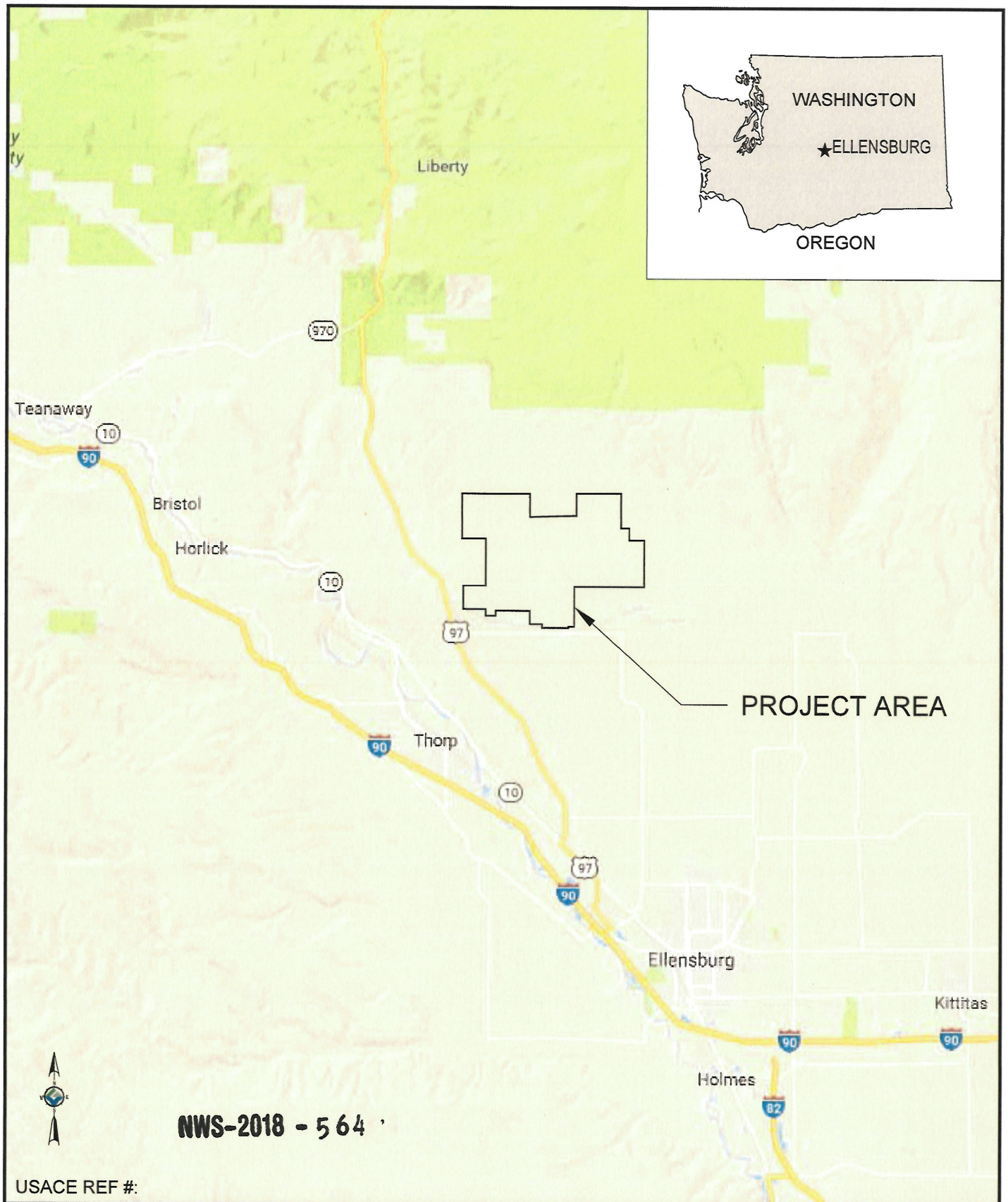


USACE REF #:

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

VICINITY MAP

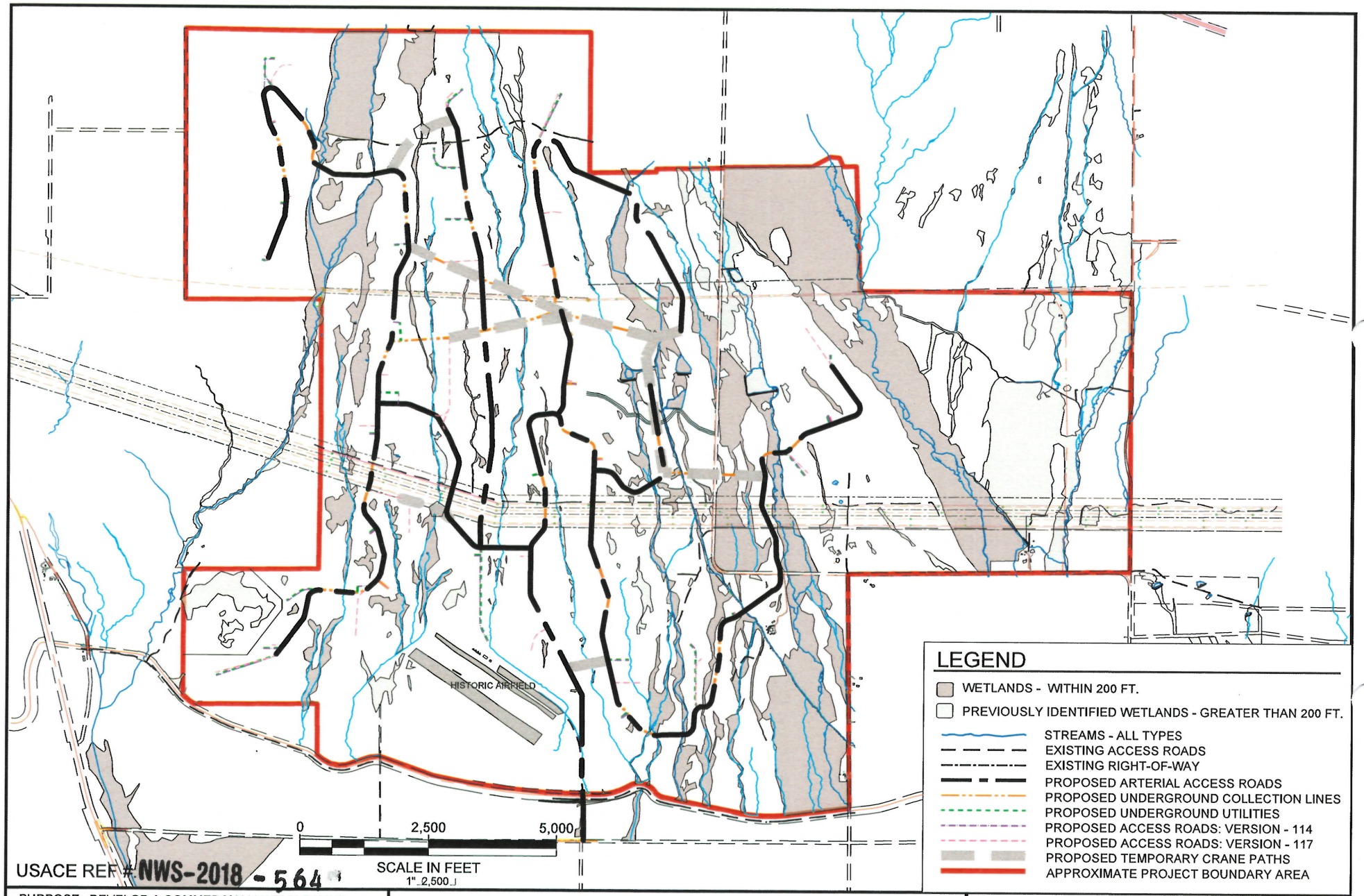
S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

Grette Associates
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

SHEET NO. 1 OF 7 DATE: 5/15/18



USACE REF #: NWS-2018-564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

EXISTING WETLAND PLAN VIEW

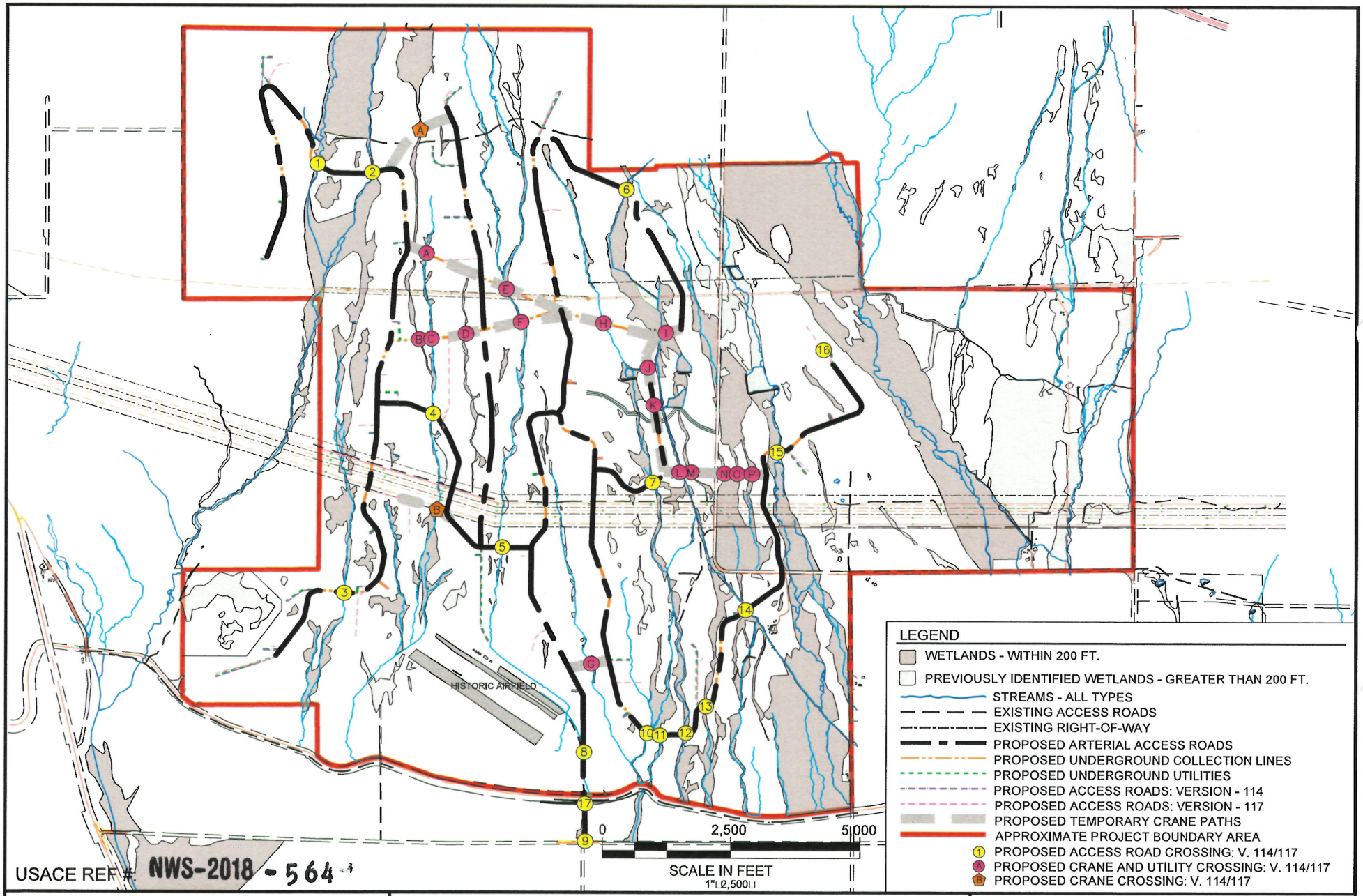
S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

Grette Associates
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

SHEET NO. 2 OF 7 DATE: 5/15/18



LEGEND

- WETLANDS - WITHIN 200 FT.
- PREVIOUSLY IDENTIFIED WETLANDS - GREATER THAN 200 FT.
- STREAMS - ALL TYPES
- EXISTING ACCESS ROADS
- EXISTING RIGHT-OF-WAY
- PROPOSED ARTERIAL ACCESS ROADS
- PROPOSED UNDERGROUND COLLECTION LINES
- PROPOSED UNDERGROUND UTILITIES
- PROPOSED ACCESS ROADS: VERSION - 114
- PROPOSED ACCESS ROADS: VERSION - 117
- PROPOSED TEMPORARY CRANE PATHS
- APPROXIMATE PROJECT BOUNDARY AREA
- (1) PROPOSED ACCESS ROAD CROSSING: V. 114/117
- (A) PROPOSED CRANE AND UTILITY CROSSING: V. 114/117
- (B) PROPOSED CRANE CROSSING: V. 114/117

USACE REF #: NWS-2018 - 564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

WETLAND AND STREAM CROSSING PLAN VIEW

S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

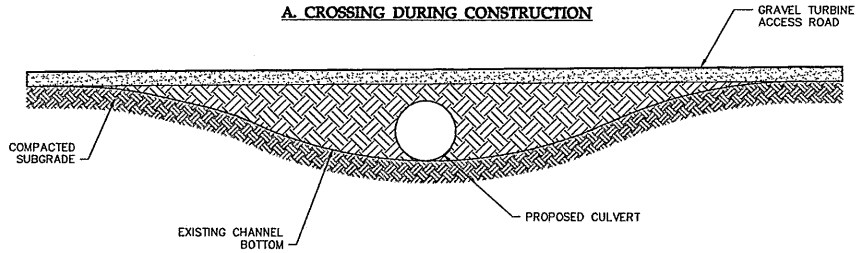
Grette Associates
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

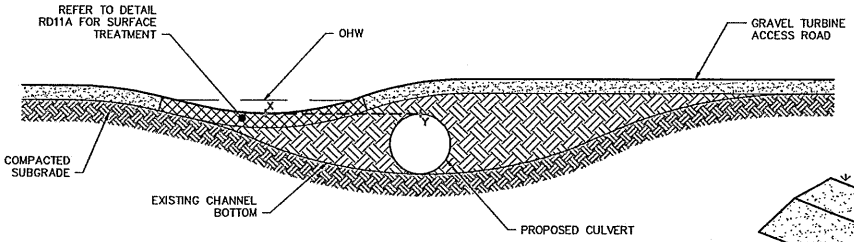
LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

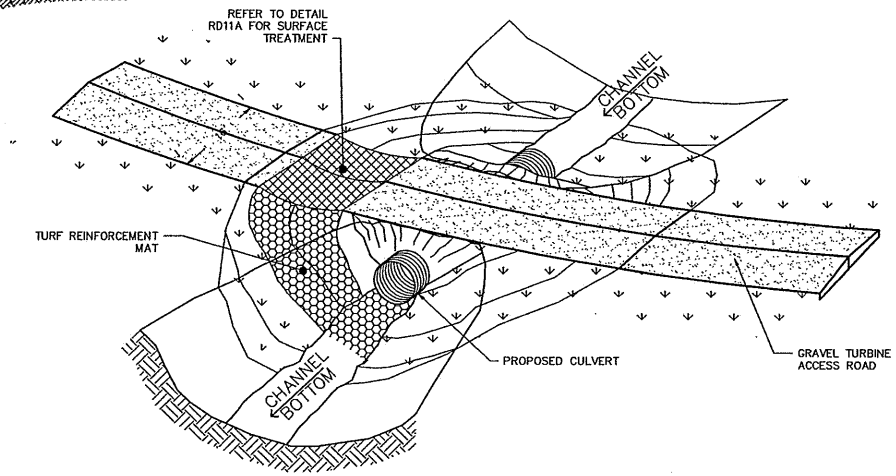
SHEET NO. 3 OF 7 DATE: 5/15/18

A. CROSSING DURING CONSTRUCTION



B. POST CONSTRUCTION - PERMANENT CROSSING





NOTE:

1. CONTRACTOR SHALL CONSTRUCT TEMPORARY CROSSING DURING CONSTRUCTION TO ACCOMMODATE TURBINE DELIVERIES. OVERFLOW SWALE SHALL BE EXCAVATED AS SOON AS FEASIBLE AFTER TURBINE DELIVERIES ARE COMPLETE.
2. CULVERT SHALL BE SIZED TO ACCOMMODATE NUISANCE FLOWS ONLY. LESS FREQUENT RAIN EVENTS WILL OVERTOP THE ROAD.
3. THE ELEVATION OF PERMANENT OVERFLOW SWALE (X) SHALL BE LESS THAN OR EQUAL TO THE TOP OF FLOW IN THE CULVERT (Y).

Westwood	PERMANENT TURBINE ACCESS ROAD CULVERT CROSSING	LAST REVISED: 07/25/16 RD09-A

USACE REF #: NWS-2018-564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

PERMANENT ACCESS ROAD CULVERT CROSSING

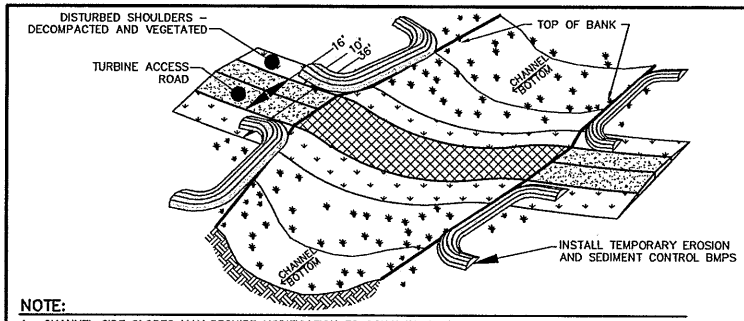
S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

Grette Associates
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

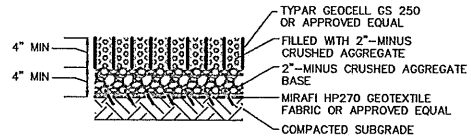
SHEET NO. 4 OF 7 DATE: 5/29/18



NOTE:

1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL THAT MEETS TURBINE COMPONENT DELIVERY REQUIREMENTS.
2. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS CLOSE TO 90–DEGREES AS POSSIBLE.
3. THE FINISHED ACCESS ROAD SURFACE SHALL BE AT AN ELEVATION THAT ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF THE ROAD OR ON THE ROAD SURFACE.
4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL.
5. REFER TO DETAIL RD11A FOR ARMORED SURFACE TREATMENT OPTIONS.

Westwood	PERMANENT TURBINE ACCESS ROAD LOW WATER CROSSING	LAST REVISED: 03/09/17 RD11



STANDARD DUTY

Westwood	ARMORED SURFACE TREATMENTS AT LOW WATER CROSSINGS	LAST REVISED: 03/09/17 RD11A

USACE REF #: NWS-2018 - 564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

LOW WATER CROSSING DESIGN DETAILS

S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

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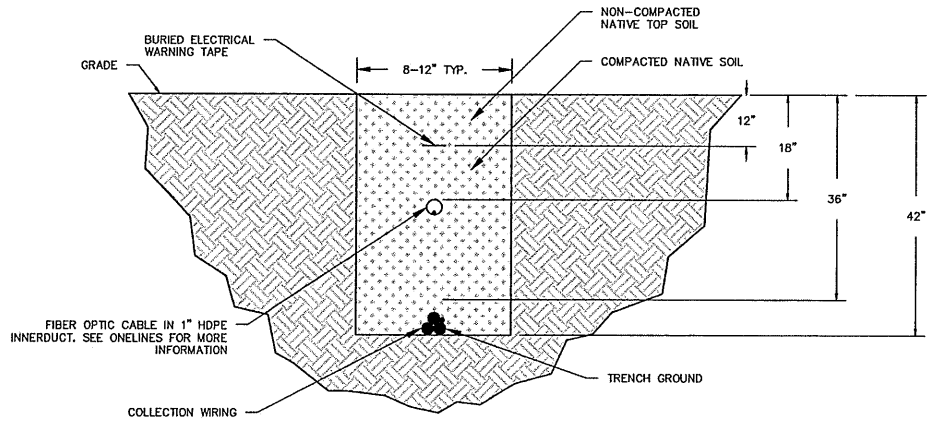
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

SHEET NO. 5 OF 7 DATE: 5/29/18



Westwood | MVAC & FIBER OPTIC TRENCH (NTS) | LAST REVISED: 07/26/16 | TR01

USACE REF #: NWS-2018 - 564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
2. NELSON GELBVIEH RANCH LLC
3. ROAN, JAMES P ETUX
4. WADE, JOANNE M &WHITE, JACK

COLLECTION TRENCH CROSS SECTION

S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

Grette Associates
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
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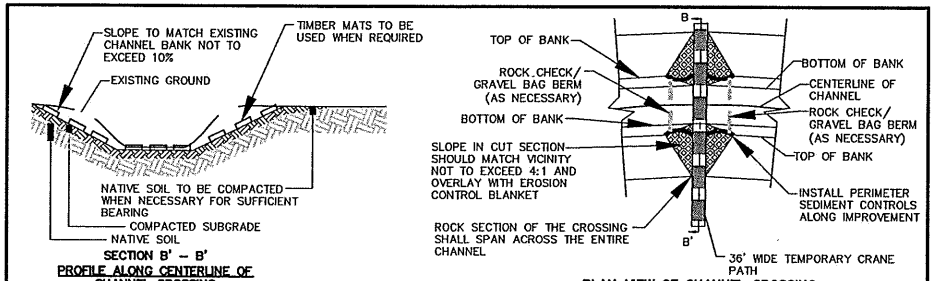
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

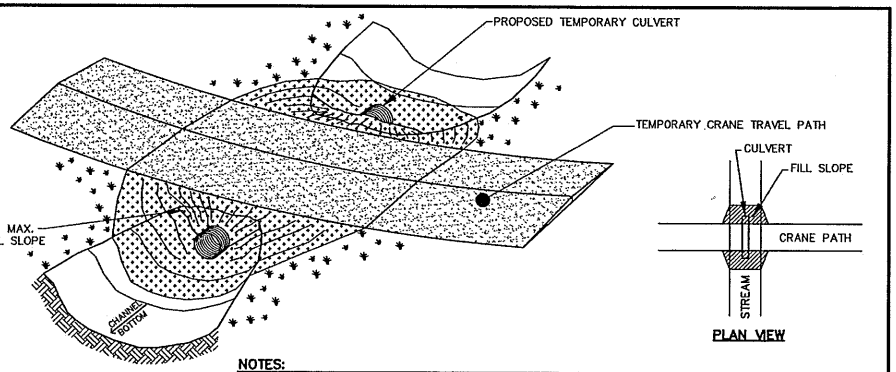
SHEET NO. 6 OF 7 DATE: 5/29/18



NOTE:

1. CHANNEL SLOPES TO BE MODIFIED TEMPORARILY DURING CONSTRUCTION TO ALLOW FOR ADEQUATE CRANE CROSSING AND RESTORE TO FINAL CONDITIONS UPON SITE RESTORATION.
2. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS.
2. CROSSINGS SHALL HAVE THE TOP-MOST SURFACE LAYER A MINIMUM OF 2.5 INCHES BELOW THE DRAINAGE CHANNEL BOTTOM.
3. THE CRANE WALK SHALL CROSS THE DITCH AT 90° ANGLE.
4. THE TOP BED OF THE CHANNEL CROSSING SHALL CONFORM TO THE EXISTING DITCH CROSS SECTIONAL SLOPES.
5. COMPACTION MAY BE FIELD ADJUSTED TO ACHIEVE SUFFICIENT BEARING CAPACITIES AS ARE NECESSARY FOR ANTICIPATED ROAD USE.
6. ROCK CHECK DAMS OR GRAVEL BAG BERMS MAY BE NECESSARY IF FLOWS AND DRAINAGE AREAS REQUIRE.

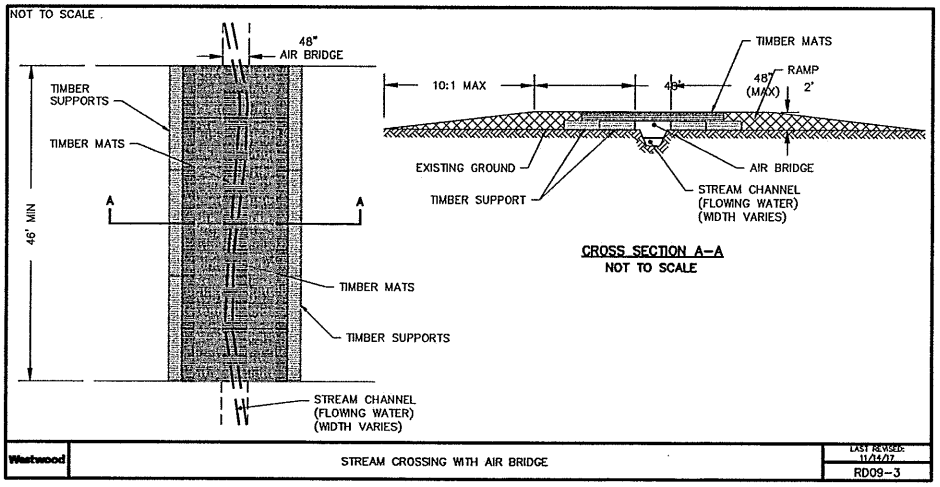
Westwood	WATERBODY/DRAINAGE SWALE TIMBER MAT CRANE CROSSING	LAST REVISED: 3/7/04 RD12



NOTES:

1. CULVERT INSTALLATION SHALL CONFORM WITH MANUFACTURERS RECOMMENDATION FOR INSTALLATION.
2. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION/REMOVAL.
3. UPON REMOVAL OF TEMPORARY CROSSING, THE DISTURBED AREA SHALL BE RESTORED TO NATIVE CONDITIONS.

Westwood	TYPICAL TEMPORARY CRANE TRAVEL PATH STREAM CROSSING WITH EROSION CONTROL BLANKETS	LAST REVISED: 04/08/09 RD13



Westwood	STREAM CROSSING WITH AIR BRIDGE	LAST REVISED: 11/14/07 RD09-3

USACE REF #: NWS-2018 - 564

PURPOSE: DEVELOP A COMMERCIALLY VIABLE WIND ENERGY FACILITY

Adjacent Property Owners:

1. WA STATE DNR
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4. WADE, JOANNE M &WHITE, JACK

CRANE CROSSING DESIGN DETAILS

S-T-R: 13,17-21,25,29,30 - 19N - 17/18E W.M.
ADDRESS:

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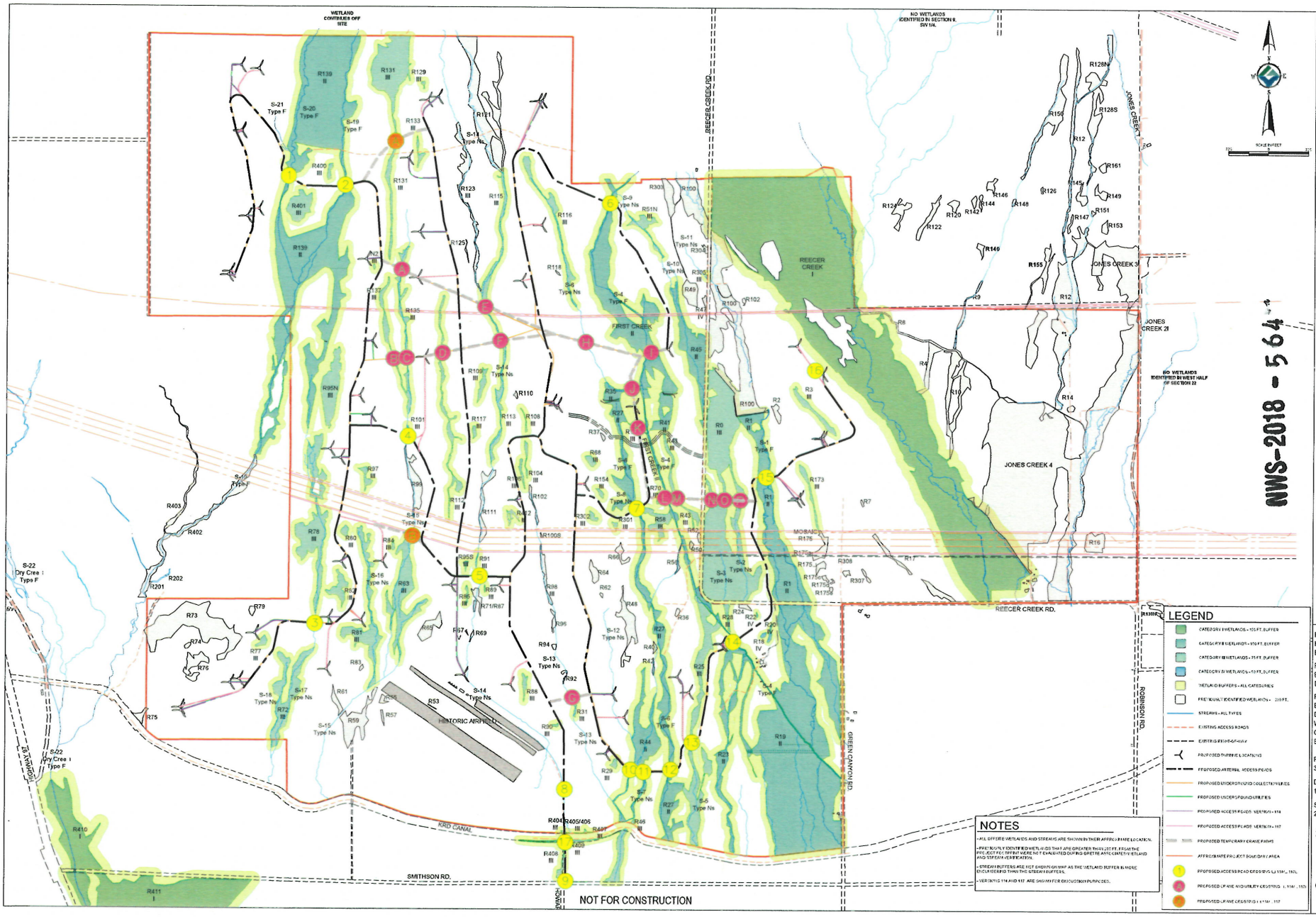
ENVIRONMENTAL CONSULTANTS

PROJECT: DESERT CLAIM WIND POWER PROJECT

LATITUDE: 47.1243056 N LAT.
LONGITUDE: -120.6338722 W LONG.
COUNTY OF: KITTITAS
STATE: WASHINGTON
APPLICANT: DESERT CLAIM WIND POWER, LLC

SHEET NO. 7 OF 7 DATE: 5/29/18



NWS-2018 - 564

DELINEATION MAP

DESERT CLAIM WIND POWER PROJECT

Grette Associates LLC
ENVIRONMENTAL CONSULTANTS
2102 North 30th Street, Suite A
TACOMA, WA 98403
(253) 573-9300
grettеassociates.com

FOR PERMIT USE ONLY

PROJECT LOCATION:
KITTITAS COUNTY
ELLENSBERG, WA

PREPARED FOR:
EDF RENEWABLE DEVELOPMENT, INC.

PROJECT MANAGER:
BOYLE
DRAFTER:
WALLIN
CHECKED:
BOYLE

PROJECT NO:
3010.001

DATE: 12/18/17 REVISED: 05/10/18

SHEET SIZE:
24" X 36"

SHEET 1 OF 1