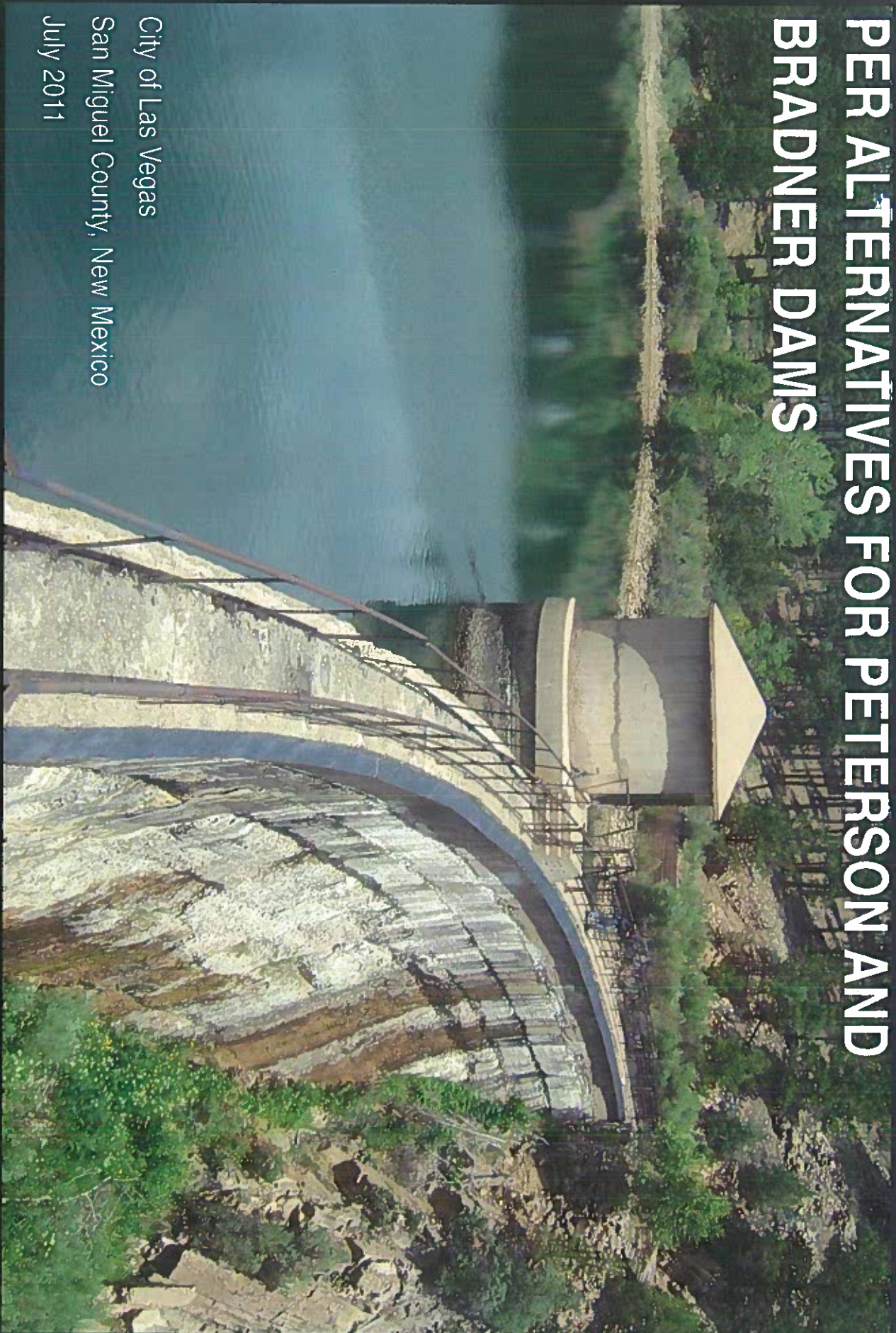
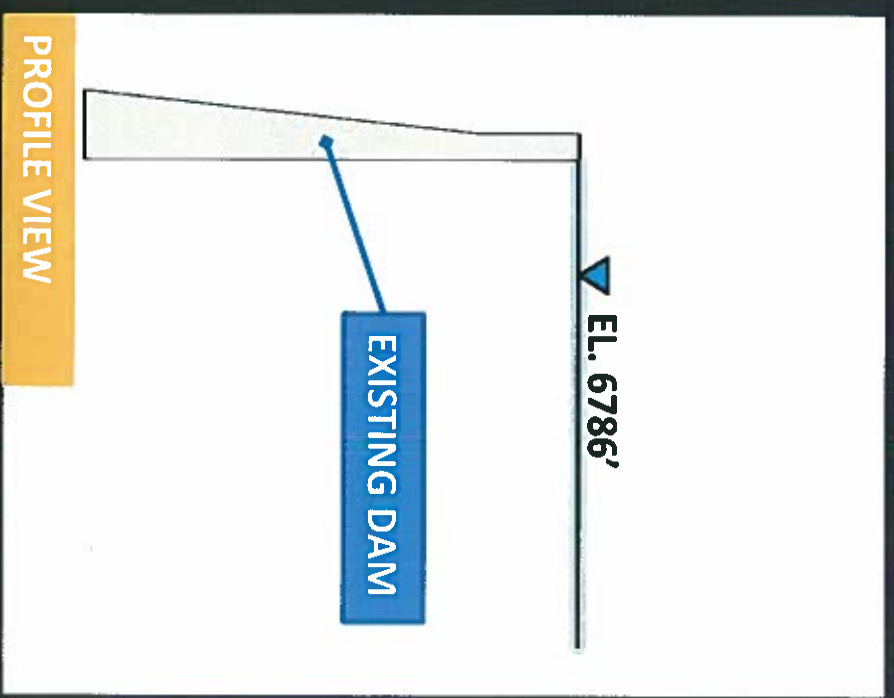
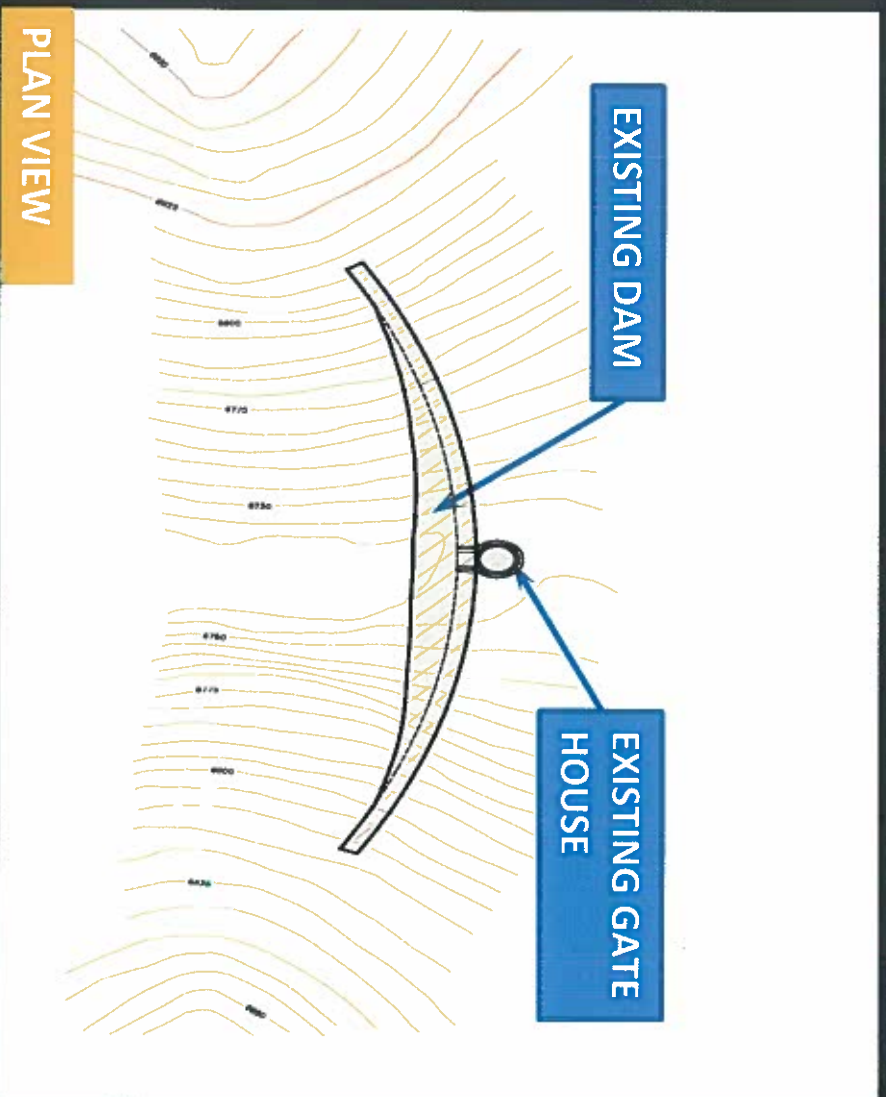


PER ALTERNATIVES FOR PETERSON AND BRADNER DAMS



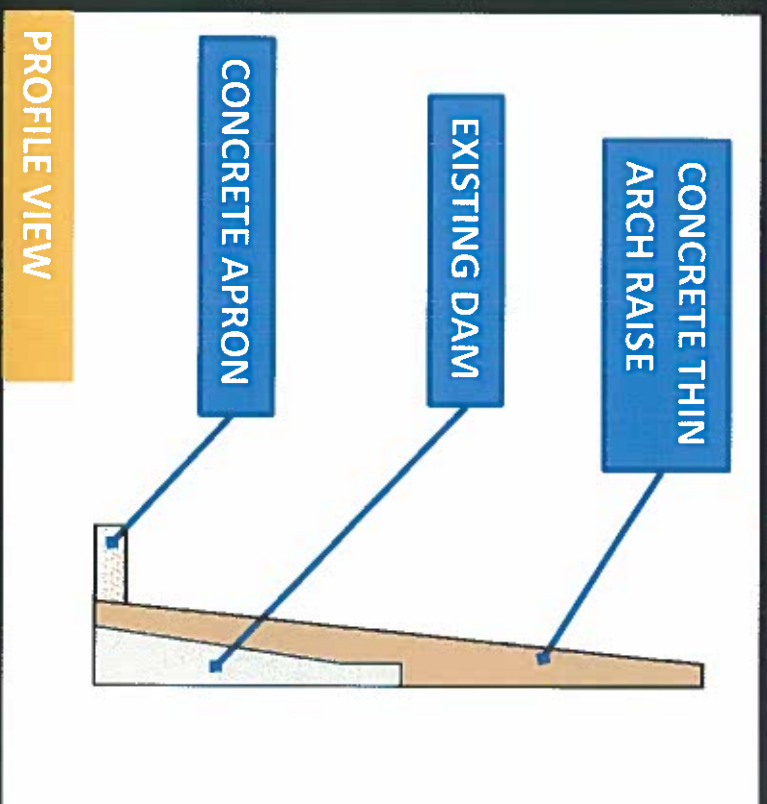
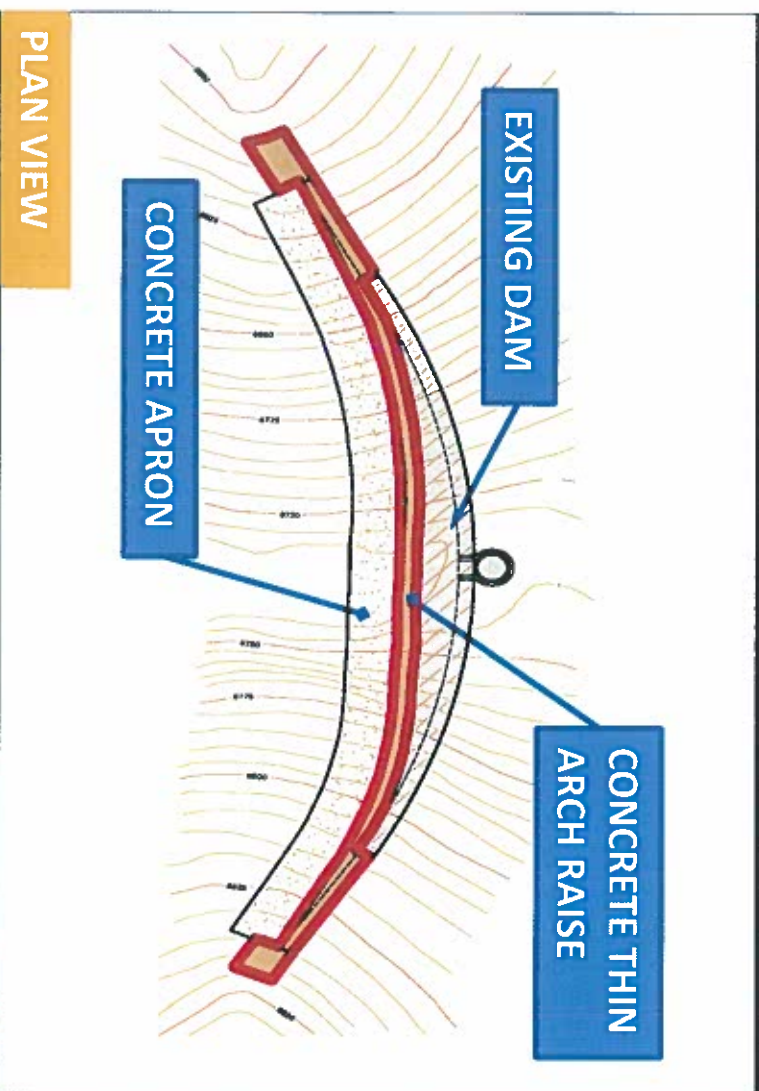
City of Las Vegas
San Miguel County, New Mexico
July 2011

PETERSON DAM EXISTING CONDITION (PLAN & PROFILE VIEW)



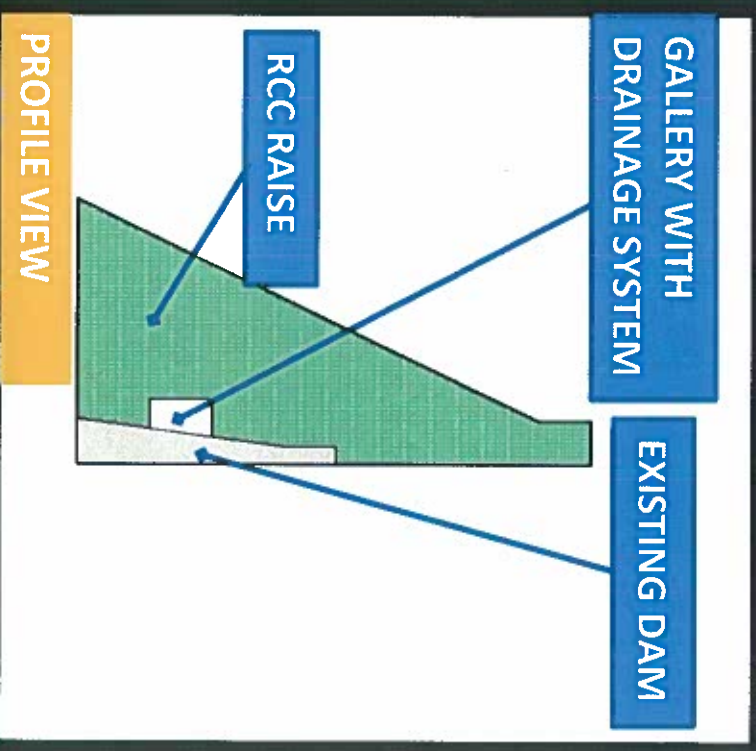
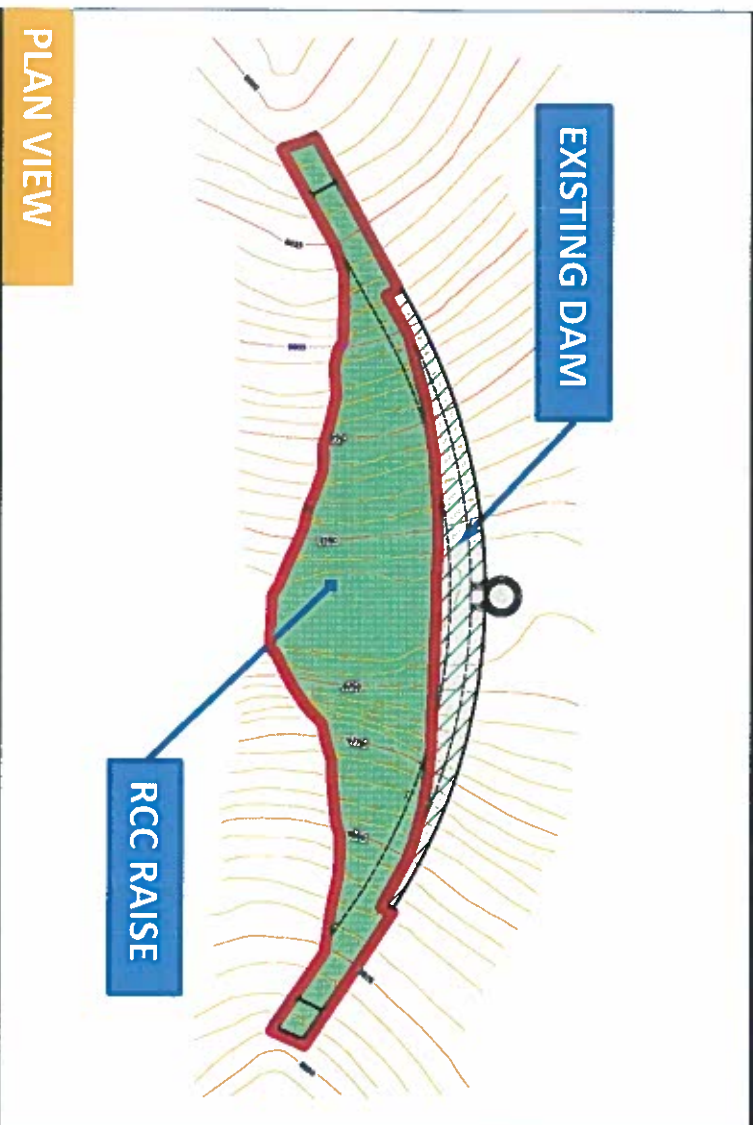
- EXISTING DAM HEIGHT = 50'
- EXISTING DAM CREST ELEV: 6786'
- EXISTING APPROX. RESERVOIR CAPACITY = 211 AC-FT

PETERSON DAM CONCRETE THIN ARCH RAISE (PLAN VIEW)



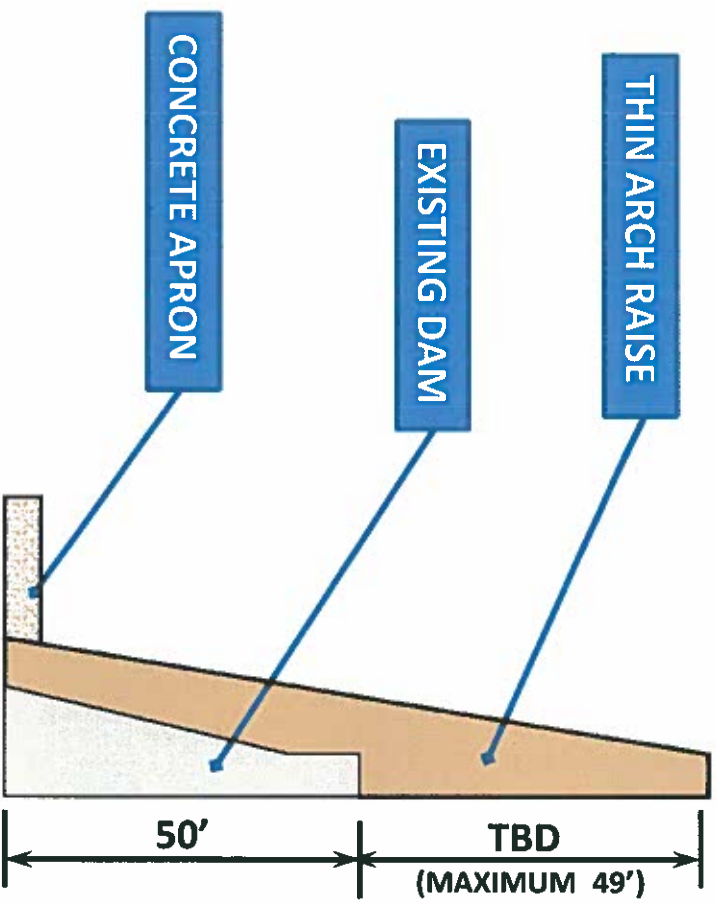
• 1204 AC-FT ADDITIONAL STORAGE

PETERSON DAM ROLLER COMPACTED CONCRETE (RCC) RAISE (PLAN AND PROFILE VIEW)



•1204 AC-FT ADDITIONAL STORAGE

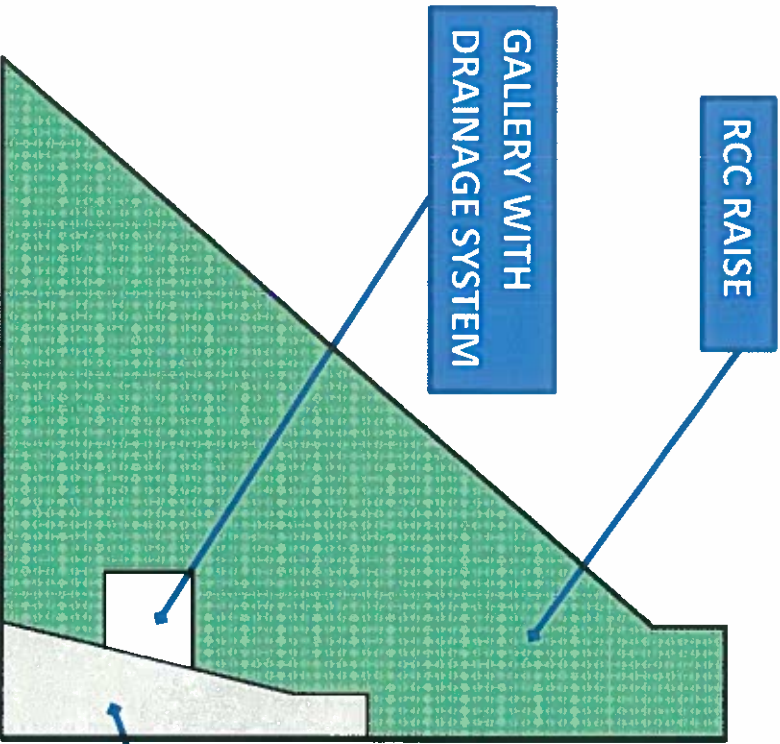
PETERSON DAM CONCRETE THIN ARCH RAISE (SECTION)



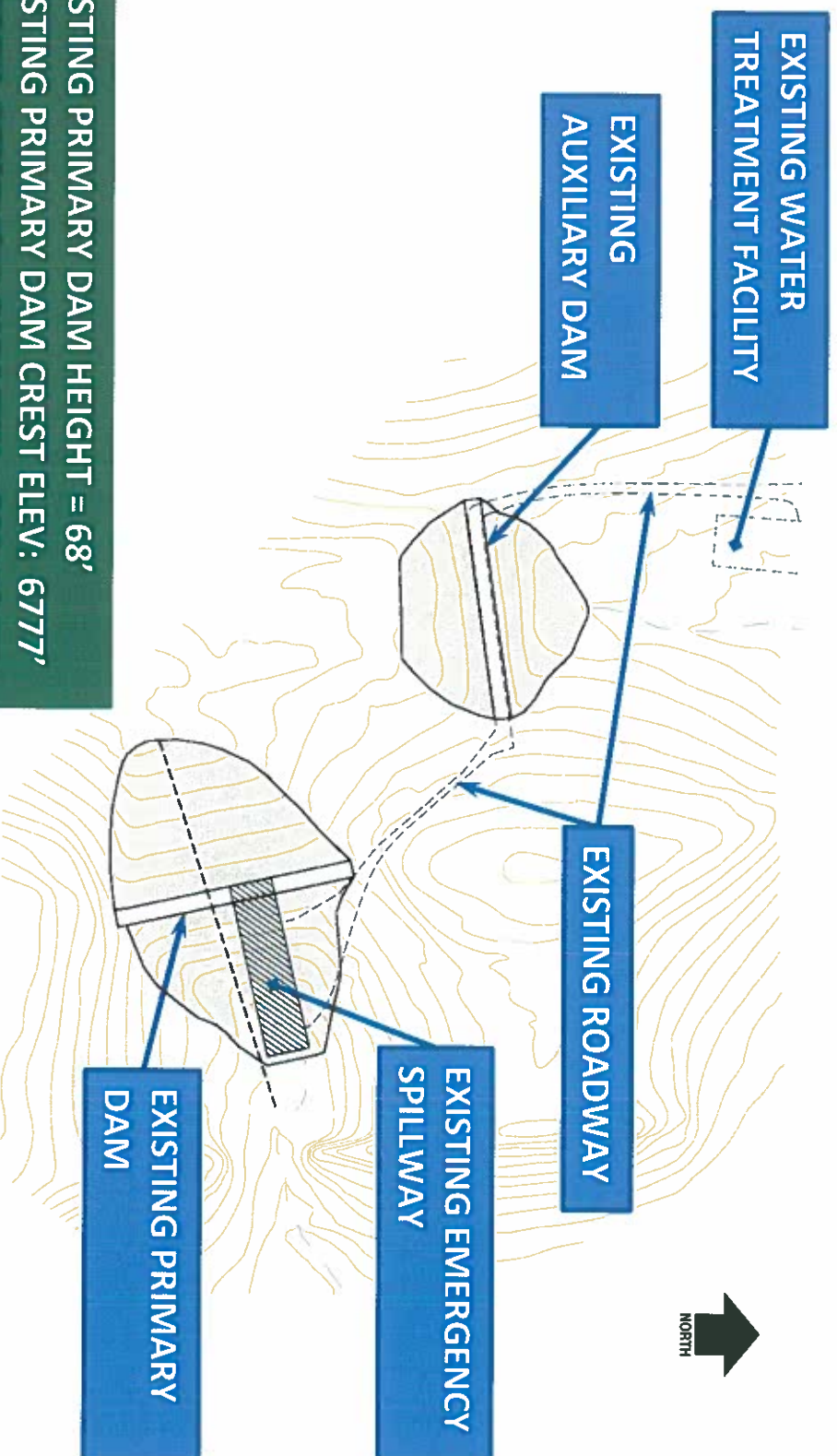
▽ 1204 AC-FT INCREASE

▽ EXISTING MAXIMUM WATER SURFACE

PETERSON DAM RCC RAISE (SECTION)

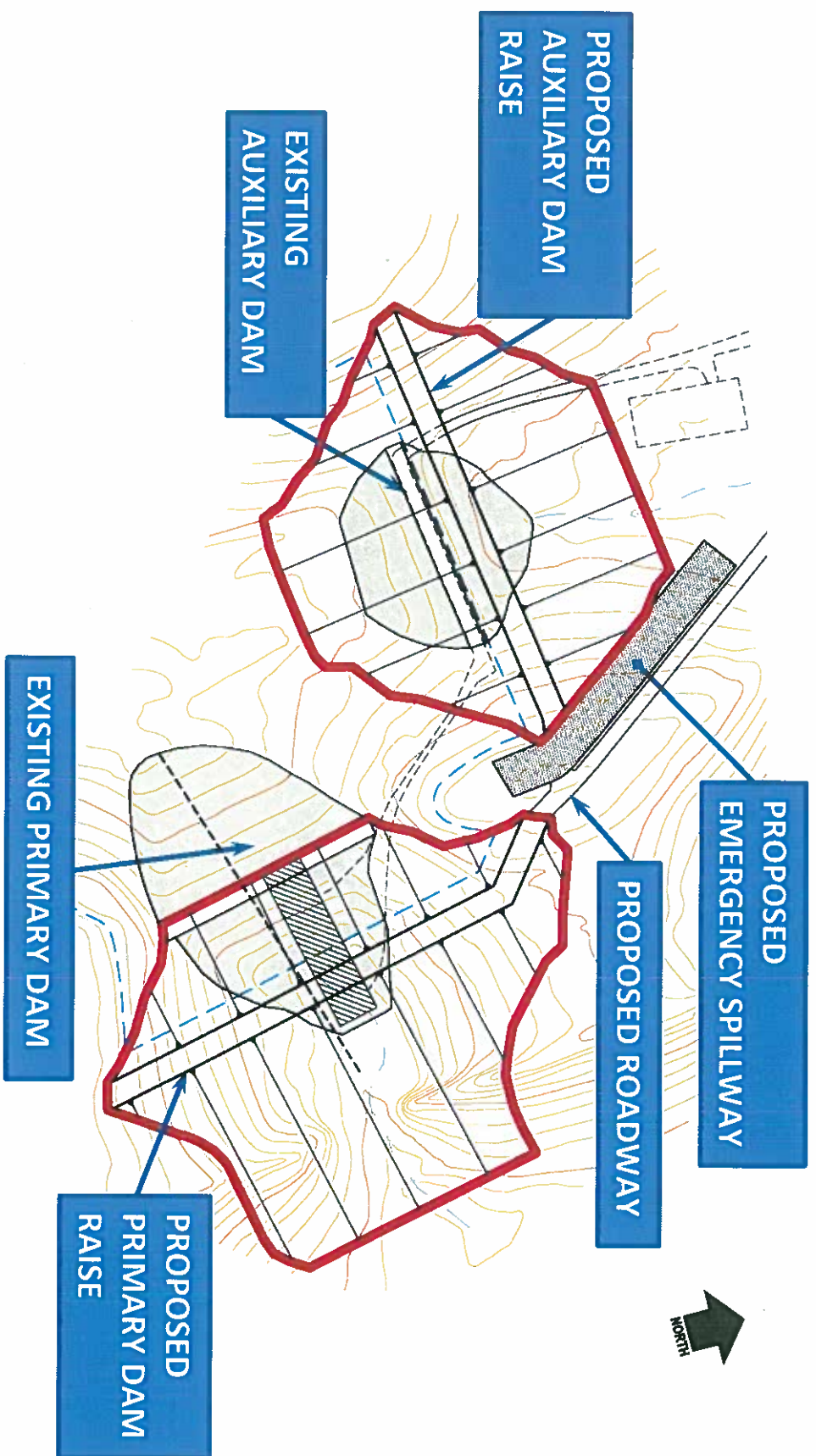


BRADNER DAM EXISTING CONDITION (PLAN VIEW)



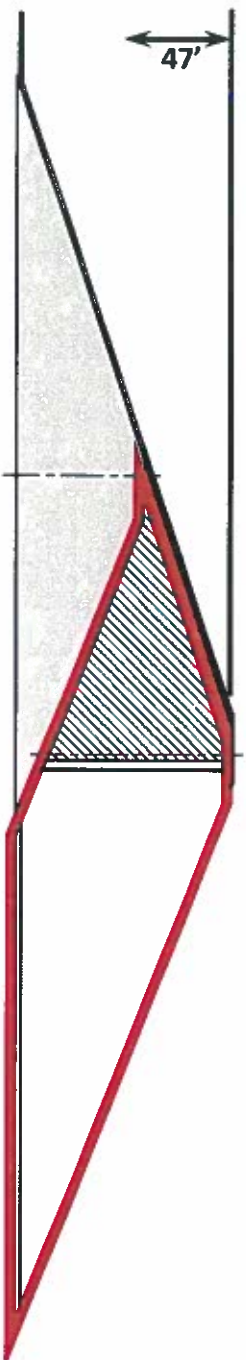
- EXISTING PRIMARY DAM HEIGHT = 68'
- EXISTING PRIMARY DAM CREST ELEV: 6777'
- APPROX. RESERVOIR CAPACITY = 300 AC-FT

BRADNER DAM 904 AC-FT CAPACITY INCREASE (PLAN VIEW)

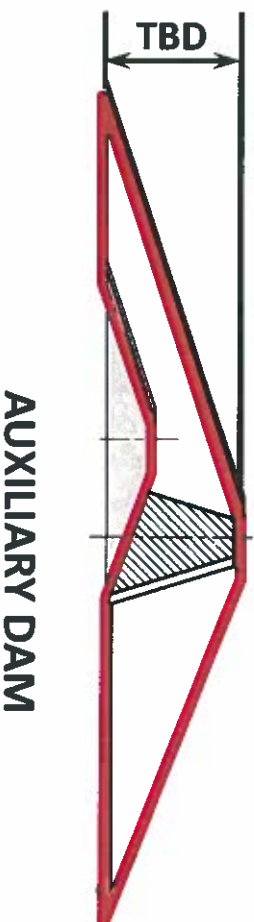


BRADNER DAM 904 AC-FT CAPACITY INCREASE (SECTION)

PRIMARY DAM



- LEAVE AT CURRENT ELEVATION (300 AC-FT CAPACITY)
- 904 AC-FT INCREASE



AUXILIARY DAM

NOT TO SCALE

ACTION ITEMS

Short Term

- ❑ Obtain Funding to start Permit Process with USACE, NMOSE, other engineers, as needed.
- ❑ Completing Protocol Surveys for Peterson Dam and upstream pipeline alignment.
- ❑ Conduct Protocol Surveys for Bradner Dam(next priority).
- ❑ Begin Preliminary Design at Peterson Dam Raise to assist in starting NMOSE Dam Modification Permit Application.

ACTION ITEMS

Long Term

- ❑ Obtain Funding for Peterson Dam Modification (highest priority), and Bradner Dam Modification (next highest priority).
- ❑ Complete 404 Permit Process for USACE, ASAP.
- ❑ Begin and Complete NMOSE Dam Modification Permit Application for Peterson Dam (highest priority) and Bradner Dam (next priority).