

WYLIE BROOK STREAM RESTORATION PROJECT

COLLABORATION OF AGENCIES:

CHENANGO COUNTY SWCD

UPPER SUSQUEHANNA COALITION

USDA FARM SERVICE AGENCY

USDA NATURAL RESOURCES CONSERVATION
SERVICE



SITE DESCRIPTION & EXISTING CONDITION



LOCATION: TOWN OF COVENTRY
ALONG WYLIE BROOK, C(T)

PREVIOUS DAIRY FARM ~270
ACRES

WYLIE BROOK & ITS TRIBUTARIES ARE
UNIQUE BECAUSE OF THE NATIVE
BROOK TROUT POPULATIONS.

JOSLYN ROAD BISECTED FARM & WAS
ABONDED BY THE TOWN DECADES
AGO

AMONG THE ROAD REMAINS WERE THE
CONCRETE BRIDGE ABUTMENTS

A LARGE CAFO CURRENTLY RENTS THE
CROP FIELDS AND SPREADS MANURE
WHILE THE LANDOWNER MOWS THE
"HISTORIC" PASTURES.

PROJECT TIMELINE - RETROSPECTIVE





**PERMIT
REQUEST
SPRING 2018**

- Discuss landowner's objectives
- Met with USC and DEC
- Concluded the best course of action is to address stream from bridge to bridge
- Gauge USC's interest in pursuing the project



**PASTURE FENCE -
TOP STREAMBANK**

**REDIRECTION OF
STREAM TO AVOID
PASTURE/HAY FIELD**

**HISTORY OF STREAM ALTERATION
FROM BRIDGE MAINTENANCE**

BANK INSTABILITY





**BANK EROSION ON THE OUTSIDE BEND
EXTENDS TOWARD ROUTE 235 AND IS ABOUT
500' IN LENGTH**

MASSIVE SCOUR BEHIND CONCRETE ABUTMENT

TONS OF SEDIMENT SENT DOWN THE BROOK

**FLOW IN THE MAIN CHANNEL OBSTRUCTED BY
SEDIMENT DEPOSITION**

ABUTMENT TRAPS DEBRIS



06/17/2019 09:26

PROJECT TIMELINE - RETROSPECTIVE

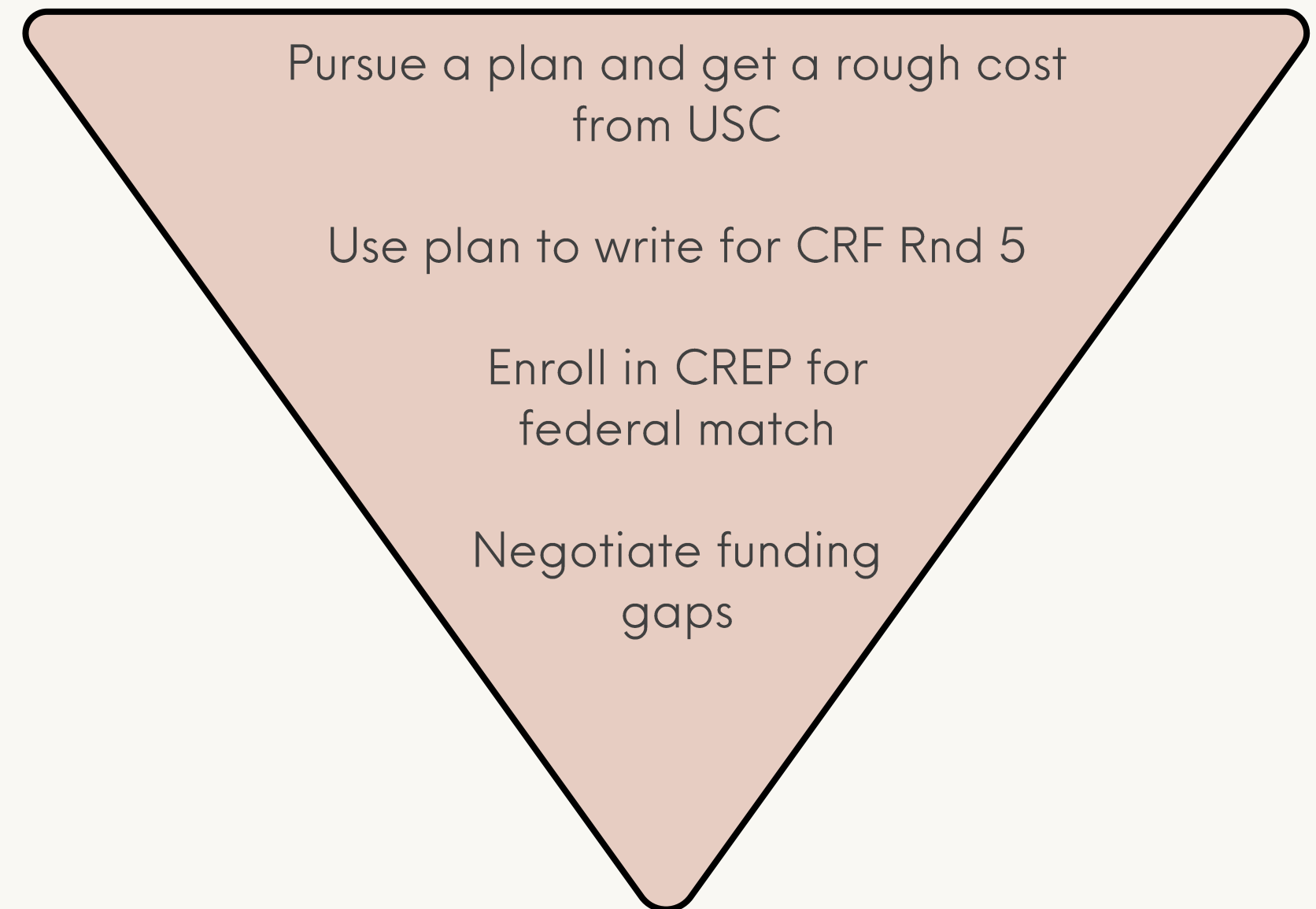


LANDOWNER INITIATES

- Discuss landowner's objectives
- Field visit with USC and DEC
- Concluded the best course of action is to address stream from bridge to bridge
- Gauge USC's interest in pursuing the project

DECISION

- Consider & communicate project feasibility to landowner
- Identify the risks and responsibilities of each stakeholder
- Landowner concession conversation
- Make a decision

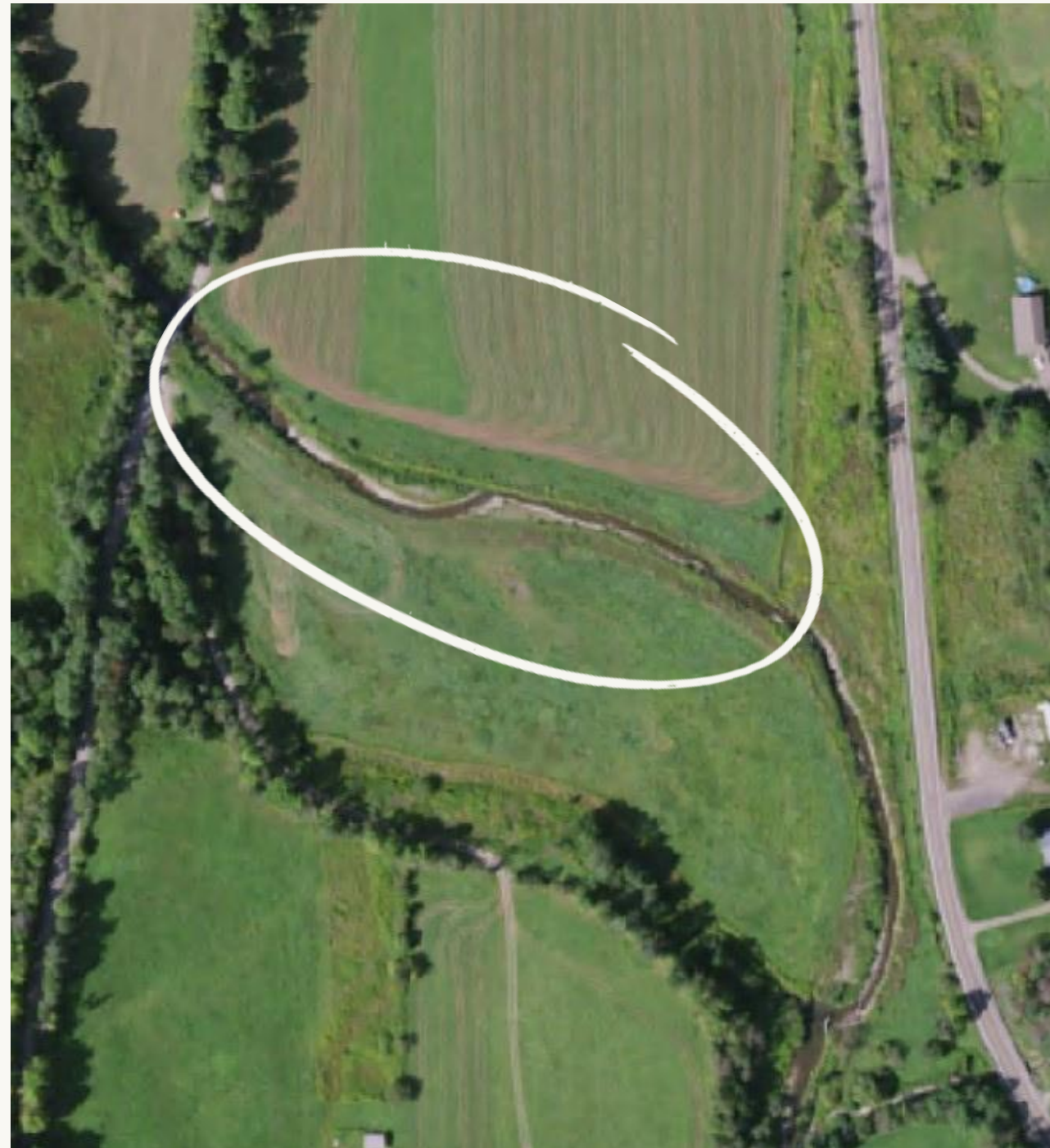




**PLAN
FUND
DESIGN
2019-2021**

GATHER RESOURCES

- USC stream team conducts survey, initial plan and develops a cost estimate.
- High confidence of successful CREP
- Used cost estimate and wrote Rnd. 5 grant application and was funded.
- Plan for future CREP contract.
- Design completed USC staff.
- Permit application submitted by USC staff.



SECTION A

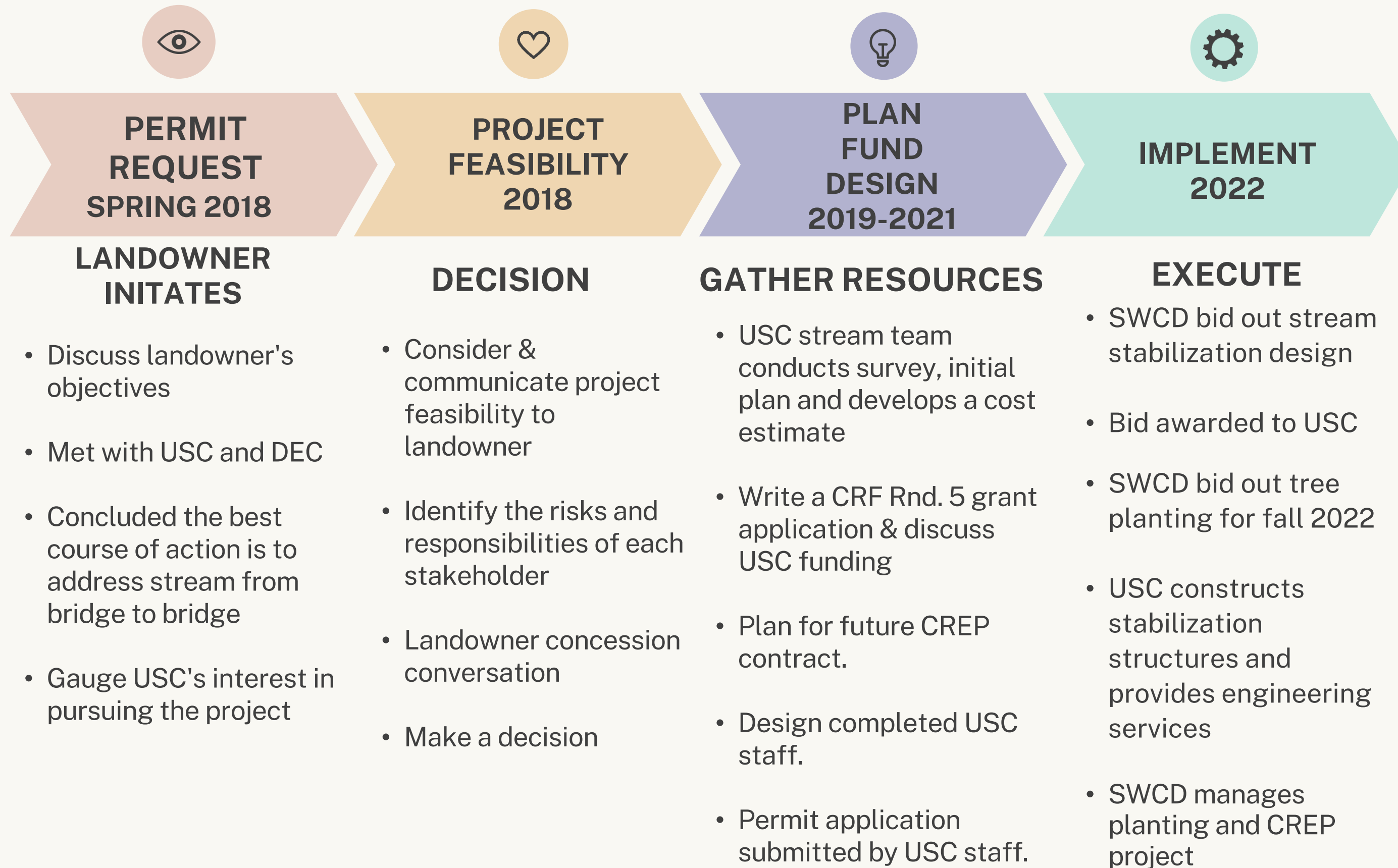
350' RIPRAP
CONSTRUCTED RIFFLE/WEIR
8 BARBS



SECTION B

400' RIPRAP
ABUTMENT REMOVAL
8 BARBS
STREAM REALIGNMENT
WILLOW TRENCHES

PROJECT TIMELINE - RETROSPECTIVE



SECTION A RIPRAP INSTALLATION



SECTION A :
AT GRADE CROSSING
BARBS
WILLOW TRENCHES



SECTION B
RIPRAP



SECTION B - STREAM REALIGNMENT AND ABUTMENT REMOVAL



BUFFER PLANTINGS:

10.8 ACRES

1,875 TUBELINGS

100- 3 GALLON CONTAINER TREES

PLANTING COST: \$32,157.76



PROJECT TIMELINE - RETROSPECTIVE

