

Mad River Properties, Inc.
2660 Clay Road Mckinleyville, CA 95519; (707) 496-0054

Daniel Egan
P.O. Box 241
Redcrest, CA 95569

Daniel Egan Less Than Three Acre Conversion Mitigation Plan

This document has been prepared pursuant to Section 55.4.10(j) of the Humboldt County Commercial Medical Marijuana Land Use Ordinance, applications for Commercial Cannabis Activity occupying sites created through prior unauthorized conversion of timberland. The document evaluates site conditions and conversion history for the parcel and contains a Registered Professional Foresters (RPF's) recommendation as to remedial actions necessary to bring the conversion area into compliance with provisions of the Forest Practice Act.

1. Contact Information

a. Timberland/Timber Owner of Record:

Daniel Egan
P.O. Box 241
Redcrest, CA 95569

b. Registered Professional Forester Preparing Report:

Mike Atkins, RPF #2613
2660 Clay Rd
Mckinleyville, CA 95519
(707) 496-0054

2. Location of Project

a. Site Address: 1759 Dyerville Loop Rd, Redcrest, CA 95569

b. Community Area: Myers Flat

c. Assessor's Parcel No(s): 211-151-017 and 211-151-018

d. Parcel Size(s): 29 Ac.

3. Project Description

a. Timber stand characteristics including species composition and age class.

The Daniel Egan property is composed of a mixed Redwood / Douglas fir forest. The current composition consists primarily of an uneven aged stand of second growth Redwood, Douglas-fir, Tan oak, and pacific madrone with a minor amount of other hardwood species. All species combined (conifer & hardwood) basal areas is approximately 206 square feet (sq. ft.) per acre with 85% closed canopy. The property is zoned TPZ.

b. Watercourse and Lake Protection Zones (WLPZ) which exist within the boundaries of the parcel or immediate vicinity of the project (Section 916.4)

The property contains several class II and III watercourses that require WLPZ or ELZ protection. As per the Forest Practice Rules, the riparian buffers requirements are listed as follows:

Class II standard watercourse 14CCR 916.9(g): (Class II watercourses within the Coastal Anadromy Zone)

ZONE WIDTHS:

Channel Zone = channel between the WTL.

<30% = 15' Core Zone and 50' Inner Zone

30%-50% = 15' Core Zone and 75' Inner Zone

>50% = 15' Core Zone and 100' Inner Zone

Class III watercourses 14CCR 916.9(h): (Class III watercourses within a coastal anadromy zone)

ELZ WIDTHS:

30 ft. for side slopes <30%.

50 ft. for side slopes >30%.

As per the zone widths listed above it appears that no portions of Site A, B, C or D are present within the riparian zones of Class II and III watercourses. See Site discussion below for more specifics.

c. Describe the timber harvest history, including timber operations within the parcel prior to the unauthorized conversion.

The area has had at least one previous entree. The past harvesting incorporated the removal of large diameter old growth by tractor skidding. The southwest corner of the property above Dyerville Loop Road appears to have been harvested twice, and is now occupied by a young 3rd growth redwood stand.

d. Identify and describe any portions of the parcel that are part of the unauthorized conversion of timberland. Calculate the total acreage of all areas converted. Differentiate between discrete (non-contiguous) areas of conversion and provide relevant sub-totals of these acreages.

There are 4 sites, totaling 2.4 acres of converted land on the property. The table below lists the sites with the acres cleared.

Site #	Acres Converted	Date Converted	Ownership Status
A	0.748	2009	Michael J. Korejko or Royal Venberg
B	0.818	2009	Michael J. Korejko or Royal Venberg
C	0.436	Unknown	Unknown
D	0.384	2005	Royal Venberg

4. Analysis of Consistency Between Unauthorized Conversion and Applicable Forest Practice Rules.

Conversion Site A (The East Garden)

History: The site appears to be at the location of an old log landing that became overgrown with brush and small trees. In 2009 the area was cleared, regraded and greenhouses were built for cannabis cultivation. No timber harvesting has occurred in or around this site in the last ten years. No permit was obtained from

CALFIRE to clear the area for such activities. The conversion area is not within any riparian buffer zones. According to a 2017 CNDDDB database search several rare species may be present near the site. *Emys marmorata* (western pond turtle) may be present off the property but within 1000' feet of the site to the north. *Bombus occidentalis* (western bumble bee) may be present at or near the site. And the rare plant *Sidaica malachroides* (maple-leafed checkerbloom) maybe present near the site to the west. No hazard reduction issues present. Ownership at the time of the illegal conversion was Michael J. Korejko or Royal Venberg.

Numbers of acres converted without 14CCR1104.1: **0.75 ac.**

Mitigations for Site: Road points (RP) are specific locations that are currently in conflict with the Forest Practice Rules or have potential to cause environmental damage. Road points have been identified from where the access road enters the property to in and around the conversion site.

RP#1: Drain surface drainage. Install rocked rolling dip. Line/cap the dip with 2" to 4" diameter rock to divert surface silt and debris off the road prism. 14CCR 923.5

RP#2: Existing undersize 14" diameter culvert for a Class III watercourse across a permanent rocked road. Excavate and install a 24" culvert to the stream grade as feasible. Rock the inlet and outlet with 6"- 12" diameter sharp angular rock. Install rocked rolling dips 50 feet from the stream on both forks of the road that are uphill from the crossing to divert road drainage away from the stream crossing. Line/cap the dips with 4" - 6" diameter rock 14CCR 923.5

RP#3: Existing slide at the edge of a permeant rocked road, slide has been mitigated. Add 2"- 4" diameter rock to road surface above the slide, and maintain existing erosion control structures through the winter pirod. 14CCR 923.5

RP#4: Existing 10 diameter culvert cross drain on a permanent rocked road to divert runoff from the inside ditch to the downhill side of the road. Rock the culvert inlet and outlet with 4" - 6" diameter rock. 14CCR 923.5

RP#5: Existing recent slide extending from the county road to the eastern edge of site A. excavate the loose fill at the top of the slide 10 feet back toward the greenhouses. Install a 1foot high berm along the top edge of the slide to ensure that drainage is diverted down the existing ditches and off the north edge of site. No drainage from site A shall be allowed to run onto the slide. An erosion control mat shall be installed from the edge of site A extending at least 20 feet down the face of the slide. The mat shall be held in place with straw waddles and wood stakes as needed. Exposed soil shall be grass seeded and straw mulched as far down the slope as is feasible. 14CCR 923.5

RP#6: Existing abandon skid trail on the slope above site A. Install water bars along skid trail and grass seed and straw mulch all exposed bare soil. 14CCR 923.5

RP#6.1: Existing soil storage pile partially covered. Contain all soil under tarp and stake the edges with straw waddles, or remove all foreign soil off the property. 14CCR 923.5

Conversion Site B (The West Garden)

History: The site appears to be at the location of an old log landing that became overgrown with brush and small trees. In 2009 the main area was cleared, regraded and greenhouses were built for cannabis cultivation. In 2016 the arm to the west was cleared as a site for a well and large water storage tank. No timber harvesting has occurred in or around this site in the last ten years. No permit was obtained from CALFIRE to clear the

area for such activities. The conversion area is not within any riparian buffer zones. According to a 2017 CNDDDB database search several rare species may be present near the site. *Emys marmorata* (western pond turtle) may be present off the property but within 1000' feet of the site to the north. *Bombus occidentalis* (western bumble bee) may be present at or near the site. And the rare plant *Sidaica malachroides* (maple-leafed checkerbloom) maybe present near the site to the west. Hazard reduction issues are present onsite. Ownership at the time of the main illegal conversion was Michael J. Korejko or Royal Venberg. Ownership at the time the western arm was converted was Daniel Egan.

Number of acres converted without 14CCR 1104.1: **0.82 ac.**

Mitigation for Site: Road points have been identified from where this site's access road leaves the main access road to and around the conversion site. 14CCR 923.5

RP#7: Existing undersize 12" diameter culvert on a Class III watercourse across a permanent rock road. Excavate and install a 24" culvert to the stream grade as feasible. Install a downspout at culvert outlet to prevent outflow erosion. Rock the inlet and outlet with 6"- 12" diameter sharp angular rock. Install rocked rolling dip 50 feet from the crossing on the uphill side of the road to disconnect road drainage from the watercourse. Line/cap the dip with 4" to 6" diameter rock. 14CCR 923.5

RP#8: Drain surface drainage. Install rocked rolling dip. Line/cap the dip with 4" to 6" diameter rock to divert surface silt and debris off the road prism. 14CCR 923.5

RP#9: Existing bear soil on the newly graded portion of conversion site (B). The graded flat between the greenhouses and the large metal water storage tank shall be rocked with 1"- 2" rock. All other areas of exposed soil within site B shall be grass seeded, and straw waddled to prevent surface erosion. 14CCR 923.5

RP#9.1: Hazard reduction issue present on site B. The small log pile on the north edge of the site shall be cut into 24" or shorter sections and utilized as firewood. 14CCR 1104.1(a)(2)(D)(6).

RP#9.2: Existing soil storage pile partially covered. Contain all soil under tarp and stake the edges with straw waddles, or remove all foreign soil off the property. 14CCR 923.5

RP#9.3 Reduce skid trail runoff onto site B. Install water bars or rolling dips on the skid trail between site B and the water storage tanks at the top of the hill. 14CCR 923.5

Conversion Site C (Possessing Area)

Number of acres converted without 14CCR 1104.1: **0.44 ac.**

Mitigation for Site: Road points have been identified along this site's access road.

History: The site appears to have been historically unstocked. The 1998 imagery shows a large open area which has been encroached slightly to its current size. No timber harvesting has occurred in or around this site in the last ten years. No permit was obtained from CALFIRE to clear the area for such activities. The conversion area is not within any riparian buffer zones. According to a 2017 CNDDDB database search several rare species may be present near the site. *Emys marmorata* (western pond turtle) may be present off the property but within 1000' feet of the site to the north. *Bombus occidentalis* (western bumble bee) may be present at or near the site. And the rare plant *Sidaica malachroides* (maple-leafed checkerbloom) maybe present near the site to the west. No hazard reduction issues present. Ownership at the time of the illegal conversion is unknown.

RP#10: Drain surface drainage. Install rocked rolling dip. Line/cap the dip with 2” to 4” diameter rock to divert surface silt and debris off the road prism. 14CCR 923.5

Conversion Site D (House Site)

Number of acres converted without 14CCR 1104.1: **0.48 ac.**

Mitigation for Site: Hazard reduction issues need addressed at this site.

History: The site appears to have been part of an older house site that was expanded in 2005. No timber harvesting has occurred in or around this site in the last ten years. No permit was obtained from CALFIRE to clear the area for such activities. The conversion area is not within any riparian buffer zones. According to a 2017 CNDDDB database search several rare species may be present near the site. *Emys marmorata* (western pond turtle) may be present off the property but within 1000’ feet of the site to the north. *Bombus occidentalis* (western bumble bee) may be present at or near the site. And the rare plant *Sidaica malachroides* (maple-leafed checkerbloom) maybe present near the site to the west. Hazard reduction issues present are present. Ownership at the time of the illegal conversion was, Royal Venberg.

RP#10.1: Slash Pile Present onsite. Slash shall be treated onsite by burning, burying and/or chipping and scattering. 14CCR 1104.1(a)(2)(D)(6)).

6. Photos, Figures, and Maps

Conversion Site A (East Garden)



Figure 1. Site A looking northeast.



Figure 2. Road Point 2, photo taken below culvert outlet looking uphill.



Figure 3. Road Point 3. Looking north across the small slide.



Figure 4. Road Point 3. looking north, culvert inlet to the right.



Figure 5. Road Point 5, at the top of the large slide looking downhill toward the county road.



Figure 7. Large slide, from the county road looking uphill toward site A.



Figure 6. Road point 6.1, soil storage pile.



Figure 8. Road point 6, skid trail above site A.



Figure 9. Drainage ditches on site A, ditches run from the south to the north edge.

Conversion Site B (West Garden)



Figure 10. Site B, looking north



Figure 11. West arm of site B, looking west. Showing road point 9 (area needing rocked), and on the left road point 9.3 skid trail.



Figure 12. Wellhead in the foreground, log pile upper right and large water tank in the background.



Figure 13. Road Point 9.2, Soil storage pile.

Conversion Site C (Processing Area)



Figure 14. Site C, Photo taken from near the county road looking north.



Figure 15. Site C, looking uphill toward the county road.

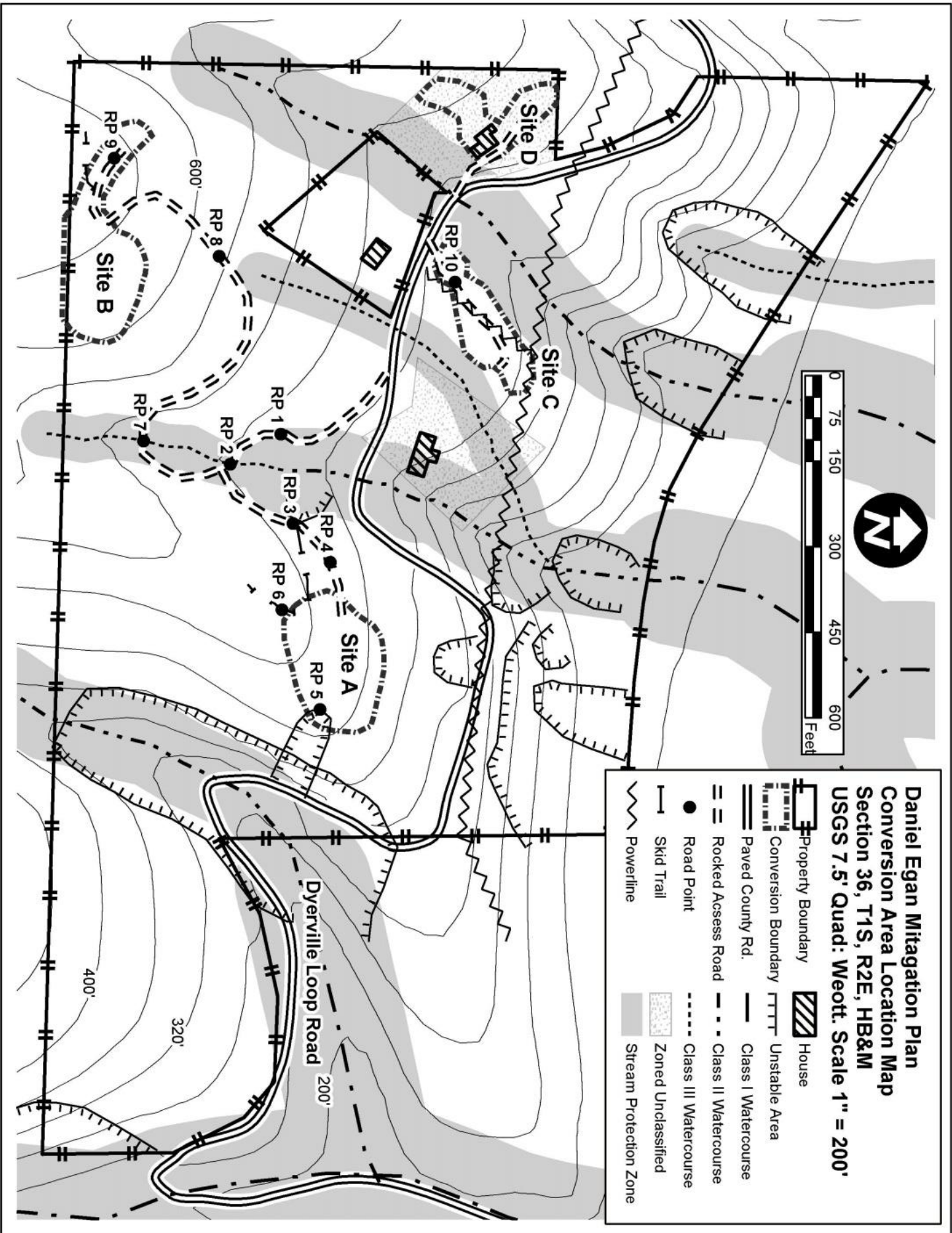
Conversion Site D (House Site)

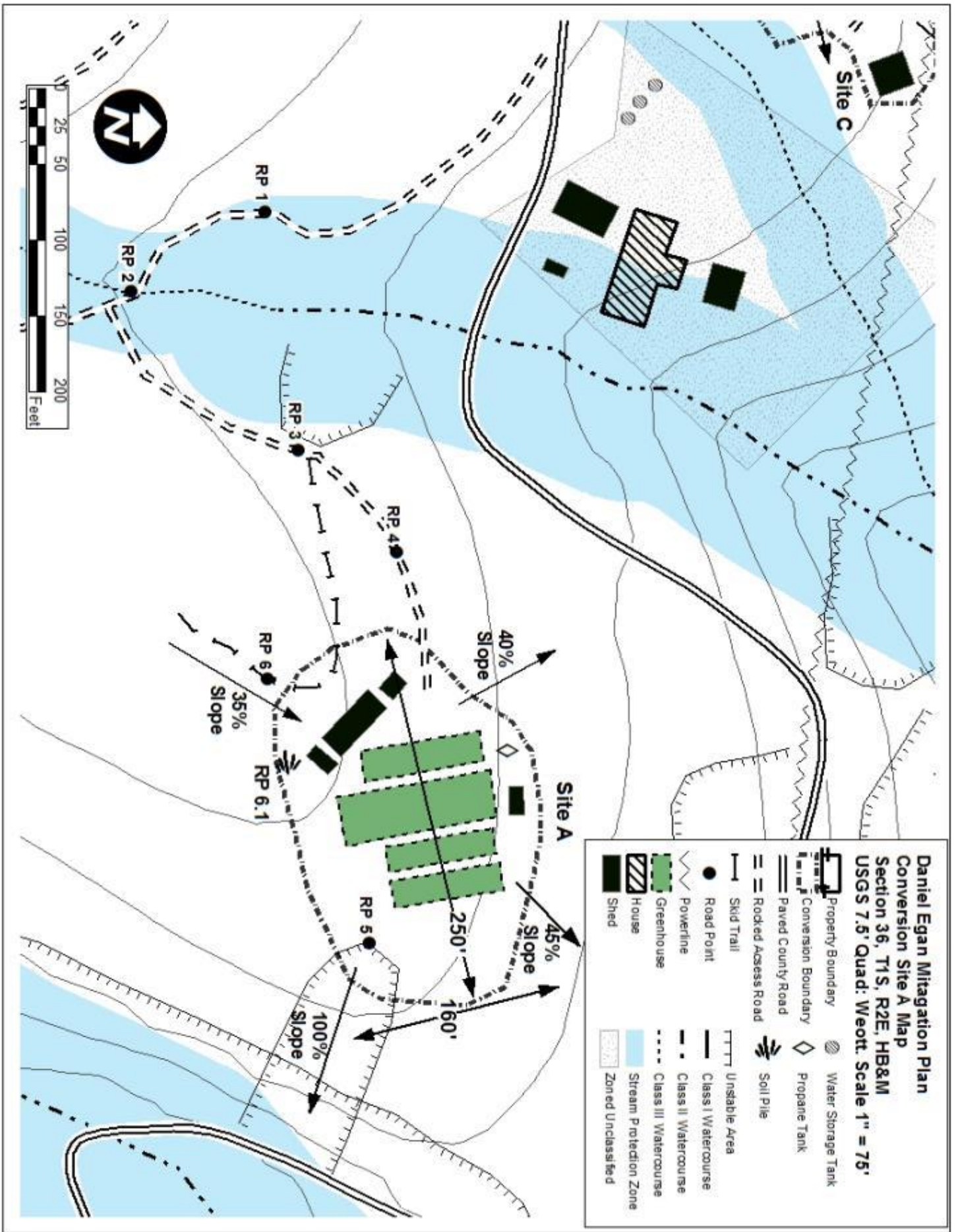


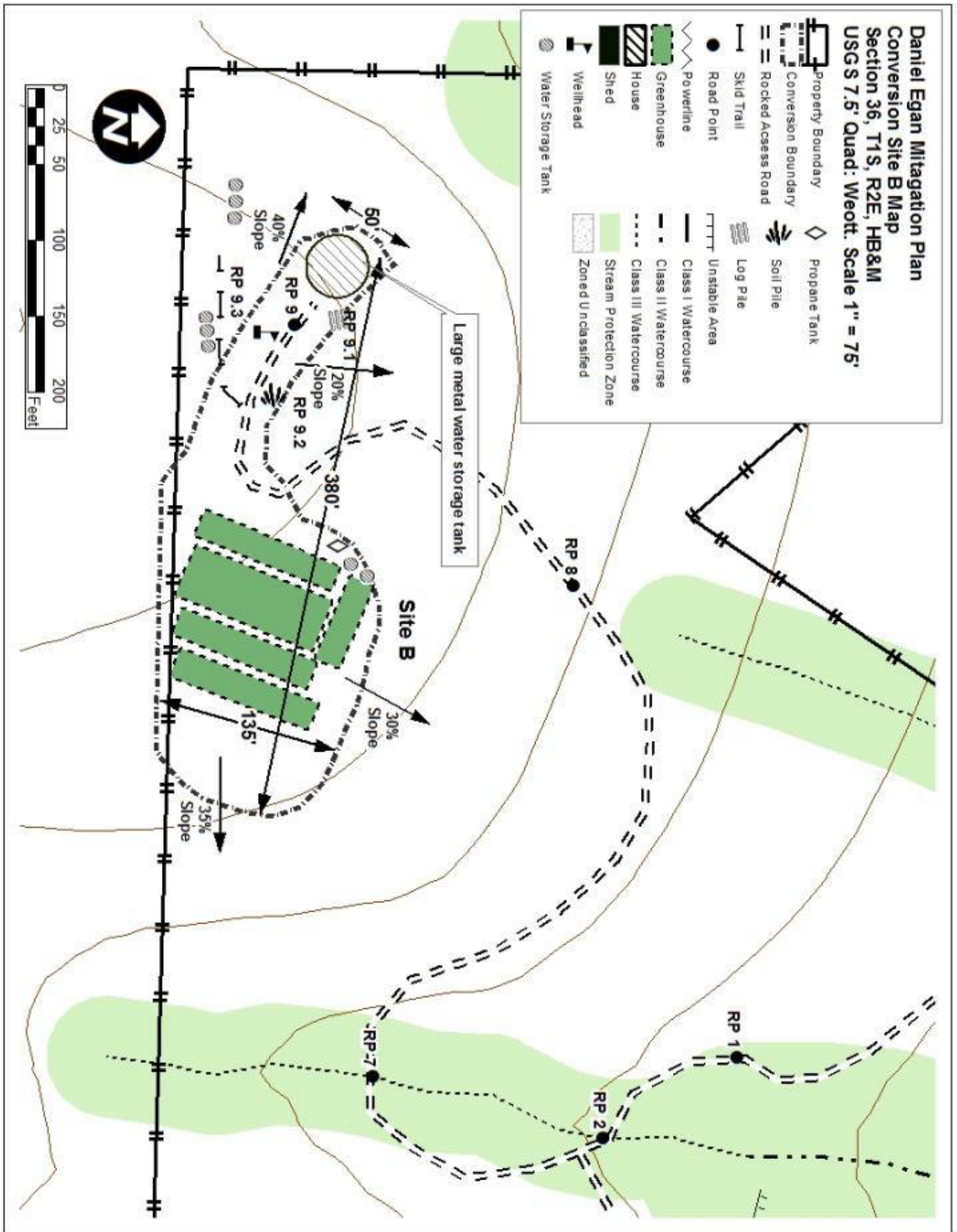
Figure 16. Southern Portion of Site D looking north toward the house.

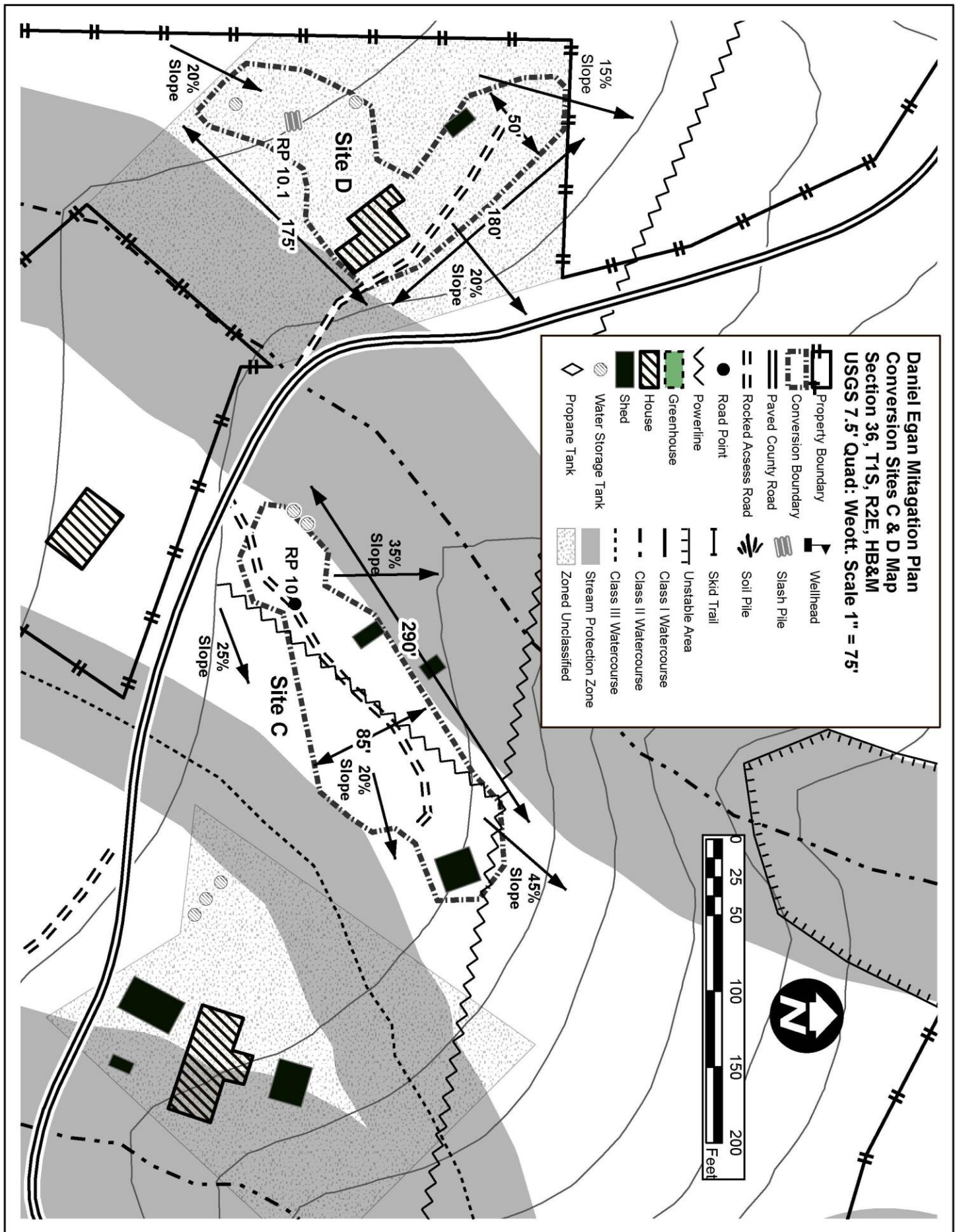


Figure 17. Northwestern portion of Site D looking west.









RECORDING REQUESTED BY:
Fidelity National Title Company of California
Escrow No.: 14-240002-NS
Locate No.: CARNT0912-0912-0001-0000240002
Title No.: 14-240002

When Recorded Mail Document
and Tax Statement To:
Daniel Egan
19137-9 Index St.
Northridge, CA 91326

2014-008342-4
Recorded - Official Records
Humboldt County, California
Carolyn Cmlch, Recorder
Recorded by: FNTICO
Rec Fee: \$22.00

Survey Mon Fee: \$10.00

[Doc Trf Tax: \$660.00
Clerk: MM Total: \$692.00
May 12, 2014 at 15:39:44

APN: 211-151-017 and 211-151-018

SPACE ABOVE THIS LINE FOR RECORDER'S
USE

**GRANT DEED EXECUTED IN COUNTERPART, RECORDED AS
ONE DOCUMENT**

The undersigned grantor(s) declare(s)
Documentary transfer tax is \$660.00

- computed on full value of property conveyed, or
- computed on full value less value of liens or encumbrances remaining at time of sale,
- Unincorporated Area

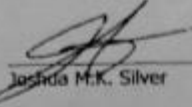
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Joshua M.K. Silver, a single man and Jeffrey Malinovitz, a married man as his sole and separate property as joint tenants

hereby GRANT(S) to Daniel Egan, a married man as his sole and separate property
the following described real property in the County of Humboldt, State of California:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

DATED: April 29, 2014

State of California }
County of Humboldt }


Joshua M.K. Silver

On 5.1.14 before me,
N. Slater Notary Public
(here insert name and title of the officer) personally appeared
Joshua M.K. Silver

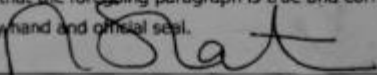
Jeffrey Malinovitz

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature:  (Seal)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

FD-213 (Rev. 12/07)
(grant) (10-03) (Rev. 07-11)

GRANT DEED

RECORDING REQUESTED BY
Humboldt Land Title Company
WHEN RECORDED RETURN TO
AND MAIL TAX STATEMENTS TO:

Name **Joshua M.K. Silver**
Address **7181 Worthington Drive
Eureka, Ca. 95503**

2010-1232-3
Recorded — Official Records
Humboldt County, California
Carolyn Crnich, Recorder

Recorded by HUMBOLDT LAND TITLE CO.
Rec Fee 13.00
Doc Trf Tax 275.00
Survey Mon 10.00
Clerk: MM Total: 298.00
Jan 19, 2010 at 15:04

Order No. 00128362-001-FN/kv

SPACE ABO

GRANT DEED

THE UNDERSIGNED GRANTOR(s) DECLARE(s)
City of unincorporated area
Parcel No. 211-151-017 211-151-018

Documentary Transfer Tax is \$275.00
 computed on full value of interest or property conveyed, or
 full value less value of liens or encumbrances remaining at
the time of sale

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
Michael J. Korejko, a married man dealing with his separate property
hereby GRANT(s) to
Joshua M.K. Silver, a single man; and Jeffrey Malnovitz, a married man as his separate property, as joint tenants
the following real property in the unincorporated area of the
County of **Humboldt, State of California:**
See Exhibit A attached hereto and made a part hereof.

Dated: January 5, 2010

State of California
County of Humboldt

Michael J. Korejko

Michael J. Korejko

On January 15, 2010 before me, Fatima Naylor
a Notary Public, personally appeared _____
Michael J. Korejko

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Fatima Naylor*

My commission expires: 11-18-11



(This area for official notarial seal)

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Exhibit A

DESCRIPTION

That real property situate in the County of Humboldt, State of California, described as follows:

PARCEL ONE:

All that portion of Lot 1 of Section 36, Township 1 South, Range 2 East, Humboldt Meridian, that lies South of the right of way of the Northwestern Pacific Railroad Company as described in the Deed recorded January 21, 1910 in Book 110 of Deeds, Page 331, Humboldt County Records.

EXCEPTING THEREFROM those portions thereof, described in the following Deeds;

1. Deed to Charlie C. Hoskins and Velma L. Hoskins, husband and wife recorded June 8, 1966, in Book 885 of Official Records, Page 393, Humboldt County Records.
2. Deed to Larry W. Hurd and Karen J. Hurd, husband and wife recorded July 26, 1966, in Book 891 of Official Records, Page 208, Humboldt County Records.
3. Deed to Juan Freeman and Anne Freeman, husband and wife recorded February 27, 1976 in Book 1330 of Official Records, Page 327, Humboldt County Records.

PARCEL TWO:

BEGINNING at the Southwest corner of the Southeast Quarter of the Northwest Quarter of Section 36, Township 1 South, Range 2 East, Humboldt Meridian;
thence North 0 degrees 37 minutes 24 seconds West, along the West line of said Southeast Quarter of the Northwest Quarter, 314.68 feet;
thence North 61 degrees 47 minutes 33 seconds East, 153.25 feet;
thence North 85 degrees 53 minutes 39 seconds East, 295.02 feet;
thence South 34 degrees 59 minutes 54 seconds East, 216.38 feet;
thence South, 229.00 feet to the South line of the Southeast Quarter of the Northwest Quarter of said Section 36;
thence along said South line South 89 degrees 47 minutes 39 seconds West, 550.00 feet to the point of beginning, as shown on Parcel Map No. 927 filed in Book 8, Page 49 of Parcel Maps.

PARCEL THREE:

That portion of the Southeast Quarter of the Northeast Quarter and the Northeast Quarter of the Southeast Quarter of Section 35, Township 1 South, Range 2 East, Humboldt Meridian, described as follows:

The right to take water from a spring or creek, together with the right to replace, repair and maintain a spring box or other collection device and appurtenant facilities, the location of which is described as follows:

BEGINNING at a point on Dyerville Loop Road, which is approximately 1.35 miles from the Avenue of the Giants, at the North end of Dyerville Loop Road;
thence Southerly over an existing dirt road approximately .2 miles or 1050 feet to a small grove of several Redwood Trees;
thence Easterly approximately 50 feet to an existing collection box in a spring or creek in a drainage running in a general Northerly direction along said dirt road.

Continued...

2010-1232-3

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DESCRIPTION CONTINUED...

Page 2

PARCEL FOUR:

A non-exclusive easement for replacement, repair or maintenance of water pipelines over strips of land 20 feet in width, the centerlines of which are the centerlines of the existing pipelines.

PARCEL FIVE:

A non-exclusive easement for ingress and egress over a strip of land 30 feet in width, the centerline of which is the centerline of the dirt road described in Parcel Three herein.

2010-1232-3

③

2009-11399-2
Recorded — Official Records
Humboldt County, California
Carolyn Crnich, Recorder

RECORDING REQUESTED BY:
MICHAEL KOREJKO
WHEN RECORDED MAIL DOCUMENT
AND TAX STATEMENT TO:

Recorded by korejko
Rec Fee 10.00
Clerk: MM Total: 10.00
May 27, 2009 at 10:46

MICHAEL KOREJKO
P.O. Box 144
Orleans, CA 95556

APN: 211-151-017 and 211-151-018 **GRANT DEED** – in lieu of foreclosure

The undersigned grantor declares
Documentary transfer tax is: \$ 0 LIEN TO FULL VALUE City tax: 0
[] computed on full value of property conveyed, or
[] computed on full value less value of liens or encumbrances remaining at time of sale
[x] unincorporated area City of _____

This Deed is an absolute conveyance, the consideration therefor, in addition to that above recited, being full satisfaction of all obligations secured by deed of trust executed on July 22, 2008 by Royal Venberg, a single man, to Fidelity National Title Insurance Company, a corporation, as Trustee, recorded on August 15, 2008 as Instrument No. 2008-20066-5, Official Records of Humboldt County, California. Grantor declares that this conveyance is freely and fairly made; that there are no agreements oral or written, other than the deed between Grantor and Grantee with respect to said land.

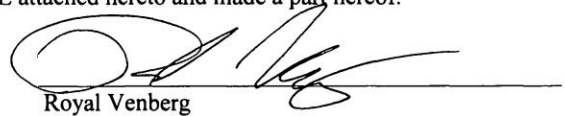
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

ROYAL VENBERG, a single man,
hereby grants to
MICHAEL KOREJKO, a married man as his sole and separate property,

the following described real property in the unincorporated area of the County of Humboldt, State of California:

See EXHIBIT ONE attached hereto and made a part hereof.

Dated: May 13, 2009

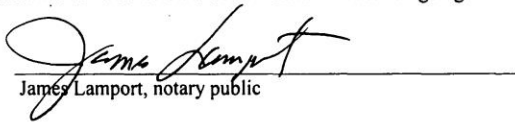

Royal Venberg

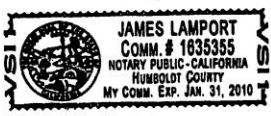
State of California }
County of Humboldt }

On May 13, 2009 before me, James Lamport, notary public, personally appeared ROYAL VENBERG, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity on behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.
(Seal)


James Lamport, notary public



①

EXHIBIT ONE

PARCEL ONE

All that portion of Lot 1 of Section 36, Township 1 South, Range 2 East, Humboldt Meridian, that lies South of the right of way of the Northwestern Pacific Railroad Company as described in the deed recorded January 21, 1910 in Book 110 of Deeds, page 331, Humboldt County Records.

EXCEPTING THEREFROM, those portions thereof, described in the following deeds:

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PARCEL TWO

BEGINNING at the Southwest corner of the Southeast Quarter of the Northwest Quarter of Section 36, Township 1 South, Range 2 East, Humboldt Meridian;
thence North 0 degrees 37 minutes 24 seconds West, along the West line of said Southeast Quarter of the Northwest Quarter, 314.68 feet;
thence North 61 degrees 47 minutes 33 seconds East, 153.25 feet;
thence North 85 degrees 53 minutes 39 seconds East, 295.02 feet;
thence South 34 degrees 59 minutes 54 seconds East, 216.38 feet;
thence South, 229.00 feet to the South line of the Southeast Quarter of the Northwest Quarter of said Section 36;
thence along said South line, South 89 degrees 47 minutes 39 seconds West, 550.00 feet to the point of beginning.

PARCEL THREE

That portion of Assessors Parcel Number 211-553-04, within the Southeast Quarter of the Northeast Quarter and the Northeast Quarter of the Southeast Quarter of Section 35, Township 1 South, Range 2 East, Humboldt Meridian, described as follows:

The right to take water from a spring or creek, together with the right to replace, repair and maintain a spring box or other collection device and appurtenant facilities, the location of which is described as follows:

Beginning at a point on Dyerville Loop Road, which is approximately 1.35 miles from the Avenue of the Giants, at the North end of Dyerville Loop Road, thence Southerly over an existing dirt road approximately .2 miles or 1050 feet to a small grove of several Redwood Trees, thence Easterly approximately 50 feet to an existing collection box in a spring or creek in a drainage running in a general Northerly direction along said dirt road.

PARCEL FOUR

A non-exclusive easement for replacement, repair or maintenance of water pipelines over strips of land 20 feet in width the centerlines of which are the centerlines of the existing pipelines.

PARCEL FIVE

A non-exclusive easement for ingress and egress over a strip of land 30 feet in width the centerline of which is the centerline of the dirt road described in Parcel Three herein.

2009-11399-2

②

Location: Daniel Egan Plan

(Enter data in fields with red-colored headings. Other data fields will be calculated automatically.)

Magnitude and Frequency Method for 100-year flood flow (A > 100 acres)

No.	Crossing	Area (acres) A	Basin maximum elevation (ft)*	Crossing elevation (ft)*	Area (mi ²) A	Avg. Annual Precipitation (in/yr) P	Index (mean basin elevation)	100-yr flood flow Q ₁₀₀ (cfs)			
								North Coast ⁽¹⁾ (NC)	Sierra ⁽²⁾ (S)	North-east ⁽³⁾ (NE)	Central Coast ⁽⁴⁾ (CC)
1	#2	10.7	840	475	0.017	58	657.5	13.4	17.5	20.2	20.0
2	#7	9	840	500	0.014	58	670	11.5	15.0	17.8	17.3
3											
4											
5											

*To estimate discharges for bridges, use elevations along watercourse at 85 percent and 10 percent of water-course length from crossing to drainage divide, respectively, instead of using maximum and crossing elevations.

See below for M&F equations

Rational Method for 100-year flood flow (A < 200 acres)

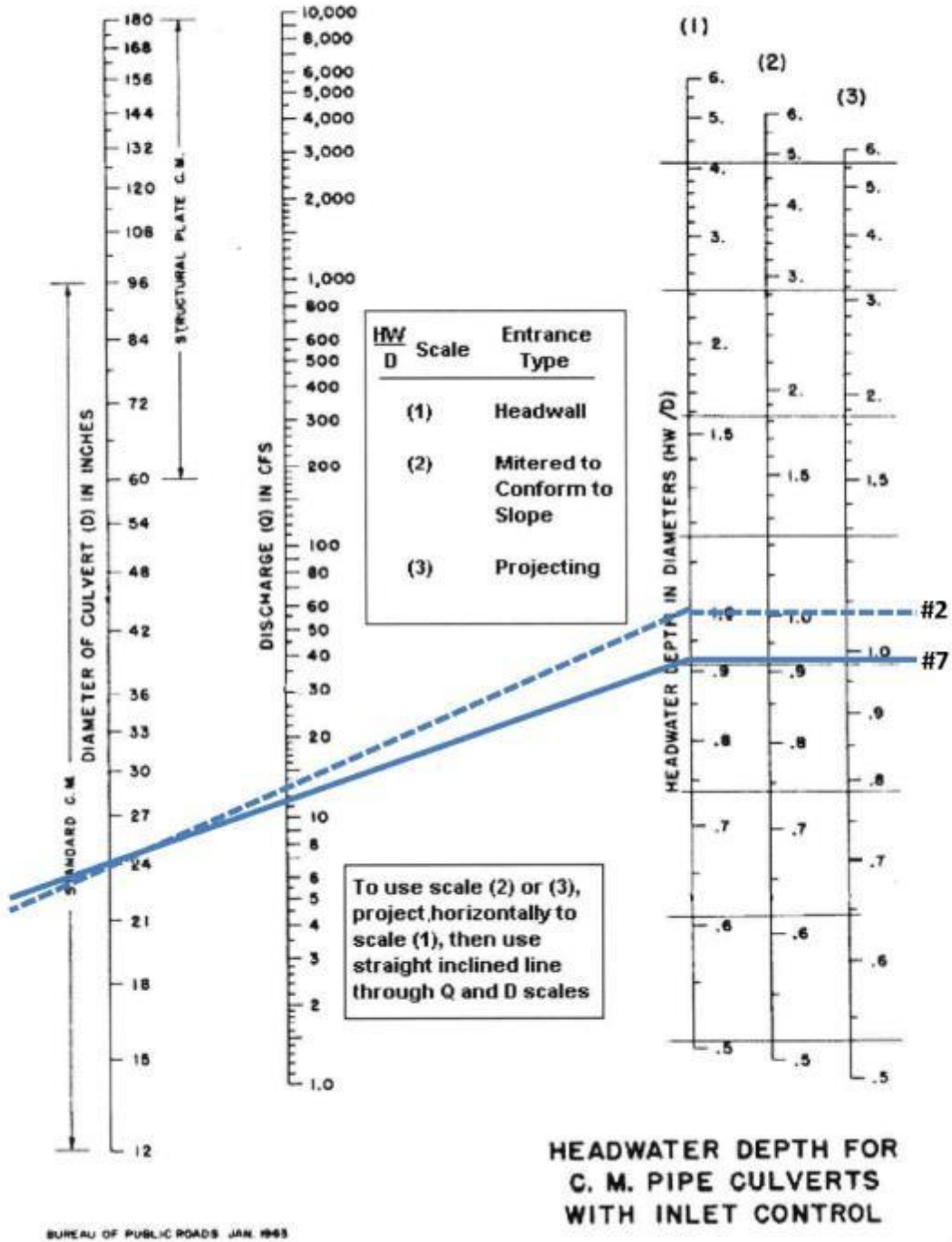
No.	Crossing	Channel length (to top of basin) L (mi)	Elevation difference (ft) H	Concentration time T _c (min)	Runoff coefficient C	100-year Return-Period Precipitation (in/hr) I*		Area (acres) A	100-yr flood flow Q ₁₀₀ (cfs)
						T _c = 60((11.9 X L ³ /H) ^{0.385})	Q ₁₀₀ = CIA		
1	#2	0.2395833	365	3	0.4	3.11	10.7	13.3	
2	#7	0.2130682	340	3	0.4	3.11	9	11.2	
3									
4									
5									

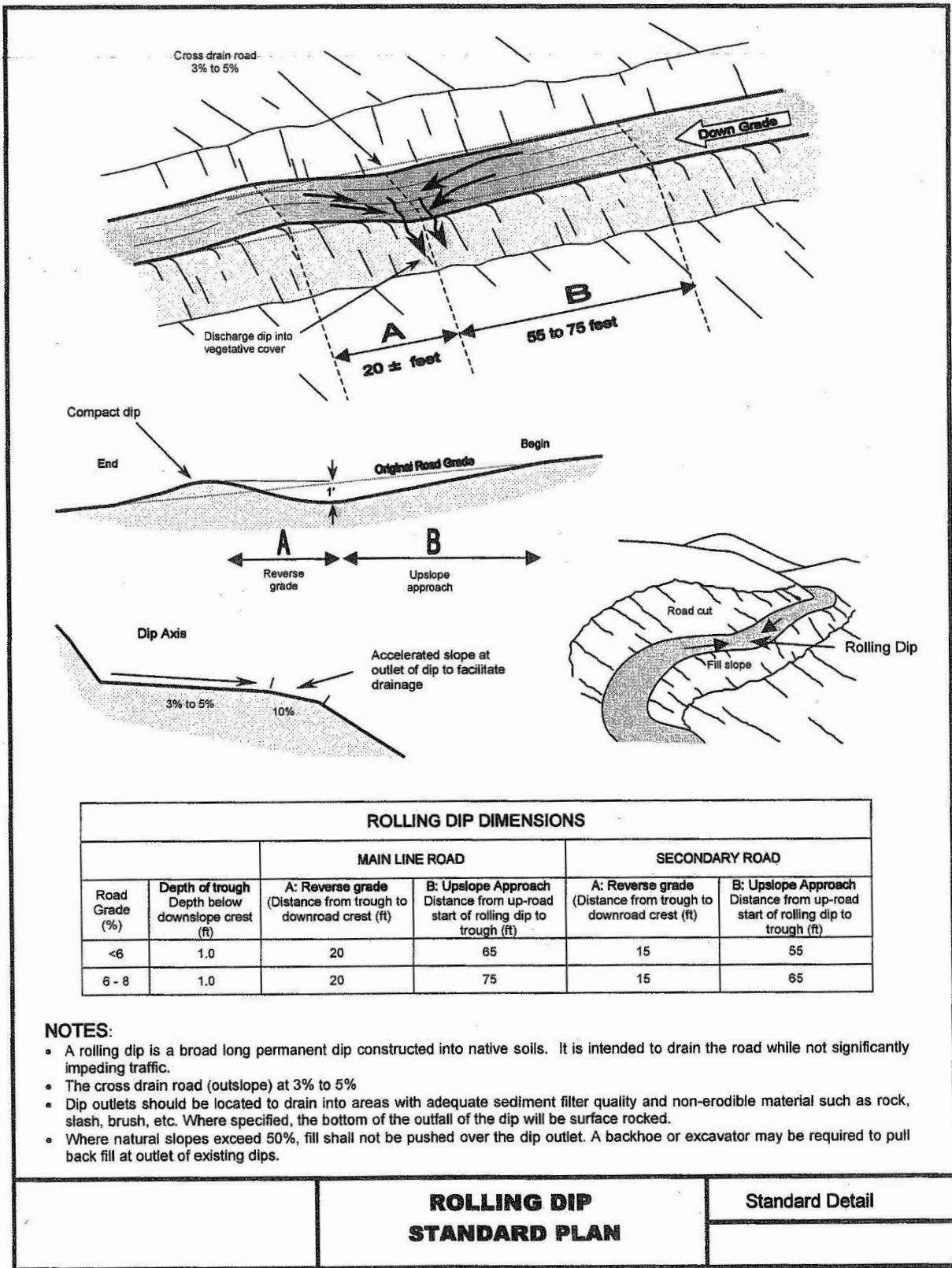
*Use 100-yr precipitation of duration similar to T_c or for 10 min, whichever is larger; convert to in/hr for input as "I"

Magnitude & Frequency Q₁₀₀ equations

- NC (1) Q₁₀₀ = 48.5(A)^{0.6000} (P)^{0.5300}
- S (2) Q₁₀₀ = 20.6(A)^{0.674} (P)^{1.24} (H)^{0.430}
- NE (3) Q₁₀₀ = 0.713(A)^{0.1429} (P)^{1.30}
- CC (4) Q₁₀₀ = 11.0(A)^{0.04} (P)^{0.534}

Daniel Egan Culvert Sizing



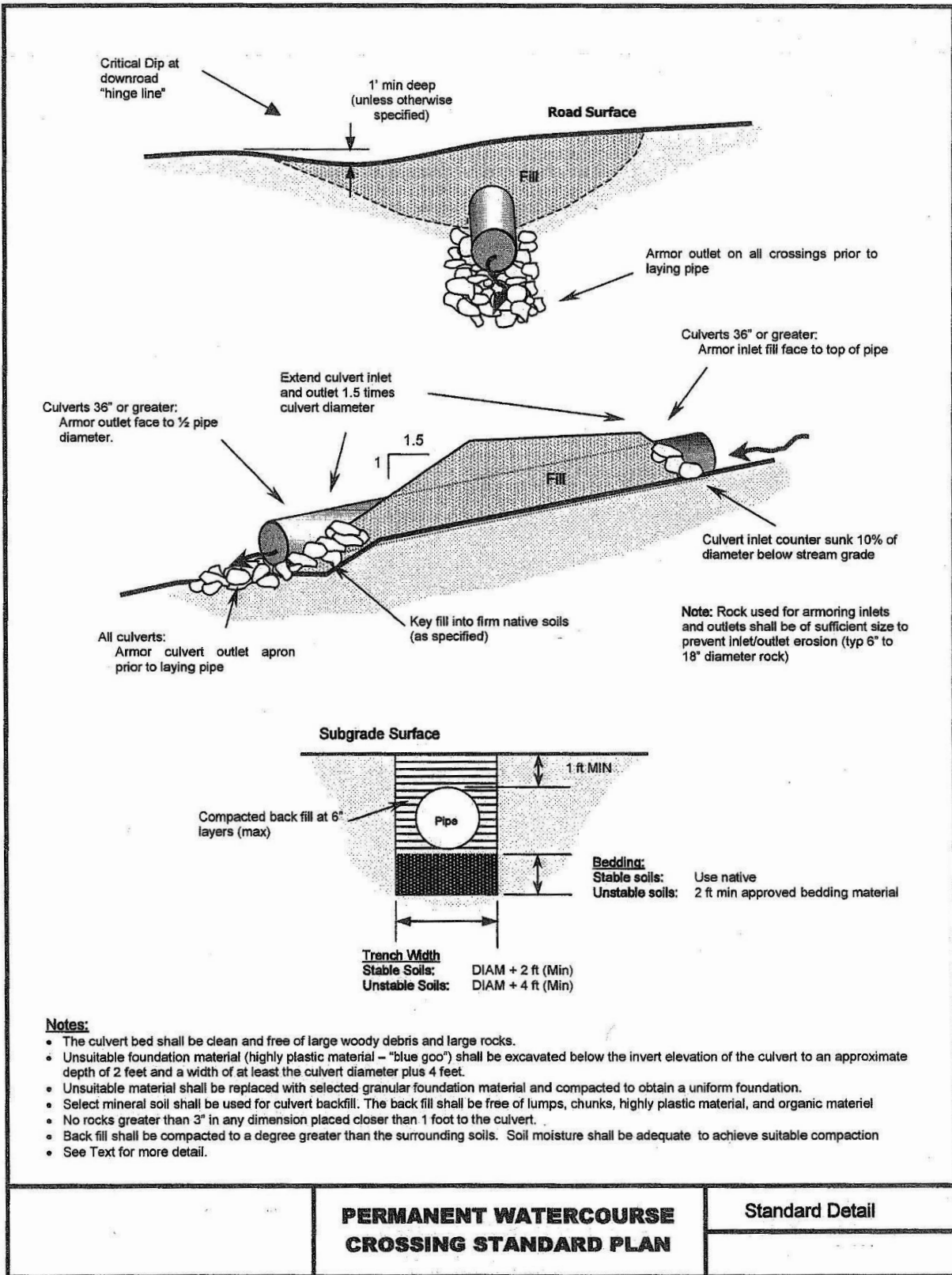


ROLLING DIP DIMENSIONS					
		MAIN LINE ROAD		SECONDARY ROAD	
Road Grade (%)	Depth of trough Depth below downslope crest (ft)	A: Reverse grade (Distance from trough to downroad crest (ft))	B: Upslope Approach (Distance from up-road start of rolling dip to trough (ft))	A: Reverse grade (Distance from trough to downroad crest (ft))	B: Upslope Approach (Distance from up-road start of rolling dip to trough (ft))
<6	1.0	20	65	15	55
6 - 8	1.0	20	75	15	65

NOTES:

- A rolling dip is a broad long permanent dip constructed into native soils. It is intended to drain the road while not significantly impeding traffic.
- The cross drain road (outslope) at 3% to 5%
- Dip outlets should be located to drain into areas with adequate sediment filter quality and non-erodible material such as rock, slash, brush, etc. Where specified, the bottom of the outfall of the dip will be surface rocked.
- Where natural slopes exceed 50%, fill shall not be pushed over the dip outlet. A backhoe or excavator may be required to pull back fill at outlet of existing dips.

ROLLING DIP STANDARD PLAN	Standard Detail
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7. References

California Forest Practice rules, 2017; Title 14, California Code of Regulations, Chapters 4, 4.5, and 10

California Natural Diversity Database November 6, 2017 – <http://bios.dfg.ca.gov>

Parcel Quest Data – County Assessor information; <http://pqweb.parcelquest.com>

Land Owner of Record: _____

Signature: _____

Date: _____

Registered Professional Forester: Mike Atkins RPF #2613 _____

Signature: _____

Date: _____