1.13	6.46	3.34	15	1.00	413.73	413.45	414.16	413.83	417.48	417.37	62
331 TO 324	27.86	0.110	0.110	0.70	0.08	0.08	5.0	5.00	7.04	0.54	6.46	2.70	15	1.00	411.49	411.21	411.78	411.47	415.24	415.13	63
321 TO 302	26.00	0.220	0.220	0.70	0.15	0.15	5.0	5.00	7.04	1.08	6.46	3.28	15	1.00	409.47	409.21	409.89	409.58	413.22	413.22	64
366 TO 301	31.12	0.180	2.780	0.70	0.13	1.95	5.0	6.64	12.74	22.72	6.33	24	1.01	402.76	404.03	403.63	411.43	411.53	411.43	65	
367 TO 366	88.52	0.210	2.270	0.70	0.15	1.59	5.0	6.42	6.61	10.50	6.74	18	1.00	404.15	403.26	405.39	404.49	412.21	411.43	66	

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Total Q	Capacity	Velocity (ft/s)	Size (in)	Slope (%)	Line		Invert Elev		HGL Elev		Surface Elev		Line No
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)							Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
368 TO 367	117.23	0.280	1.740	0.70	0.20	1.22	5.0	6.12	6.69	8.15	10.50	6.17	18	1.00	405.32	404.15	406.41	405.16	414.68	412.21	67	
368 TO 368	328.78	0.660	1.210	0.70	0.46	0.85	5.0	5.22	6.96	5.90	10.50	4.35	18	1.00	408.71	405.42	409.64	406.76	413.07	414.88	68	
370 TO 369	73.25	0.270	0.270	0.70	0.19	0.19	5.0	5.00	7.04	1.33	9.48	2.27	15	2.16	410.64	409.06	411.10	410.02	414.39	413.07	69	
374 TO 369	26.00	0.280	0.280	0.70	0.20	0.20	5.0	5.00	7.04	1.38	6.46	1.68	15	1.00	409.32	409.06	410.01	410.02	413.07	413.07	70	
383 TO 368	26.00	0.250	0.250	0.70	0.18	0.18	5.0	5.00	7.04	1.23	6.47	3.40	15	1.00	410.93	410.67	411.37	411.07	414.68	414.68	71	
372 TO 367	26.00	0.320	0.320	0.70	0.22	0.22	5.0	5.00	7.04	1.58	6.45	3.68	15	1.00	408.46	408.20	408.96	408.65	412.21	412.21	72	
371 TO 366	26.00	0.330	0.330	0.70	0.23	0.23	5.0	5.00	7.04	1.63	6.45	3.70	15	1.00	407.68	407.42	408.19	407.88	411.43	411.43	73	

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Storm Sewer Tabulation

Stormwater Studio 2022 v 3.0.0.29

Project Name: Enter Project Name...

12-12-2022

Line ID	Length (ft)	Drng Area		C x A		Tc		Intensity	Total Q	Capacity	Velocity	Line		Invert Elev		HGL Elev		Surface Elev		Line No	
		Incr (ac)	Total (ac)	Incr (C)	Total (C)	Inlet (min)	Syst (min)					Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		
401 TO 400	37.42	0.001	19.141	0.75	0.00	8.12	5.0	15.08	4.87	39.54	23.68	12.62	24	1.10	405.35	404.94	408.00	406.89	409.10	409.00	1
402 TO 401	17.46	0.100	19.140	0.90	0.09	8.11	5.0	15.06	4.88	39.56	16.24	12.59	24	0.52	405.94	405.85	408.00	408.00	409.25	409.10	2
403 TO 402	17.34	0.270	1.840	0.75	0.20	1.14	5.0	5.26	6.95	7.96	7.56	4.50	18	0.52	406.13	406.04	410.79	410.69	408.98	409.25	3
404 TO 403	34.00	0.700	1.570	0.60	0.42	0.94	5.0	5.14	6.99	6.59	7.43	3.73	18	0.50	406.40	406.23	411.02	410.88	408.98	408.98	4
405 TO 404	71.28	0.870	0.870	0.60	0.52	0.52	5.0	5.00	7.04	3.67	19.67	2.08	18	3.51	409.00	406.50	411.25	411.17	412.00	408.98	5
406 TO 402	58.58	17.200	17.200	0.40	6.88	6.88	15.0	15.00	4.88	33.60	47.28	10.70	24	4.37	408.00	405.44	410.52	409.22	412.00	409.25	6

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 10-ys.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0400.sws

APPENDIX C – STORM SEWER HGL CALCULATIONS

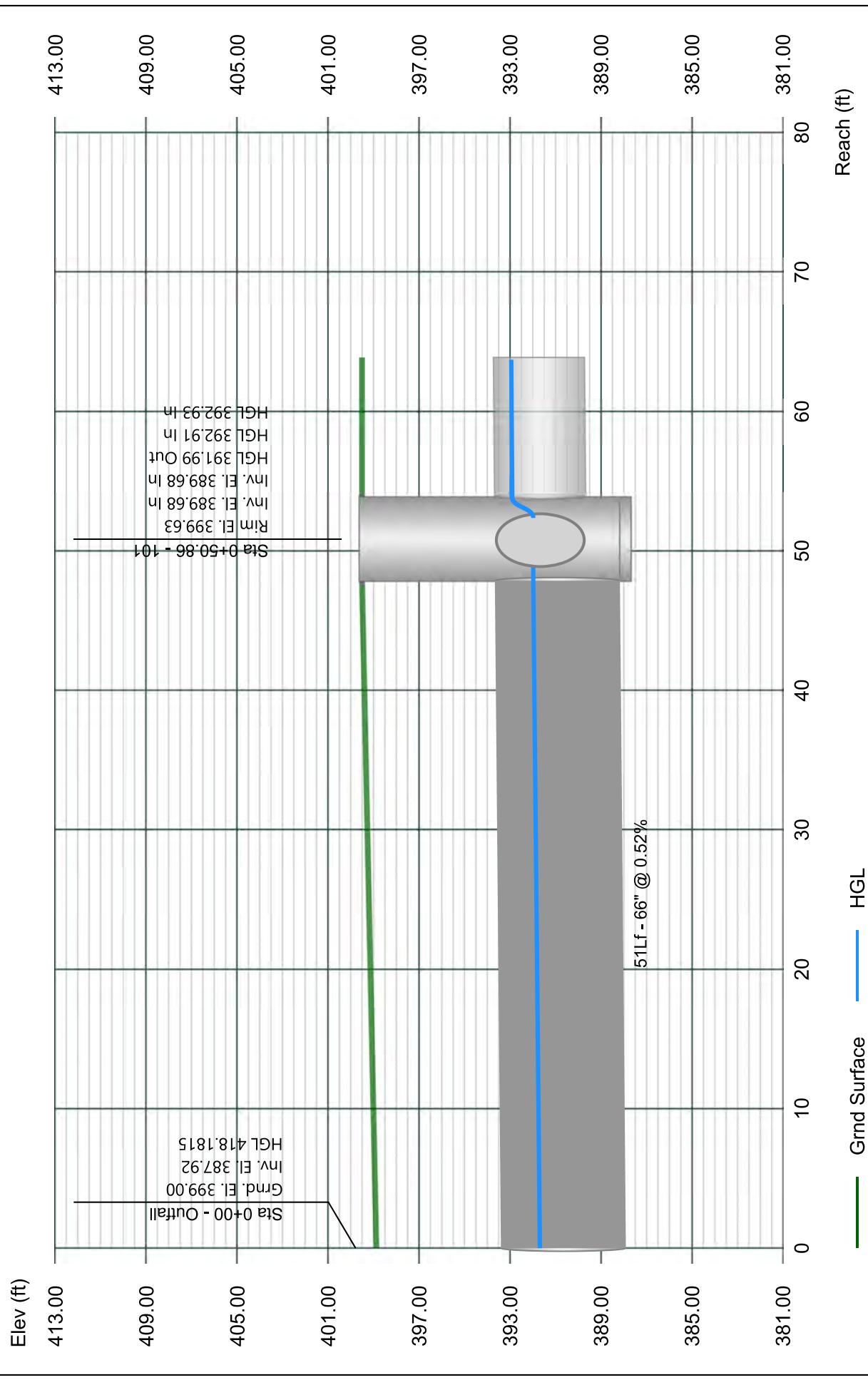
10-YEAR HGL

Line 1 - 101 TO 100

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

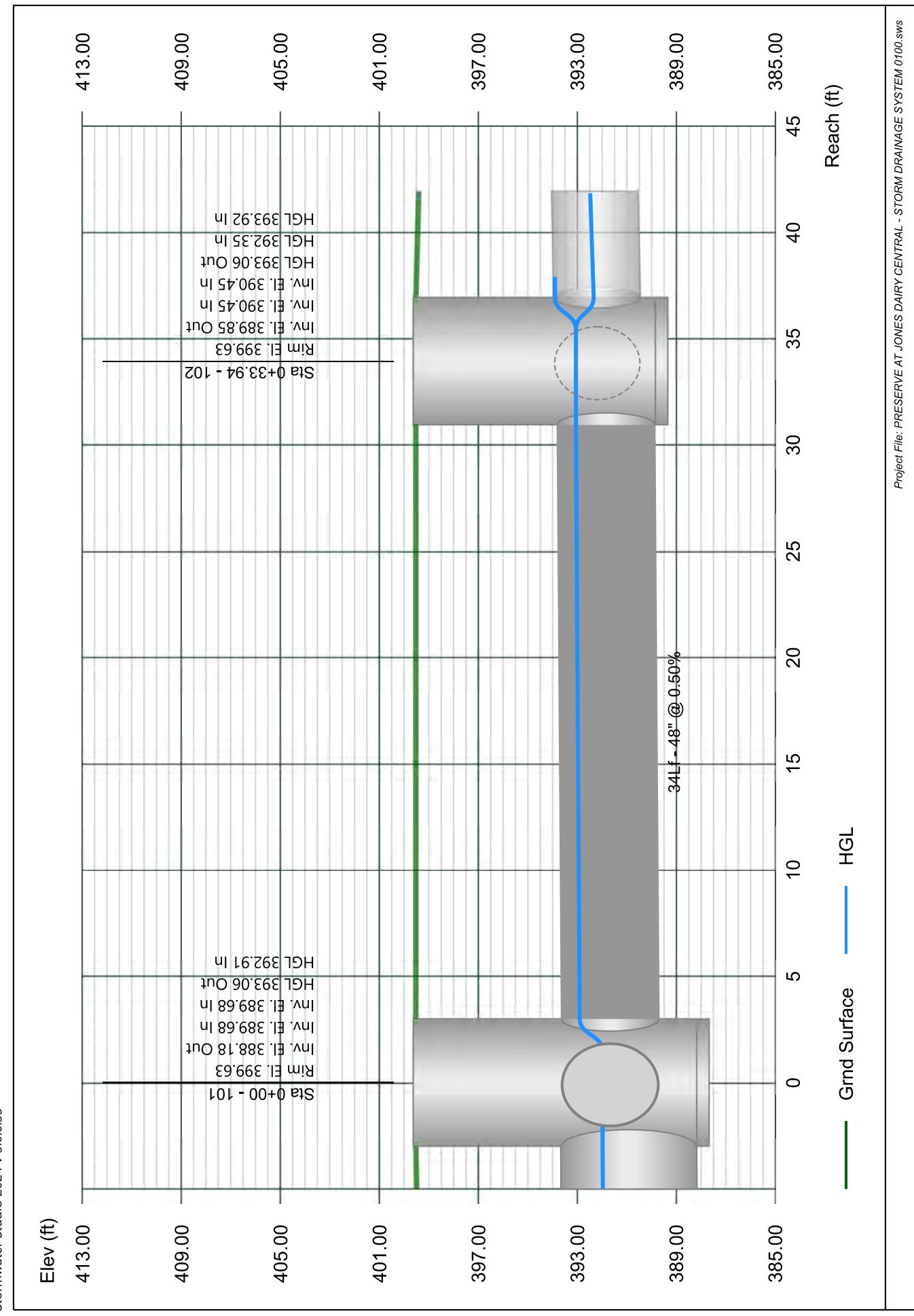


Line 2 - 102 TO 101

Stormwater Studio 2024 v 3.0.0.33

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01-19-2024

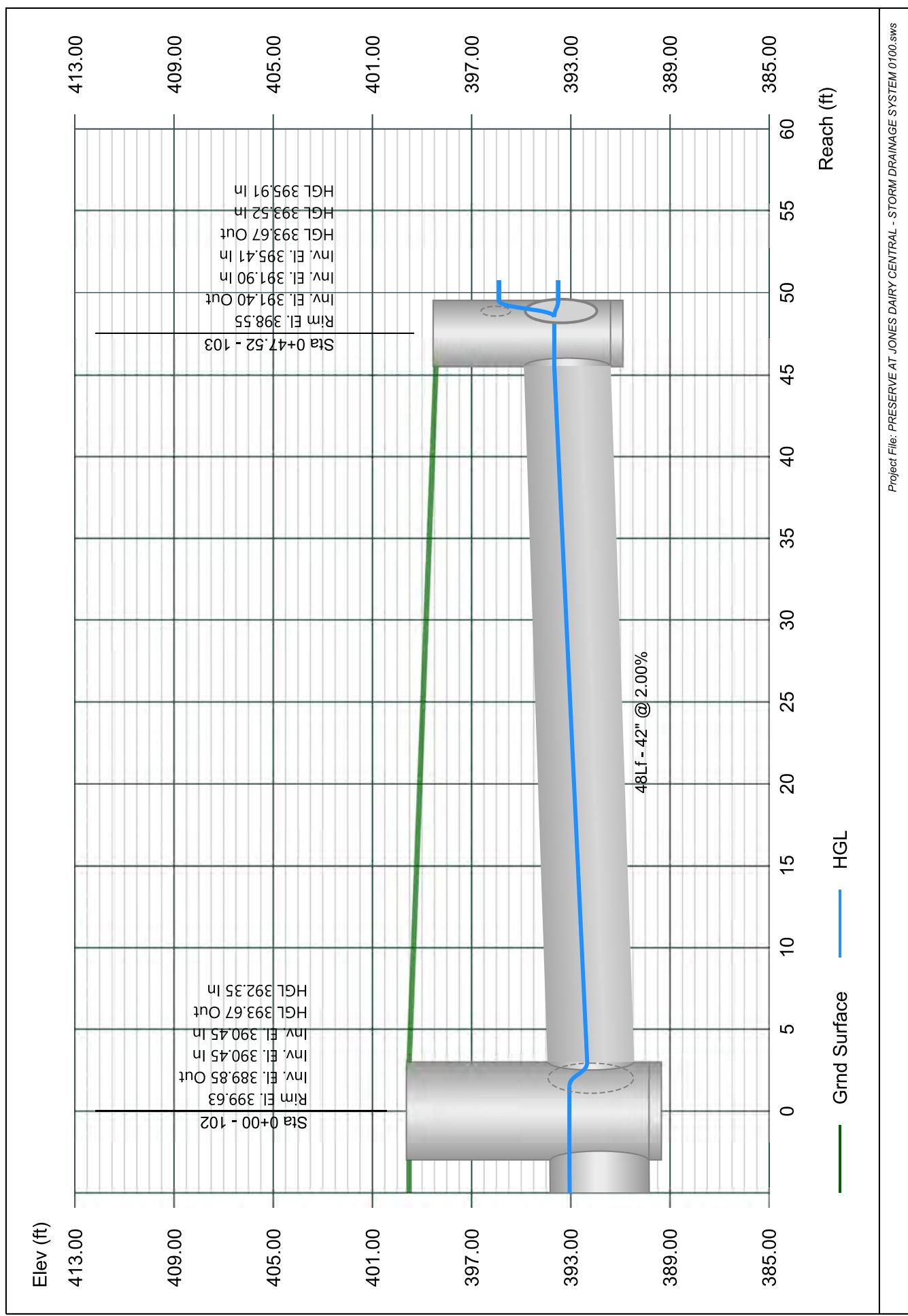


Line 3 - 103 TO 102

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

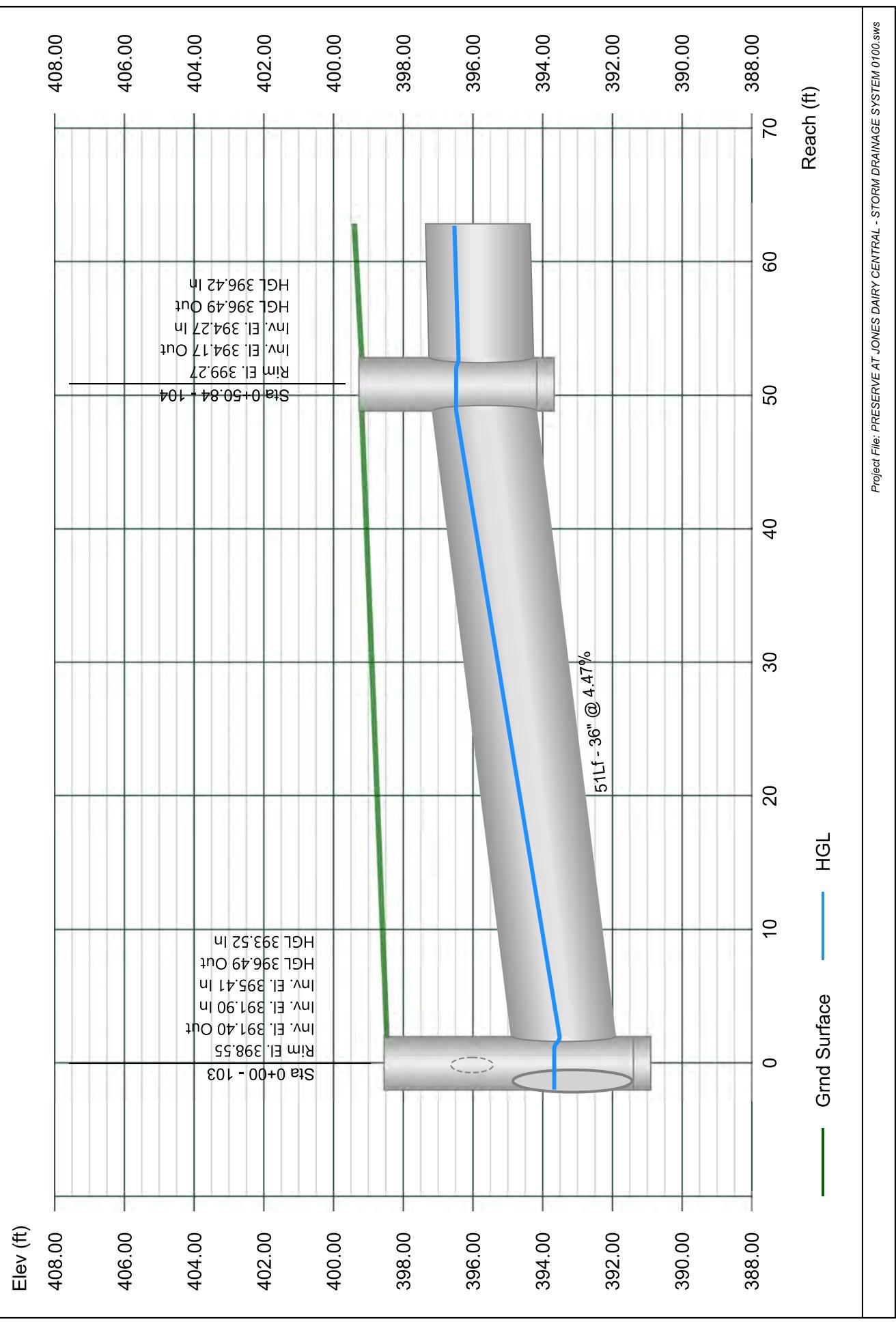


Line 4 - 104 TO 103

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

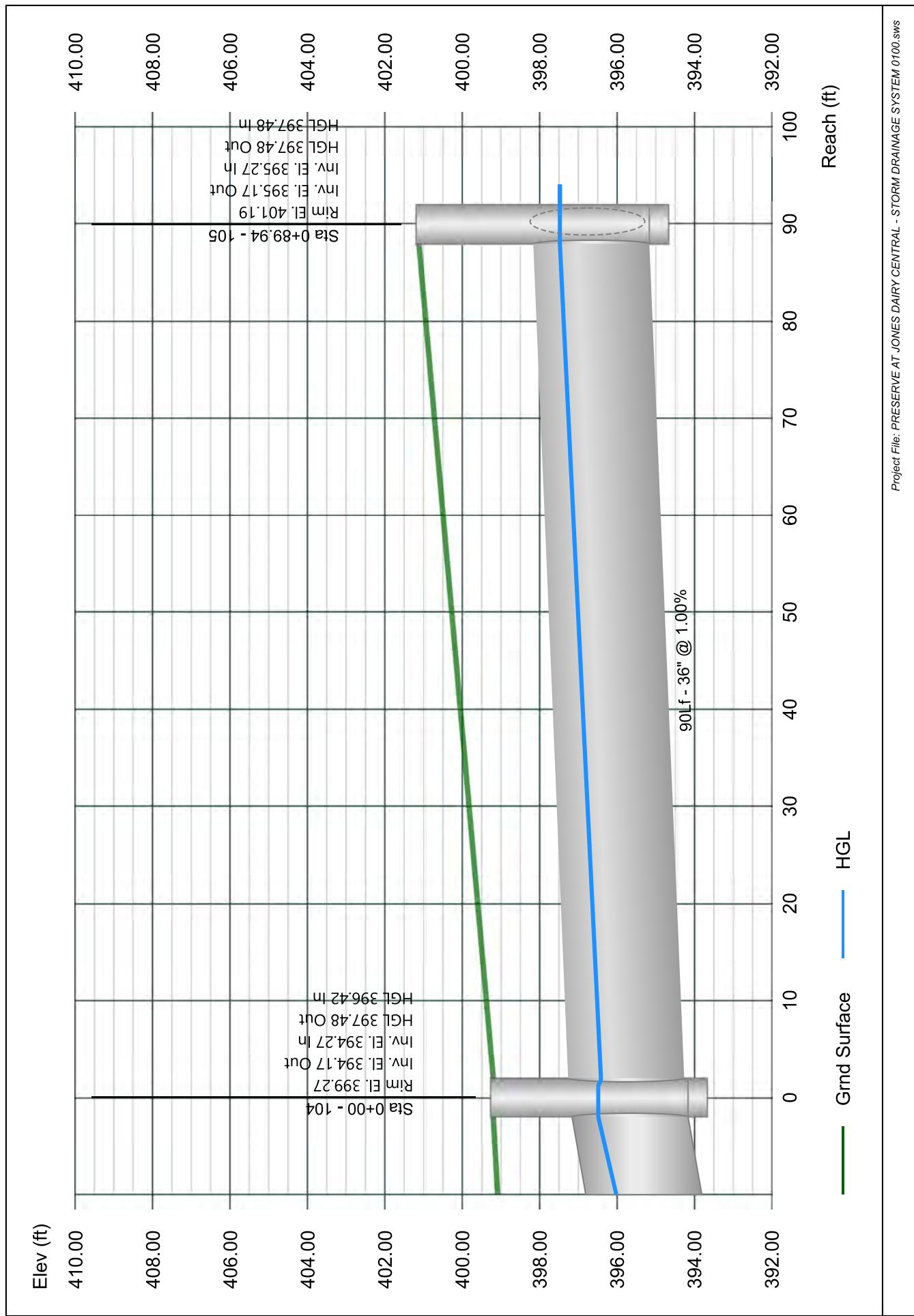


Line 5 - 105 TO 104

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

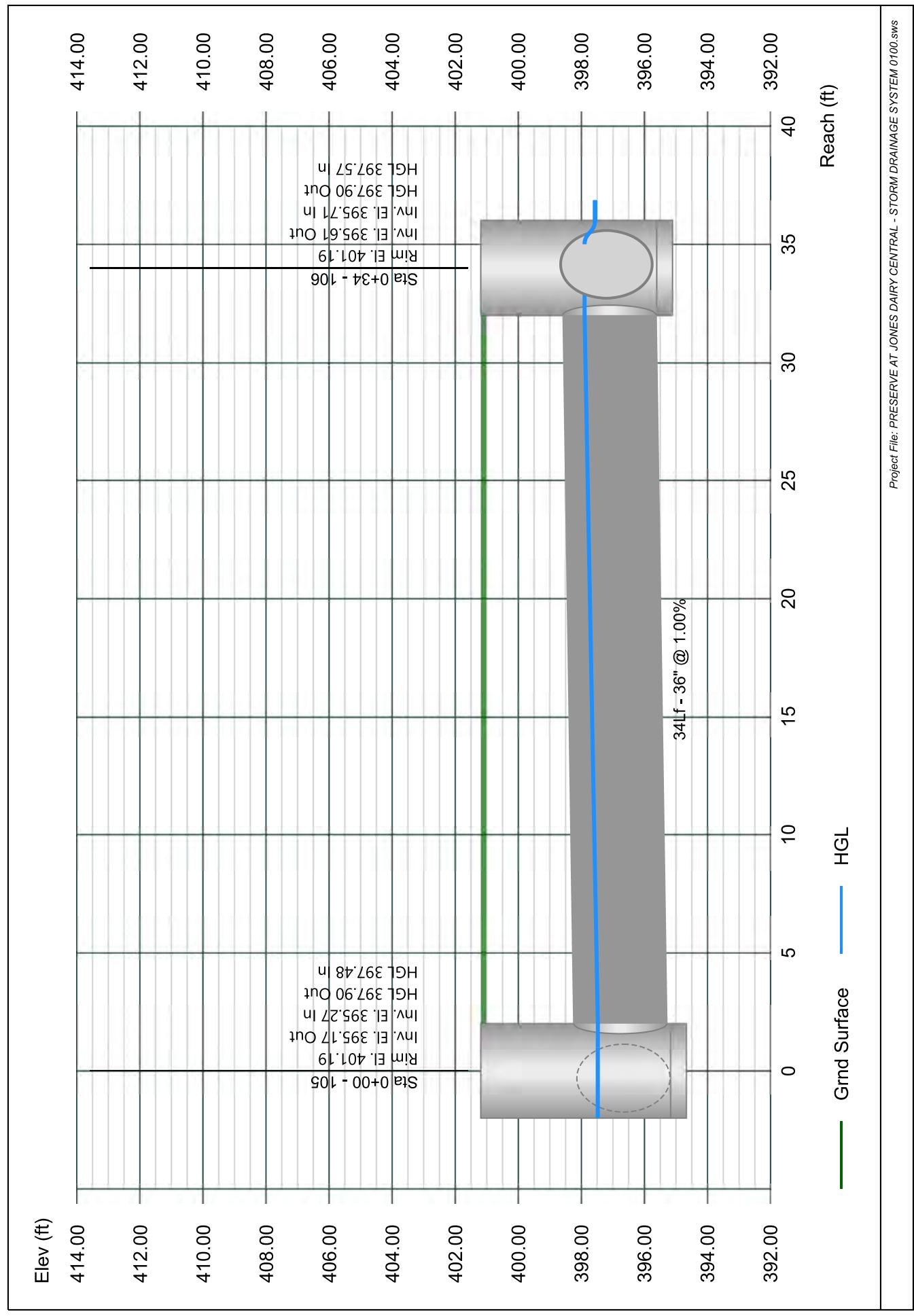


Line 6 - 106 TO 105

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

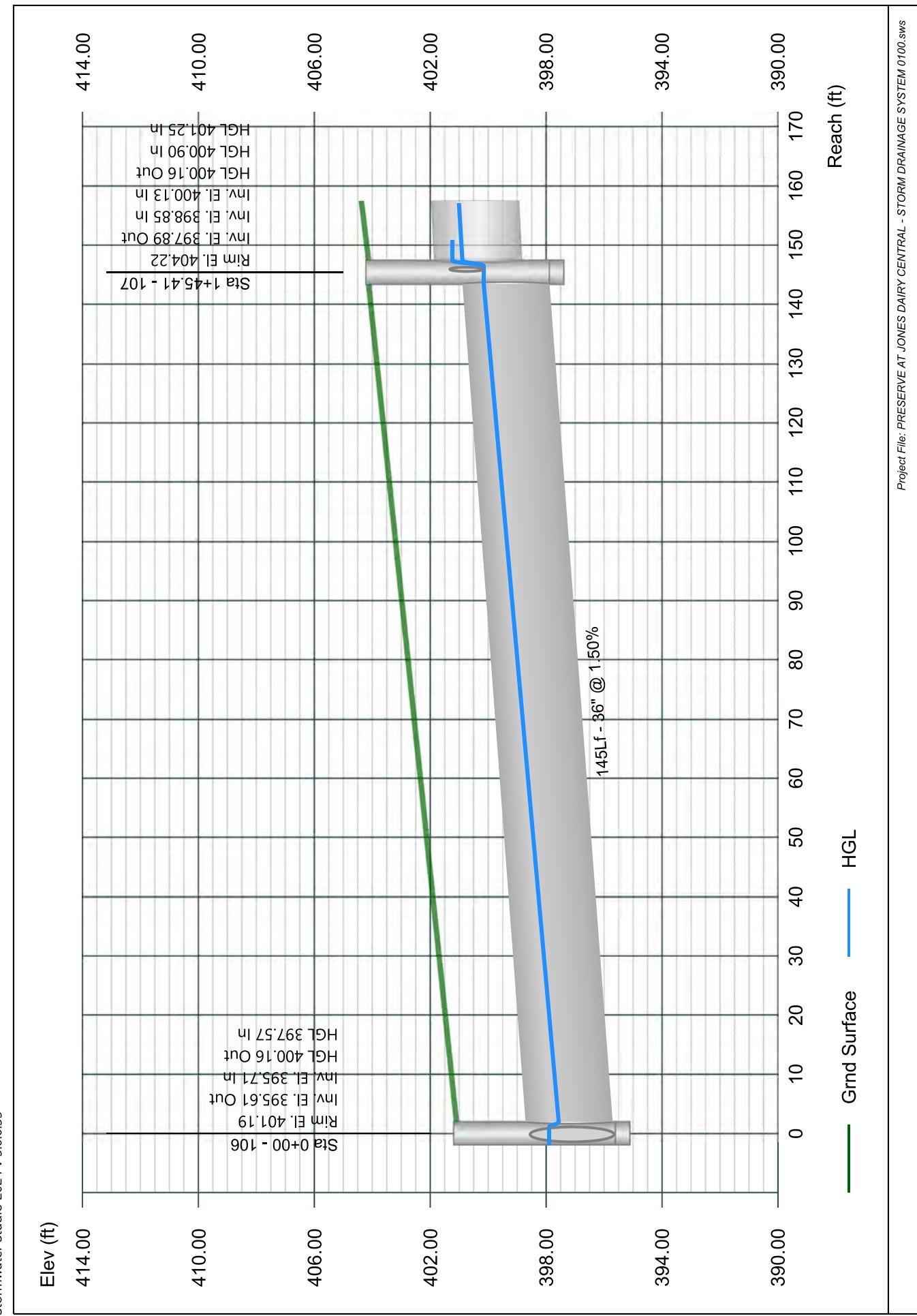


Line 7 - 107 TO 106

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

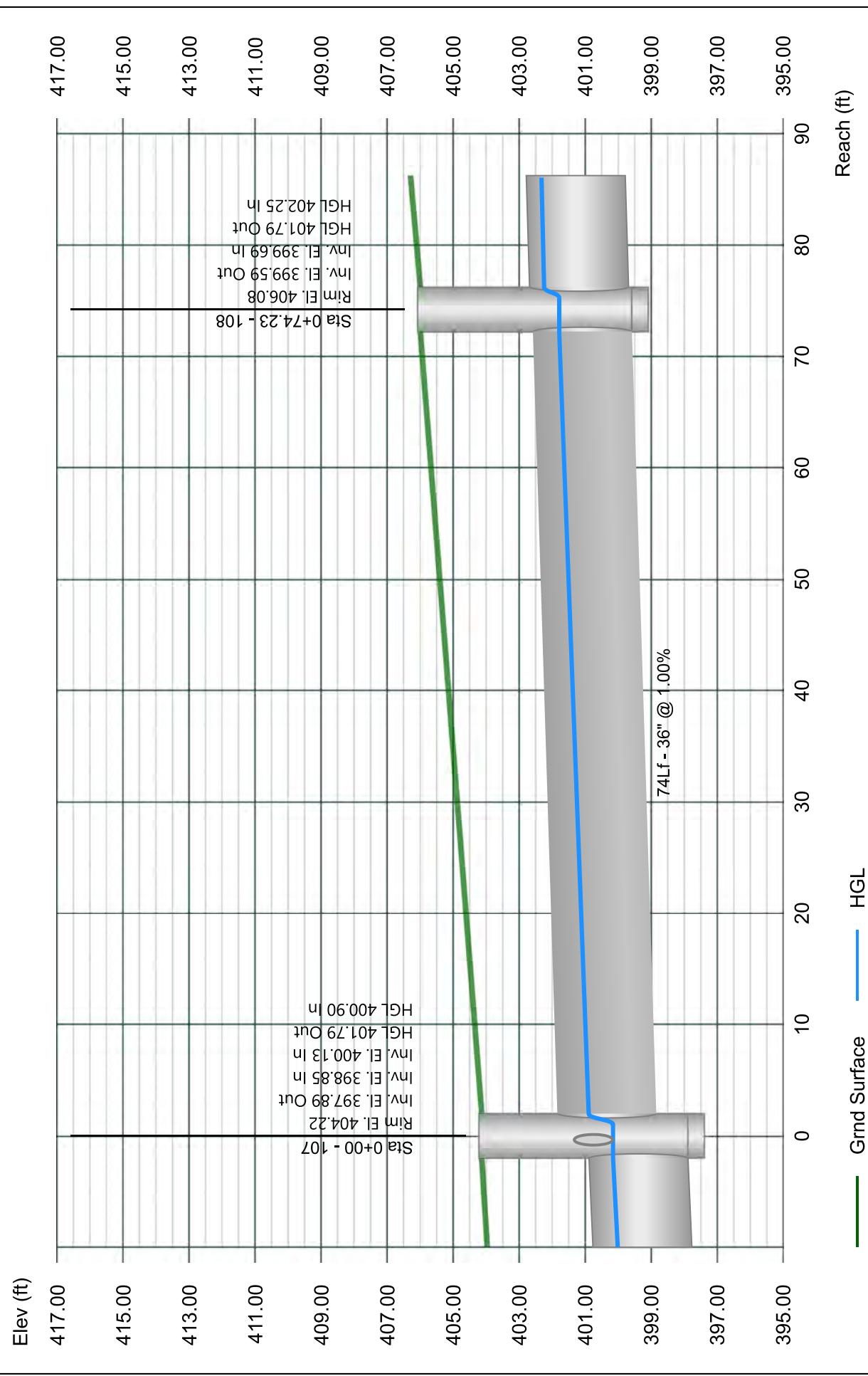


Line 8 - 108 TO 107

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

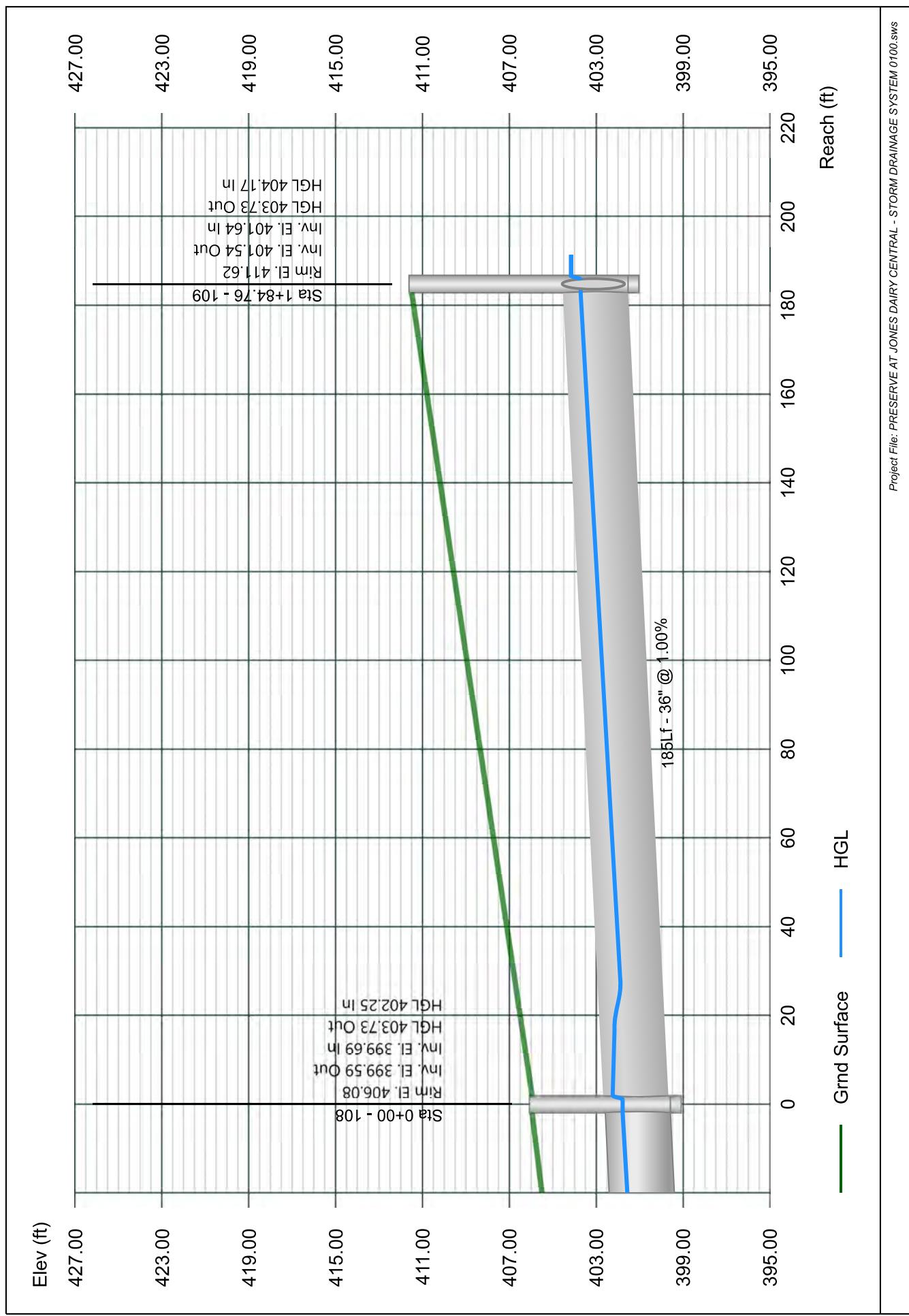


Line 9 - 109 TO 108

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

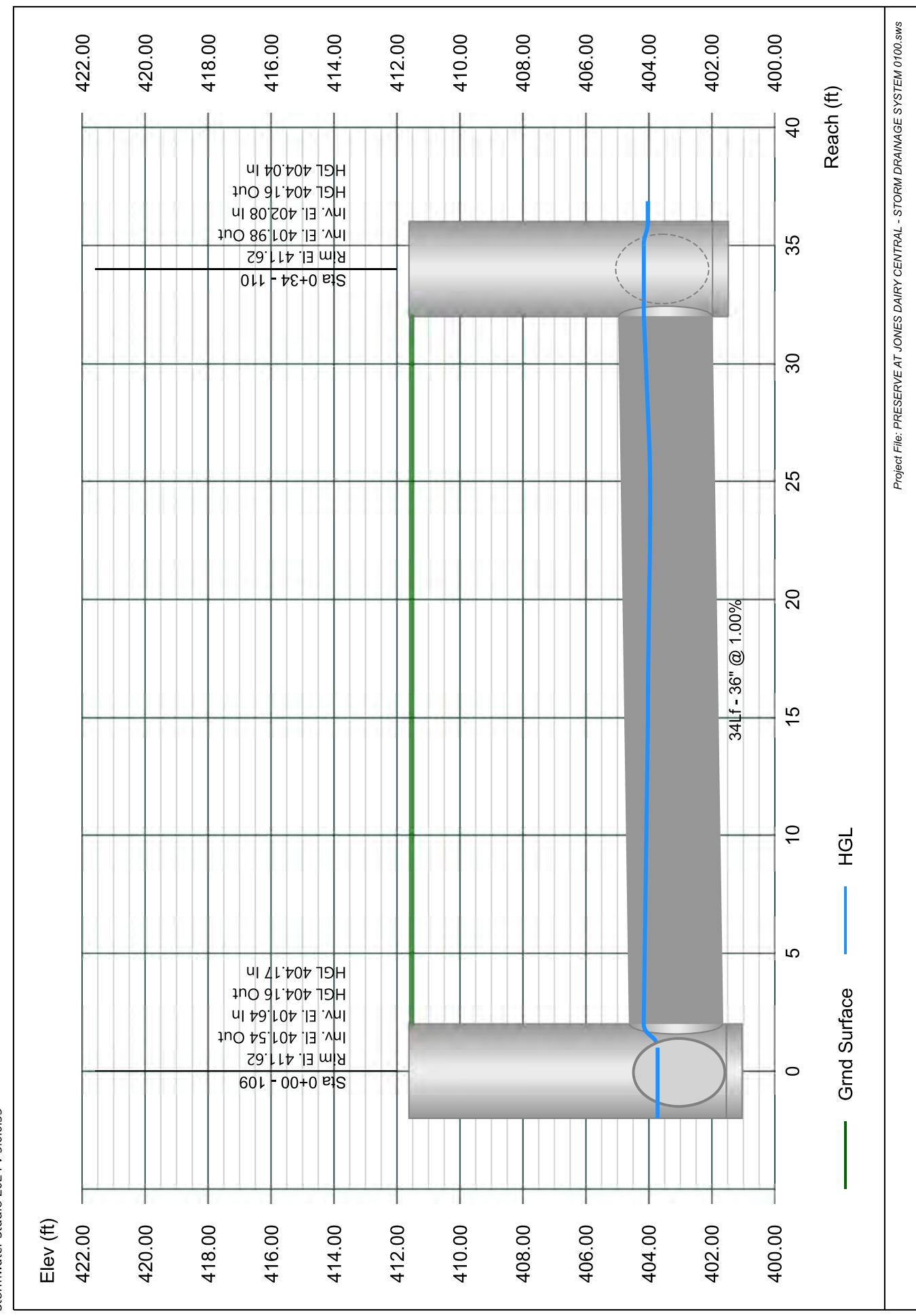


Line 10 - 110 TO 109

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

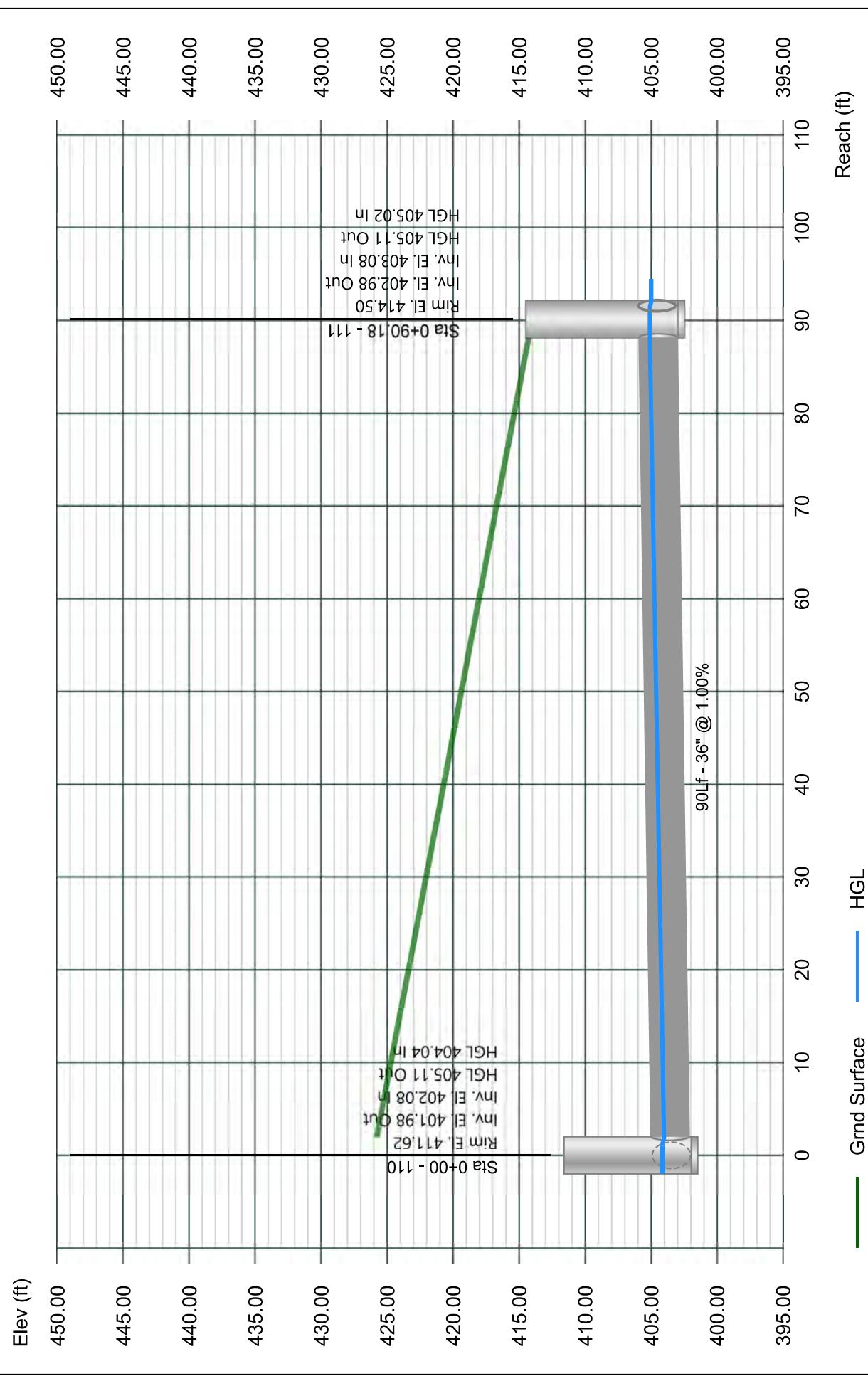


Line 11 - 111 TO 110

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

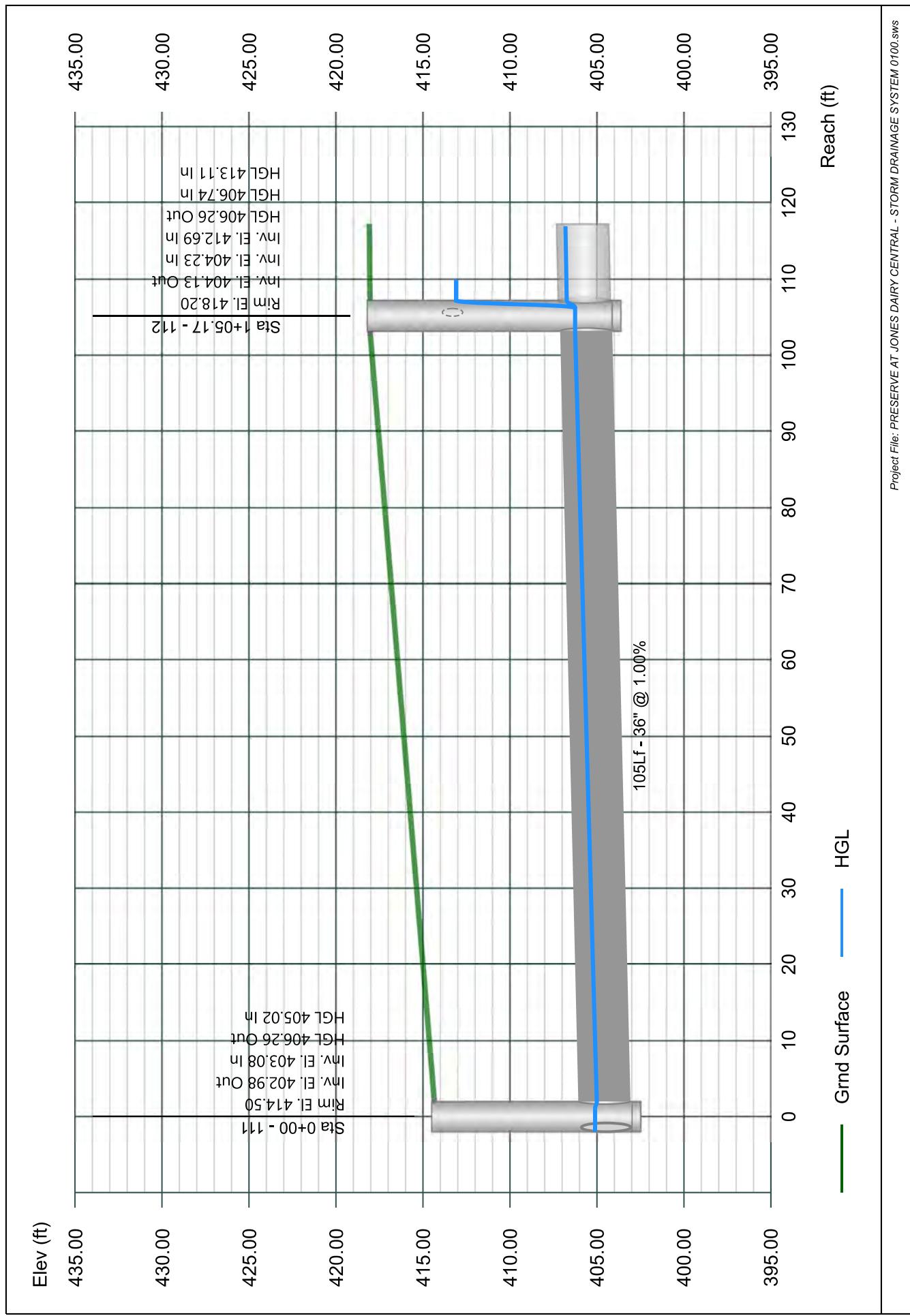


Line 12 - 112 TO 111

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

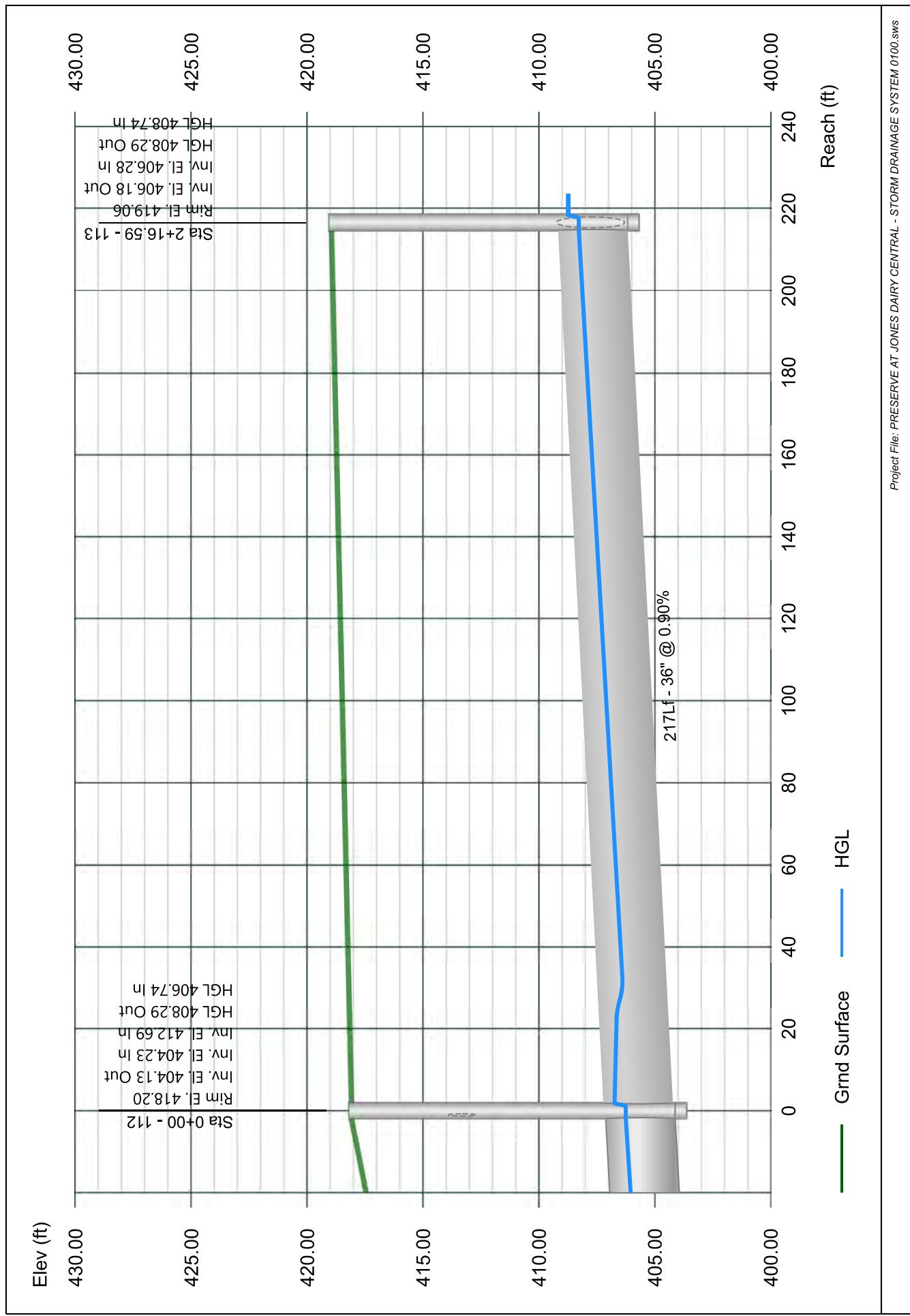


Line 13 - 113 TO 112

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

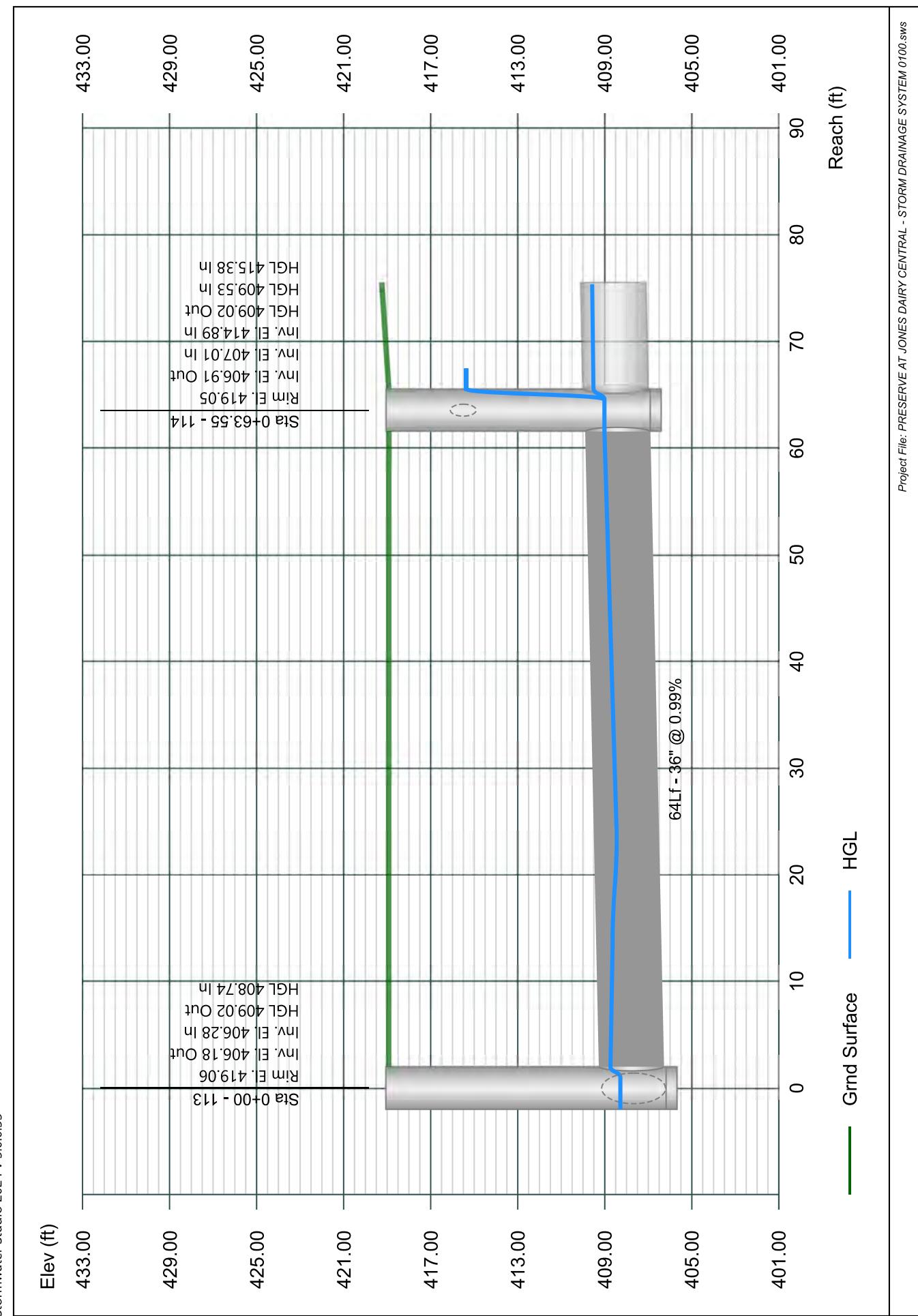


Line 14 - 114 TO 113

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

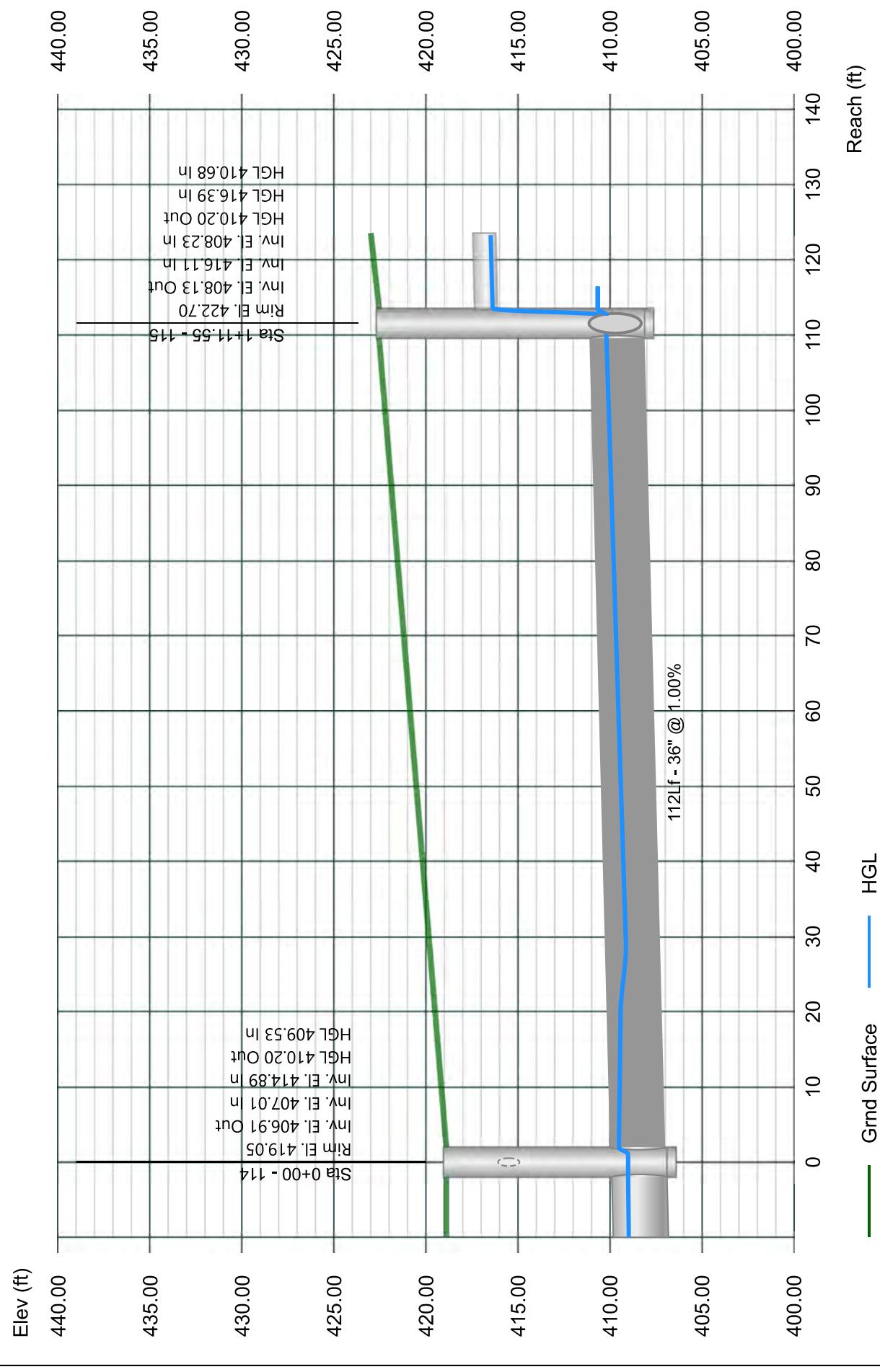


Line 15 - 115 TO 114

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

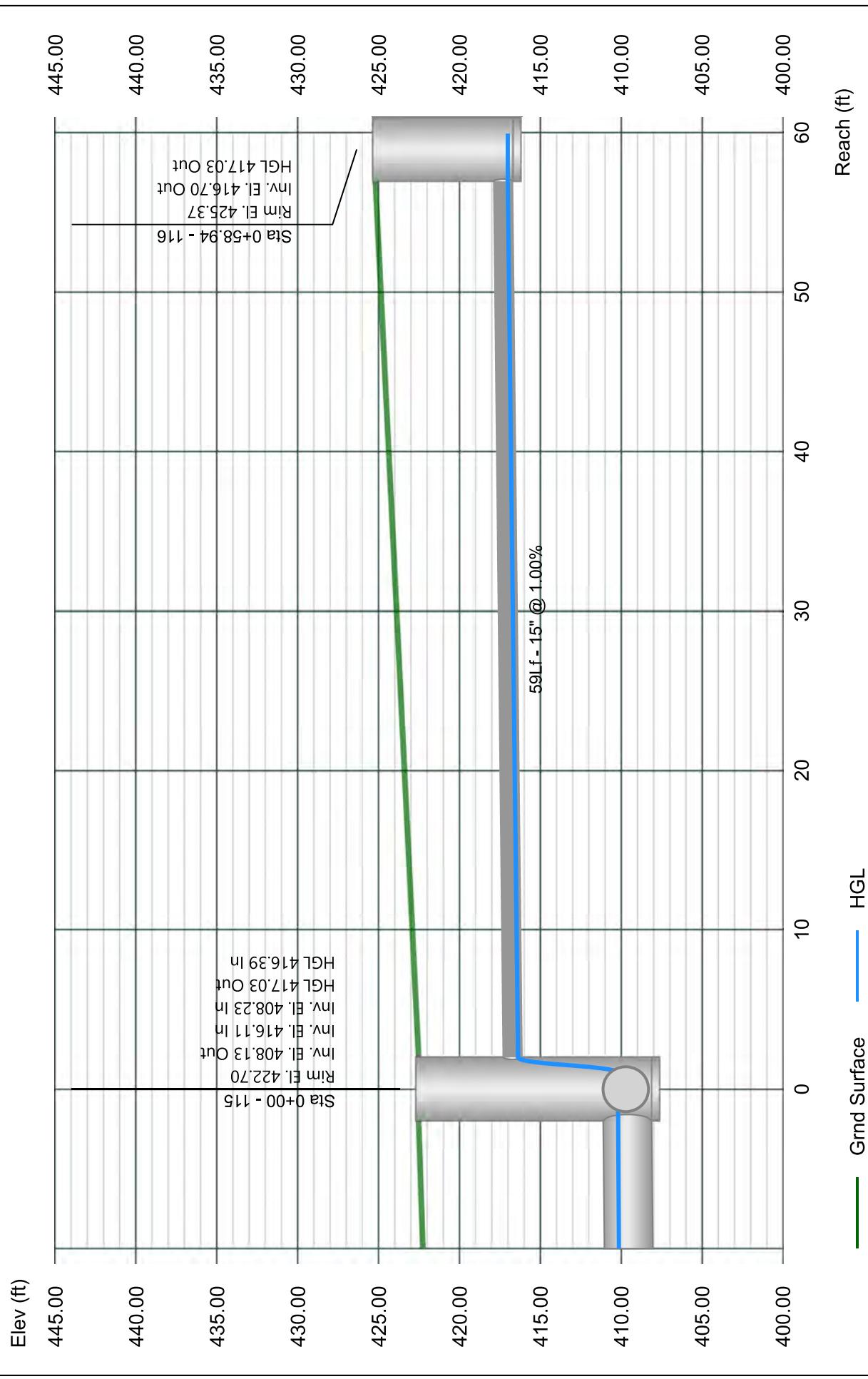


Line 16 - 116 TO 115

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

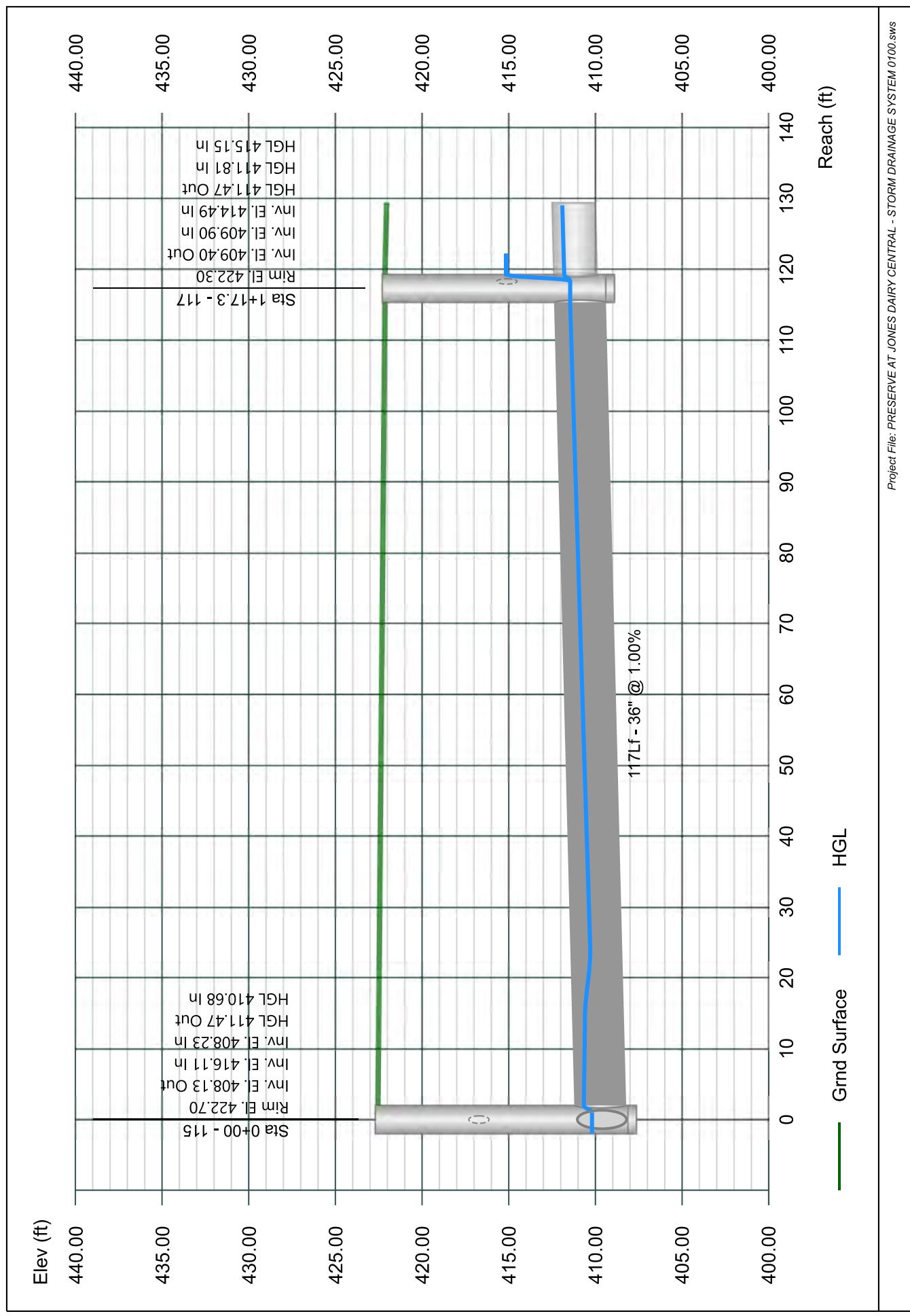


Line 17 - 117 TO 115

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

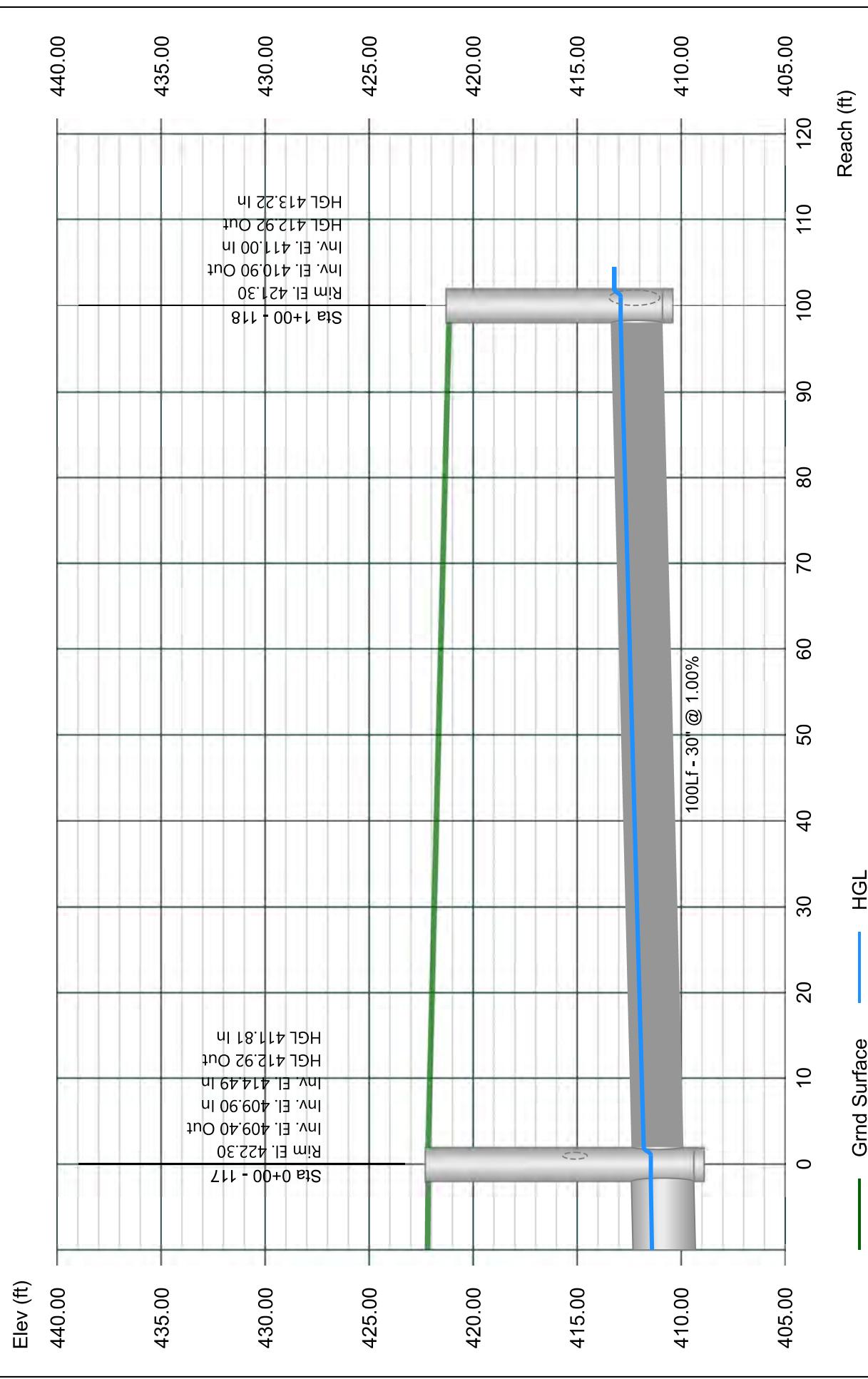


Line 18 - 118 TO 117

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

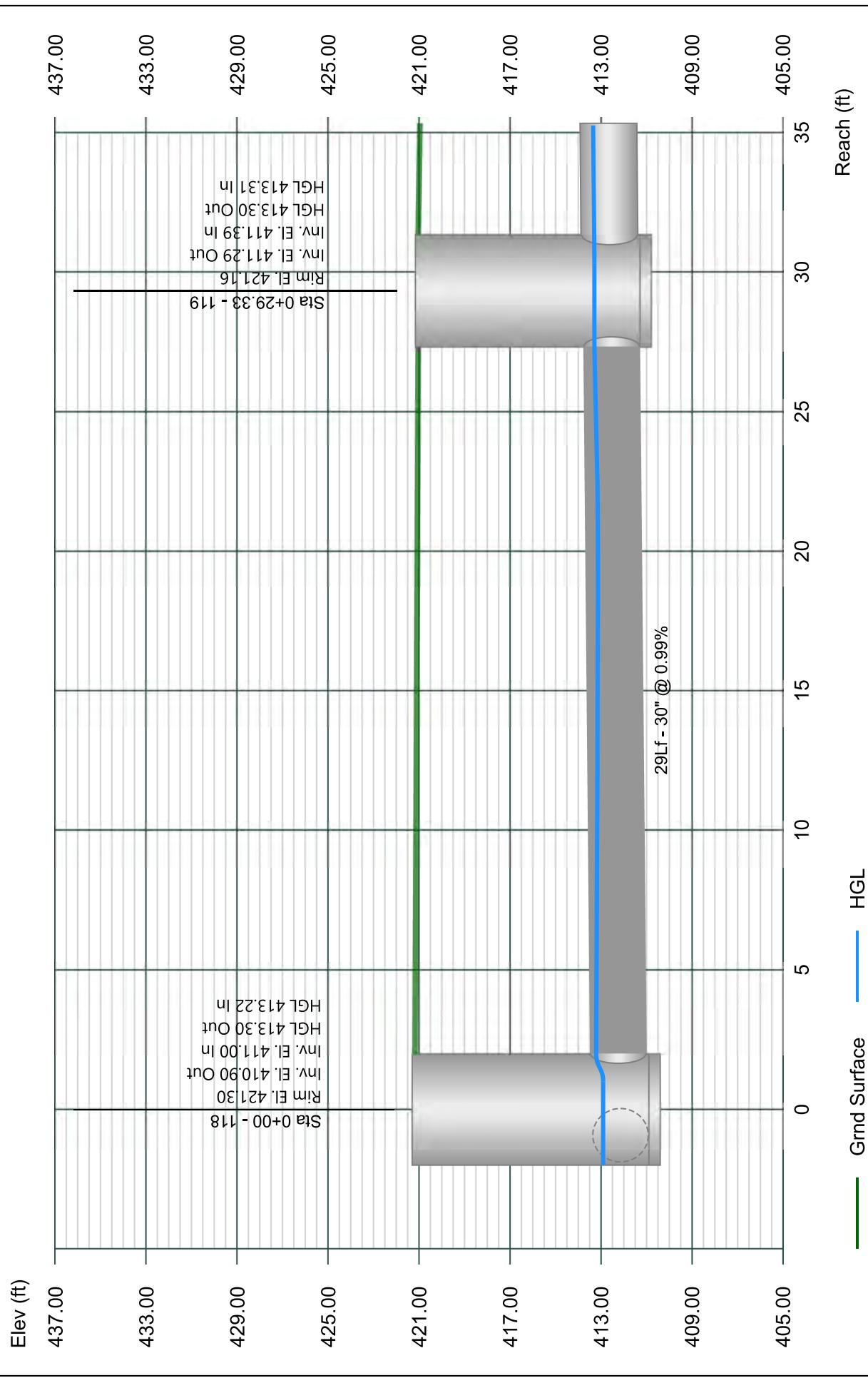


Line 19 - 119 TO 118

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

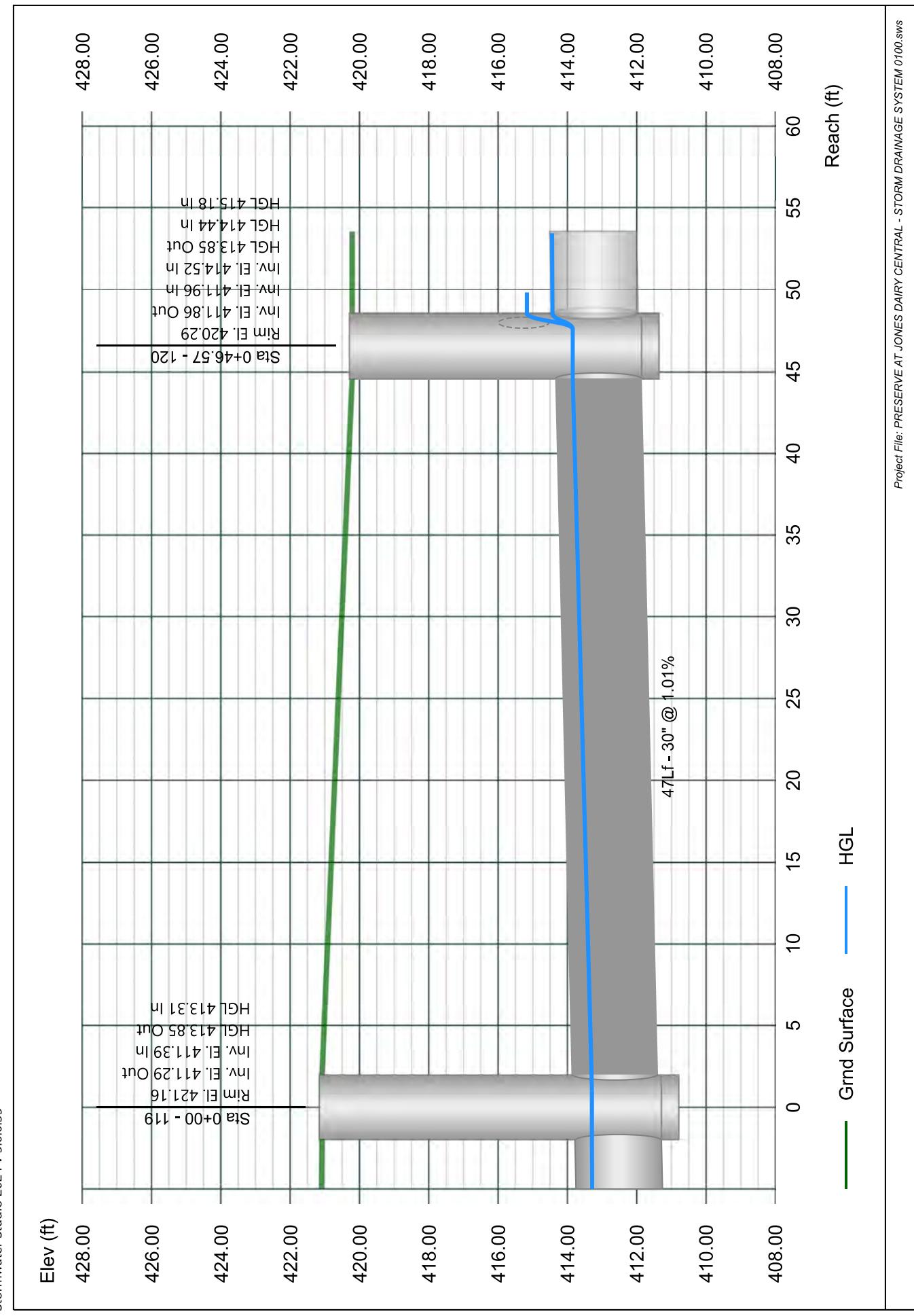


Line 20 - 120 TO 119

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

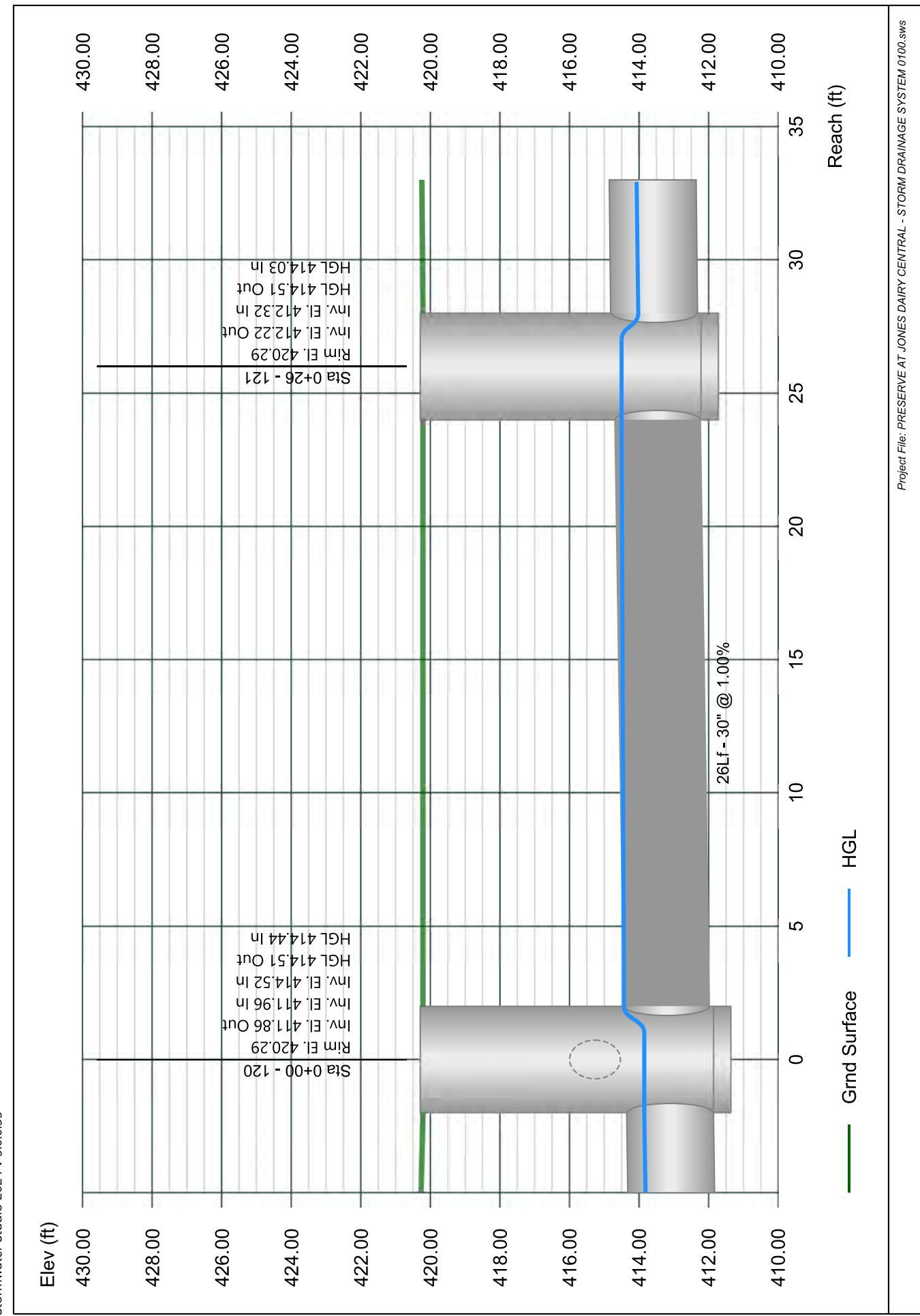


Line 21 - 121 TO 120

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

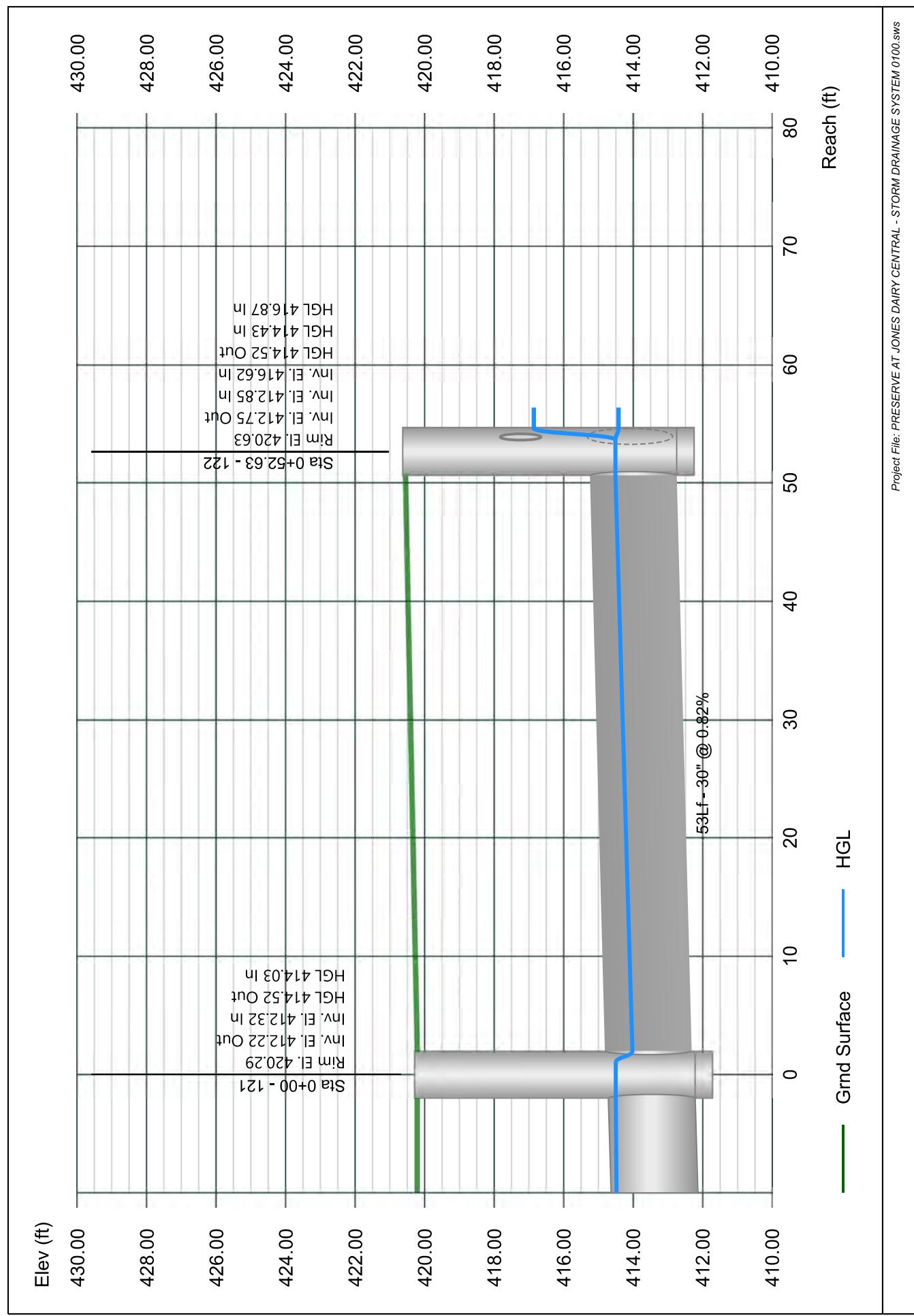


Line 22 - 122 TO 121

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

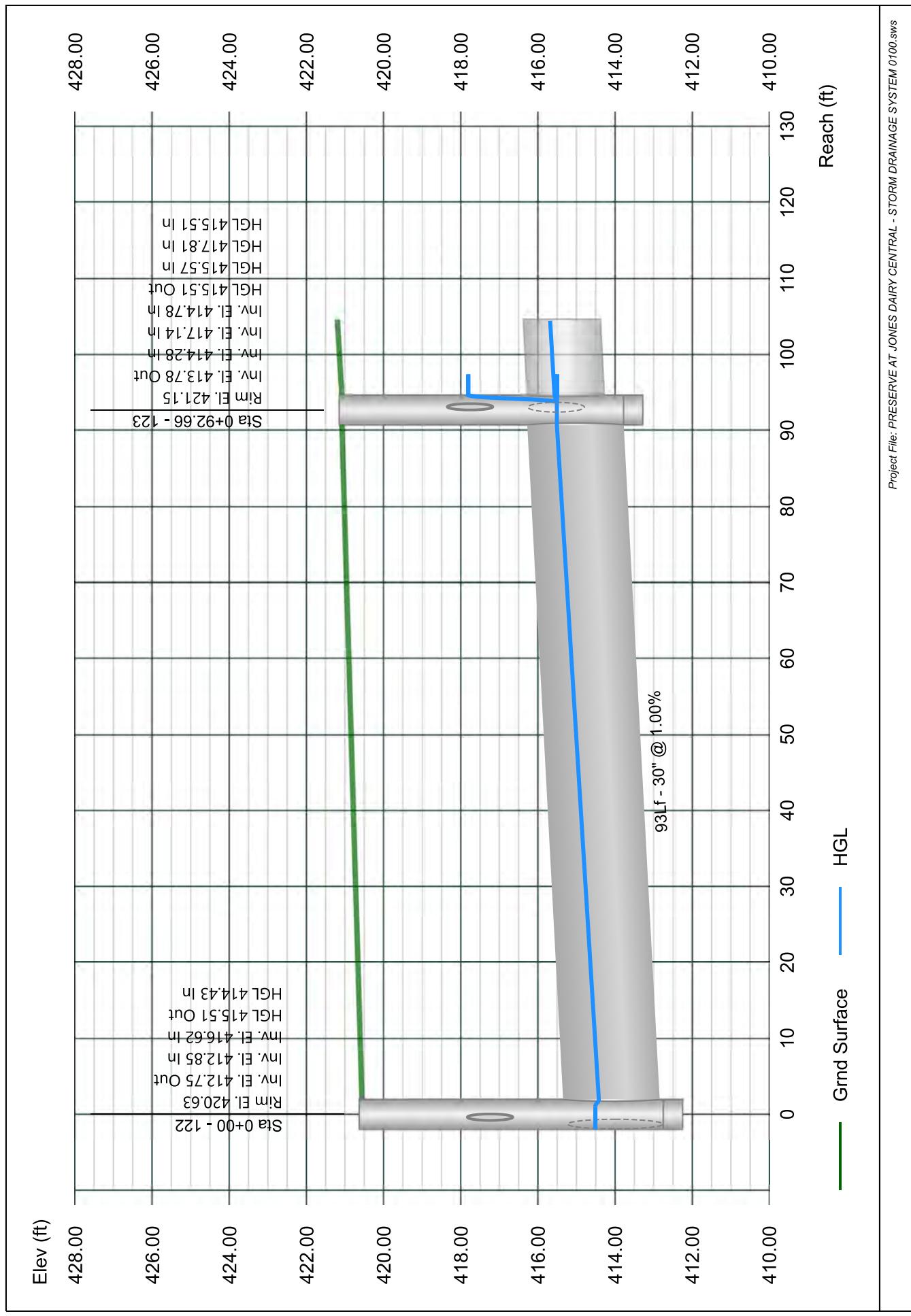


Line 23 - 123 TO 122

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

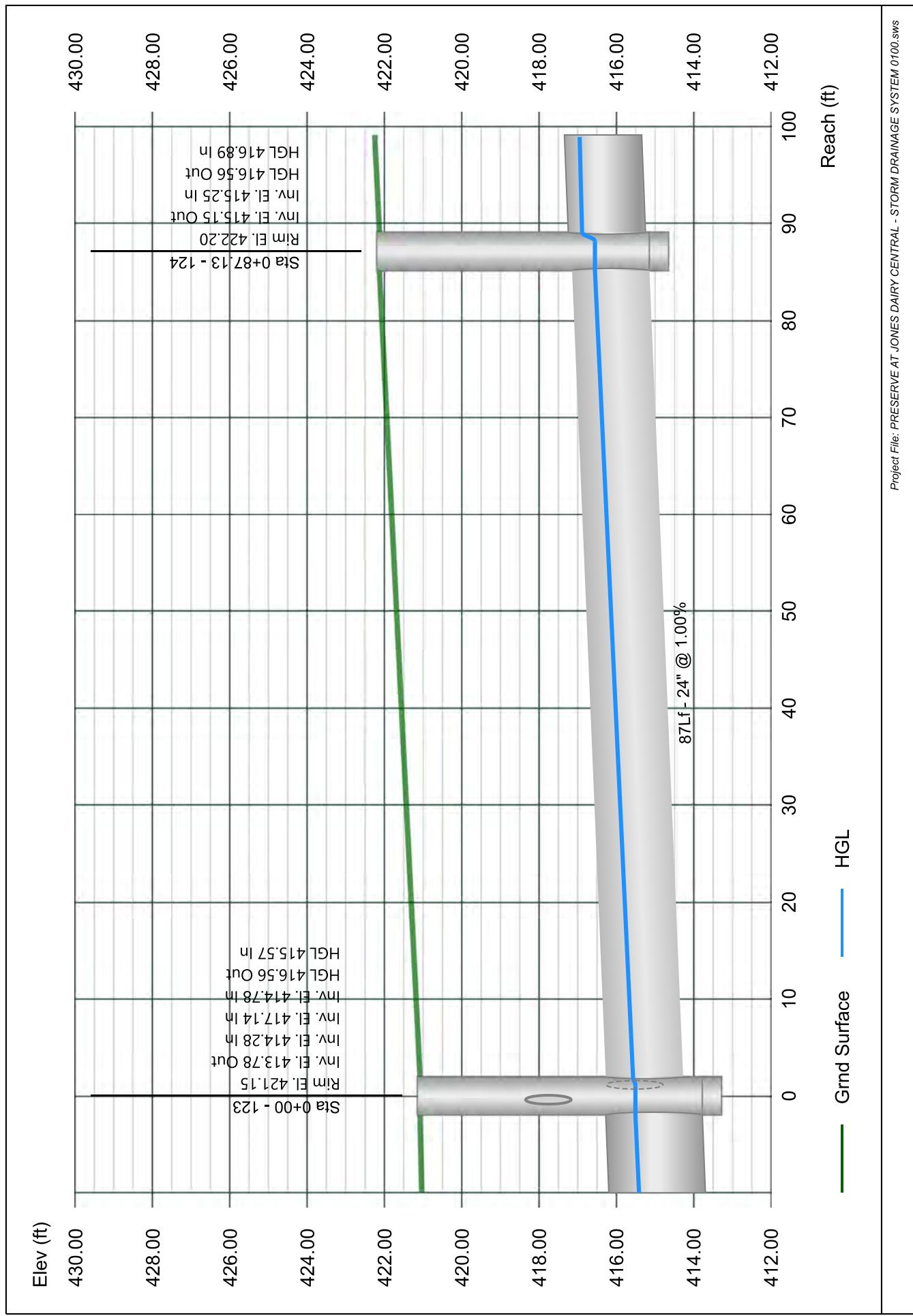


Line 24 - 124 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

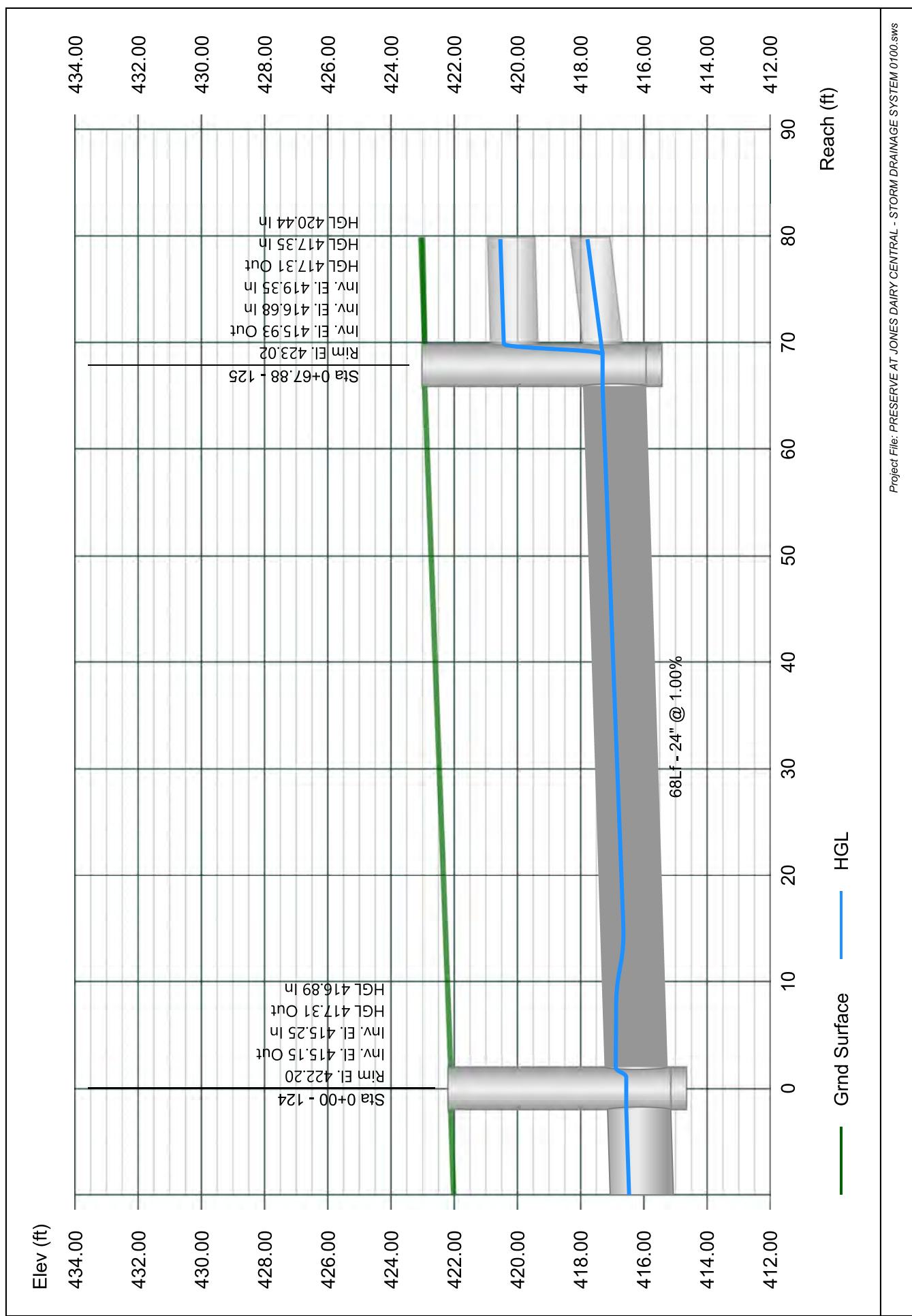


Line 25 - 125 TO 124

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

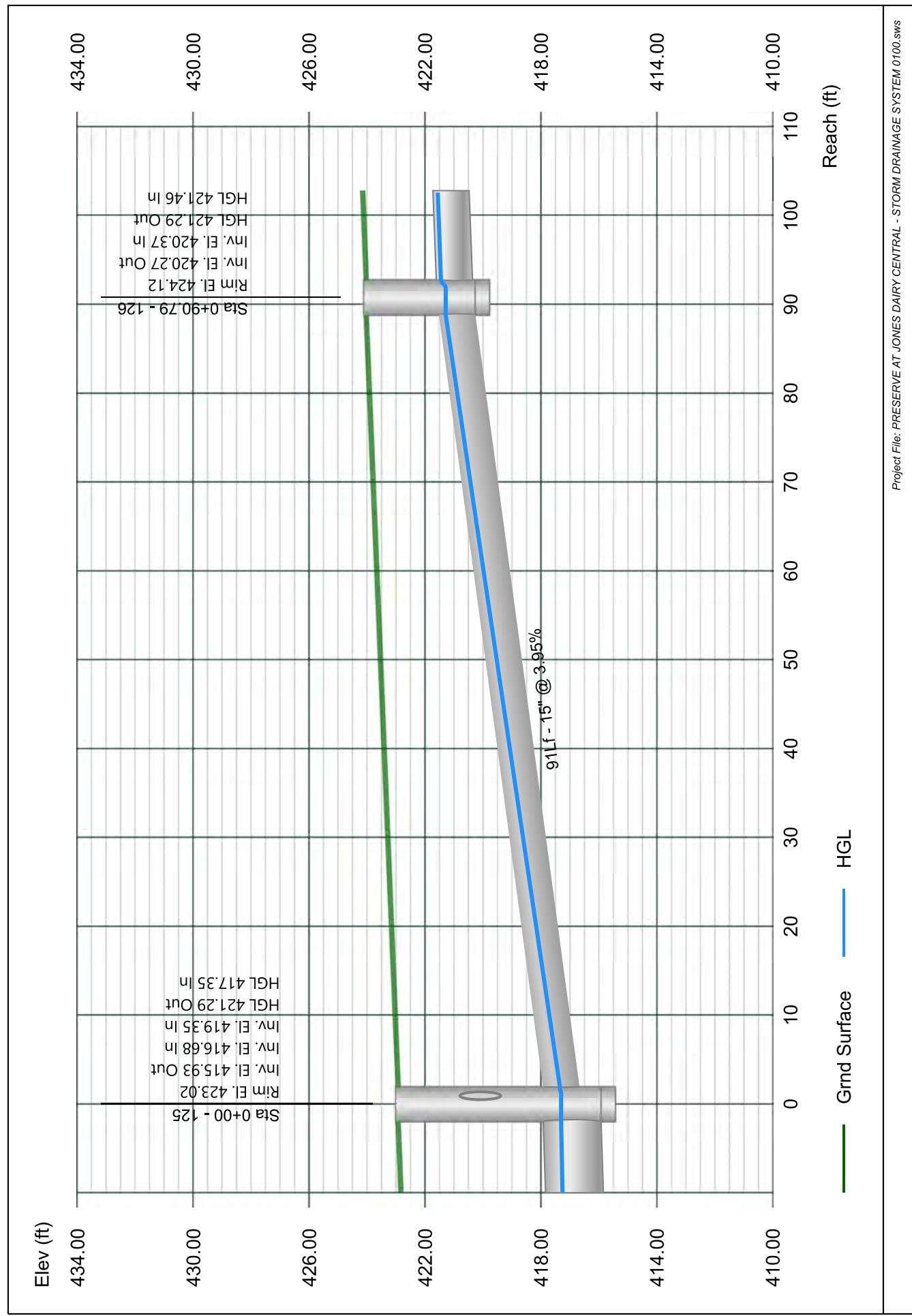


Line 26 - 126 TO 125

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

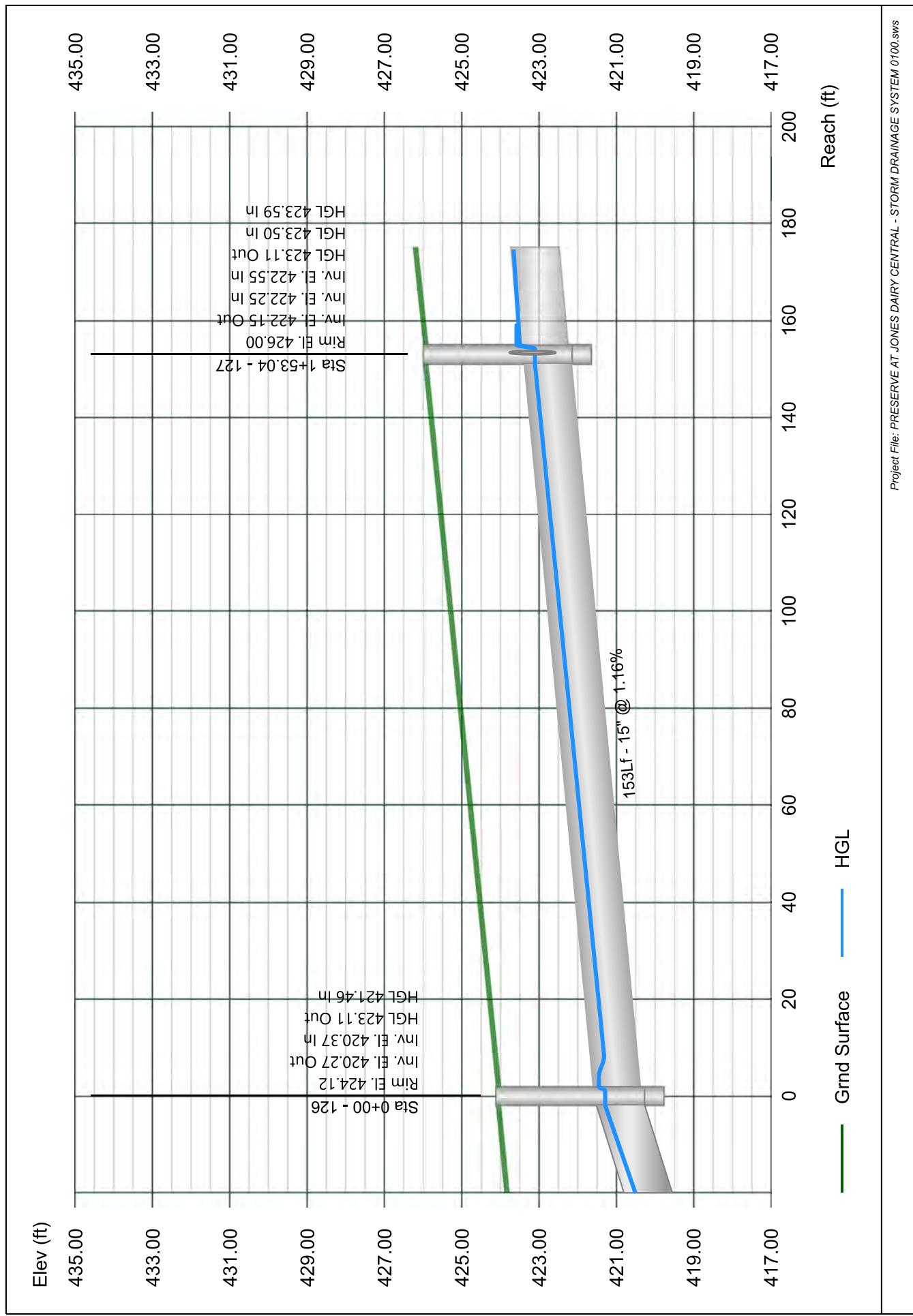


Line 27 - 127 TO 126

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

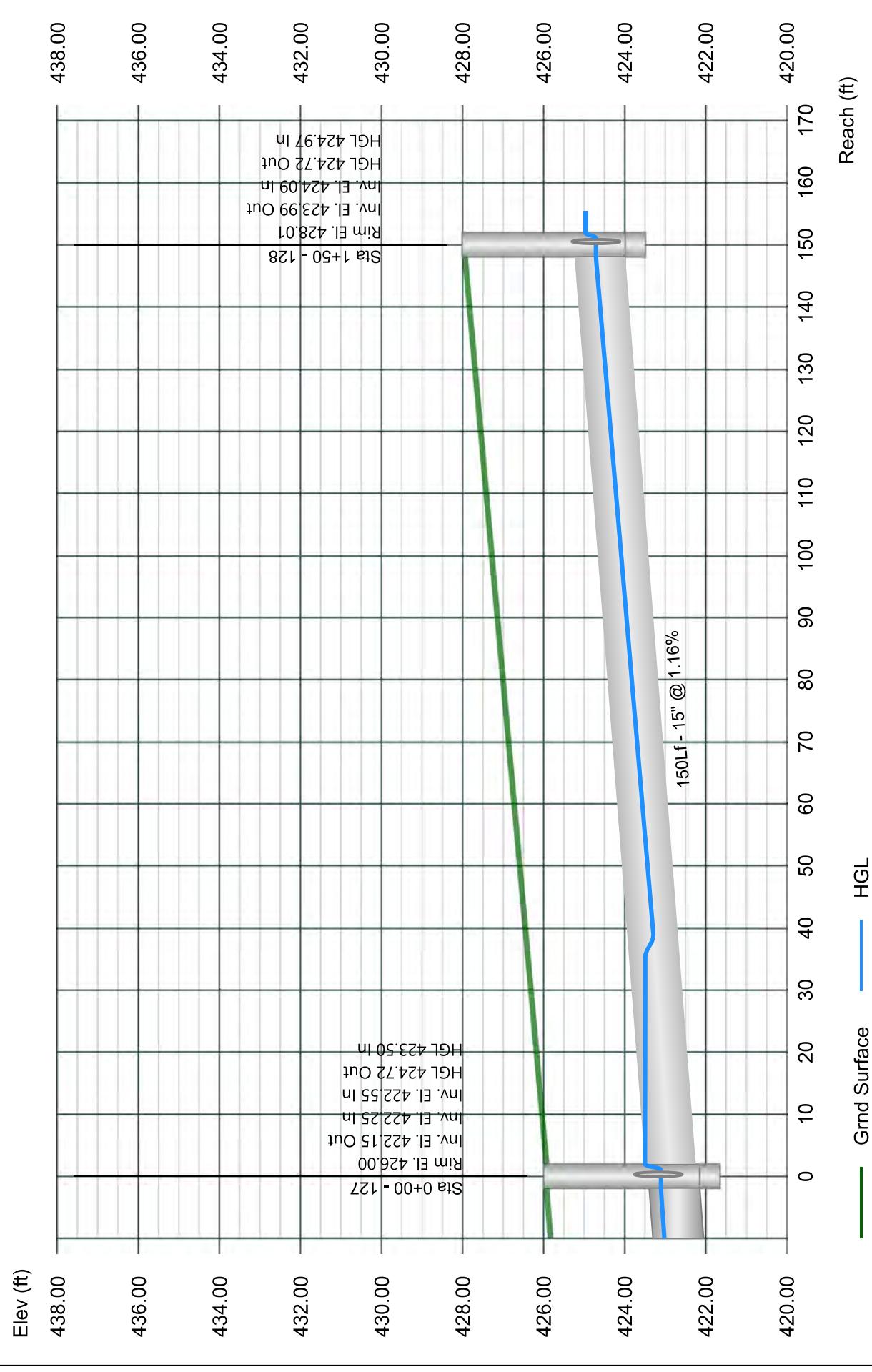


Line 28 - 128 TO 127

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

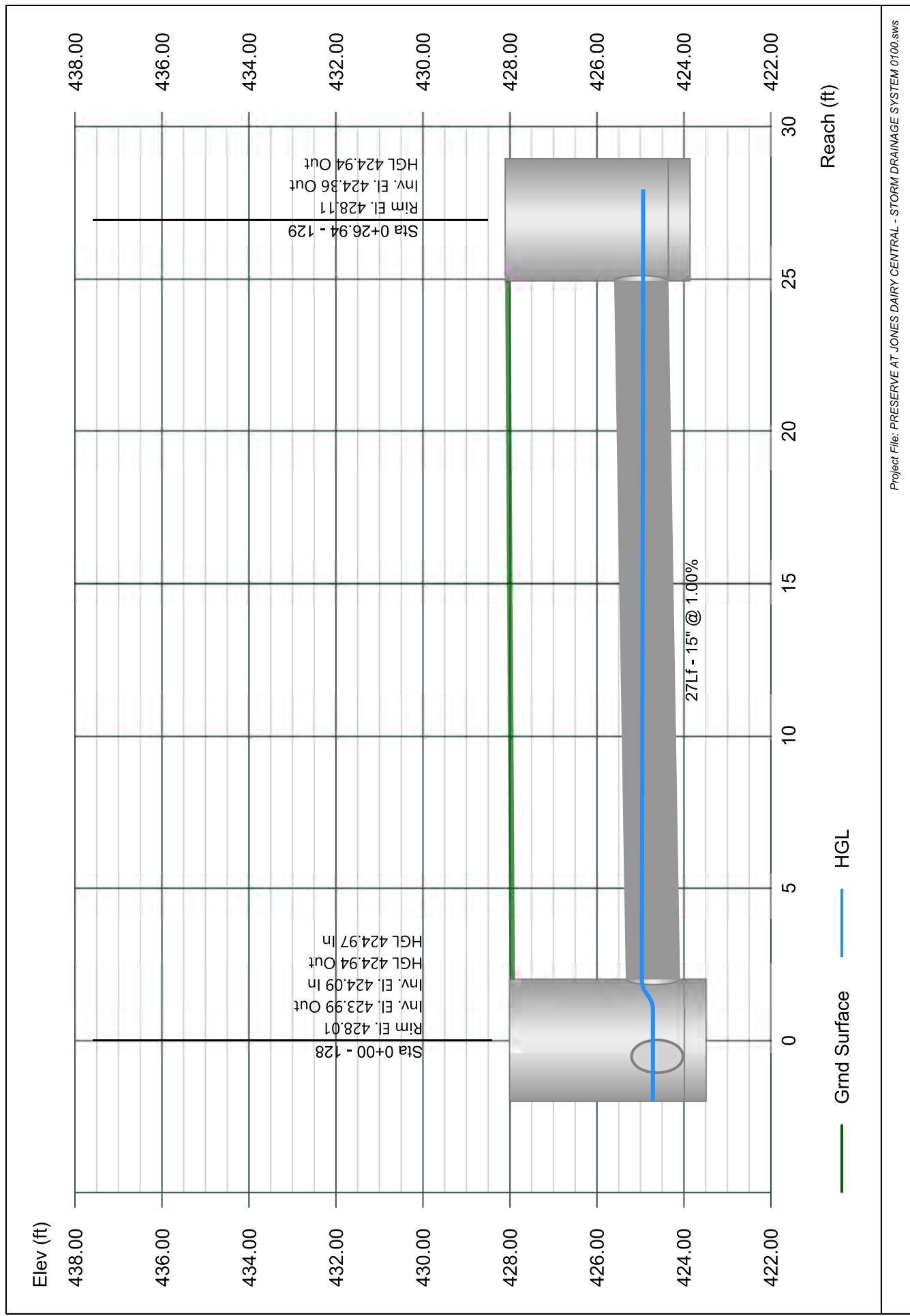


Line 29 - 129 TO 128

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

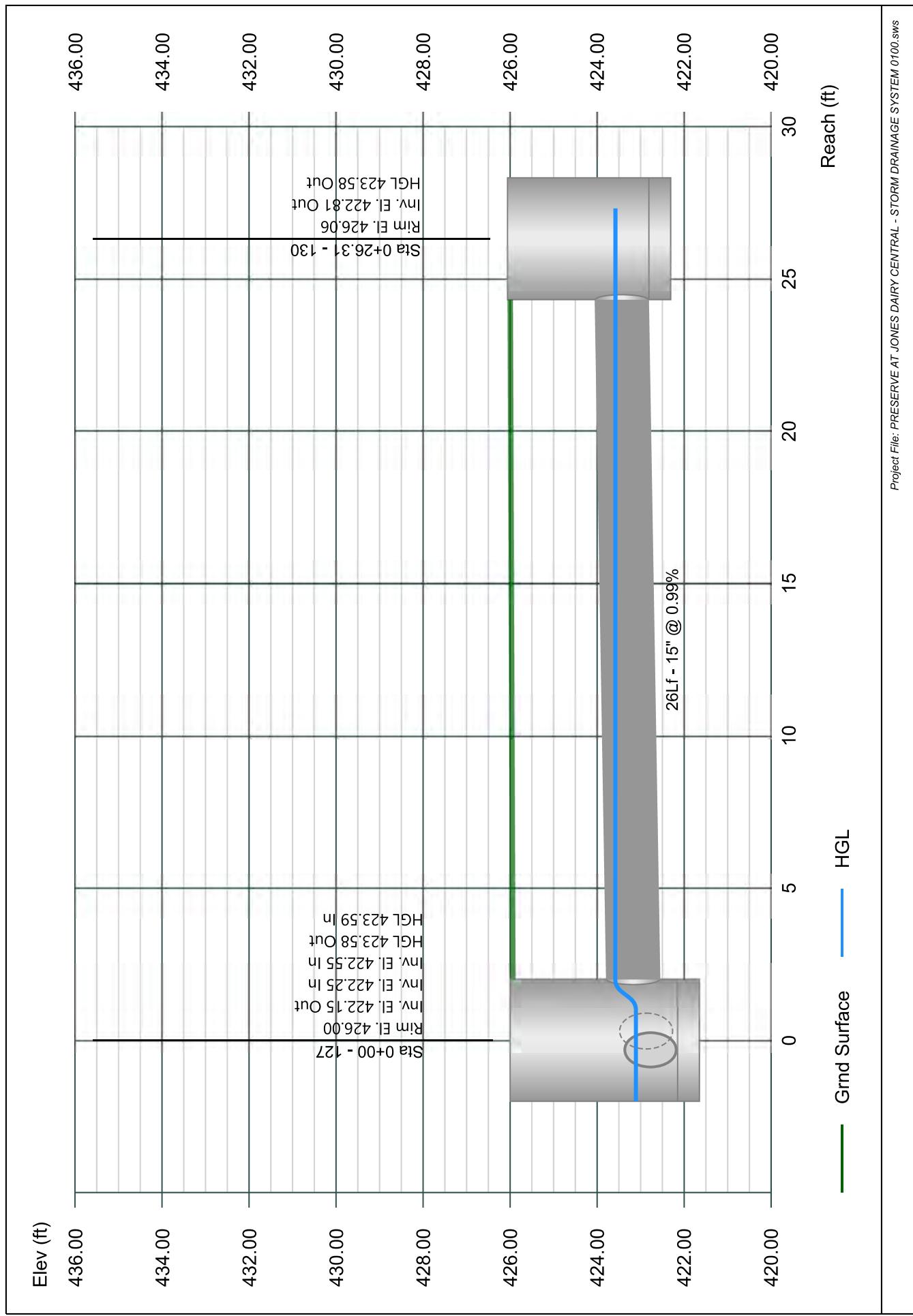


Line 30 - 130 TO 127

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

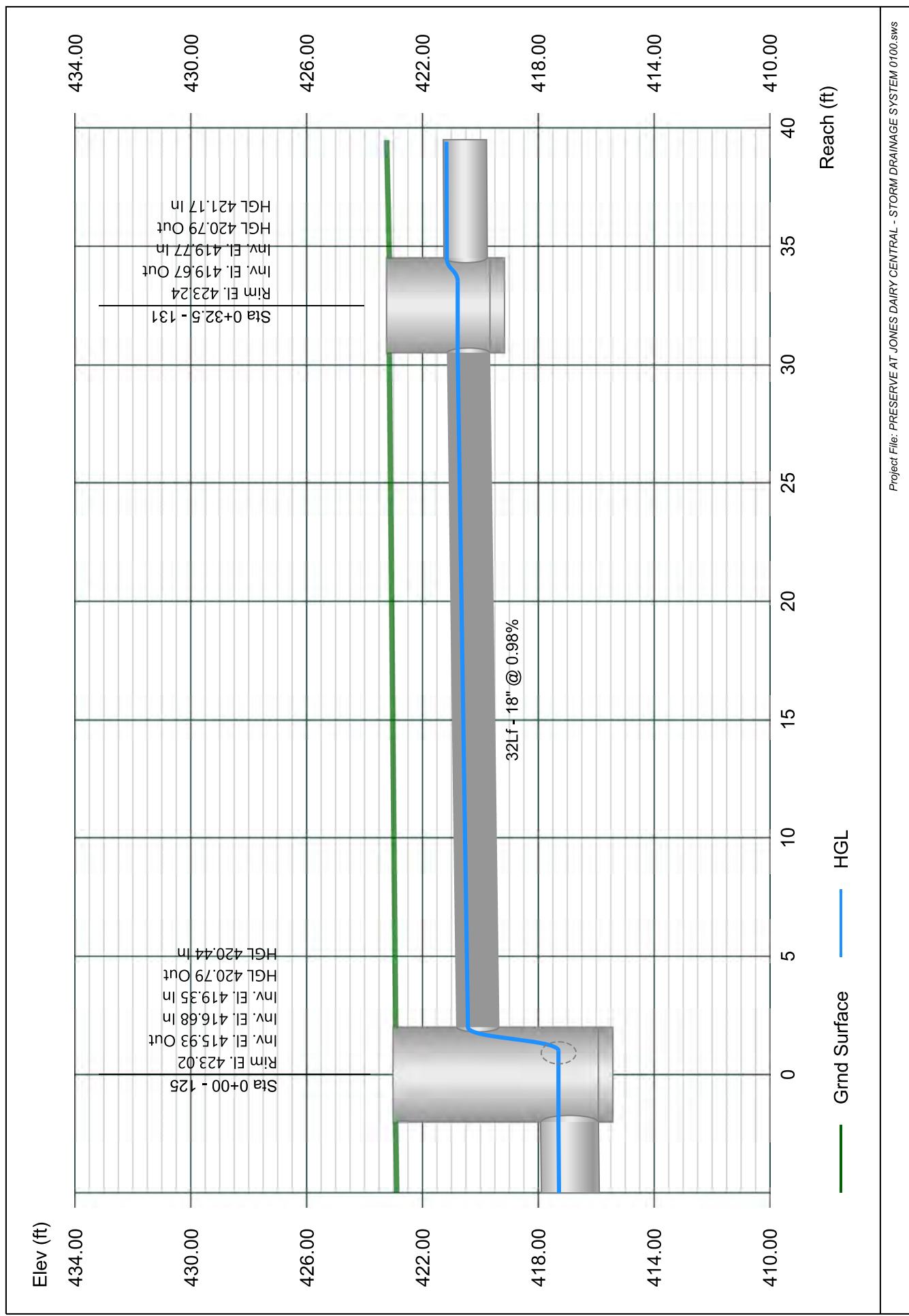


Line 31 - 131 TO 125

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

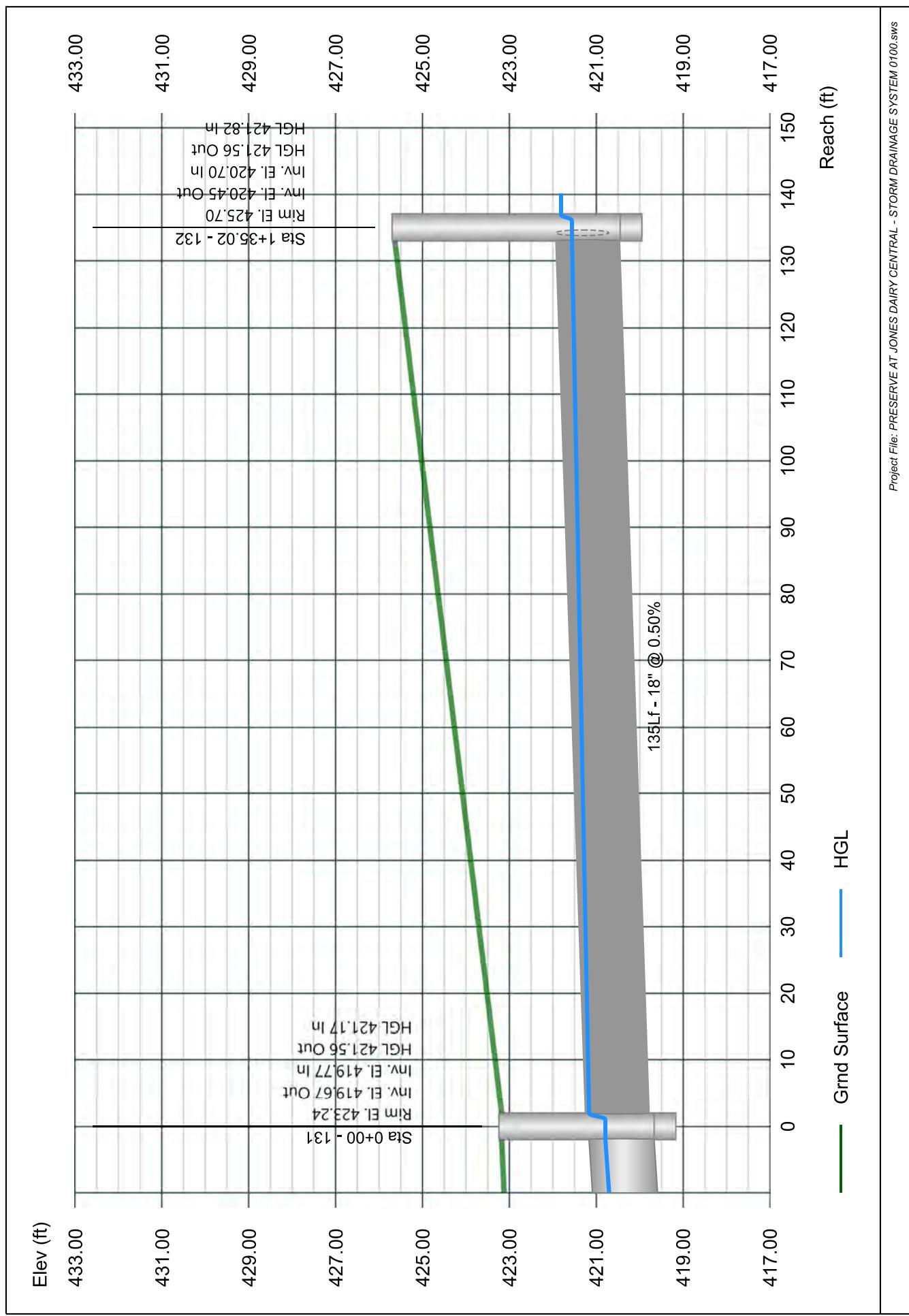


Line 32 - 132 TO 131

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

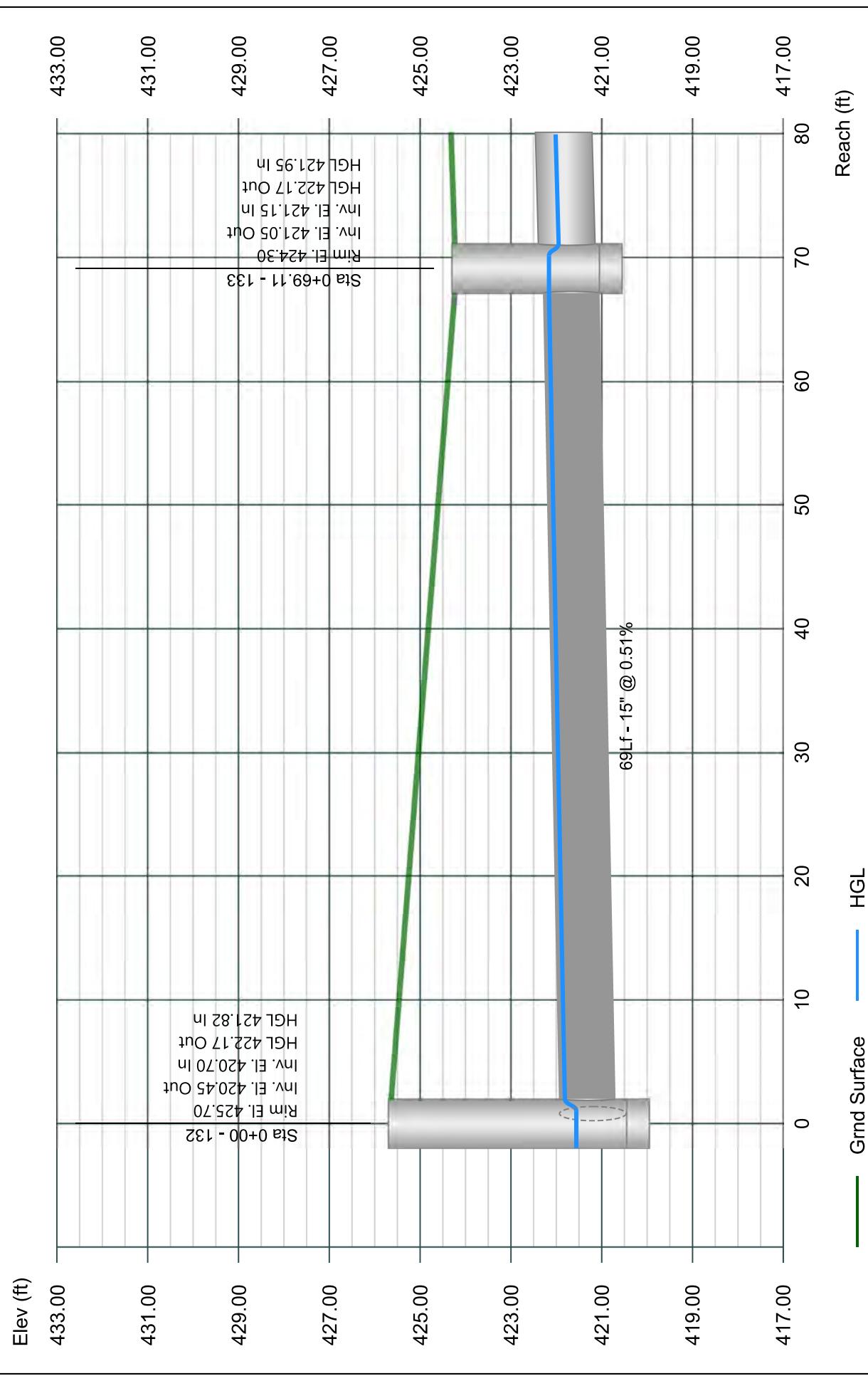


Line 33 - 133 TO 132

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

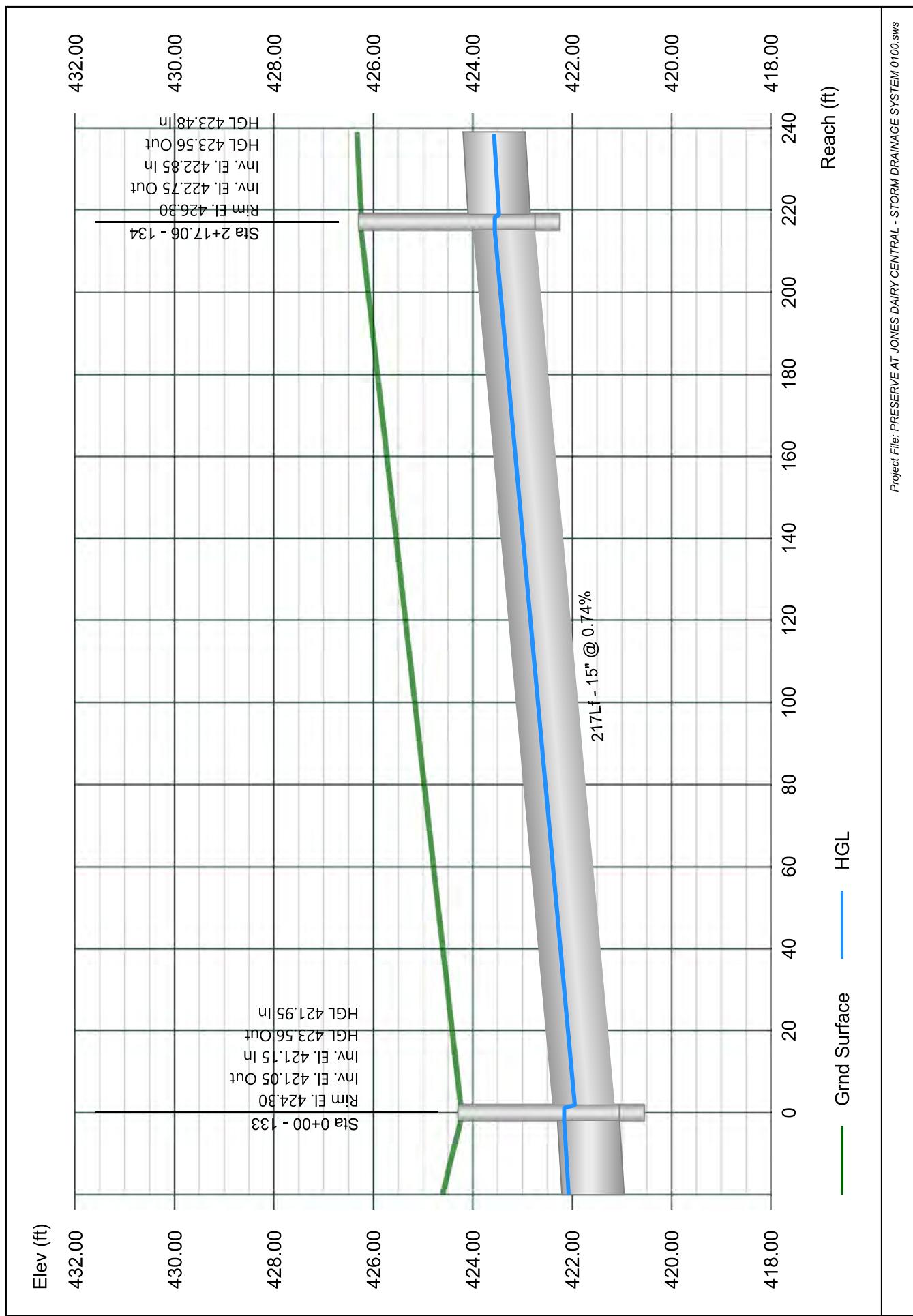


Line 34 - 134 TO 133

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

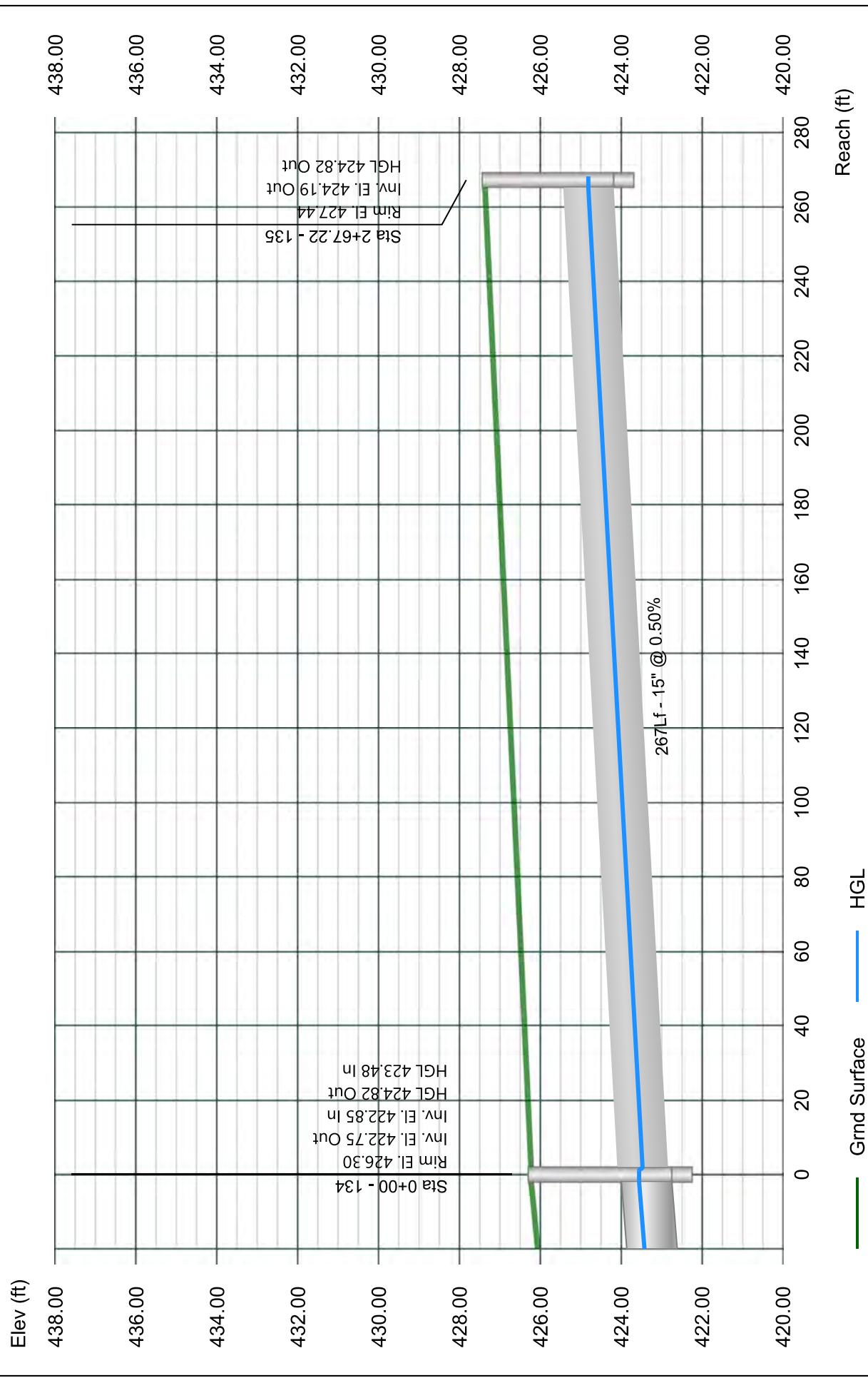


Line 35 - 135 TO 134

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

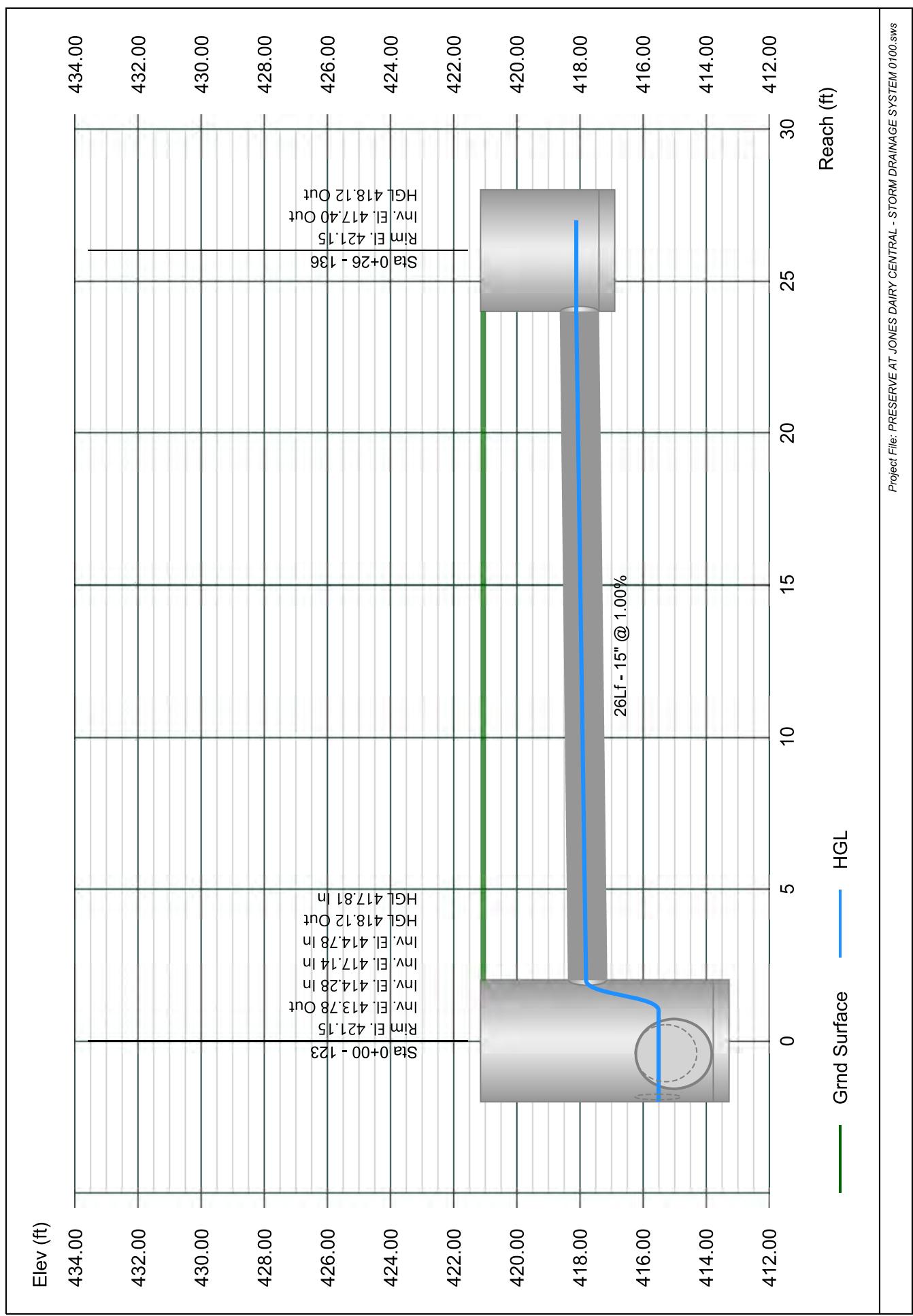


Line 36 - 136 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

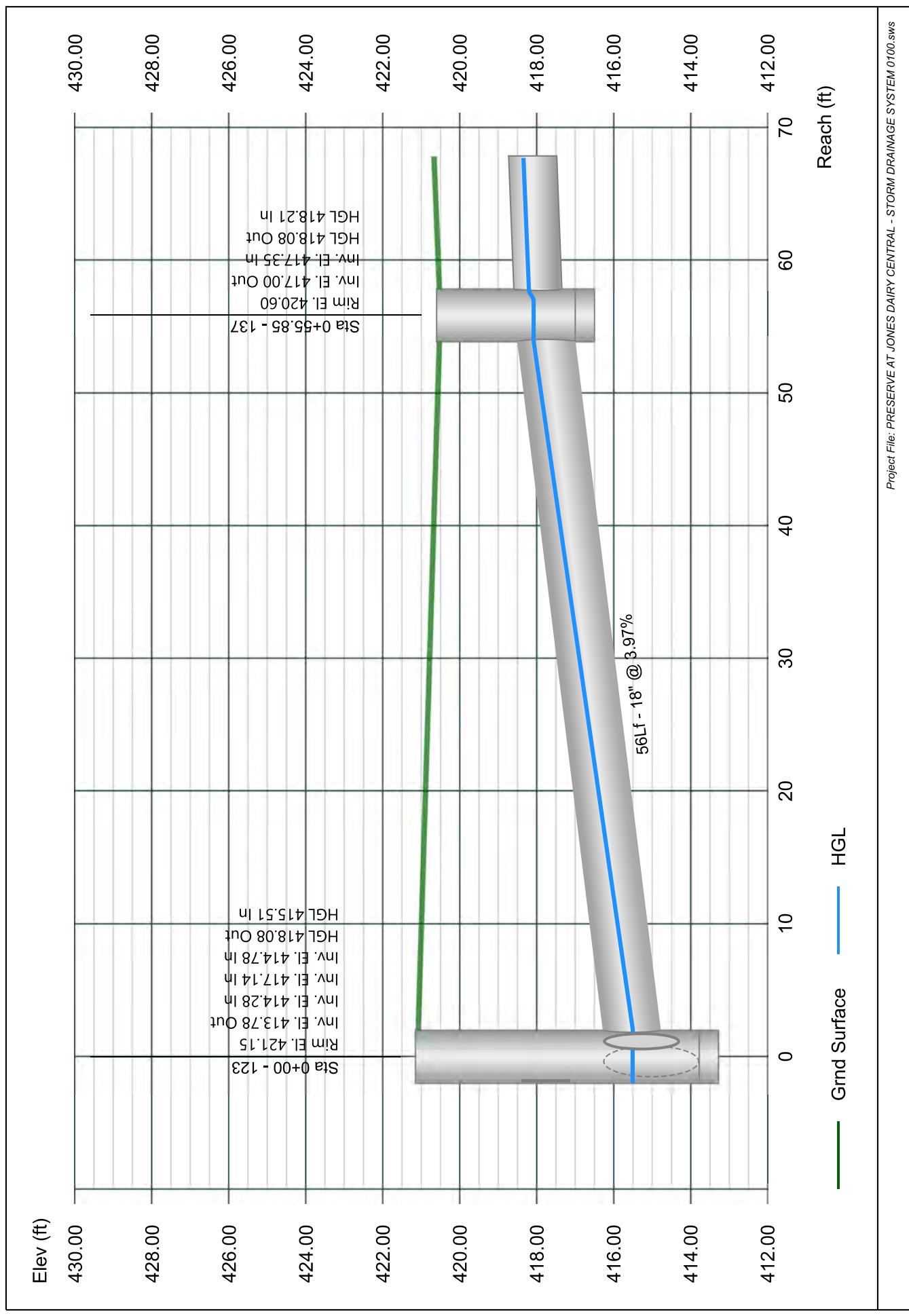


Line 37 - 137 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

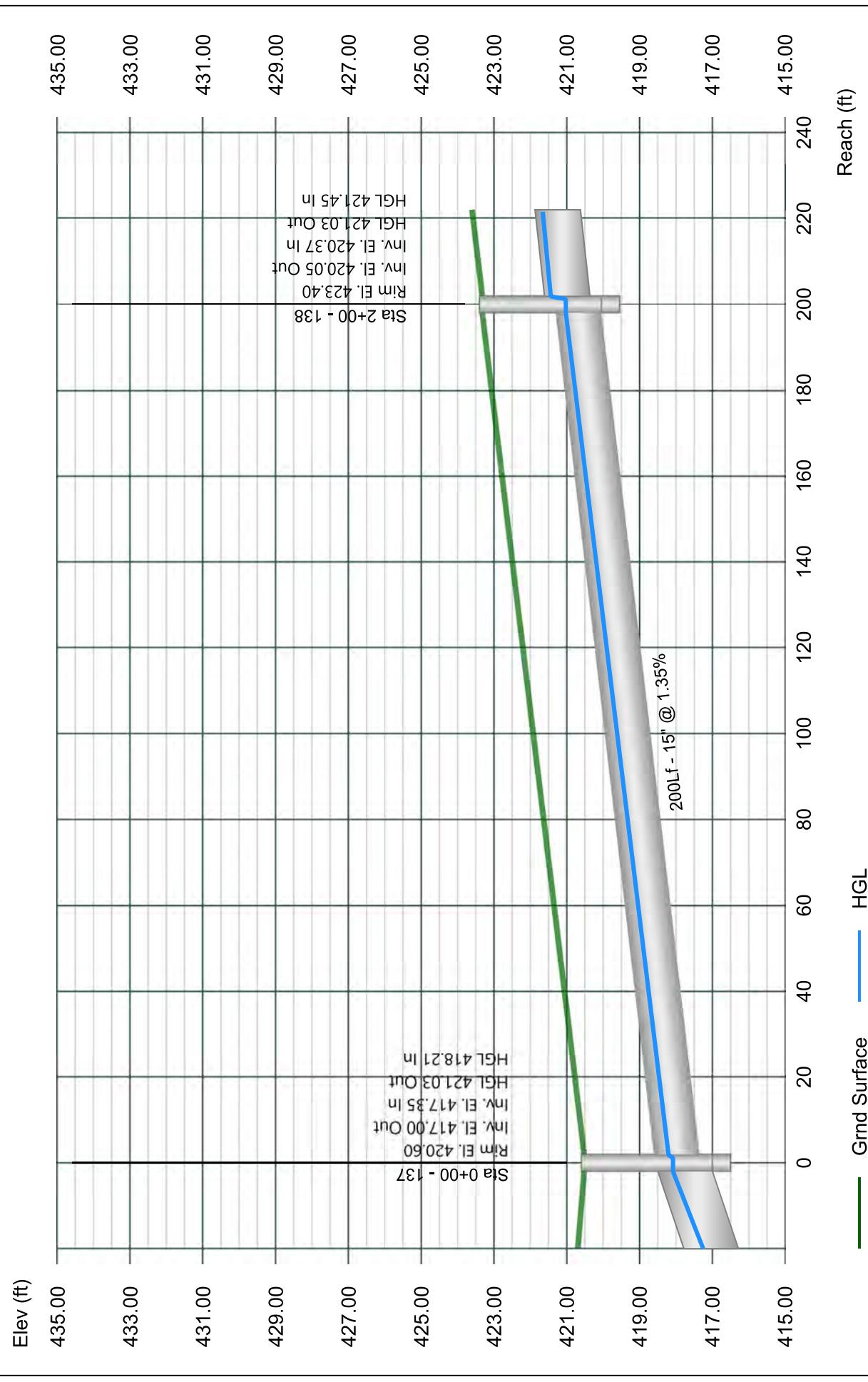


Line 38 - 138 TO 137

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

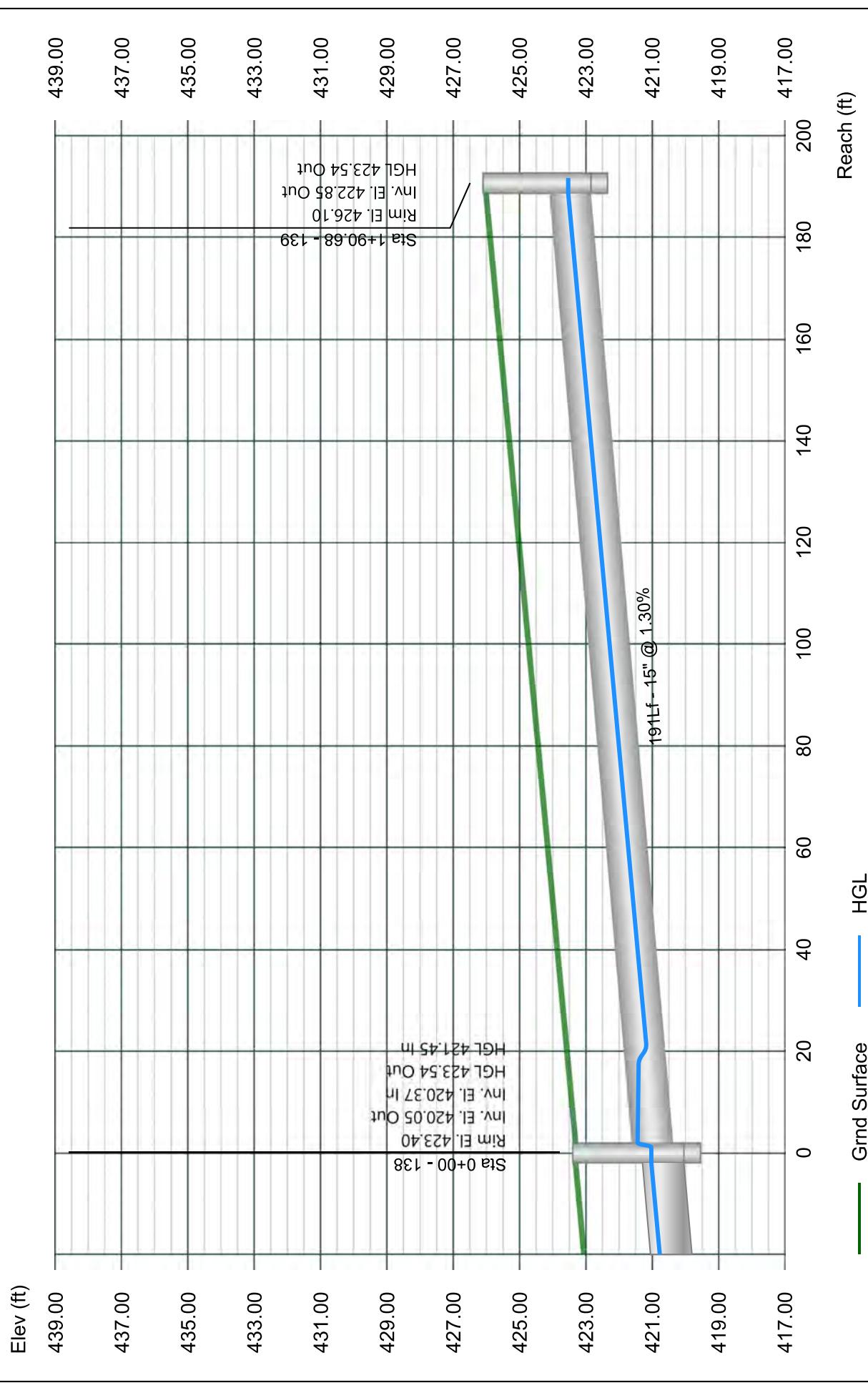


Line 39 - 139 TO 138

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

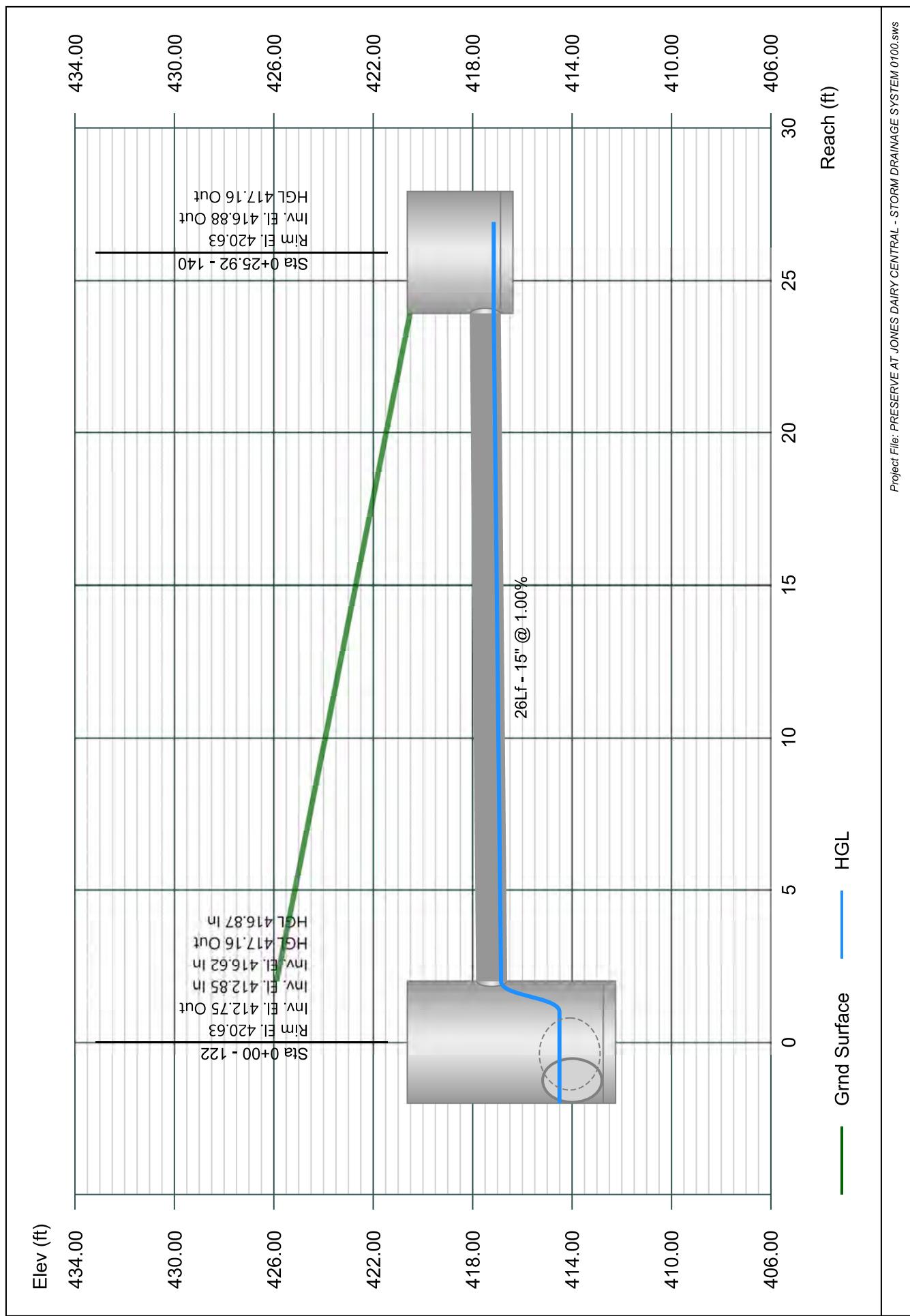


Line 40 - 140 TO 122

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

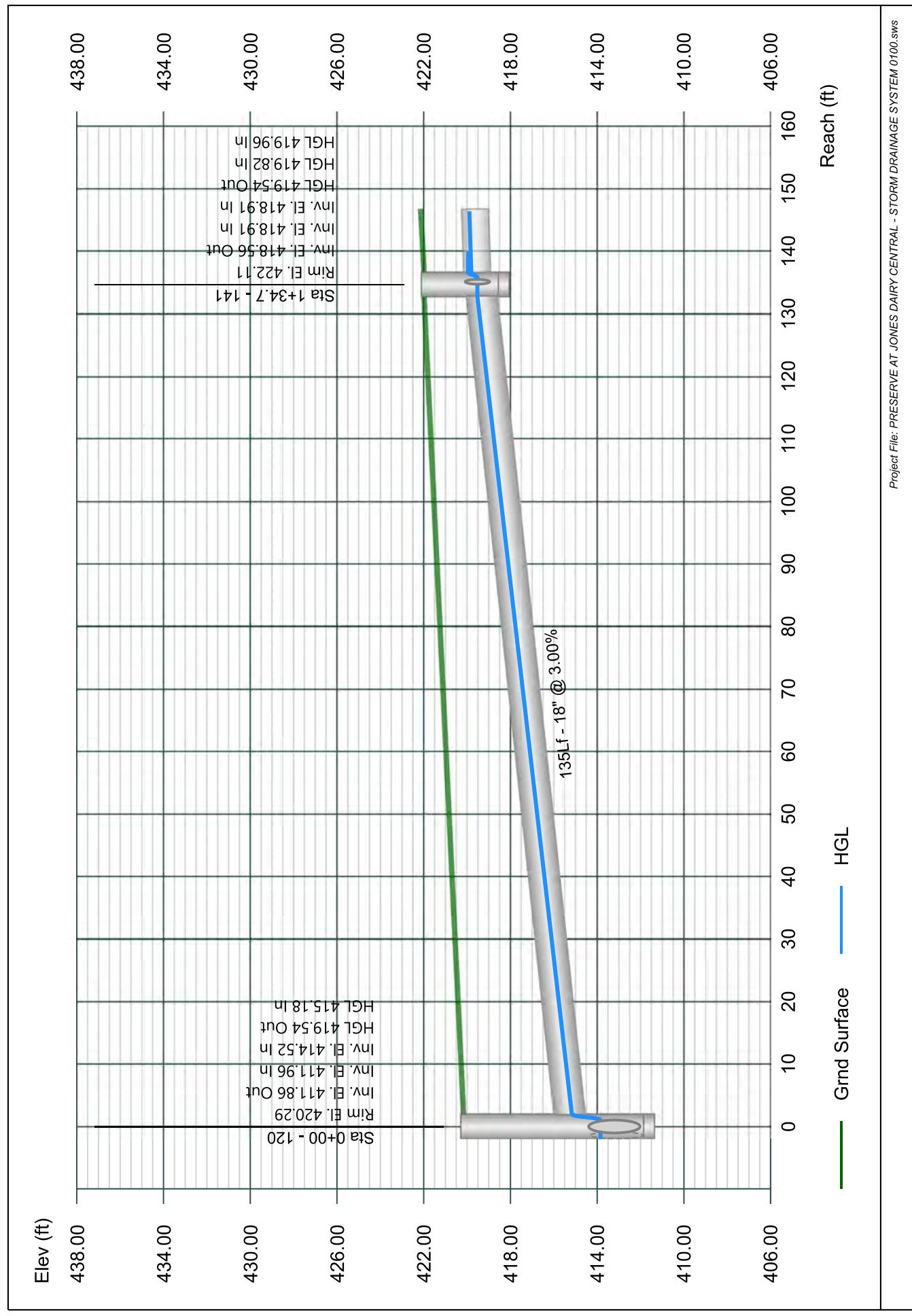


Line 41 - 141 TO 120

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

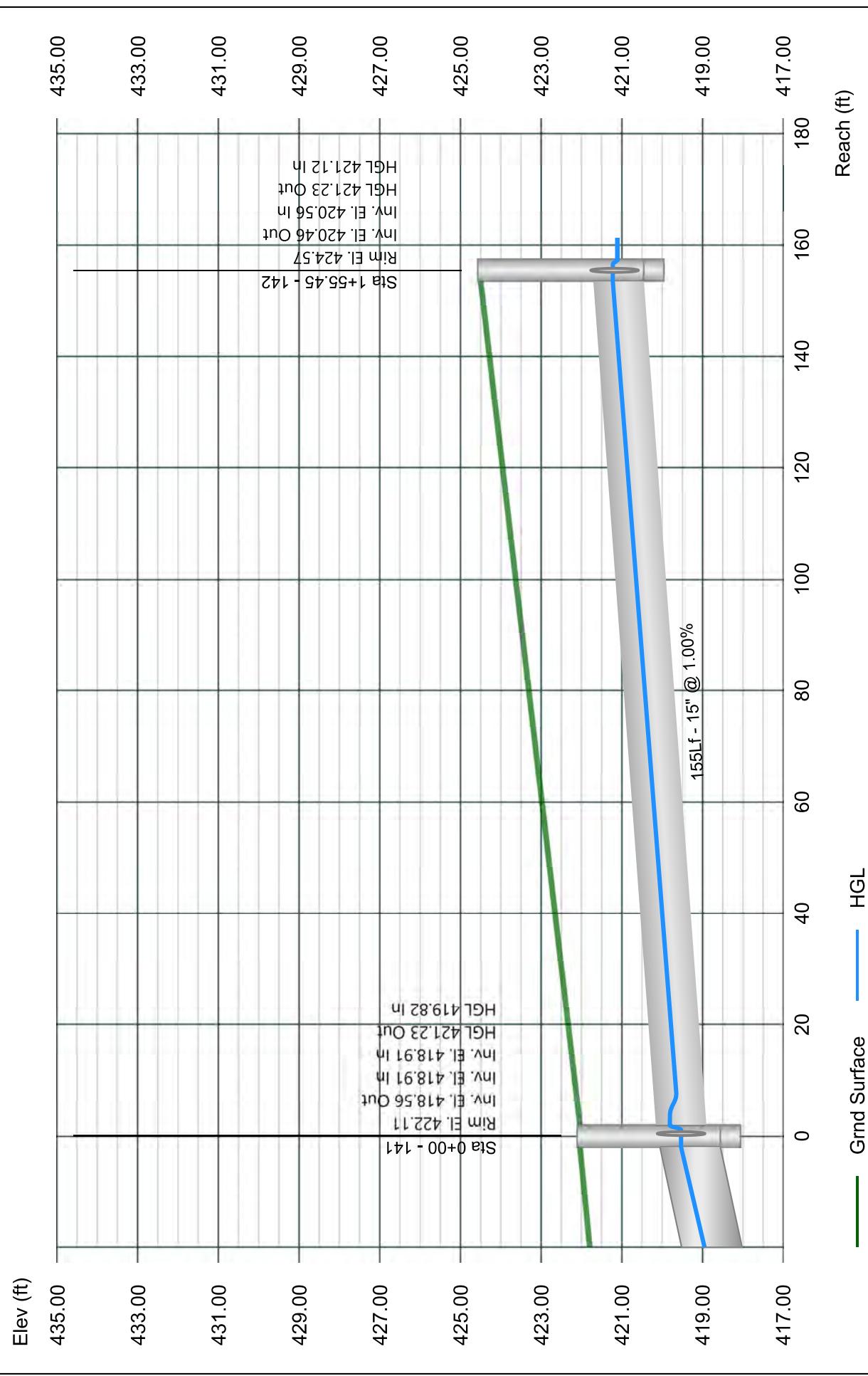


Line 42 - 142 TO 141

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

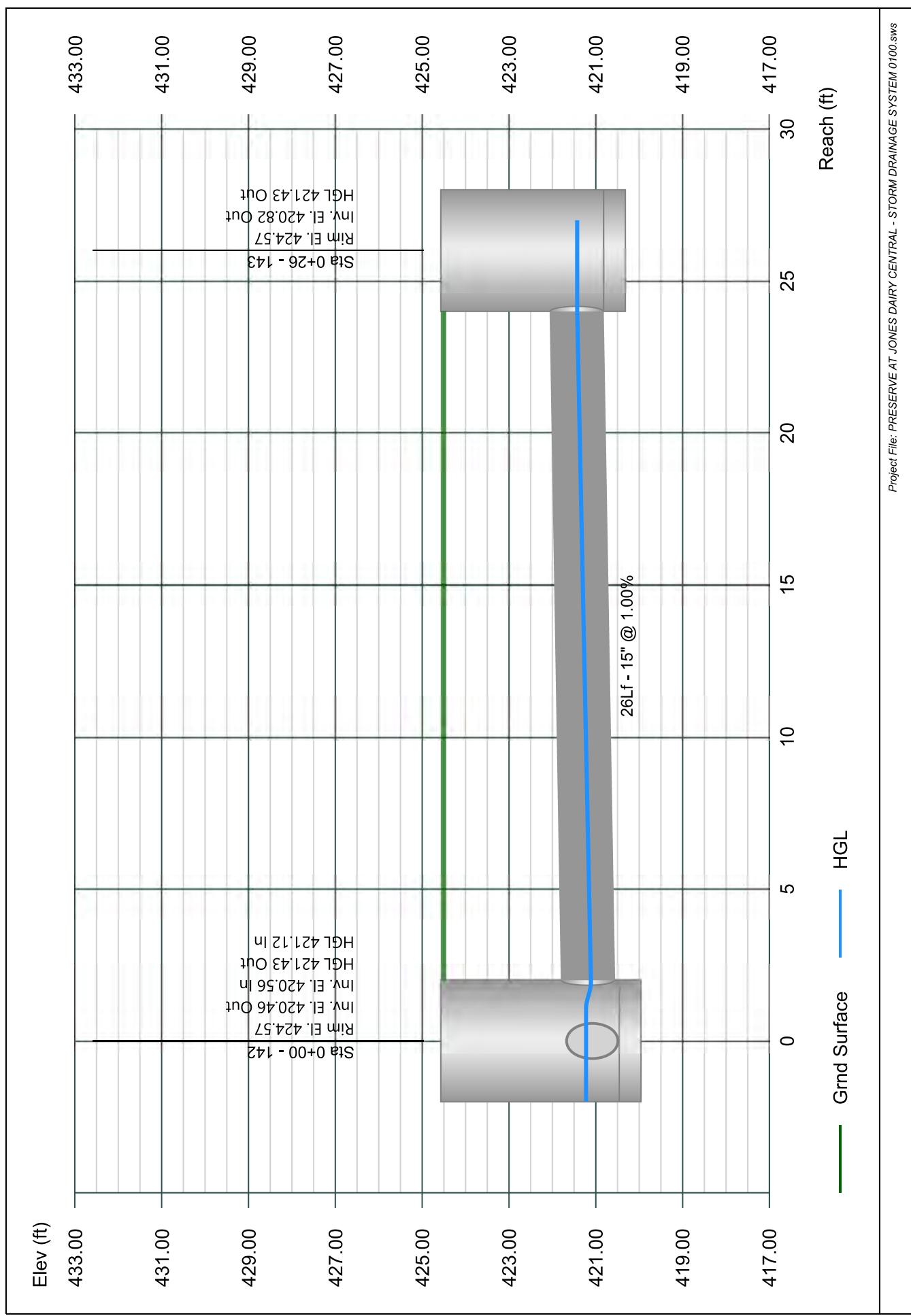


Line 43 - 143 TO 142

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

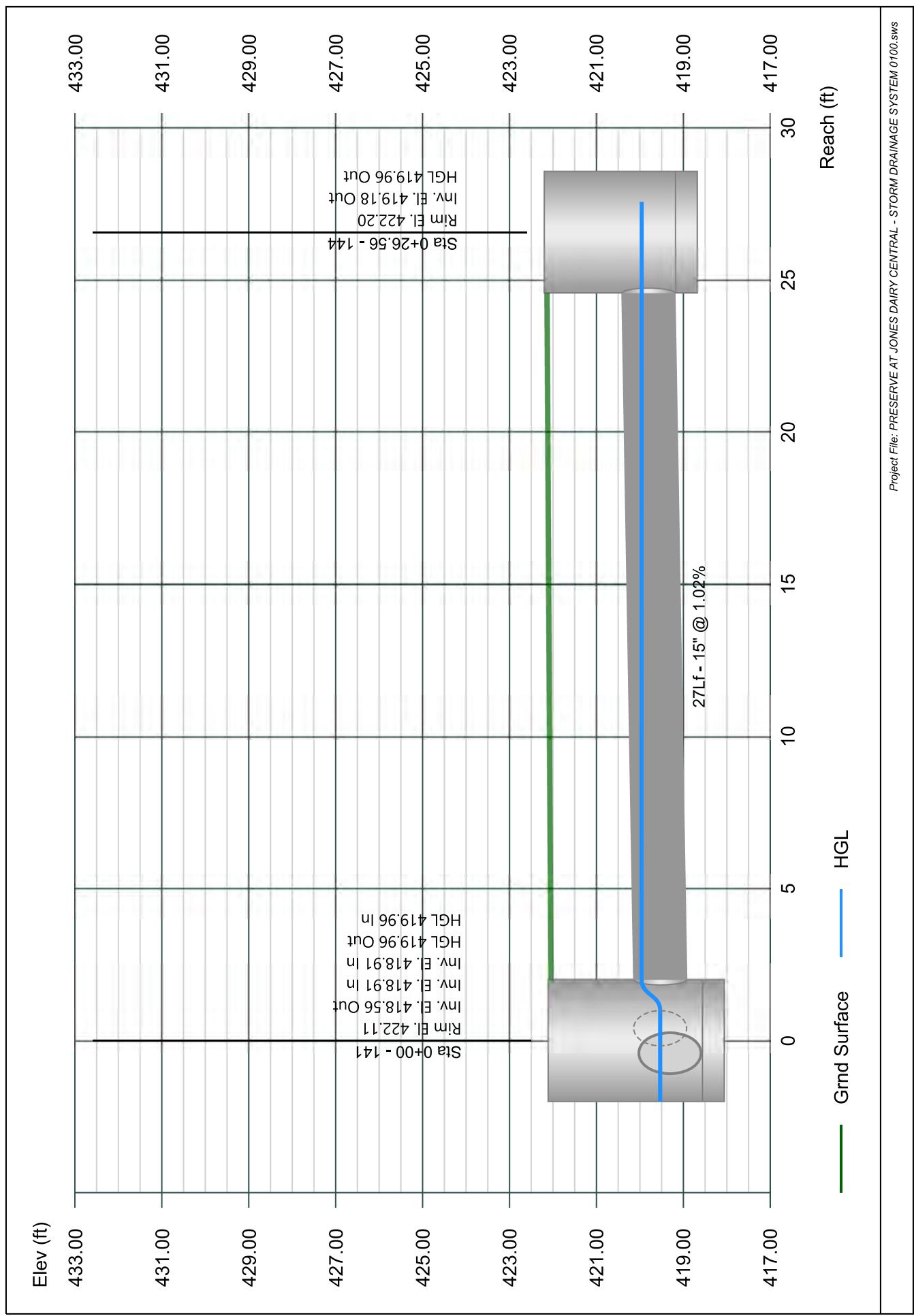


Line 44 - 144 TO 141

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

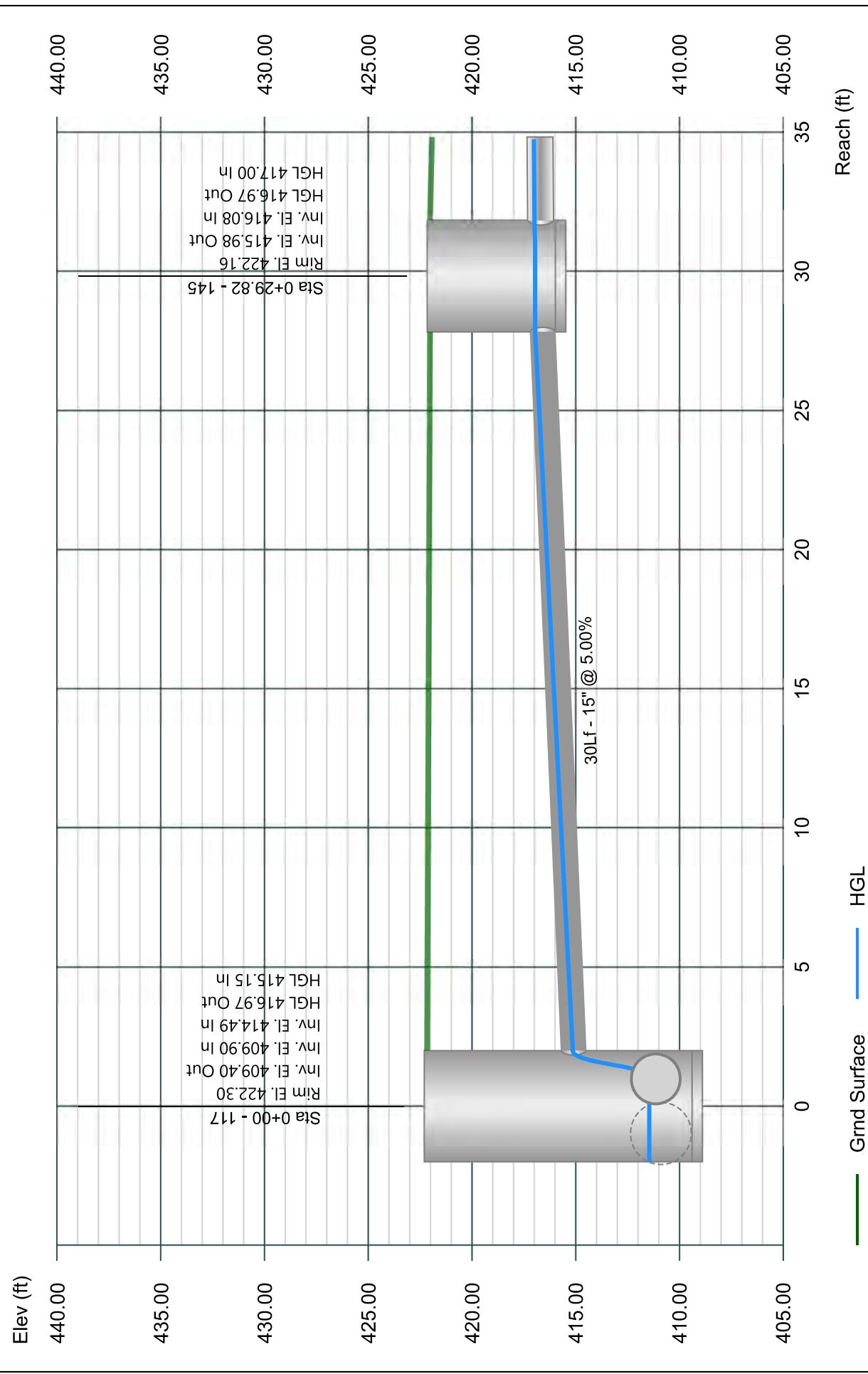


Line 45 - 145 to 117

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

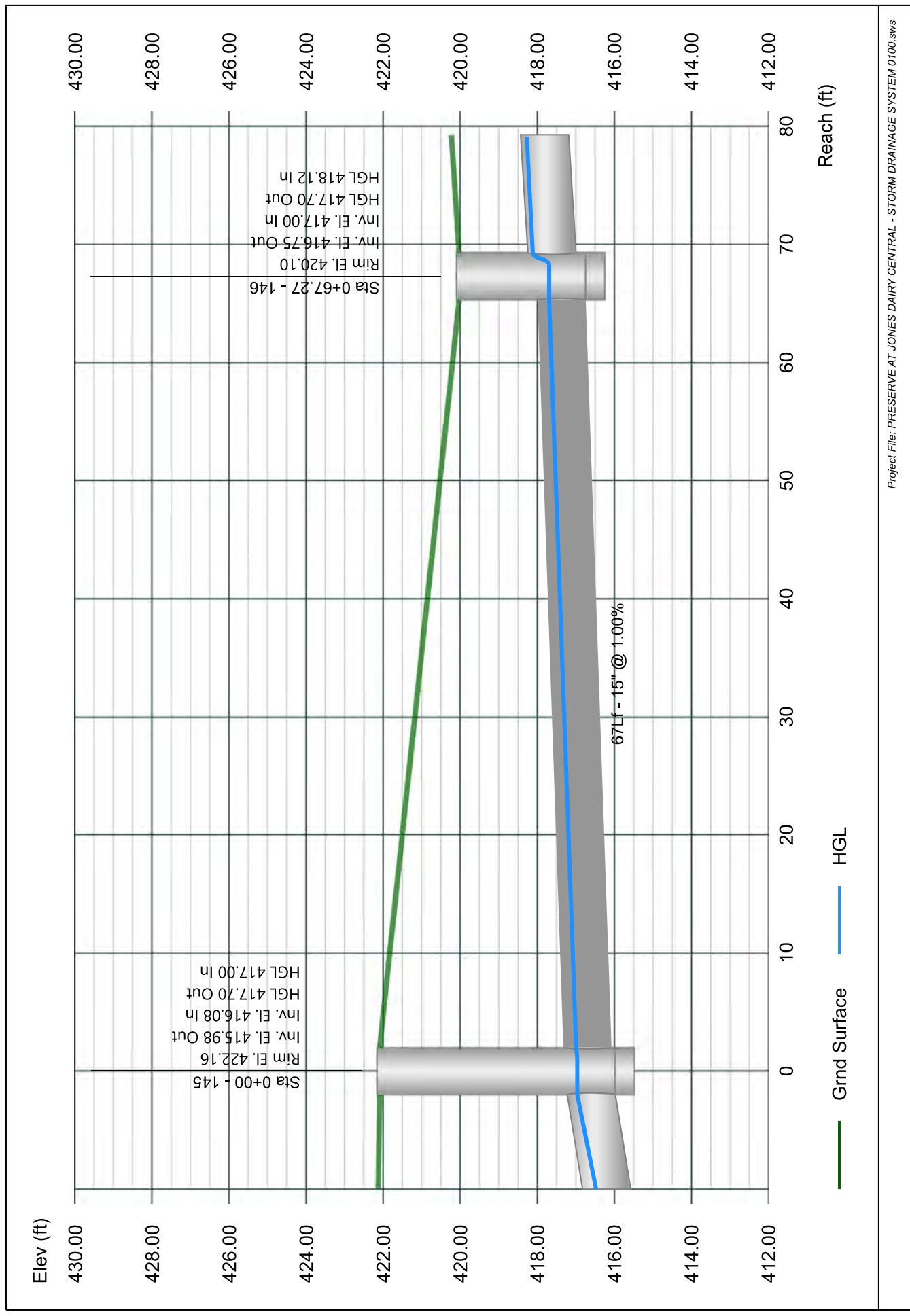


Line 46 - 146 to 145

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

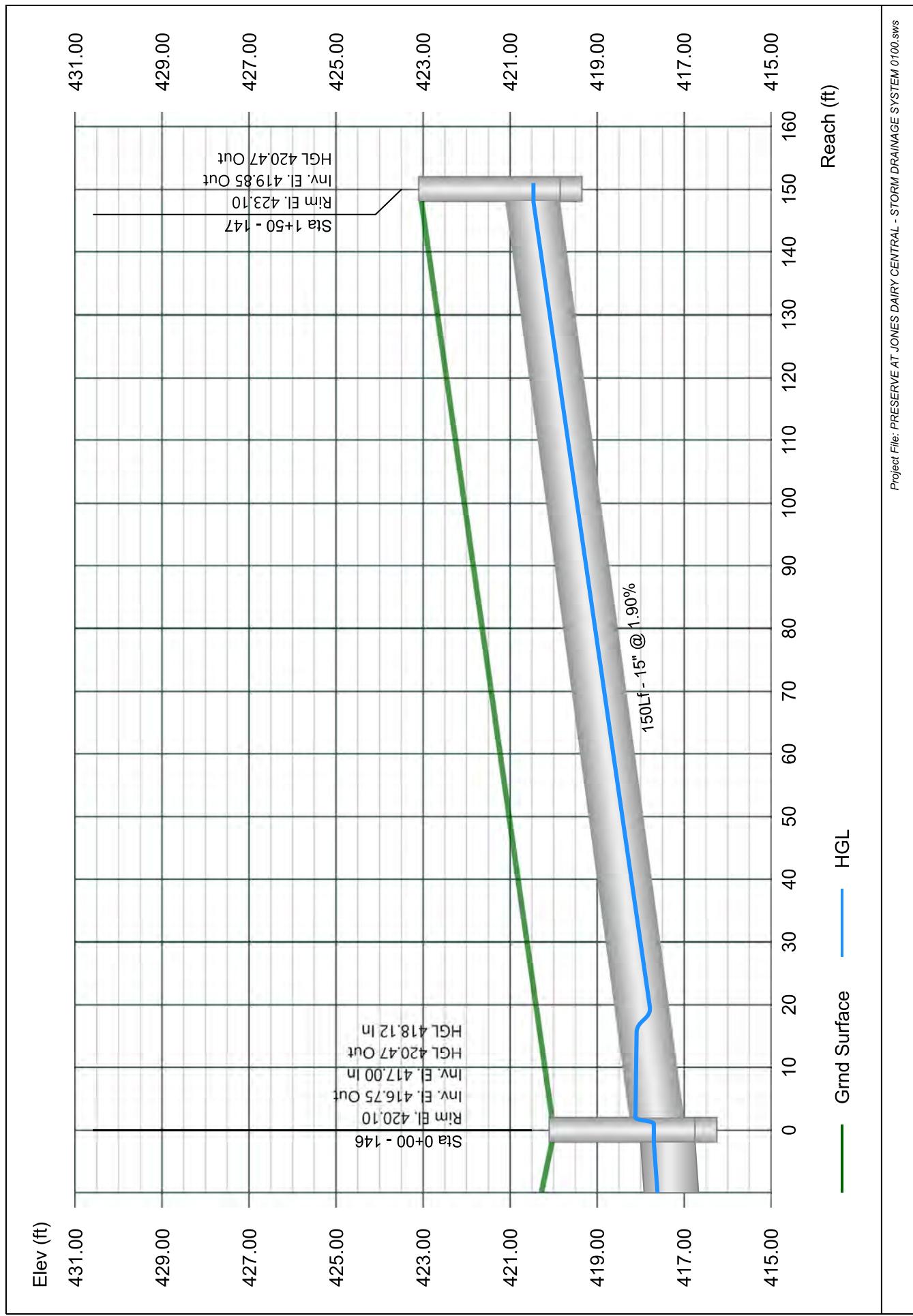


Line 47 - 147 to 146

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

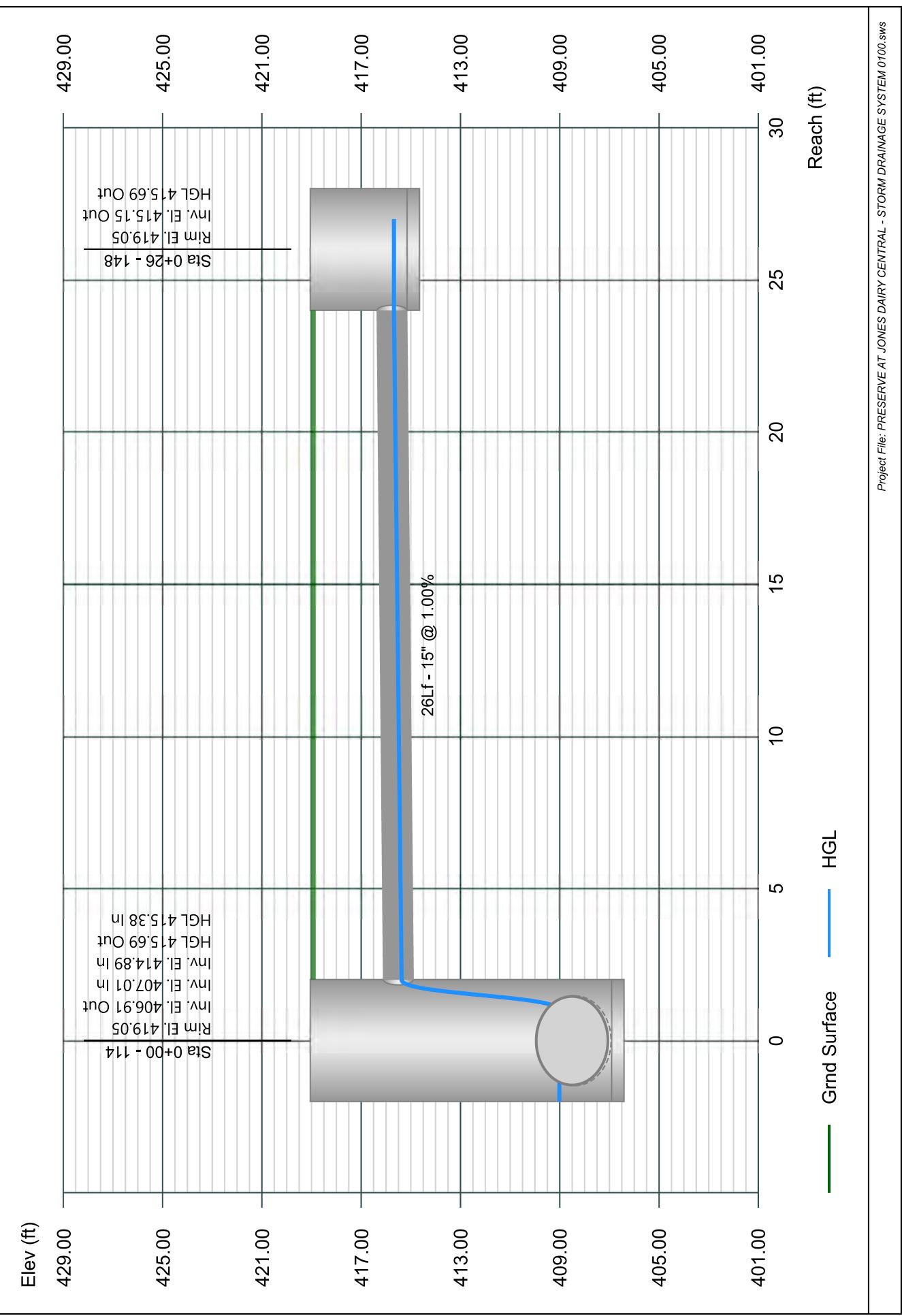


Line 48 - 148 TO 114

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

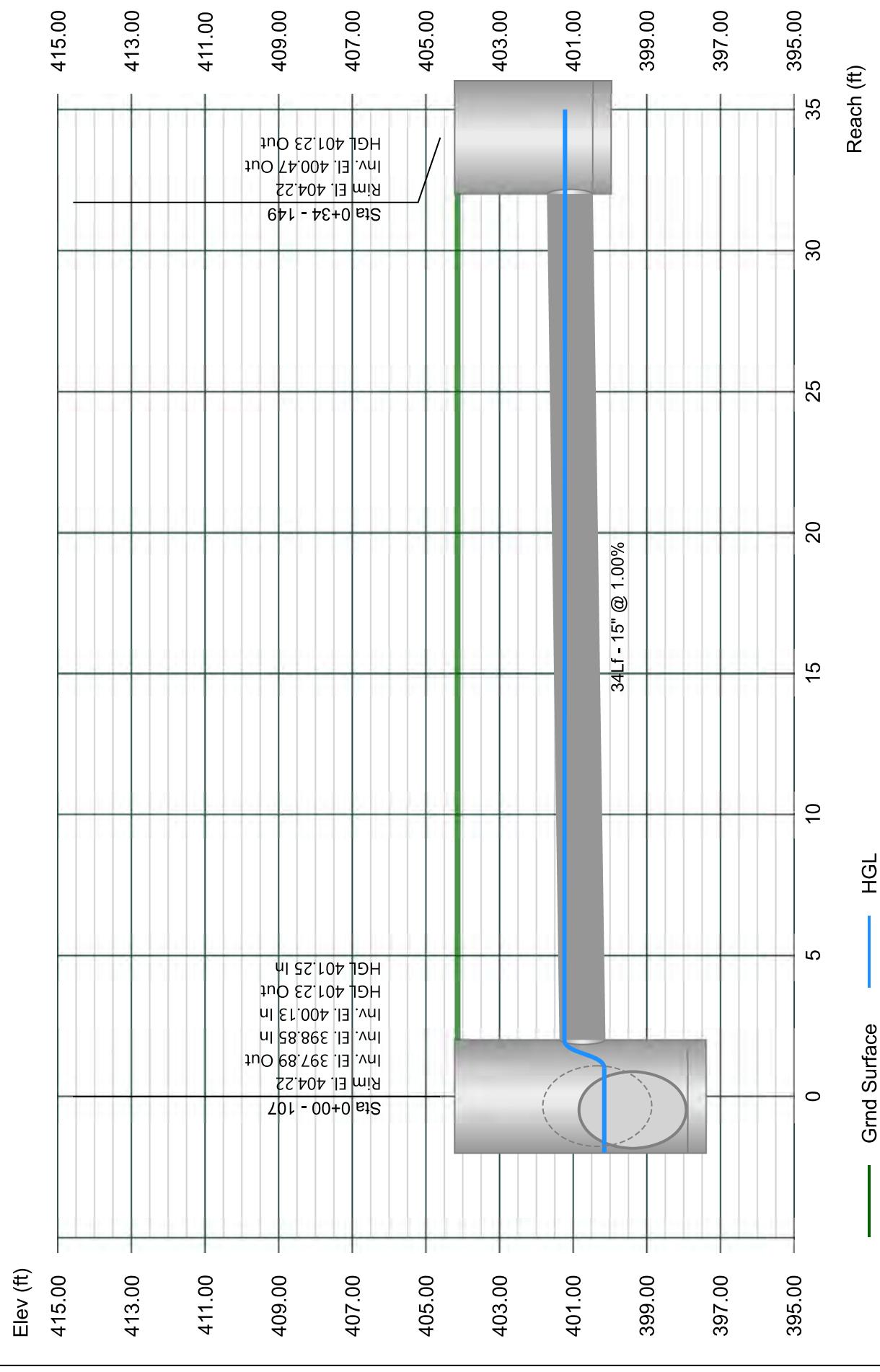


Line 49 - 149 TO 107

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

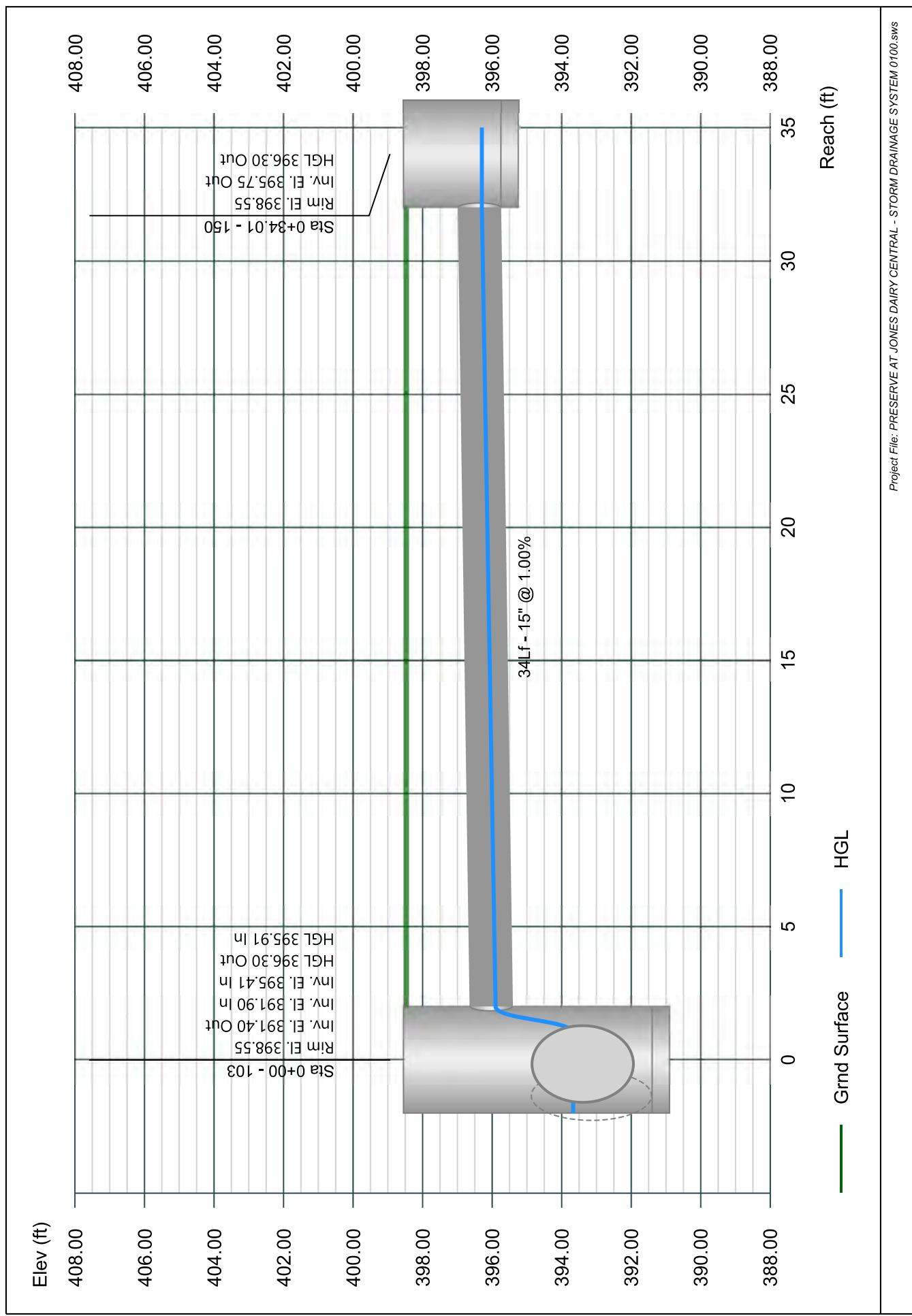


Line 50 - 150 TO 103

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

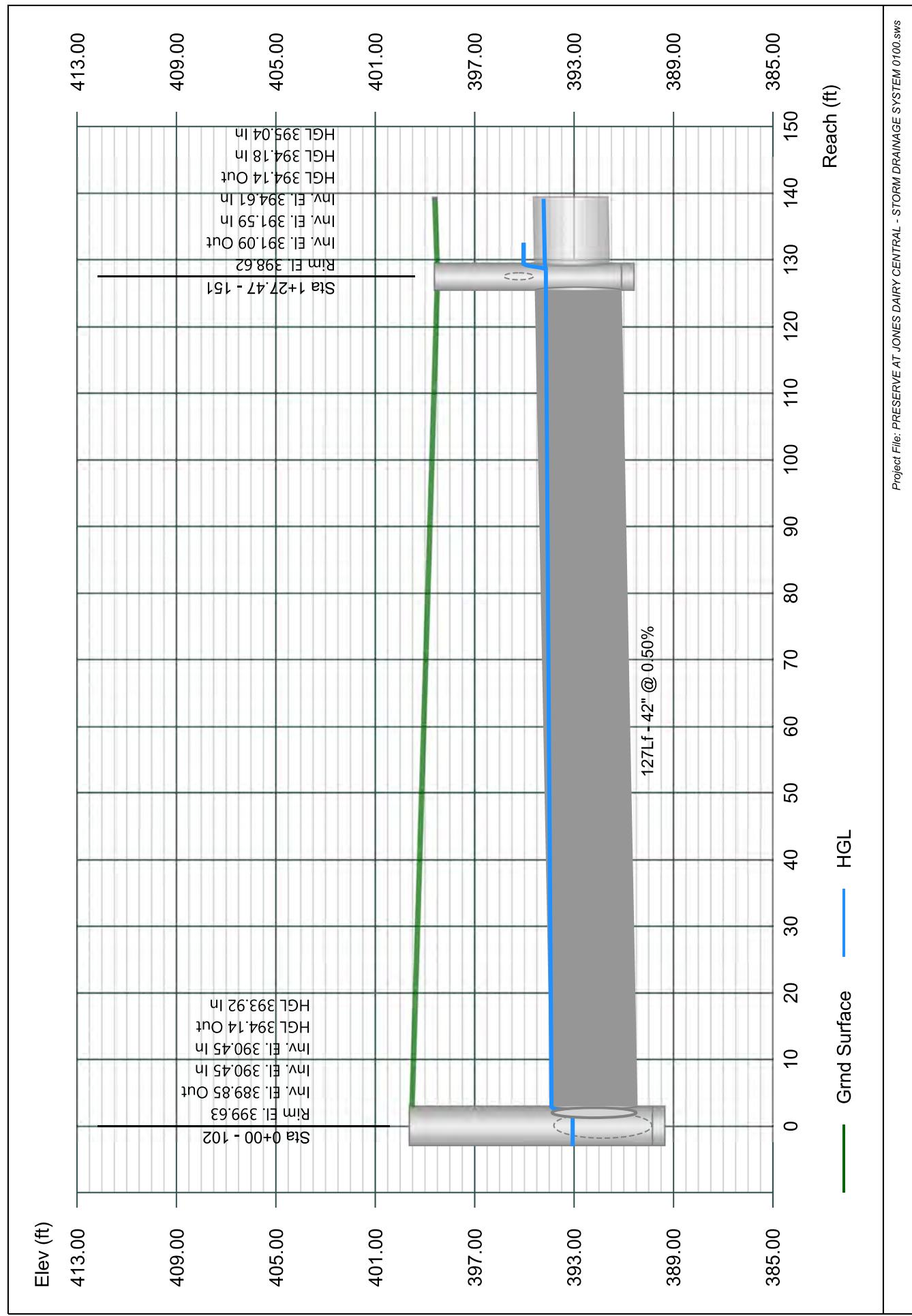


Line 51 - 151 TO 102

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

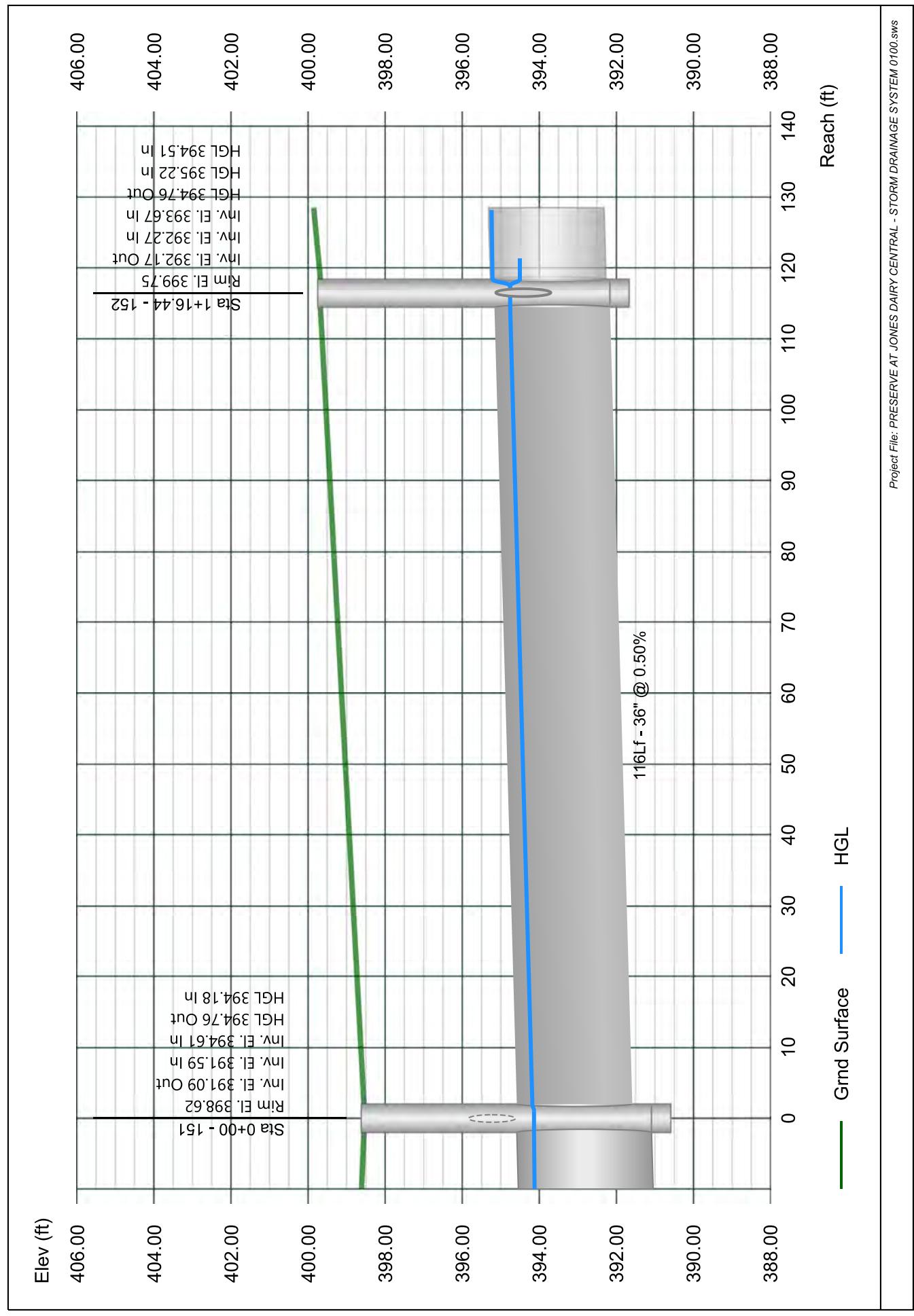


Line 52 - 152 TO 151

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

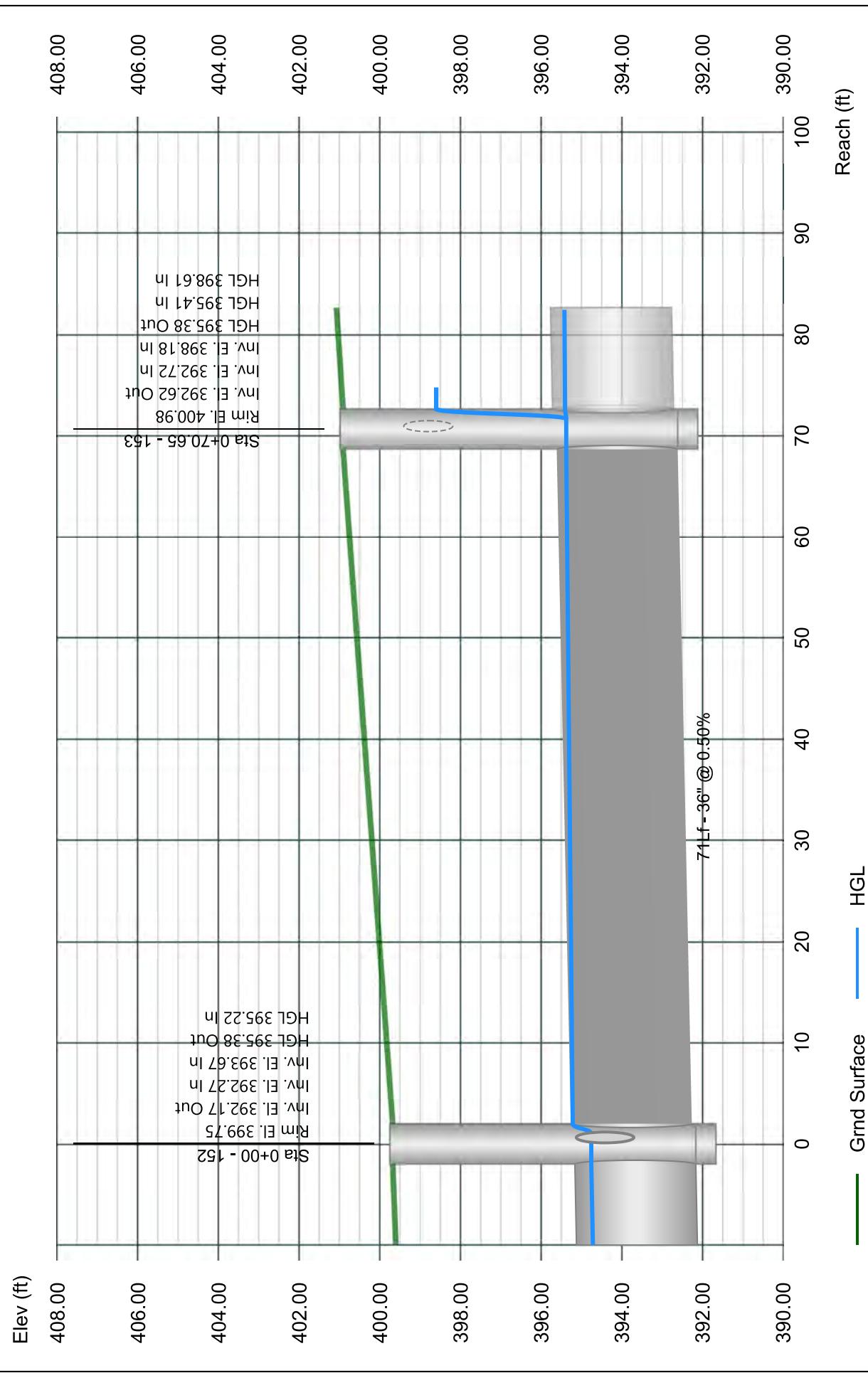


Line 53 - 153 TO 152

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



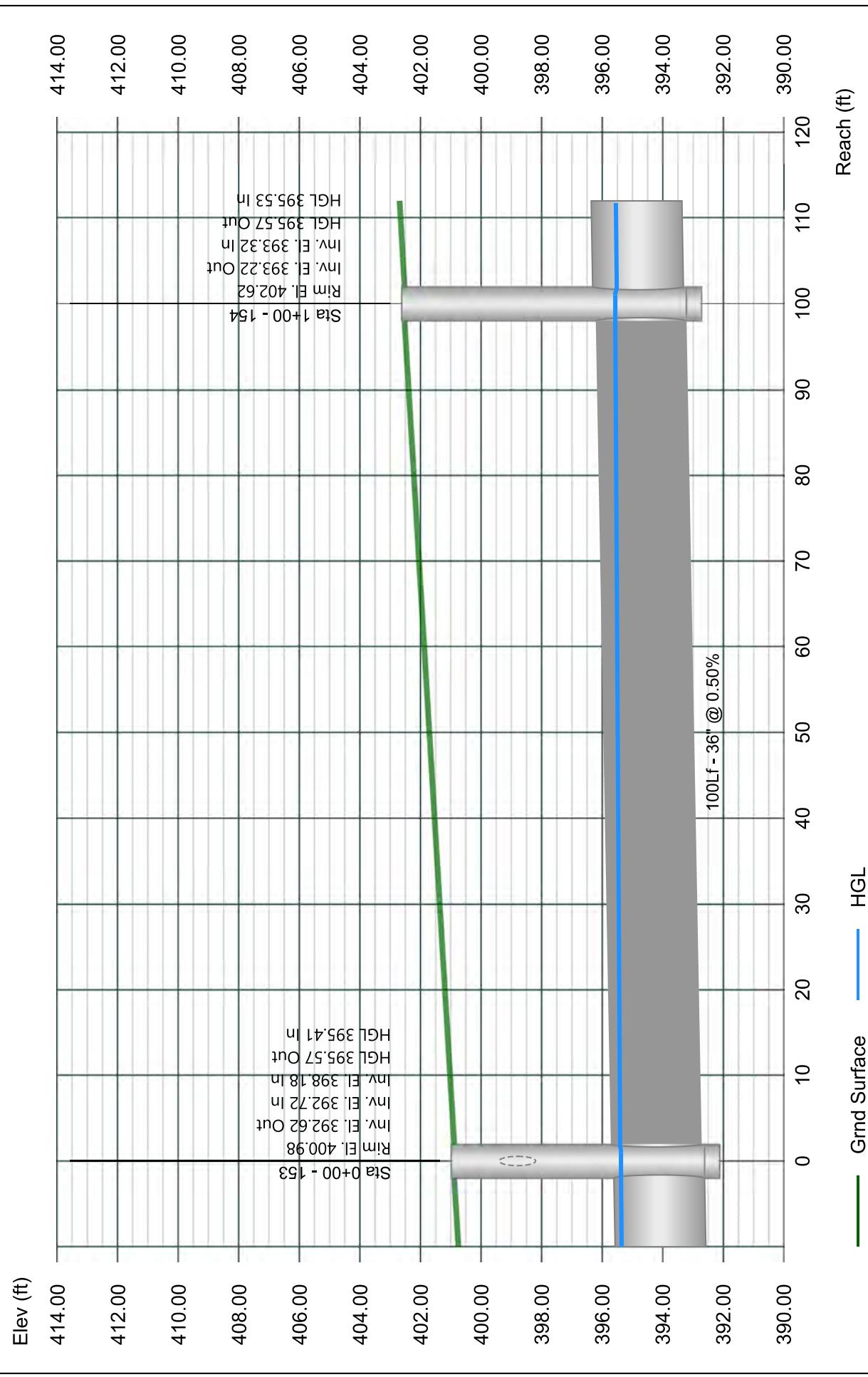
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 54 - 154 TO 153

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

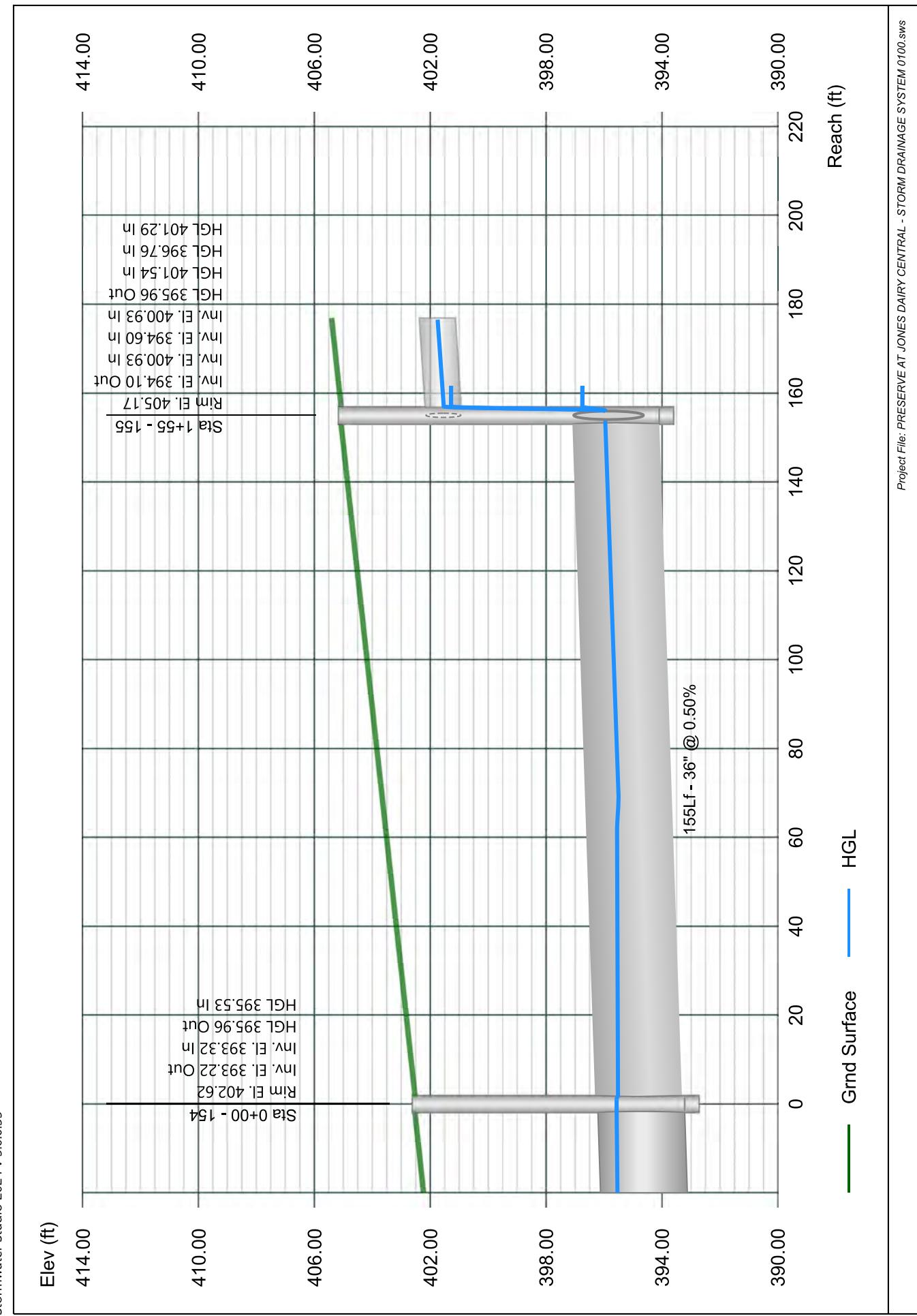


Line 55 - 155 TO 154

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

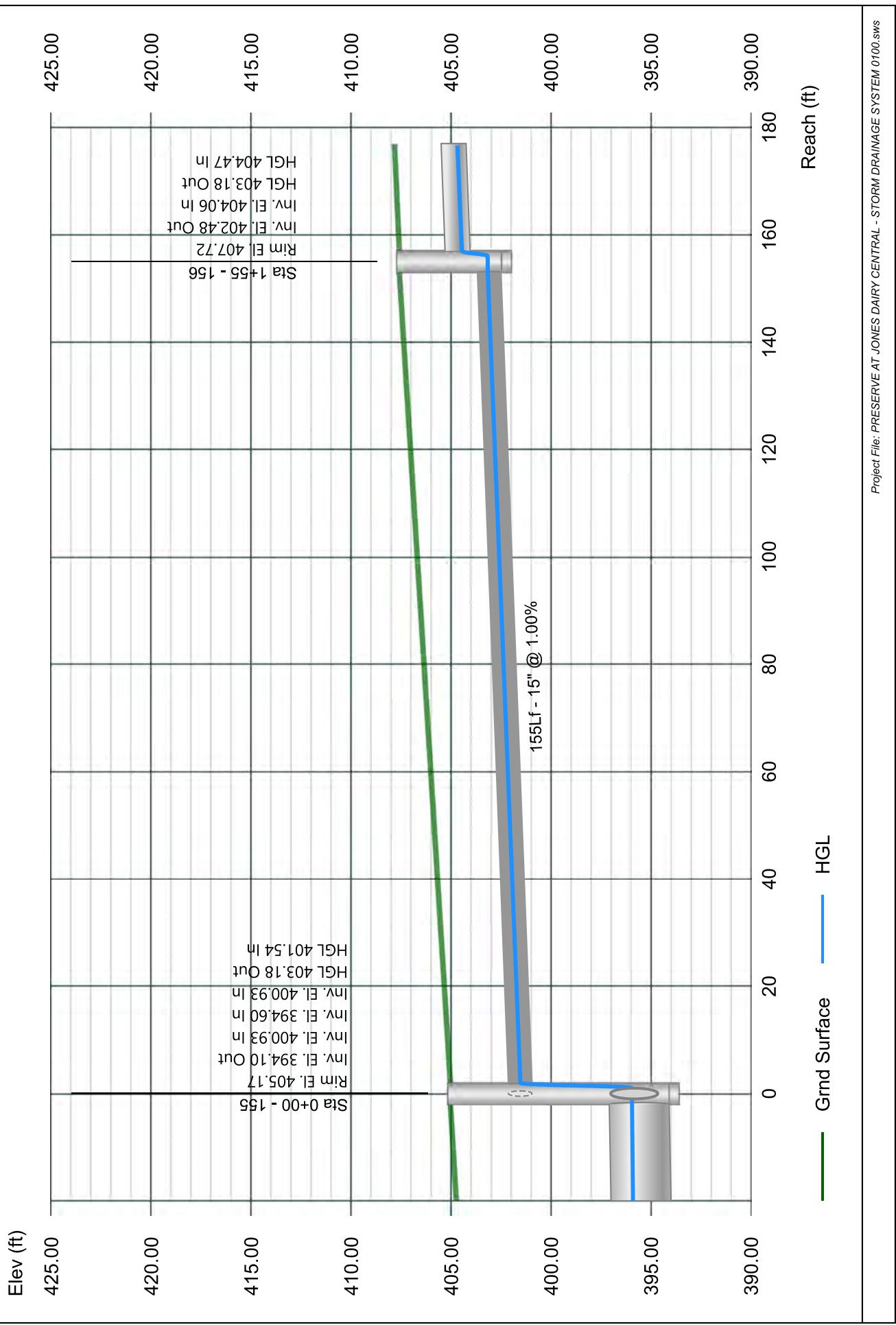


Line 56 - 156 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

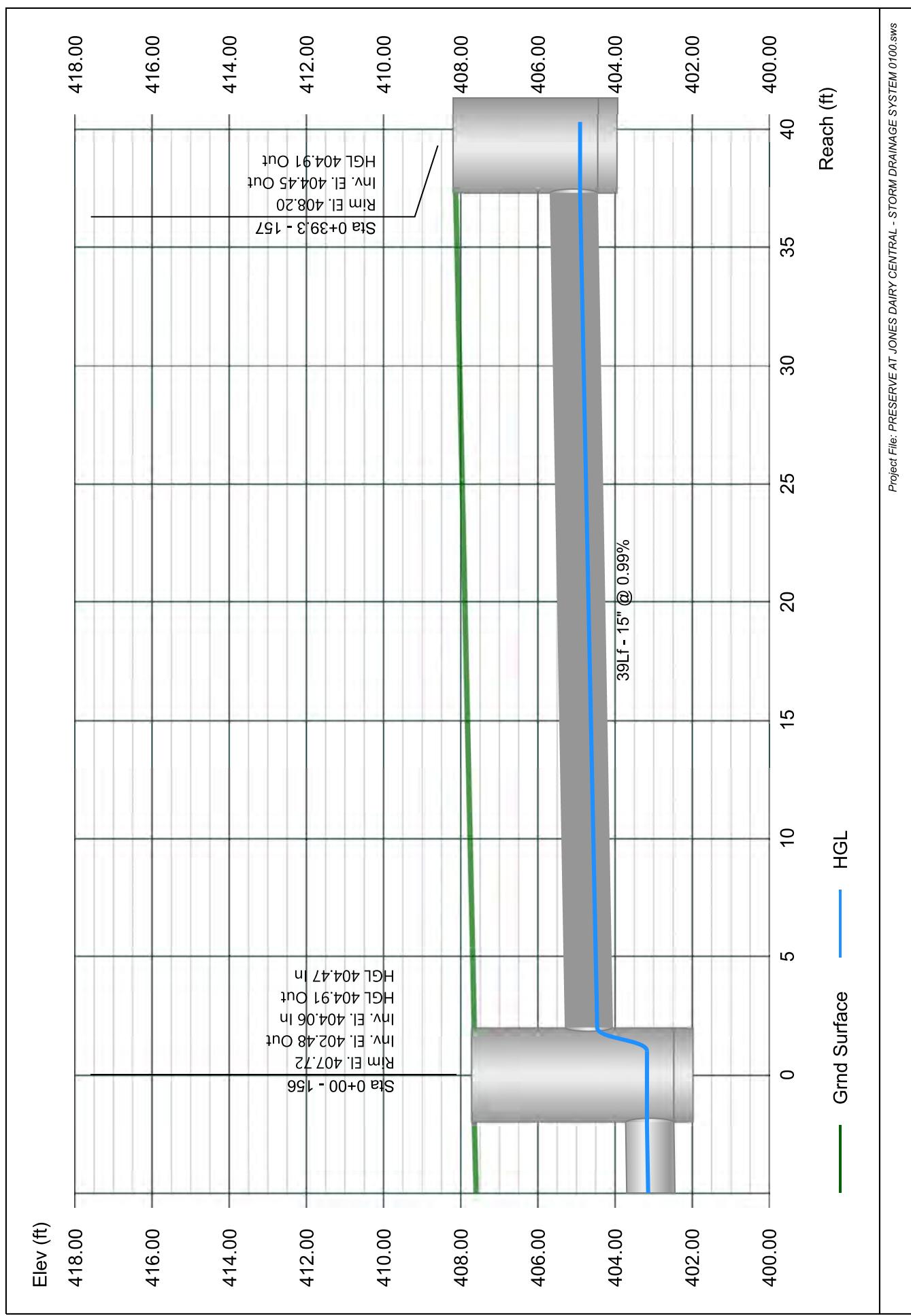


Line 57 - 157 TO 156

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

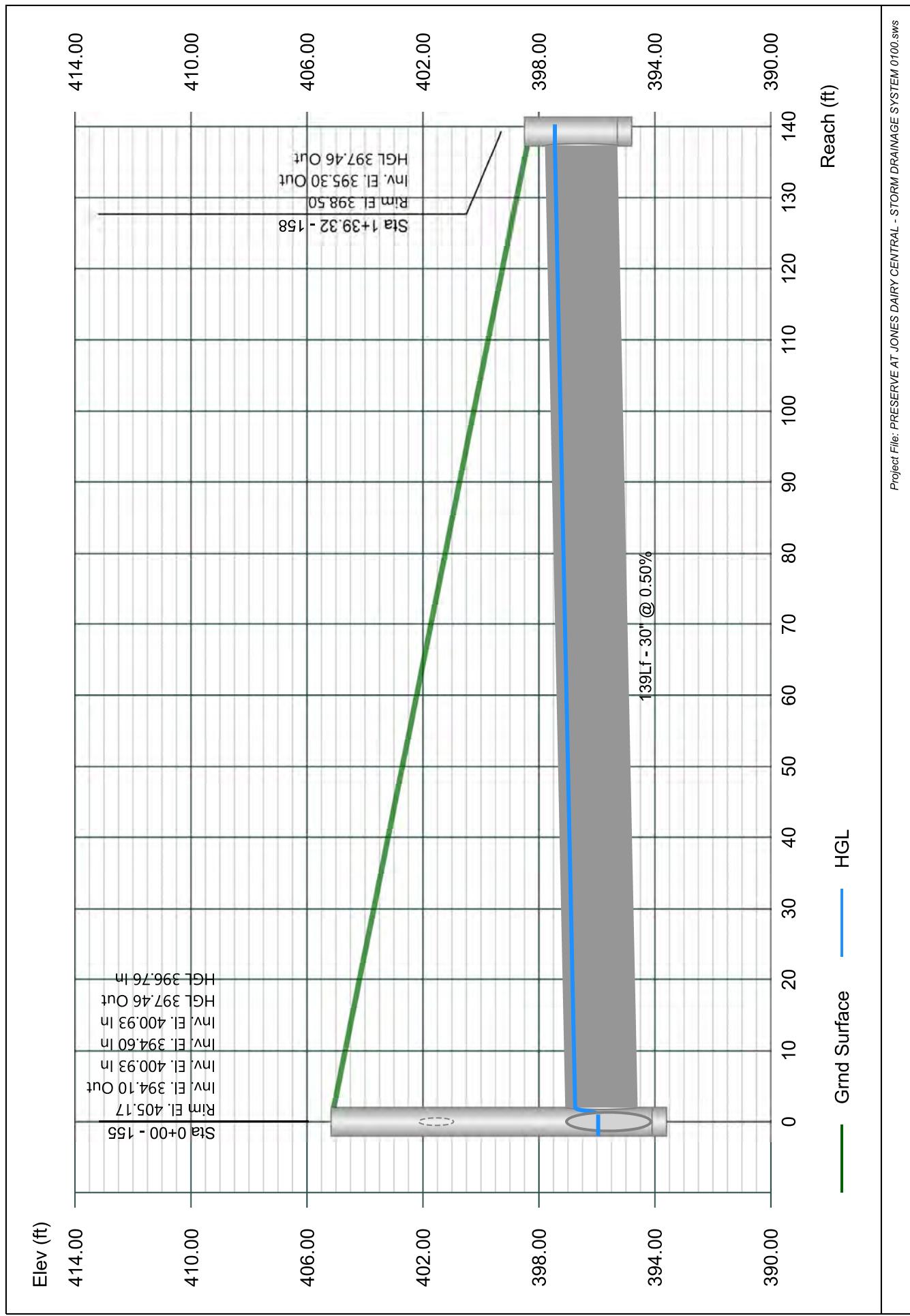


Line 58 - 158 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

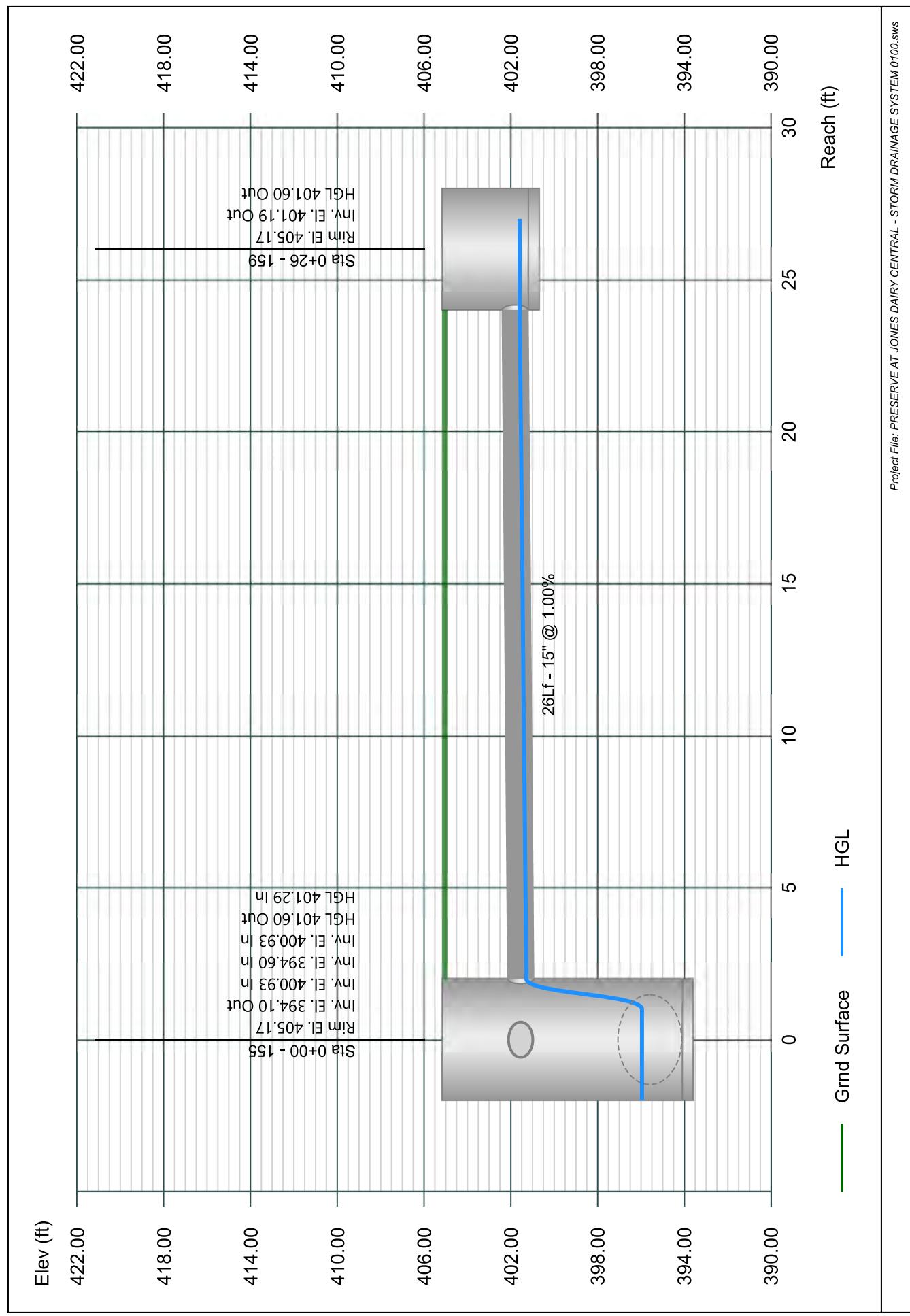


Line 59 - 159 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

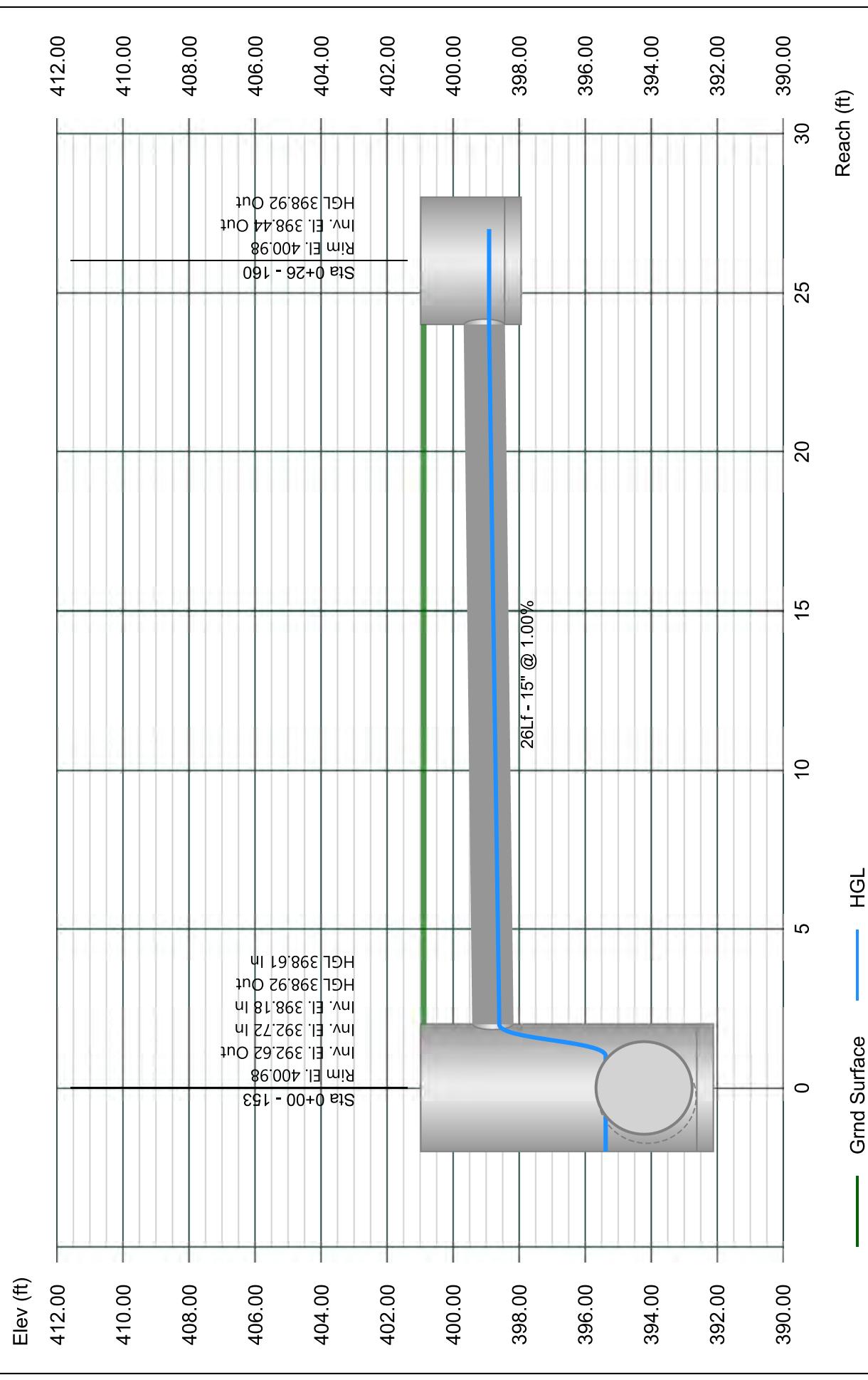


Line 60 - 160 TO 153

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



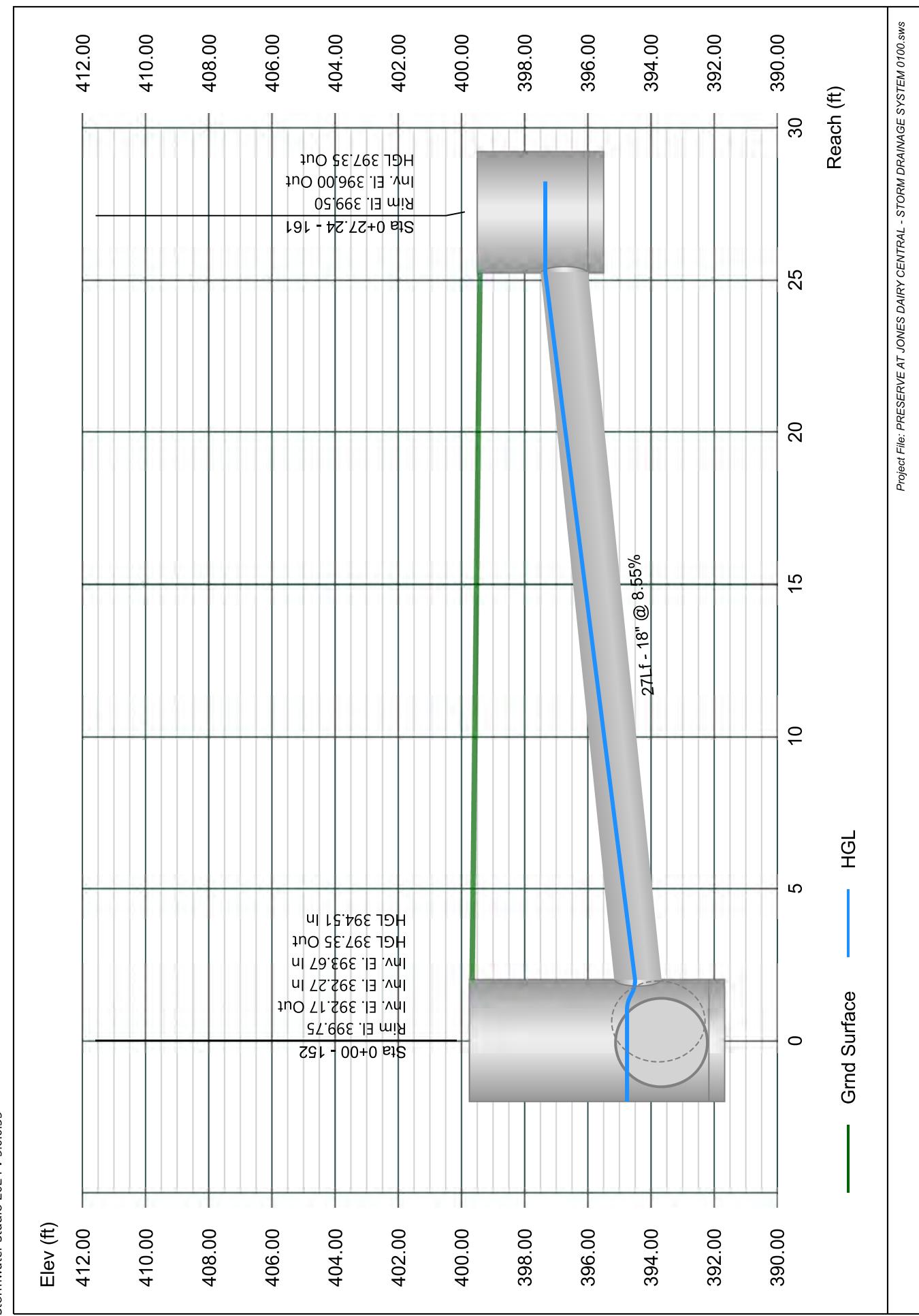
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 61 - 161 TO 152

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

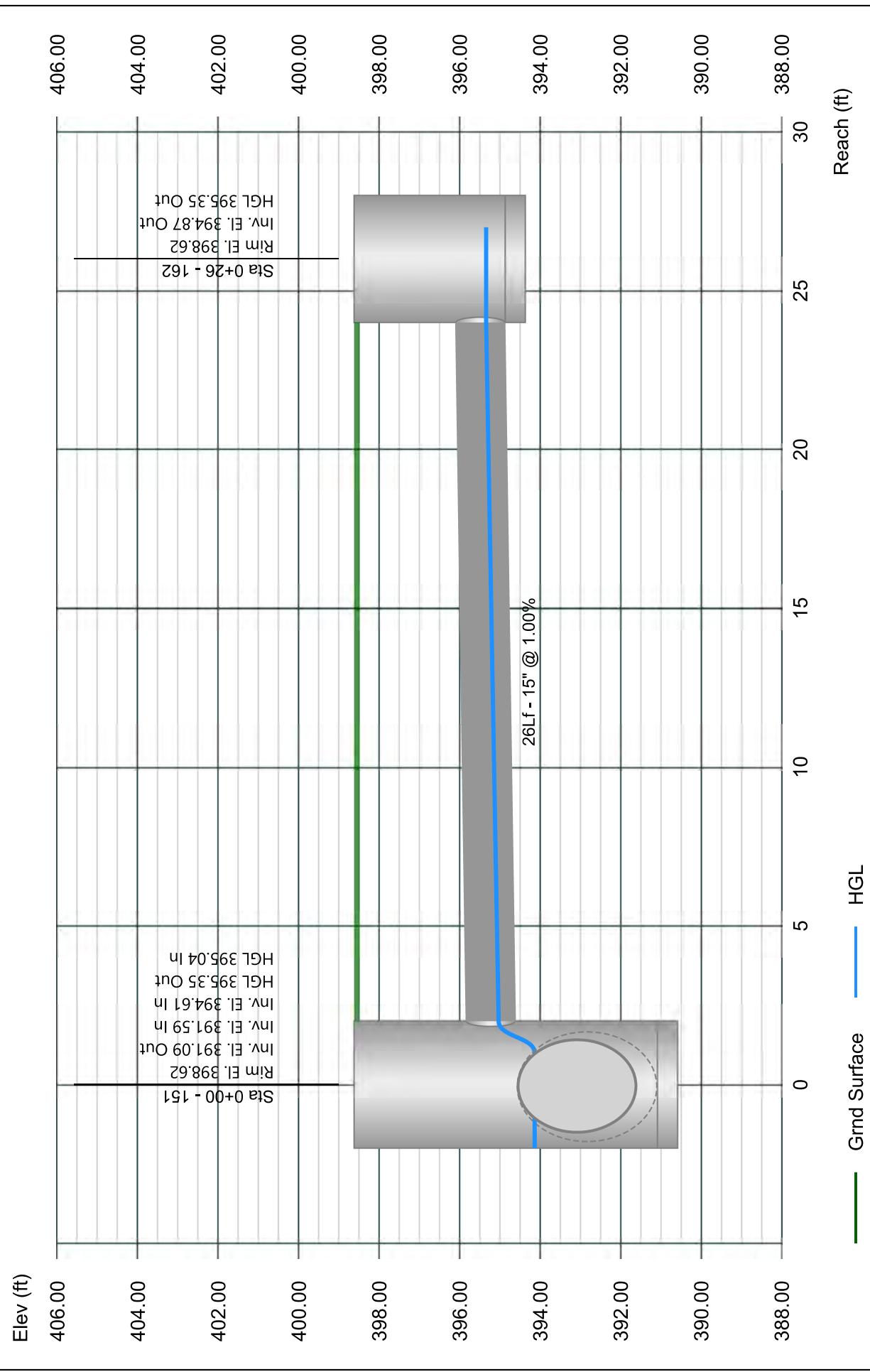


Line 62 - 163 TO 151

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

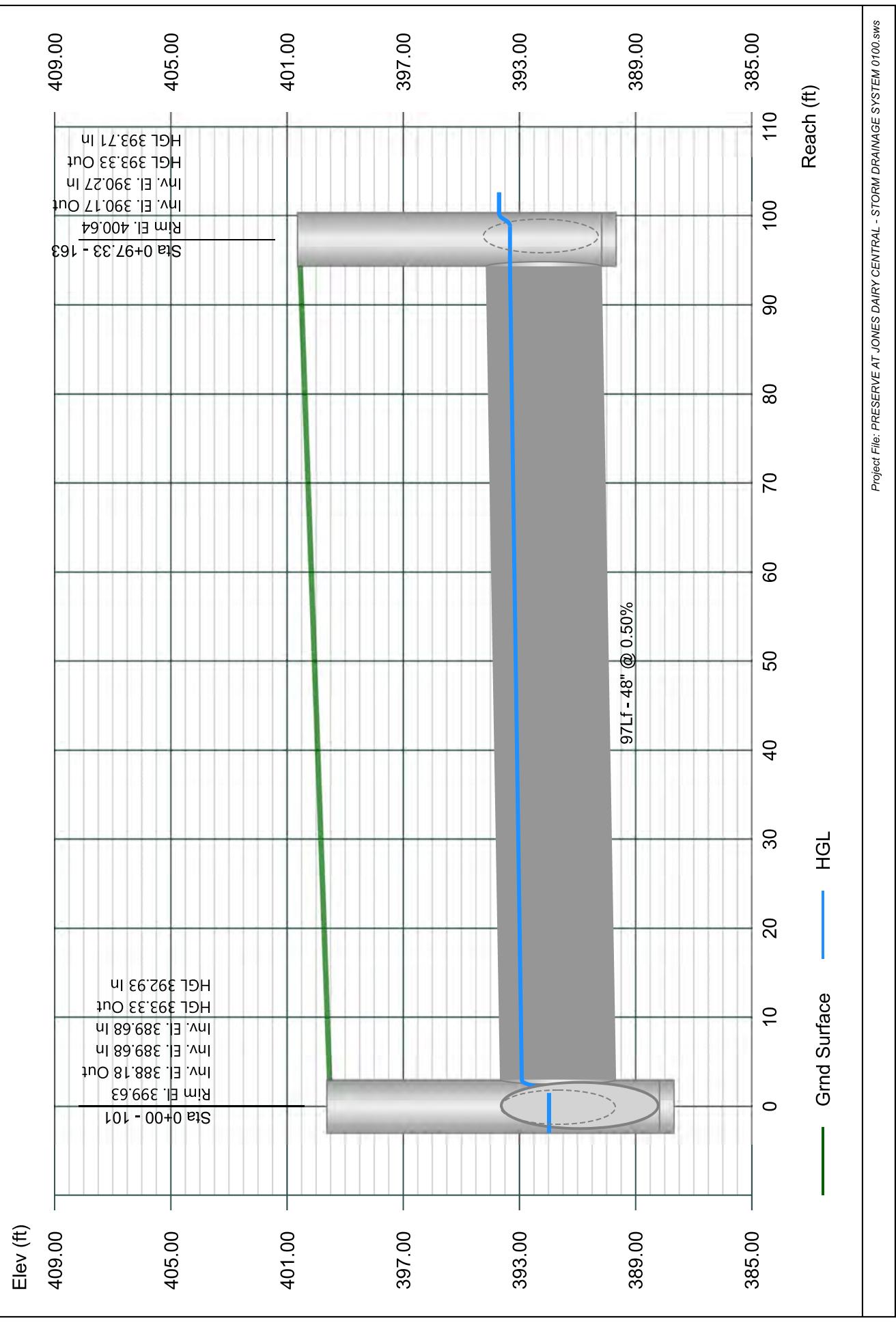


Line 63 - 163 TO 101

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

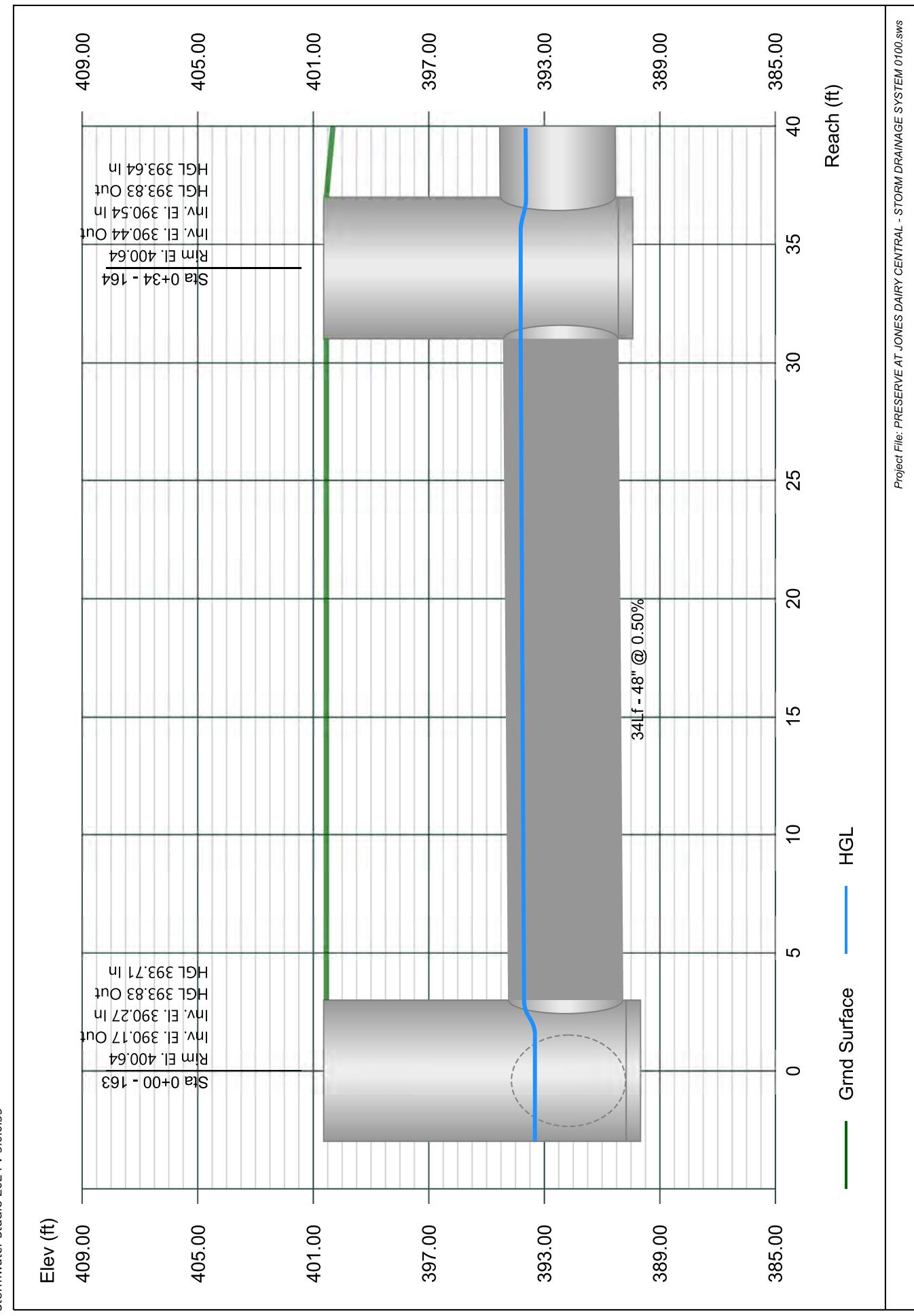


Line 64 - 164 TO 163

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

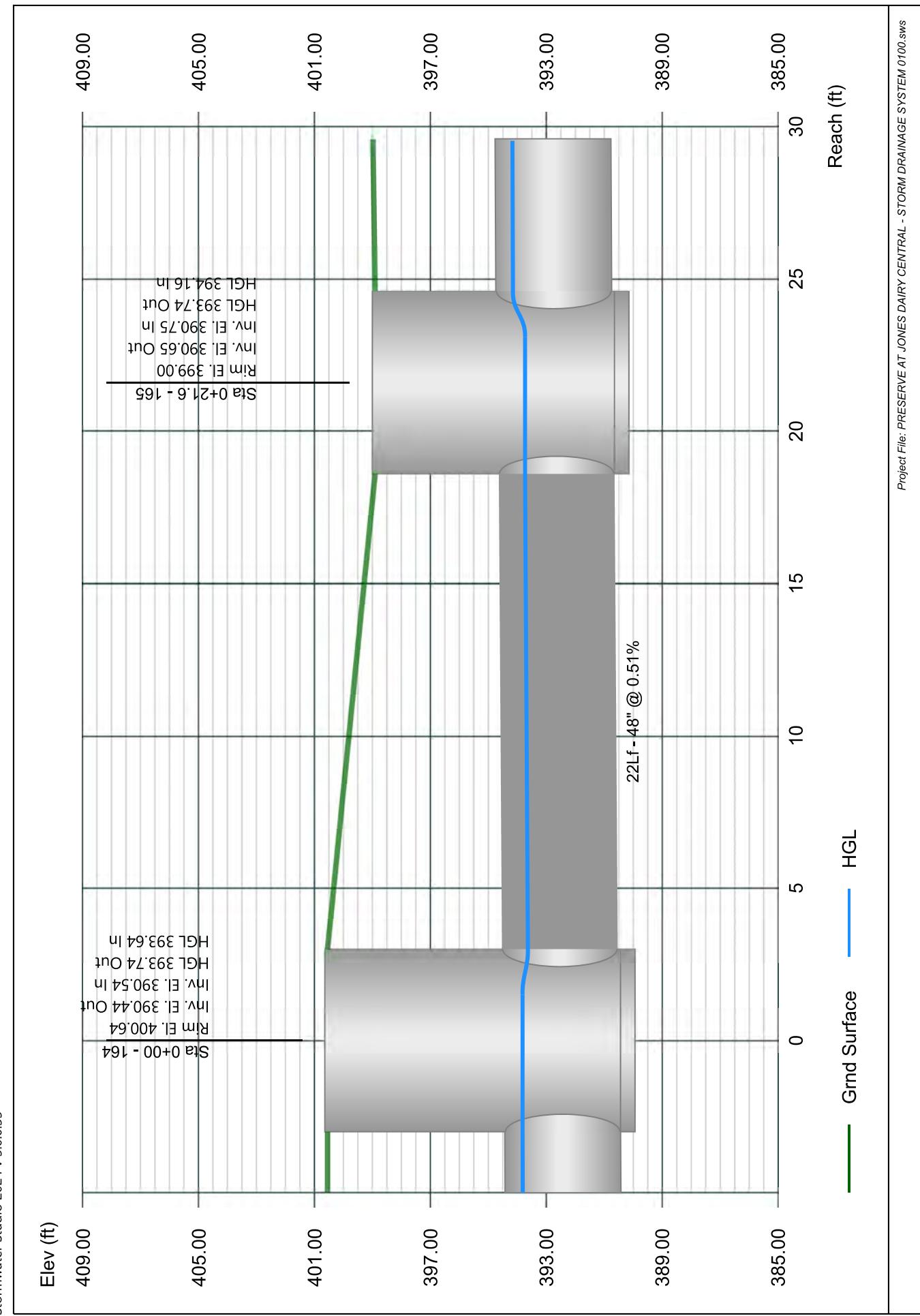


Line 65 - 165 TO 164

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

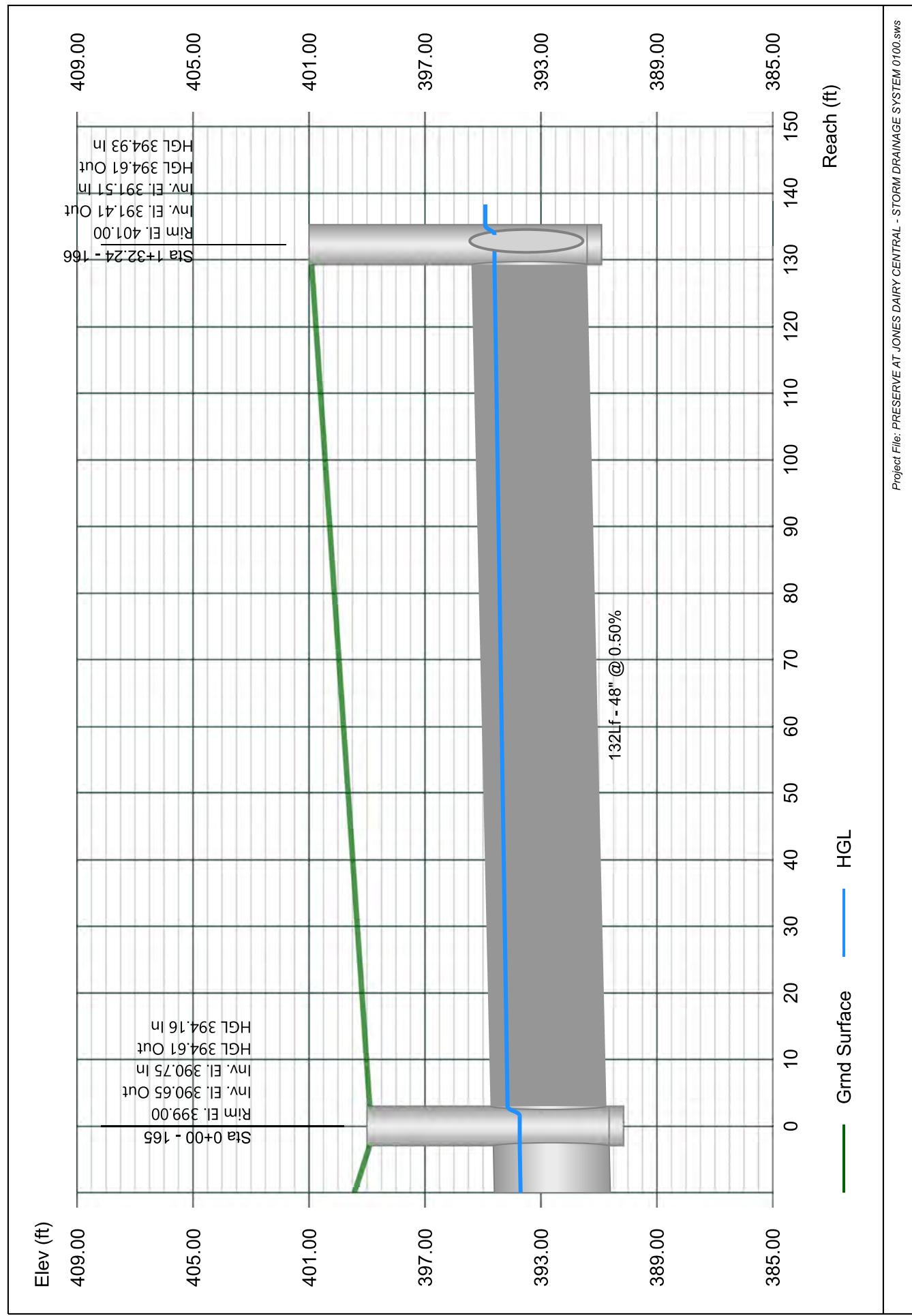


Line 66 - 166 TO 165

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

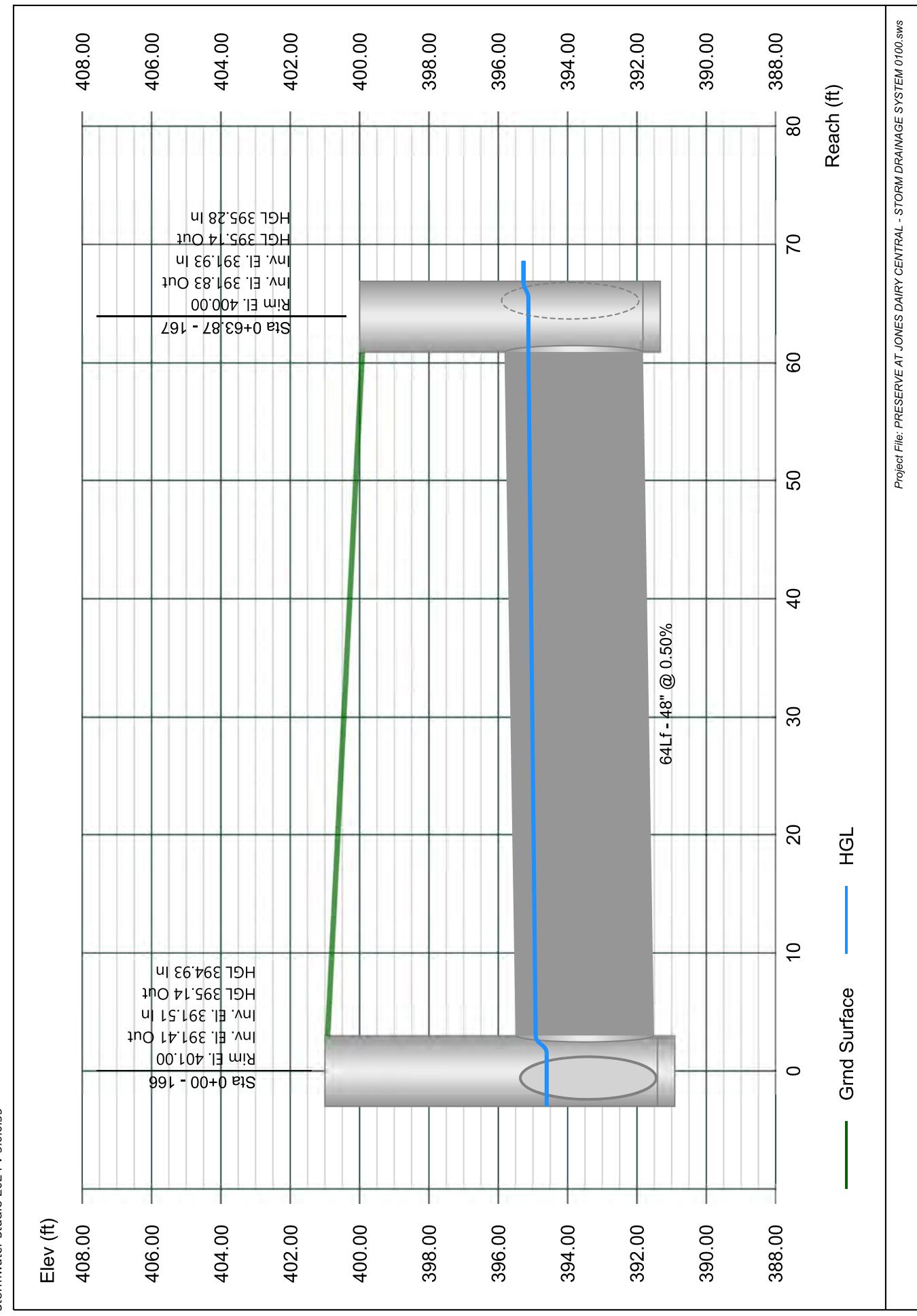


Line 67 - 167 TO 166

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

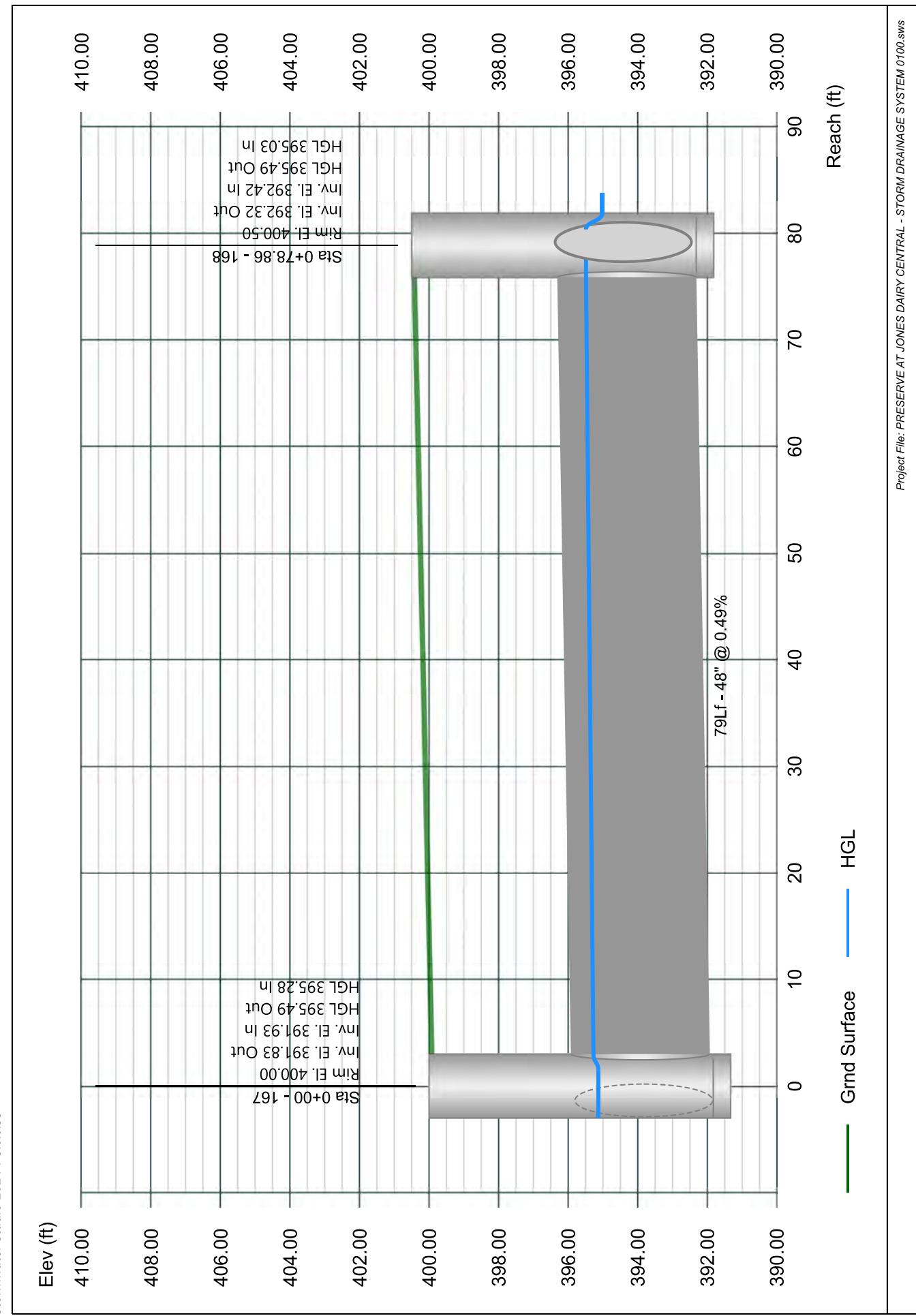


Line 68 - 168 TO 167

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

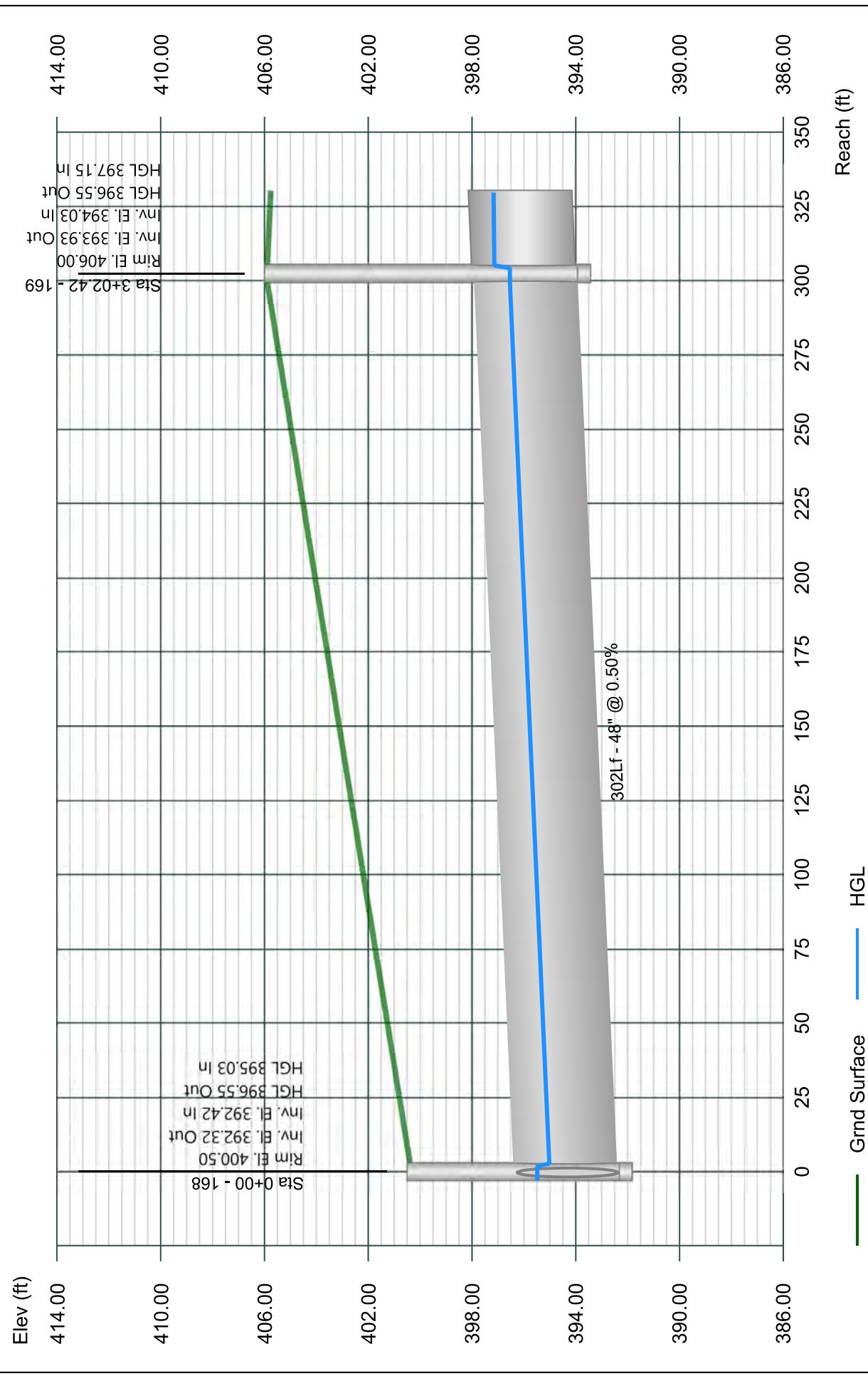


Line 69 - 169 TO 168

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

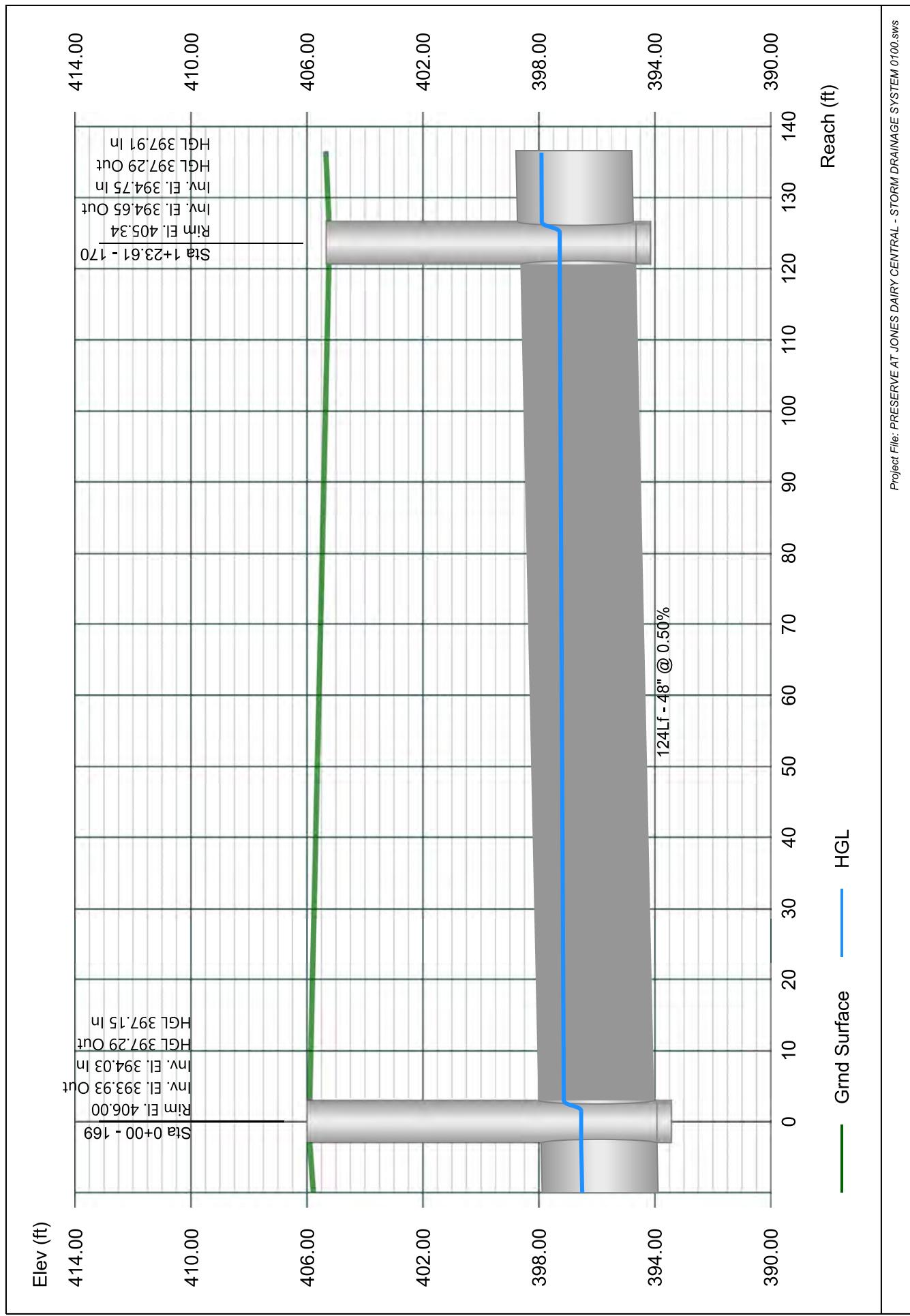


Line 70 - 170 TO 169

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

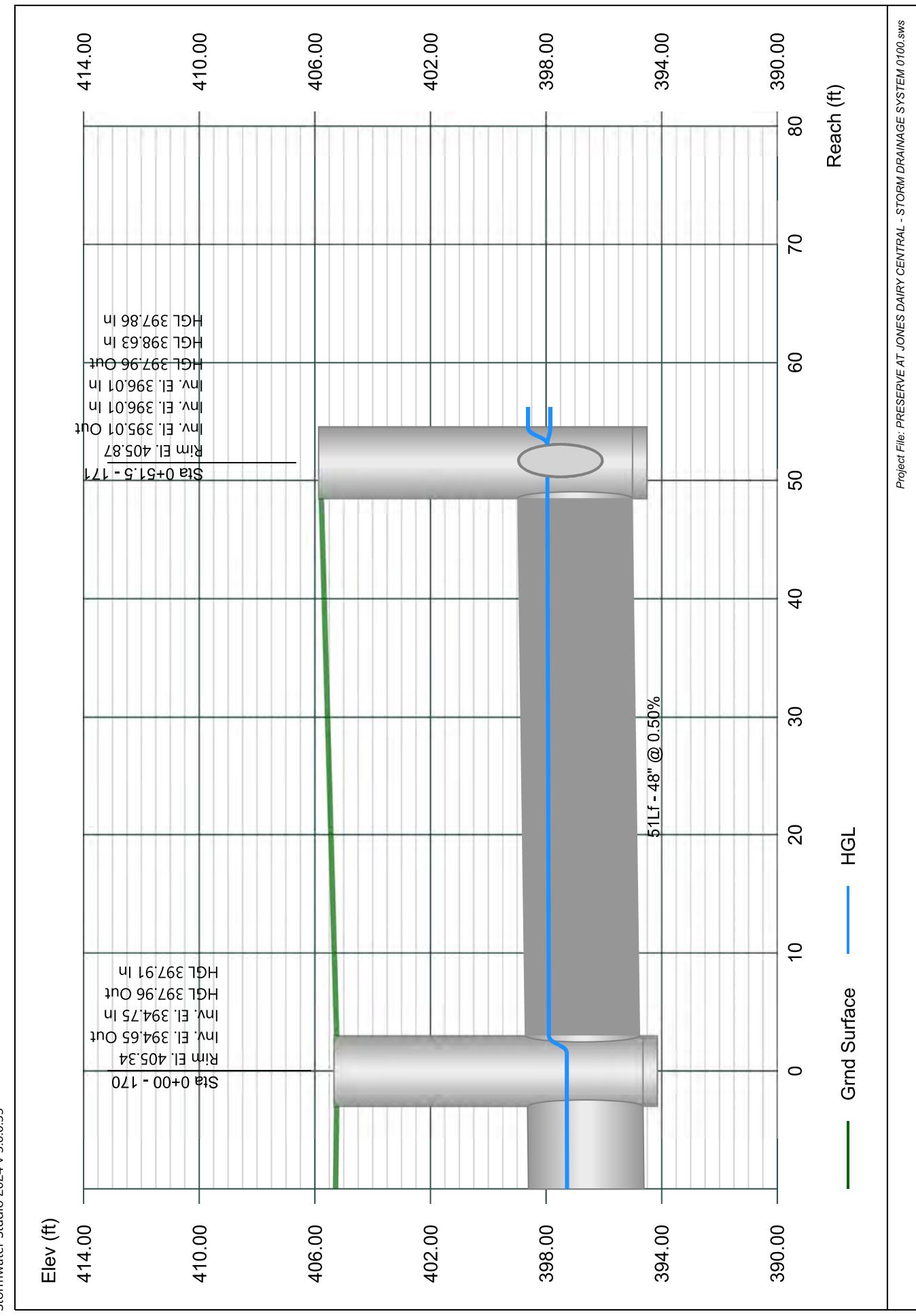


Line 71 - 171 TO 170

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

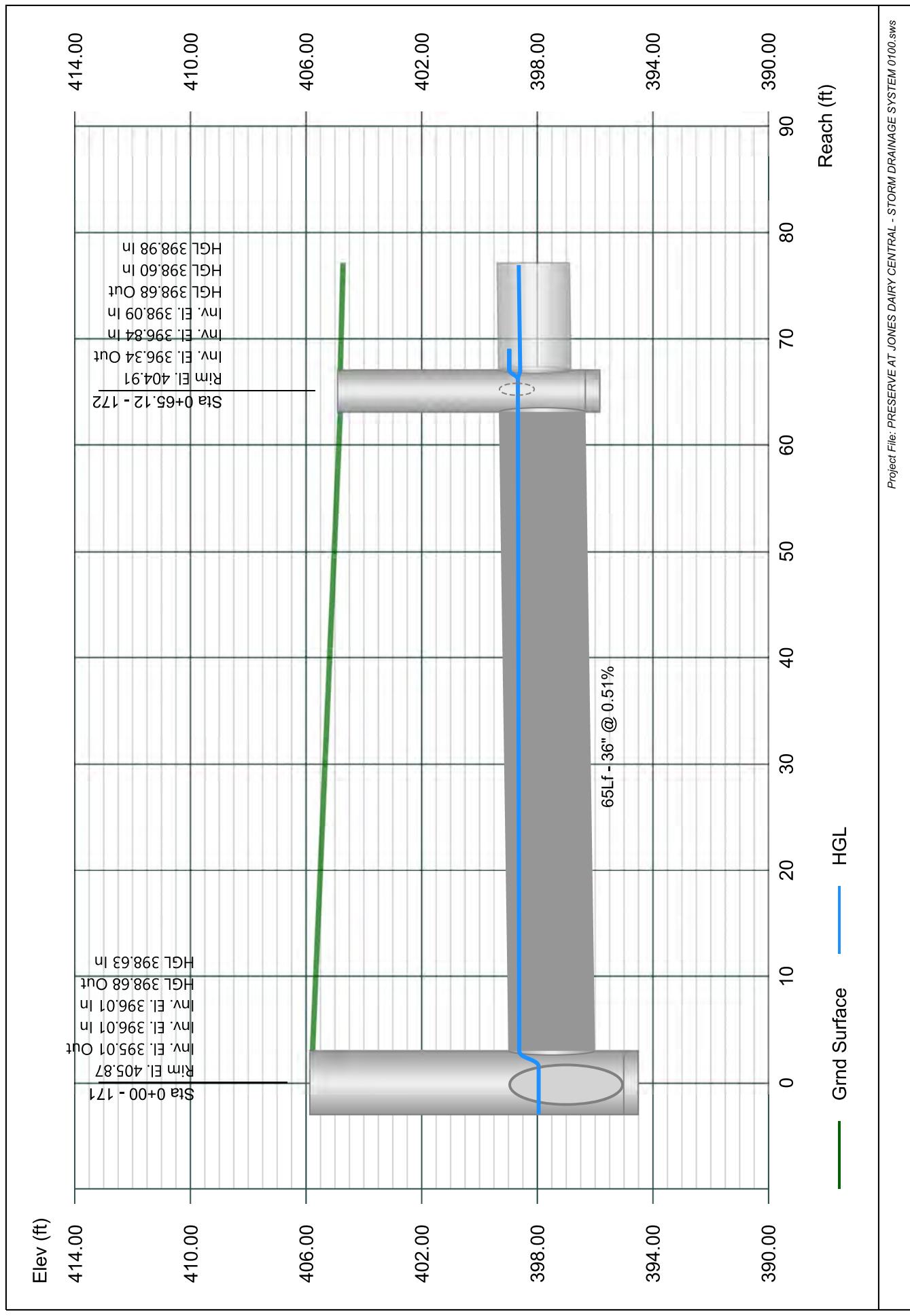


Line 72 - 172 TO 171

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

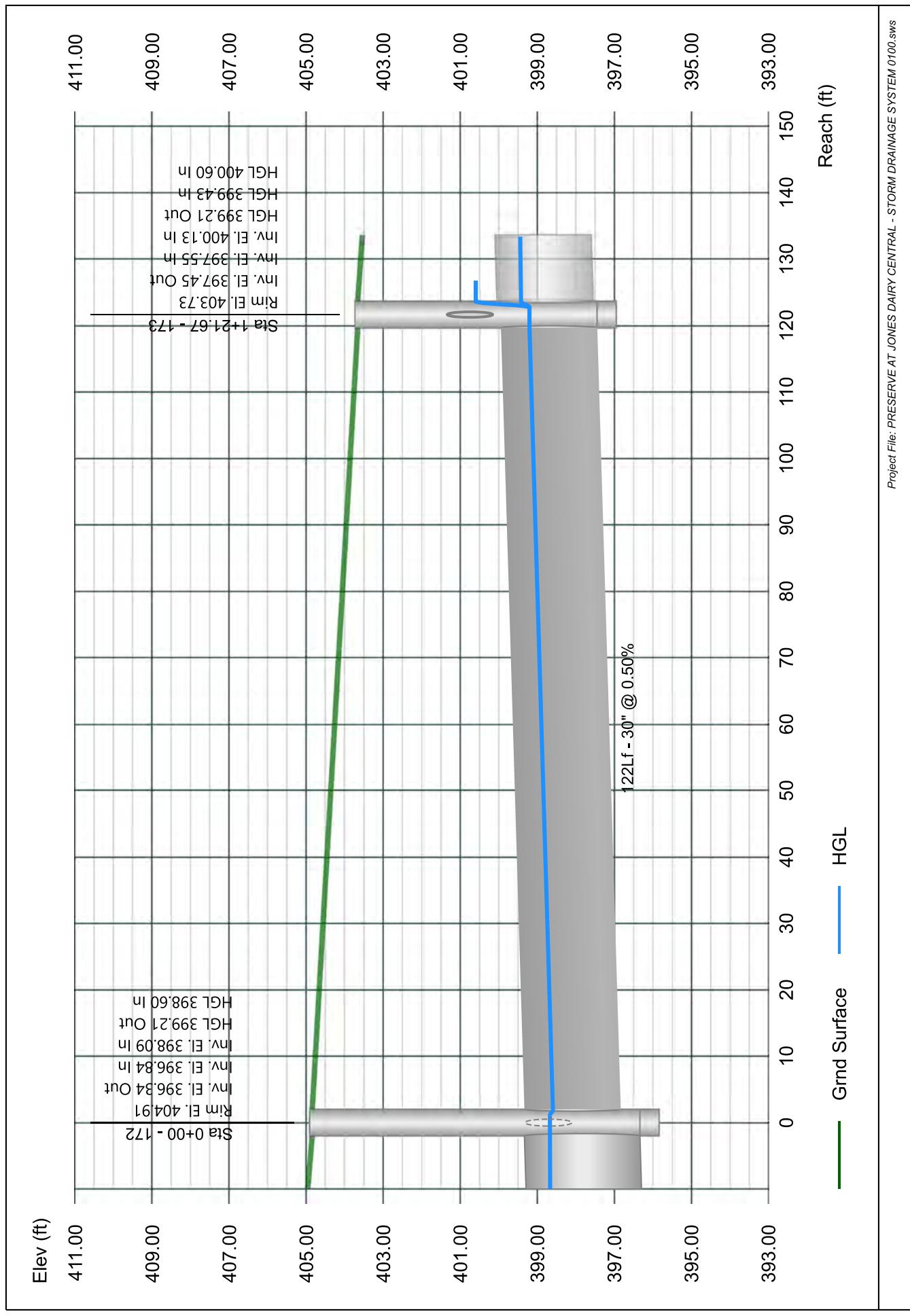


Line 73 - 173 TO 172

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

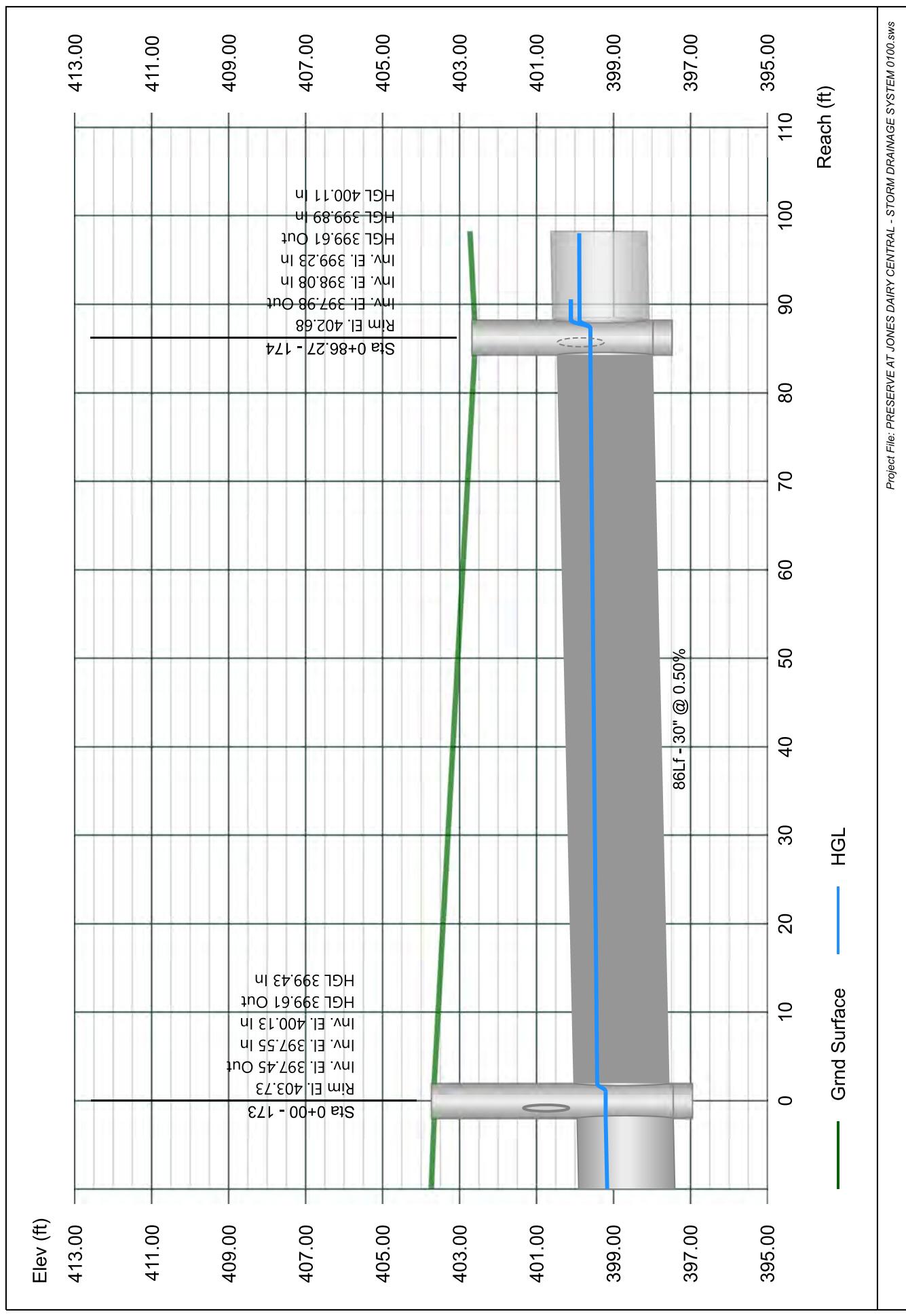


Line 74 - 174 TO 173

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

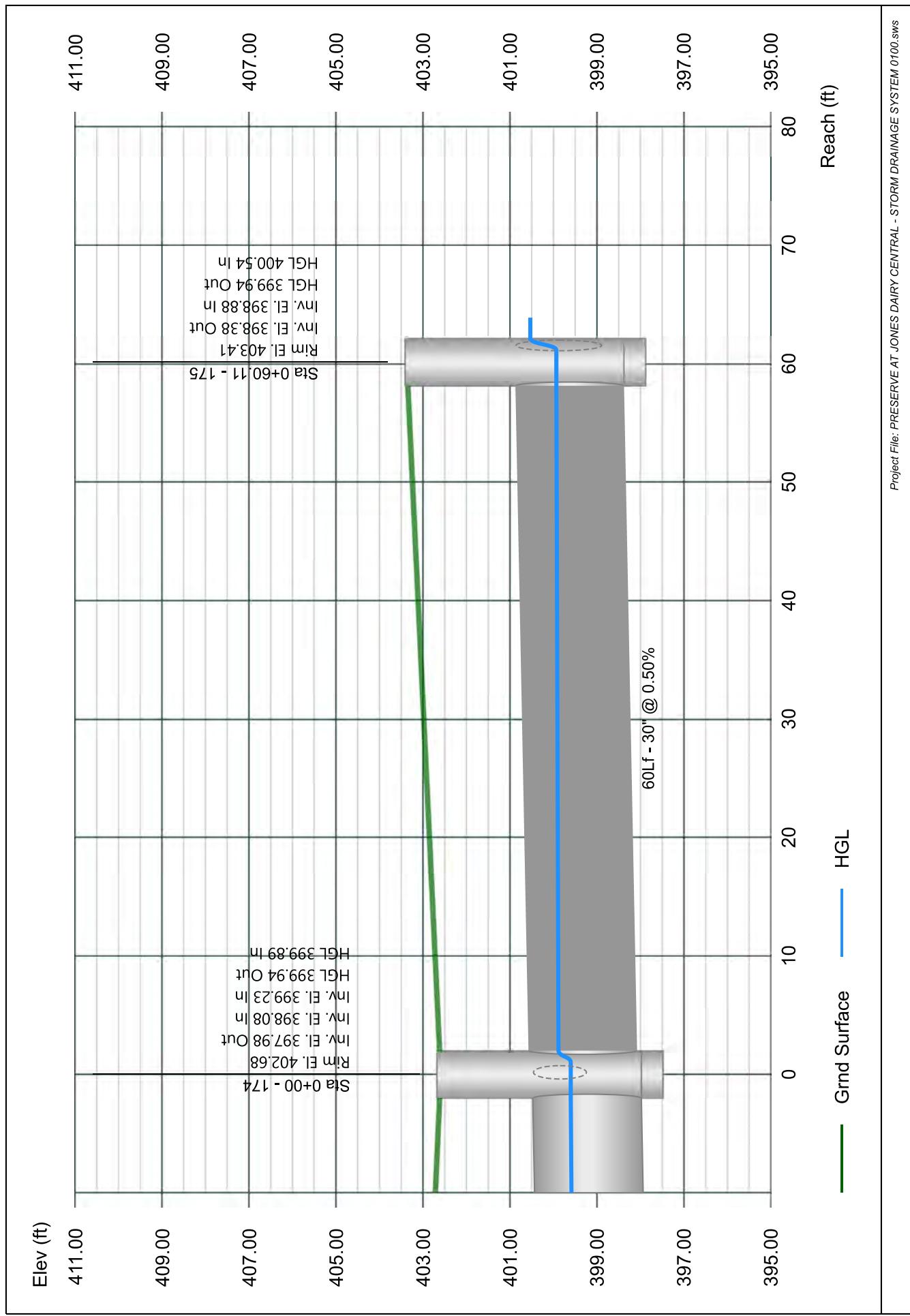


Line 75 - 175 TO 174

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

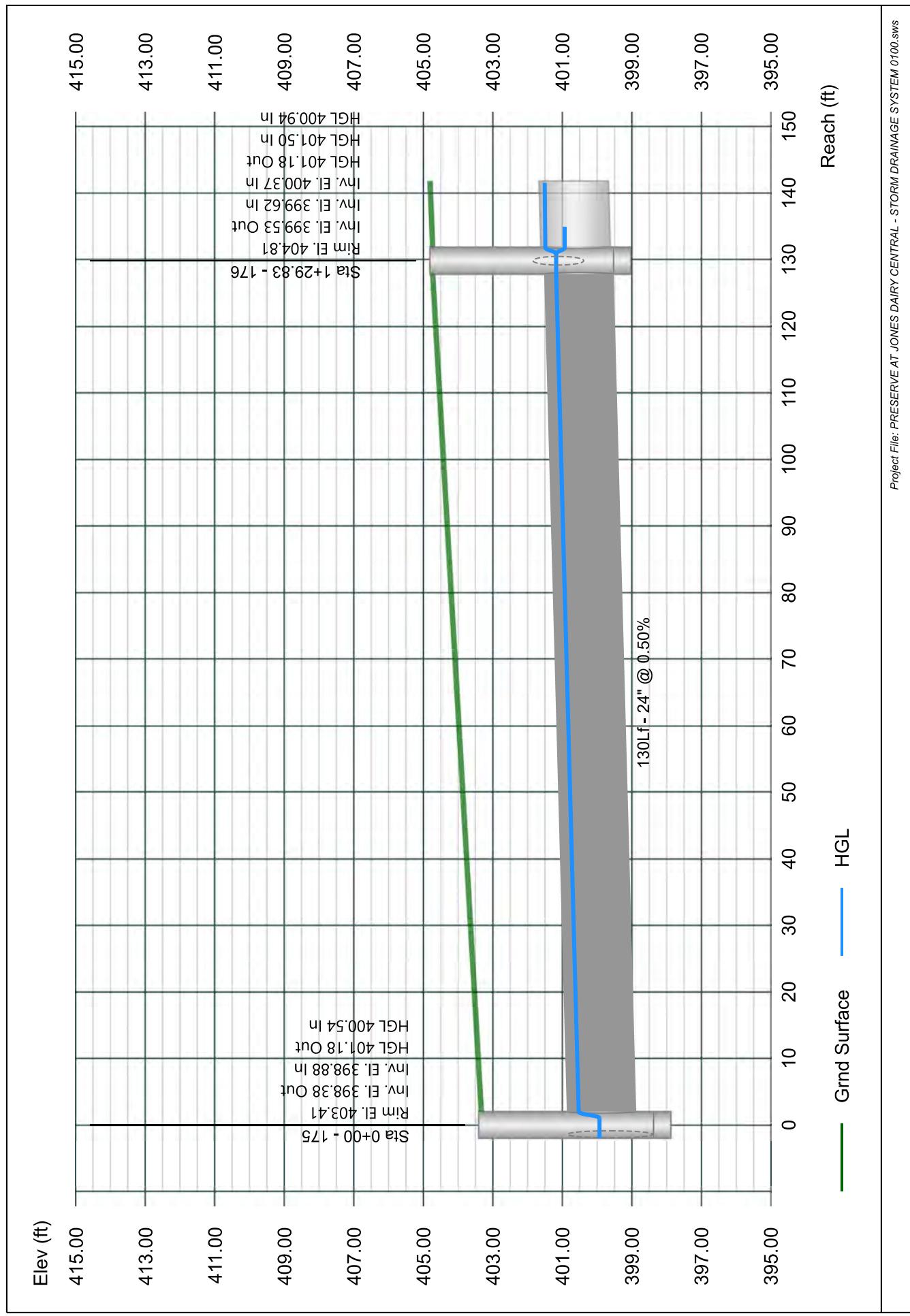


Line 76 - 176 TO 175

Line 76 - 176 - Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

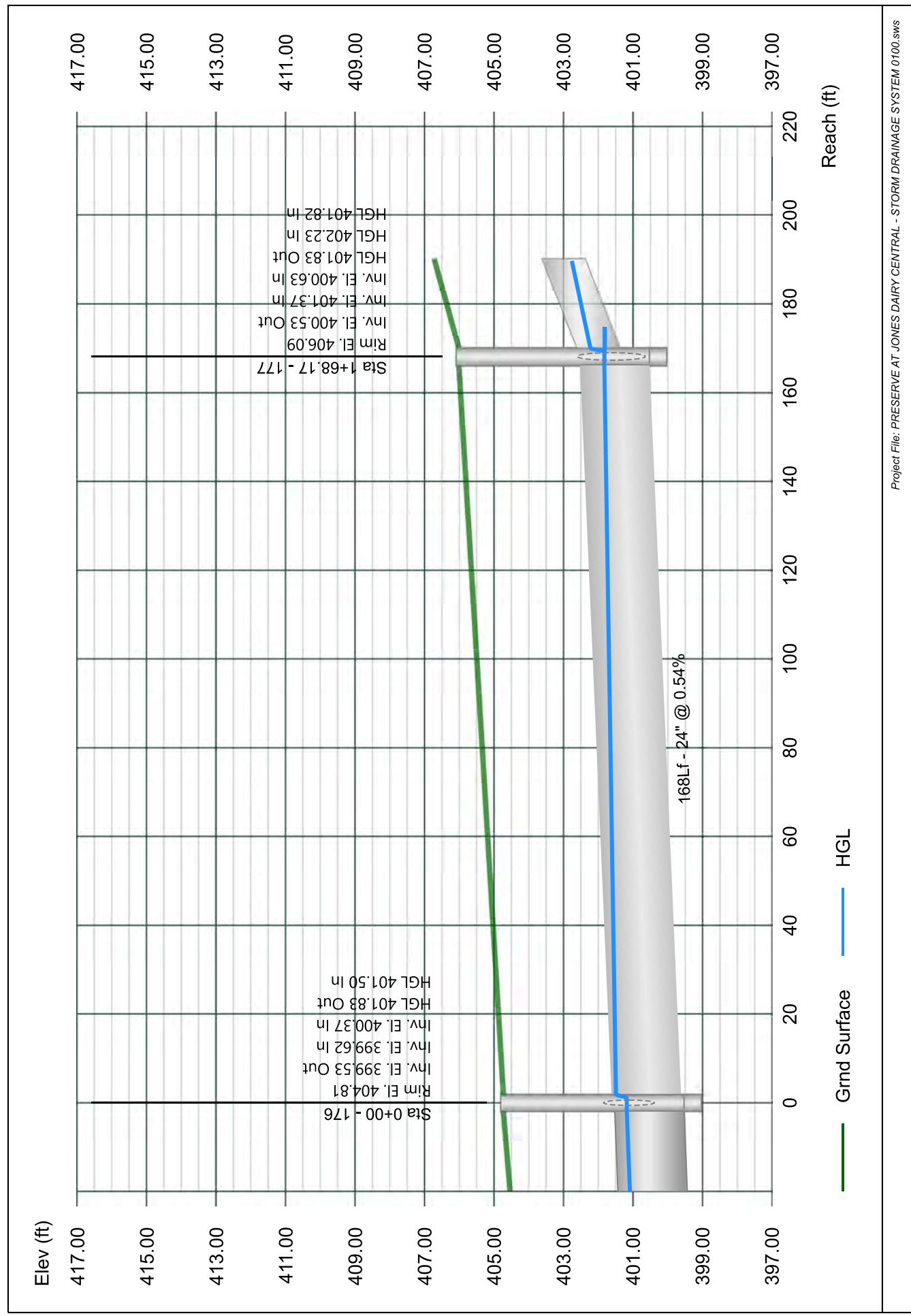
01-19-2024



Line 77 - 177 TO 176

Project Name: Enter Project Name...

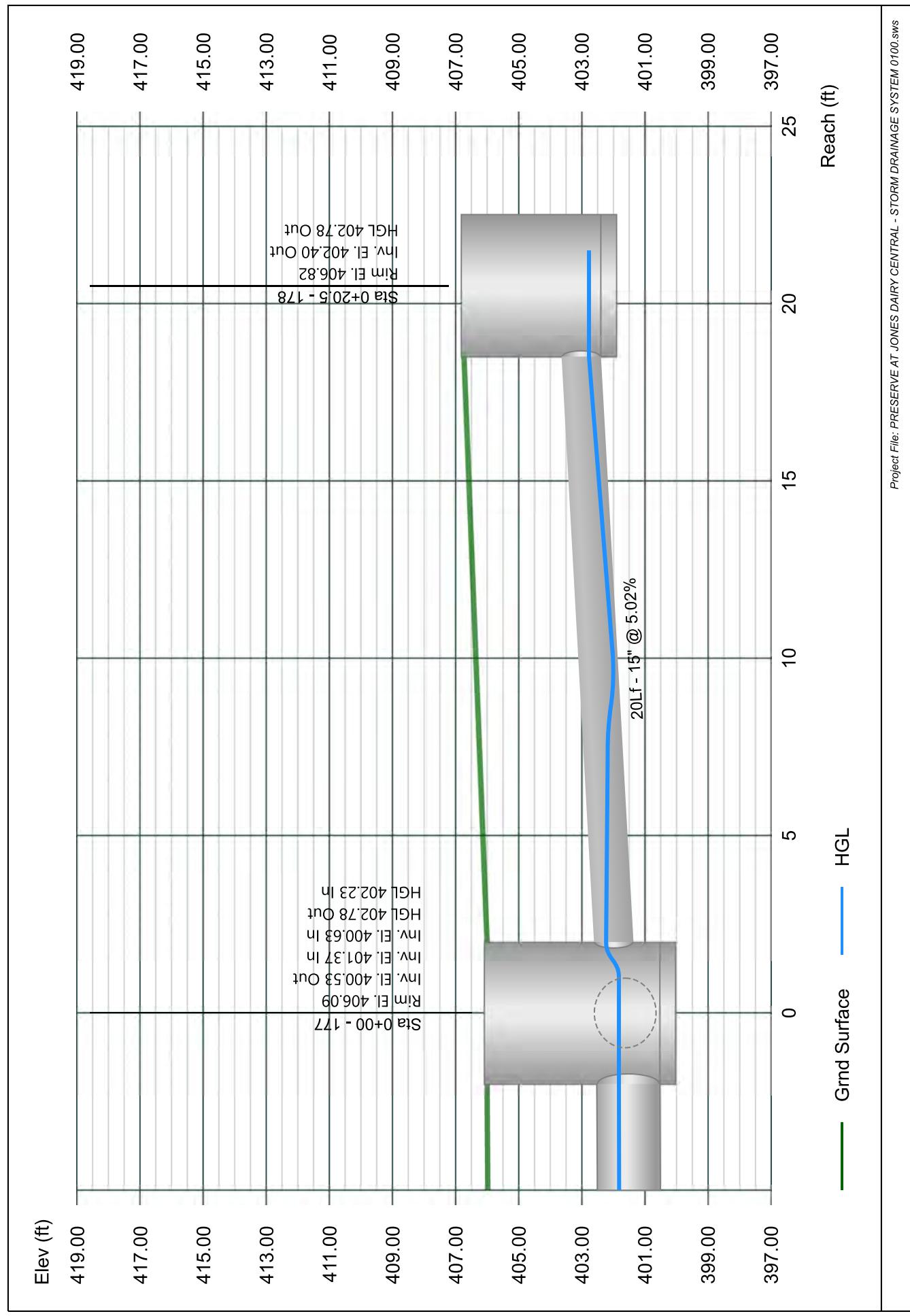
01-19-2024



Line 78 - 178 TO 177

Project Name: Enter Project Name...

01-19-2024

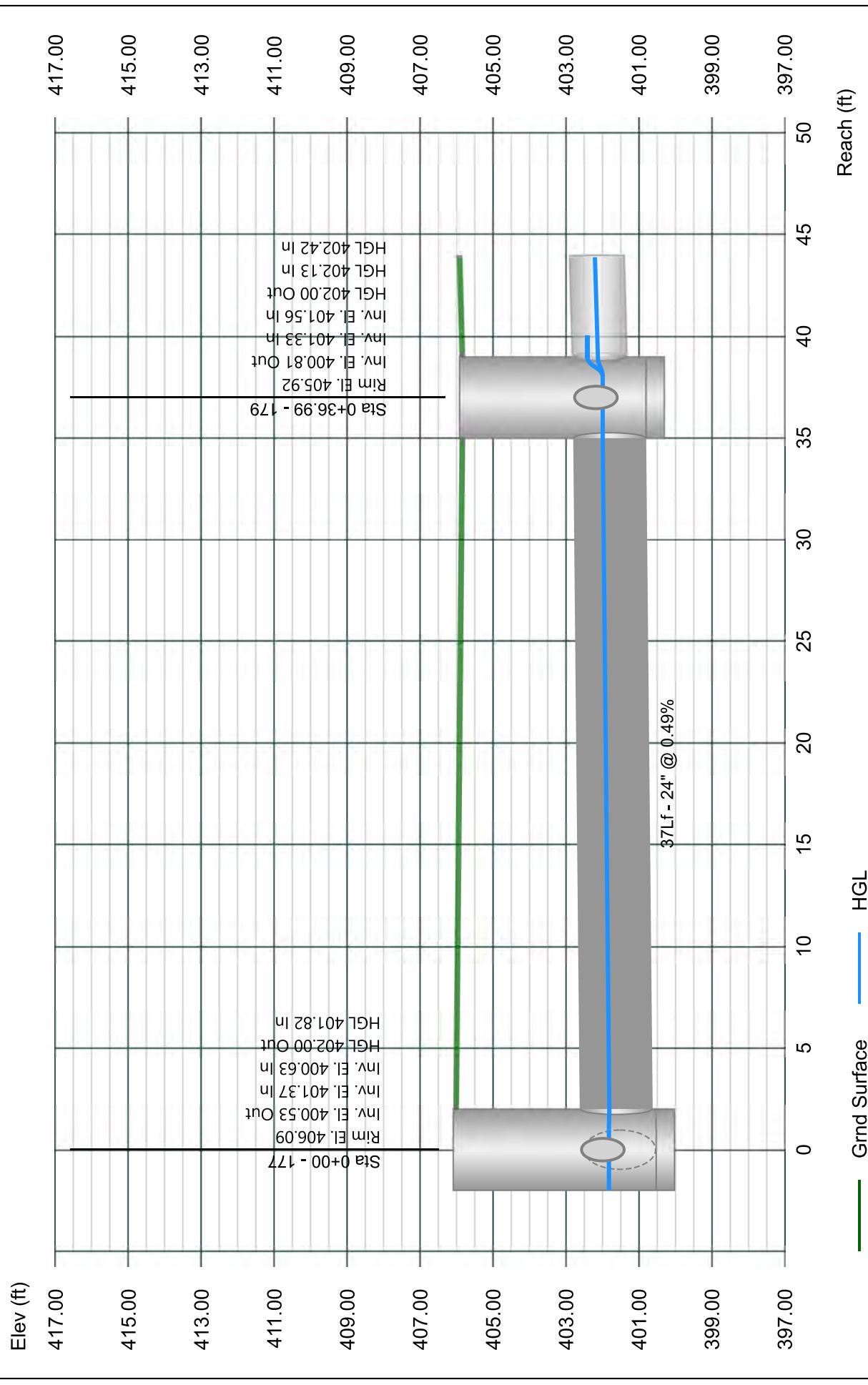


Line 79 - 179 TO 177

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

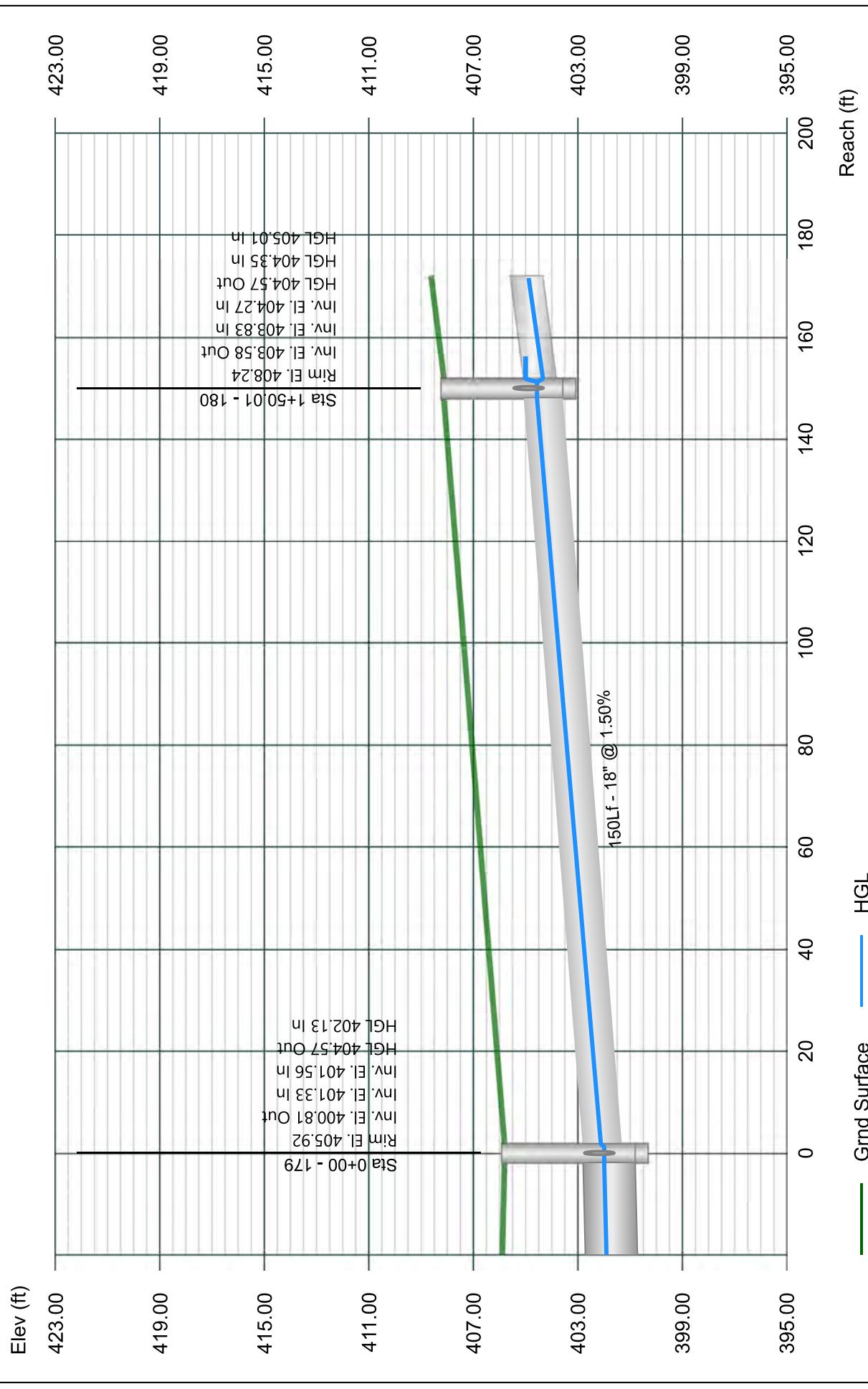


Line 80 - 180 TO 179

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



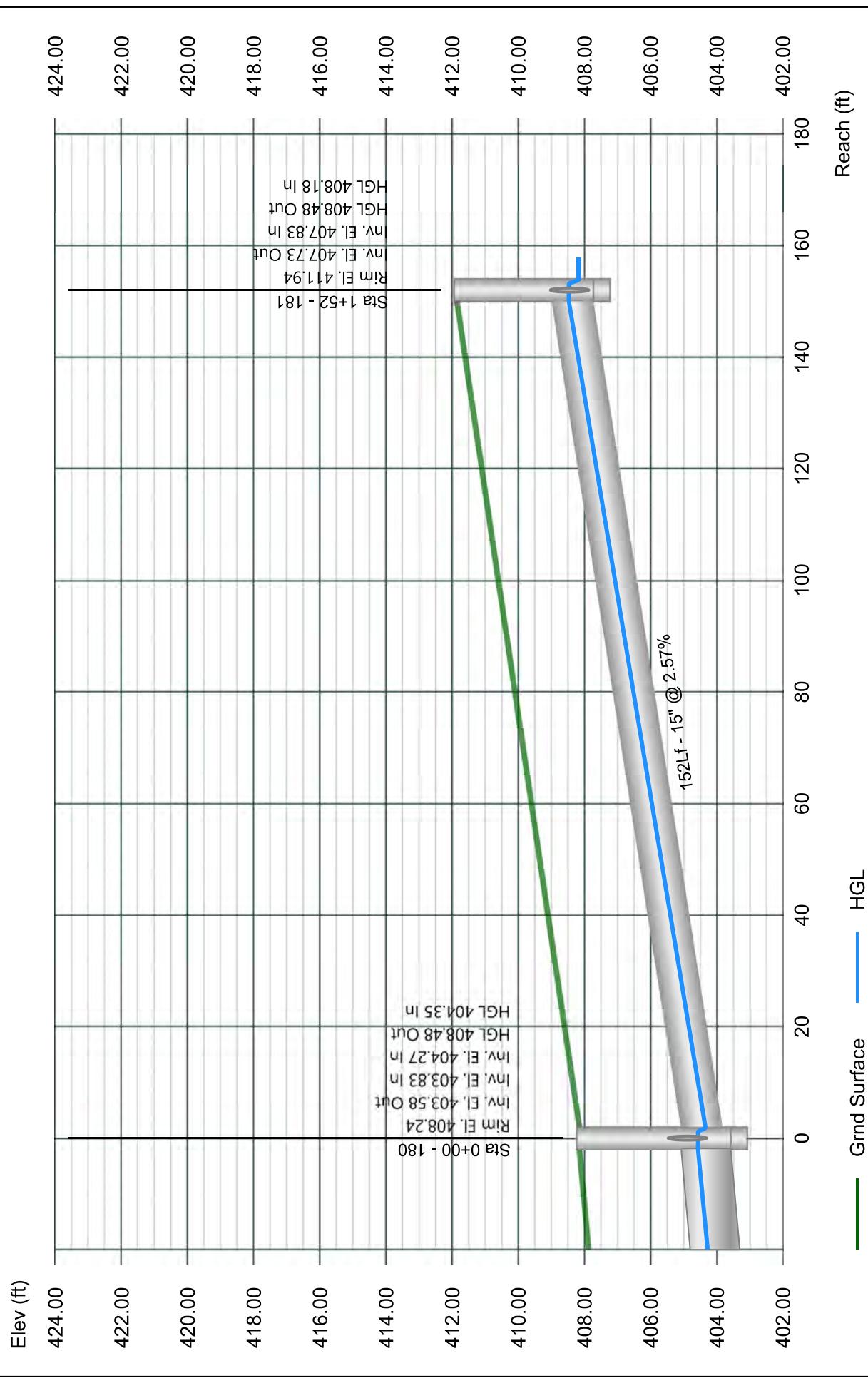
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 81 - 181 TO 180

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

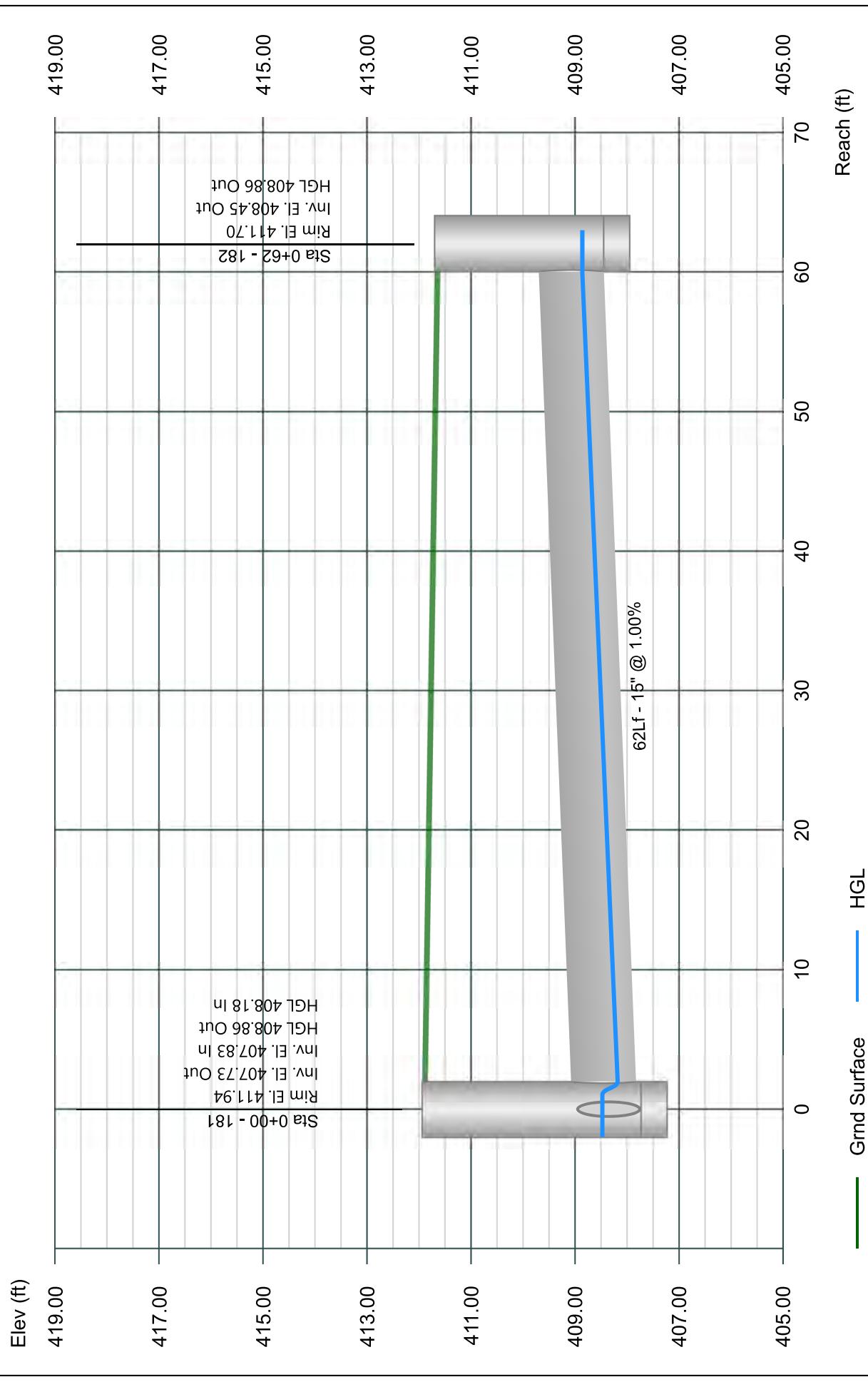


Line 82 - 182 TO 181

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

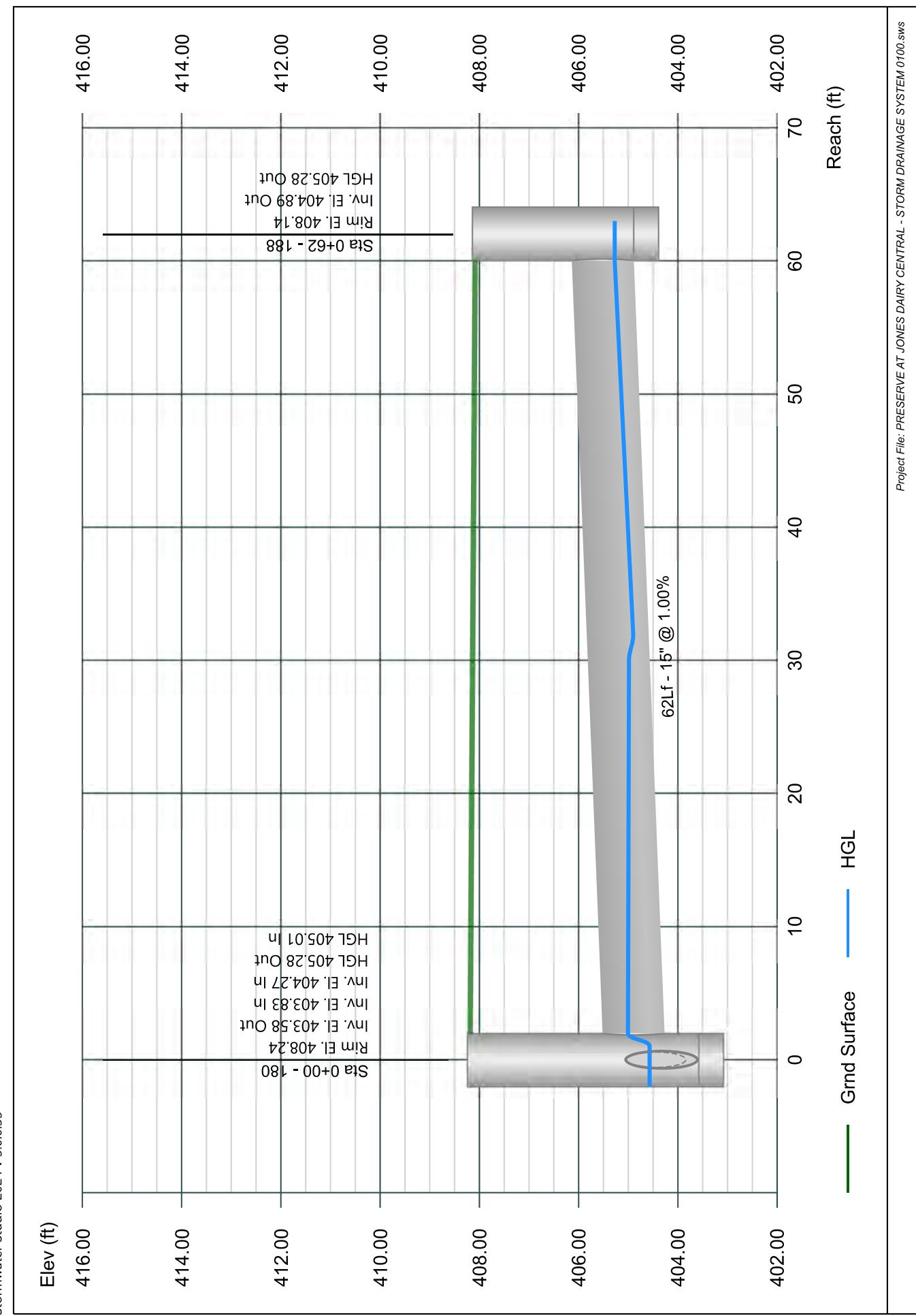


Line 83 - 188 TO 180

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

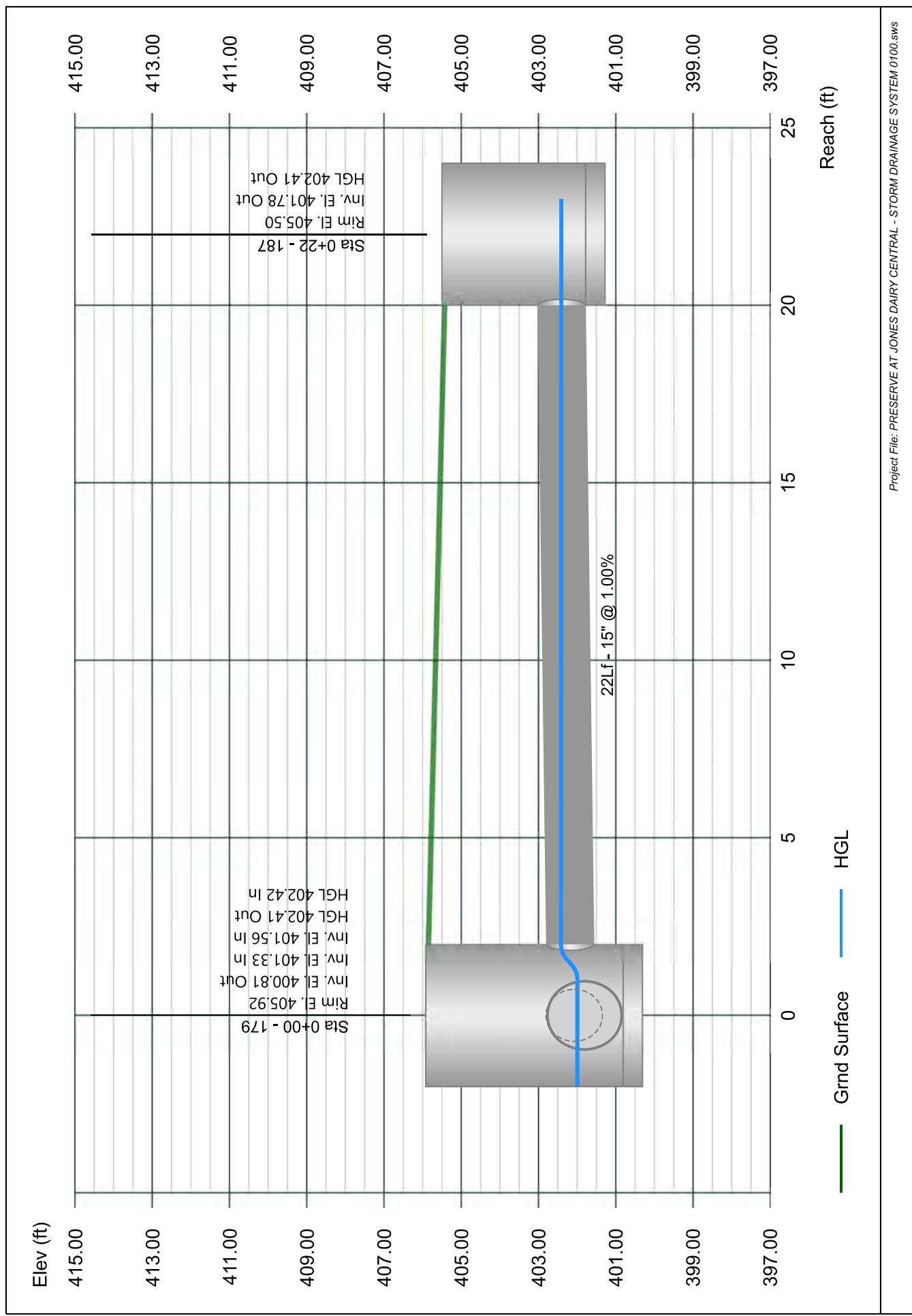


Line 84 - 187 TO 179

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

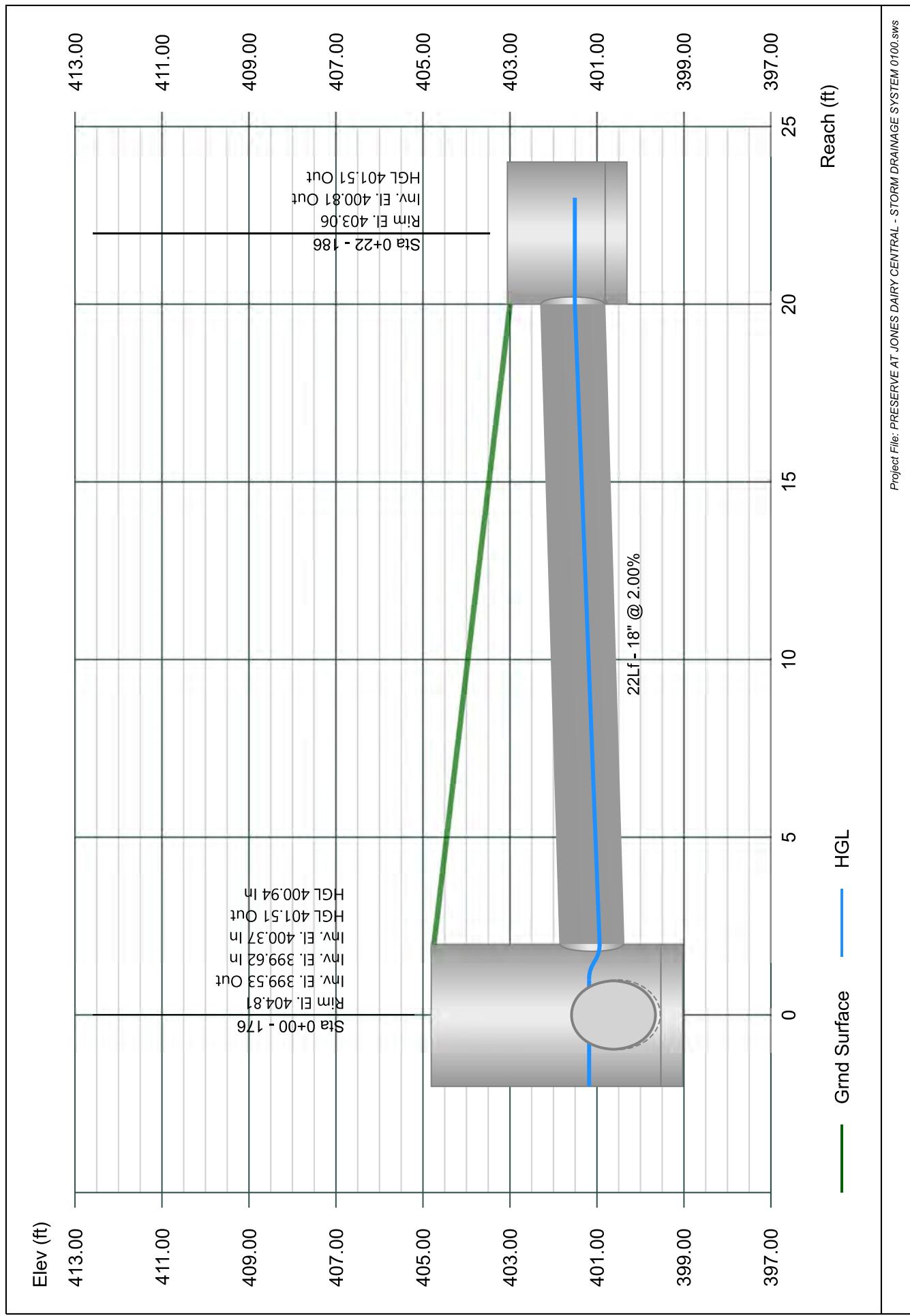


Line 85 - 186 TO 176

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

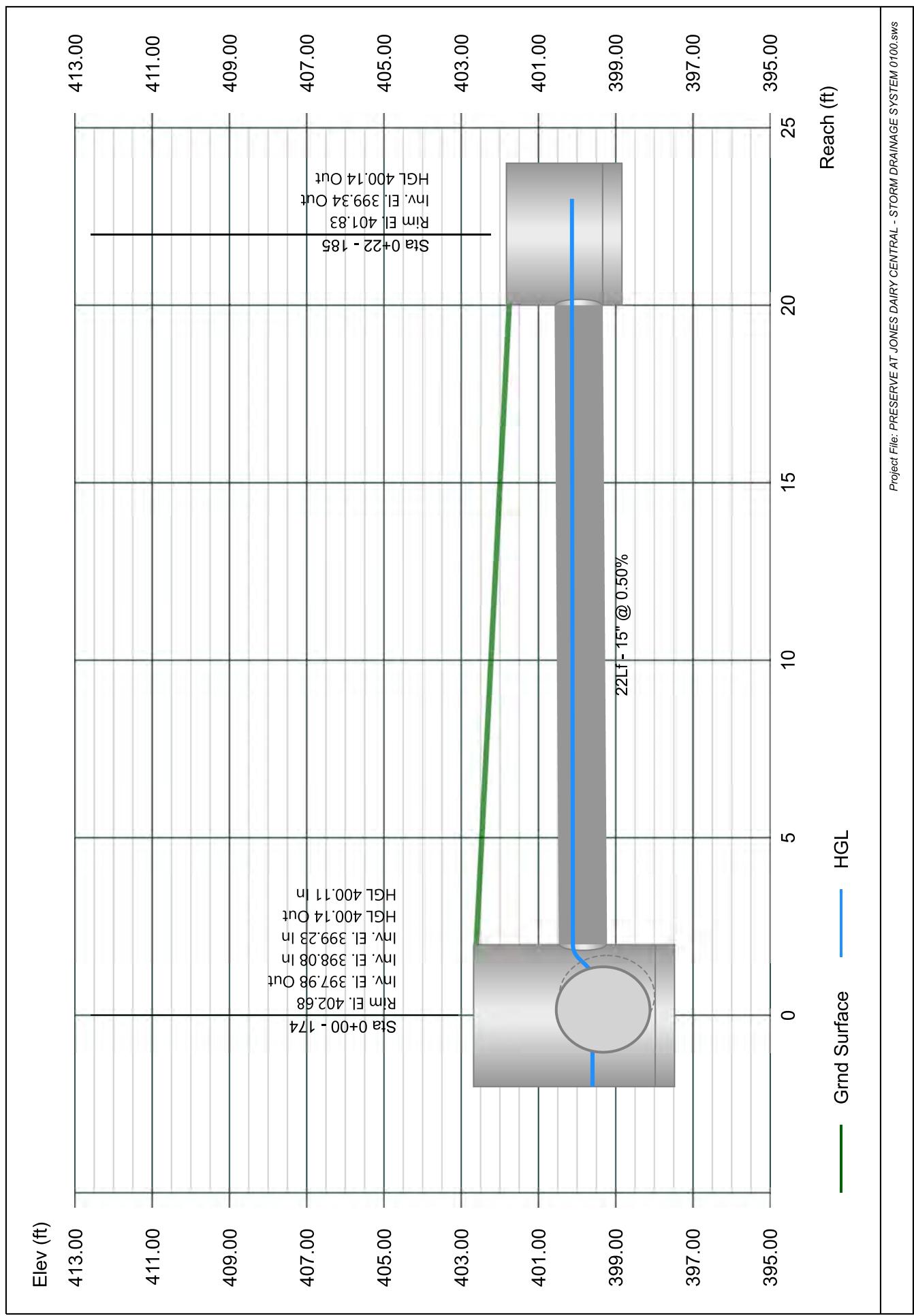


Line 86 - 185 TO 174

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

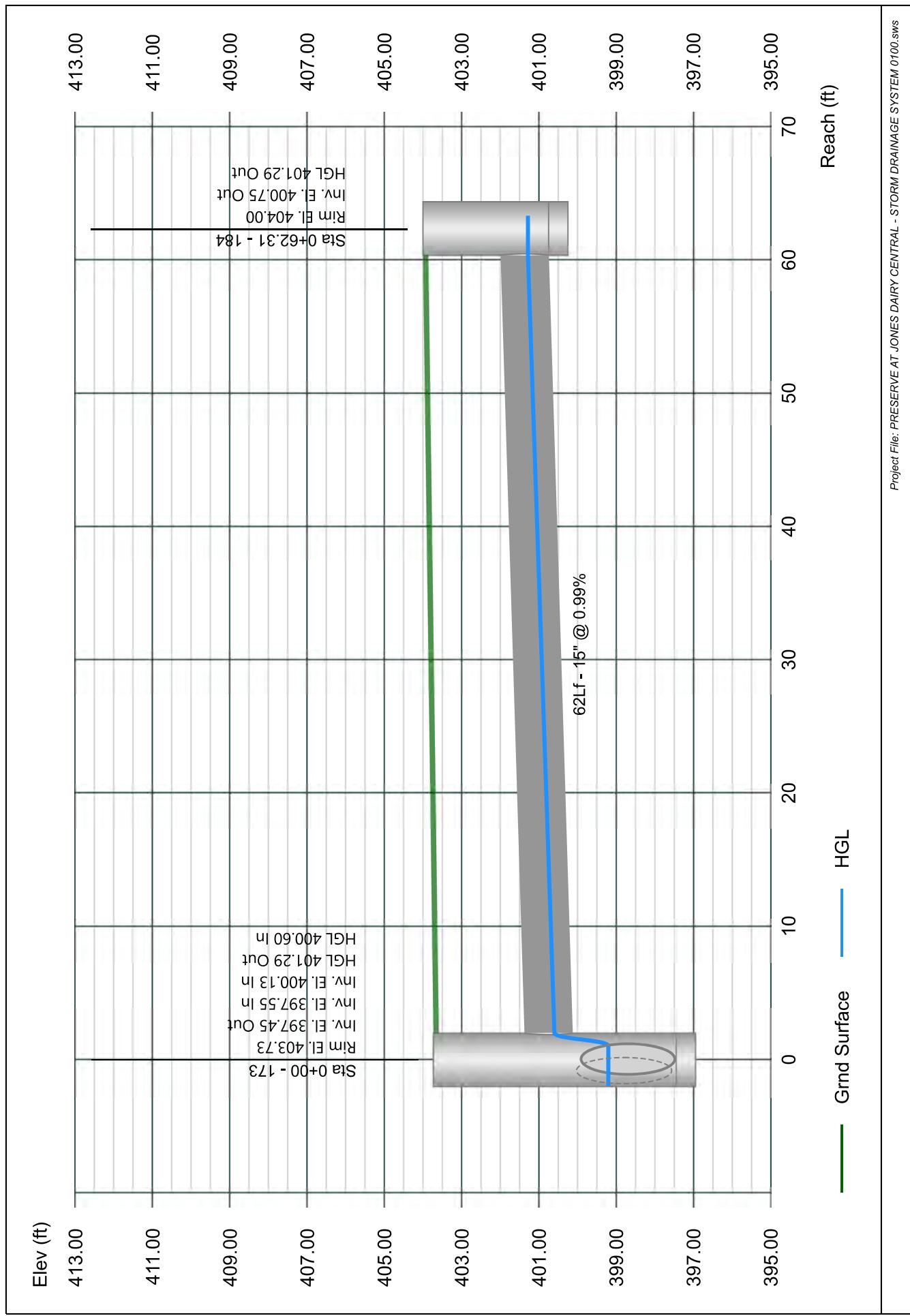


Line 87 - 184 TO 173

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

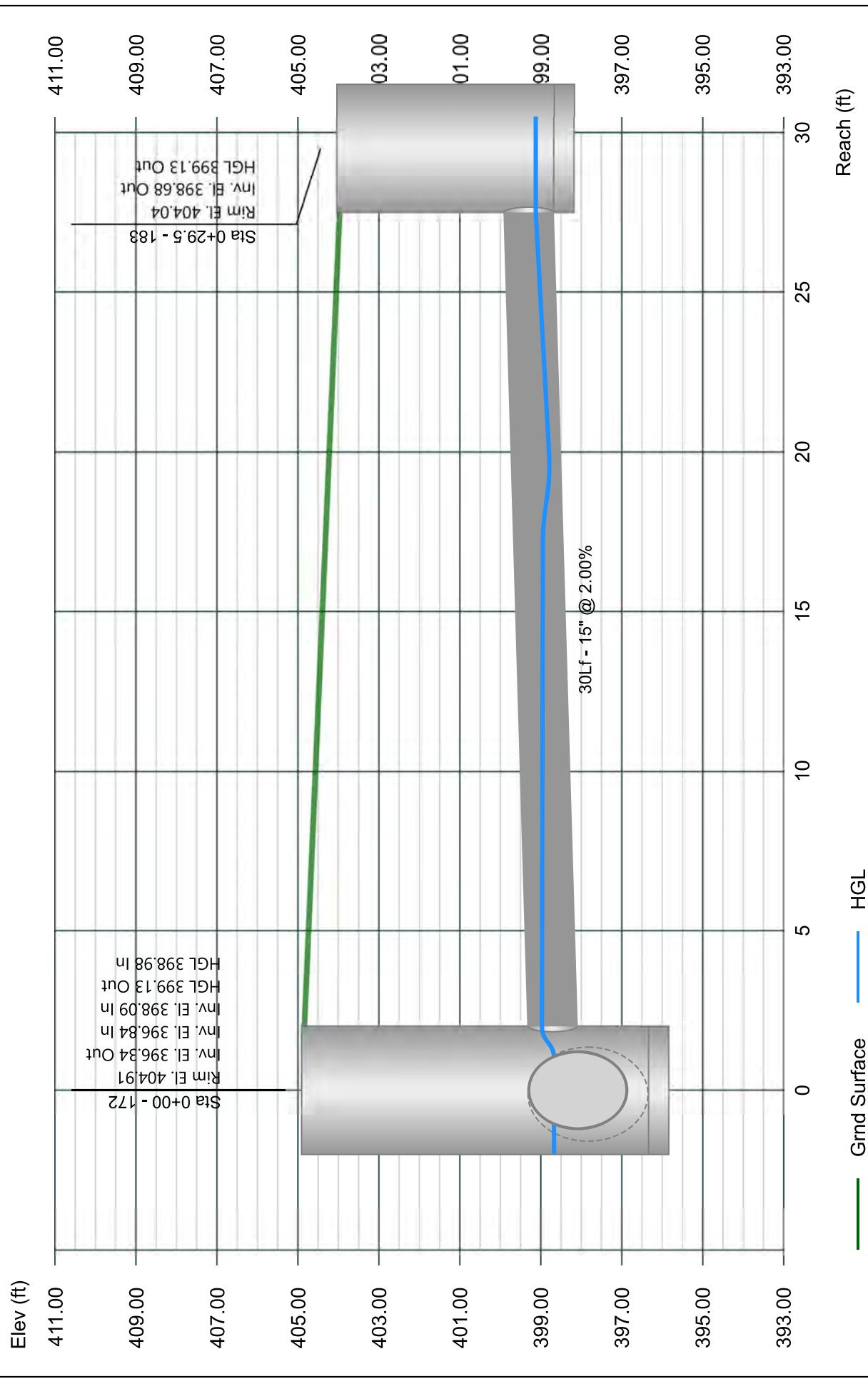


Line 88 - 183 TO 172

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

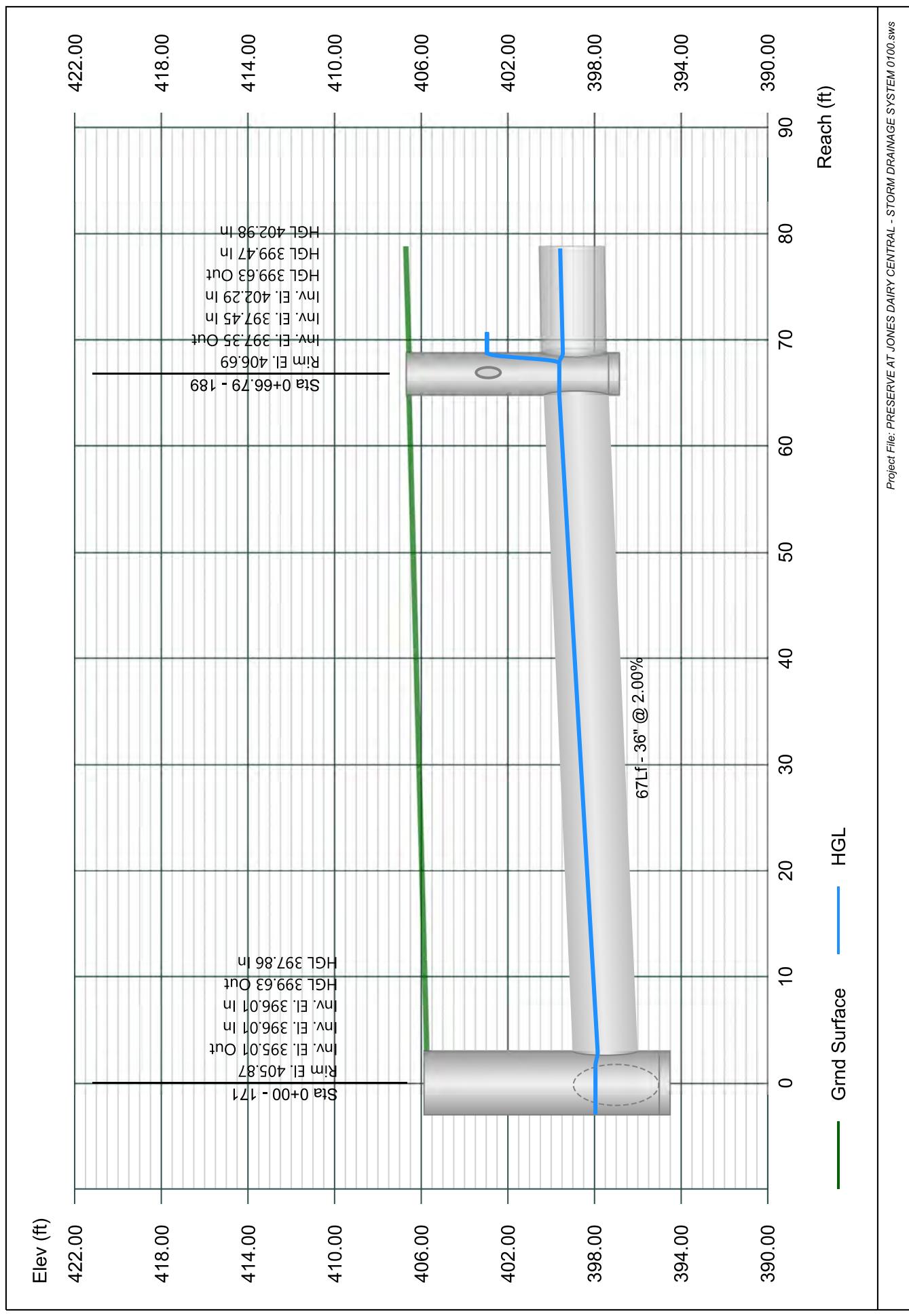


Line 89 - 189 TO 171

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

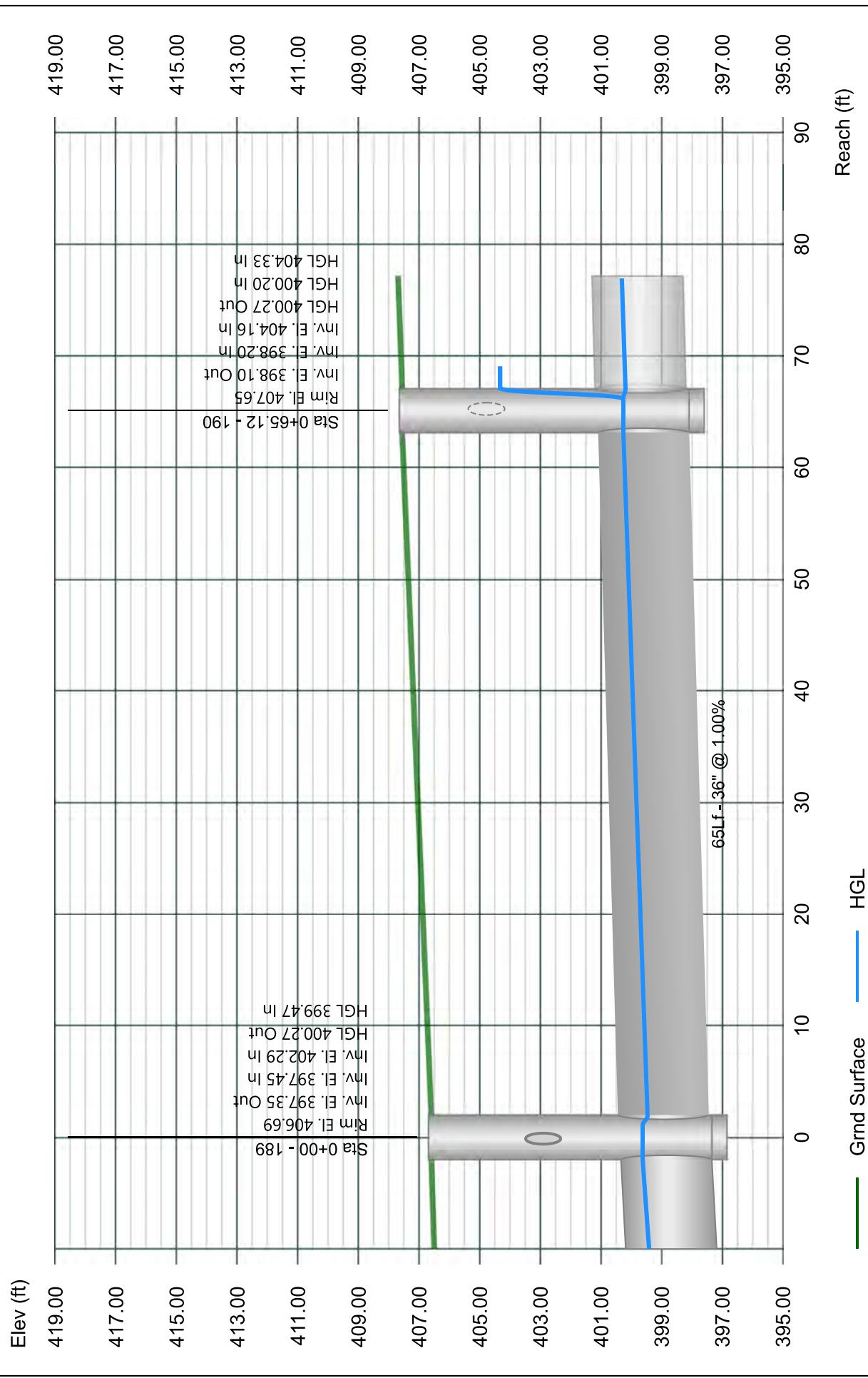


Line 90 - 190 TO 189

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

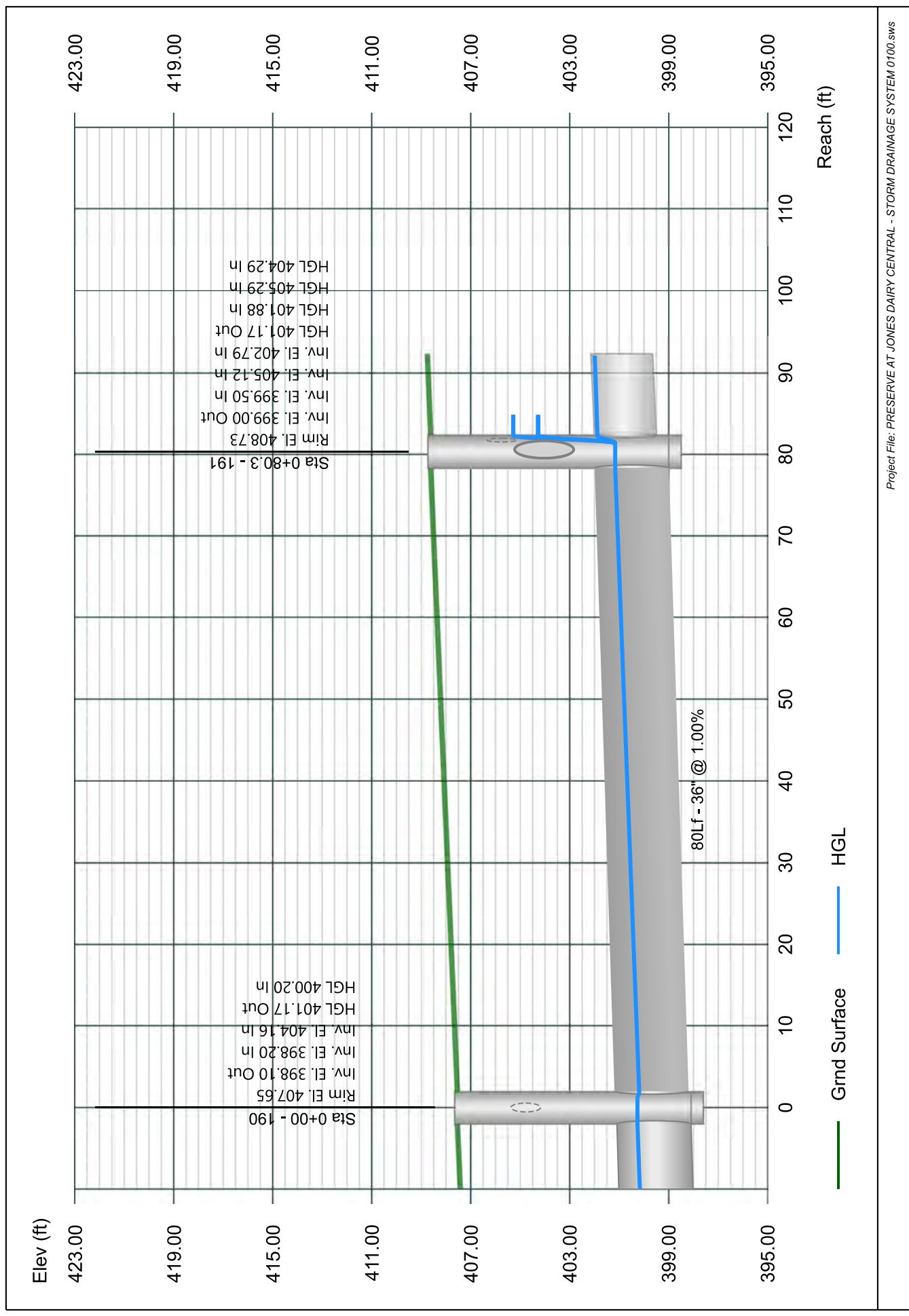


Line 91 - 191 TO 190

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

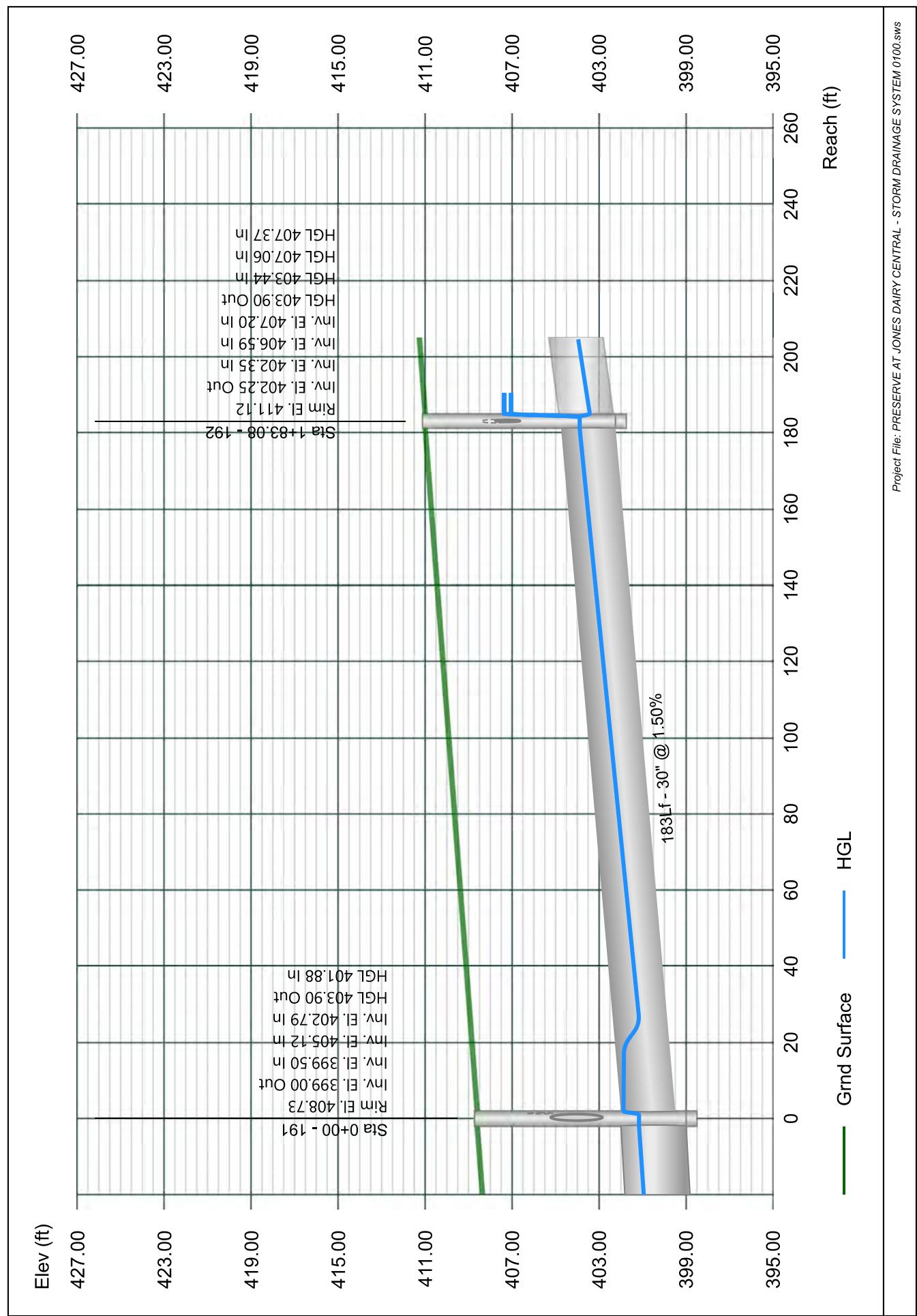


Line 92 - 192 TO 191

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

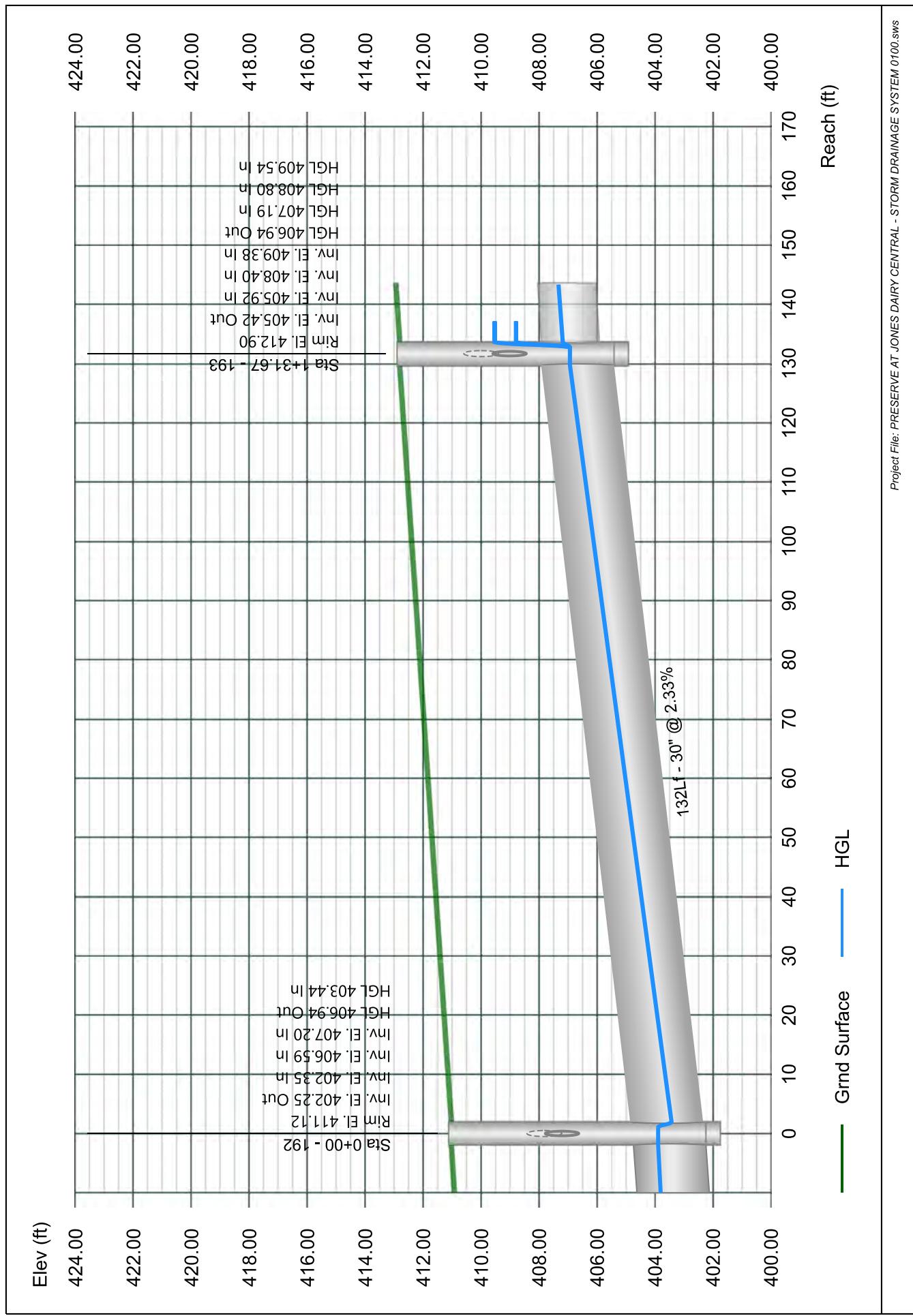


Line 93 - 193 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

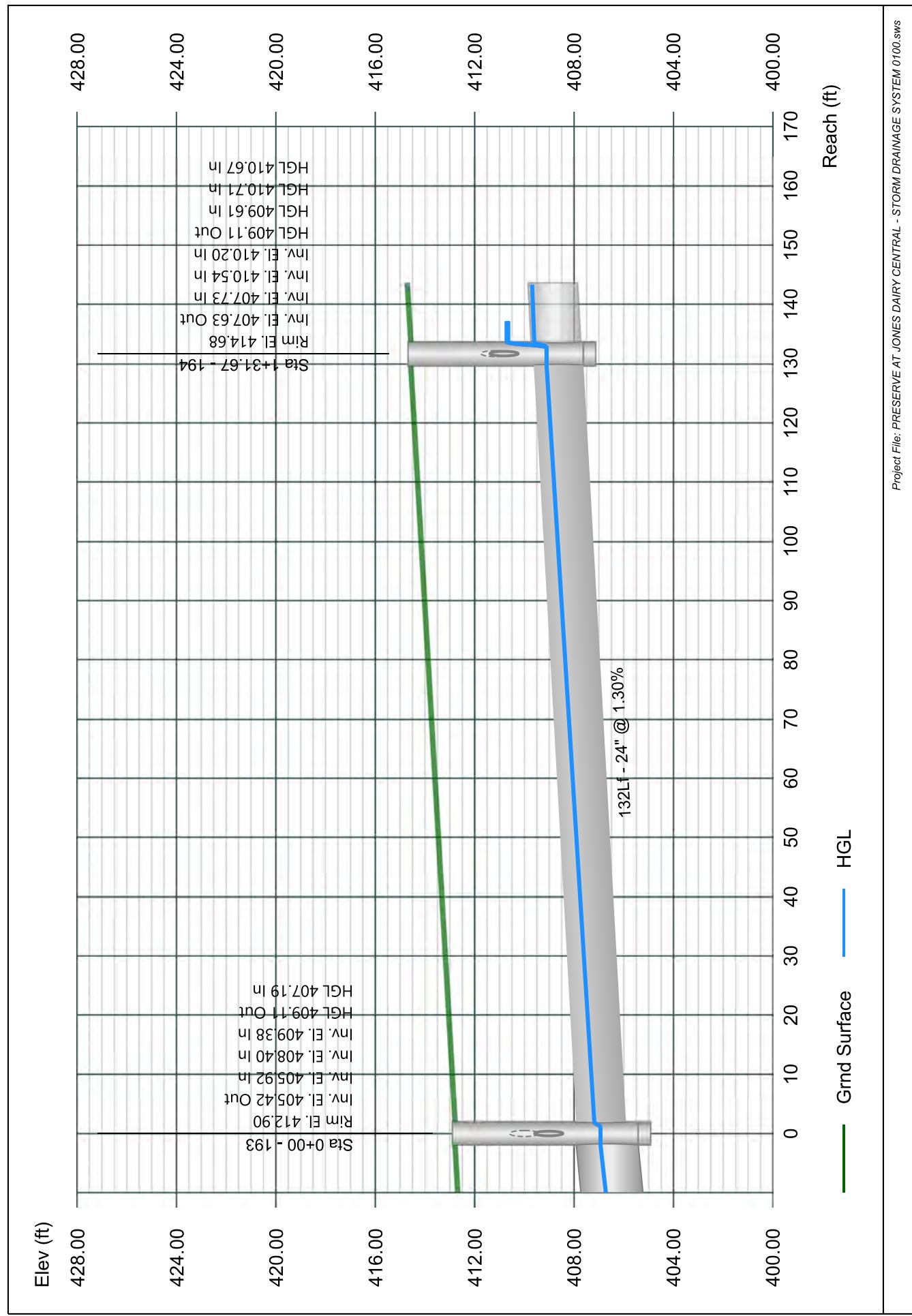


Line 94 - 194 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

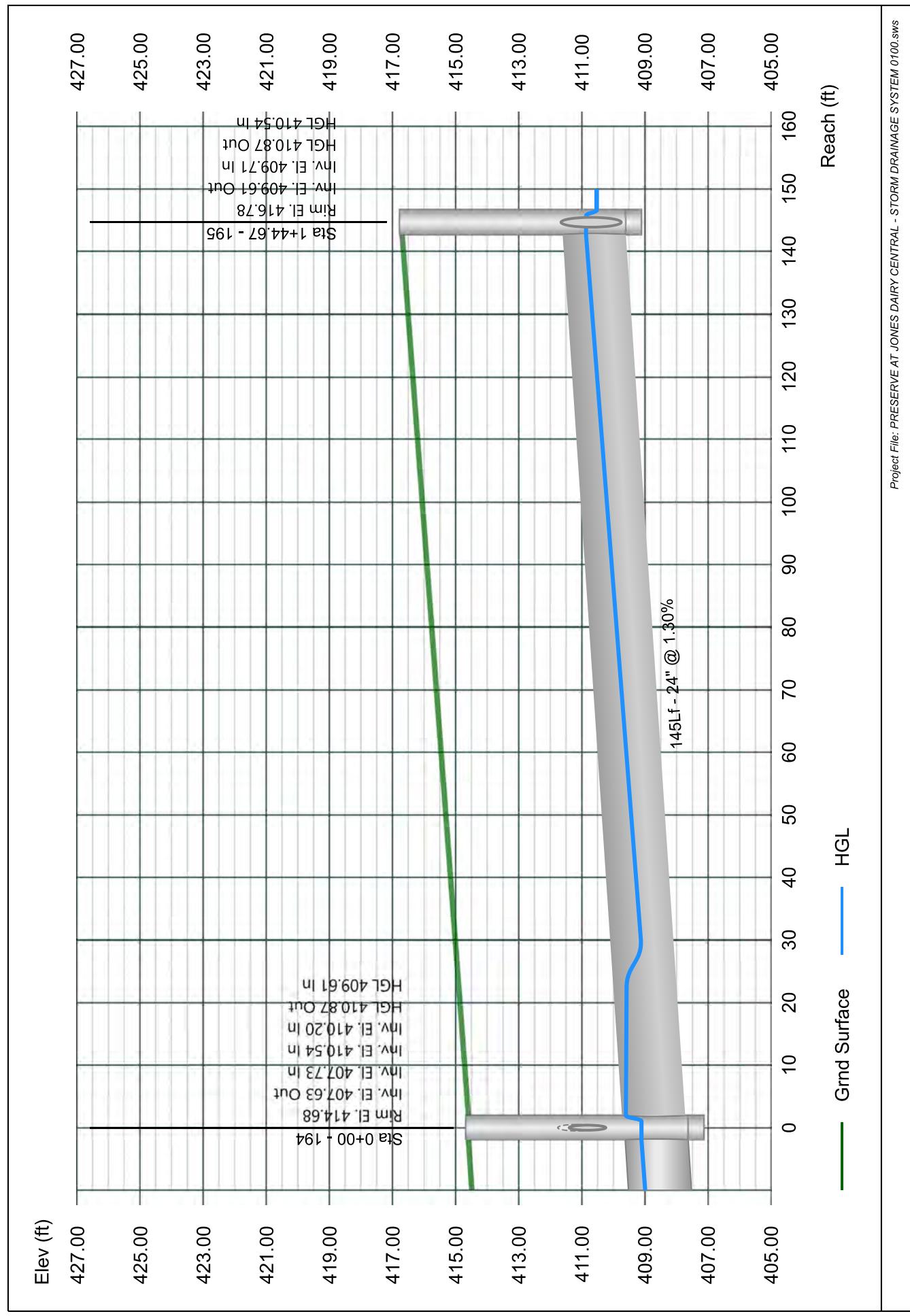
01-19-2024



Line 95 - 195 TO 194

Project Name: Enter Project Name...

01-19-2024

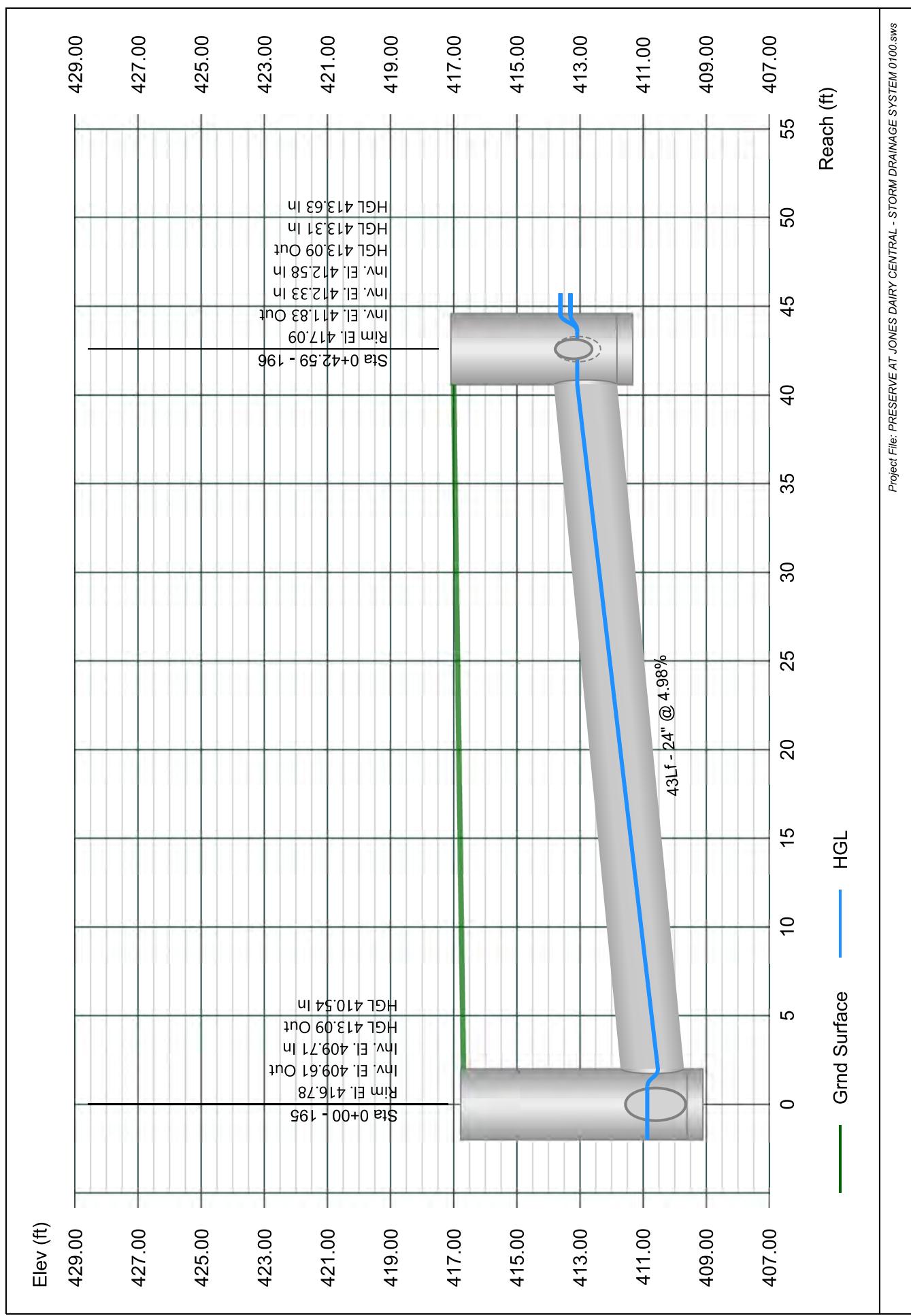


Line 96 - 196 TO 195

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

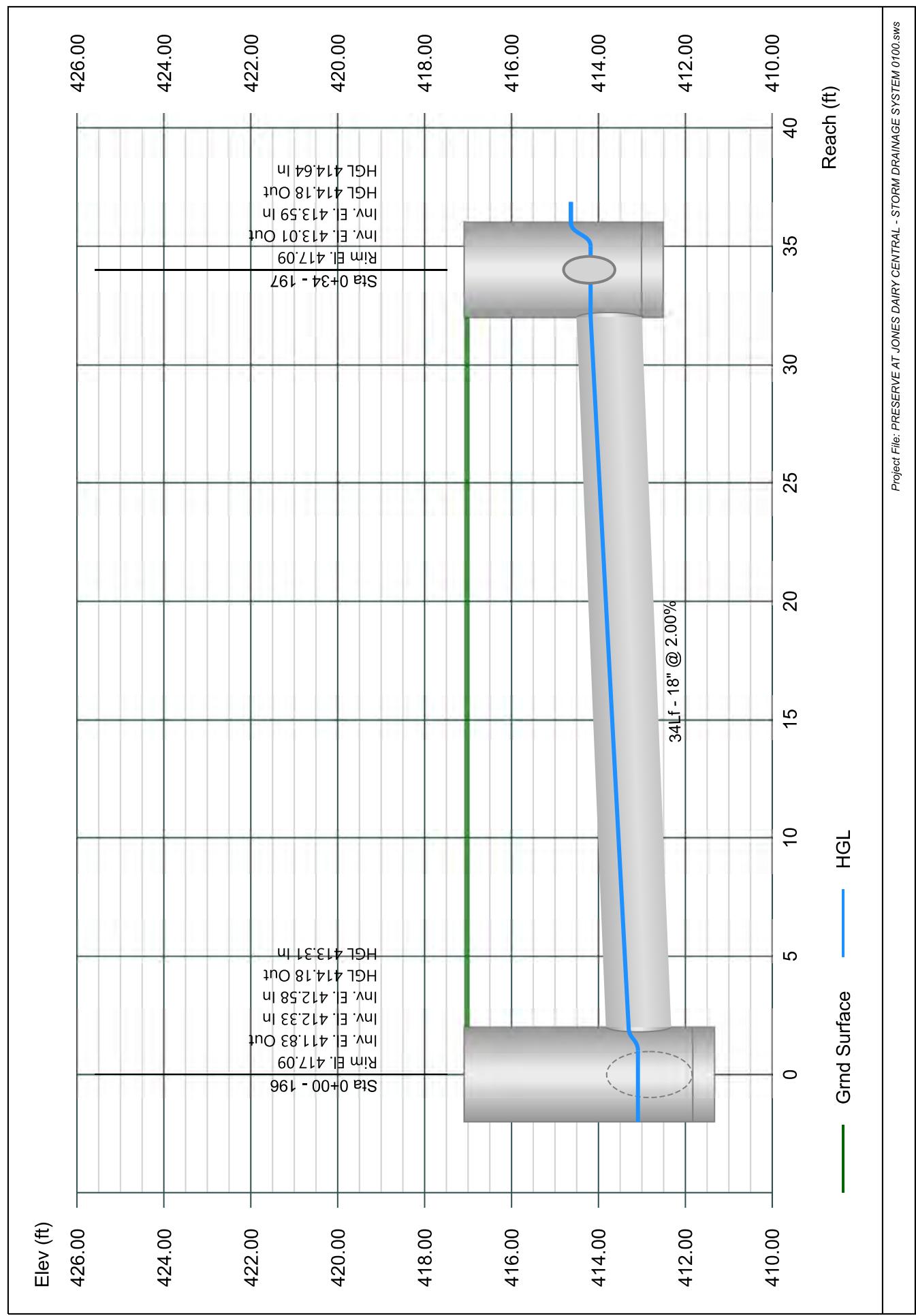


Line 97 - 197 TO 196

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

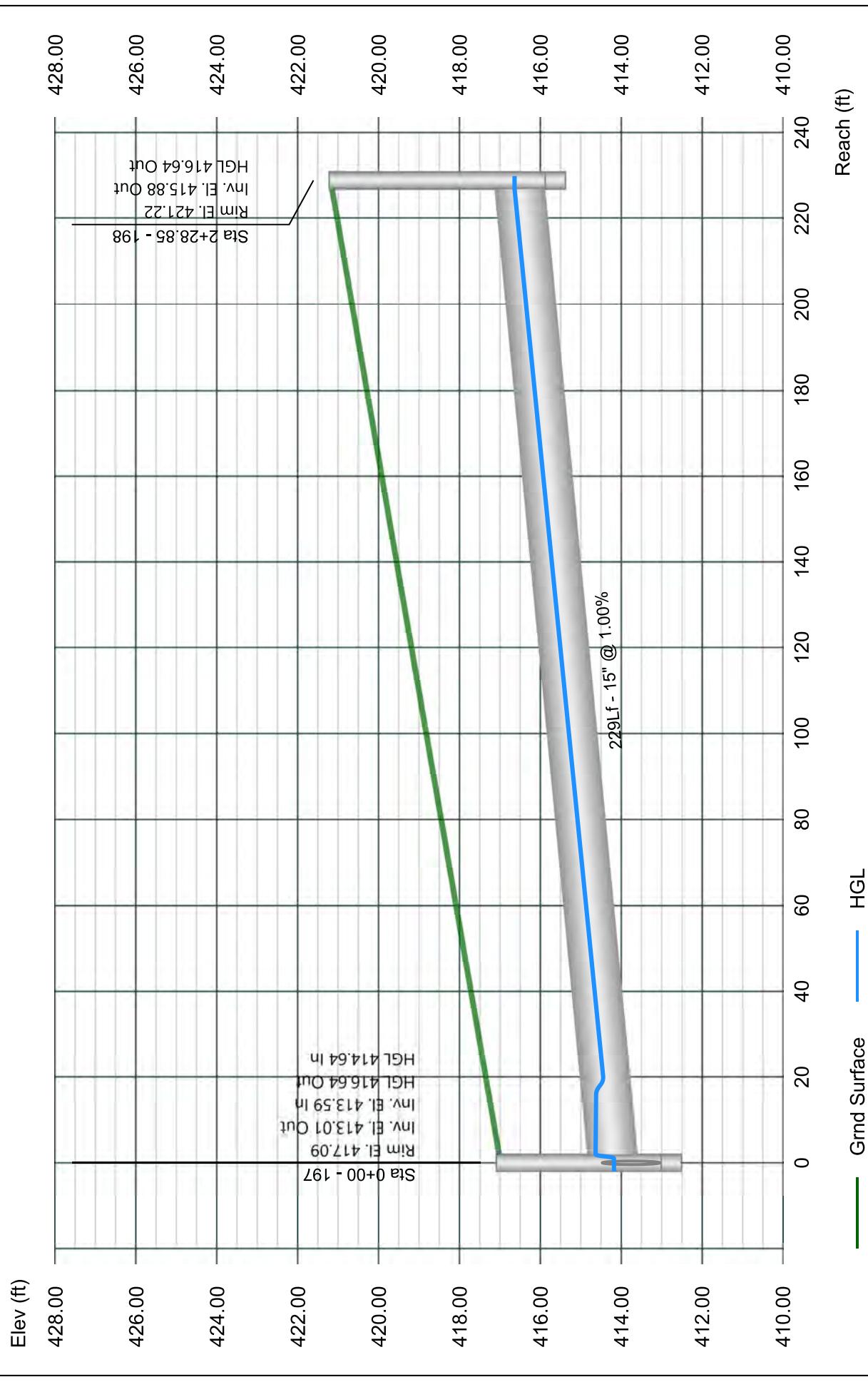


Line 98 - 198 TO 197

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



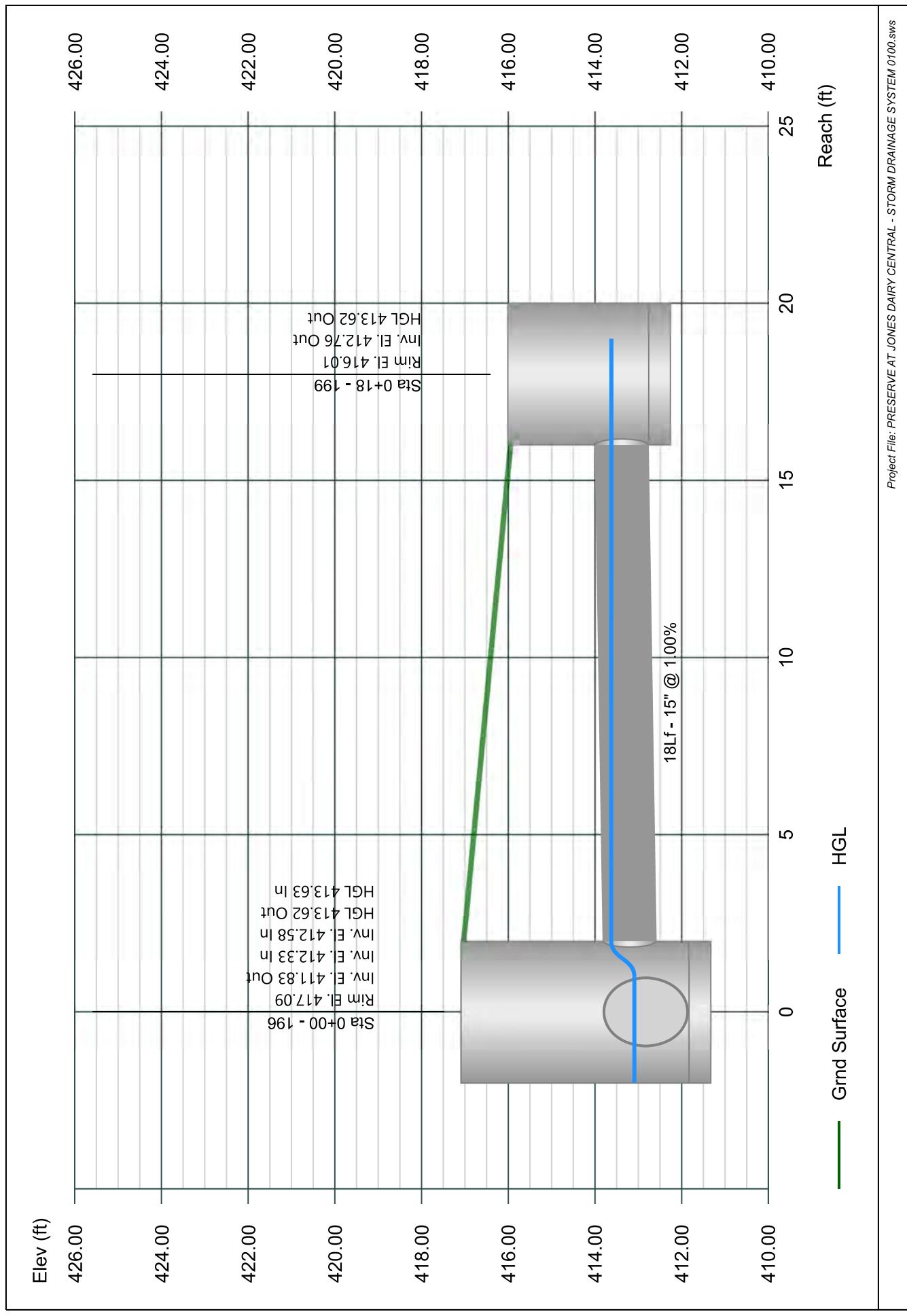
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 99 - 199 TO 196

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

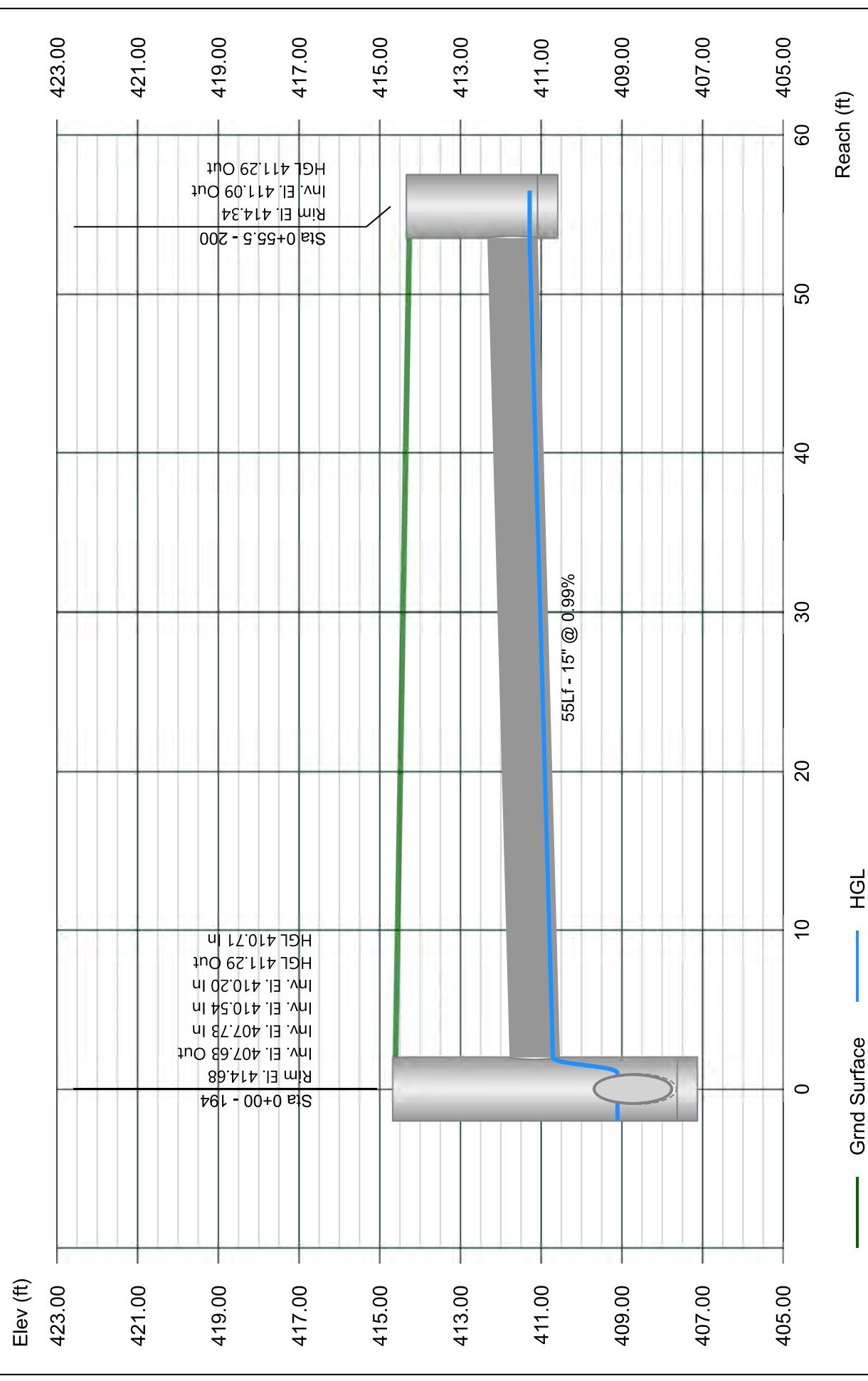


Line 100 - 200 TO 194

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

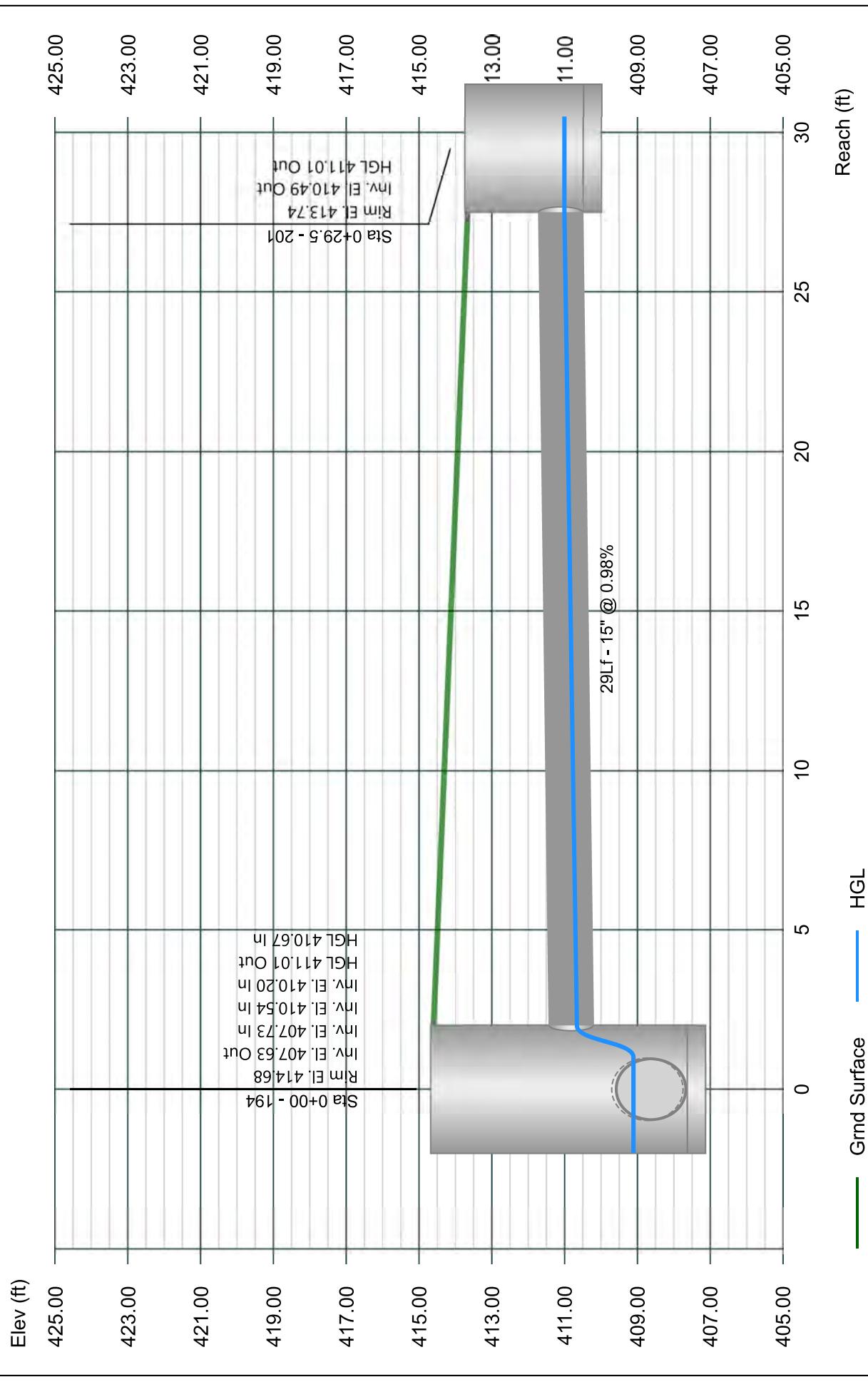


Line 101 - 201 TO 194

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

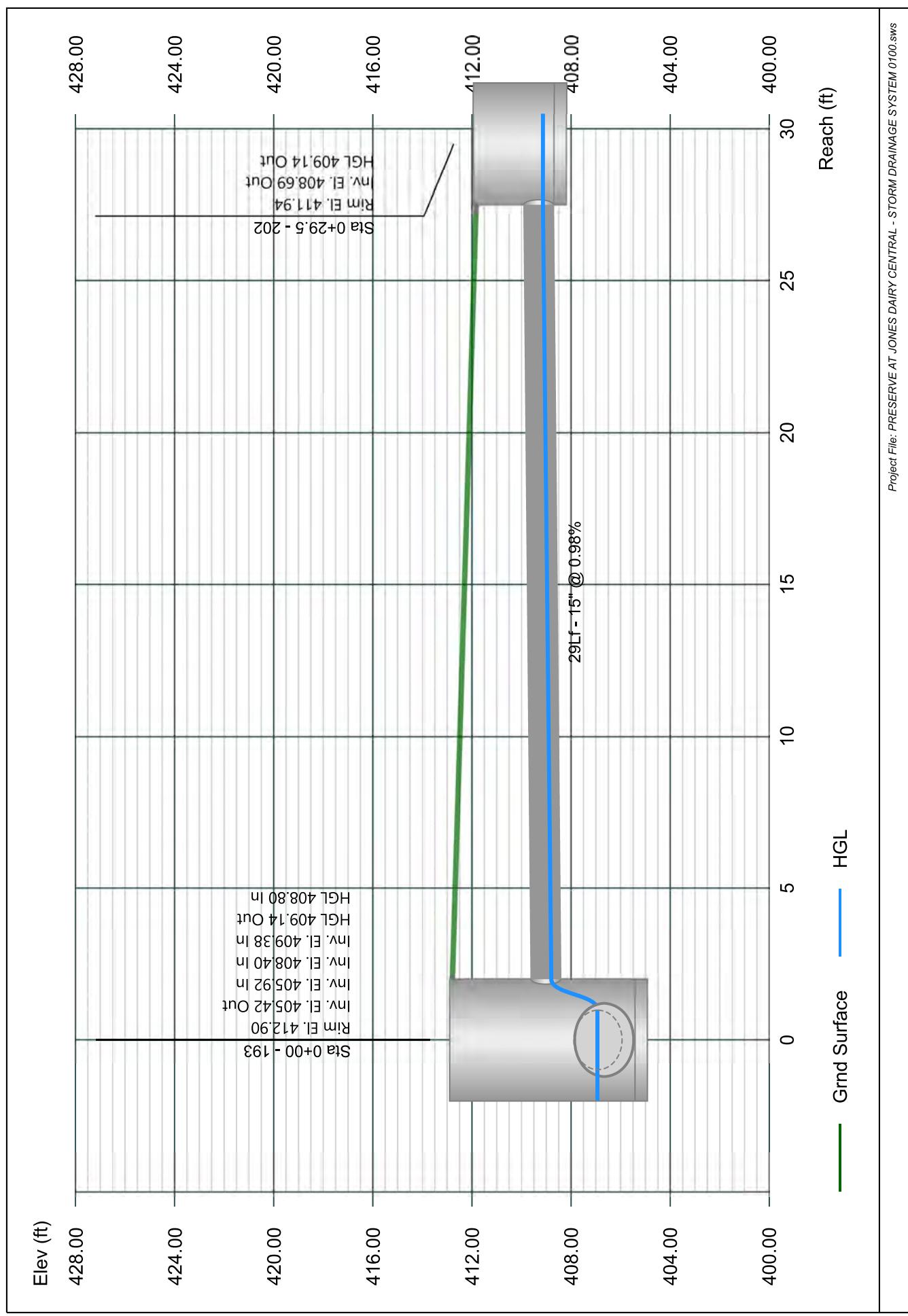


Line 102 - 202 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

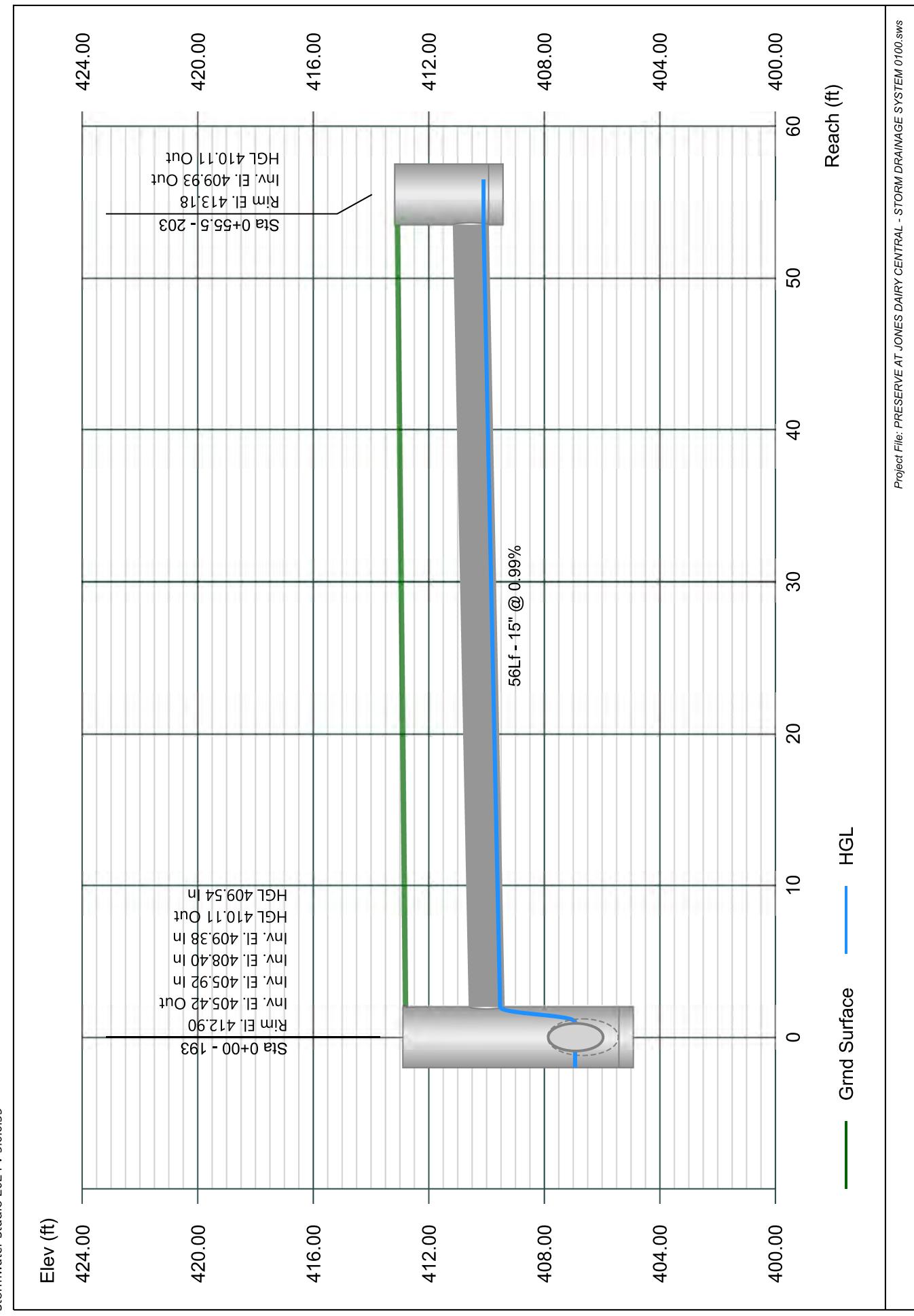


Line 103 - 203 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

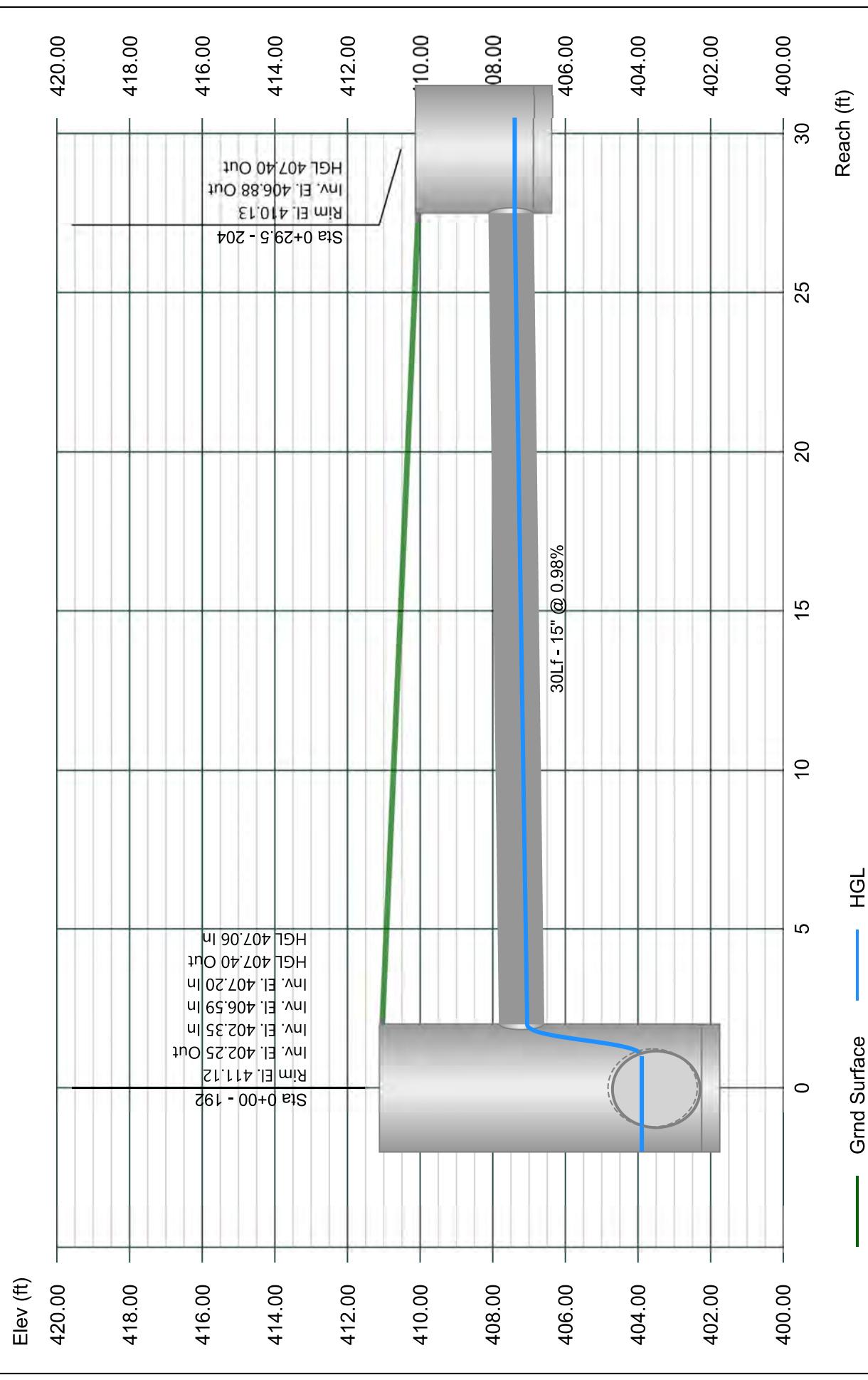


Line 104 - 204 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

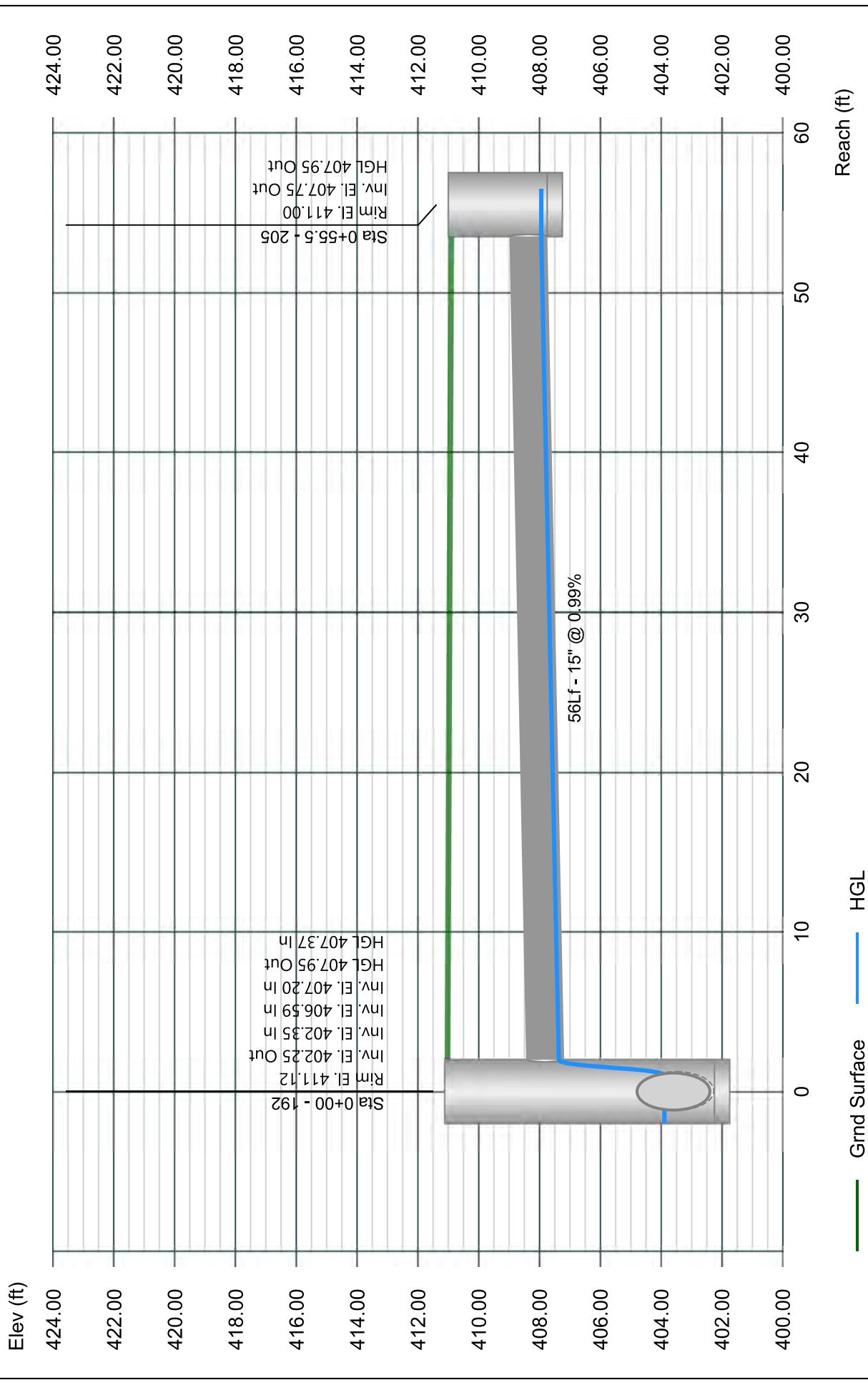


Line 105 - 205 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



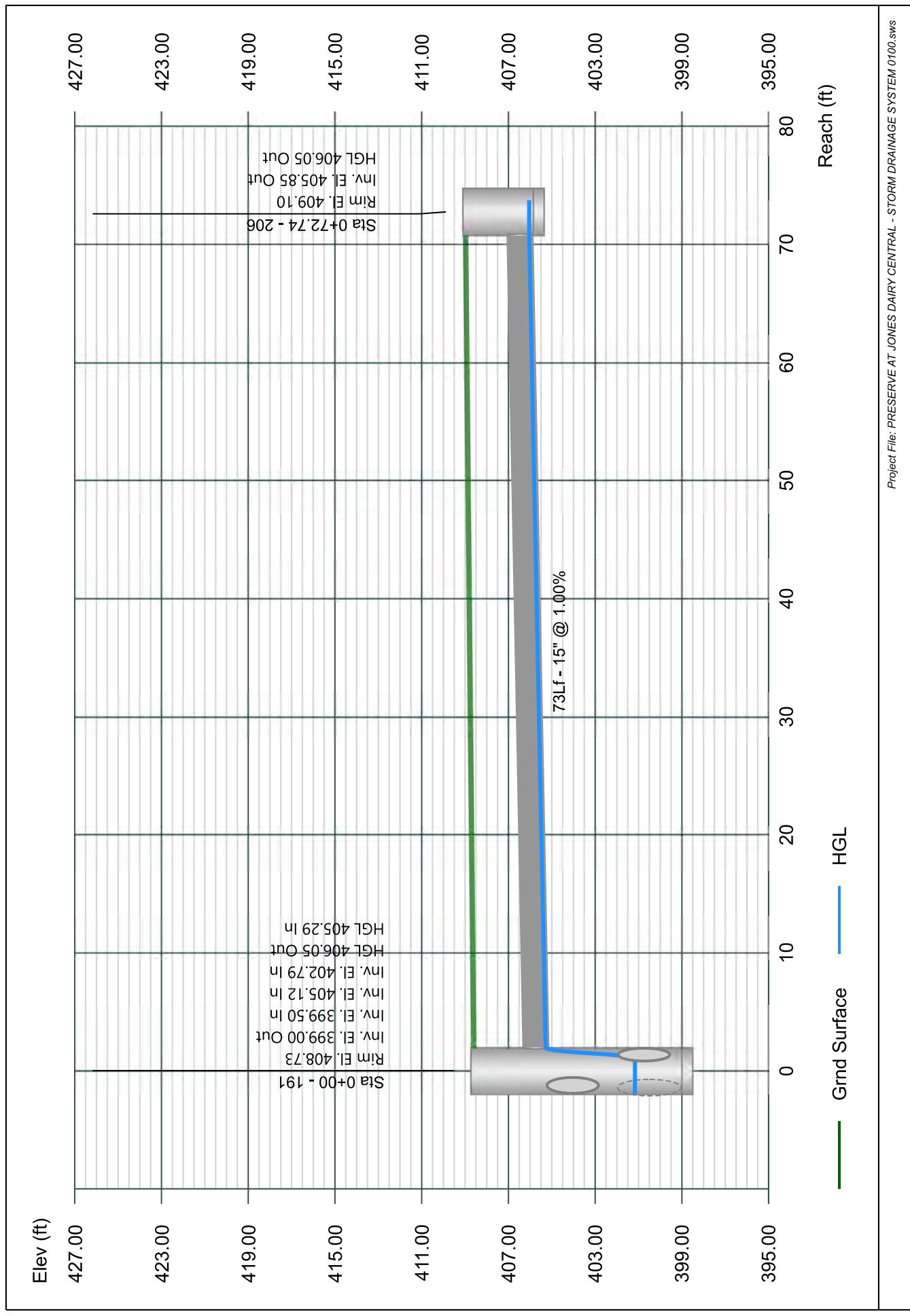
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 106 - 206 TO 191

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

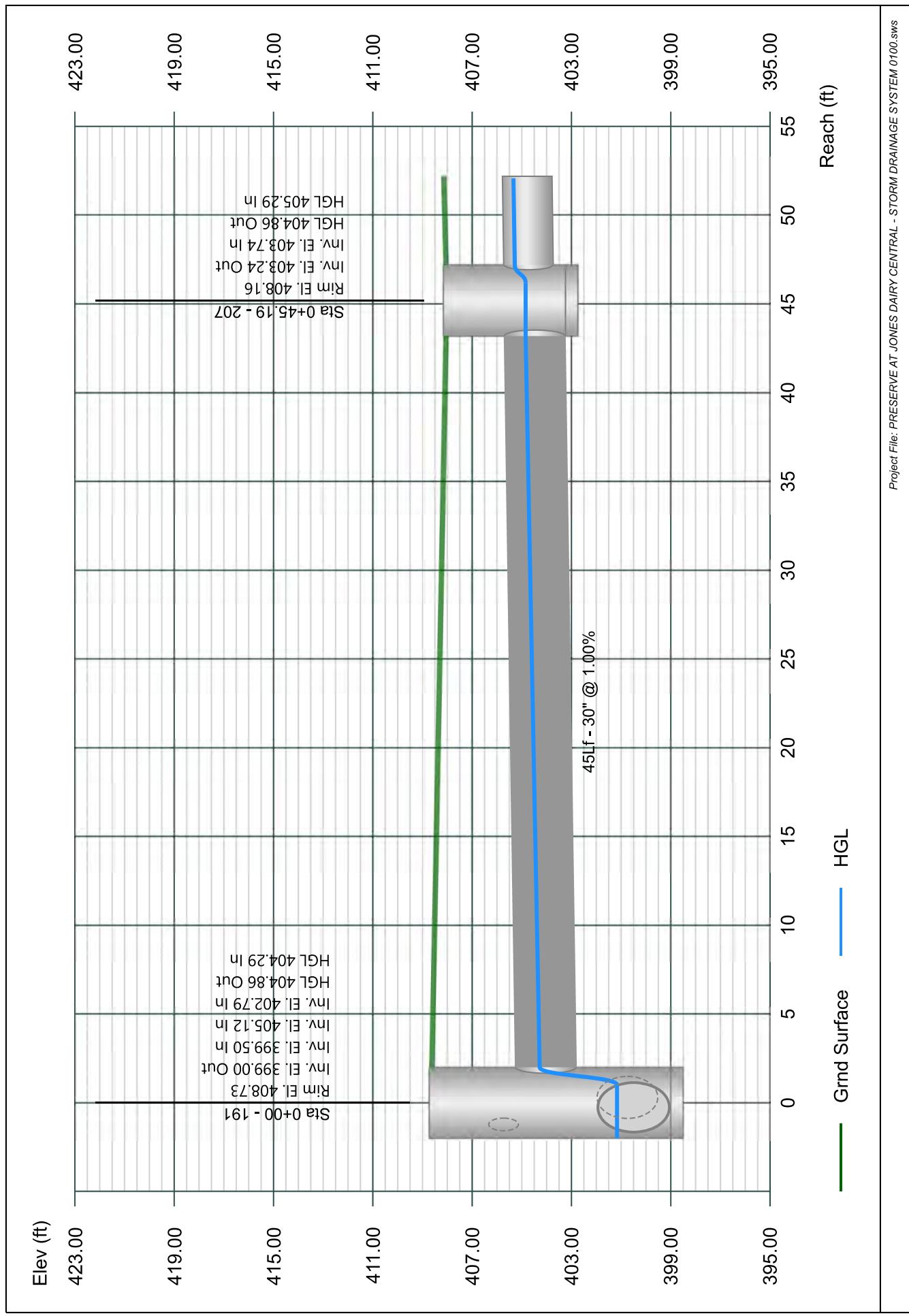


Line 107 - 207 TO 191

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

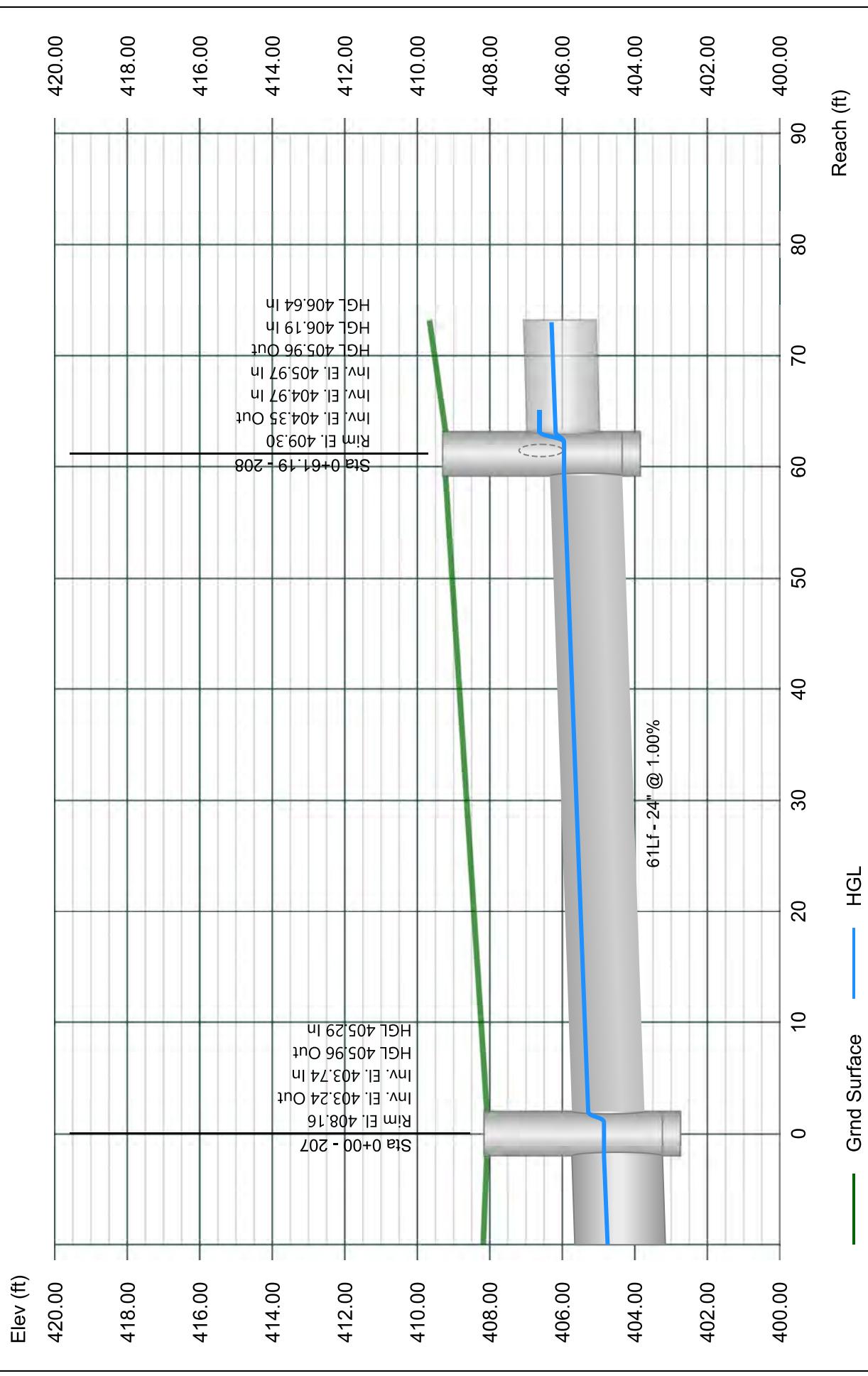


Line 108 - 208 TO 207

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



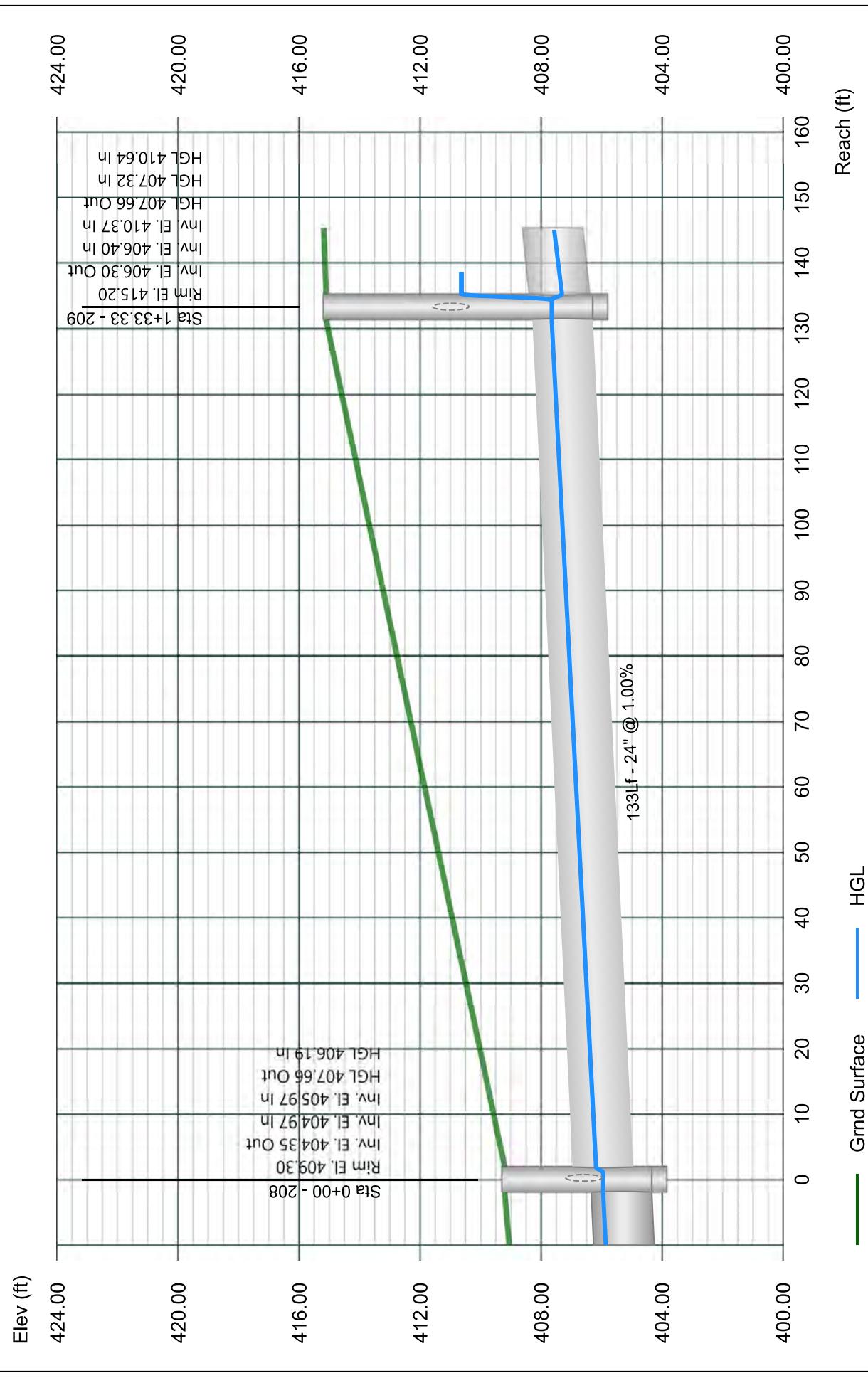
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 109 - 209 TO 208

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

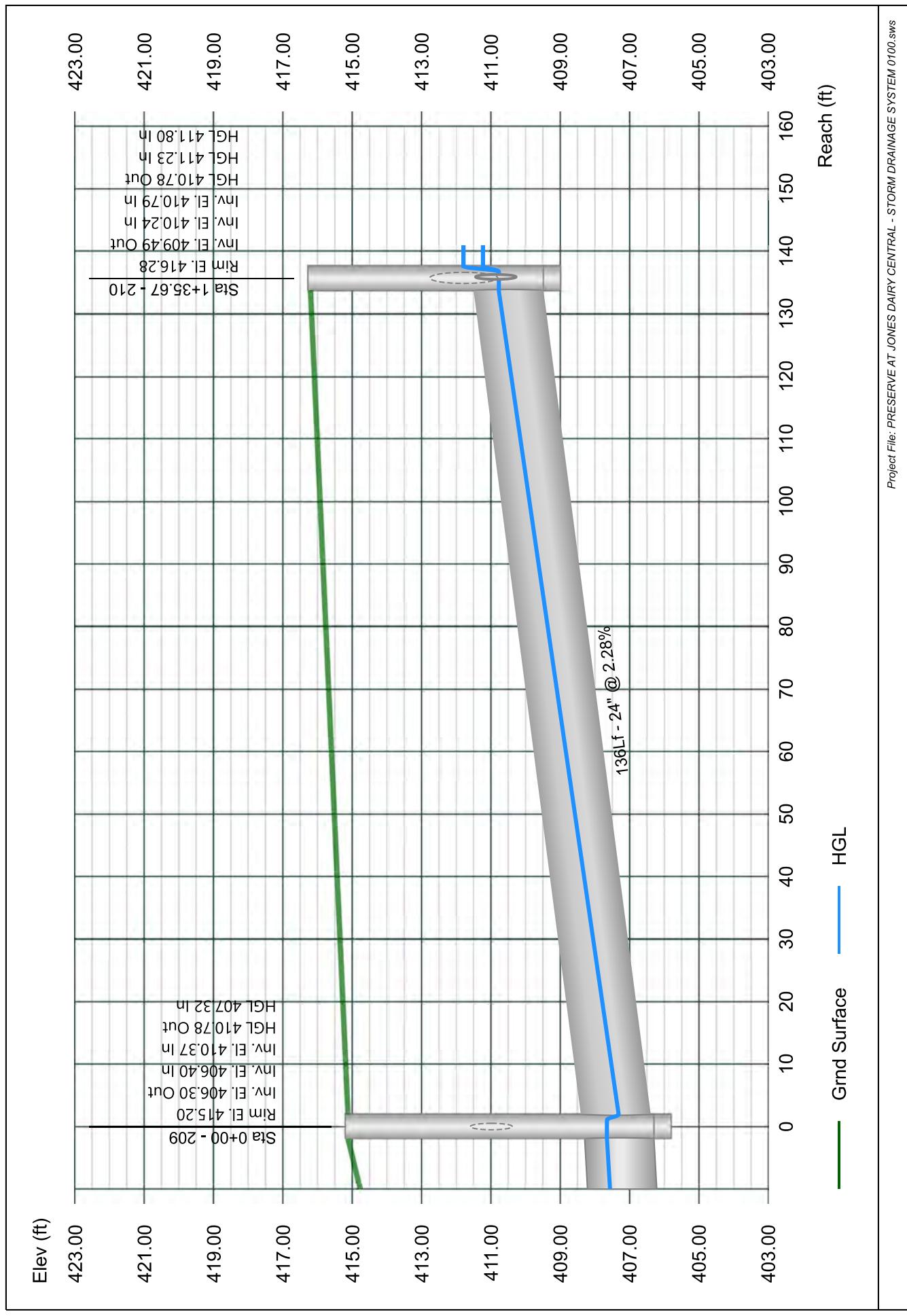


Line 110 - 210 TO 209

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

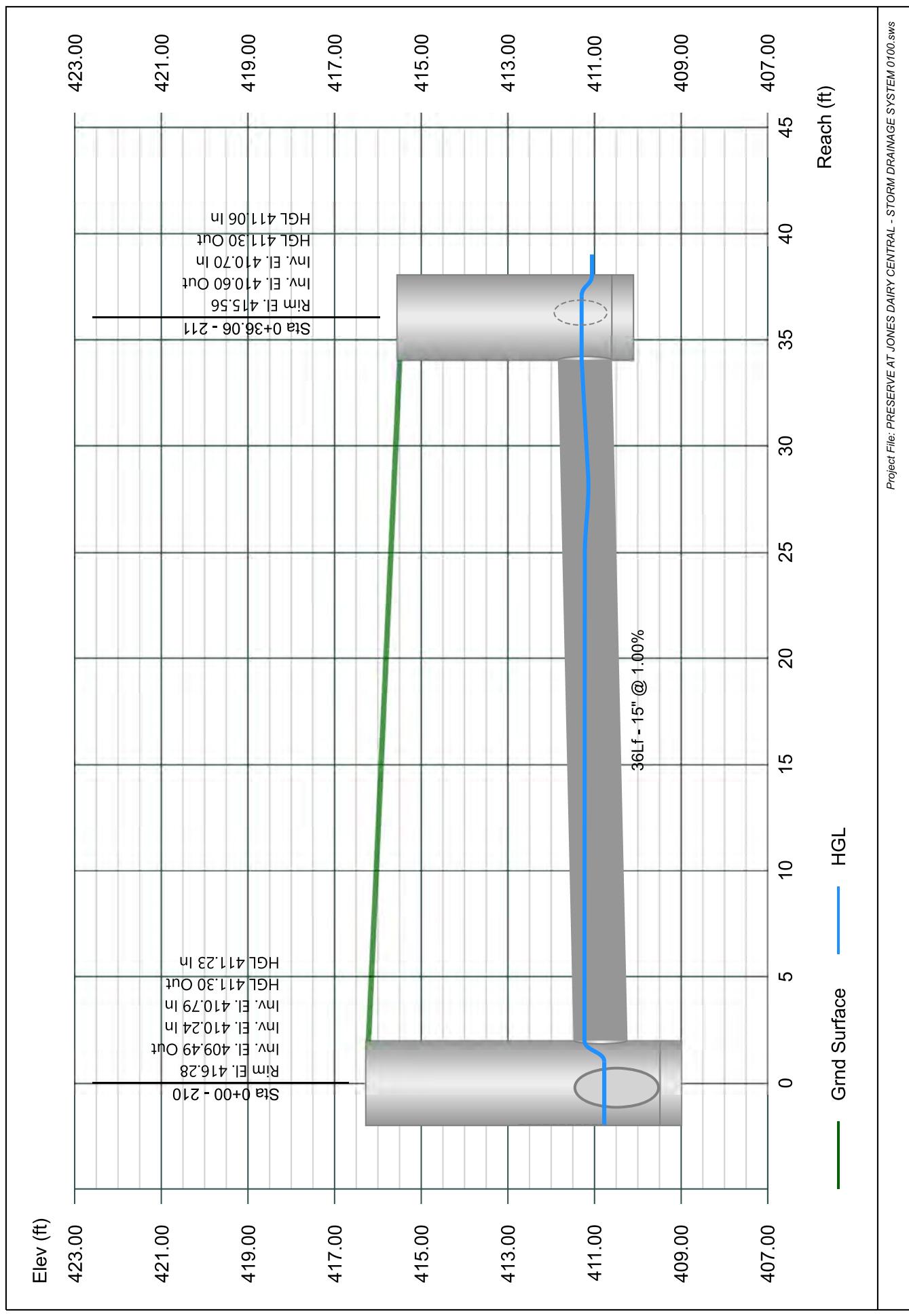


Line 111 - 211 TO 210

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

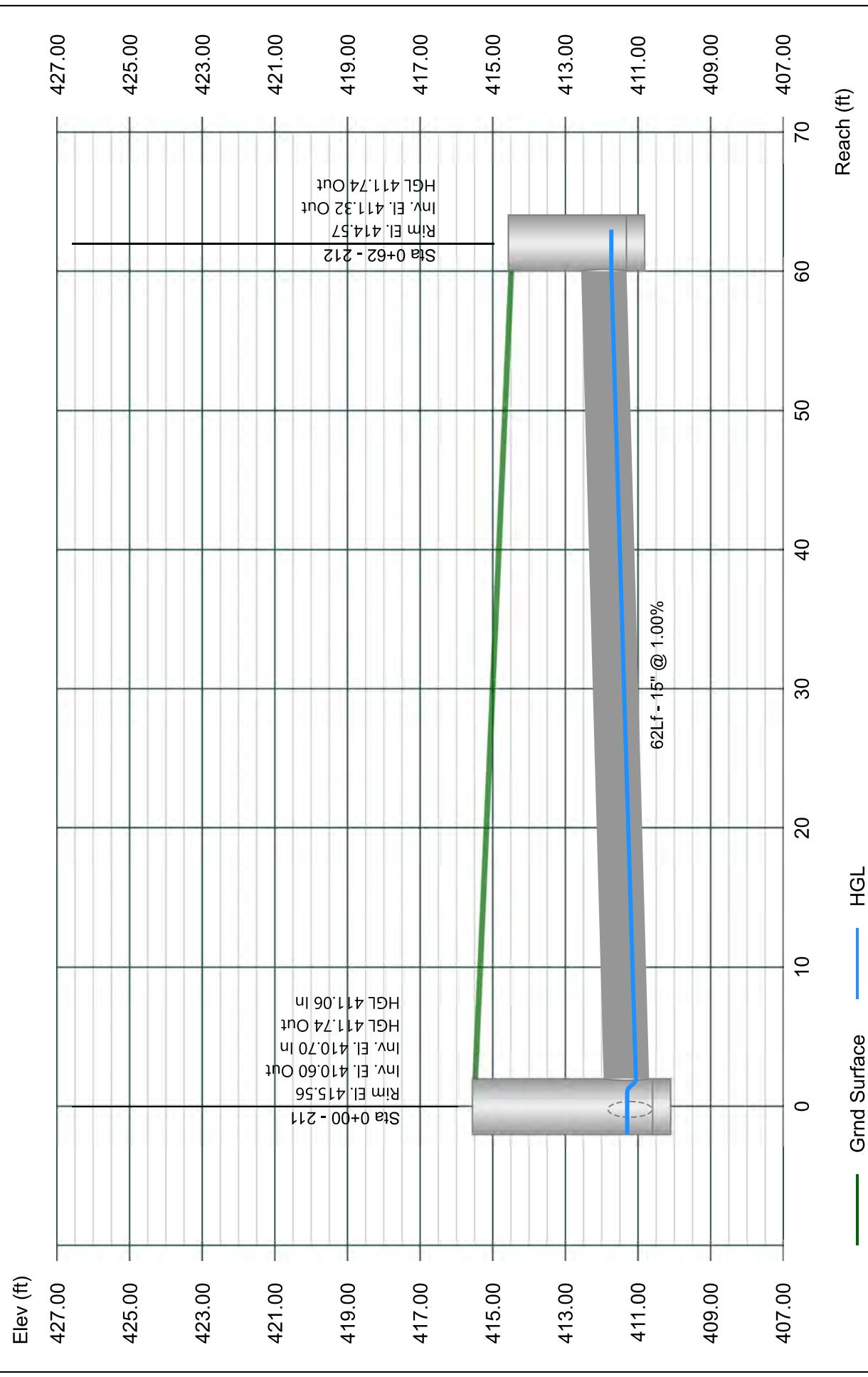


Line 112 - 212 TO 211

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

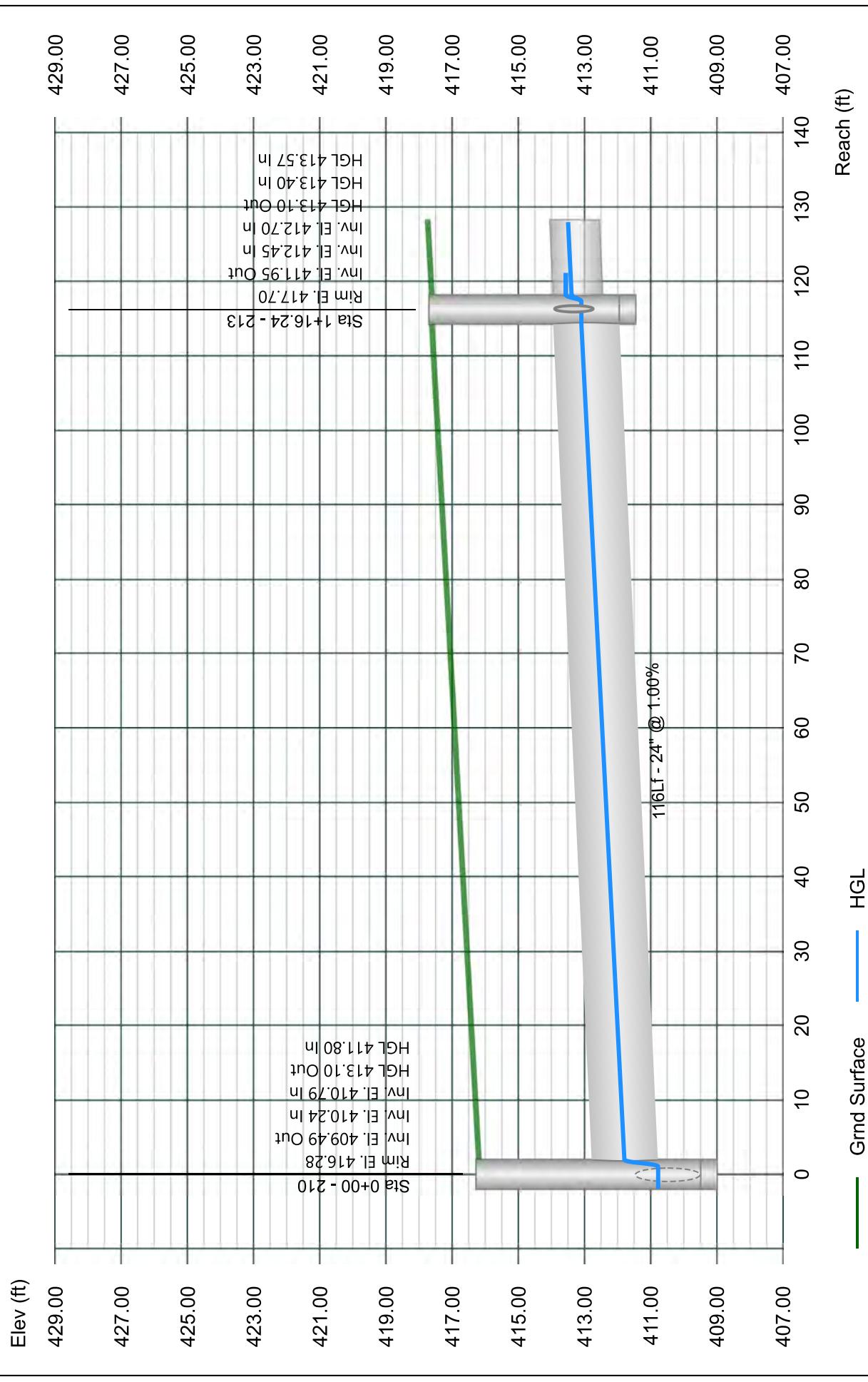


Line 113 - 213 TO 210

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

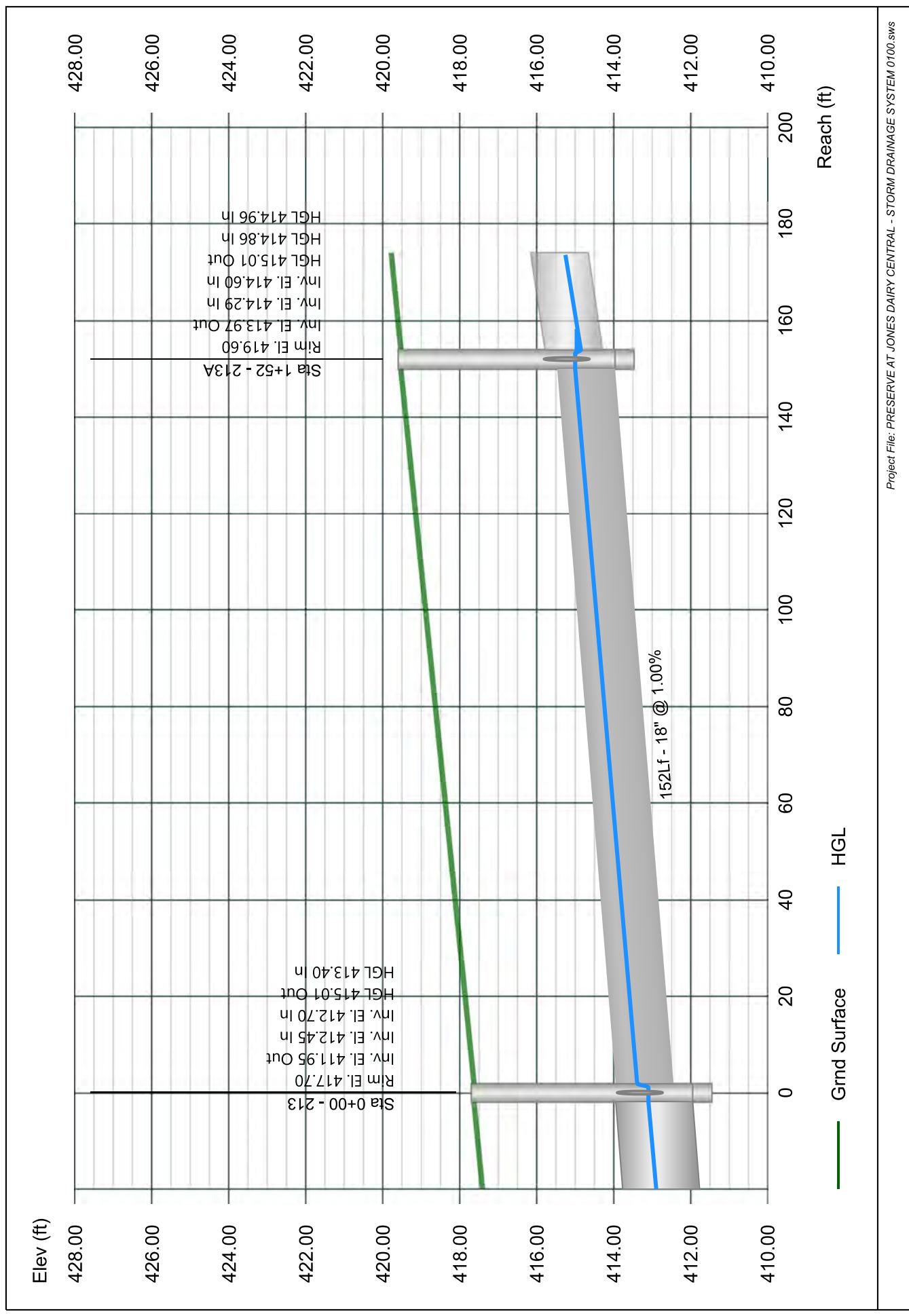


Line 114 - 213A TO 213

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

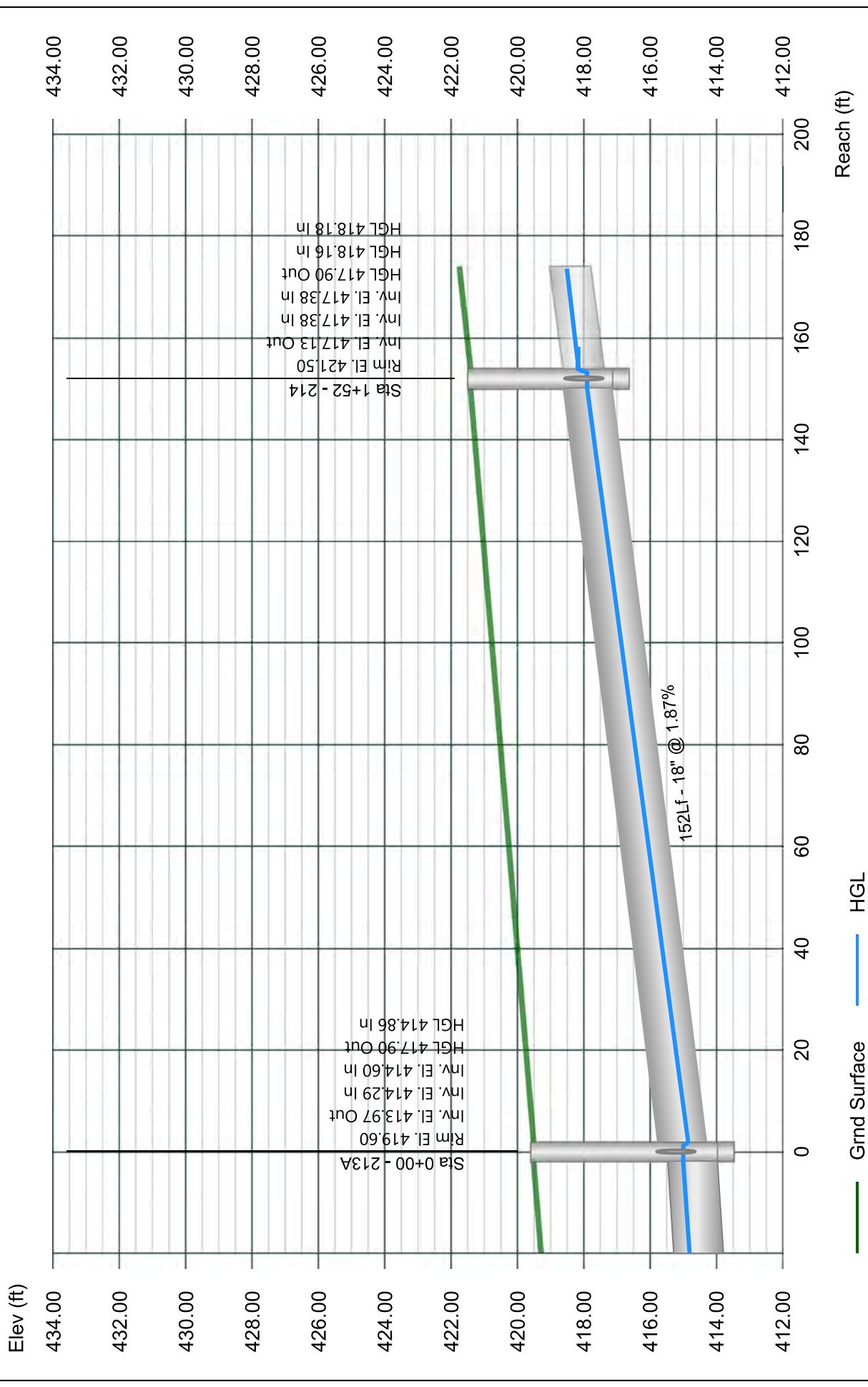


Line 115 - 214 TO 213A

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

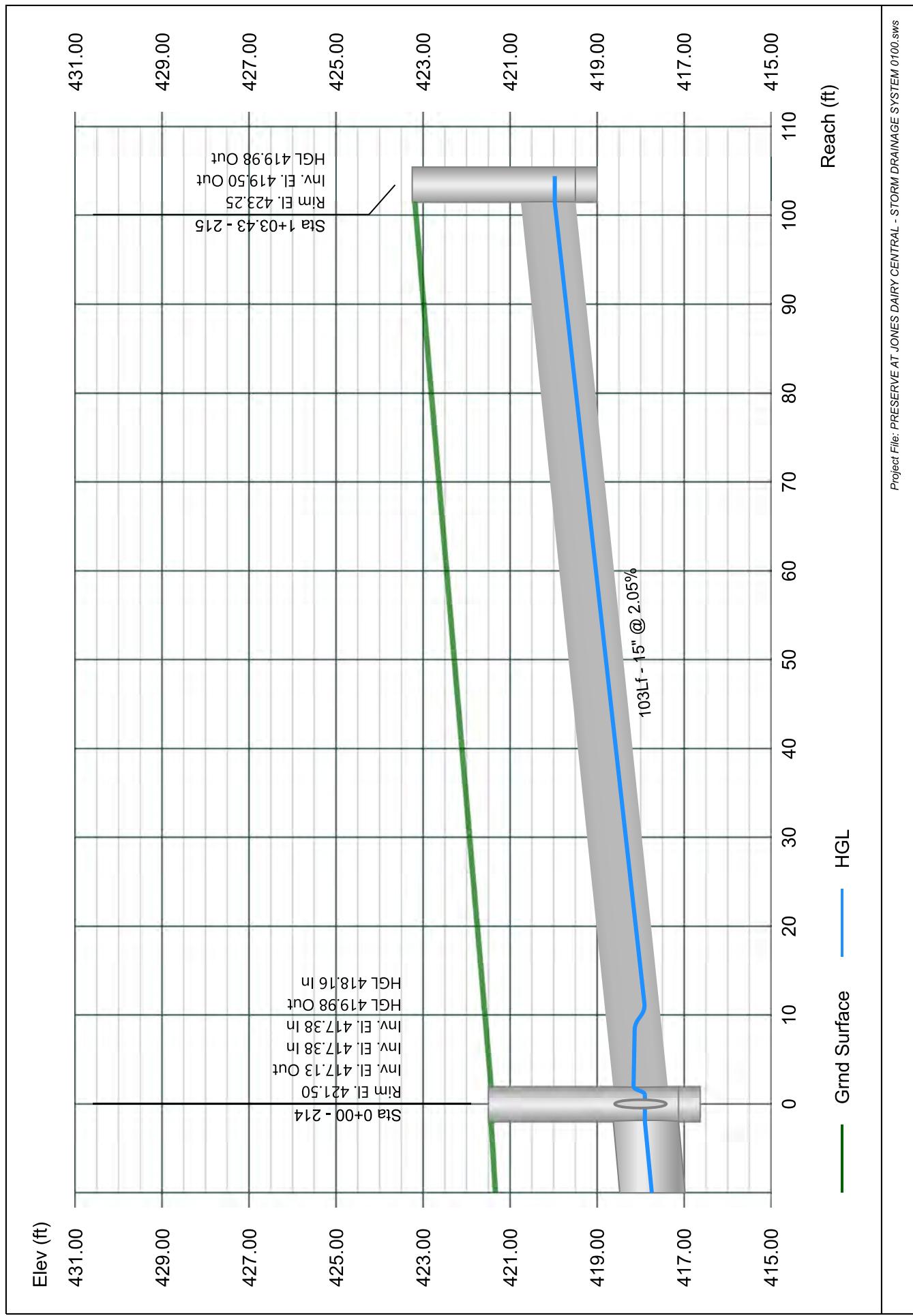


Line 116 - 215 TO 214

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

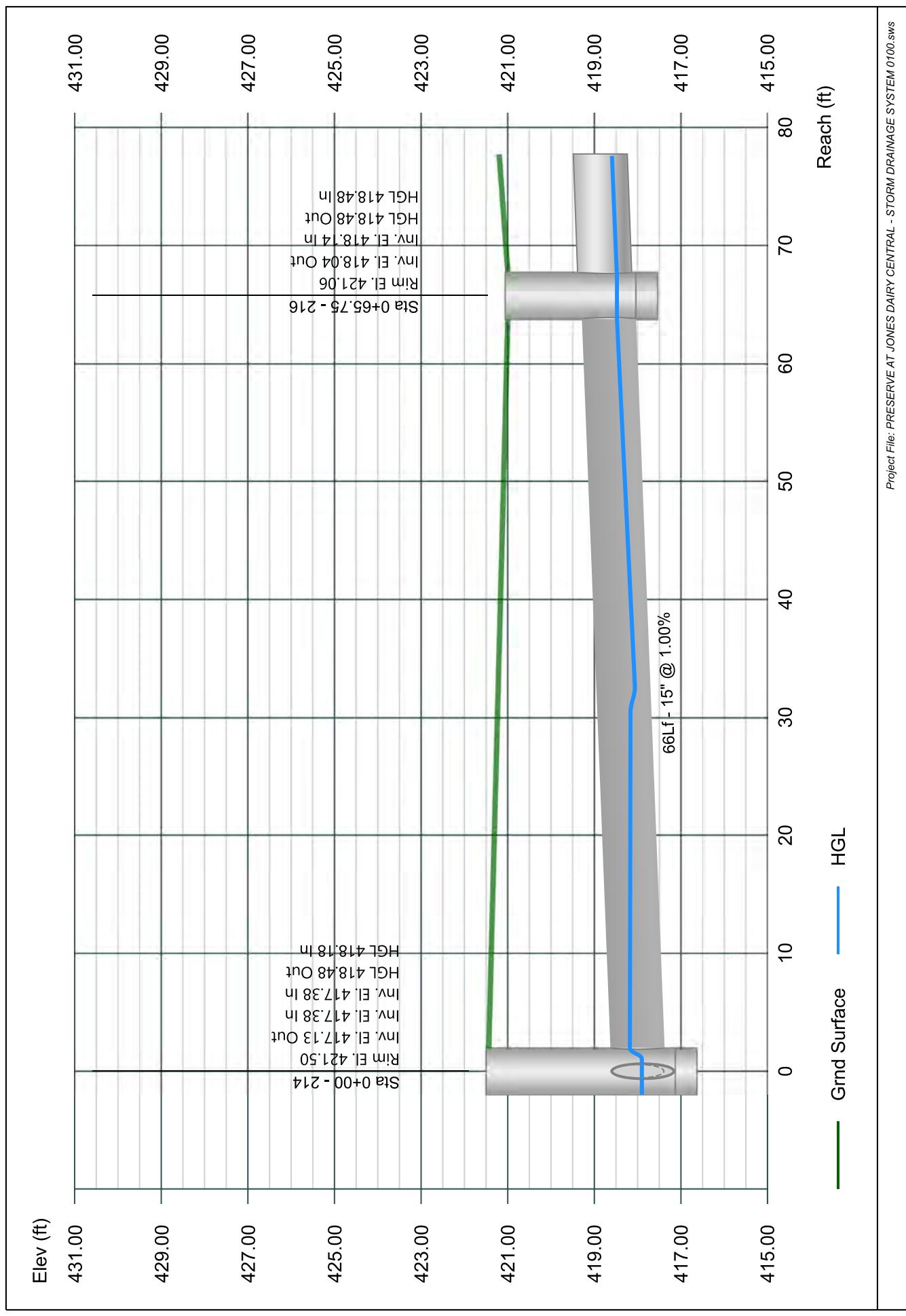


Line 117 - 216 TO 214

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

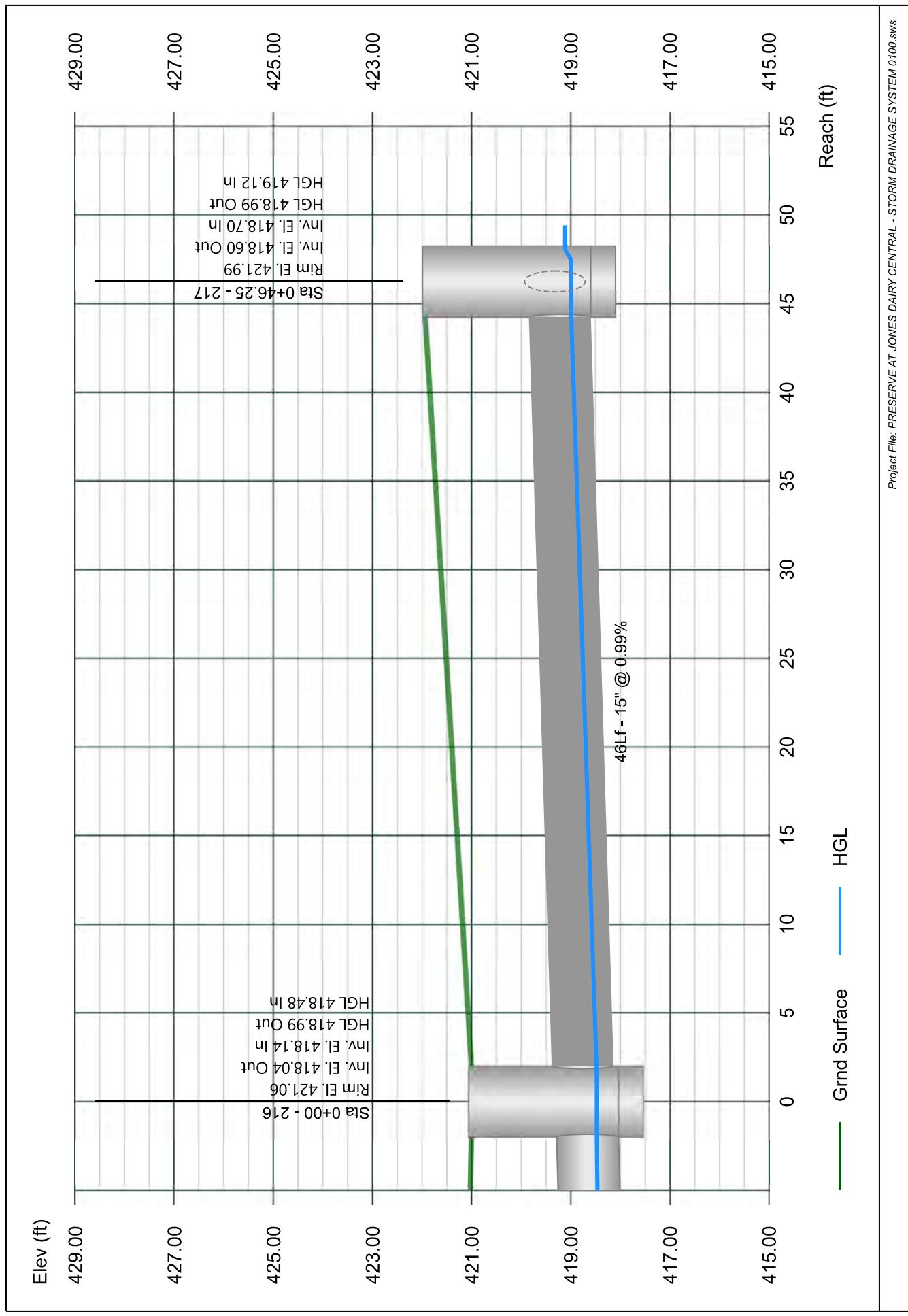


Line 118 - 217 TO 216

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

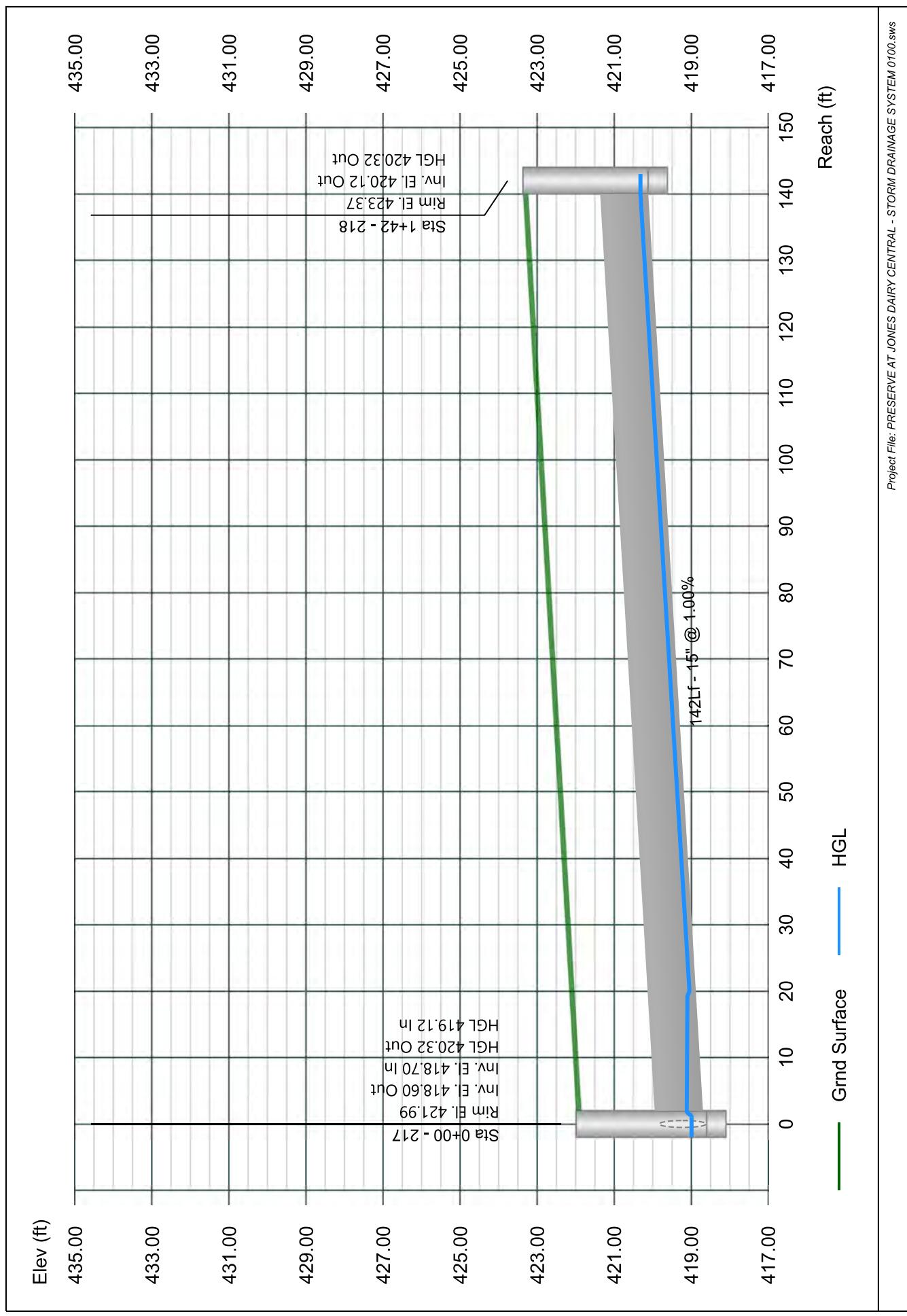


Line 119 - 218 TO 217

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

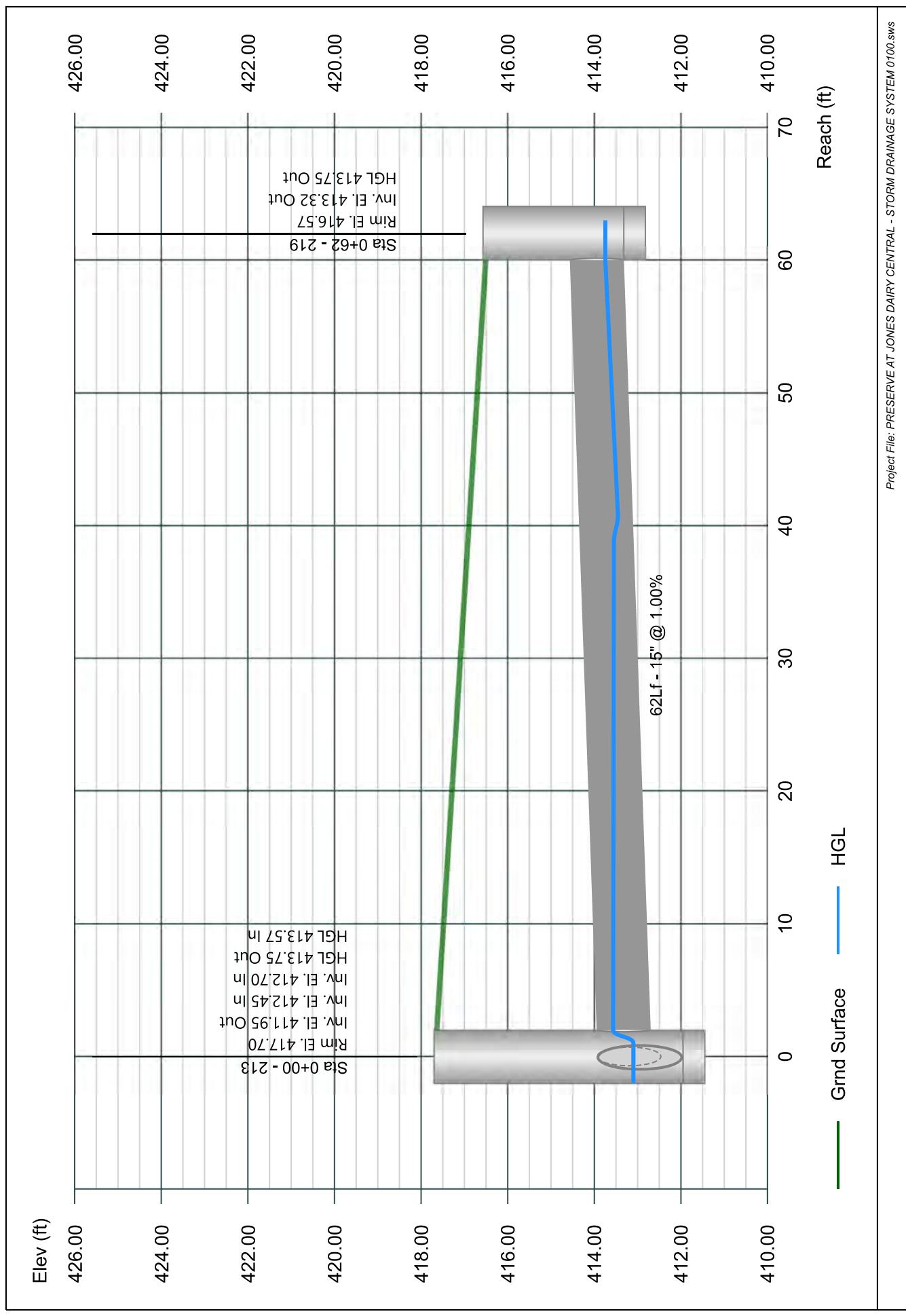


Line 120 - 219 TO 213

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

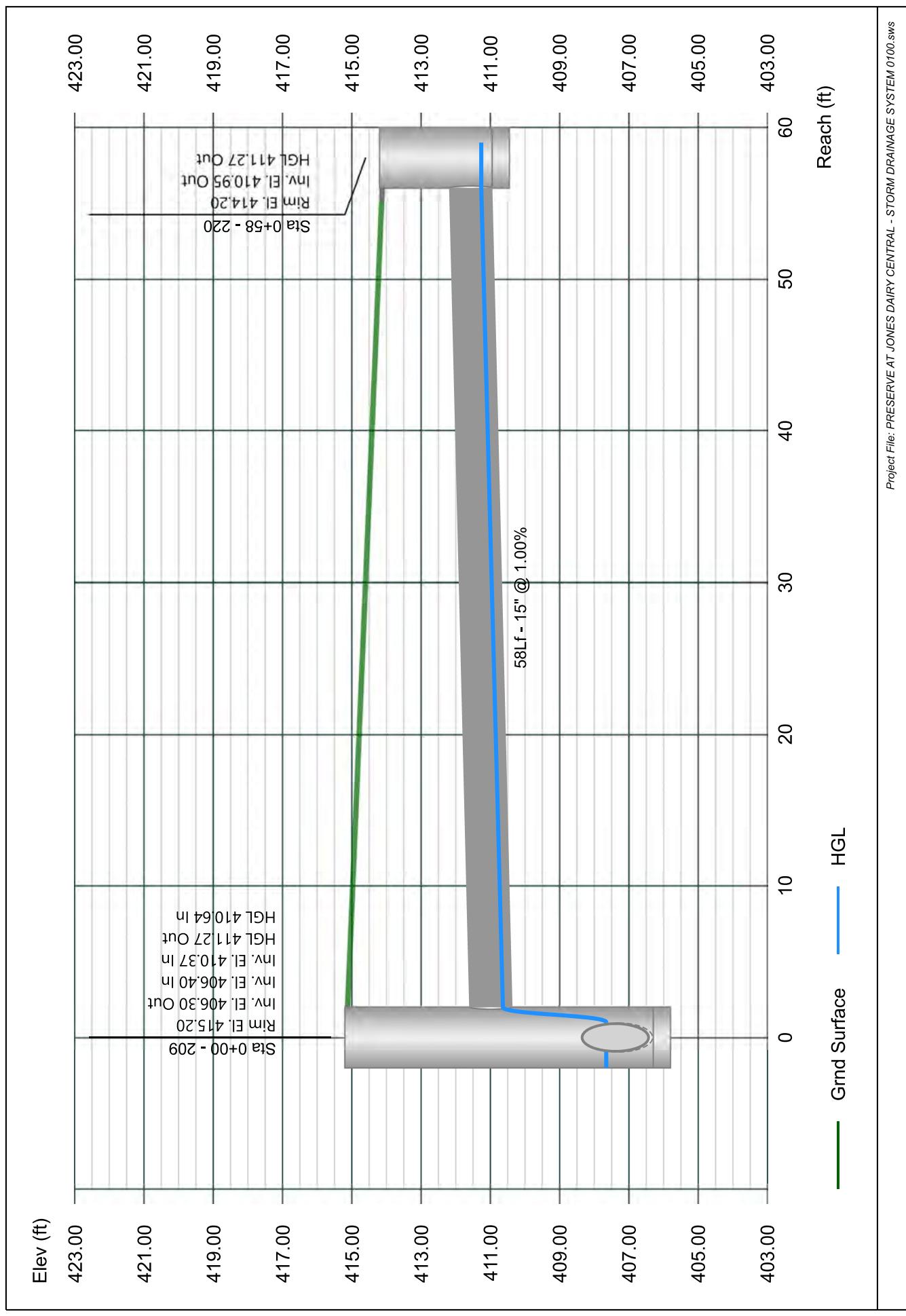


Line 121 - 220 TO 209

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

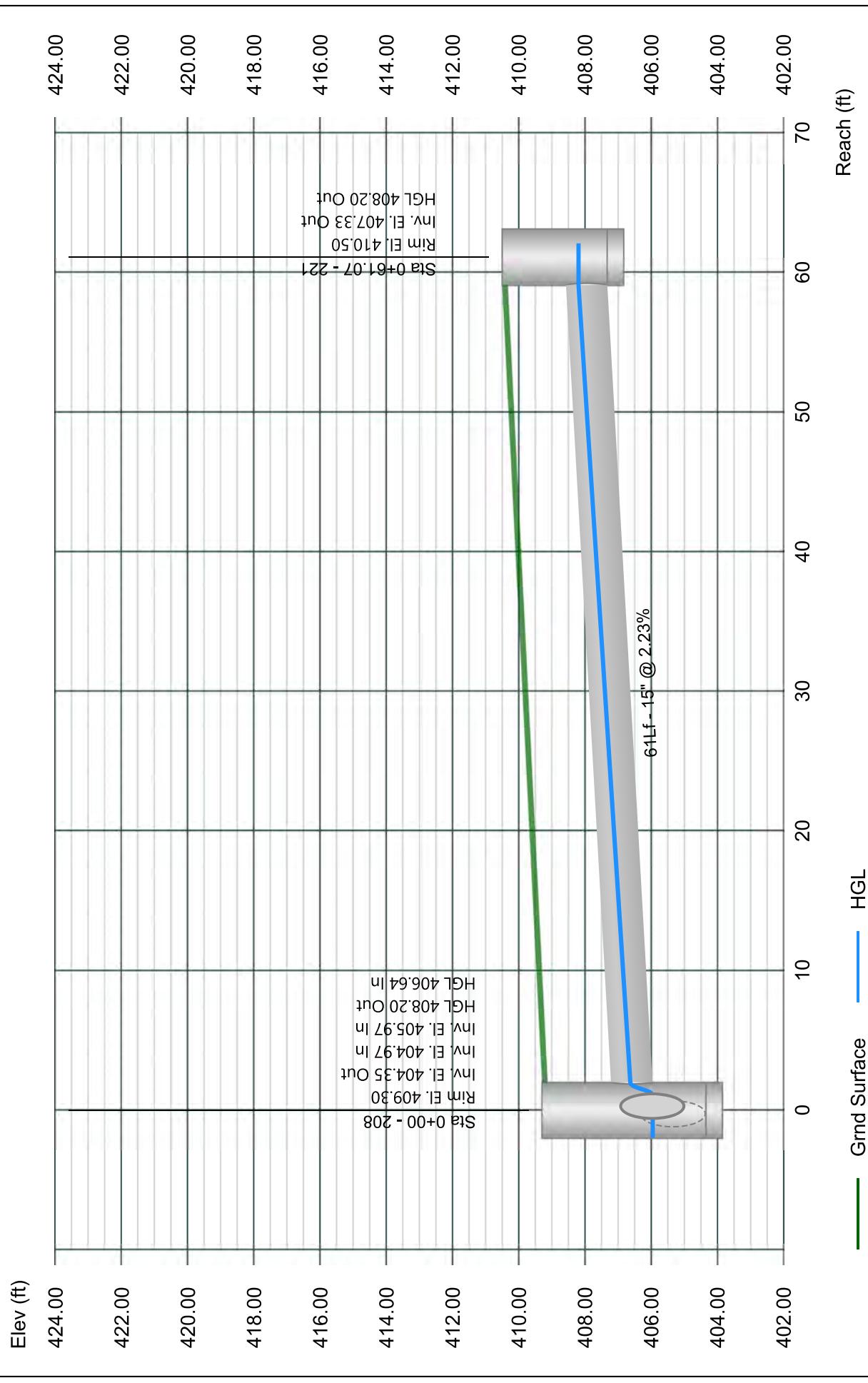


Line 122 - 221 TO 208

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

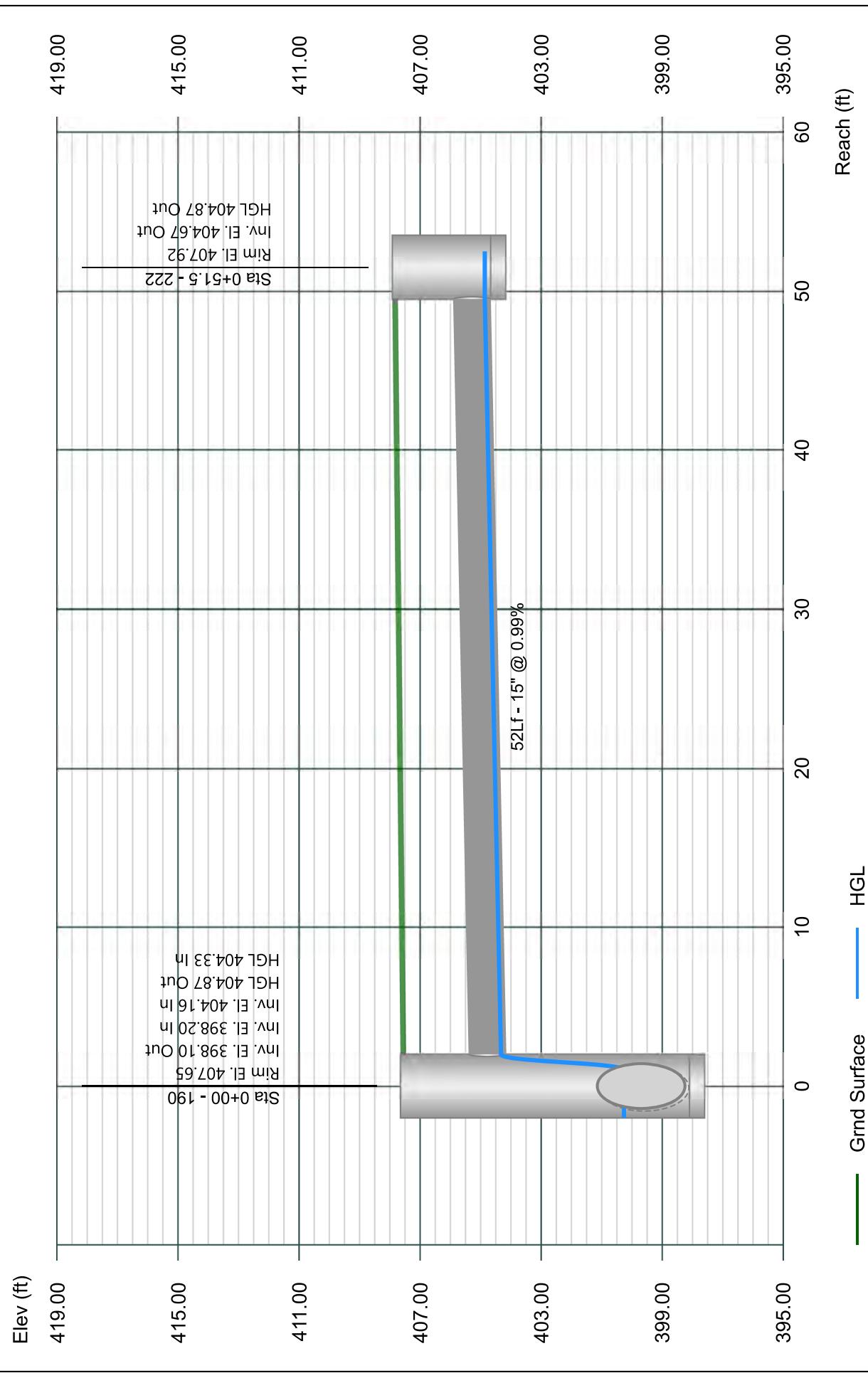


Line 123 - 222 TO 190

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

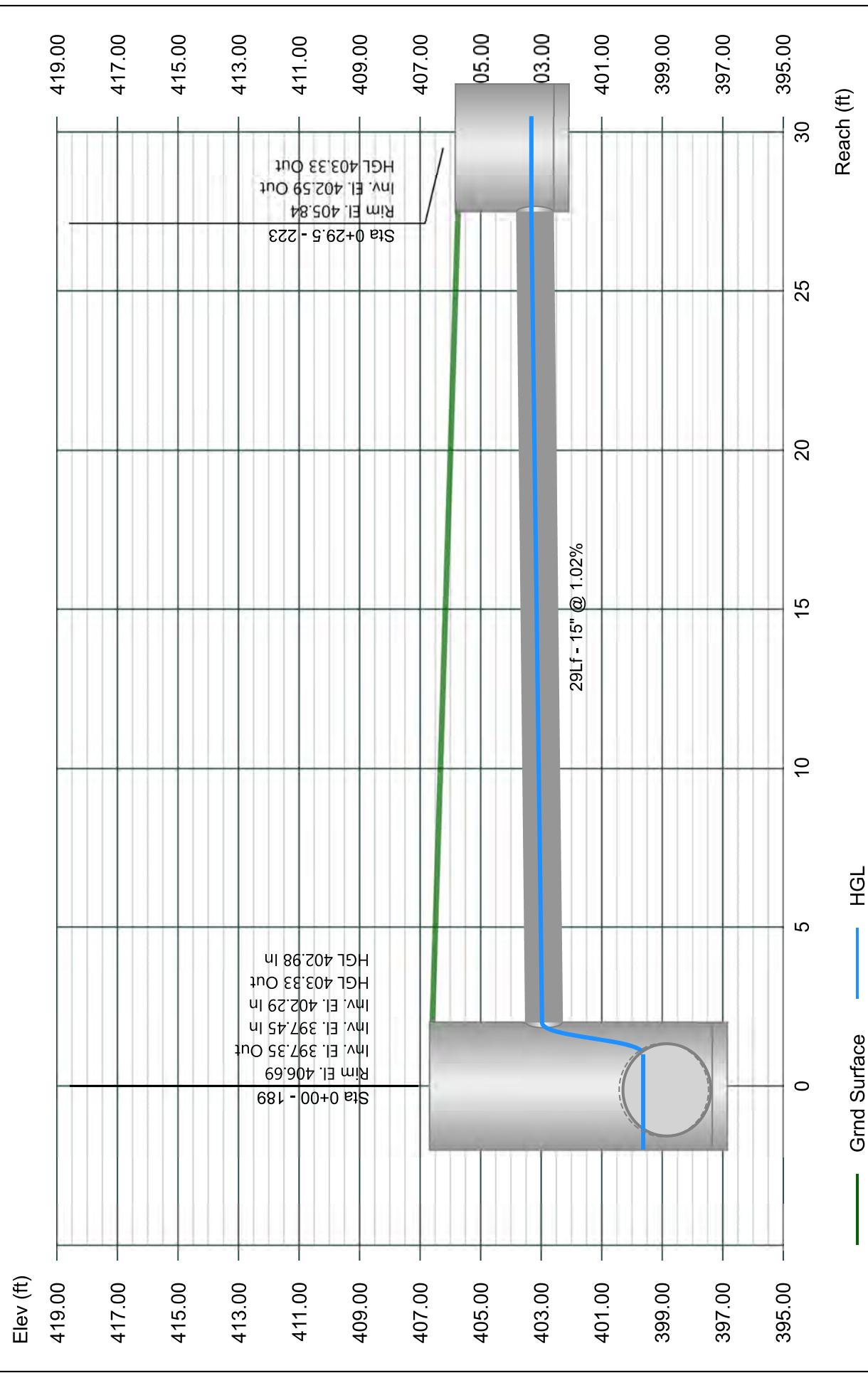


Line 124 - 223 TO 189

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

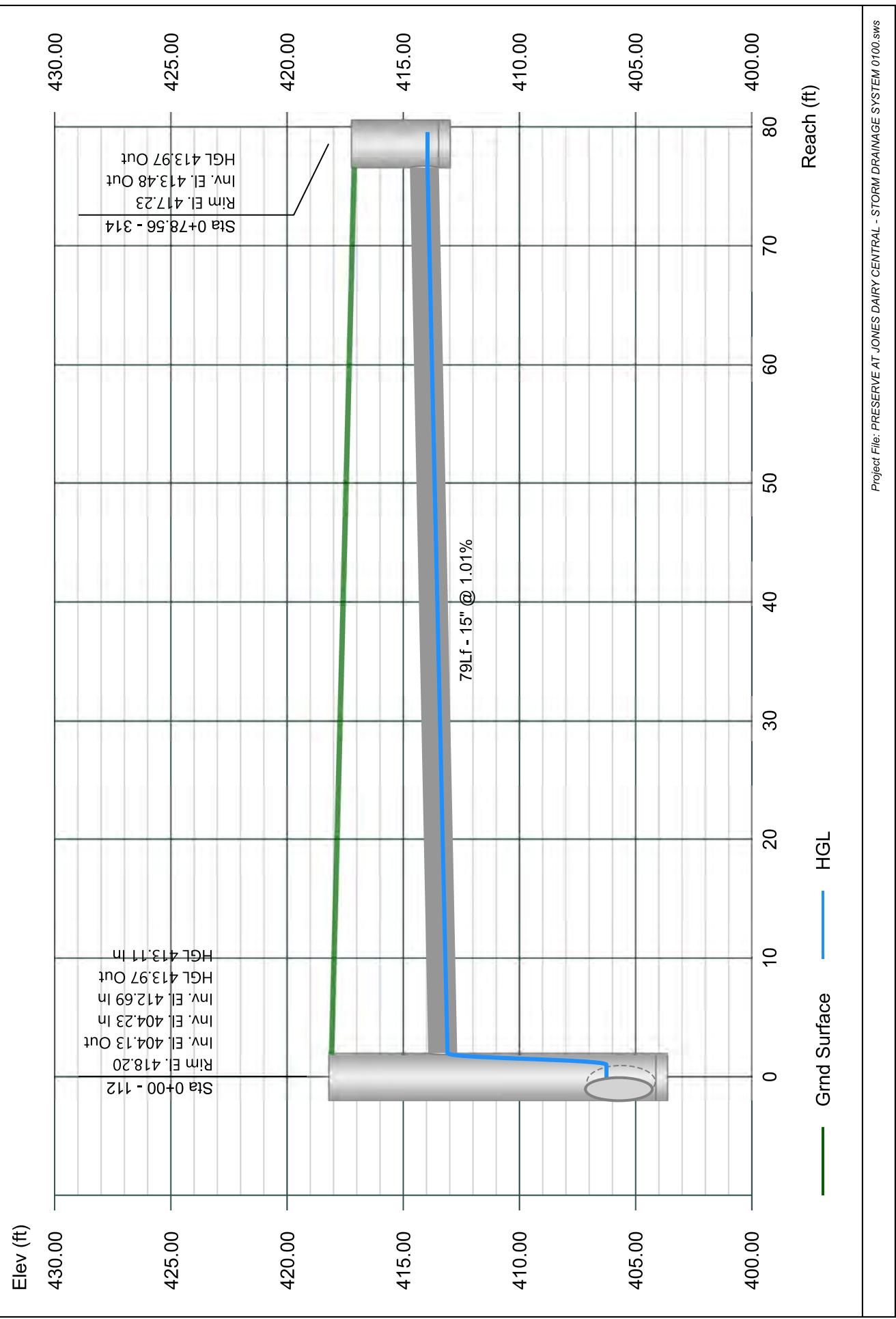


Line 125 - 314 TO 112

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

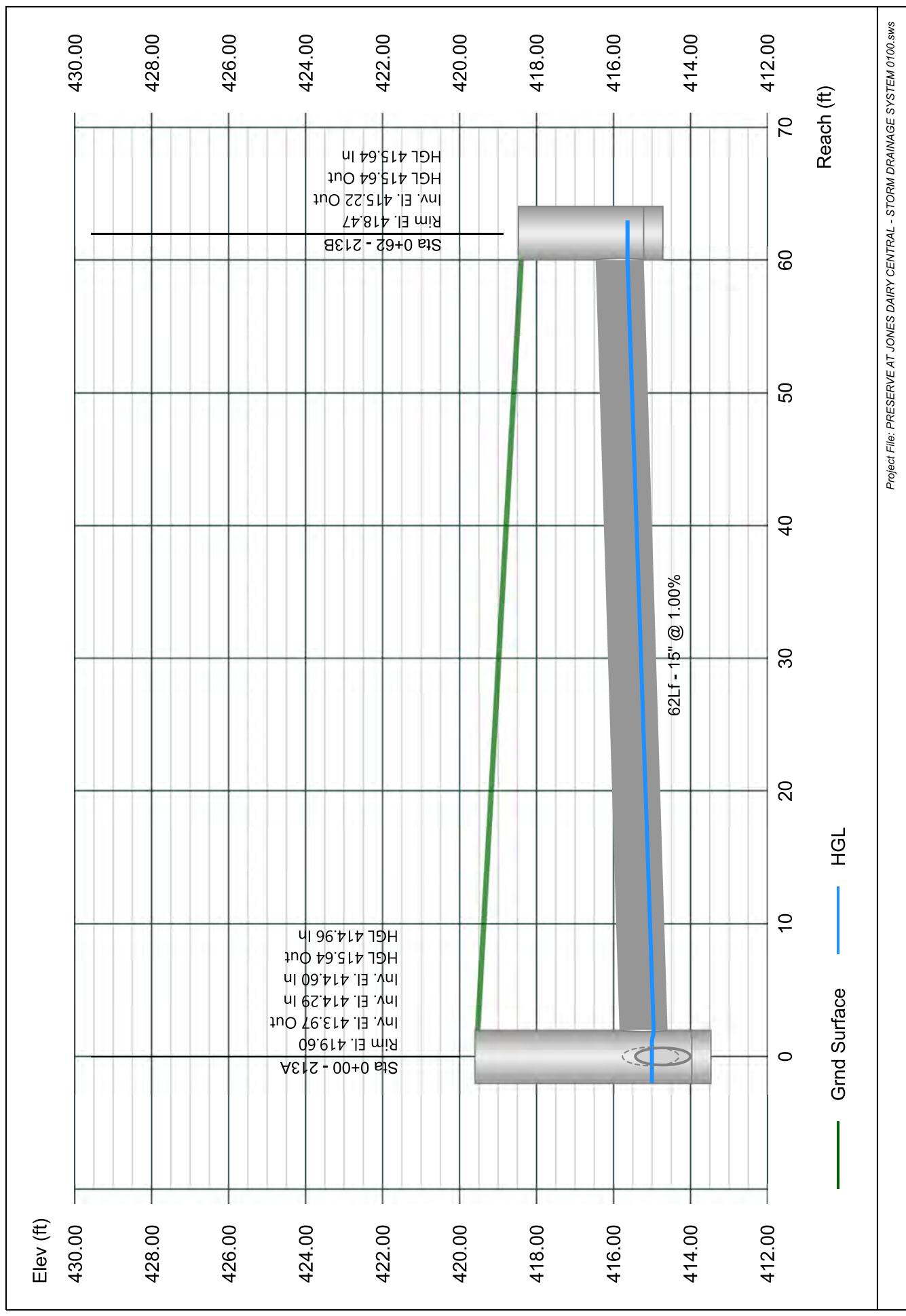


Line 126 - 213B TO 213A

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

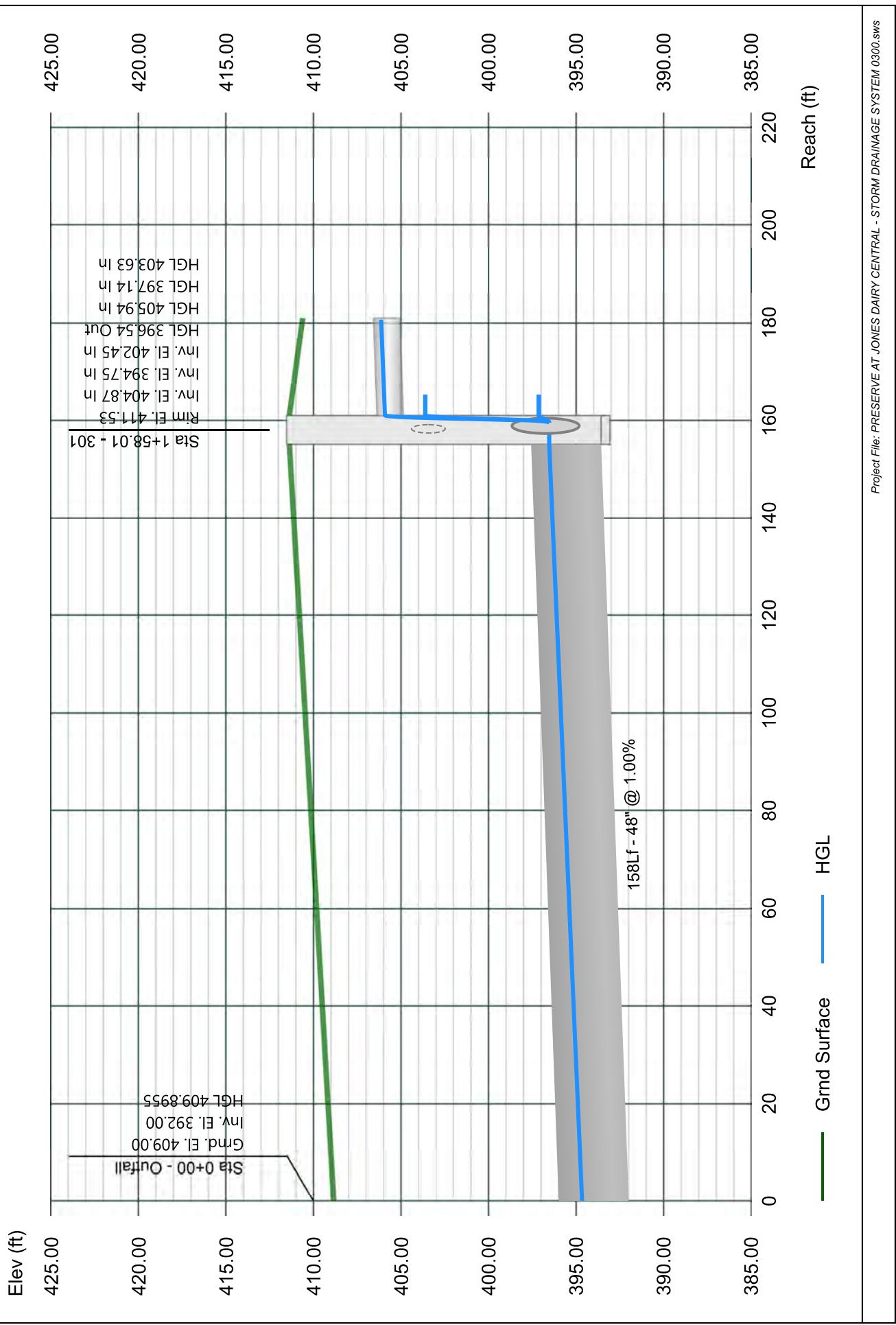


Line 1 - 301 TO 300

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

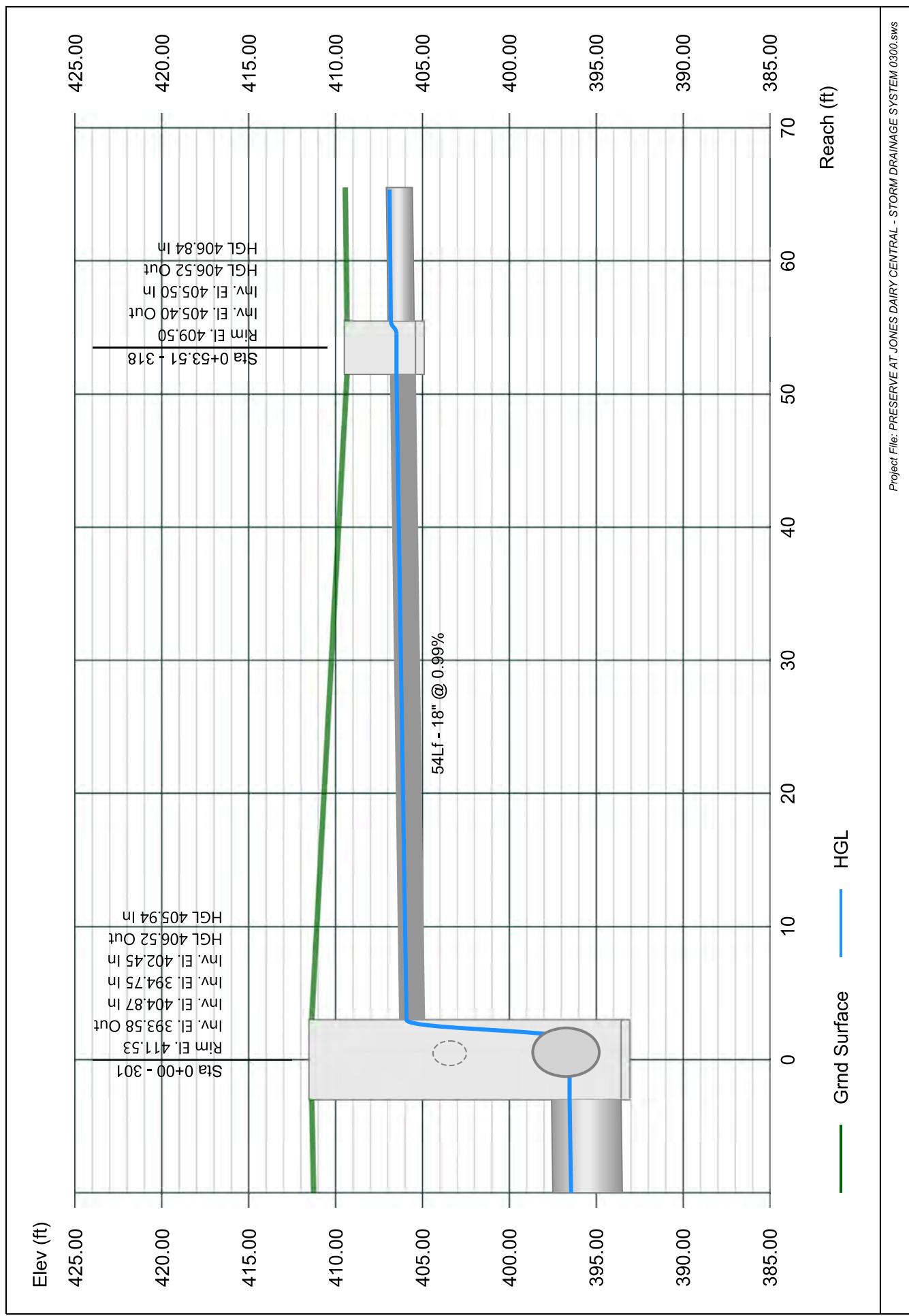


Line 2 - 318 TO 301

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

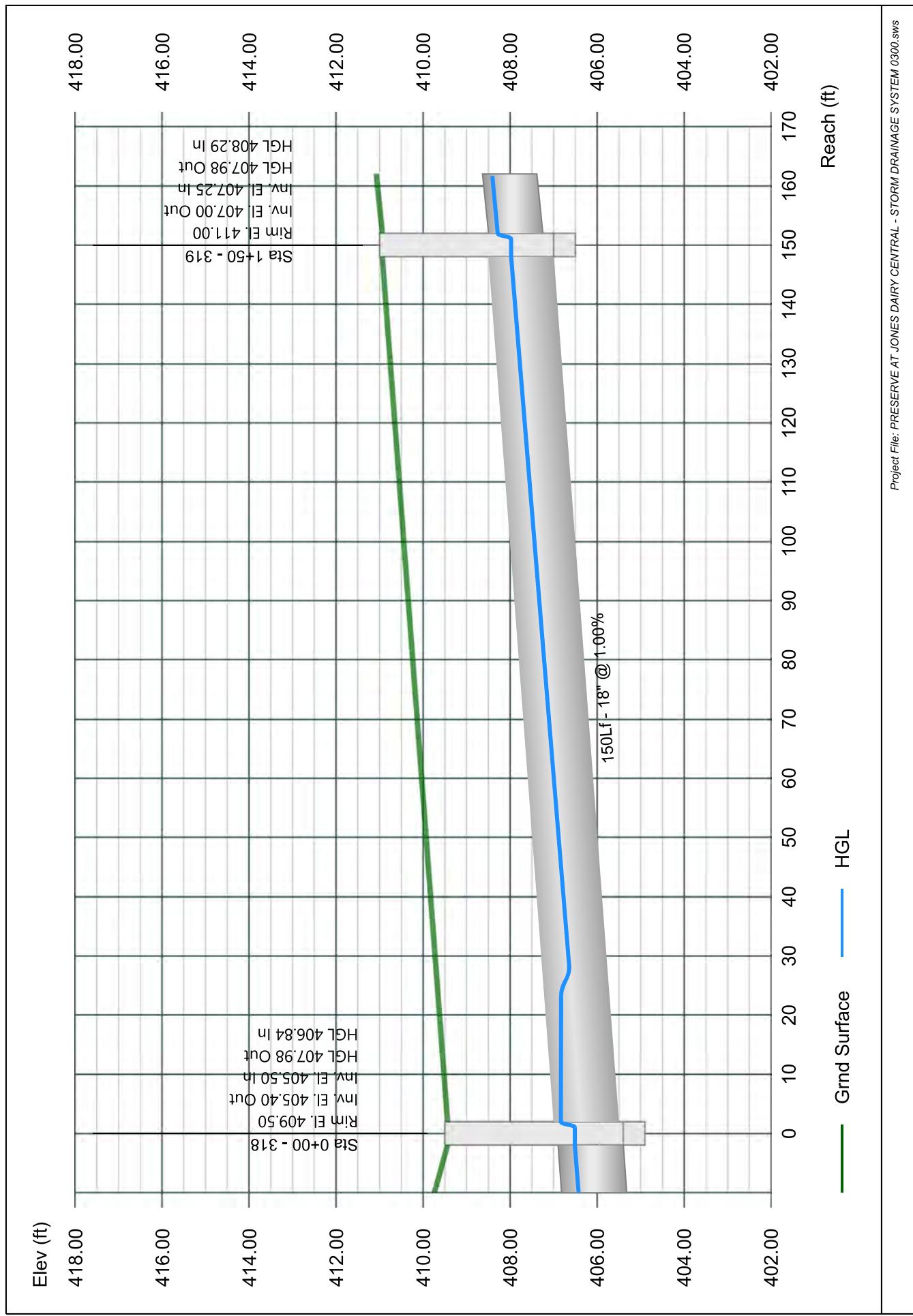


Line 3 - 319 TO 318

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

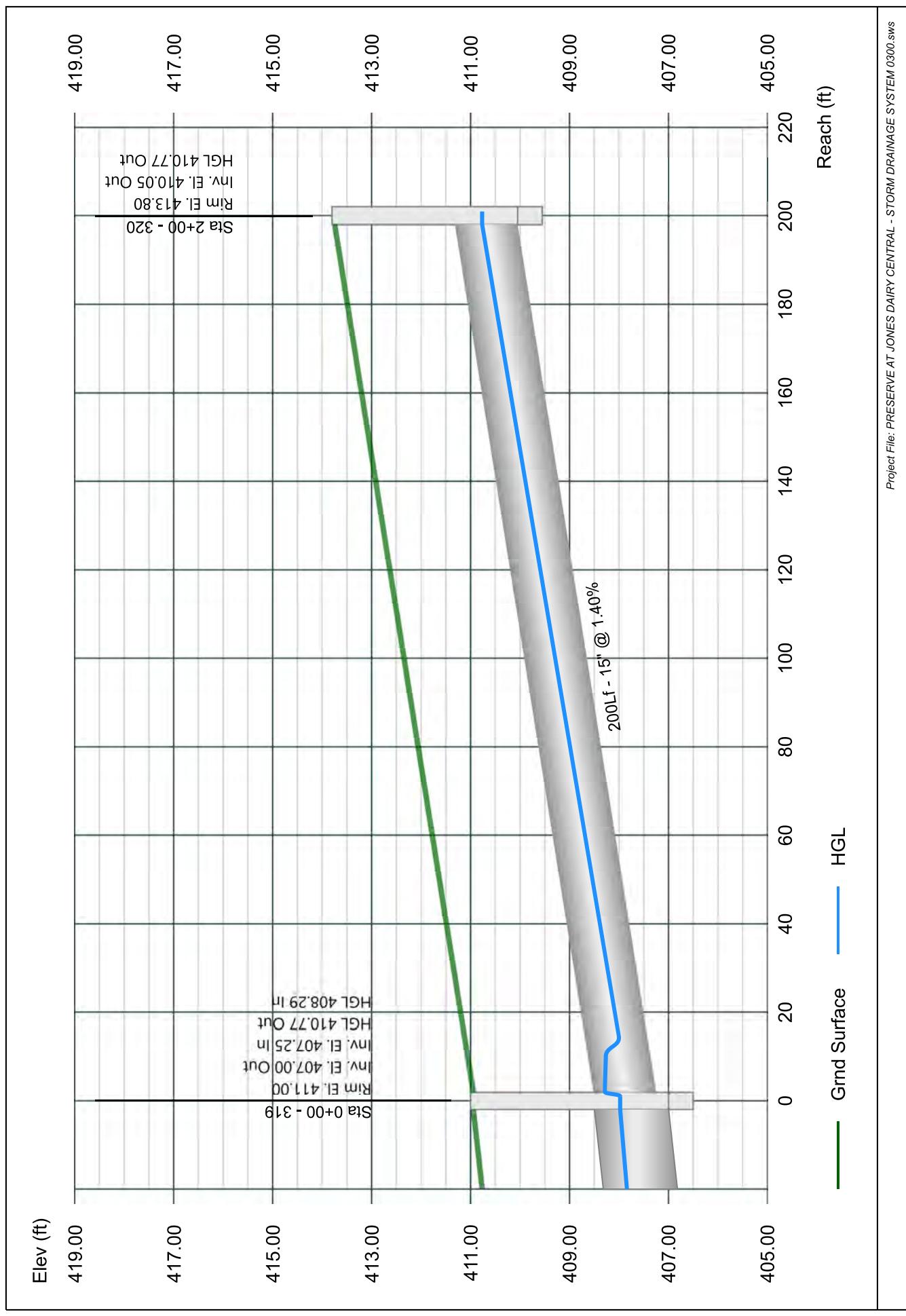


Line 4 - 320 TO 319

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

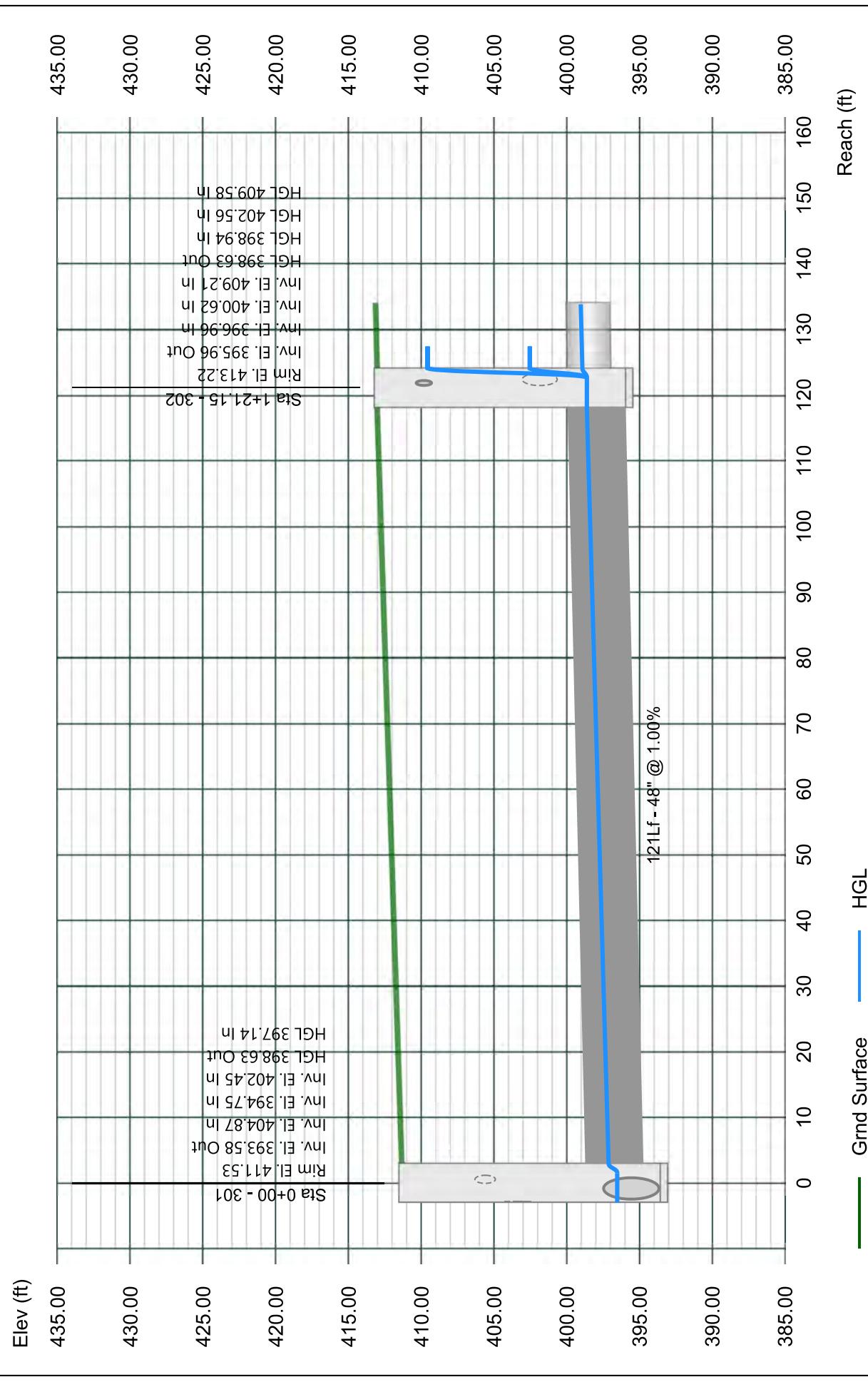


Line 5 - 302 TO 301

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

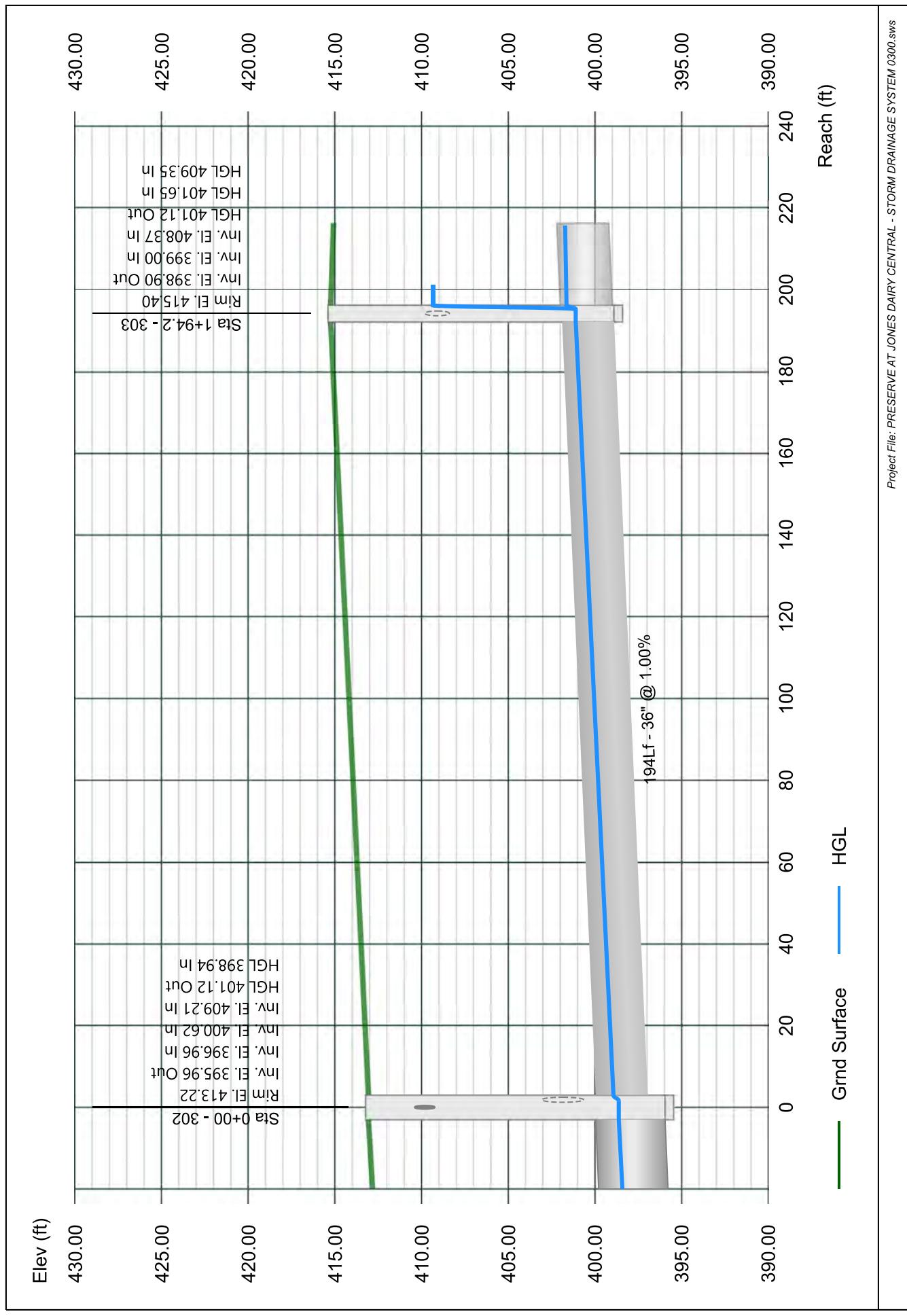


Line 6 - 303 TO 302

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

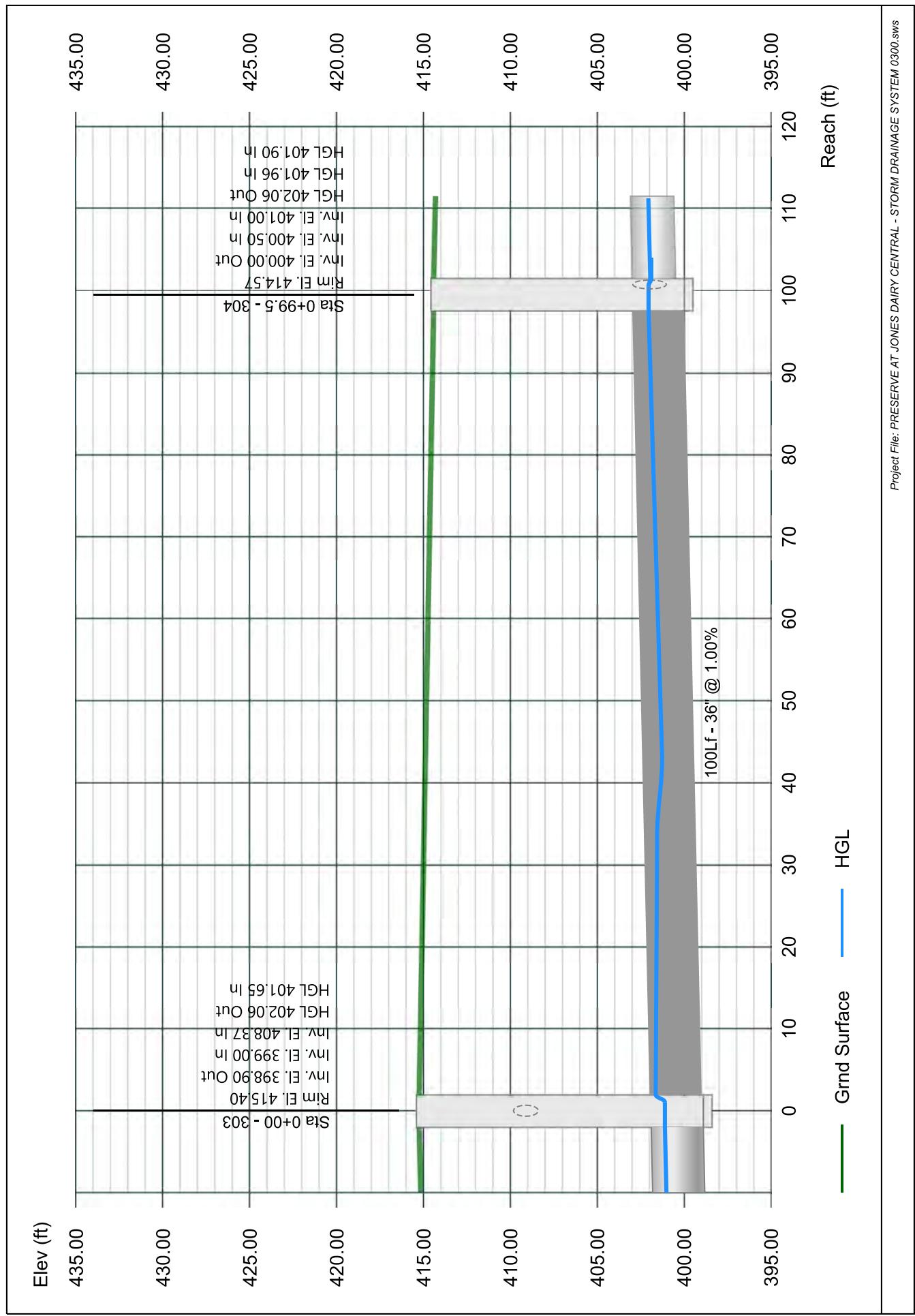


Line 7 - 304 TO 303

Project Name: Enter Project Name...

Stormwater Studio 2023 v 3.0.0.31

05-03-2023

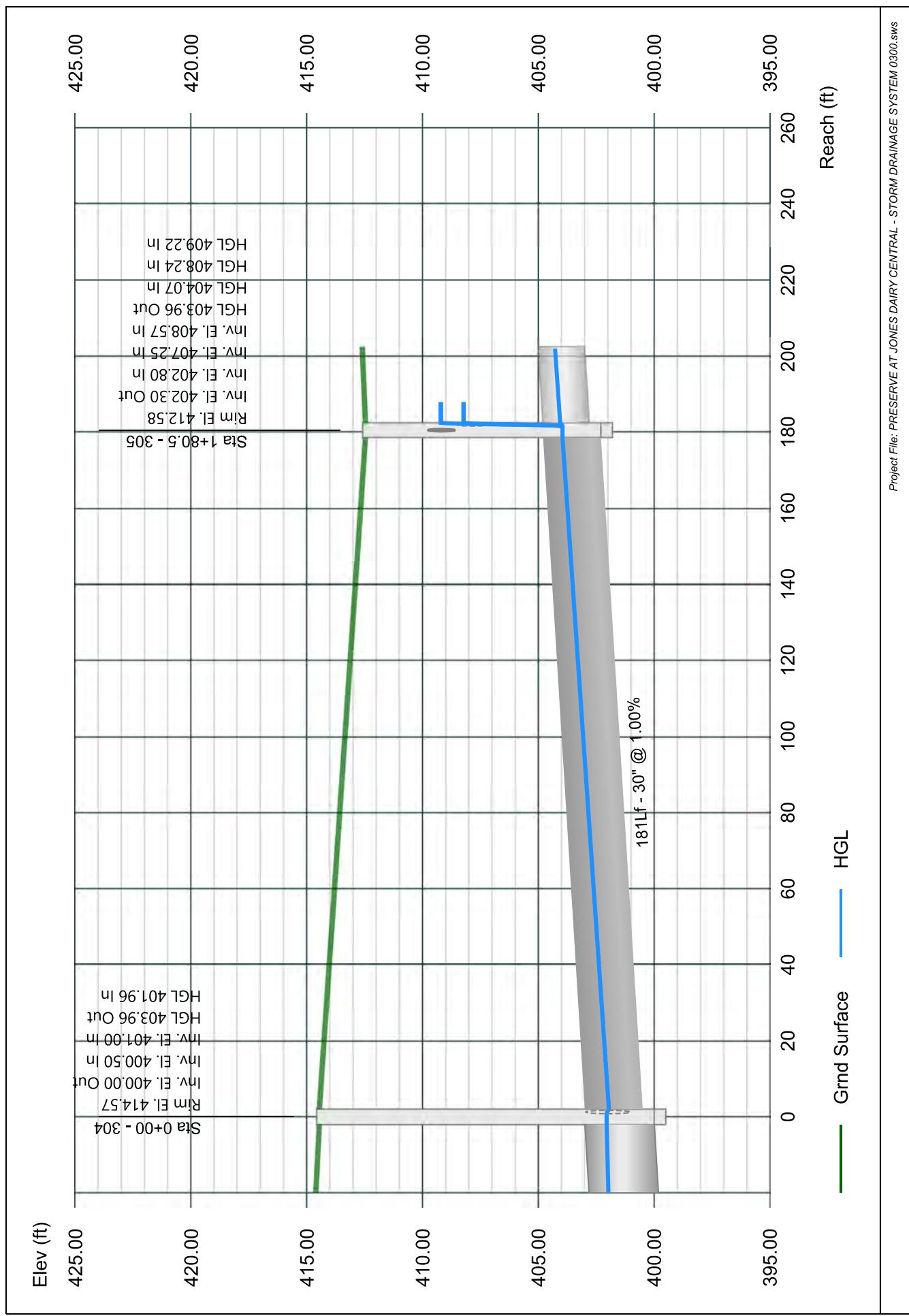


Line 8 - 305 TO 304

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

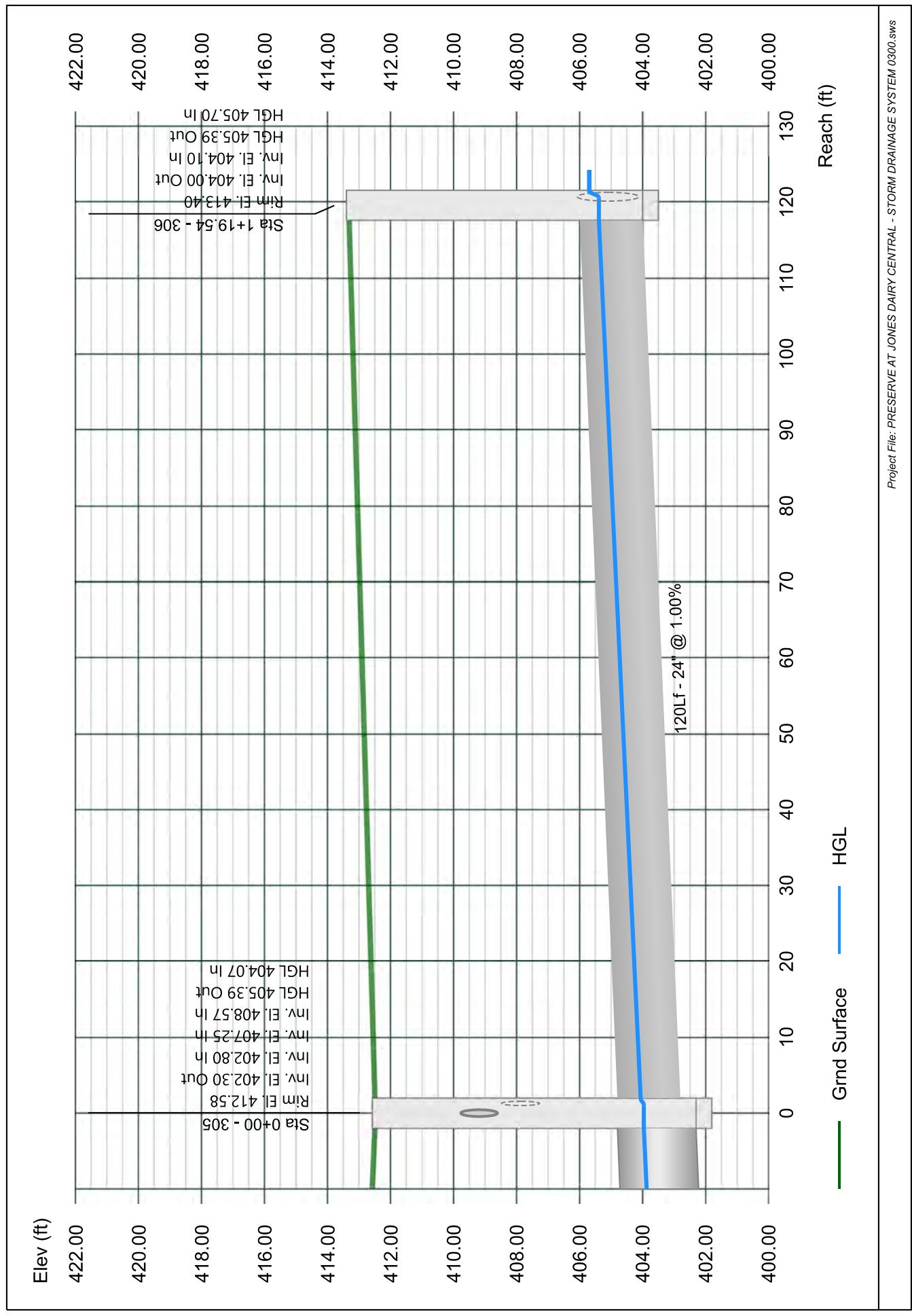


Line 9 - 306 TO 305

Project Name: Enter Project Name...

Stormwater Studio 2023 v 3.0.0.31

05-03-2023

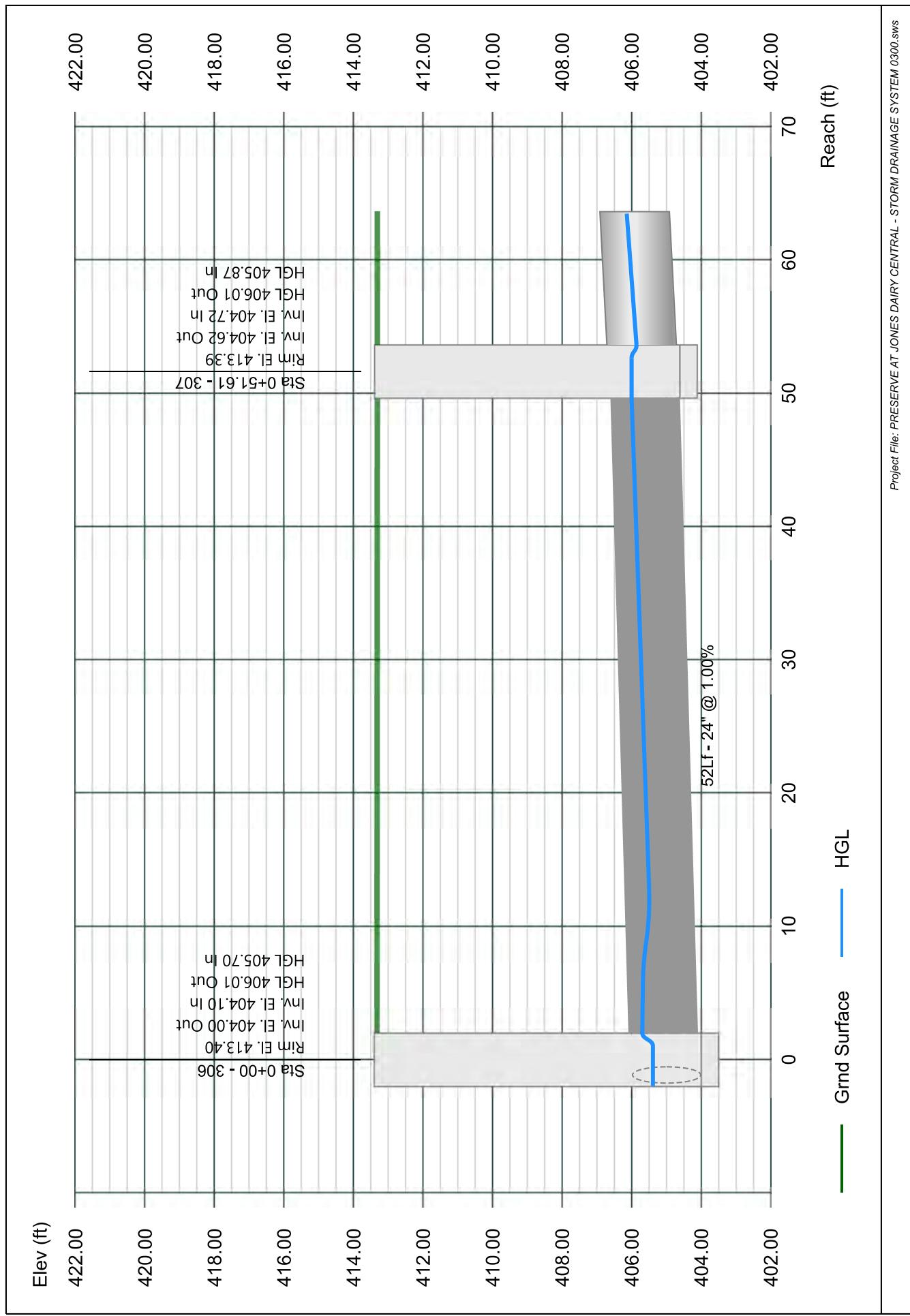


Line 10 - 307 TO 306

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

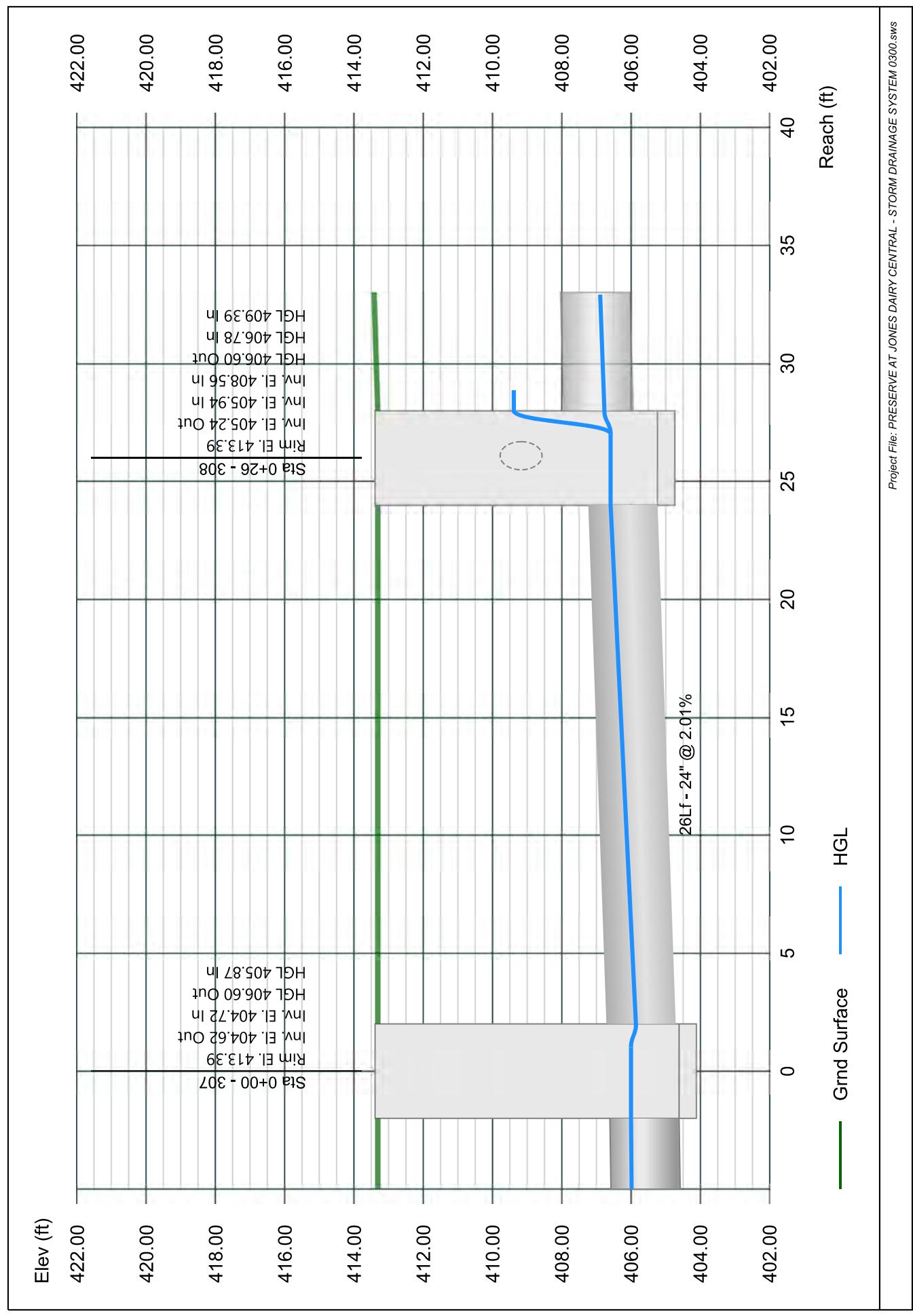


Line 11 - 308 TO 307

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

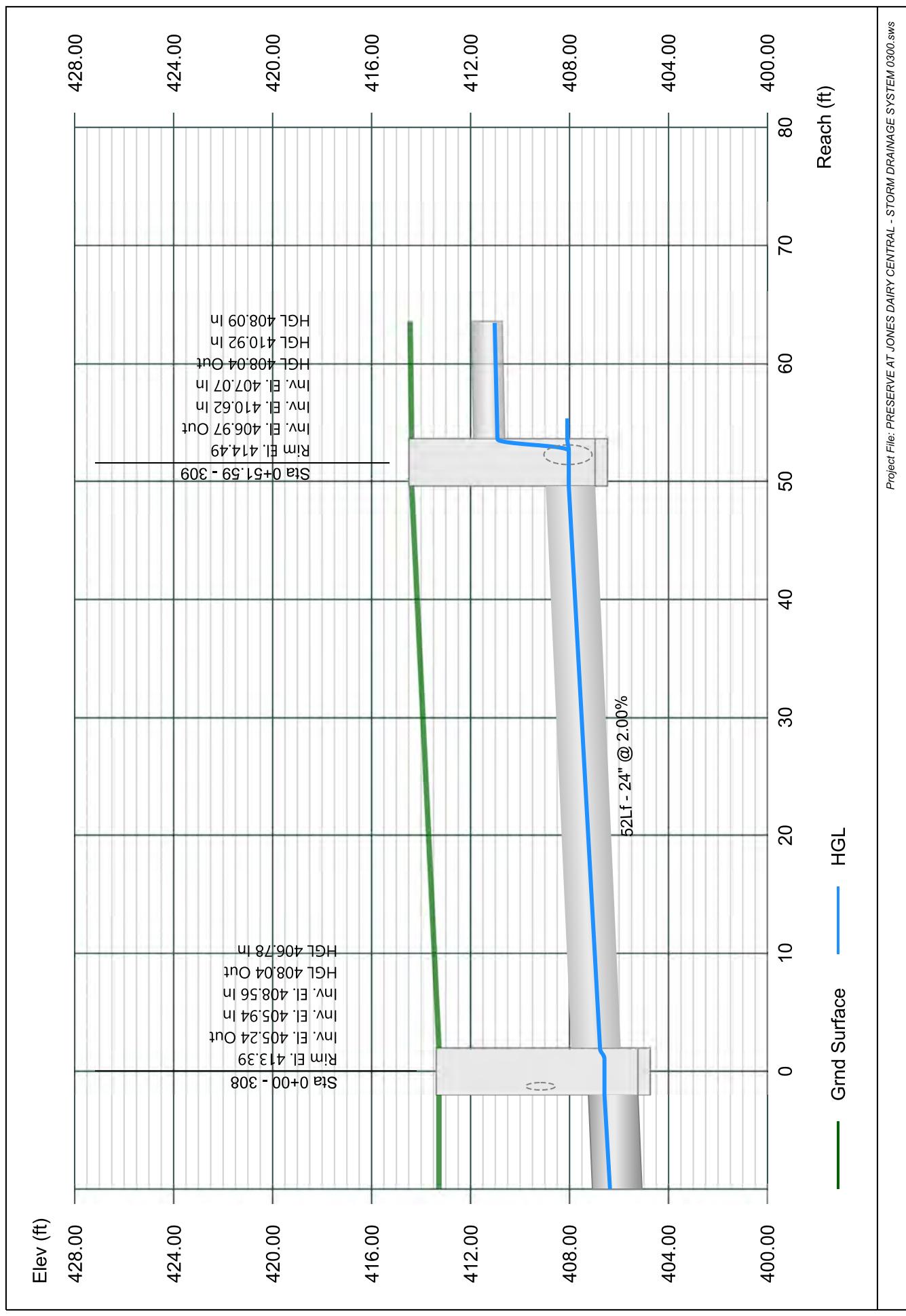


Line 12 - 309 TO 308

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

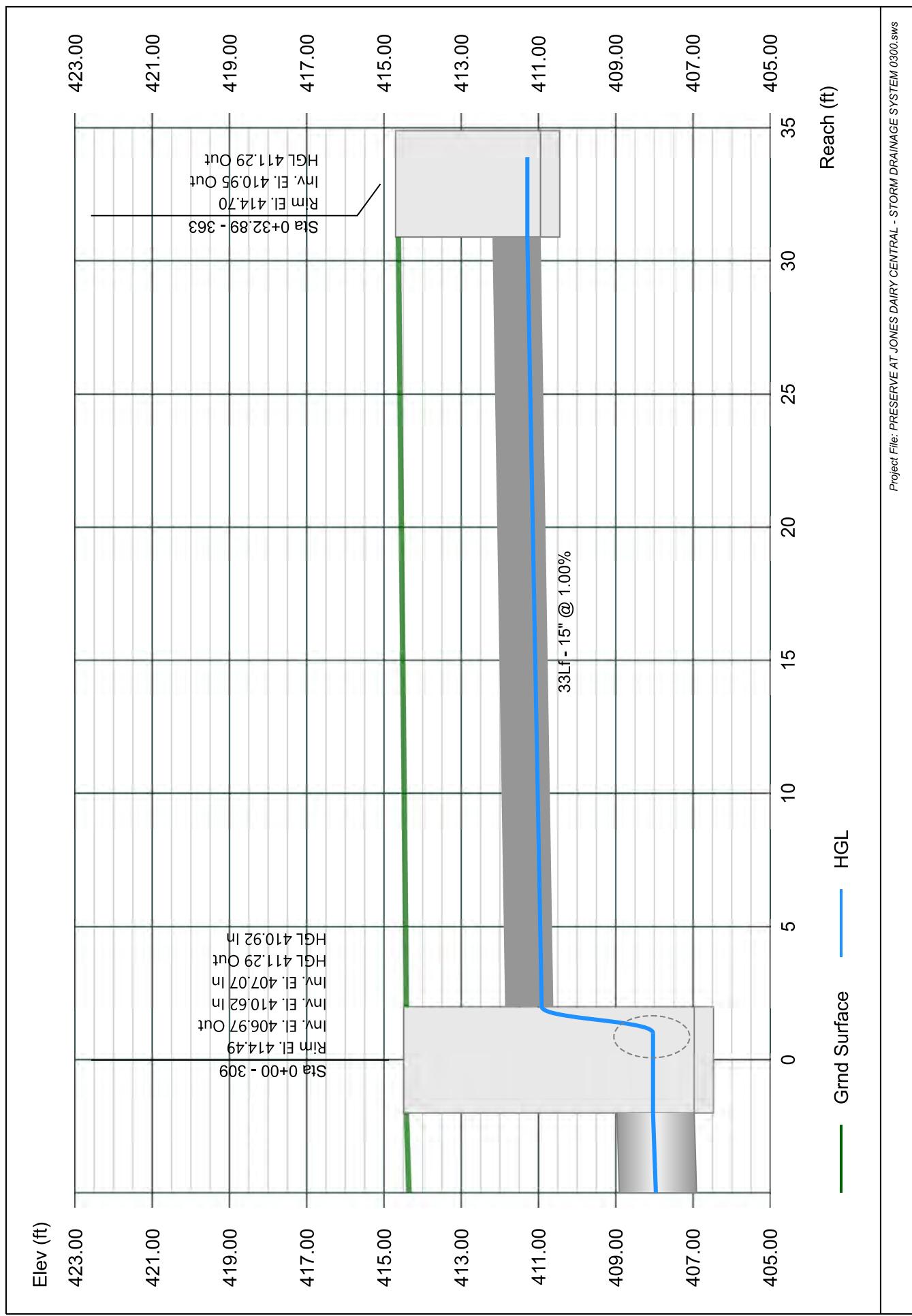


Line 13 - 363 TO 309

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

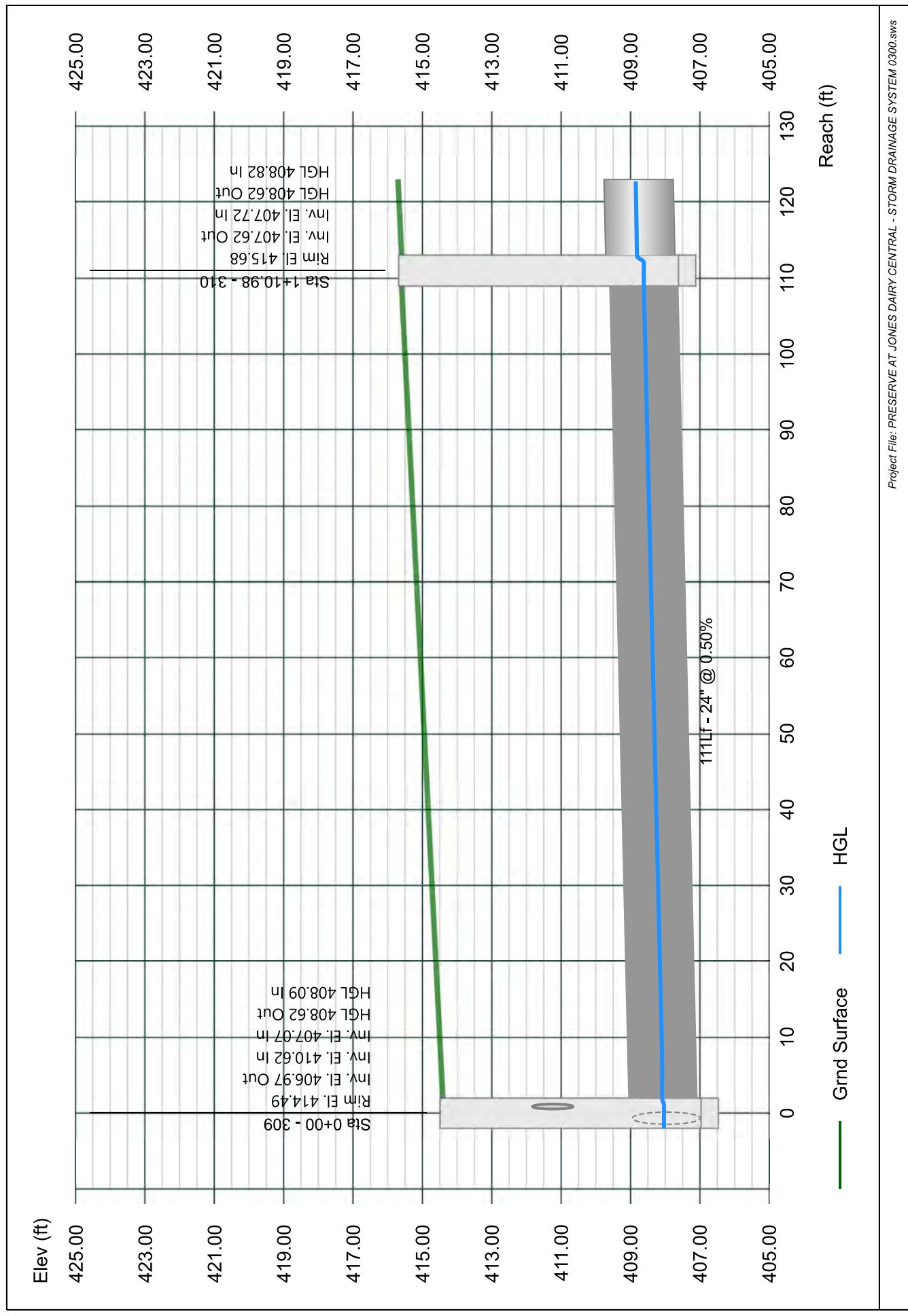


Line 14 - 310 TO 309

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

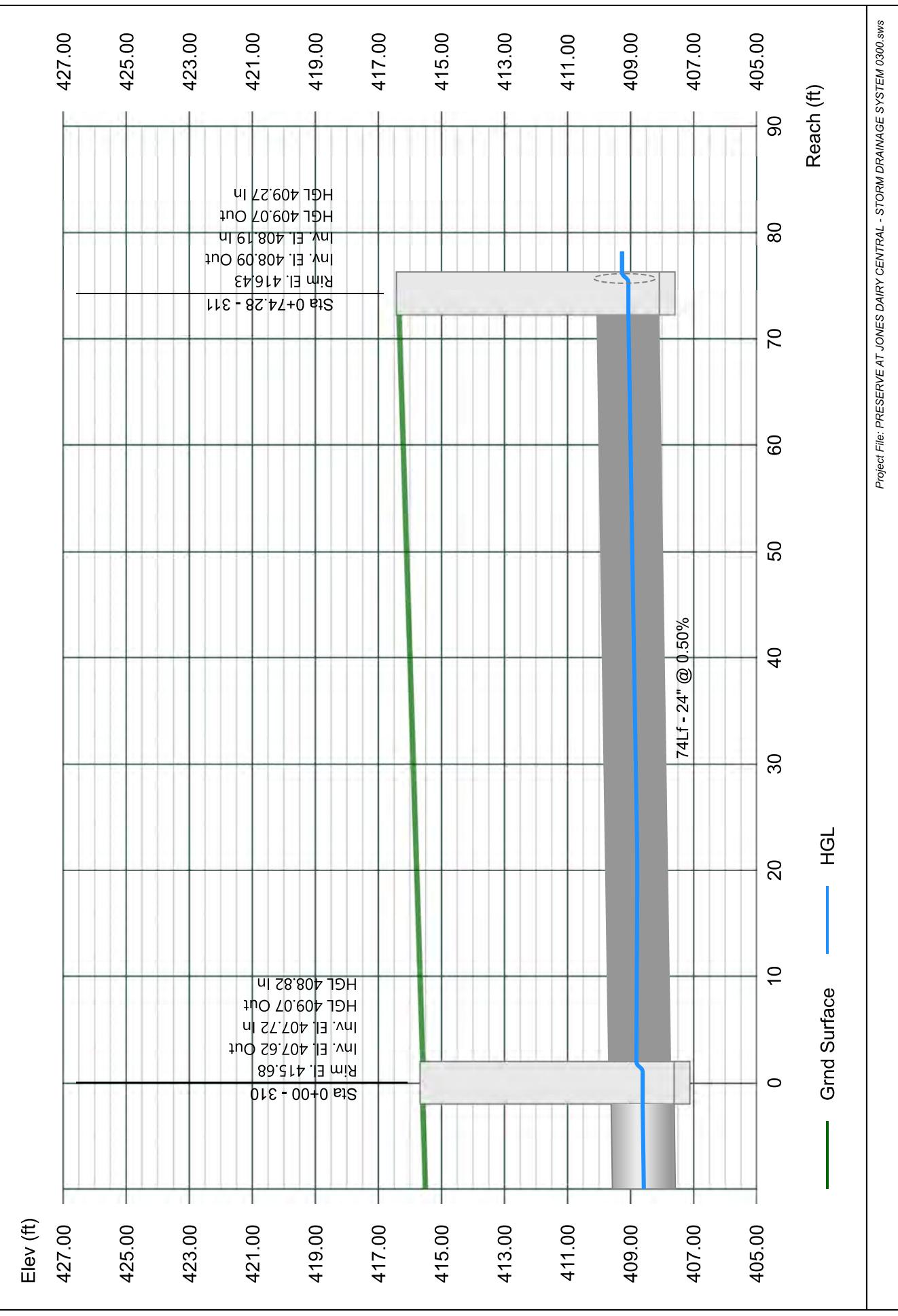


Line 15 - 311 TO 310

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

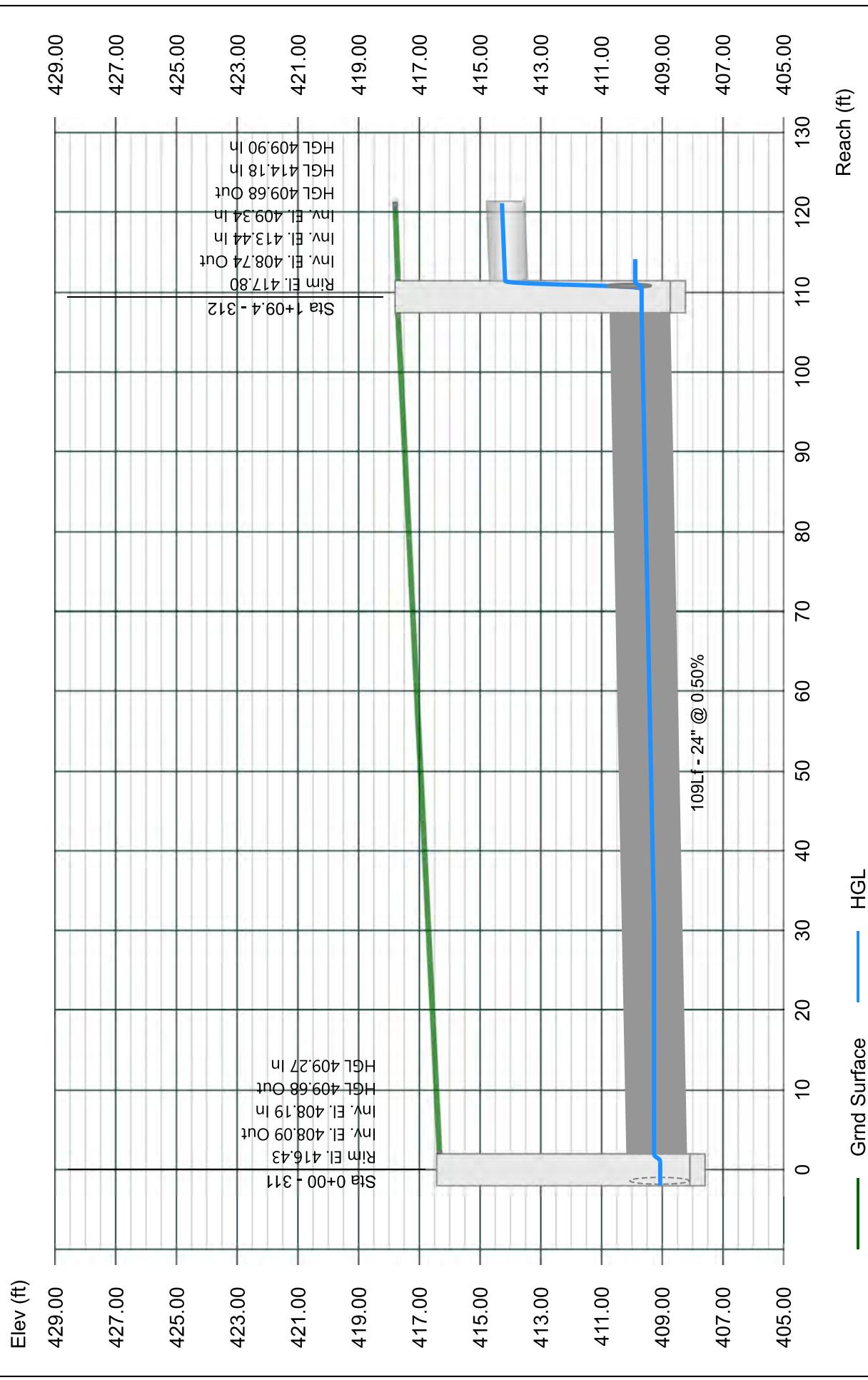


Line 16 - 312 TO 311

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

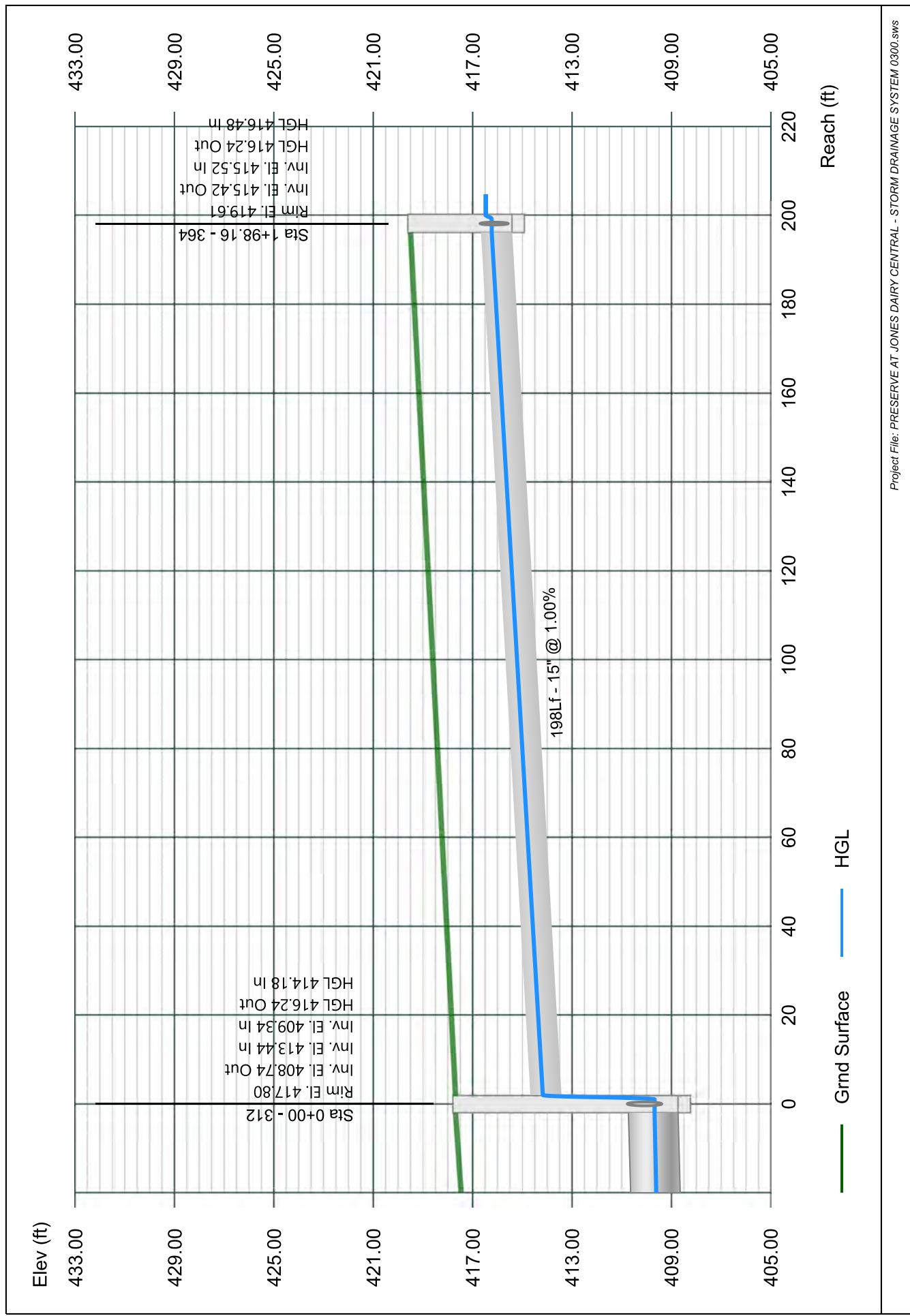


Line 17 - 364 TO 312

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

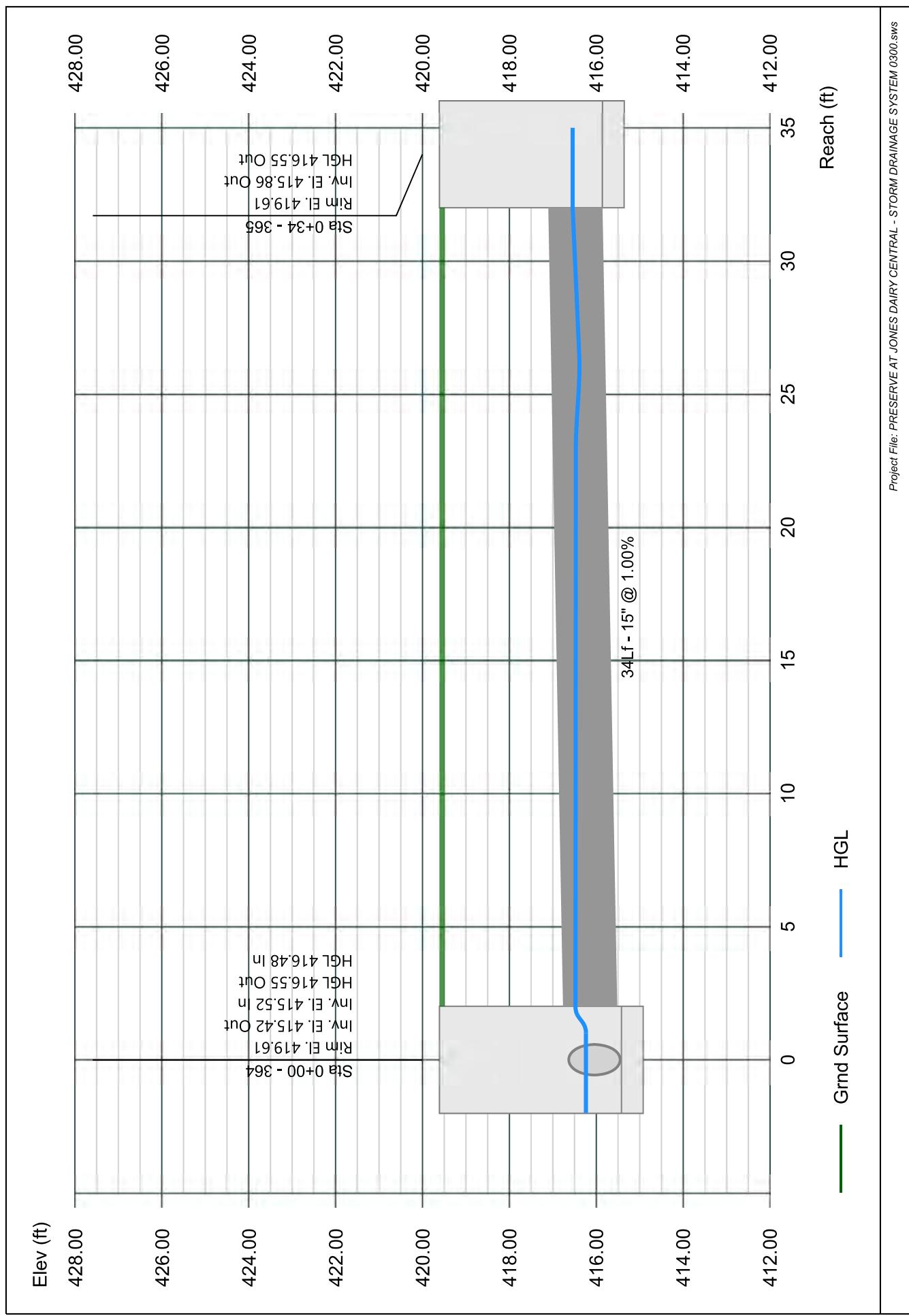


Line 18 - 365 TO 364

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

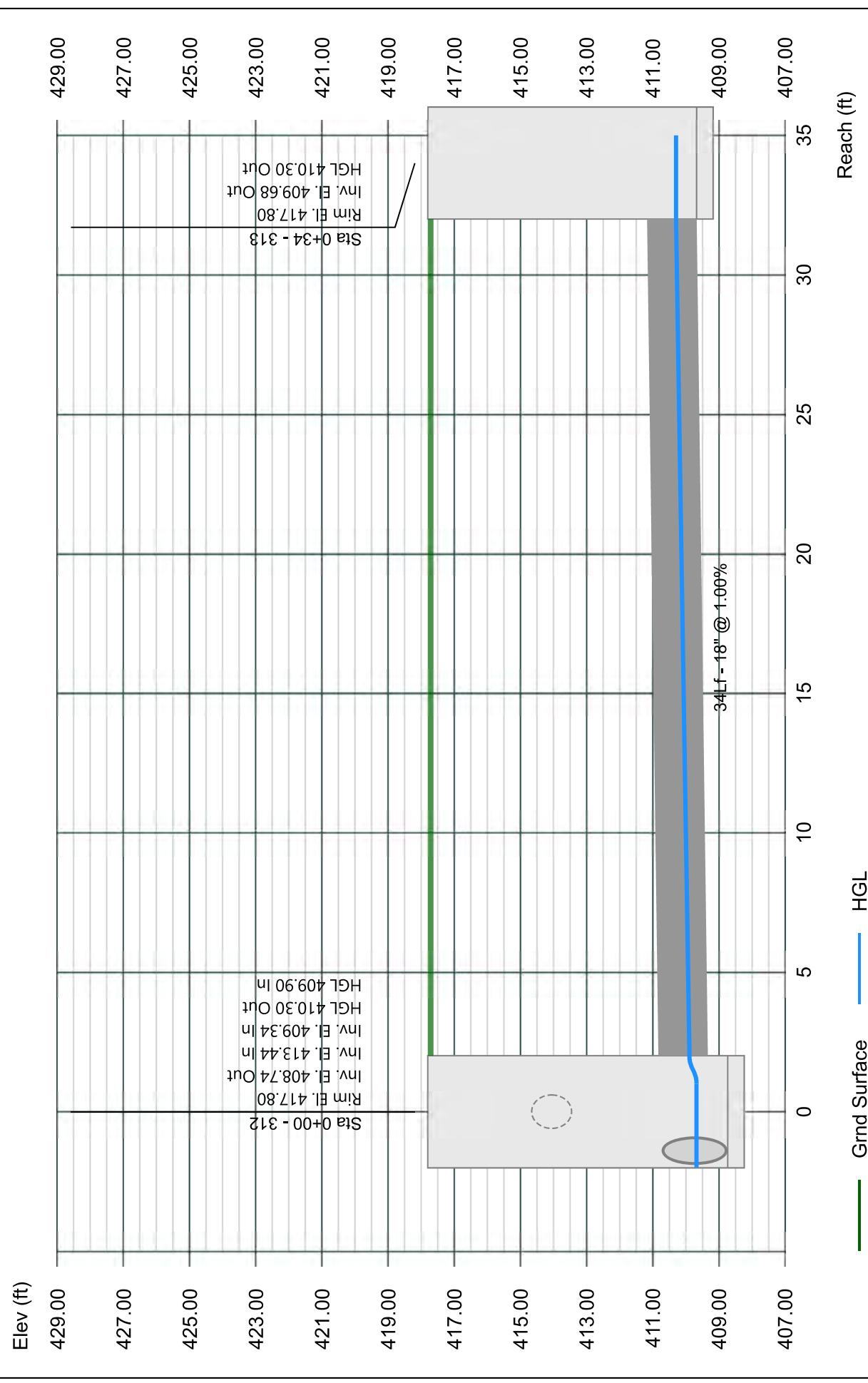


Line 19 - 313 TO 312

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

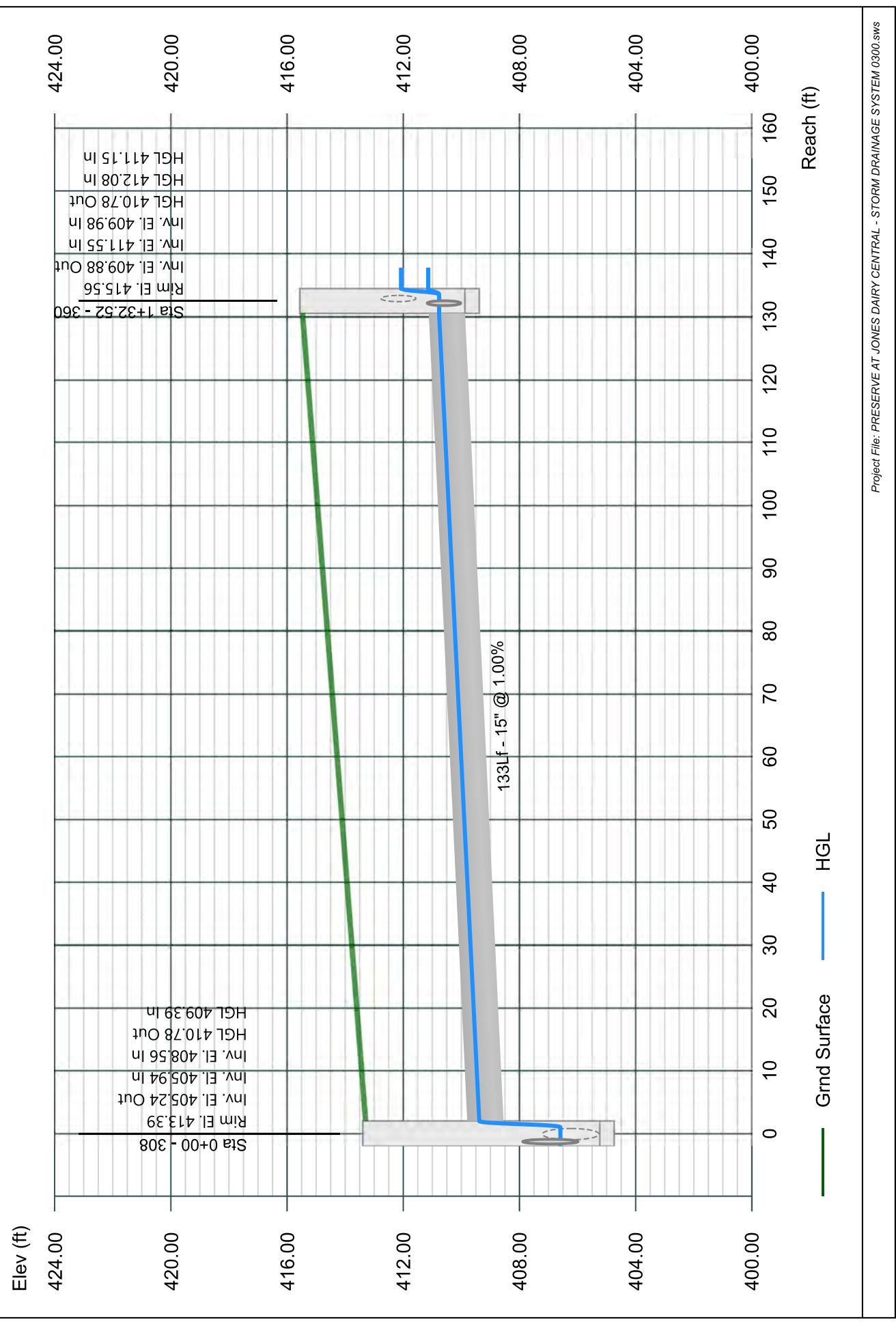


Line 20 - 360 TO 308

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

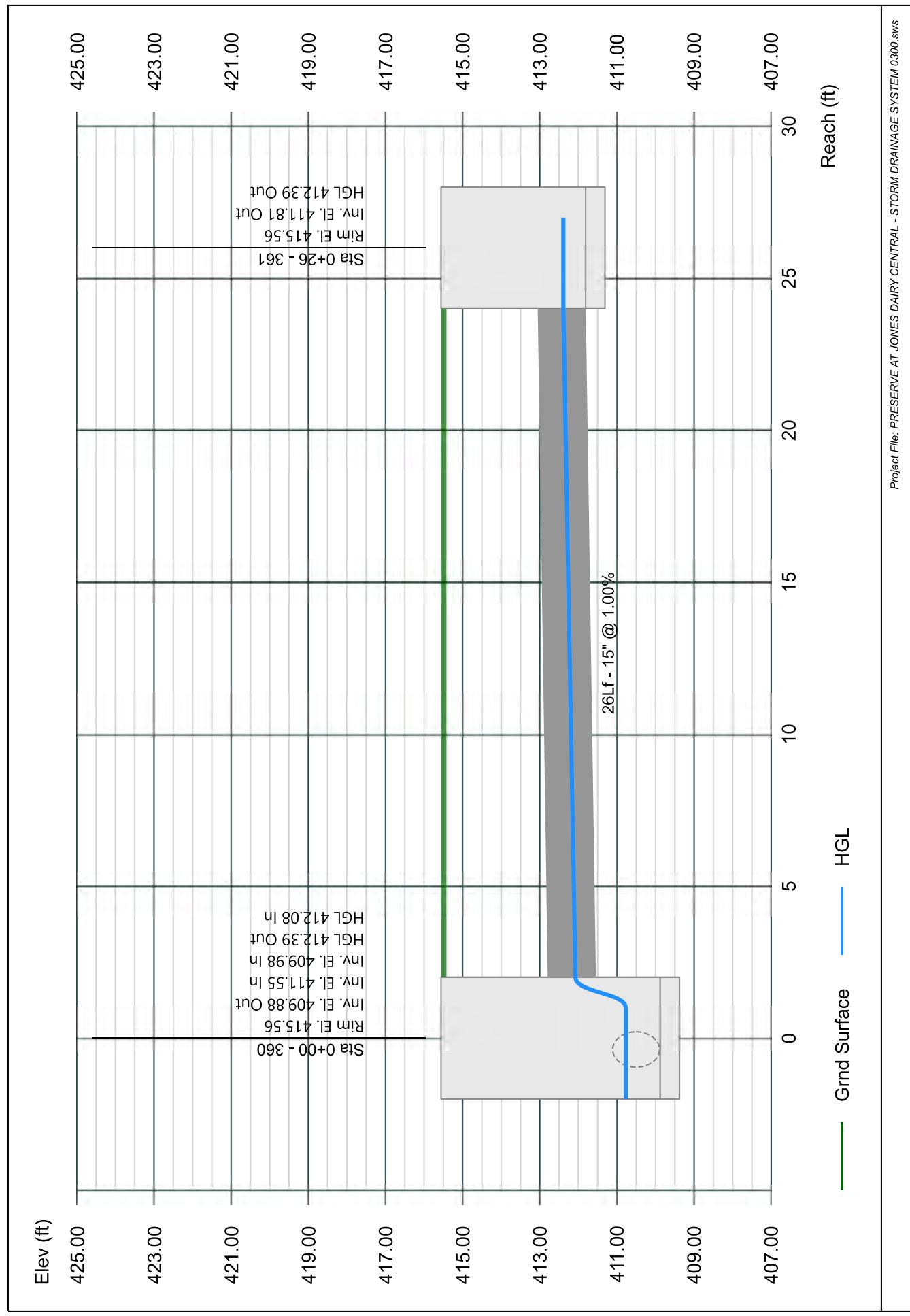
05-03-2023



Line 21 - 361 TO 360

Project Name: Enter Project Name...

05-03-2023

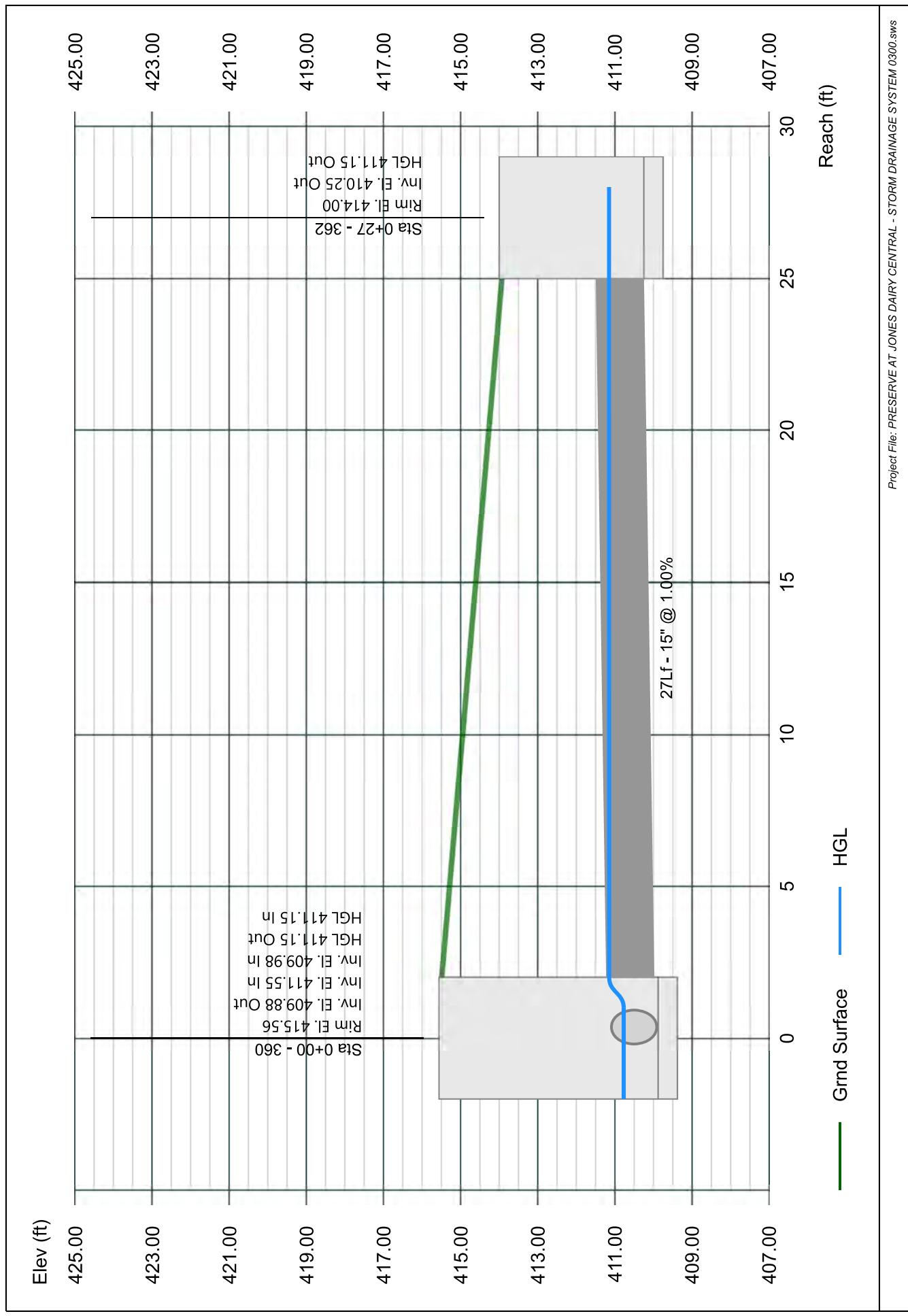


Line 22 - 362 TO 360

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

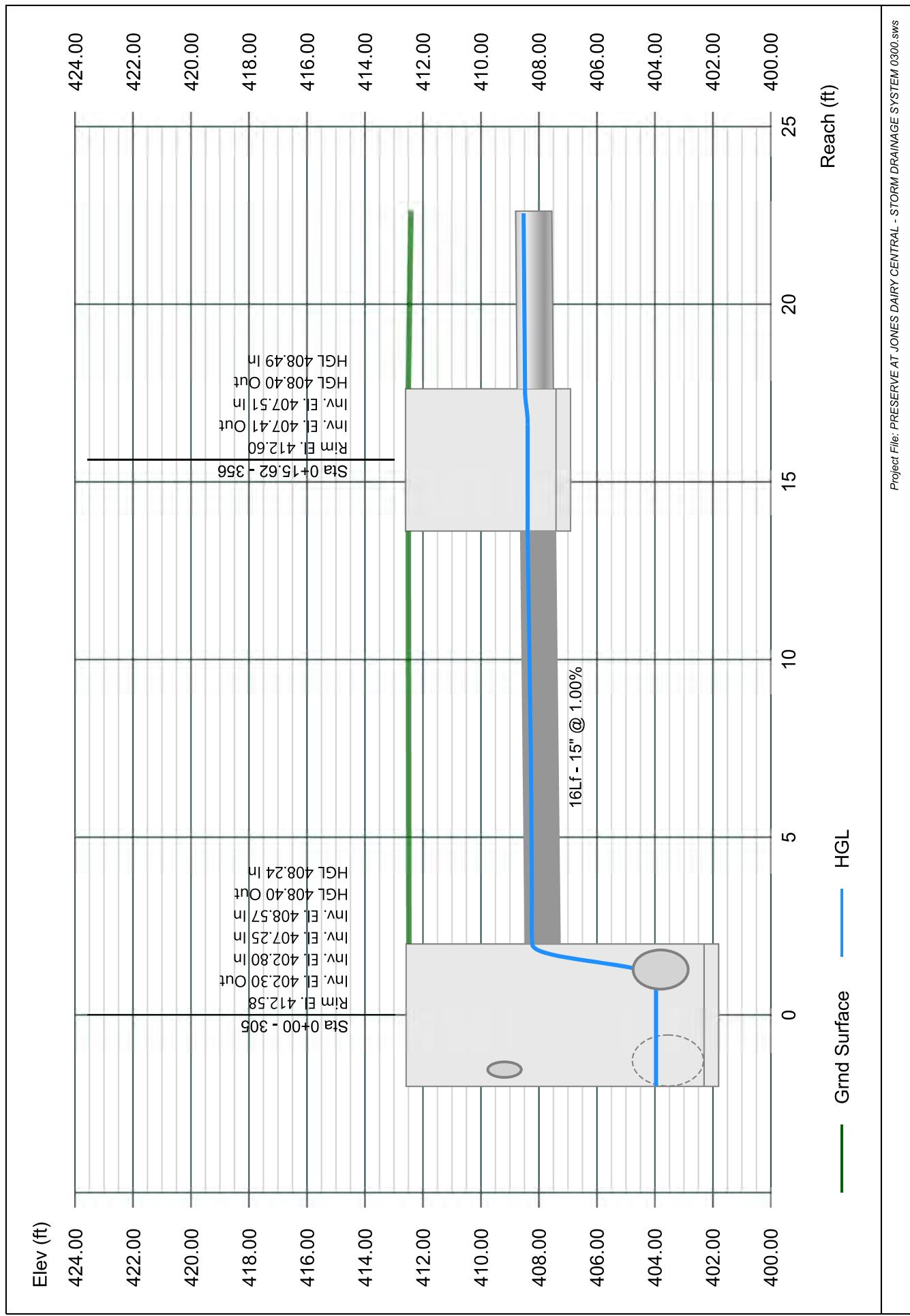


Line 23 - 356 TO 305

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

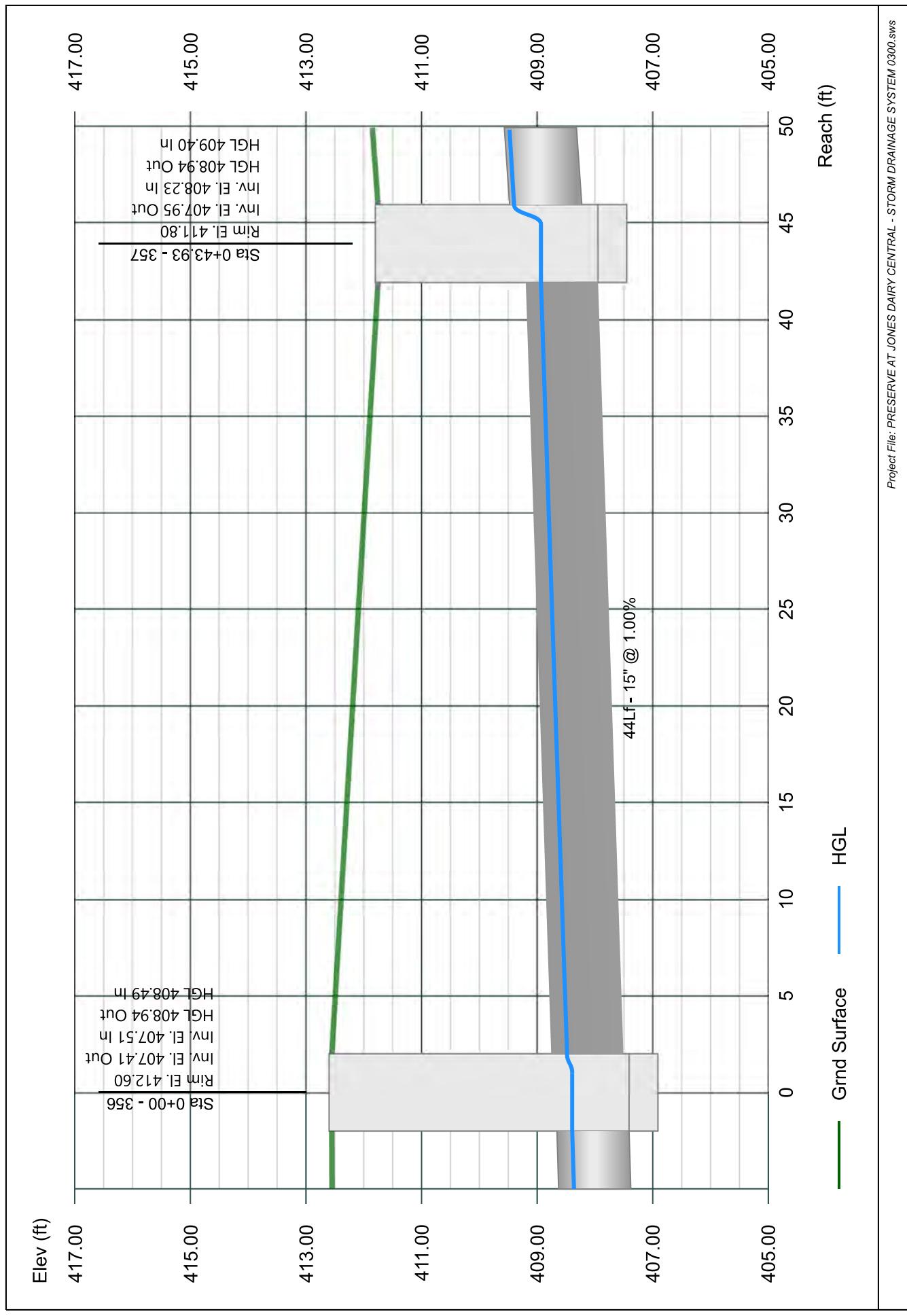


Line 24 - 357 TO 356

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

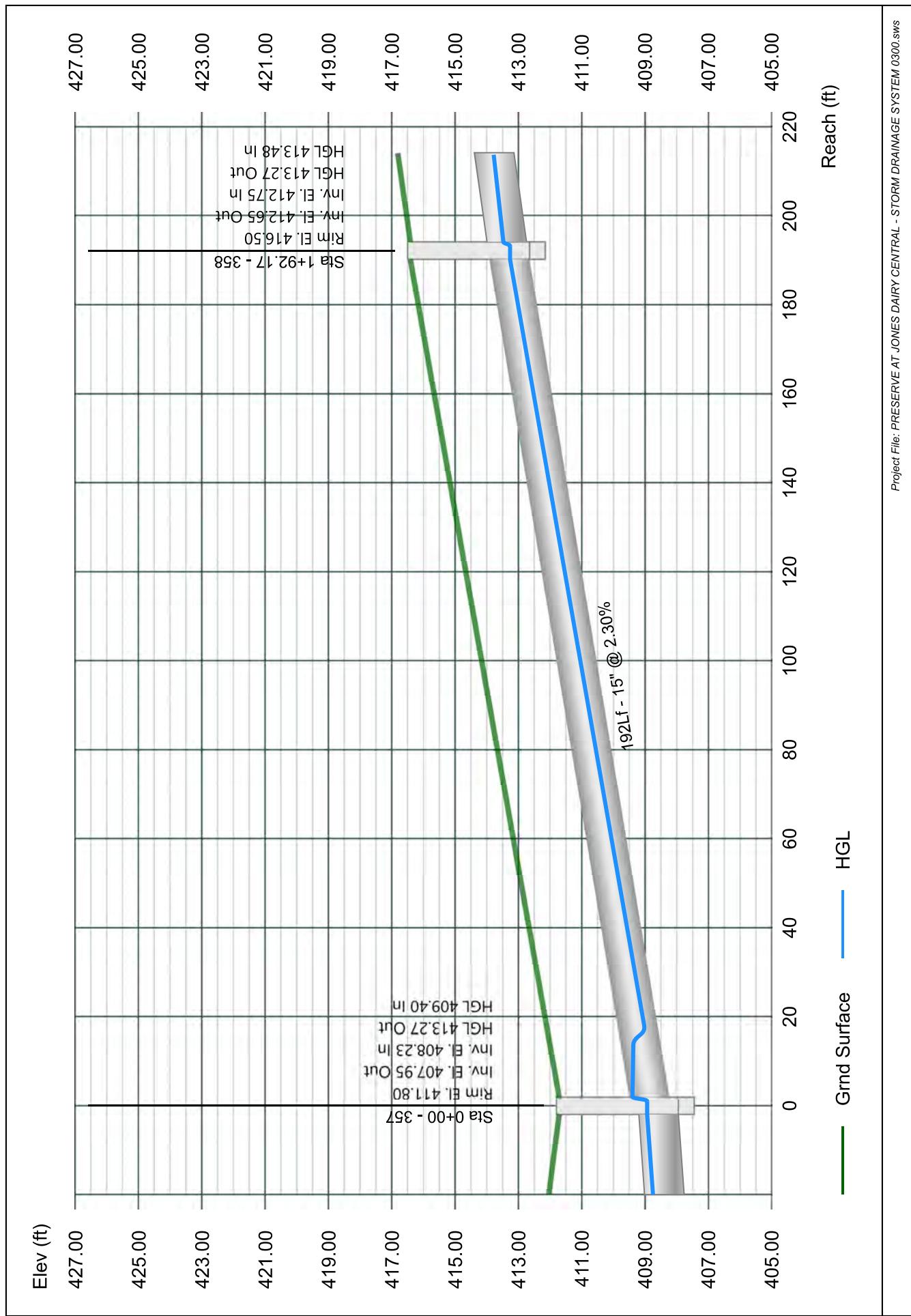


Line 25 - 358 TO 357

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

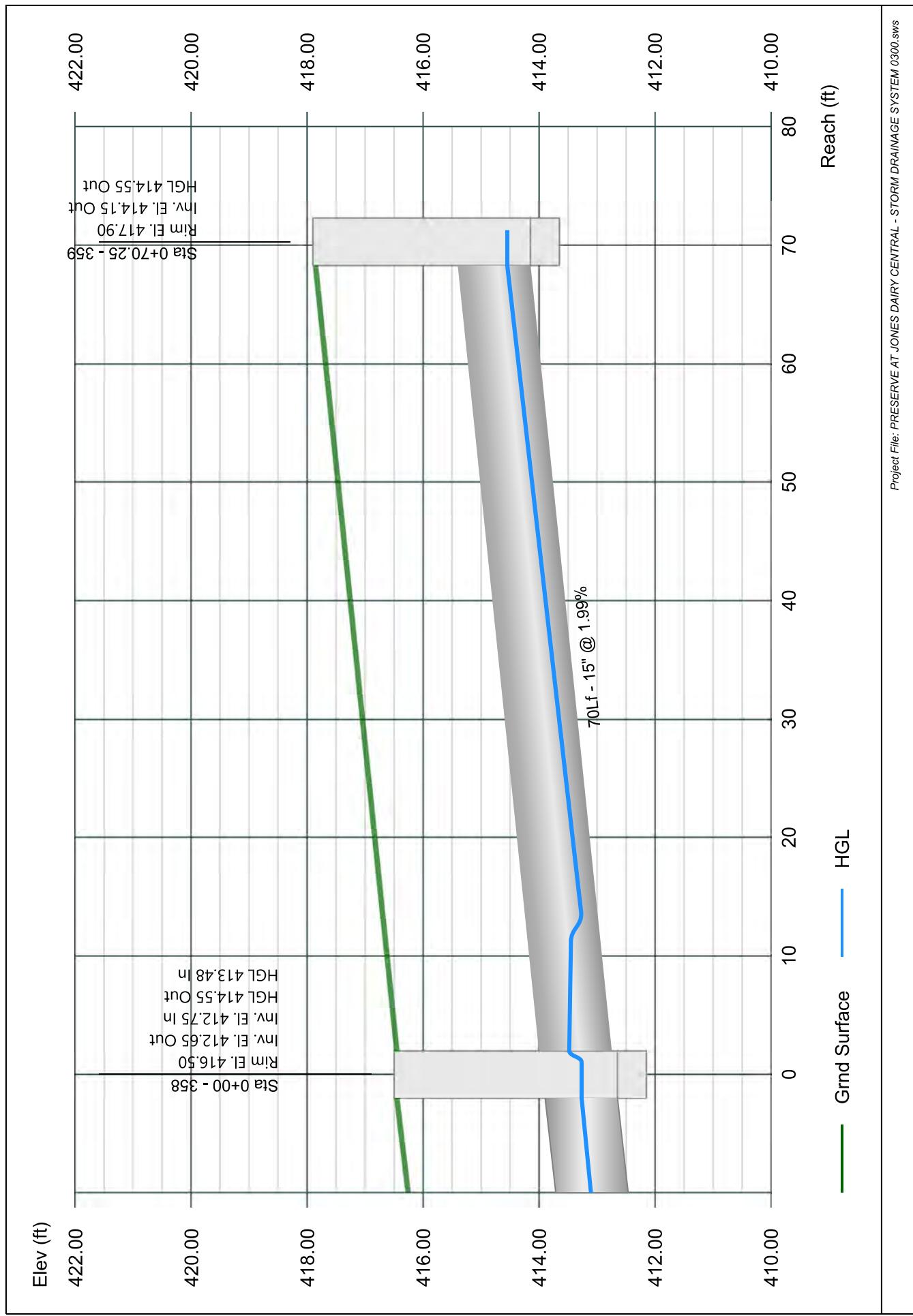


Line 26 - 359 TO 358

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

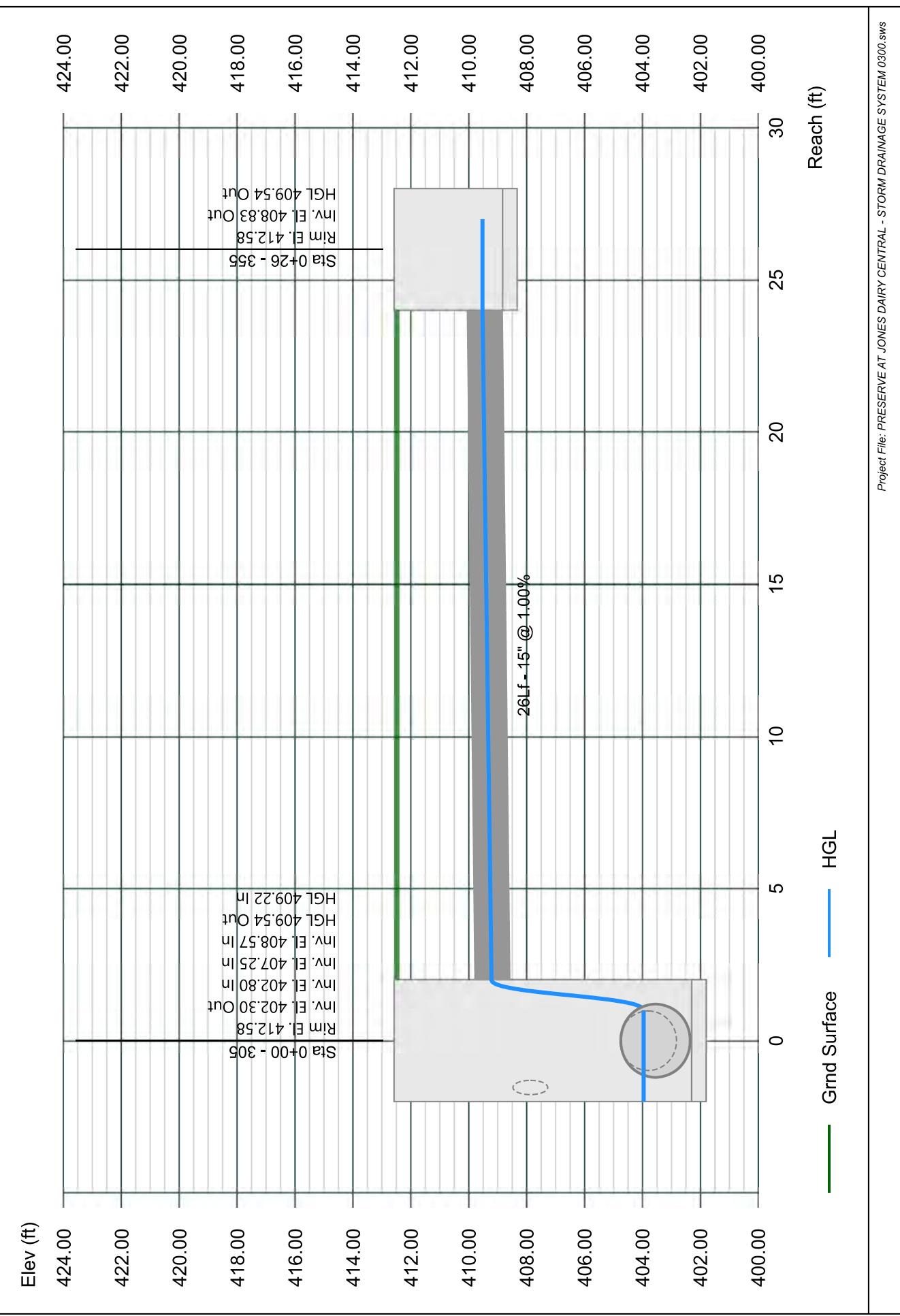


Line 27 - 355 TO 305

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

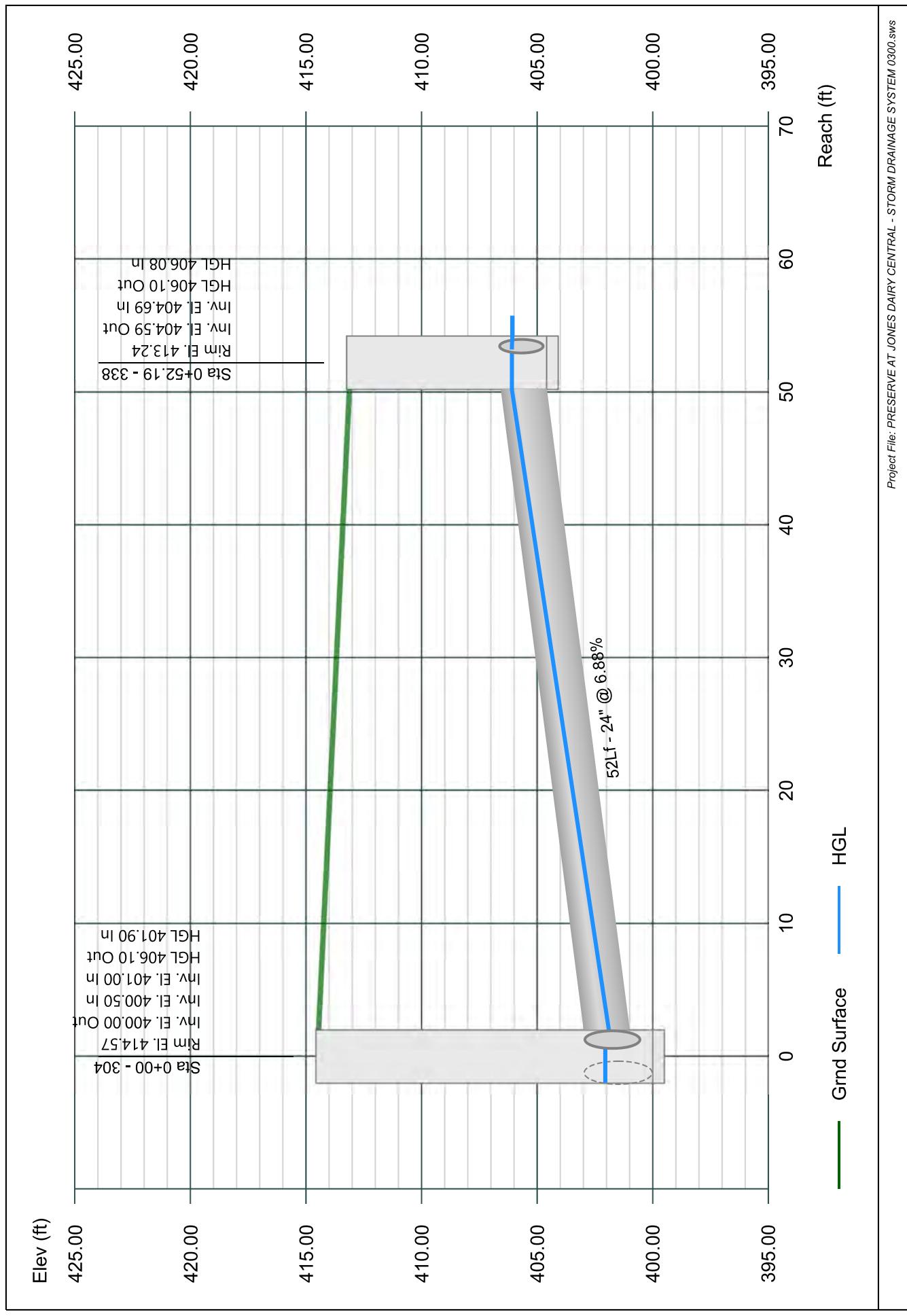


Line 28 - 338 TO 304

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

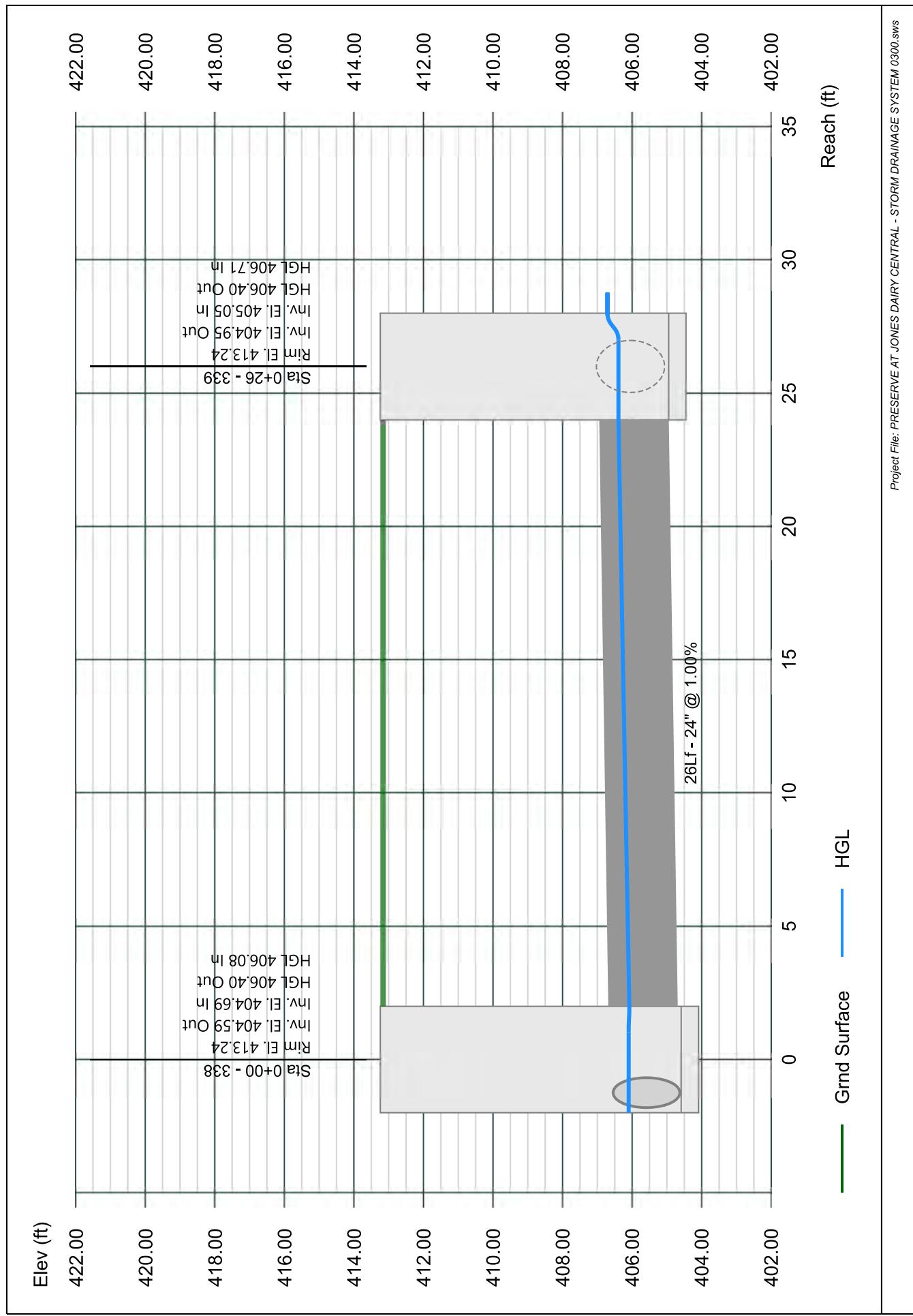


Line 29 - 339 TO 338

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

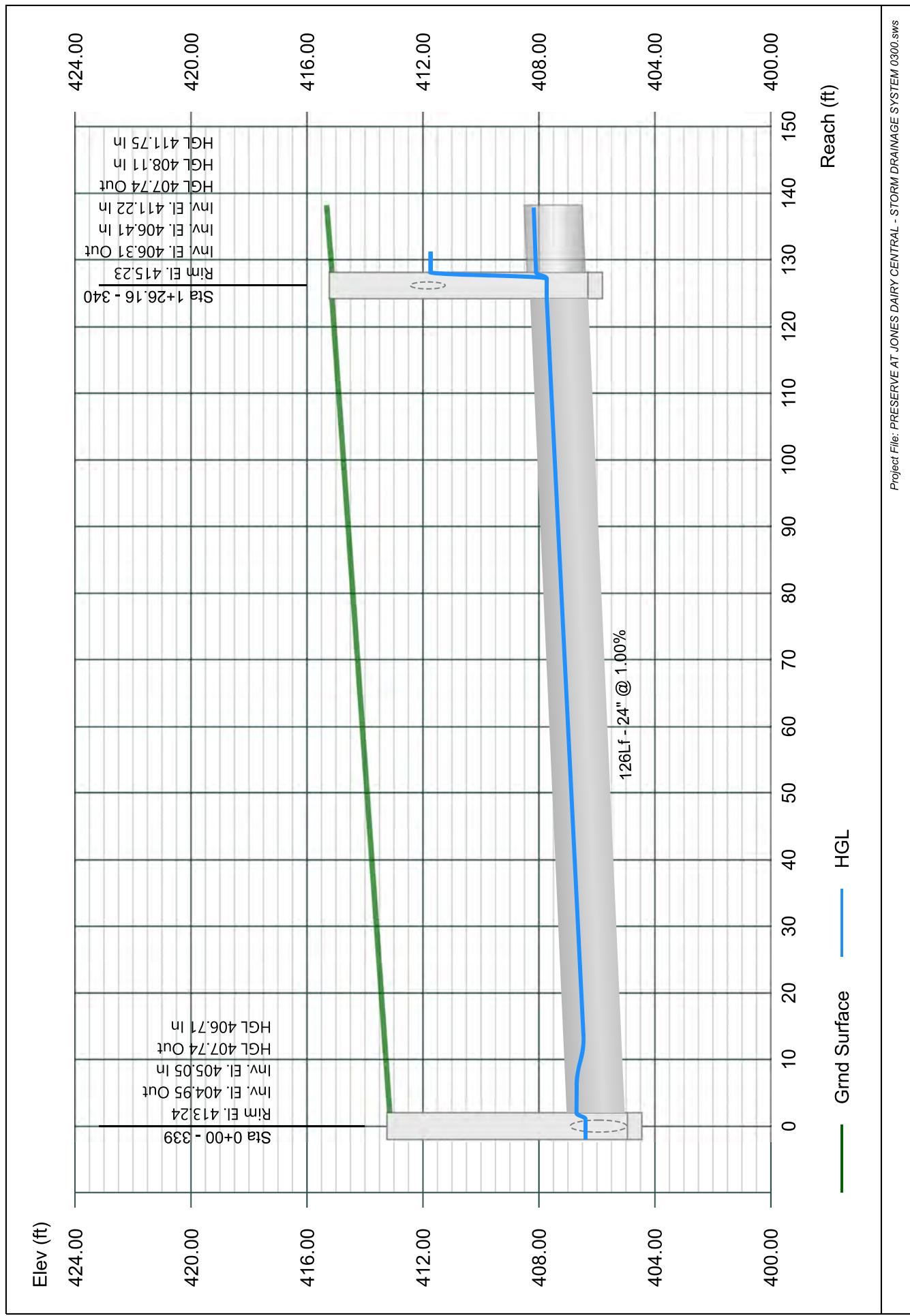


Line 30 - 340 TO 339

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

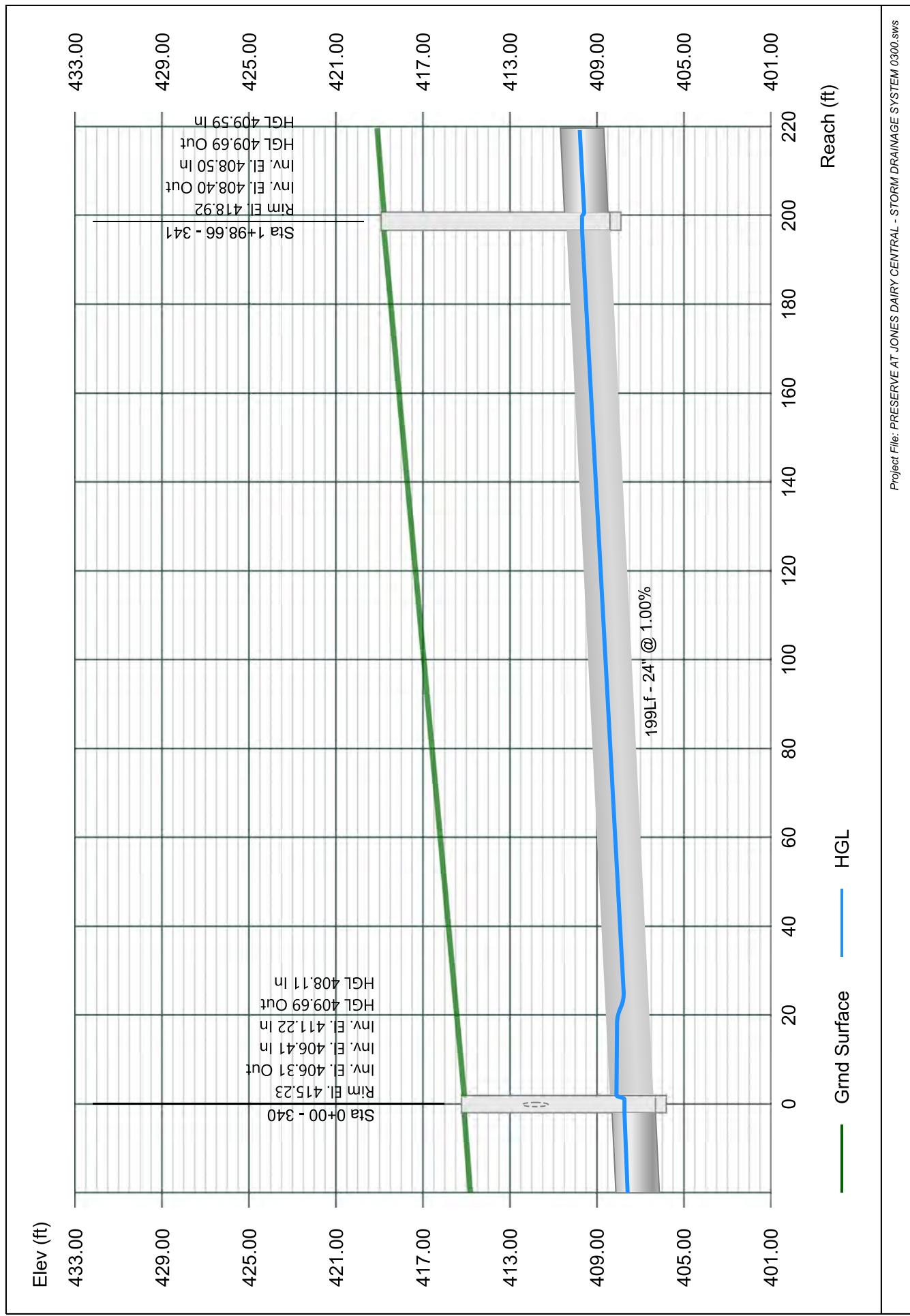


Line 31 - 341 TO 340

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

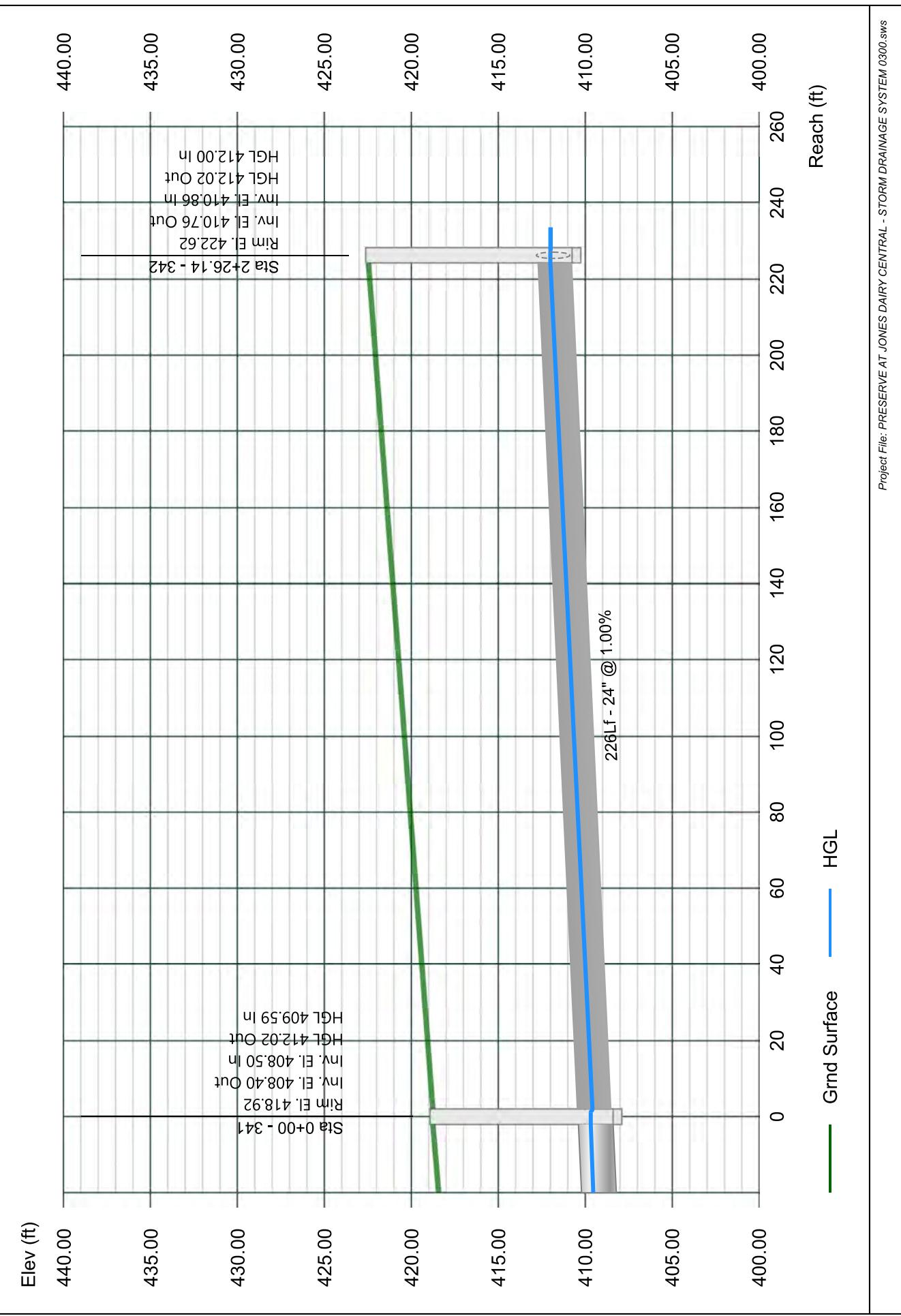


Line 32 - 342 TO 341

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

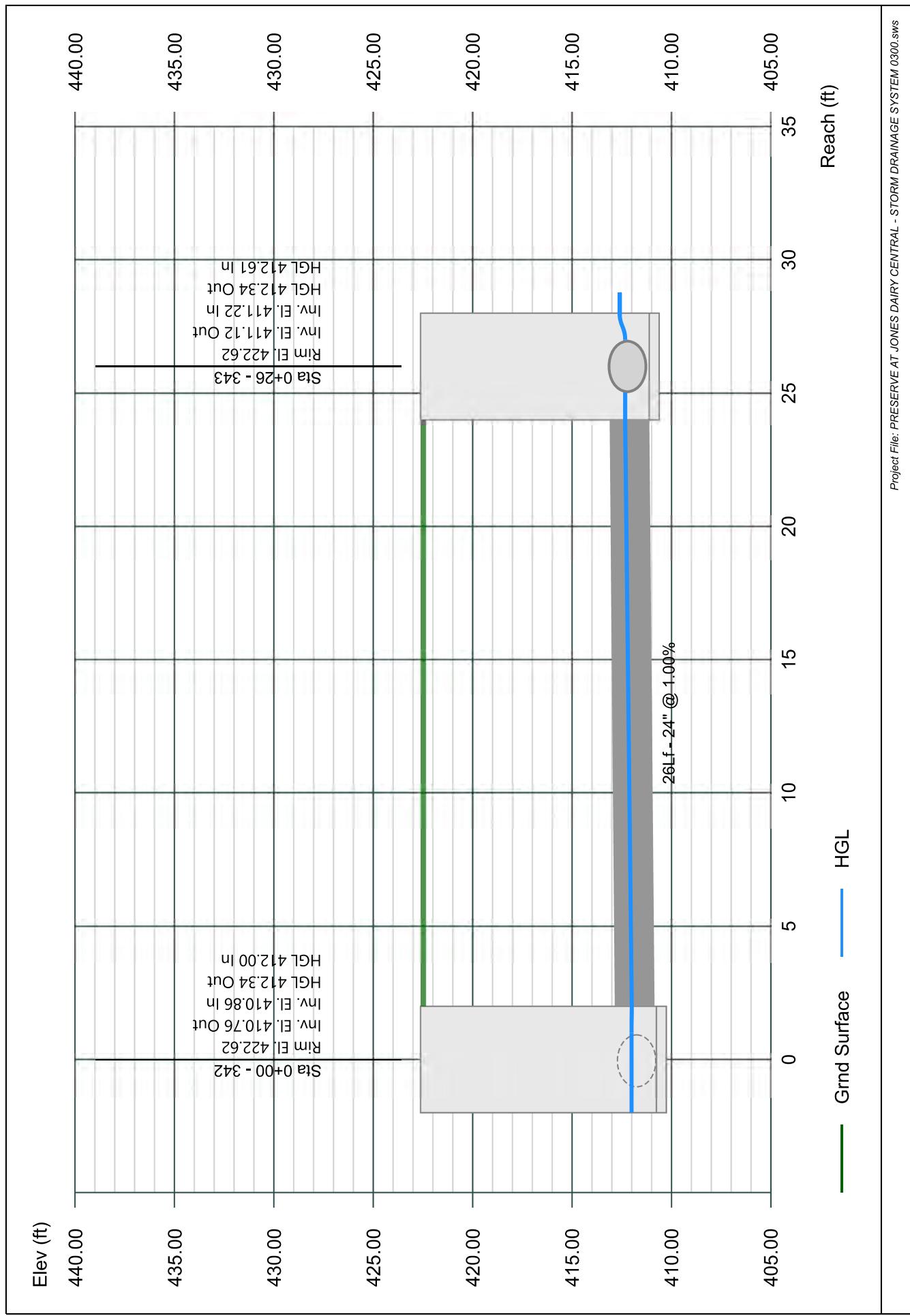


Line 33 - 343 TO 342

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

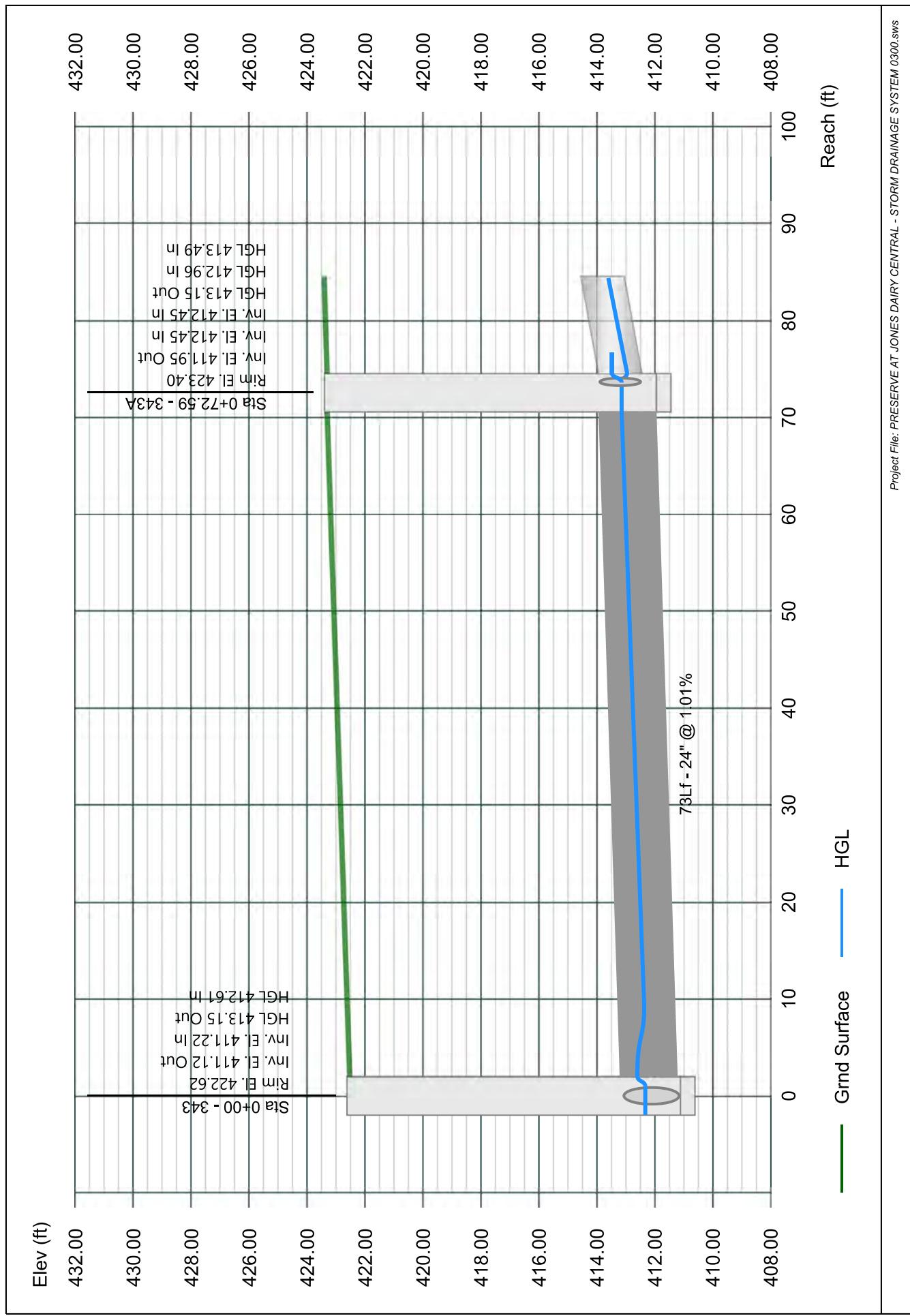


Line 34 - 343A TO 343

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

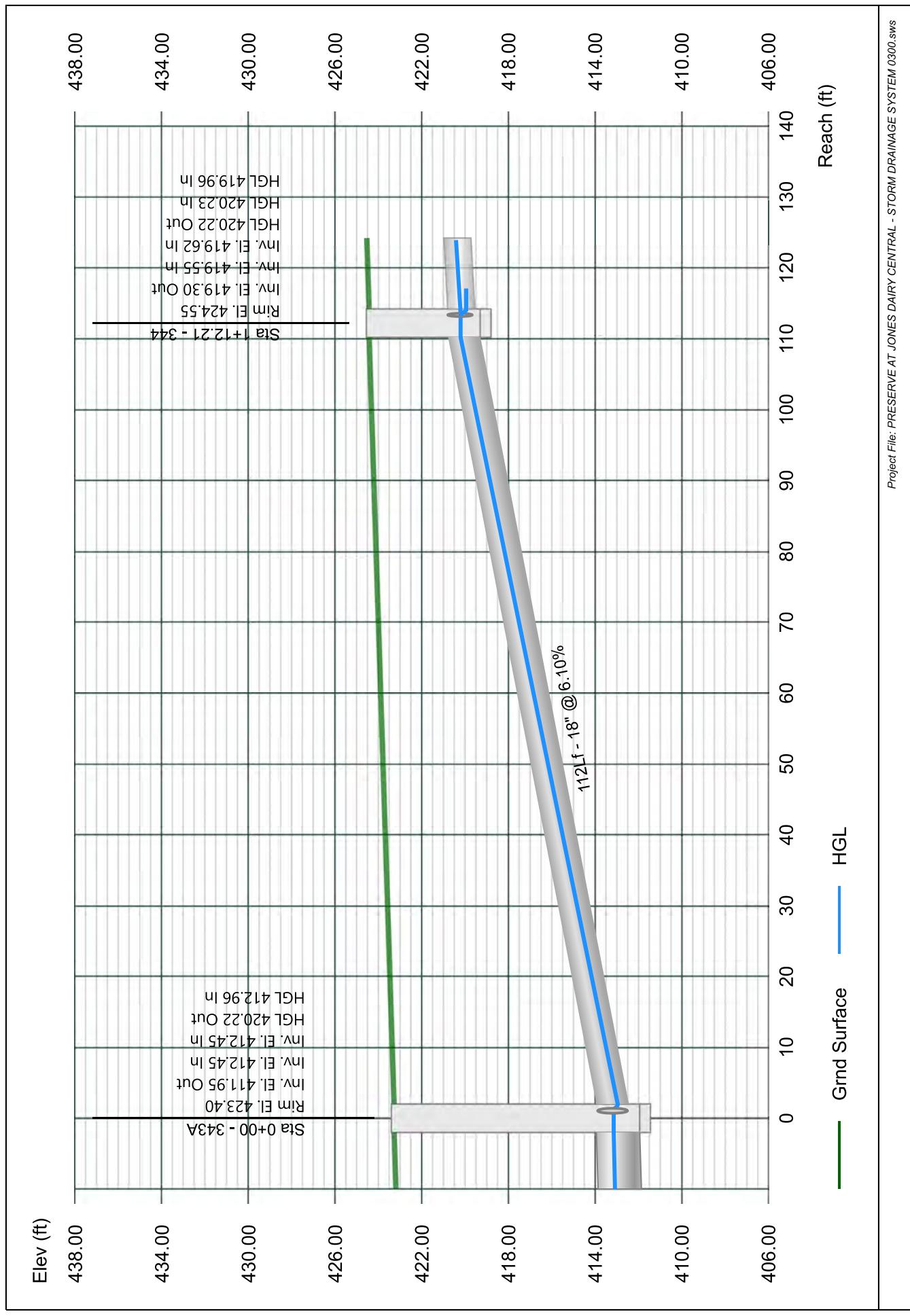


Line 35 - 344 TO 343

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

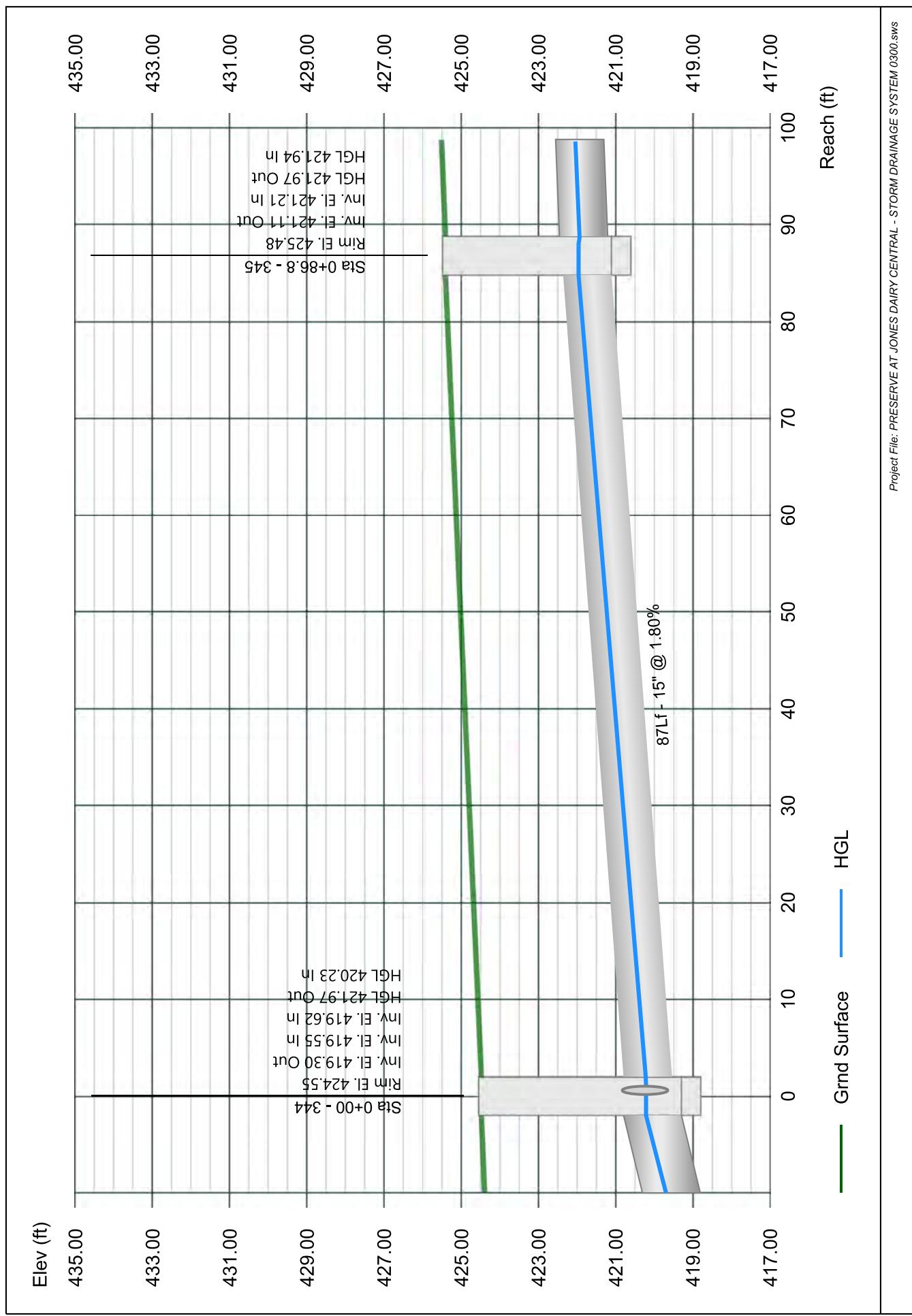


Line 36 - 345 TO 344

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

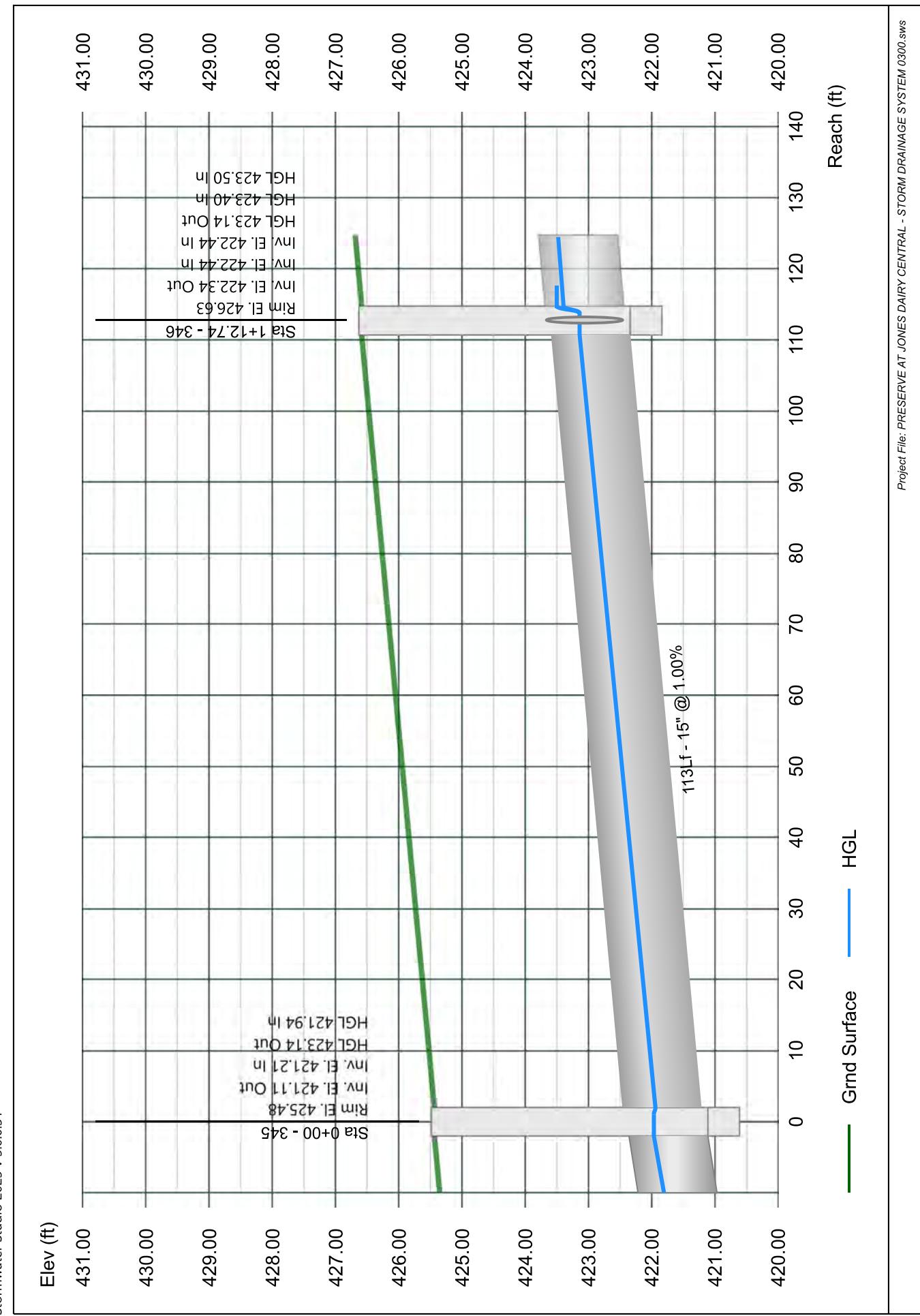


Line 37 - 346 TO 345

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

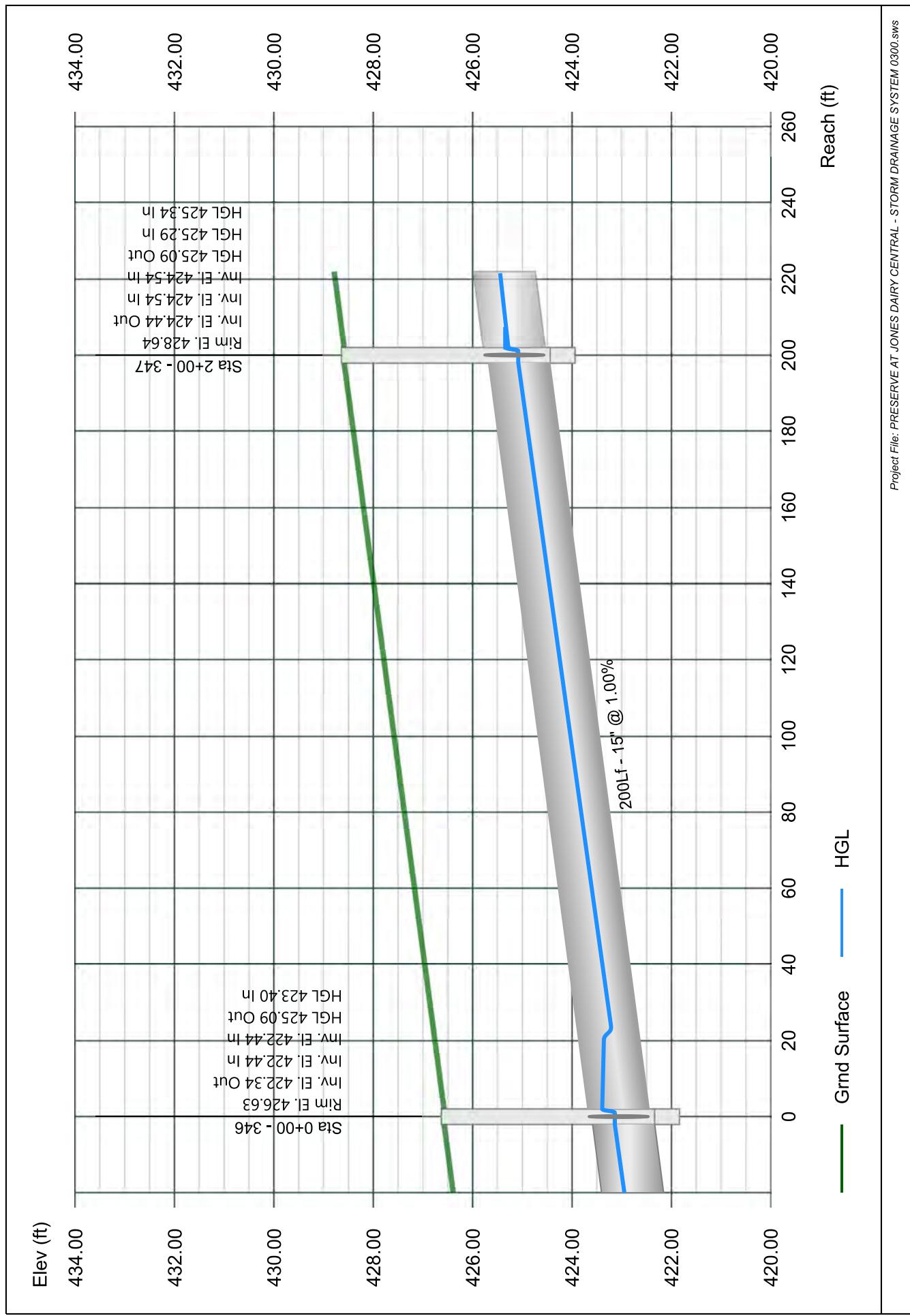


Line 38 - 347 TO 346

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

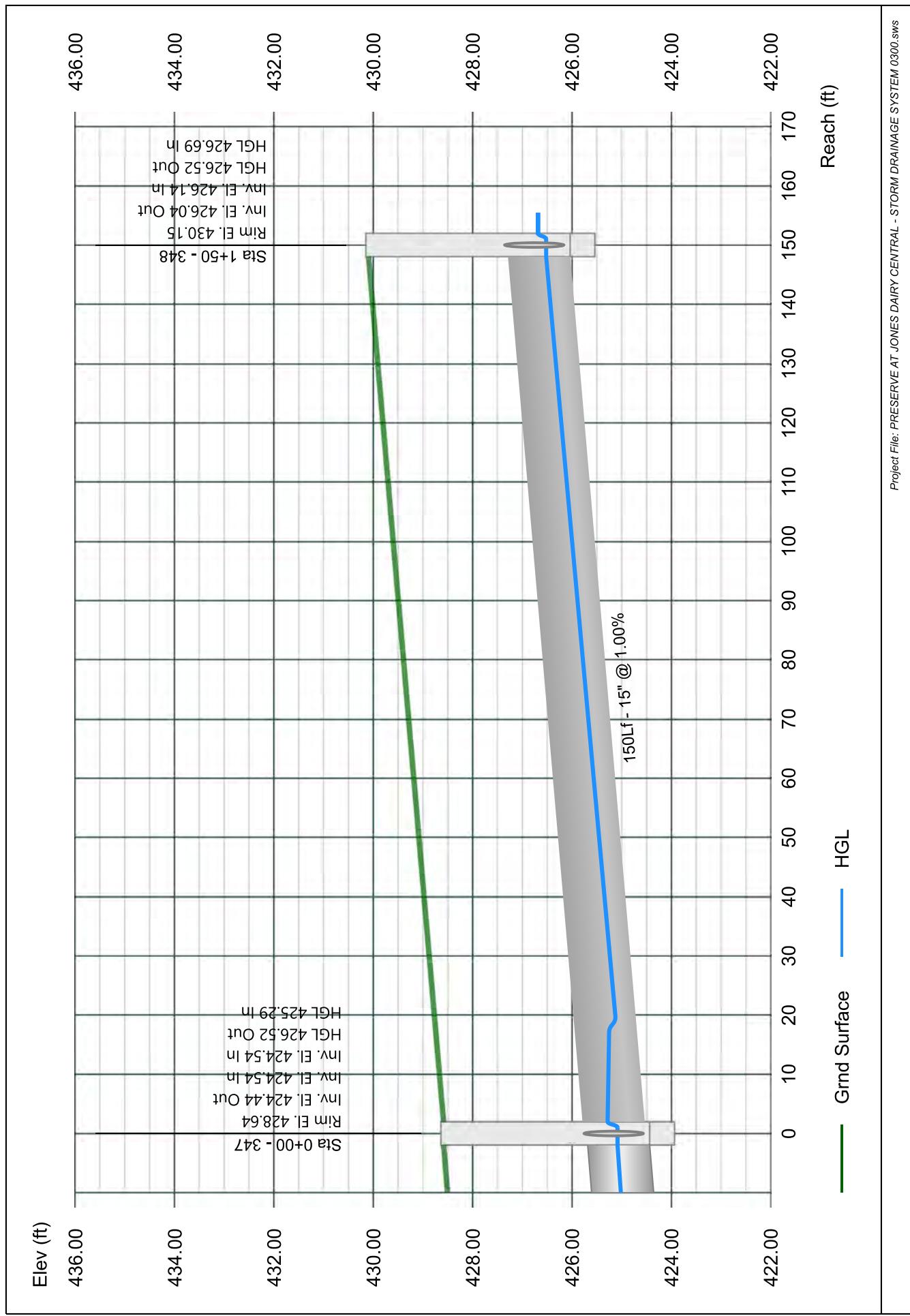


Line 39 - 348 TO 347

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

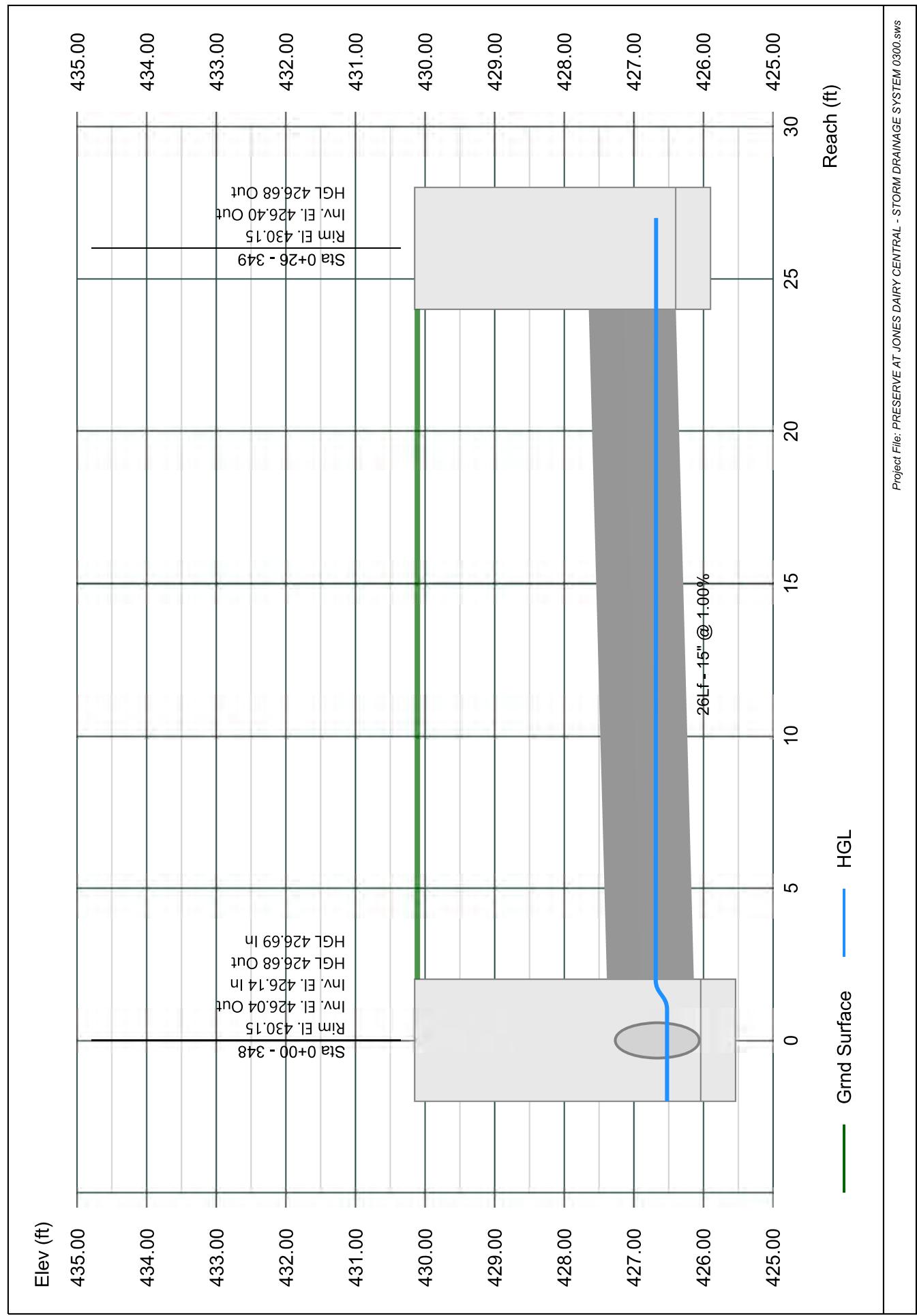


Line 40 - 349 TO 348

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

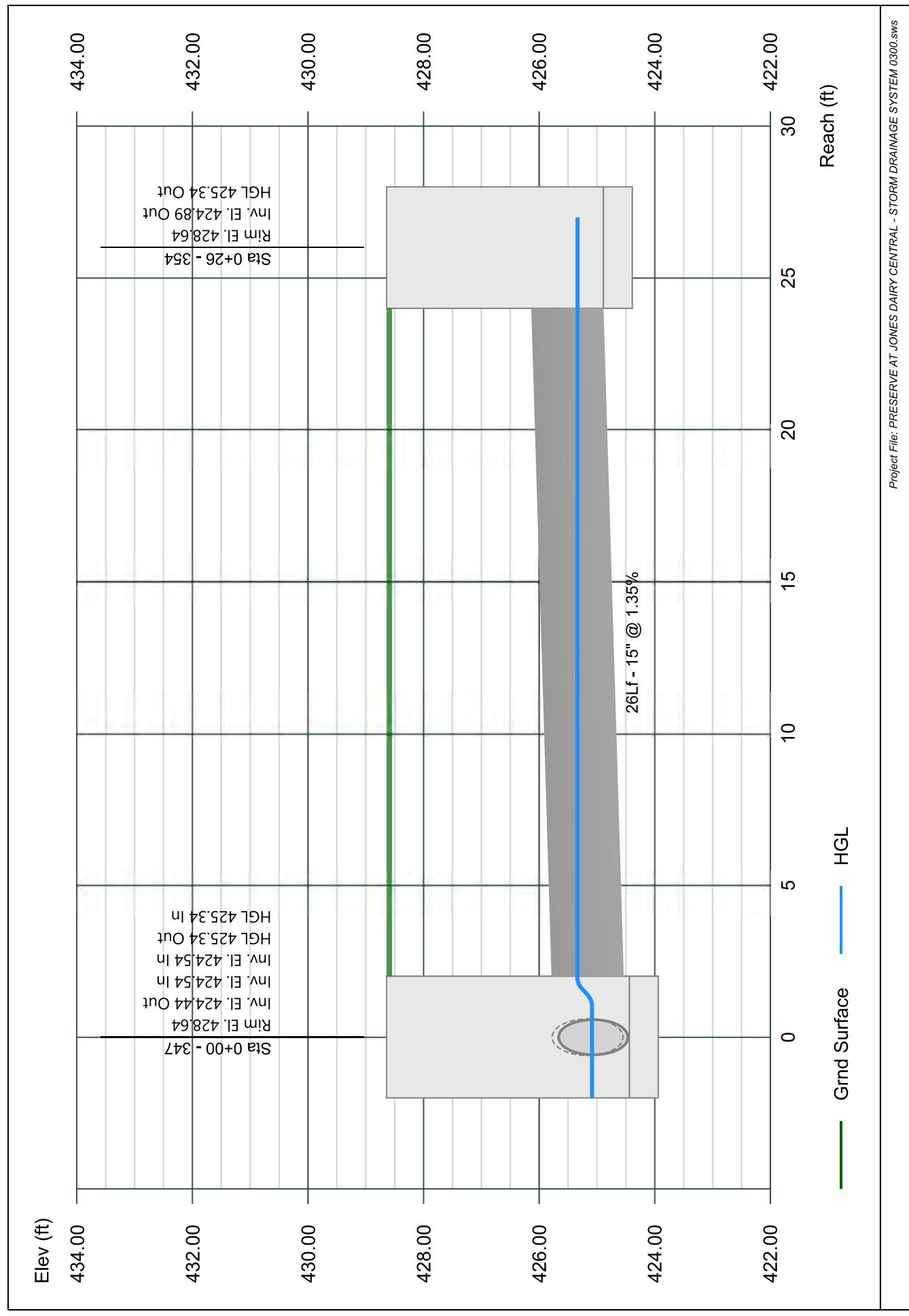


Line 41 - 354 TO 347

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

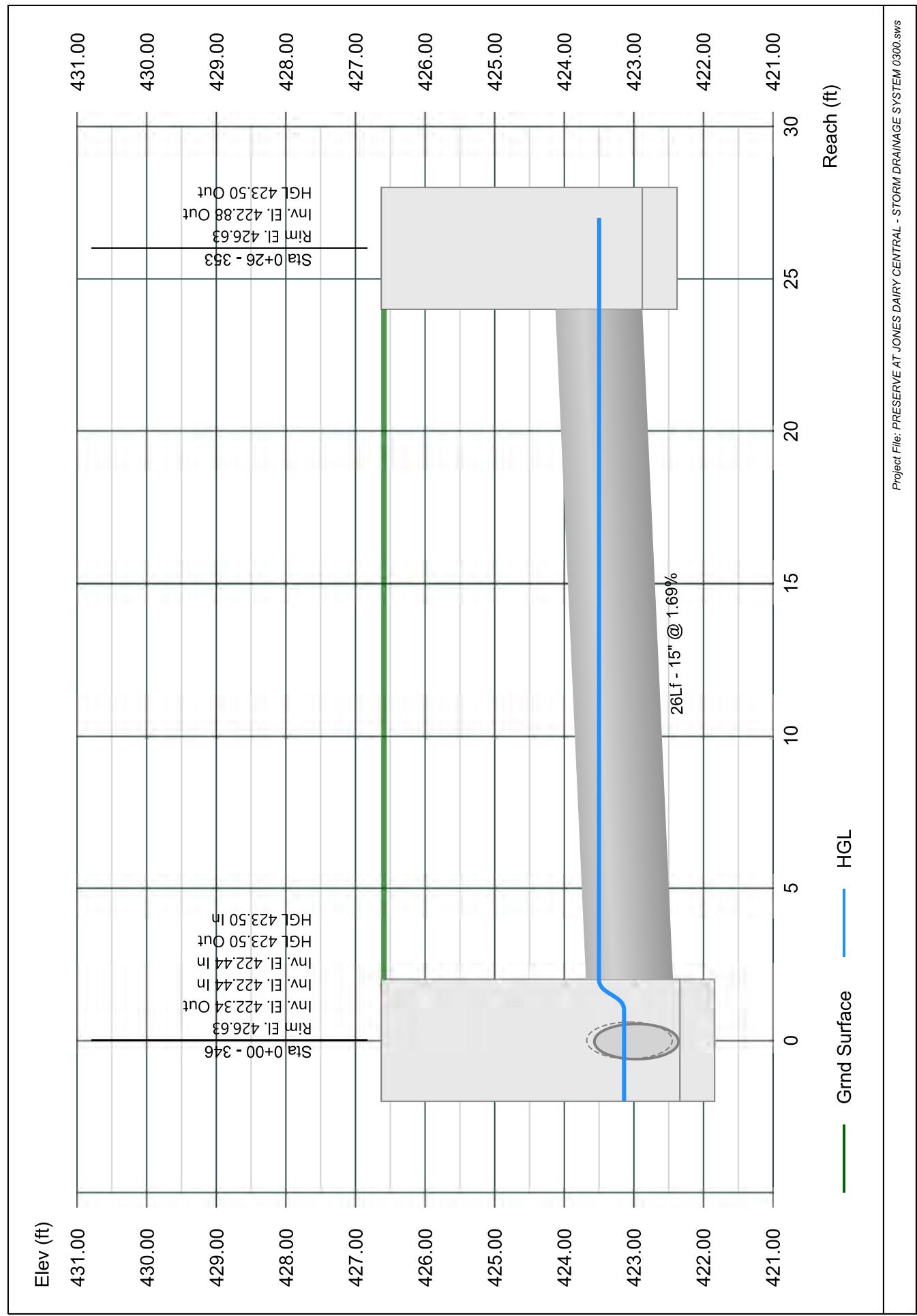


Line 42 - 353 TO 346

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

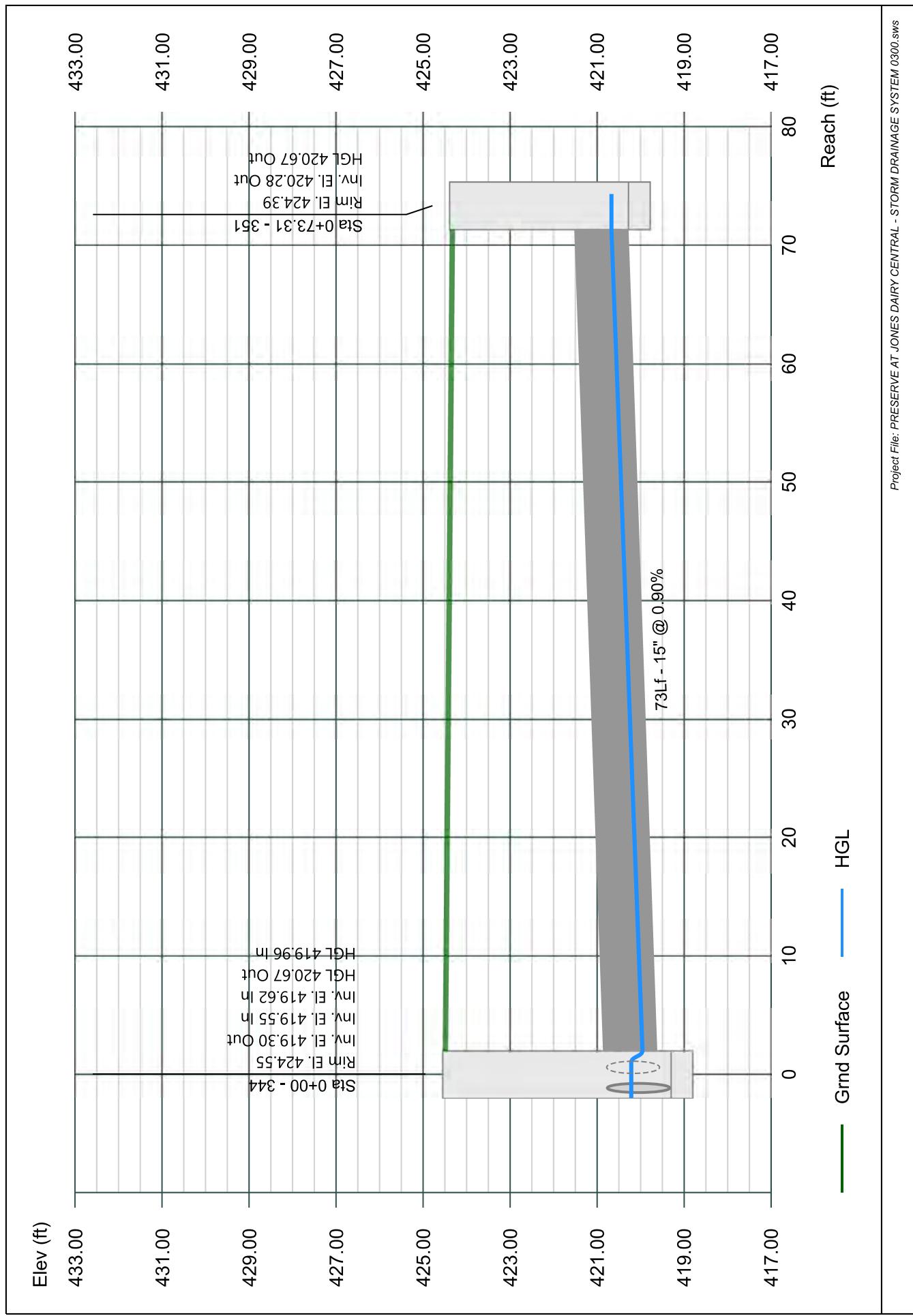


Line 43 - 351 TO 344

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

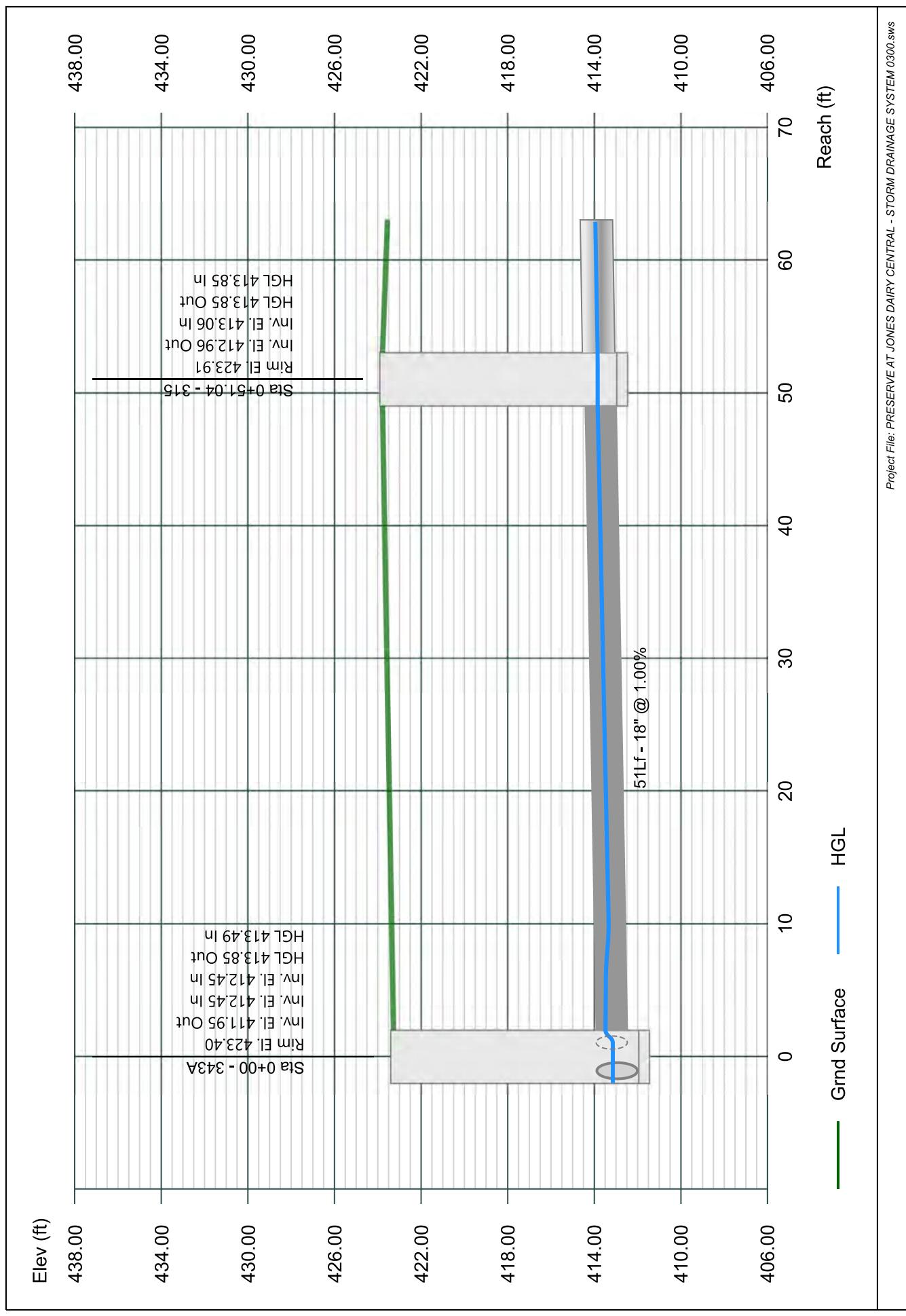


Line 44 - 315 TO 343A

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

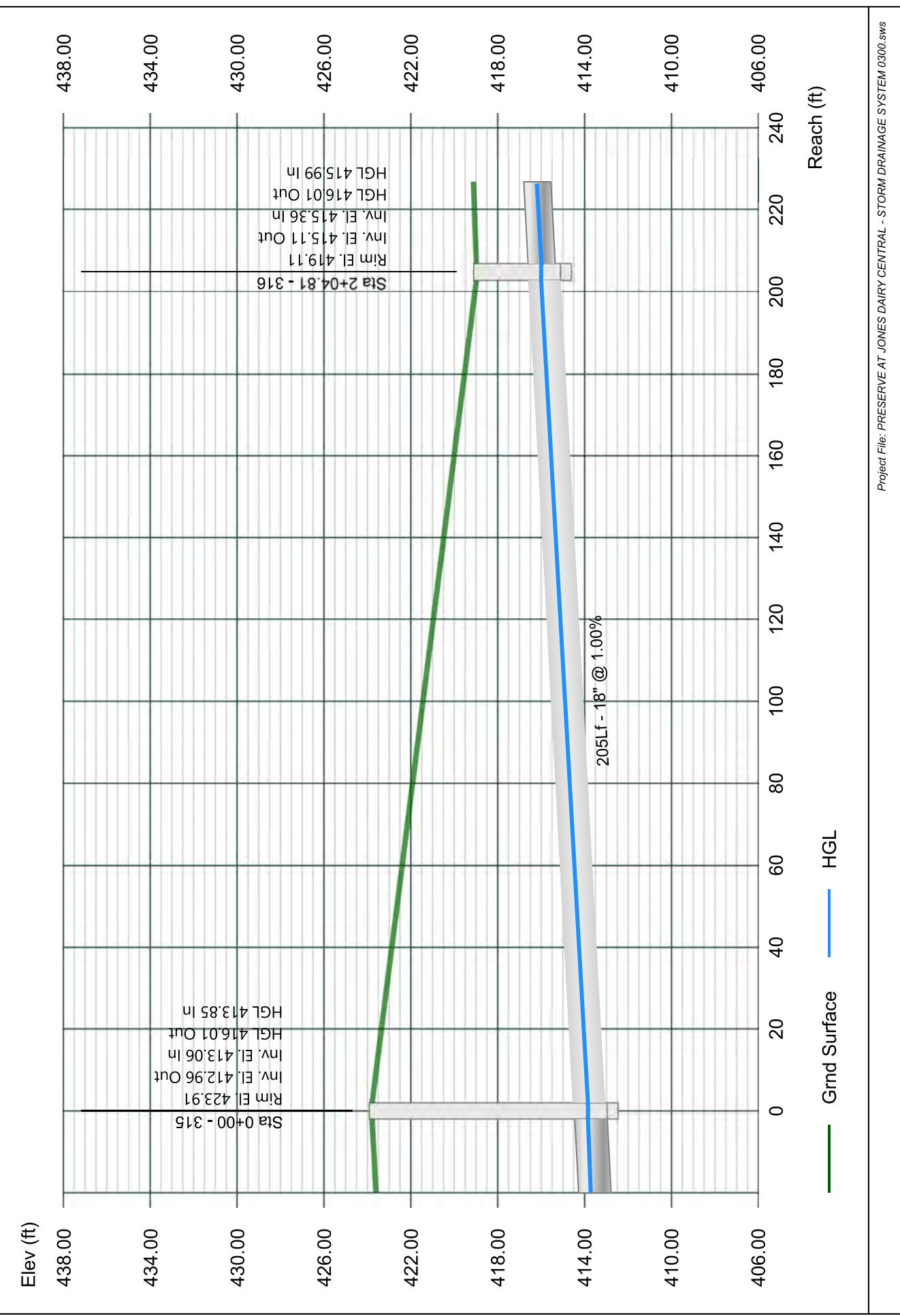


Line 45 - 316 TO 315

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

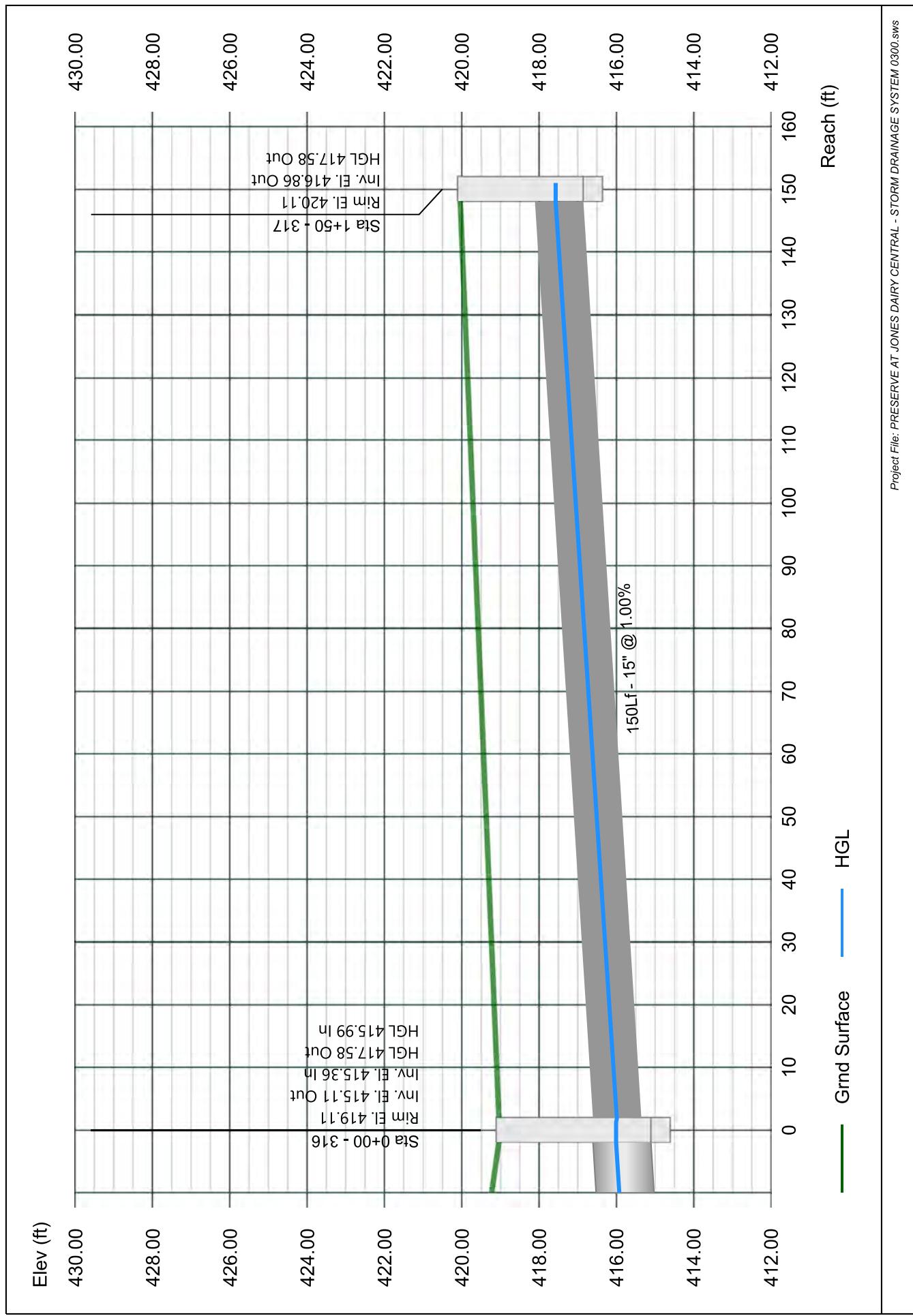


Line 46 - 317 TO 316

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

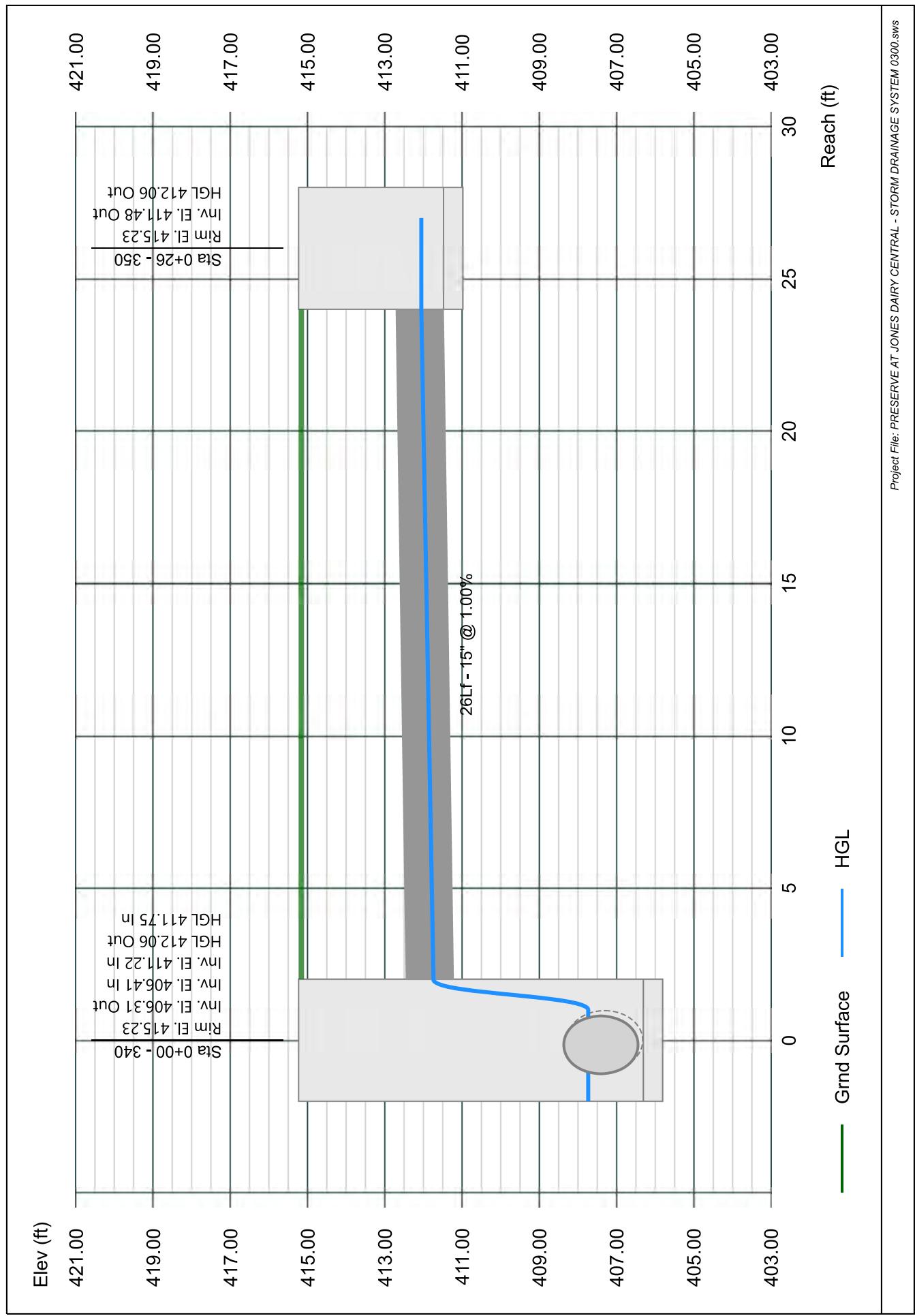


Line 47 - 350 TO 340

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

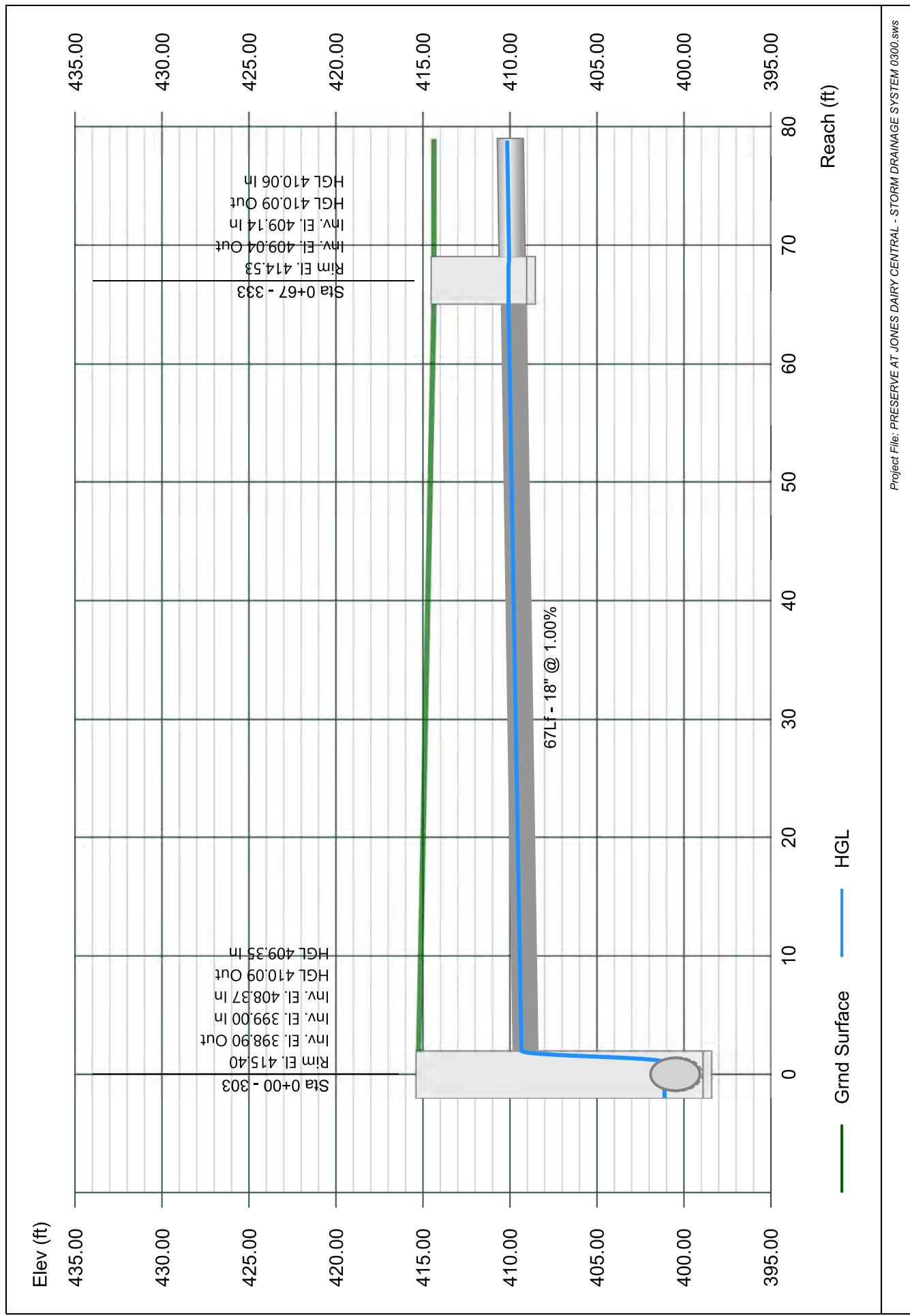


Line 48 - 333 TO 303

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

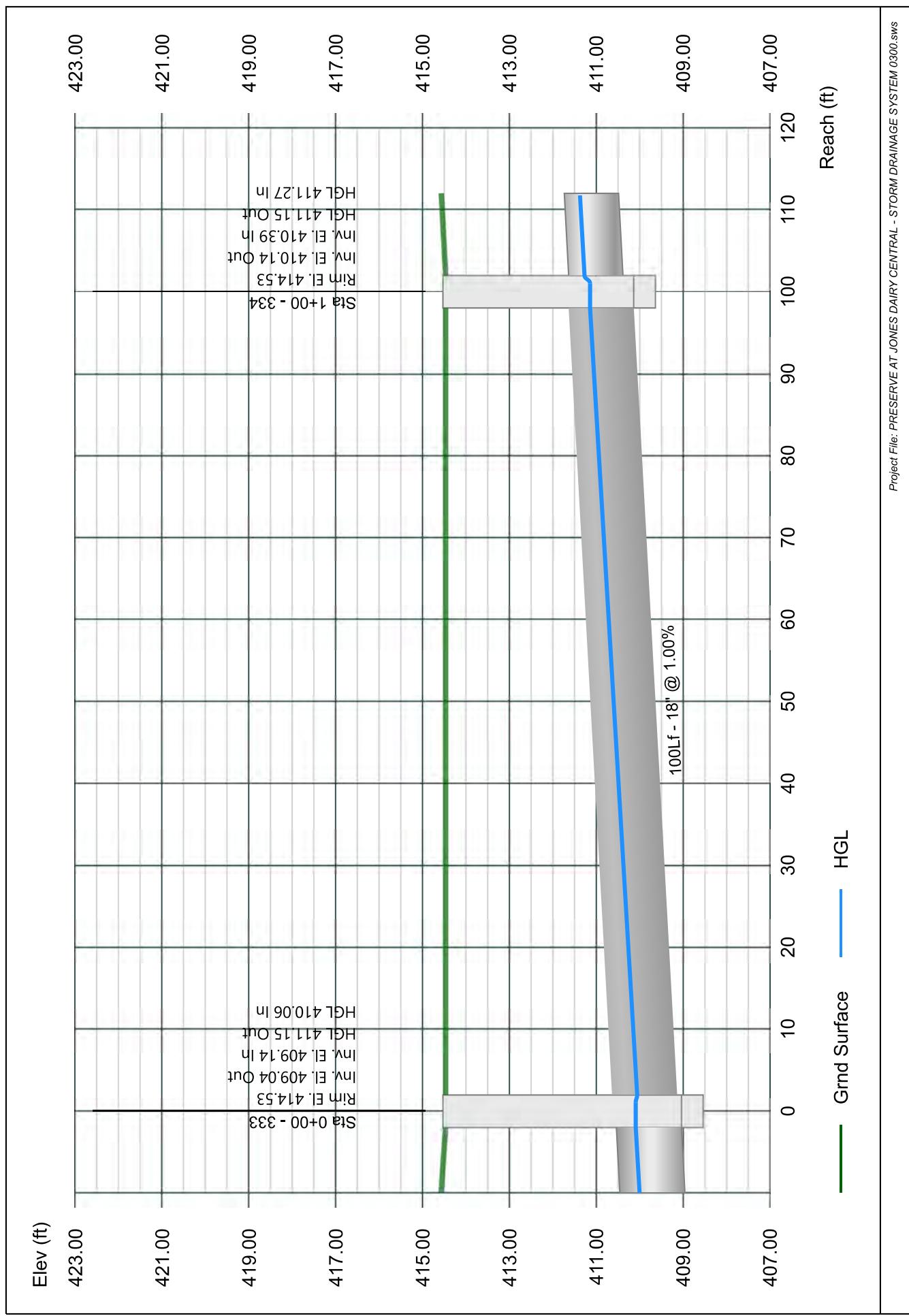


Line 49 - 334 TO 333

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

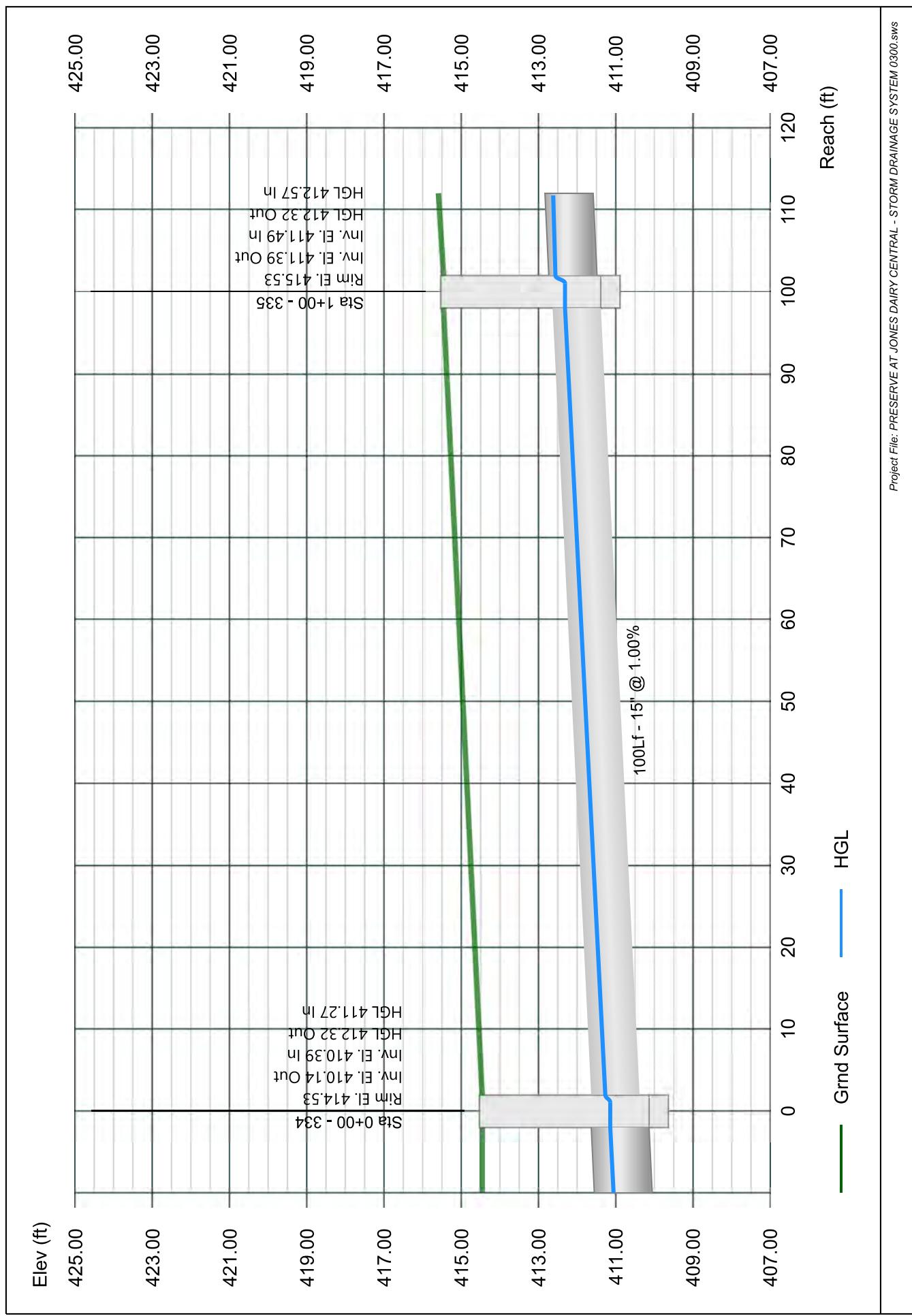


Line 50 - 335 TO 334

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

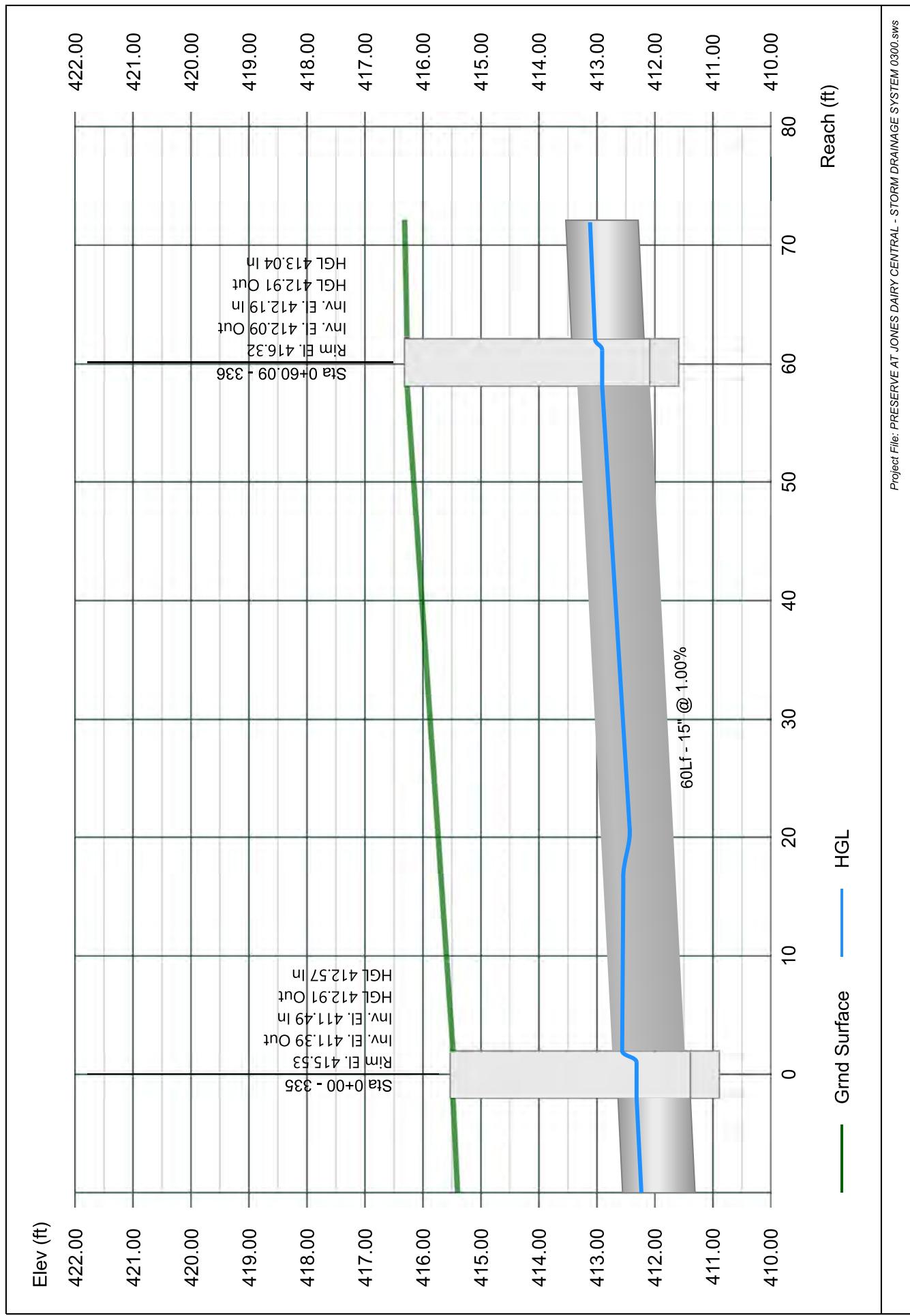


Line 51 - 336 TO 335

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

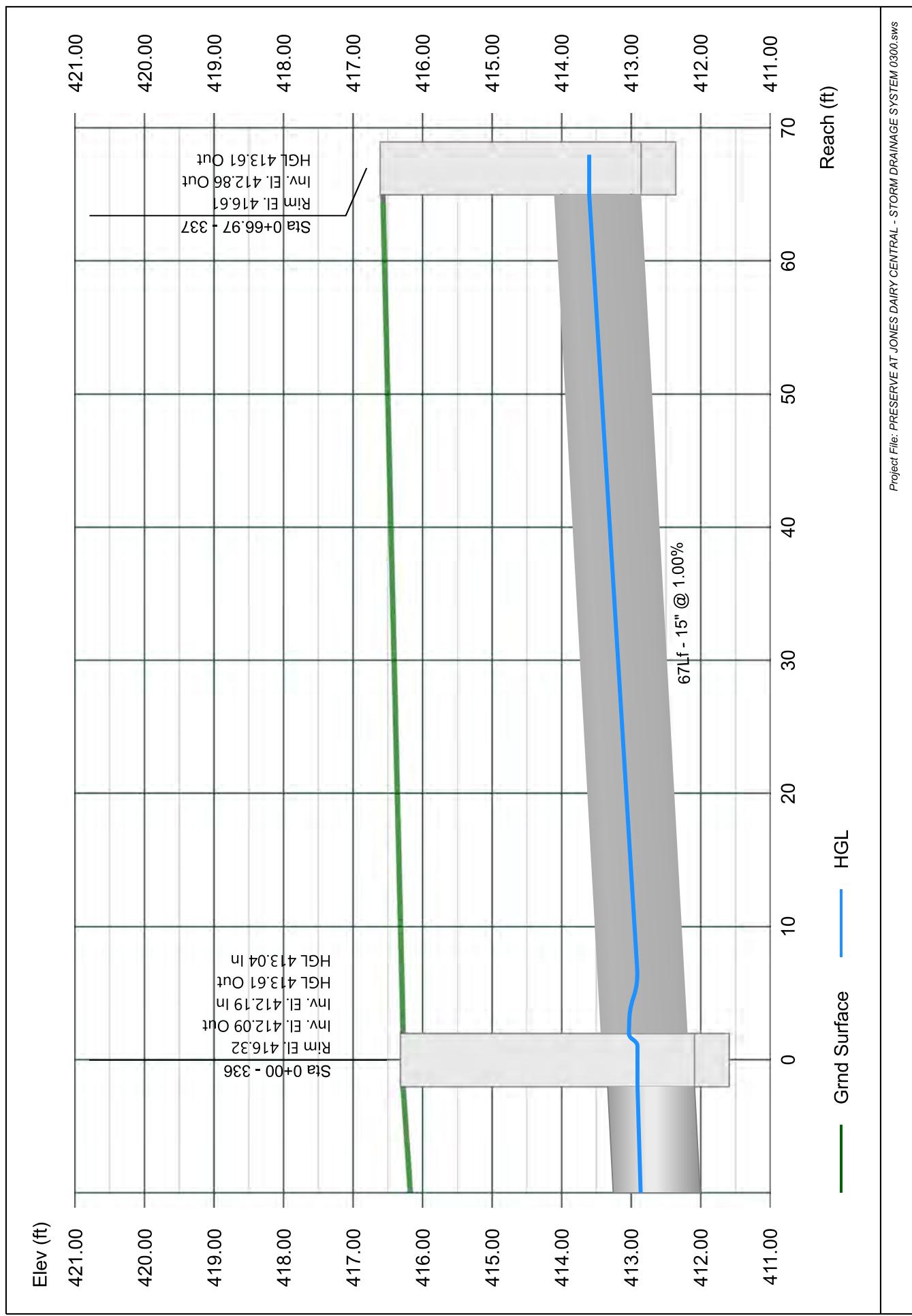


Line 52 - 337 TO 336

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

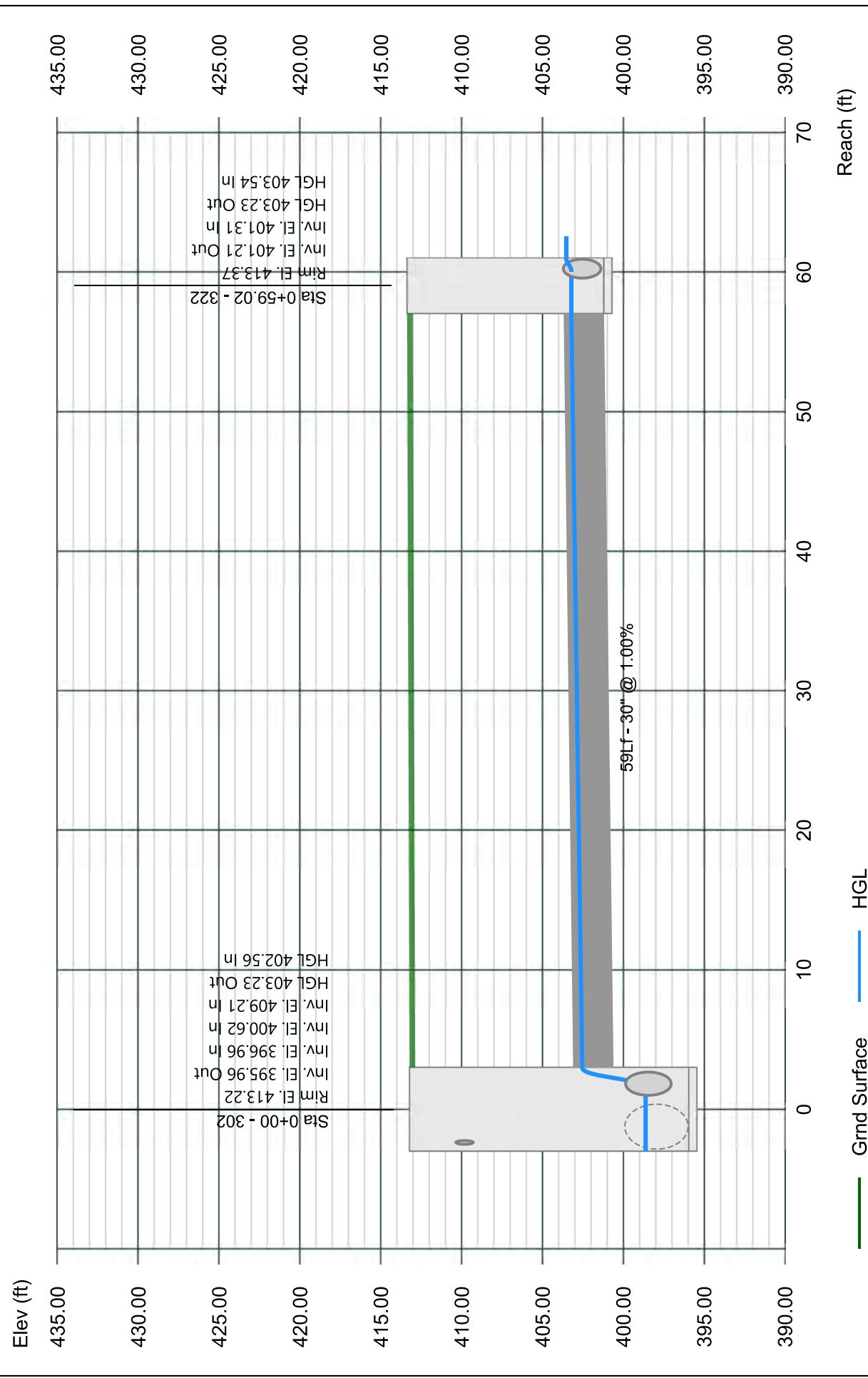


Line 53 - 322 TO 302

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

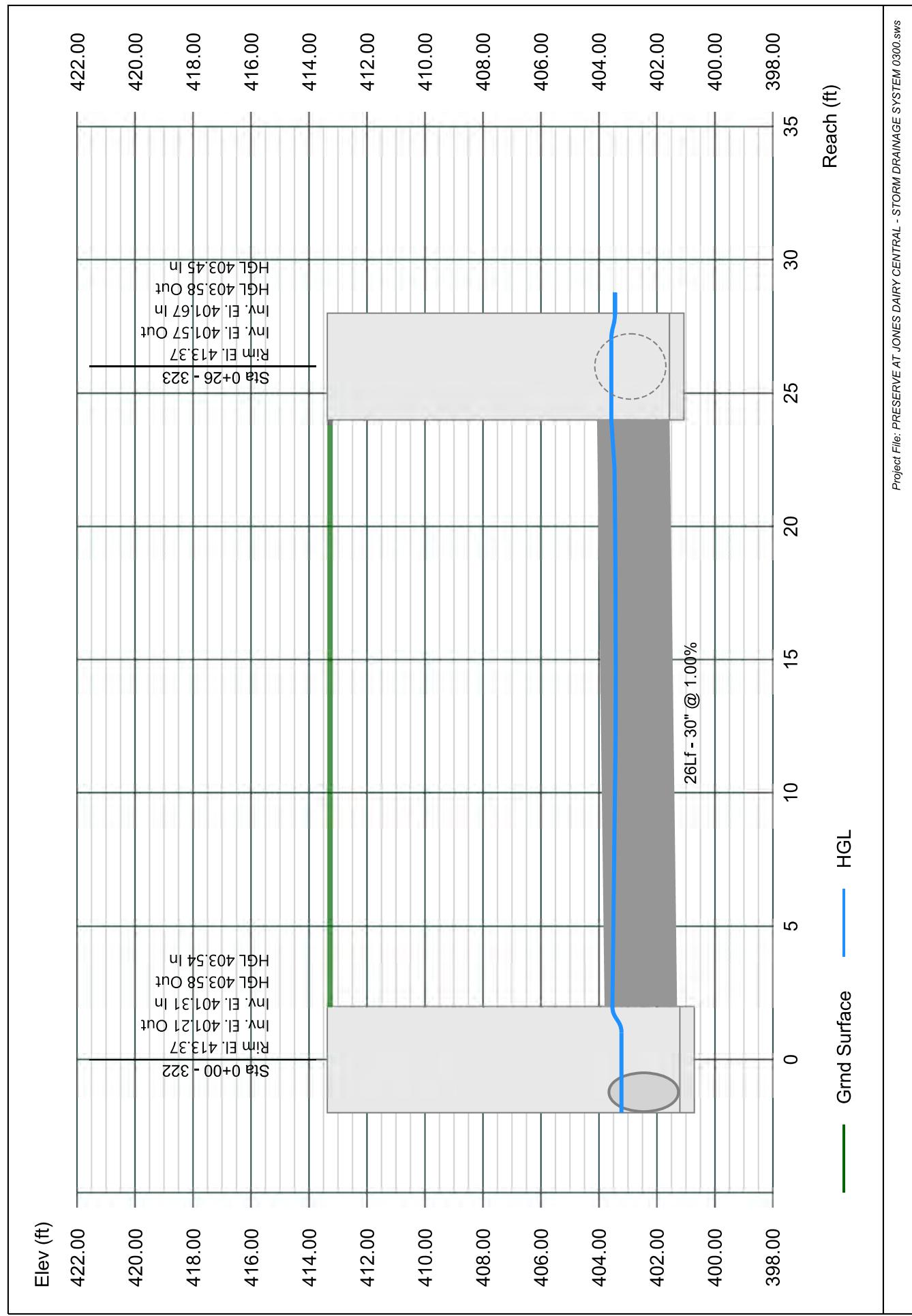


Line 54 - 323 TO 322

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

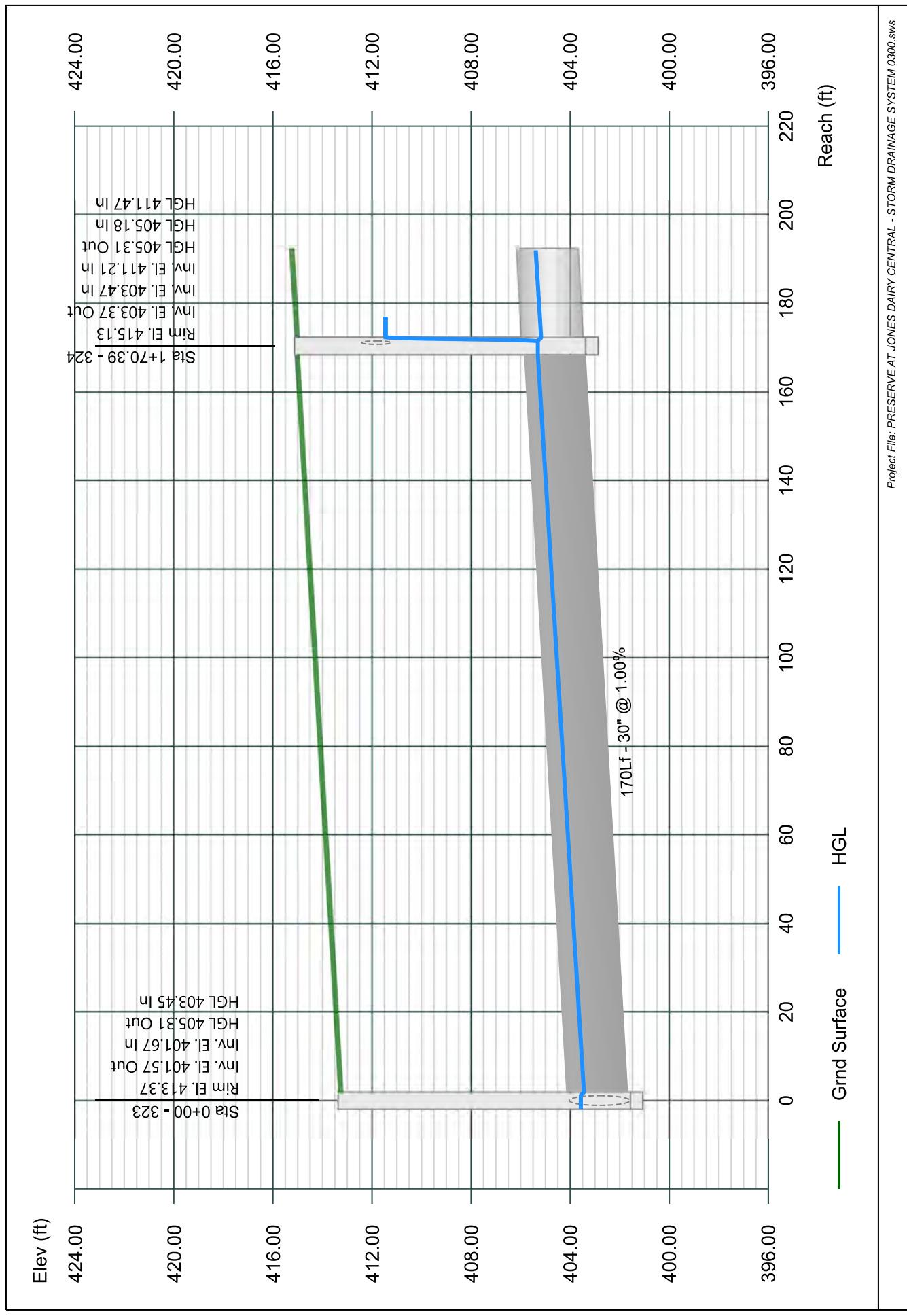


Line 55 - 324 TO 323

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

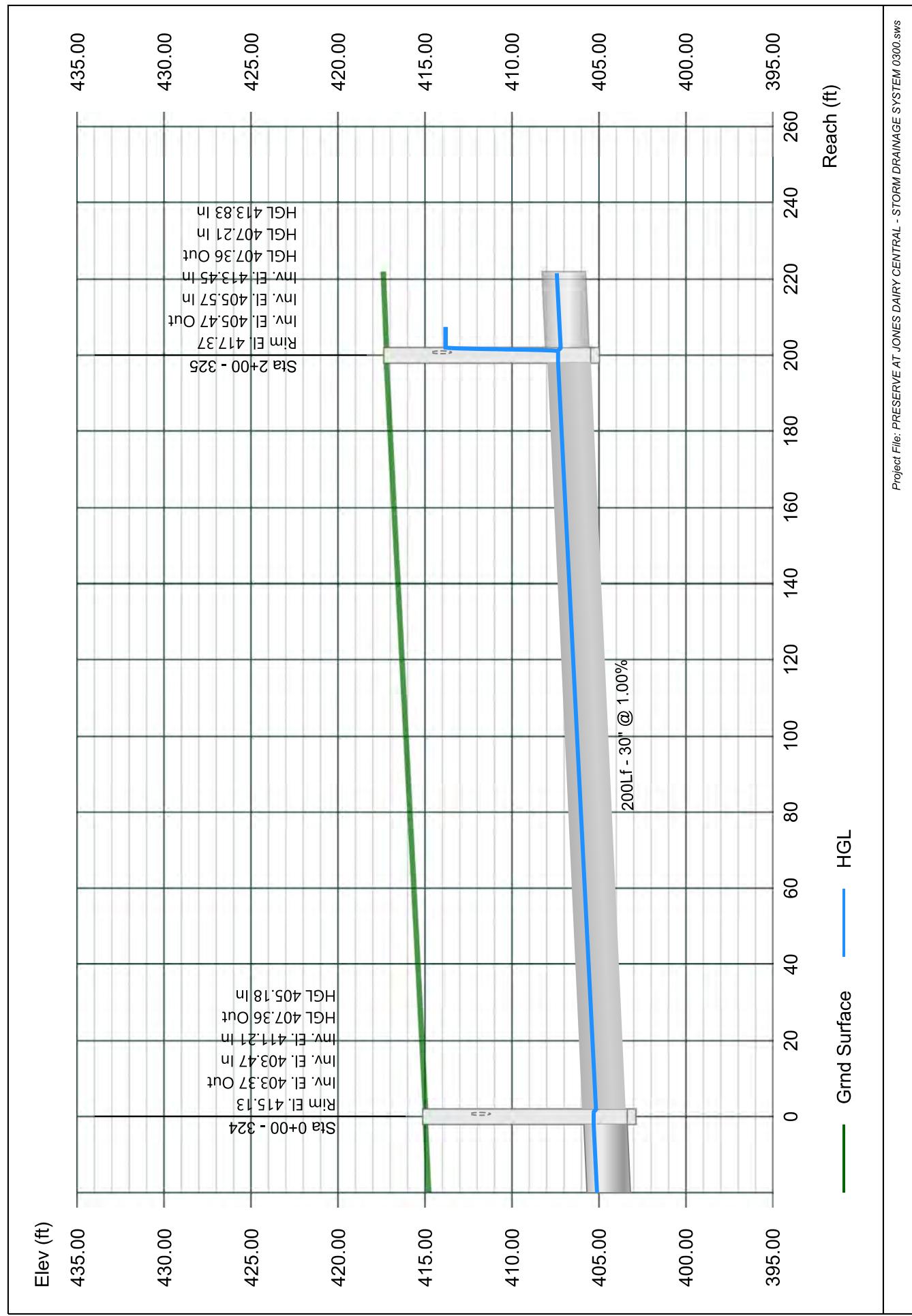
05-03-2023



Line 56 - 325 TO 324

Project Name: Enter Project Name...

05-03-2023

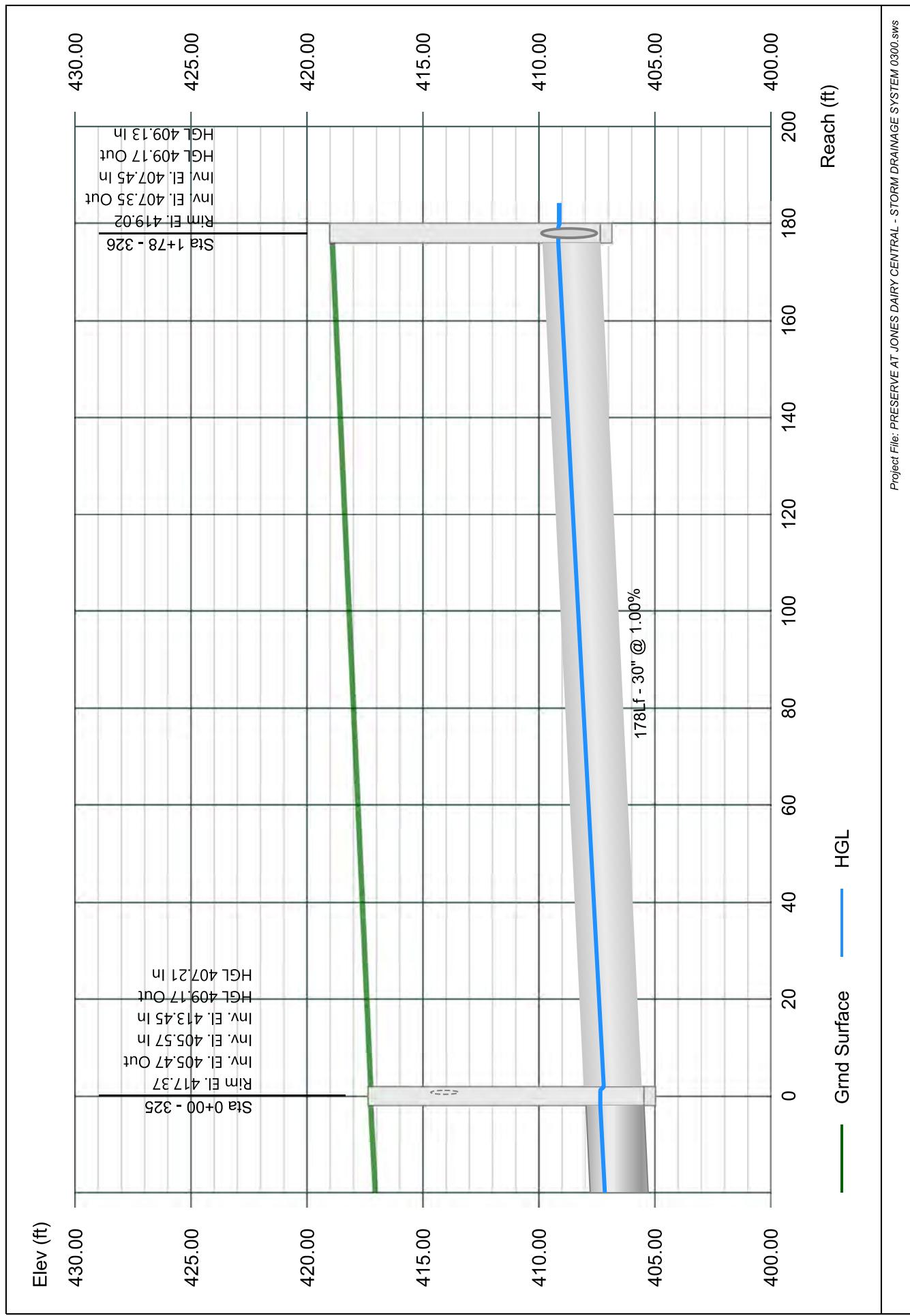


Line 57 - 326 TO 325

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

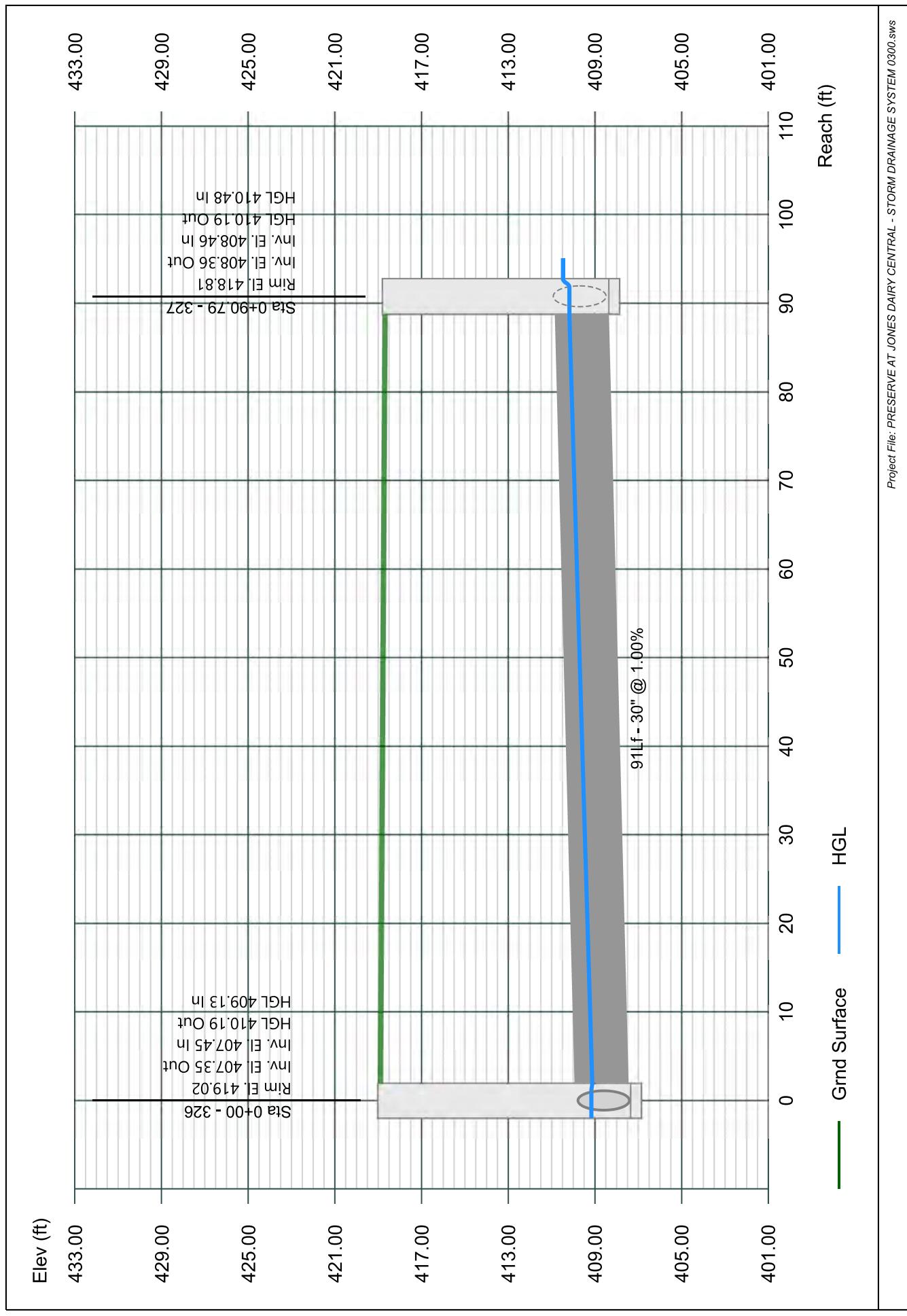
05-03-2023



Line 58 - 327 TO 326

Project Name: Enter Project Name...

Stormwater Studio 2023 v30031

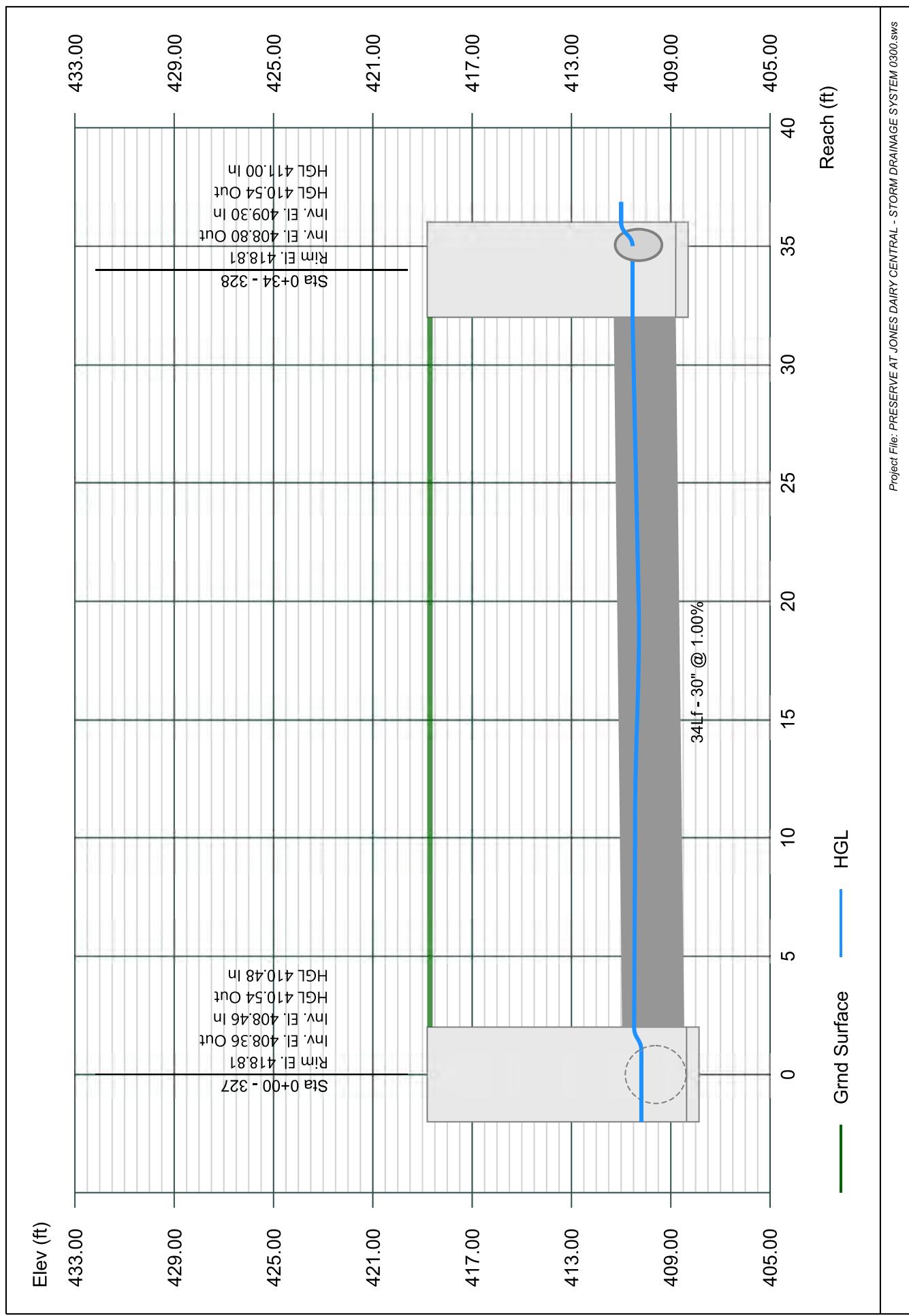


Line 59 - 328 TO 327

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

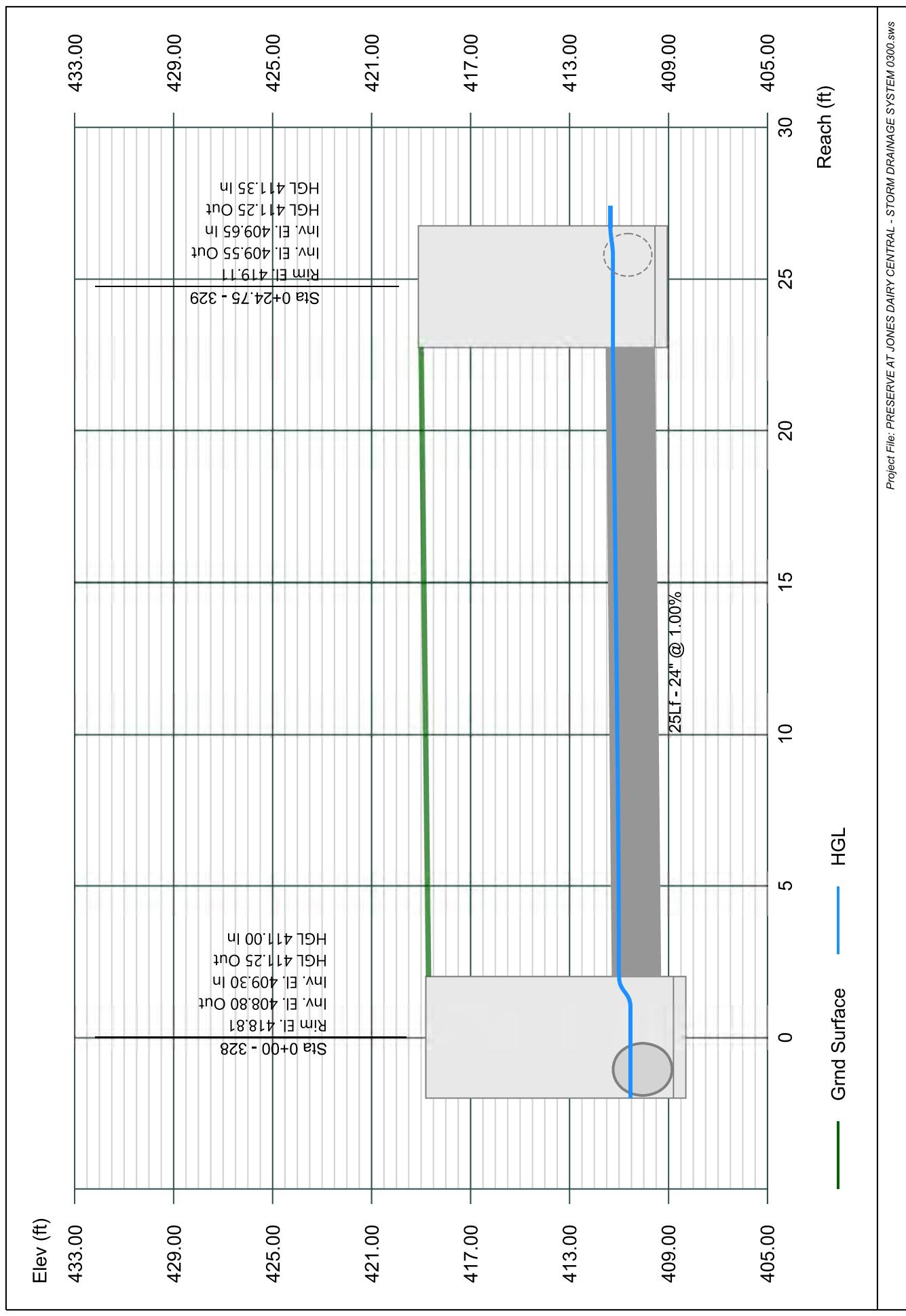


Line 60 - 329 TO 328

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

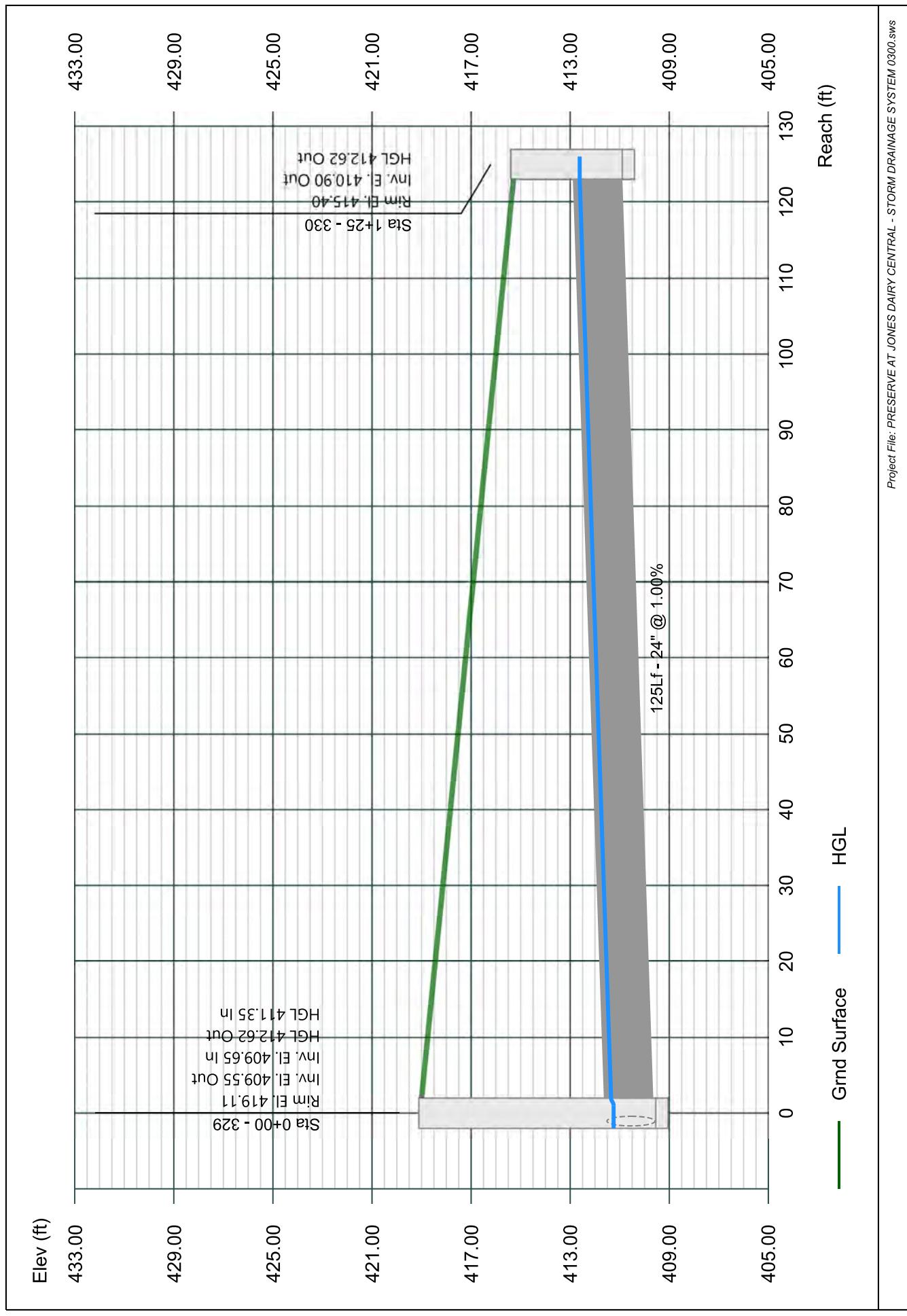


Line 61 - 330 TO 329

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

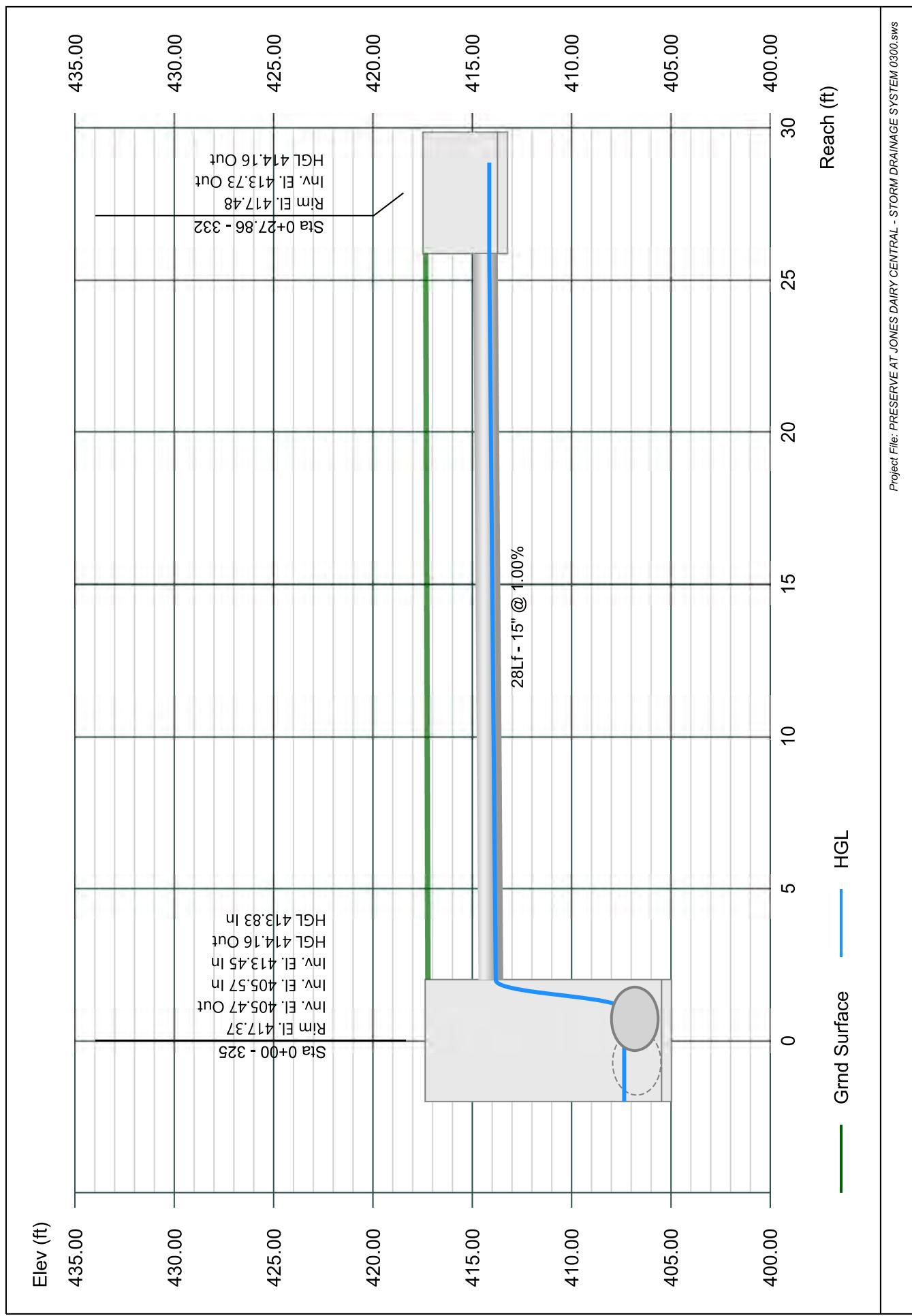


Line 62 - 332 TO 325

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

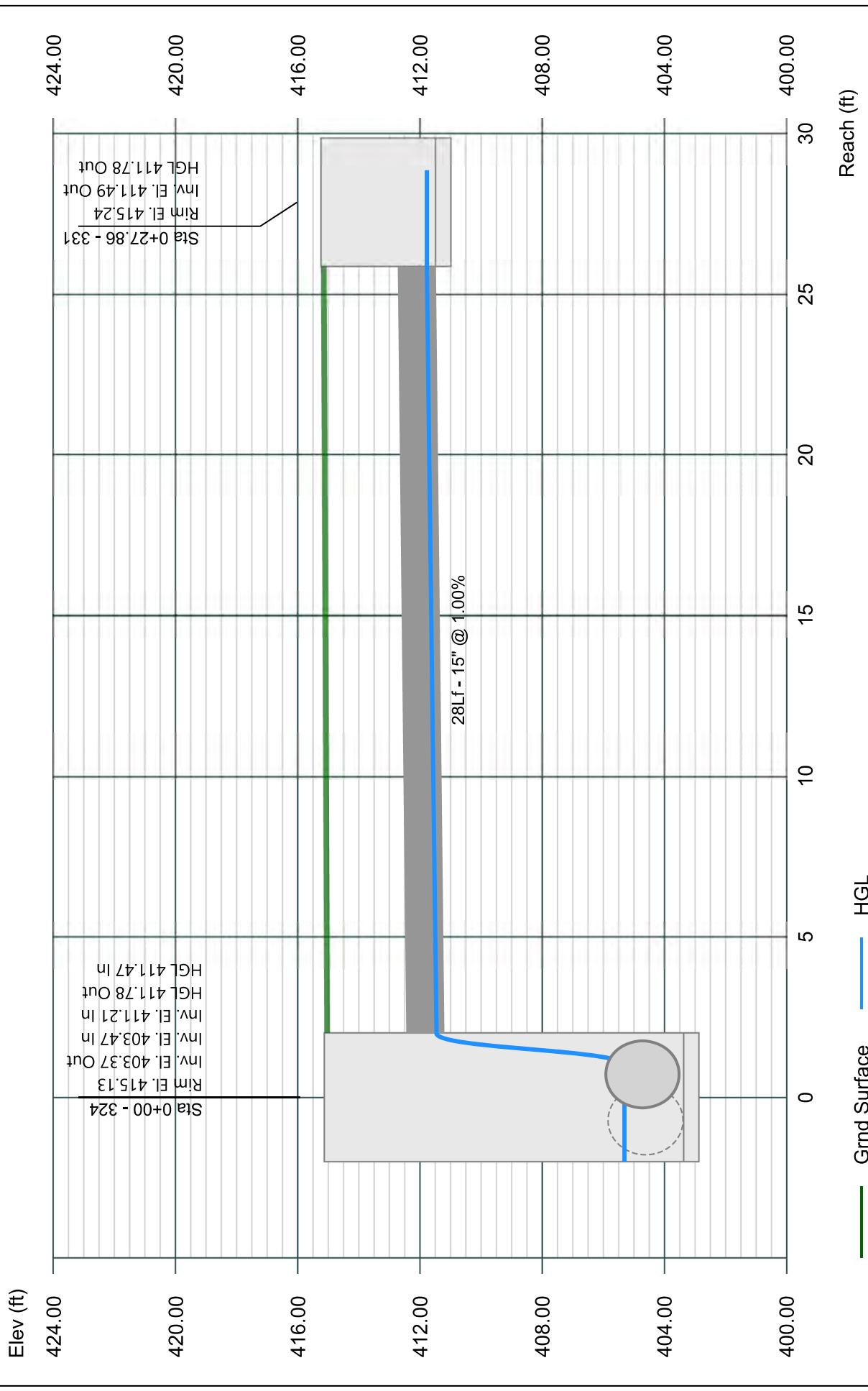


Line 63 - 331 TO 324

Project Name: Enter Project Name...

Stormwater Studio 2023 v 3.0.0.31

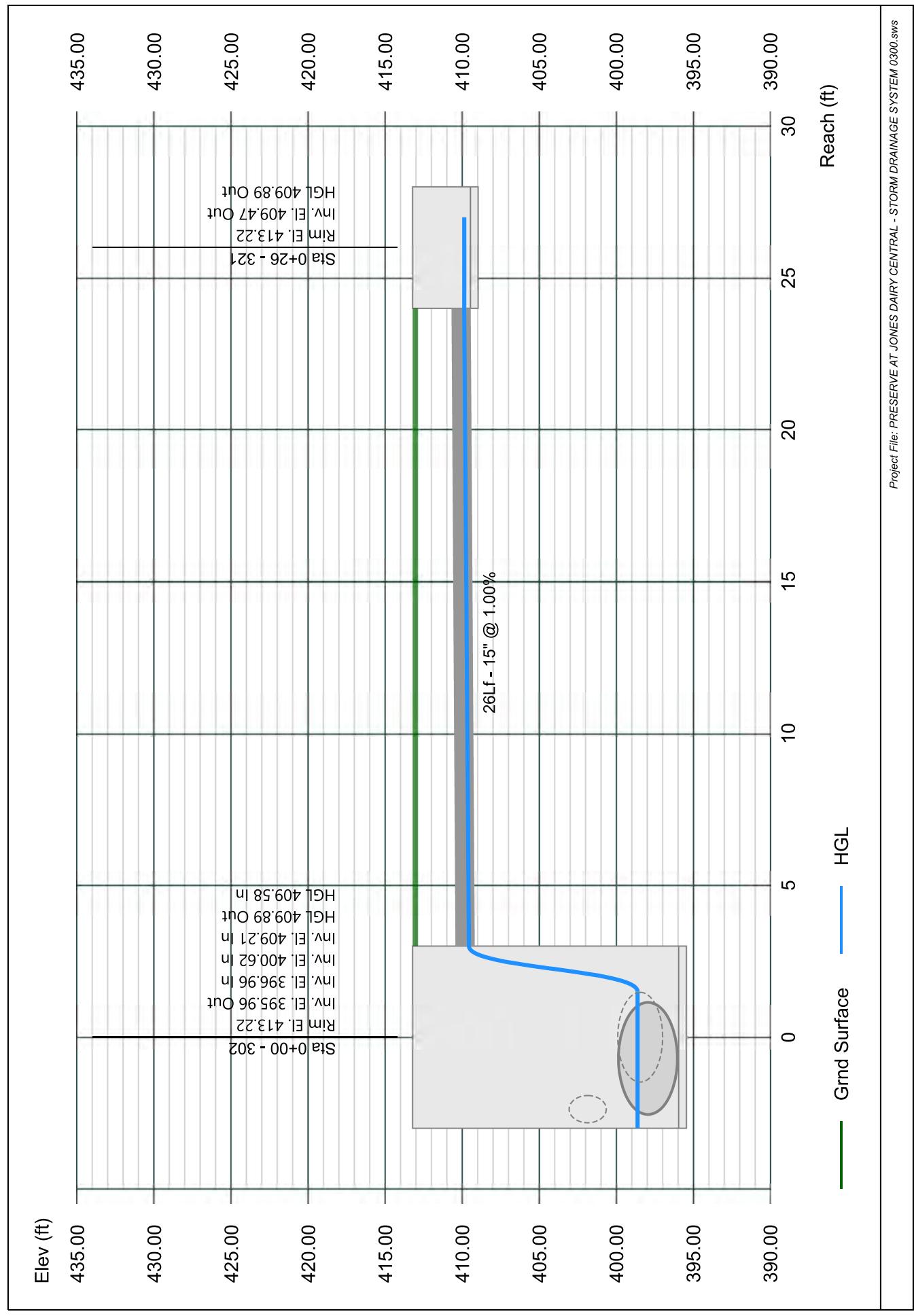
05-03-2023



Line 64 - 321 TO 302

Project Name: Enter Project Name...

05-03-2023

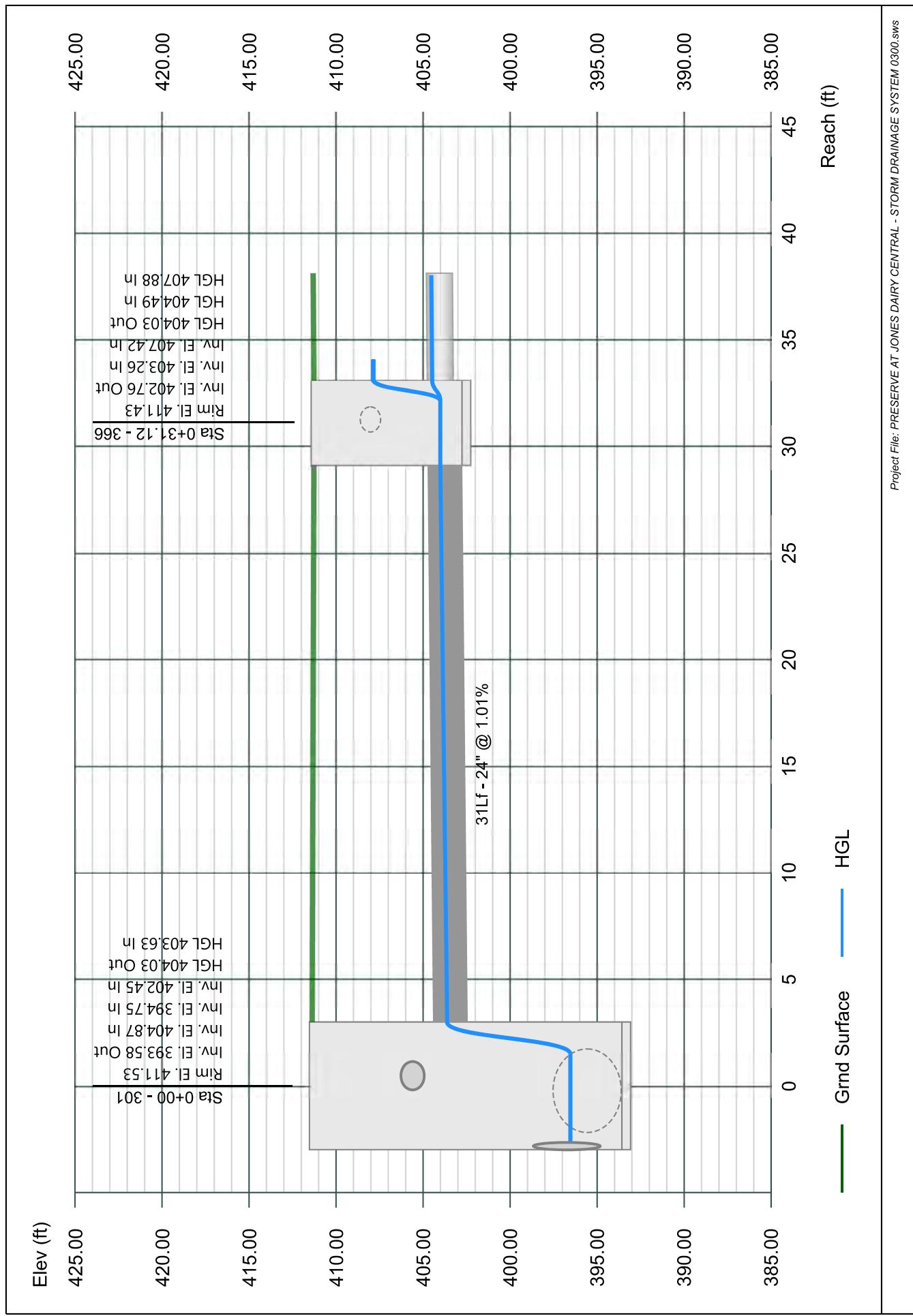


Line 65 - 366 TO 301

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

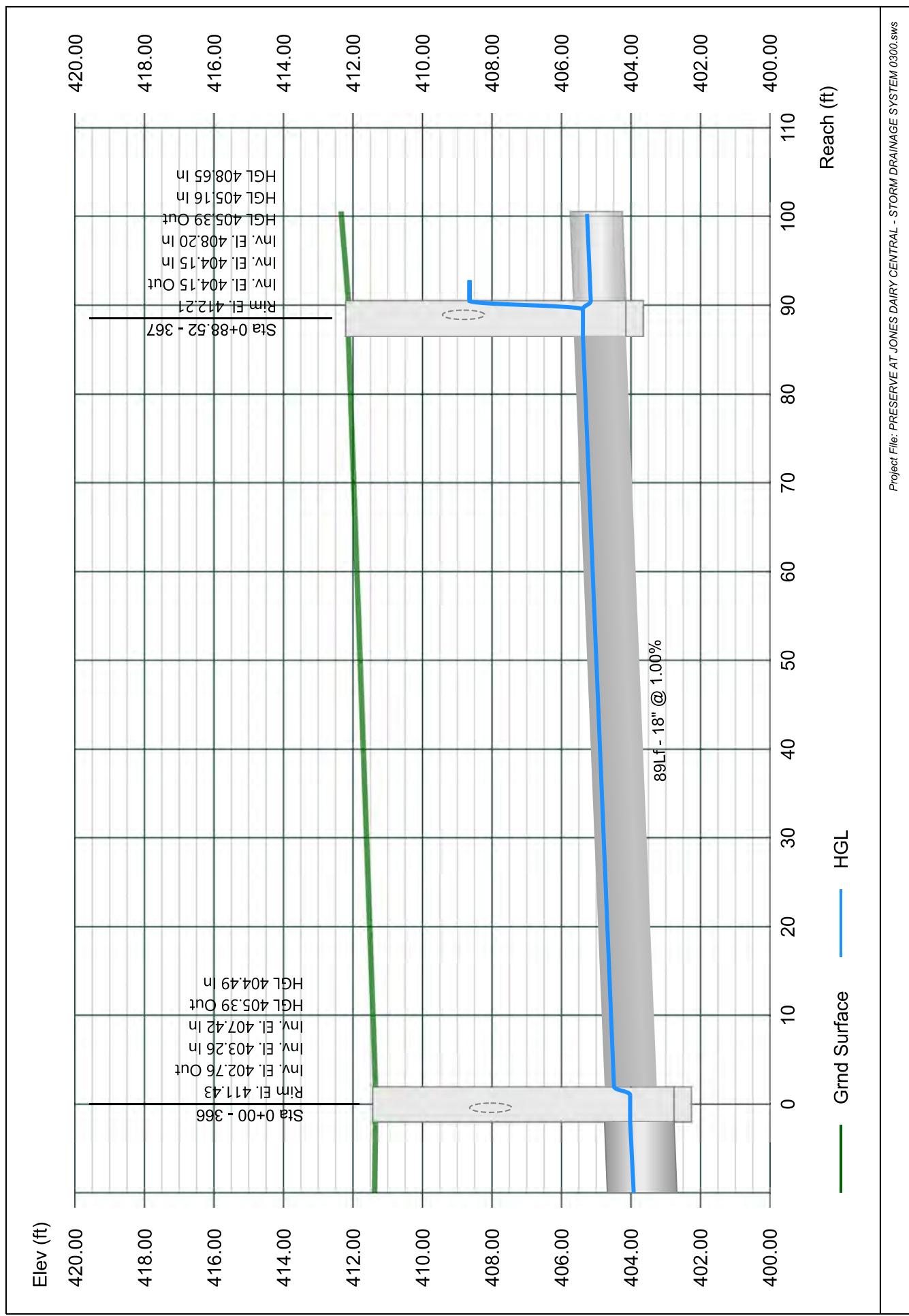


Line 66 - 367 TO 366

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

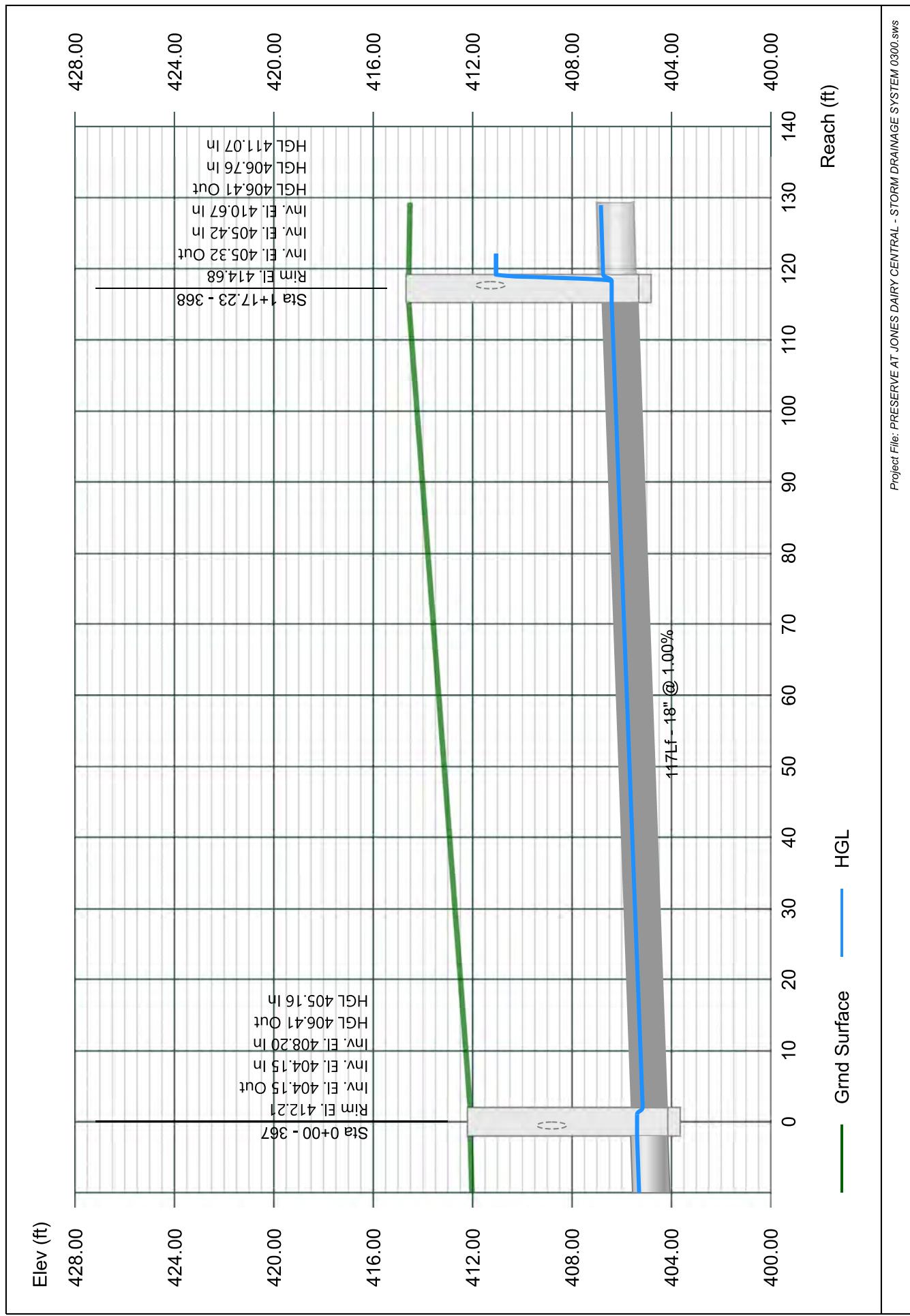


Line 67 - 368 TO 367

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

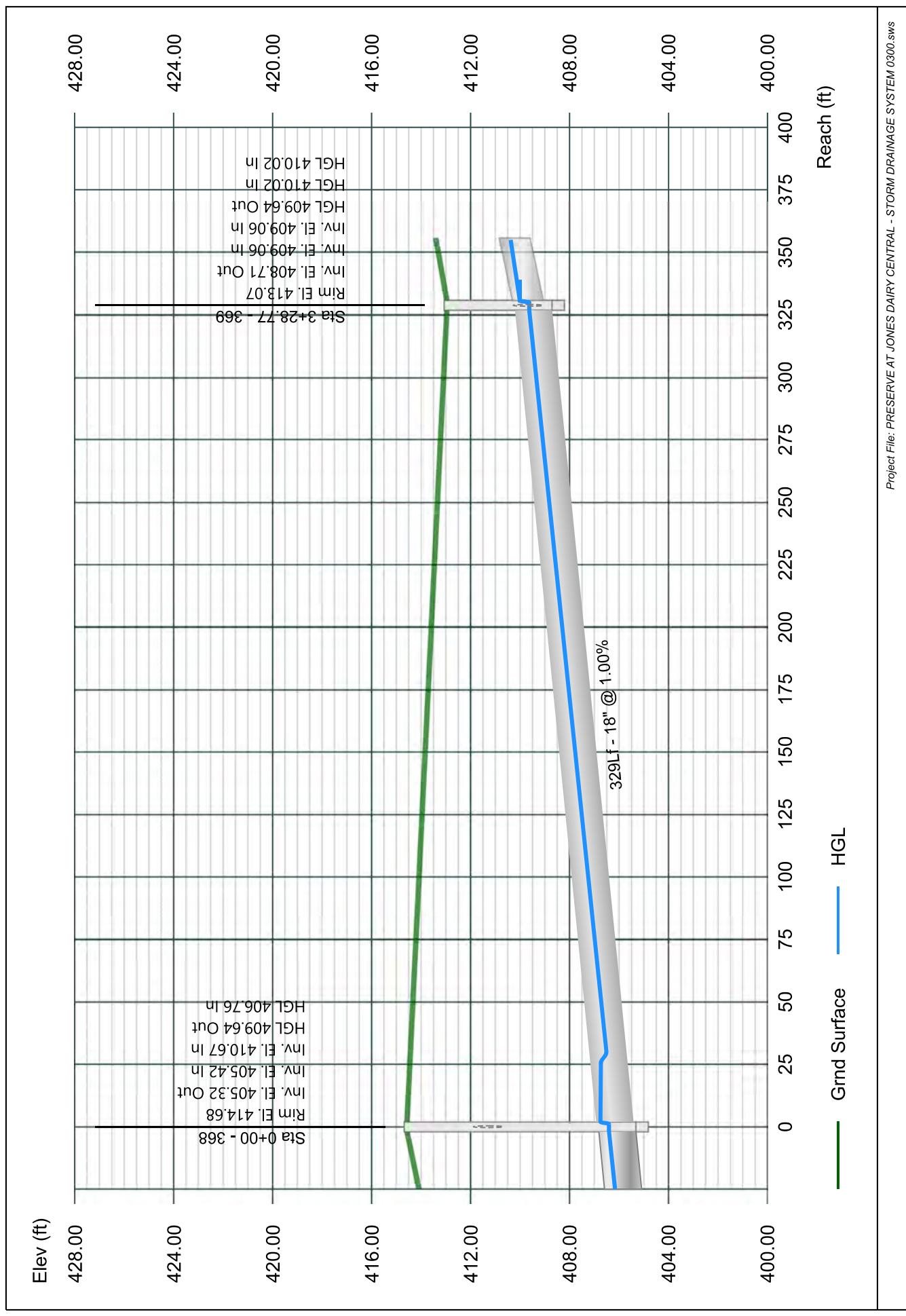


Line 68 - 368 TO 368

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

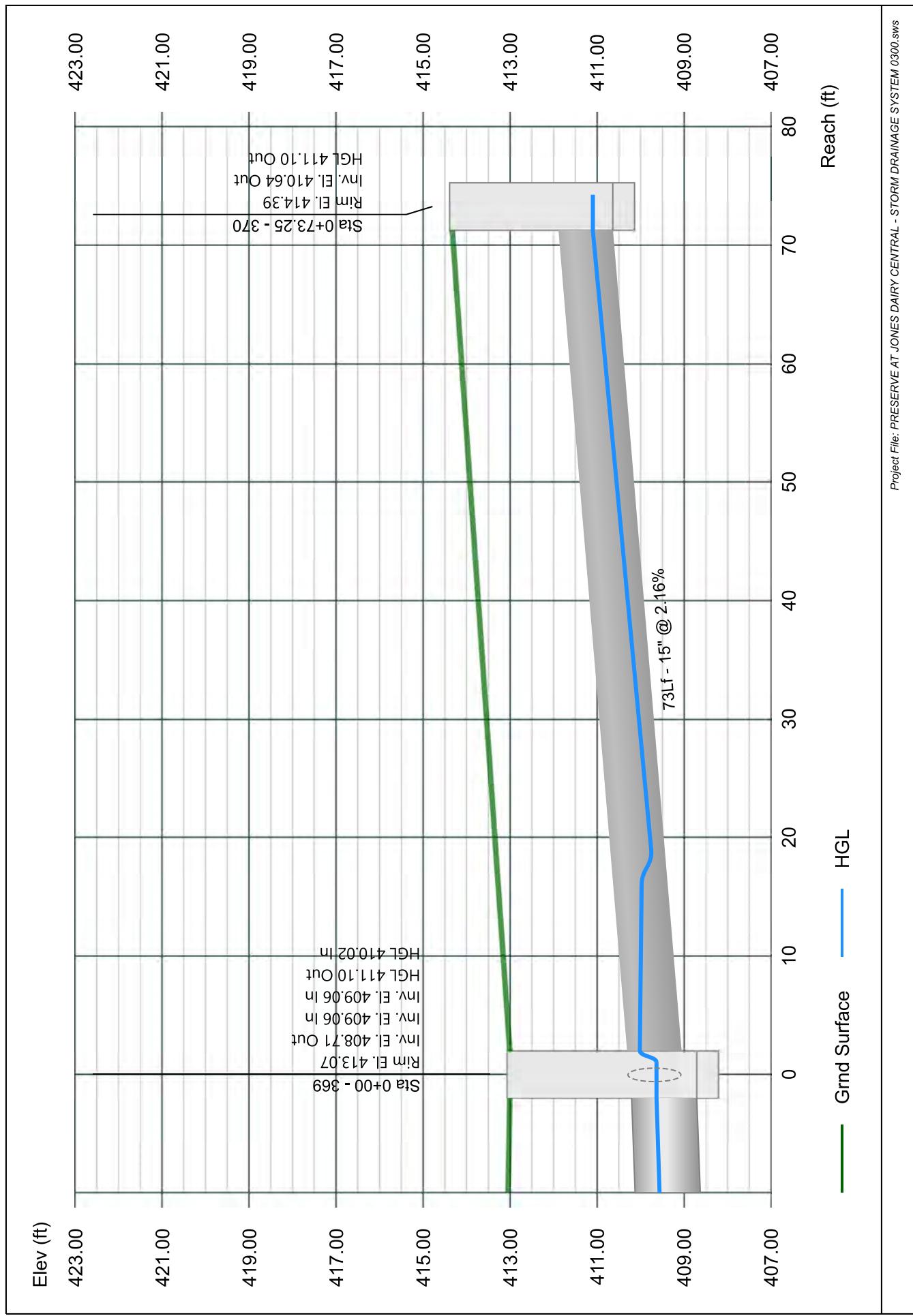


Line 69 - 370 TO 369

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

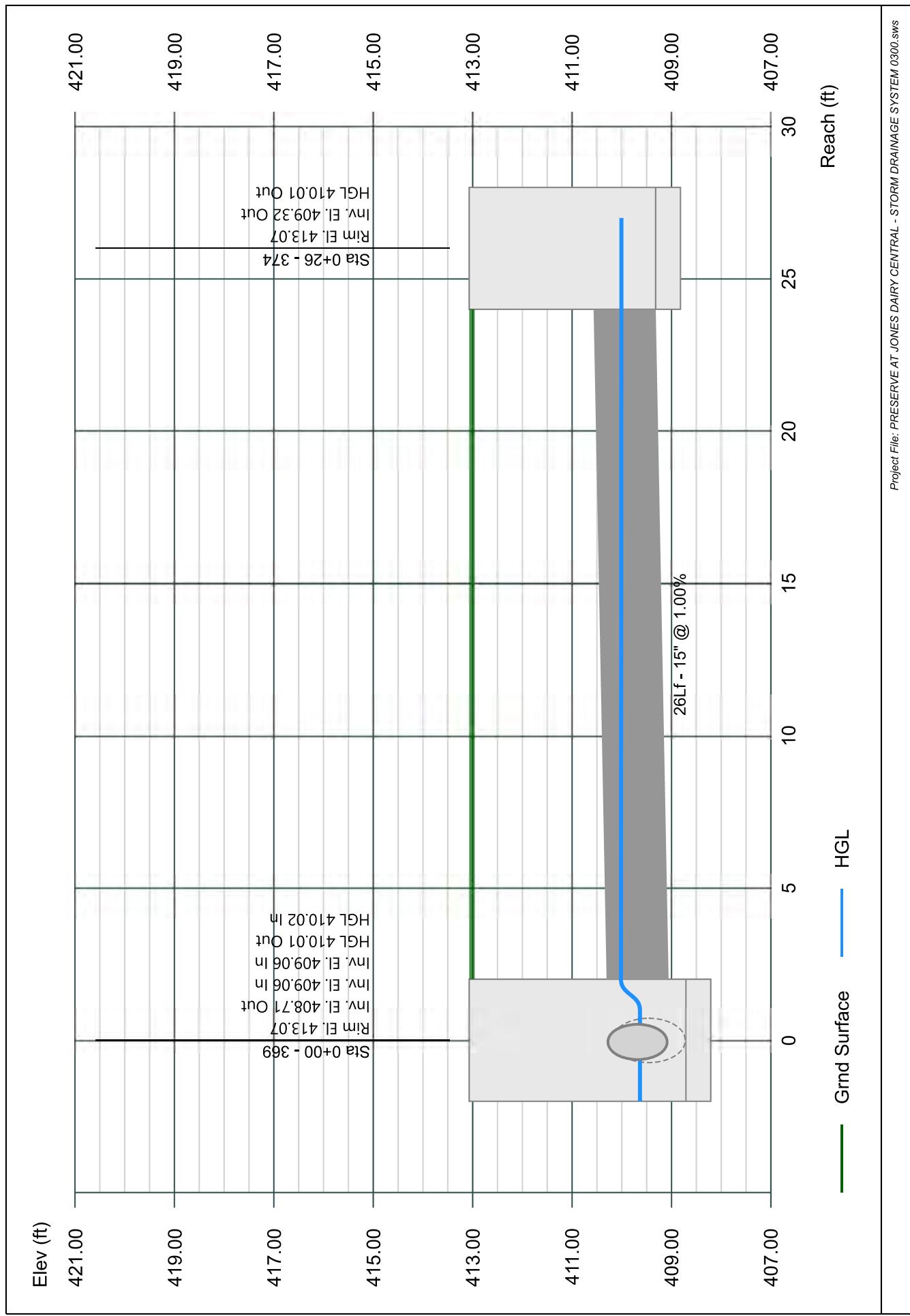


Line 70 - 374 TO 369

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

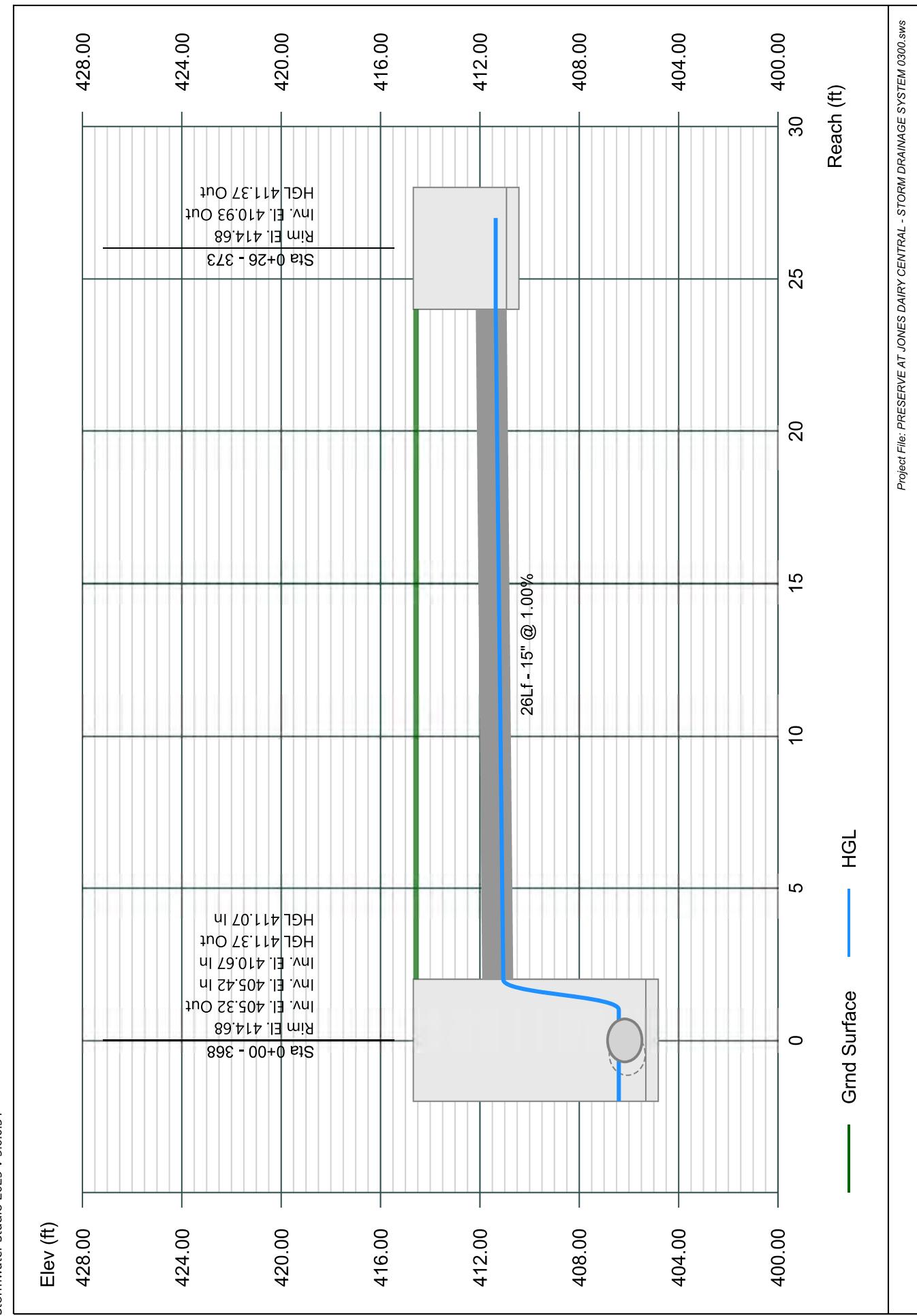


Line 71 - 383 TO 368

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

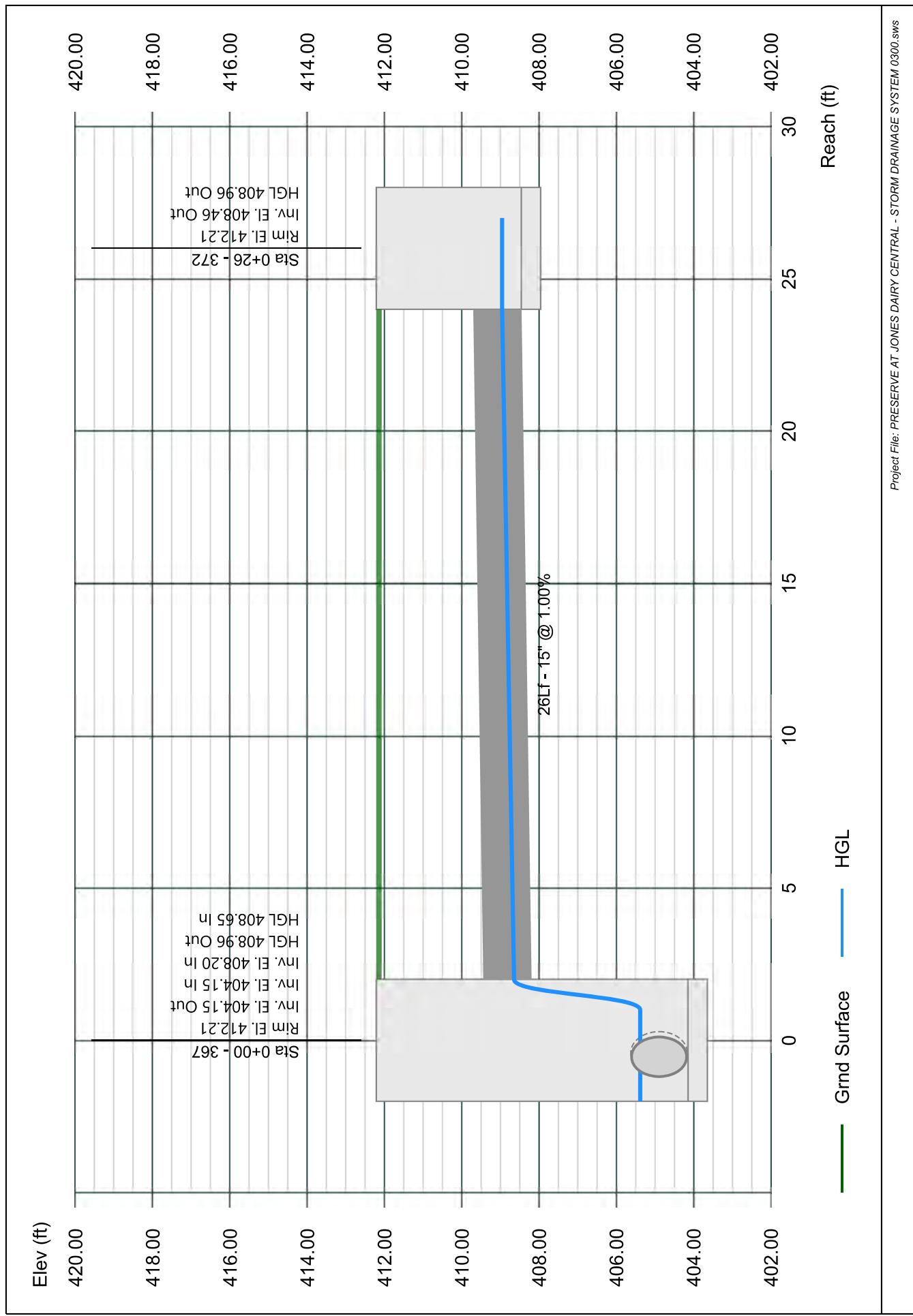


Line 72 - 372 TO 367

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

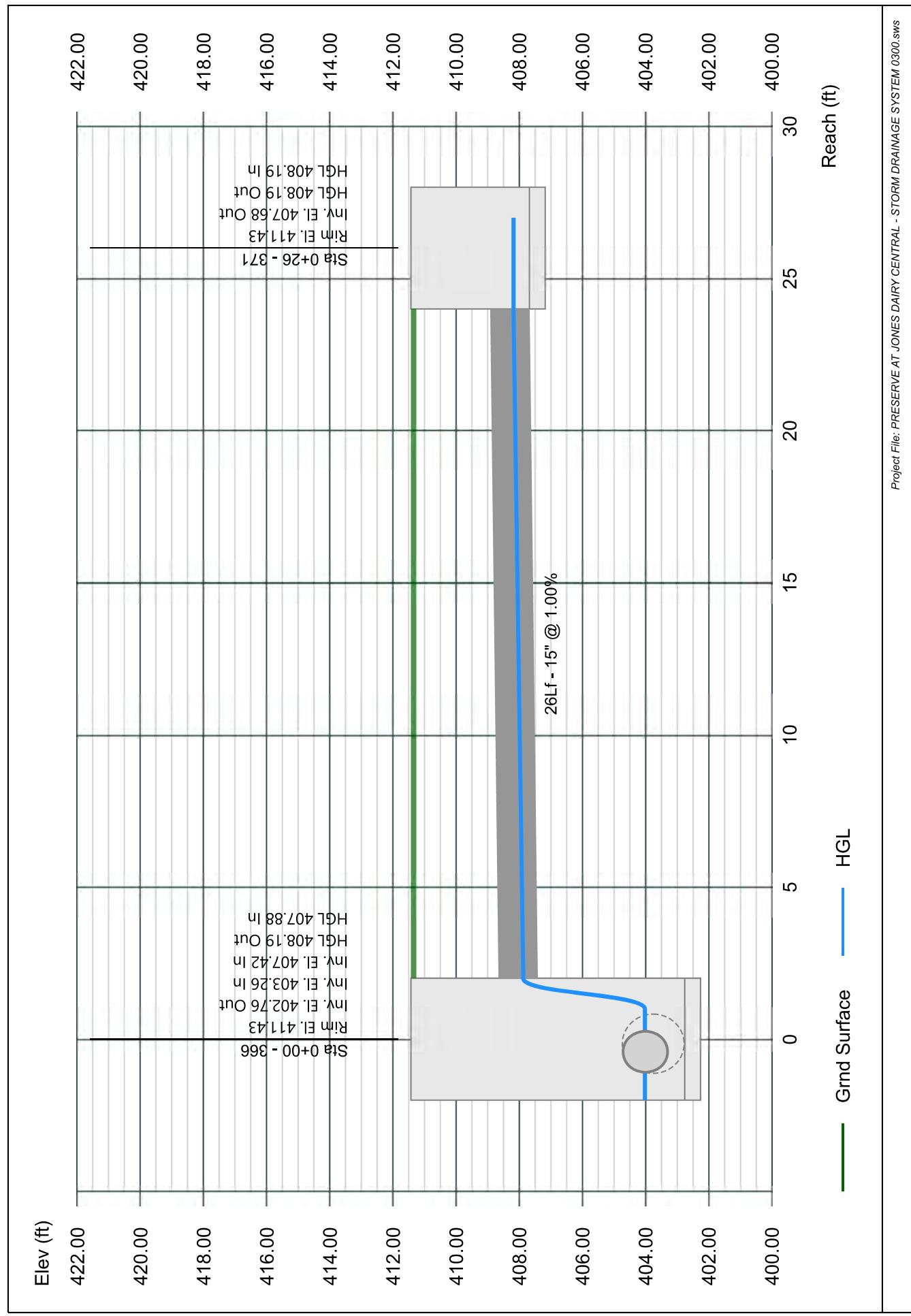
05-03-2023



Line 73 - 371 TO 366

Project Name: Enter Project Name...

05-03-2023



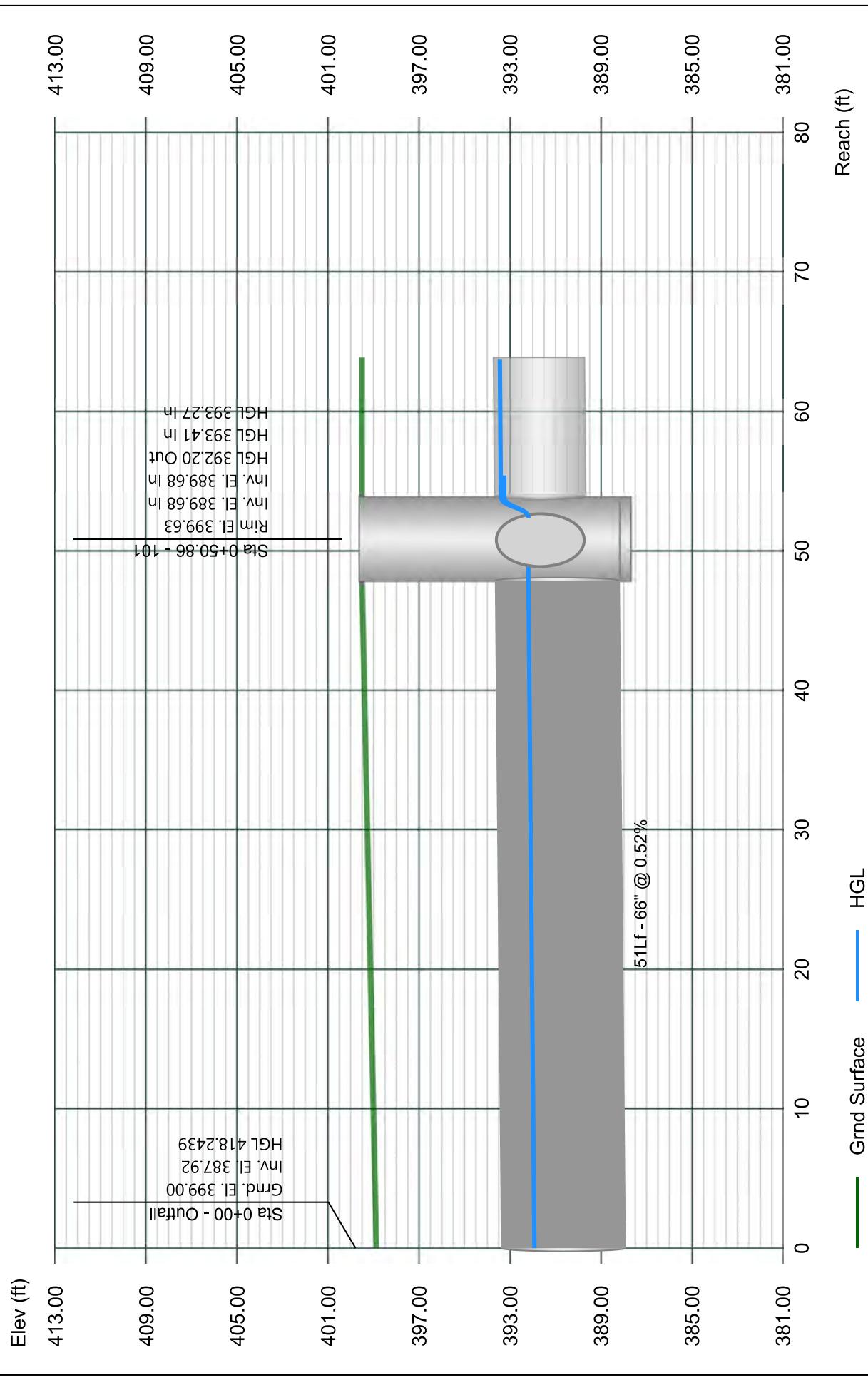
25-YEAR HGL

Line 1 - 101 TO 100

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

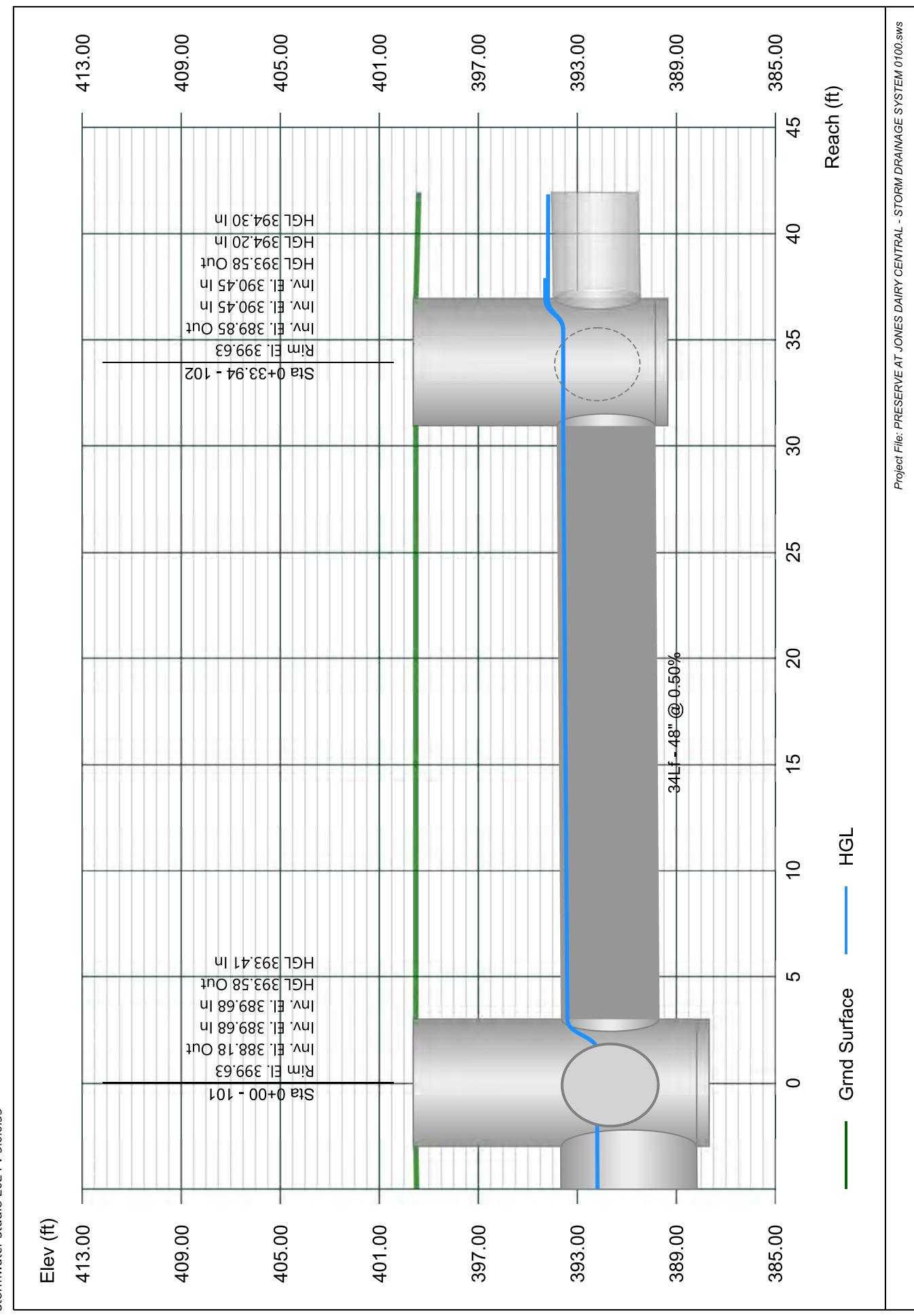


Line 2 - 102 TO 101

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

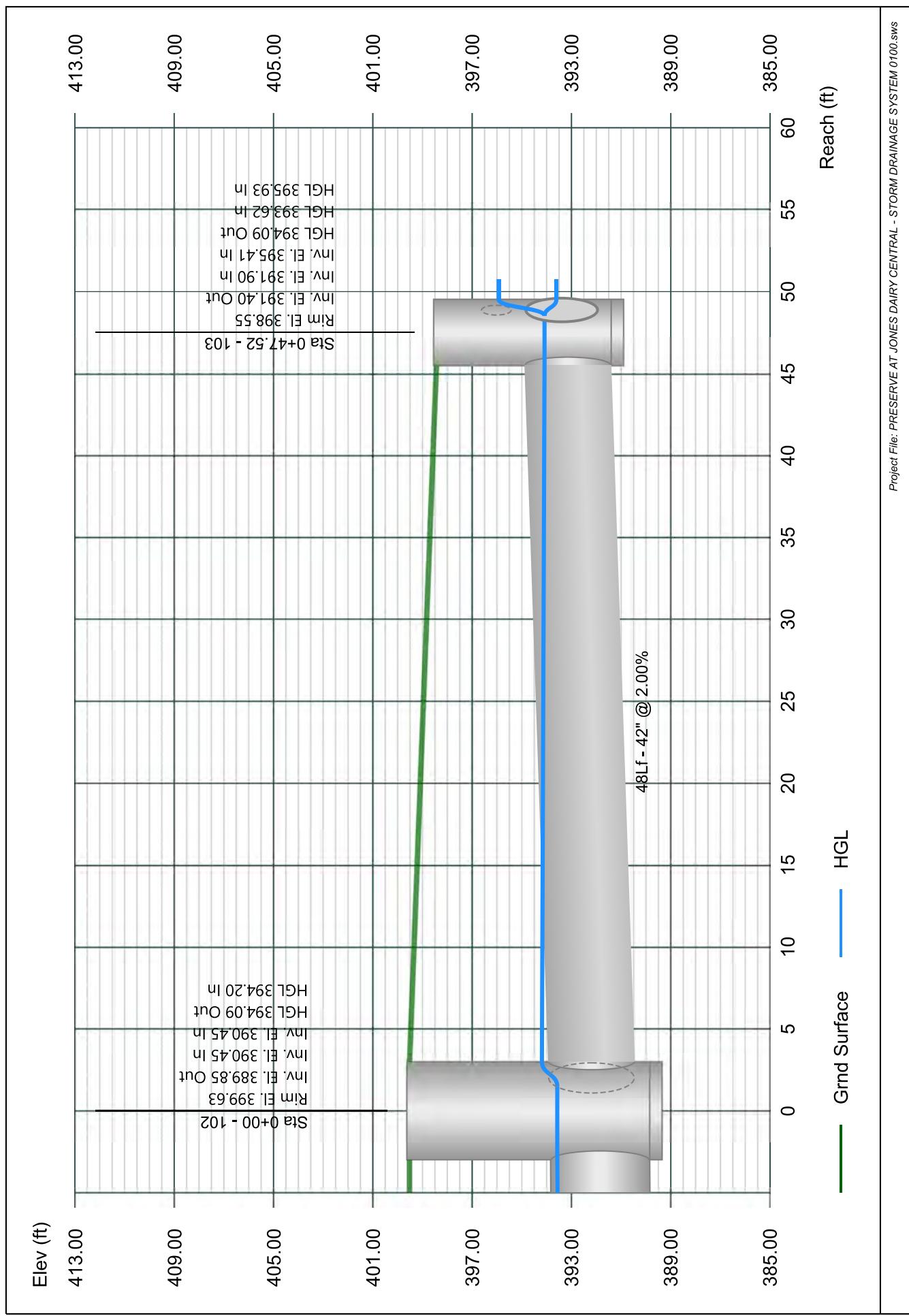


Line 3 - 103 TO 102

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

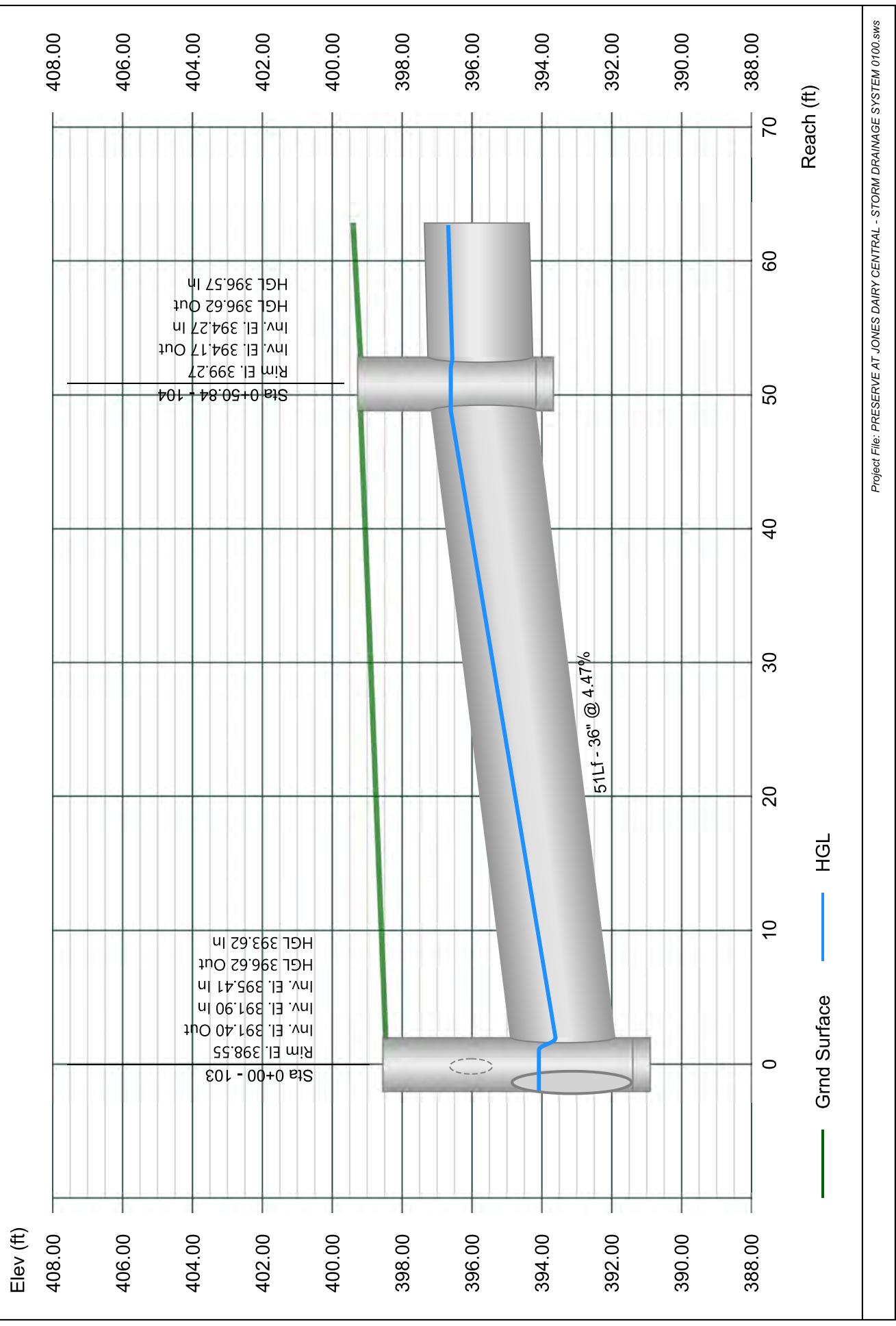


Line 4 - 104 TO 103

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

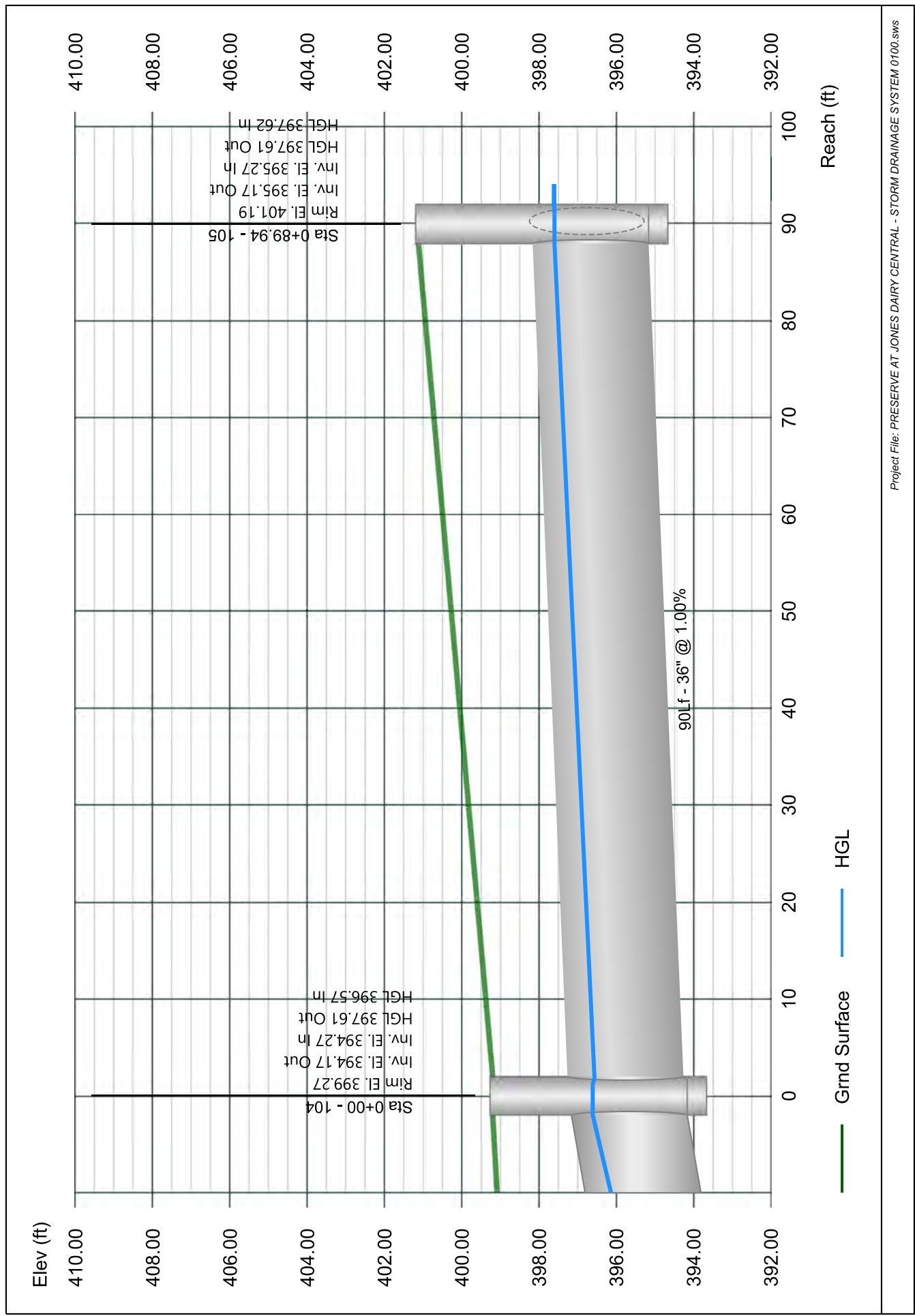


Line 5 - 105 TO 104

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

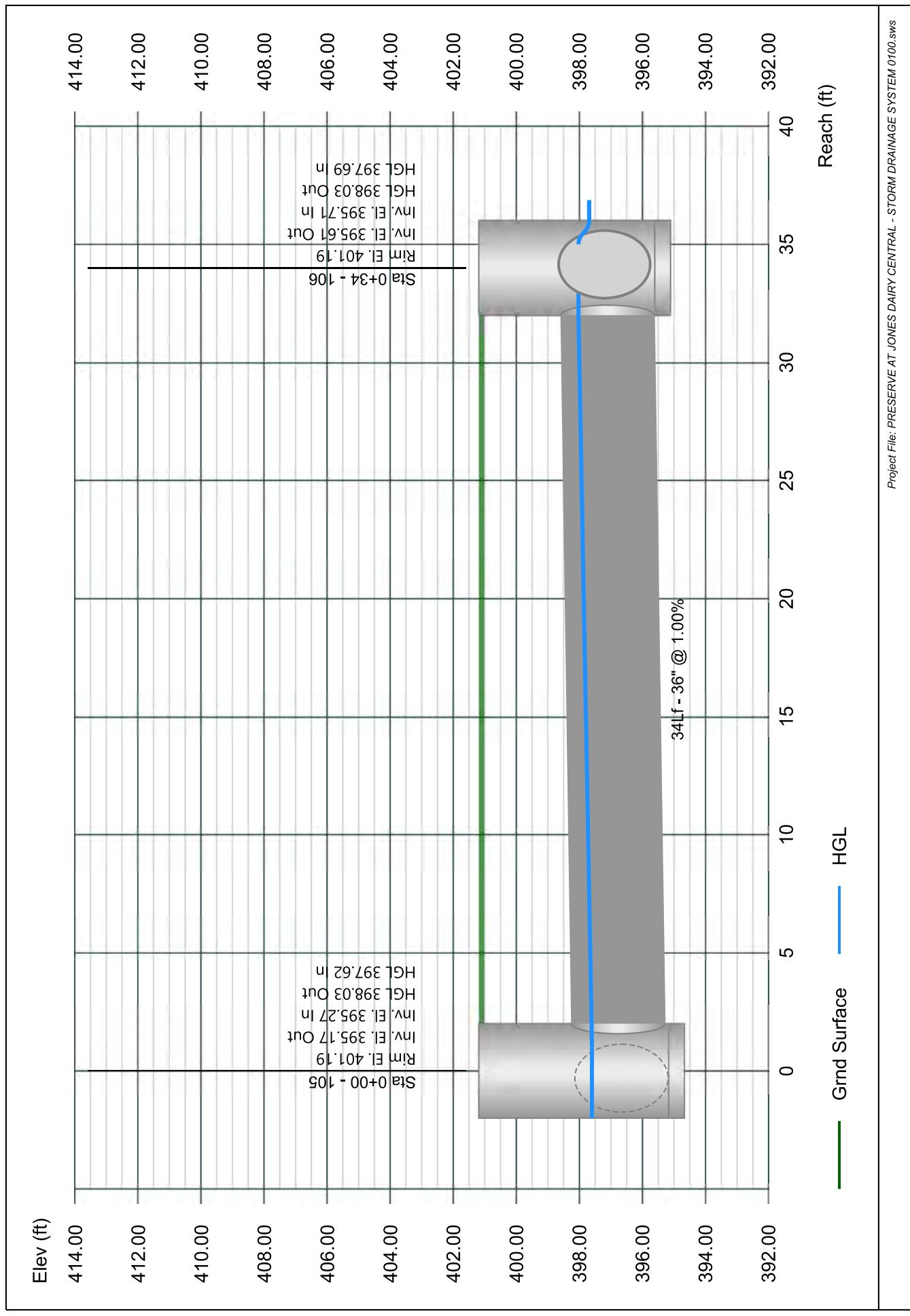


Line 6 - 106 TO 105

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

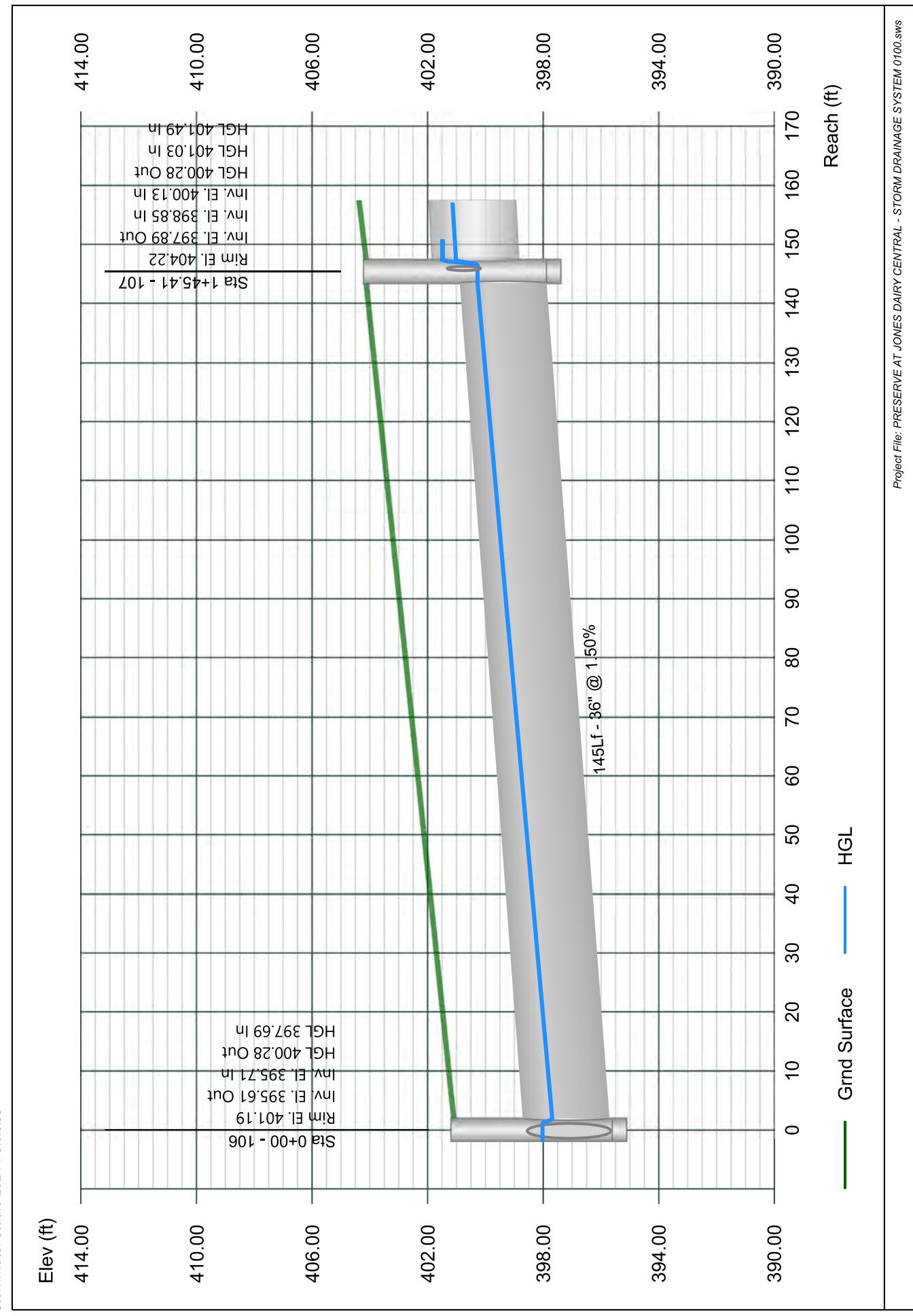


Line 7 - 107 TO 106

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

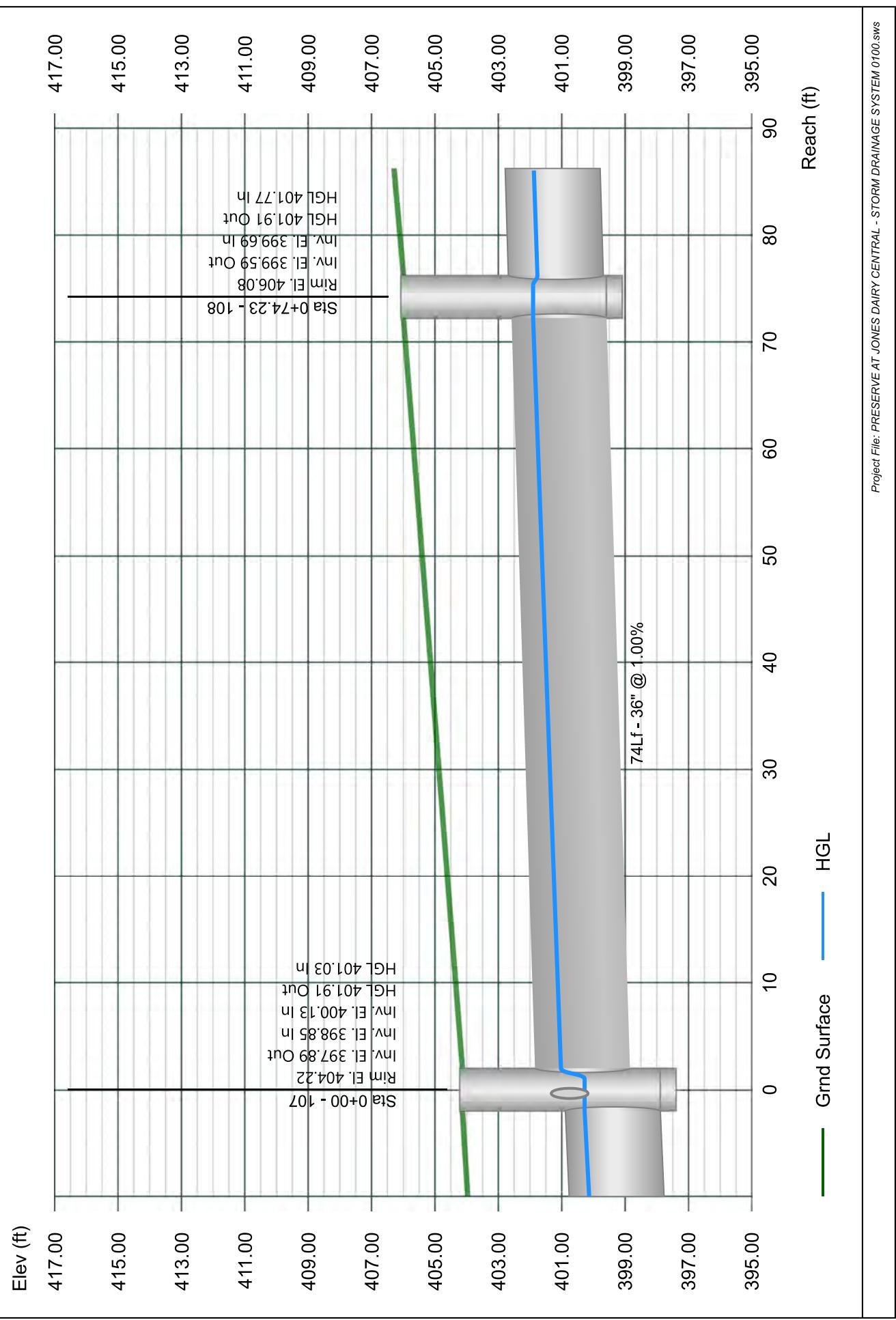


Line 8 - 108 TO 107

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

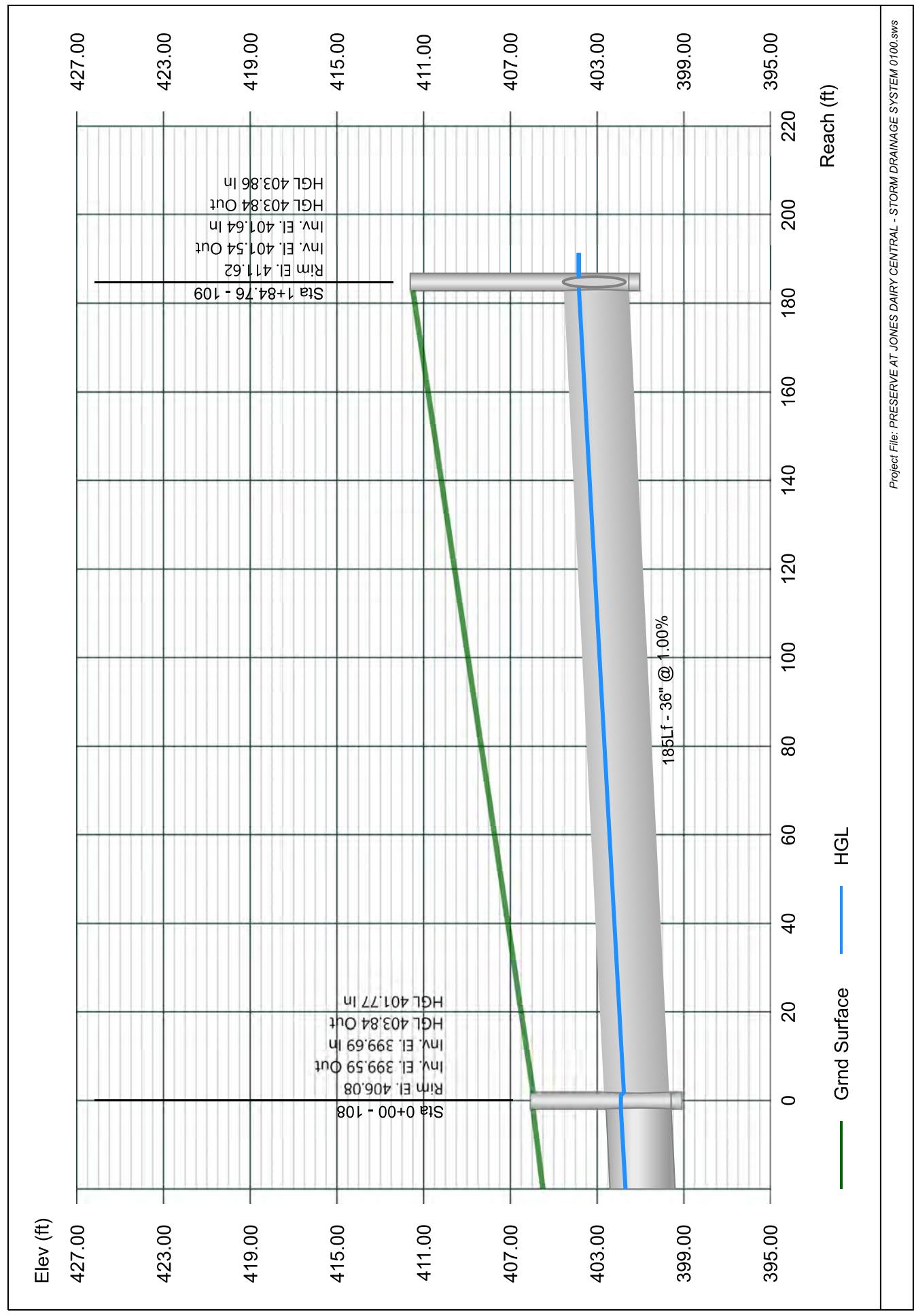


Line 9 - 109 TO 108

Line 9 - 109 T0
Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

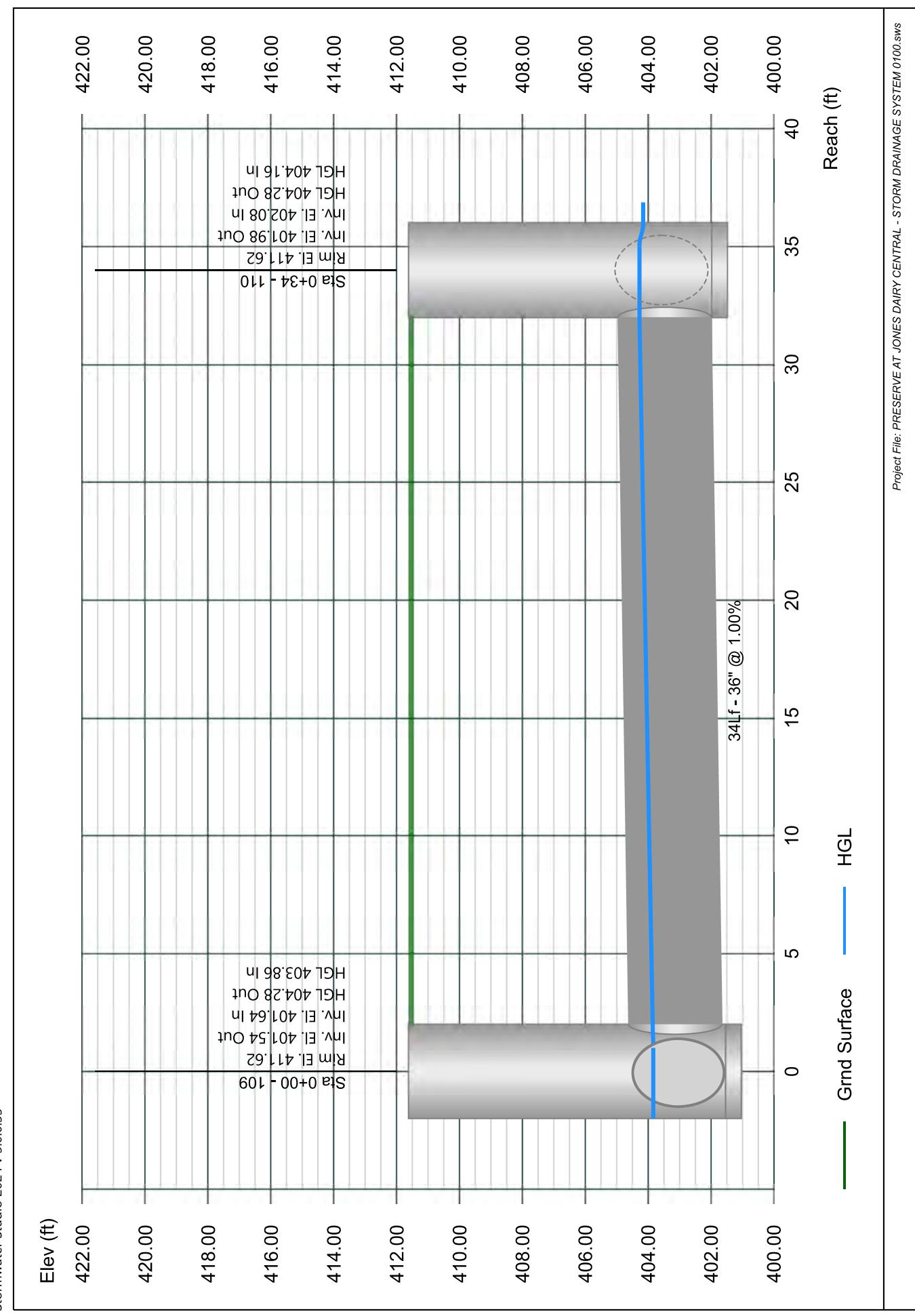


Line 10 - 110 TO 109

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

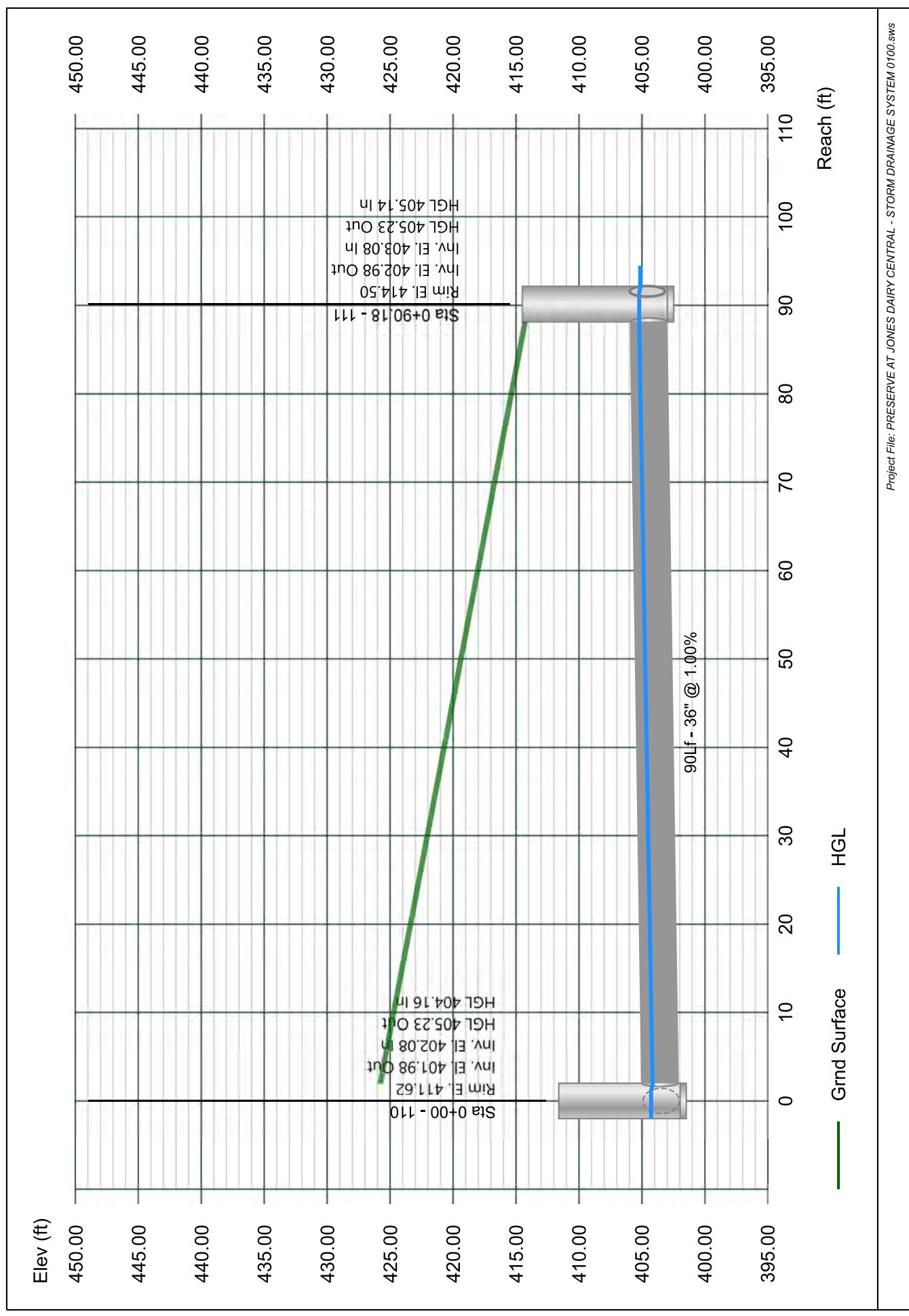


Line 11 - 111 TO 110

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

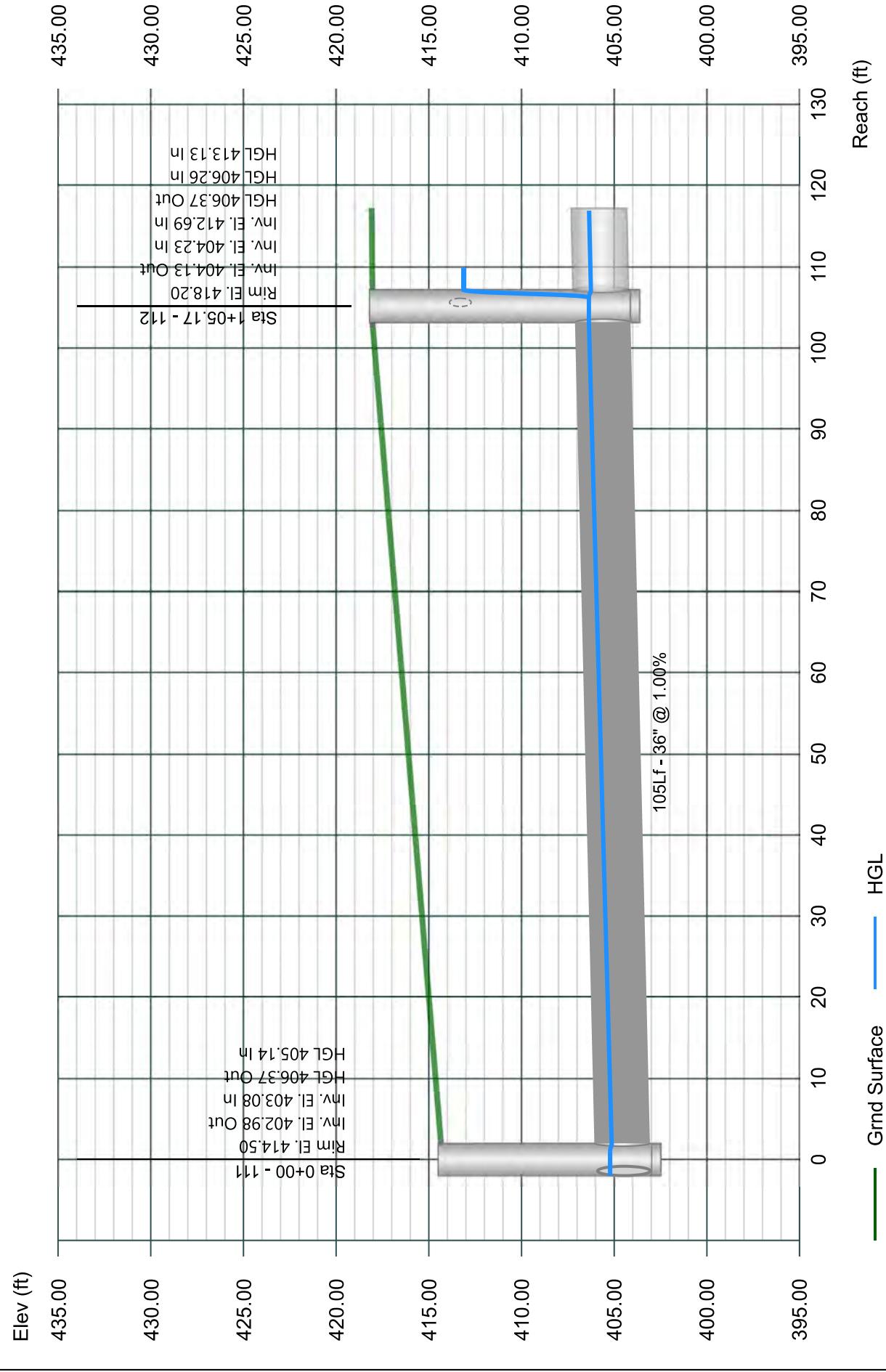


Line 12 - 112 TO 111

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

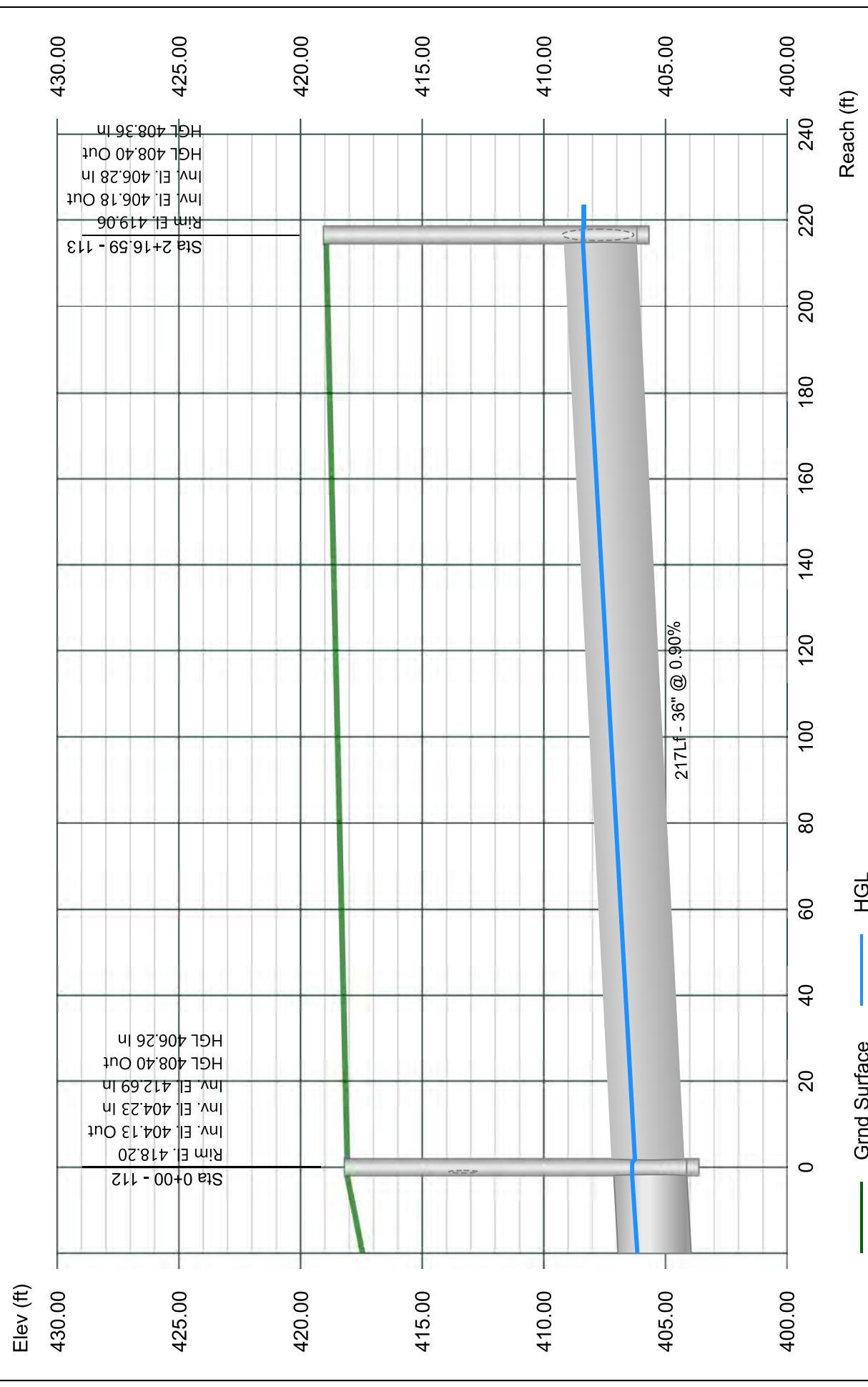


Line 13 - 113 TO 112

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

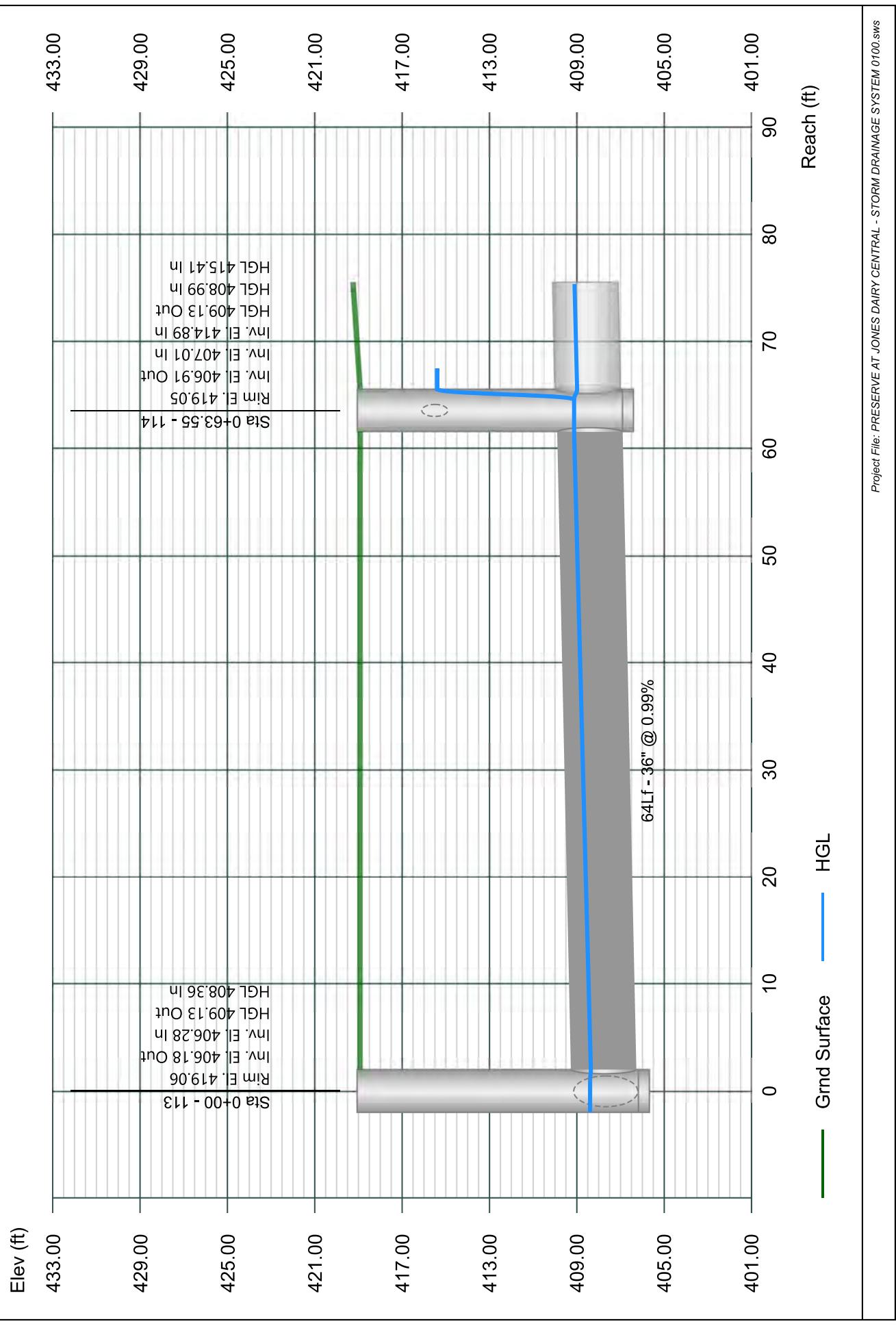


Line 14 - 114 TO 113

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

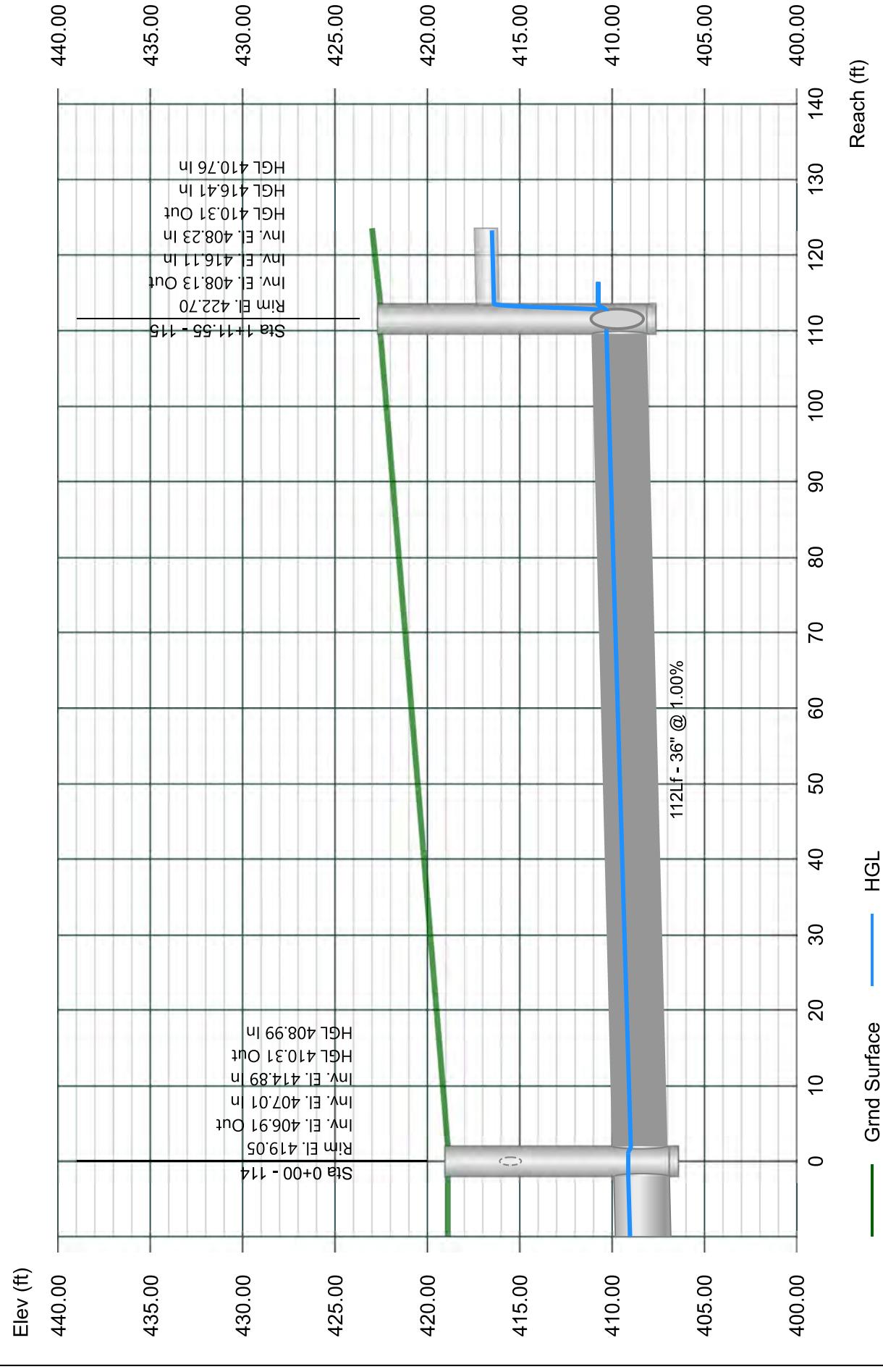


Line 15 - 115 TO 114

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

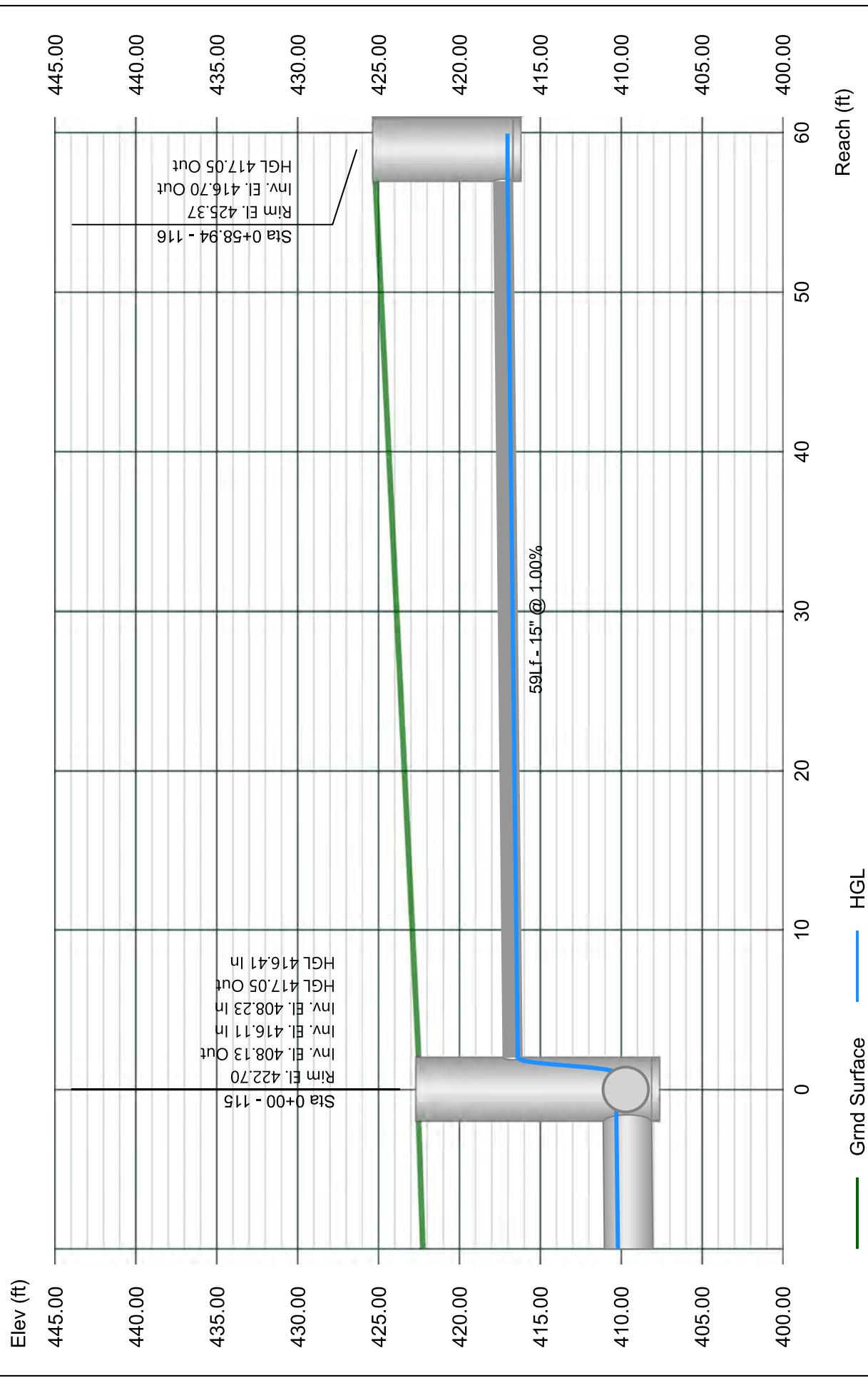


Line 16 - 116 TO 115

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

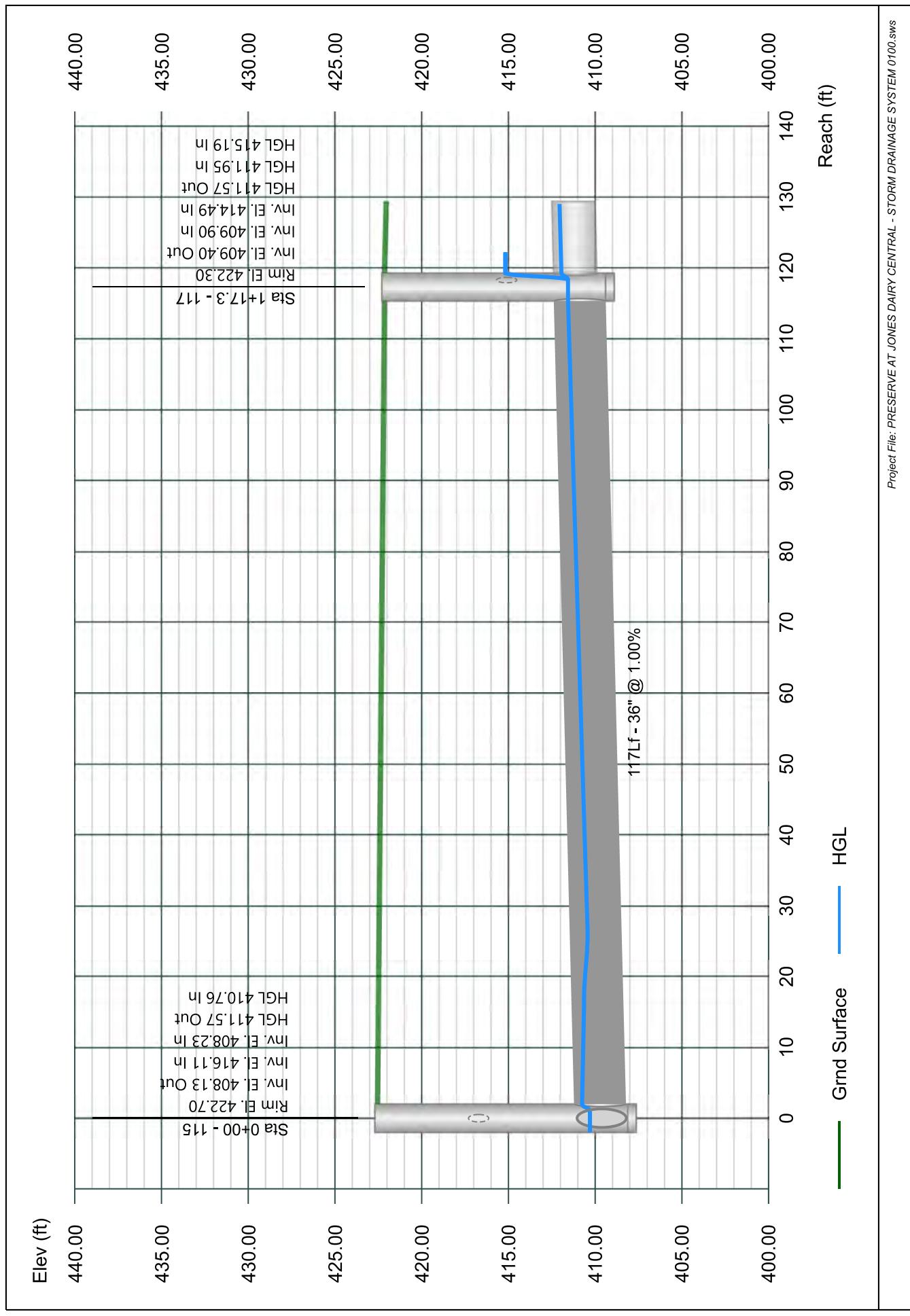


Line 17 - 117 TO 115

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

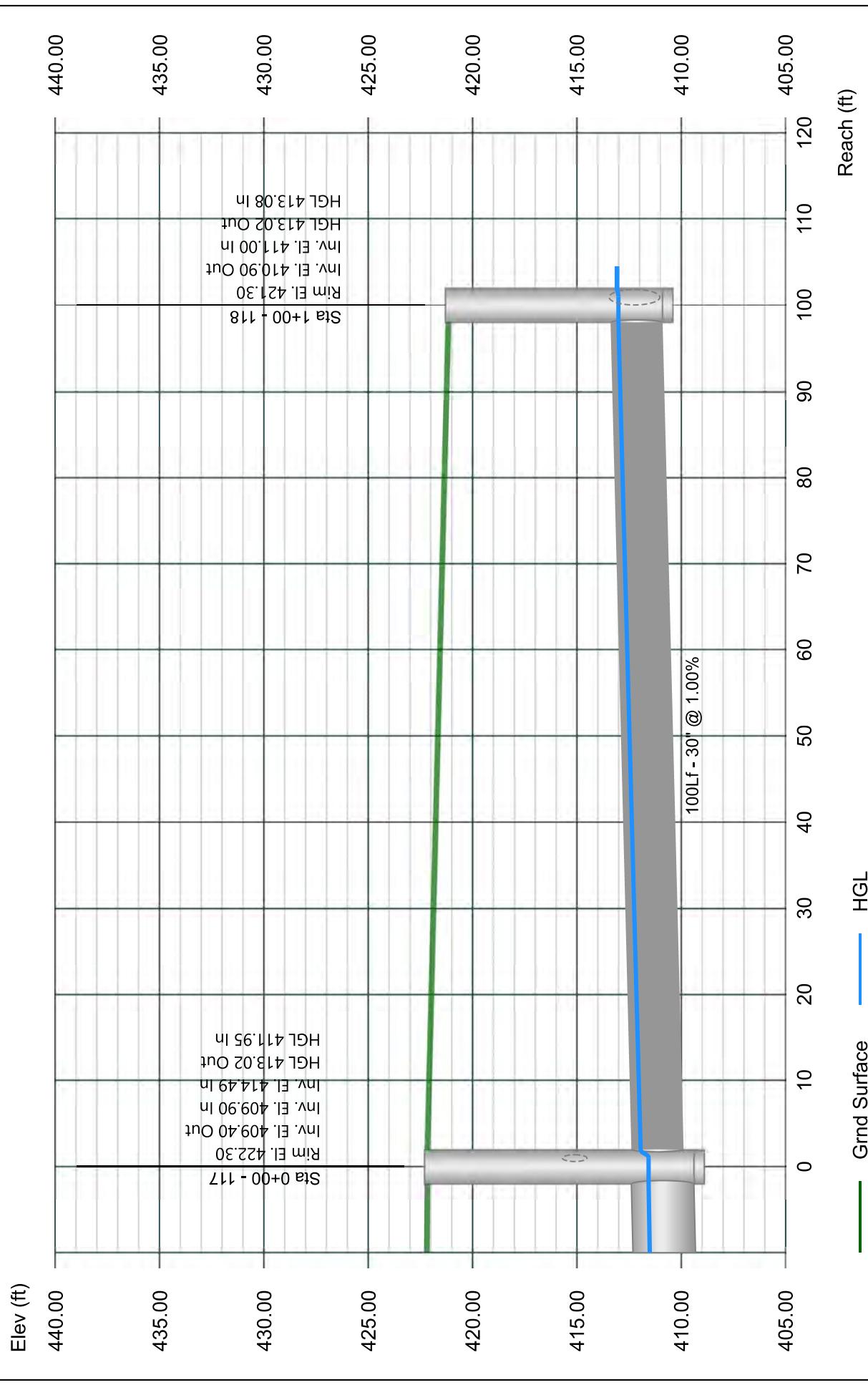


Line 18 - 118 TO 117

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

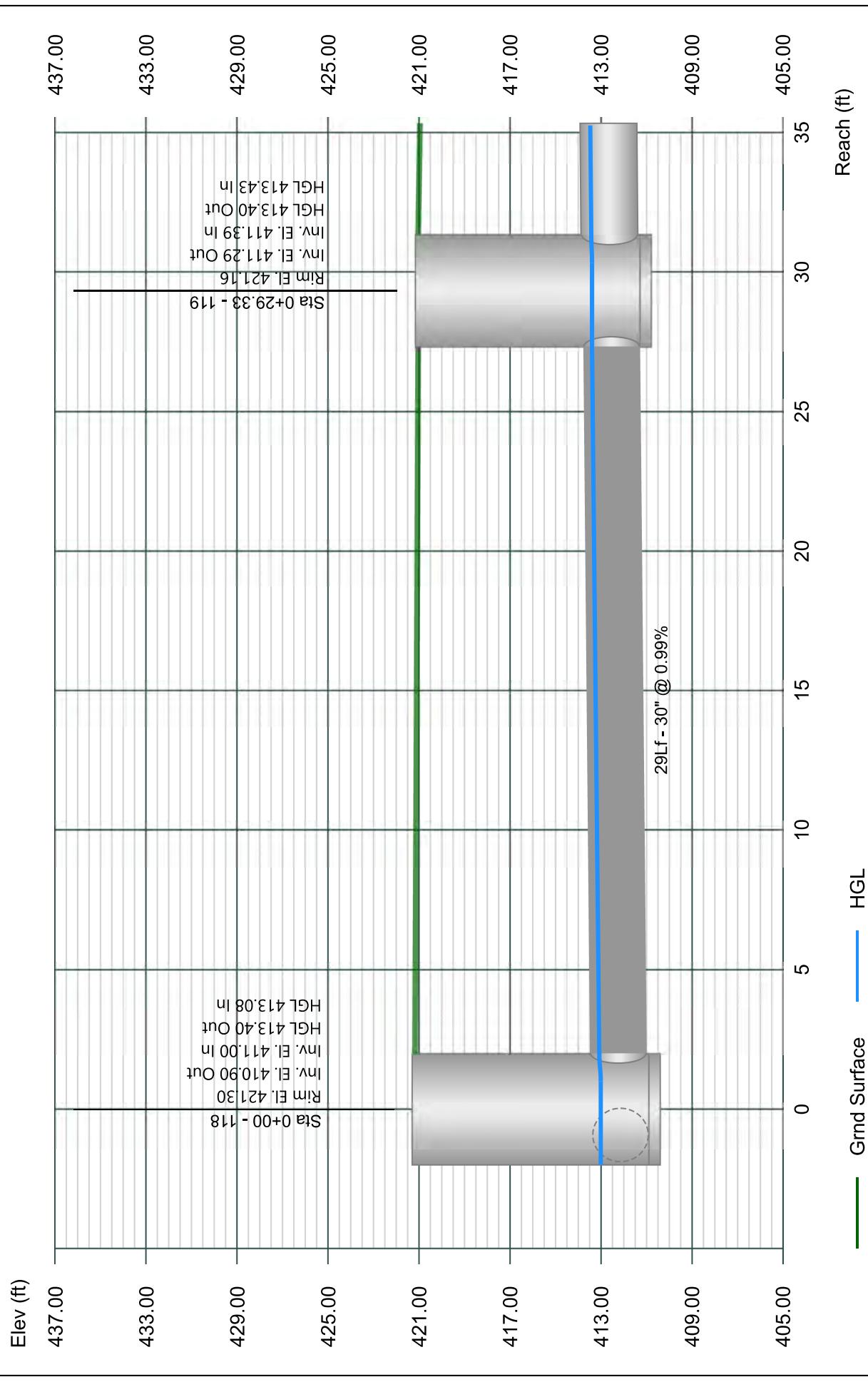


Line 19 - 119 TO 118

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

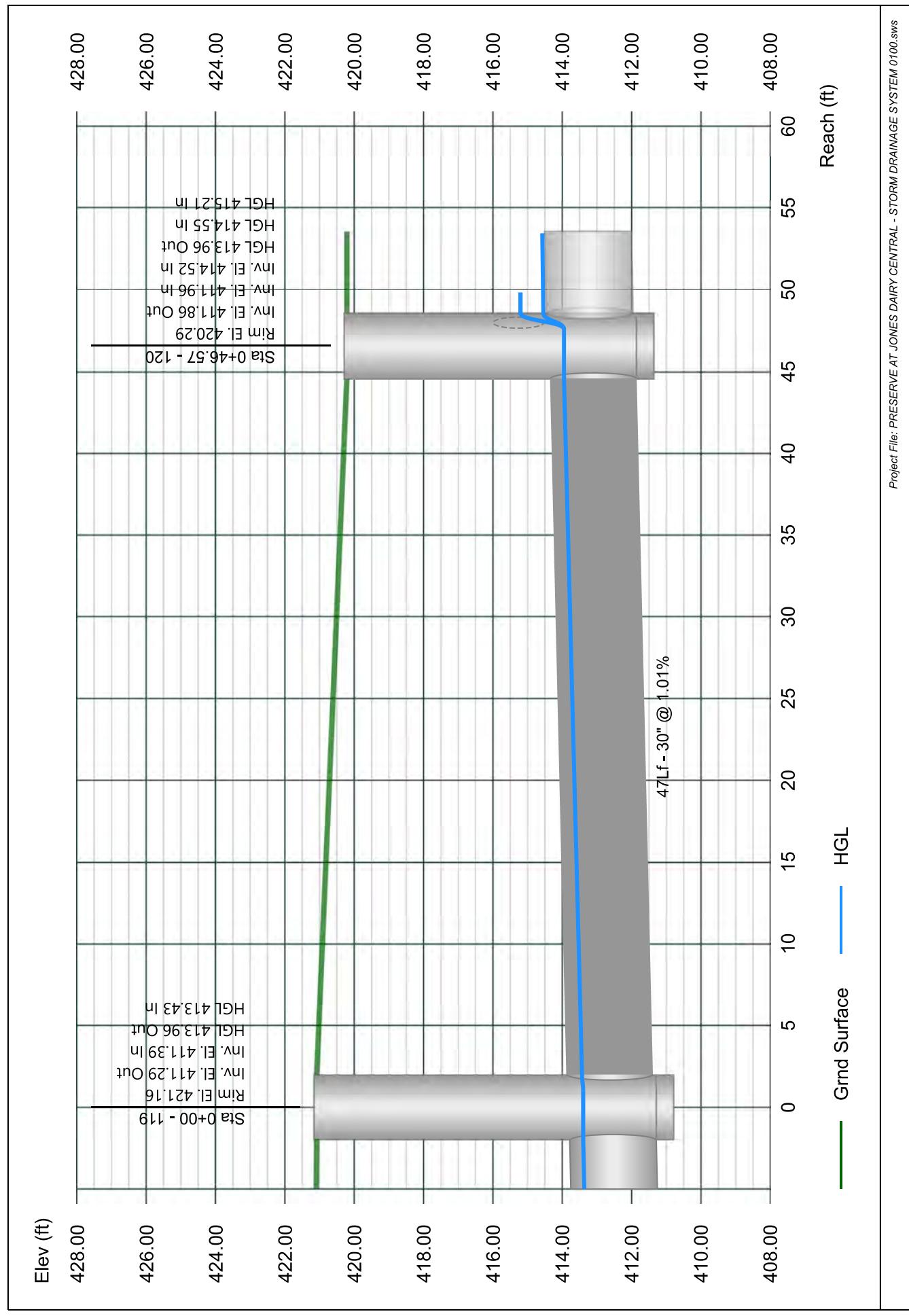


Line 20 - 120 TO 119

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

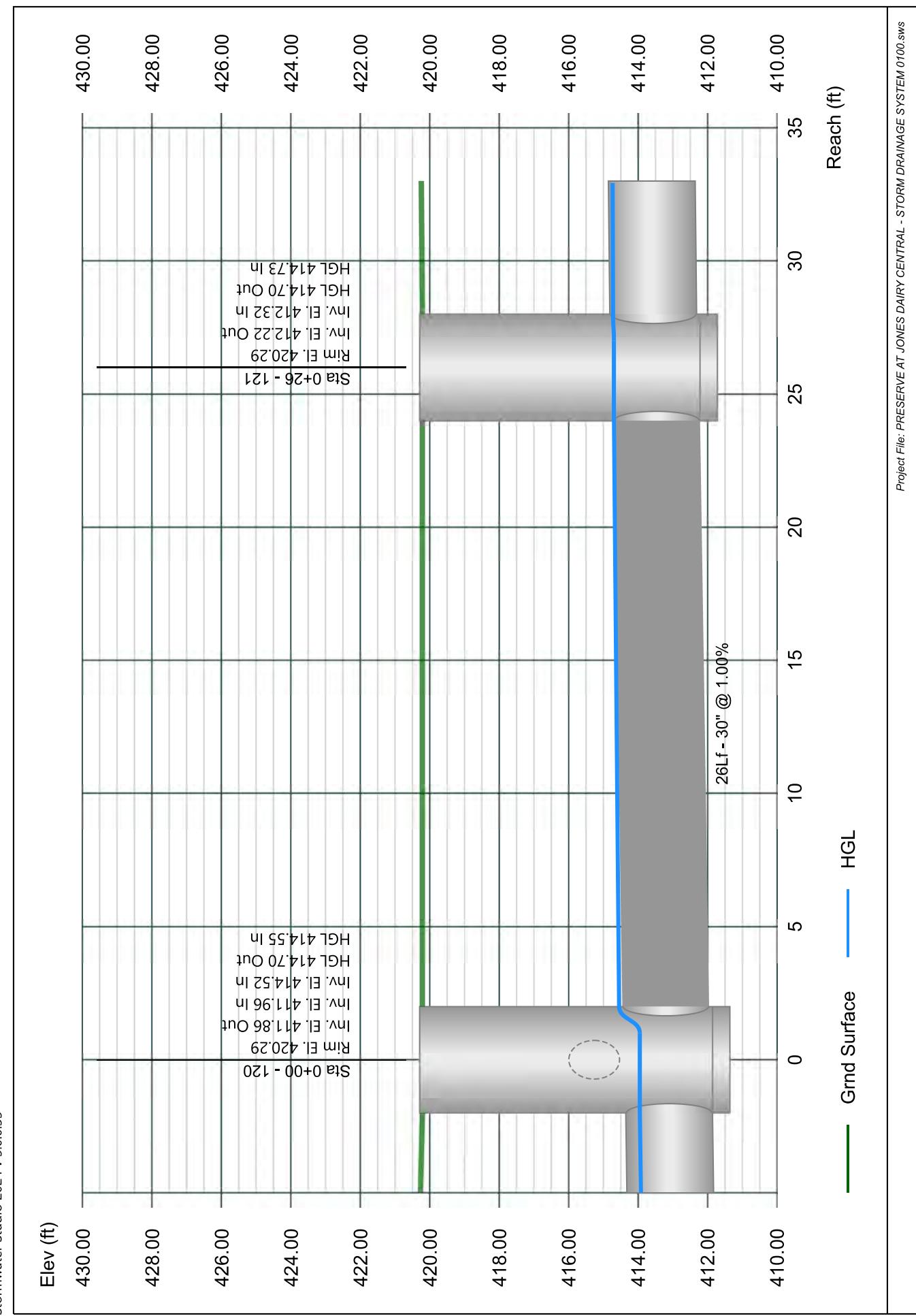


Line 21 - 121 TO 120

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

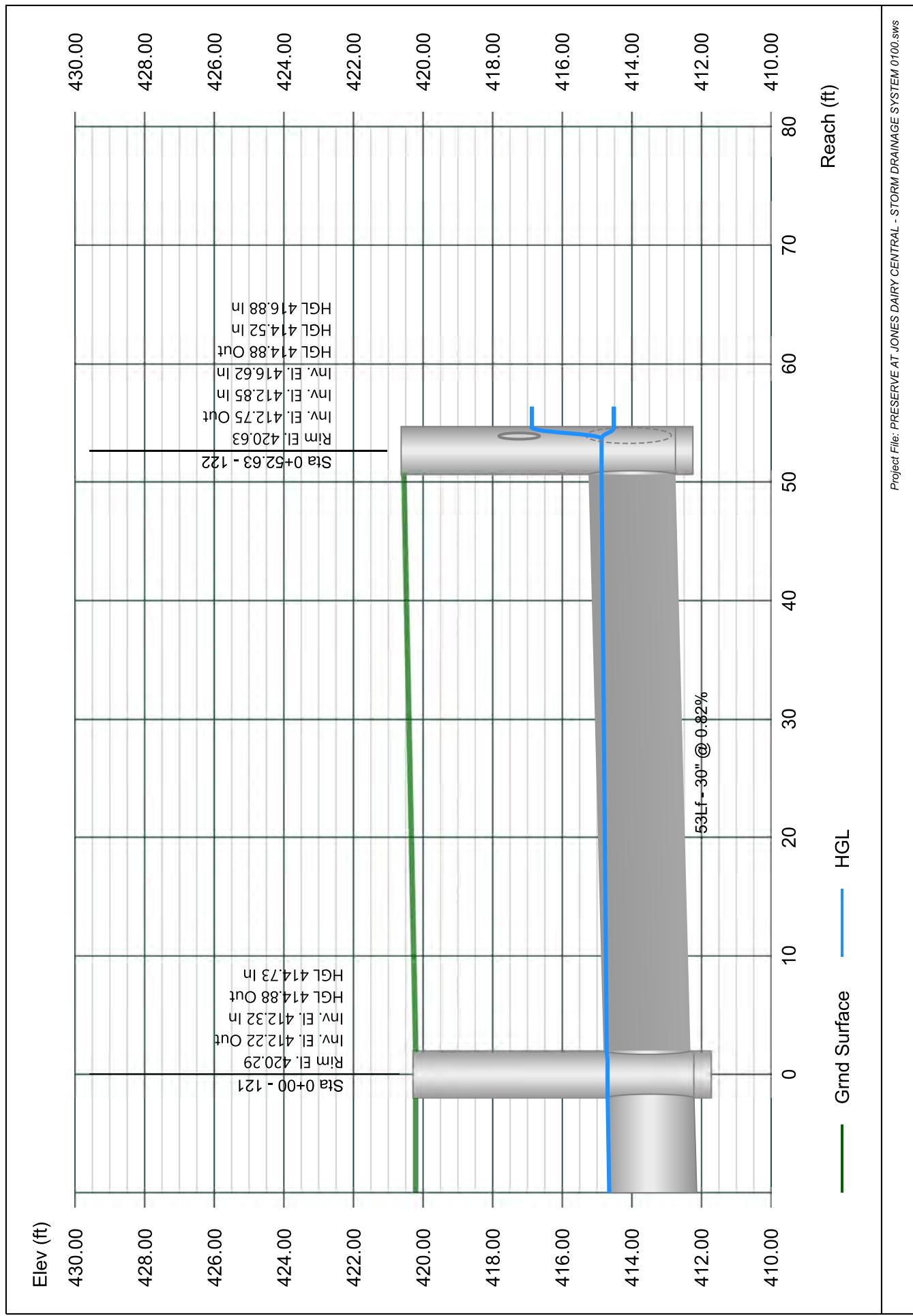


Line 22 - 122 TO 121

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

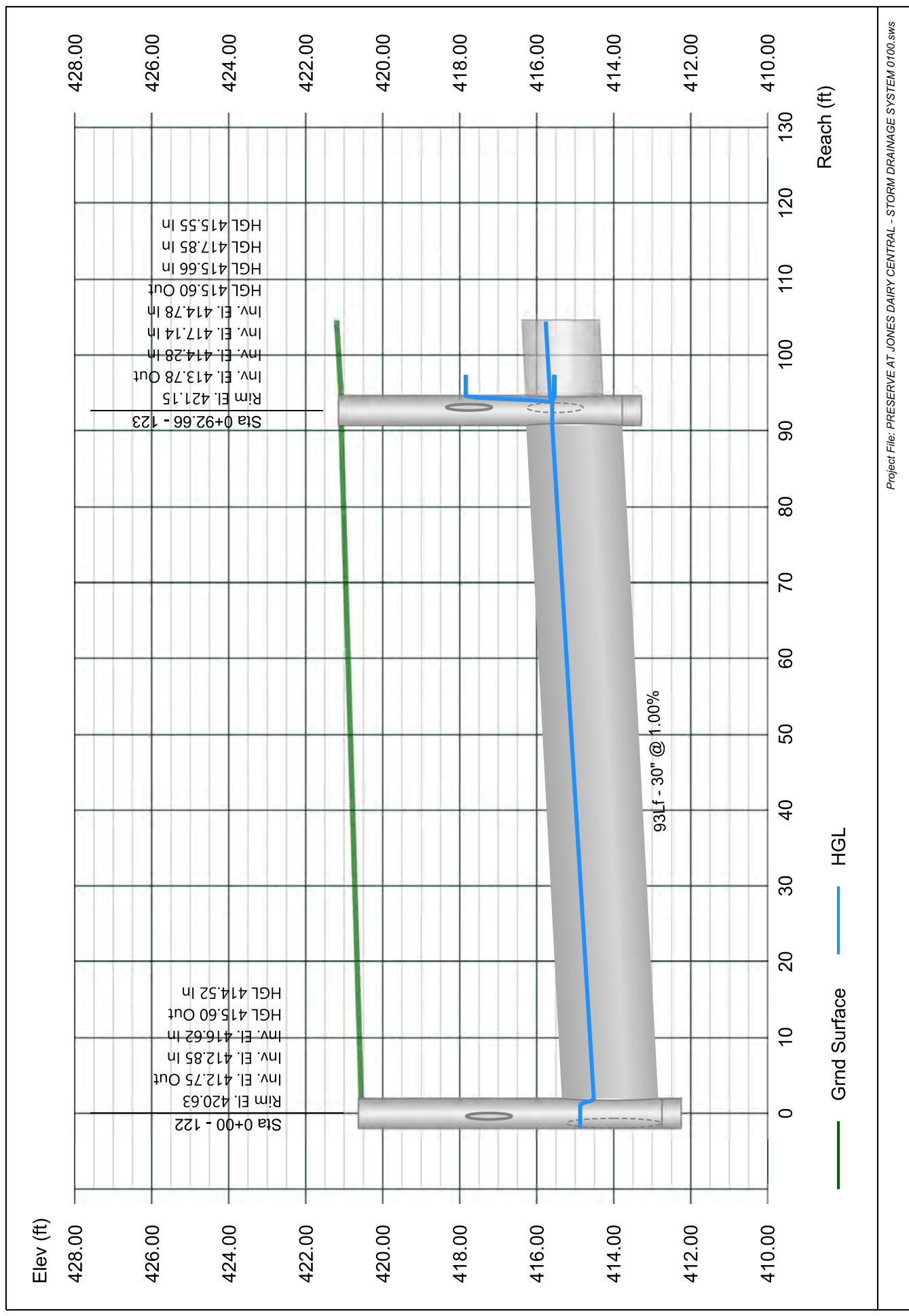


Line 23 - 123 TO 122

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

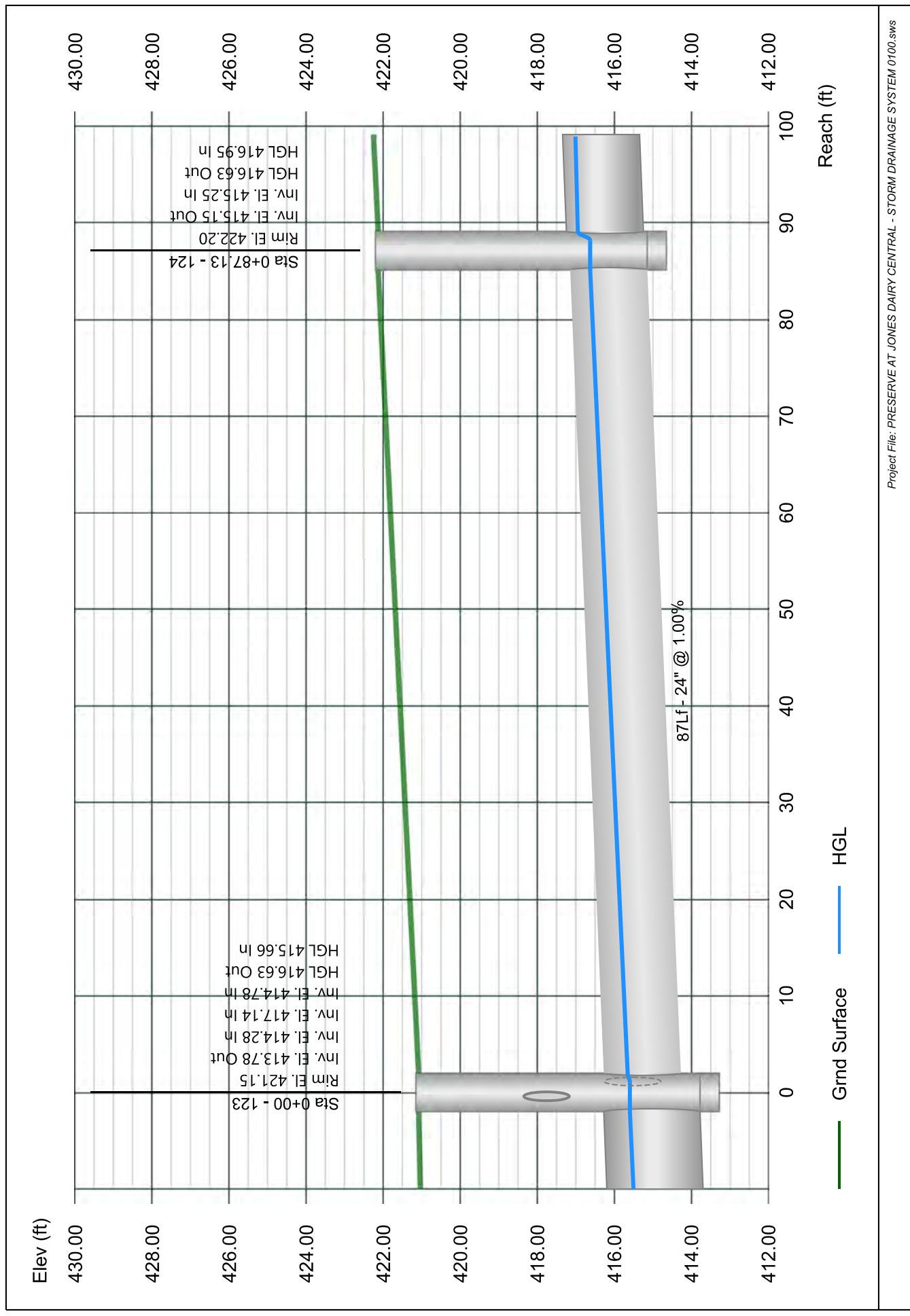


Line 24 - 124 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

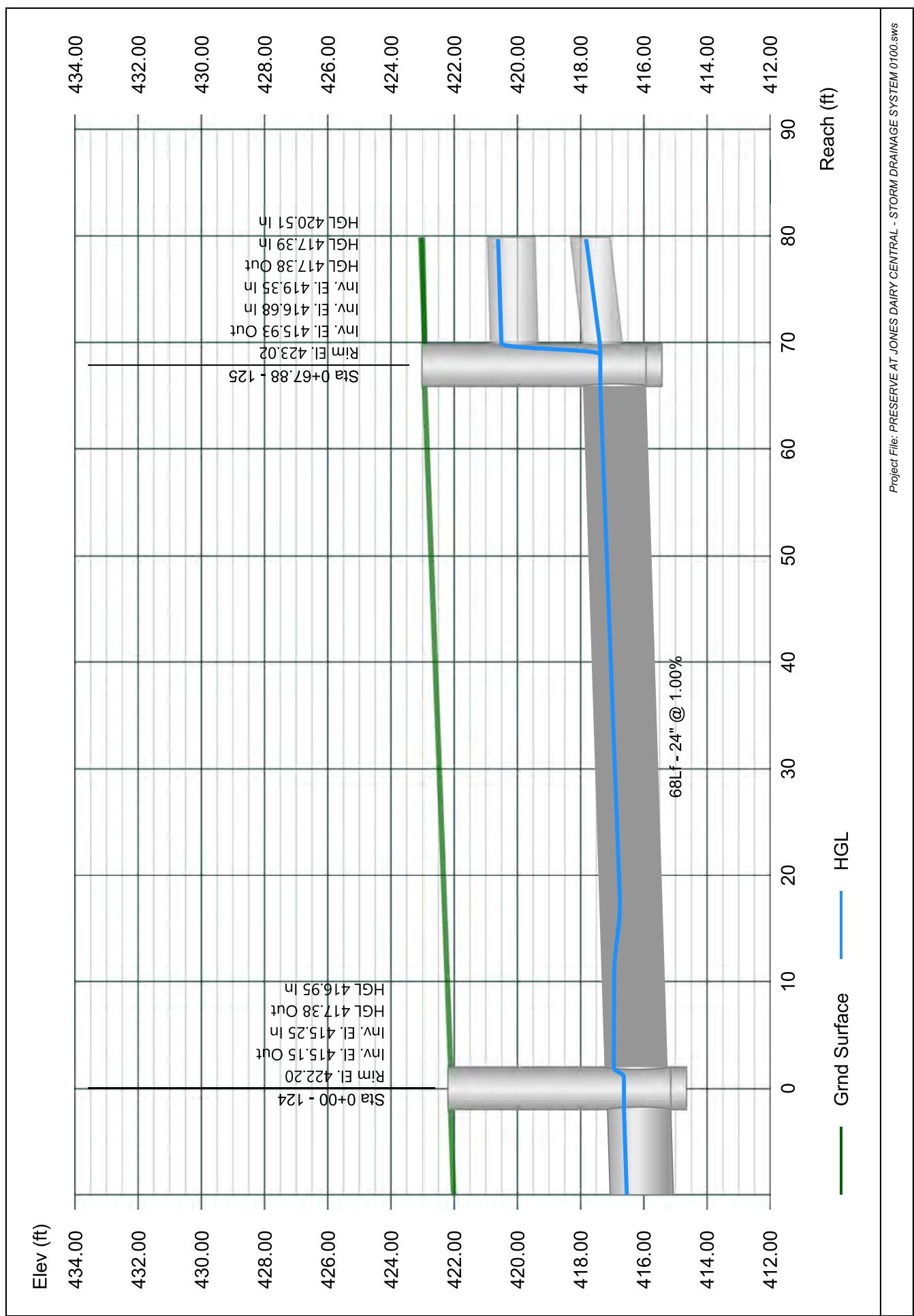


Line 25 - 125 TO 124

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

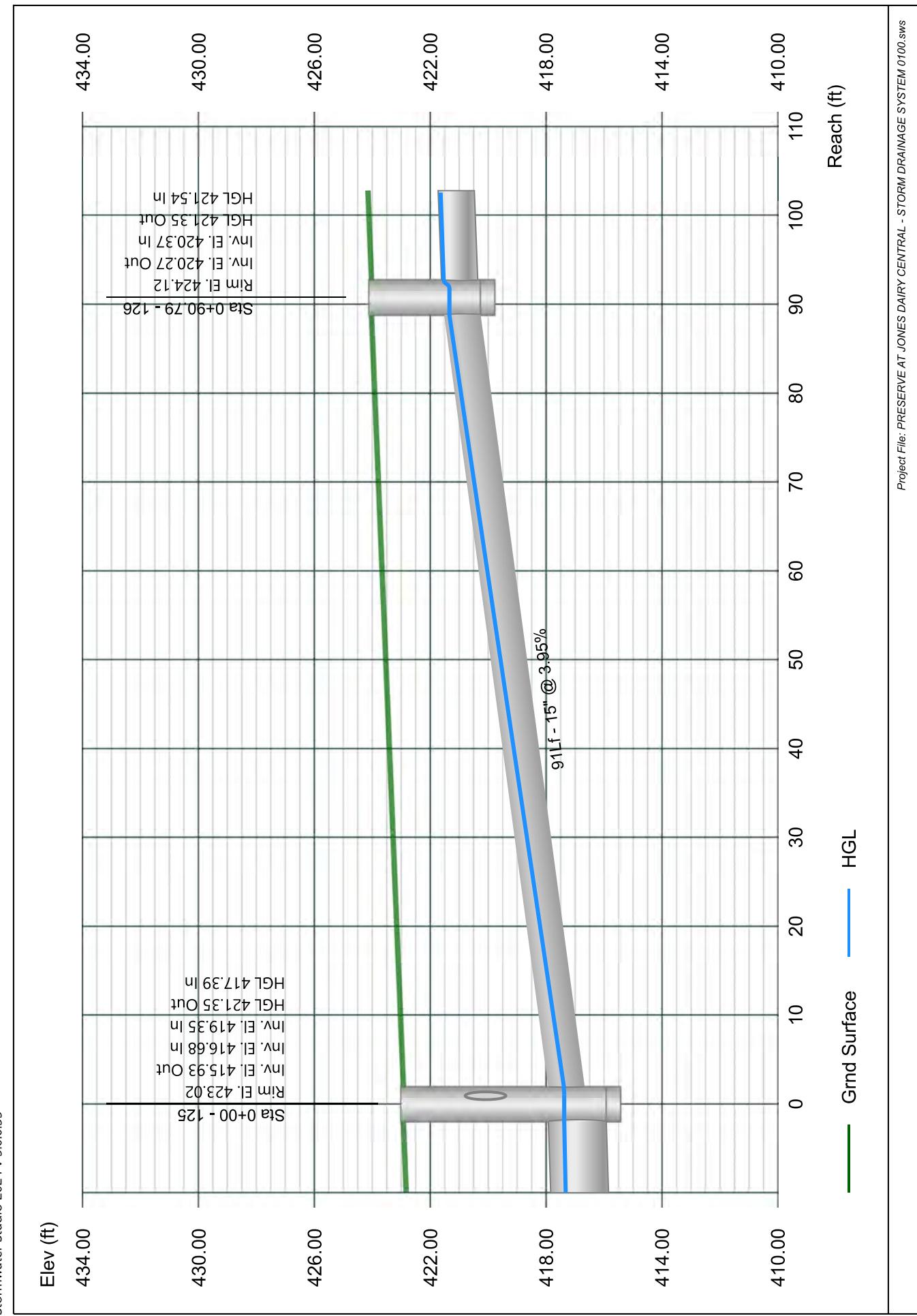


Line 26 - 126 TO 125

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

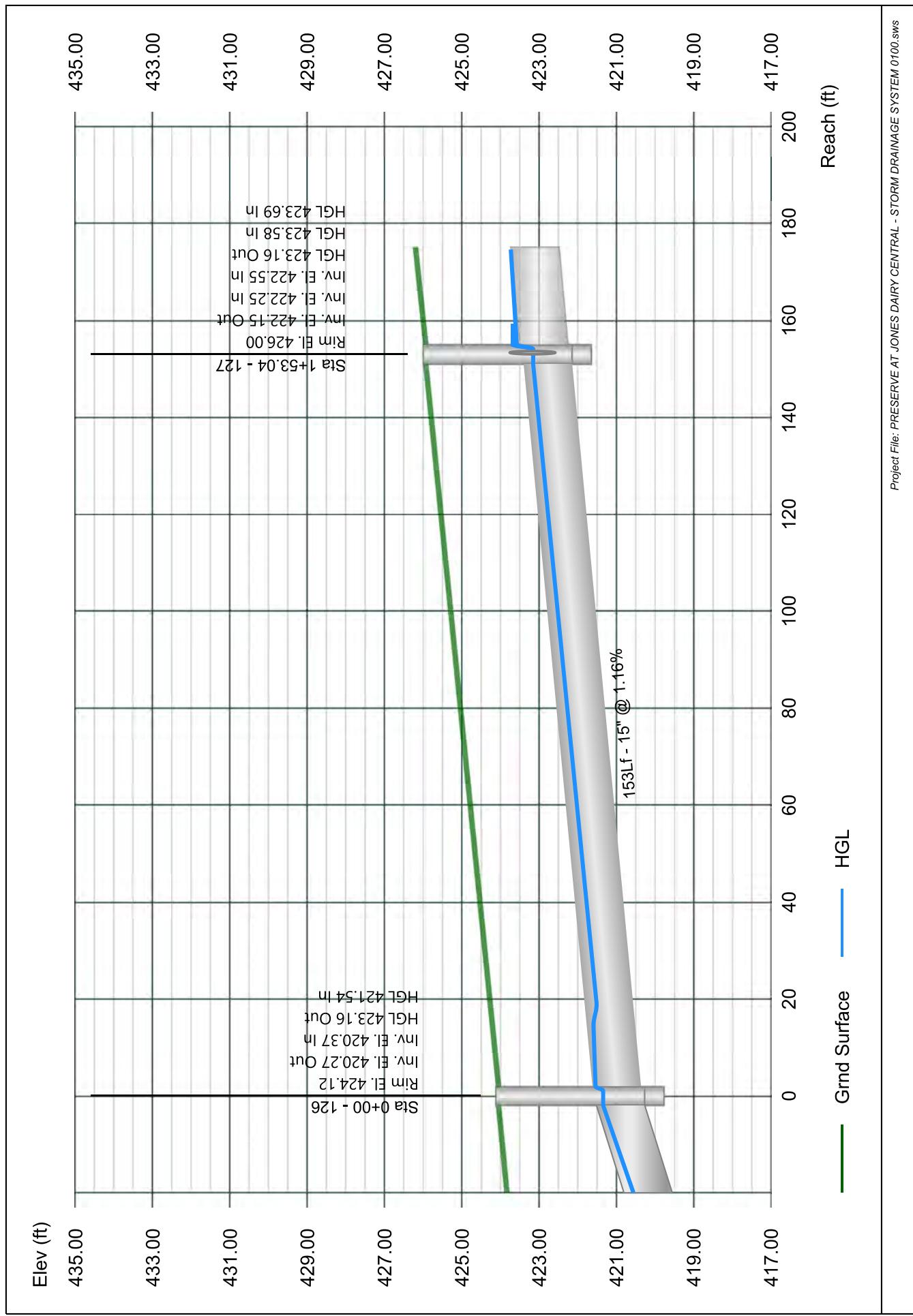


Line 27 - 127 TO 126

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

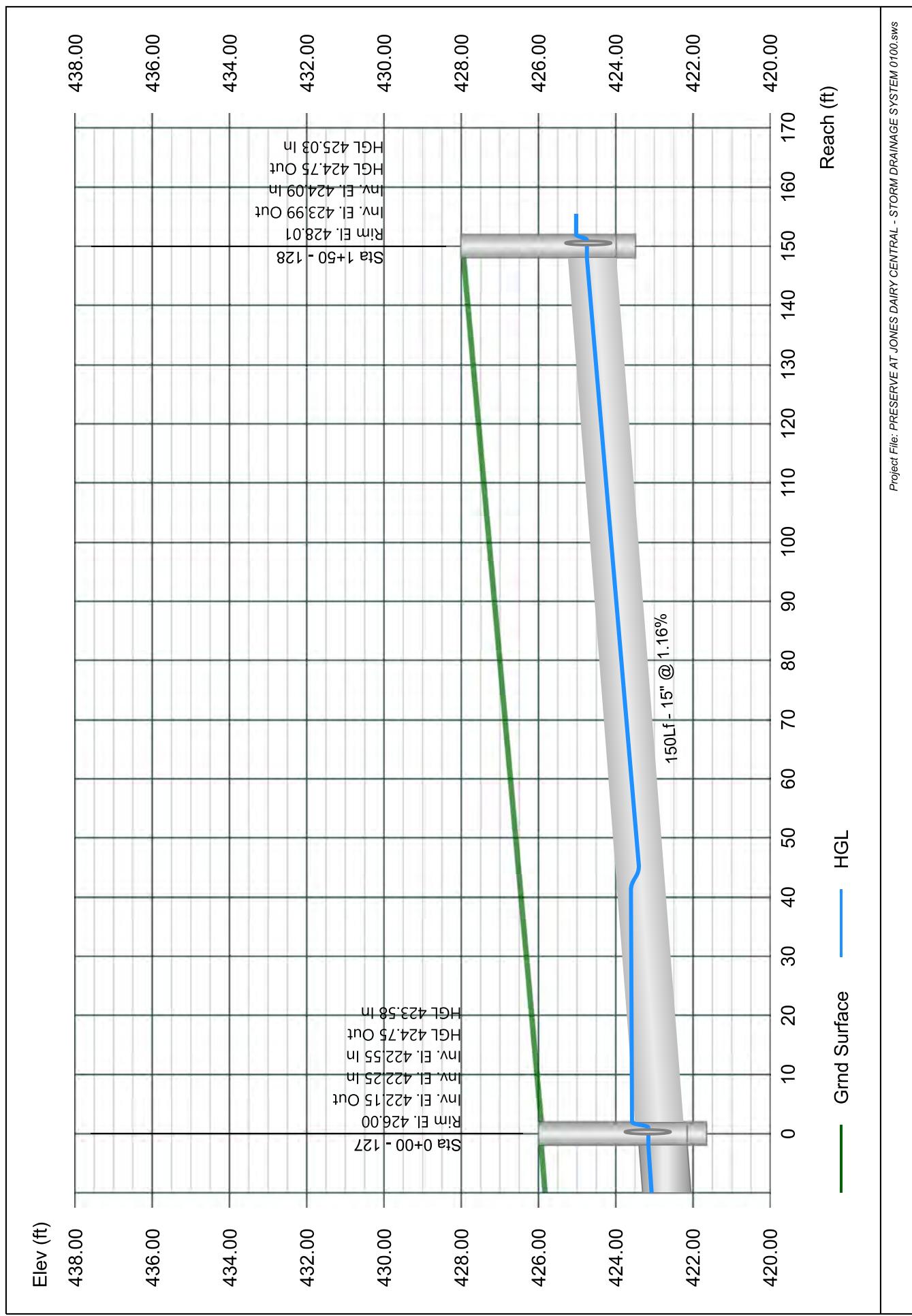


Line 28 - 128 TO 127

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

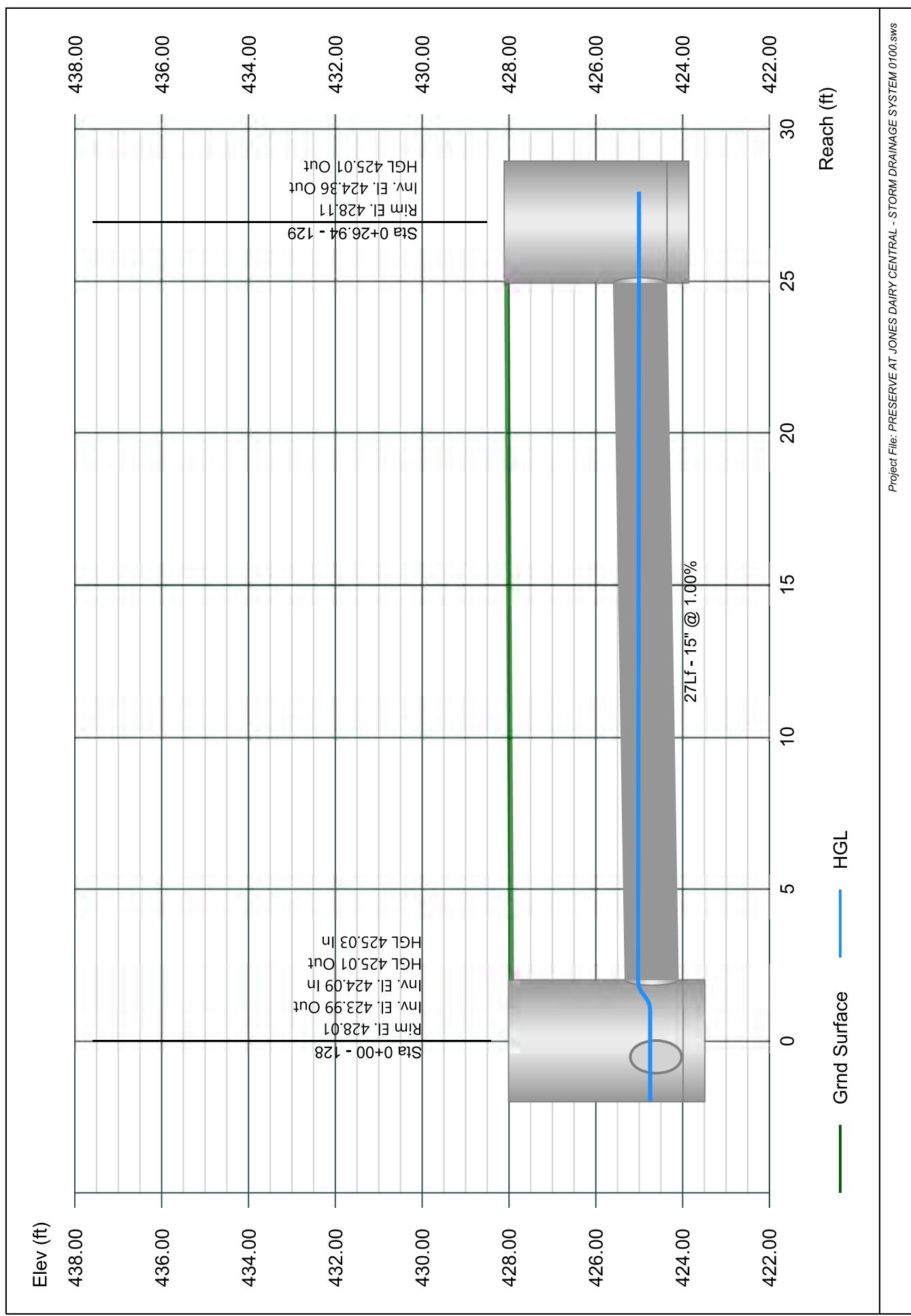


Line 29 - 129 TO 128

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

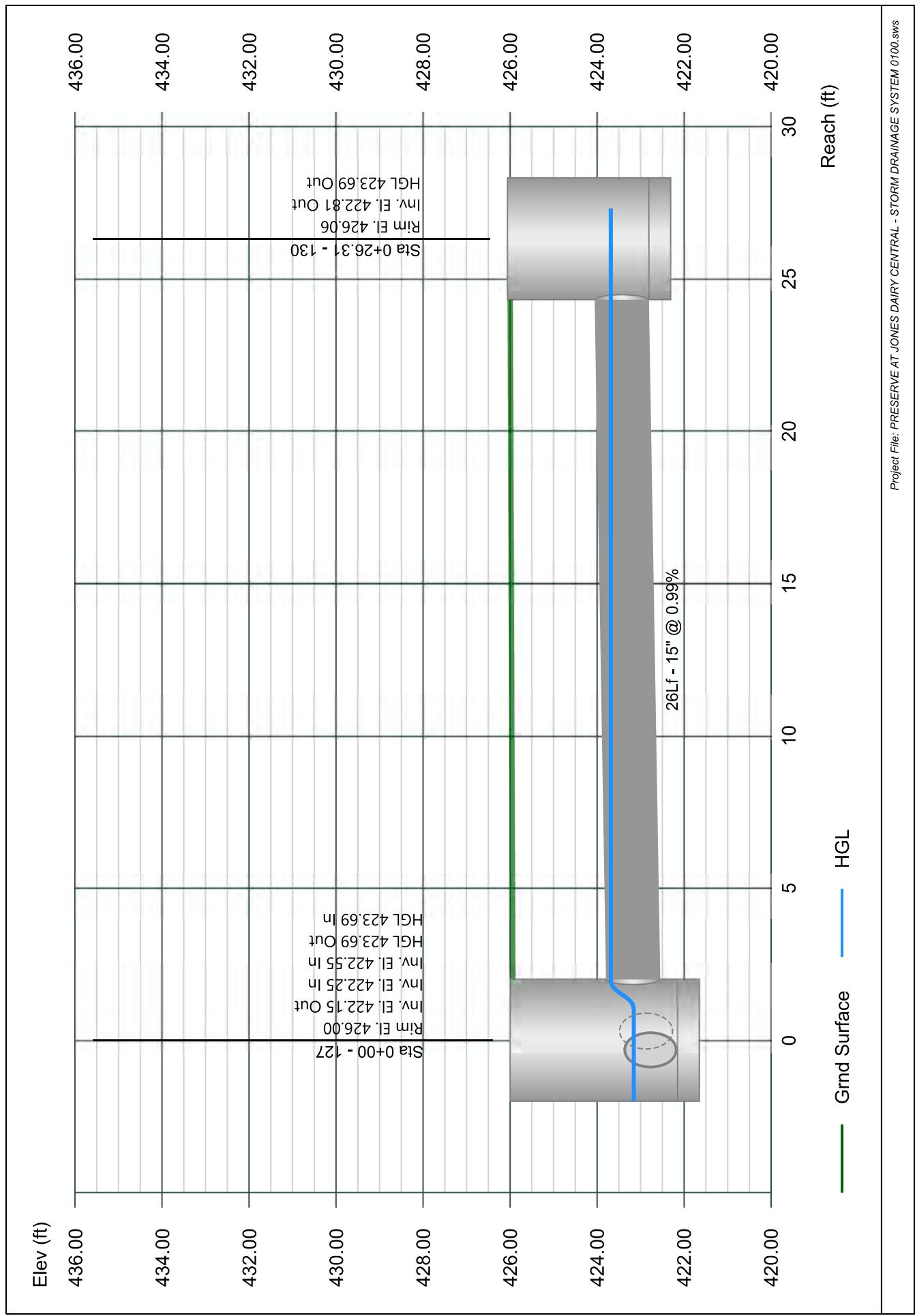


Line 30 - 130 TO 127

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

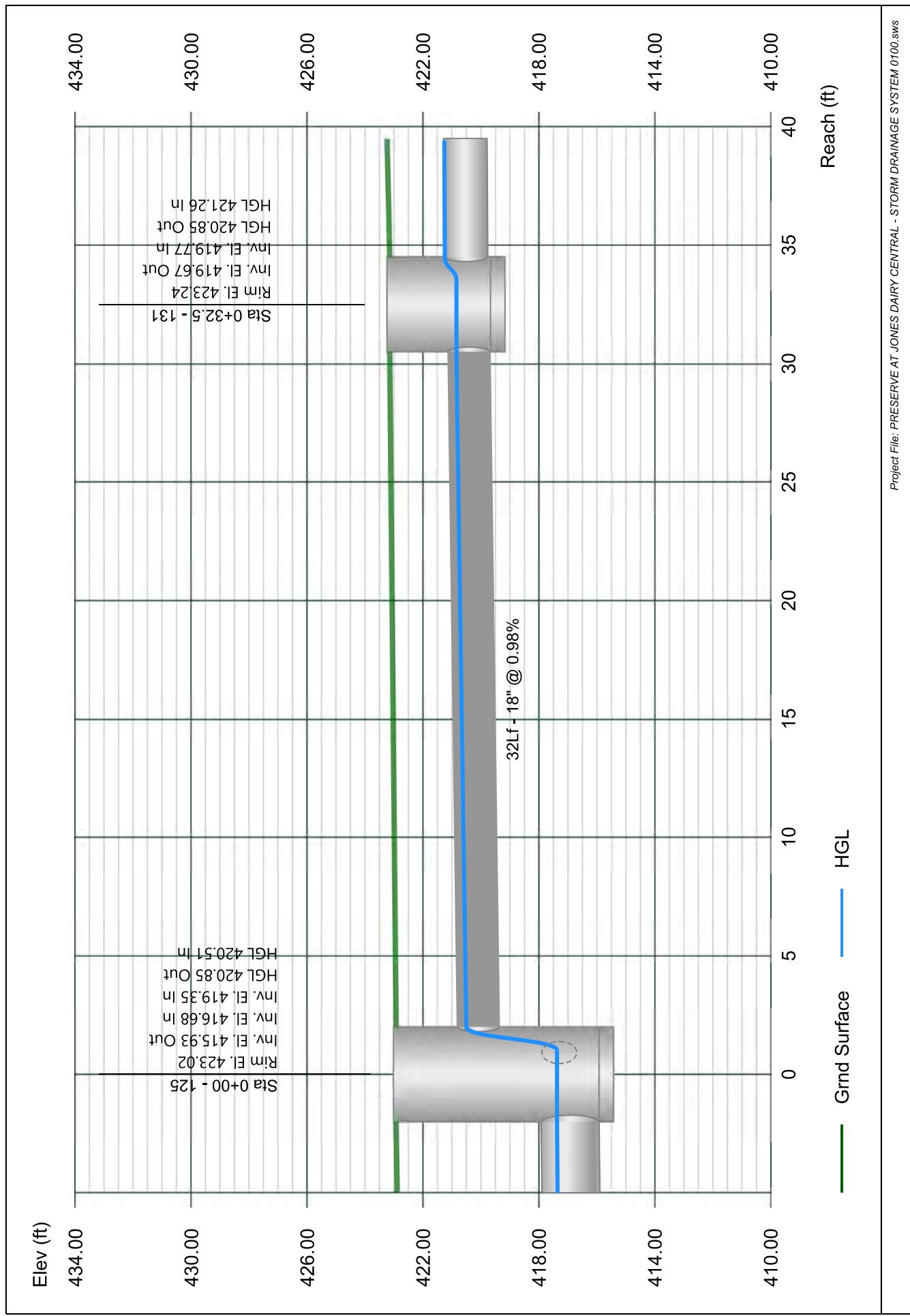


Line 31 - 131 TO 125

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

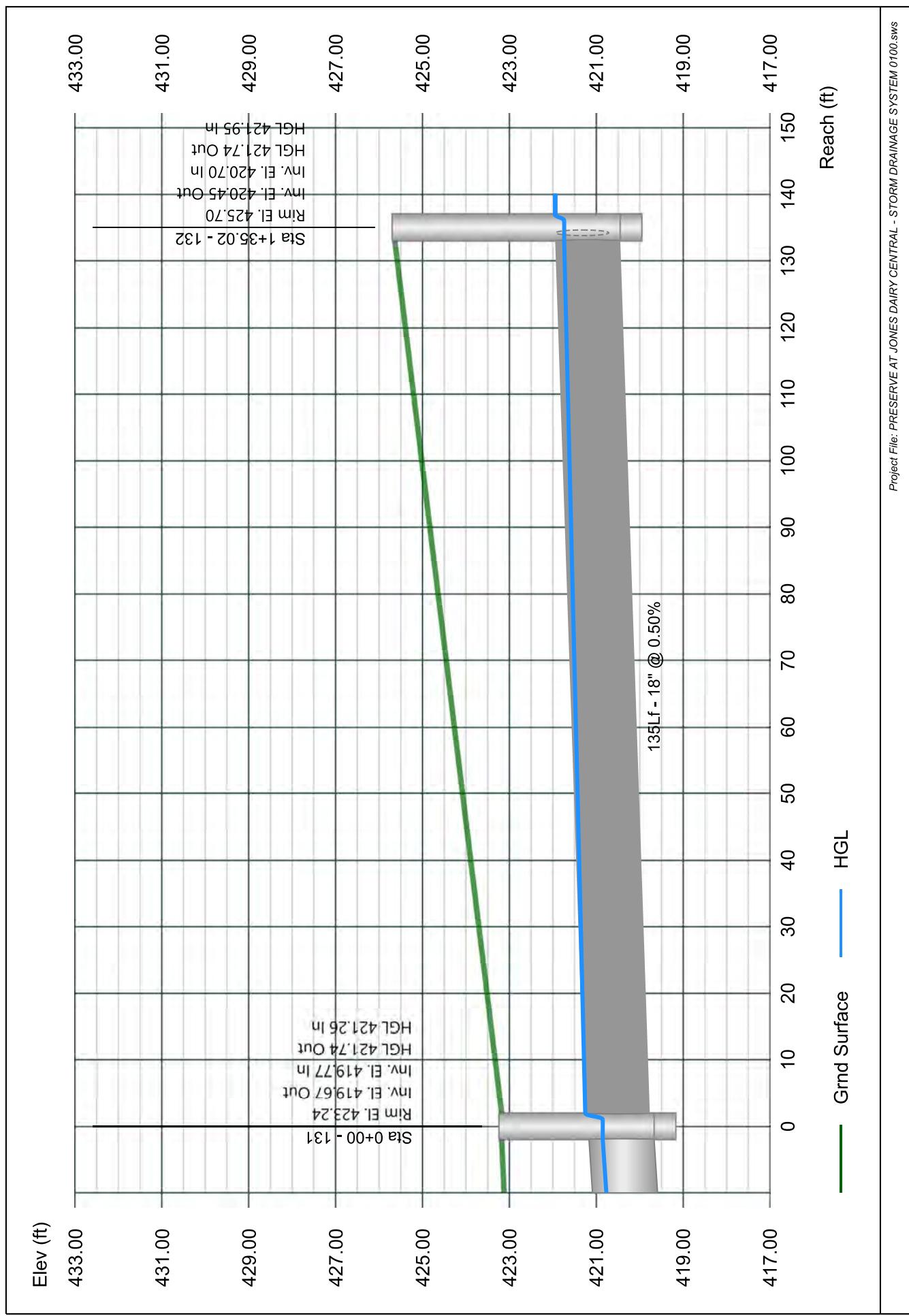


Line 32 - 132 TO 131

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

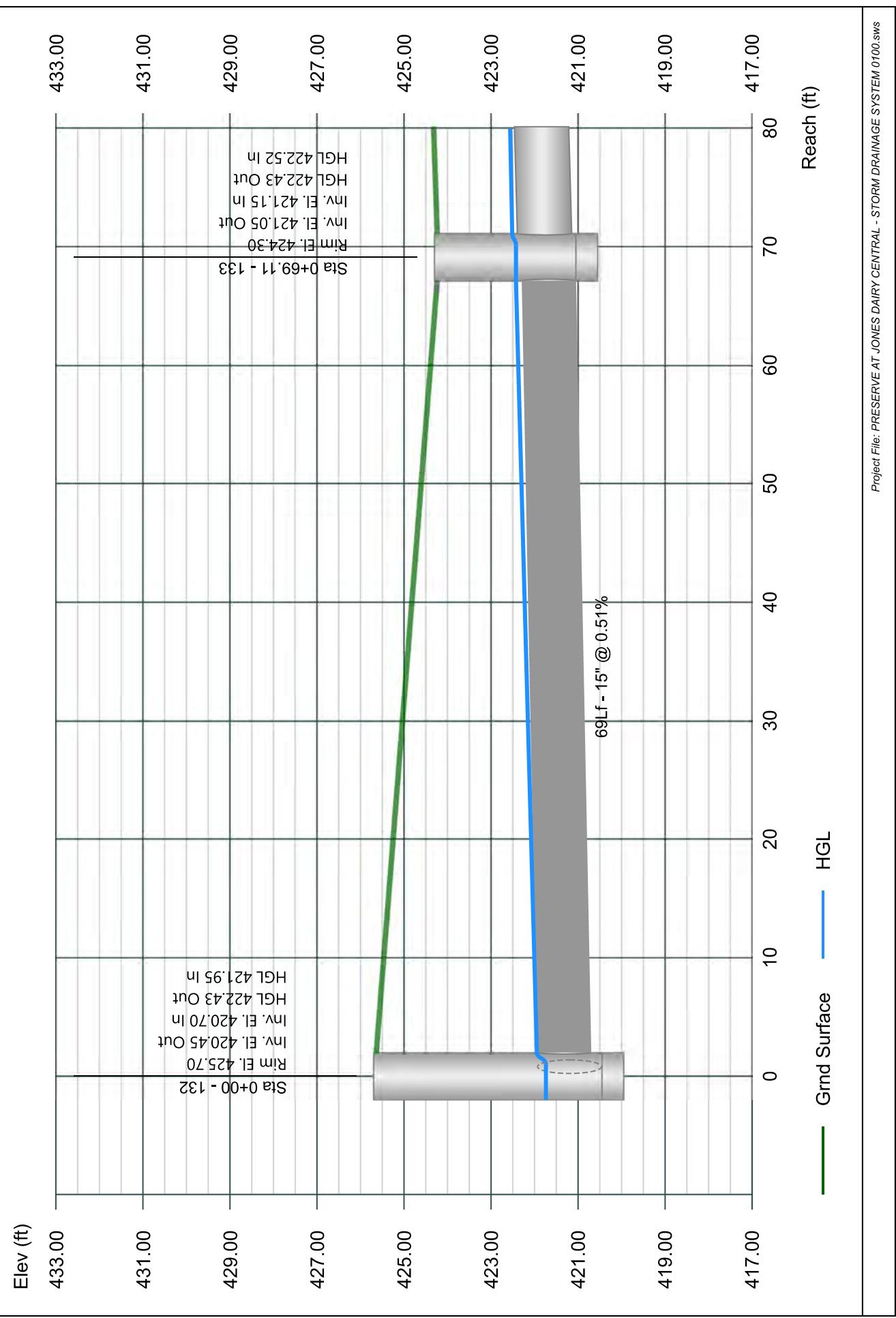


Line 33 - 133 TO 132

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

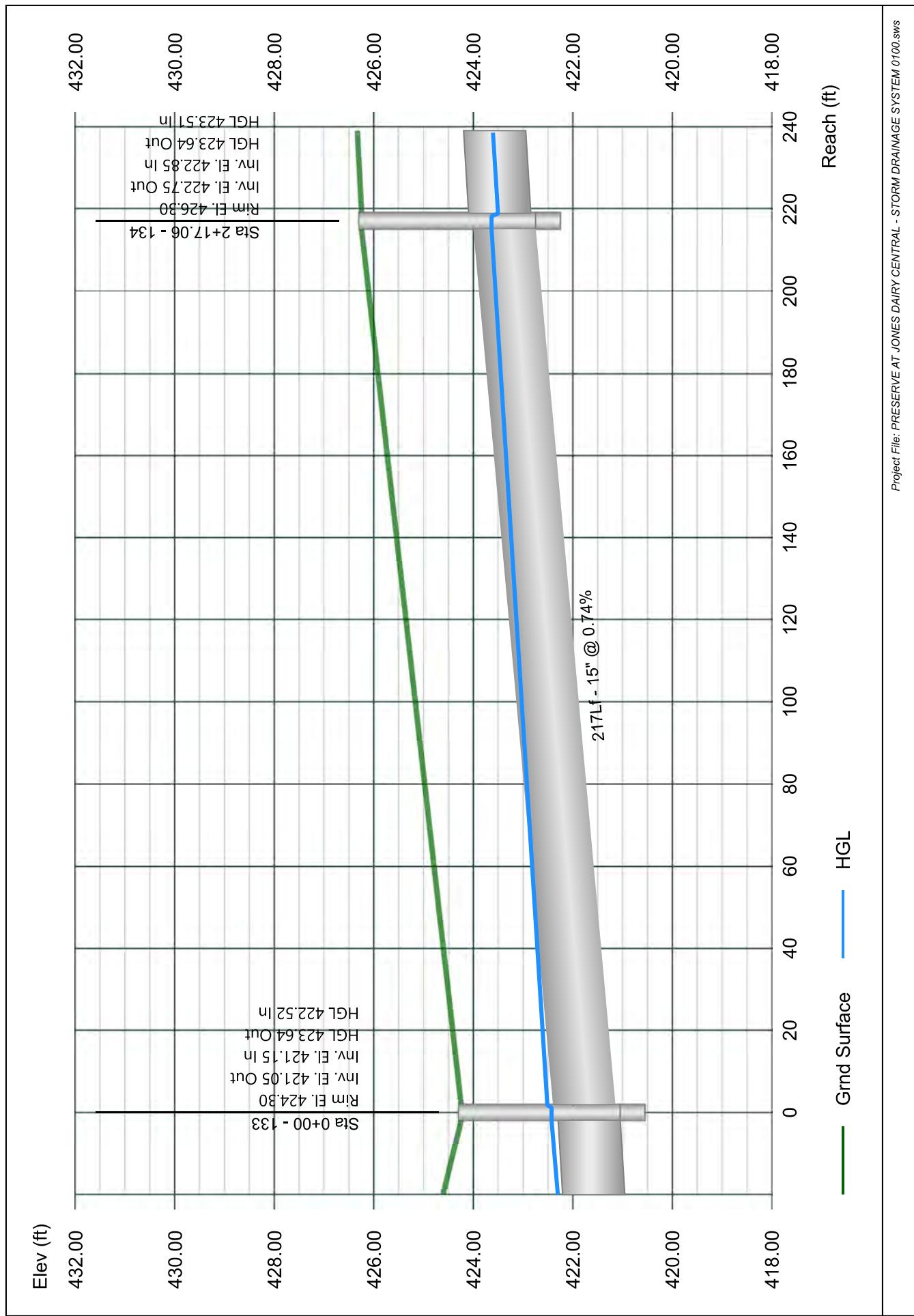


Line 34 - 134 TO 133

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

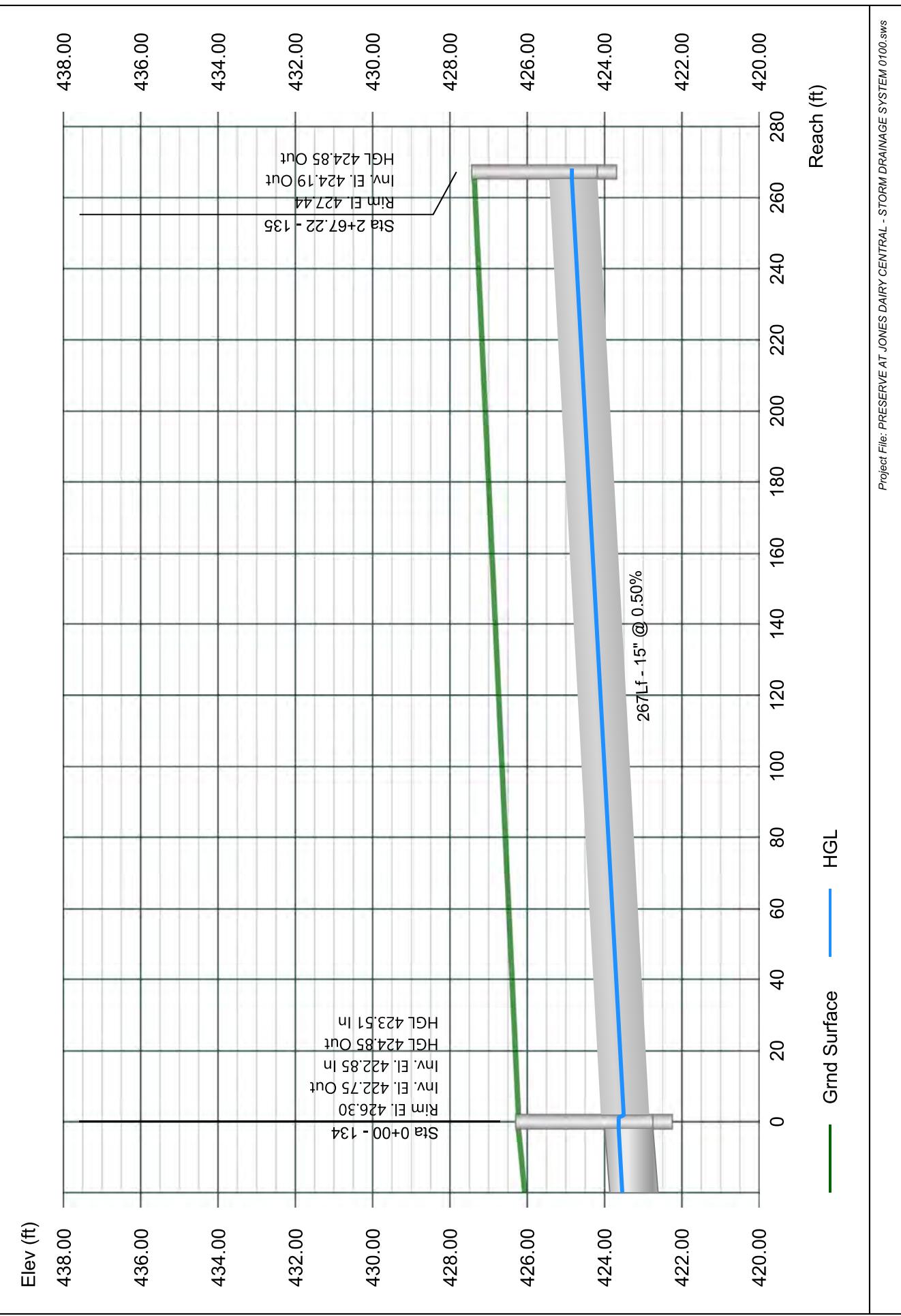


Line 35 - 135 TO 134

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

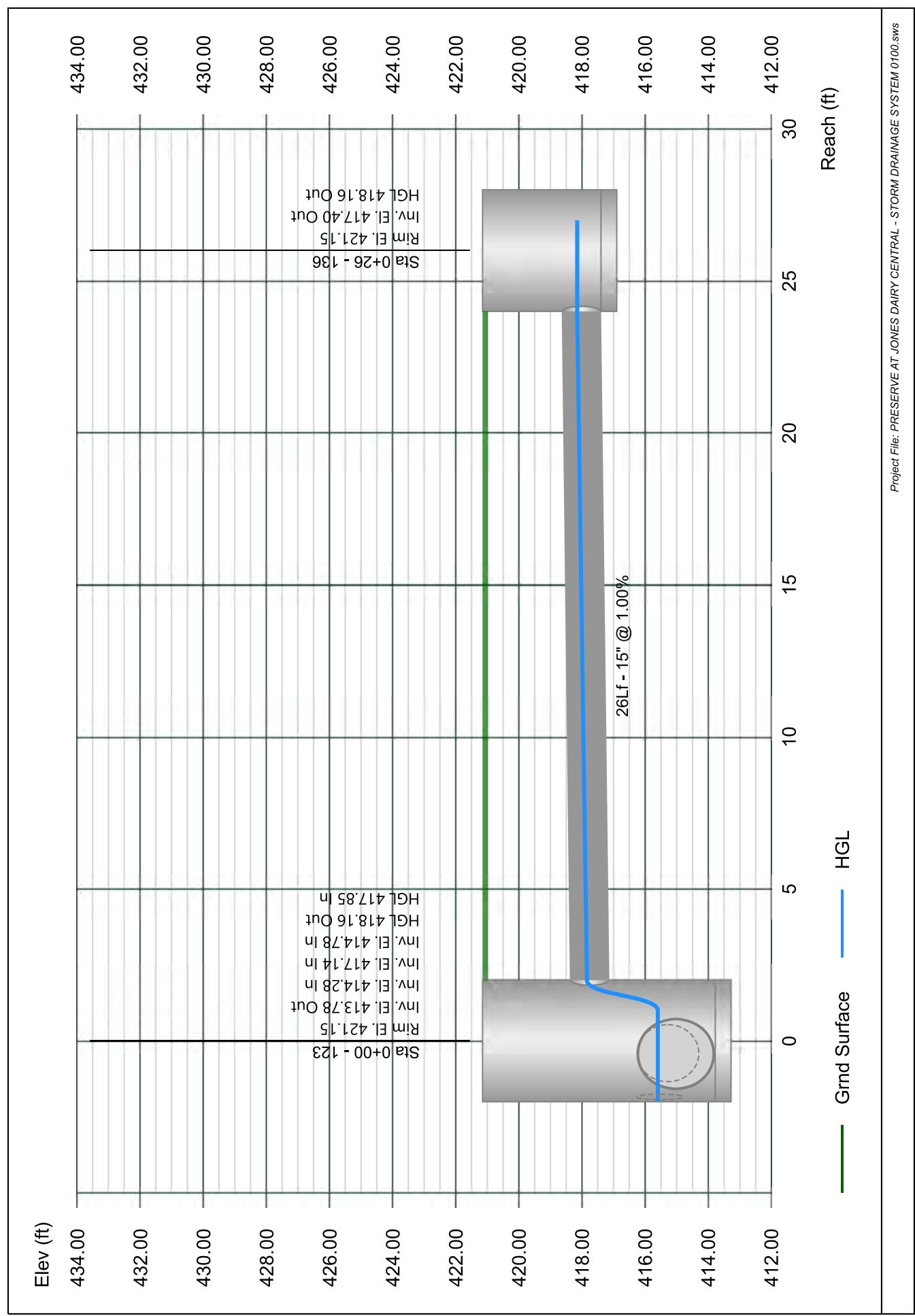


Line 36 - 136 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

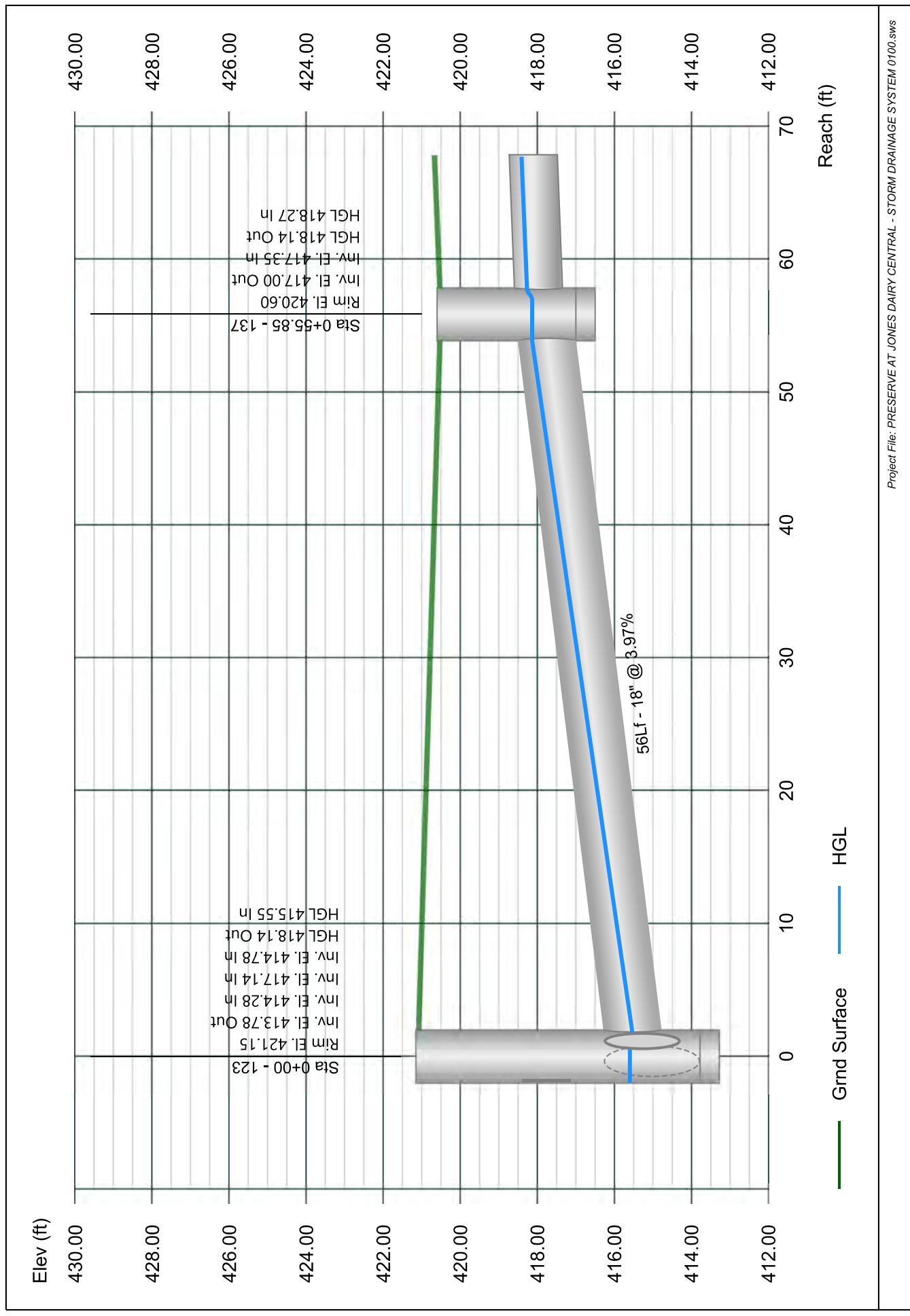


Line 37 - 137 TO 123

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

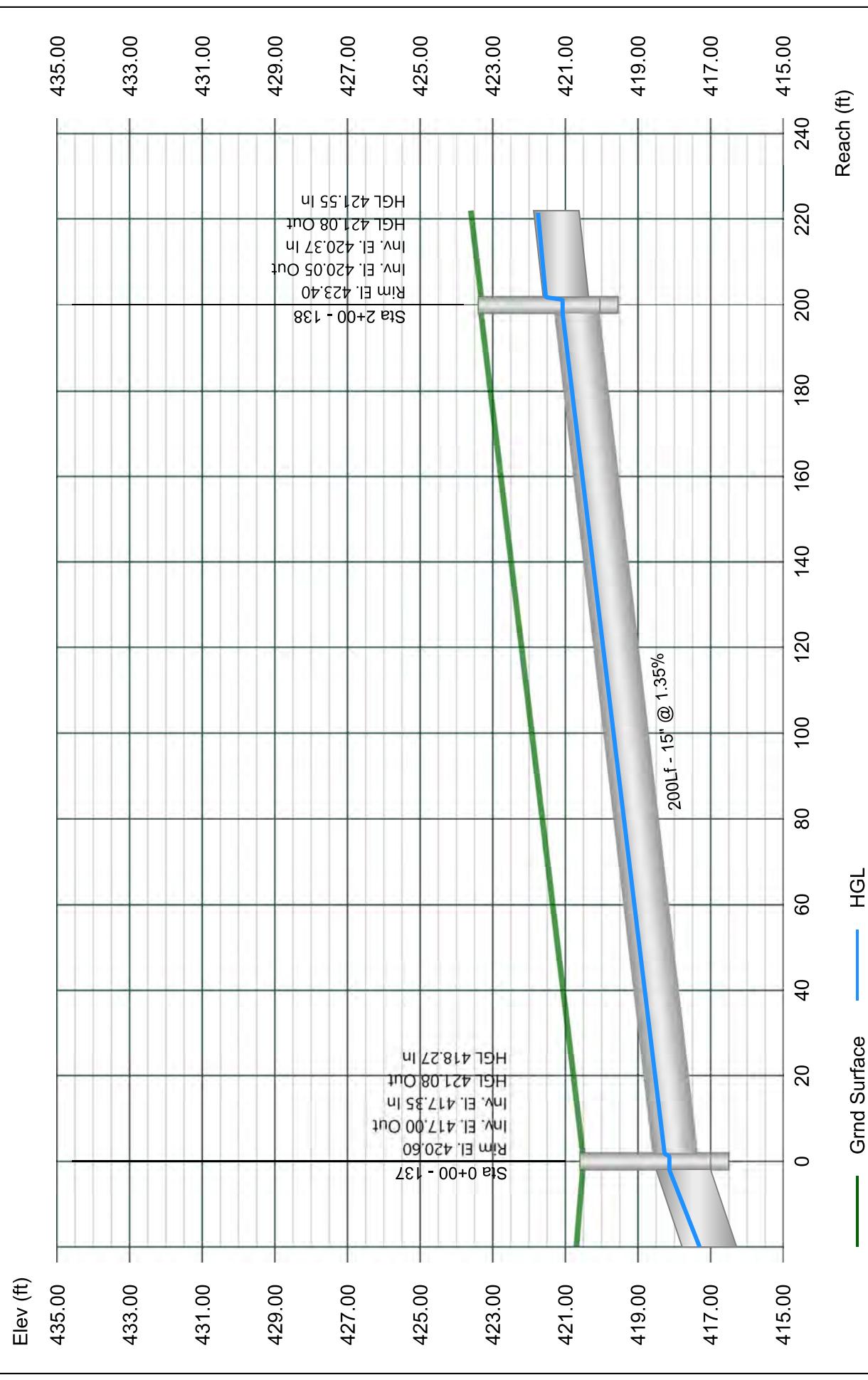


Line 38 - 138 TO 137

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

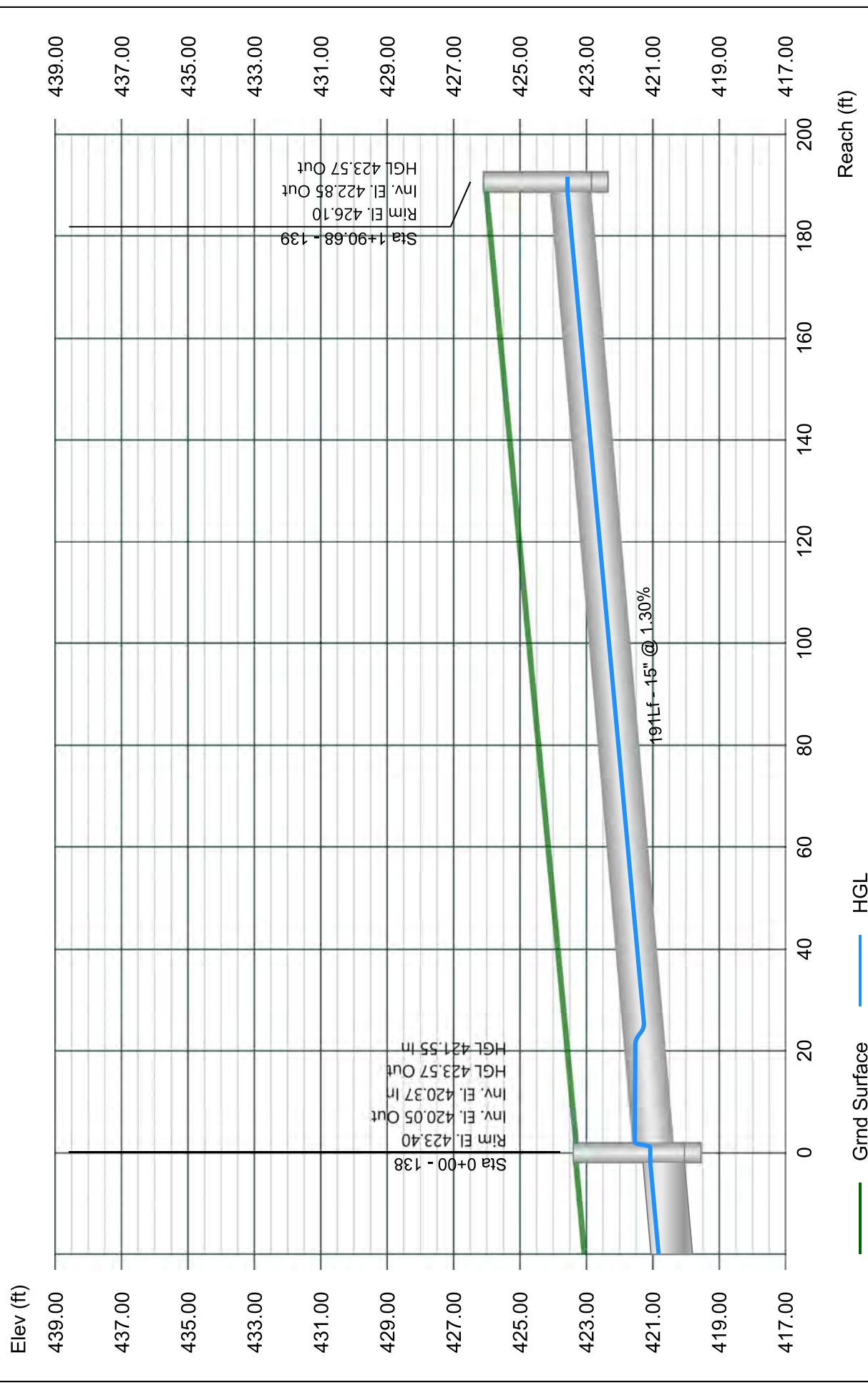


Line 39 - 139 TO 138

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

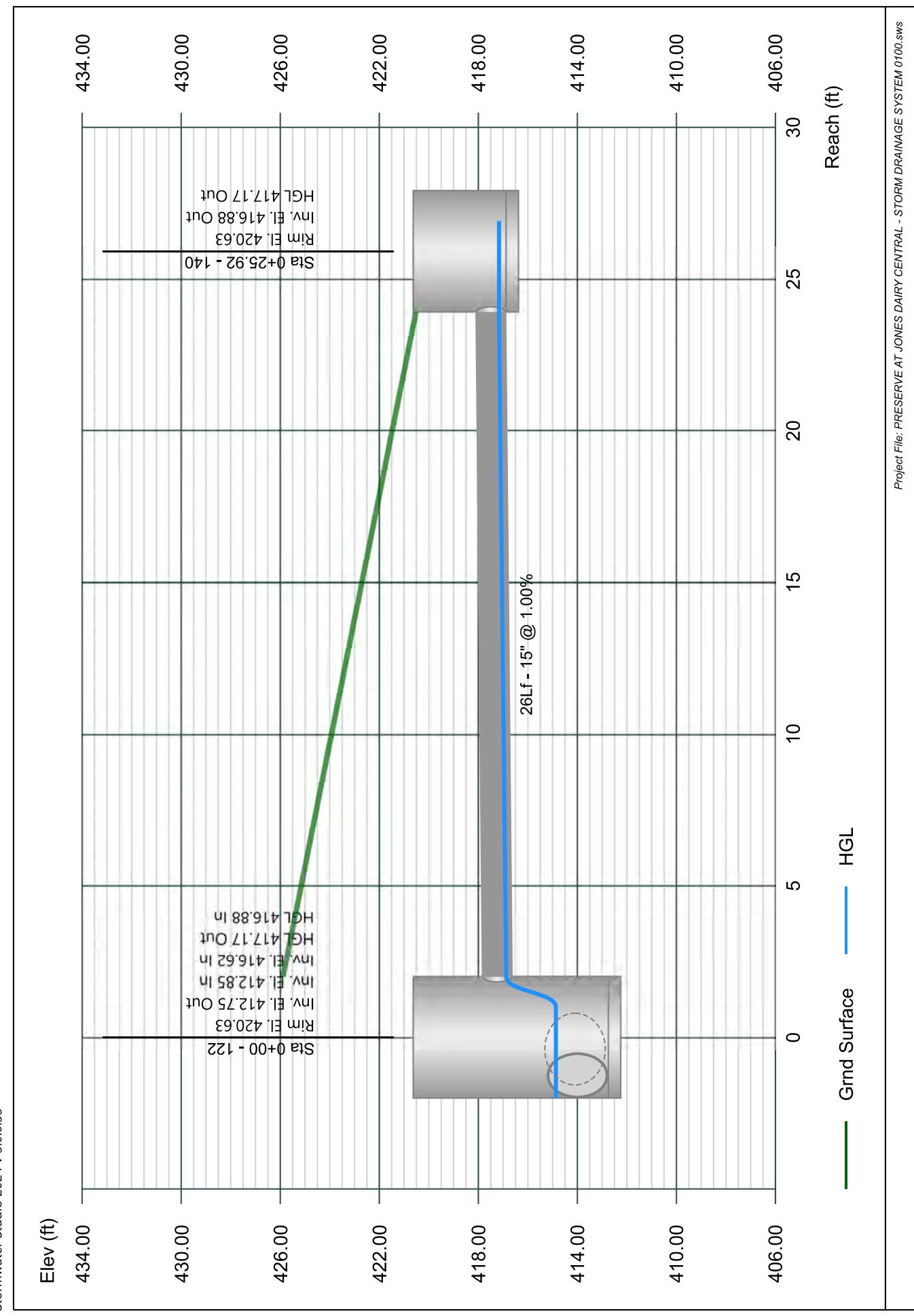


Line 40 - 140 TO 122

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

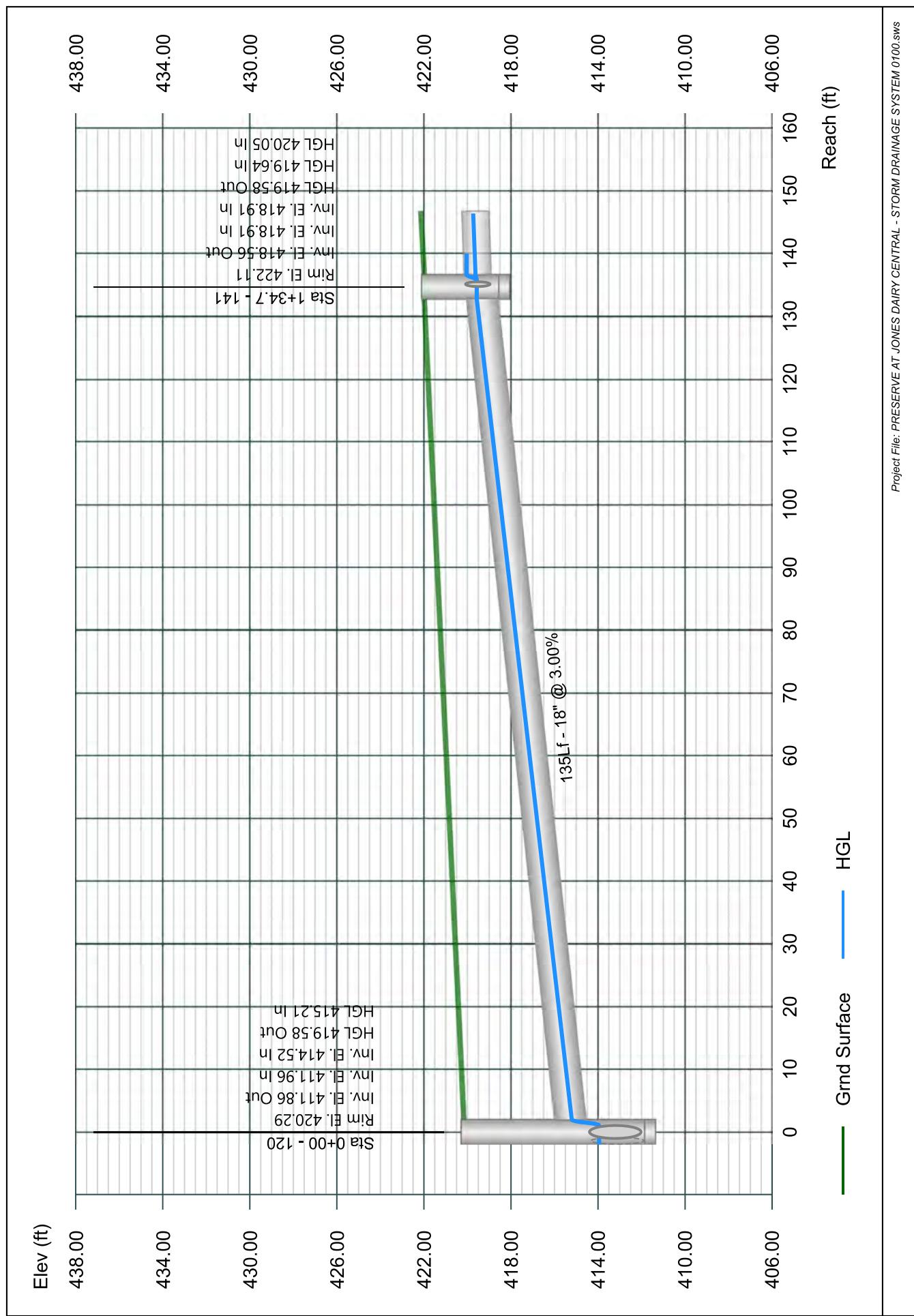


Line 41 - 141 TO 120

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

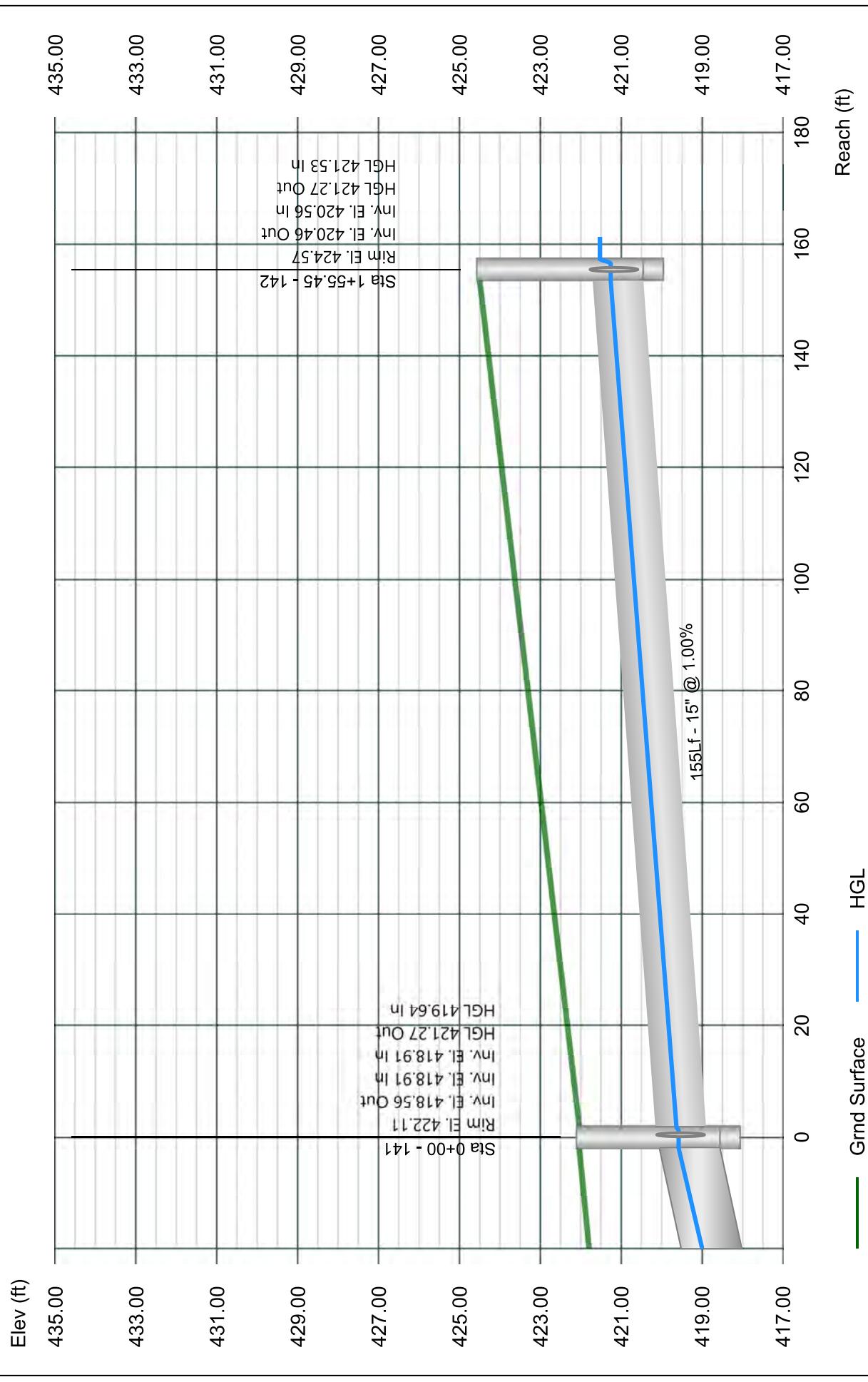


Line 42 - 142 TO 141

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

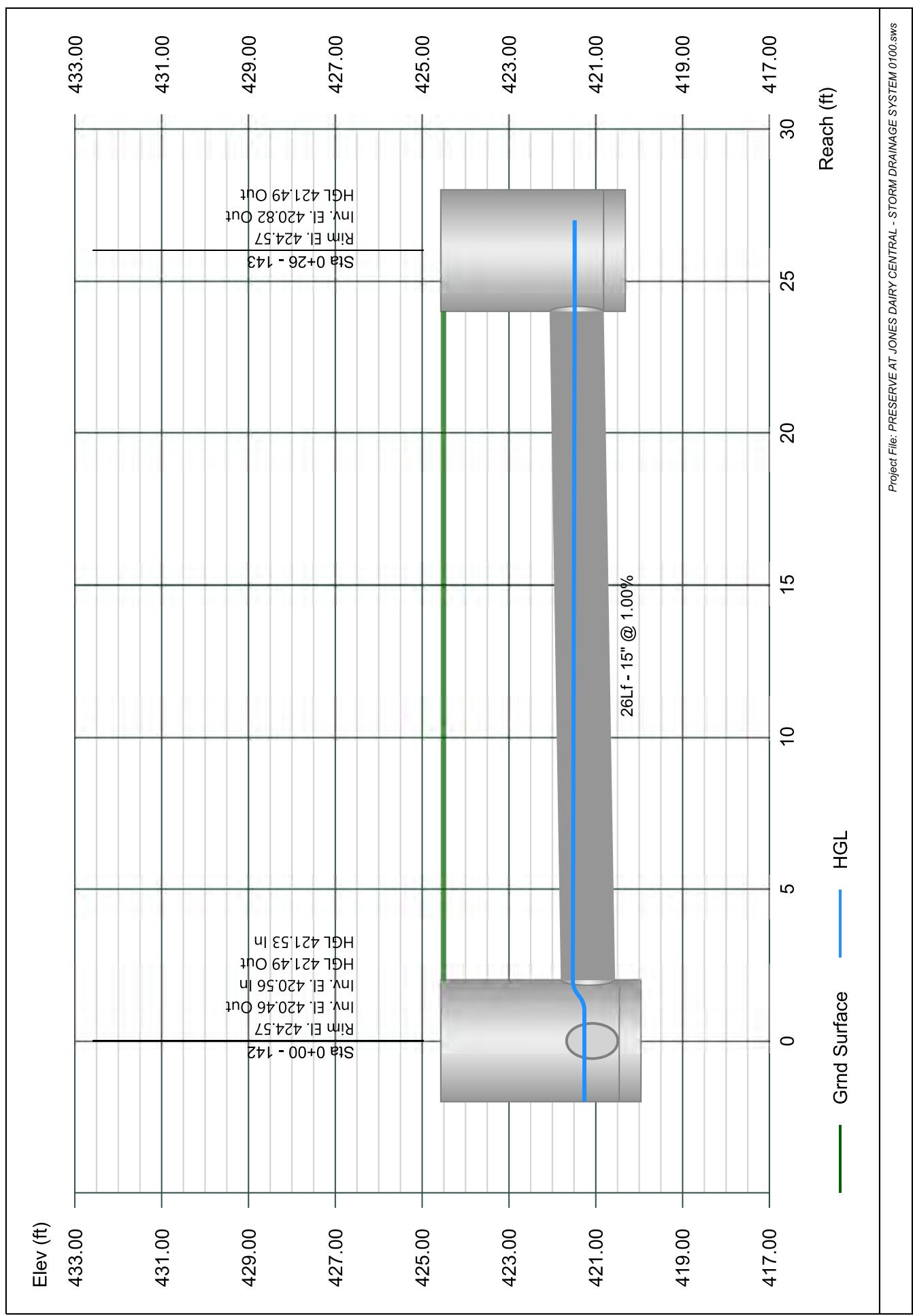


Line 43 - 143 TO 142

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

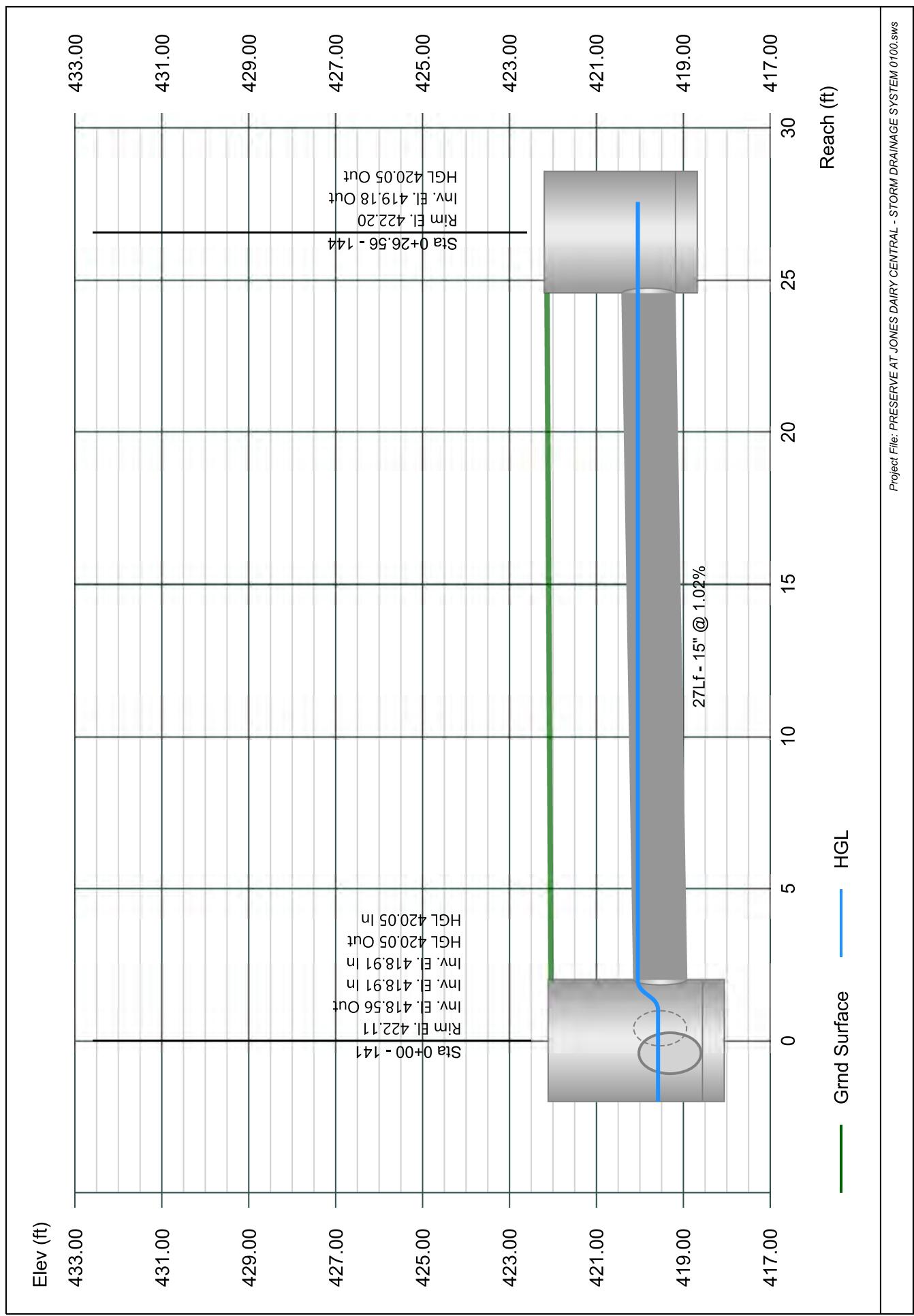


Line 44 - 144 TO 141

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

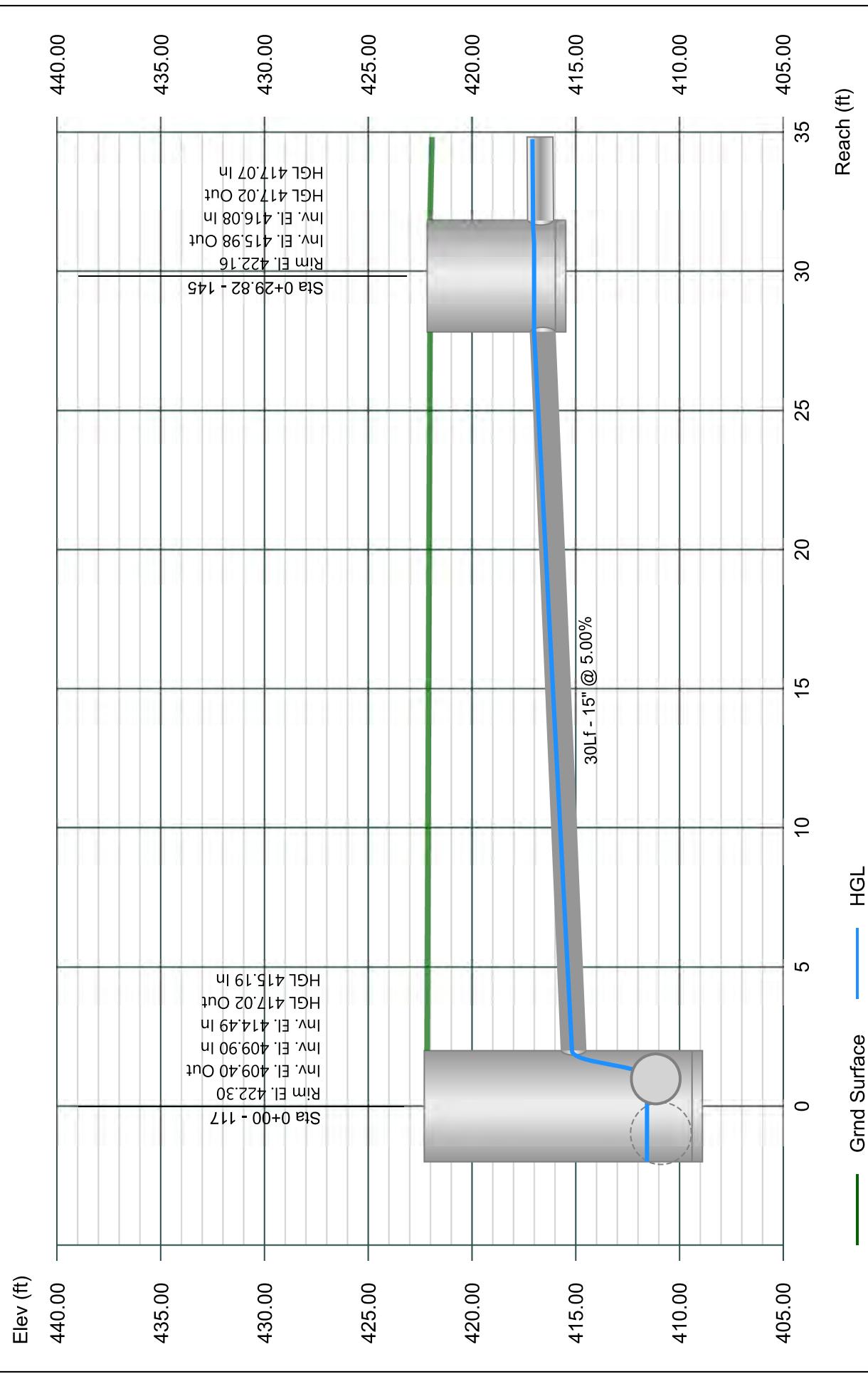


Line 45 - 145 to 117

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

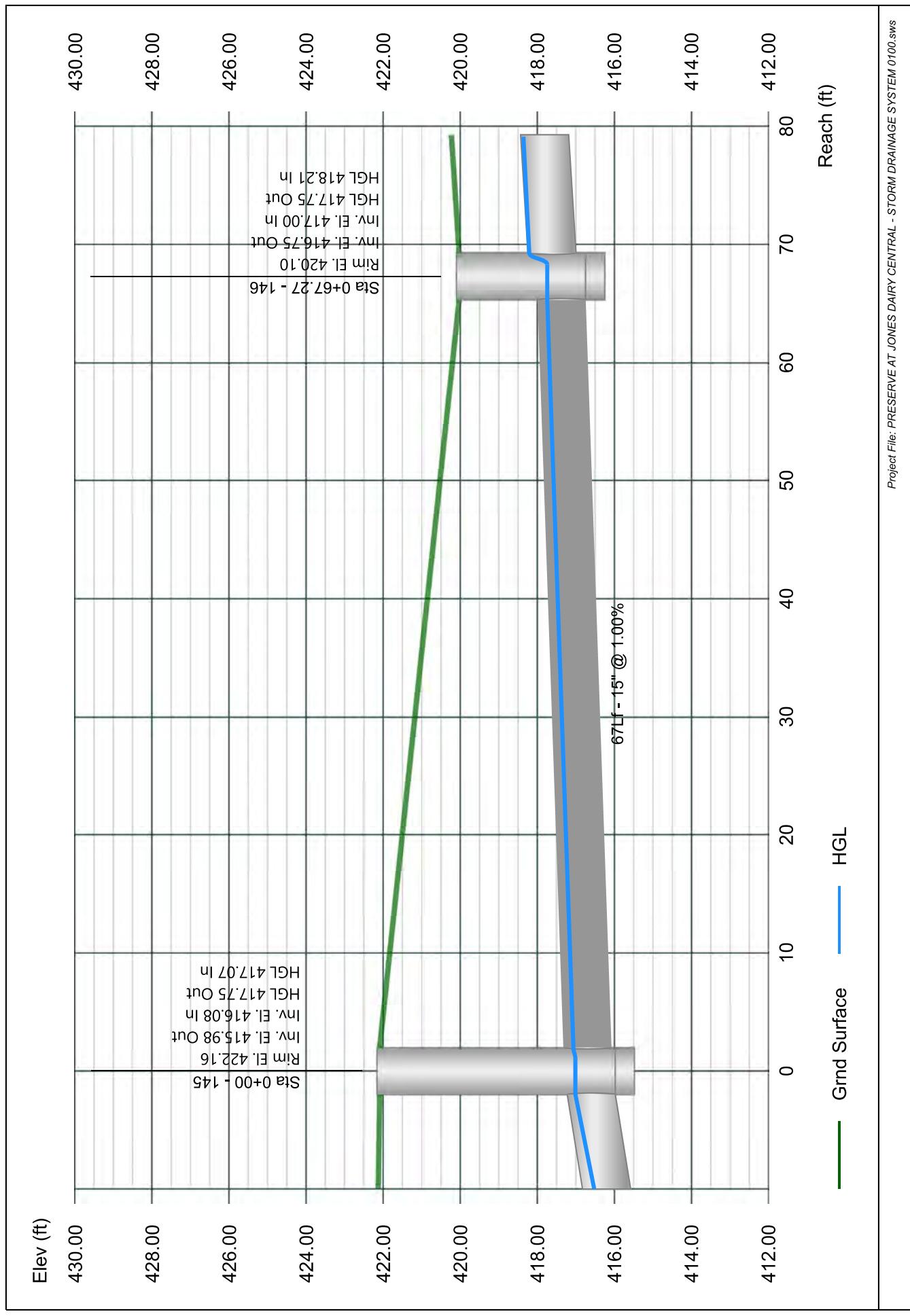


Line 46 - 146 to 145

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

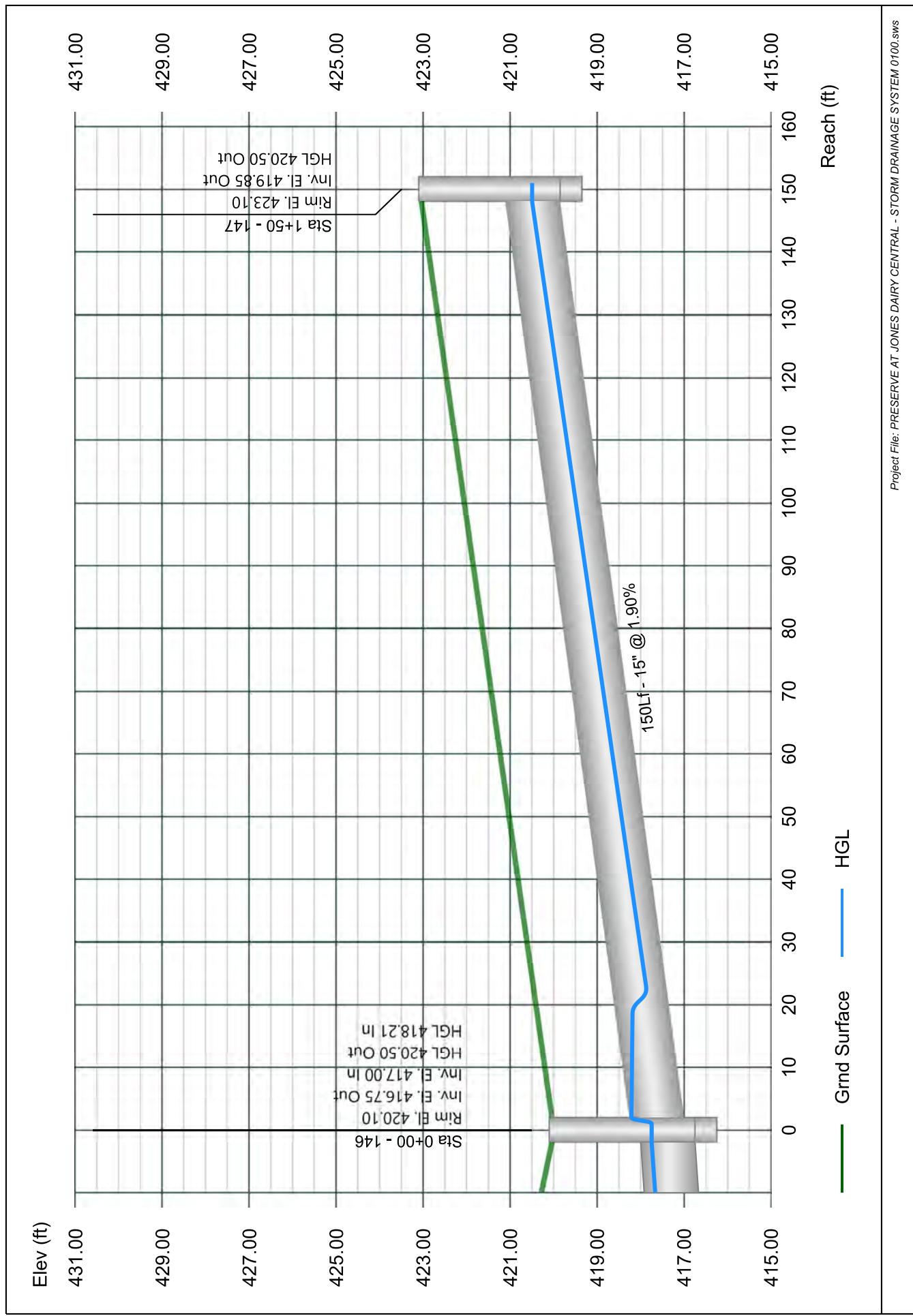


Line 47 - 147 to 146

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



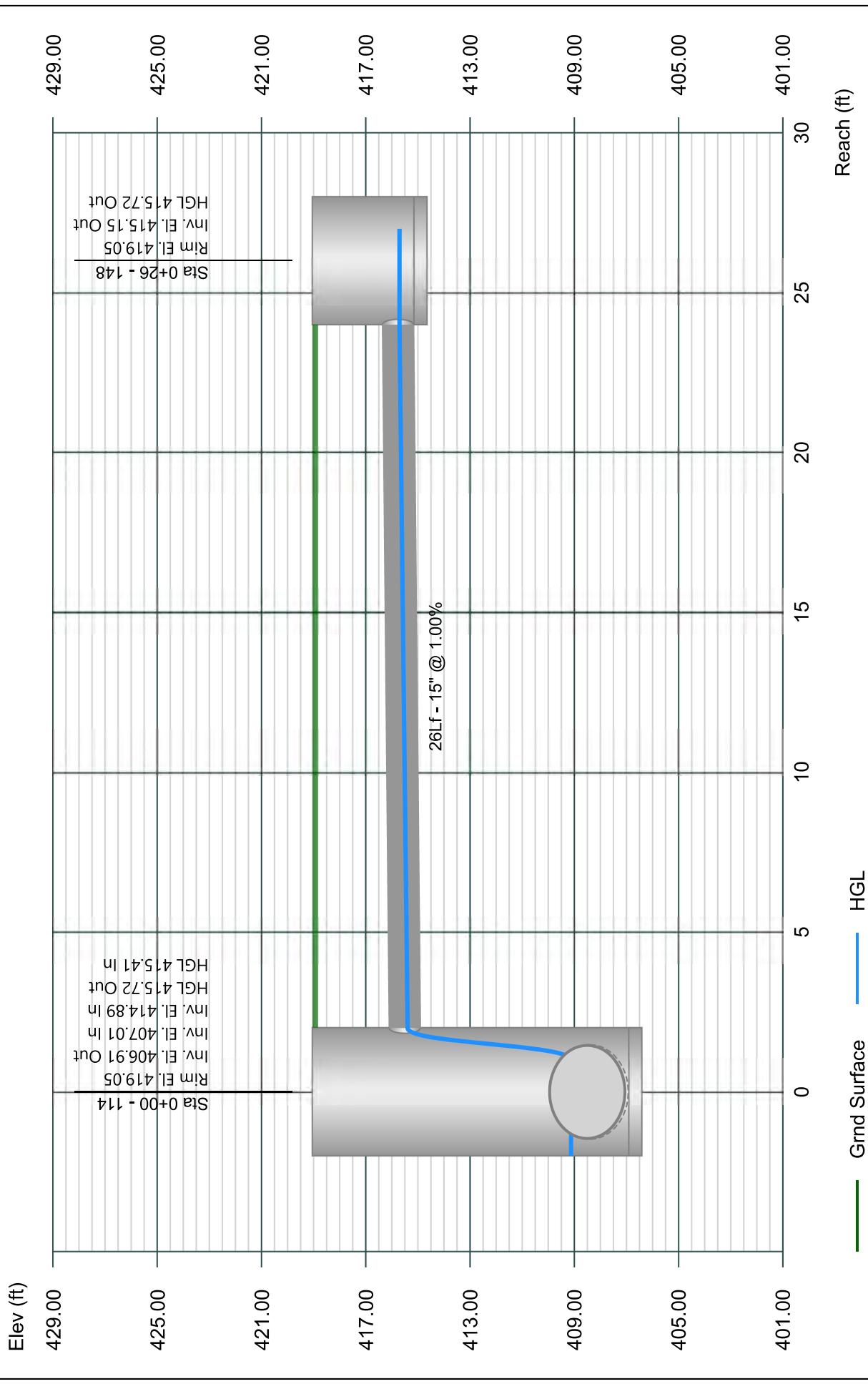
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 48 - 148 TO 114

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

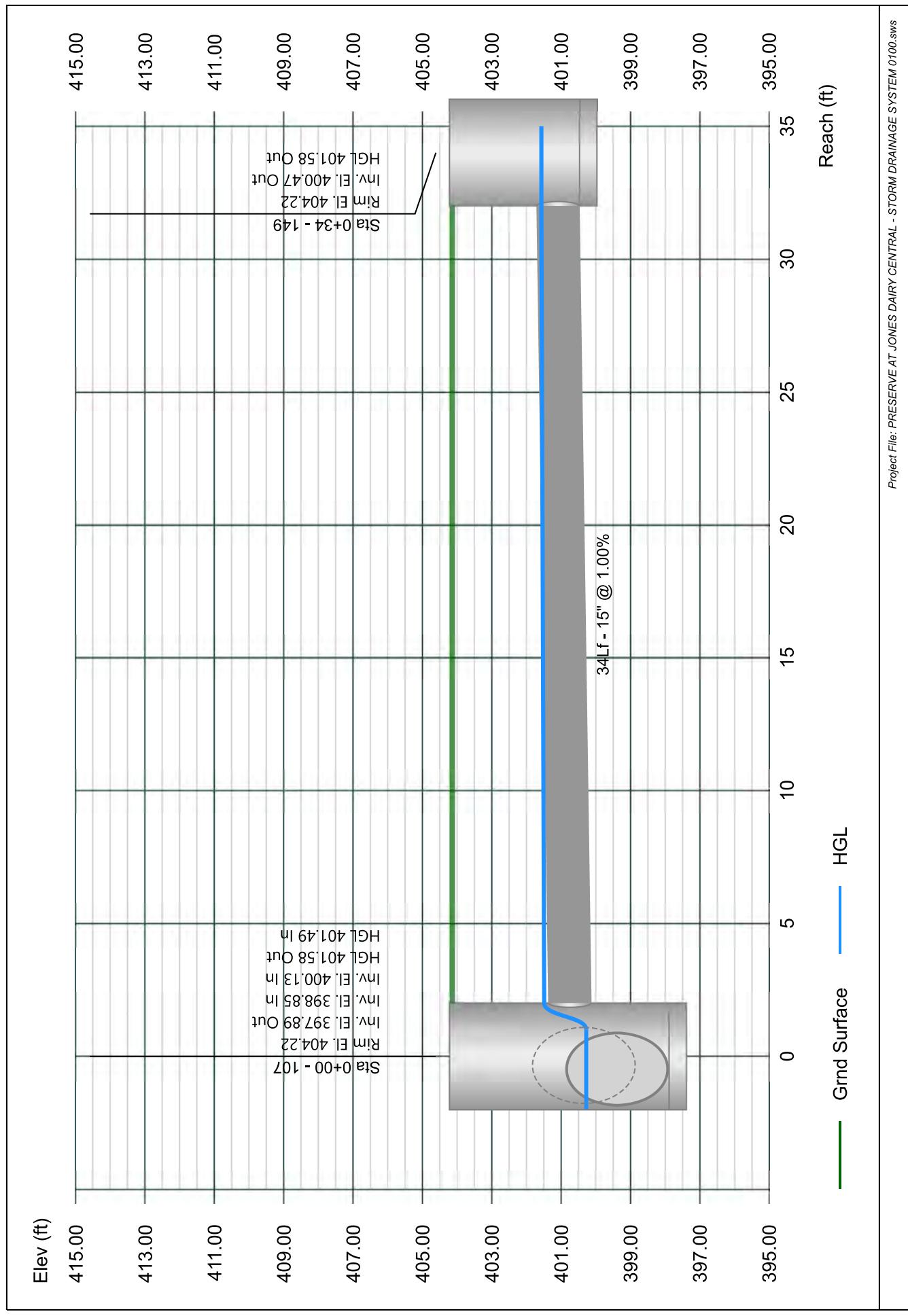


Line 49 - 149 TO 107

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

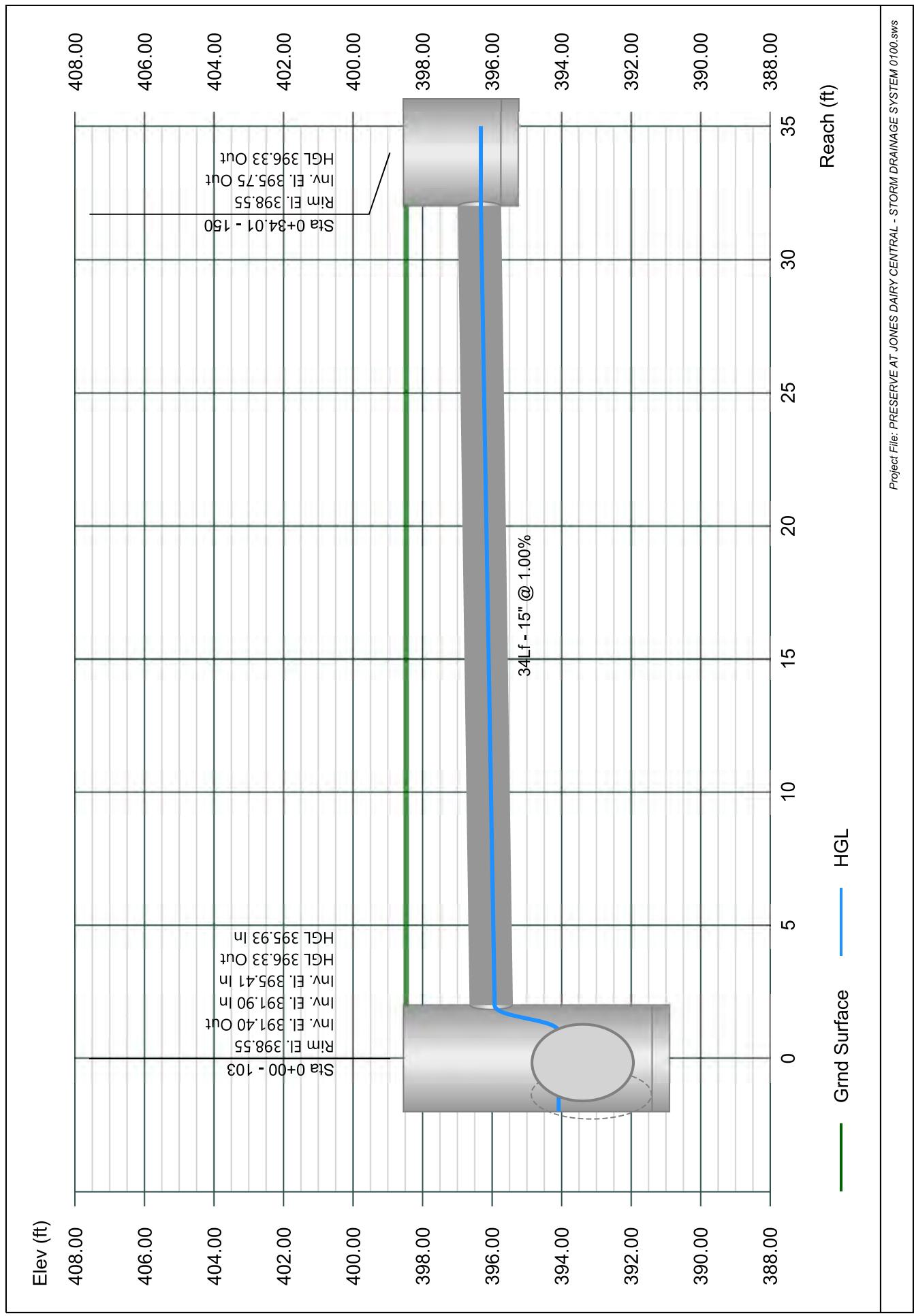


Line 50 - 150 TO 103

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

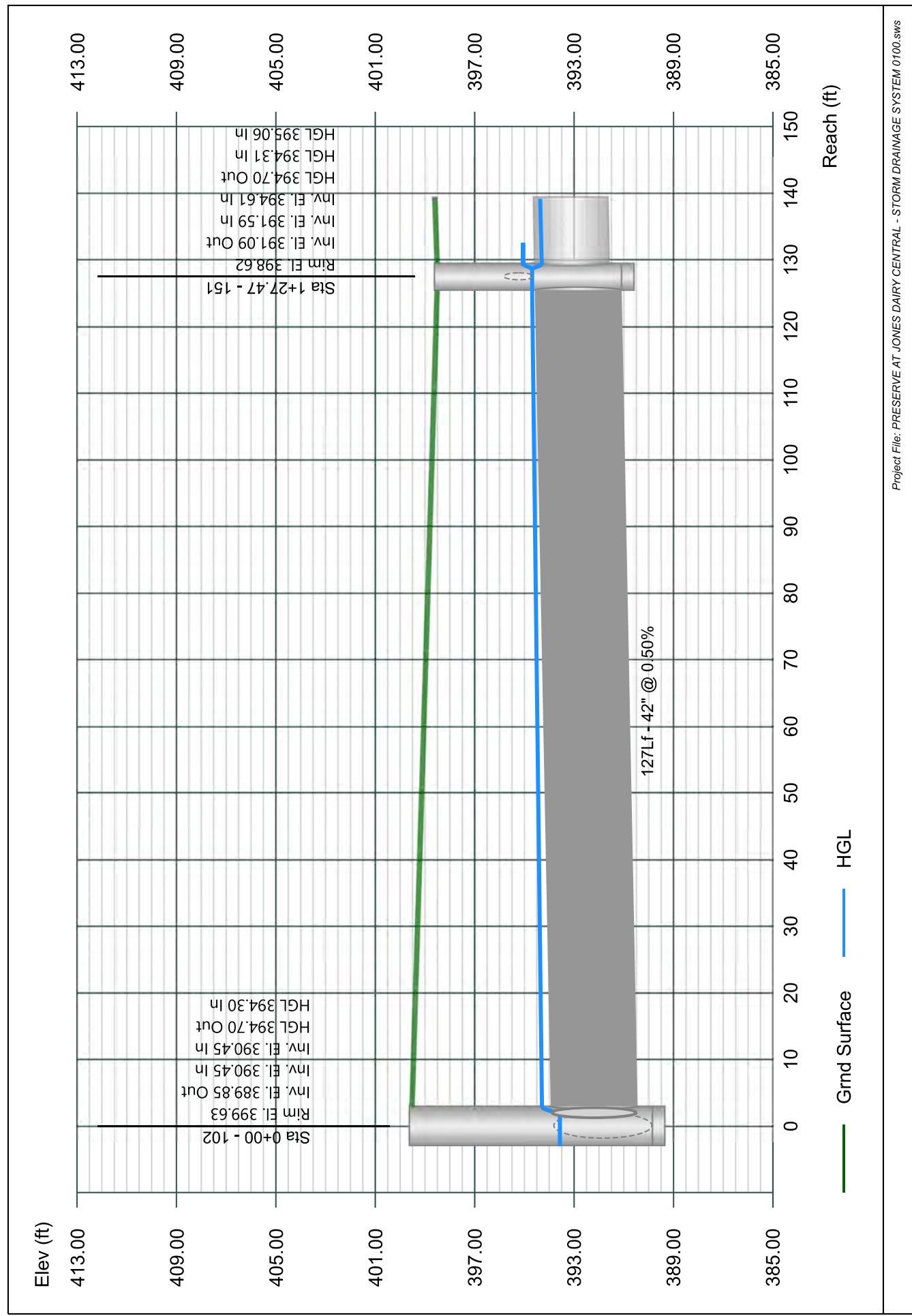


Line 51 - 151 TO 102

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

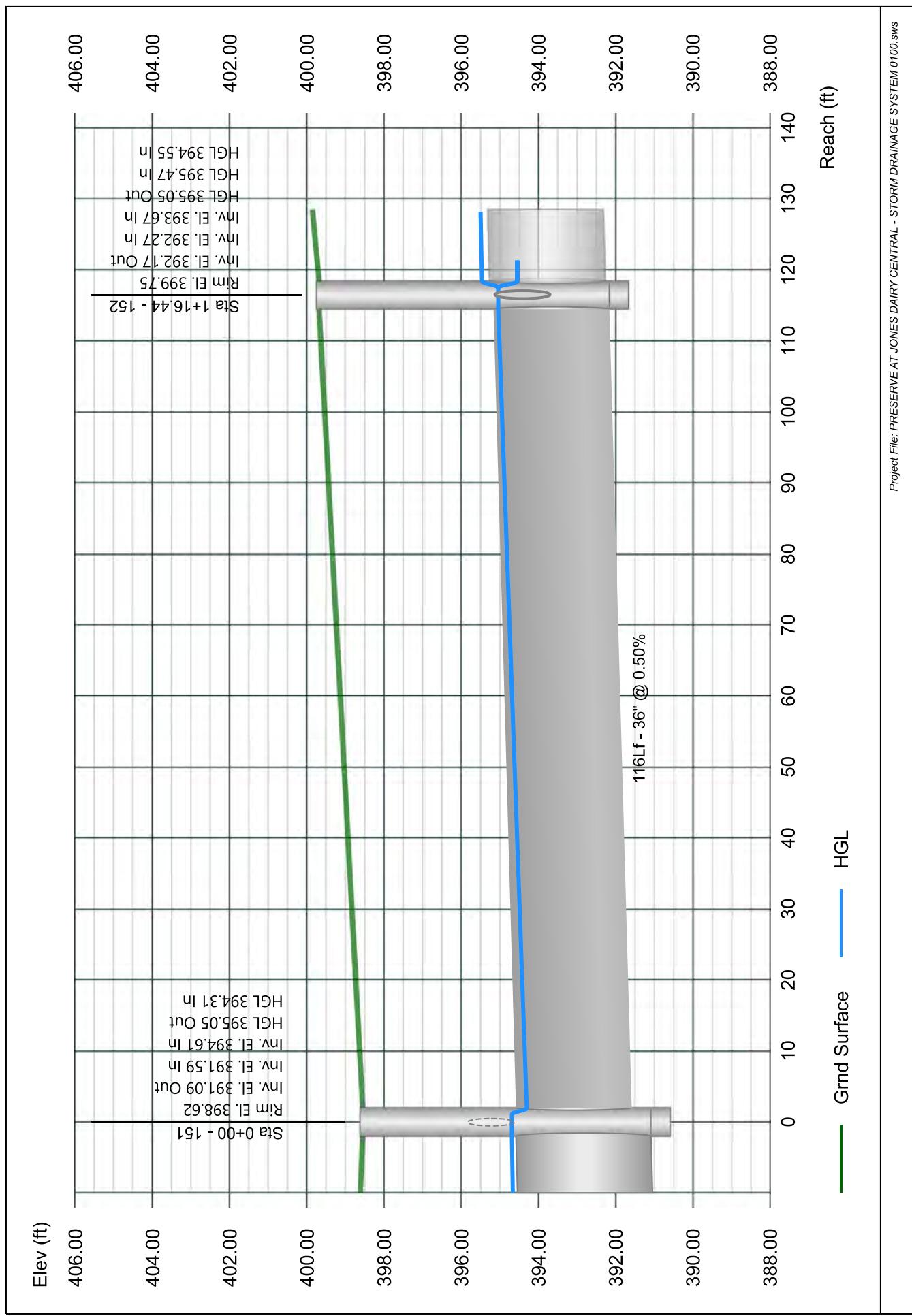


Line 52 - 152 TO 151

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

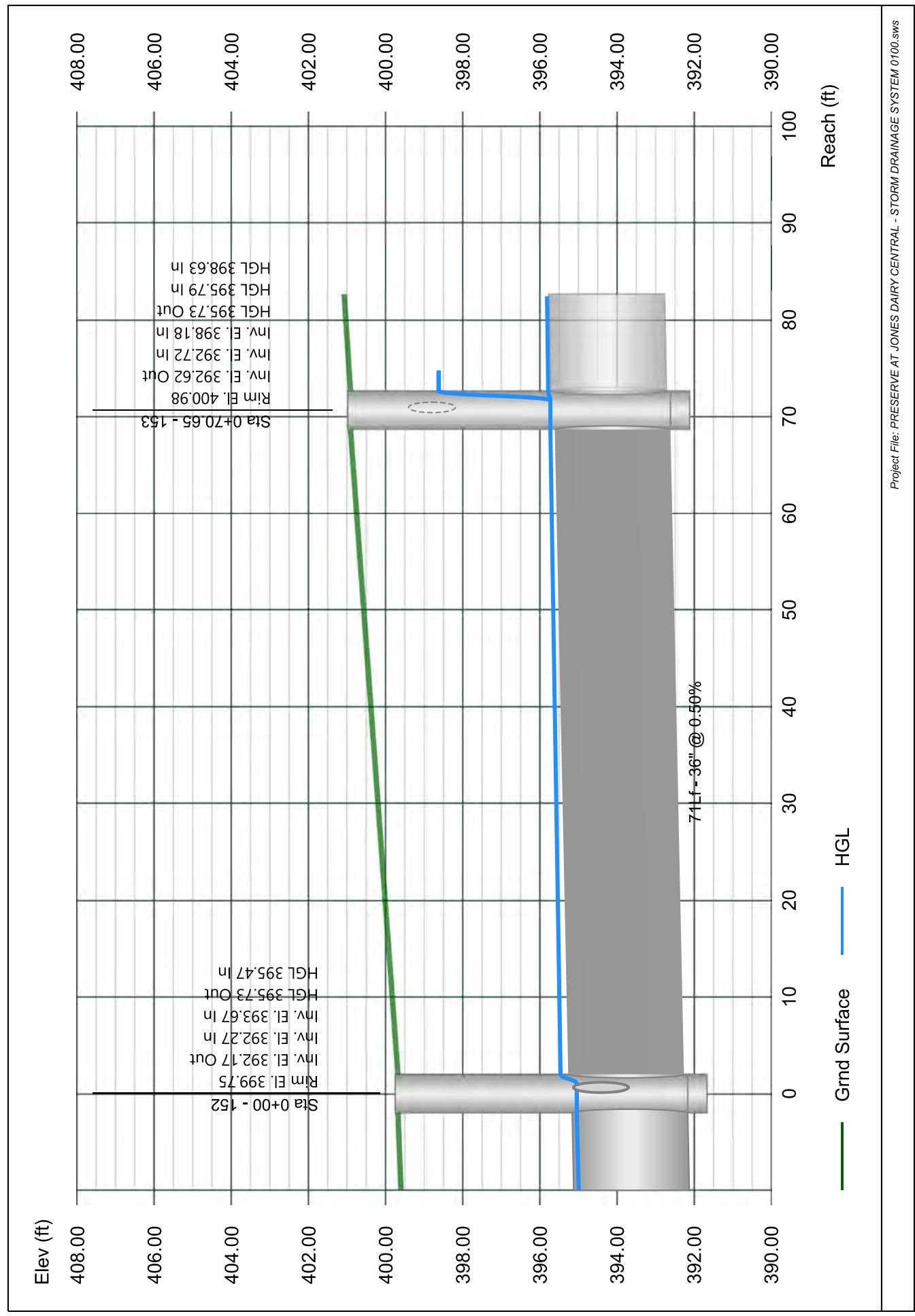


Line 53 - 153 TO 152

Line 53 - 153 -
Stormwater Studio 2024 v 3.00.33

Project Name: Enter Project Name...

01-19-2024

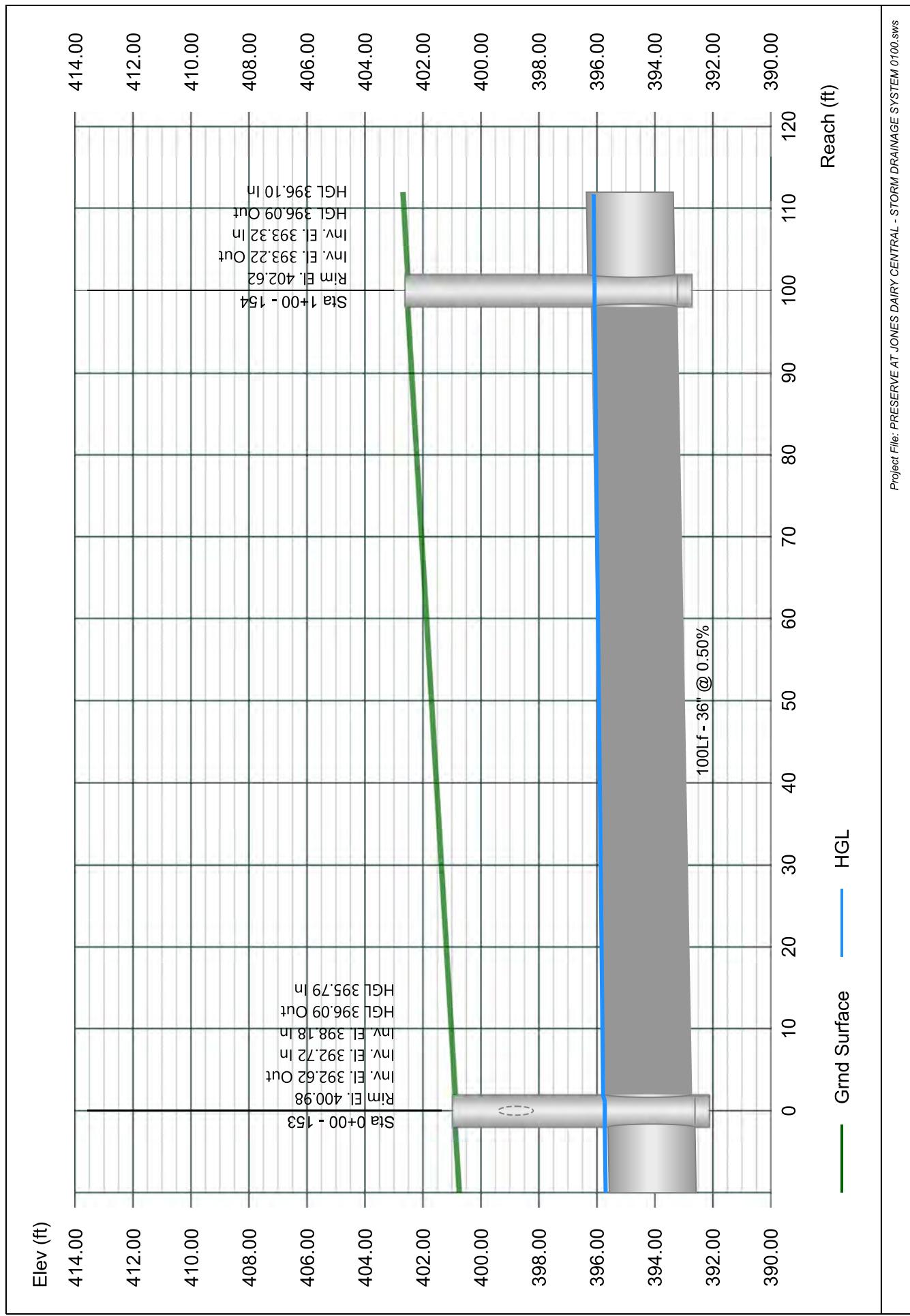


Line 54 - 154 TO 153

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

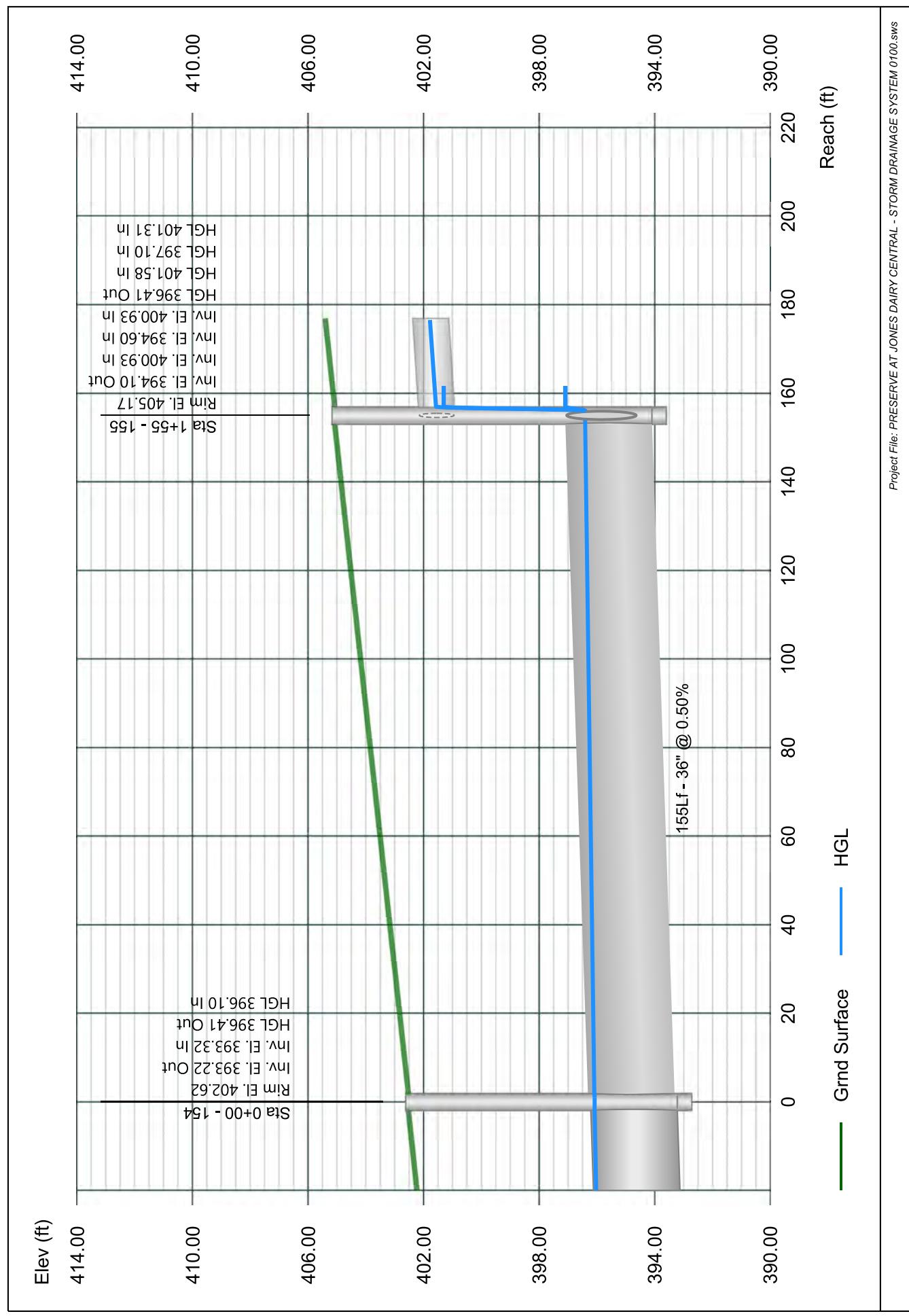


Line 55 - 155 TO 154

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

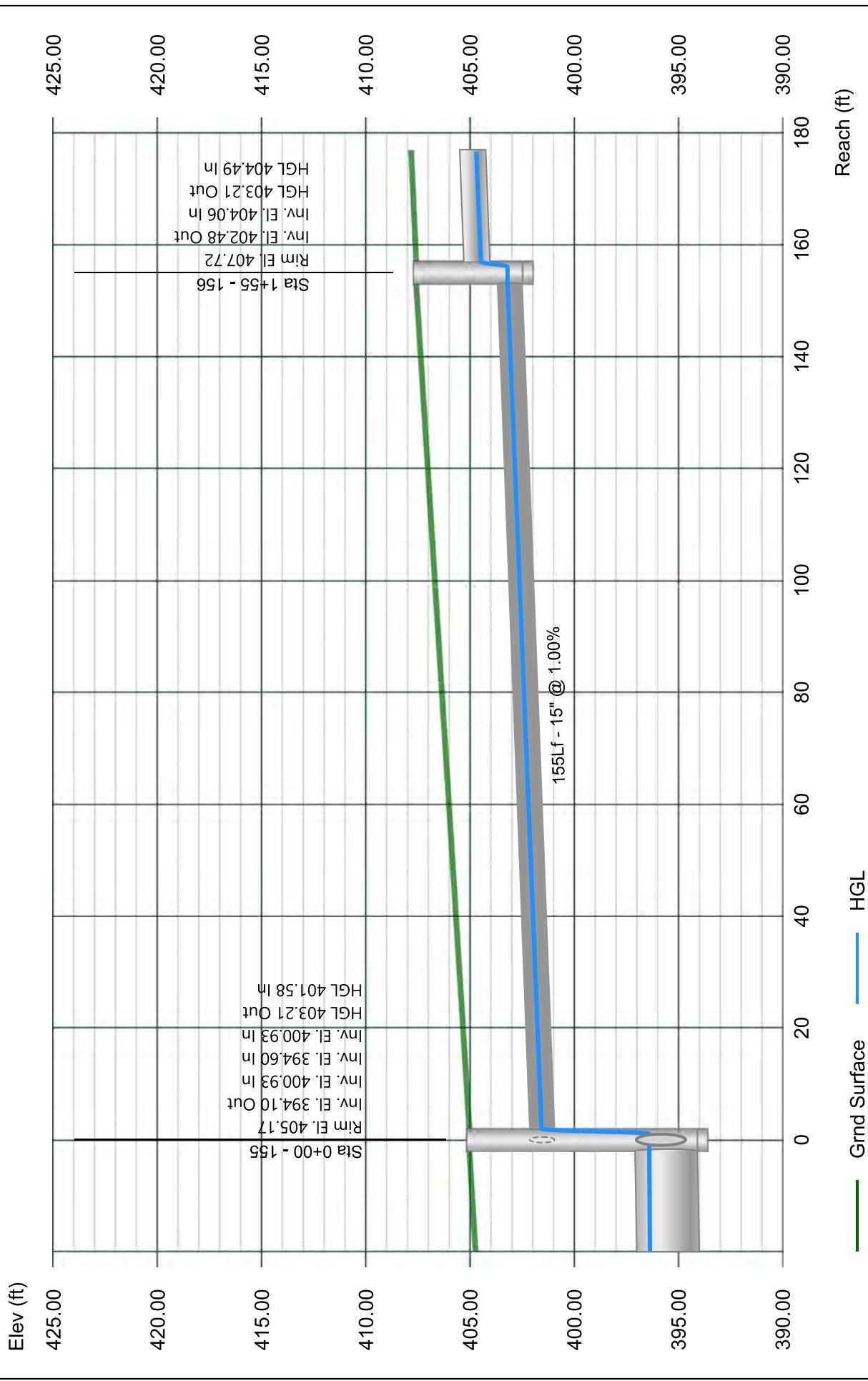


Line 56 - 156 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

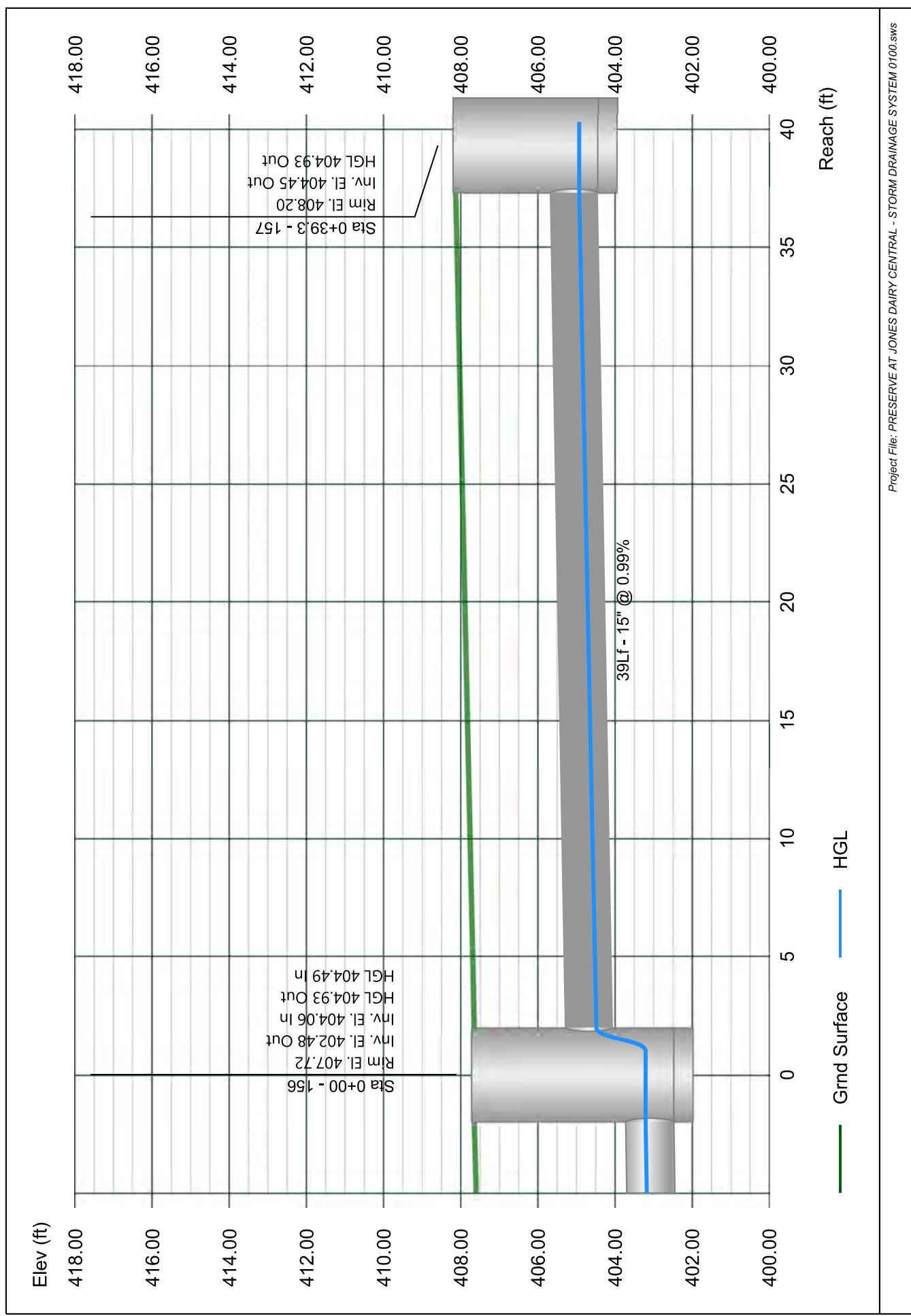


Line 57 - 157 TO 156

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

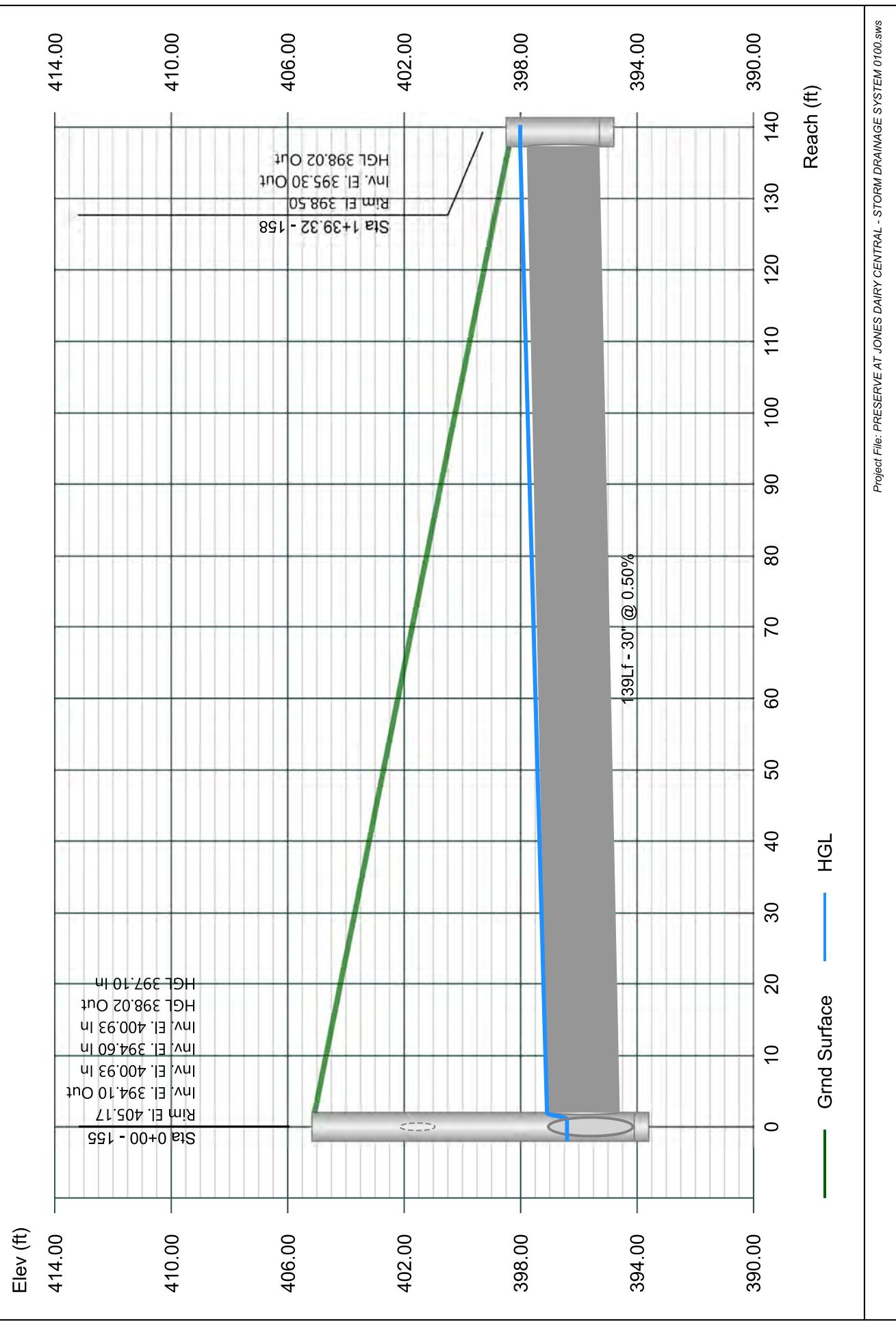


Line 58 - 158 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

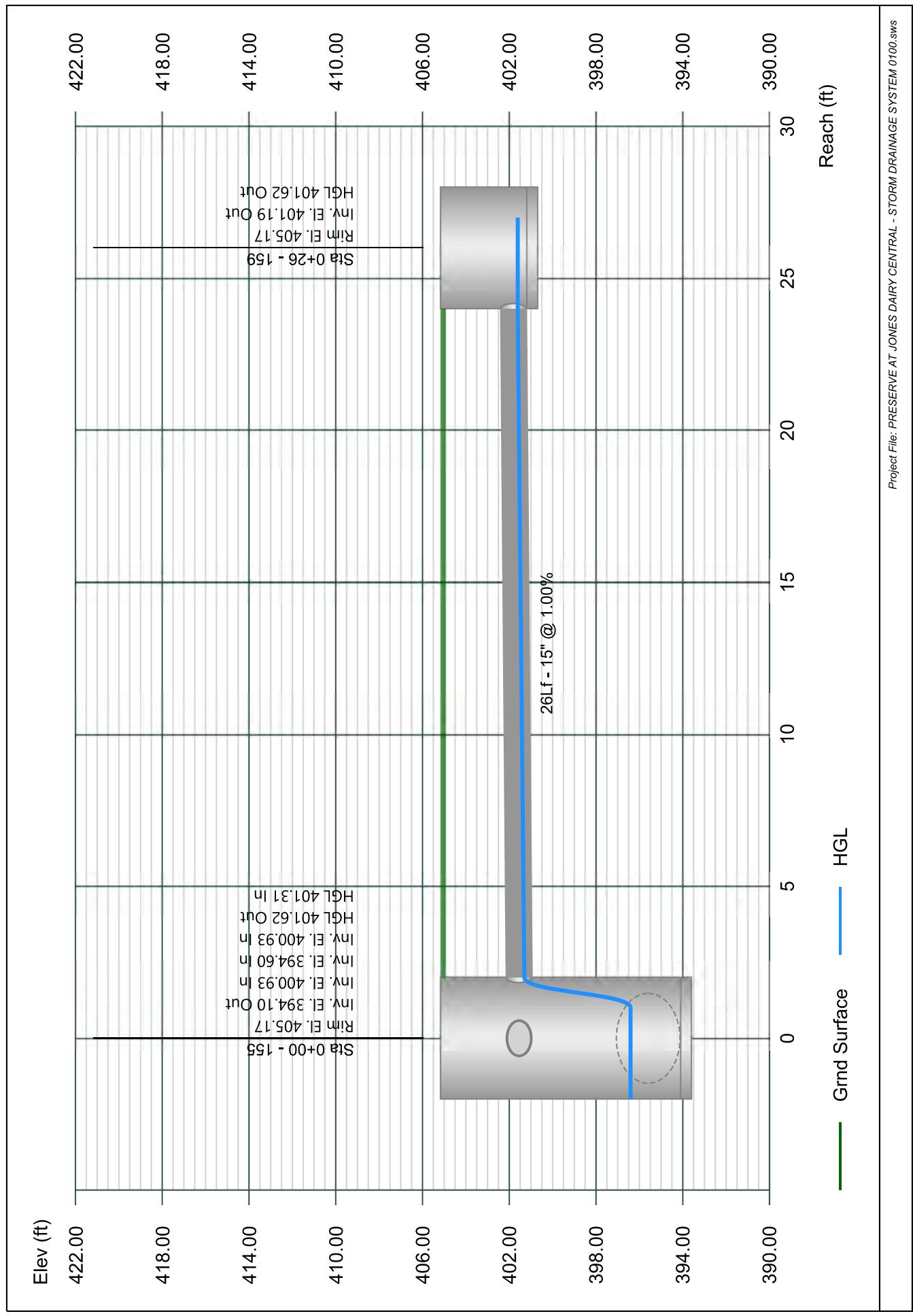


Line 59 - 159 TO 155

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

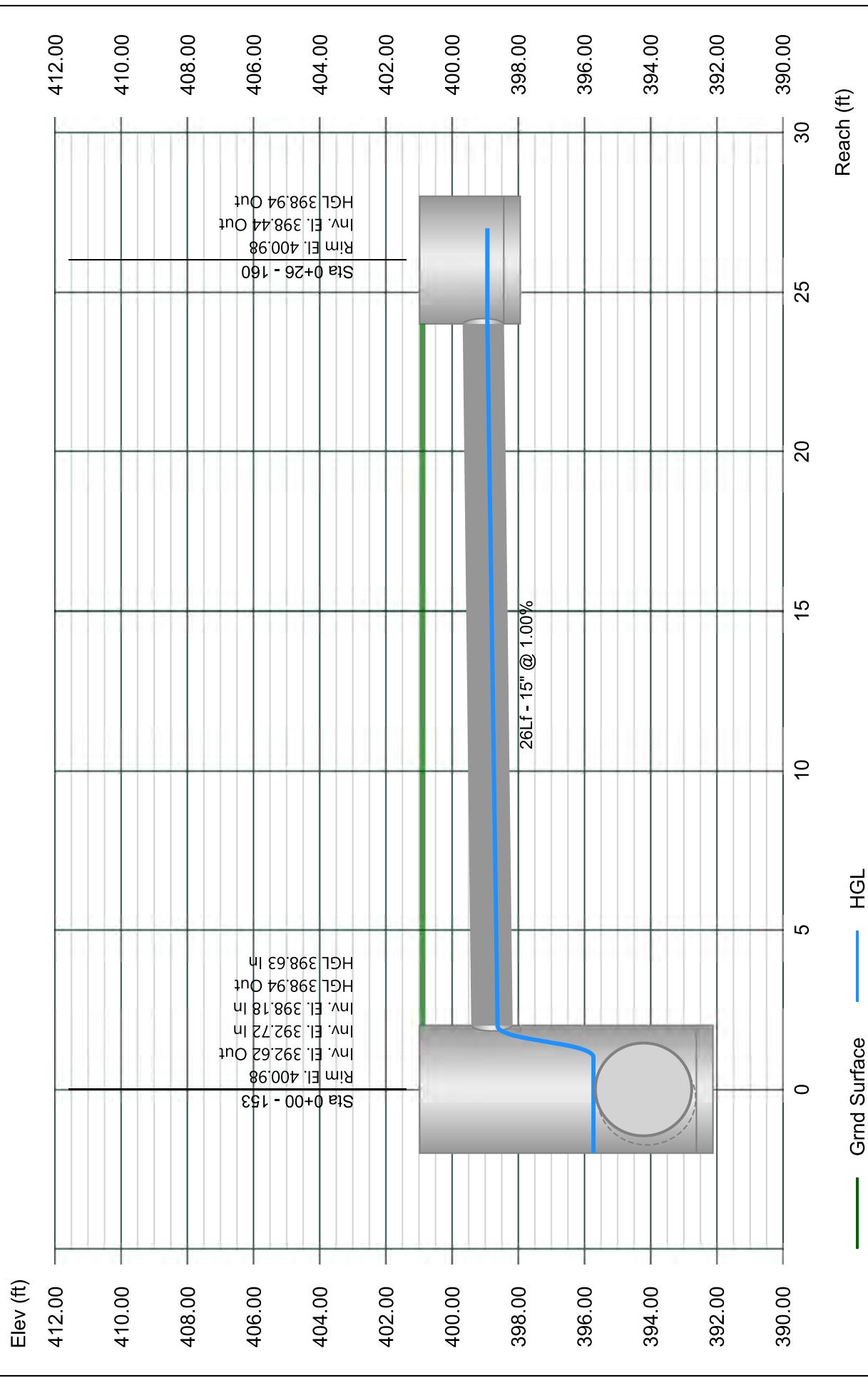


Line 60 - 160 TO 153

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

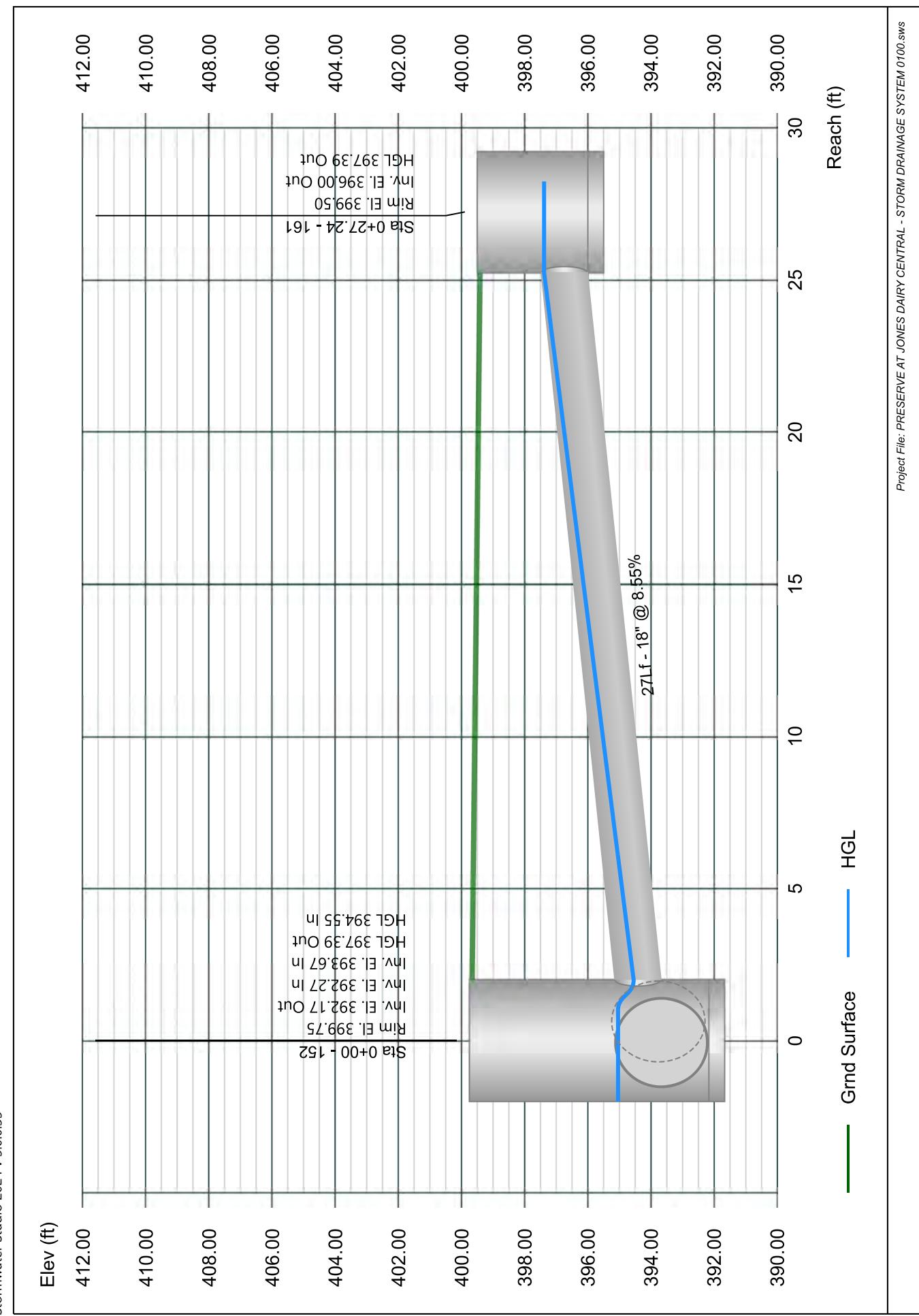


Line 61 - 161 TO 152

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

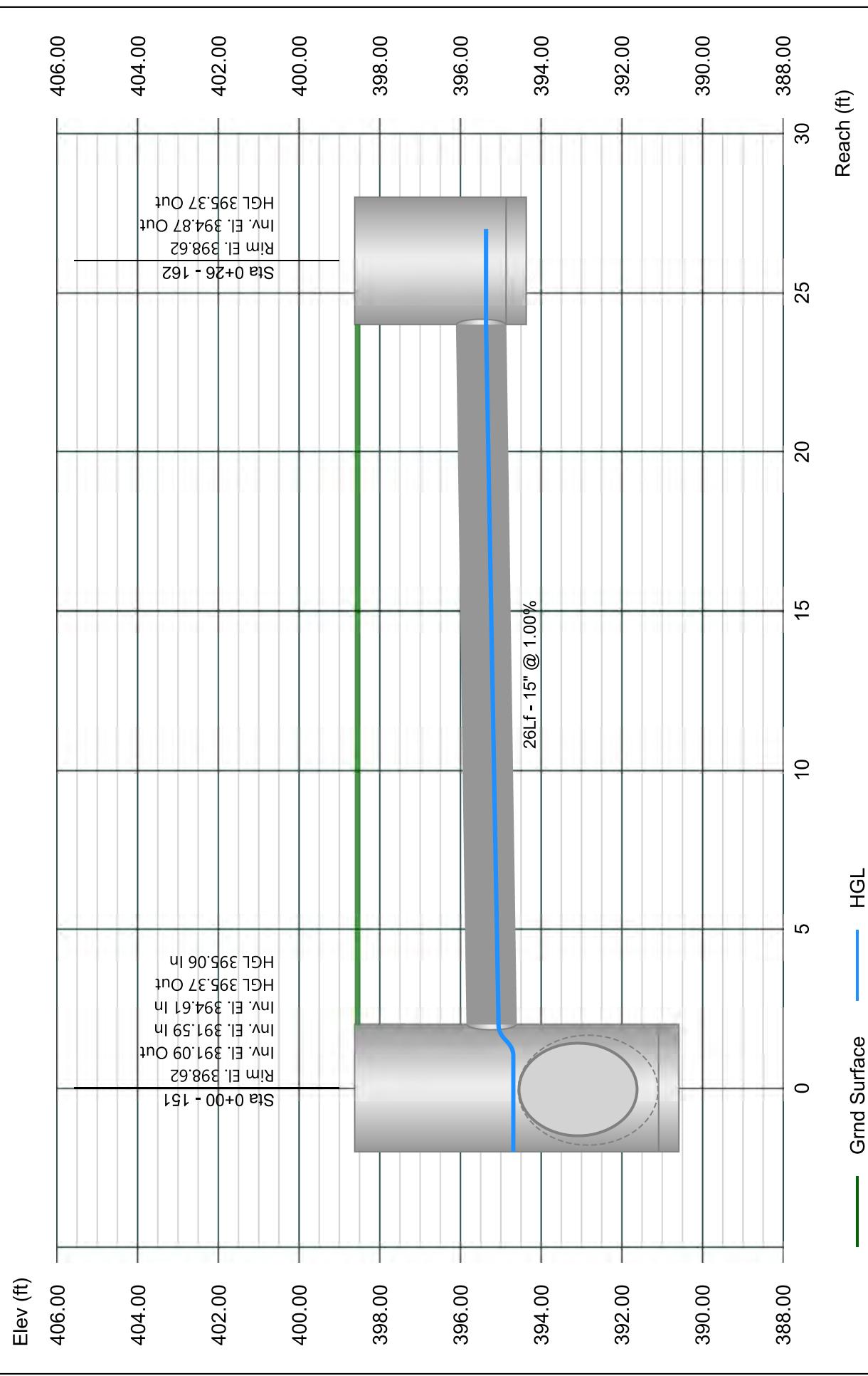


Line 62 - 163 TO 151

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



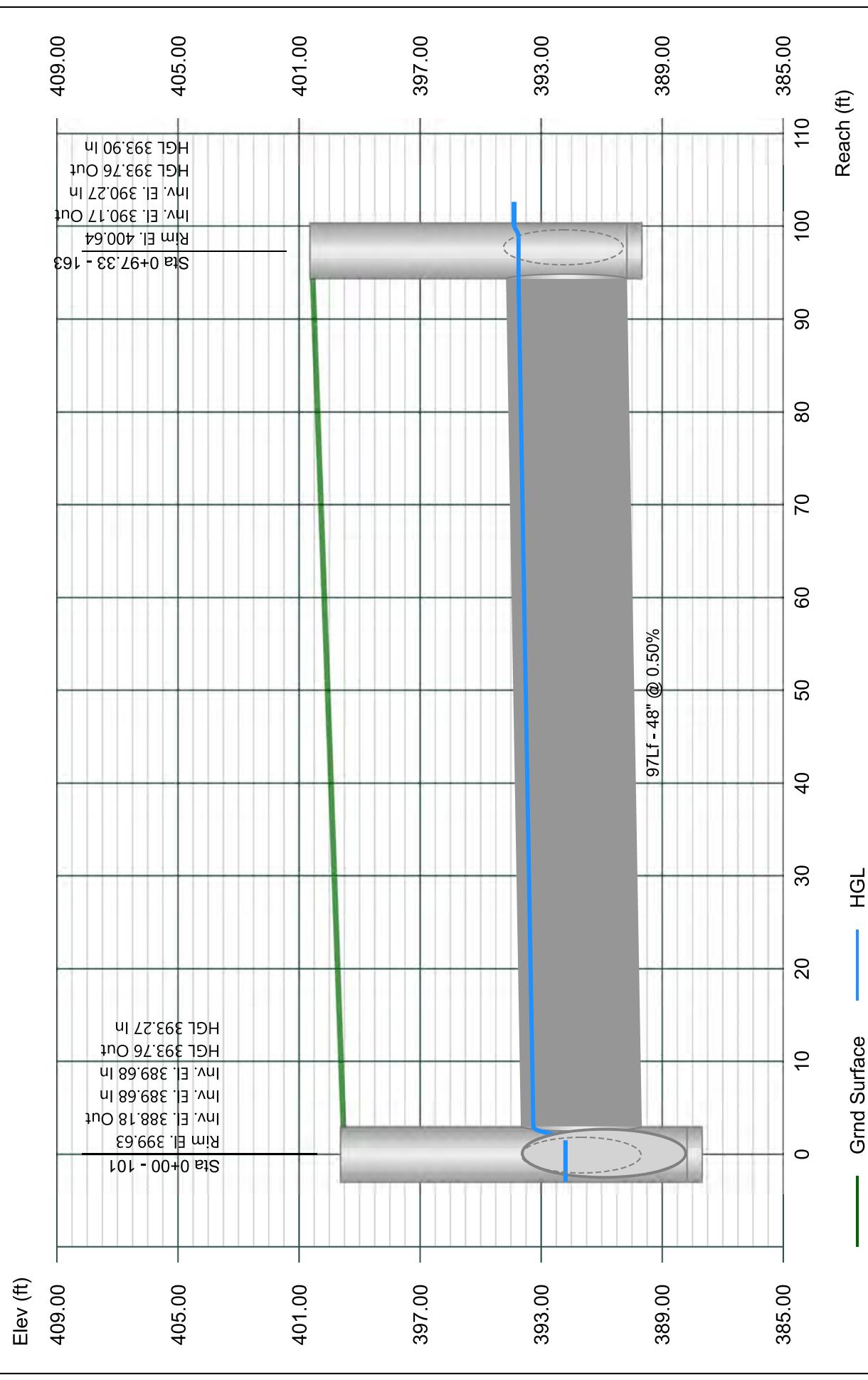
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 63 - 163 TO 101

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

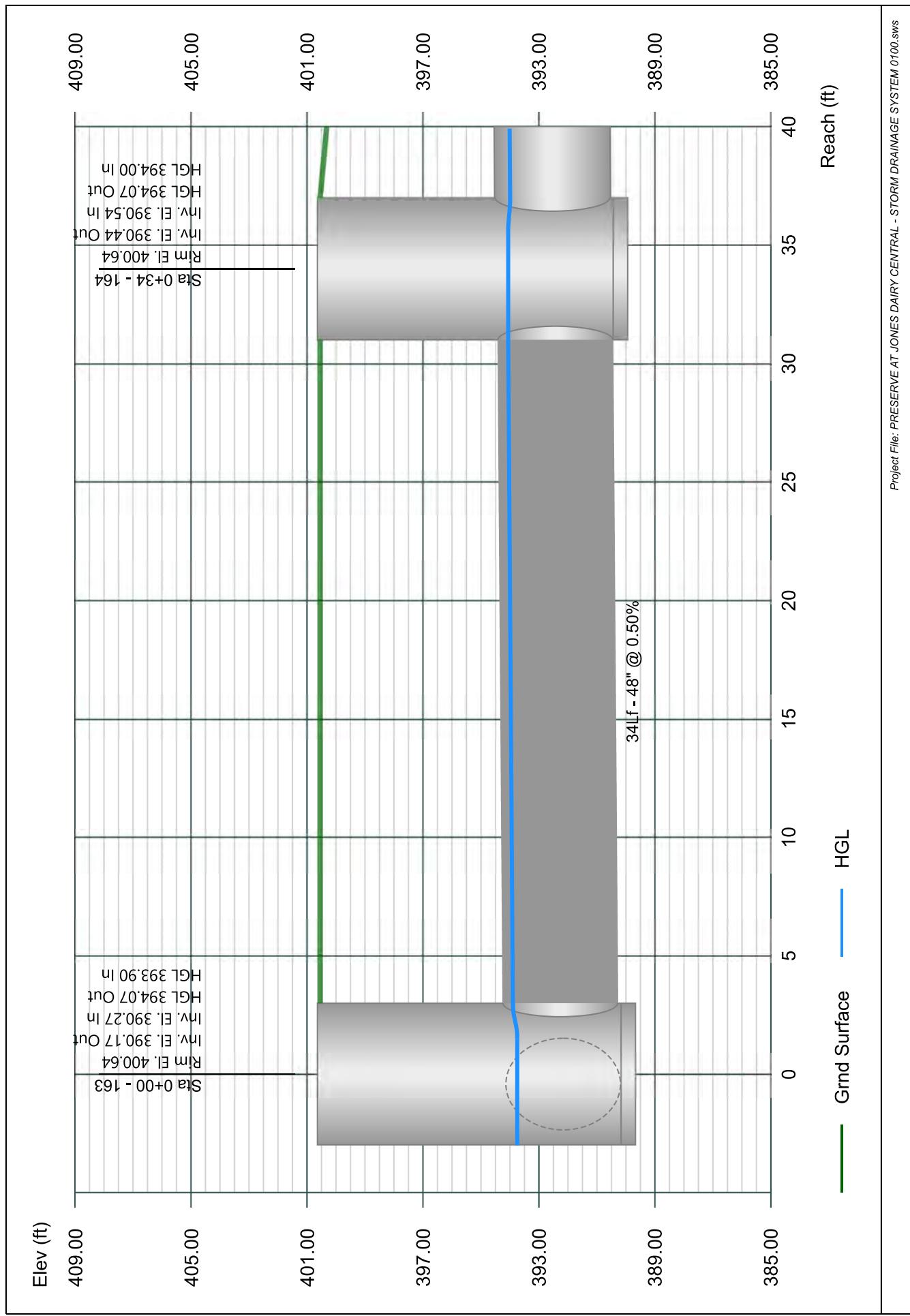


Line 64 - 164 TO 163

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

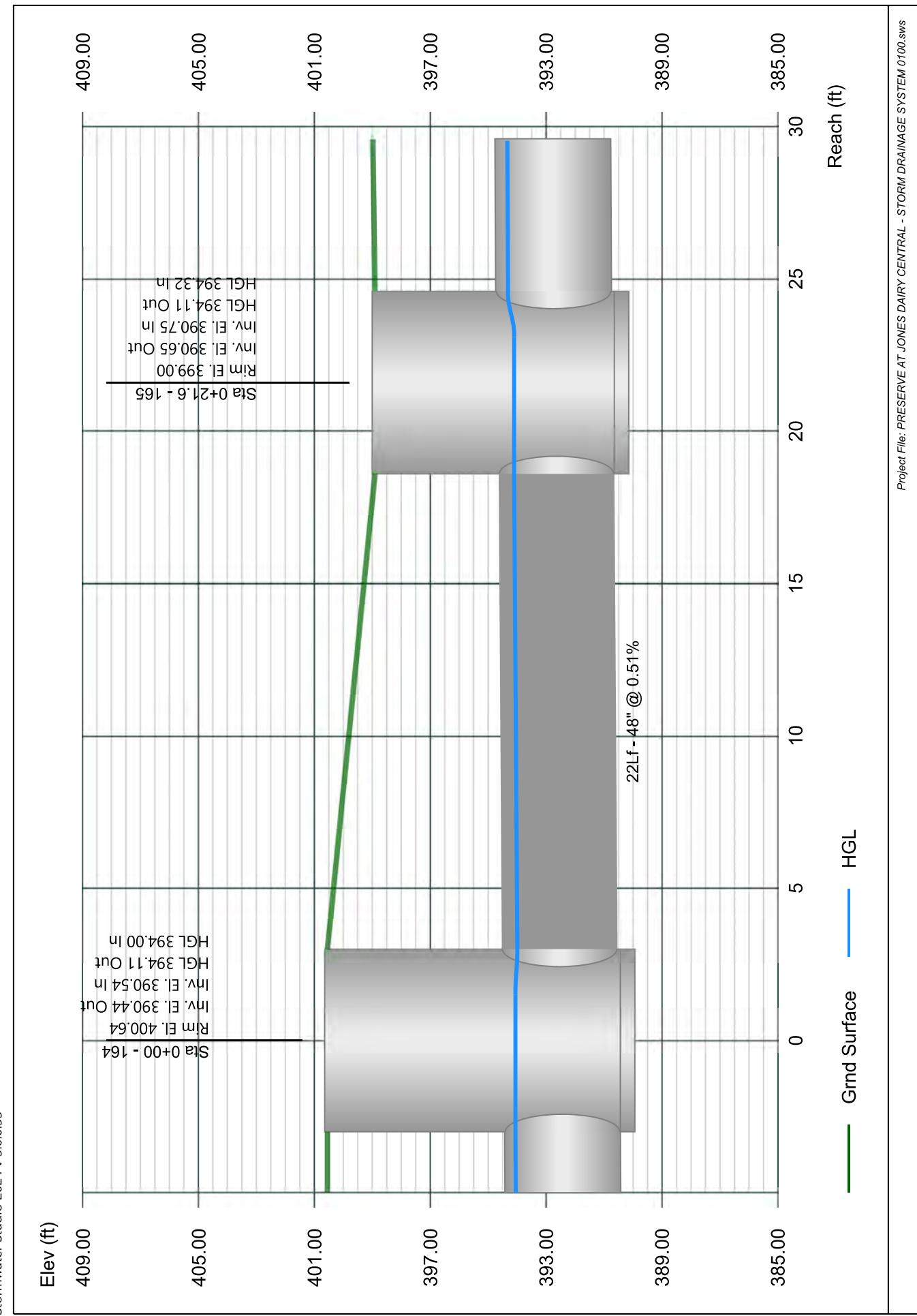


Line 65 - 165 TO 164

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

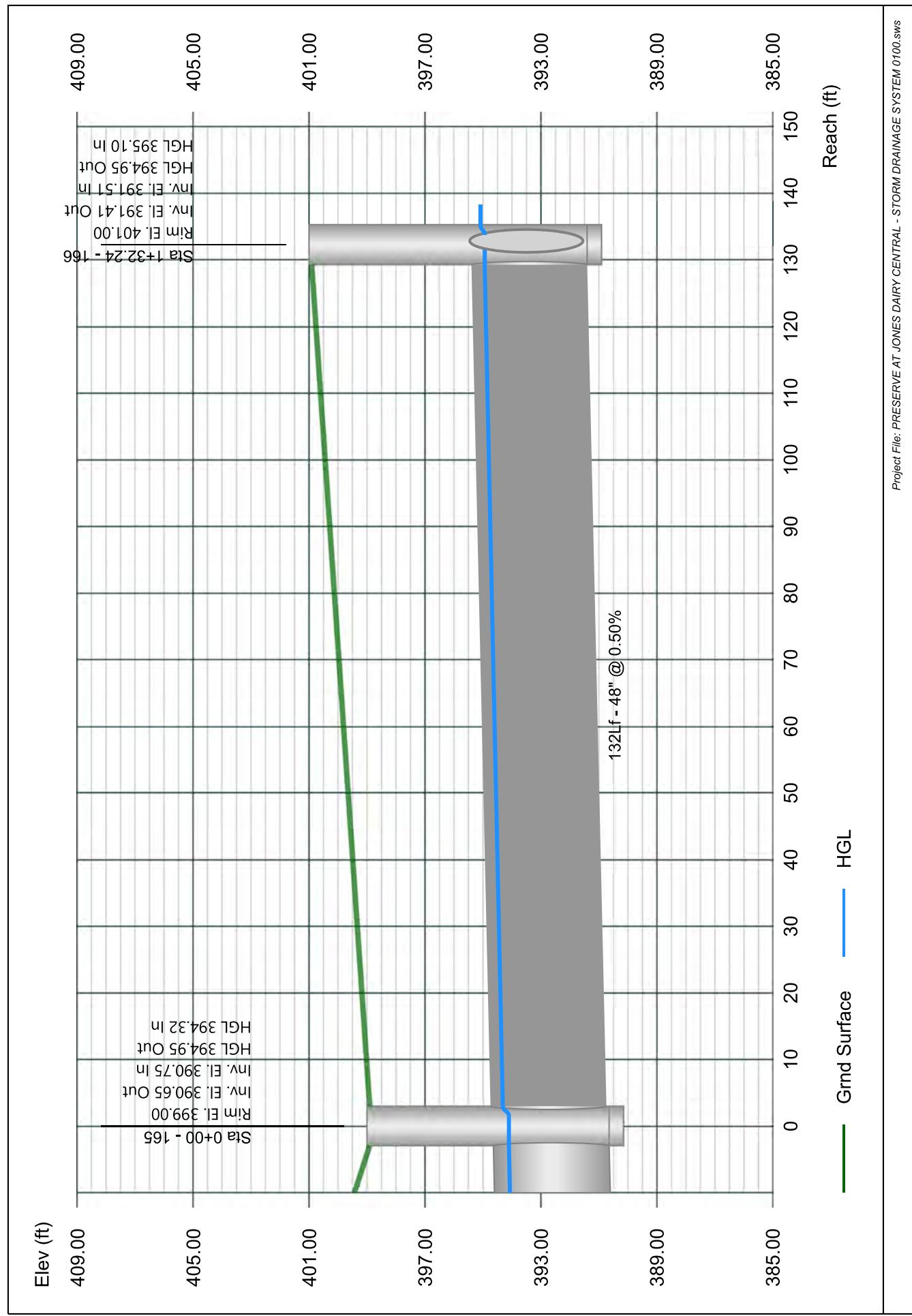


Line 66 - 166 TO 165

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

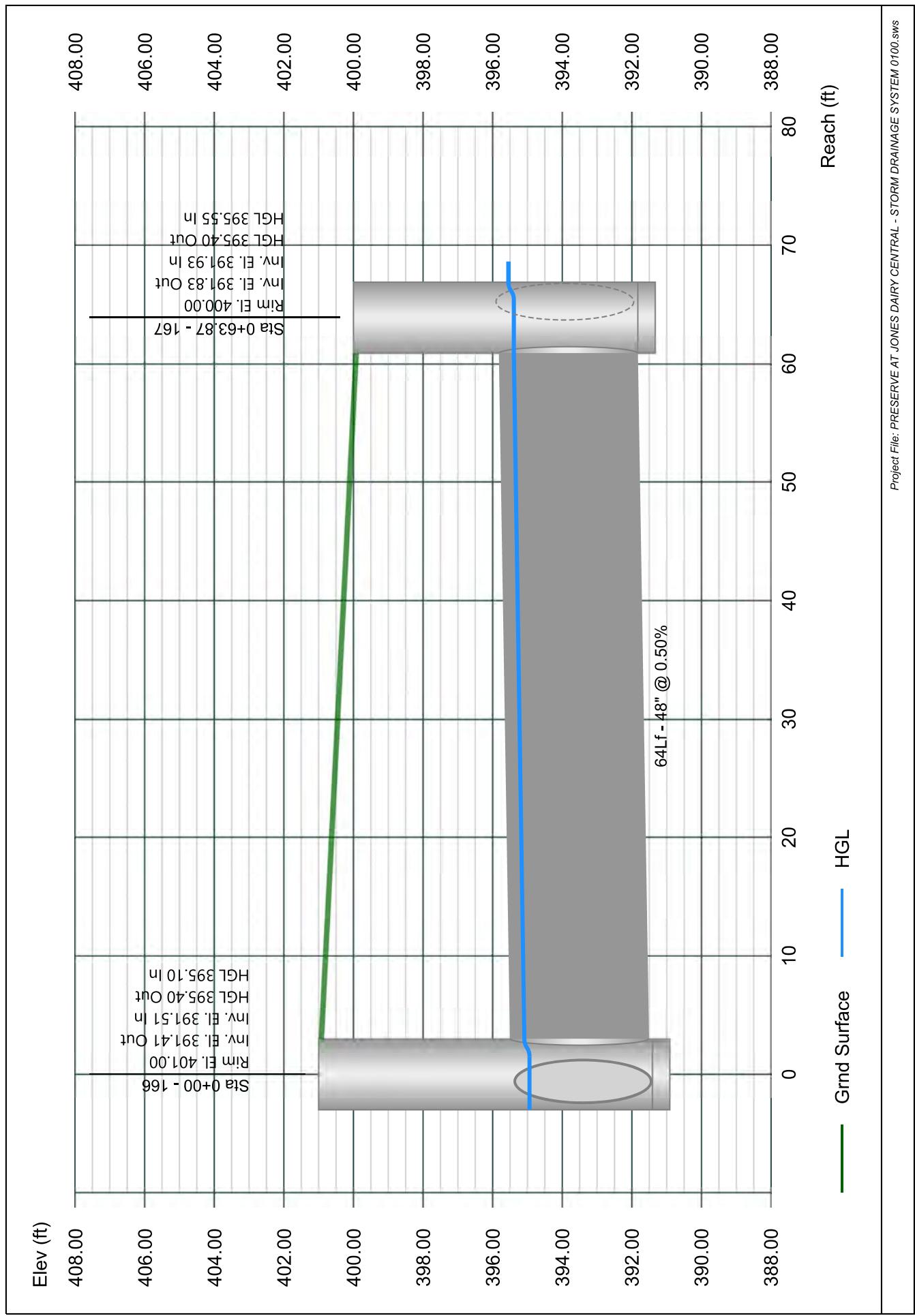


Line 67 - 167 TO 166

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

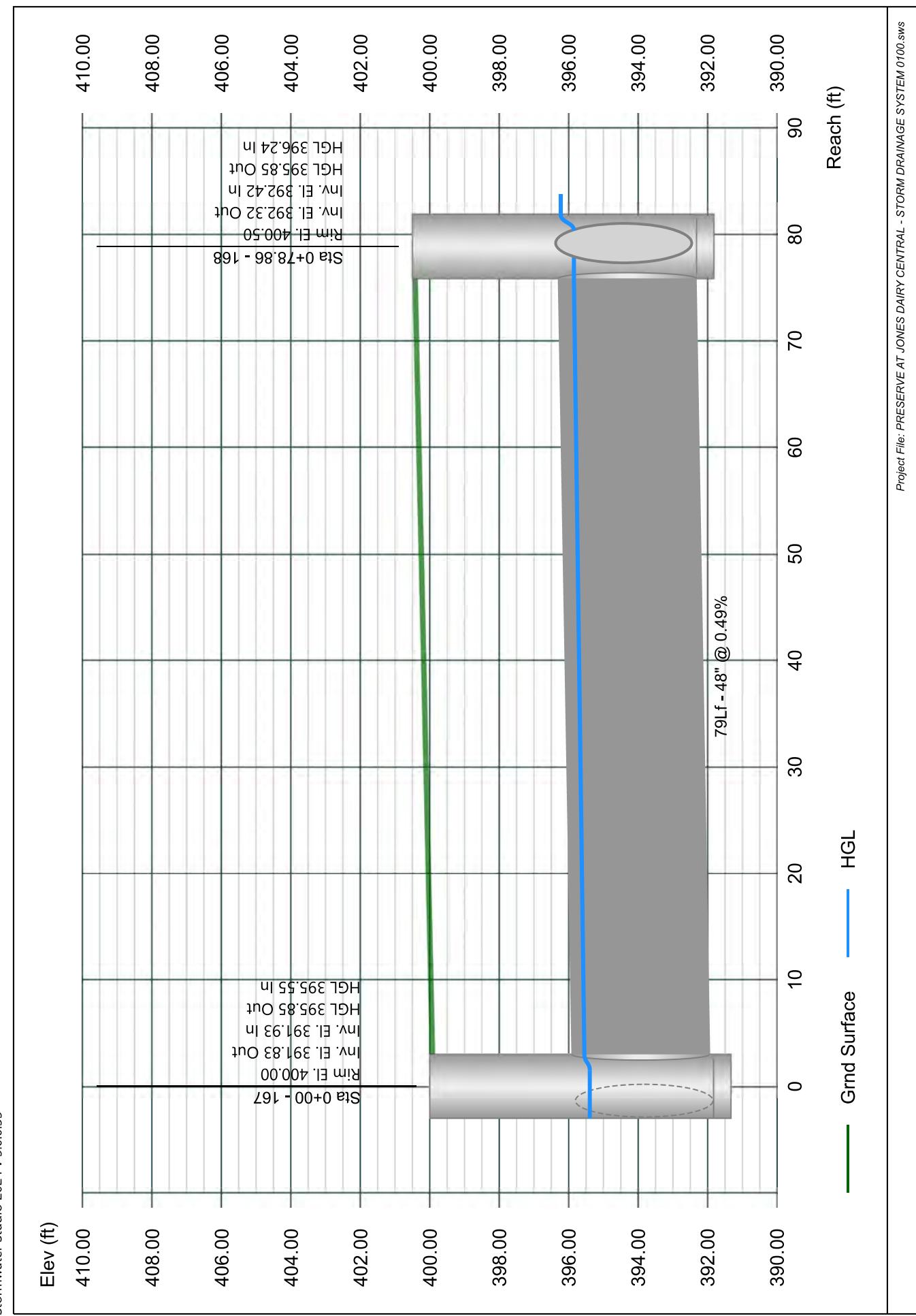


Line 68 - 168 TO 167

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

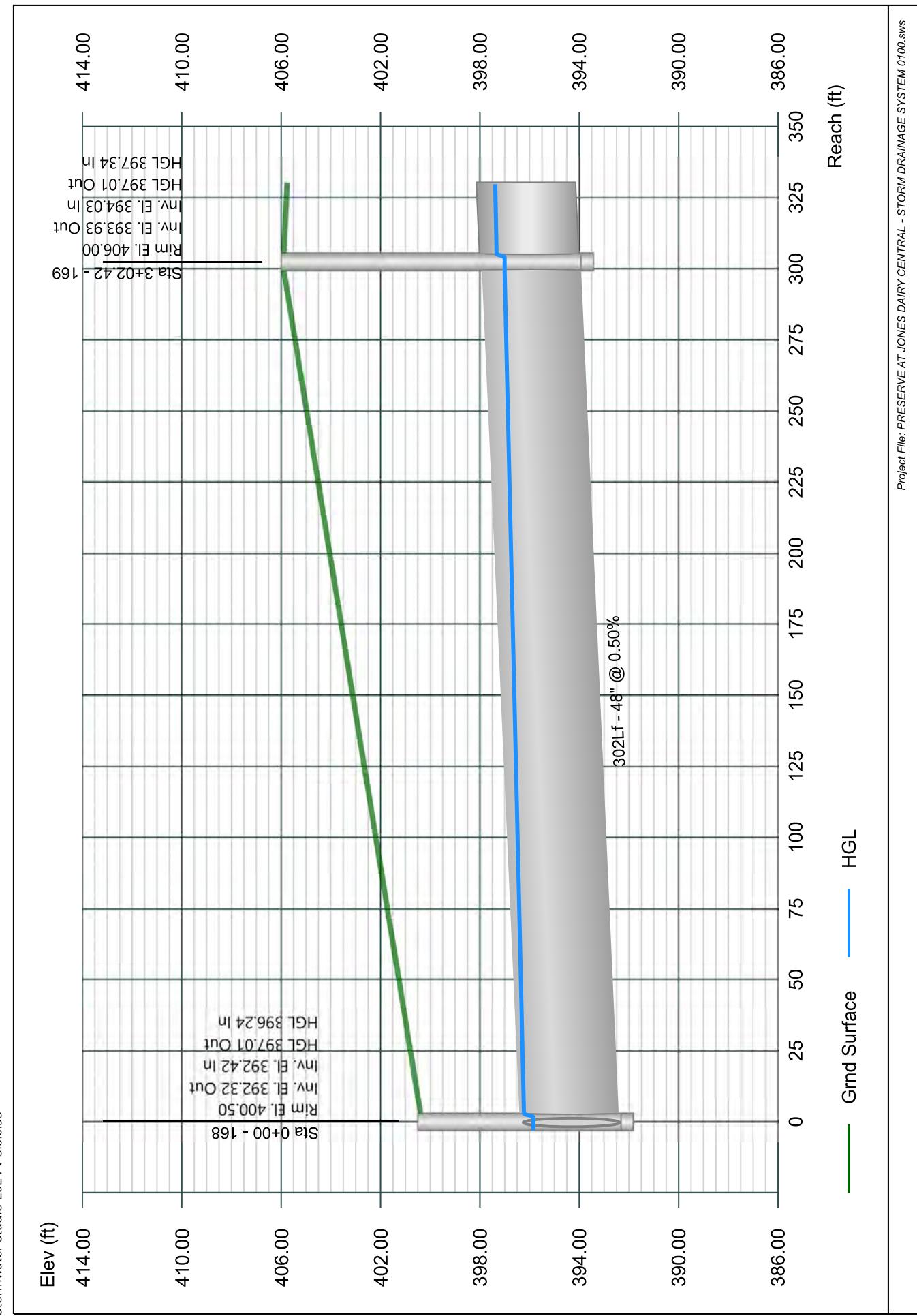


Line 69 - 169 TO 168

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

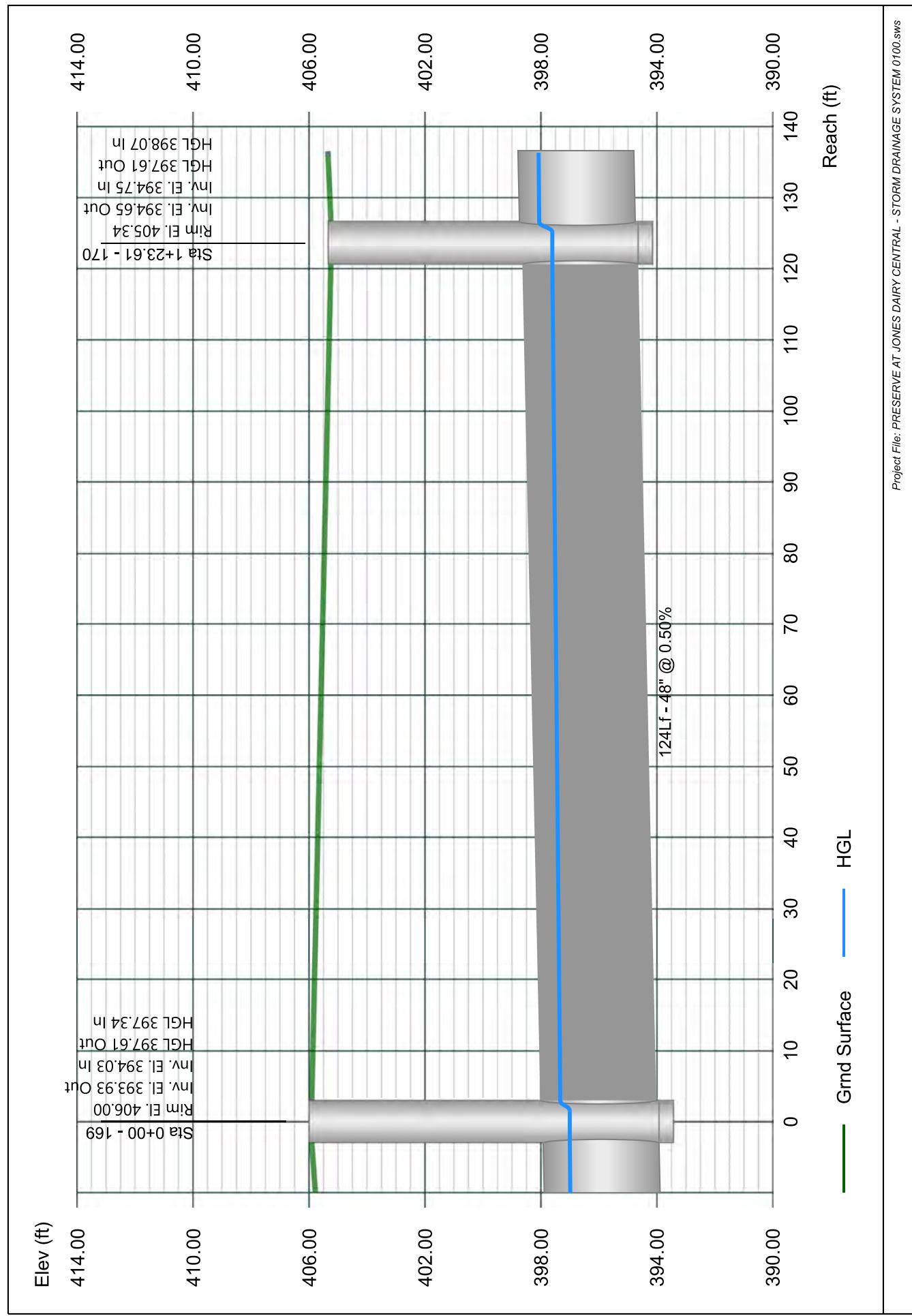


Line 70 - 170 TO 169

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

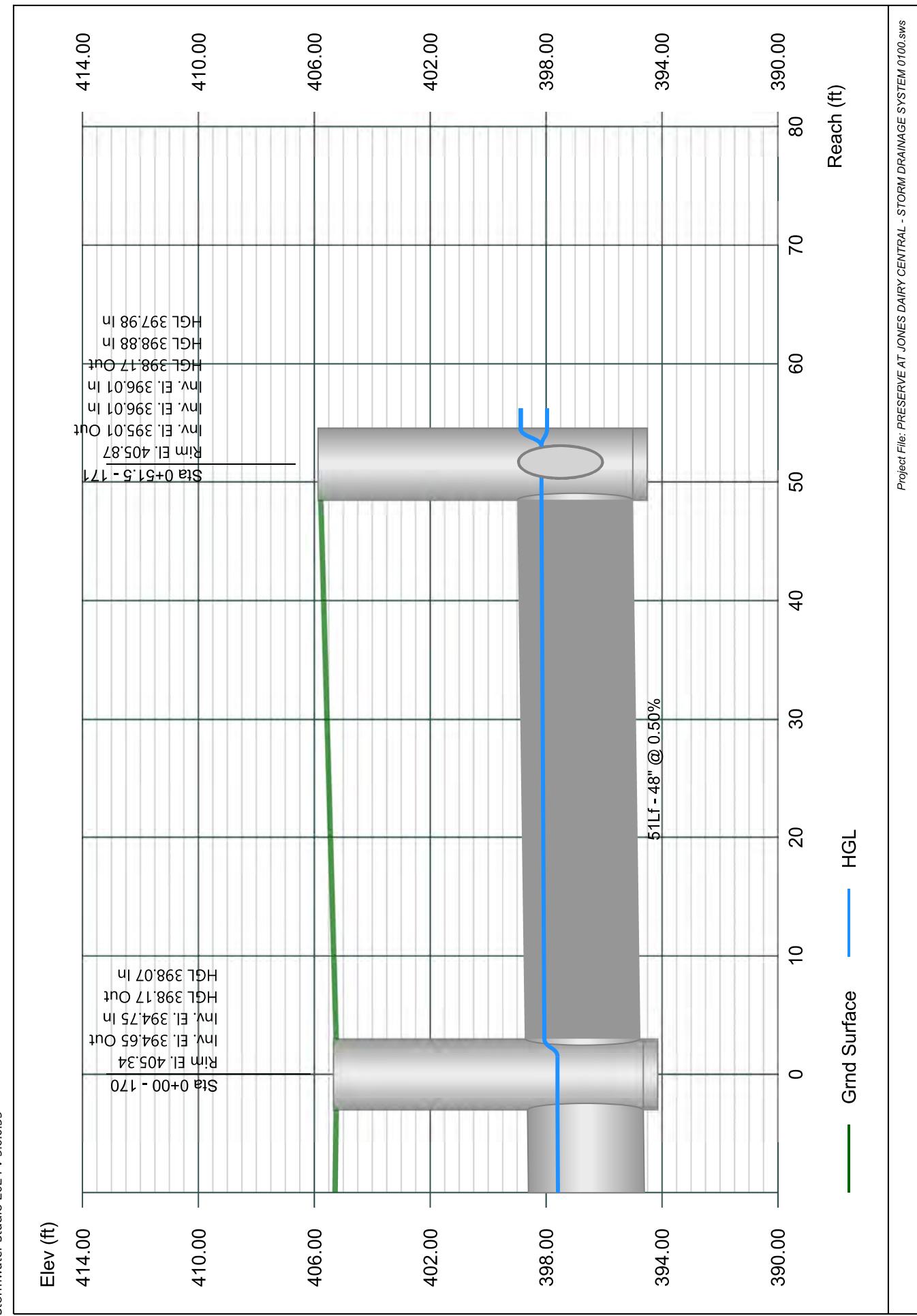


Line 71 - 171 TO 170

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

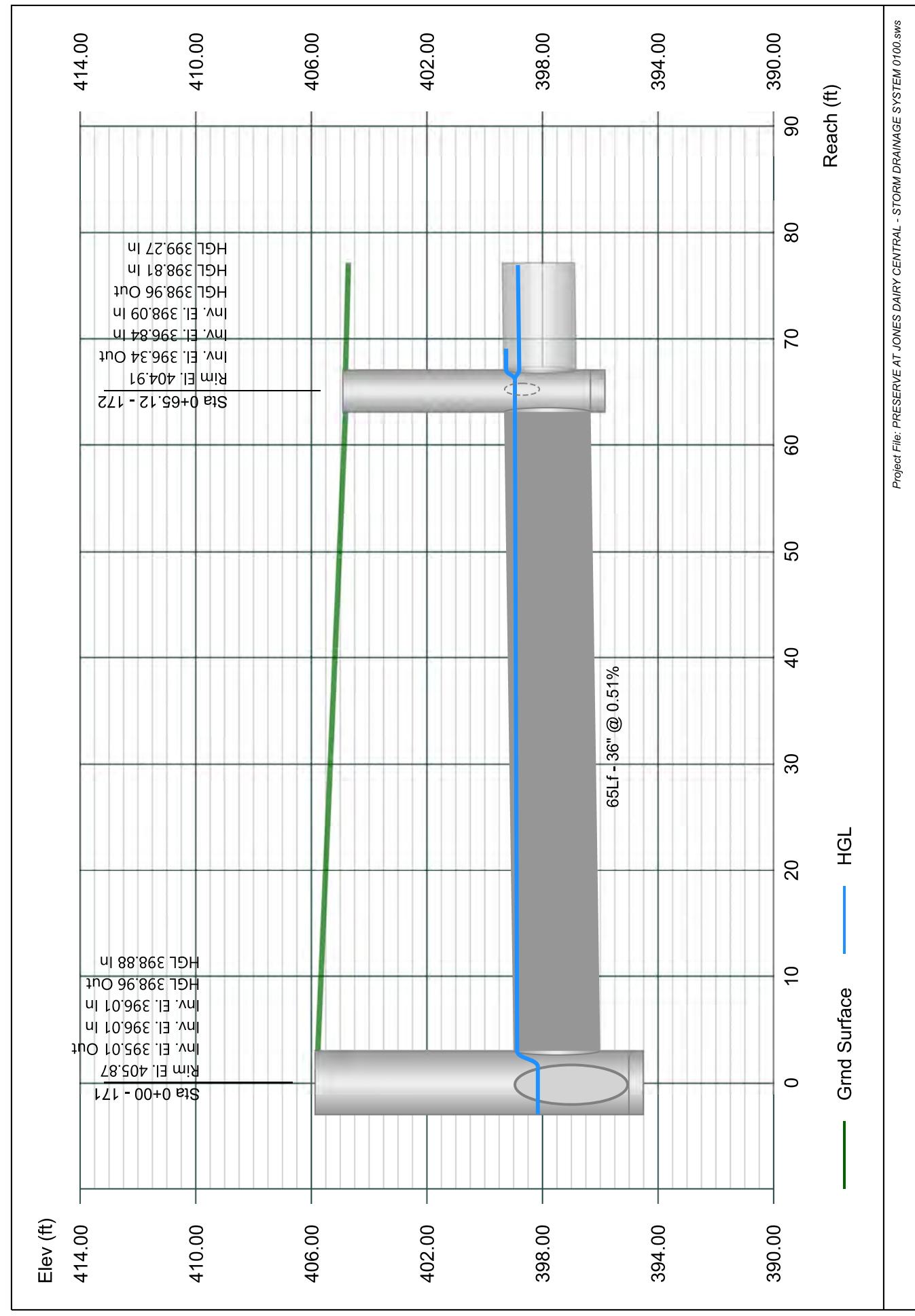


Line 72 - 172 TO 171

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

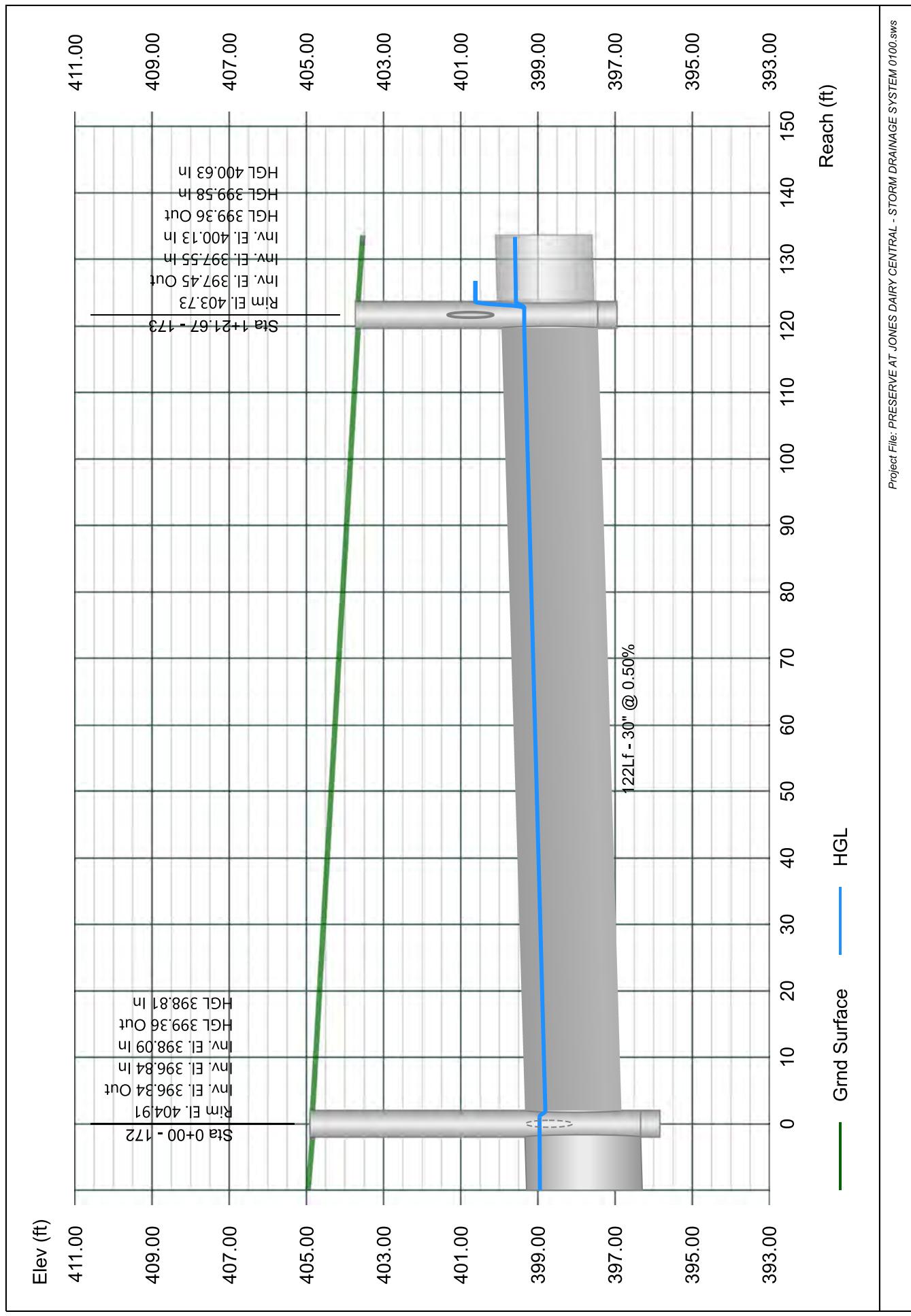


Line 73 - 173 TO 172

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

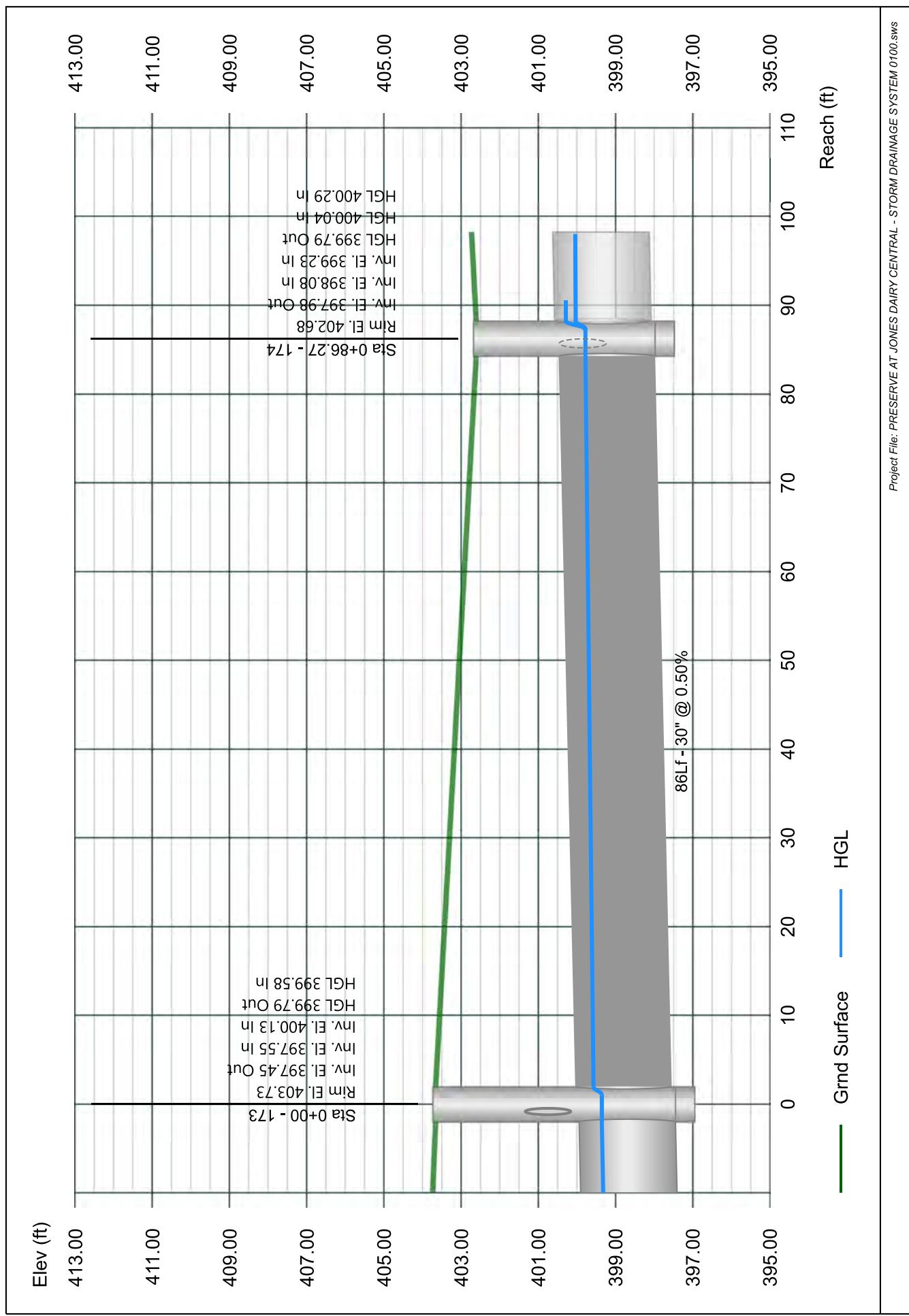


Line 74 - 174 TO 173

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

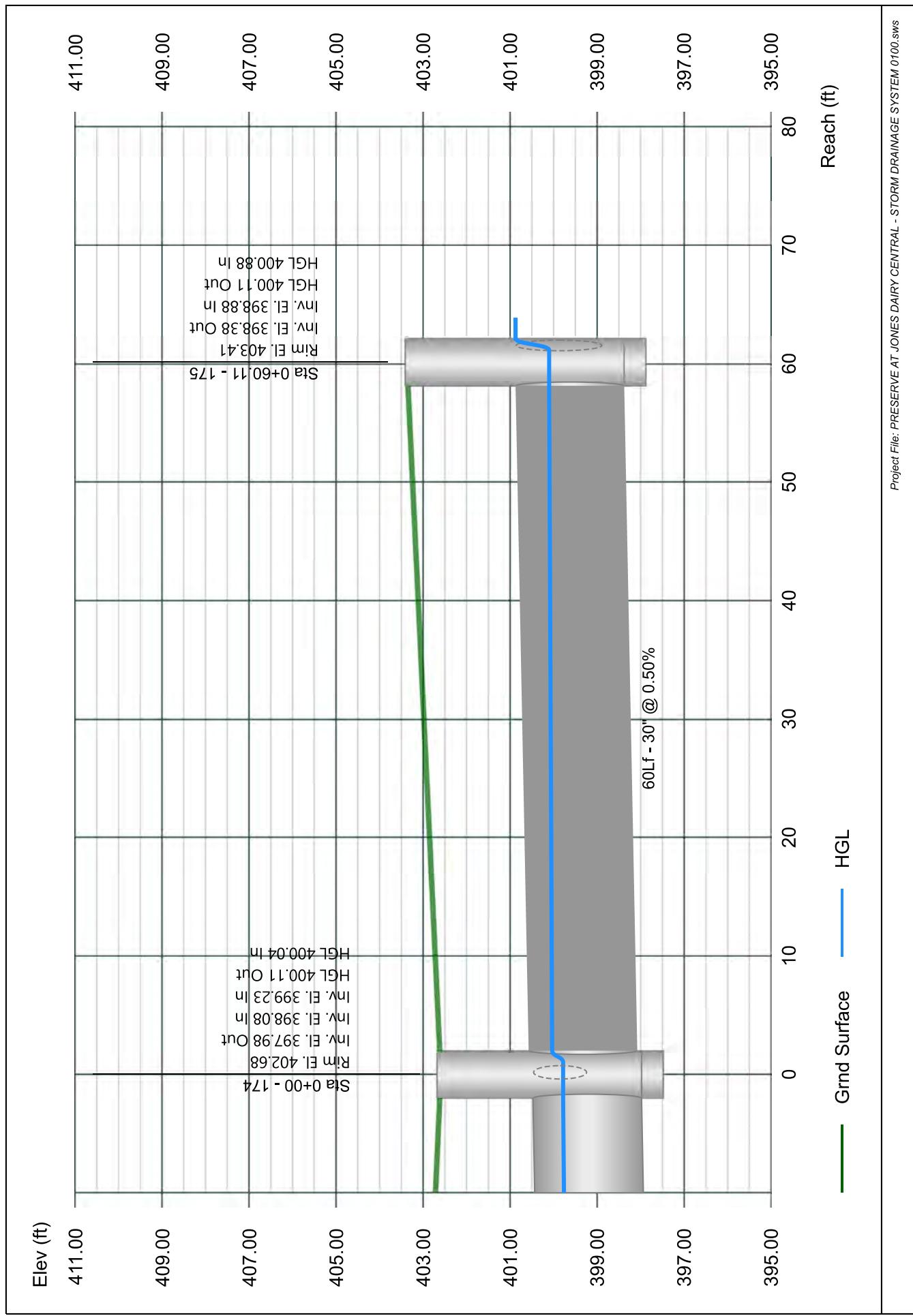


Line 75 - 175 TO 174

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

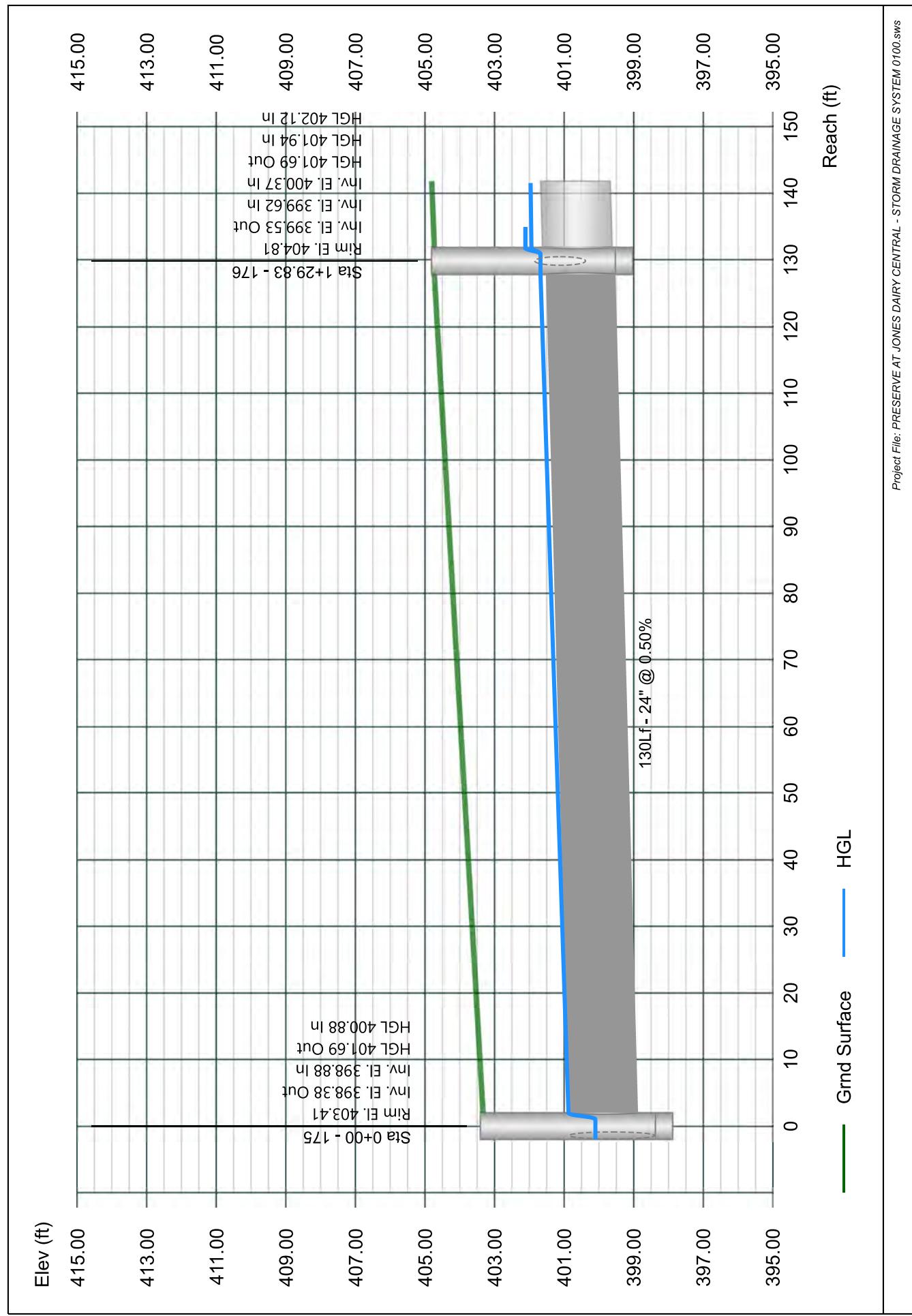


Line 76 - 176 TO 175

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

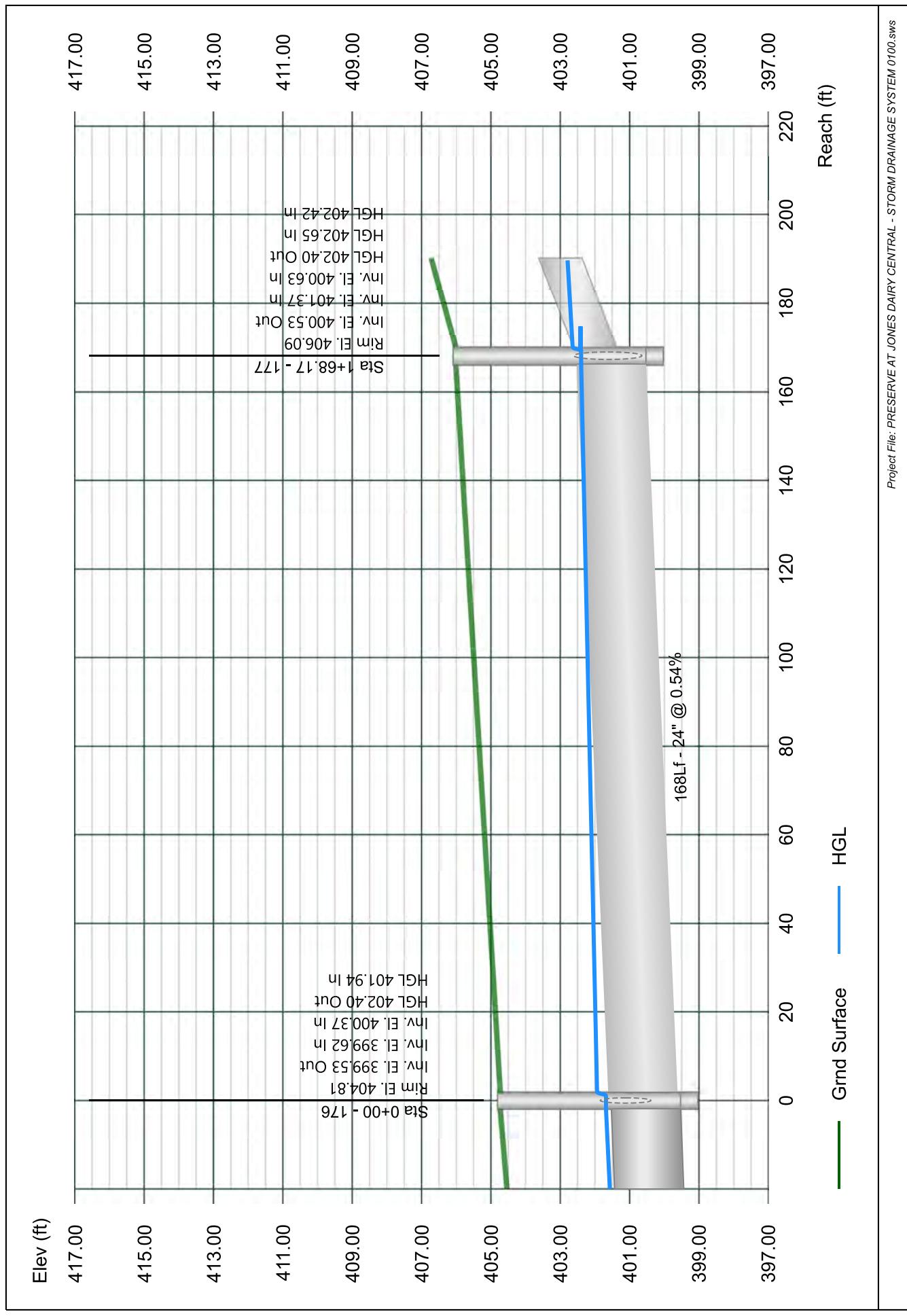


Line 77 - 177 TO 176

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

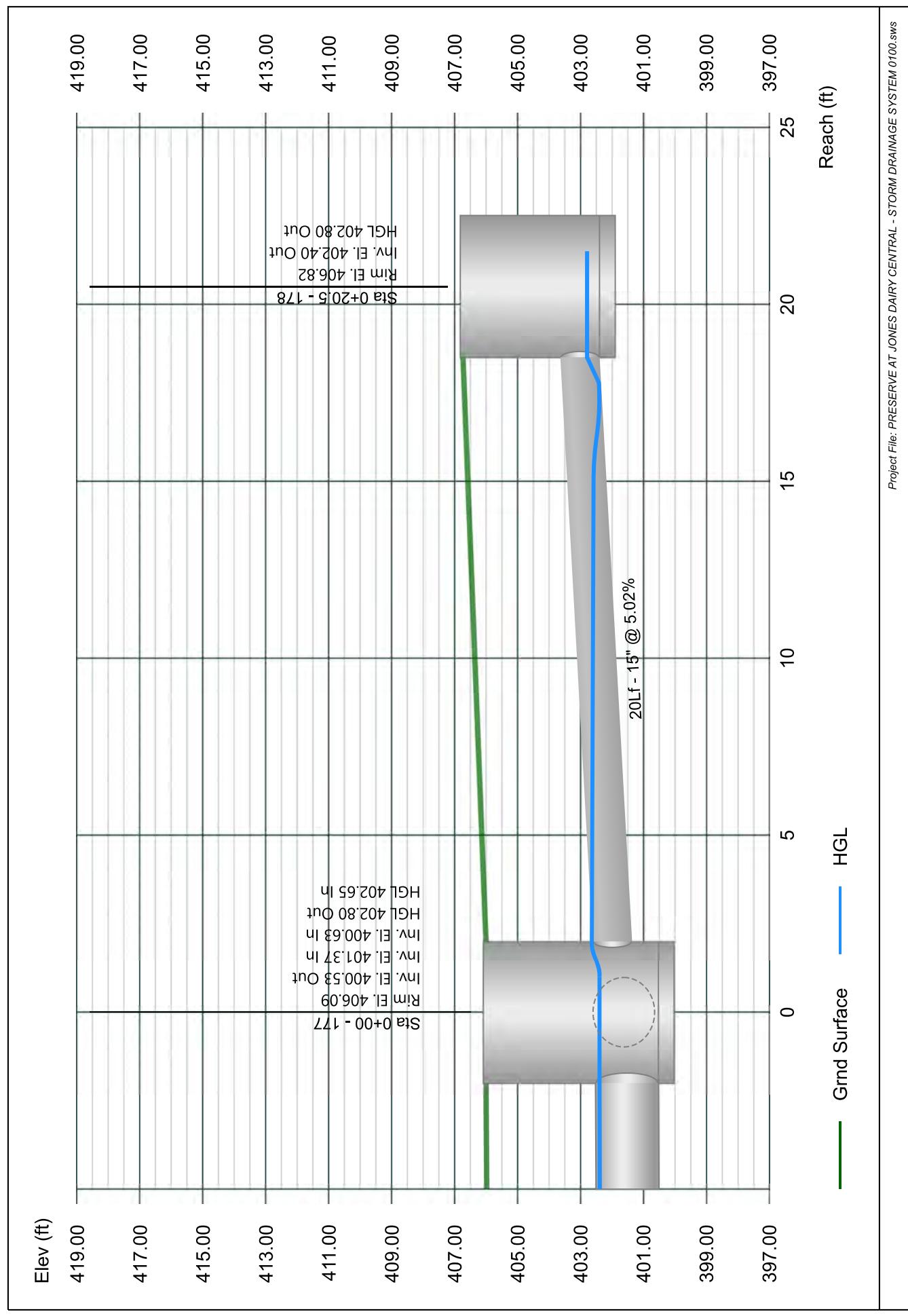


Line 78 - 178 TO 177

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

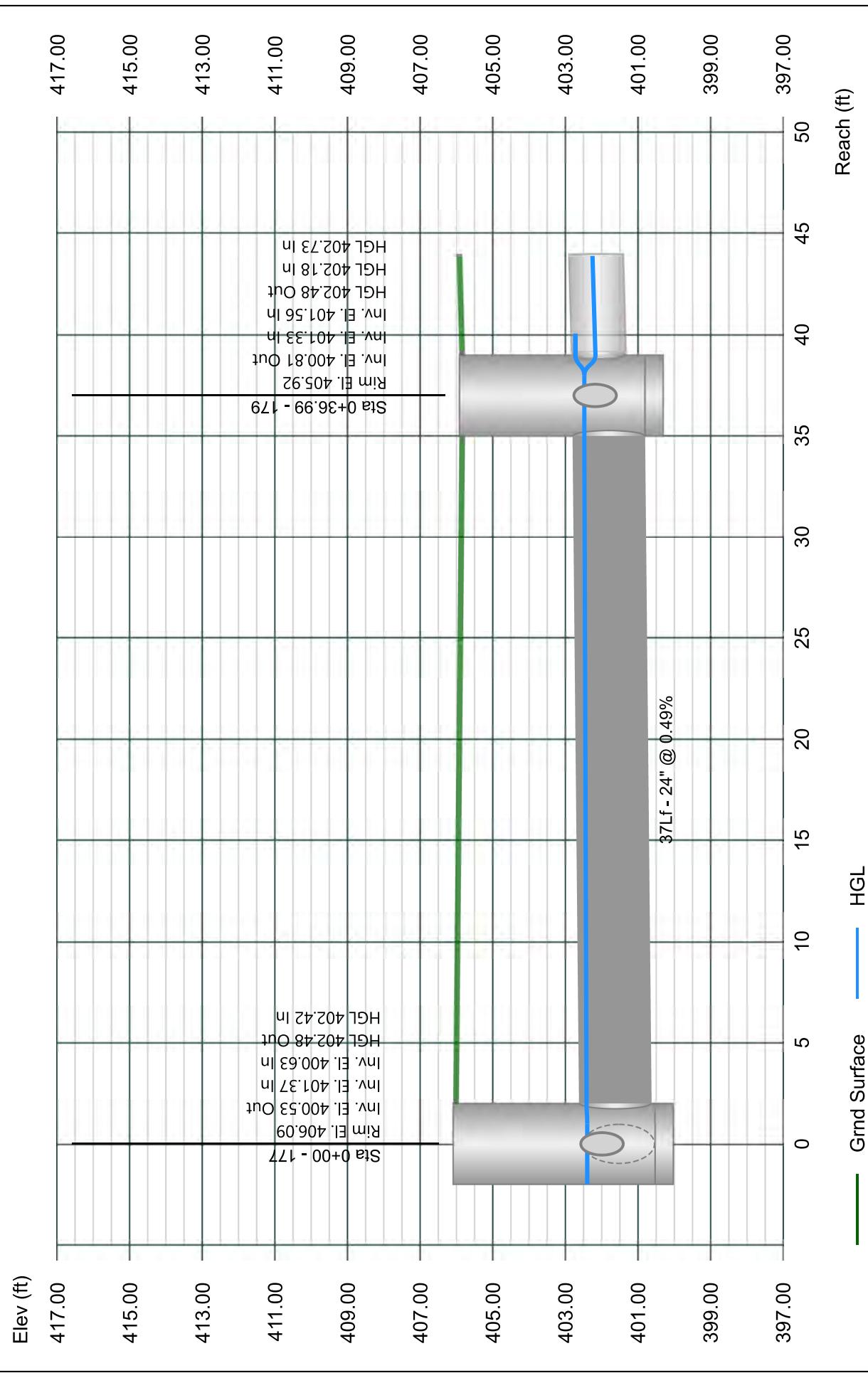


Line 79 - 179 TO 177

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

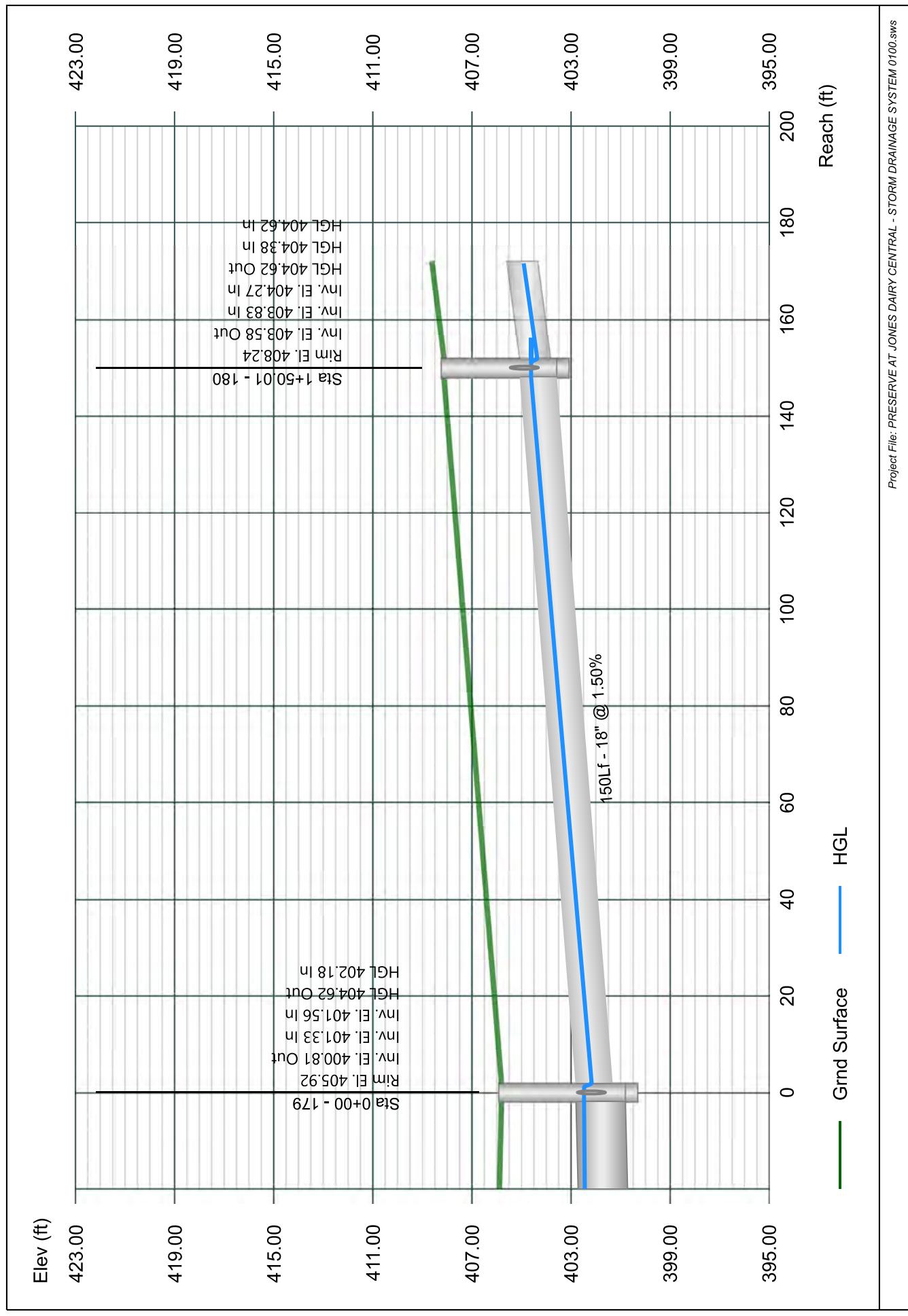


Line 80 - 180 TO 179

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

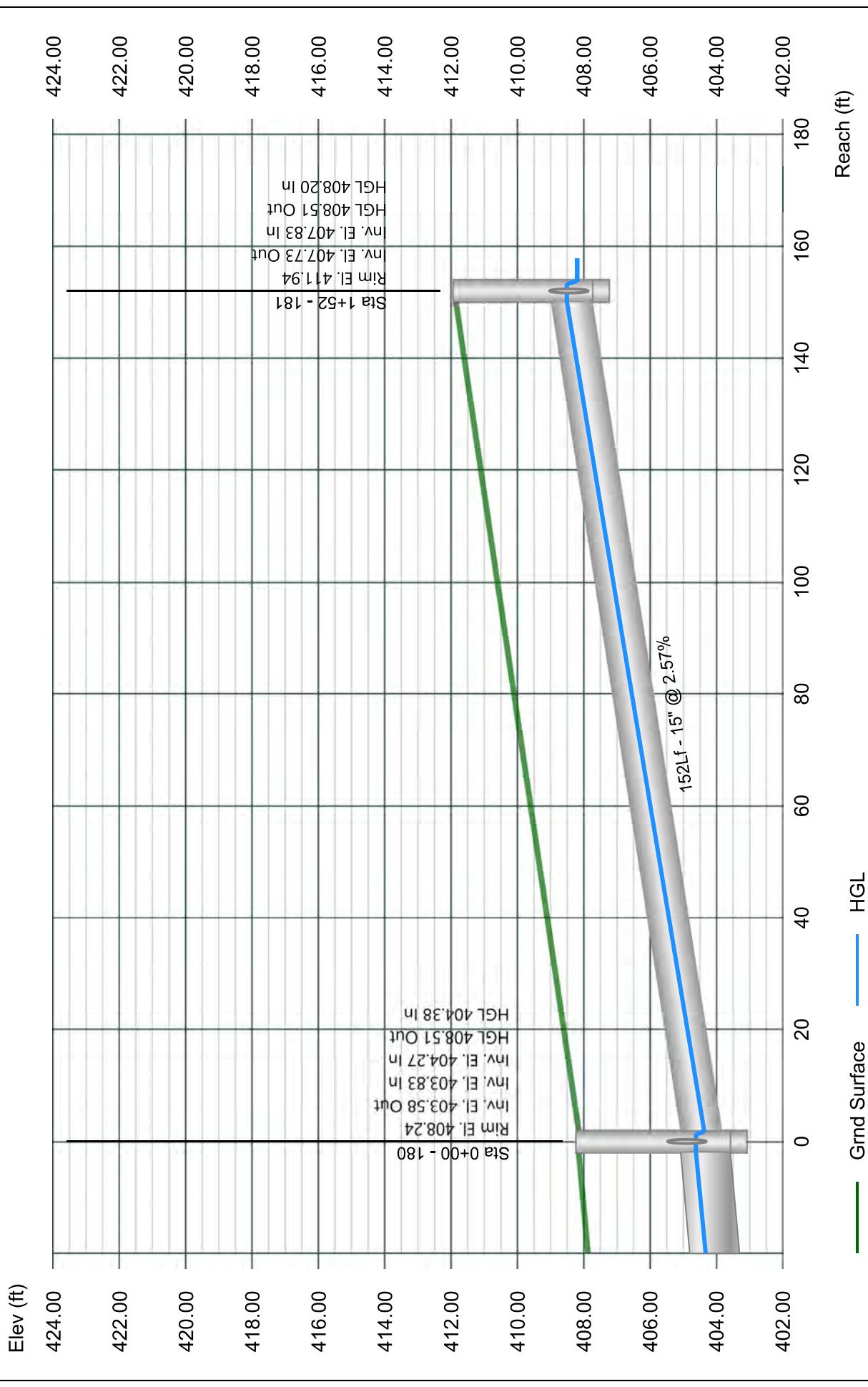


Line 81 - 181 TO 180

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

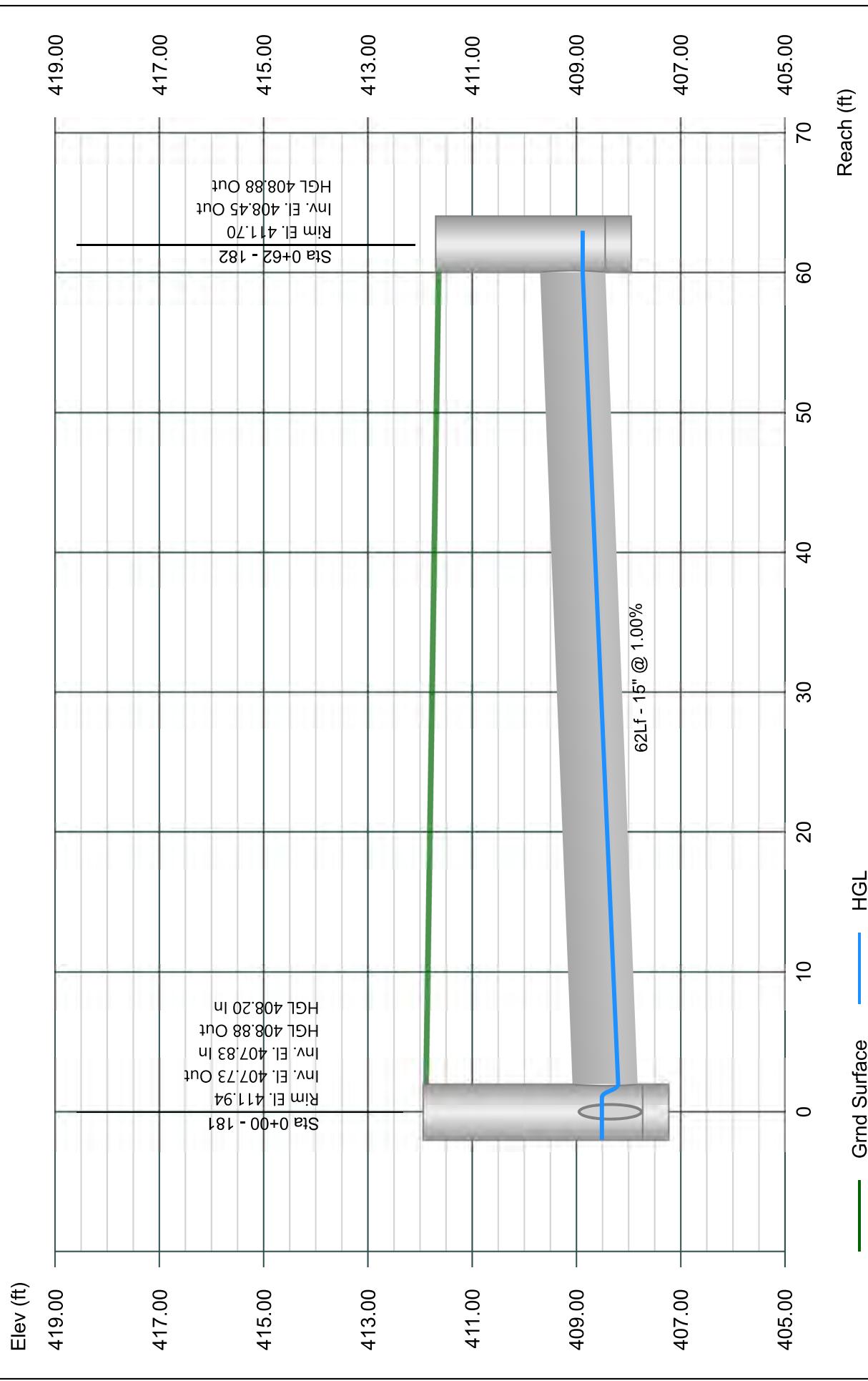


Line 82 - 182 TO 181

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

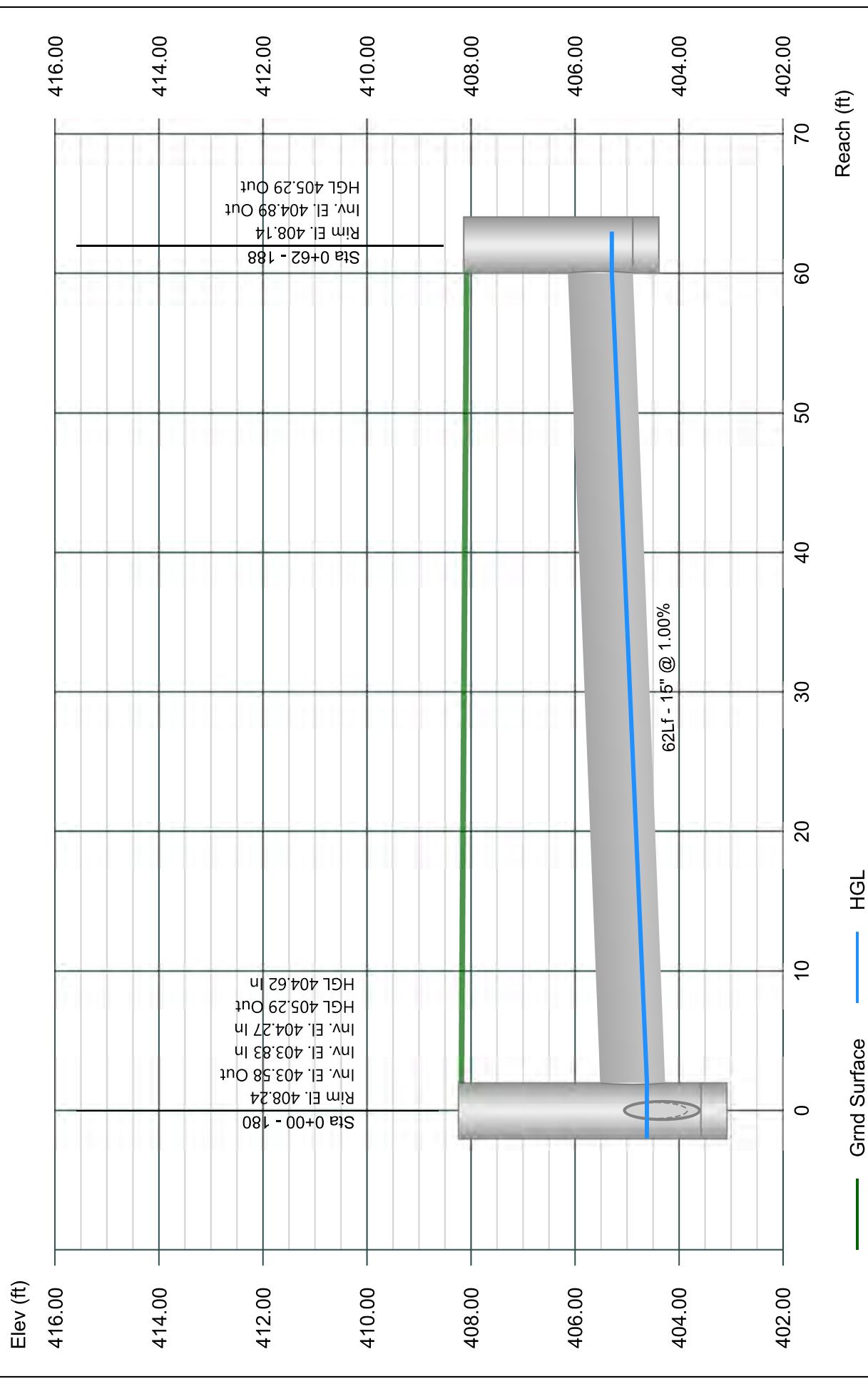


Line 83 - 188 TO 180

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

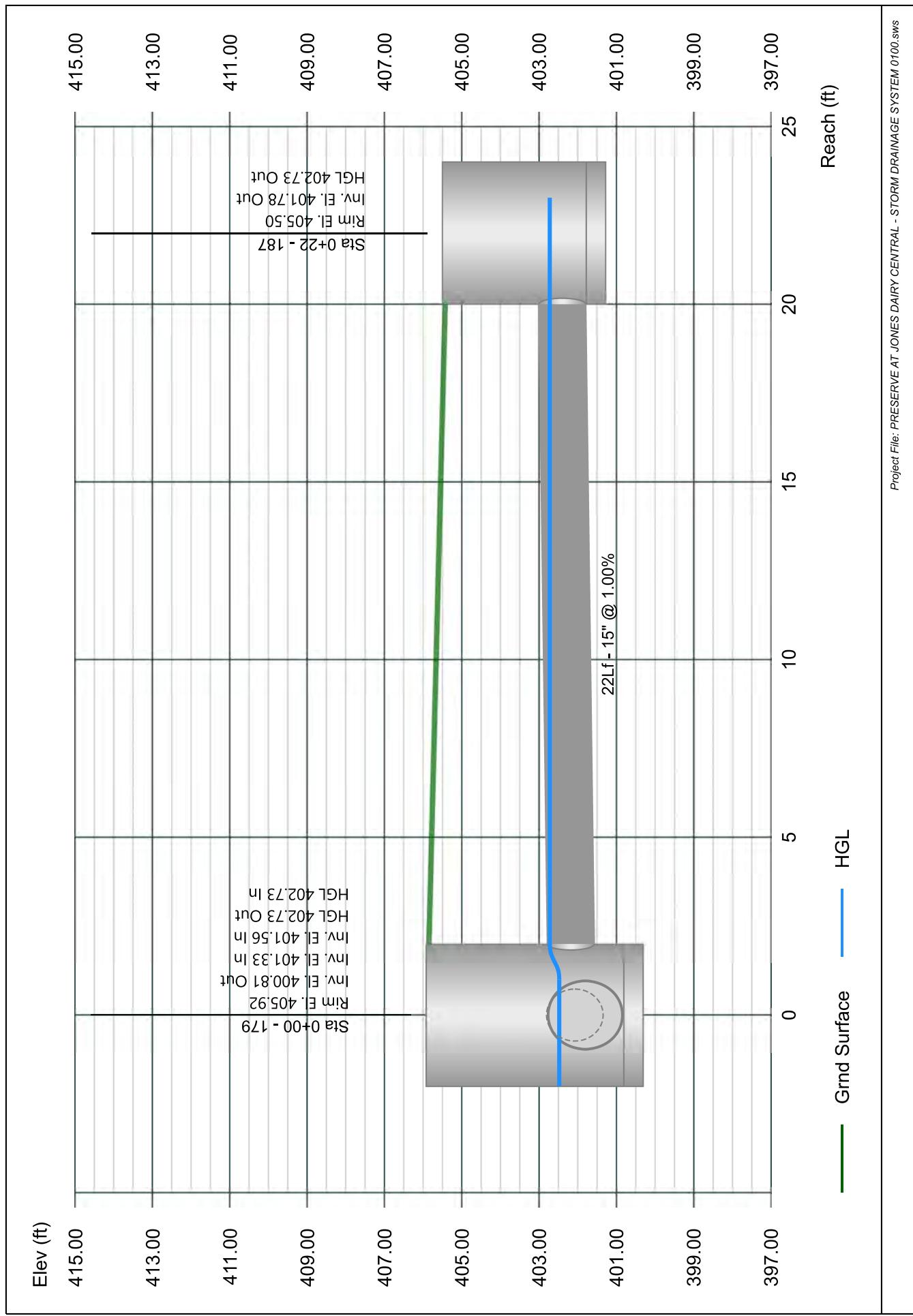


Line 84 - 187 TO 179

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

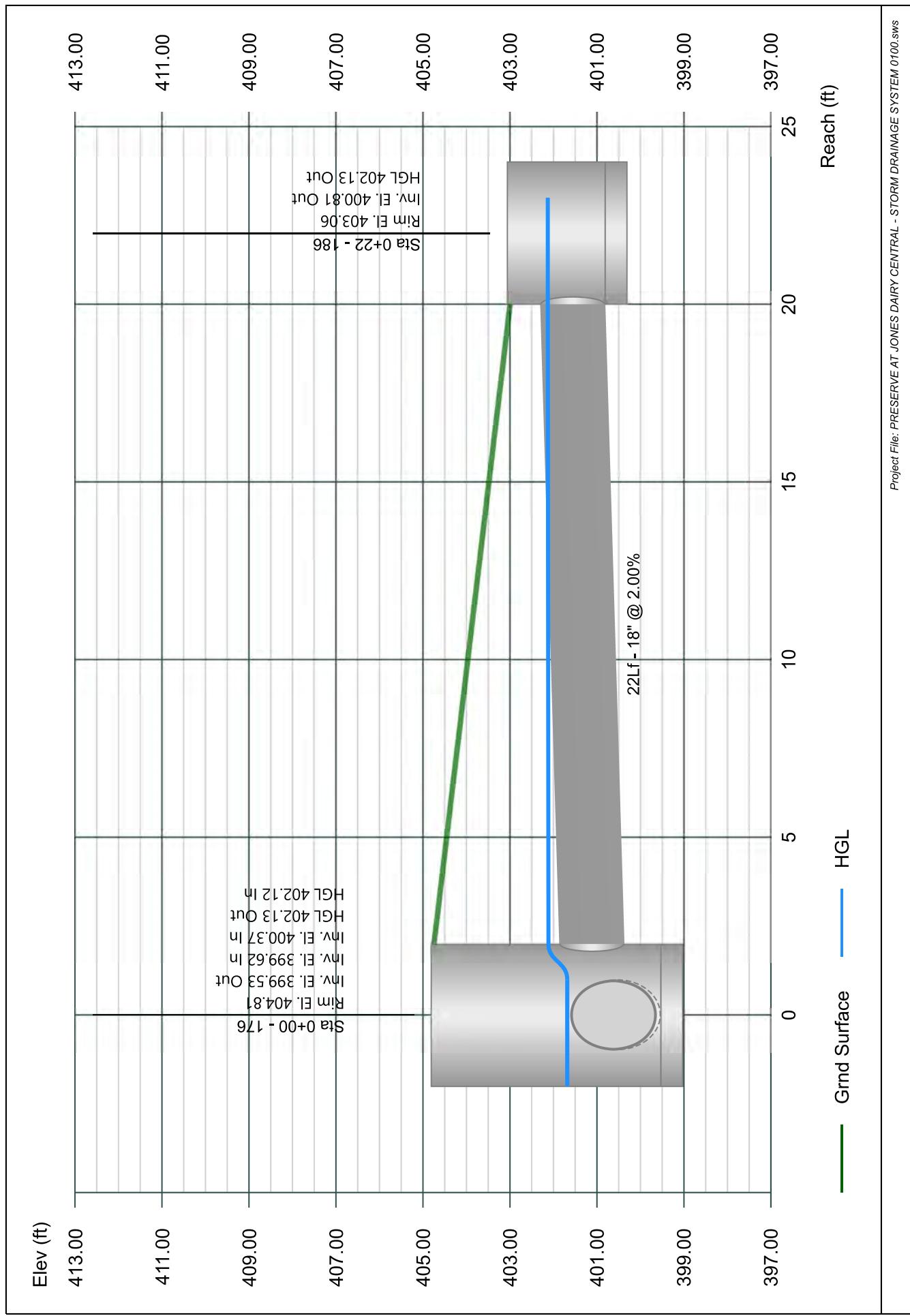


Line 85 - 186 TO 176

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

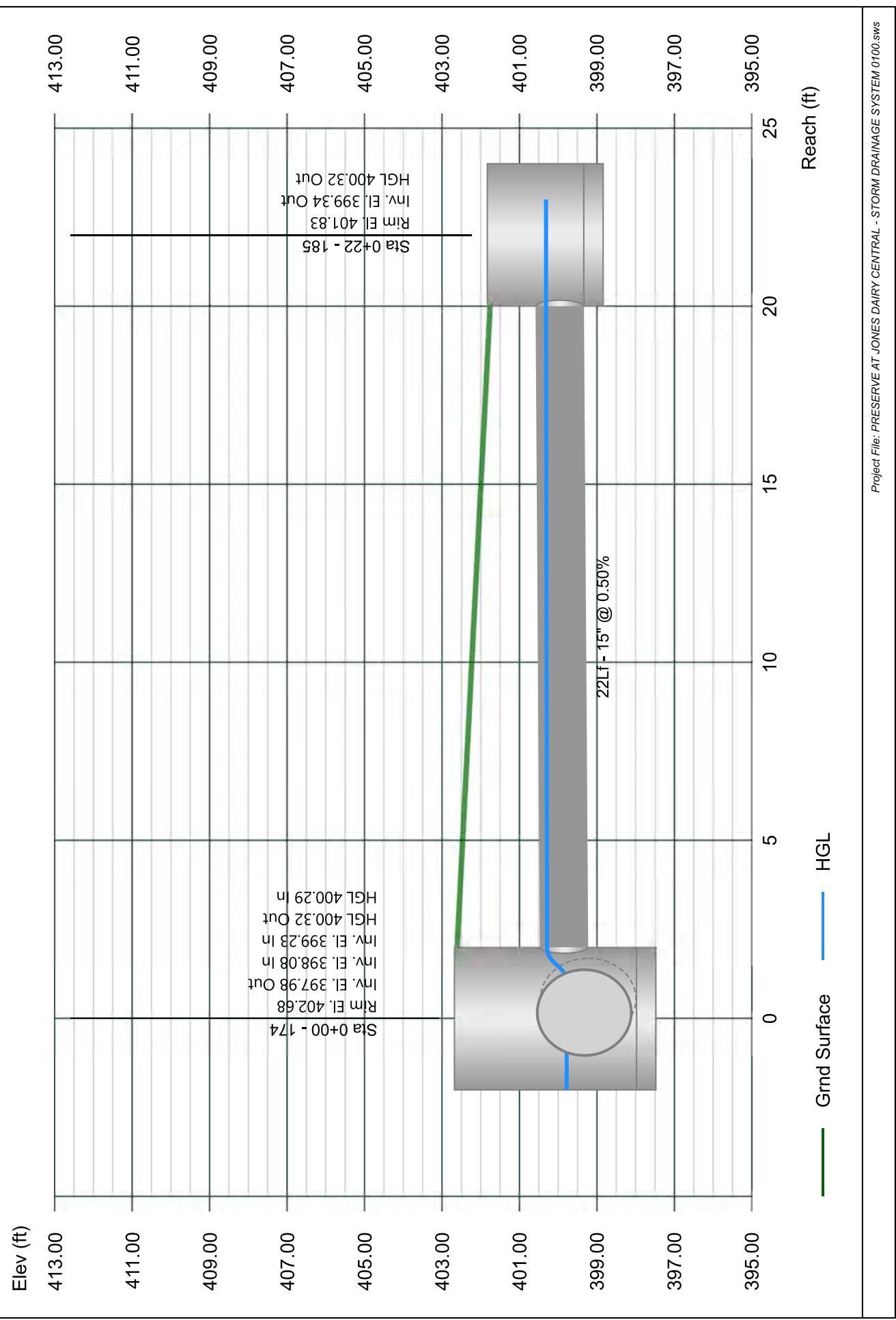


Line 86 - 185 TO 174

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

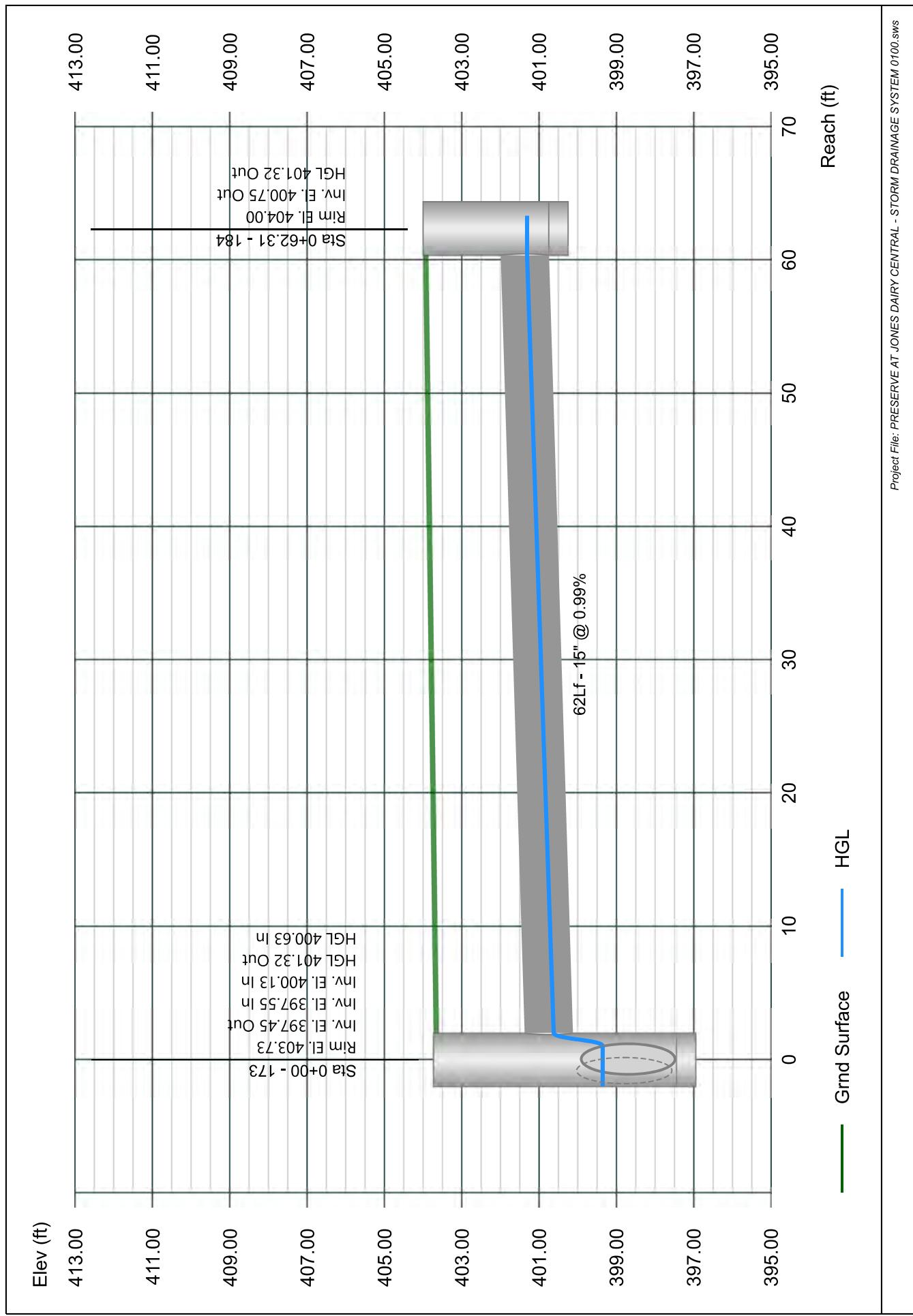


Line 87 - 184 TO 173

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

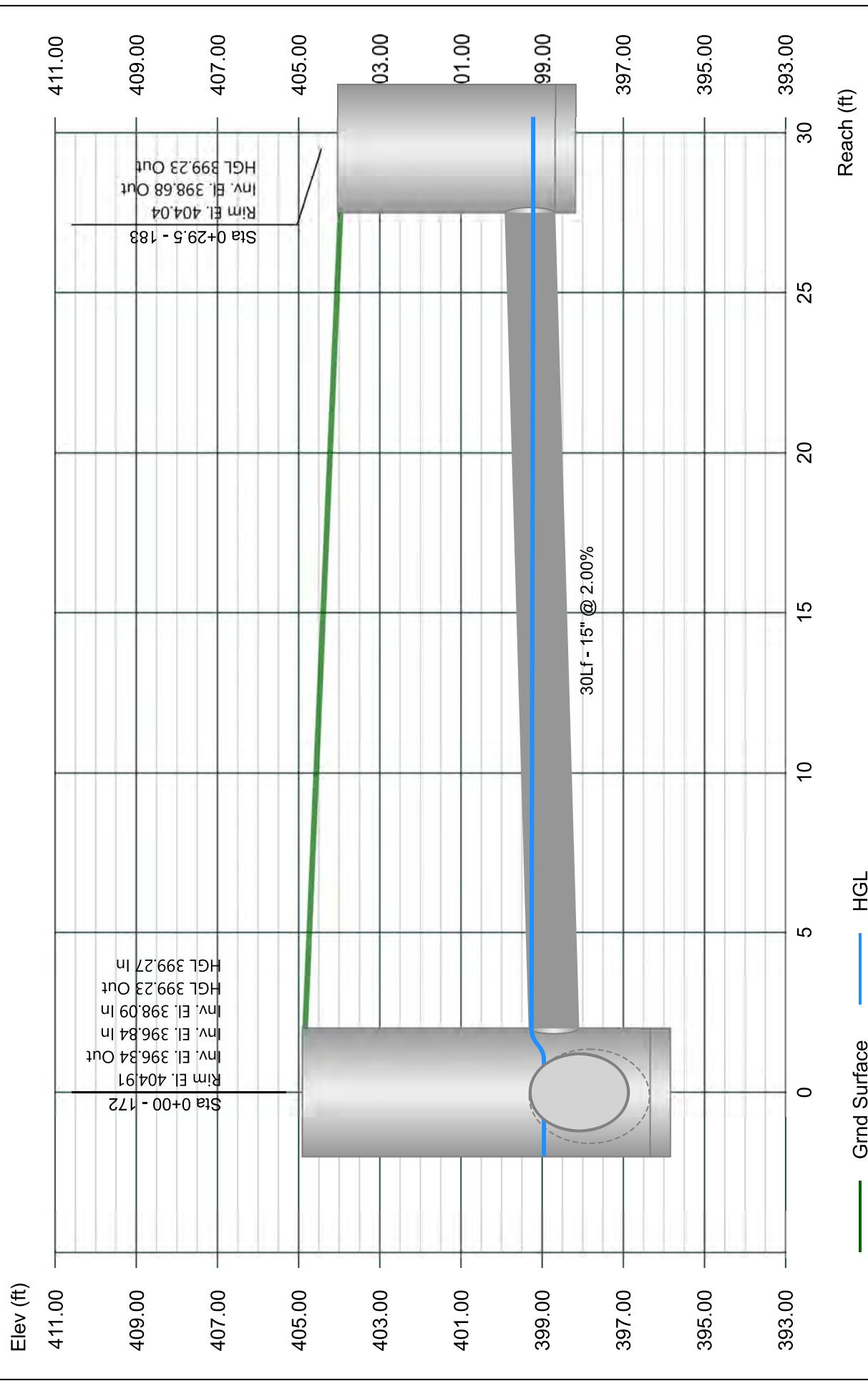


Line 88 - 183 TO 172

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024



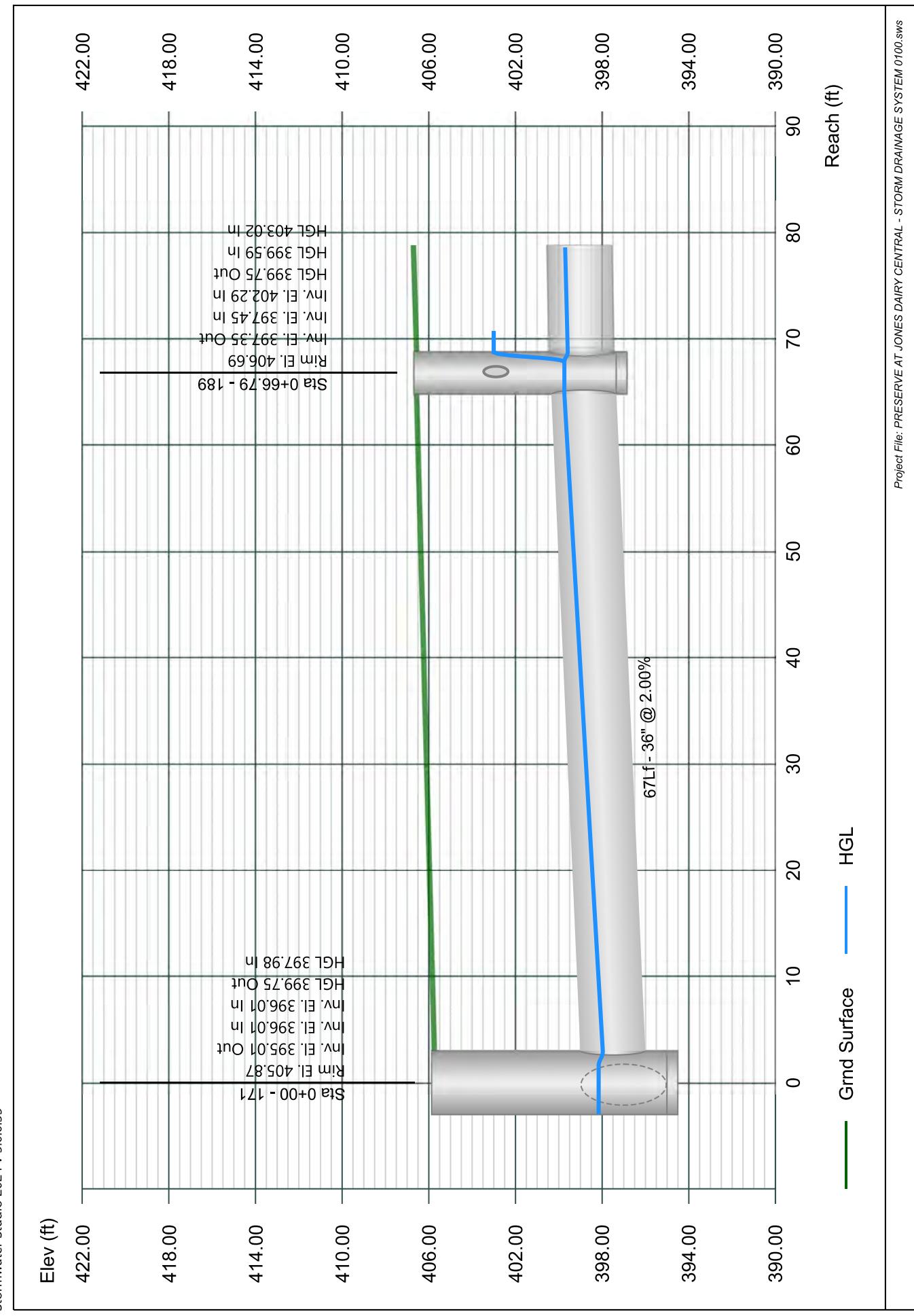
Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Line 89 - 189 TO 171

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

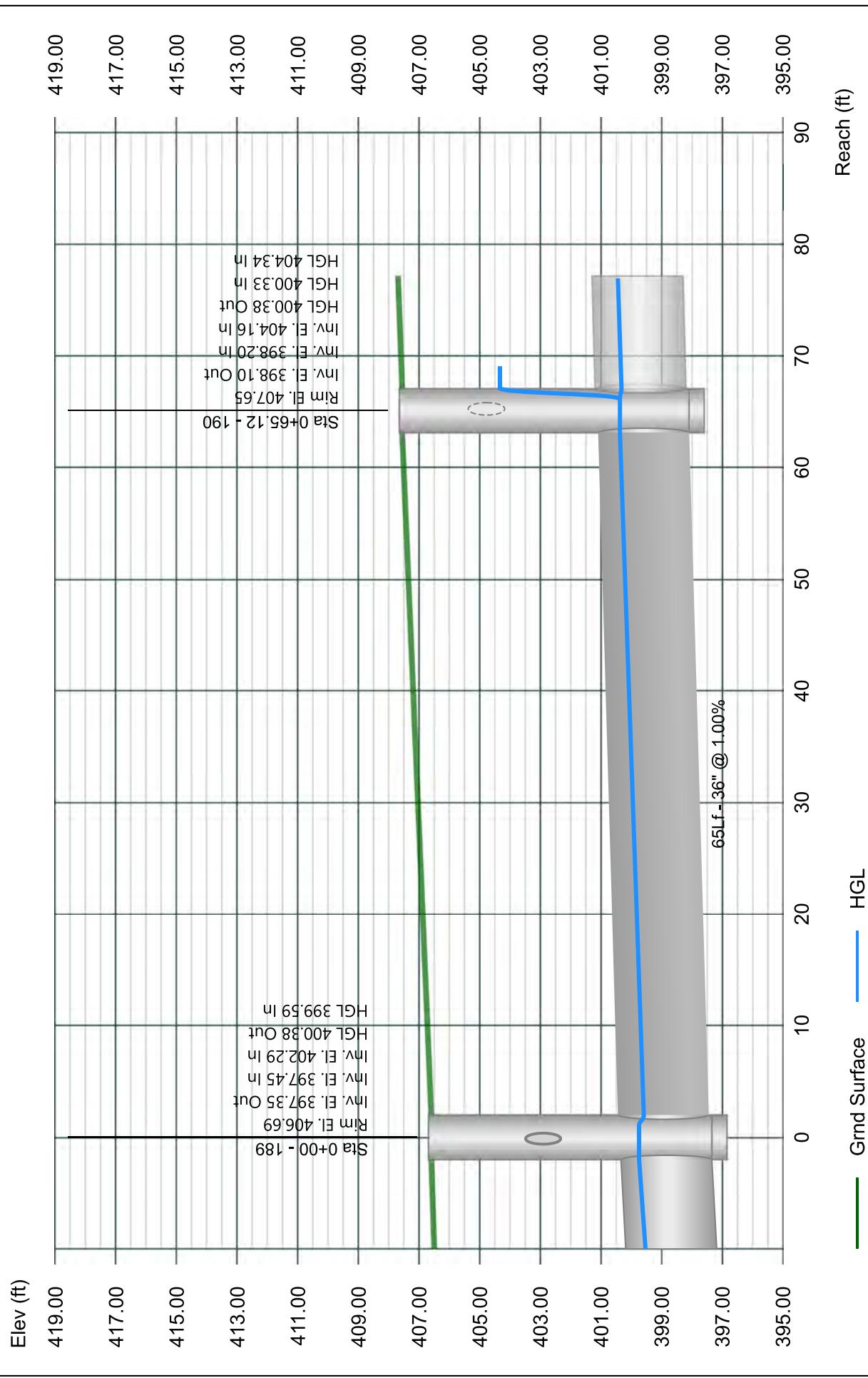


Line 90 - 190 TO 189

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

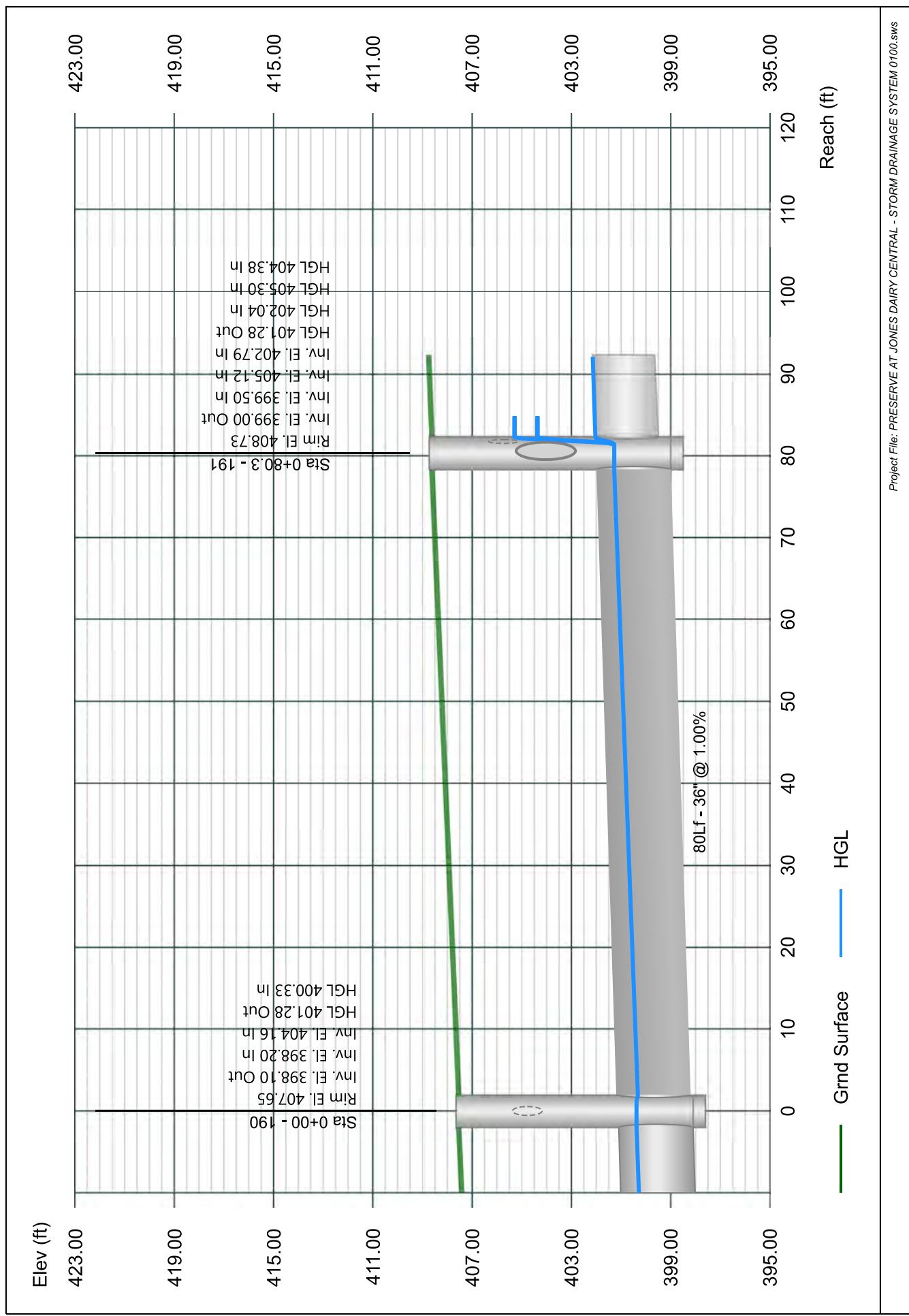


Line 91 - 191 TO 190

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

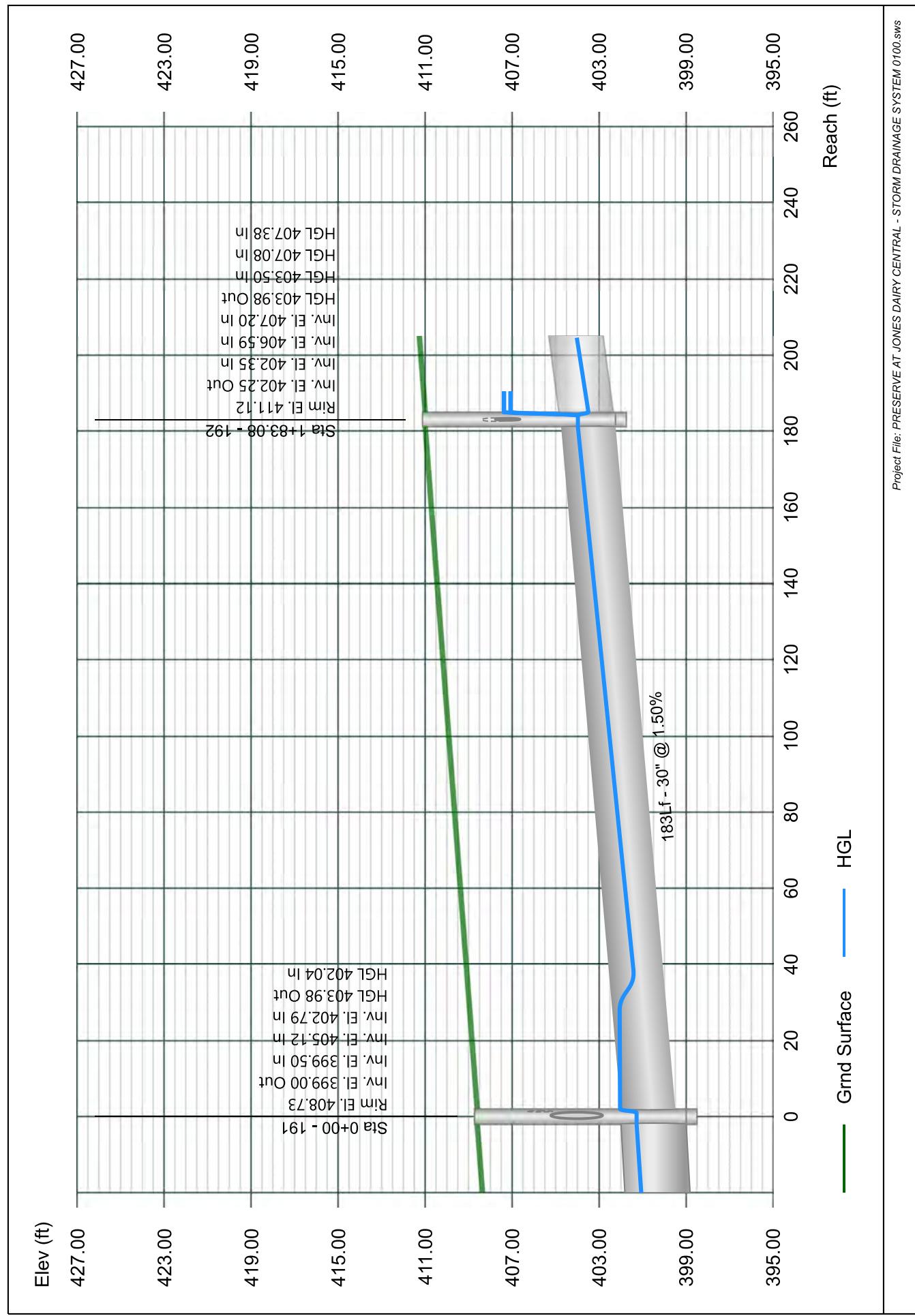


Line 92 - 192 TO 191

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

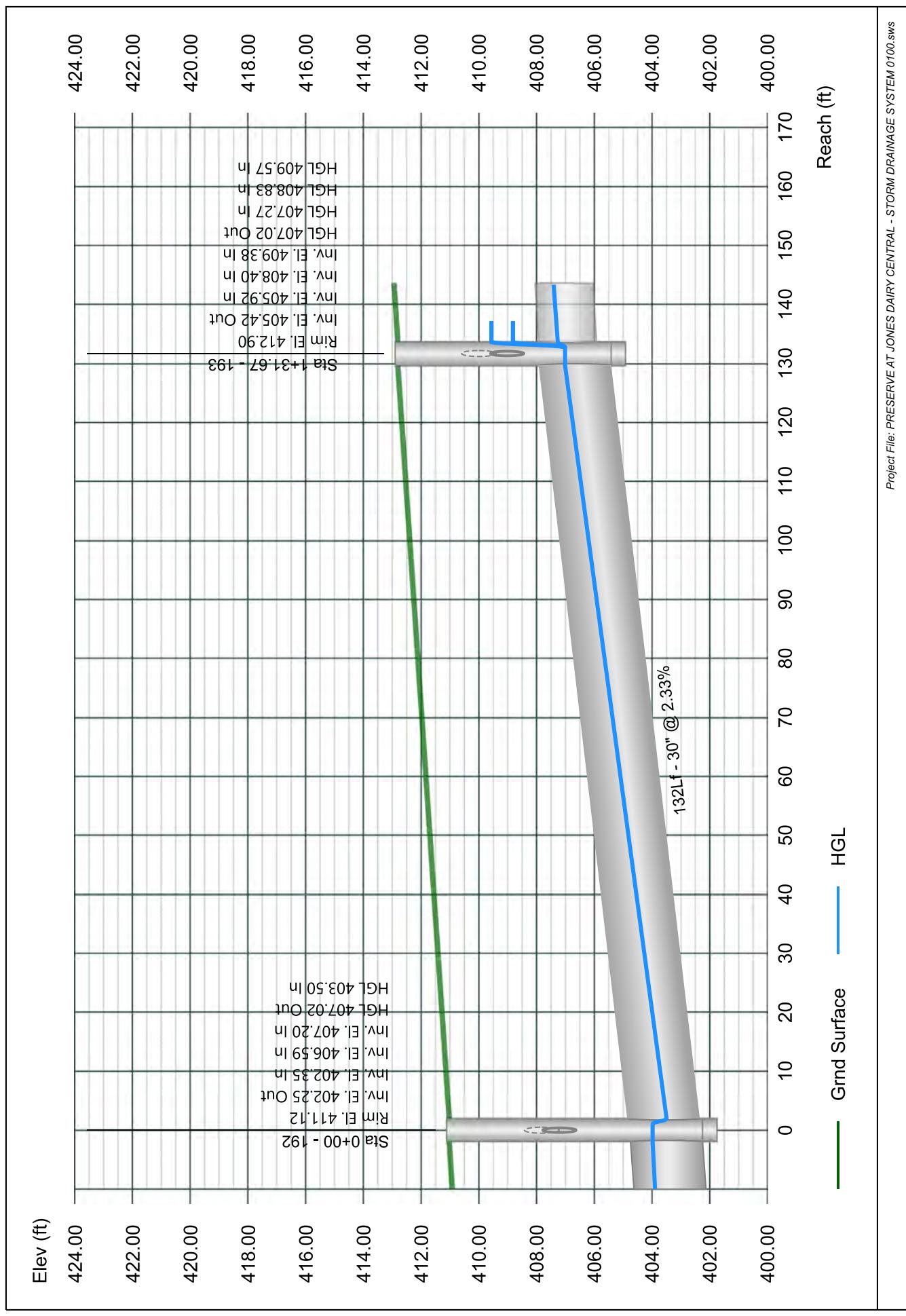


Line 93 - 193 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

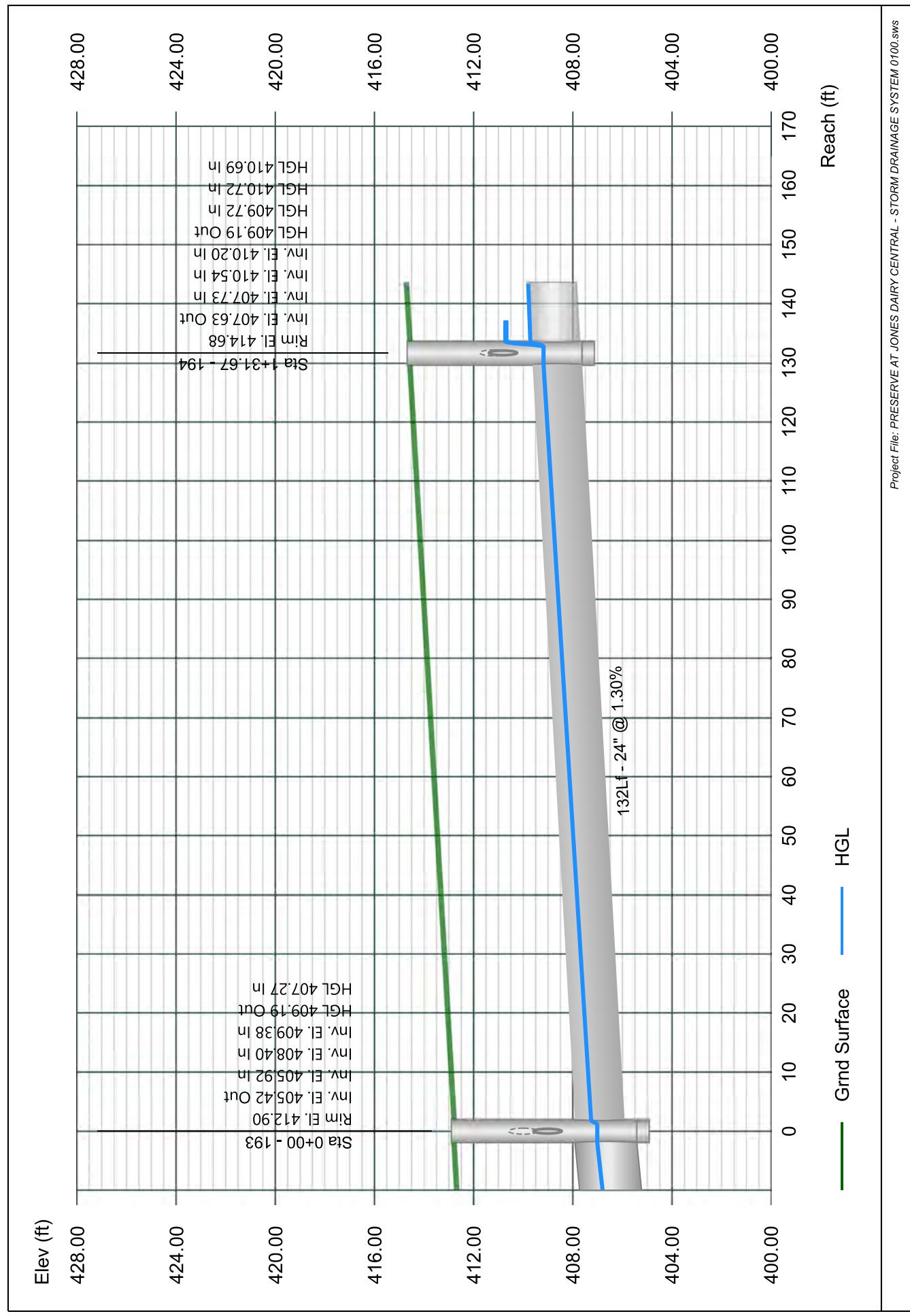


Line 94 - 194 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

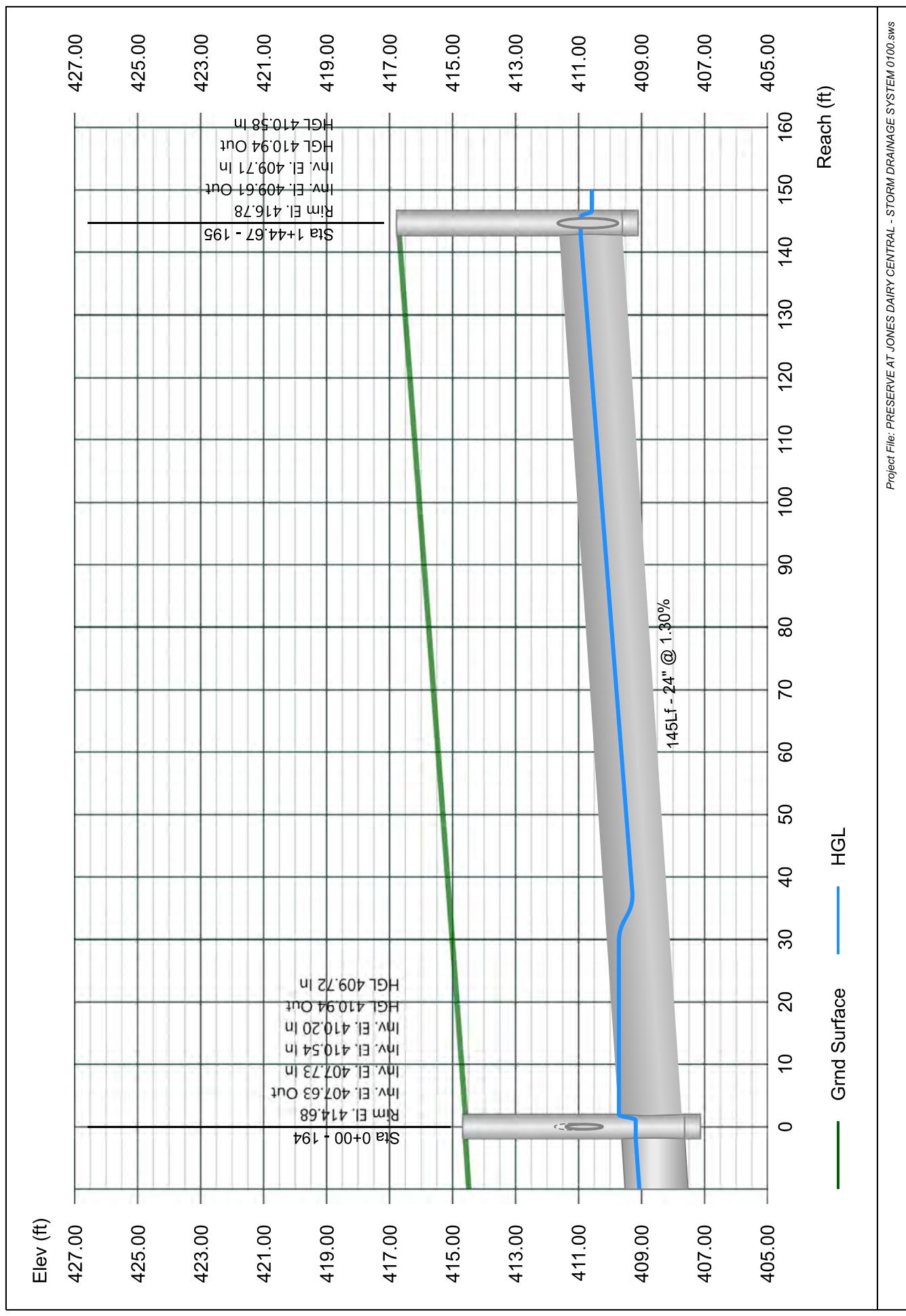


Line 95 - 195 TO 194

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

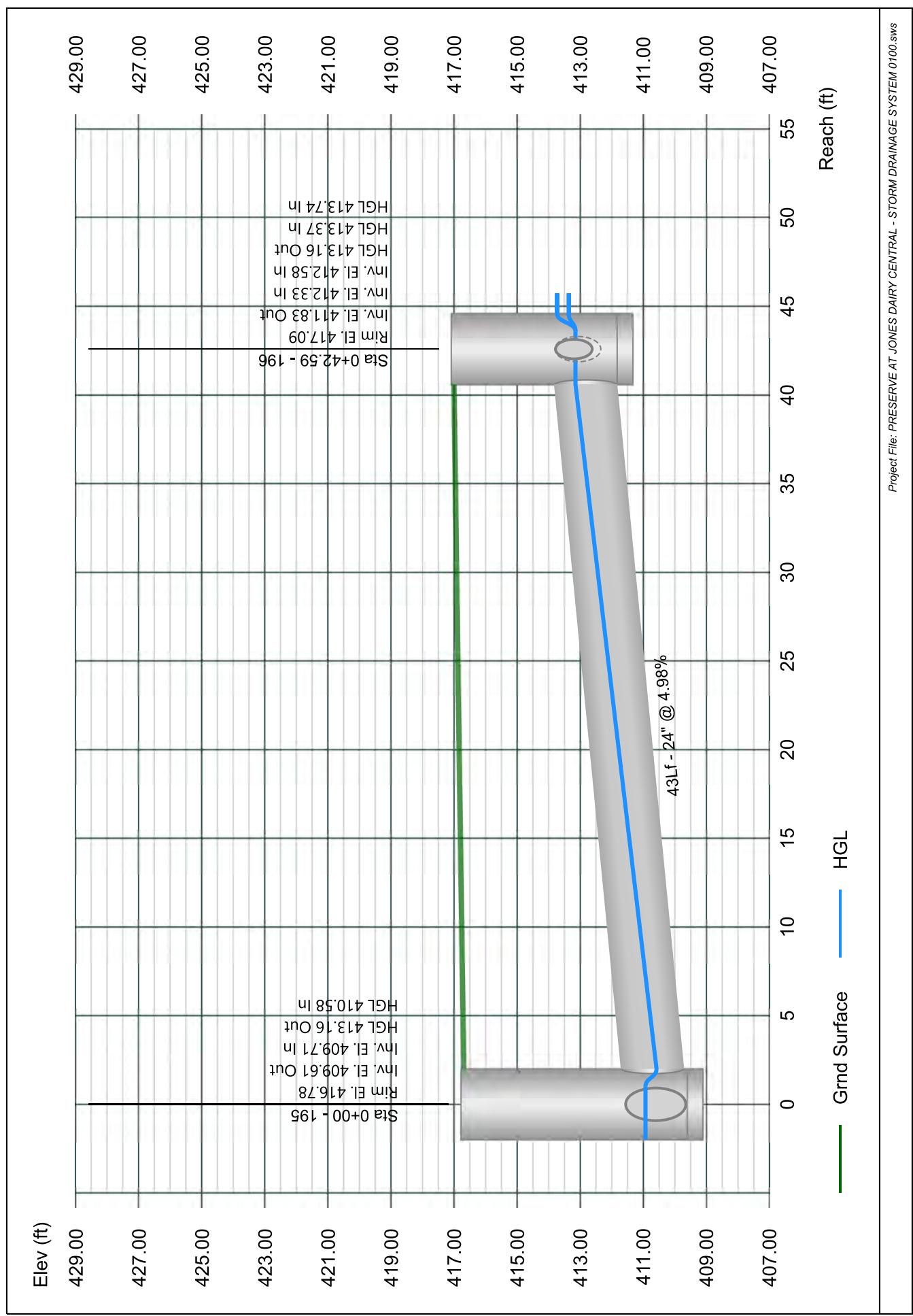


Line 96 - 196 TO 195

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

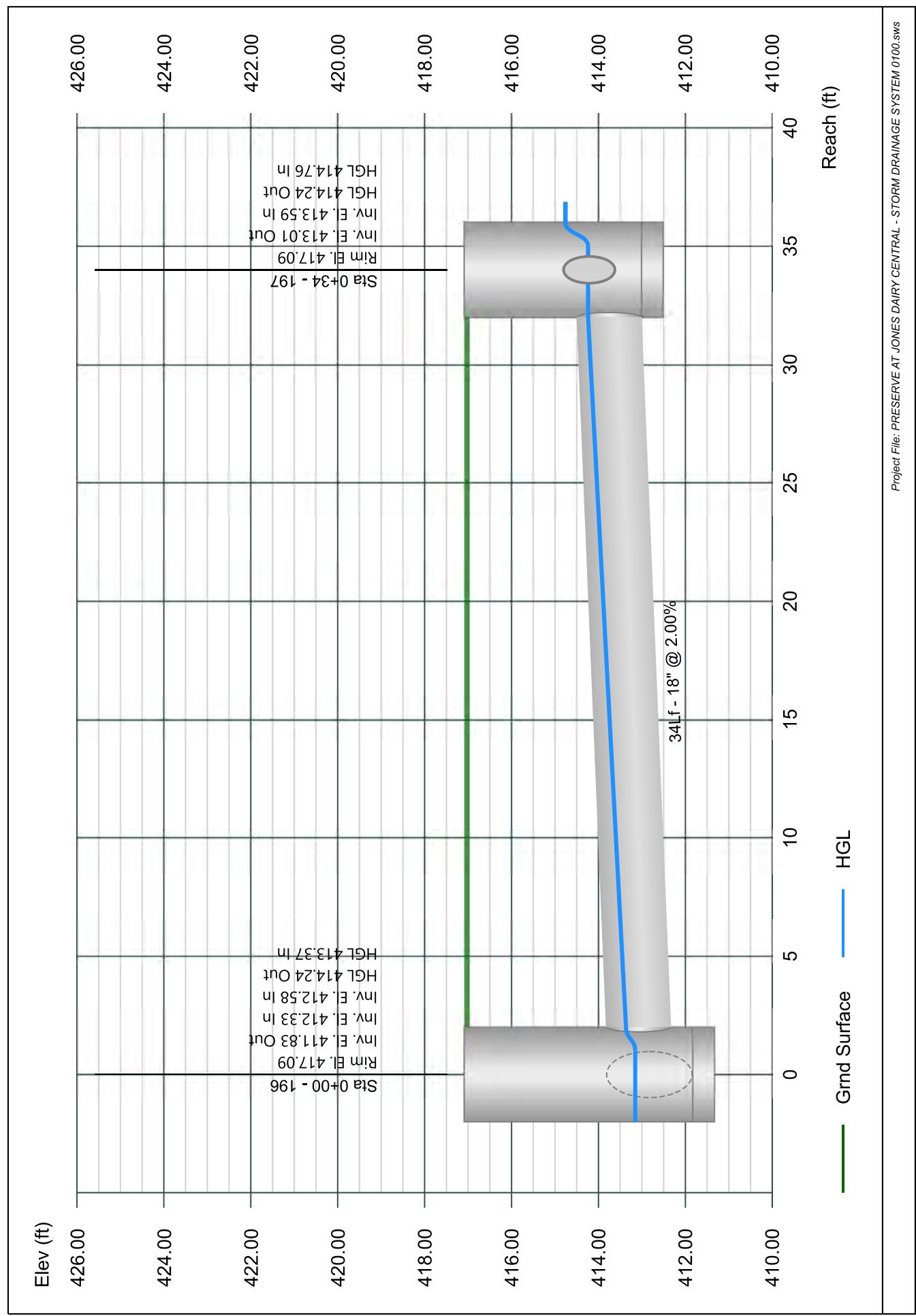


Line 97 - 197 TO 196

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

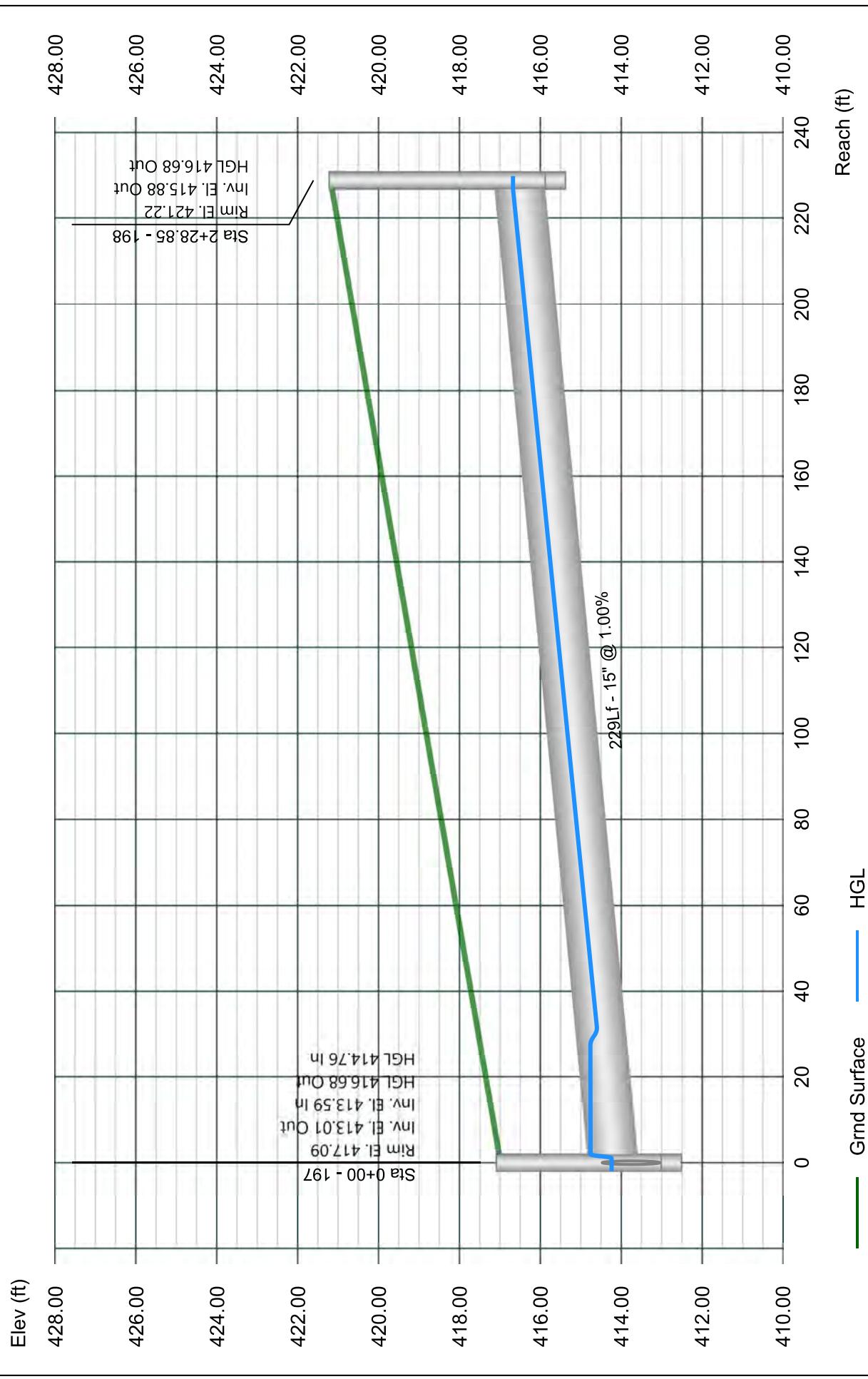


Line 98 - 198 TO 197

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

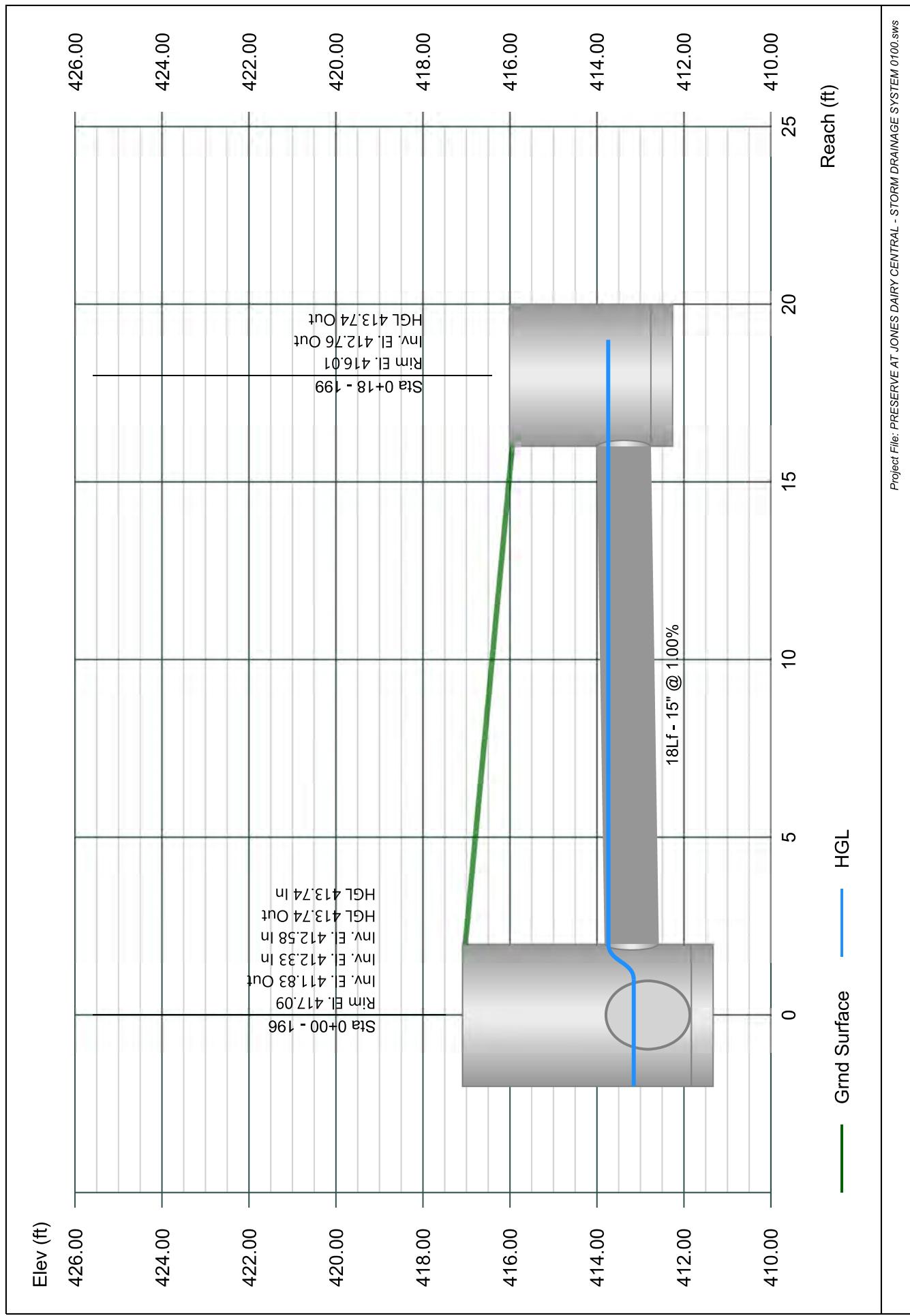


Line 99 - 199 TO 196

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

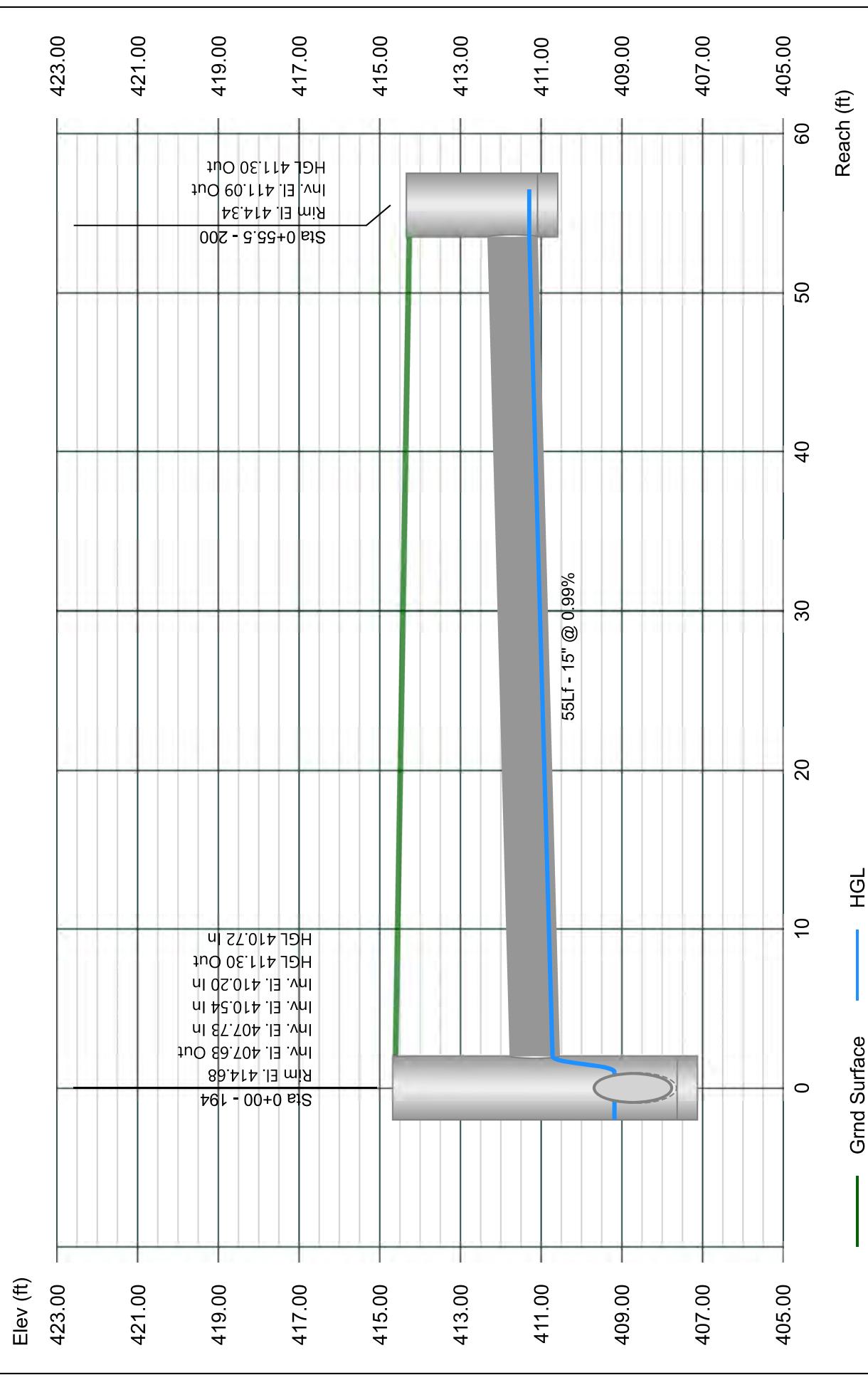


Line 100 - 200 TO 194

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

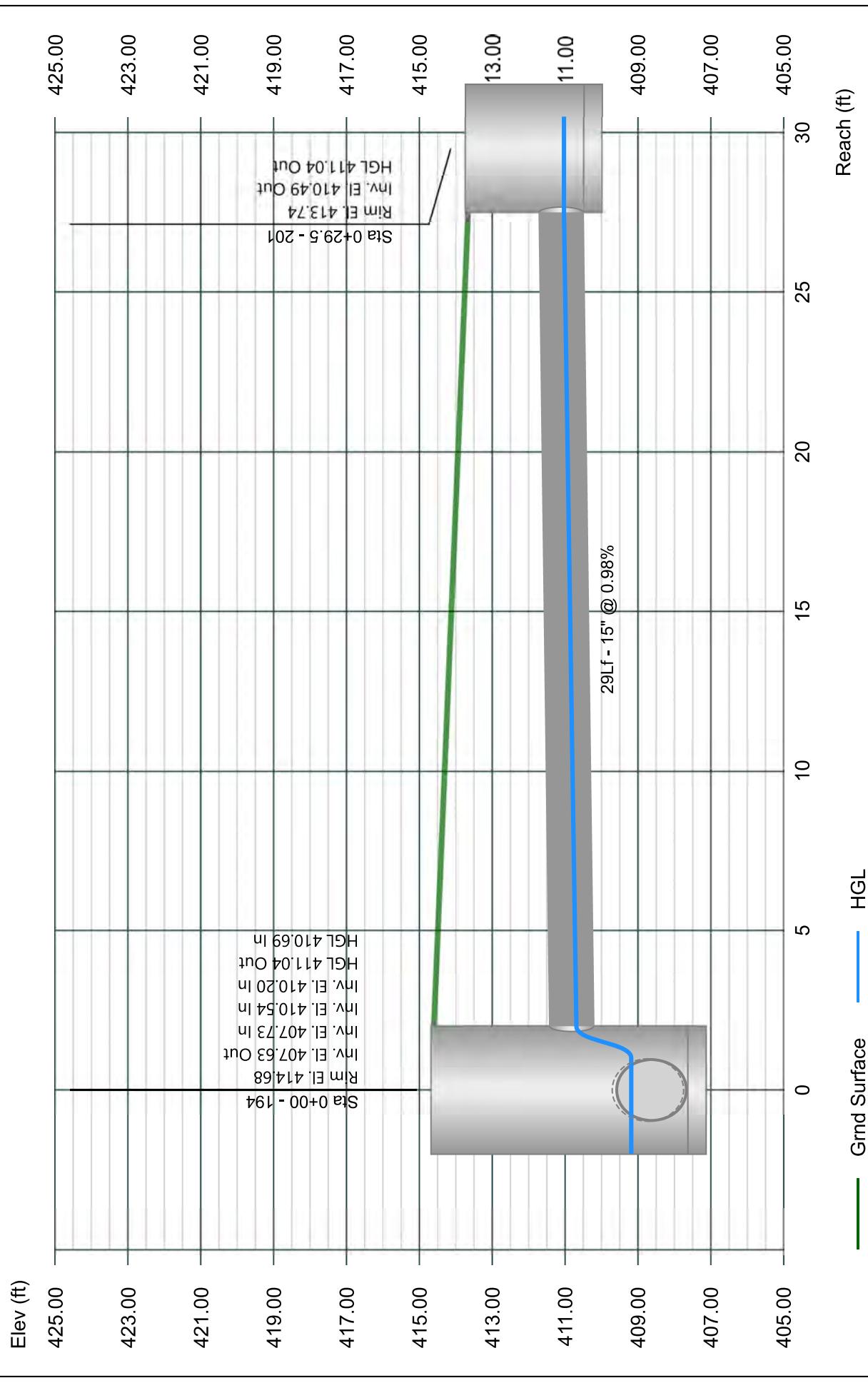


Line 101 - 201 TO 194

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

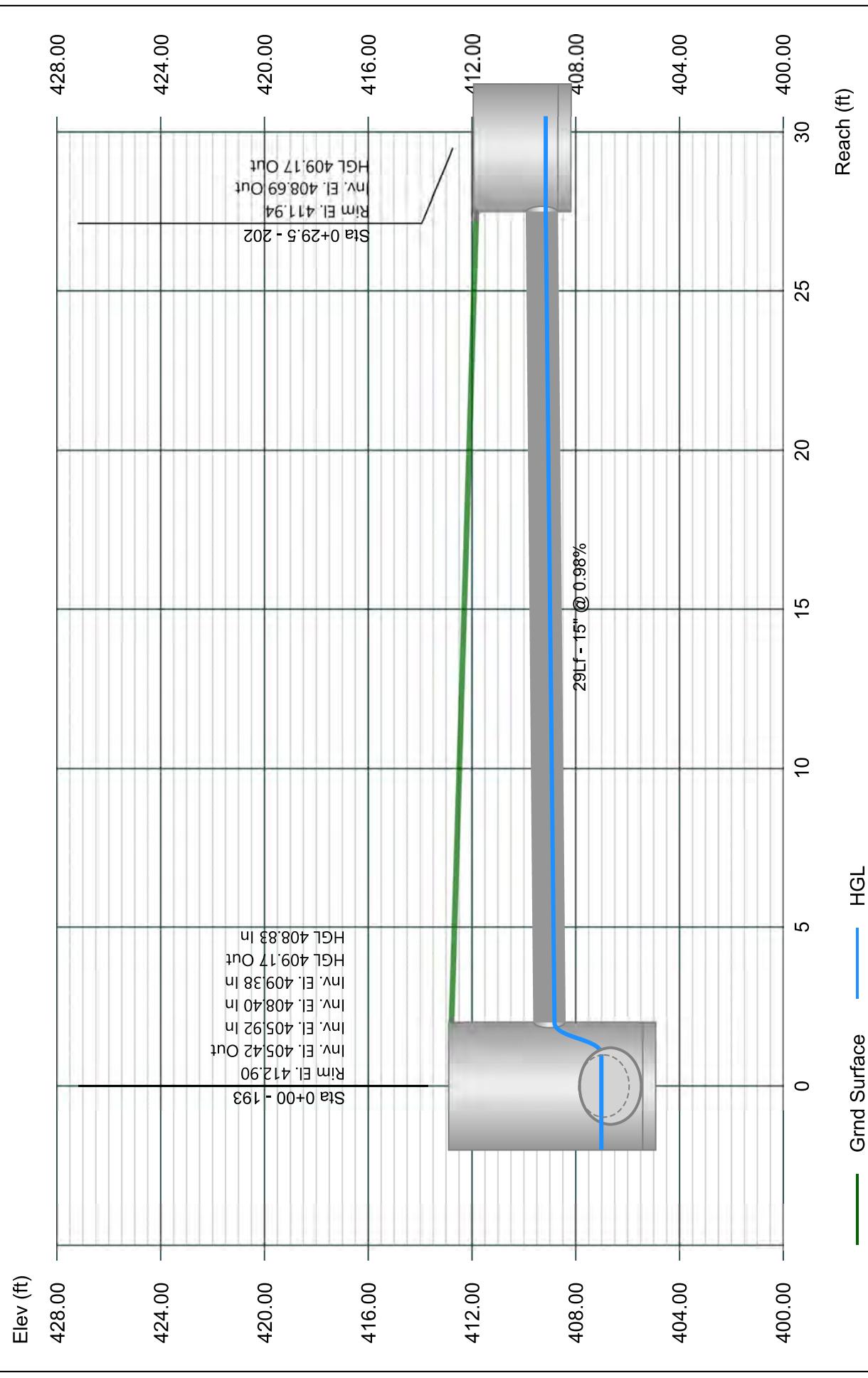


Line 102 - 202 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

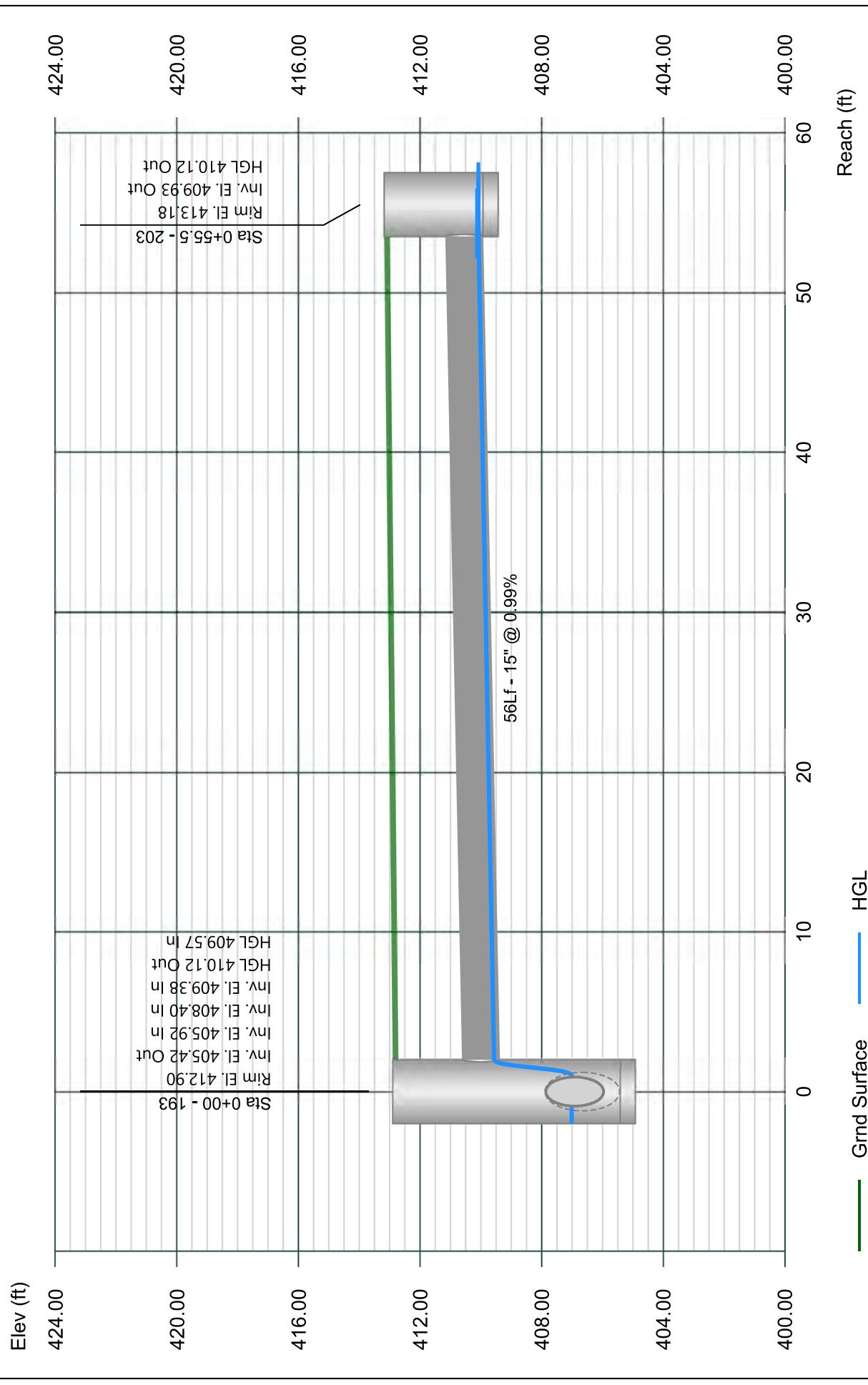


Line 103 - 203 TO 193

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

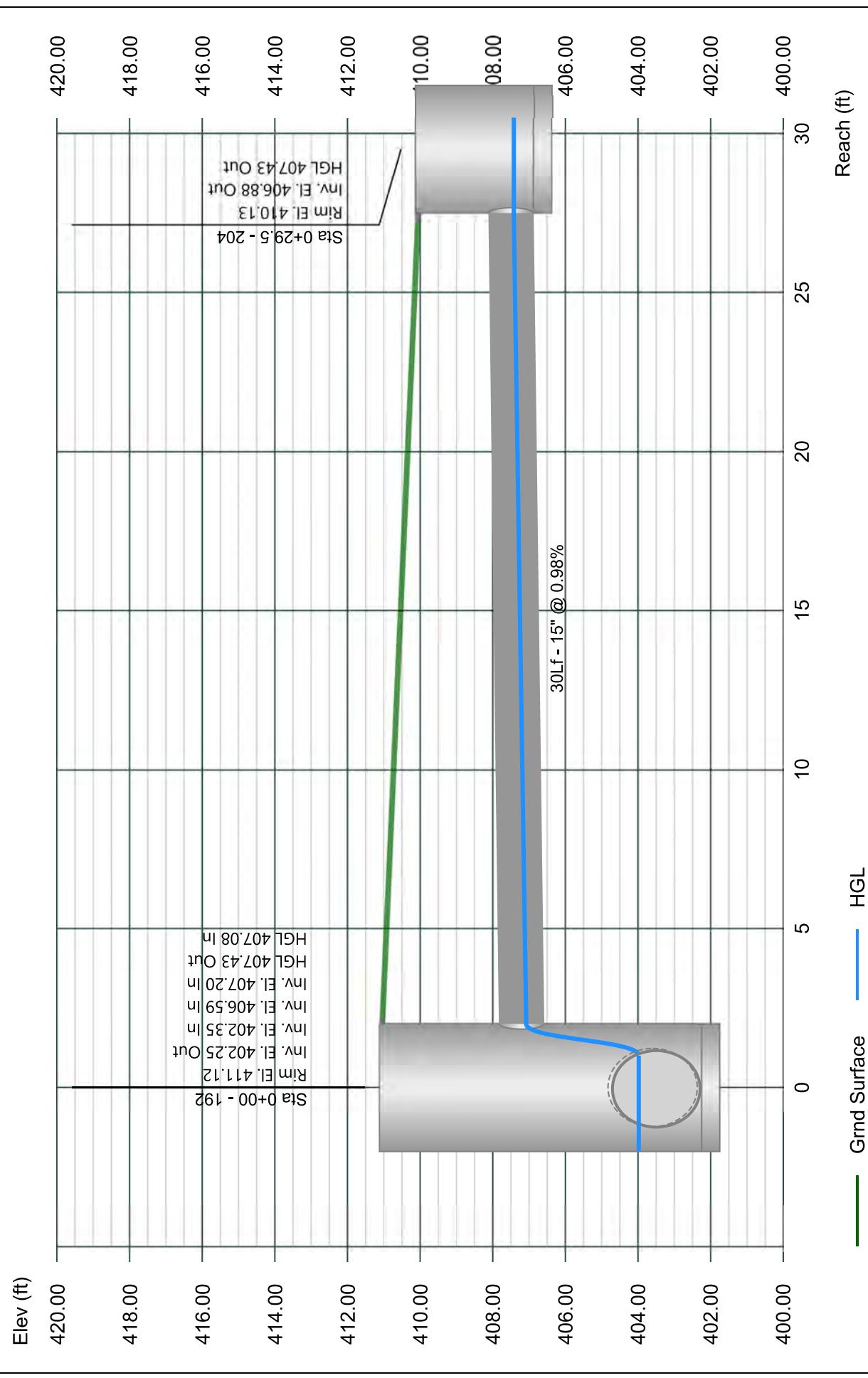


Line 104 - 204 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

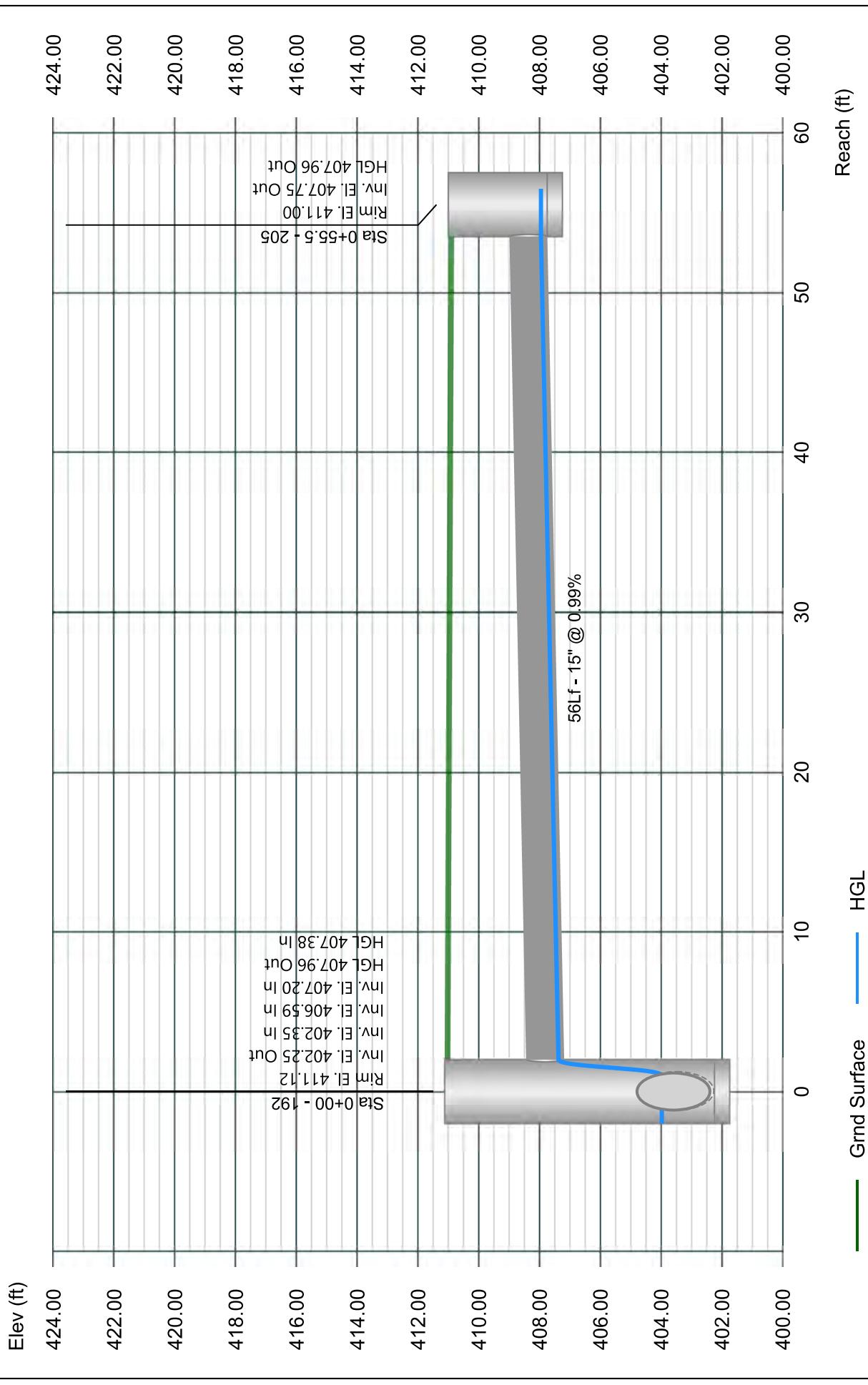


Line 105 - 205 TO 192

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

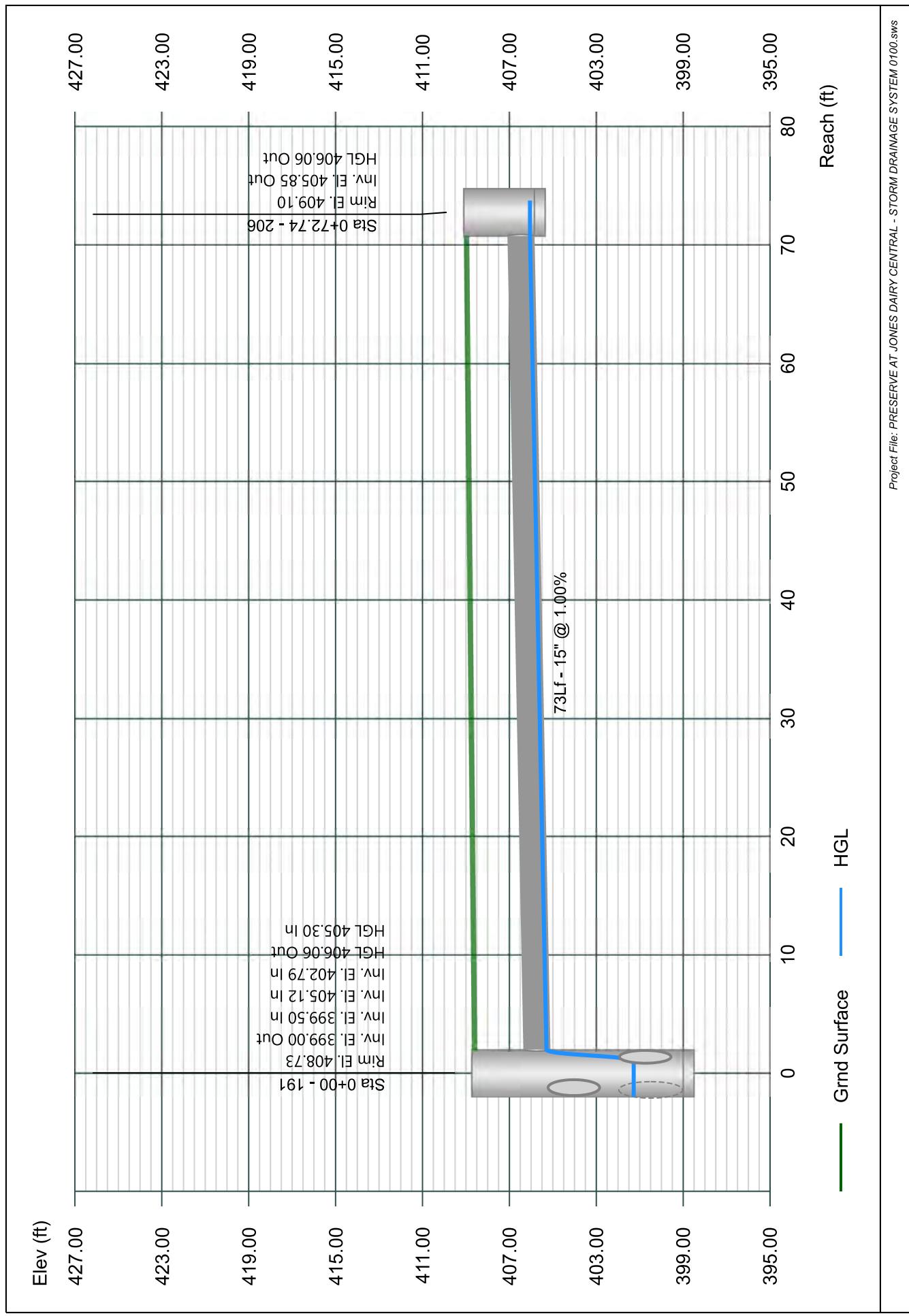


Line 106 - 206 TO 191

Stormwater Studio 2024 v 3,0,0,33

Project Name: Enter Project Name...

01-19-2024

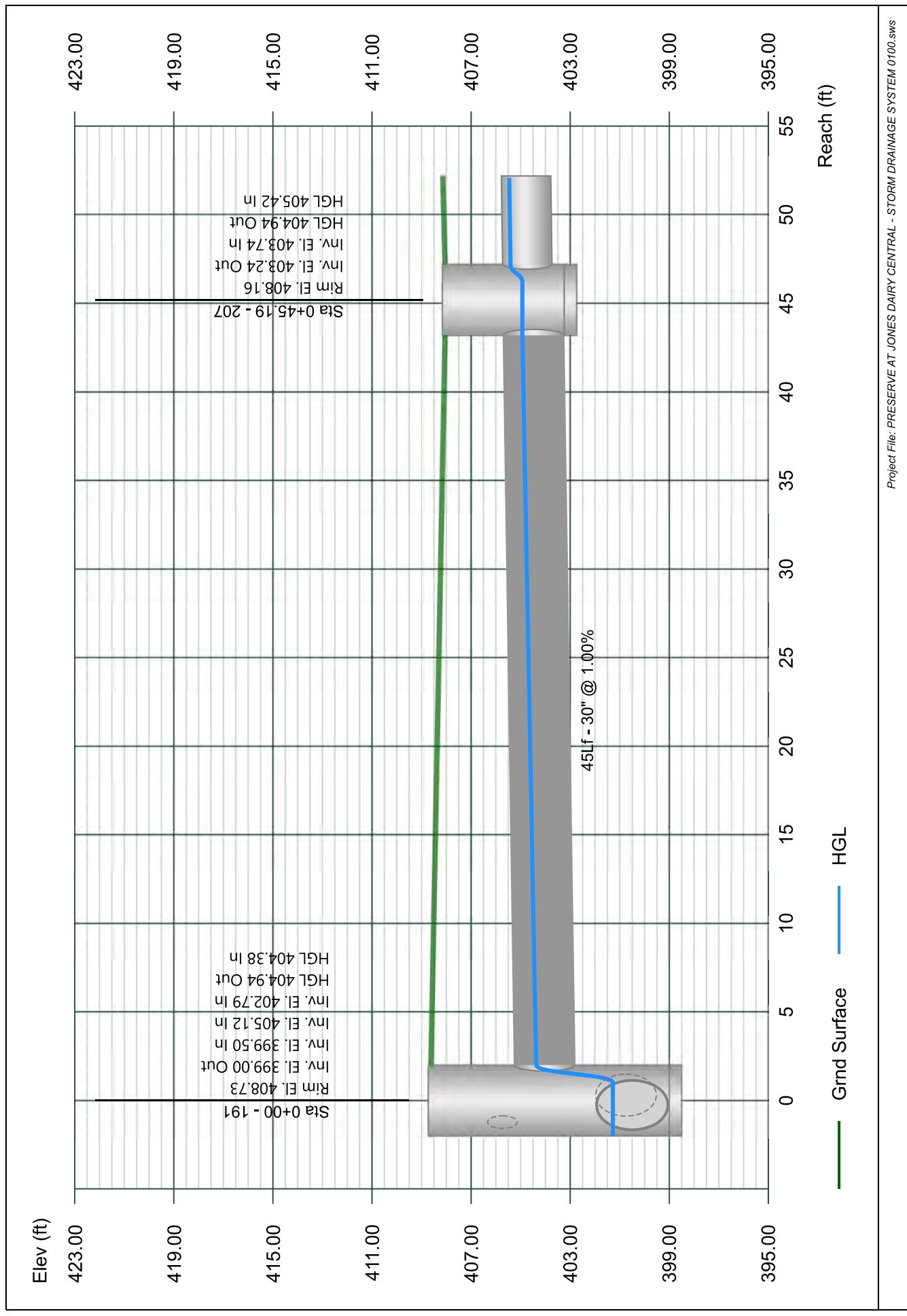


Line 107 - 207 TO 191

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

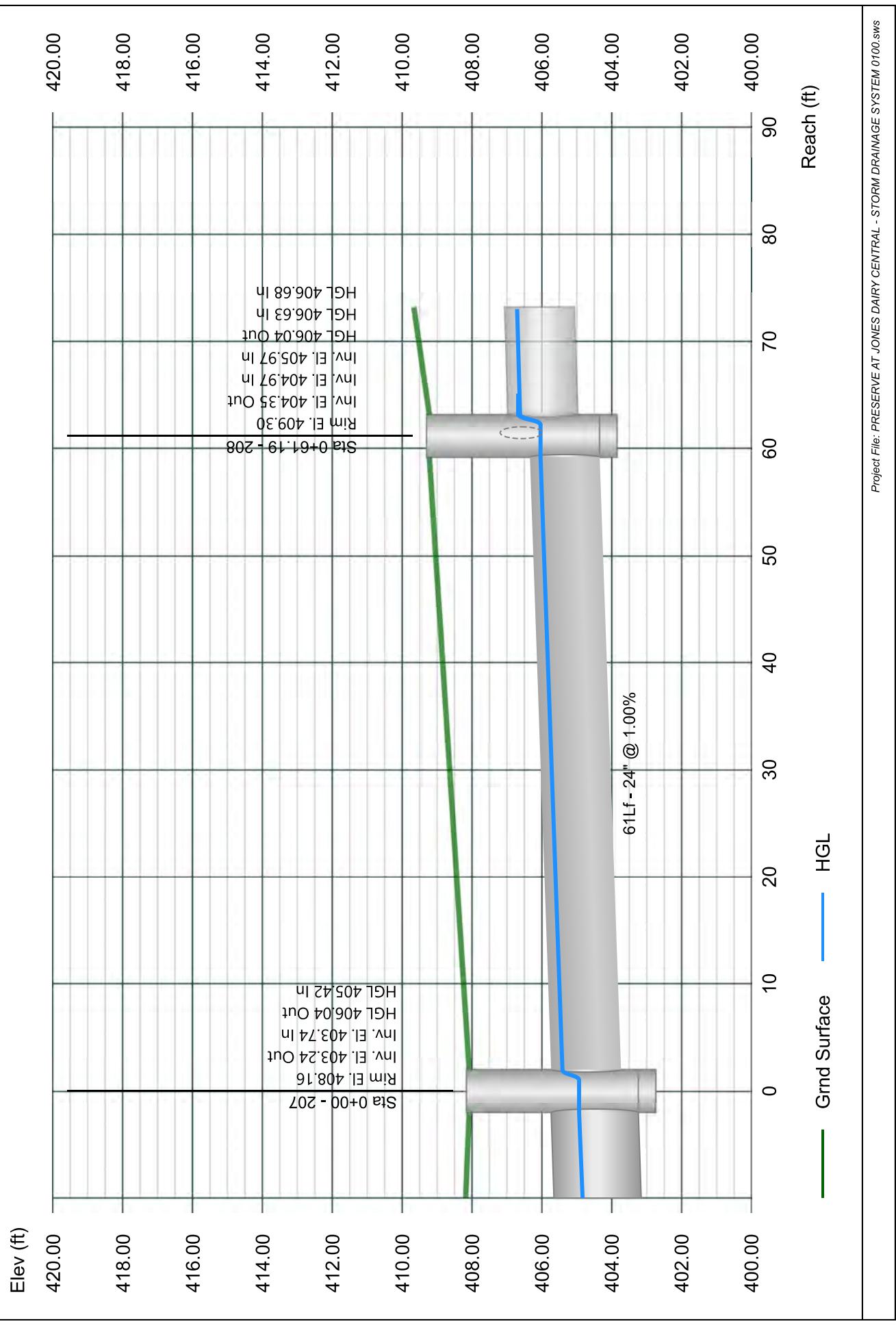


Line 108 - 208 TO 207

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

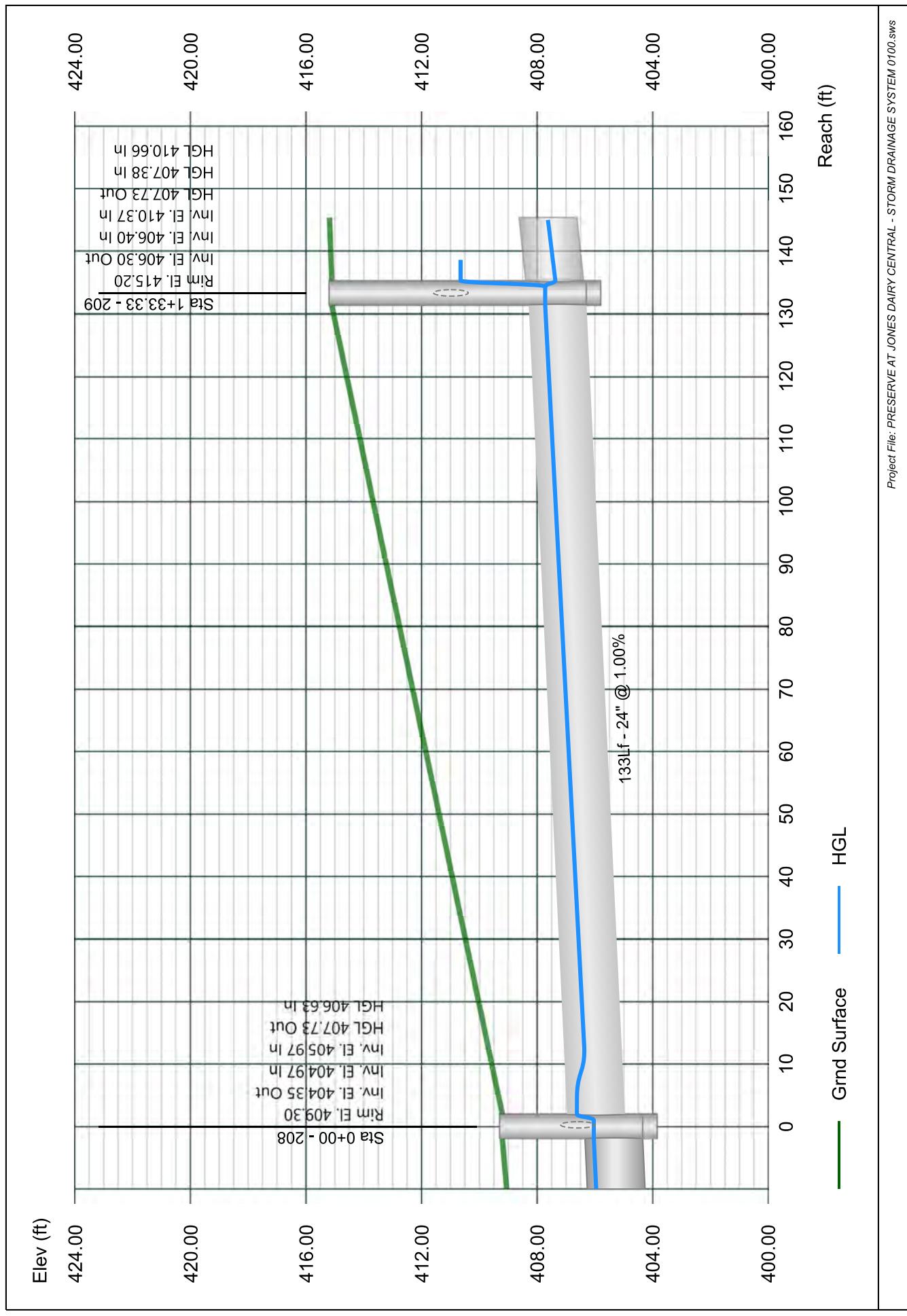


Line 109 - 209 TO 208

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

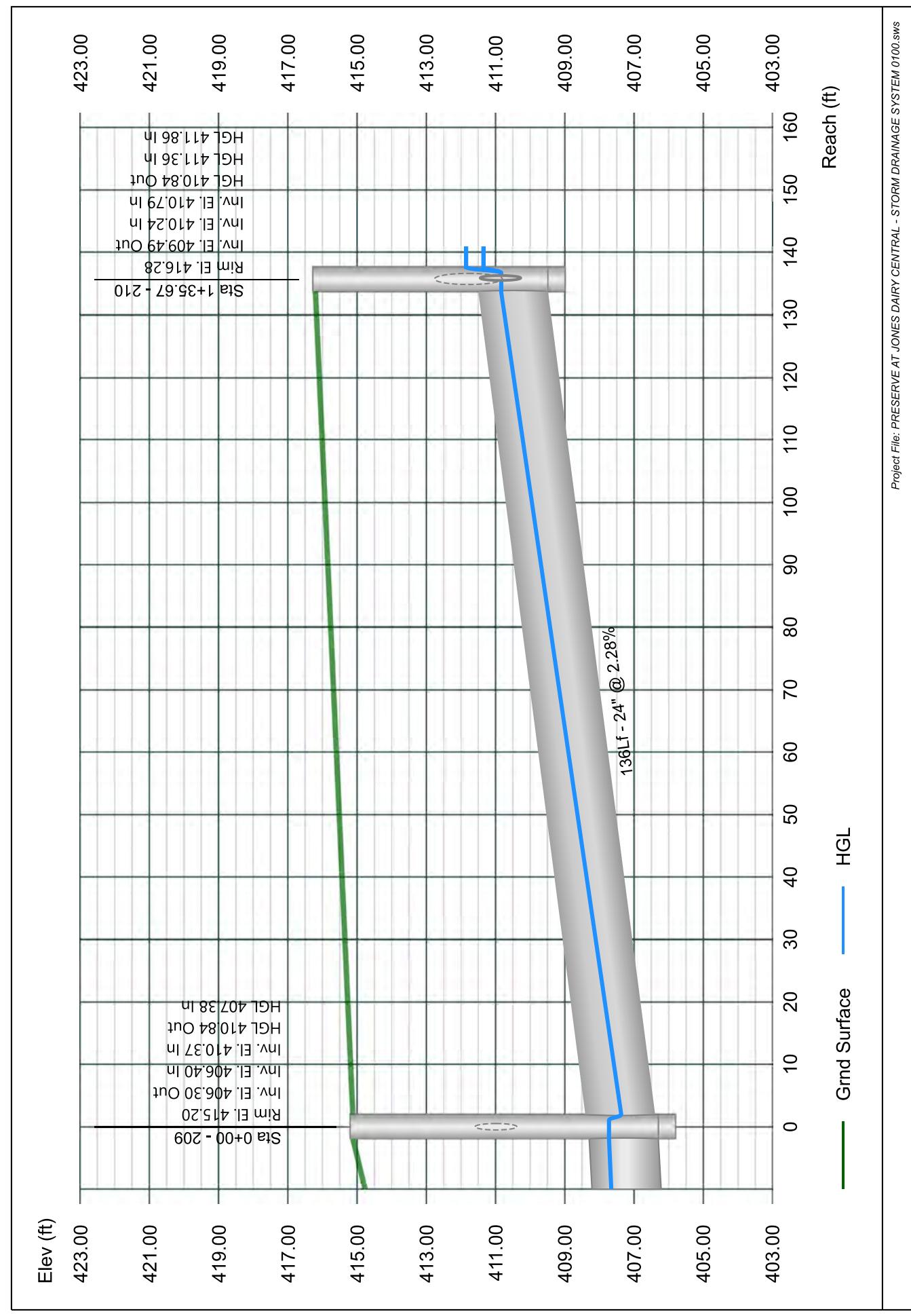


Line 110 - 210 TO 209

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

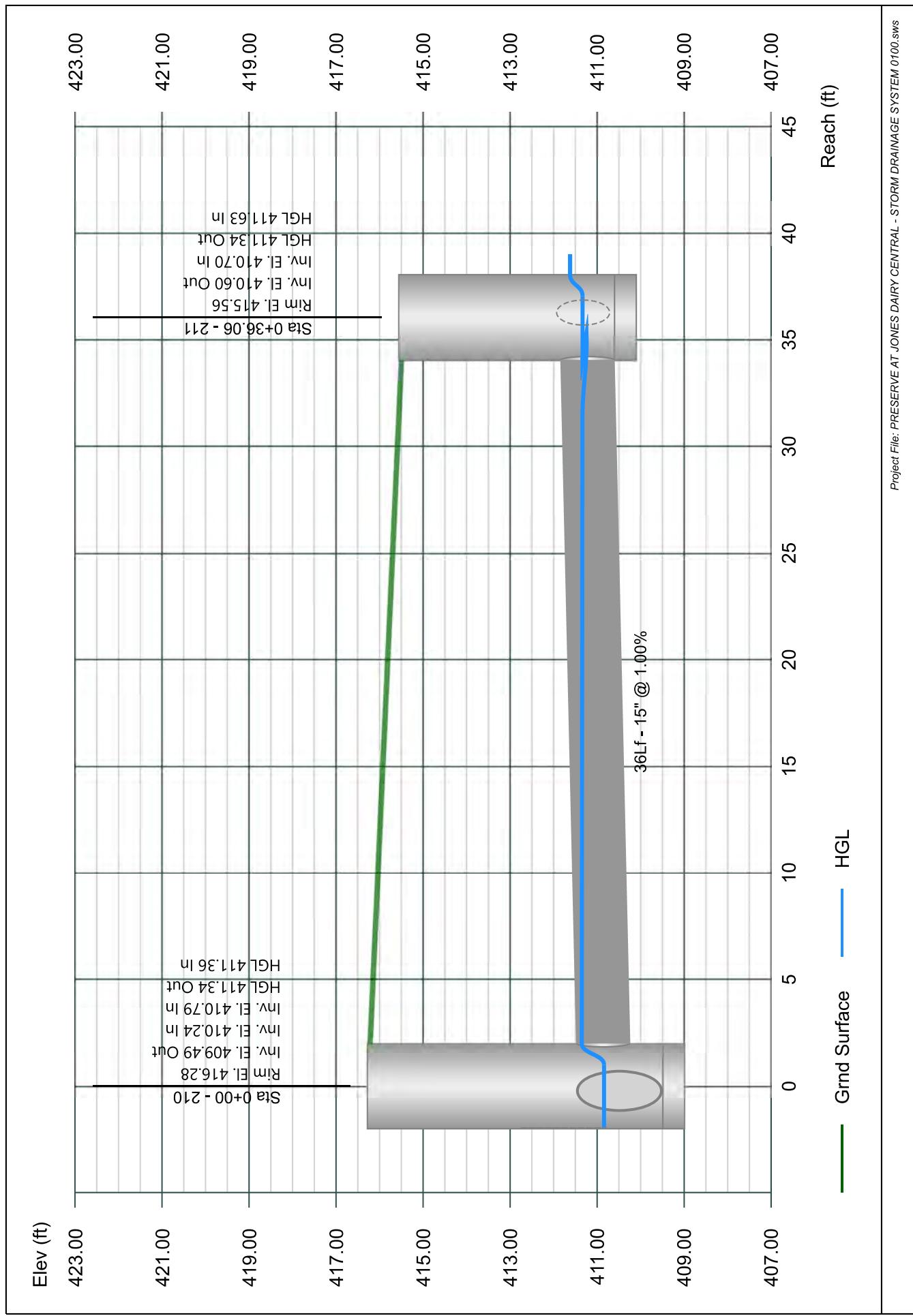


Line 111 - 211 TO 210

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

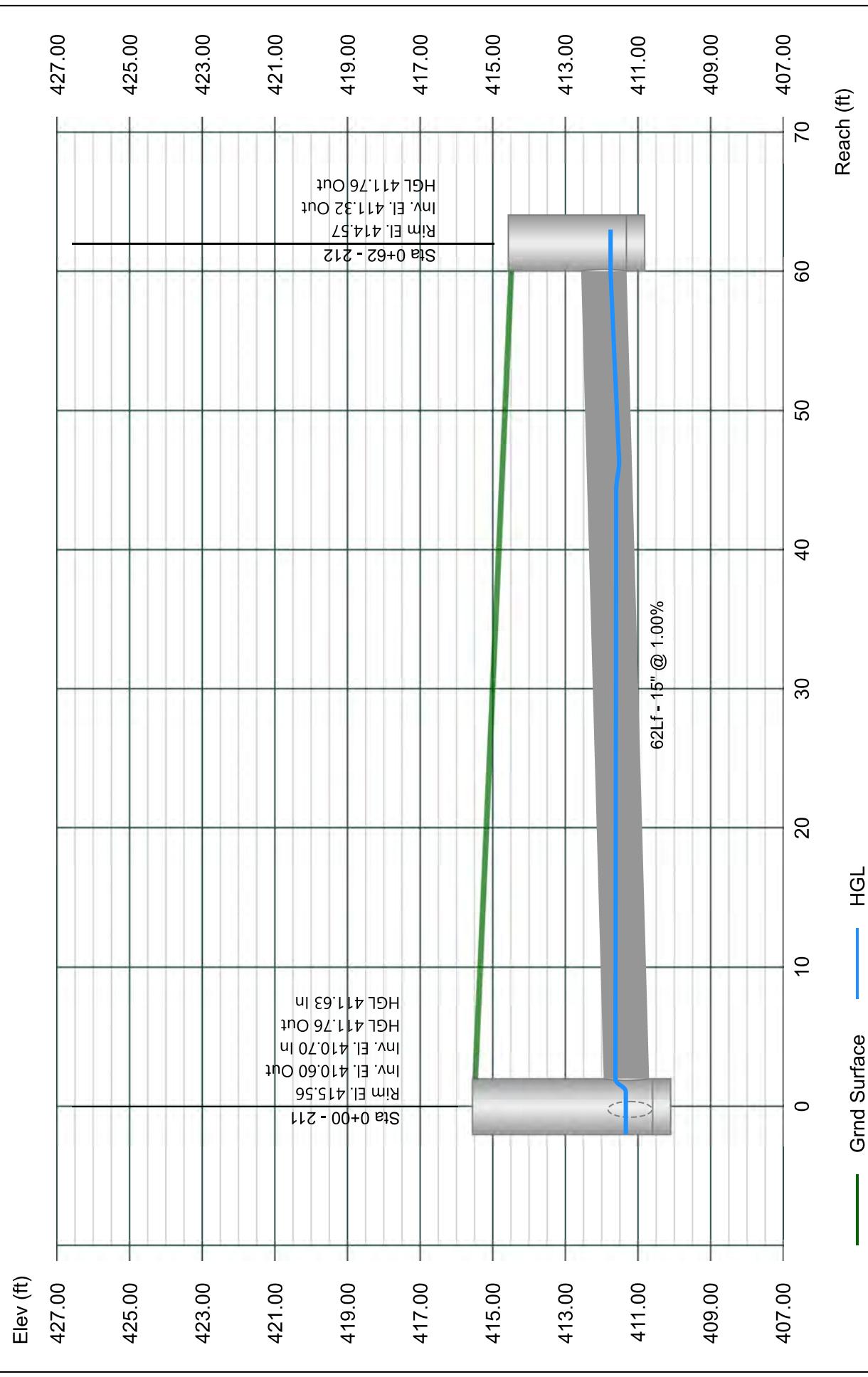


Line 112 - 212 TO 211

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

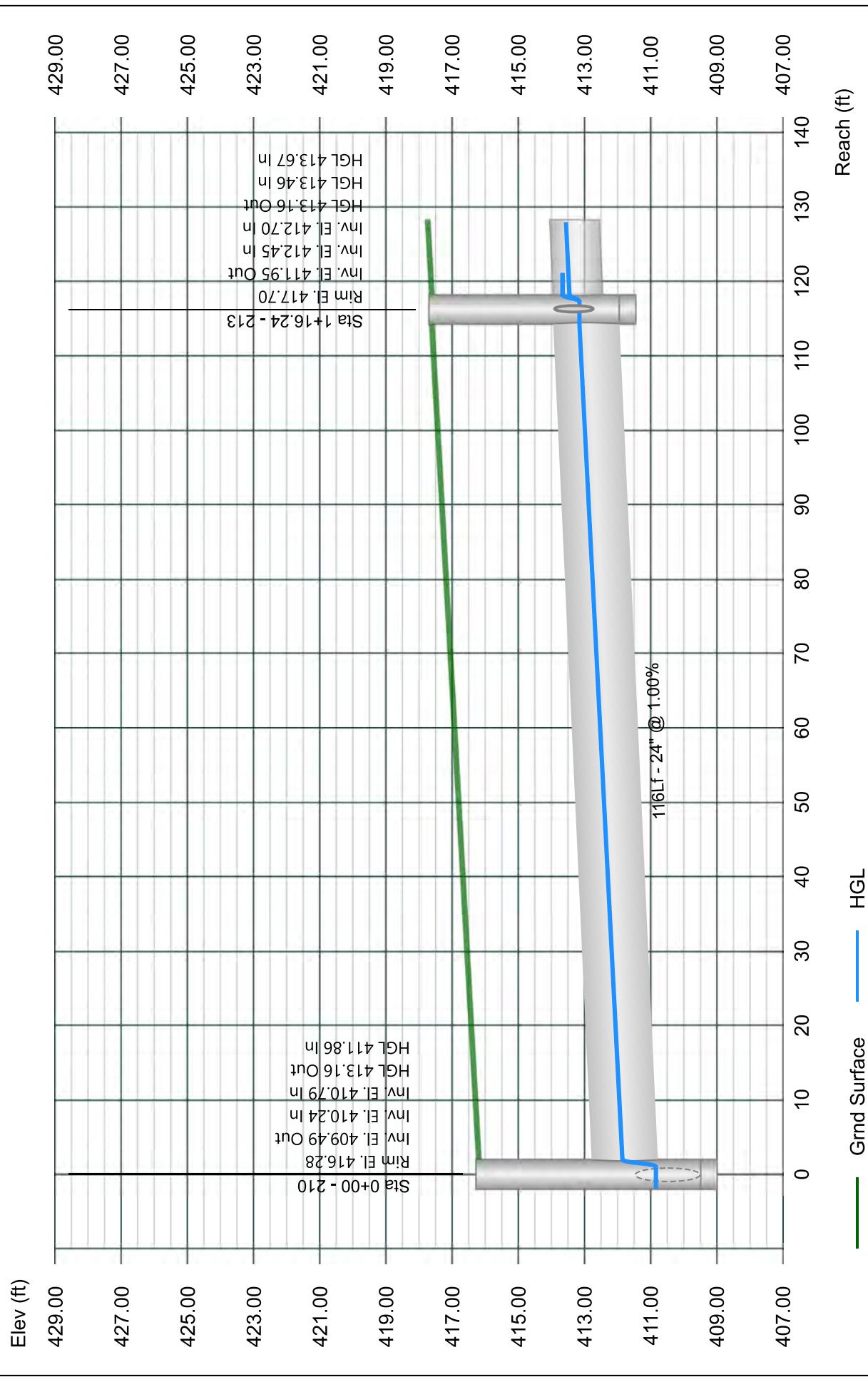


Line 113 - 213 TO 210

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

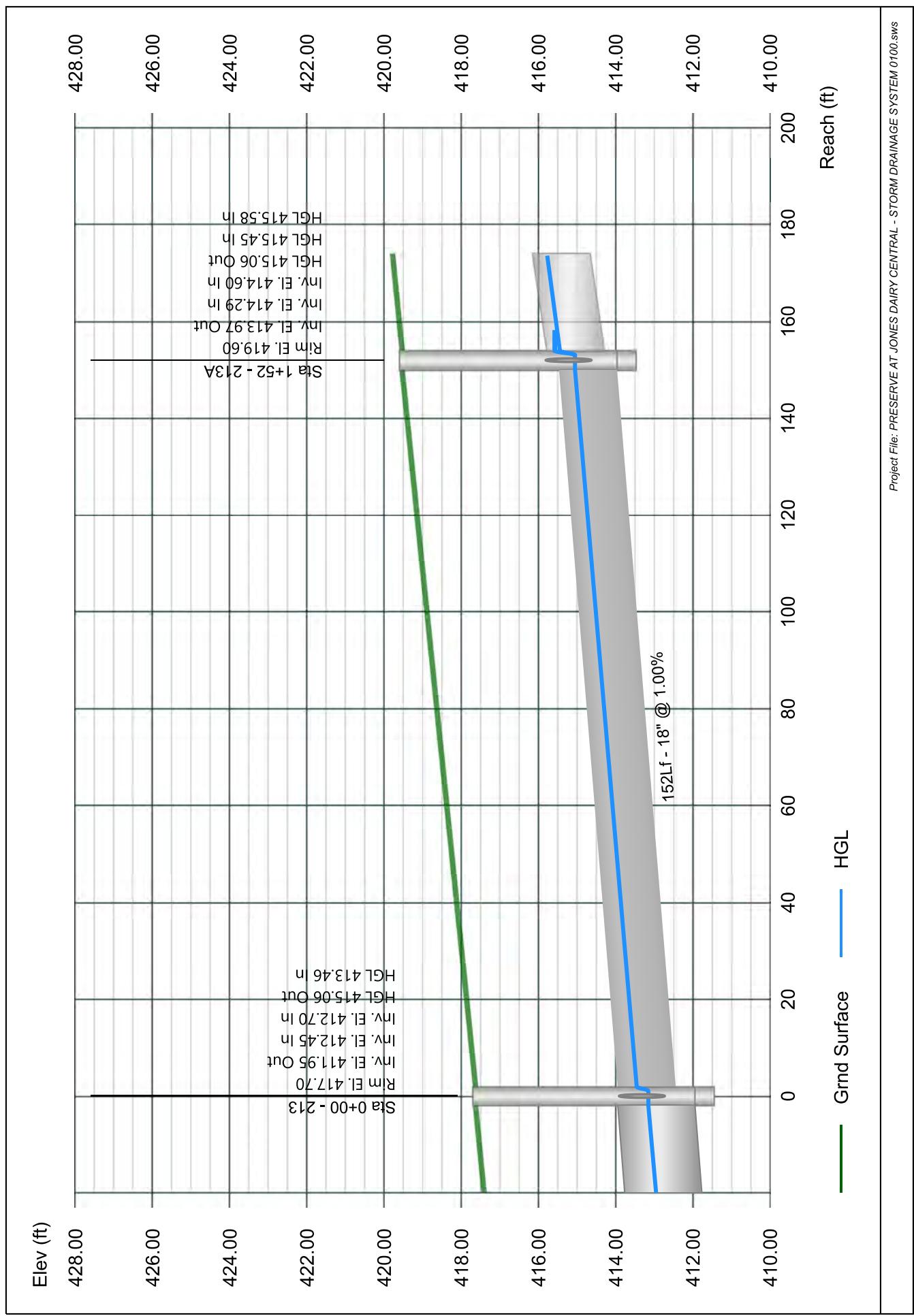


Line 114 - 213A TO 213

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

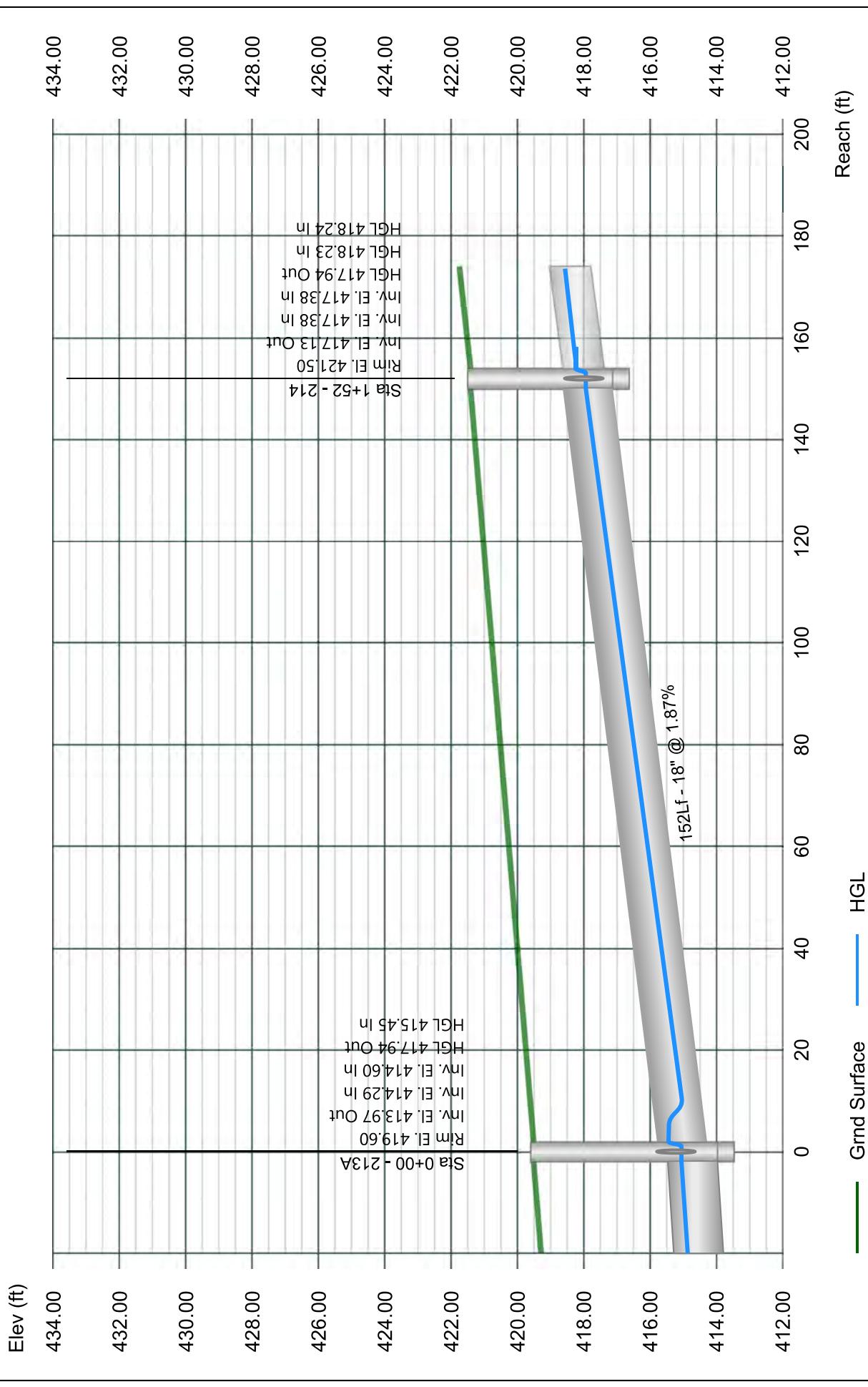


Line 115 - 214 TO 213A

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

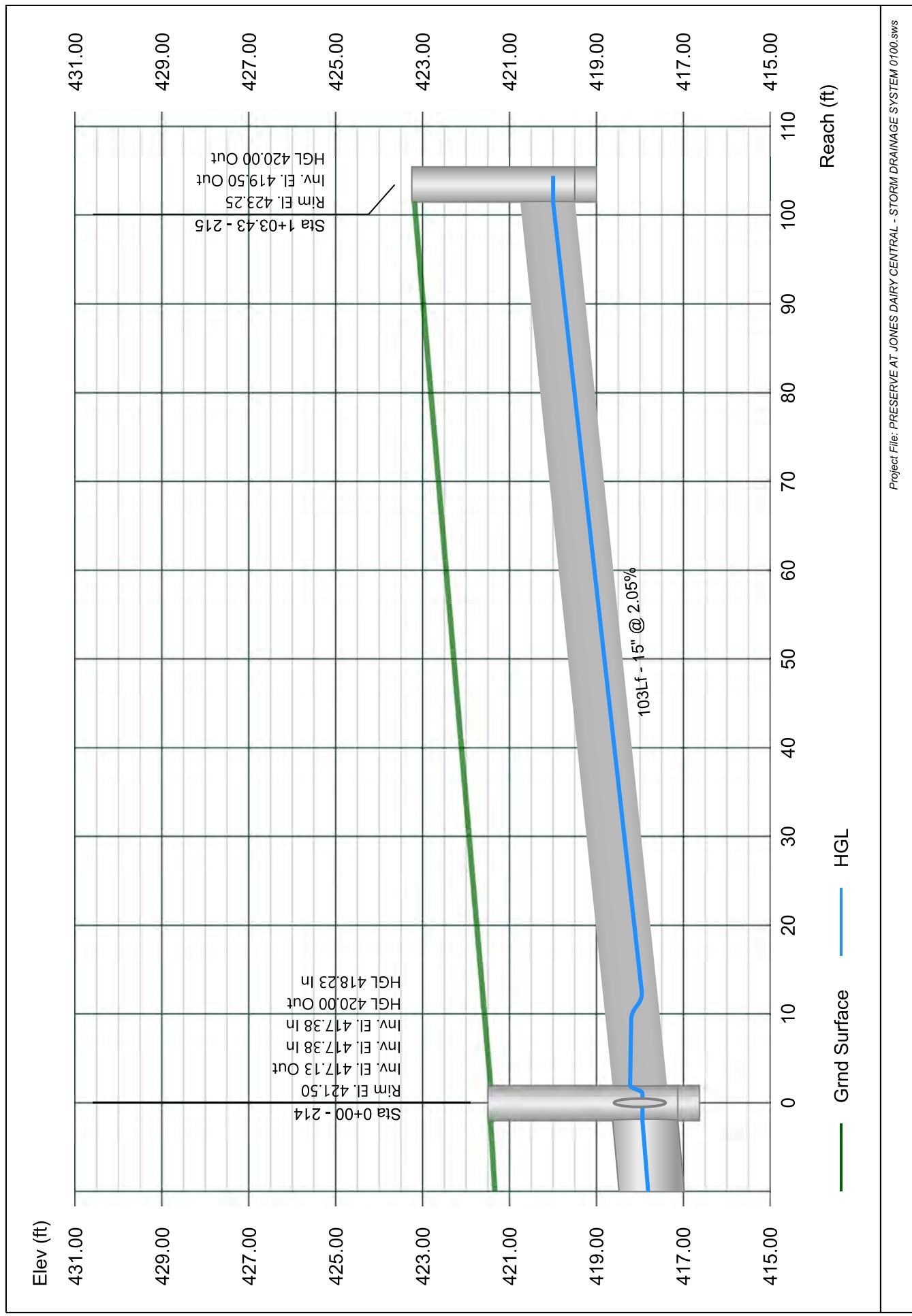


Line 116 - 215 TO 214

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

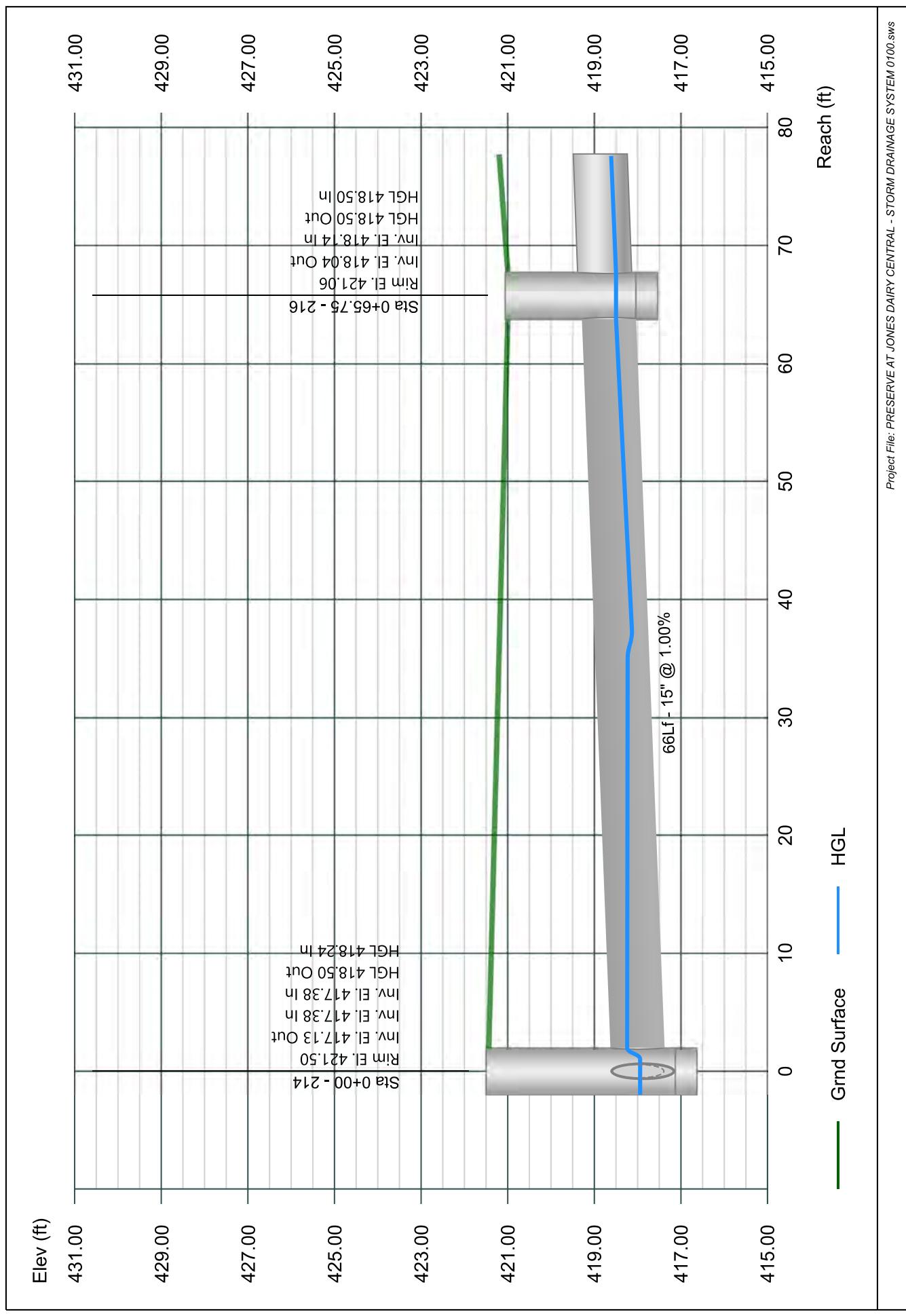


Line 117 - 216 TO 214

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

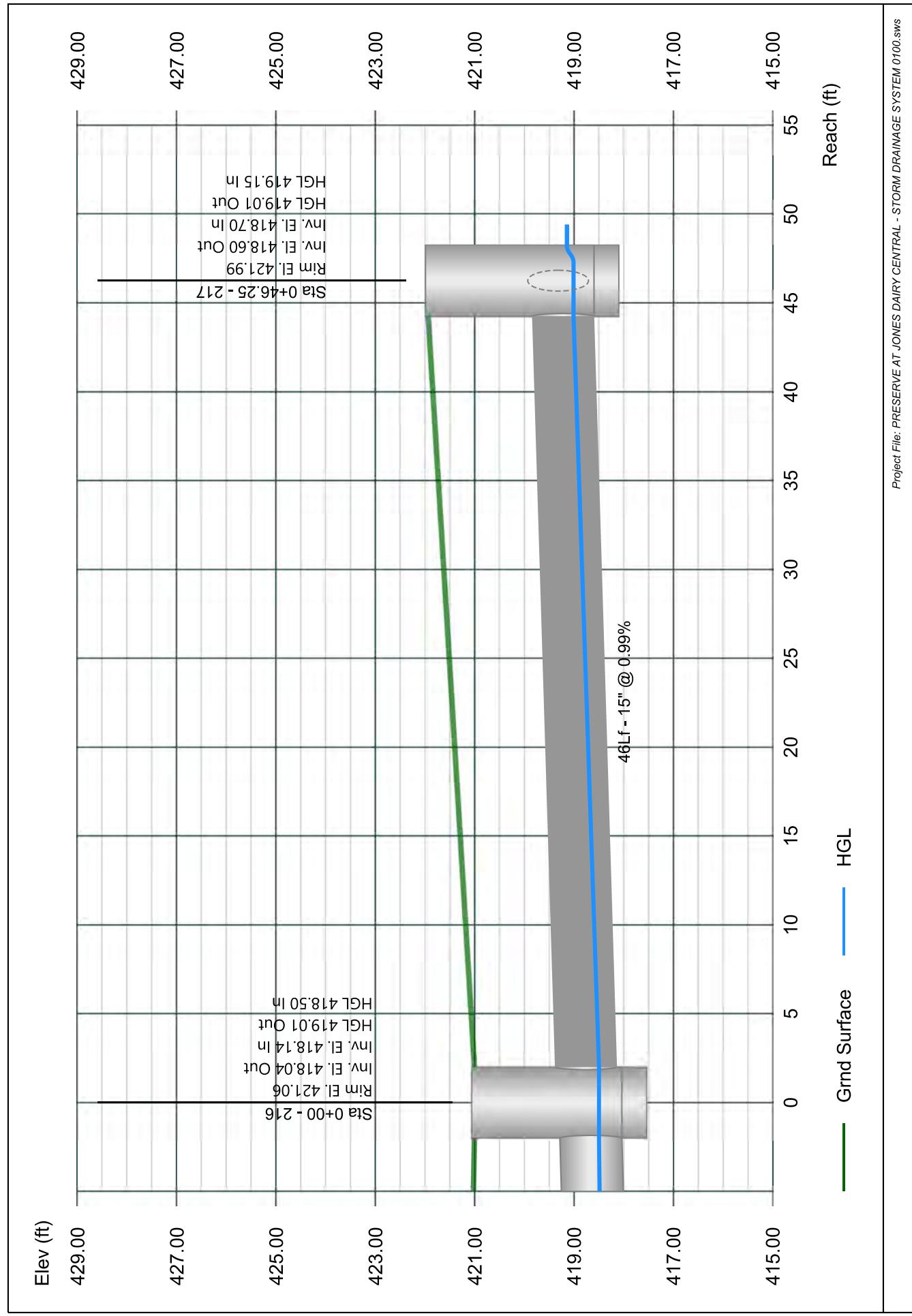
01-19-2024



Line 118 - 217 TO 216

Project Name: Enter Project Name...

01-19-2024

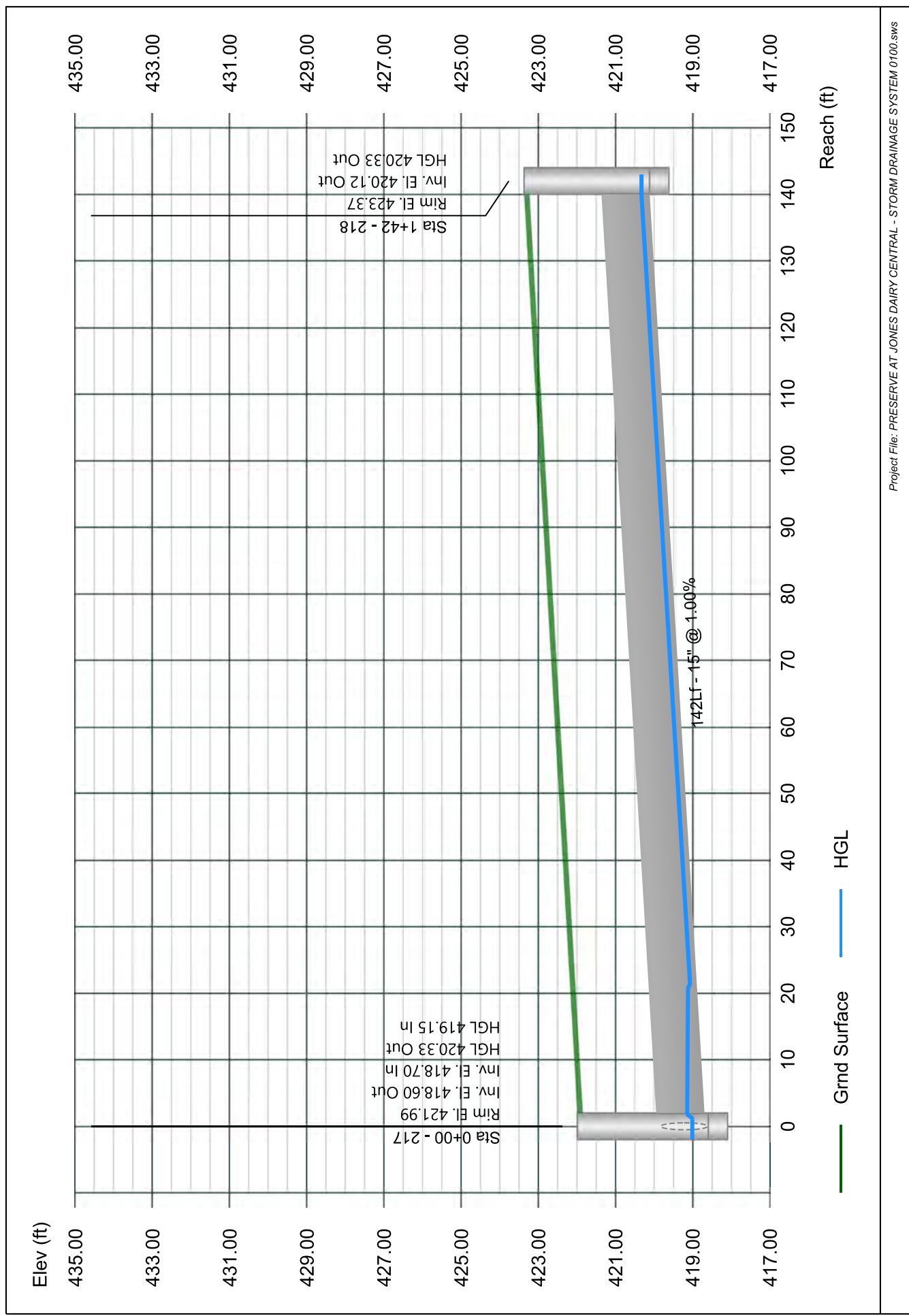


Line 119 - 218 TO 217

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

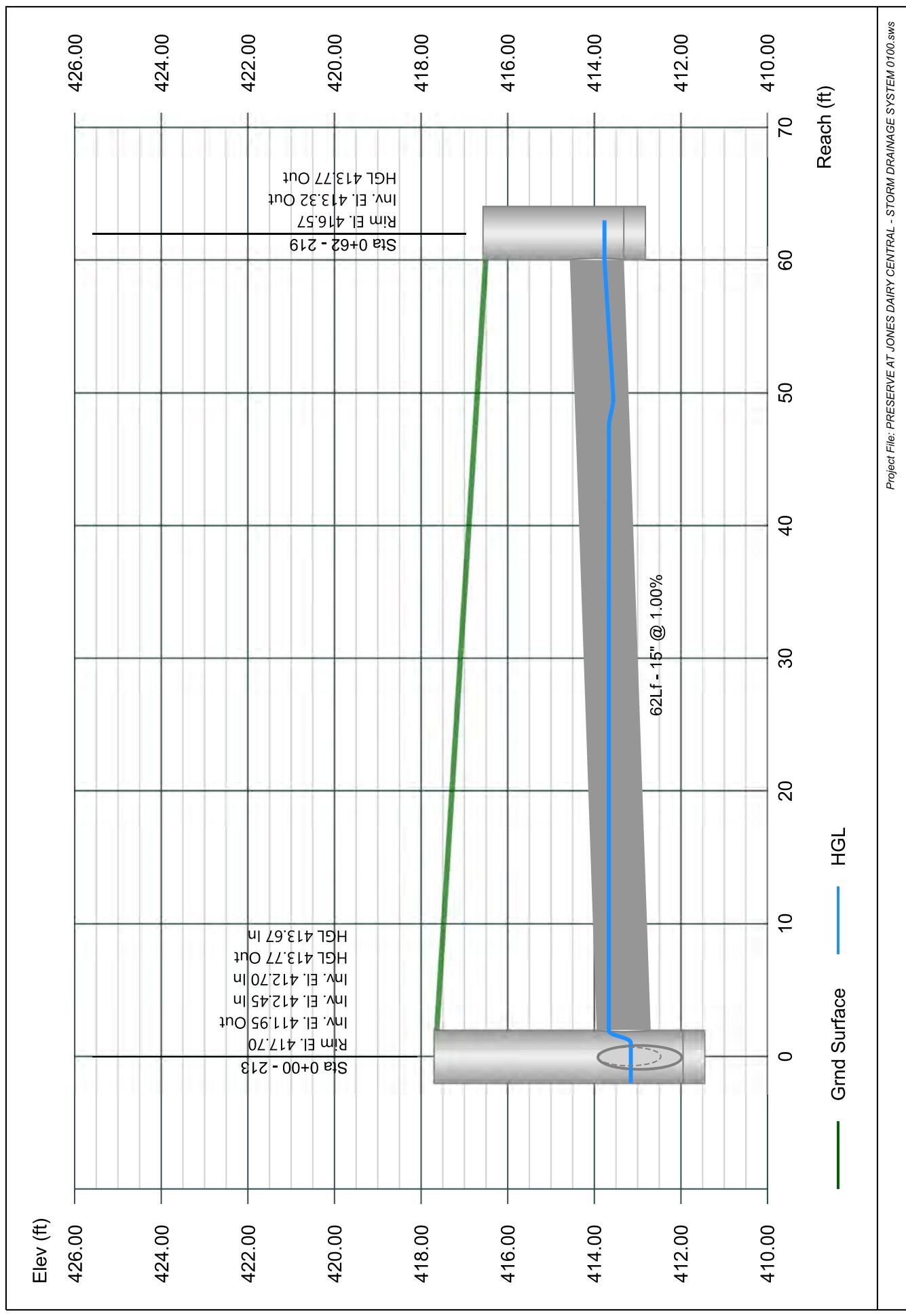


Line 120 - 219 TO 213

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

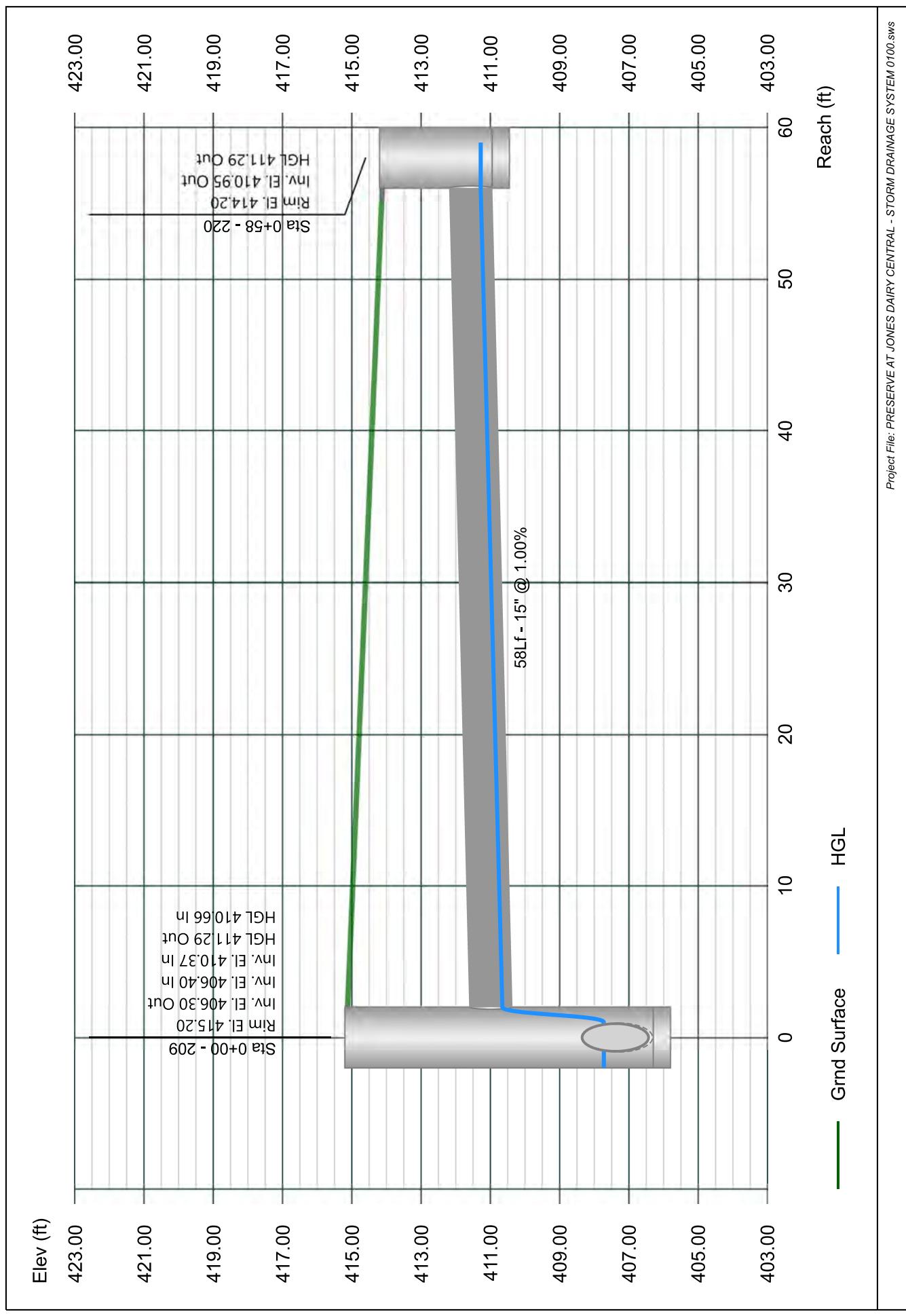


Line 121 - 220 TO 209

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

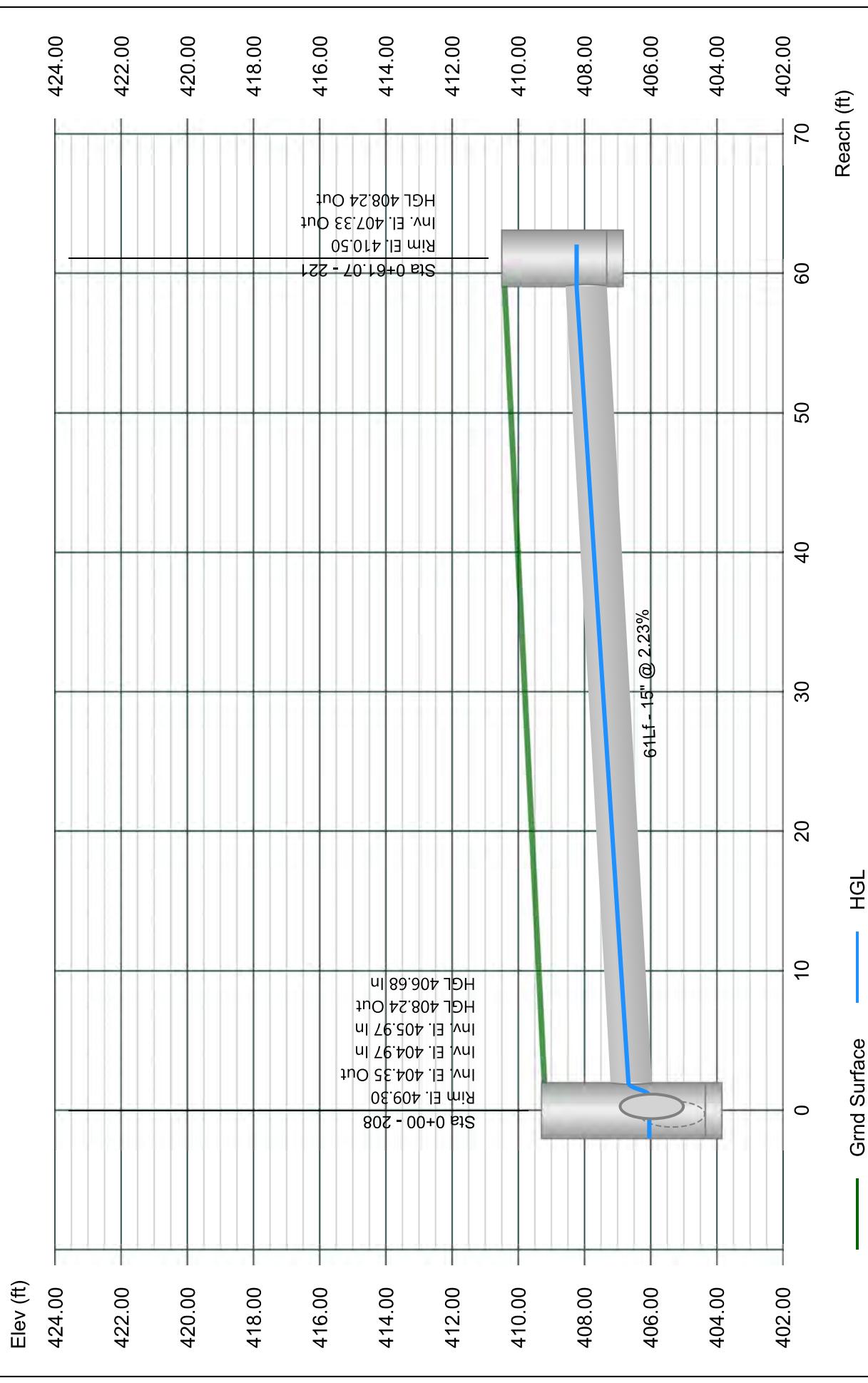


Line 122 - 221 TO 208

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

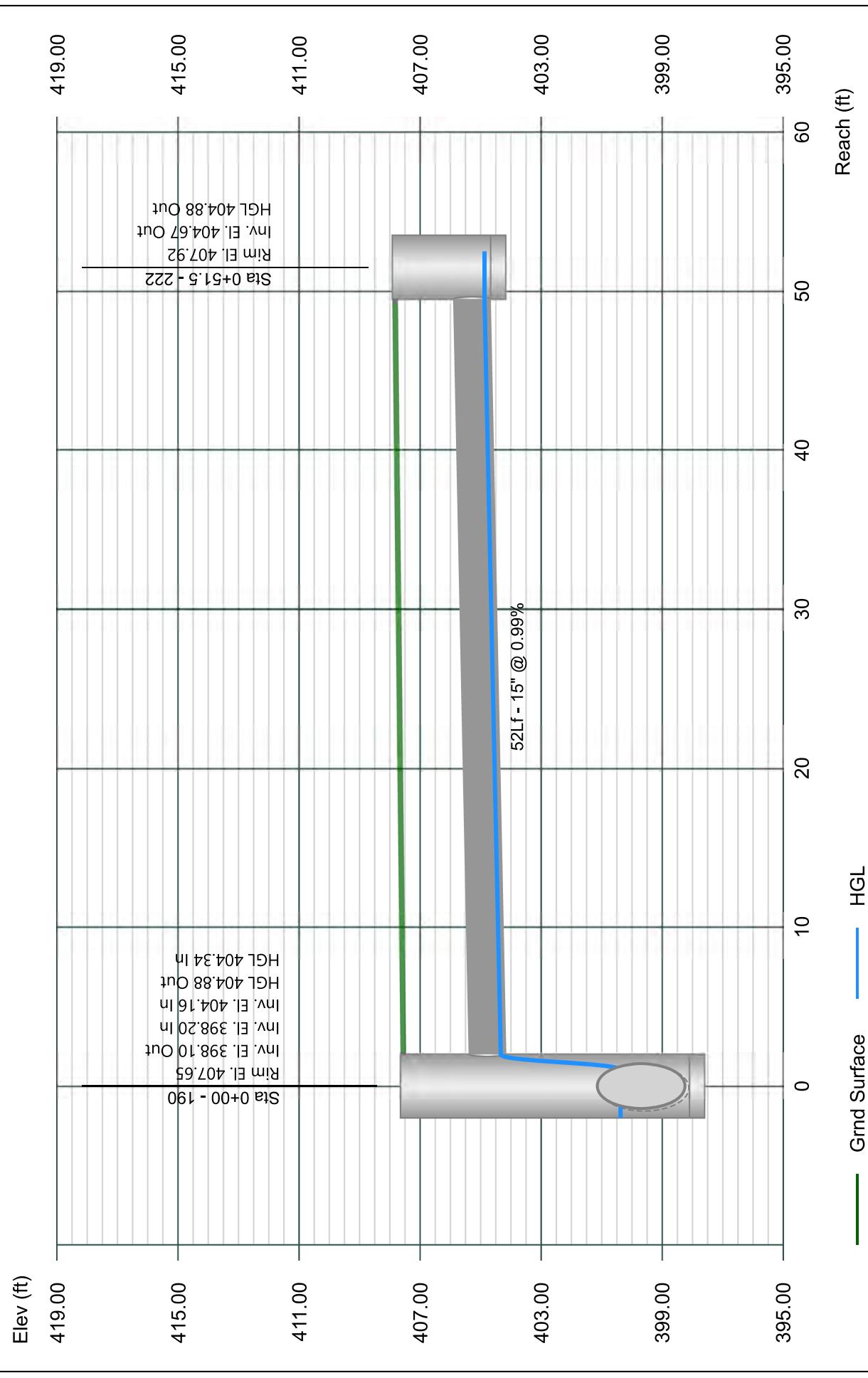


Line 123 - 222 TO 190

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

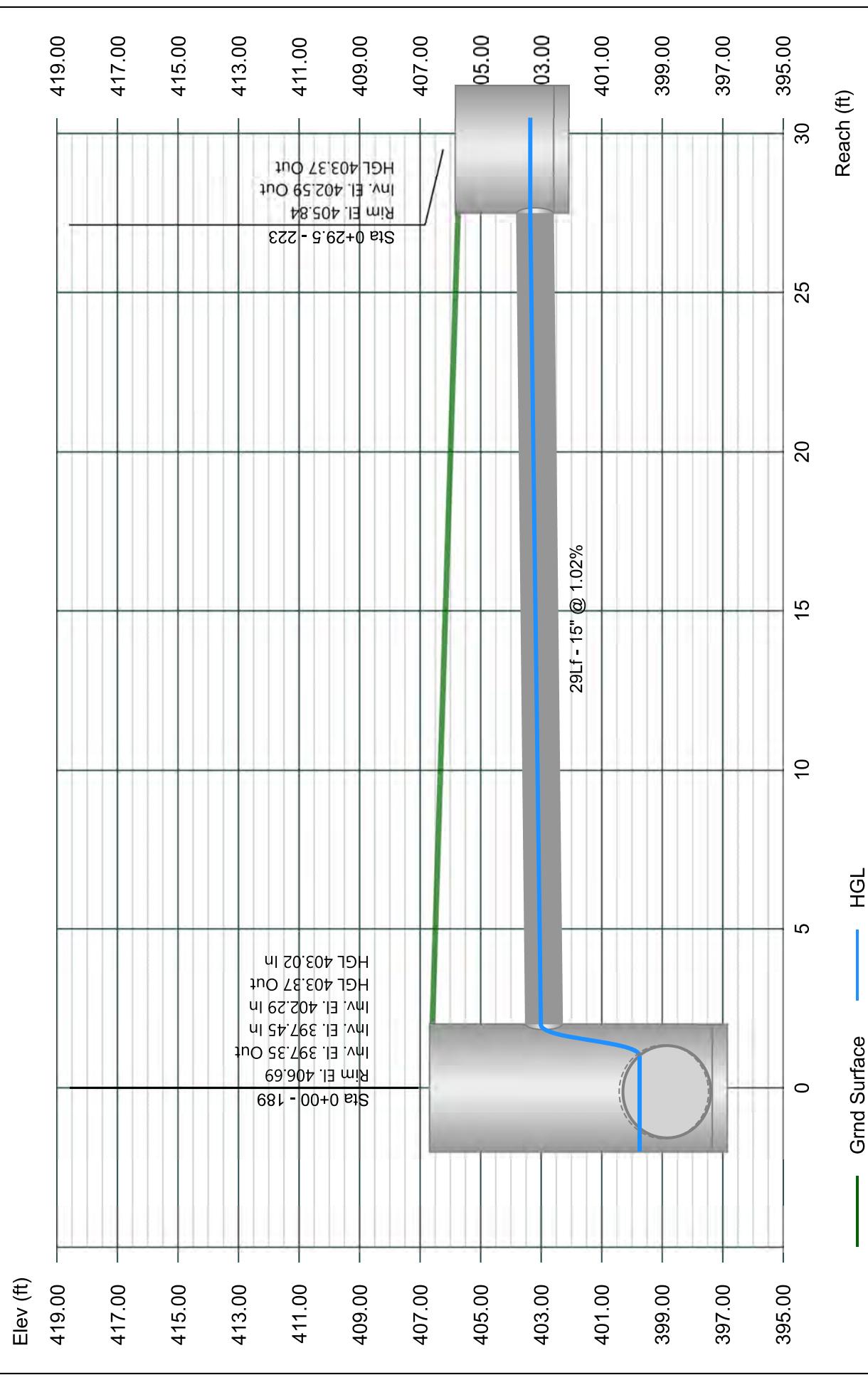


Line 124 - 223 TO 189

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

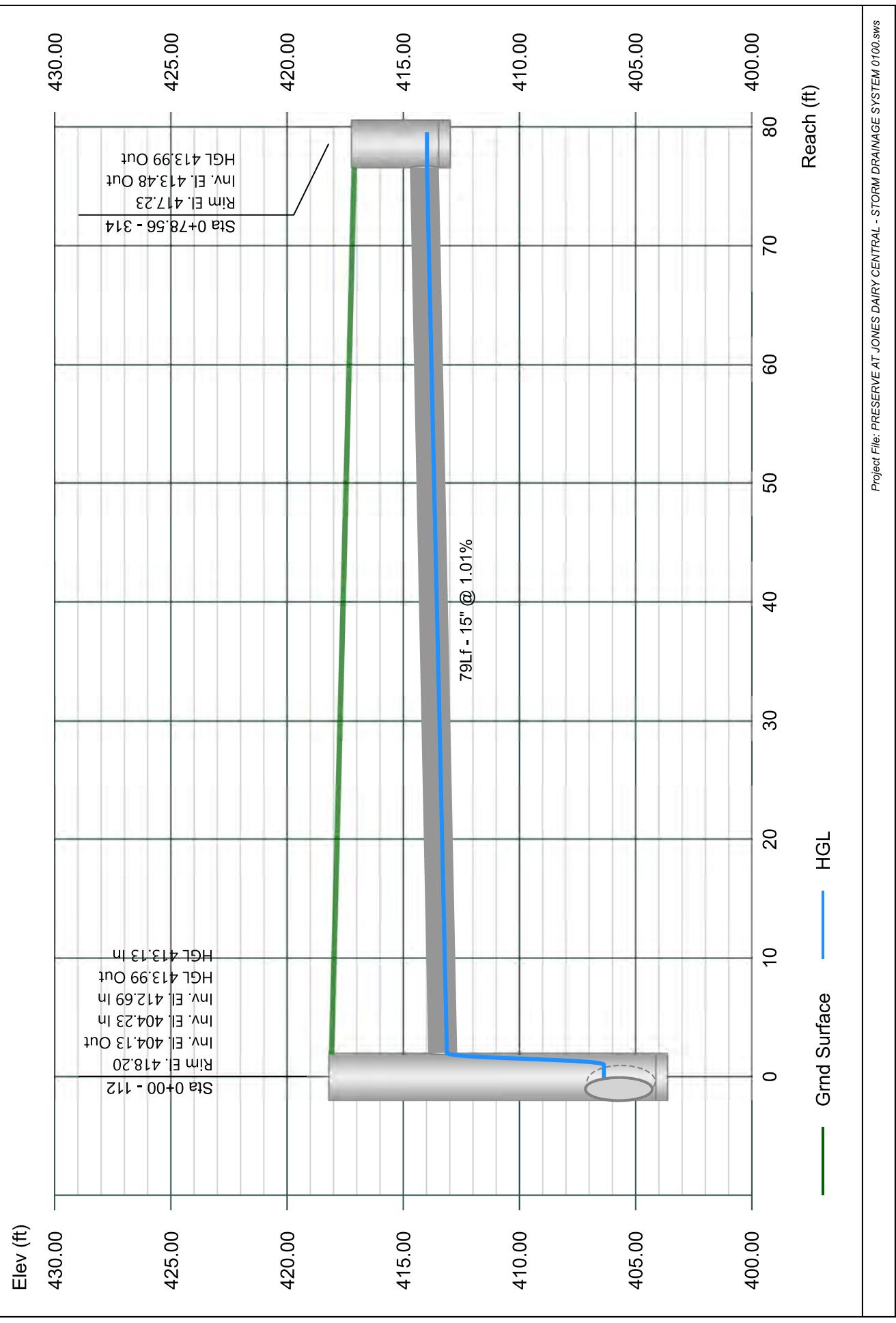


Line 125 - 314 TO 112

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

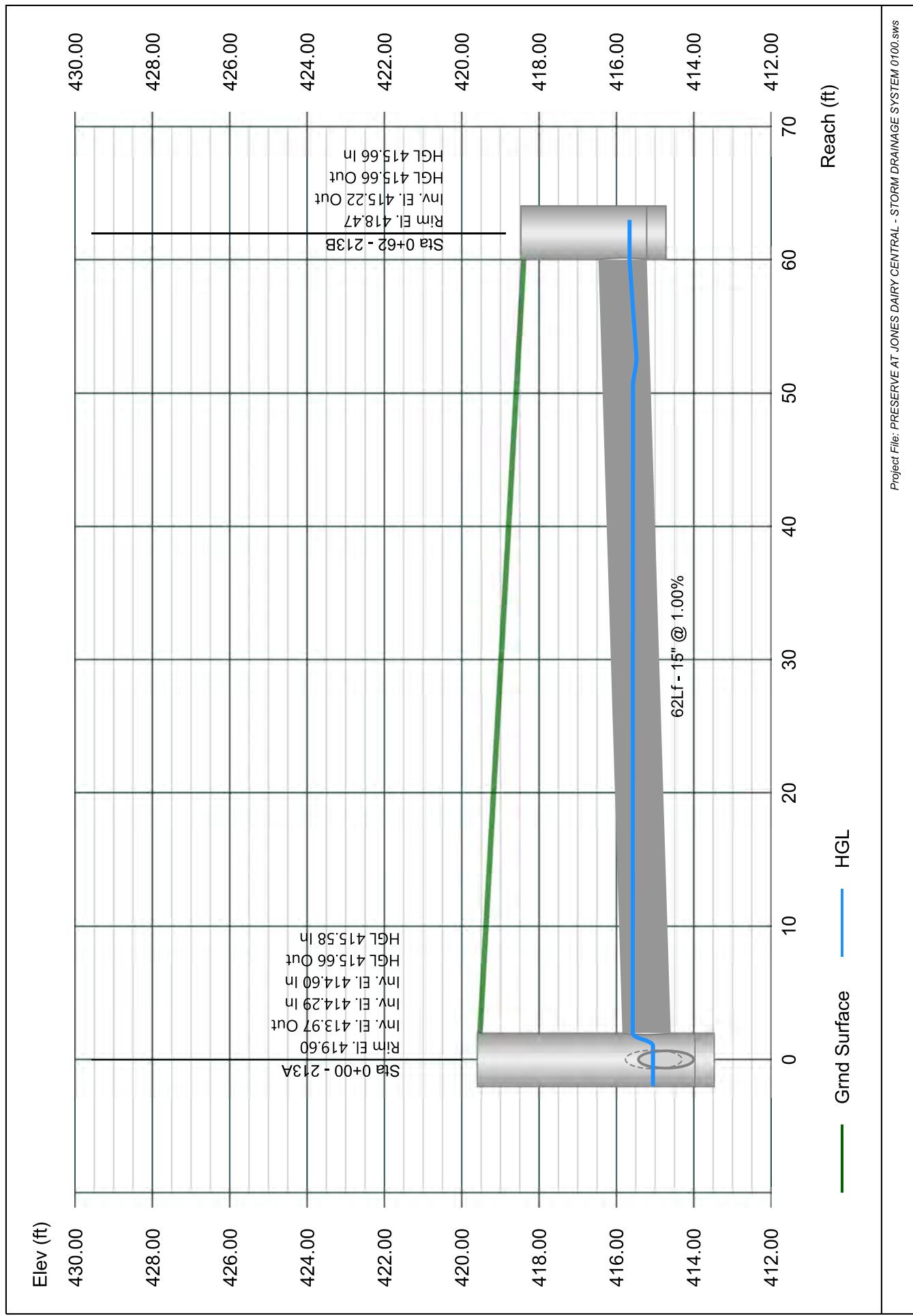


Line 126 - 213B TO 213A

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

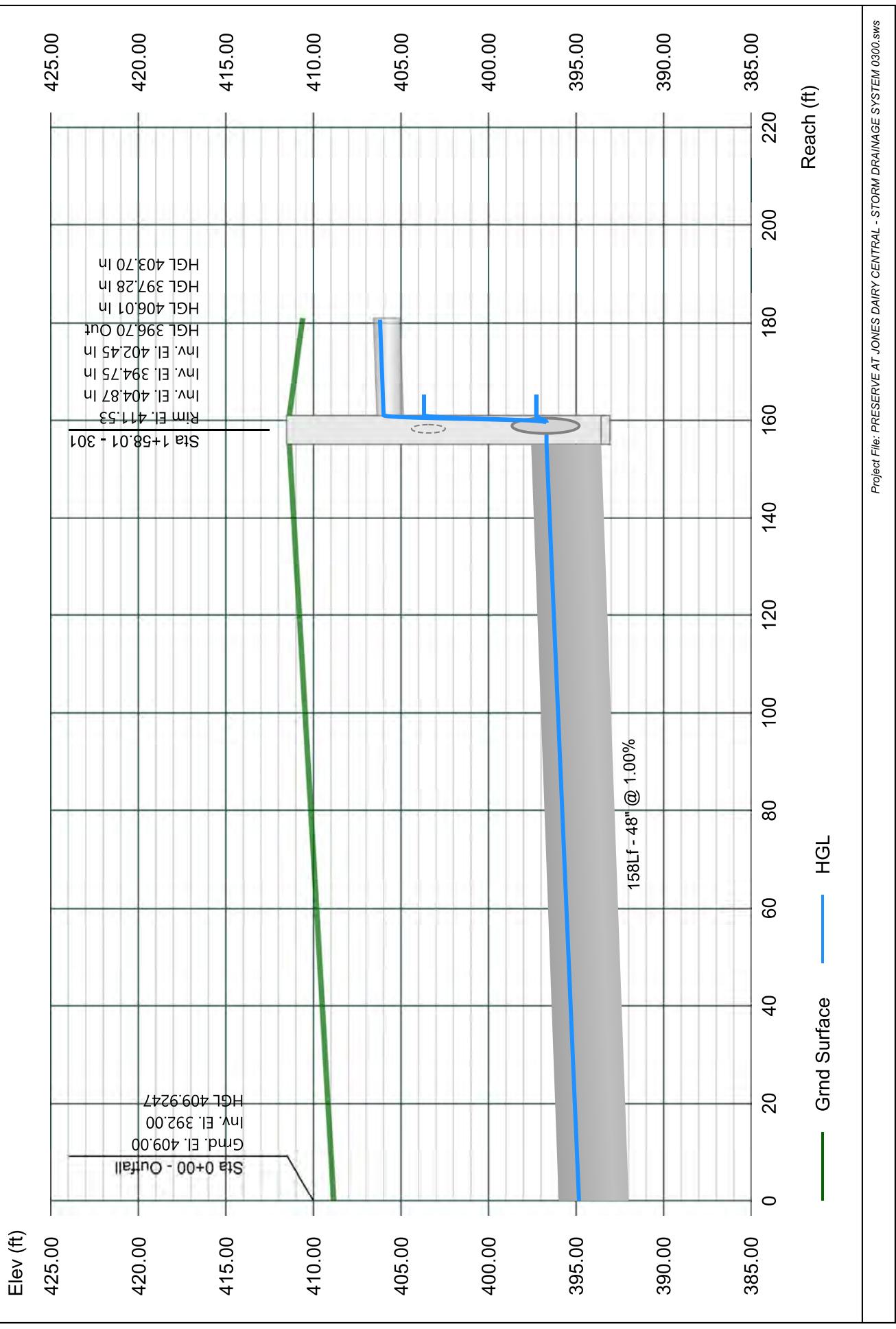


Line 1 - 301 TO 300

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

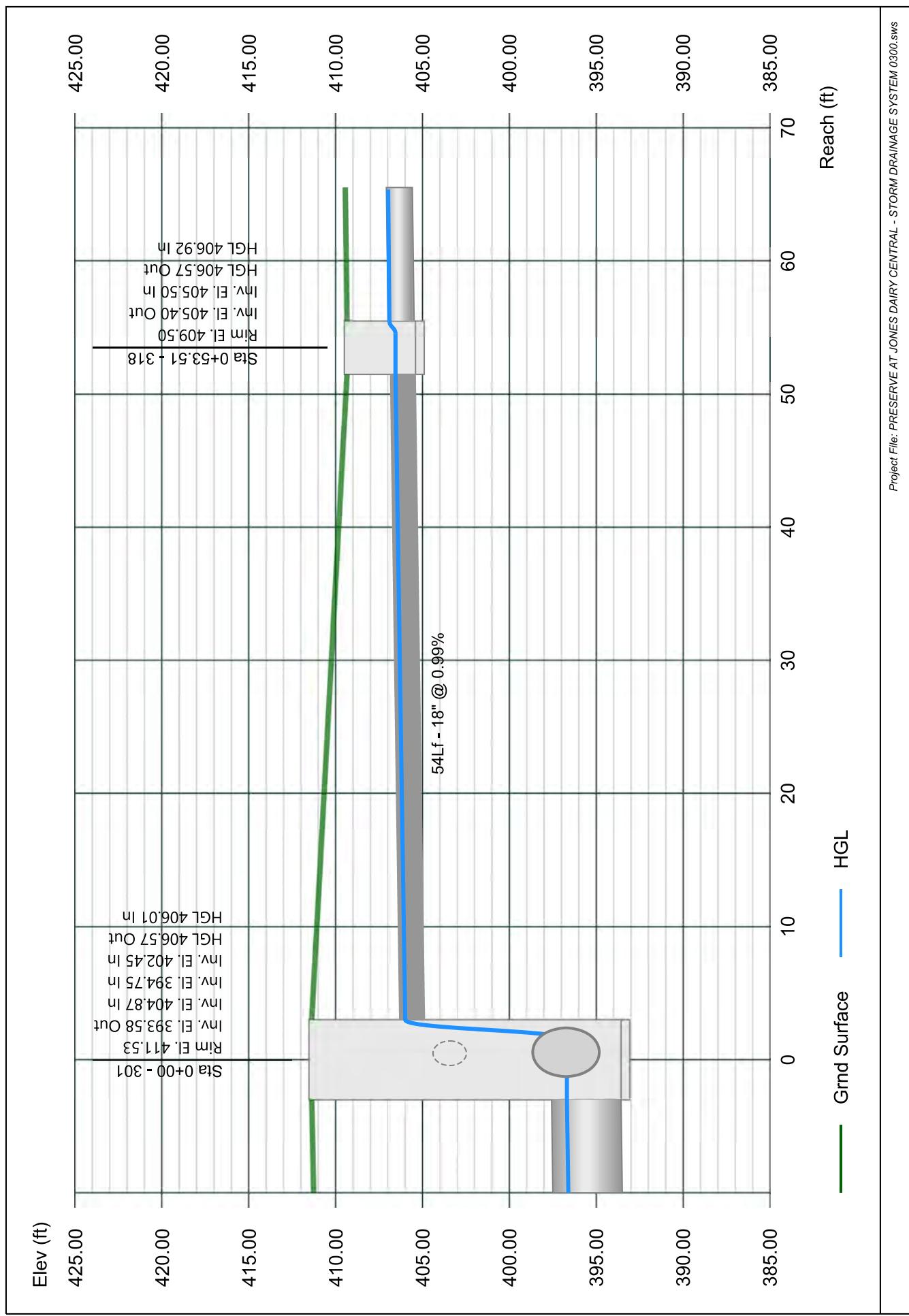


Line 2 - 318 TO 301

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

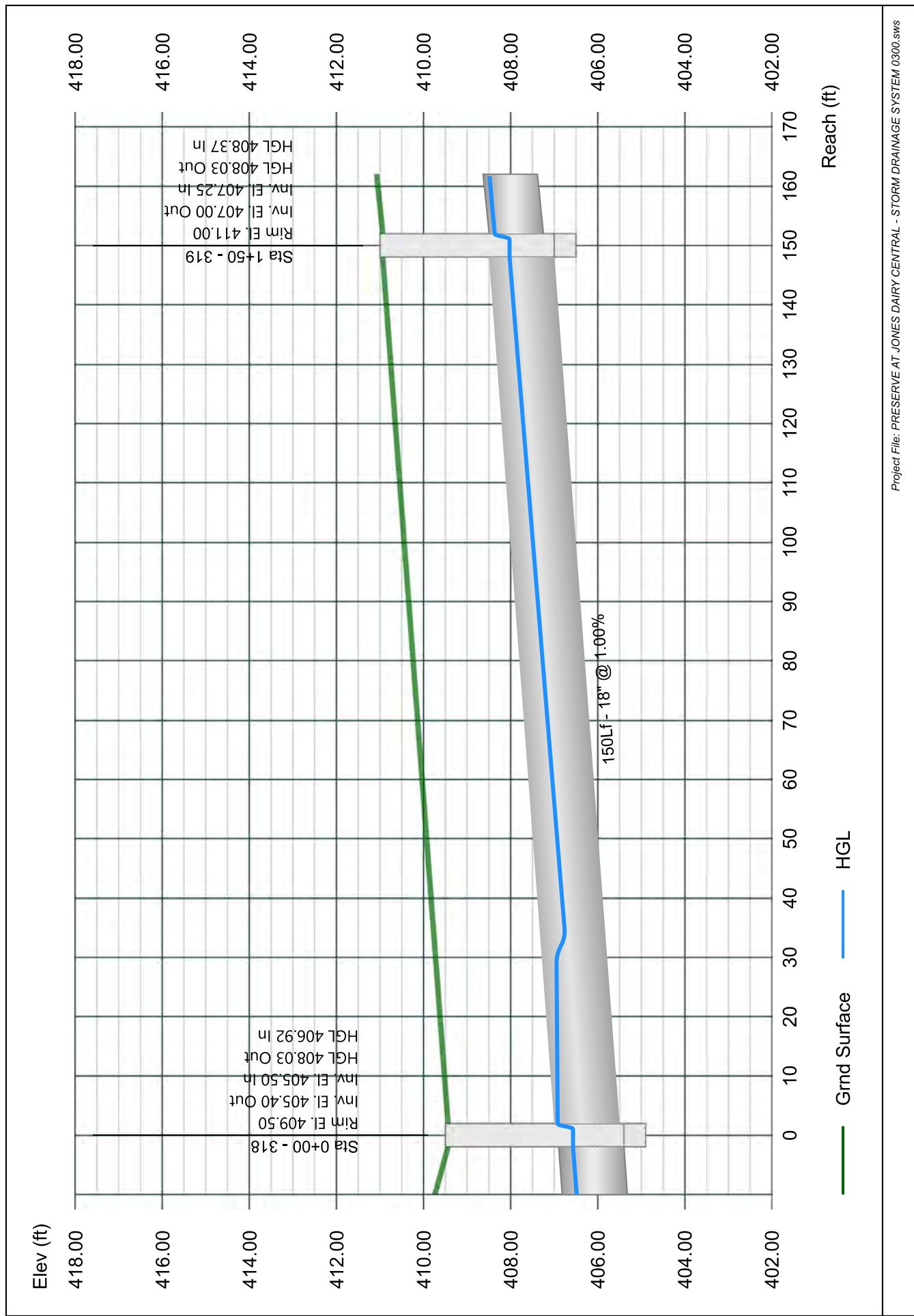


Line 3 - 319 TO 318

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

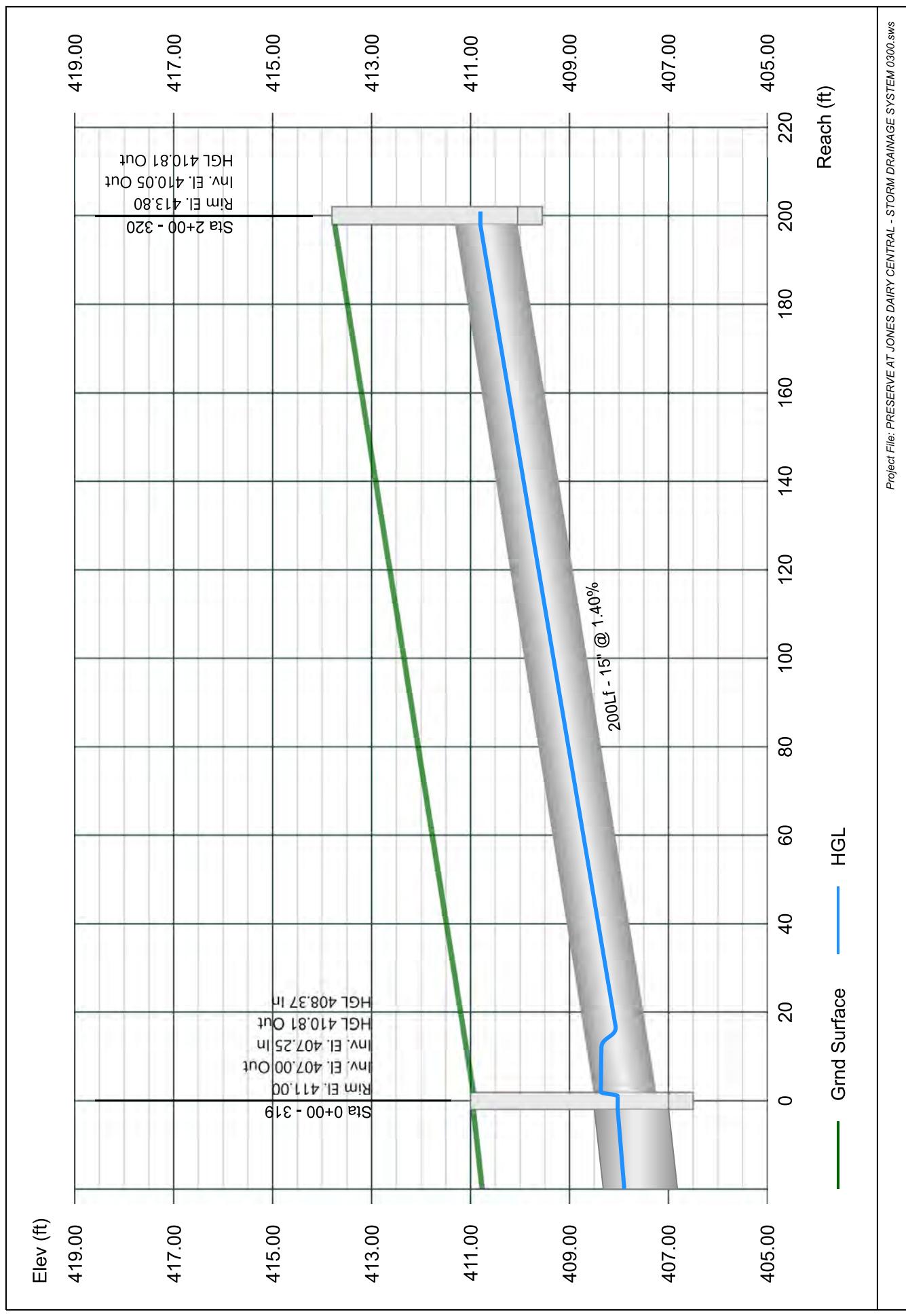


Line 4 - 320 TO 319

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

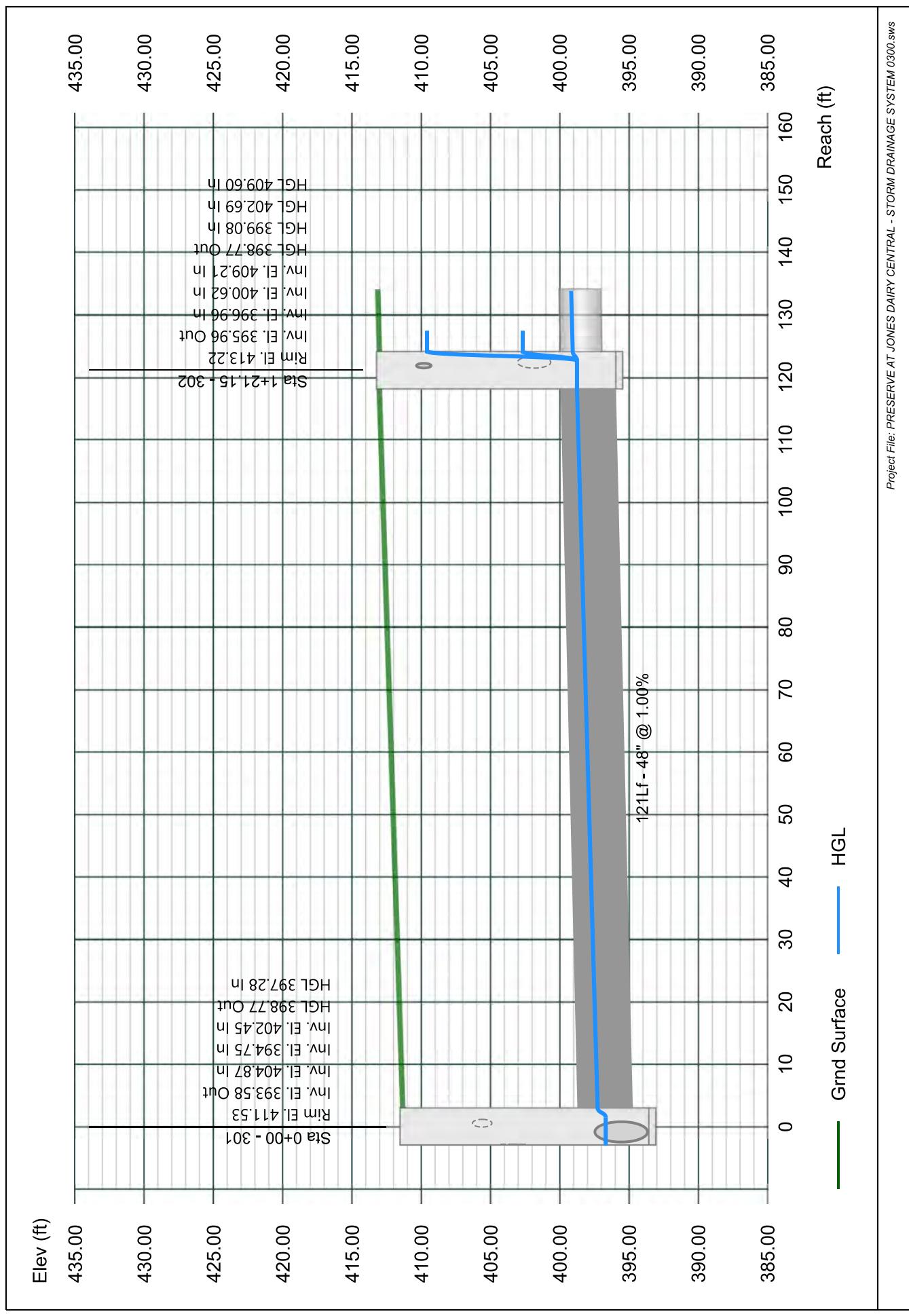


Line 5 - 302 TO 301

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

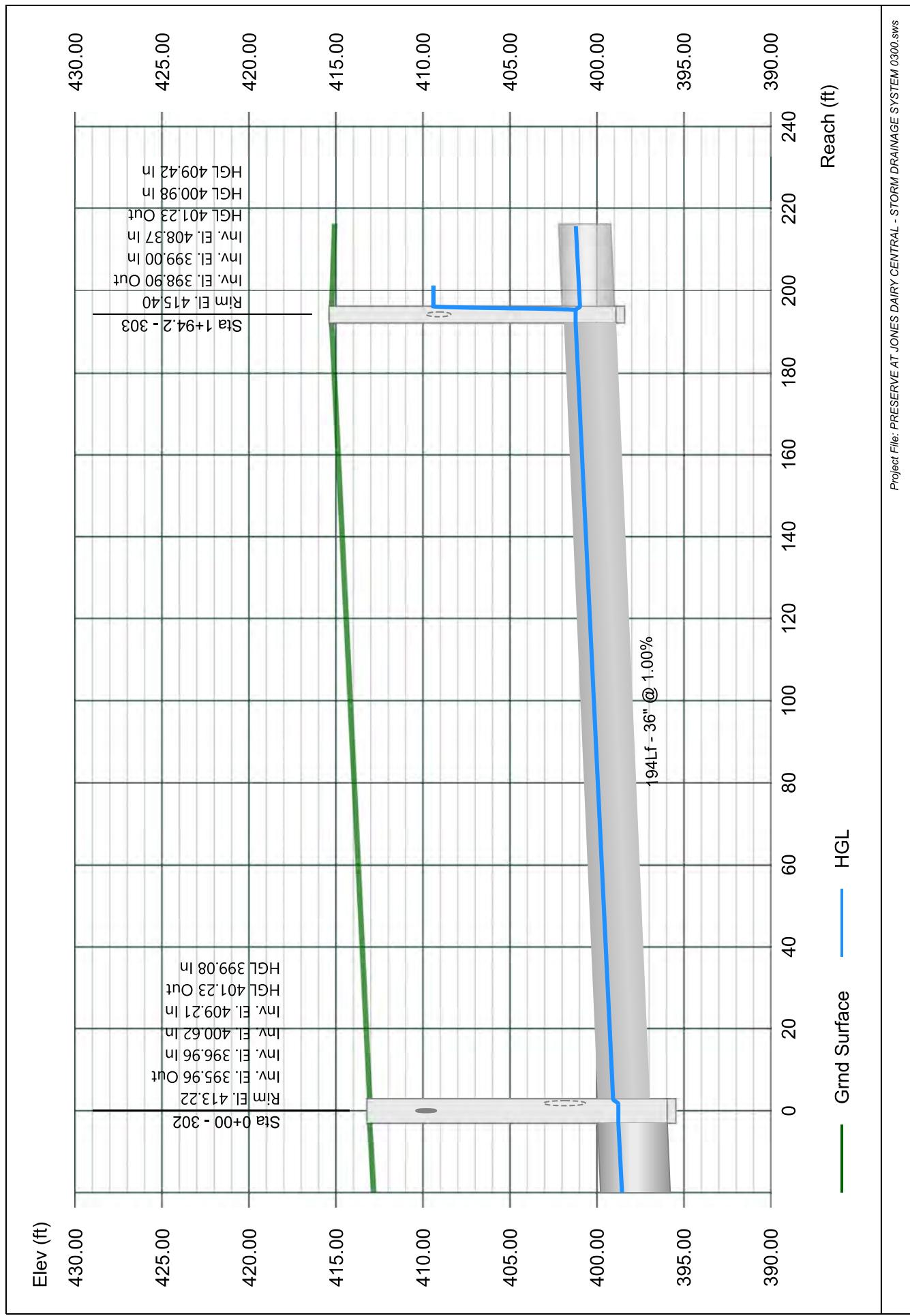


Line 6 - 303 TO 302

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

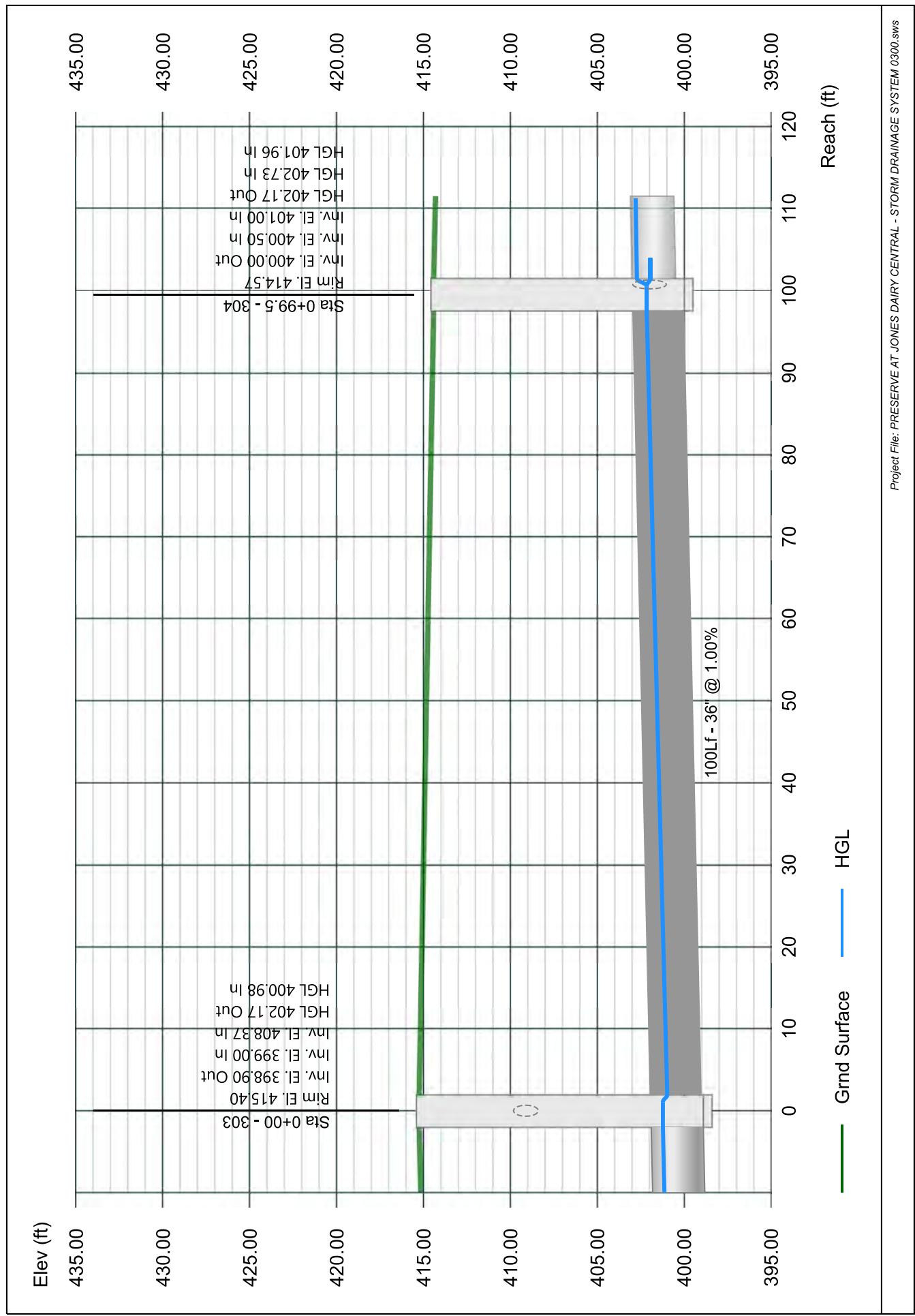


Line 7 - 304 TO 303

Project Name: Enter Project Name...

Stormwater Studio 2023 v 3.0.0.31

05-03-2023

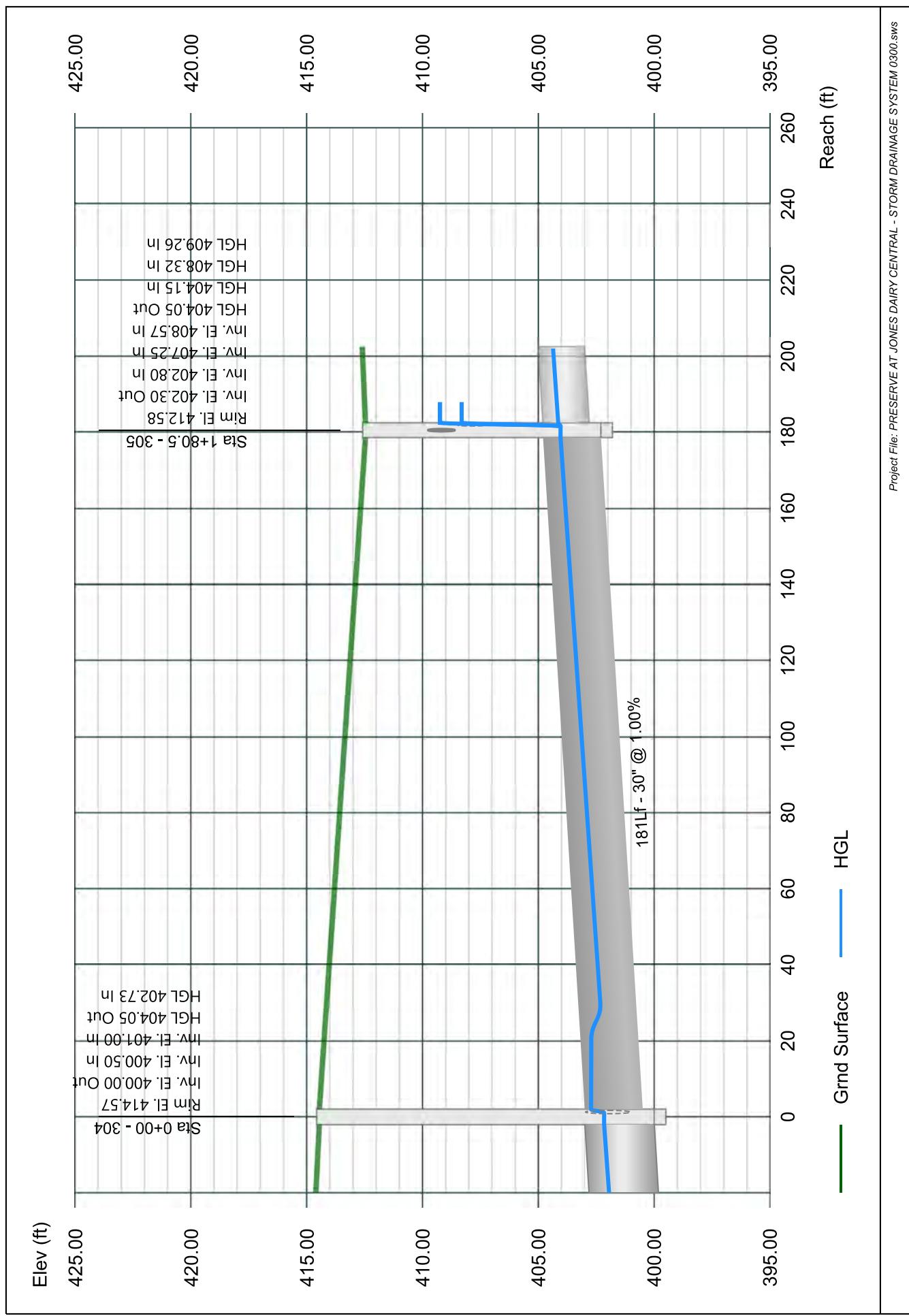


Line 8 - 305 TO 304

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

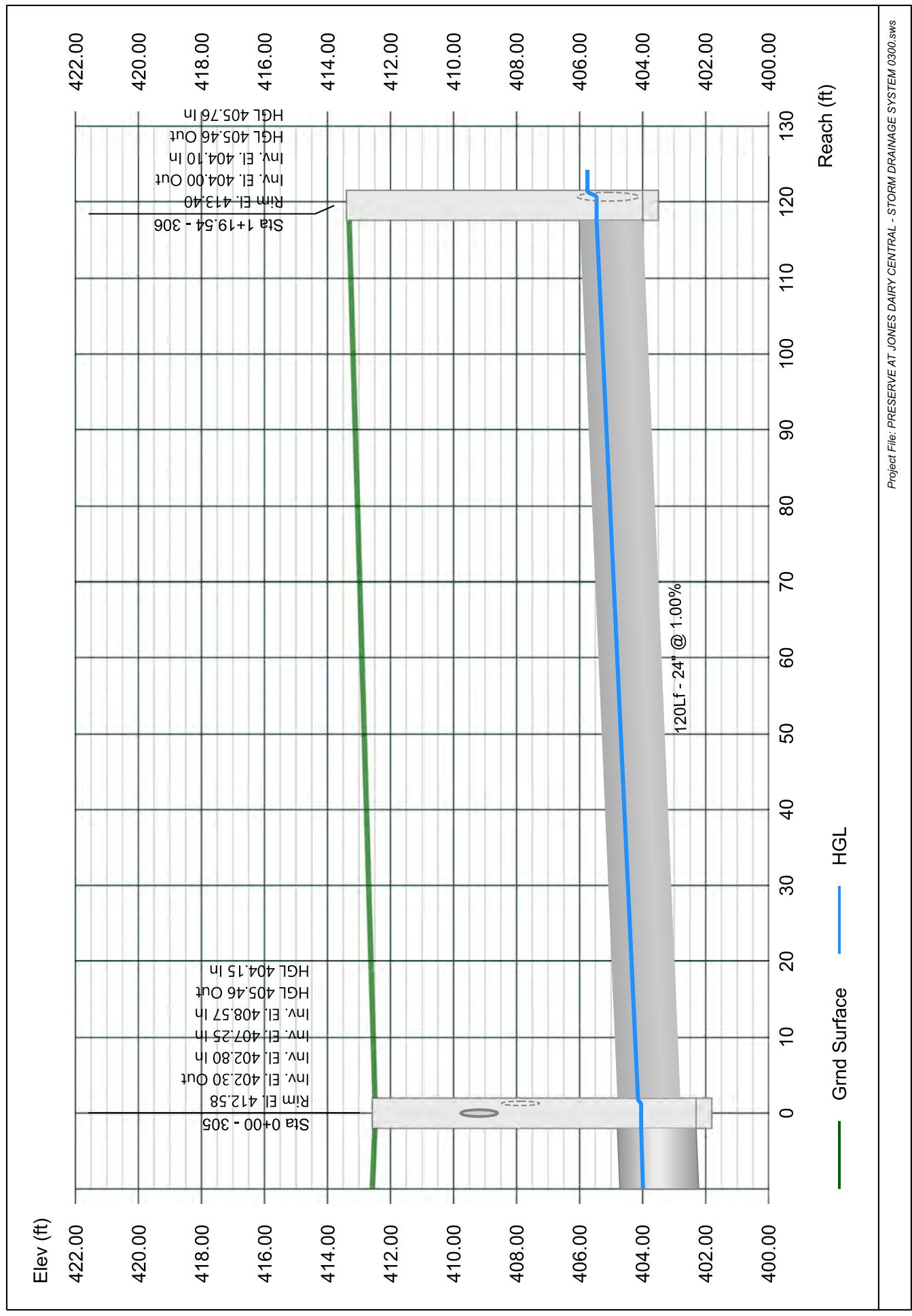


Line 9 - 306 TO 305

Project Name: Enter Project Name...

Stormwater Studio 2023 v 3.0.0.31

05-03-2023

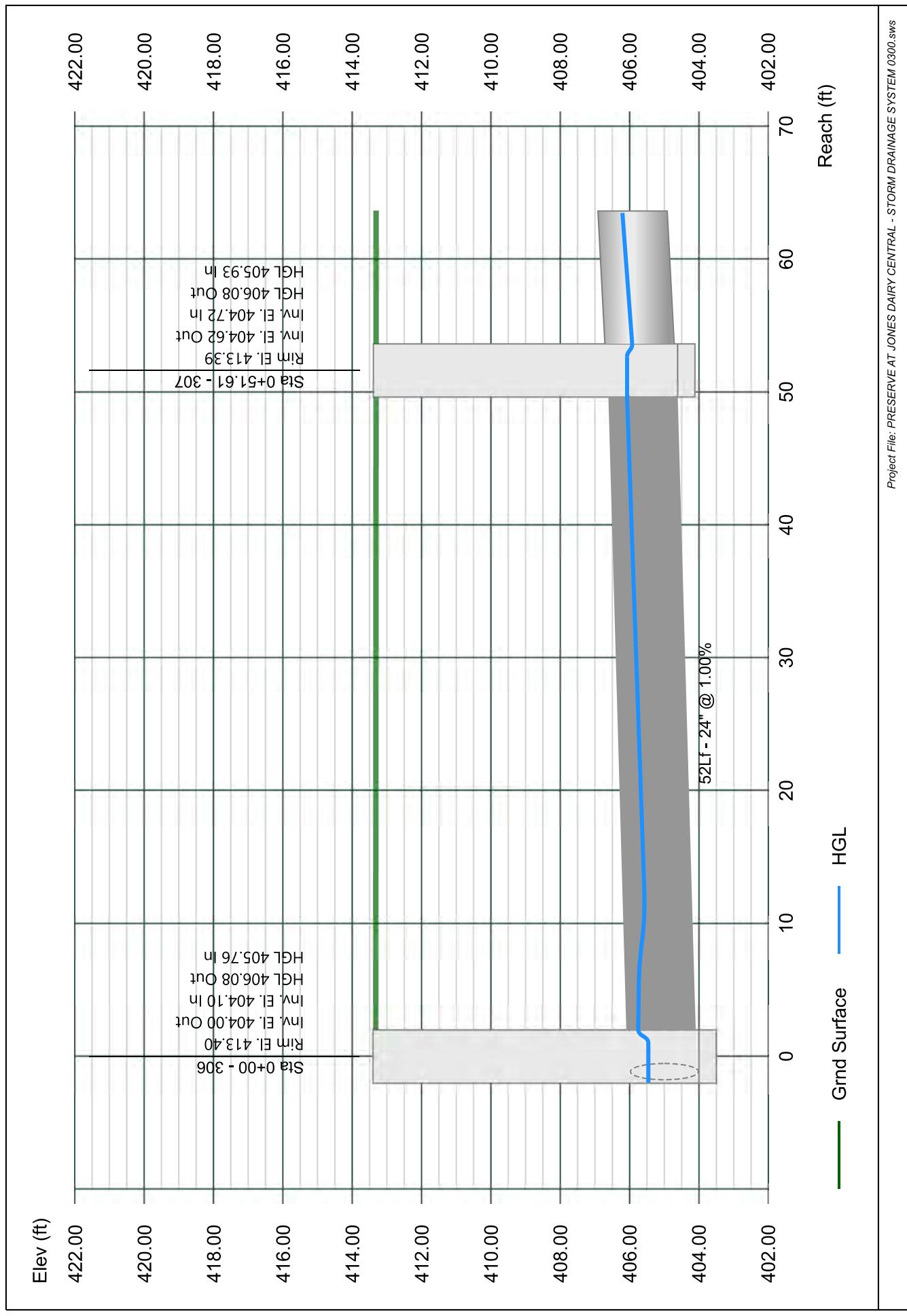


Line 10 - 307 TO 306

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

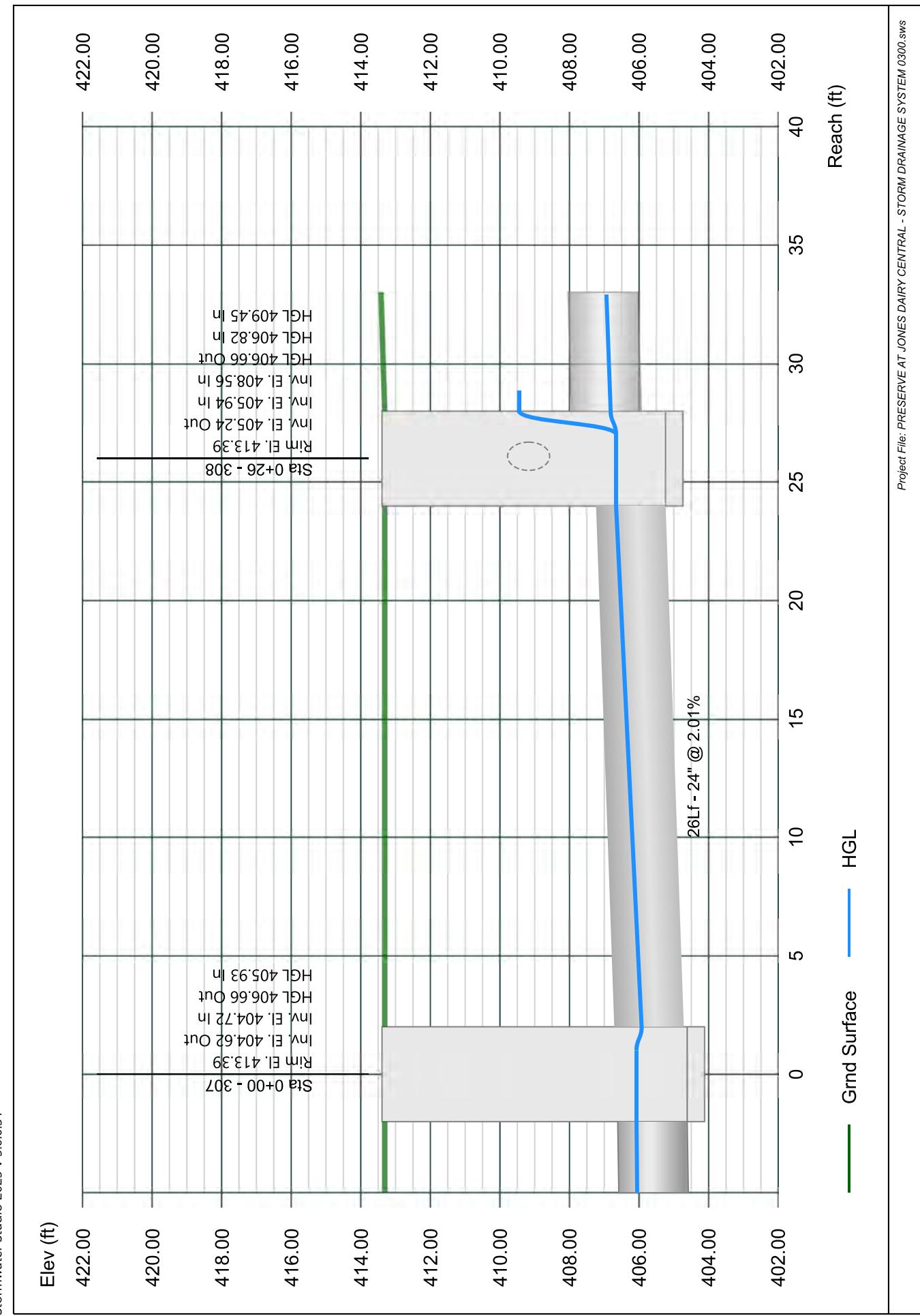


Line 11 - 308 TO 307

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

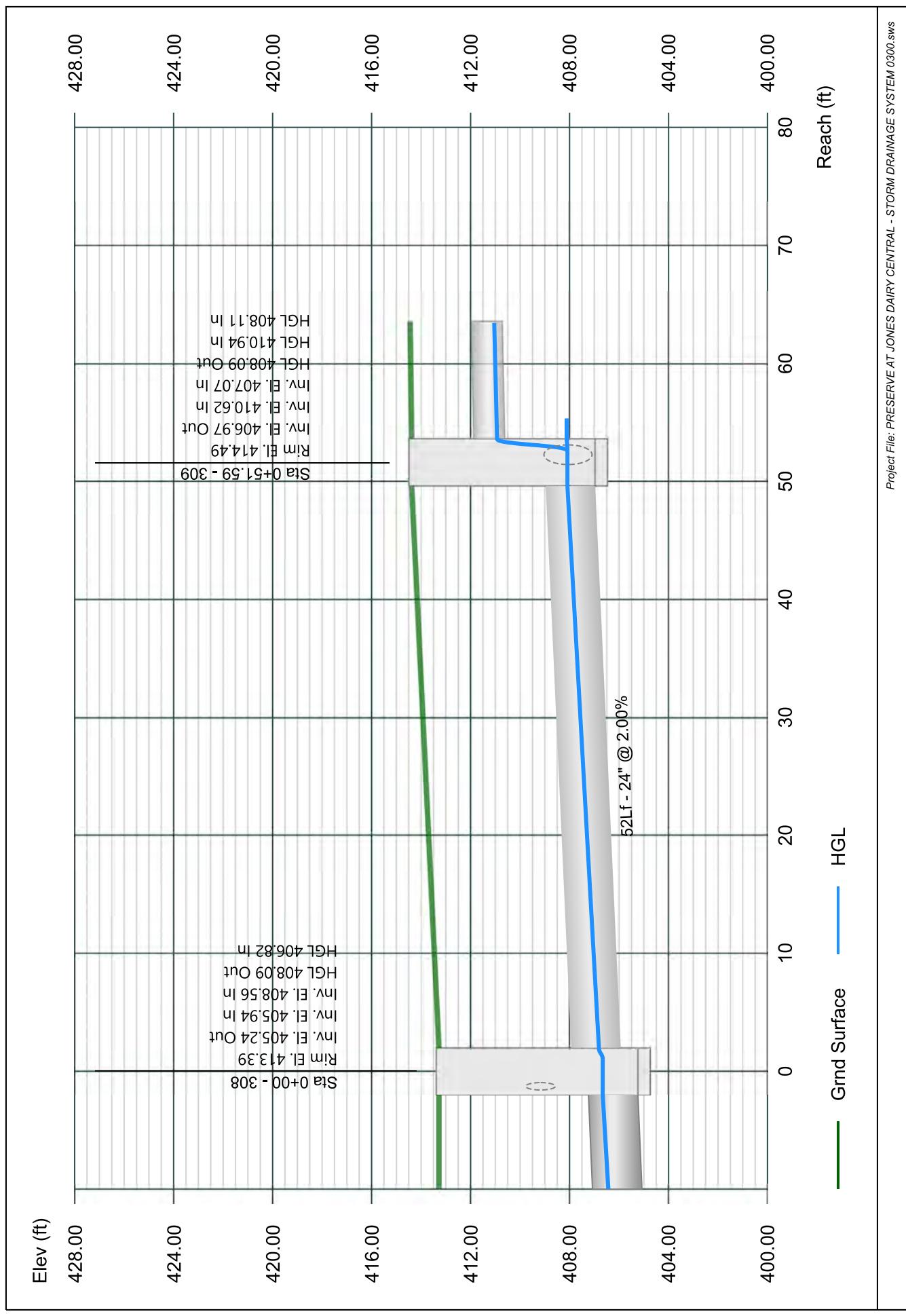


Line 12 - 309 TO 308

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

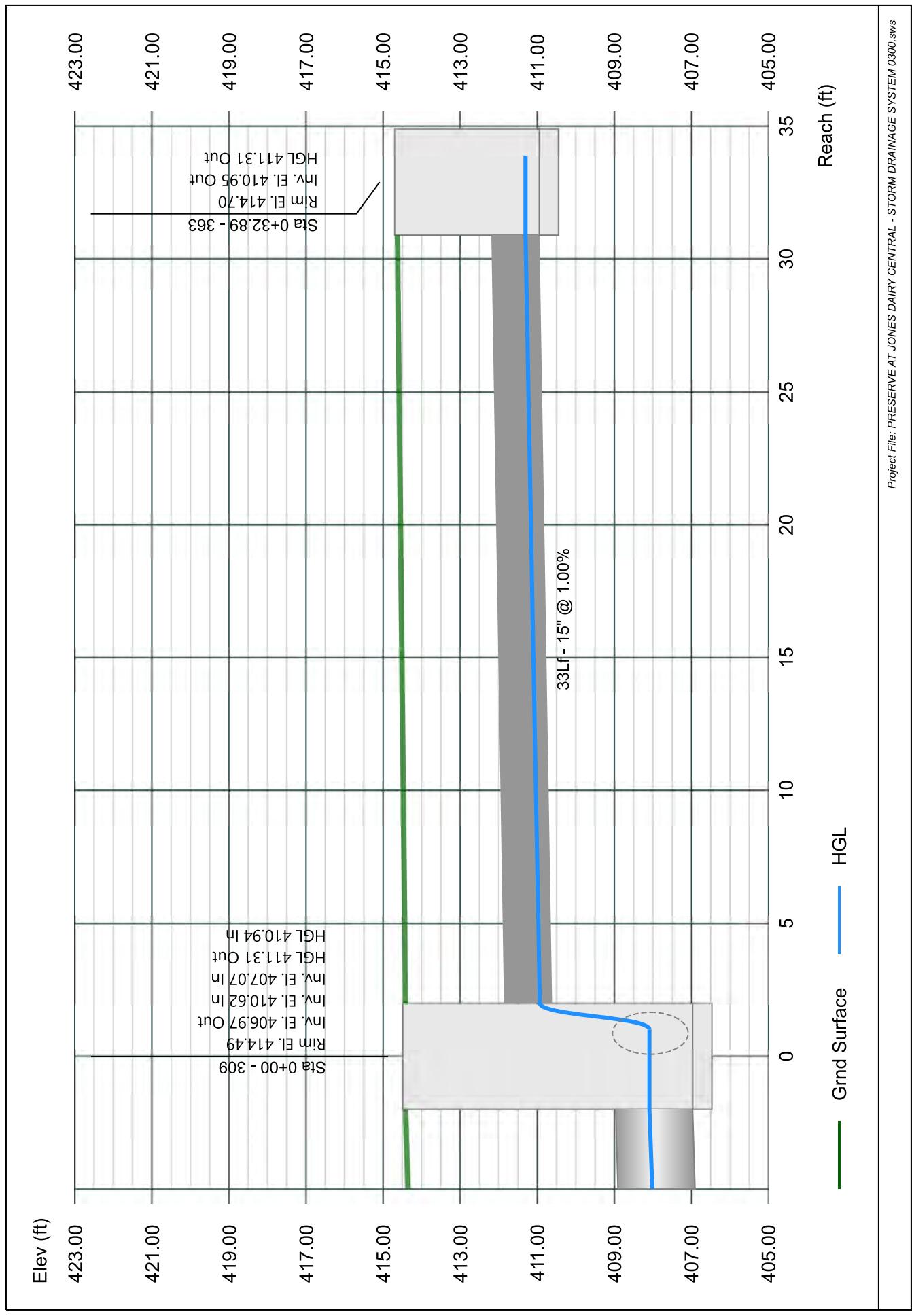
05-03-2023



Line 13 - 363 TO 309

Project Name: Enter Project Name...

Stormwater Studio 2023 v30031

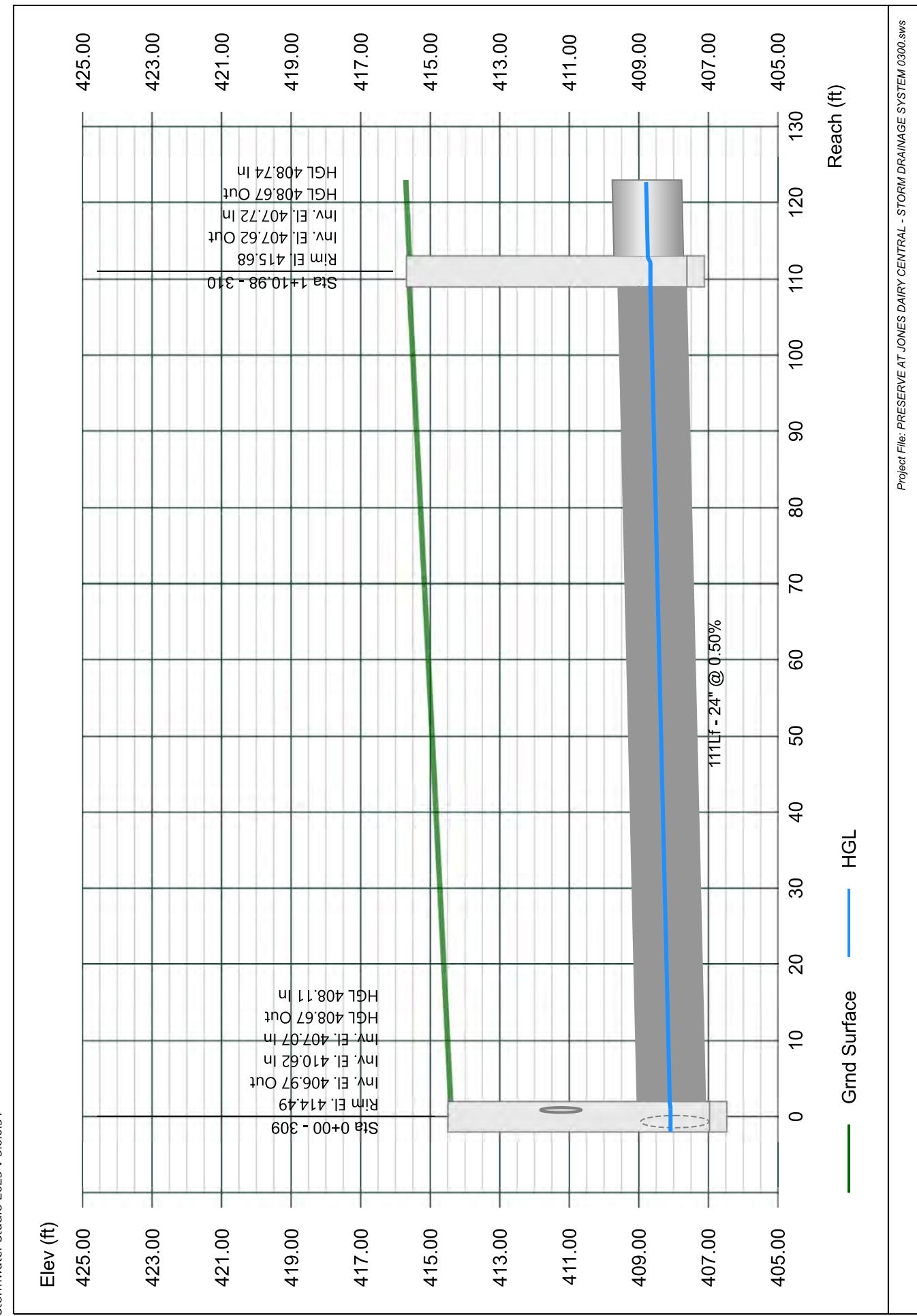


Line 14 - 310 TO 309

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

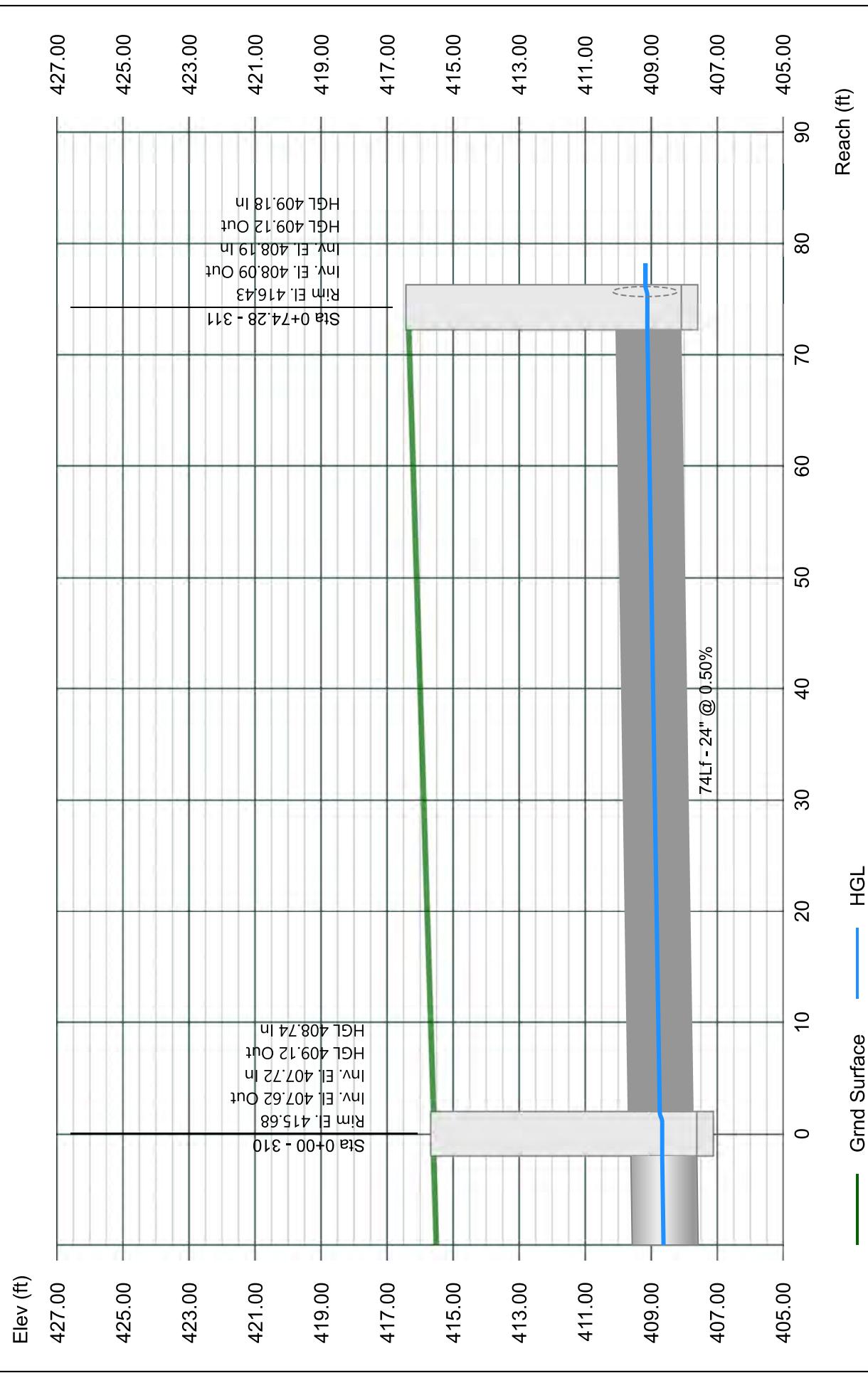


Line 15 - 311 TO 310

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

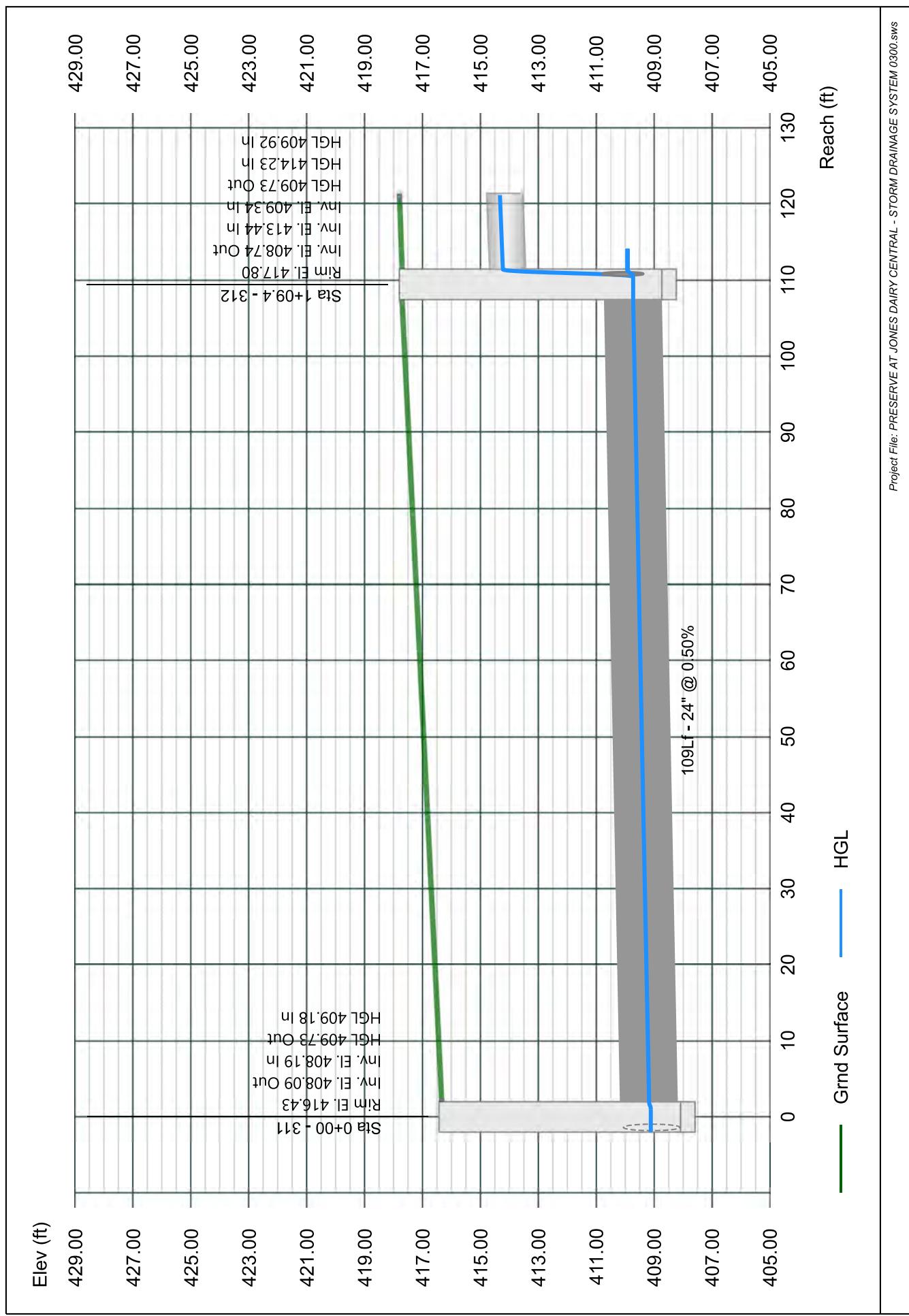


Line 16 - 312 TO 311

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

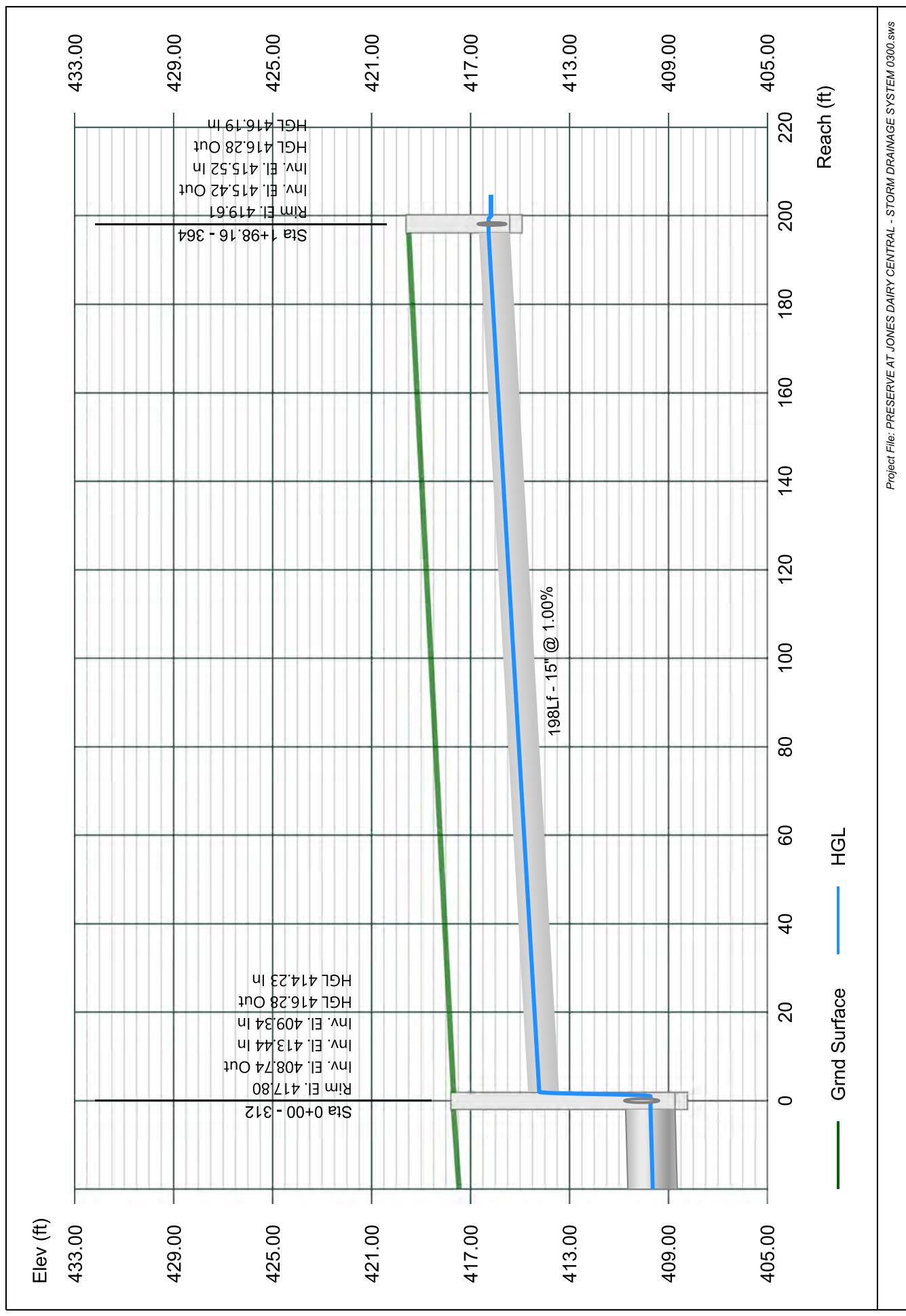


Line 17 - 364 TO 312

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

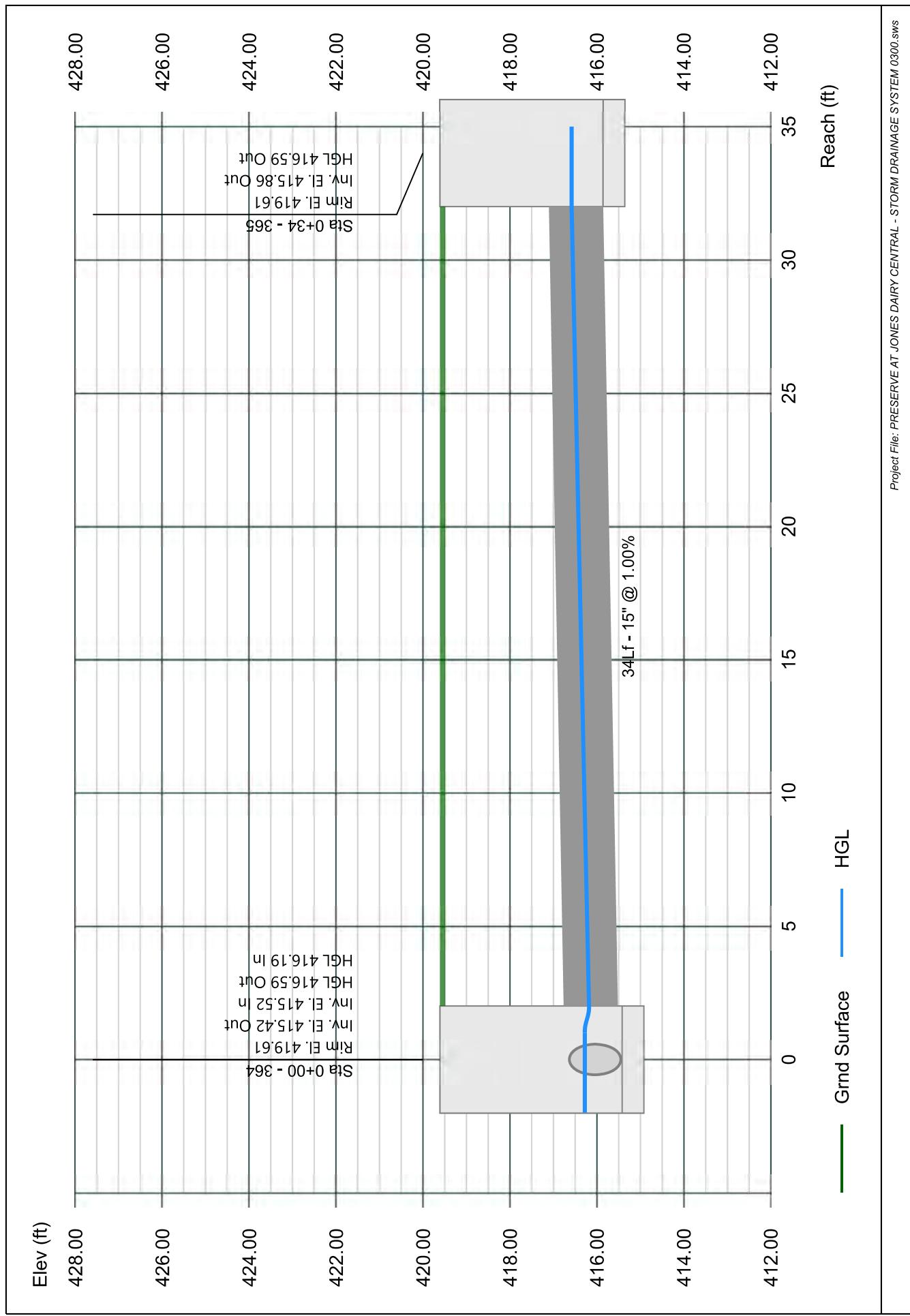
05-03-2023



Line 18 - 365 TO 364

Stormwater Studio 2023 v 3.0.0.31
05-03-2023

Project Name: Enter Project Name...

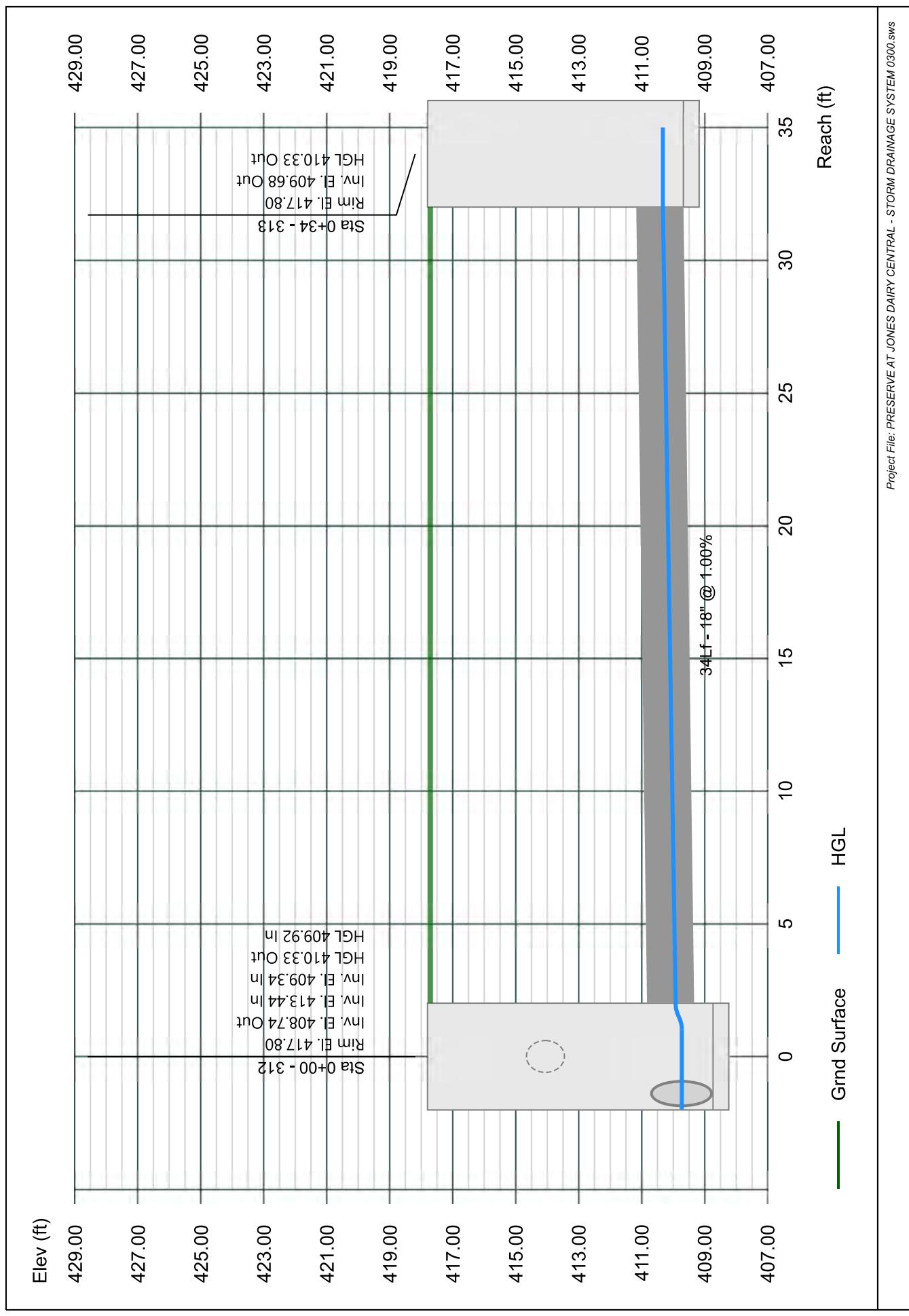


Line 19 - 313 TO 312

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

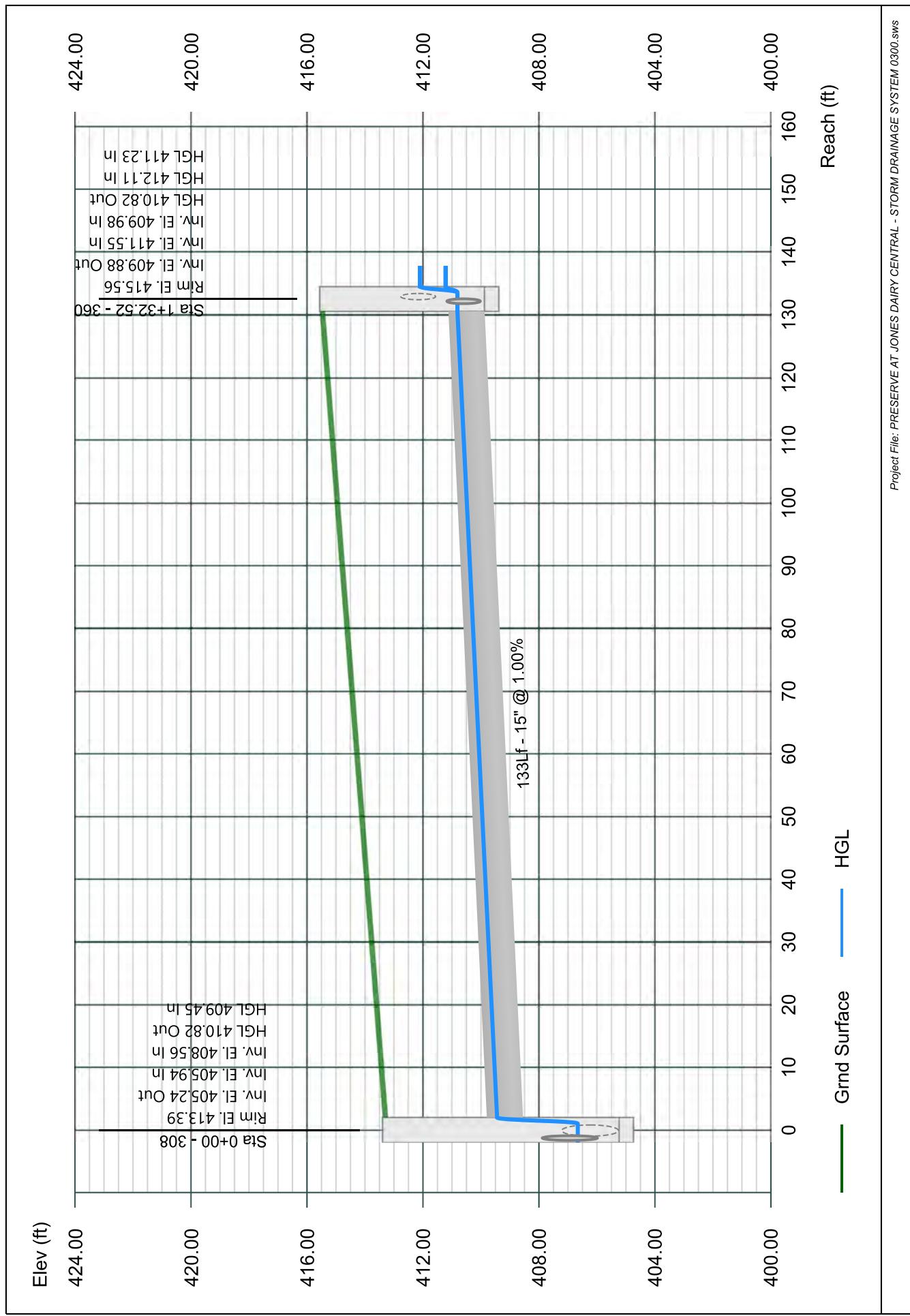


Line 20 - 360 TO 308

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

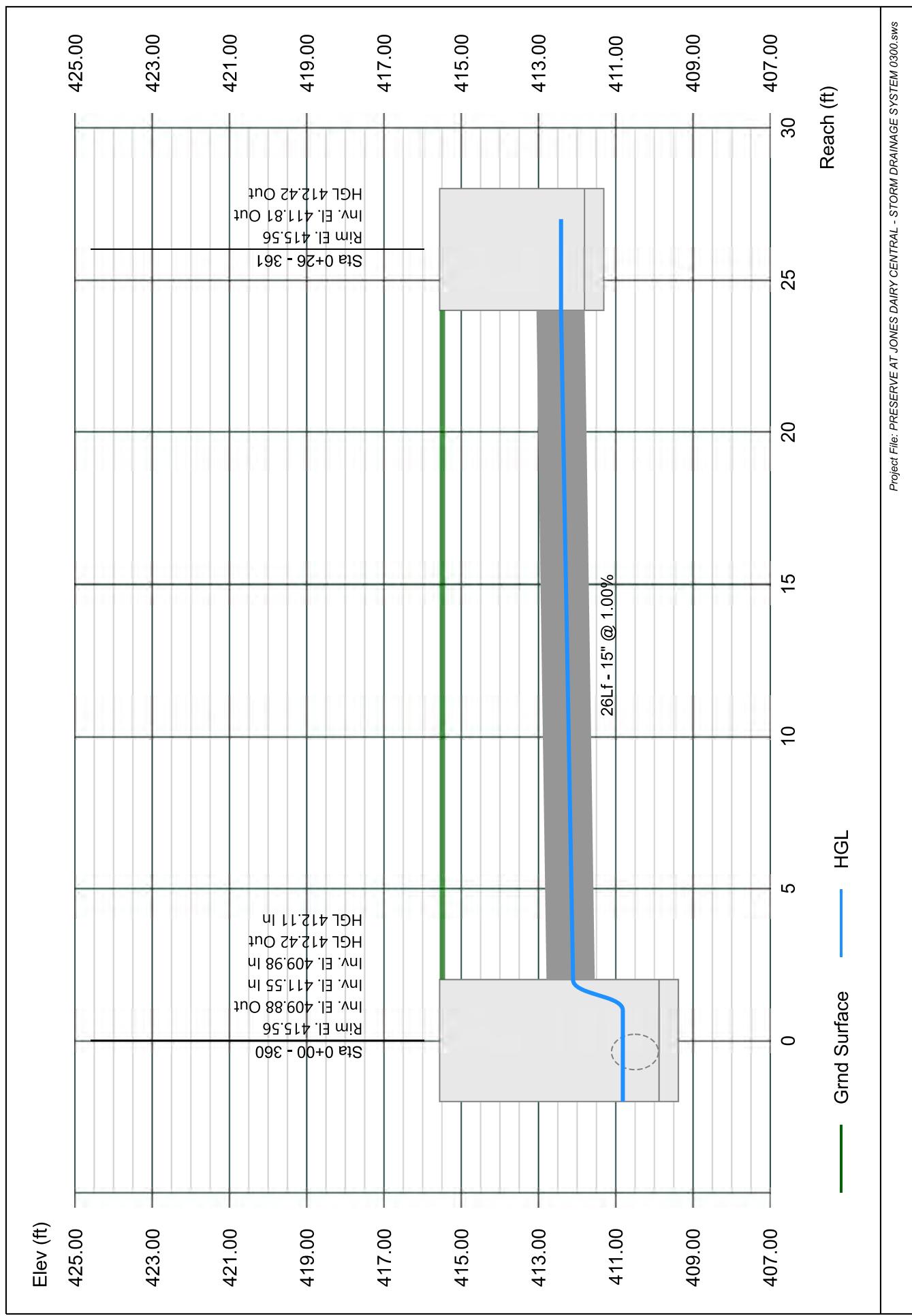


Line 21 - 361 TO 360

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

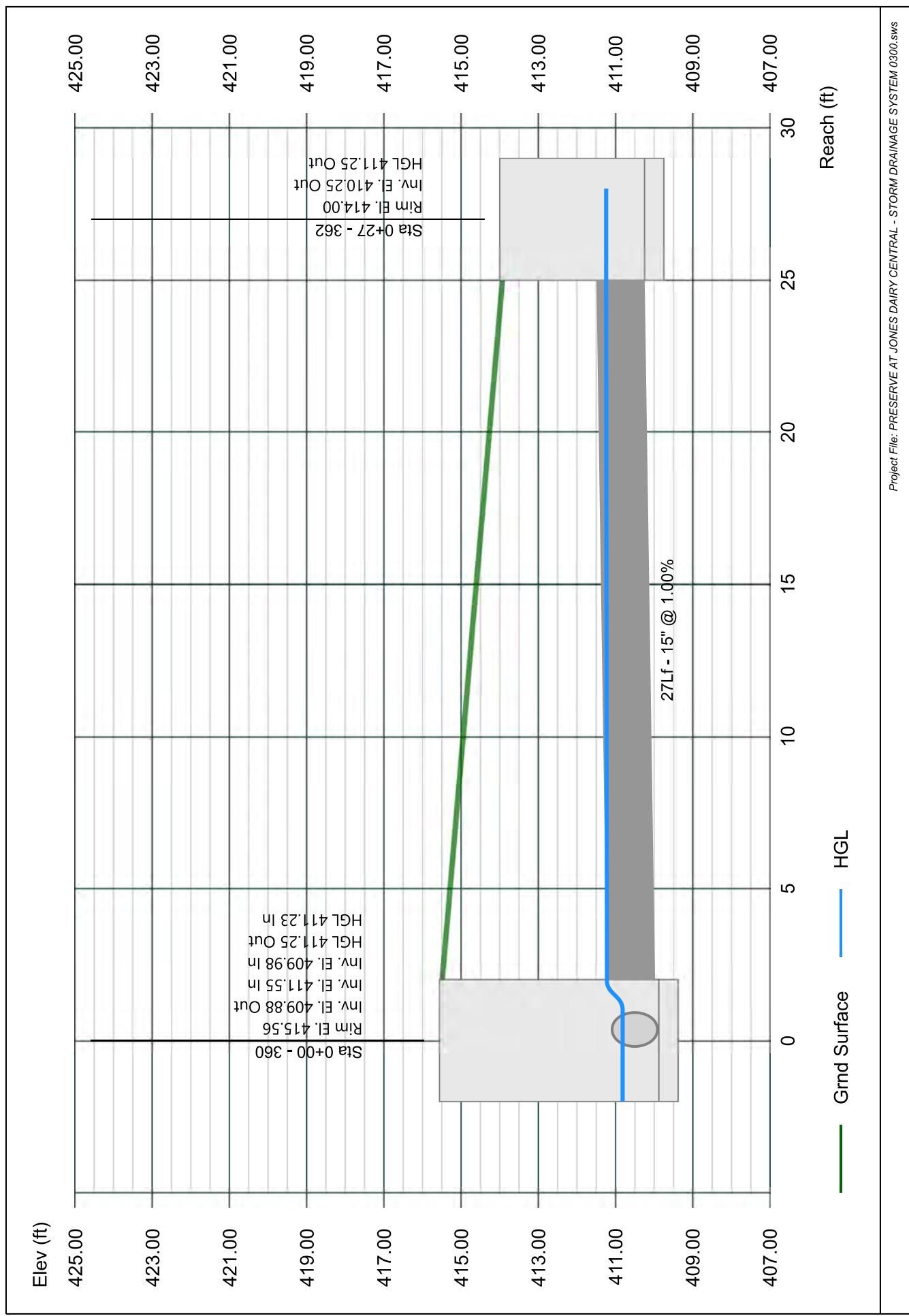


Line 22 - 362 TO 360

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

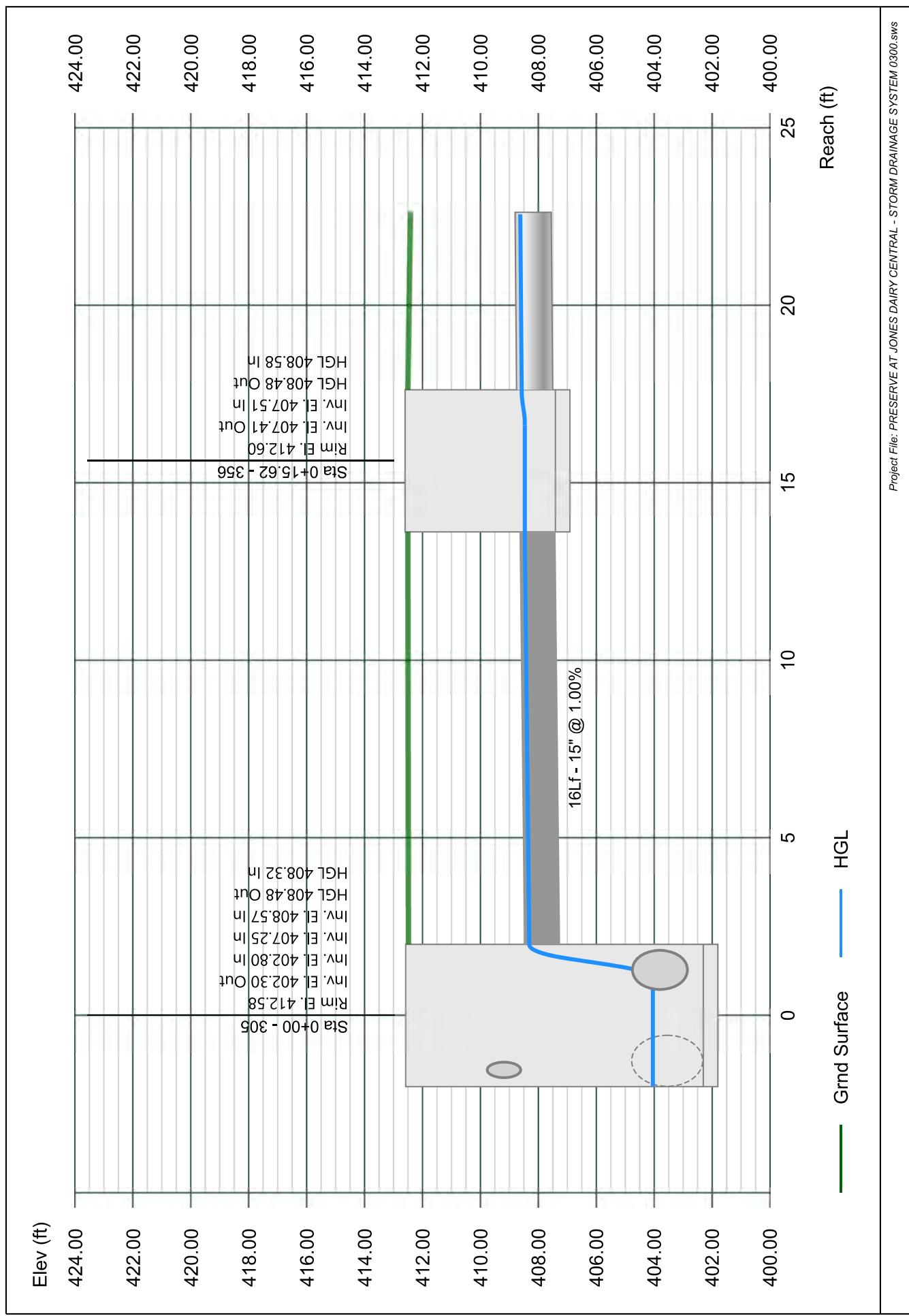


Line 23 - 356 TO 305

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

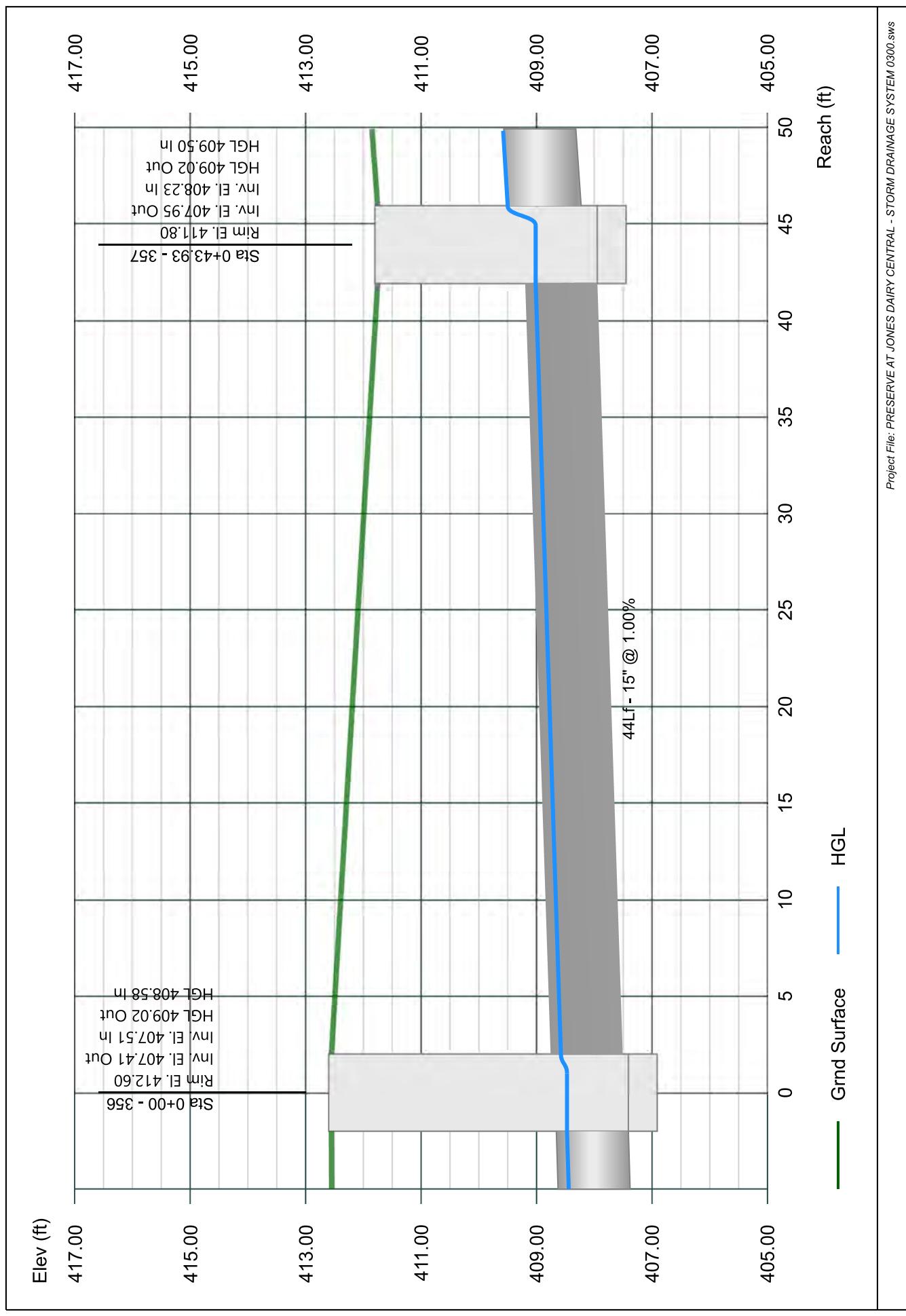


Line 24 - 357 TO 356

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

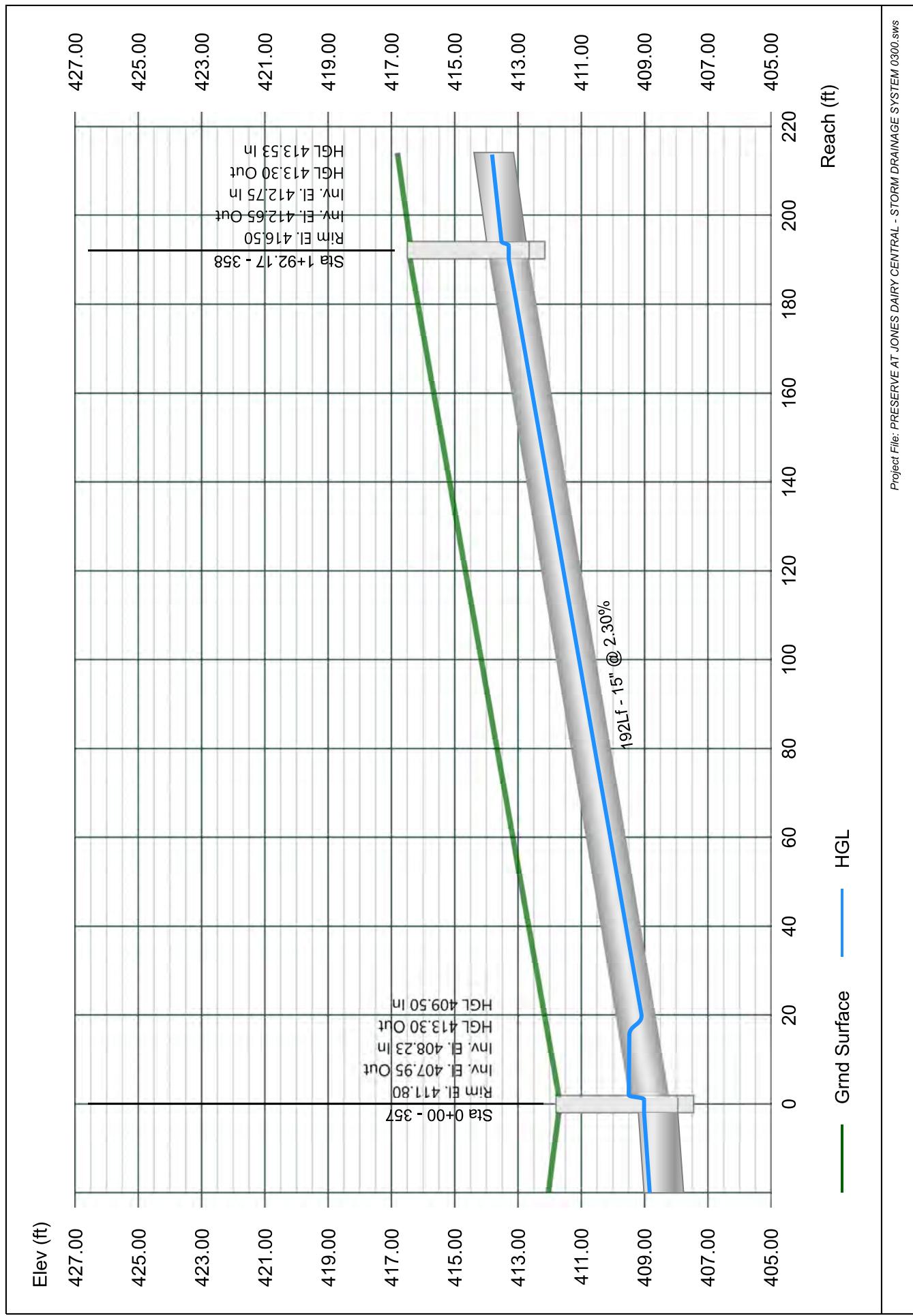


Line 25 - 358 TO 357

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

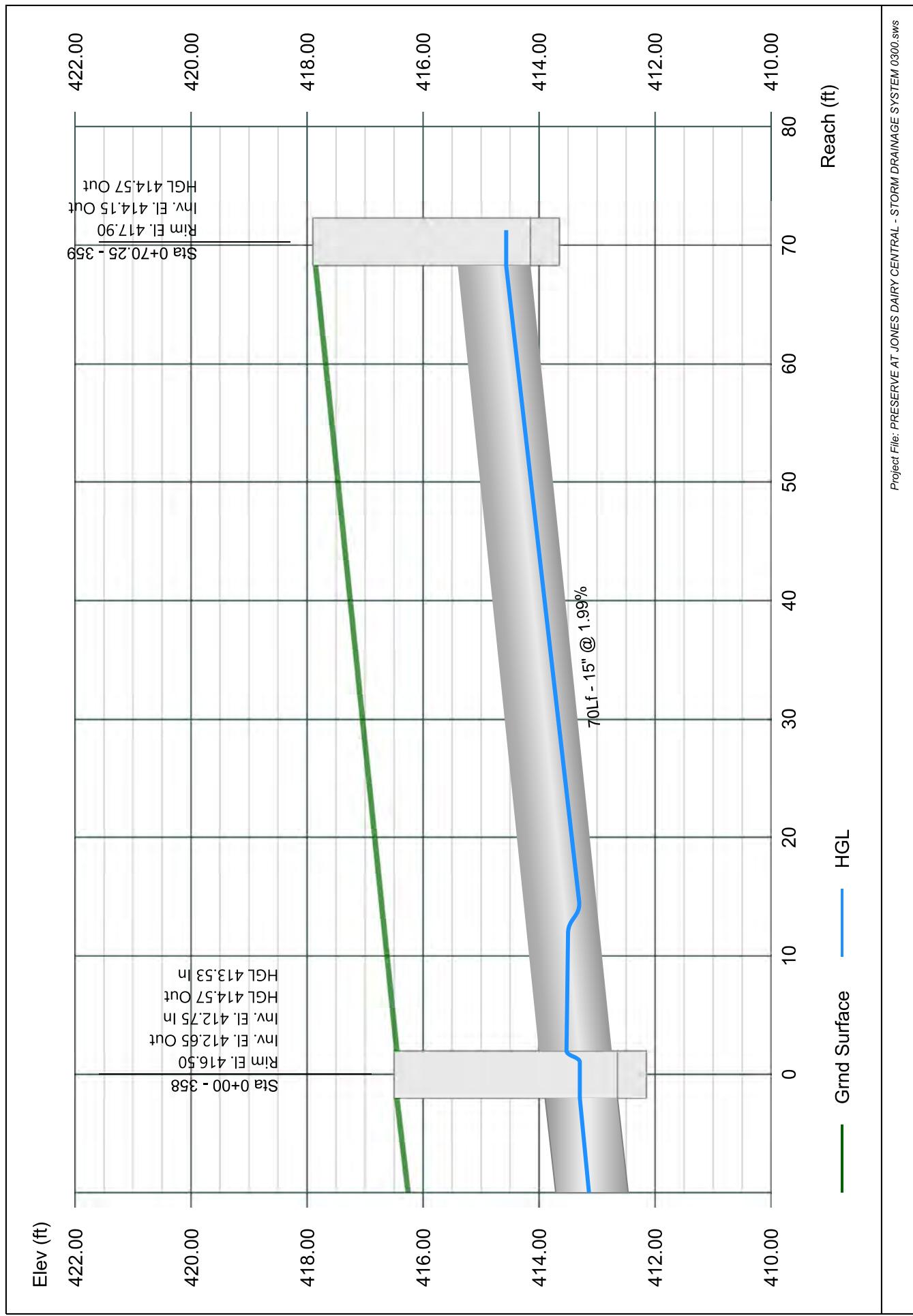


Line 26 - 359 TO 358

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

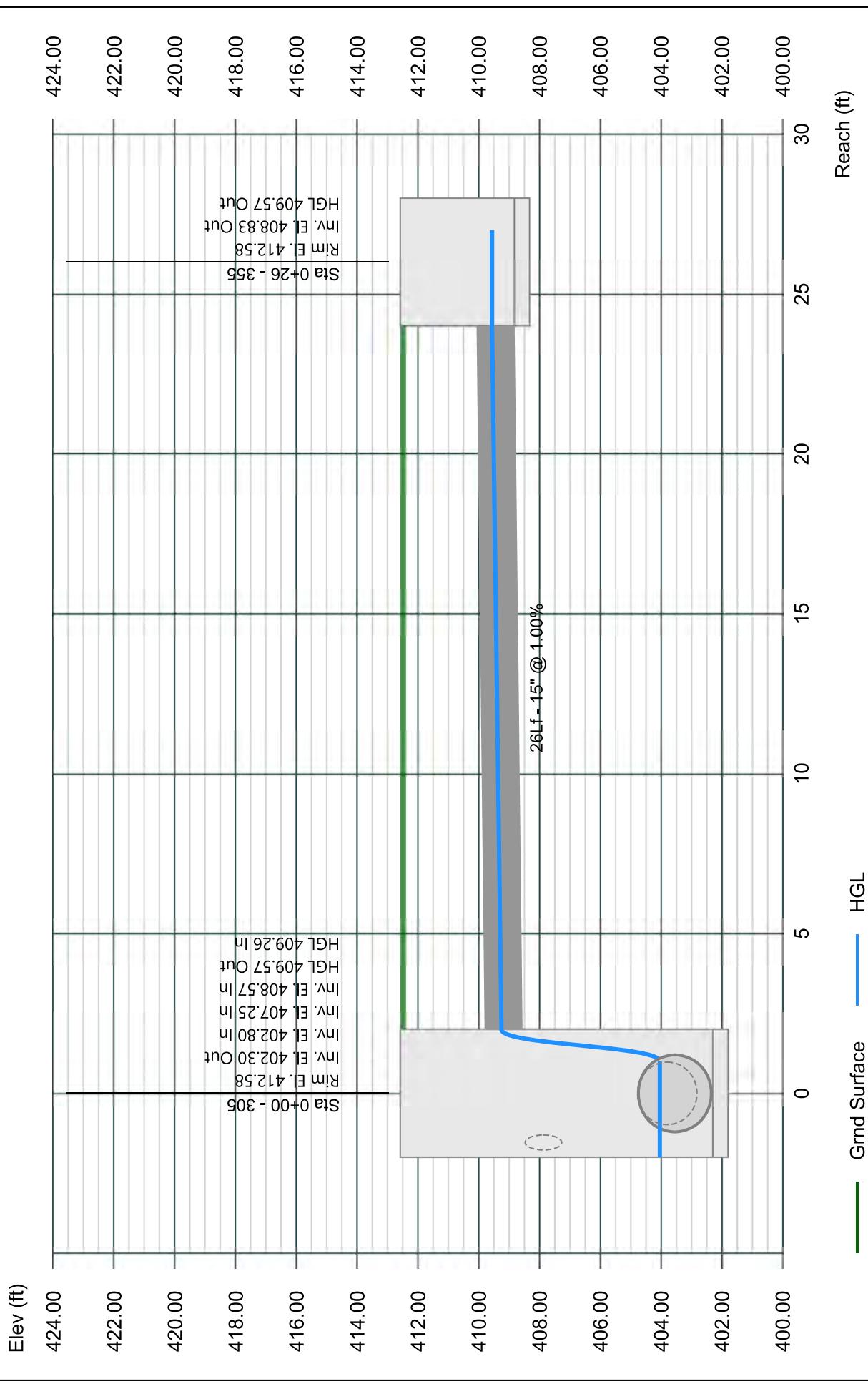


Line 27 - 355 TO 305

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

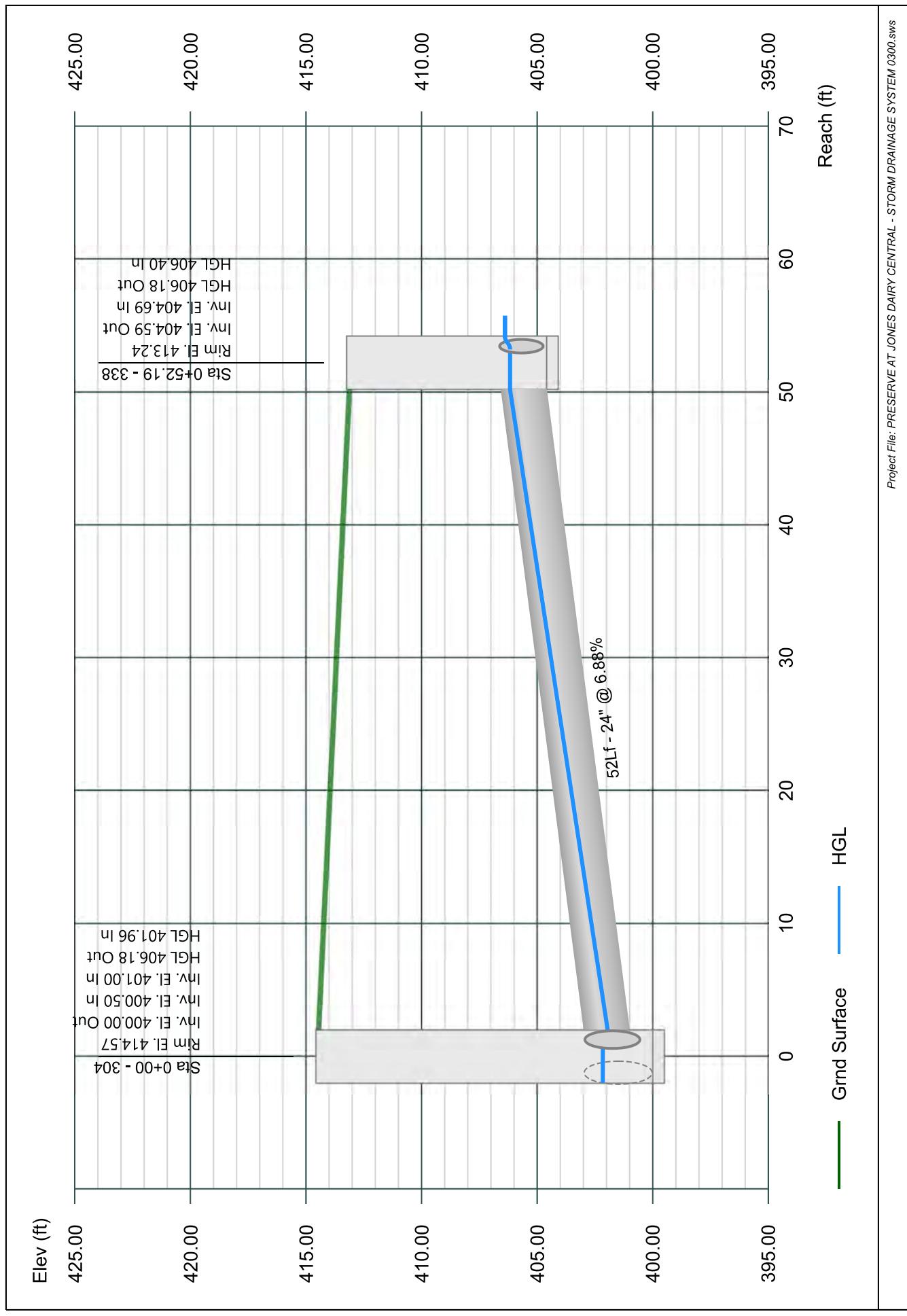


Line 28 - 338 TO 304

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

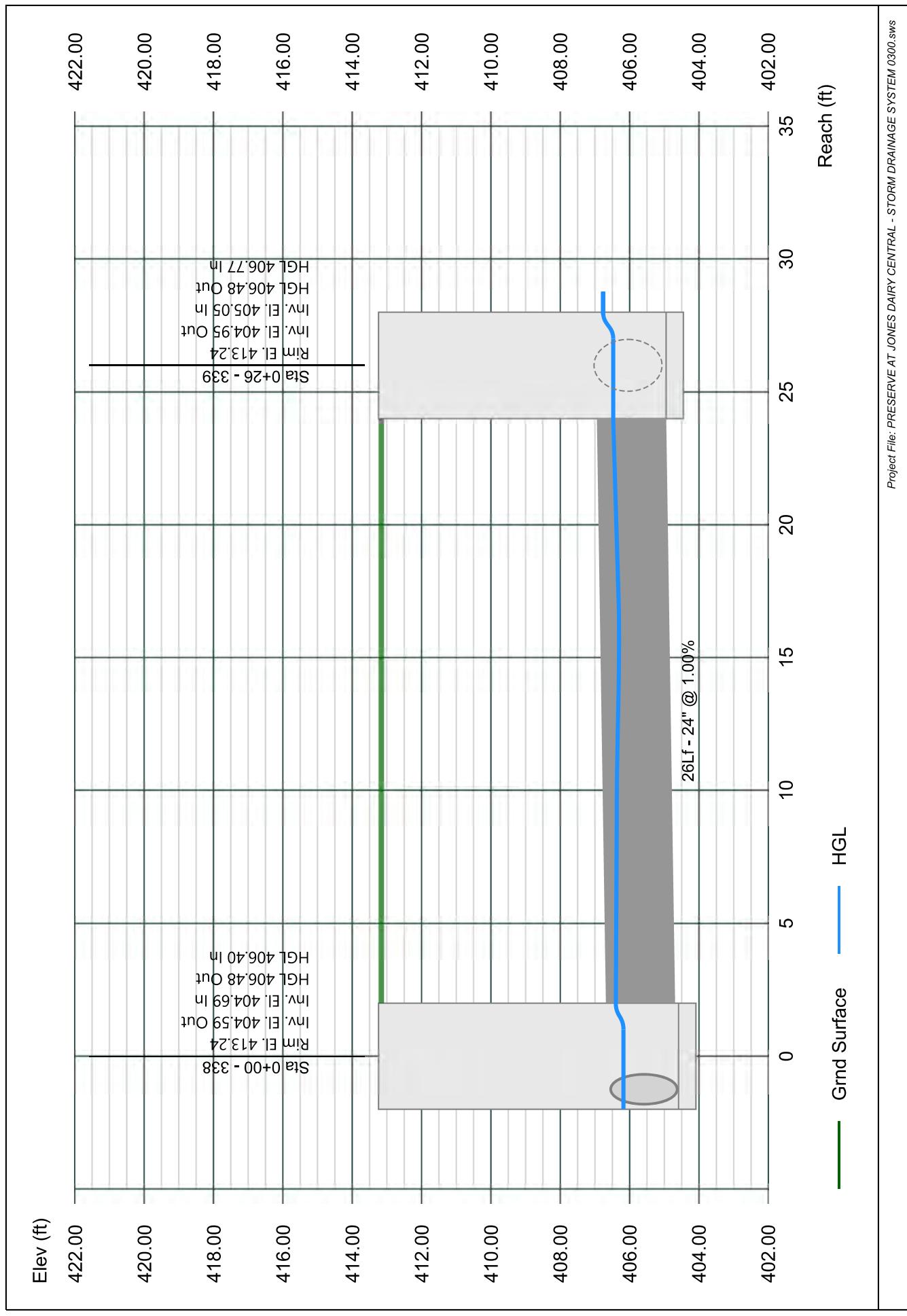


Line 29 - 339 TO 338

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

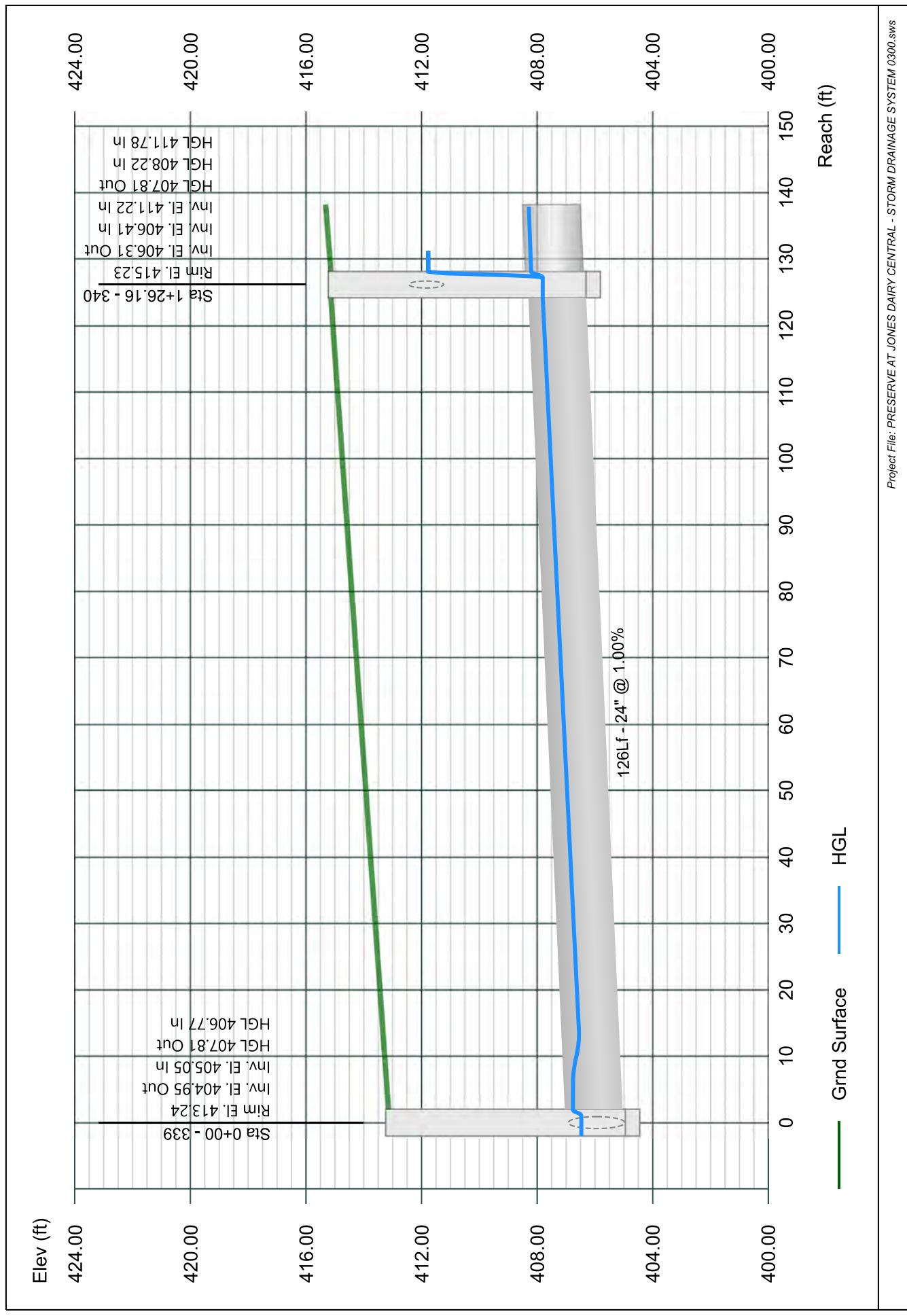
05-03-2023



Line 30 - 340 TO 339

Project Name: Enter Project Name...

Stormwater Studio 2023 v3 00 31

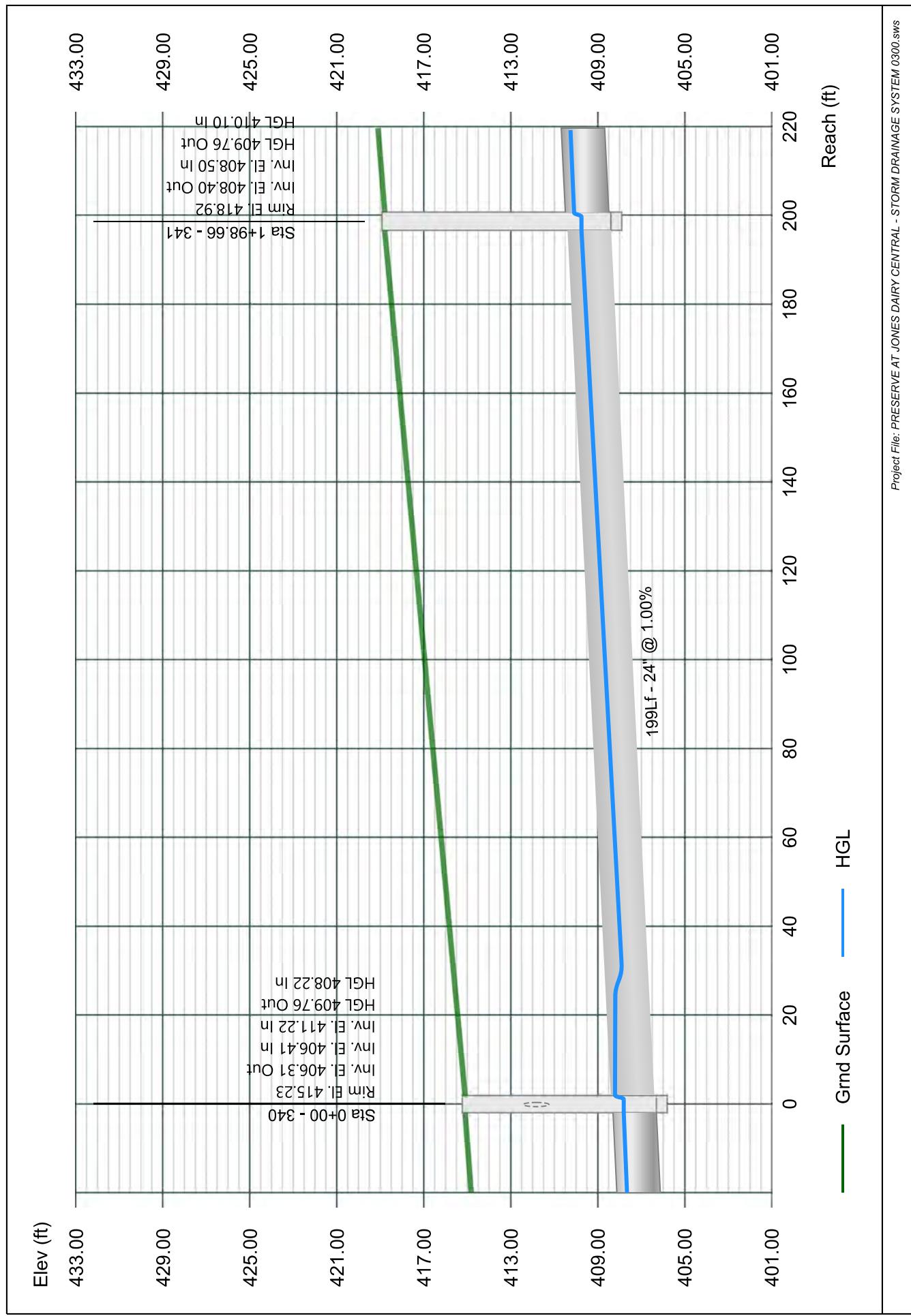


Line 31 - 341 TO 340

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

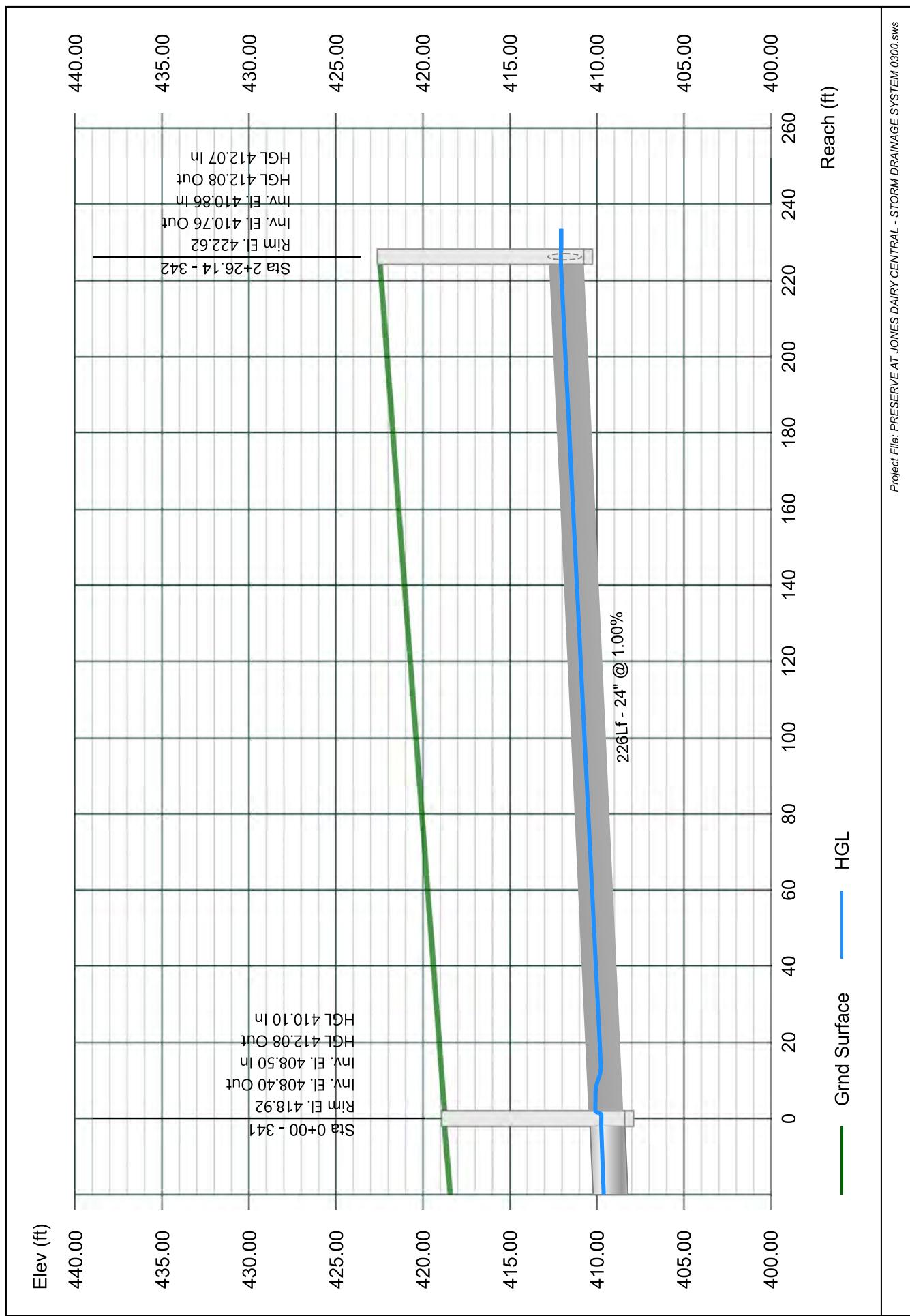


Line 32 - 342 TO 341

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

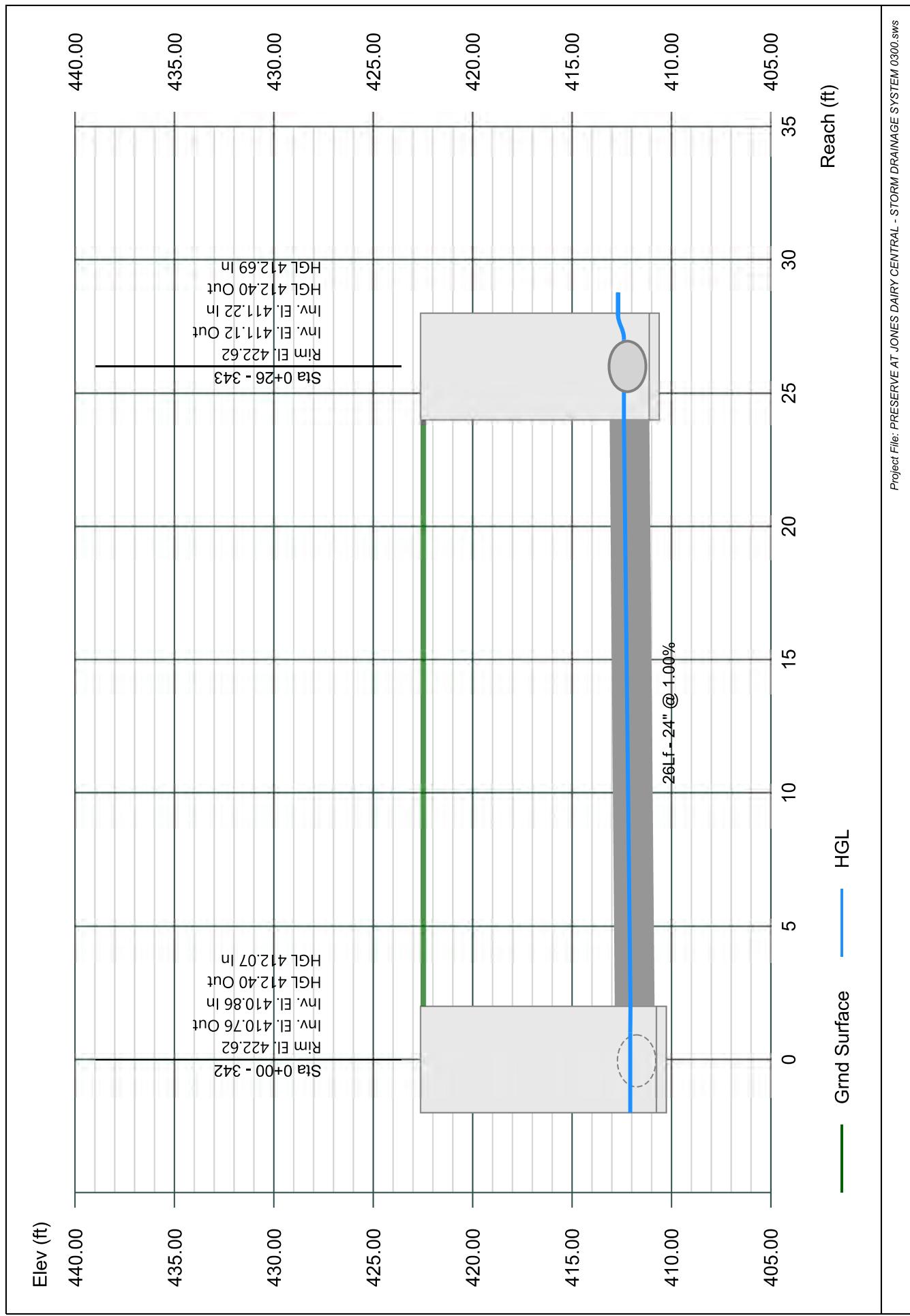


Line 33 - 343 TO 342

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

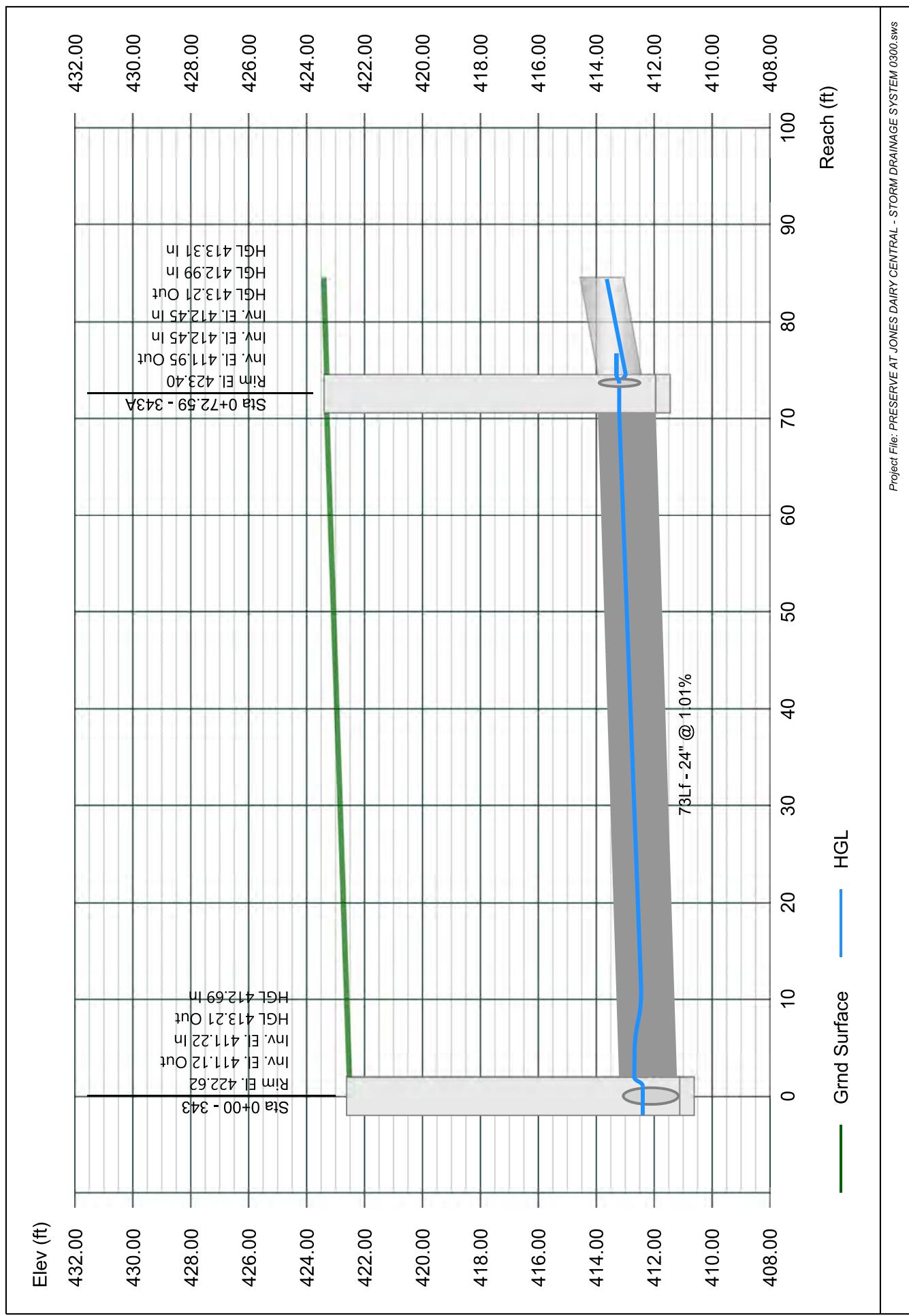


Line 34 - 343A TO 343

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

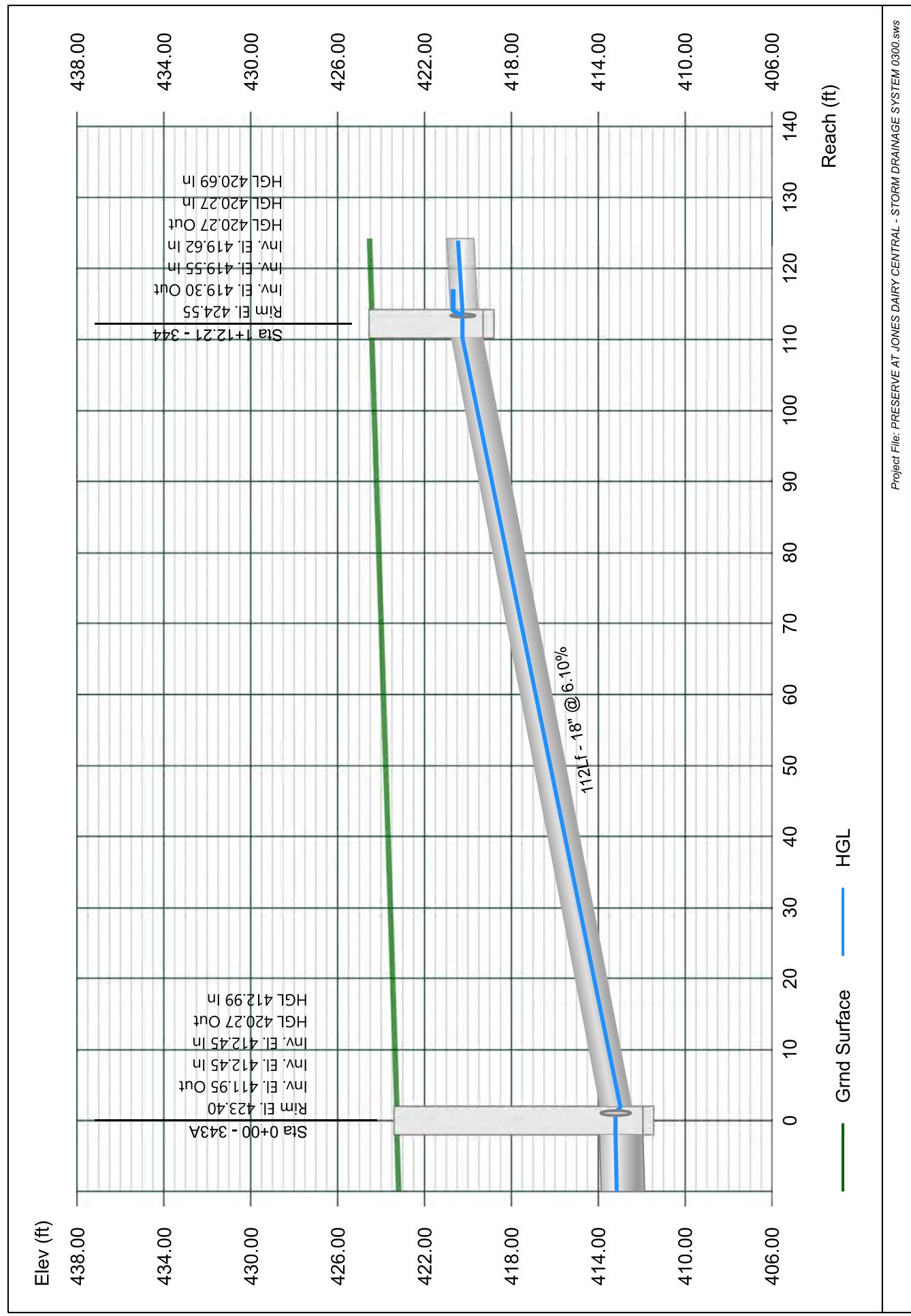
05-03-2023



Line 35 - 344 TO 343

Project Name: Enter Project Name...

05-03-2023

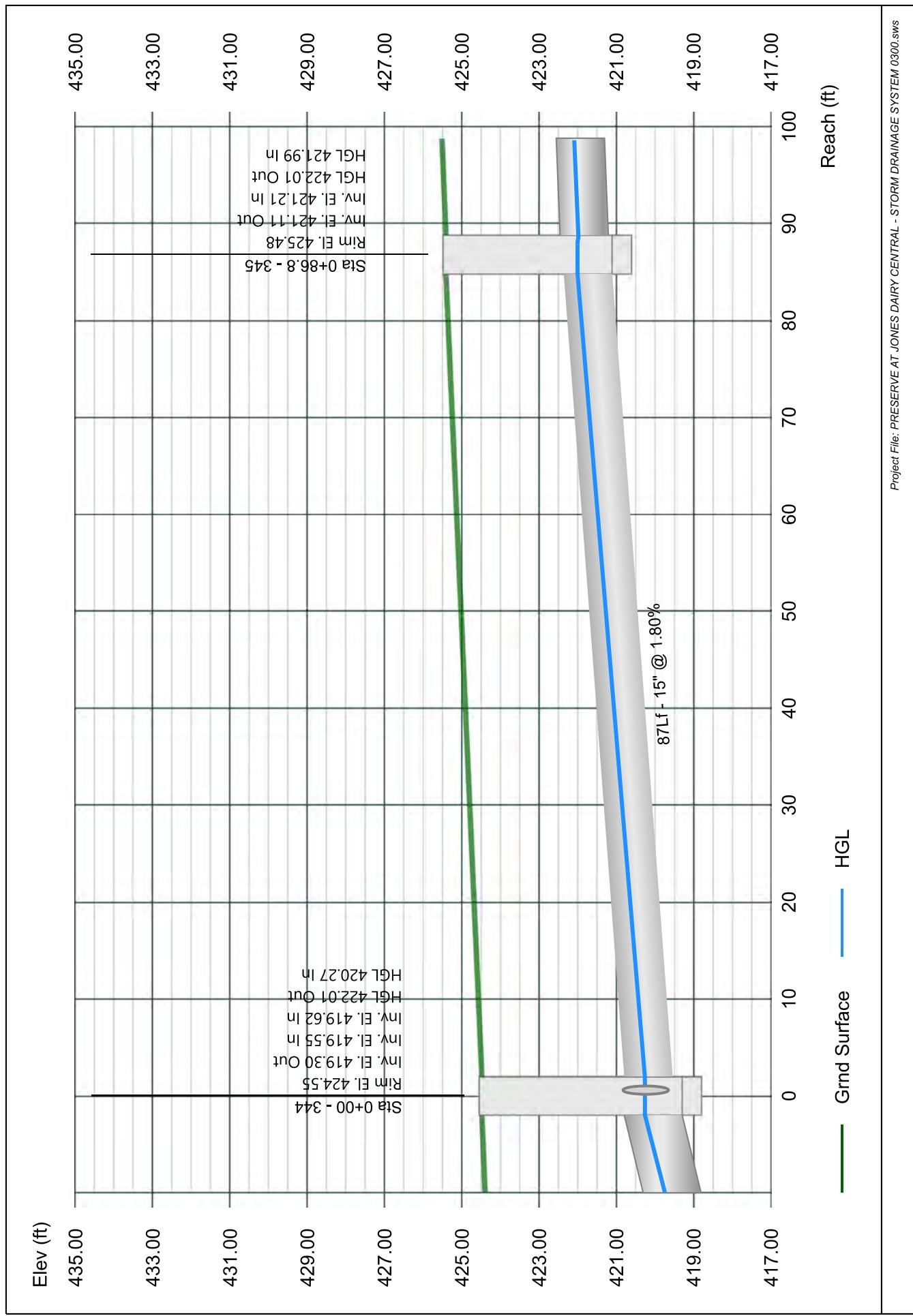


Line 36 - 345 TO 344

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

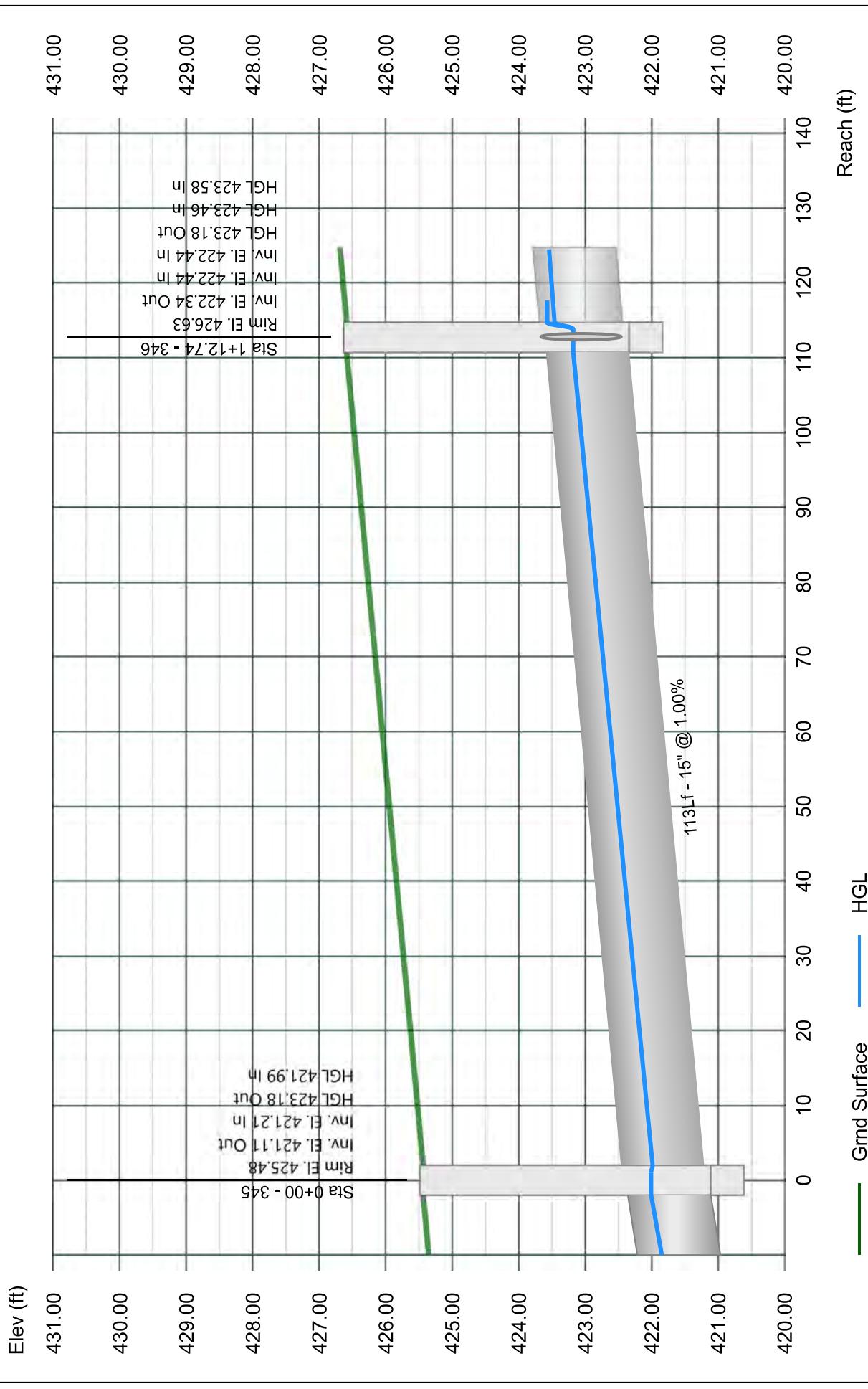


Line 37 - 346 TO 345

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

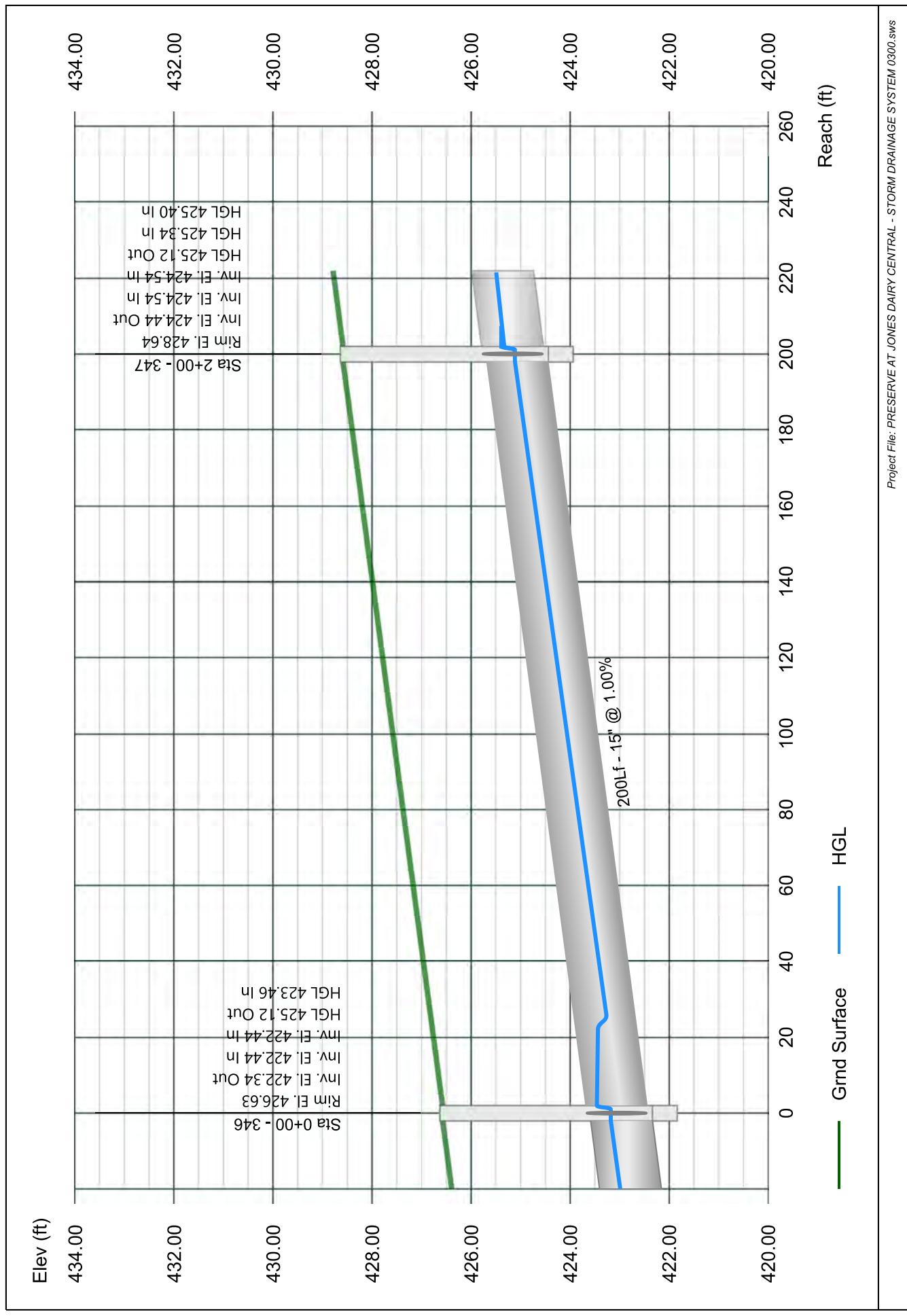


Line 38 - 347 TO 346

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

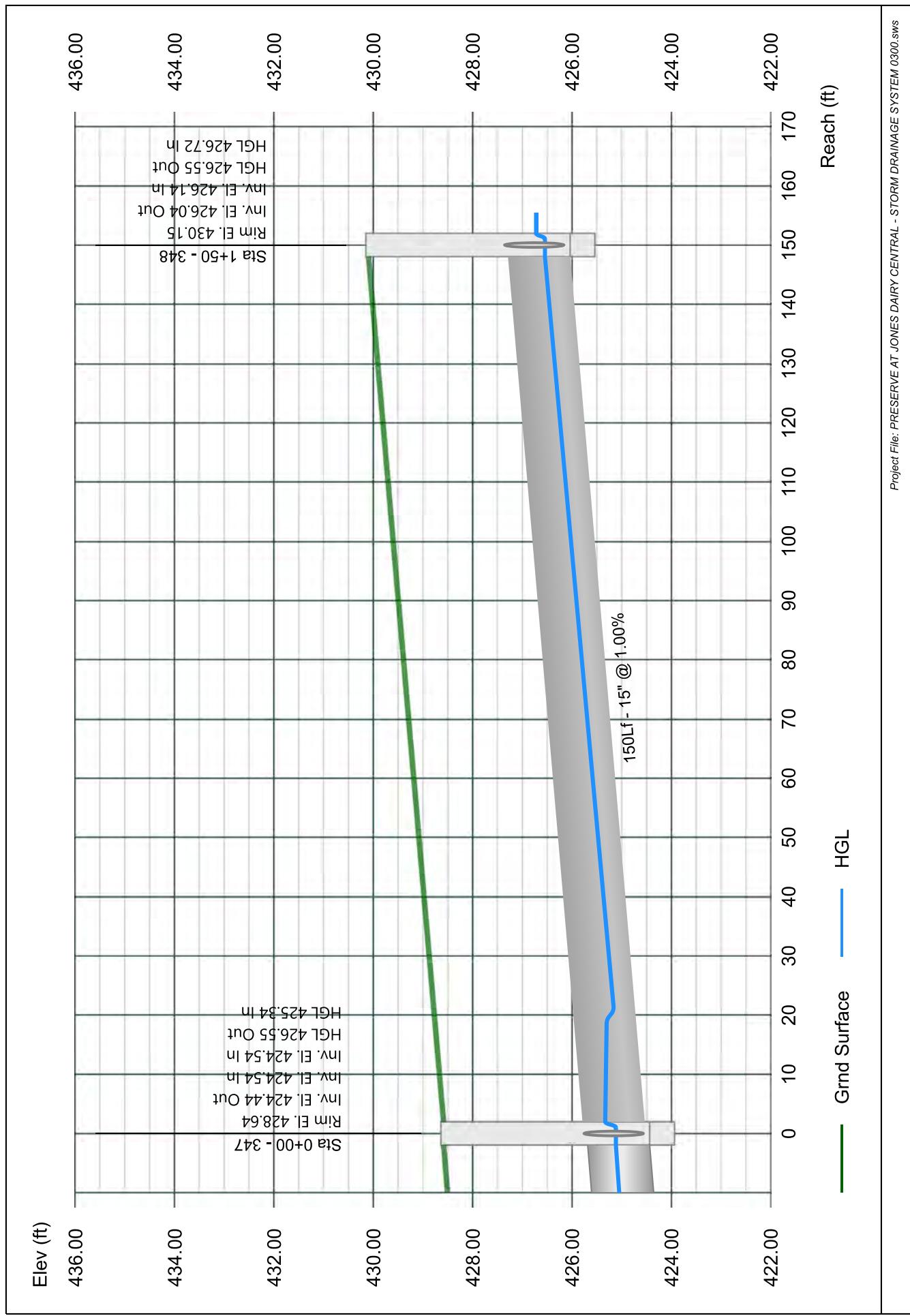


Line 39 - 348 TO 347

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

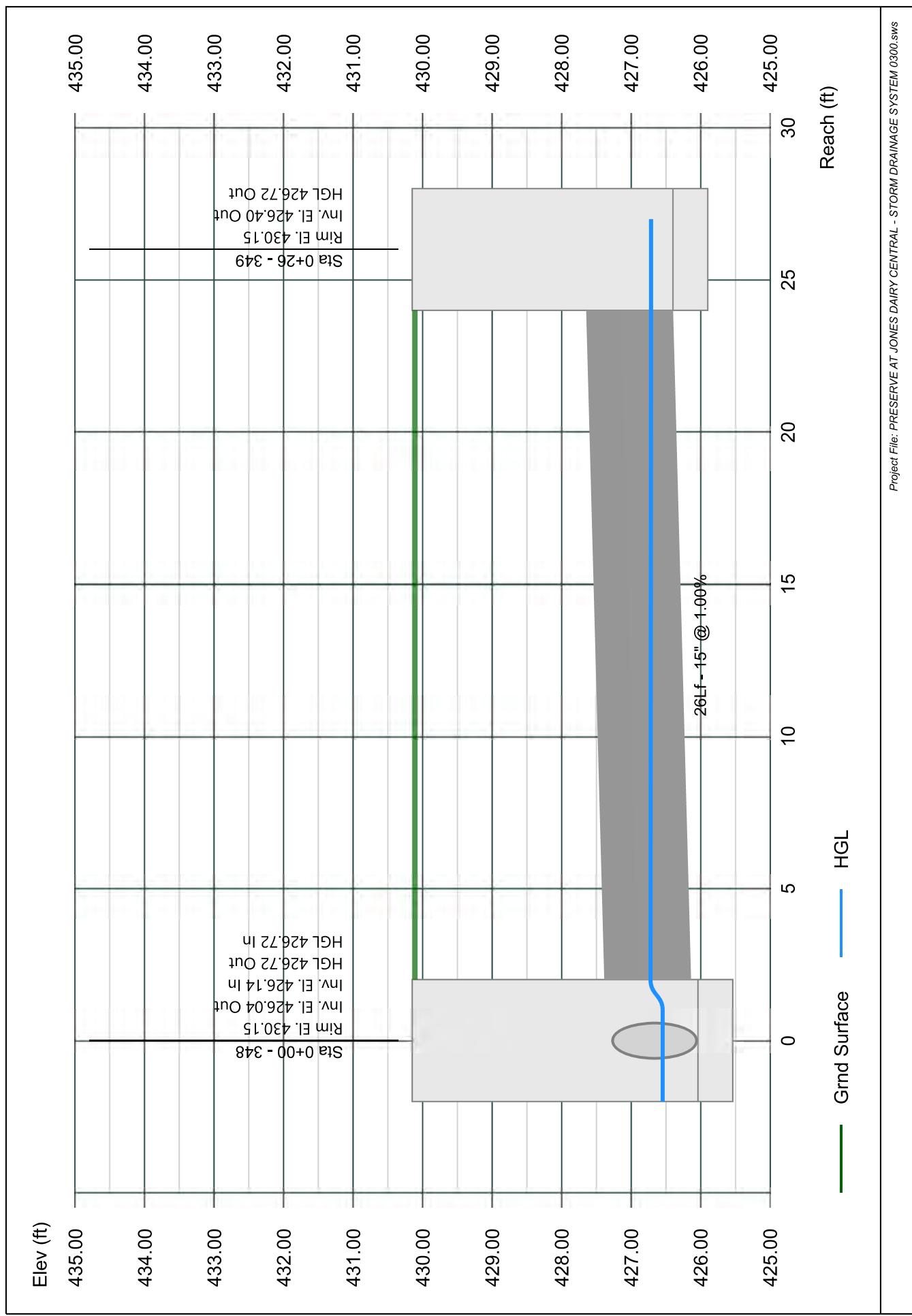


Line 40 - 349 TO 348

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

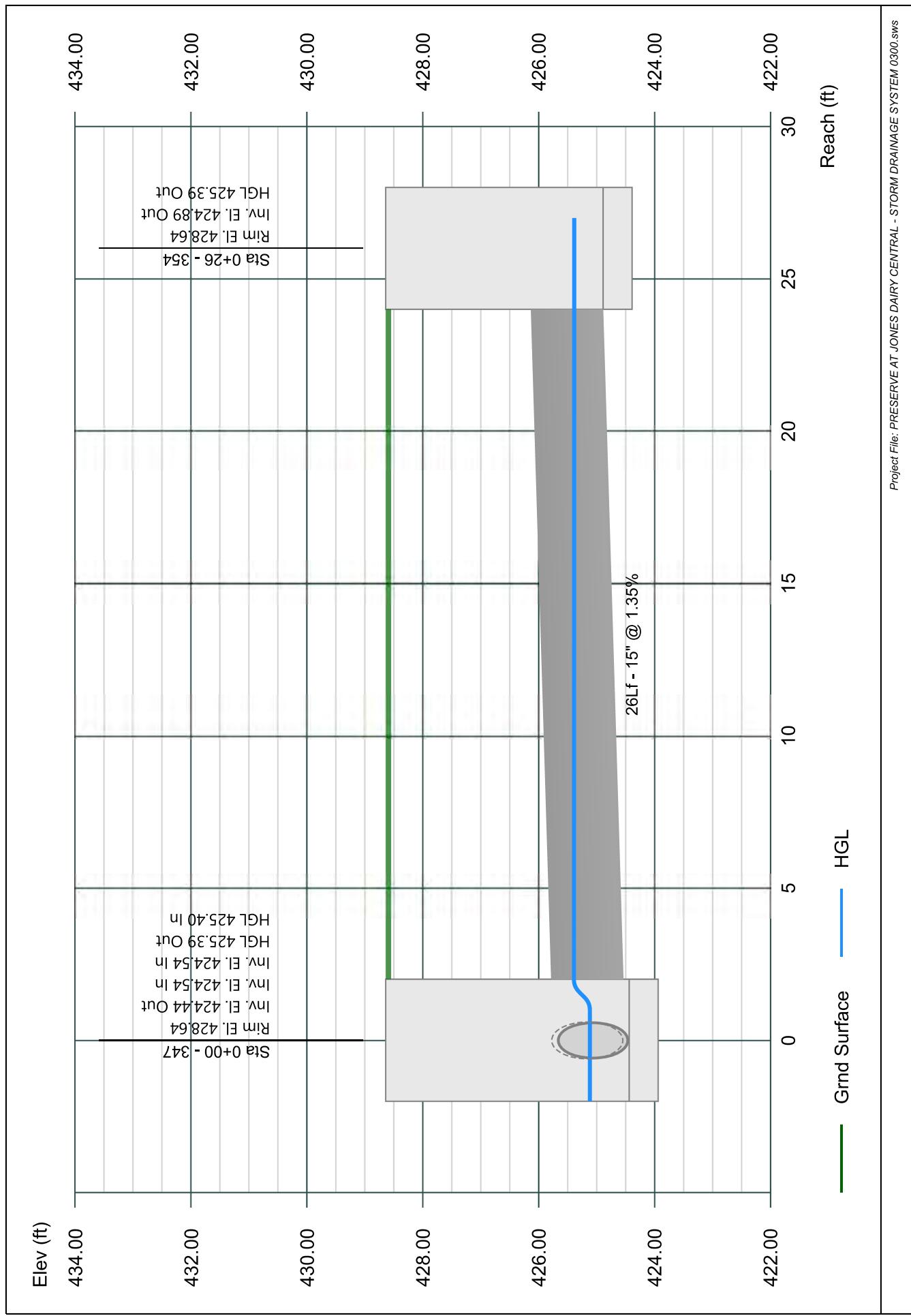


Line 41 - 354 TO 347

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

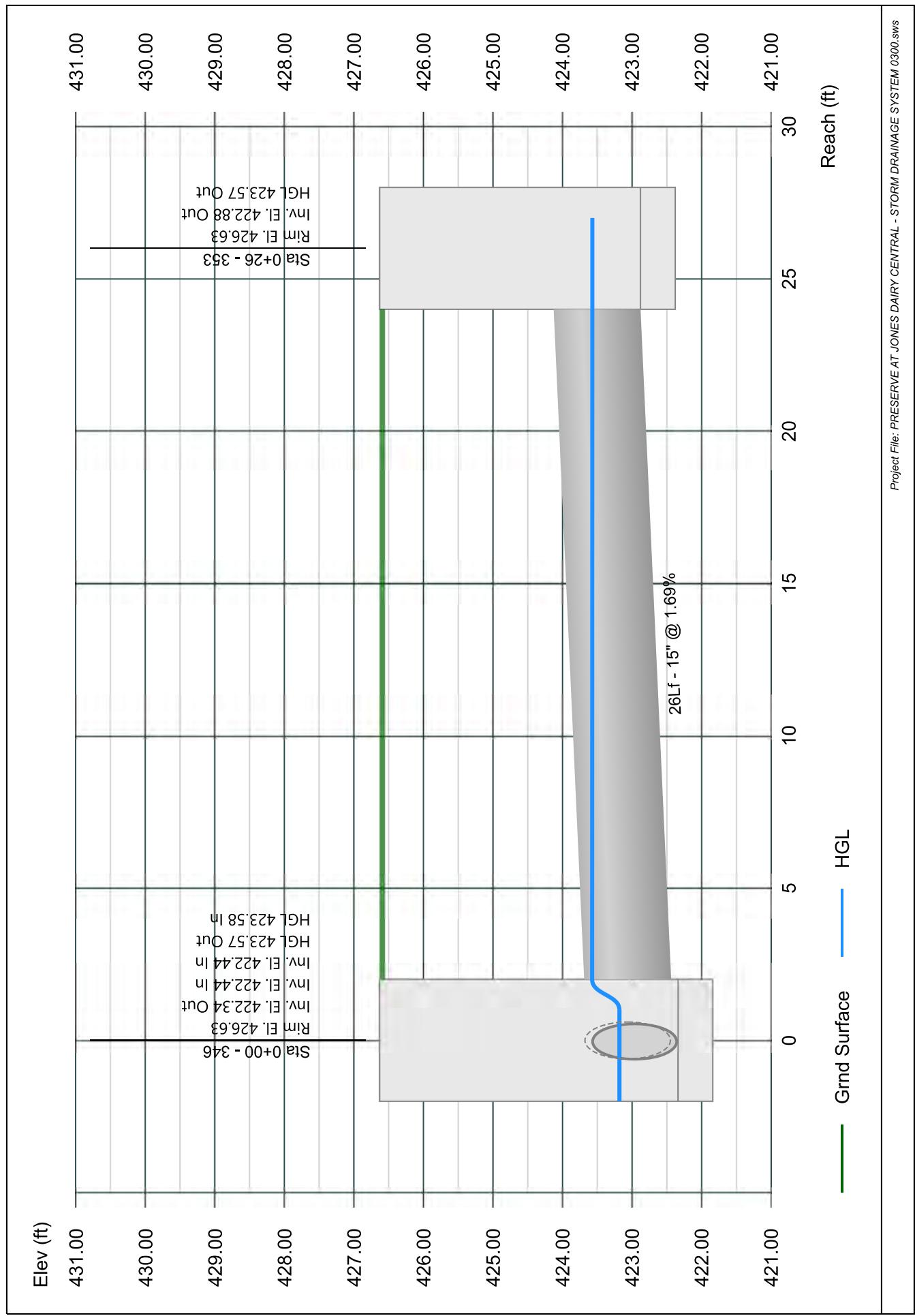


Line 42 - 353 TO 346

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

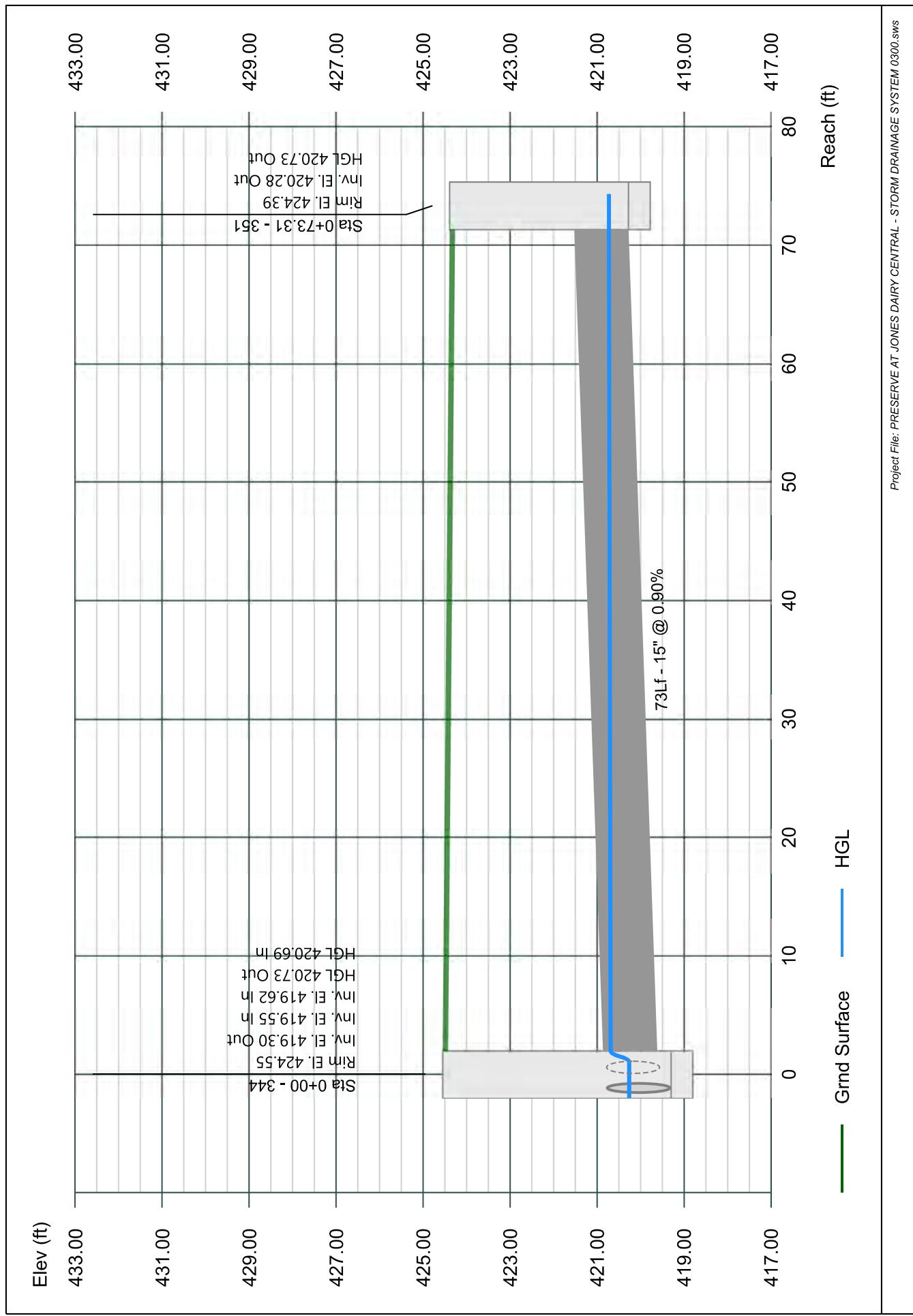


Line 43 - 351 TO 344

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

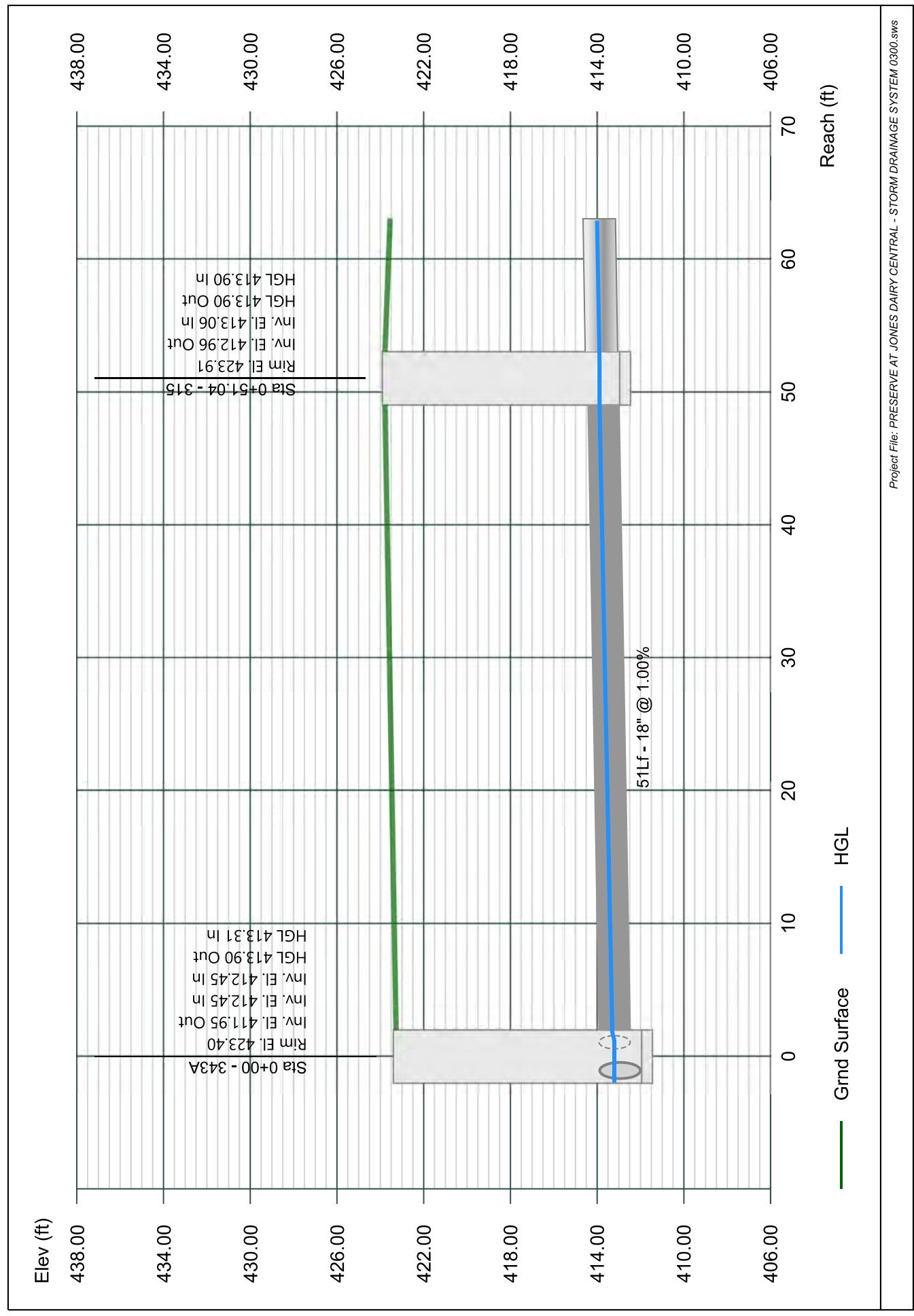


Line 44 - 315 TO 343A

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

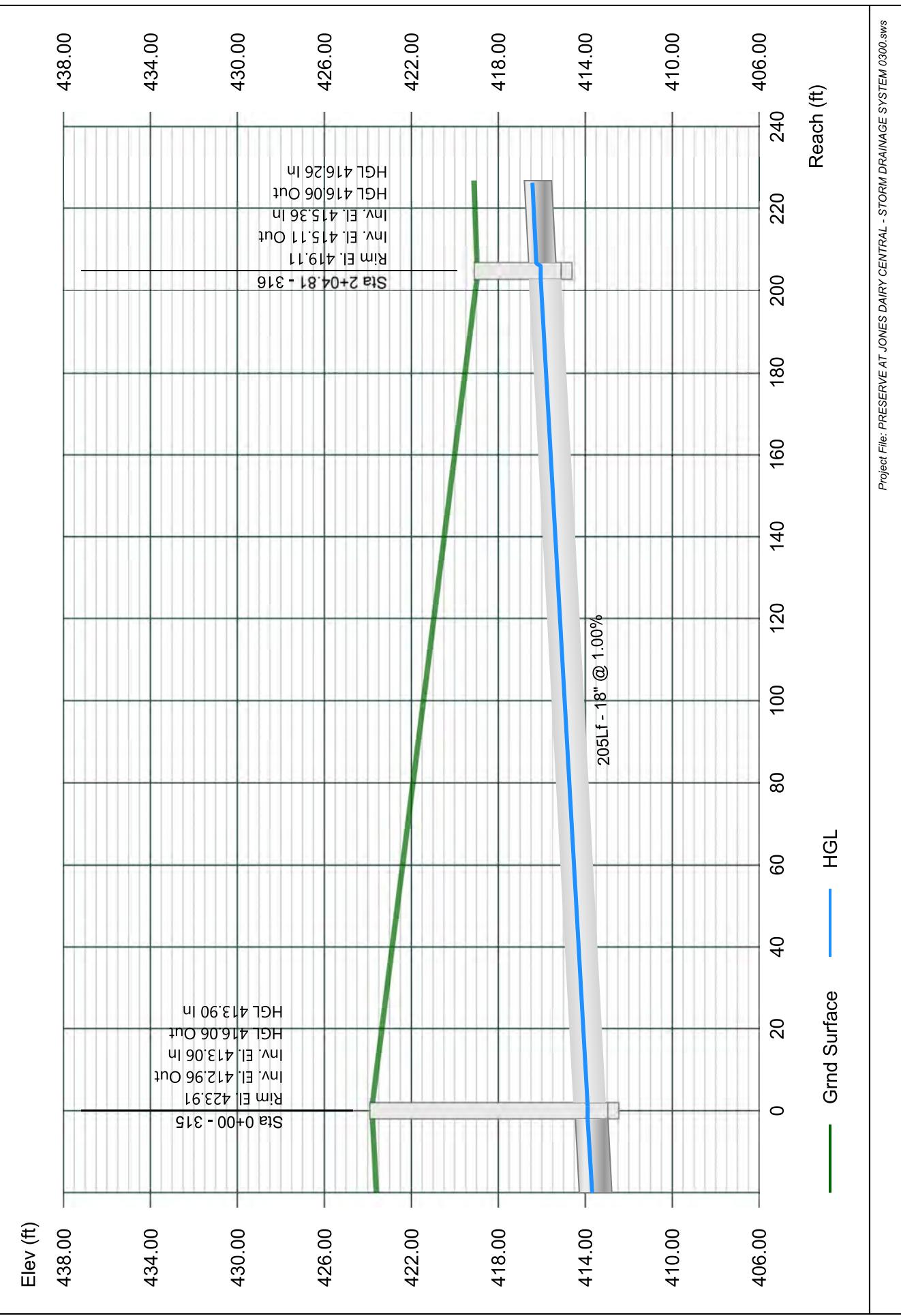


Line 45 - 316 TO 315

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

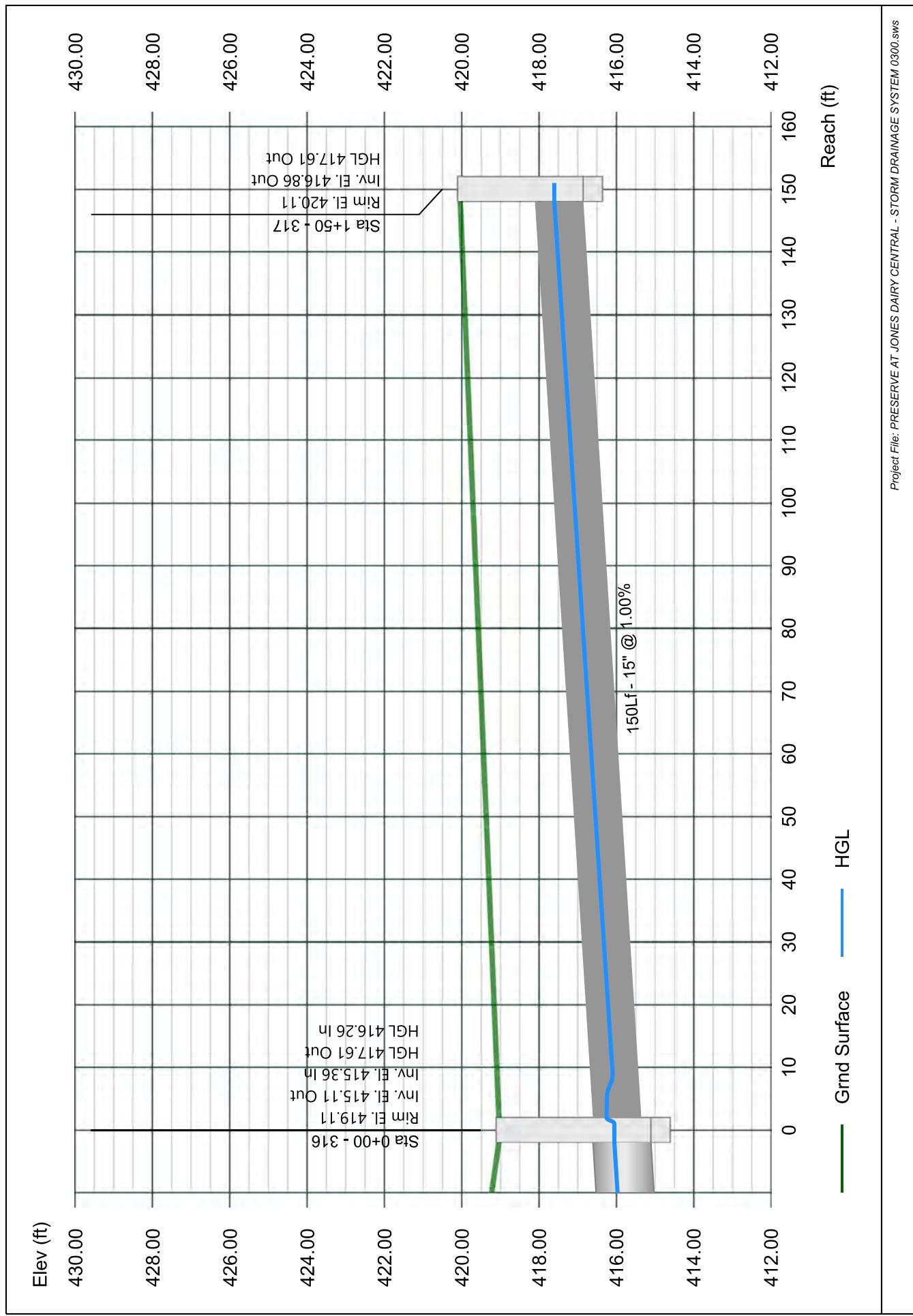


Line 46 - 317 TO 316

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

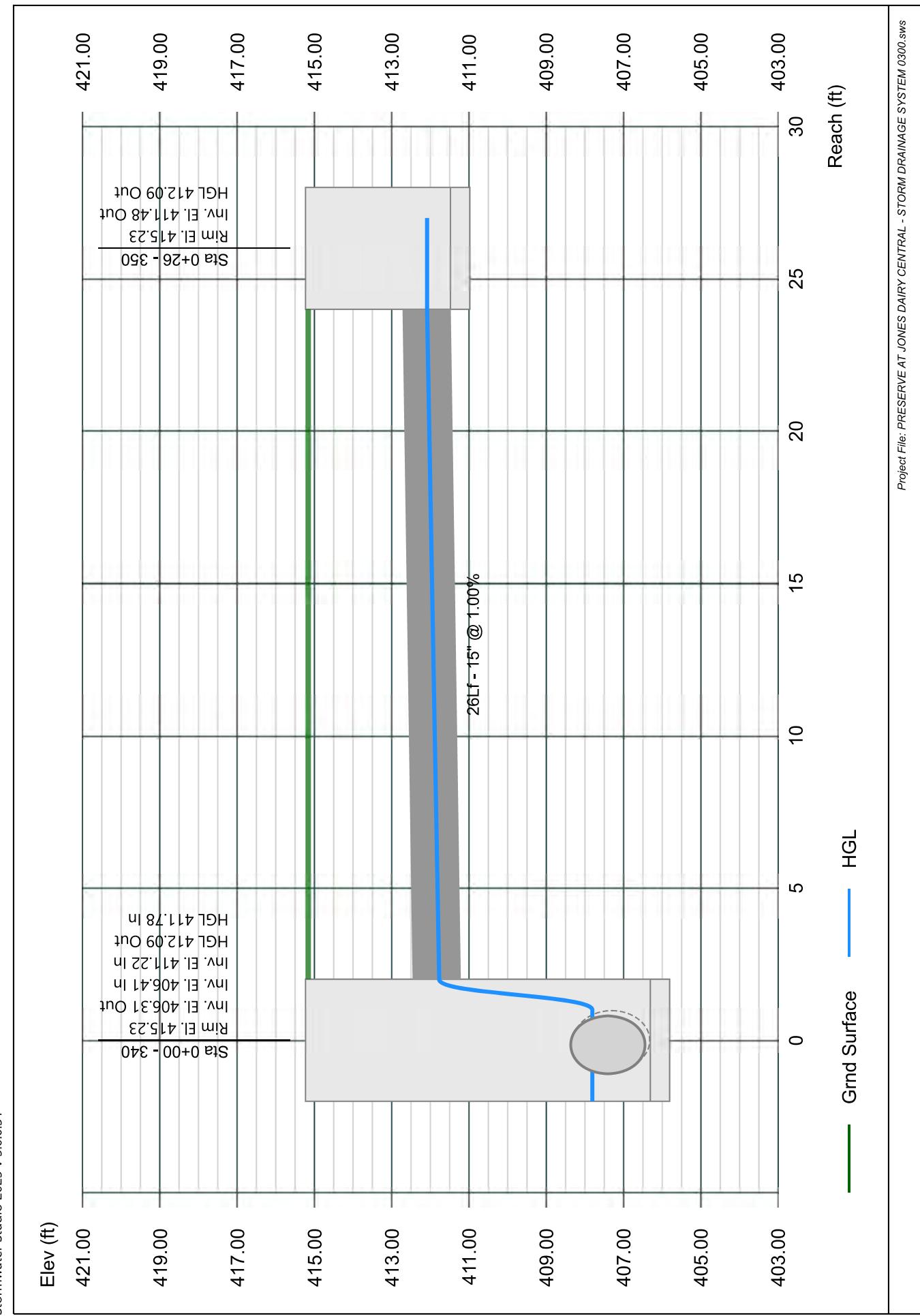


Line 47 - 350 TO 340

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

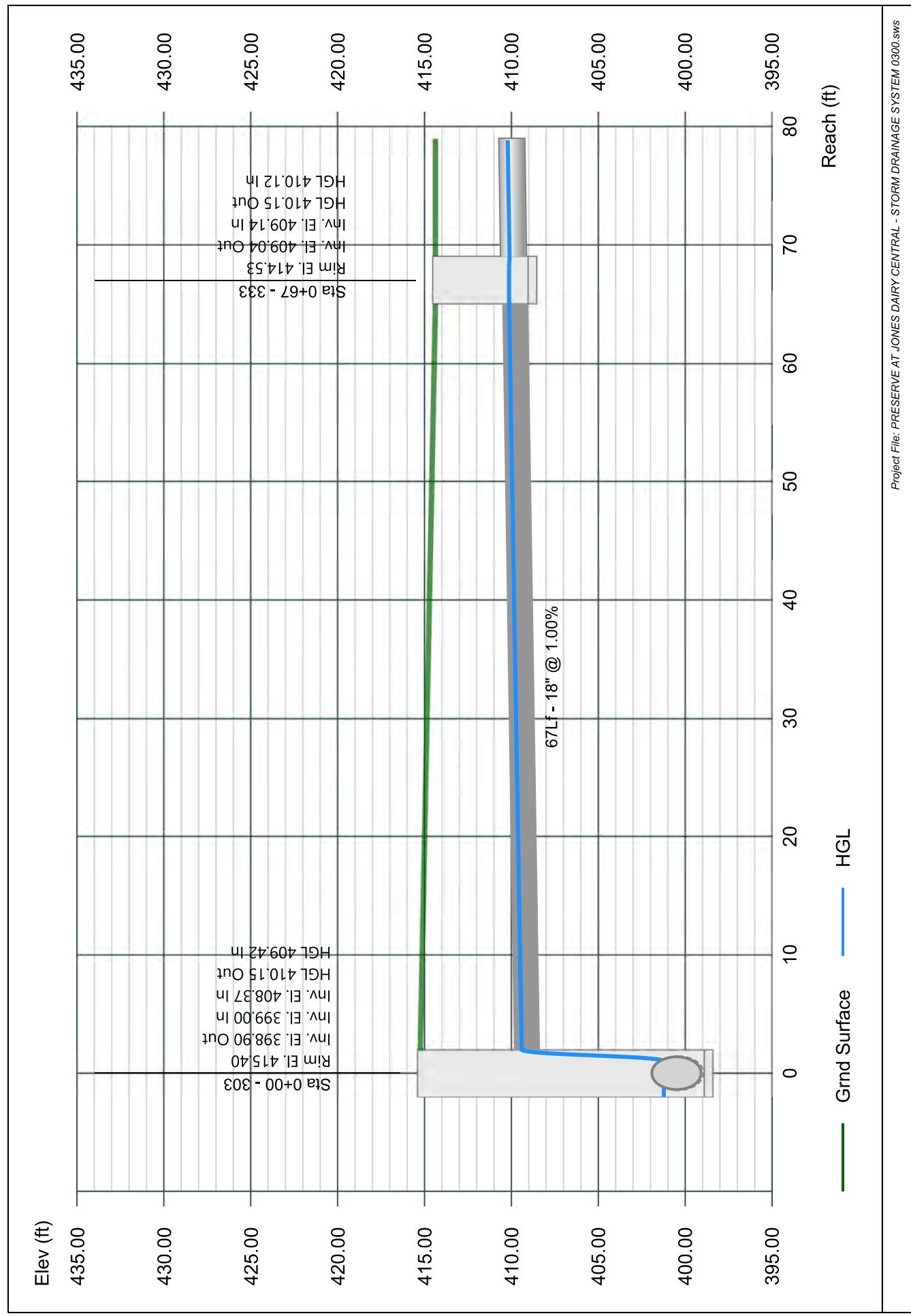
05-03-2023



Line 48 - 333 TO 303

Project Name: Enter Project Name...

05-03-2023

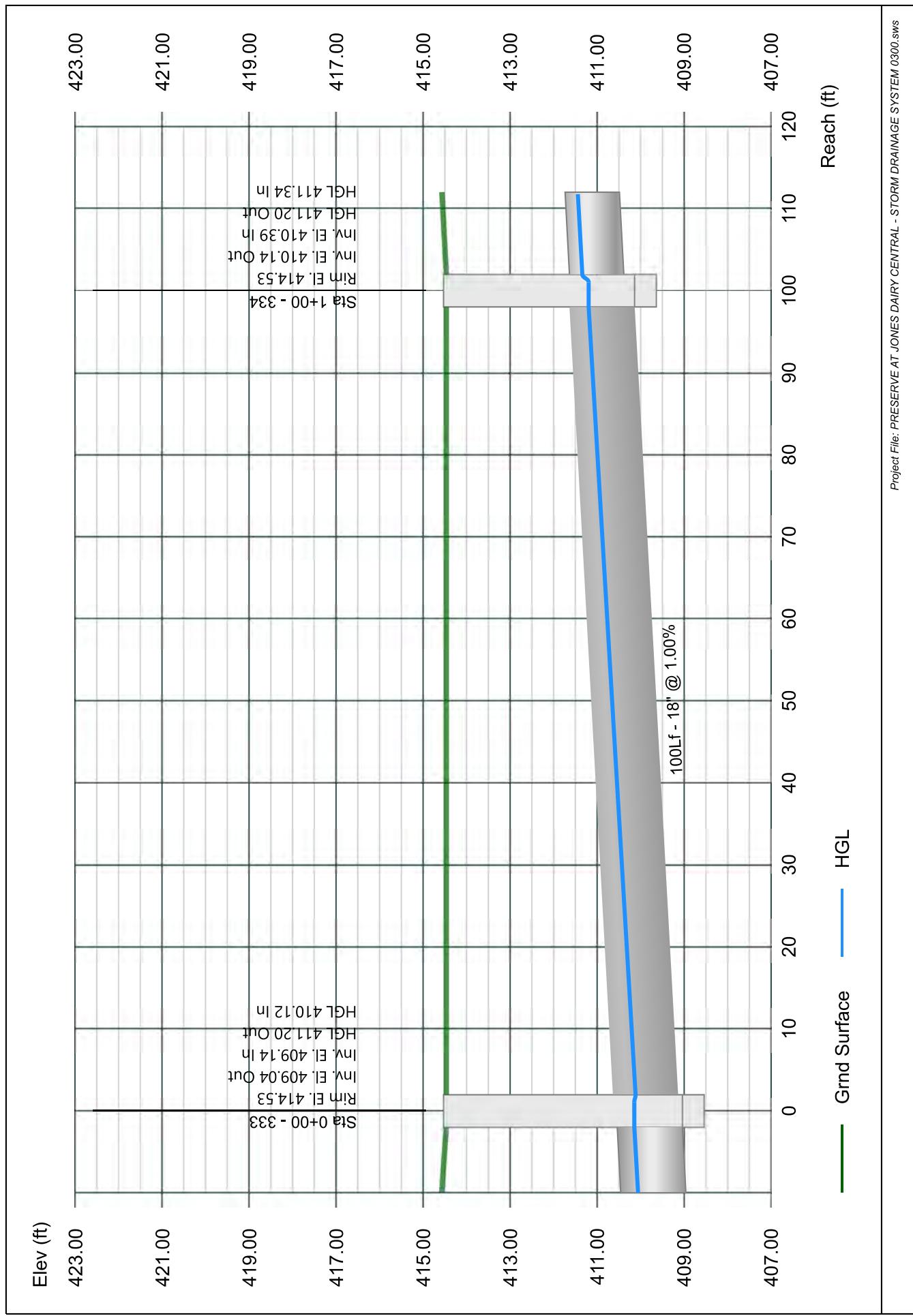


Line 49 - 334 TO 333

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

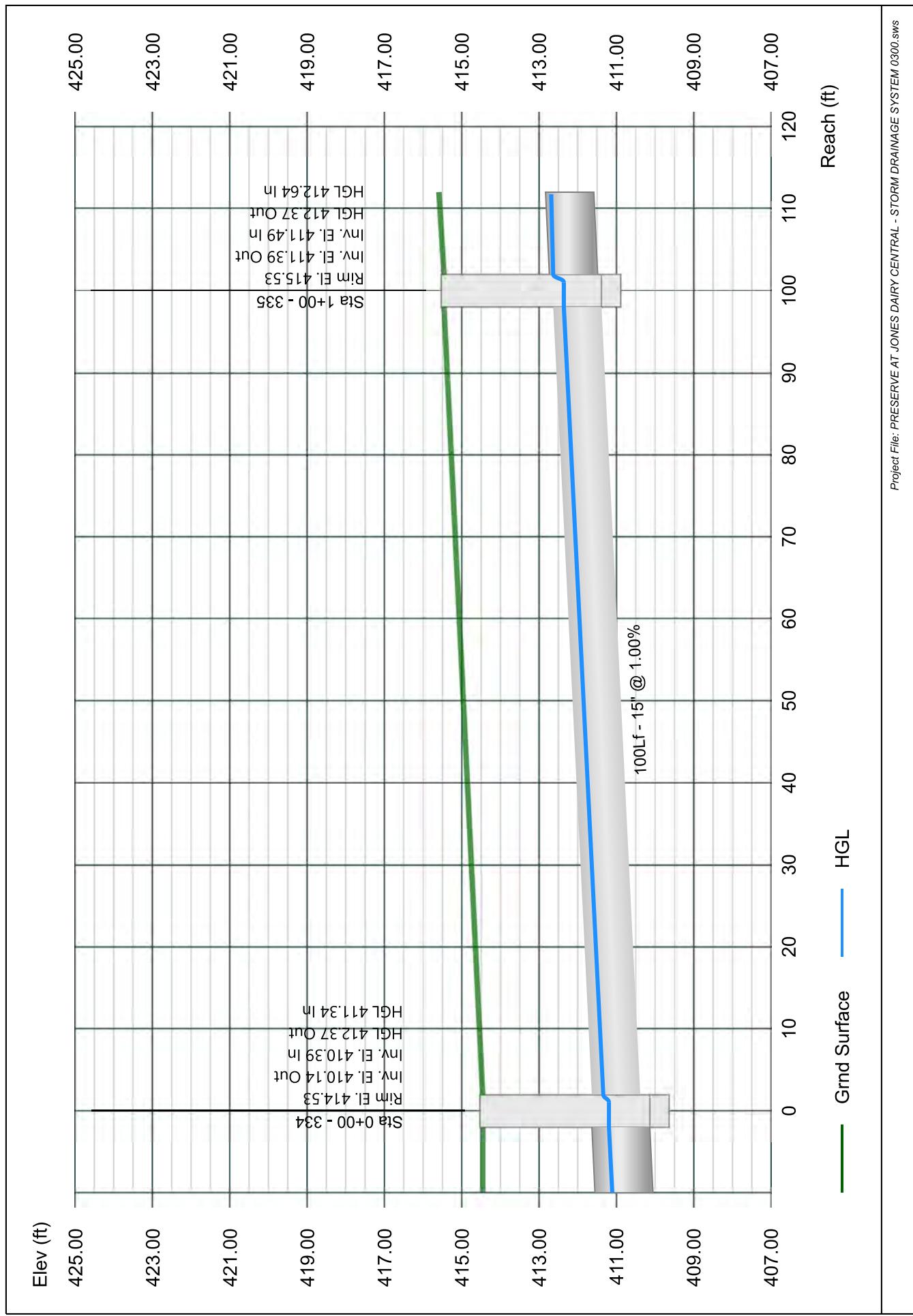


Line 50 - 335 TO 334

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

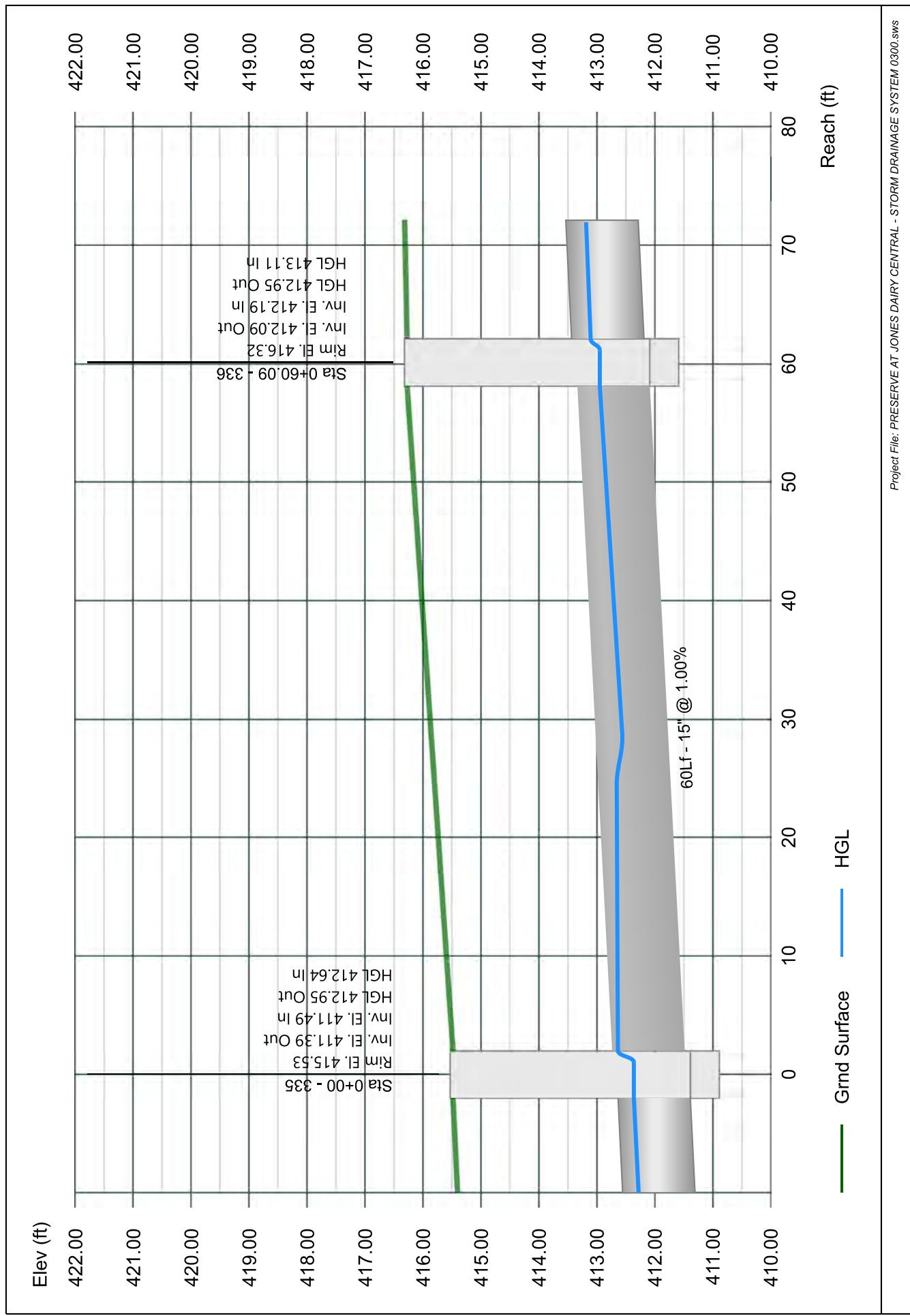


Line 51 - 336 TO 335

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

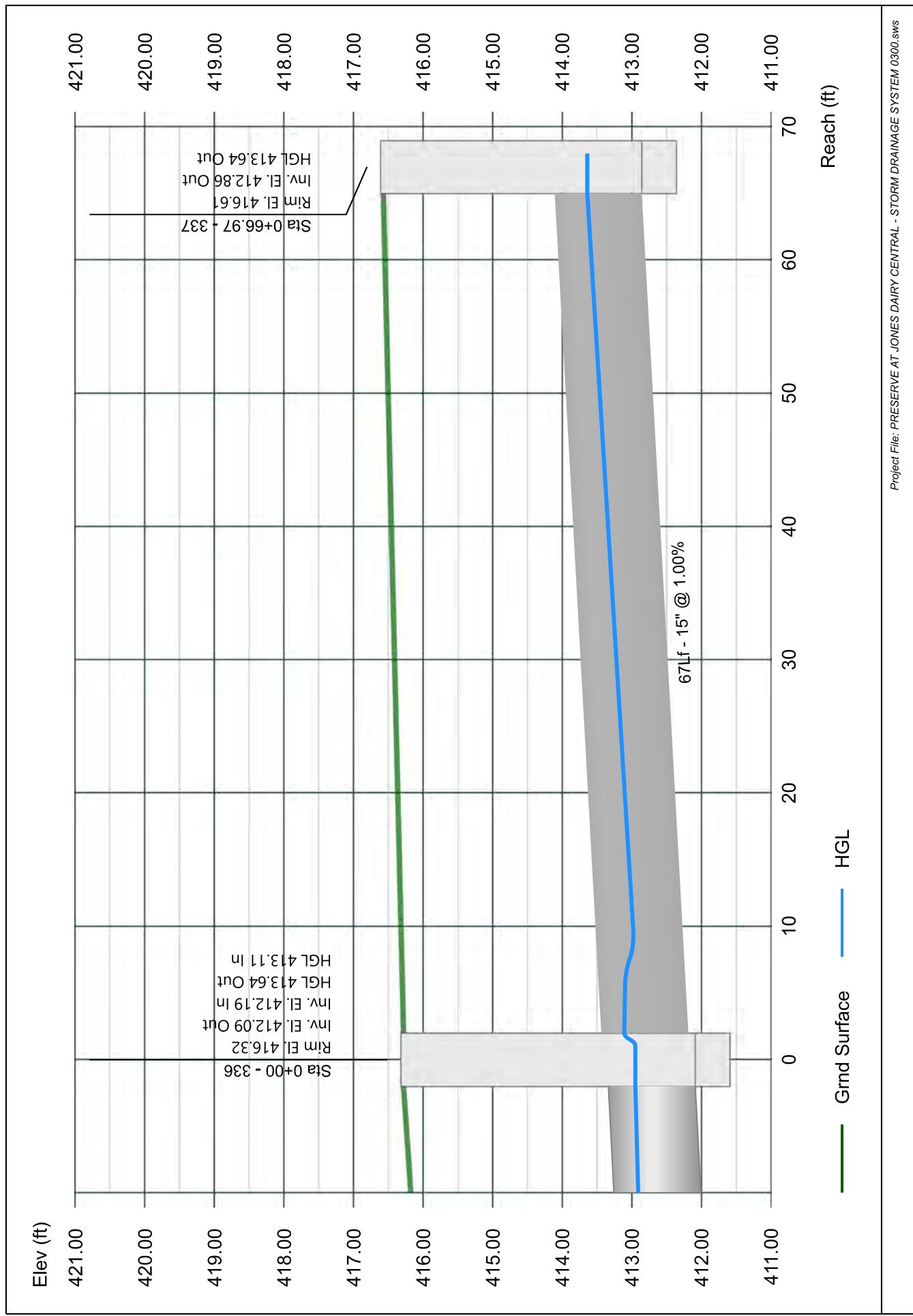


Line 52 - 337 TO 336

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

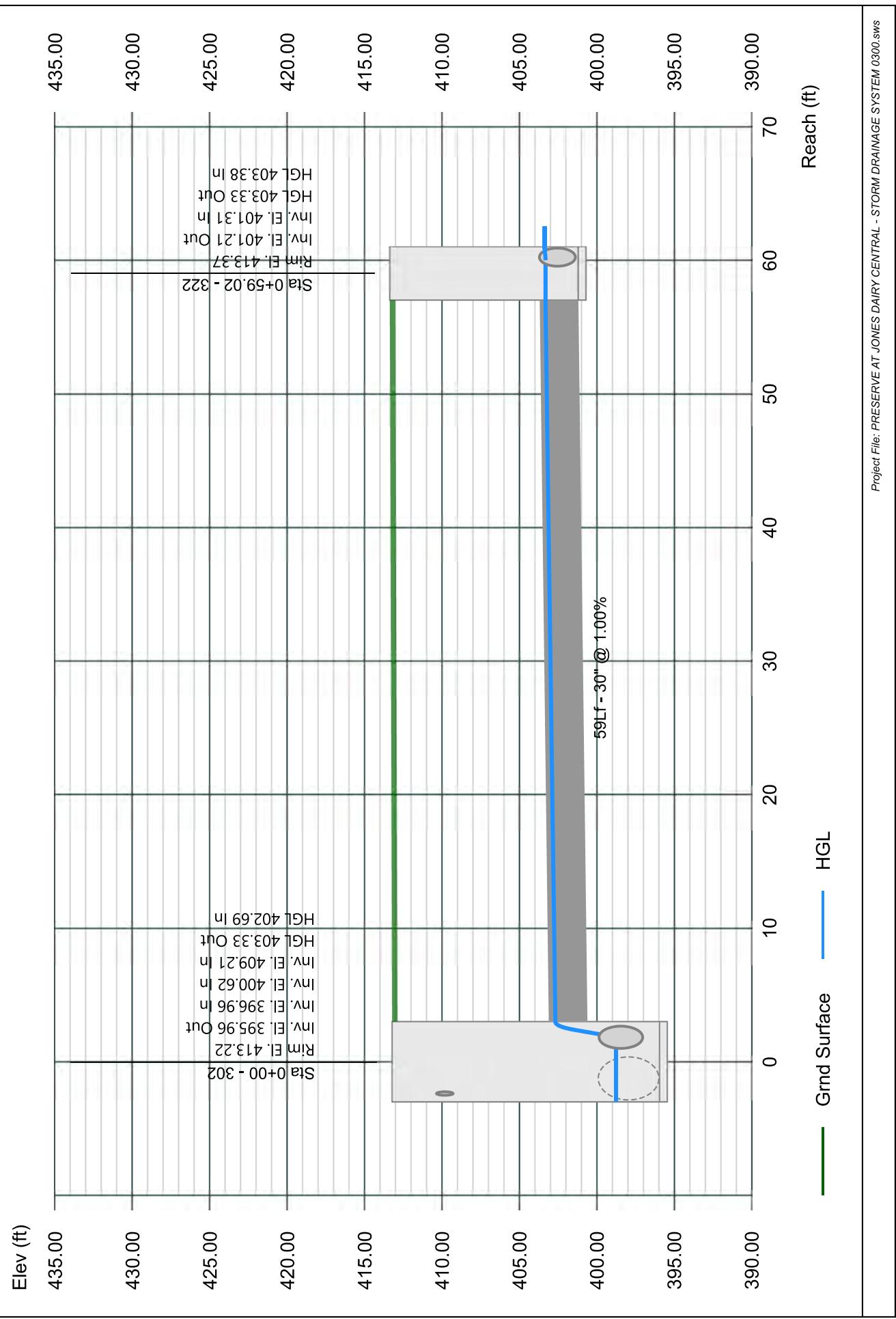


Line 53 - 322 TO 302

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

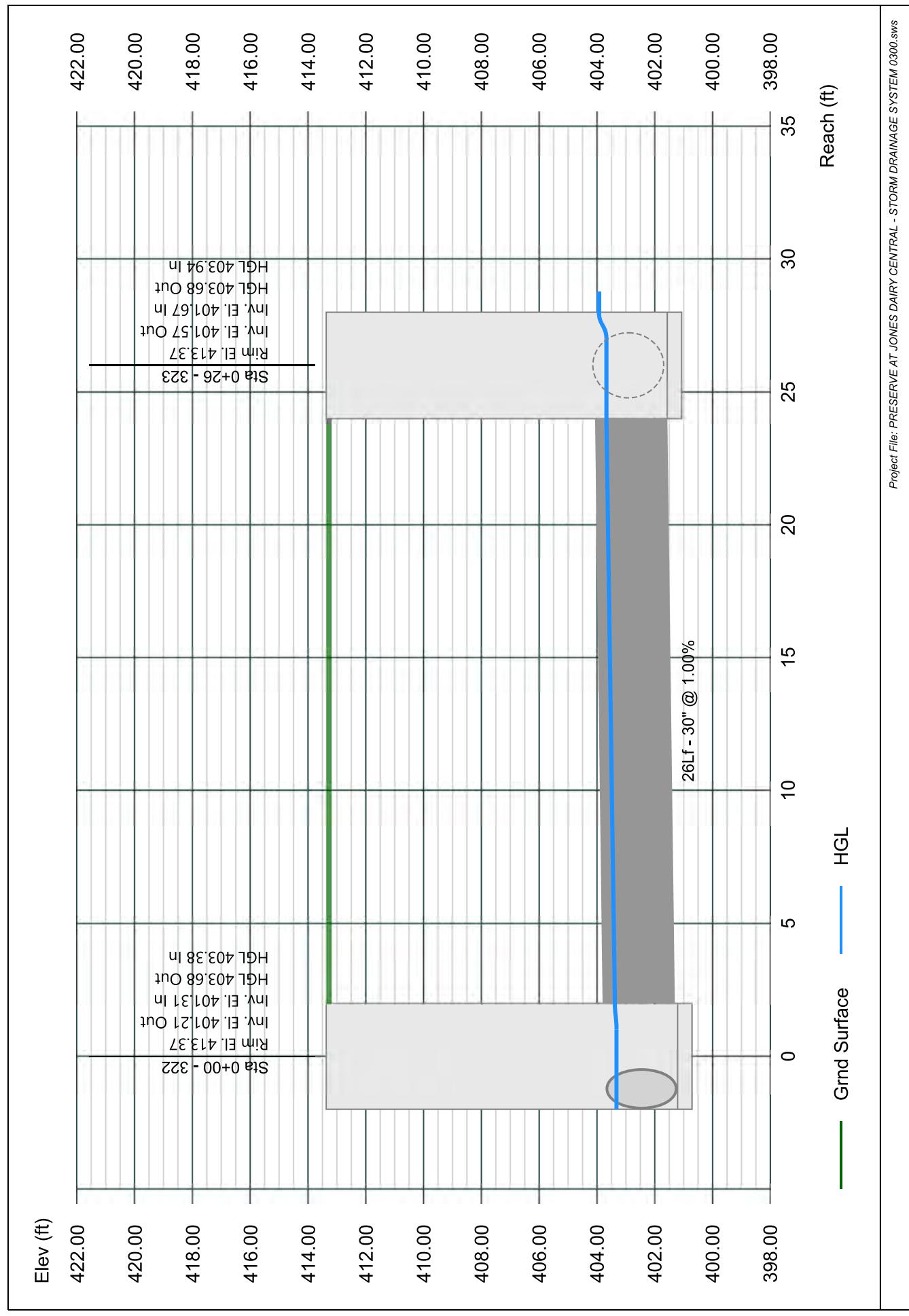


Line 54 - 323 TO 322

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

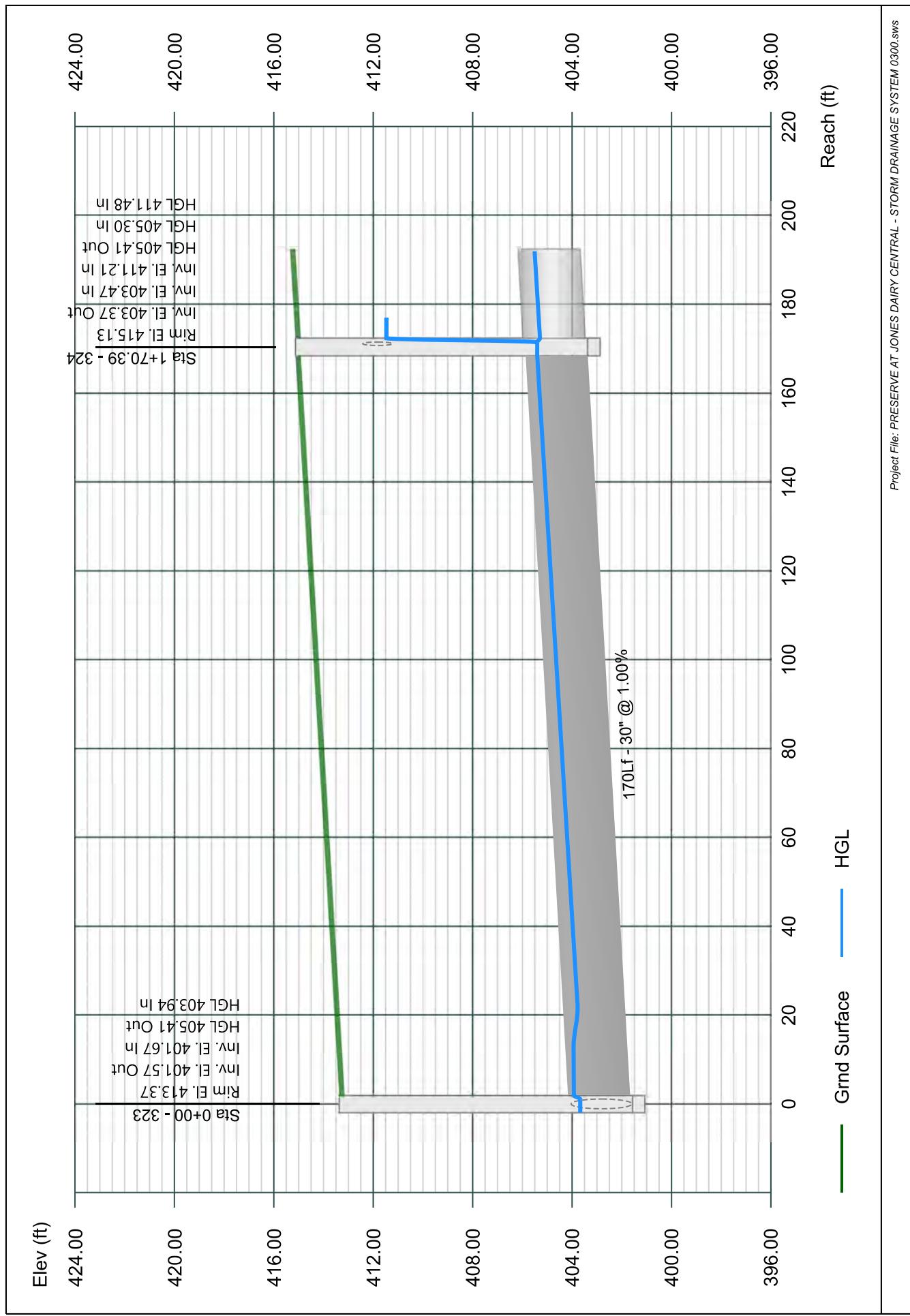


Line 55 - 324 TO 323

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

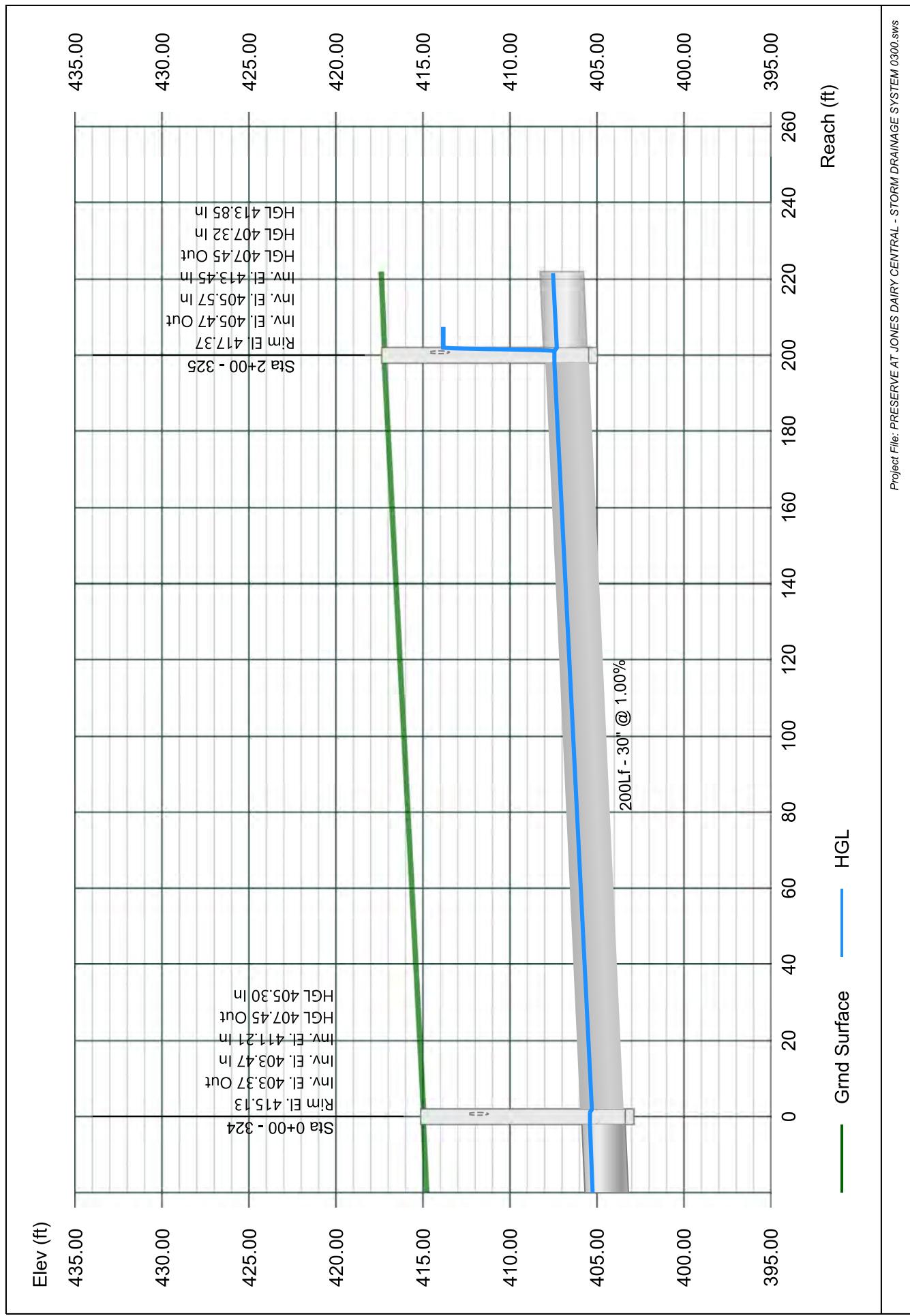


Line 56 - 325 TO 324

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

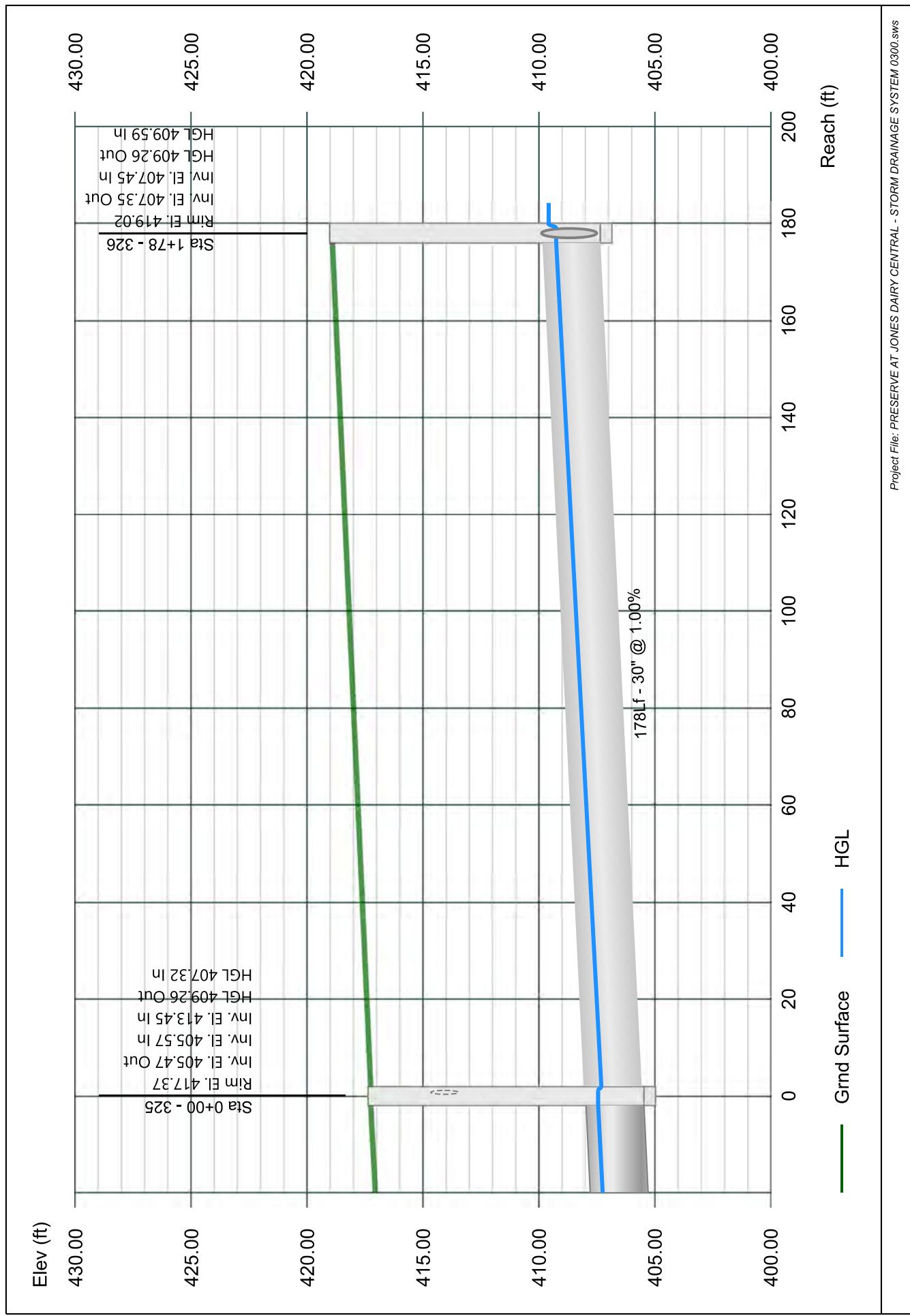


Line 57 - 326 TO 325

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

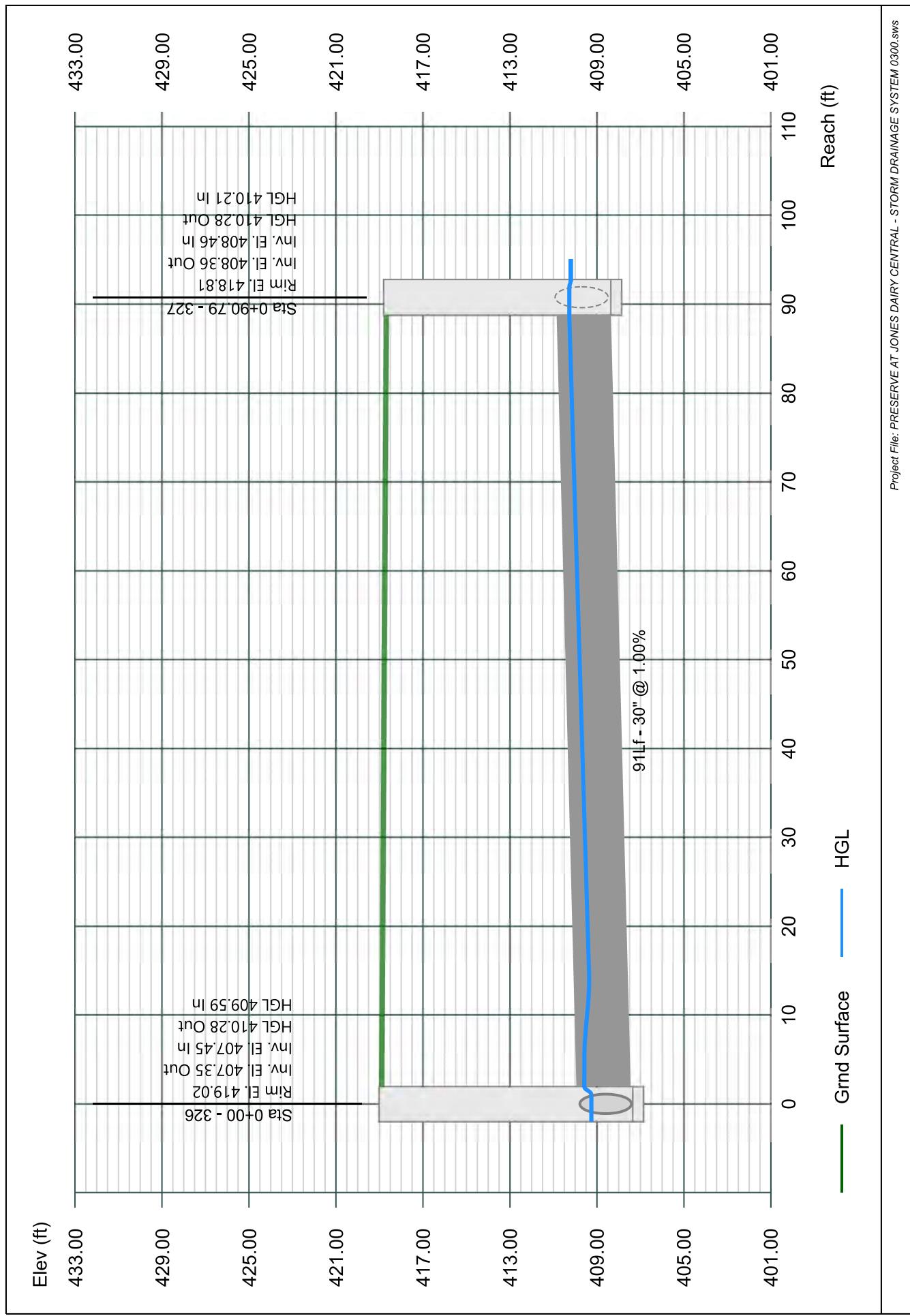


Line 58 - 327 TO 326

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

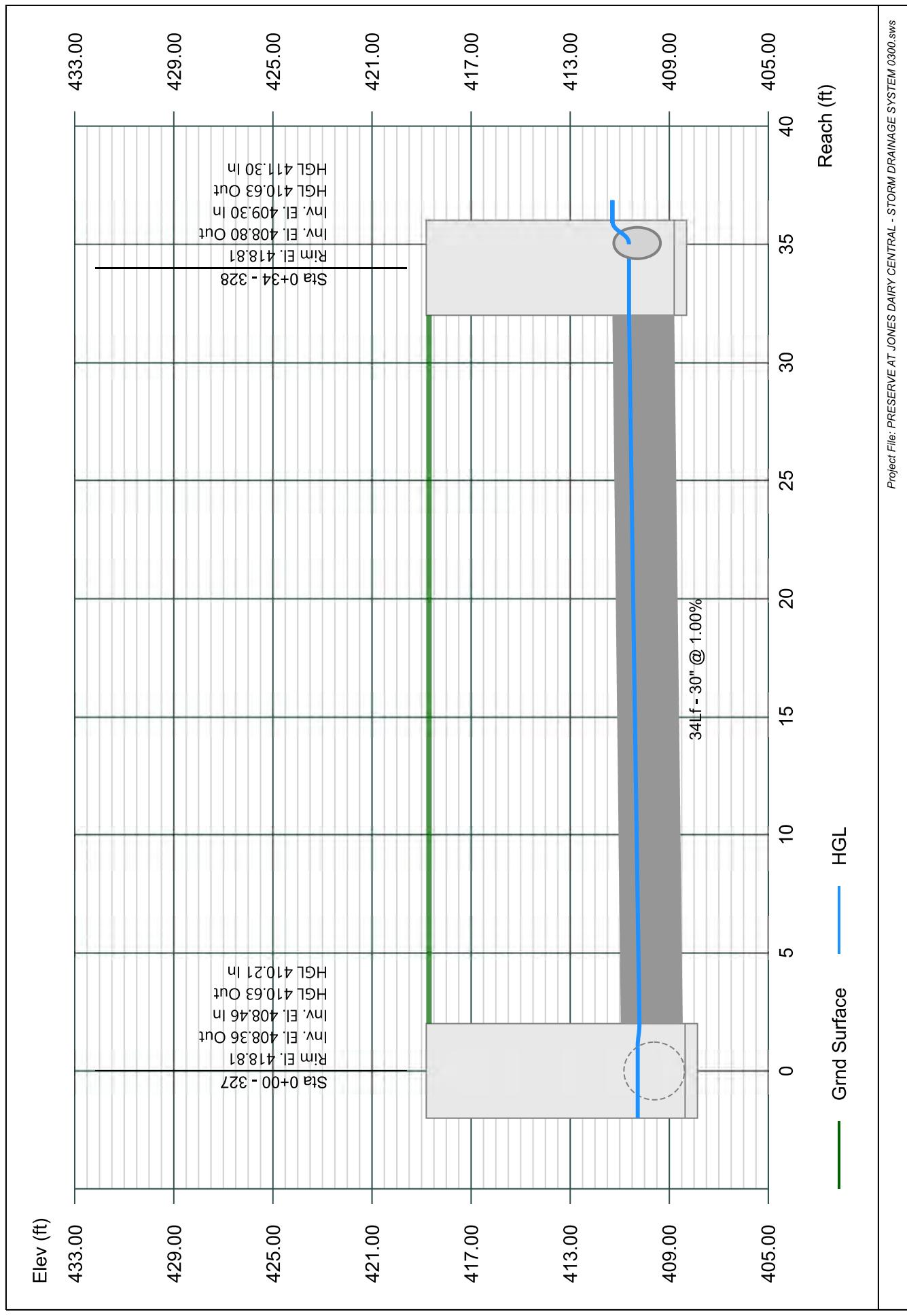


Line 59 - 328 TO 327

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

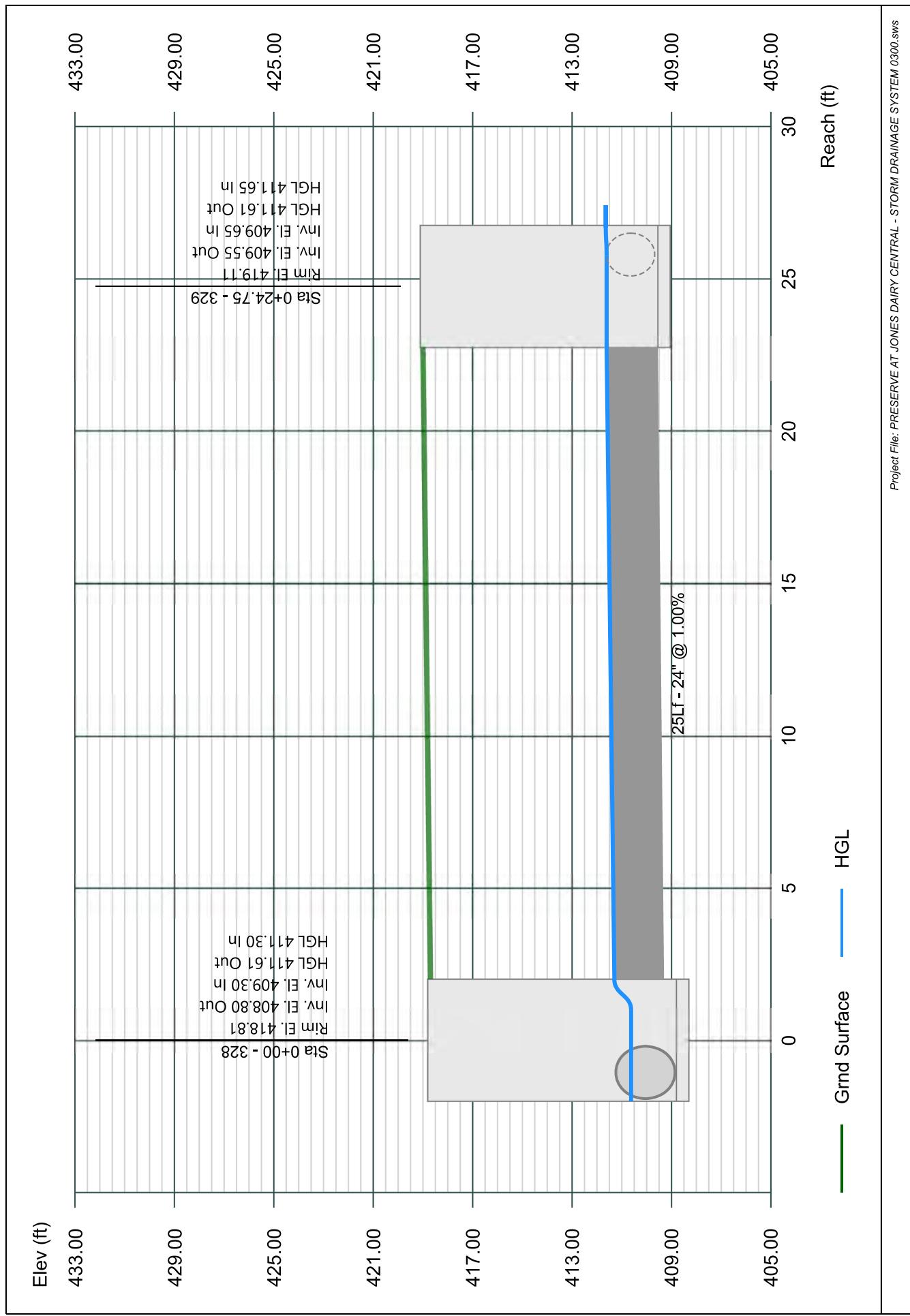


Line 60 - 329 TO 328

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

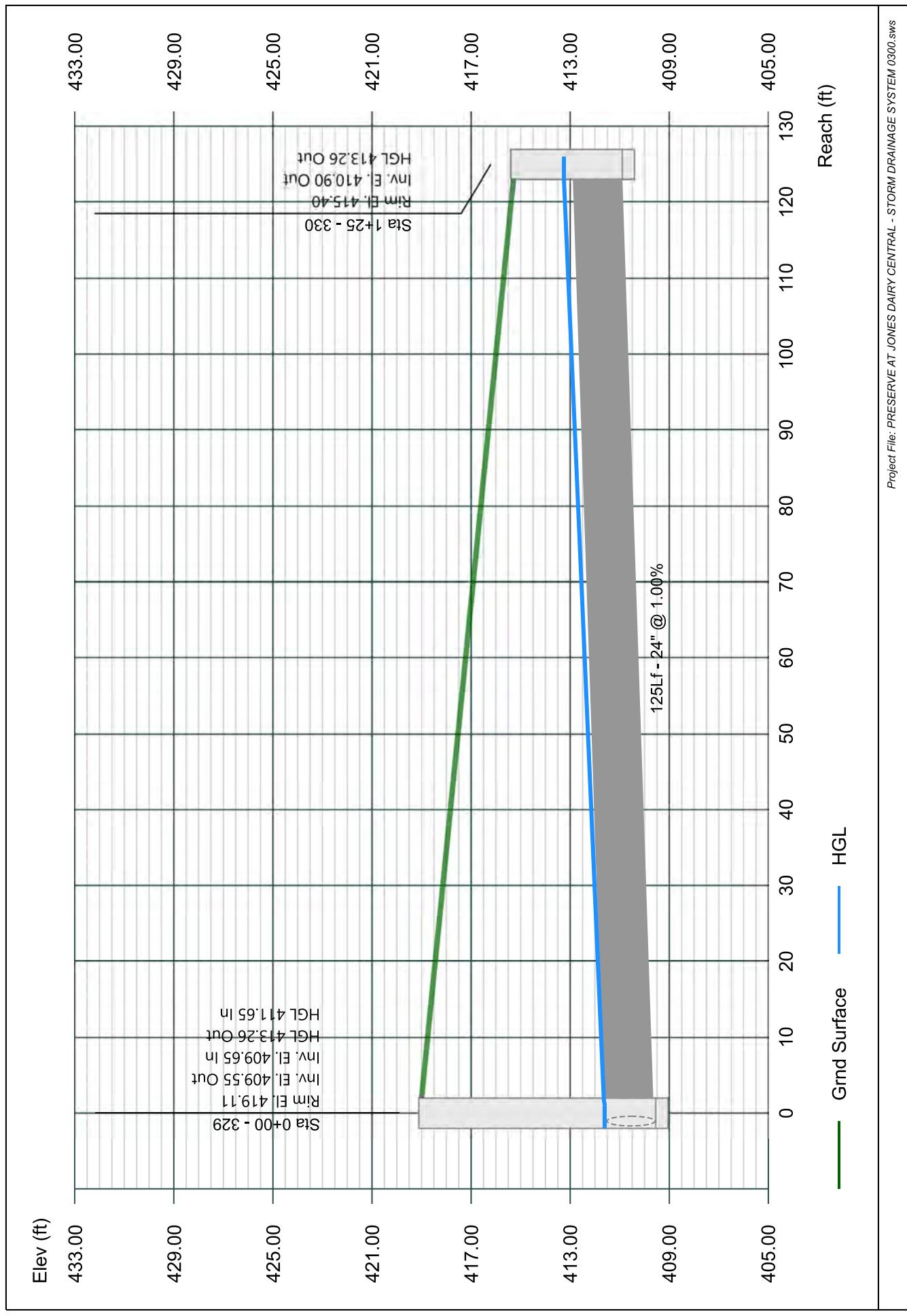


Line 61 - 330 TO 329

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

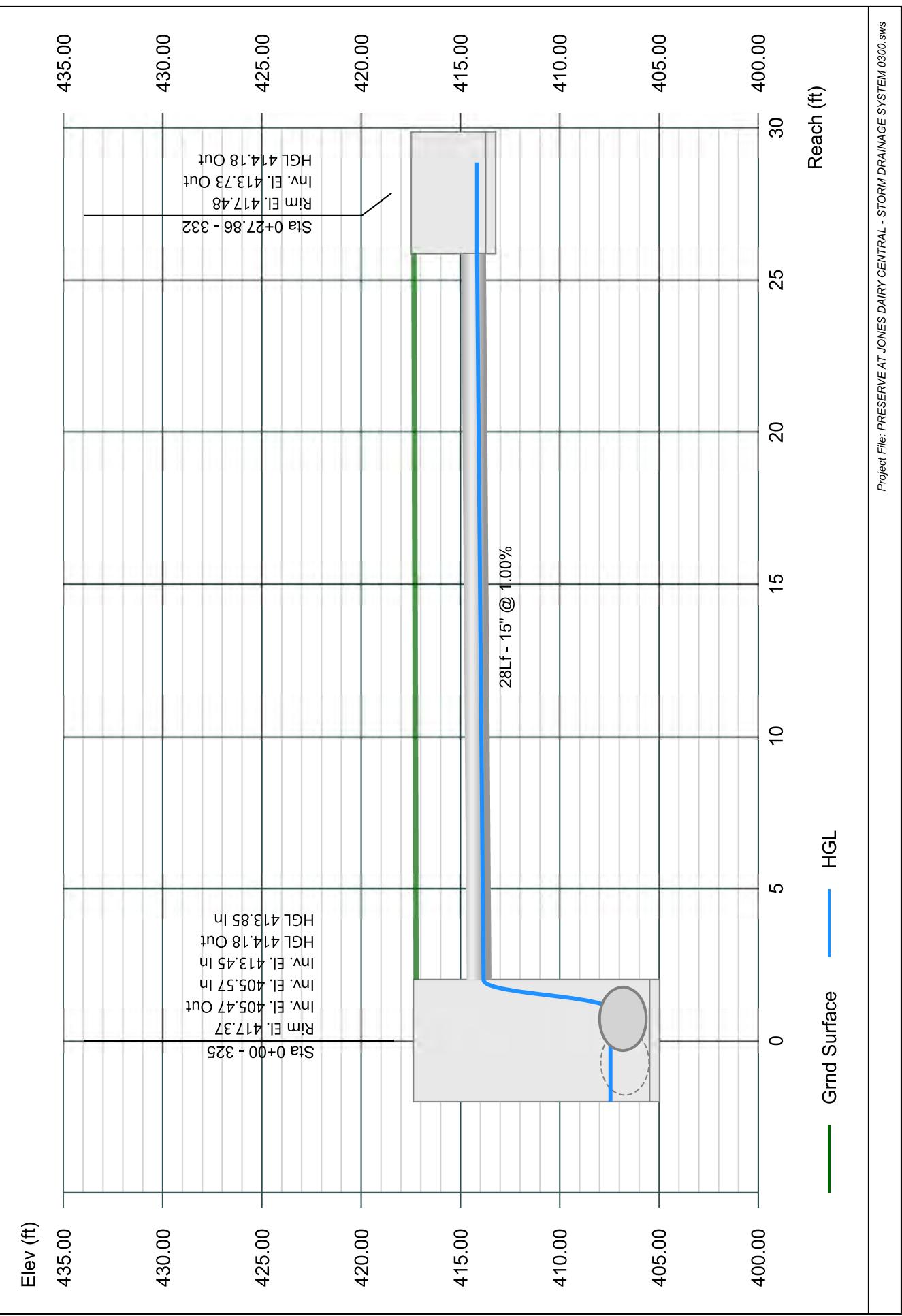


Line 62 - 332 TO 325

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

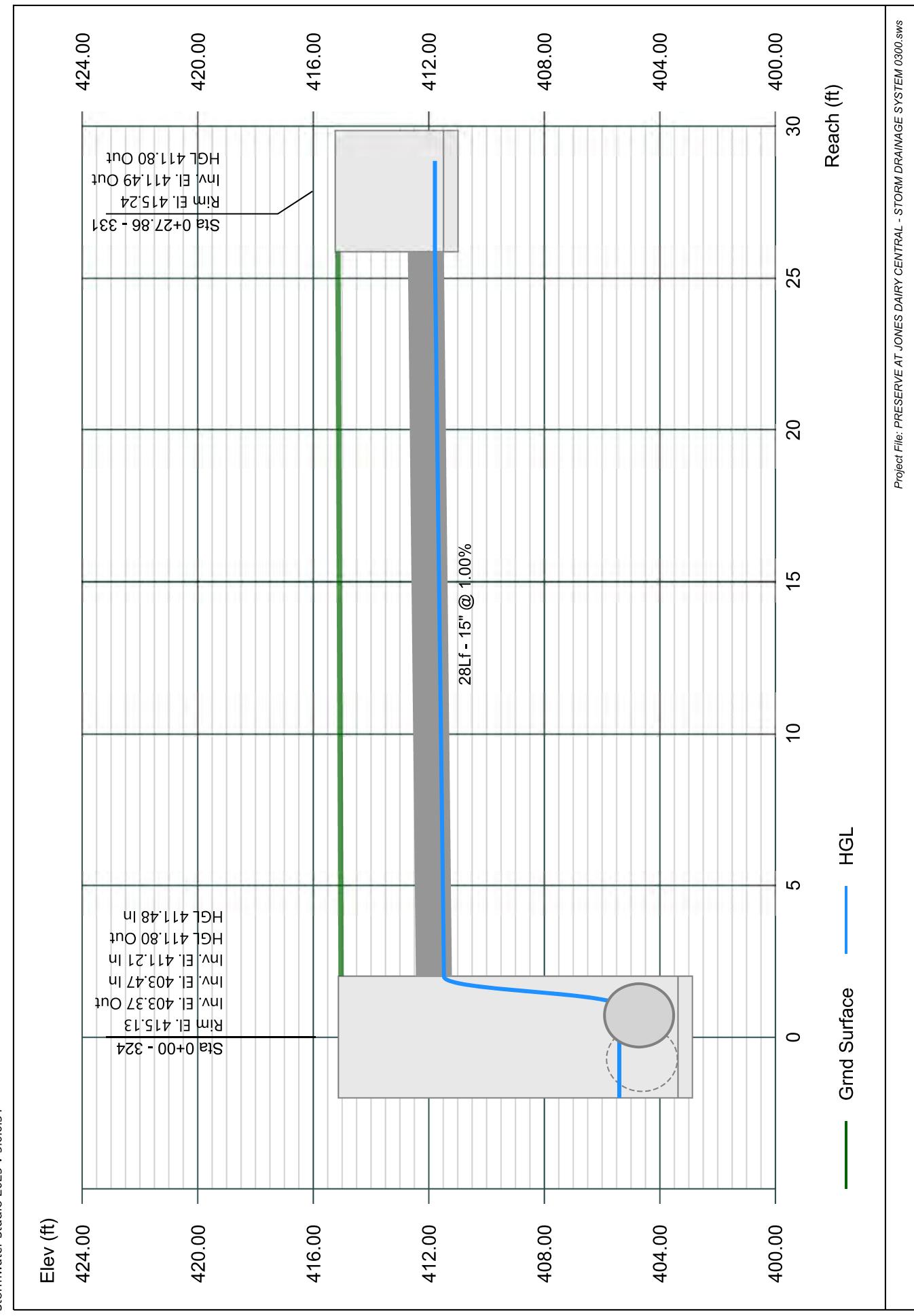


Line 63 - 331 TO 324

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

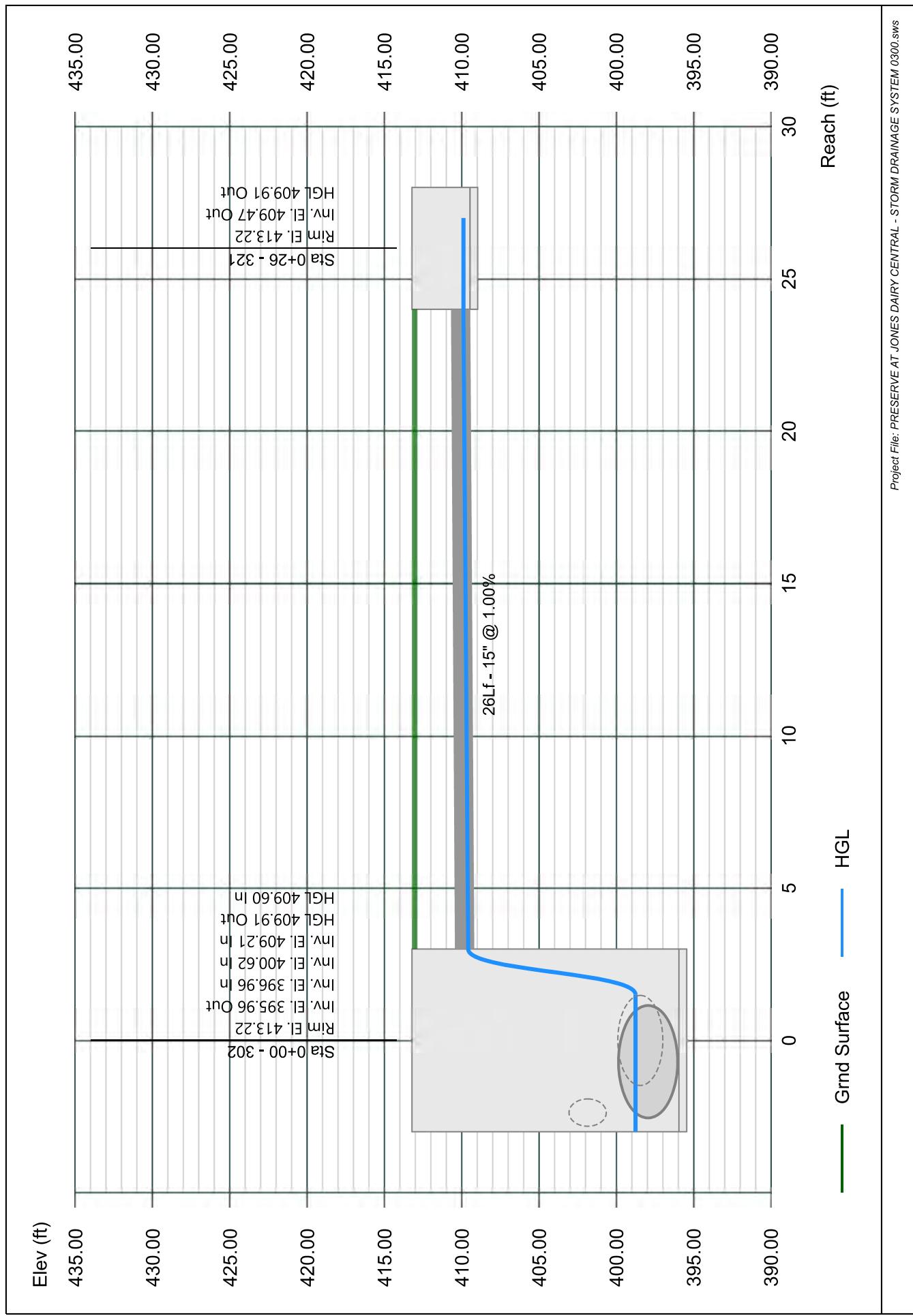


Line 64 - 321 TO 302

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

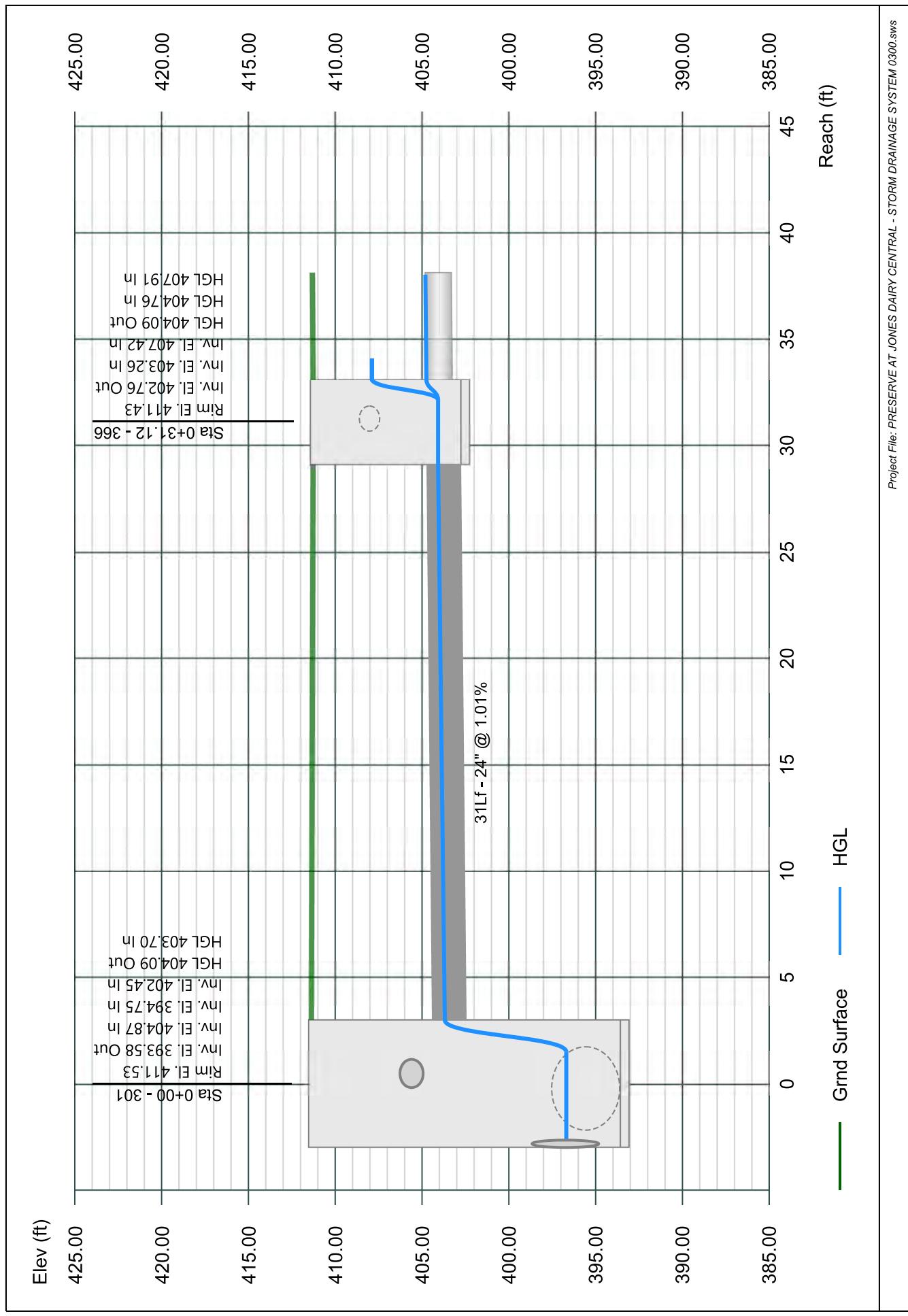


Line 65 - 366 TO 301

Stormwater Studio 2023 v30031

Project Name: Enter Project Name...

05-03-2023

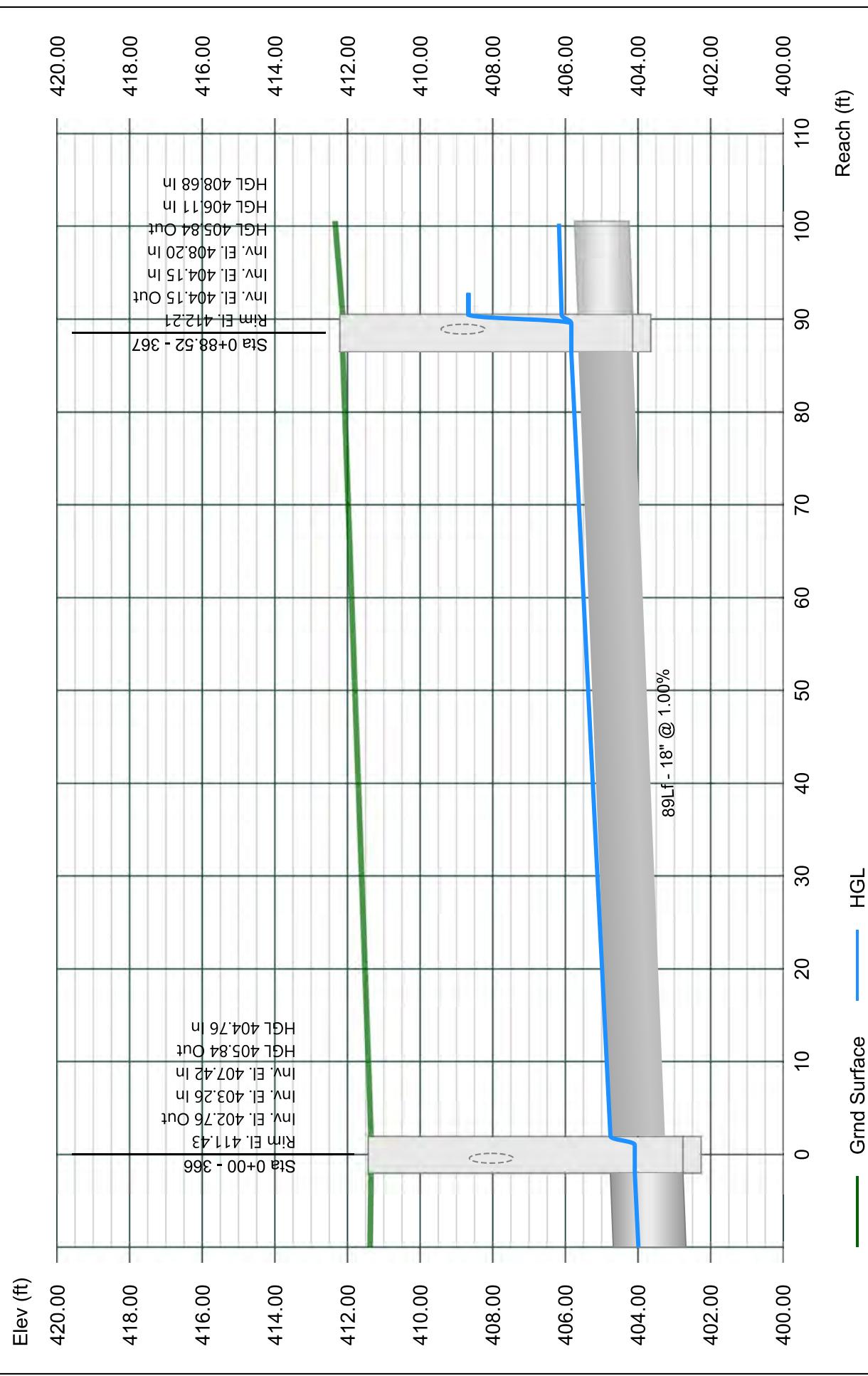


Line 66 - 367 TO 366

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

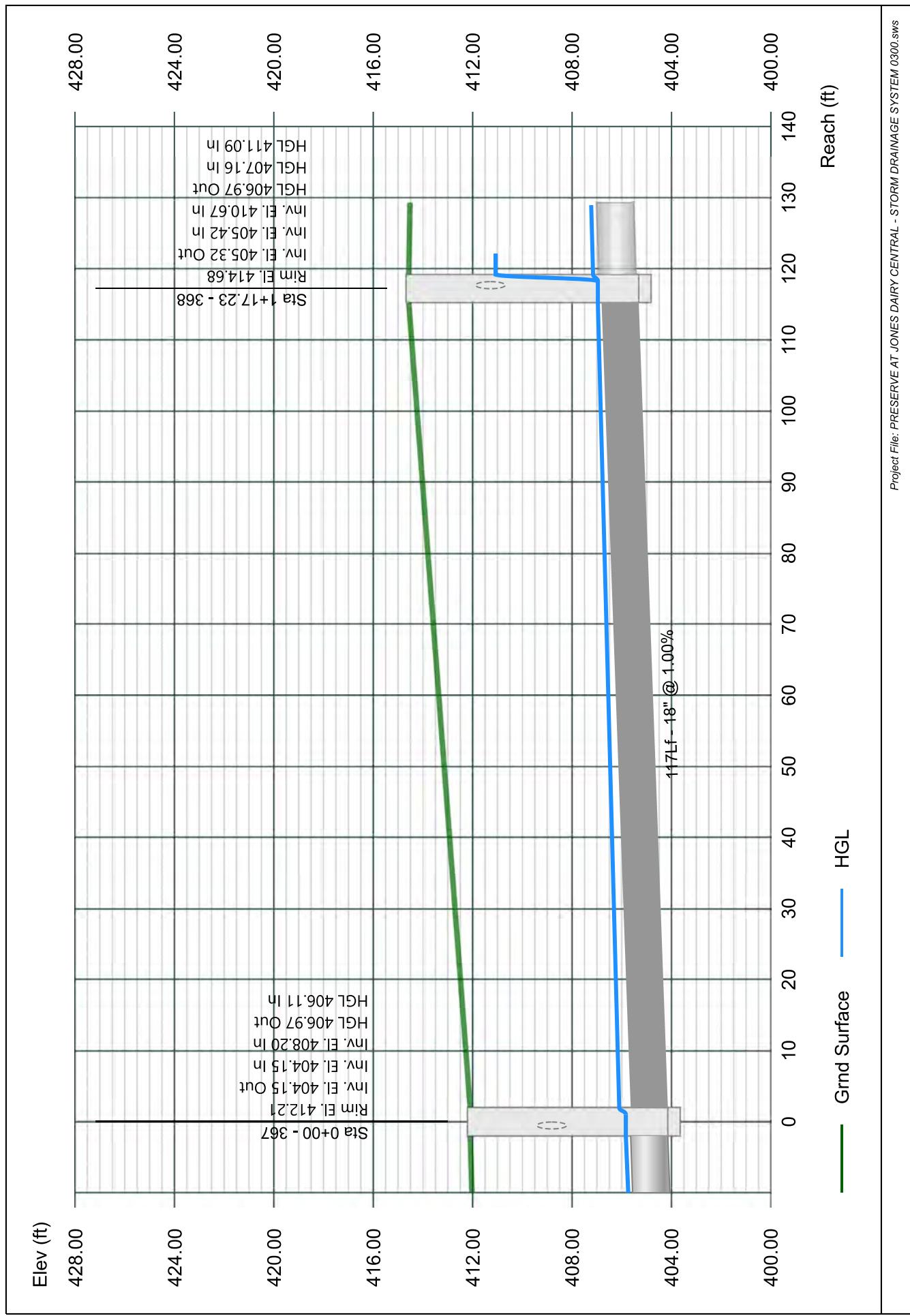


Line 67 - 368 TO 367

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

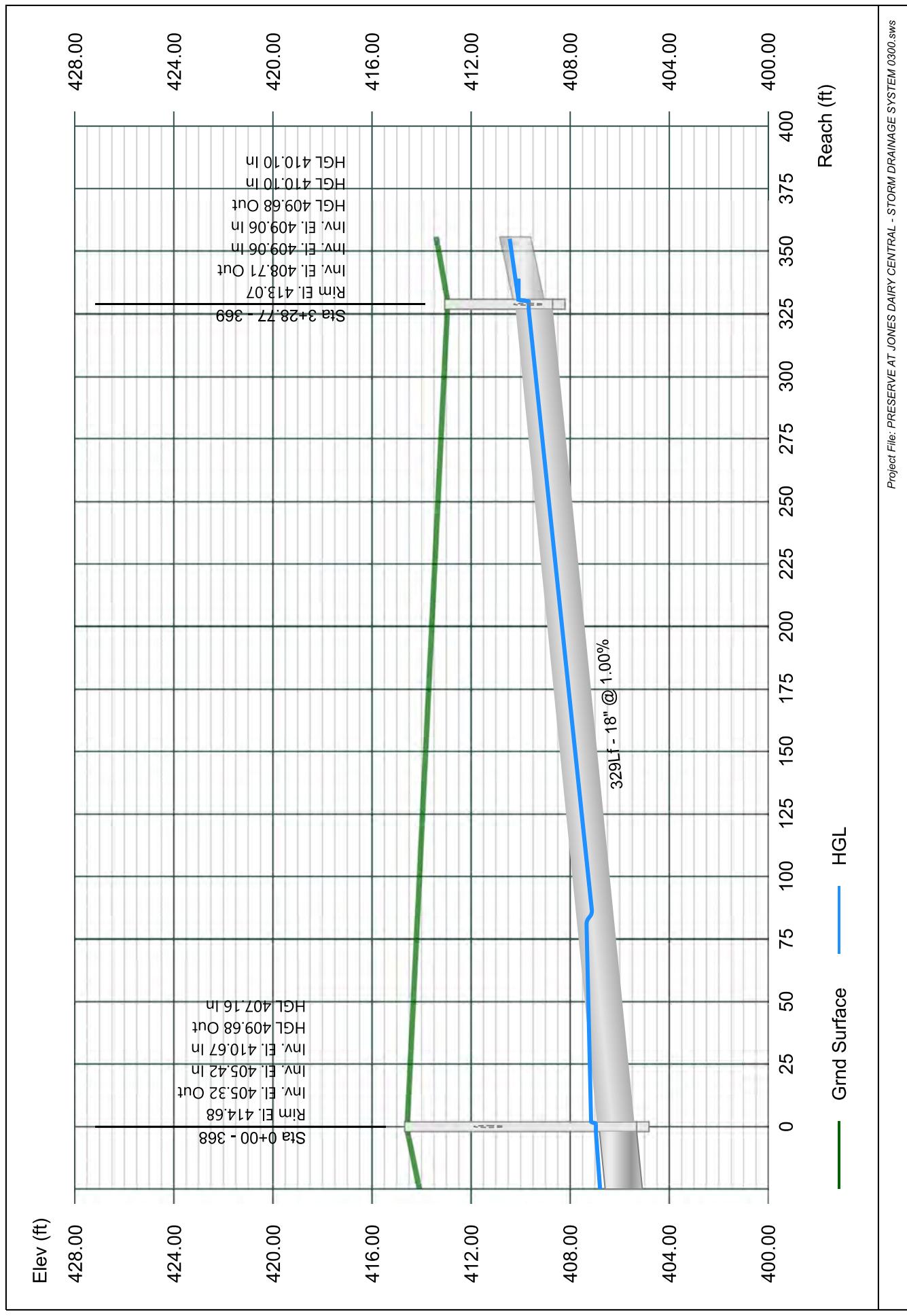


Line 68 - 368 TO 368

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

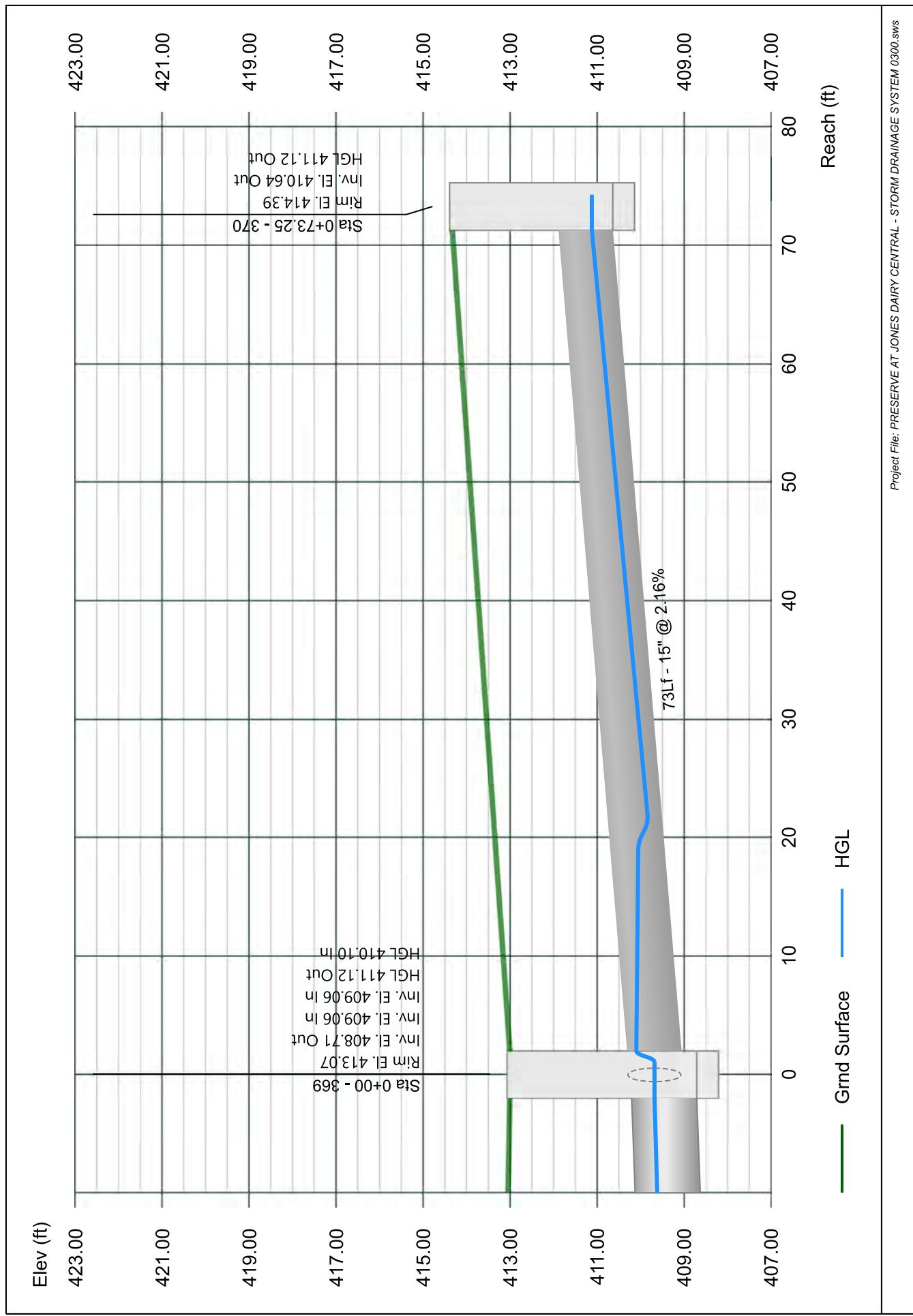


Line 69 - 370 TO 369

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

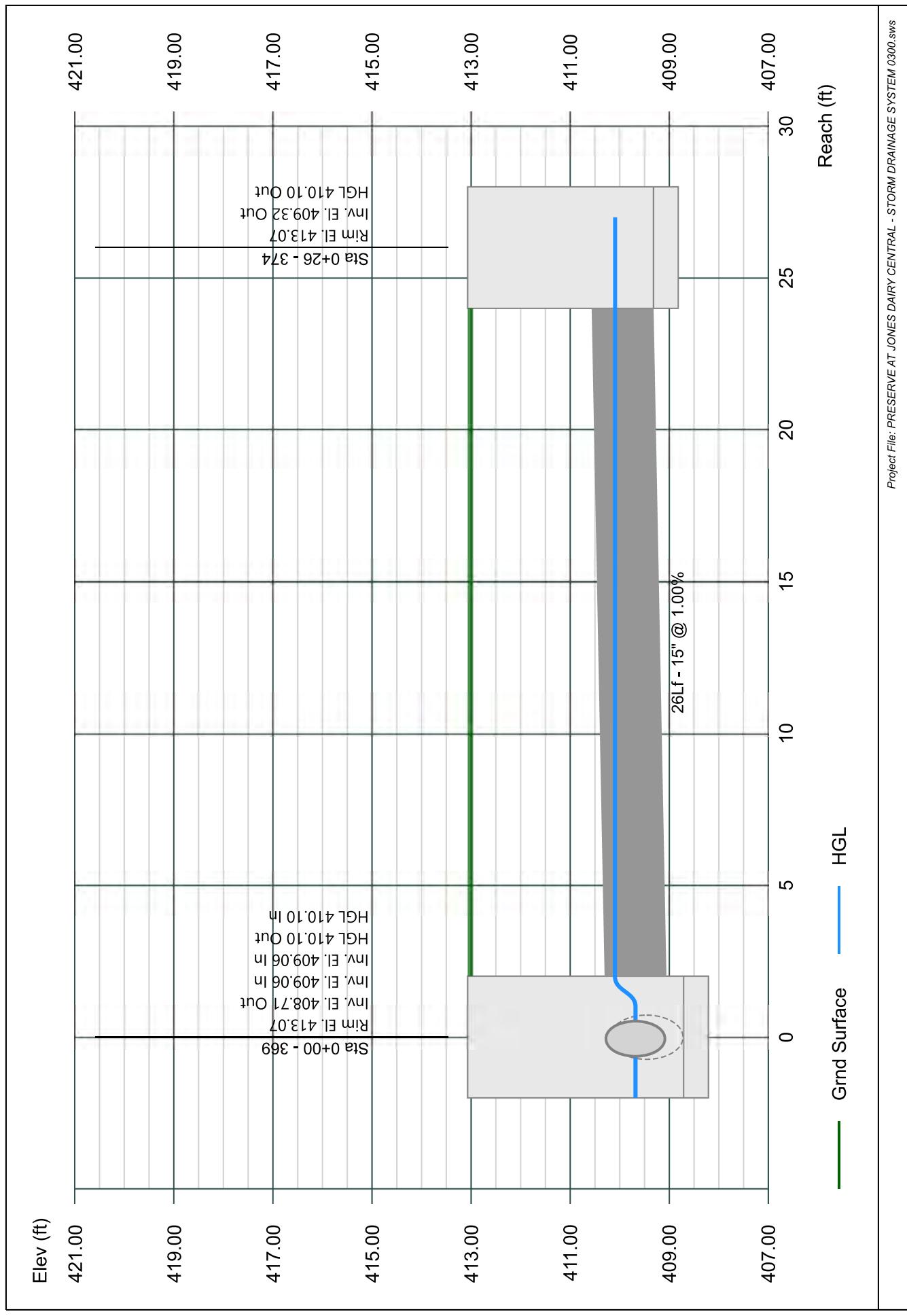


Line 70 - 374 TO 369

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

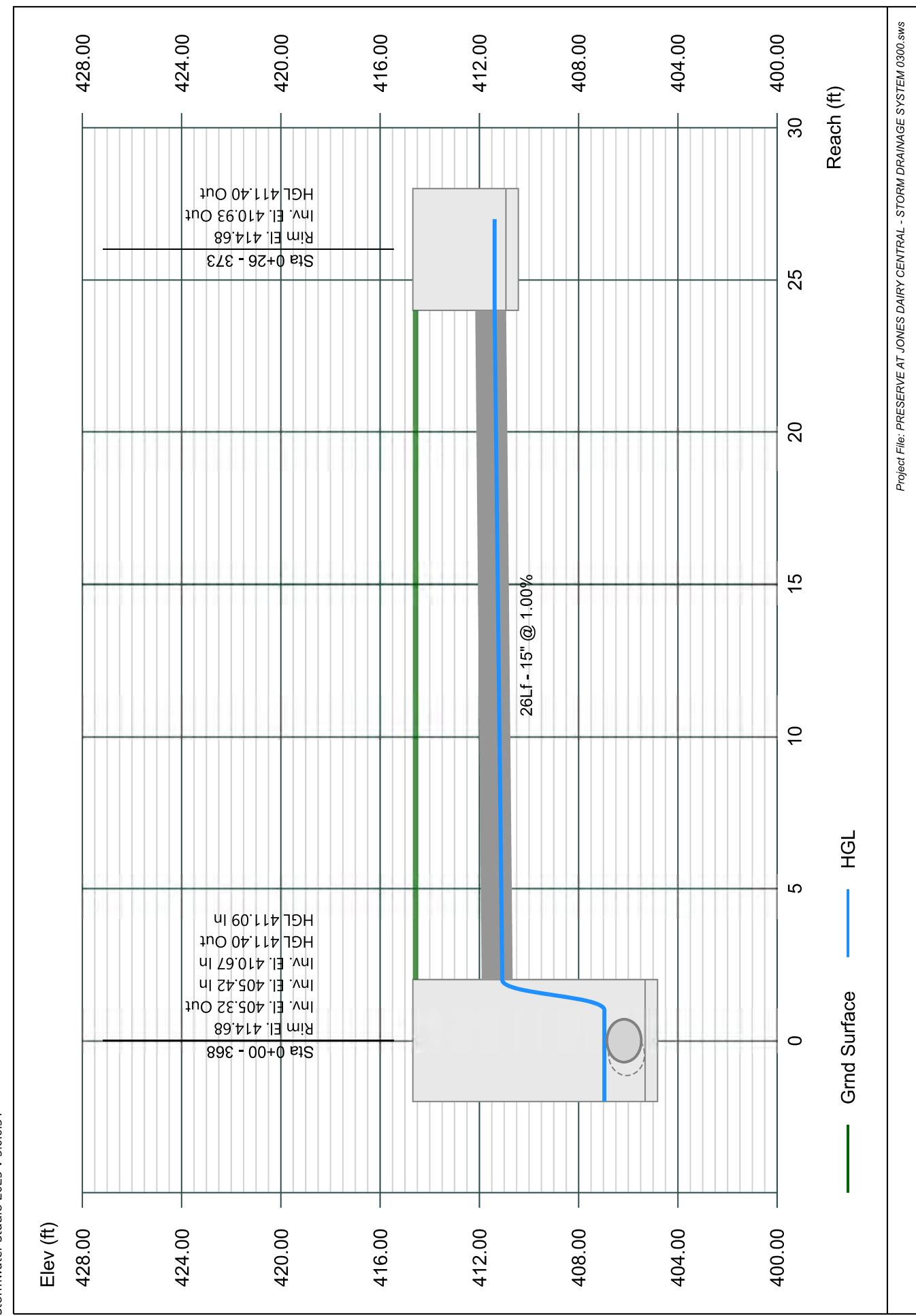


Line 71 - 383 TO 368

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

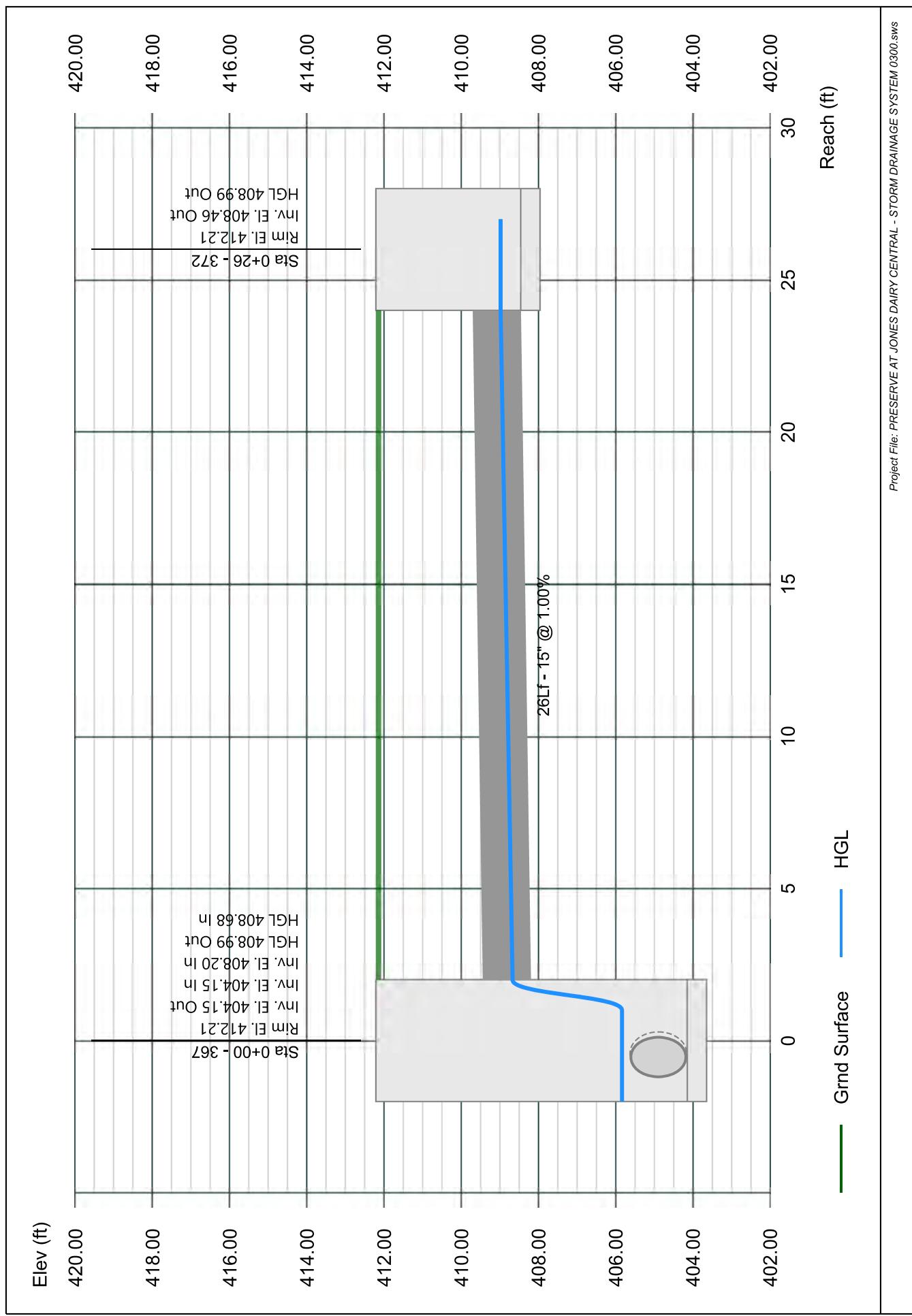


Line 72 - 372 TO 367

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

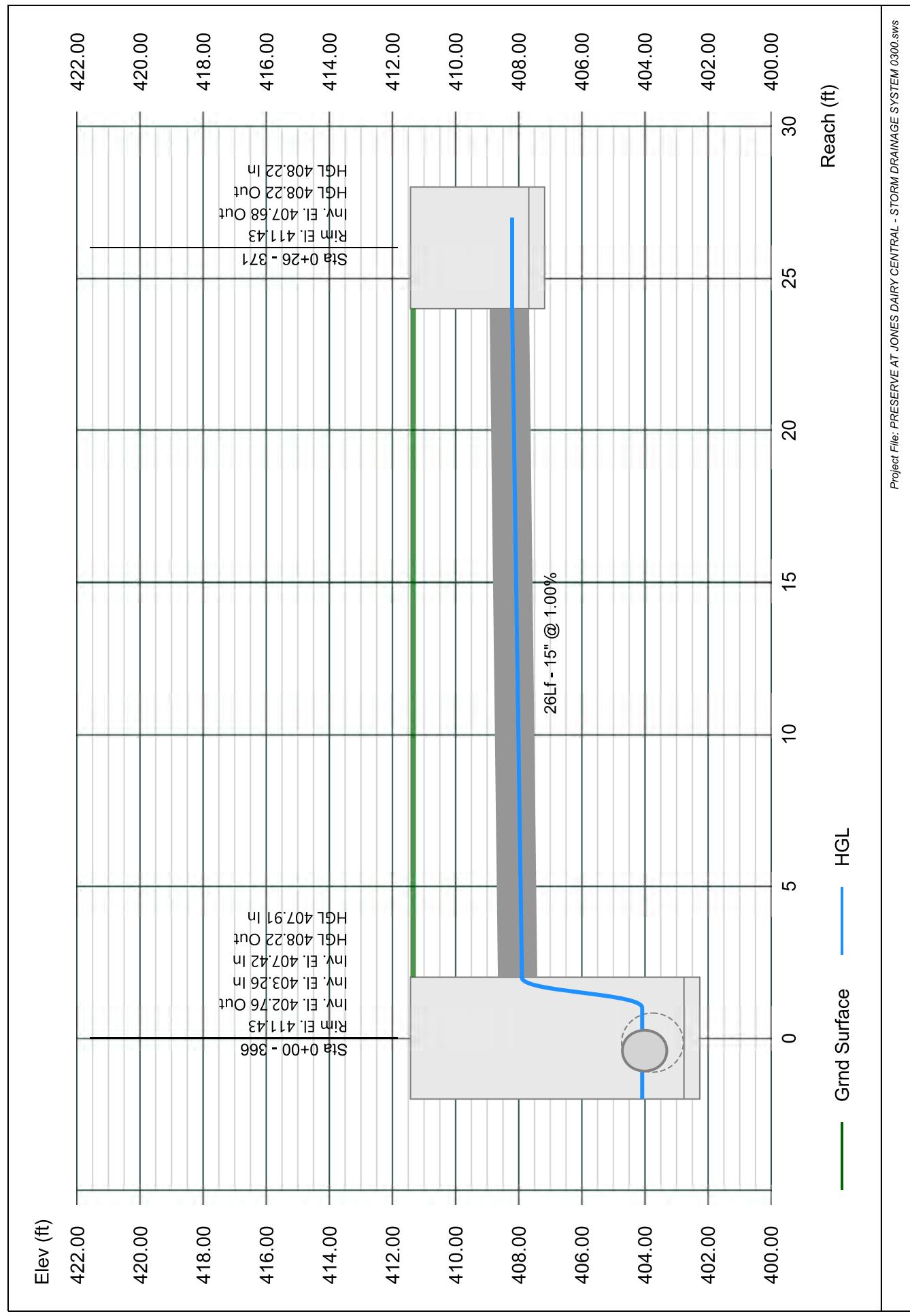
05-03-2023



Line 73 - 371 TO 366

Project Name: Enter Project Name...

05-03-2023



APPENDIX D – STORM SEWER GUTTER SPREAD CALCULATIONS

Spread Report

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet i (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
1	101	101	Comb.	0.070	0.80	4.00	0.22	0.04	0.25	0.01	3.10
2	102	102	Comb.	0.080	0.80	4.00	0.26	0.14	0.37	0.03	3.50
3	103	103	Comb.	0.180	0.70	4.00	0.50	0.07	0.58	0.00	2.46
4	104	104	Comb.	0.170	0.70	4.00	0.48	0.19	0.59	0.07	3.68
5	105	105	Comb.	0.250	0.70	4.00	0.70	0.45	0.96	0.19	4.38
6	106	106	Comb.	0.360	0.70	4.00	1.01	0.04	0.89	0.16	4.25
7	107	107	Comb.	0.140	0.70	4.00	0.39	0.13	0.48	0.04	3.43
8	108	108	Comb.	0.320	0.70	4.00	0.90	0.00	0.77	0.13	4.03
9	109	109	Comb.	0.300	0.07	4.00	0.08	0.00	0.08	0.00	2.17
10	110	110	Comb.	0.590	0.70	4.00	1.65	0.01	1.30	0.37	4.93
11	111	111	Comb.	0.100	0.70	4.00	0.28	0.01	0.28	0.01	2.90
12	112	112	Comb.	0.100	0.70	4.00	0.28	0.00	0.27	0.01	3.18
13	113	113	MH	0.001	0.80	4.00	0.00	....	....	....	....
14	114	114	Comb.	0.100	0.70	4.00	0.28	0.02	0.30	0.00	0.92
15	115	115	MH	0.001	0.80	4.00	0.00	....	....	....	....
16	116	116	Comb.	0.140	0.70	4.00	0.39	0.00	0.38	0.01	2.87
17	117	117	Comb.	0.120	0.70	4.00	0.34	0.00	0.32	0.02	3.33
18	118	118	Comb.	0.110	0.70	4.00	0.31	0.00	0.29	0.02	3.25
19	119	119	Comb.	0.120	0.70	4.00	0.34	0.02	0.33	0.02	3.38
20	120	120	Comb.	0.270	0.70	4.00	0.76	0.19	0.95	0.00	3.21
21	121	121	Comb.	0.250	0.70	4.00	0.70	0.08	0.78	0.00	2.96
22	122	122	Comb.	0.140	0.70	4.00	0.39	0.18	0.57	0.00	2.46
23	123	123	Comb.	0.200	0.70	4.00	0.56	0.51	0.89	0.18	4.70
24	124	124	Comb.	0.170	0.70	4.00	0.48	0.10	0.52	0.06	3.85

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet i (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
25	125	125	Comb.	0.110	0.70	4.00	0.31	0.46	0.67	0.10	4.23
26	126	126	Comb.	0.190	0.70	4.00	0.53	0.15	0.60	0.08	4.05
27	127	127	Comb.	0.230	0.70	4.00	0.64	0.30	0.80	0.15	4.53
28	128	128	Comb.	0.330	0.70	4.00	0.92	0.15	0.89	0.18	4.70
29	129	129	Comb.	0.340	0.70	4.00	0.95	0.00	0.80	0.15	4.53
30	130	130	Comb.	0.300	0.70	4.00	0.84	0.00	0.72	0.12	4.35
31	131	131	Comb.	0.590	0.70	4.00	1.65	0.00	1.27	0.38	5.43
32	132	132	Dp-Curb	0.330	0.65	4.00	0.86	0.00	0.86	0.00	1.37
33	133	133	Dp-Curb	0.210	0.65	4.00	0.55	0.00	0.55	0.00	0.49
34	134	134	Dp-Curb	0.410	0.65	4.00	1.07	0.00	1.07	0.00	1.90
35	135	135	Dp-Curb	0.540	0.65	4.00	1.40	0.00	1.40	0.00	2.35
36	136	136	Comb.	0.660	0.70	4.00	1.85	0.00	1.40	0.45	5.65
37	137	137	Dp-Curb	0.500	0.65	4.00	1.30	0.00	1.30	0.00	2.23
38	138	138	Dp-Curb	0.700	0.65	4.00	1.82	0.00	1.82	0.00	2.79
39	139	139	Dp-Curb	0.650	0.65	4.00	1.69	0.00	1.69	0.00	2.66
40	140	140	Comb.	0.100	0.70	4.00	0.28	0.00	0.28	0.00	0.92
41	141	141	Comb.	0.360	0.70	4.00	1.01	0.10	0.92	0.19	4.53
42	142	142	Comb.	0.280	0.70	4.00	0.78	0.00	0.68	0.10	4.05
43	143	143	Comb.	0.470	0.70	4.00	1.32	0.00	1.06	0.26	4.78
44	144	144	Comb.	0.250	0.70	4.00	0.70	0.00	0.62	0.08	3.90
45	145	145	Comb.	0.110	0.70	4.00	0.31	0.00	0.29	0.02	3.20
46	146	146	Dp-Curb	0.730	0.65	4.00	1.90	0.00	1.90	0.00	2.87
47	147	147	Dp-Curb	0.520	0.65	4.00	1.35	0.00	1.35	0.00	2.29
48	148	148	Comb.	0.370	0.70	4.00	1.04	0.00	1.04	0.00	3.46

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
49	149	149	Comb.	0.670	0.70	4.00	1.88	0.00	1.43	0.45	5.13
50	150	150	Comb.	0.390	0.70	4.00	1.09	0.00	1.09	0.00	3.46
51	151	151	Comb.	0.190	0.70	4.00	0.53	0.11	0.65	0.00	2.46
52	152	152	Comb.	0.040	0.80	4.00	0.13	0.10	0.22	0.01	2.82
53	153	153	Comb.	0.220	0.70	4.00	0.62	0.17	0.68	0.10	4.05
54	154	154	Comb.	0.350	0.70	4.00	0.98	0.03	0.84	0.17	4.38
55	155	155	Comb.	0.090	0.80	4.00	0.29	0.15	0.41	0.03	3.40
56	156	156	Comb.	0.350	0.70	4.00	0.98	0.00	0.83	0.15	4.35
57	157	157	Comb.	0.270	0.70	4.00	0.76	0.00	0.66	0.10	4.00
58	158	158	Dp-Curb	8.600	0.50	4.00	17.20	0.00	17.20	0.00	5.03
59	159	159	Comb.	0.210	0.70	4.00	0.59	0.00	0.53	0.06	3.70
60	160	160	Comb.	0.290	0.70	4.00	0.81	0.00	0.71	0.11	4.10
61	161	161	Dp-Curb	3.070	0.60	4.00	7.37	0.00	7.37	0.00	7.12
62	162	162	Comb.	0.290	0.70	4.00	0.81	0.00	0.71	0.11	4.10
63	163	163	Comb.	0.170	0.70	4.00	0.48	0.00	0.44	0.04	3.70
64	164	164	Comb.	0.330	0.70	4.00	0.92	0.00	0.78	0.14	4.55
65	165	165	Dp-Curb	0.340	0.60	4.00	0.82	0.00	0.82	0.00	1.26
66	166	166	Dp-Curb	0.001	0.60	4.00	0.00	0.00	0.00	0.00	0.03
67	167	167	Dp-Curb	1.850	0.55	4.00	4.07	0.00	4.07	0.00	4.79
68	168	168	Dp-Curb	4.540	0.55	4.00	9.99	1.23	11.22	0.00	3.78
69	169	169	MH	0.010	0.75	4.00	0.03	....	....	....	....
70	170	170	MH	0.350	0.65	4.00	0.91	....	....	....	....
71	171	171	MH	0.001	0.75	4.00	0.00	....	....	....	....
72	172	172	Dp-Grate	0.400	0.75	4.00	1.20	0.82	0.97	1.05	8.00

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
73	173	173	Comb.	0.340	0.75	4.00	1.02	0.00	0.86	0.16	4.40
74	174	174	Comb.	0.340	0.75	4.00	1.02	0.26	1.28	0.00	3.96
75	175	175	Comb.	0.360	0.75	4.00	1.08	0.23	1.05	0.26	5.10
76	176	176	Comb.	0.410	0.75	4.00	1.23	0.00	1.00	0.23	5.00
77	177	177	MH	0.001	0.75	4.00	0.00	....	....	....	....
78	178	178	Comb.	0.170	0.75	4.00	0.51	0.00	0.46	0.05	3.78
79	179	179	Comb.	0.540	0.75	4.00	1.62	0.40	2.02	0.00	5.46
80	180	180	Dp-Grate	0.470	0.75	4.00	1.41	0.35	1.35	0.40	4.80
81	181	181	Dp-Grate	0.470	0.75	4.00	1.41	0.21	1.27	0.35	4.80
82	182	182	Dp-Curb	0.230	0.65	4.00	0.60	0.00	0.60	0.00	0.65
83	188	188	Dp-Curb	0.220	0.60	4.00	0.53	0.00	0.53	0.00	0.44
84	187	187	Dp-Curb	0.240	0.65	4.00	0.62	0.00	0.62	0.00	0.72
85	186	186	Dp-Curb	0.790	0.60	4.00	1.90	0.00	1.90	0.00	2.87
86	185	185	Dp-Curb	0.590	0.60	4.00	1.42	0.00	1.42	0.00	2.36
87	184	184	Dp-Curb	0.430	0.60	4.00	1.03	0.00	1.03	0.00	1.82
88	183	183	Dp-Curb	0.300	0.60	4.00	0.72	0.00	0.72	0.00	1.00
89	189	189	Dp-Grate	0.470	0.75	4.00	1.41	0.03	0.78	0.66	7.50
90	190	190	MH	0.010	0.75	4.00	0.03	....	....	....	....
91	191	187	MH	0.001	0.80	4.00	0.00	....	....	....	....
92	192	192	Dp-Grate	0.400	0.75	4.00	1.20	0.31	1.22	0.29	5.00
93	193	193	Dp-Grate	0.400	0.75	4.00	1.20	0.40	1.30	0.31	5.20
94	194	194	Dp-Grate	0.630	0.75	4.00	1.89	0.00	1.49	0.40	5.40
95	195	191	MH	0.001	0.75	4.00	0.00	....	....	....	....
96	196	196	Comb.	0.340	0.70	4.00	0.95	0.00	0.95	0.00	3.21

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2024 v 3.0.0.33

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet i (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
97	197	197	Comb.	1.240	0.70	4.00	3.47	0.49	3.96	0.00	6.46
98	198	198	Comb.	0.740	0.70	4.00	2.07	0.00	1.58	0.49	4.85
99	199	199	Dp-Curb	0.380	0.65	4.00	0.99	0.00	0.99	0.00	1.71
100	200	200	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00
101	201	201	Dp-Curb	0.370	0.65	4.00	0.96	0.00	0.96	0.00	1.64
102	202	202	Dp-Curb	0.280	0.65	4.00	0.73	0.00	0.73	0.00	1.82
103	203	203	Dp-Curb	0.050	0.60	4.00	0.12	0.00	0.12	0.00	0.00
104	204	204	Dp-Curb	0.370	0.65	4.00	0.96	0.00	0.96	0.00	1.51
105	205	205	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00
106	206	206	Dp-Curb	0.080	0.60	4.00	0.14	0.00	0.14	0.00	0.45
107	207	207	Dp-Grate	0.660	0.70	4.00	1.85	0.81	2.65	0.00	0.00
108	208	208	Dp-Grate	0.410	0.75	4.00	1.23	0.28	0.71	0.81	6.50
109	209	209	Dp-Grate	0.220	0.75	4.00	0.66	0.00	0.38	0.28	5.00
110	210	210	MH	0.001	0.70	4.00	0.00	....	....	....	....
111	211	211	Dp-Grate	0.380	0.75	4.00	1.14	0.00	0.93	0.21	4.20
112	212	212	Dp-Curb	0.240	0.65	4.00	0.62	0.00	0.62	0.00	0.72
113	213	213	Dp-Grate	0.470	0.75	4.00	1.41	0.00	1.13	0.28	4.60
114	213A	213A	Dp-Curb	0.470	0.75	4.00	1.41	0.00	1.41	0.00	0.72
115	214	214	Dp-Grate	0.320	0.75	4.00	0.96	0.00	0.53	0.43	6.00
116	215	207	Comb.	0.270	0.75	4.00	0.81	0.00	0.81	0.00	2.96
117	216	216	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.51
118	217	217	Dp-Curb	0.180	0.60	4.00	0.43	0.00	0.43	0.00	1.06
119	218	218	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	2.21
120	219	219	Dp-Curb	0.250	0.65	4.00	0.65	0.00	0.65	0.00	1.40

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2024 v30033

Project Name: Enter Project Name...

01-19-2024

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
121	220	220	Dp-Curb	0.140	0.65	4.00	0.36	0.00	0.36	0.00	0.00	0.95
122	221	221	Dp-Curb	1.120	0.60	4.00	2.69	0.00	2.69	0.00	3.62	3.62
123	222	222	Dp-Curb	0.060	0.60	4.00	0.14	0.00	0.14	0.00	0.00	0.51
124	223	223	Dp-Curb	0.750	0.65	4.00	1.95	0.00	1.95	0.00	2.92	2.92
125	314	314	Comb.	0.300	0.70	4.00	0.84	0.00	0.84	0.00	2.96	2.96
126	213B	213B	Dp-Curb	0.260	0.60	4.00	0.62	0.00	0.62	0.00	5.89	5.89

Notes: IDF File = Gutter Spread - 4 inches per hour.idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0100.sws

Spread Report

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet i (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
1	301	301	Comb.	0.120	0.70	5.52	0.46	0.01	0.44	0.03	3.48
2	318	318	Dp-Curb	0.470	0.65	5.52	1.69	0.55	2.23	0.00	3.20
3	319	319	Dp-Curb	0.770	0.65	5.52	2.76	0.00	2.76	0.00	3.69
4	320	320	Dp-Curb	0.710	0.65	5.52	2.55	0.00	2.55	0.00	3.50
5	302	302	Comb.	0.030	0.70	5.52	0.12	0.12	0.23	0.01	2.85
6	303	303	Comb.	0.001	0.70	5.52	0.00	0.00	0.00	0.00	0.33
7	304	304	Comb.	0.060	0.70	5.52	0.23	0.00	0.23	0.01	2.80
8	305	305	Comb.	0.190	0.70	5.52	0.73	0.00	0.74	0.00	2.71
9	306	306	Comb.	0.030	0.70	5.52	0.12	0.00	0.12	0.00	2.52
10	307	307	Comb.	0.170	0.70	5.52	0.66	0.00	0.66	0.00	2.46
11	308	308	Comb.	0.210	0.70	5.52	0.81	0.15	0.96	0.00	3.21
12	309	309	Comb.	0.140	0.70	5.52	0.54	0.02	0.51	0.05	3.90
13	363	363	Comb.	0.150	0.70	5.52	0.58	0.00	0.52	0.06	3.93
14	310	310	Comb.	0.080	0.70	5.52	0.31	0.06	0.35	0.02	3.43
15	311	311	Comb.	0.130	0.70	5.52	0.50	0.09	0.53	0.06	3.95
16	312	312	Comb.	0.090	0.70	5.52	0.35	0.37	0.63	0.09	4.20
17	364	364	Comb.	0.260	0.70	5.52	1.01	0.66	1.30	0.37	4.93
18	365	365	Comb.	0.600	0.70	5.52	2.32	0.09	1.75	0.66	5.58
19	313	313	Comb.	0.540	0.70	5.52	2.09	0.00	1.54	0.55	5.98
20	360	360	Comb.	0.100	0.70	5.52	0.39	0.37	0.66	0.09	3.83
21	361	361	Comb.	0.430	0.70	5.52	1.66	0.00	1.30	0.37	4.93
22	362	362	Dp-Curb	0.570	0.60	5.52	1.89	0.00	1.89	0.00	2.86
23	356	356	MH	0.001	0.70	5.52	0.00	....	....	....	....
24	357	357	Dp-Curb	0.840	0.65	5.52	3.02	0.00	3.02	0.00	3.91

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
25	358	358	Dp-Curb	0.310	0.65	5.52	1.11	0.00	1.11	0.00	2.01
26	359	359	Dp-Curb	0.220	0.65	5.52	0.79	0.00	0.79	0.00	1.19
27	355	355	Comb.	0.630	0.70	5.52	2.44	0.00	2.44	0.00	5.96
28	338	338	Comb.	0.370	0.70	5.52	1.43	0.00	1.43	0.00	4.21
29	339	339	Comb.	0.140	0.70	5.52	0.54	0.40	0.95	0.00	3.21
30	340	340	Comb.	0.320	0.70	5.52	1.24	0.50	1.33	0.40	5.08
31	341	341	Comb.	0.230	0.70	5.52	0.89	0.00	0.77	0.12	4.10
32	342	342	Comb.	0.180	0.70	5.52	0.70	0.00	0.61	0.09	4.15
33	343	343	Comb.	0.080	0.70	5.52	0.31	0.07	0.35	0.02	3.45
34	343A	343A	Comb.	0.120	0.70	5.52	0.46	0.00	0.43	0.04	3.68
35	344	344	Comb.	0.090	0.70	5.52	0.35	0.08	0.39	0.03	3.58
36	345	345	Comb.	0.130	0.70	5.52	0.50	0.16	0.59	0.08	4.10
37	346	346	Comb.	0.230	0.70	5.52	0.89	0.13	0.85	0.16	4.70
38	347	347	Comb.	0.170	0.70	5.52	0.66	0.14	0.69	0.11	4.35
39	348	348	Comb.	0.220	0.70	5.52	0.85	0.01	0.74	0.13	4.38
40	349	349	Comb.	0.080	0.70	5.52	0.31	0.00	0.30	0.01	3.23
41	354	354	Comb.	0.080	0.70	5.52	0.31	0.00	0.30	0.01	3.23
42	353	353	Comb.	0.090	0.70	5.52	0.35	0.00	0.33	0.02	3.33
43	351	351	Comb.	0.190	0.70	5.52	0.73	0.00	0.73	0.00	2.71
44	315	315	MH	0.000	0.00	0.00	0.00	....	....	....	....
45	316	316	Dp-Curb	0.550	0.65	5.52	1.97	0.00	1.97	0.00	6.37
46	317	317	Dp-Curb	0.700	0.65	5.52	2.51	0.00	2.51	0.00	7.49
47	350	350	Comb.	0.430	0.70	5.52	1.66	0.00	1.28	0.38	5.45
48	333	333	Dp-Curb	0.170	0.65	5.52	0.61	0.00	0.61	0.00	1.34

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	Inlet i (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
49	334	334	Dp-Curb	0.370	0.65	5.52	1.33	0.00	1.33	0.00	2.26
50	335	335	Dp-Curb	0.270	0.65	5.52	0.97	0.00	0.97	0.00	1.66
51	336	336	Dp-Curb	0.170	0.65	5.52	0.61	0.00	0.61	0.00	0.68
52	337	337	Dp-Curb	0.760	0.65	5.52	2.73	0.00	2.73	0.00	3.66
53	322	322	Comb.	0.130	0.70	5.52	0.50	0.03	0.53	0.00	2.21
54	323	323	Comb.	0.580	0.70	5.52	2.24	0.42	2.66	0.00	6.46
55	324	324	Comb.	0.390	0.70	5.52	1.51	0.25	1.34	0.42	5.55
56	325	325	Comb.	0.330	0.70	5.52	1.28	0.00	1.03	0.25	4.98
57	326	326	MH	0.001	0.70	5.52	0.00	....	....	....	....
58	327	327	Comb.	0.570	0.70	5.52	2.20	0.00	2.20	0.00	5.71
59	328	328	Comb.	0.920	0.65	5.52	3.30	0.00	3.31	0.00	7.46
60	329	329	MH	0.001	0.70	5.52	0.00	....	....	....	....
61	330	330	Dp-Curb	6.620	0.50	5.52	18.28	0.00	18.28	0.00	5.24
62	332	332	Comb.	0.230	0.70	5.52	0.89	0.00	0.76	0.13	4.43
63	331	331	Comb.	0.110	0.70	5.52	0.43	0.00	0.39	0.03	3.53
64	321	321	Comb.	0.220	0.70	5.52	0.85	0.00	0.73	0.12	4.15
65	366	366	Comb.	0.180	0.70	5.52	0.70	0.15	0.84	0.00	2.96
66	367	367	Comb.	0.210	0.70	5.52	0.81	0.18	0.84	0.15	4.18
67	368	368	Comb.	0.280	0.70	5.52	1.08	0.00	0.90	0.18	4.28
68	369	369	Comb.	0.660	0.70	5.52	2.55	0.13	2.69	0.00	6.46
69	370	370	Comb.	0.270	0.70	5.52	1.04	0.00	0.91	0.13	3.68
70	374	374	Comb.	0.280	0.70	5.52	1.08	0.00	1.08	0.00	3.46
71	373	373	Comb.	0.250	0.70	5.52	0.97	0.00	0.82	0.15	4.13
72	372	372	Comb.	0.320	0.70	5.52	1.24	0.00	1.02	0.22	4.48

Notes: IDF File = RDU Rainfall Intensity.idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Stormwater Studio 2023 v 3.0.0.31

Project Name: Enter Project Name...

05-03-2023

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
73	371	371	Comb.	0.330	0.70	5.52	1.28	0.00	1.28	0.00	3.96	3.96

Notes: IDF File = RDU-Rainfall Intensity.idf, Return Period = 2-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0300.sws

Spread Report

Stormwater Studio 2022 v 3.0.0.29

Project Name: Enter Project Name...

12-12-2022

Line No.	Inlet ID	Area ID	Junct Type	Drain Area (ac)	Runoff Coeff (C)	i Inlet (in/hr)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Gutter Spread (ft)	Inlet Spread (ft)
1	401	401	MH	0.001	0.75	4.00	0.00	....	....	....	....	....
2	402	402	Comb.	0.100	0.90	4.00	0.36	0.00	0.36	0.00	1.42	1.86
3	403	403	Comb.	0.270	0.75	4.00	0.81	0.00	0.81	0.00	2.96	2.96
4	404	404	Comb.	0.700	0.60	4.00	1.68	0.00	1.68	0.00	4.71	4.71
5	405	405	Hdwall	0.870	0.60	4.00	2.09	0.00	2.09	0.00	....	....
6	406	406	Hdwall	17.200	0.40	4.00	27.52	0.00	27.52	0.00	....	....

Notes: IDF File = Gutter Spread - 4 inches per hour idf, Return Period = 10-yr.

Project File: PRESERVE AT JONES DAIRY CENTRAL - STORM DRAINAGE SYSTEM 0400.sws