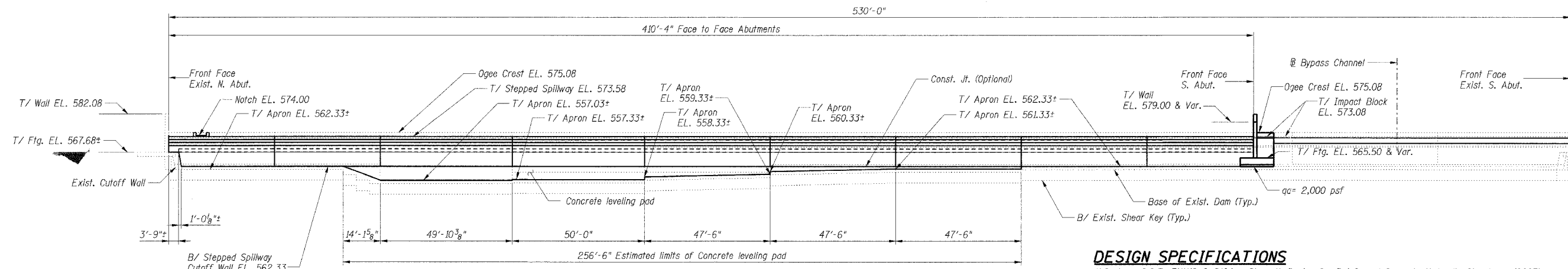


PLAN



VIEW A-A
(Elevation Looking East)

DESIGN SPECIFICATIONS

U.S. Army C.O.E. EM1110-2-2104 - Strength Design for Reinforced Concrete Hydraulic Structures (2003)
U.S. Army C.O.E. EC1110-2-6058 - Stability Analysis of Concrete Structures (2003)

DESIGN LOADING

Load Case	Fox River		Bypass Channel	
	Headwater	Tailwater	Headwater	Tailwater
Case 1 - Normal Operating Condition	577.7	574.7	575.6	575.6
Case 2 - Maintenance Condition	577.7 or 565.0	574.7 or 565.0	575.6 or 565.0	575.6 or 565.0
Case 3 - Seismic Condition	575.6	569.8	572.4	571.0
Case 4 - Design Flood Condition	579.7	578.6	579.0	579.0

(Headwater is upstream and Tailwater is downstream of the existing dam)

DESIGN STRESSES

Concrete, $f'_c = 3,500$ psi
Reinforcement, $f_y = 60,000$ psi
Allowable rock bearing pressure, $Q_{all} = 50$ tsf

SEISMIC DATA

Seismic Coefficient = 0.05g

Designed by RDS, Checked by NK, Drawn by RDS, Checked by NK
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