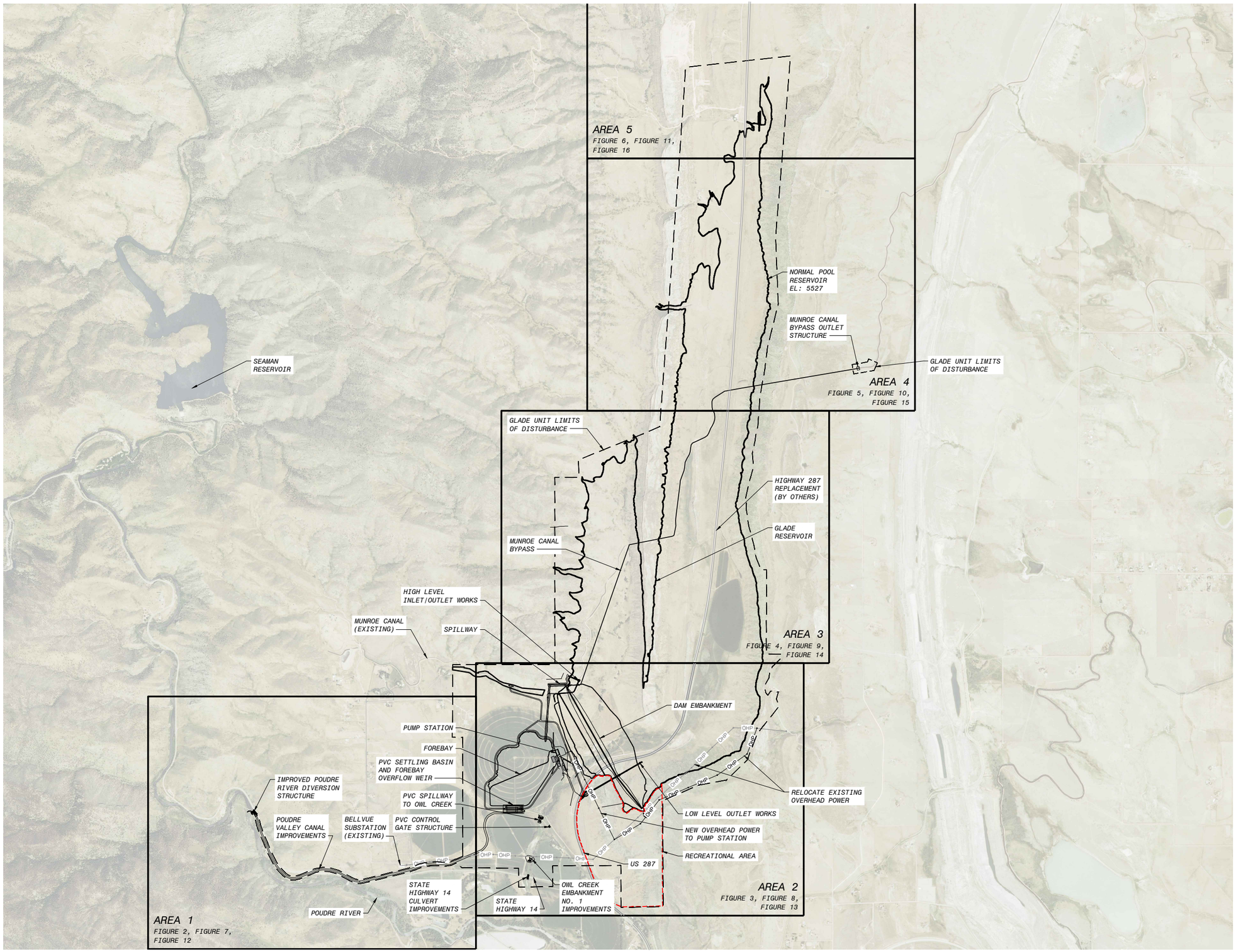


1500' 750' 0 1500' 3000'

1"=1500'

GENERAL NOTES:

1. PLEASE REFERENCE THE FINAL ENVIRONMENTAL IMPACT STATEMENT (FEIS) DOCUMENT FOR INFORMATION ON HISTORIC PLACES AND OTHER CULTURAL RESOURCES.

LEGEND:

- LIMITS OF DISTURBANCE
- NORMAL RESERVOIR POOL
- NEW WORK
- EXIST FEATURES

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
OVERALL KEY MAP

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 1
SHEET
1 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

F09000A
D9000A
PLOTTED: 2/5/2020 10:50 AM FILE: C:\pw_working\pw_americas\d0994865\FIGURE 1.dwg

RESIDENCE IN LCR 29C SUBDIVISION

POUDRE VALLEY CANAL

FEMA 100-YEAR FLOODPLAIN

POUDRE RIVER

BELLVUE SUBSTATION (EXISTING)

STATE HIGHWAY 14

400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. PLEASE REFER TO THE 1041 PERMIT WETLAND MITIGATION REPORT FOR DETAILED WETLANDS INFORMATION.

LEGEND:

- RESERVOIR
- FEMA 100-YEAR FLOODPLAIN
- LAKE
- STREAM
- WETLANDS

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
EXISTING CONDITIONS (1 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

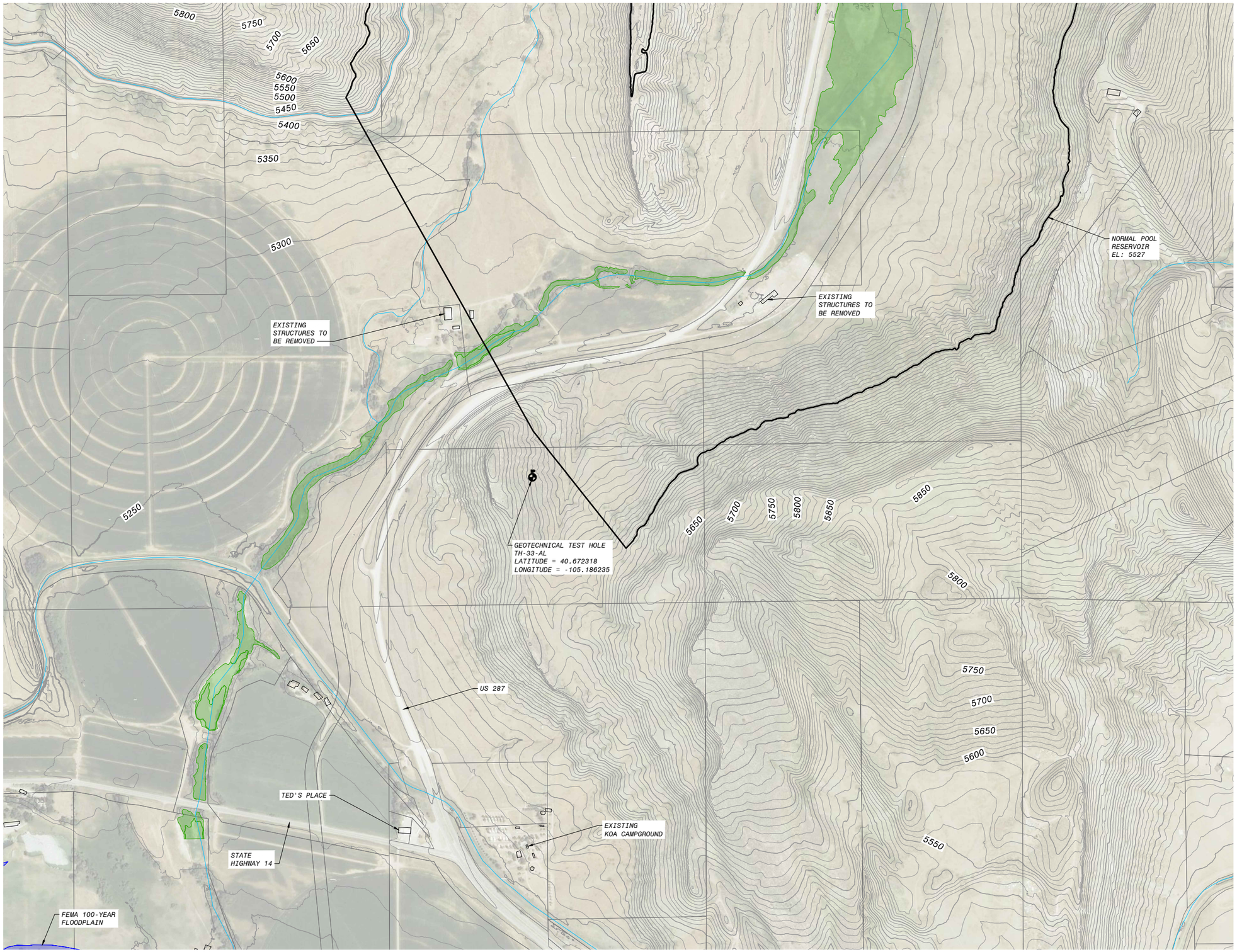
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 2
SHEET
2 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/5/2020 8:50 AM FILE: C:\pw_working\bvw_americas\d0994805\FIGURE 2.dwg



400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. PLEASE REFER TO THE 1041 PERMIT WETLAND MITIGATION REPORT FOR DETAILED WETLANDS INFORMATION.

LEGEND:

- RESERVOIR
- FEMA 100-YEAR FLOODPLAIN
- LAKE
- STREAM
- WETLANDS

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
EXISTING CONDITIONS (2 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

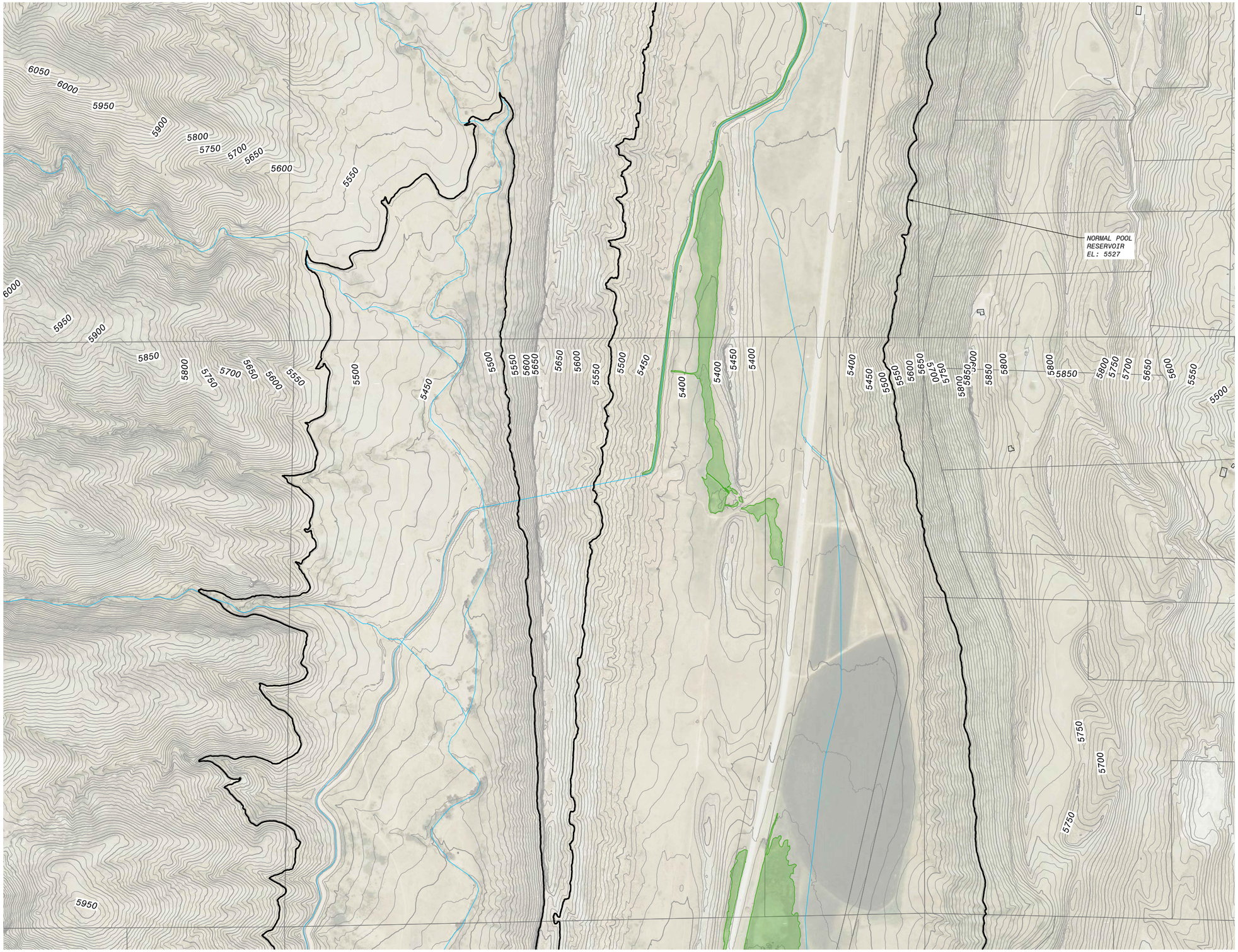
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 3
SHEET
3 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
DB000A
PLOTTED: 2/7/2020 9:16 AM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 3.dwg



400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. PLEASE REFER TO THE 1041 PERMIT WETLAND MITIGATION REPORT FOR DETAILED WETLANDS INFORMATION.

LEGEND:

- RESERVOIR
- FEMA 100-YEAR FLOODPLAIN
- LAKE
- STREAM
- WETLANDS

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
EXISTING CONDITIONS (3 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

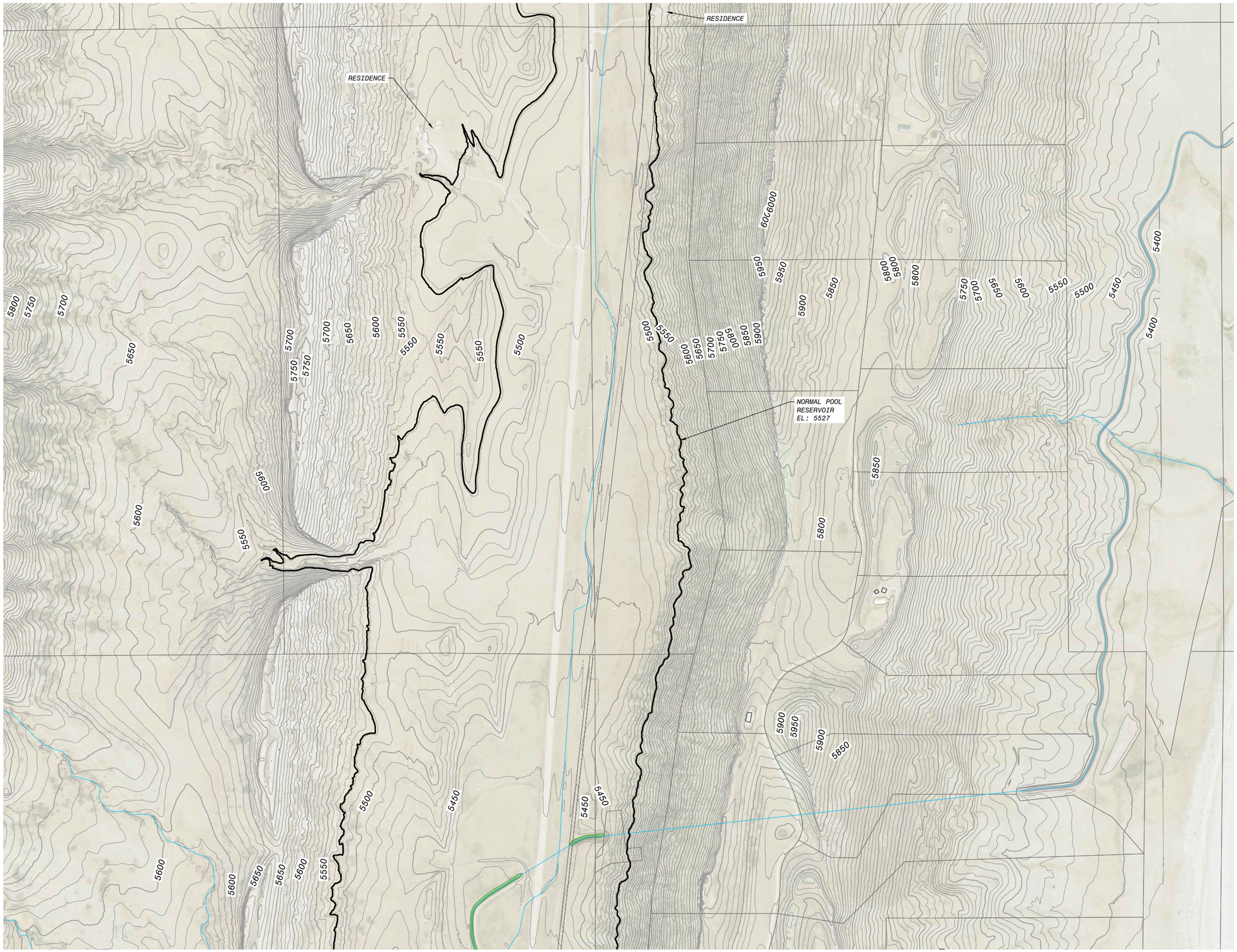
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 4
SHEET
4 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/5/2020 8:53 AM FILE: C:\pw_working\bvw_americas\d0904865\FIGURE 4.dwg



400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. PLEASE REFER TO THE 1041 PERMIT WETLAND MITIGATION REPORT FOR DETAILED WETLANDS INFORMATION.

LEGEND:

- RESERVOIR
- FEMA 100-YEAR FLOODPLAIN
- LAKE
- STREAM
- WETLANDS

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
EXISTING CONDITIONS (4 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 5
SHEET
5 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/7/2020 9:20 AM FILE: C:\pw_working\bvw_americas\d09948685\FIGURE 5.dwg



400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. PLEASE REFER TO THE 1041 PERMIT WETLAND MITIGATION REPORT FOR DETAILED WETLANDS INFORMATION.

LEGEND:

- RESERVOIR
- FEMA 100-YEAR FLOODPLAIN
- LAKE
- STREAM
- WETLANDS

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
EXISTING CONDITIONS (5 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

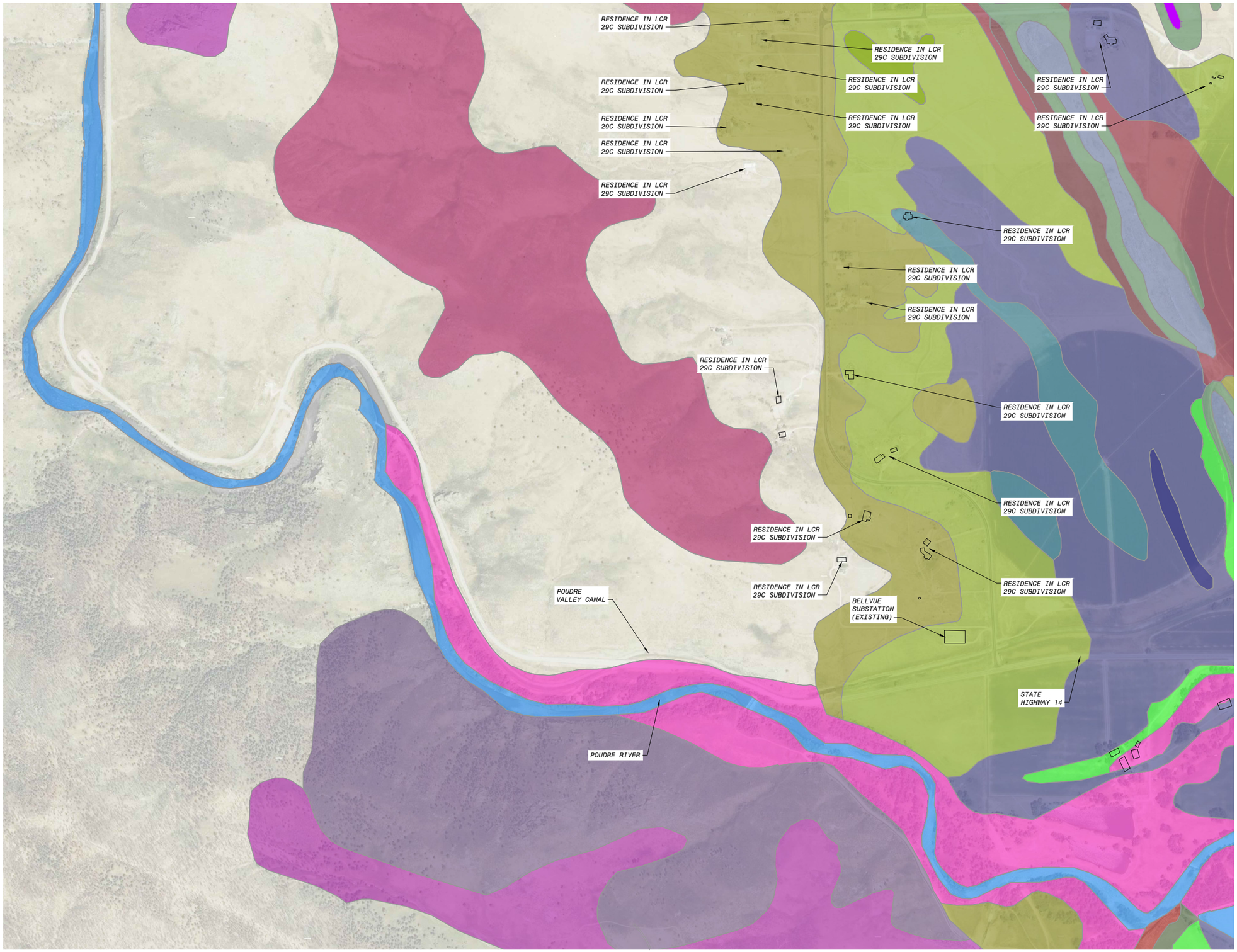
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 6
SHEET
6 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FB9000A
DB000A
PLOTTED: 2/5/2020 9:02 AM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 6.dwg



400' 200' 0 400' 800'

1"=400'

GENERAL NOTES:

1. THE SOURCE OF THIS SOIL DATA IS FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), 2017. UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.

LEGEND:

- ALTVAN LOAM
- BALLER-ROCK OUTCROP COMPLEX
- BOYLE GRAVELLY SANDY LOAM
- BREECE COARSE SANDY LOAM
- CARNERO LOAM
- CONNERTON-BARNUM COMPLEX
- HAPLOBOROLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS, HILLY
- HAPLUSTOLLS-ROCK OUTCROP COMPLEX
- HARLAN FINE SANDY LOAM, 1 TO 3 %
- HARLAN FINE SANDY LOAM, 3 TO 9 %
- KIRTLEY LOAM
- KIRTLEY-PURNER COMPLEX
- LARIM GRAVELLY SANDY LOAM
- LOVELAND CLAY LOAM
- NUNN CLAY LOAM
- OTERO SANDY LOAM 0 TO 3 %
- OTERO SANDY LOAM 5 TO 9 %
- PAOLI FINE SANDY LOAM 0 TO 1 %
- POUDRE FINE SANDY LOAM
- PURNER FINE SANDY LOAM
- PURNER-ROCK OUTCROP COMPLEX
- RATAKE-ROCK OUTCROP COMPLEX
- REDFEATHER SANDY LOAM
- ROCK OUTCROP
- SATANTA LOAM
- SATANTA LOAM 1 TO 3 %
- SATANTA LOAM 3 TO 5 %
- TABLE MOUNTAIN LOAM
- TRAG-MOEN COMPLEX
- WATER
- WETMORE-BOYLE-ROCK OUTCROP COMPLEX

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
GEOLOGICAL & SOILS MAP (1 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

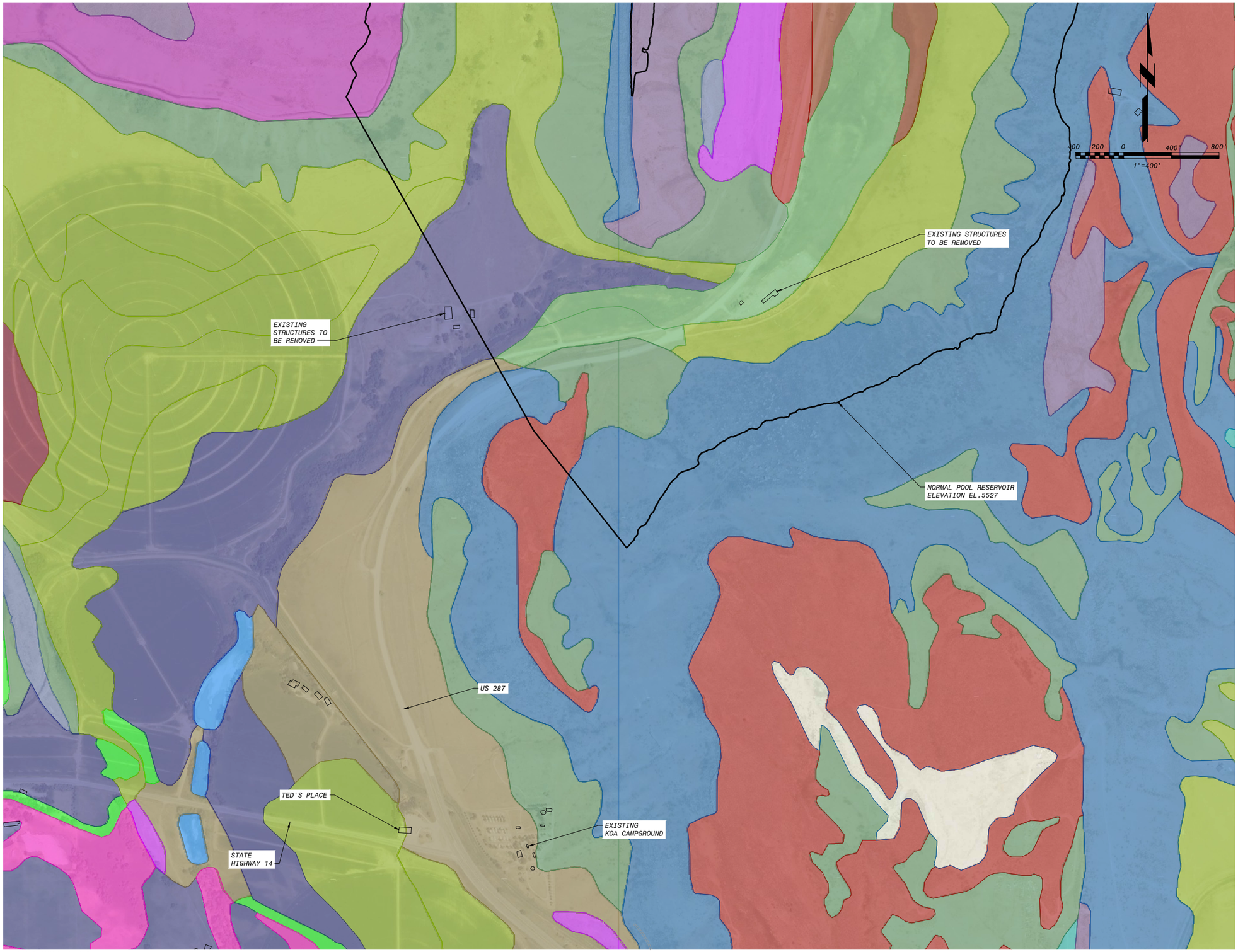
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 7
SHEET
7 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

PLOTTED: 2/5/2020 9:06 AM FILE: C:\pw_working\bvw_americas\d0894865\FIGURE 7.dwg
D9000A
FD9000A



GENERAL NOTES:

1. THE SOURCE OF THIS SOIL DATA IS FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), 2017. UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.

LEGEND:

- ALTVAN LOAM
- AQUEPTS LOAMY
- ASCALON SANDY LOAM
- BALLER-CARNERO COMPLEX
- BOYLE GRAVELLY SANDY LOAM
- BREECE COARSE SANDY LOAM
- CARNERO LOAM
- CARUSO CLAY LOAM
- CONNERTON-BARNUM COMPLEX
- CUSHMAN FINE SANDY LOAM
- ELBETH-MOEN LOAMS
- FARNUF-BOYLE-ROCK OUTCROP COMPLEX
- FORT COLLINS LOAM
- GARRETT LOAM
- GRAVEL PITS
- HAPLOBOROLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-HILLY
- HARLAN FINE SANDY LOAM
- HELDT CLAY LOAM
- KIM LOAM
- KIRTLEY LOAM
- KIRTLEY-PURNER COMPLEX
- LAPORTE-ROCK OUTCROP COMPLEX
- LARIM GRAVELLY SANDY LOAM
- LARIMER FINE SANDY LOAM
- LONGMONT CLAY
- LOVELAND CLAY LOAM
- MIDWAY CLAY LOAM
- MINNEQUA SILT LOAM
- MINNEQUA-LAPORTE COMPLEX
- NELSON FINE SANDY LOAM
- NUNN CLAY LOAM
- OTERO SANDY LOAM
- PAOLI FINE SANDY LOAM
- PLAYAS
- POUDRE FINE SANDY LOAM
- PURNER FINE SANDY LOAM
- PURNER-ROCK OUTCROP COMPLEX
- RATAKE-ROCK OUTCROP COMPLEX
- REDFEATHER SANDY LOAM
- RENOHILL CLAY LOAM
- RIVERWASH
- ROCK OUTCROP
- SATANTA LOAM

LEGEND CONTINUED:

- STONEHAM LOAM
- TABLE MOUNTAIN LOAM
- TASSEL SANDY LOAM
- THEDALUND LOAM
- TRAG-MOEN COMPLEX
- WATER
- WETMORE-BOYLE

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
GEOLOGICAL & SOILS MAP (2 OF 5)

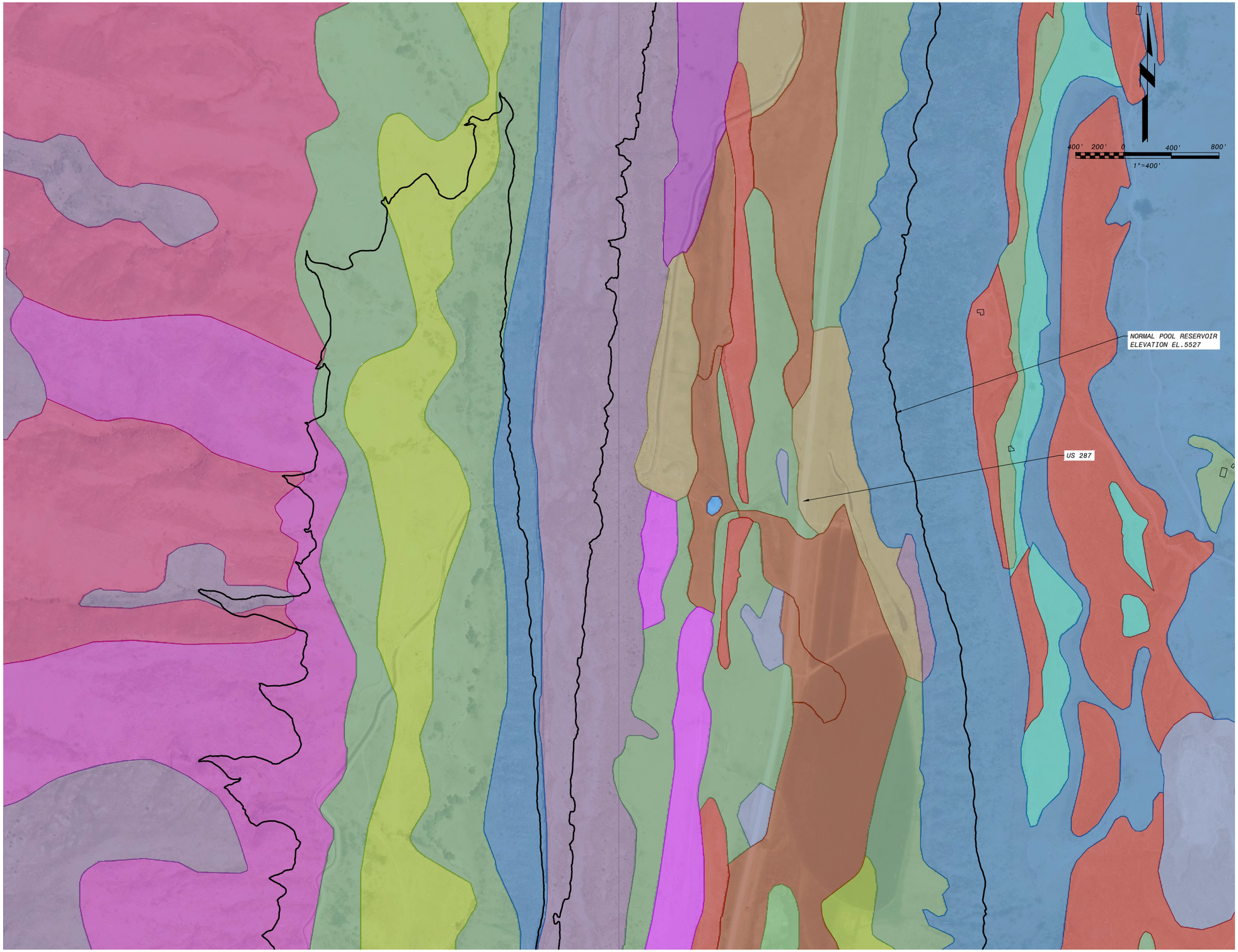
DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 8
SHEET
8 OF 27

PLOTTED: 2/7/2020 1:27 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 8.dwg
D9000A
F09000A



GENERAL NOTES:

1. THE SOURCE OF THIS SOIL DATA IS FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), 2017. UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.

LEGEND:

- ALTVAN LOAM
- AQUEPTS LOAMY
- ASCALON SANDY LOAM
- BALLER-CARNERO COMPLEX
- BOYLE GRAVELLY SANDY LOAM
- BREECE COARSE SANDY LOAM
- CARNERO LOAM
- CARUSO CLAY LOAM
- CONNERTON-BARNUM COMPLEX
- CUSHMAN FINE SANDY LOAM
- ELBETH-MOEN LOAMS
- FARNUF-BOYLE-ROCK OUTCROP COMPLEX
- FORT COLLINS LOAM
- GARRETT LOAM
- GRAVEL PITS
- HAPLOBOROLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-HILLY
- HARLAN FINE SANDY LOAM
- HELDT CLAY LOAM
- KIM LOAM
- KIRTLEY LOAM
- KIRTLEY-PURNER COMPLEX
- LAPORTE-ROCK OUTCROP COMPLEX
- LARIM GRAVELLY SANDY LOAM
- LARIMER FINE SANDY LOAM
- LONGMONT CLAY
- LOVELAND CLAY LOAM
- MIDWAY CLAY LOAM
- MINNEQUA SILT LOAM
- MINNEQUA-LAPORTE COMPLEX
- NELSON FINE SANDY LOAM
- NUNN CLAY LOAM
- OTERO SANDY LOAM
- PAOLI FINE SANDY LOAM
- PLAYAS
- POUDRE FINE SANDY LOAM
- PURNER FINE SANDY LOAM
- PURNER-ROCK OUTCROP COMPLEX
- RATAKE-ROCK OUTCROP COMPLEX
- REDFEATHER SANDY LOAM
- RENOHILL CLAY LOAM
- RIVERWASH
- ROCK OUTCROP
- SATANTA LOAM

LEGEND CONTINUED:

- STONEHAM LOAM
- TABLE MOUNTAIN LOAM
- TASSEL SANDY LOAM
- THEDALUND LOAM
- TRAG-MOEN COMPLEX
- WATER
- WETMORE-BOYLE

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
GEOLOGICAL & SOILS MAP (3 OF 5)

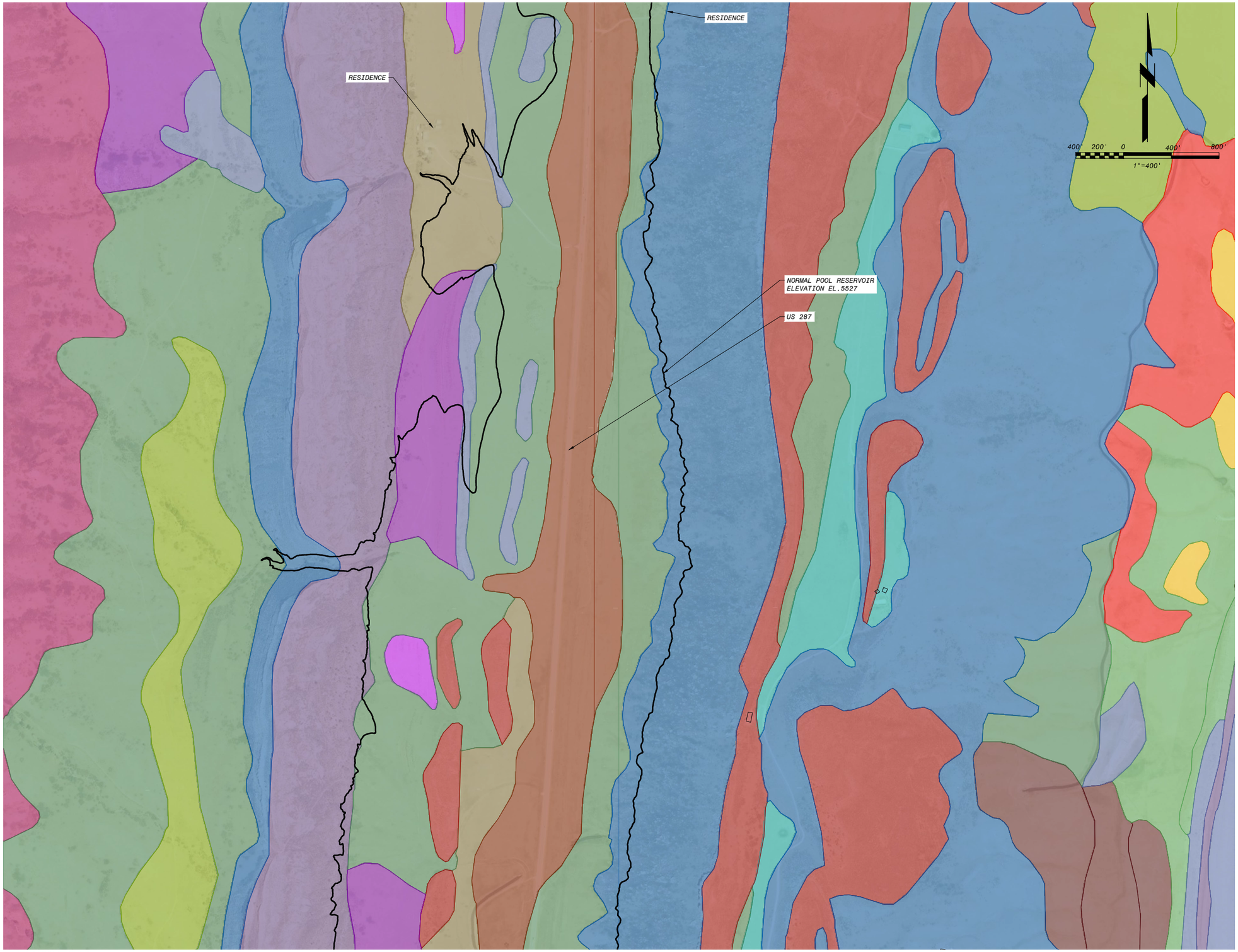
DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 9
SHEET
9 OF 27

FD900A
D900A
PLOTTED: 2/7/2020 1:19 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 9.dwg



GENERAL NOTES:

1. THE SOURCE OF THIS SOIL DATA IS FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), 2017. UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.

LEGEND:

- ALTVAN LOAM
- AQUEPTS LOAMY
- ASCALON SANDY LOAM
- BALLER-CARNERO COMPLEX
- BOYLE GRAVELLY SANDY LOAM
- BREECE COARSE SANDY LOAM
- CARNERO LOAM
- CARUSO CLAY LOAM
- CONNERTON-BARNUM COMPLEX
- CUSHMAN FINE SANDY LOAM
- ELBETH-MOEN LOAMS
- FARNUF-BOYLE-ROCK OUTCROP COMPLEX
- FORT COLLINS LOAM
- GARRETT LOAM
- GRAVEL PITS
- HAPLOBOROLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-HILLY
- HARLAN FINE SANDY LOAM
- HELDT CLAY LOAM
- KIM LOAM
- KIRTLEY LOAM
- KIRTLEY-PURNER COMPLEX
- LAPORTE-ROCK OUTCROP COMPLEX
- LARIM GRAVELLY SANDY LOAM
- LARIMER FINE SANDY LOAM
- LONGMONT CLAY
- LOVELAND CLAY LOAM
- MIDWAY CLAY LOAM
- MINNEQUA SILT LOAM
- MINNEQUA-LAPORTE COMPLEX
- NELSON FINE SANDY LOAM
- NUNN CLAY LOAM
- OTERO SANDY LOAM
- PAOLI FINE SANDY LOAM
- PLAYAS
- POUDRE FINE SANDY LOAM
- PURNER FINE SANDY LOAM
- PURNER-ROCK OUTCROP COMPLEX
- RATAKE-ROCK OUTCROP COMPLEX
- REDFEATHER SANDY LOAM
- RENOHILL CLAY LOAM
- RIVERWASH
- ROCK OUTCROP
- SATANTA LOAM

LEGEND CONTINUED:

- STONEHAM LOAM
- TABLE MOUNTAIN LOAM
- TASSEL SANDY LOAM
- THEDALUND LOAM
- TRAG-MOEN COMPLEX
- WATER
- WETMORE-BOYLE

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
GEOLOGICAL & SOILS MAP (4 OF 5)

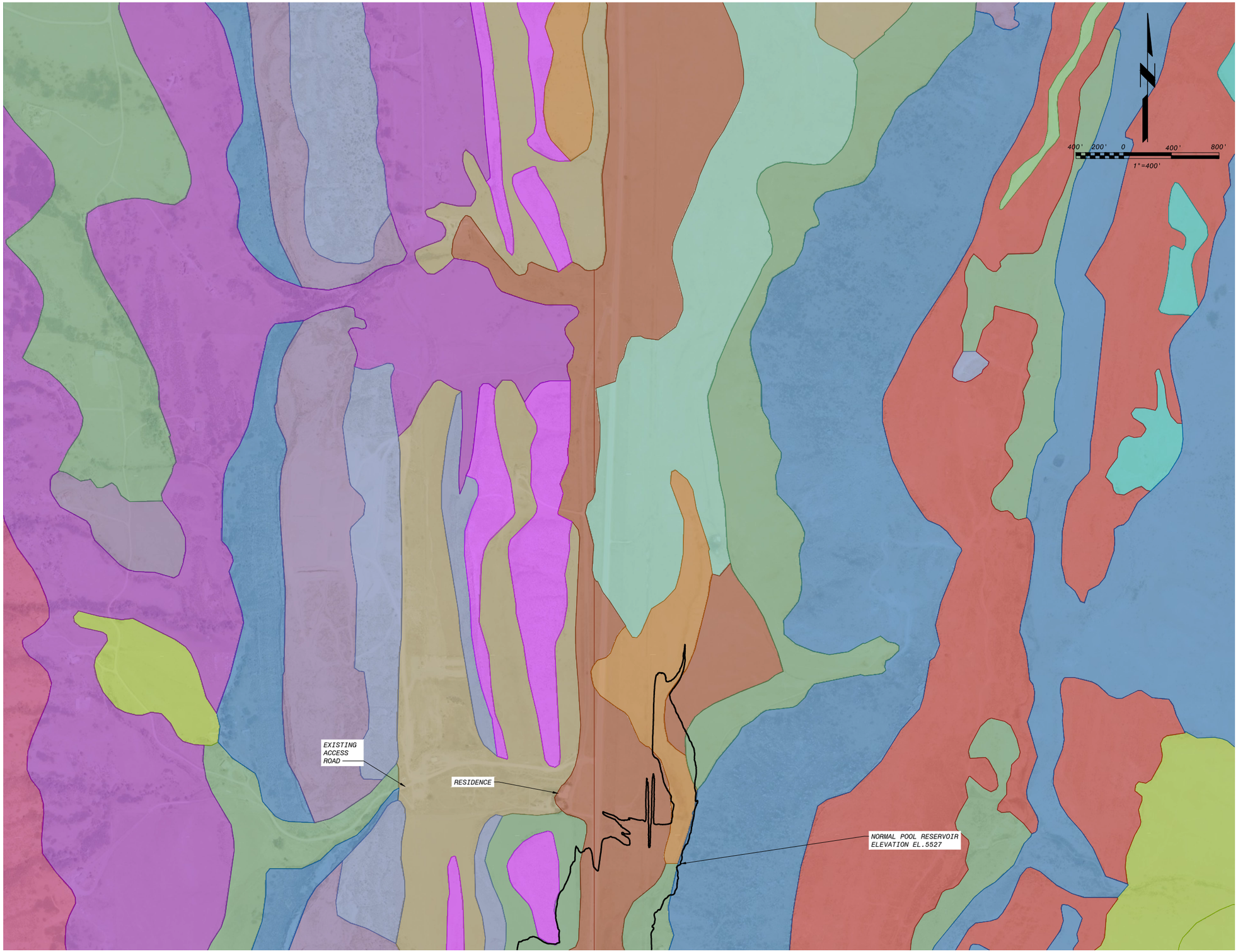
DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 10
SHEET
10 OF 27

PLOTTED: 2/7/2020 1:38 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 10.dwg
D0900A
F0900A



GENERAL NOTES:

1. THE SOURCE OF THIS SOIL DATA IS FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS), 2017. UNITED STATES DEPARTMENT OF AGRICULTURE. WEB SOIL SURVEY.

LEGEND:

- ALTVAN LOAM
- AQUEPTS LOAMY
- ASCALON SANDY LOAM
- BALLER-CARNERO COMPLEX
- BOYLE GRAVELLY SANDY LOAM
- BREECE COARSE SANDY LOAM
- CARNERO LOAM
- CARUSO CLAY LOAM
- CONNERTON-BARNUM COMPLEX
- CUSHMAN FINE SANDY LOAM
- ELBETH-MOEN LOAMS
- FARNUF-BOYLE-ROCK OUTCROP COMPLEX
- FORT COLLINS LOAM
- GARRETT LOAM
- GRAVEL PITS
- HAPLOBOROLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-ROCK OUTCROP COMPLEX
- HAPLUSTOLLS-HILLY
- HARLAN FINE SANDY LOAM
- HELDT CLAY LOAM
- KIM LOAM
- KIRTLEY LOAM
- KIRTLEY-PURNER COMPLEX
- LAPORTE-ROCK OUTCROP COMPLEX
- LARIM GRAVELLY SANDY LOAM
- LARIMER FINE SANDY LOAM
- LONGMONT CLAY
- LOVELAND CLAY LOAM
- MIDWAY CLAY LOAM
- MINNEQUA SILT LOAM
- MINNEQUA-LAPORTE COMPLEX
- NELSON FINE SANDY LOAM
- NUNN CLAY LOAM
- OTERO SANDY LOAM
- PAOLI FINE SANDY LOAM
- PLAYAS
- POUDRE FINE SANDY LOAM
- PURNER FINE SANDY LOAM
- PURNER-ROCK OUTCROP COMPLEX
- RATAKE-ROCK OUTCROP COMPLEX
- REDFEATHER SANDY LOAM
- RENOHILL CLAY LOAM
- RIVERWASH
- ROCK OUTCROP
- SATANTA LOAM

LEGEND CONTINUED:

- STONEHAM LOAM
- TABLE MOUNTAIN LOAM
- TASSEL SANDY LOAM
- THEDALUND LOAM
- TRAG-MOEN COMPLEX
- WATER
- WETMORE-BOYLE

PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
GEOLOGICAL & SOILS MAP (5 OF 5)

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 11
SHEET
11 OF 27

FD9000A
D9000A
PLOTTED: 2/7/2020 1:47 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 11.dwg



PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
PROPOSED FACILITIES

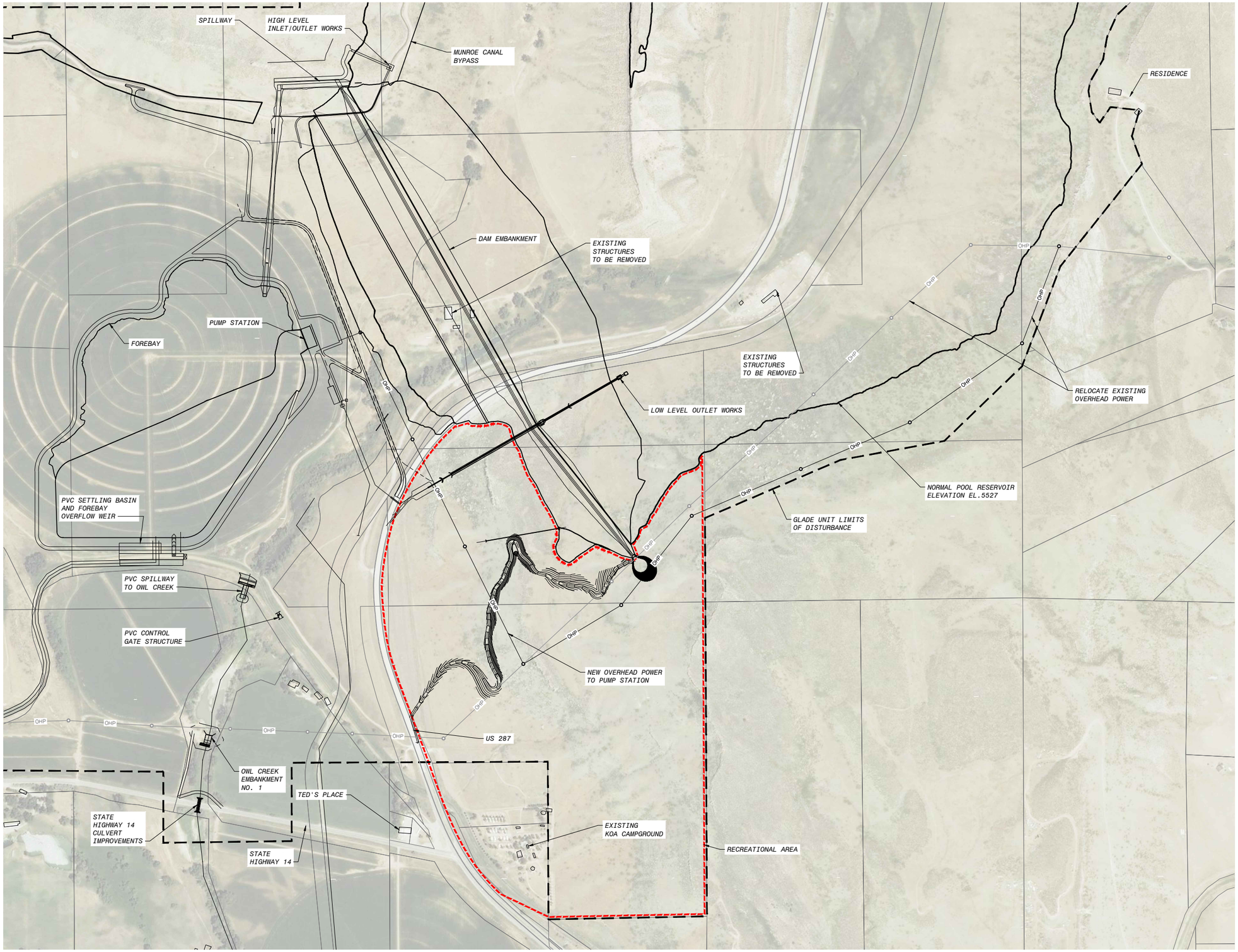
DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 12
SHEET
12 OF 27

FD9000A
D9000A
PLOTTED: 2/7/2020 2:16 PM FILE: C:\pw_working\bvw_americas\d0994805\FIGURE 17 - 12.dwg



PRELIMINARY - NOT FOR CONSTRUCTION

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
PROPOSED FACILITIES

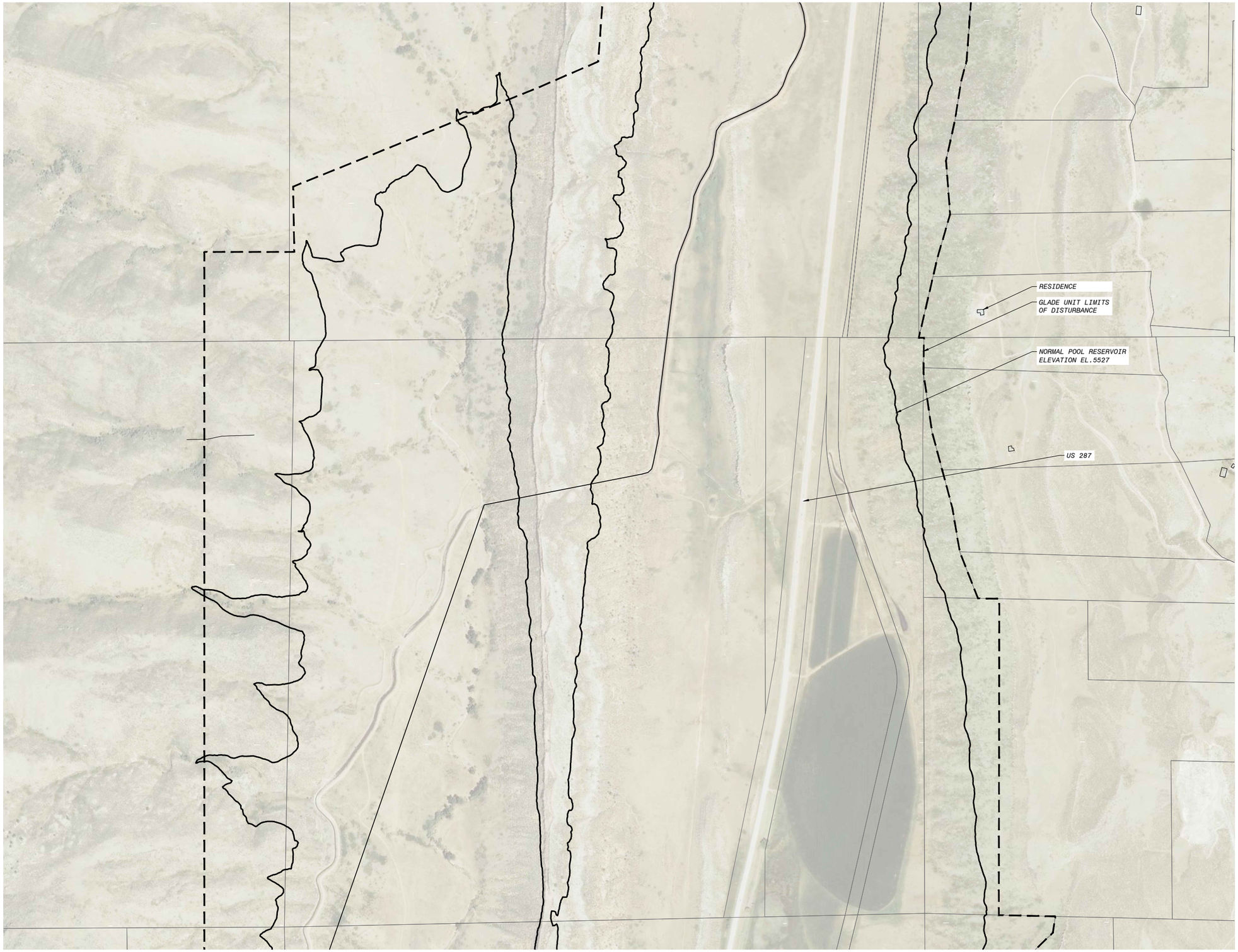
DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 13
SHEET
13 OF 27

FD9000A
D9000A
PLOTTED: 2/7/2020 2:18 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 18.dwg



400' 200' 0 400' 800'

1"=400'

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
PROPOSED FACILITIES

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

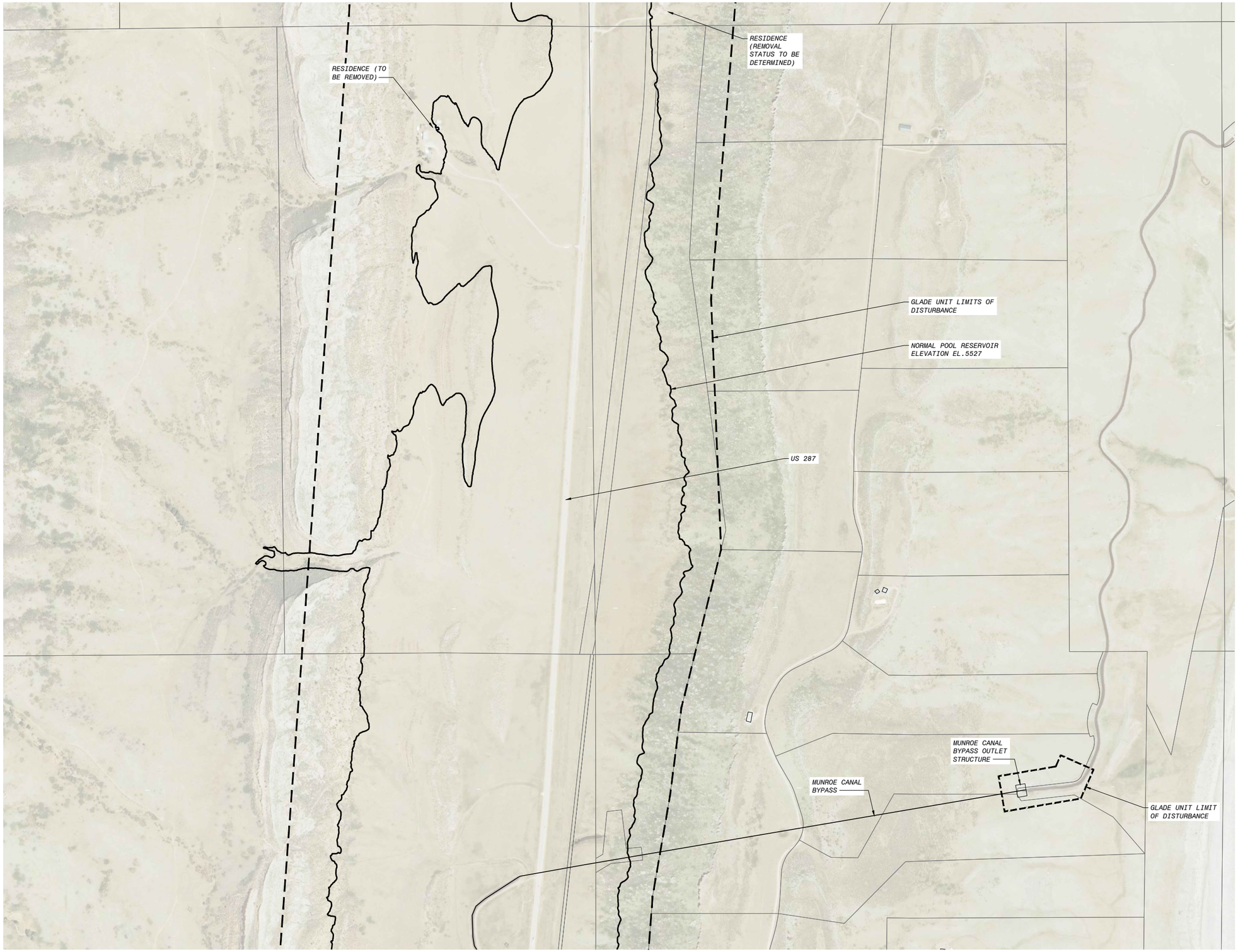
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 14
SHEET
14 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/7/2020 2:27 PM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 19.dwg



400' 200' 0 400' 800'

1"=400'

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
PROPOSED FACILITIES

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

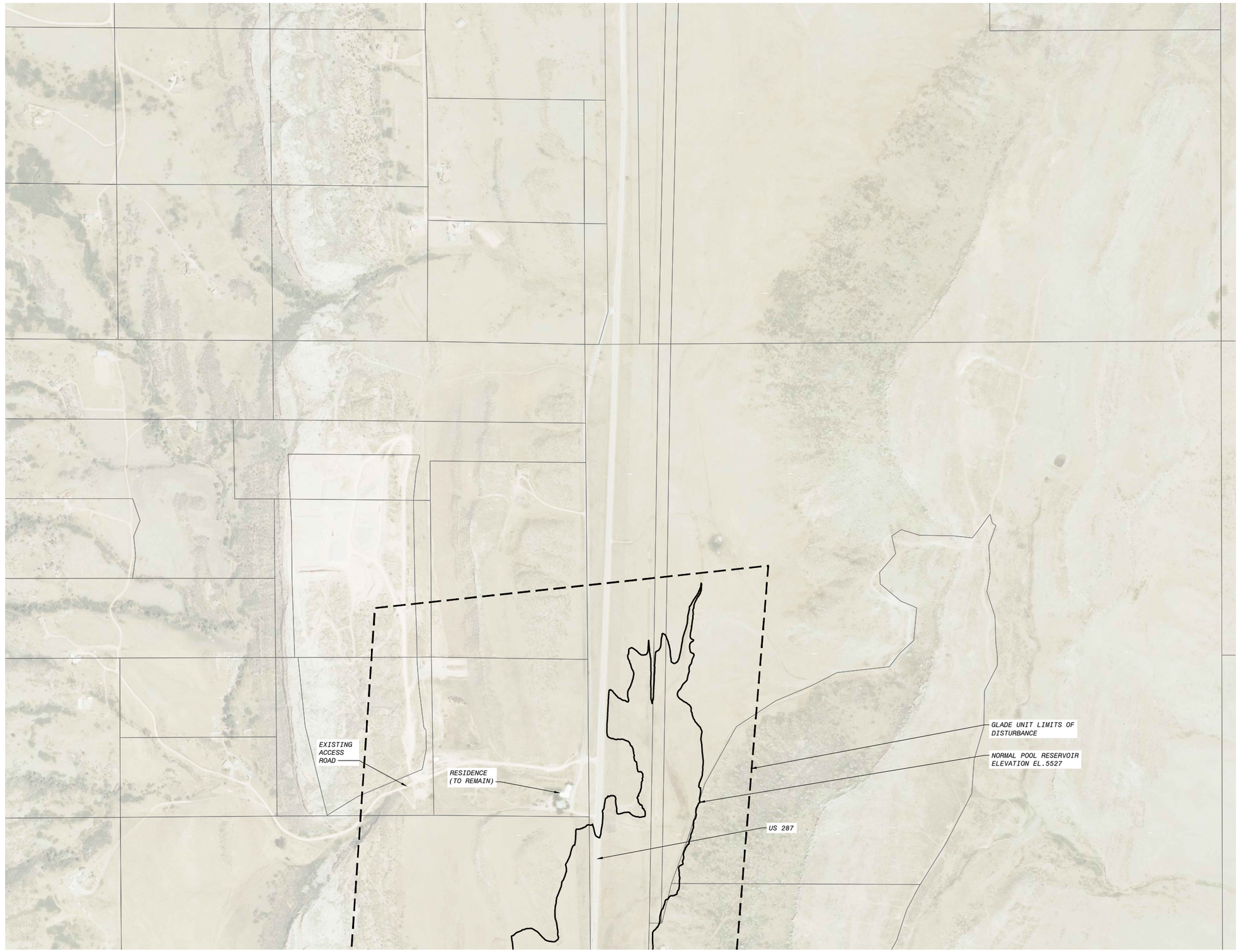
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 15
SHEET
15 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/5/2020 10:32 AM FILE: C:\pw_working\bvw_americas\d0994865\FIGURE 20.dwg



400' 200' 0 400' 800'

1"=400'

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
PROPOSED FACILITIES

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

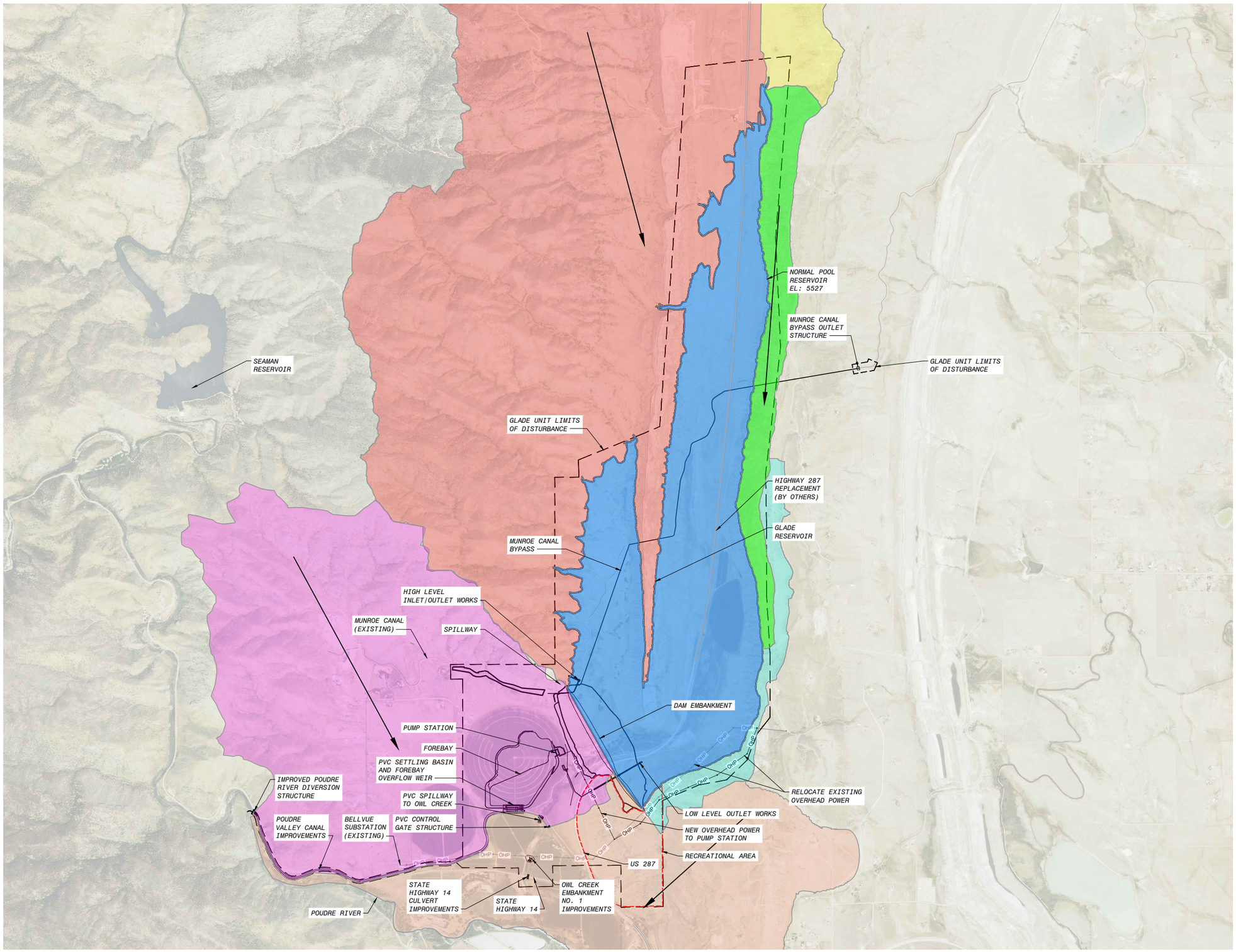
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 16
SHEET
16 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/5/2020 10:36 AM FILE: C:\pw_working\bvw_americas\d0994805\FIGURE 21.dwg



1500' 750' 0 1500' 3000'

1"=1500'

GENERAL NOTES:

1. PLEASE REFERENCE THE FINAL ENVIRONMENTAL IMPACT STATEMENT (FEIS) DOCUMENT FOR INFORMATION ON HISTORIC PLACES AND OTHER CULTURAL RESOURCES.

LEGEND:

- GENERAL DRAINAGE DIRECTION
- DRAINAGE BASIN 1
- DRAINAGE BASIN 2
- DRAINAGE BASIN 3
- DRAINAGE BASIN 4
- DRAINAGE BASIN 5
- DRAINAGE BASIN 6
- RESERVOIR

NO.	BY	CHK	APP	DATE	REVISIONS AND RECORD OF USE

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

GLADE RESERVOIR
SITE DRAINAGE PATTERNS

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: JANUARY 2020

0 1/2 1

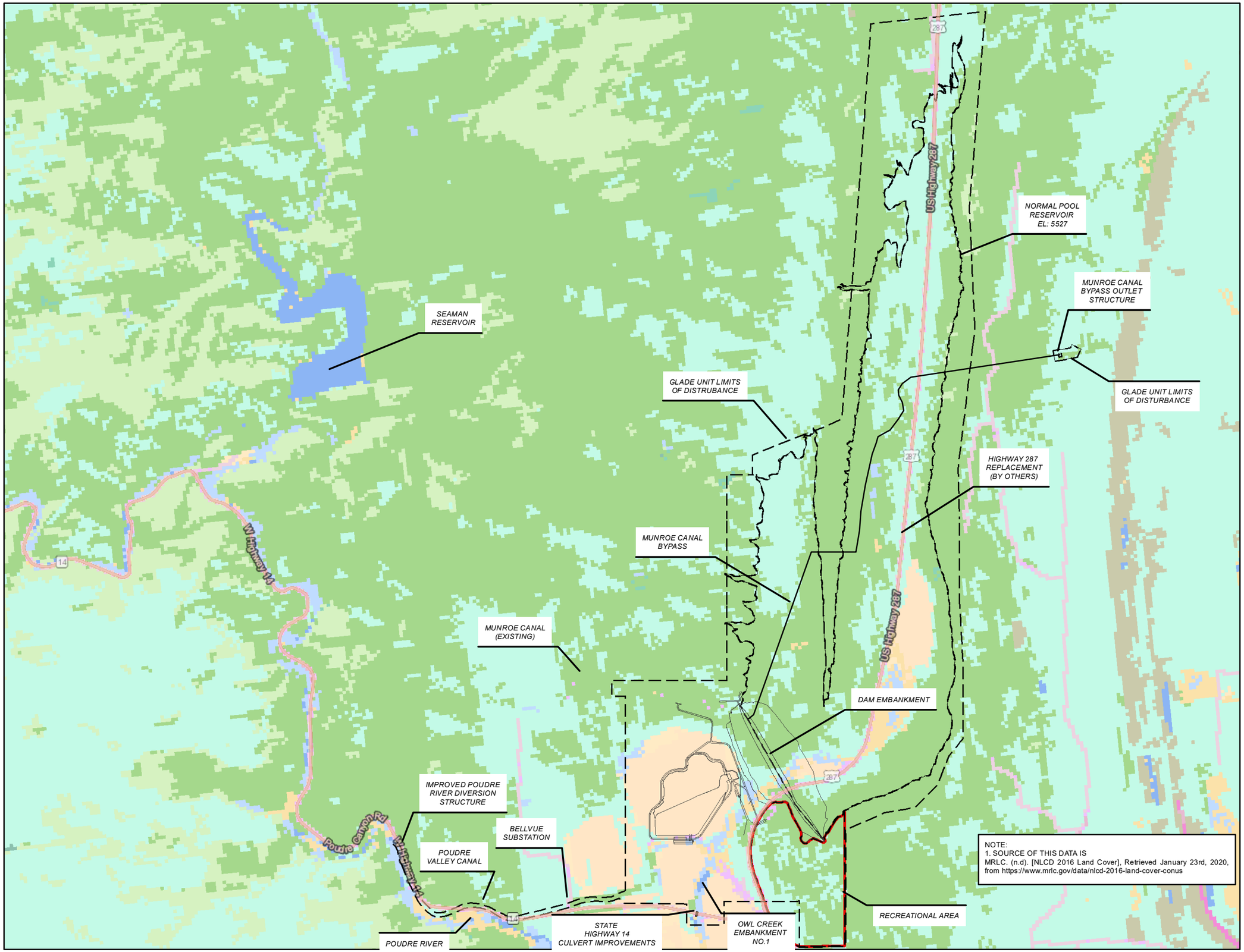
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

PROJECT NO.
188754

FIGURE 17
SHEET
17 OF 27

PRELIMINARY - NOT FOR CONSTRUCTION

FD9000A
D9000A
PLOTTED: 2/5/2020 10:41 AM FILE: C:\pw_working\pw_americas\d09948651FIGURE 17.dwg



0 2,000 4,000

Feet

N

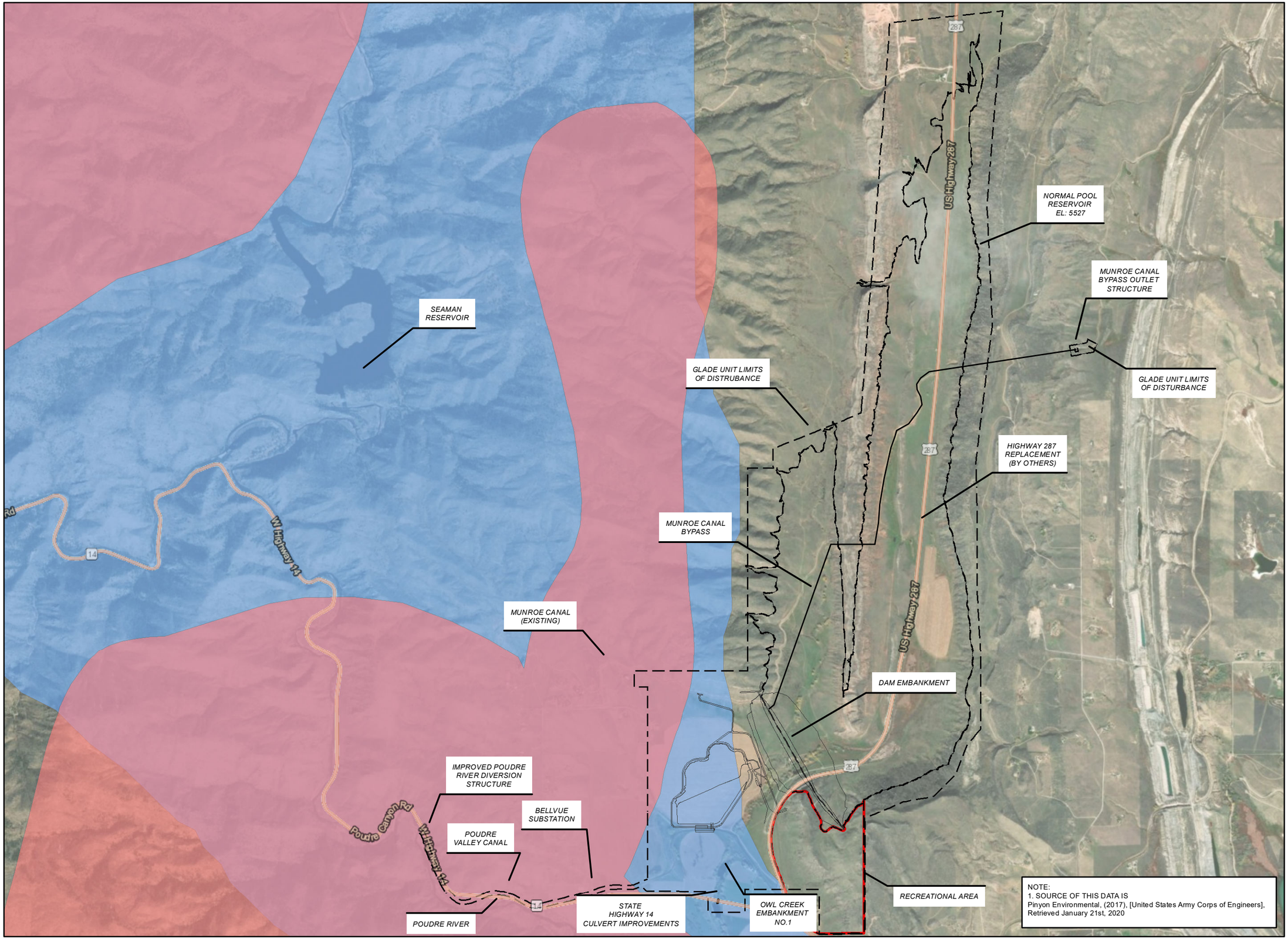
- Woody Wetlands
- Shrub/Scrub
- Open Water
- Mixed Forest
- Herbaceuous
- Hay/Pasture
- Evergreen Forest
- Developed, Open Space
- Developed, Medium Intensity
- Developed, Low Intensity
- Developed, High Intensity
- Deciduous Forest
- Cultivated Crops
- Barren Land
- Emergent Herbaceuous Wetlands

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

National Land Cover Map

FIGURE 18
SHEET
18 OF 27



0 2,000 4,000

Feet

Mule Deer Population

Mule Deer Winter Range

N

NOTE:
1. SOURCE OF THIS DATA IS
Pinyon Environmental, (2017), [United States Army Corps of Engineers], Retrieved January 21st, 2020

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Mule Deer Habitat

FIGURE 19
SHEET
19 OF 27

0 2,000 4,000

Feet

White Tail Deer Winter Range

N

SEAMAN RESERVOIR

GLADE UNIT LIMITS OF DISTRUBANCE

NORMAL POOL RESERVOIR EL: 5527

MUNROE CANAL BYPASS OUTLET STRUCTURE

GLADE UNIT LIMITS OF DISTURBANCE

HIGHWAY 287 REPLACEMENT (BY OTHERS)

MUNROE CANAL BYPASS

MUNROE CANAL (EXISTING)

DAM EMBANKMENT

IMPROVED POUDRE RIVER DIVERSION STRUCTURE

BELLVUE SUBSTATION

POUDRE VALLEY CANAL

POUDRE RIVER

STATE HIGHWAY 14 CULVERT IMPROVEMENTS

OWL CREEK EMBANKMENT NO.1

RECREATIONAL AREA

US Highway 287

W Highway 14

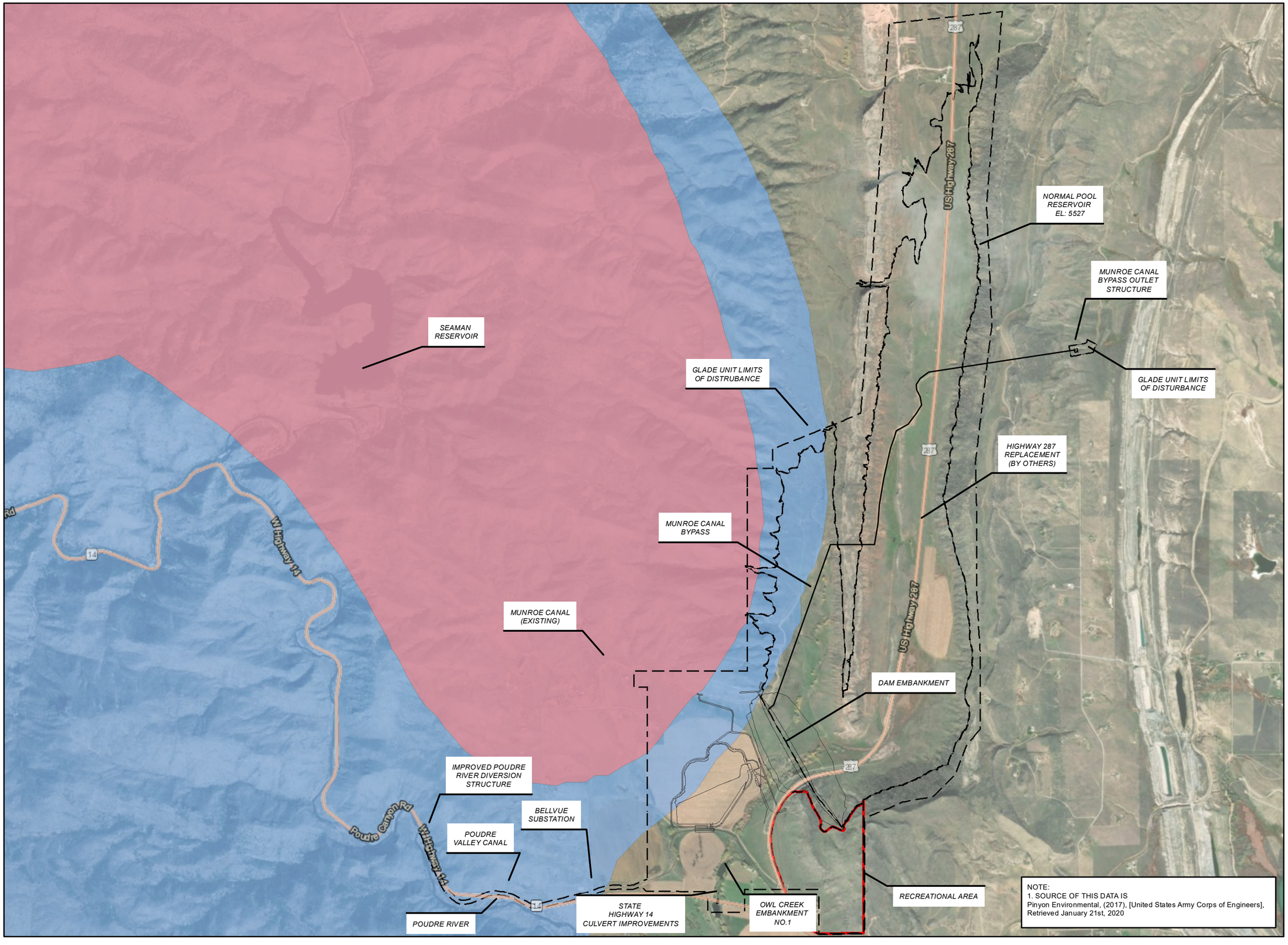
Poudre Canyon Rd

NOTE:
1. SOURCE OF THIS DATA IS
Pinyon Environmental, (2017), [United States Army Corps of Engineers], Retrieved January 21st, 2020

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

White Tail Deer Habitat

FIGURE 20
SHEET
20 OF 27



NOTE:
1. SOURCE OF THIS DATA IS
Pinyon Environmental, (2017), [United States Army Corps of Engineers], Retrieved January 21st, 2020

0 2,000 4,000

Feet

Elk Population

Elk Winter Range

N

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Elk Habitat

FIGURE 21
SHEET
21 OF 27

0 2,000 4,000

Feet

N

Occupied Habitat

SEAMAN RESERVOIR

GLADE UNIT LIMITS OF DISTRUBANCE

NORMAL POOL RESERVOIR EL: 5527

MUNROE CANAL BYPASS OUTLET STRUCTURE

GLADE UNIT LIMITS OF DISTURBANCE

HIGHWAY 287 REPLACEMENT (BY OTHERS)

MUNROE CANAL BYPASS

MUNROE CANAL (EXISTING)

DAM EMBANKMENT

IMPROVED POUDRE RIVER DIVERSION STRUCTURE

BELLVUE SUBSTATION

POUDRE VALLEY CANAL

POUDRE RIVER

STATE HIGHWAY 14 CULVERT IMPROVEMENTS

OWL CREEK EMBANKMENT NO.1

RECREATIONAL AREA

US Highway 287

W Highway 14

Poudre Canyon Rd

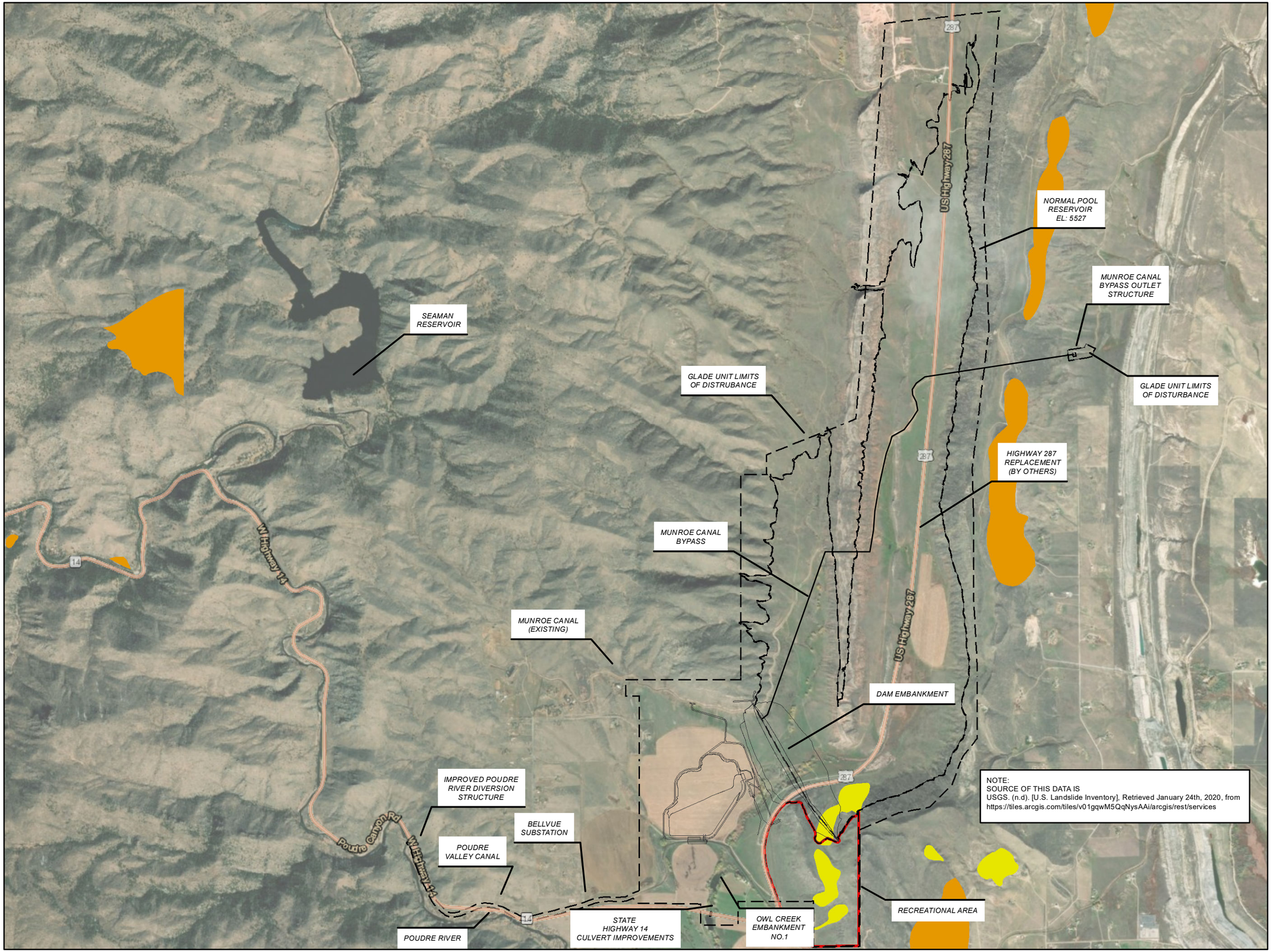
NOTE:
1. SOURCE OF THIS DATA IS
Pinyon Environmental Inc. (n.d). Retrieved Feb 5th, 2020

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Preble's Meadow Jumping Mouse Habitat

FIGURE 22
SHEET
22 OF 27



0 2,000 4,000

Feet

Landslides Digitized at 1:24k Scale

Landslides Digitized at 1:48k to 1:100k

Landslides & Unstable Slope Digitized From All Available Hazards. Most completed at 1:24k Scale (CO, House Bill 1041)

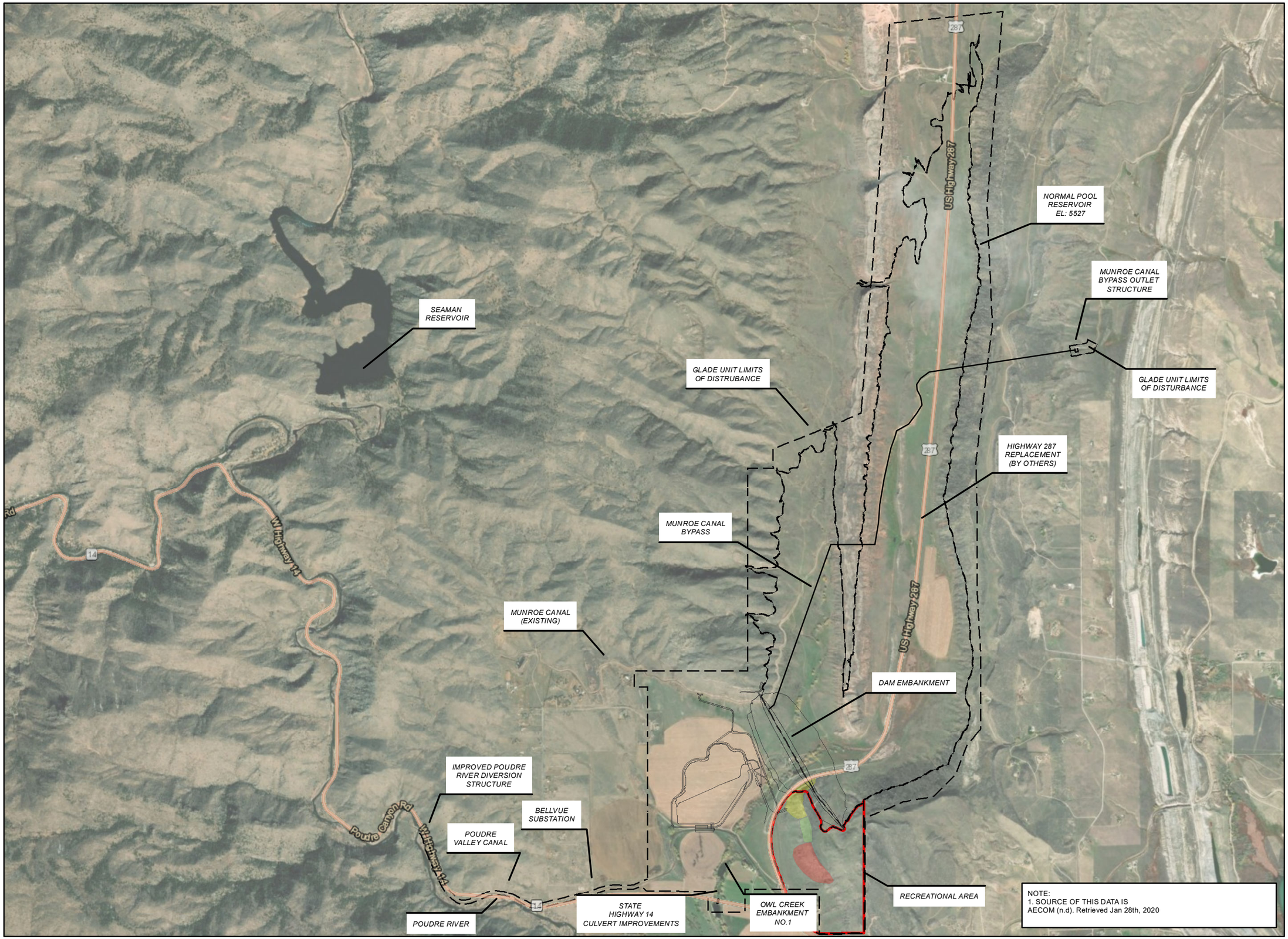
N

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Landslide Hazard Map

FIGURE 23
SHEET
23 OF 27



0 2,000 4,000

Feet

N

- Low to Moderate Rockfall Hazard
- High Rockfall Hazard 1
- High Rockfall Hazard 2

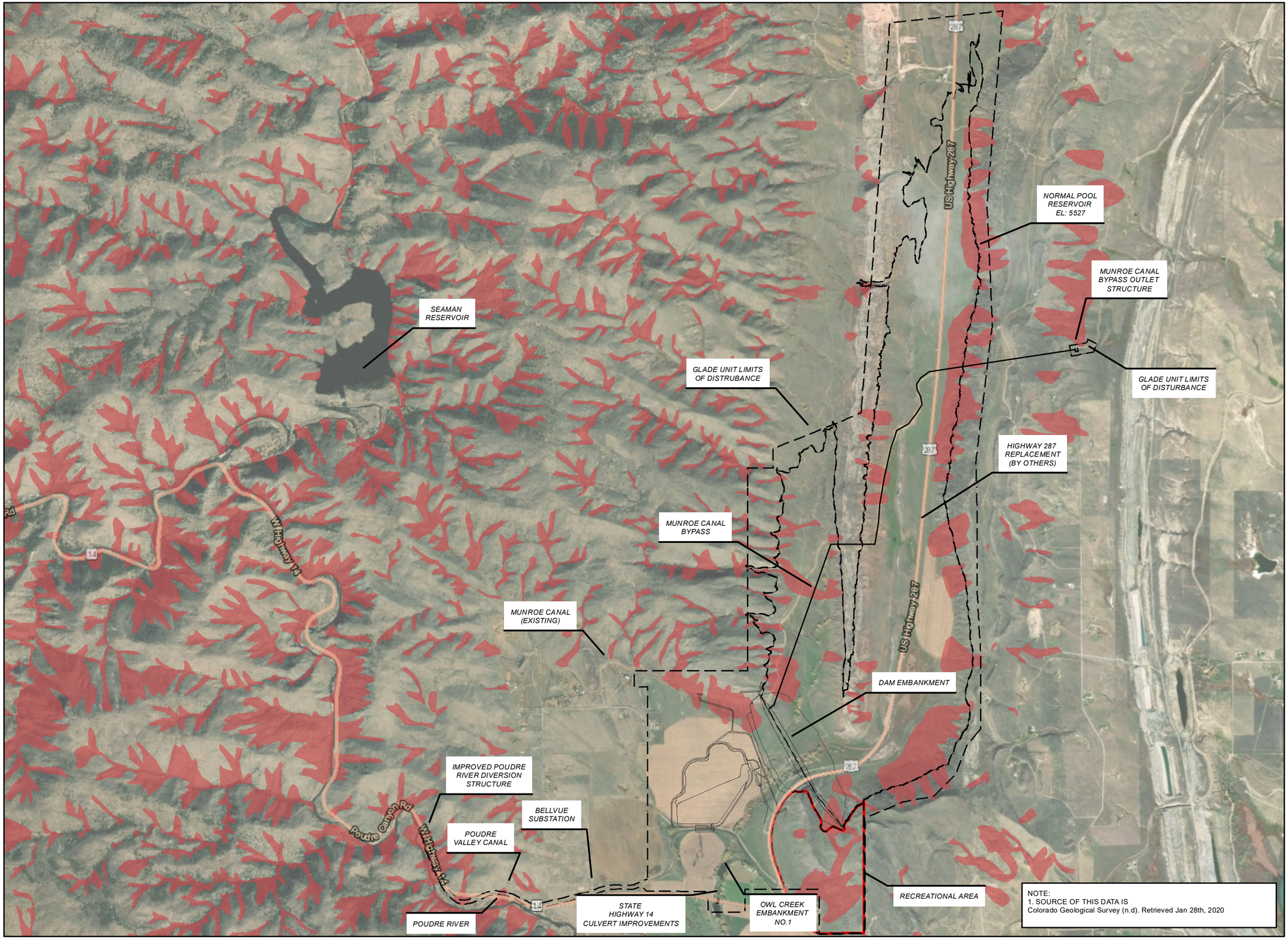
NOTE:
1. SOURCE OF THIS DATA IS AECOM (n.d.). Retrieved Jan 28th, 2020

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Rockfall Hazard

FIGURE 24
SHEET
24 OF 27



0 2,000 4,000

Feet

Conditions favorable for the generation of debris flows/mudflows, especially during extreme precipitation events.

N

NOTE:
1. SOURCE OF THIS DATA IS
Colorado Geological Survey (n.d.). Retrieved Jan 28th, 2020

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Debris Flow Hazard

FIGURE 25
SHEET
25 OF 27

0 2,000 4,000

Feet

N

EG-14 Eolian (wind-blown) deposits

EG-14 Cretaceous and Tertiary Formations

EG-14 Evaporite Formations

SEAMAN RESERVOIR

GLADE UNIT LIMITS OF DISTRUBANCE

NORMAL POOL RESERVOIR EL: 5527

MUNROE CANAL BYPASS OUTLET STRUCTURE

GLADE UNIT LIMITS OF DISTURBANCE

HIGHWAY 287 REPLACEMENT (BY OTHERS)

MUNROE CANAL BYPASS

MUNROE CANAL (EXISTING)

DAM EMBANKMENT

IMPROVED POUDRE RIVER DIVERSION STRUCTURE

BELLVUE SUBSTATION

POUDRE VALLEY CANAL

STATE HIGHWAY 14 CULVERT IMPROVEMENTS

POUDRE RIVER

OWL CREEK EMBANKMENT NO.1

RECREATIONAL AREA

US Highway 287

W Highway 14

Poudre Canyon Rd

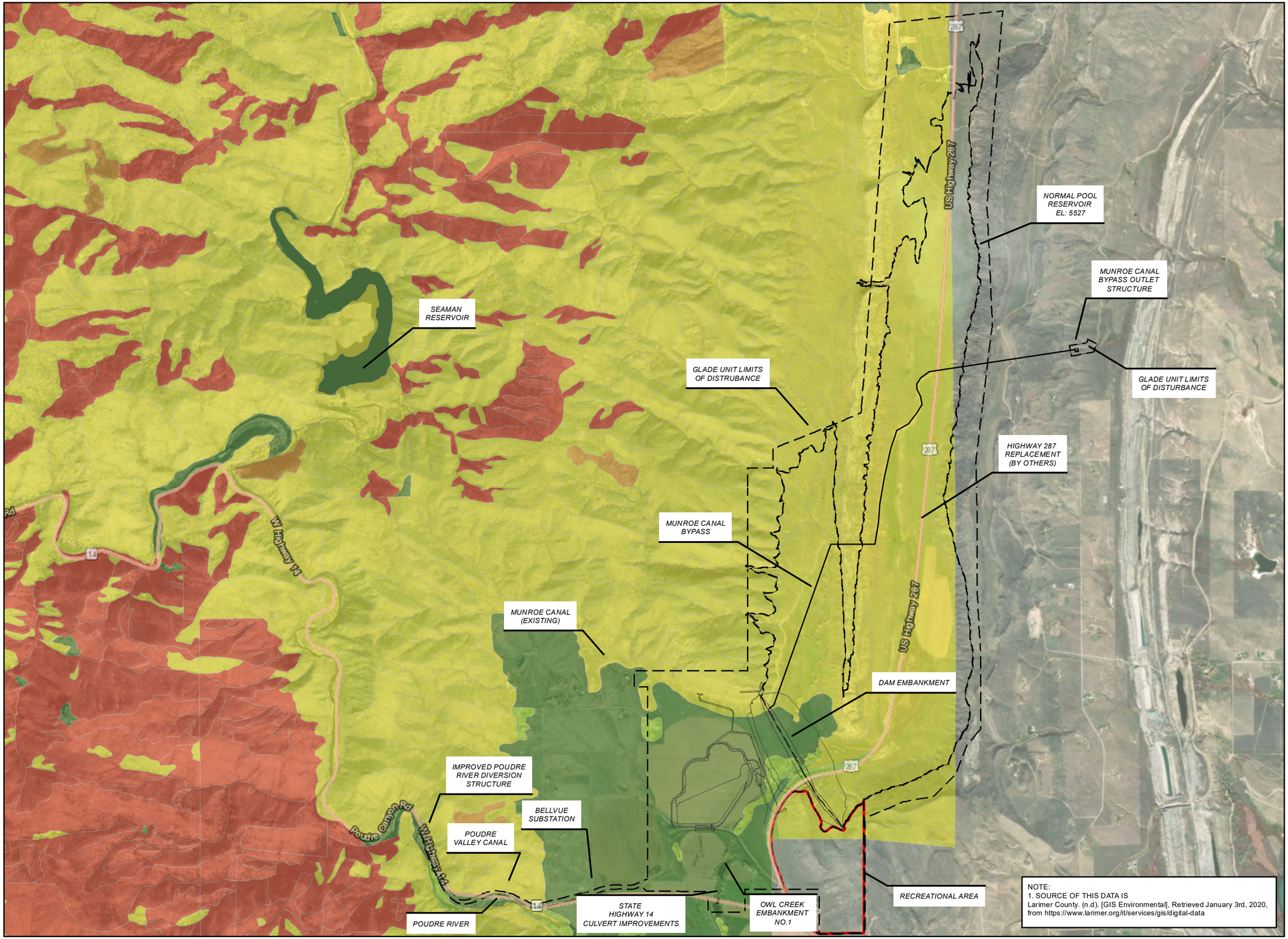
NOTE:
1. SOURCE OF THIS DATA IS
CGS Mines CO (n.d). [Collapsible Soils], Retrieved January 24th, 2020, from https://cgsarcimage.mines.edu/arcgis/services

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Collapsable Soils Map

FIGURE 26
SHEET
26 OF 27



0 2,000 4,000

Feet

Wild Fire

Hazard Level

- VERY HIGH
- HIGH
- MODERATE
- LOW
- LOWEST

N

NOTE:
1. SOURCE OF THIS DATA IS
Larimer County. (n.d.). [GIS Environmental], Retrieved January 3rd, 2020, from https://www.larimer.org/it/services/gis/digital-data

AECOM

NORTHERN INTEGRATED SUPPLY PROJECT
GLADE RESERVOIR AND APPURTENANT USES
NISP WATER ACTIVITY ENTERPRISE

Wildfire Hazard Map

FIGURE 27
SHEET
27 OF 27