



HISTORY

Low head dam constructed in late 1830's-1840's

Dam and mill races created a power source for Carpentersville's developing industries

By mid 20th Century electricity replaced dams as the source of power

LET'S GO!

2015

Grant from IDNR awarded for Fabyan Forest Preserve causeway & Carpentersville Dam removals

2019

Engineering contract for the Carpentersville Dam removal is awarded to V3 Companies

2020

Engineering and permitting begins

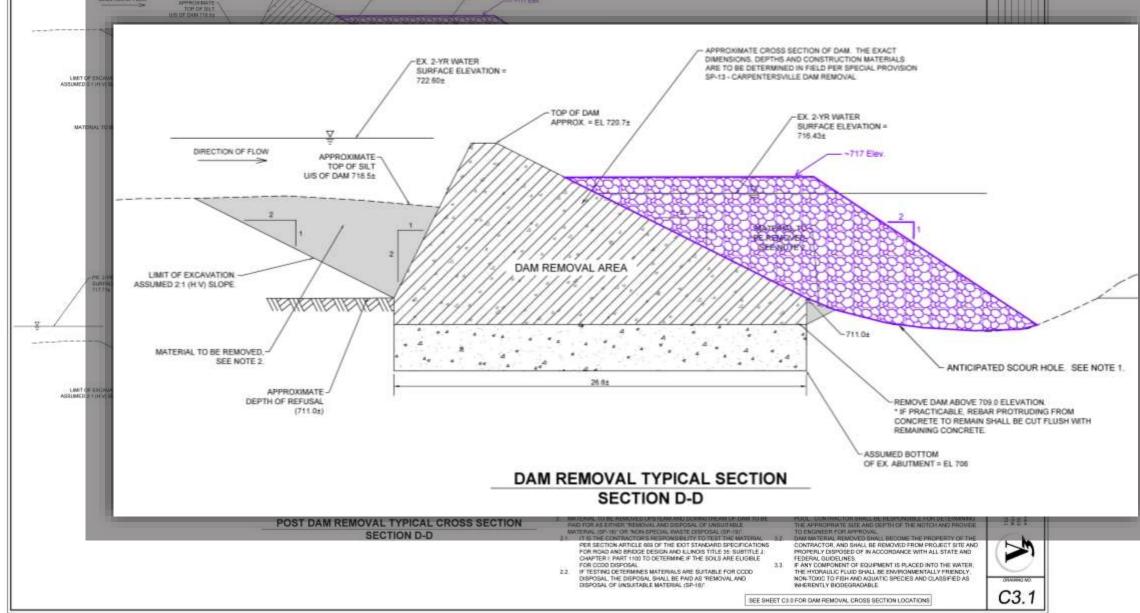
2024

First notch on the dam begins September 20 Dam demolition will be complete and out of the water by November 4

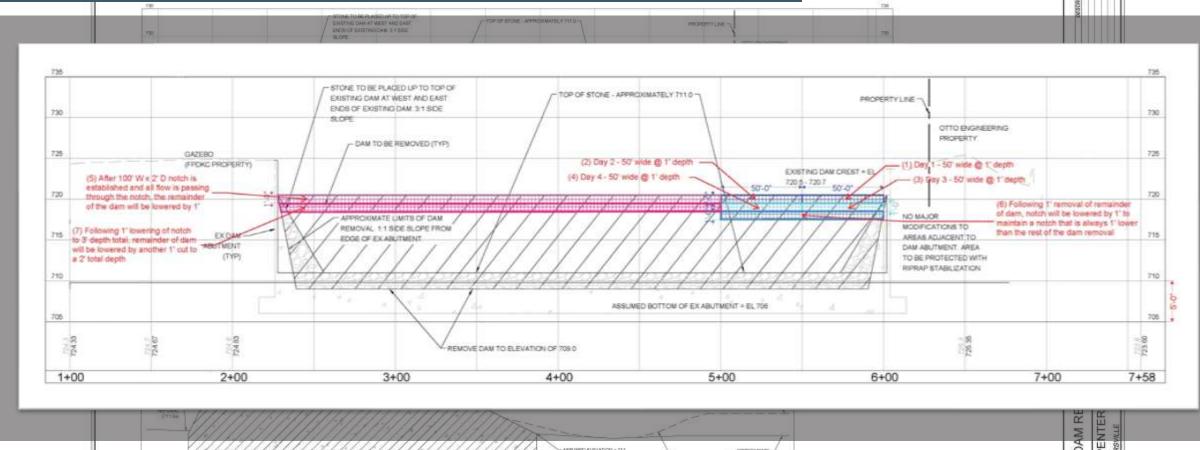


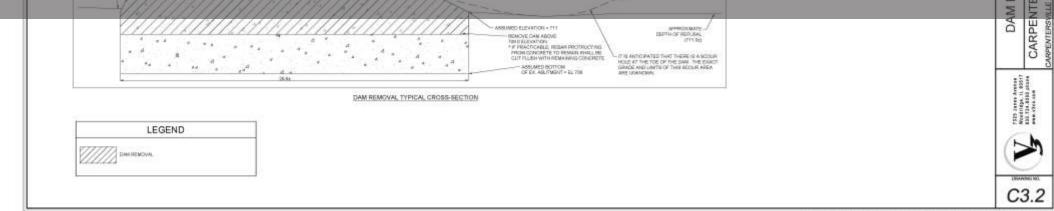
RIVER FLOW DIRECTION REMOVAL PLAN & LIMITS Subsequent cuts ~1' depth PROPERTY BOUNDARY **EXISTING** BETWEEN FPDKC AND BOLLARDS TO BE OTTO ENGINEERING REMOVED 50' wide day 3 @ 1' depth (2' PROPERTY EXISTING PAVILION depth total now) TO REMAIN Additional 50' day 4 @ 1' depth (2' depth total now across 100' Existing Fish Ladder RR4 rip rap SE PRETALLED APPLIAND PERMIET OUTSIDE PROGRAMMENT LIMITS POSITIS; OR OR OR PRIVATE SCHOOL SECTION SAME WORK LIMITS FOREST PRESERVED DISTRICT PROPERTY BOUNDARY Causeway: Temp Chain Link Top elev. ~717.00 Top width ~16" EXISTING BUILDING TO REMAIN AND BE PROTECTED Bottom width ~28' -375 length

REMOVAL PLAN & LIMITS



REMOVAL PLAN & LIMITS









TIMELINE

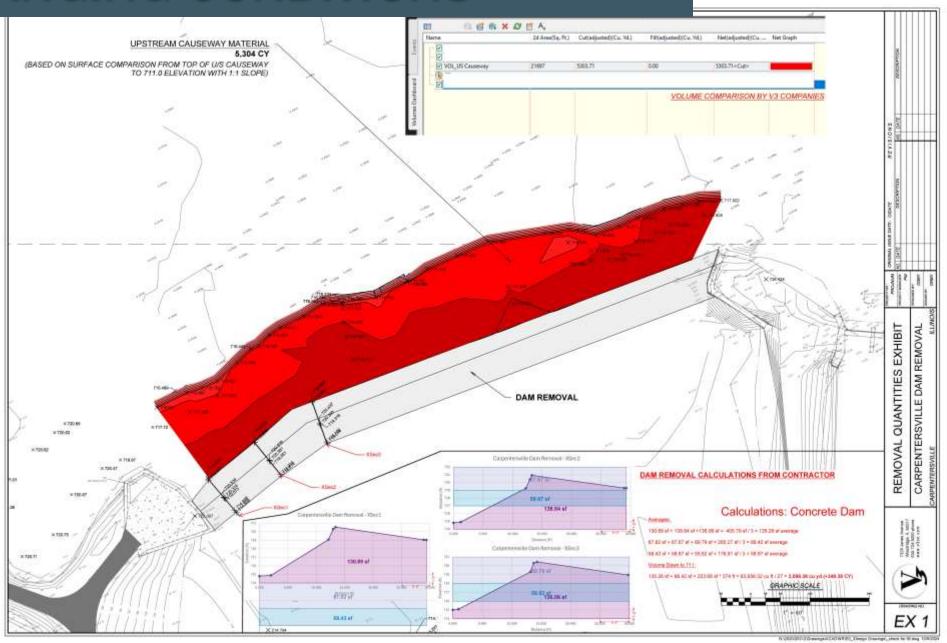
Day 1 (9/20/24)

First notch made

Week 1 (9/23-27)

- Top 2' of dam exposed
- Area behind notch not nicking as expected
- Causeway behind the dam is exposed
- Team begins to understand how the dam was constructed

CHANGING CONDITIONS



CHANGING CONDITIONS

UIS CAUSEWAY REMOVAL VOLUME

TOTAL REMOVAL = 382.6 BF x 374 LF = 5,300 CY

TIMBER REMOVAL: ASSUMES APPROXIMATELY 43.3 SF, 1FT WIDE, EVERY 10 FEET

43.3 SF x 374 LF x 1/10 = 60 CY

ASSUME 0.54 TONS PER CY = 60 CY X 0.54 = 32.4 TONS

STONE REMOVAL: 5.300 CY - 60 CY = 5.240 CY

ASSUME 1.65 TONS PER CY = 5240 CY x 1.65 = 8.646 TON

DAM REMOVAL VOLUME

TOTAL REMOVAL VOLUME = 223.7 SF x 374 LF = 3,099 CY

DAM DEMOLITION AND REMOVAL = 1,475 CY CONCRETE REMOVAL = 35.4 SF x 374 LF = 490 CY

TIMBER REMOVAL

= 6" x 6.15" TALL x 374 + 6" x 6" x 25" HORIZONTAL MEMBER (SPACED EVERY 6 FT - 75 TOTAL)

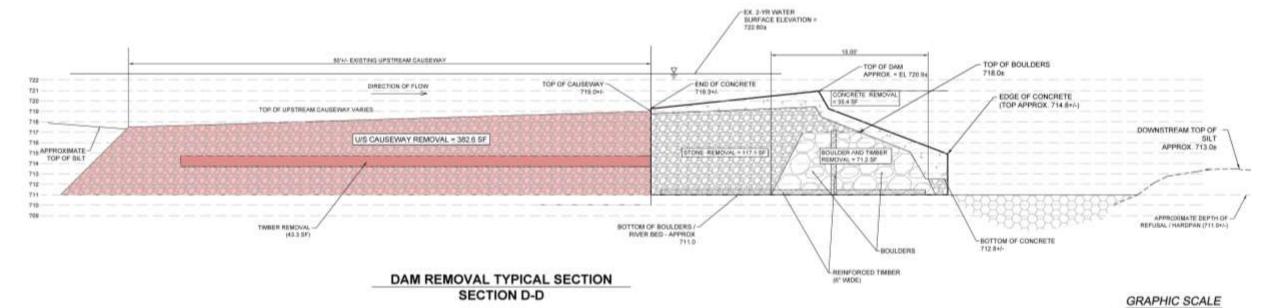
HORYZONTAL:

= 42.8 CY + 17.4 CY = 60 CY

BOULDER REMOVAL = 71.2 SF x 374 LF - TIMBER REMOVAL = 985 CY - 60 CY = 926 CY

BANK RUN MATERIAL (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)

= 117.1 SF x 374 LF = 1,624 CY







TIMELINE

Week 2 – Friday 10/4





Week 3 (10/7-11)

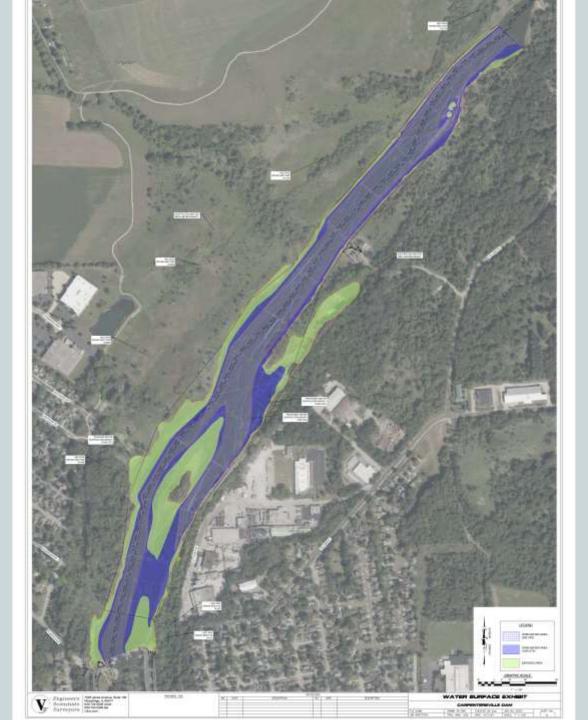
- Concrete is almost gone
- More Shoreline
- Mussels exposed
- Begin removal of causeway
- What to do with all the boulders?



Week 4 (10/14-18)

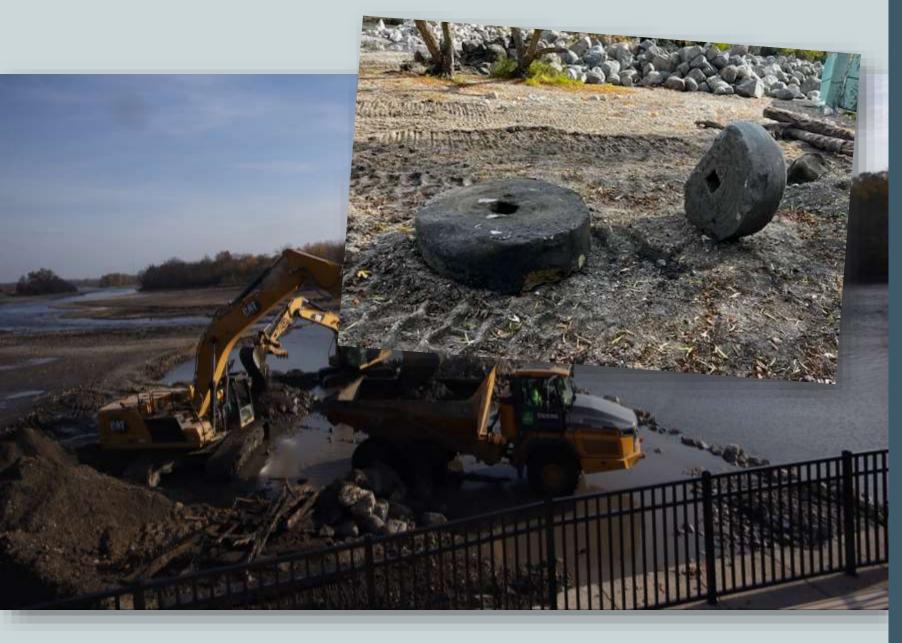
Week 5 (10/21-25)

- Moving along
- More shoreline as the drought continues
- Community Clean-up events
- Contract negotiations & change orders



Projected Water Surface Exhibit

- Channel appears to be stronger east of the island
- Green area: Water levels before dam removal – New Shoreline
- Light Blue: Open water @ 500 CFS
- Dark Blue: Open water@ 1,000 CFS



Week 6 (10/28-11/1)

- Almost Gone
- November 1, begin Chain O'Lakes winter drawdown
- Never know what you'll find



SHORELINE CLEANUP

Join Friends of the Fox River and the Forest Preserve District of Kane County

for 2 opportunities to help with shoreline cleanup.

End of season low water levels have exposed a plethora of debris.

One's trash is another's treasure – you never know what you might find!

Be prepared for muddy

conditions

Bring your gloves and available cleanup tools



Thursday 10.24.24 and Saturday 10.26.24 11am - 2pm



Fox River Shores
Forest Preserve
N. Williams Rd, Carpentersville



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