

**Table 5.1: Water Surface Elevation Comparisons - Salisbury Park North Phase 1 FDP Revised per 12-03-2024 Grading**  
 ICON Engineering Inc.

Location Description	Effective Cross Section	Corrected Effective Cross Section	Pre-Project Conditions Cross Section	Post-Project Conditions Cross Section	Effective Conditions <sup>1</sup>		Duplicate Effective Conditions <sup>2</sup>			Corrected Effective Conditions <sup>3</sup>			Pre-Project Conditions <sup>4</sup>				Post-Project Conditions <sup>5</sup> 12-03-2024 Phase 1			
					Discharge (cfs)	WSEL (NGVD 29)	Discharge (cfs)	WSEL (NGVD 29)	Δ WSEL vs. Effective	Discharge (cfs)	WSEL (NAVD 88)	Δ WSEL vs. Duplicate Effective	Discharge (cfs)	WSEL (NAVD 88)	Δ WSEL vs. Duplicate Effective	Δ WSEL vs. Corrected Effective	Discharge (cfs)	WSEL (NAVD 88)	Δ WSEL vs. Corrected Effective	Δ WSEL vs. Pre-Project
FHAD XS 128 FEMA lettered section AF	137545.3	137545.3	137545.3	137545.3	36171	5828.68	36171	5828.67	-0.01	36171	5828.67	0.00	36171	5828.67	0.00	0.00	36171	5828.67	0.00	0.00
FHAD XS 129	138067.2	138067.2	138067.2	138067.2	36171	5829.69	36171	5829.68	-0.01	36171	5829.49	-0.19	36171	5829.70	<b>0.02</b>	<b>0.21</b>	36171	5829.70	<b>0.21</b>	0.00
FHAD XS 129.6	<i>138361.5</i>	138360.5	138360.5	138360.5	--	<b>5830.70</b>	--	<b>5830.69</b>	0.00	35920	5830.52	-0.17	35920	5830.68	-0.01	<b>0.16</b>	35920	5830.68	<b>0.16</b>	0.00
FHAD XS 130	138526.8	<b>138534.2</b>	<b>138534.2</b>	<b>138534.2</b>	35920	5831.26	35920	5831.26	0.00	--	<b>5832.01</b>	<b>0.75</b>	--	<b>5832.07</b>	<b>0.81</b>	<b>0.06</b>	--	<b>5832.07</b>	<b>0.06</b>	0.00
FHAD XS 130.4	<b>138672.8</b>	138658.4	138658.4	138658.4	--	<b>5832.41</b>	--	<b>5832.42</b>	0.00	35920	5833.08	<b>0.66</b>	35920	5833.06	<b>0.64</b>	-0.02	35920	5833.06	-0.02	0.00
FHAD XS 131 FEMA lettered section AG	138860	138889.1	138887.3	138887.3	35920	5833.89	35920	5833.90	0.01	35920	5834.83	<b>0.93</b>	35920	5833.95	<b>0.05</b>	-0.88	35920	5833.95	-0.88	0.00
FHAD XS 131.3	<b>138977.5</b>	138996.1	139005.3	139005.3	--	<b>5834.95</b>	--	<b>5834.96</b>	0.00	35669	5837.00	<b>2.04</b>	35669	5835.62	<b>0.66</b>	-1.38	35669	5835.62	-1.38	0.00
	139061	<b>139085.7</b>	<b>139079.3</b>	<b>139079.3</b>	35669	5835.71	35669	5835.71	0.00	--	<b>5837.78</b>	<b>2.07</b>	--	<b>5836.64</b>	<b>0.93</b>	-1.14	--	<b>5836.64</b>	-1.14	0.00
FHAD XS 131.7	<b>139166.3</b>	139174	139186.6	139186.6	--	<b>5835.97</b>	--	<b>5835.97</b>	0.00	35669	5838.54	<b>2.57</b>	35669	5838.11	<b>2.14</b>	-0.43	35669	5838.11	-0.43	0.00
FHAD XS 132	139262.6	<b>139302.6</b>	<b>139296.2</b>	<b>139296.2</b>	35669	5836.21	35669	5836.21	0.00	--	<b>5838.79</b>	<b>2.58</b>	--	<b>5838.43</b>	<b>2.22</b>	-0.37	--	<b>5838.43</b>	-0.37	0.00
FHAD XS 132.1	<b>139299.3</b>	139341.3	139338.2	139338.2	--	<b>5836.26</b>	--	<b>5836.26</b>	0.00	35669	5838.87	<b>2.61</b>	35669	5838.55	<b>2.29</b>	-0.32	35669	5838.55	-0.32	0.00
	<b>139419.6</b>	139470.2	<b>139457.6</b>	<b>139457.6</b>	--	<b>5836.43</b>	--	<b>5836.43</b>	0.00	35669	5838.90	<b>2.47</b>	--	<b>5838.50</b>	<b>2.07</b>	-0.40	--	<b>5838.50</b>	-0.40	0.00
FHAD XS 132.9 Proposed FEMA section AH	<b>139471.3</b>	<b>139530.7</b>	139505.2	139505.2	--	<b>5836.50</b>	--	<b>5836.50</b>	0.00	--	<b>5838.95</b>	<b>2.45</b>	35669	5838.48	<b>1.98</b>	-0.47	35669	5838.48	-0.47	0.00
FHAD XS 132 FEMA lettered section AH	139529.7	<b>139602.4</b>	<b>139567</b>	<b>139567</b>	35669	5836.58	35669	5836.58	0.00	--	<b>5839.01</b>	<b>2.43</b>	--	<b>5838.75</b>	<b>2.17</b>	-0.26	--	<b>5838.75</b>	-0.26	0.00
FHAD XS 133.1	<b>139585.3</b>	<b>139659.3</b>	139624.0	139624.0	--	<b>5836.89</b>	--	<b>5836.89</b>	0.00	--	<b>5839.05</b>	<b>2.16</b>	35417	5838.99	<b>2.10</b>	-0.06	35417	5838.99	-0.06	0.00
FHAD XS 133.3	<b>139755.8</b>	139847.6	139794.7	139794.7	--	<b>5837.85</b>	--	<b>5837.84</b>	-0.01	35669	5839.20	<b>1.36</b>	35417	5839.63	<b>1.79</b>	<b>0.43</b>	35417	5839.63	<b>0.43</b>	0.00
	<b>139822</b>	<b>139979.9</b>	<b>139942.3</b>	<b>139942.3</b>	35417	5838.22	35417	5838.21	-0.01	--	<b>5839.70</b>	<b>1.49</b>	--	<b>5839.81</b>	<b>1.60</b>	<b>0.11</b>	--	<b>5839.81</b>	<b>0.11</b>	0.00
	<b>139908.4</b>	140071.7	<b>140039.6</b>	<b>140039.6</b>	--	<b>5838.64</b>	--	<b>5838.63</b>	-0.01	35417	5840.05	<b>1.42</b>	--	<b>5839.94</b>	<b>1.31</b>	-0.11	--	<b>5839.94</b>	-0.11	0.00
FHAD XS 134	140116.2	<b>140173.6</b>	140155.1	140155.1	35417	5839.64	35417	5839.64	0.00	--	<b>5840.20</b>	<b>0.56</b>	35417	5840.08	<b>0.44</b>	-0.12	35417	5840.08	-0.12	0.00
	<b>140186</b>	140276.2	<b>140233.0</b>	<b>140233.0</b>	--	<b>5840.02</b>	--	<b>5840.02</b>	0.00	35417	5840.35	<b>0.33</b>	--	<b>5840.30</b>	<b>0.29</b>	-0.05	--	<b>5840.31</b>	-0.04	<b>0.00</b>
FHAD XS 134.3	140354	<b>140479.6</b>	140397.3	140397.3	35417	5840.92	35417	5840.92	0.00	--	<b>5841.26</b>	<b>0.34</b>	35417	5840.77	-0.15	-0.49	35417	5840.77	-0.49	<b>0.01</b>
FHAD XS 134.5	<b>140479.6</b>	140620.5	140533.5	140533.5	--	<b>5841.44</b>	--	<b>5841.44</b>	0.00	35417	5841.89	<b>0.45</b>	35417	5841.24	-0.20	-0.65	35417	5841.24	-0.65	-0.01
	140593	<b>140758.6</b>	<b>140658</b>	<b>140658</b>	35417	5841.90	35417	5841.90	0.00	--	<b>5842.58</b>	<b>0.68</b>	--	<b>5841.57</b>	-0.33	-1.01	--	<b>5841.56</b>	-1.01	-0.01
FHAD XS 135 FEMA lettered section AI	140831.7	<b>140947.2</b>	140857.7	140857.7	35417	5842.53	35417	5842.53	0.00	--	5843.53	<b>1.00</b>	35417	5842.09	-0.44	-1.44	35417	5842.09	-1.44	0.00
	<b>140896.5</b>	141016	<b>140918.3</b>	<b>140918.3</b>	--	<b>5842.71</b>	--	<b>5842.71</b>	0.00	35417	5843.87	<b>1.16</b>	--	<b>5842.32</b>	-0.38	-1.55	--	<b>5842.32</b>	-1.55	0.00
FHAD XS 135.3	<b>141091.3</b>	<b>141263.3</b>	141128.6	141128.6	--	<b>5843.24</b>	--	<b>5843.24</b>	0.00	--	<b>5844.37</b>	<b>1.13</b>	35166	5843.14	-0.10	-1.23	35166	5843.14	-1.23	-0.02
FHAD XS 135.7	<b>141409.8</b>	<b>141594.8</b>	141463.7	141463.7	--	<b>5844.11</b>	--	<b>5844.11</b>	0.00	--	<b>5845.04</b>	<b>0.94</b>	35166	5844.17	<b>0.06</b>	-0.87	35166	5844.17	-0.87	<b>0.02</b>
FHAD XS 136	141564.8	<b>141752.4</b>	<b>141620.7</b>	<b>141620.7</b>	35166	5844.53	35166	5844.53	0.00	--	<b>5845.36</b>	<b>0.83</b>	--	<b>5844.76</b>	<b>0.23</b>	-0.61	--	<b>5844.79</b>	-0.57	<b>0.04</b>
	<b>141660.6</b>	141854.4	<b>141722.7</b>	<b>141722.7</b>	--	<b>5844.86</b>	--	<b>5844.86</b>	0.00	35166	5845.57	<b>0.71</b>	--	<b>5845.14</b>	<b>0.27</b>	-0.43	--	<b>5845.18</b>	-0.39	<b>0.05</b>
FHAD XS 136.4	<b>141859.2</b>	<b>142070.403</b>	141938.6	141938.6	--	<b>5845.55</b>	--	<b>5845.55</b>	0.00	--	<b>5846.22</b>	<b>0.66</b>	34915	5845.94	<b>0.39</b>	-0.28	34915	5846.01	-0.21	<b>0.07</b>
FHAD XS 136.6	<b>142053</b>	142241.8	142110.2	142110.2	--	<b>5846.22</b>	--	<b>5846.22</b>	0.00	34915	5846.73	<b>0.51</b>	34915	5846.59	<b>0.37</b>	-0.14	34915	5846.82	<b>0.09</b>	<b>0.23</b>
FHAD XS 137 FEMA lettered section AJ	142267.7	142476.1137	142344.6	142344.6	34915	5846.97	34915	5846.97	0.00	34915	5847.76	<b>0.79</b>	34915	5847.71	<b>0.74</b>	-0.05	34915	5848.09	<b>0.33</b>	<b>0.38</b>
FHAD XS 138	142698.9	142905.1138	142773.5	142773.5	34663	5848.44	34663	5848.44	0.00	34663	5848.85	<b>0.41</b>	34663	5848.82	<b>0.38</b>	-0.03	34663	5849.03	<b>0.18</b>	<b>0.21</b>
FHAD XS 139 FEMA lettered section AK	143060.4	143285.5139	143154.0	143154.0	34412	5849.42	34412	5849.42	0.00	34412	5849.67	<b>0.25</b>	34412	5849.66	<b>0.24</b>	-0.01	34412	5849.77	<b>0.10</b>	<b>0.11</b>
FHAD XS 140	143567.7	143794.014	143662.4	143662.4	34161	5851.53	34161	5851.53	0.00	34161	5851.22	-0.31	34161	5851.22	-0.31	0.00	34161	5851.24	<b>0.02</b>	<b>0.02</b>
FHAD XS 141	143882.2	144108.5	143976.9	143976.9	34161	5852.88	34161	5852.88	0.00	34161	5852.82	-0.06	34161	5852.82	-0.06	0.00	34161	5852.82	0.00	0.00
FHAD XS 142	144326.2	144552.5	144420.9	144420.9	34161	5854.77	34161	5854.78	0.01	34161	5854.78	0.00	34161	5854.78	0.00	0.00	34161	5854.78	0.00	0.00
FHAD XS 143 FEMA lettered section AL	145065.8	145292.1	145160.5	145160.5	33900	5858.46	33900	5858.46	0.00	33900	5858.45	-0.01	33900	5858.45	-0.01	0.00	33900	5858.45	0.00	0.00
FHAD XS 144	145613.8	145840.1	145708.5	145708.5	33658	5861.75	33658	5861.75	0.00	33658	5861.75	0.00	33658	5861.75	0.00	0.00	33658	5861.75	0.00	0.00
FHAD XS 145 FEMA lettered section AM	146281.2	146507.5	146375.9	146375.9	33407	5864.02	33407	5864.02	0.00	33407	5864.02	0.00	33407	5864.02	0.00	0.00	33407	5864.02	0.00	0.00
FHAD XS 146	146842.2	147068.5	146936.9	146936.9	33407	5865.98	33407	5865.98	0.00	33407	5865.98	0.00	33407	5865.98	0.00	0.00	33407	5865.98	0.00	0.00

*138361.5* = Interpolated station

**5830.70** = Interpolated elevation

<sup>1</sup> Effective model from Hess Rd CLOMR no. 10-08-0769P (HEC-RAS v.3.1.3 plan name: as-built PPM)

<sup>2</sup> Duplicate Effective model from Dransfeldt Road CLOMR with extended centerline and 6 cross sections upstream of FHAD XS 140 from Hess Rd LOMR (HEC-RAS v.5.0.7 plan name: 01\_DE\_10-YR/50-YR/100-YR)

<sup>3</sup> Corrected Effective model from Dransfeldt Road CLOMR with extended centerline and 6 cross sections upstream of FHAD XS 140 from Hess Rd LOMR (HEC-RAS v.6.4.1 plan name: 03\_CE\_10-YR/50-YR/100-YR)

<sup>4</sup> Post-Project model from Dransfeldt Road CLOMR with extended centerline and 6 cross sections upstream of FHAD XS 140 from Hess Rd LOMR(HEC-RAS v.6.4.1 plan name: 05\_Pre-Project\_10-YR/50-YR/100-YR)

<sup>5</sup> Salisbury Park Post-Project Conditions Model with 12-03-2024 JVA Phase 1 grading (HEC-RAS v.6.4.1 plan name: 48\_Post-Project\_PH1)