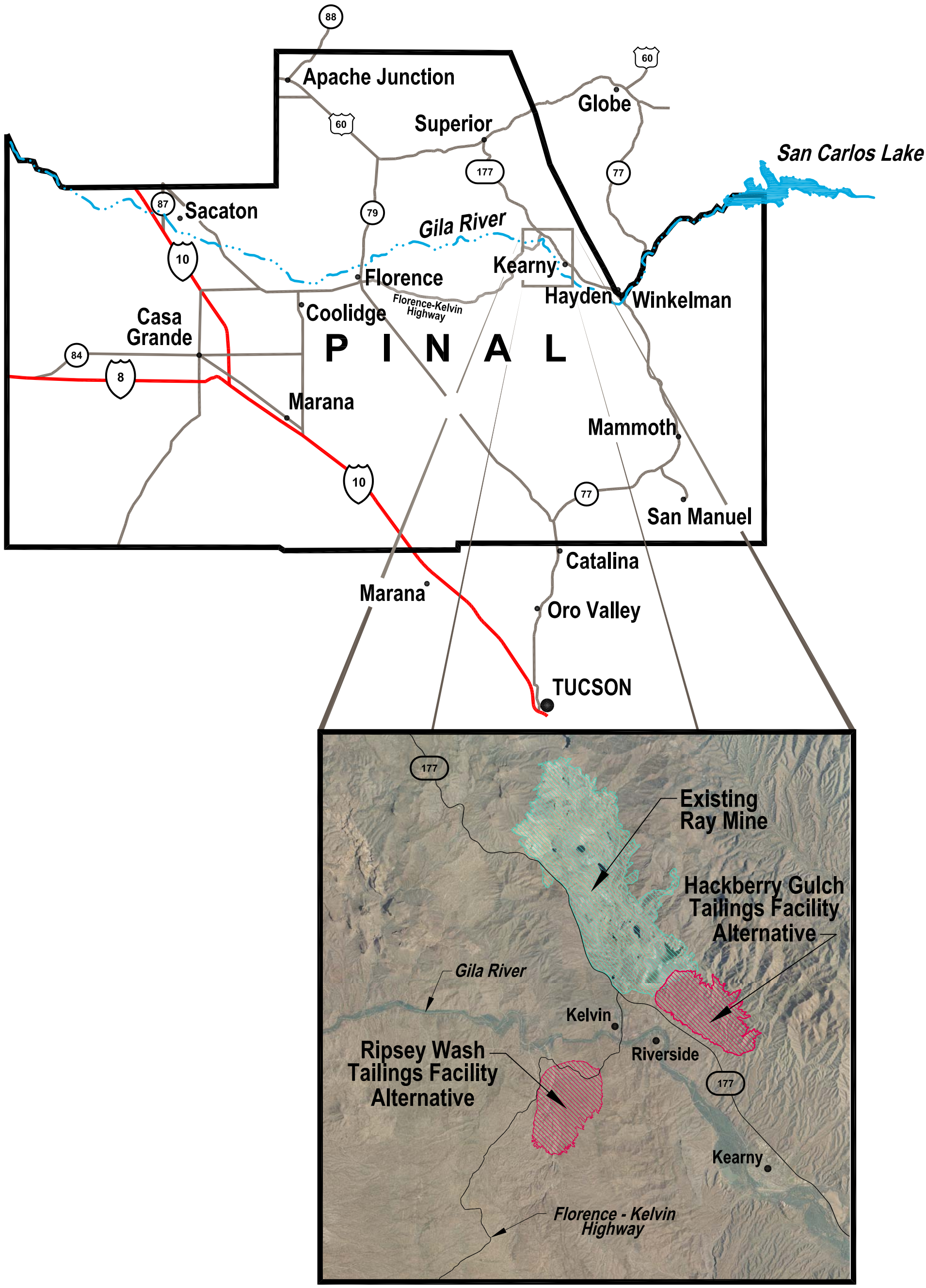


Figure 1
General Location Map

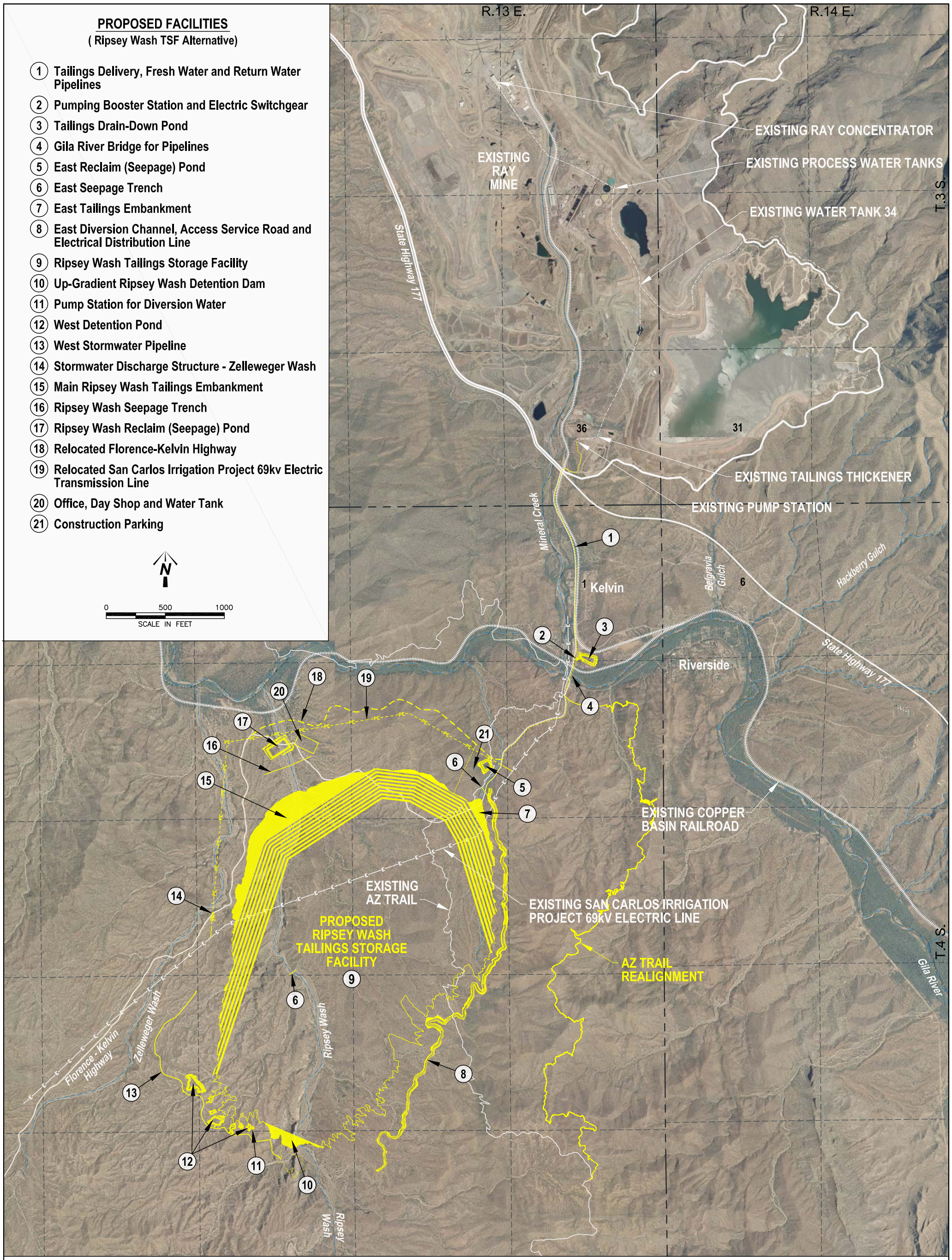
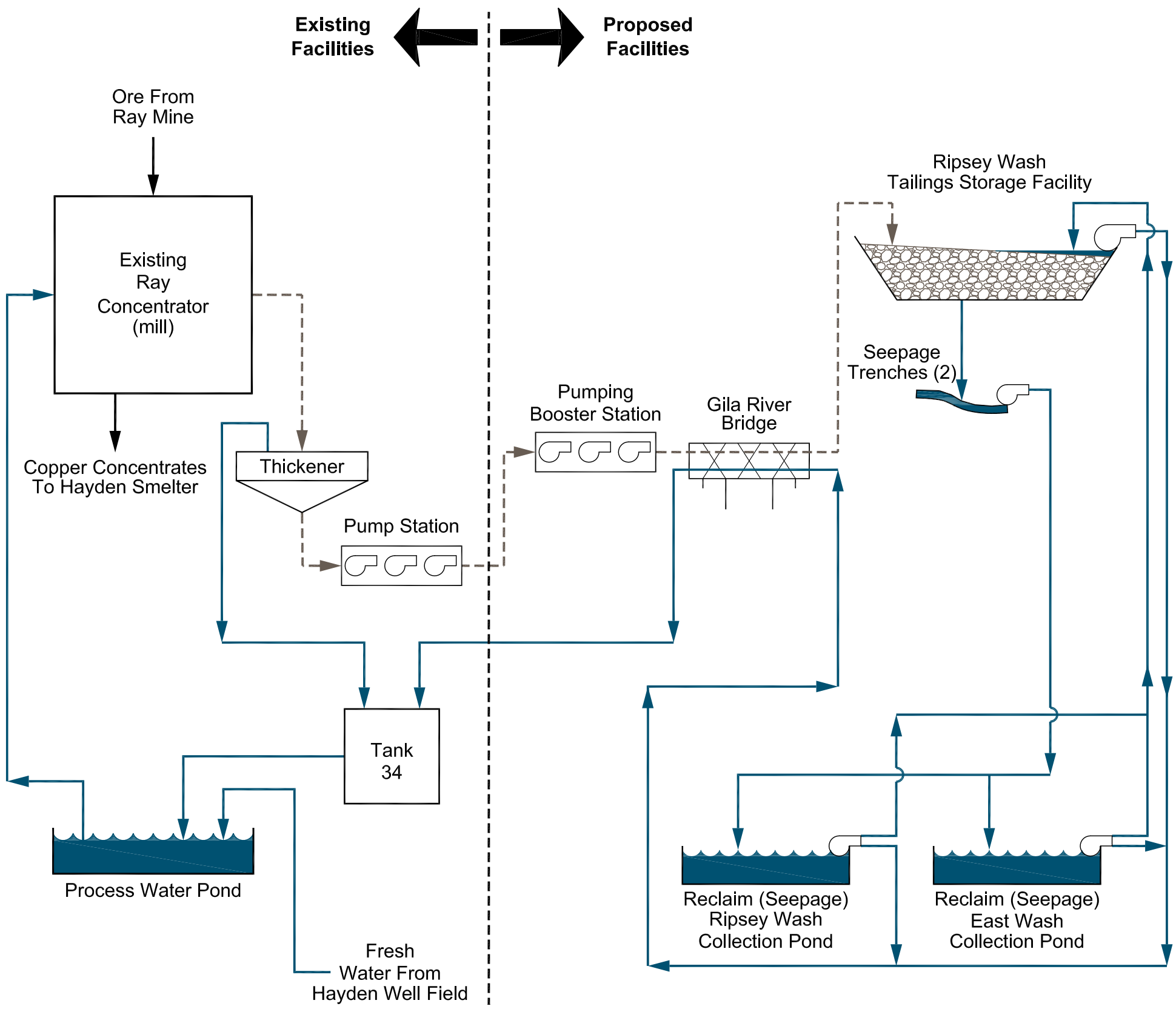


Figure 2
Site Plan Layout - Ripsey Wash TSF



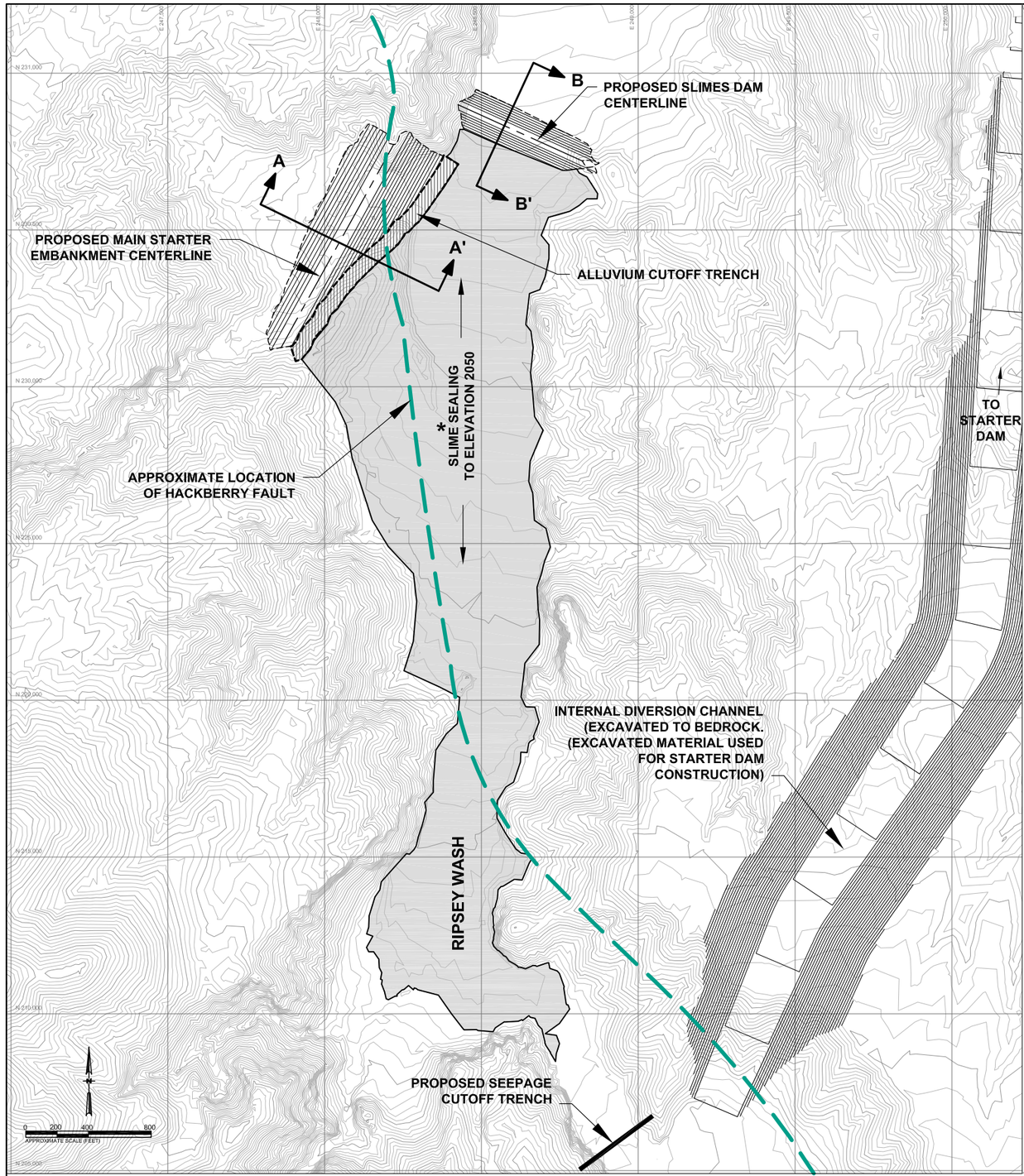
LEGEND

- - - - - - Tailings Delivery Pipelines

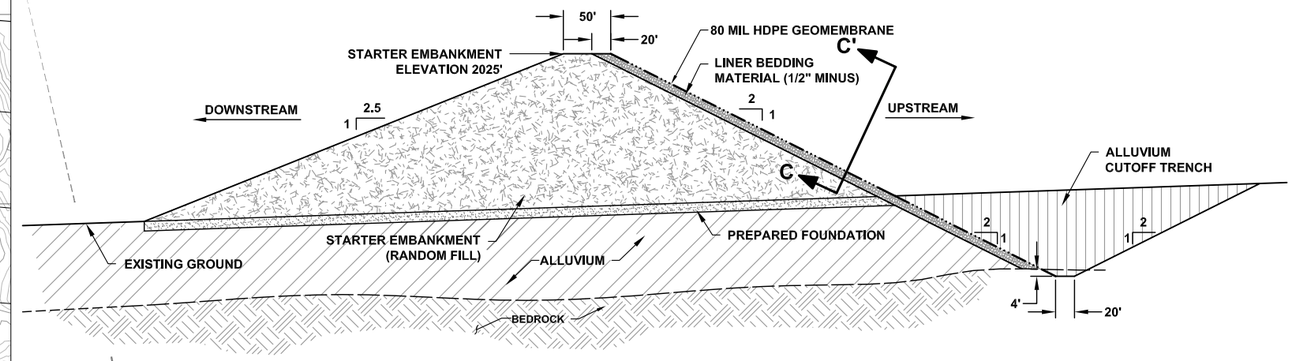
——— Return Water Pipelines

Note: See Figure 2, Site Plan Layout - Ripsey Wash TSF.

Figure 3
Process Flow Sheet - Ripsey Wash TSF

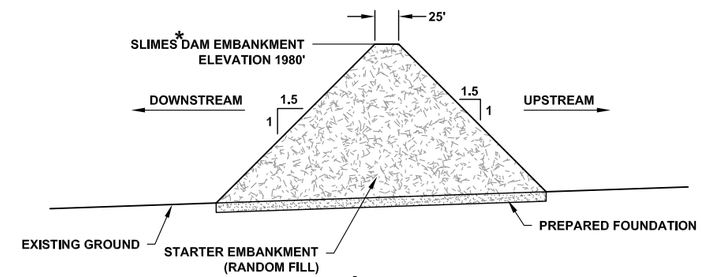


DRAFT DESIGN DRAWINGS COURTESY OF AMEC. (FROM RAY MINE TSF APP)



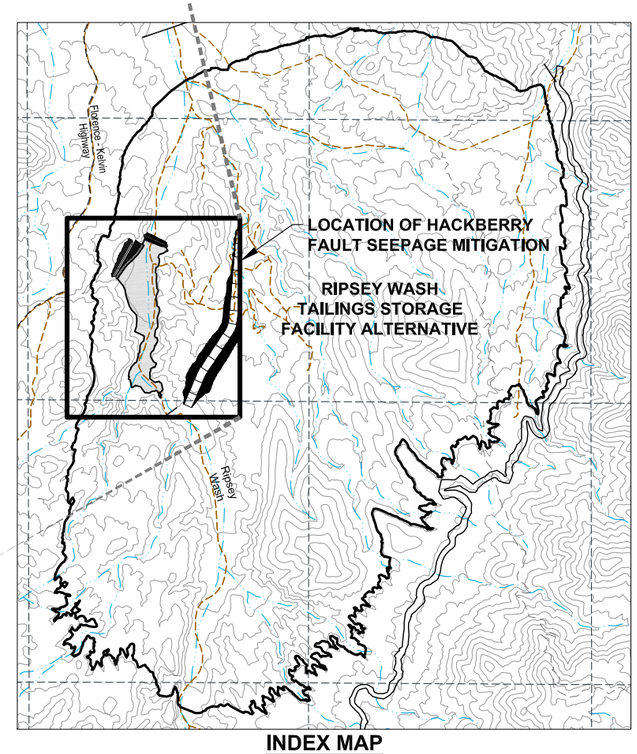
A-A' - TYPICAL MAIN STARTER EMBANKMENT CROSS SECTION

(NOT TO SCALE)

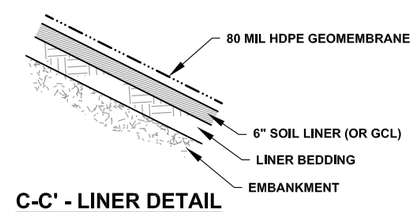


B-B' - TYPICAL SLIMES* DAM CROSS SECTION

(NOT TO SCALE)



INDEX MAP



C-C' - LINER DETAIL

(NOT TO SCALE)

LEGEND:

- 3750 — EXISTING GROUND SURFACE CONTOUR EL, FEET
- 100 — PROPOSED STARTER EMBANKMENT GROUND SURFACE CONTOUR EL, FEET
- EMBANKMENT CENTERLINE

* NOTE: SLIMES ARE THE VERY FINE PARTICLE SIZING OF TAILINGS. THEY ARE SLOW TO SETTLE OUT BUT FORM A LOW PERMEABILITY BARRIER SIMILAR TO CLAY LINER (APPROXIMATELY 10 cm/sec).

Figure 4
Hackberry Fault Seepage Mitigation

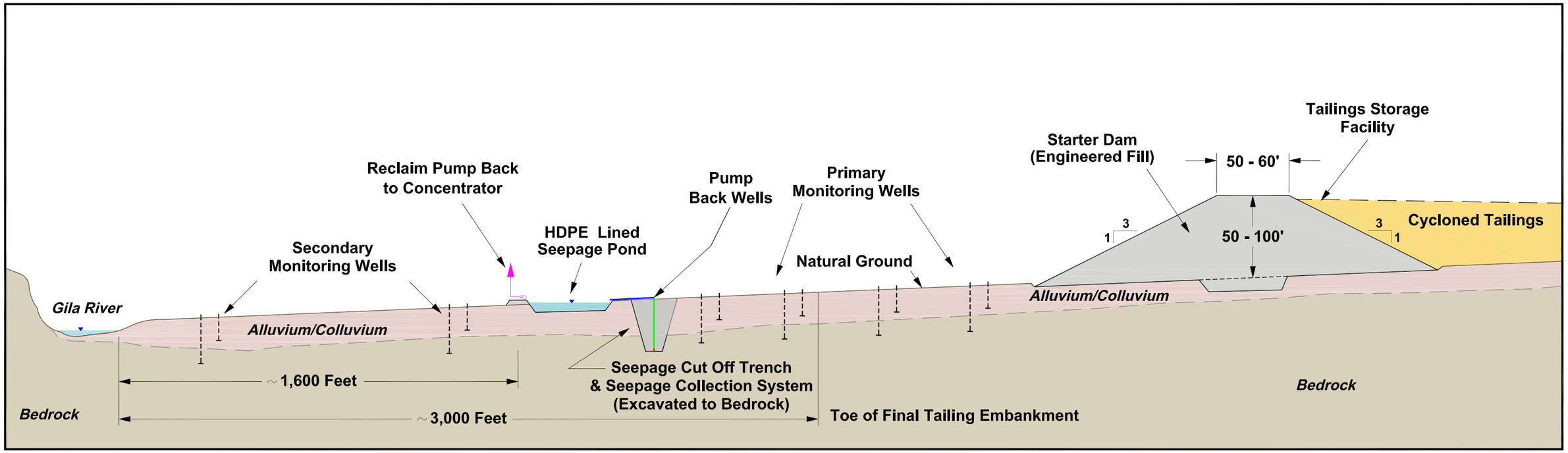
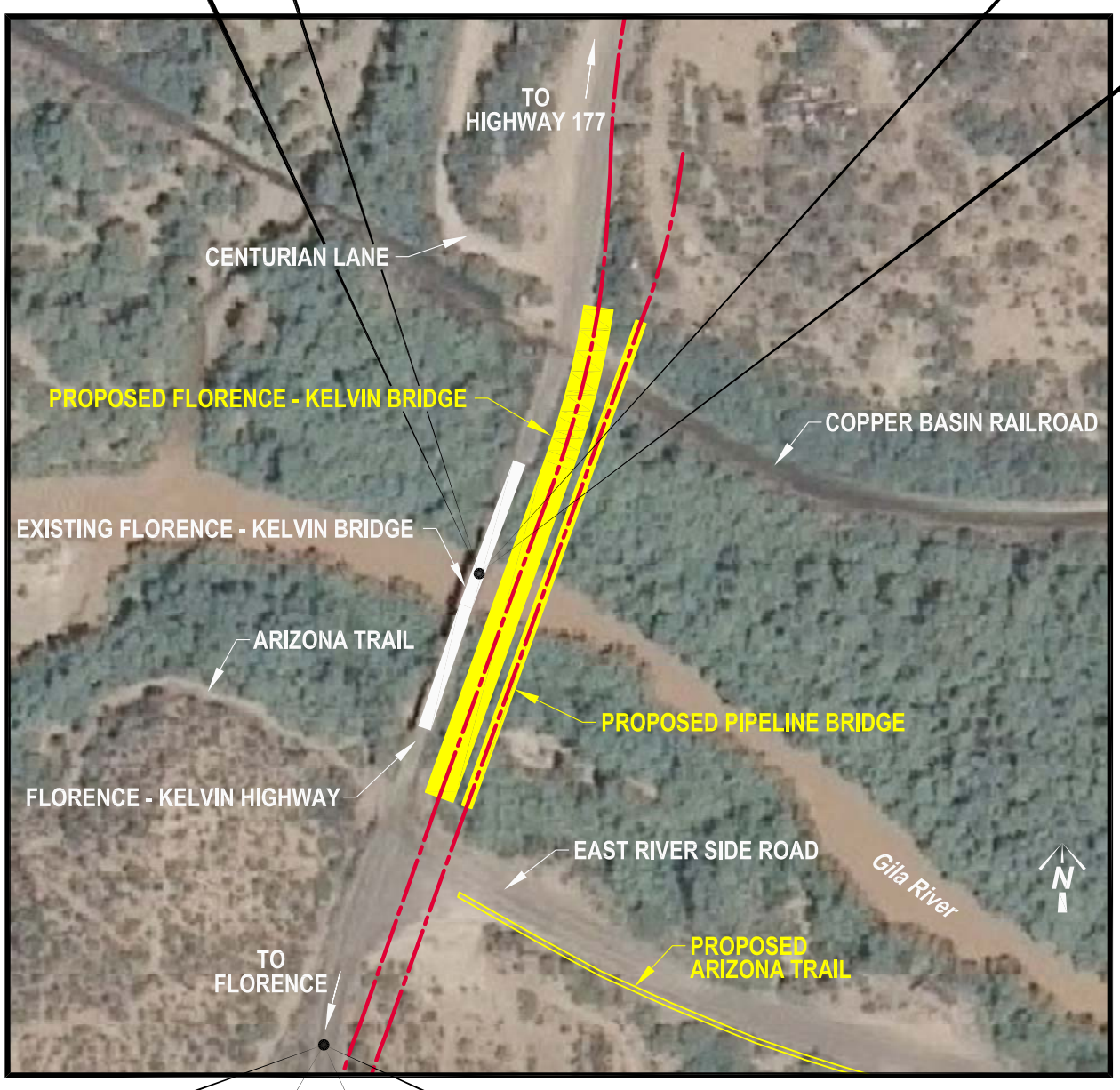
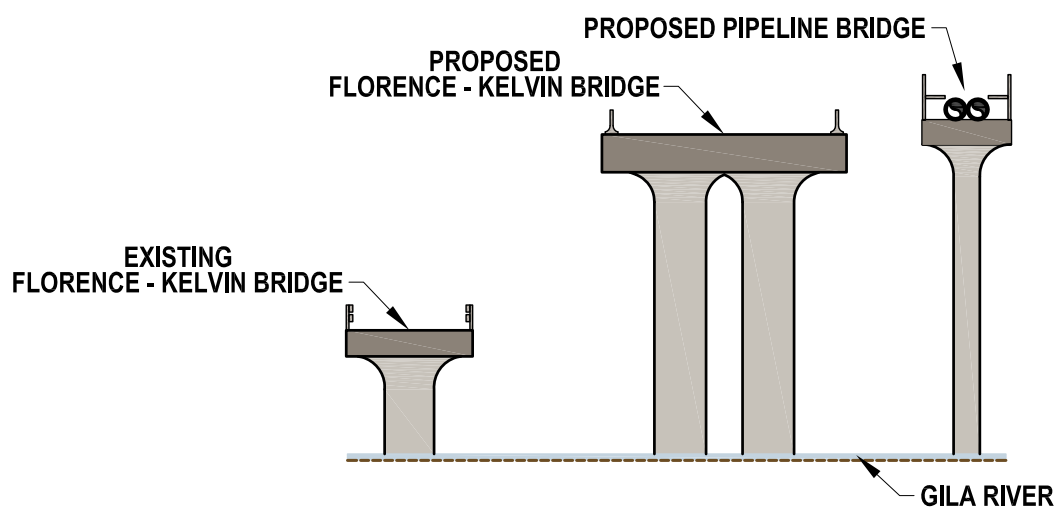
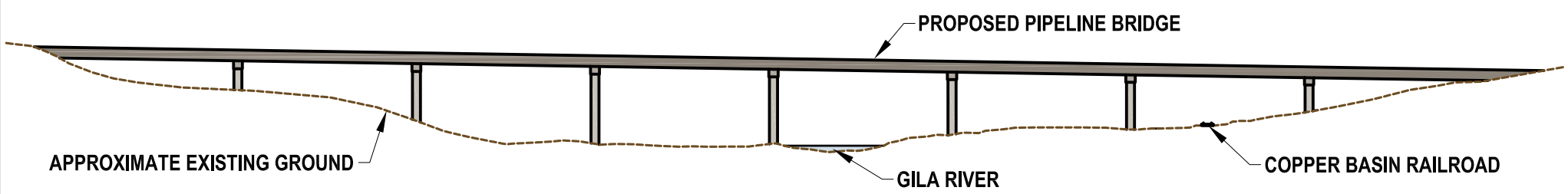


Figure 5
Schematic for Seepage Trenches and Reclaim Ponds





TYPICAL BRIDGE SECTION



TYPICAL PIPELINE BRIDGE SECTION

Figure 6
Gila River Tailings/Return Water Pipeline Bridge

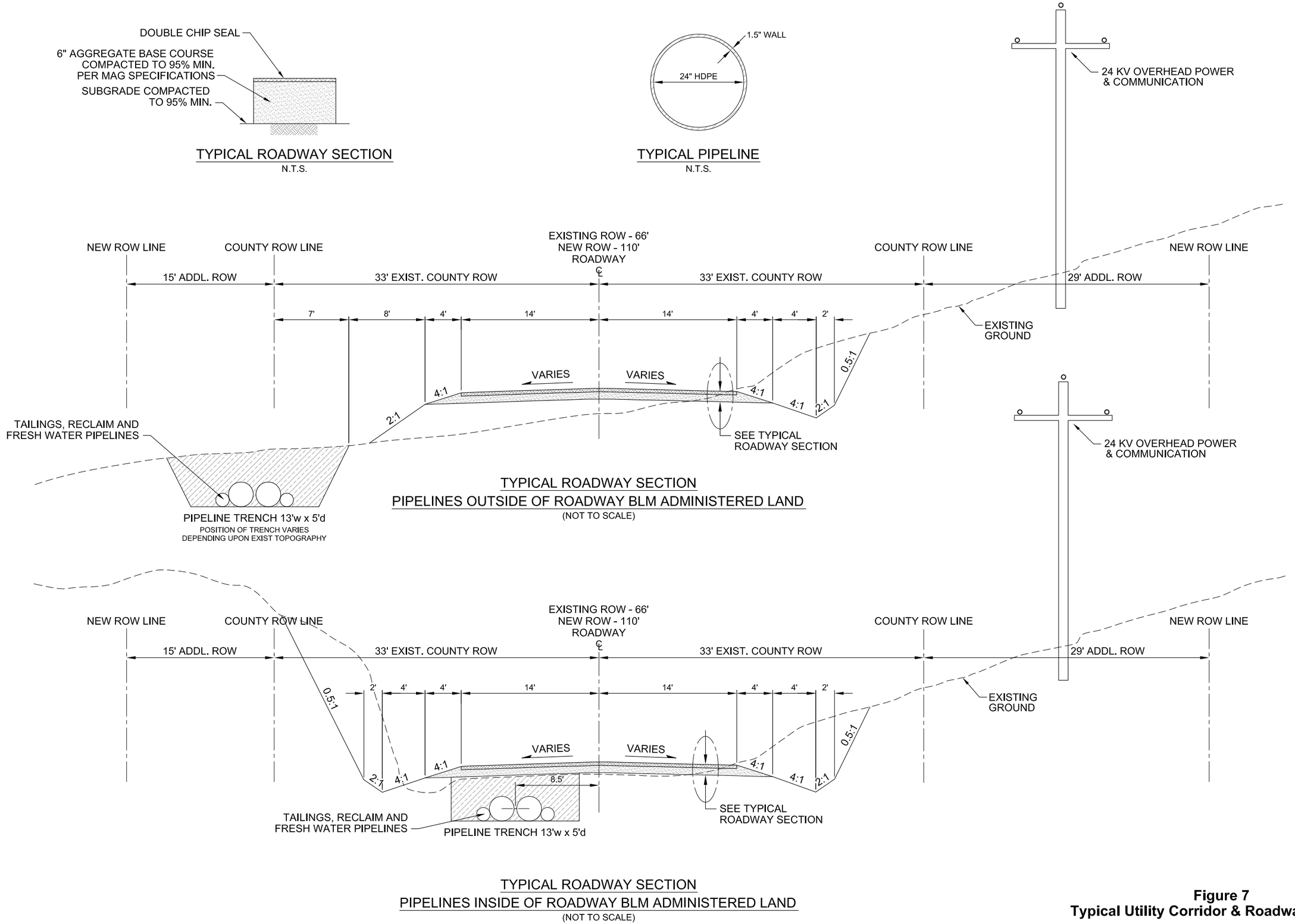
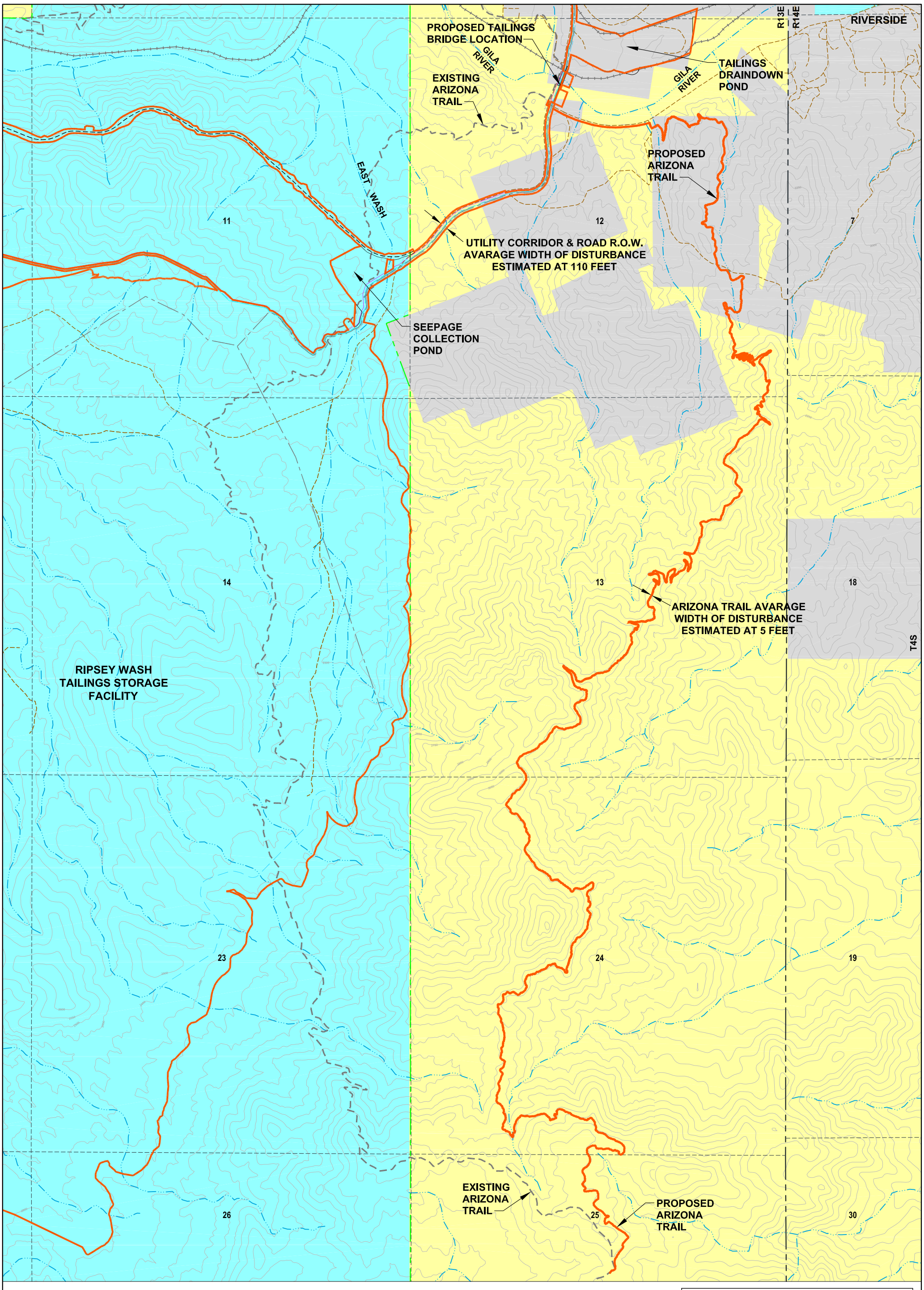


Figure 7
Typical Utility Corridor & Roadway Sections



LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET
- EXISTING DRAINAGES
- EXISTING RAILROAD
- EXISTING ROAD
- EXISTING TRAIL/UNIMPROVED ROAD
- PROPOSED LIMITS OF SURFACE DISTURBANCE
- PROPOSED TAILINGS DELIVERY PIPELINE
- PROPOSED RECLAIM PIPELINE
- PROPOSED ELECTRICAL LINE

DISTURBED AREA
RIPSEY WASH TSF LAND OWNERSHIP

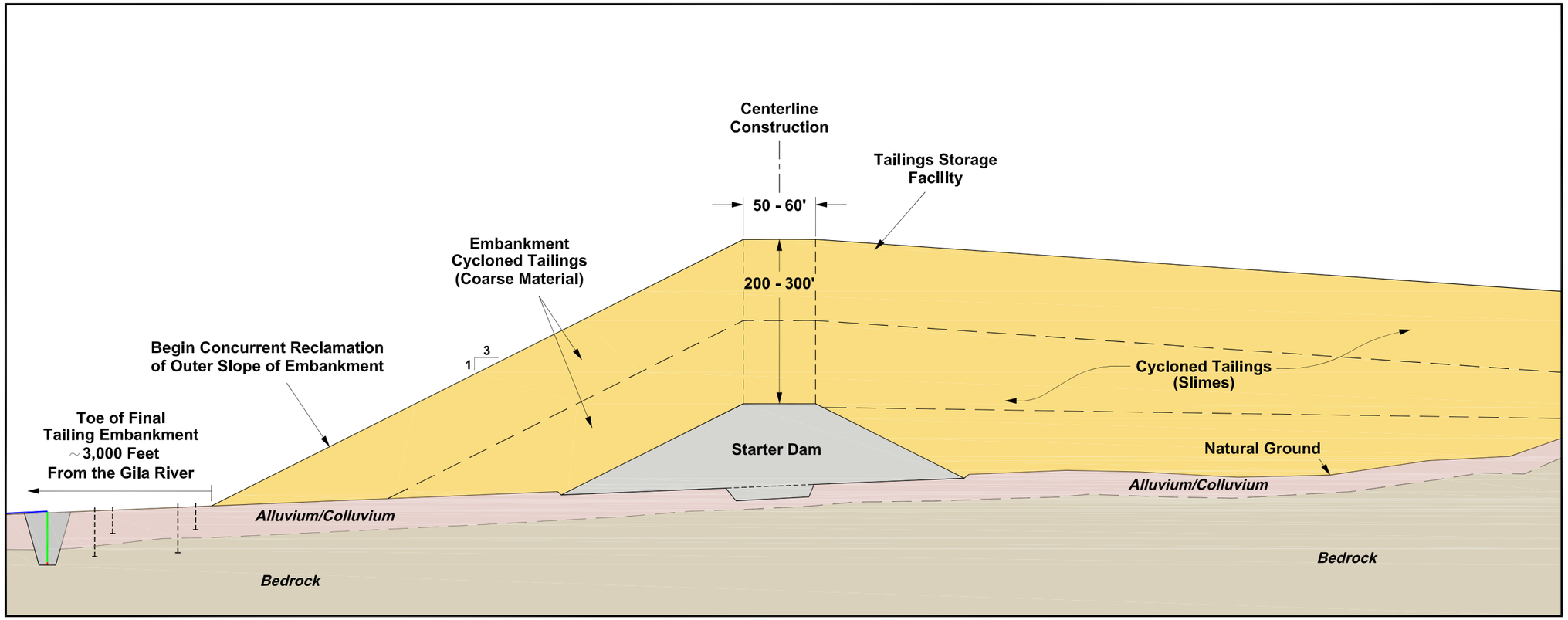
- Lands Administered by Bureau of Land Management
- Private Land
- State Trust Land

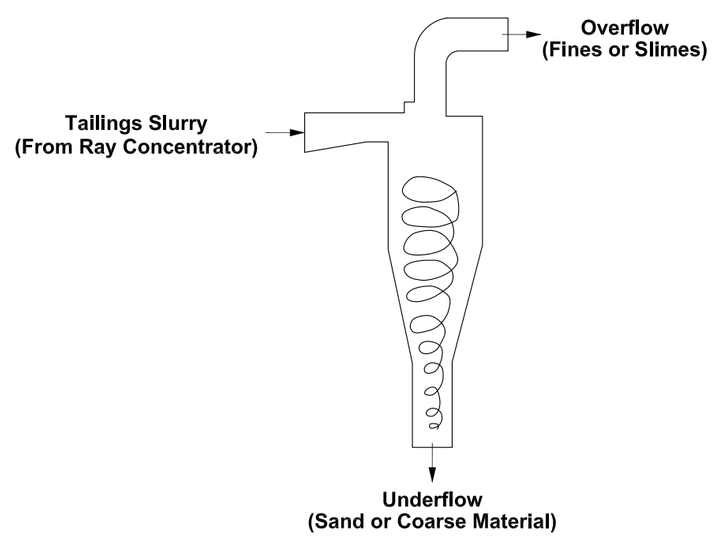
N

0 300 600 1200
APPROXIMATE SCALE (FEET)

Disturbance of BLM Administered Land	
Arizona Trail Right-of-Way	3 Acres
Pipeline Corridor Right-of-Way	6 Acres

Figure 8
BLM Land Ownership - Pipelines and Arizona Trail





Cyclone Schematic

Figure 9
Centerline Tailings Embankment Construction

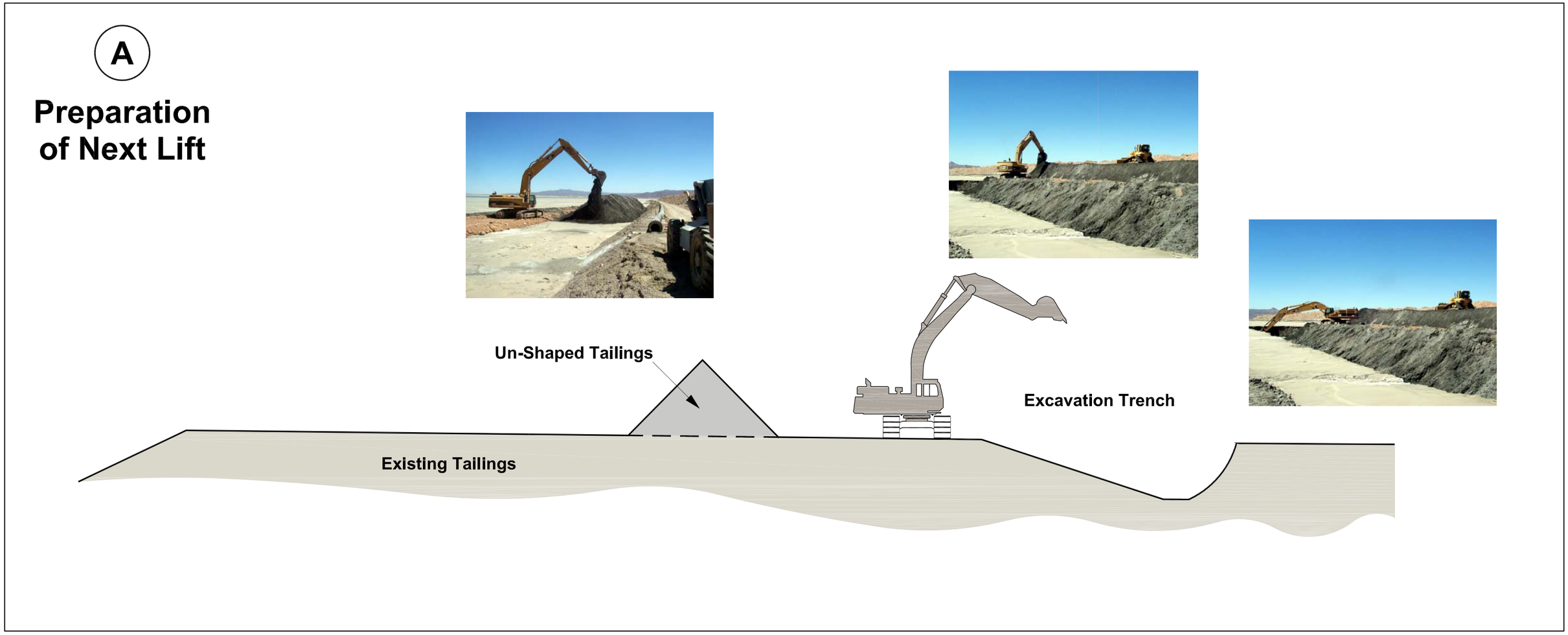


Figure 10
Upstream Tailings Embankment Construction
(sheet 1 of 4)

B

Embankment Grading to 2H : 1V Slope

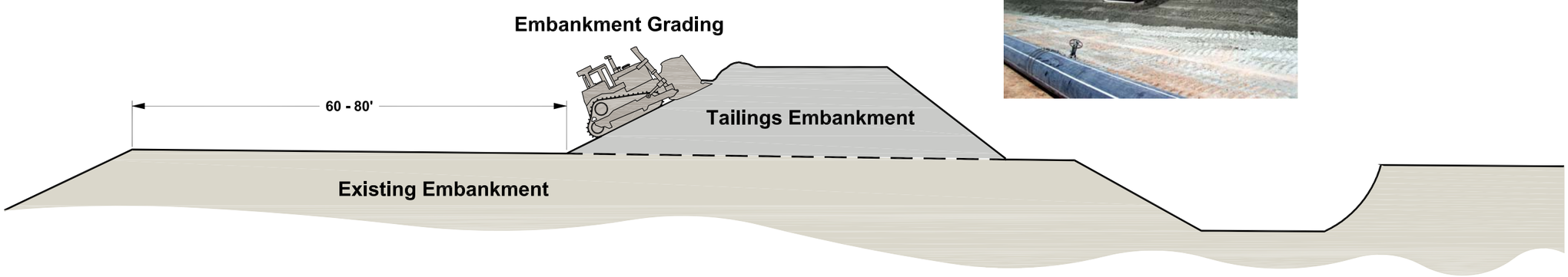


Figure 10
Upstream Tailings Embankment Construction
(sheet 2 of 4)

C

Placing of Main Pipeline & Distribution Pipes

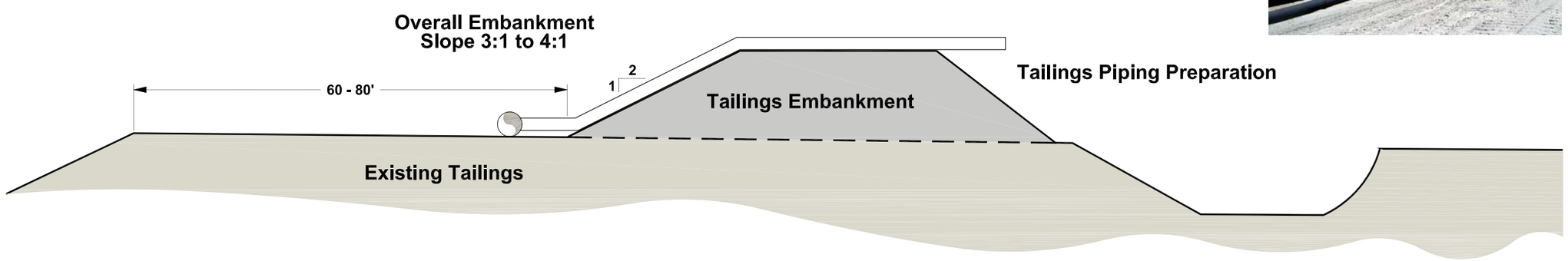


Figure 10
Upstream Tailings Embankment Construction
(sheet 3 of 4)

D

Delivering Tailings

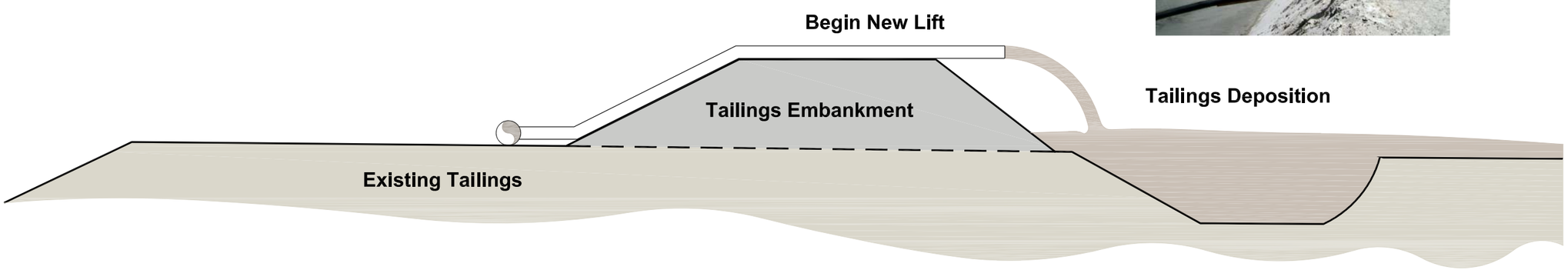


Figure 10
Upstream Tailings Embankment Construction
(sheet 4 of 4)