

COUNTY OF HUMBOLDT
ENCROACHMENT PERMIT APPLICATION



Attach Check and MAIL TO:
**PUBLIC WORKS DEPT.
LAND USE DIVISION
3033 H STREET, ROOM 17
EUREKA, CA 95501**

PERMISSION IS REQUESTED TO ENCROACH ON THE COUNTY
RIGHT OF WAY AS FOLLOWS: (COMPLETE ALL ITEMS, N/A IF NOT APPLICABLE)
SEE ATTACHED INSTRUCTIONS.

I Where? When?

For assistance see attached information and/or - Phone (707) 445-7205

(1.) County Road Name Fickle Hill Rd	(2.) ADDRESS OR POSTMILE east of 1736 Fickle Hill Rd Vacant
(3.) Nearest Cross Street Boynton Praire Rd	(4.) PORTION OF RIGHT OF WAY <input checked="" type="checkbox"/> Edge of Road <input checked="" type="checkbox"/> Shoulder <input type="checkbox"/>
(5.) TYPE OF EXISTING COUNTY ROAD <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Gravel <input type="checkbox"/> Other	(6.) WORK TO BE PERFORMED BY <input checked="" type="checkbox"/> OWN FORCES <input type="checkbox"/> CONTRACTOR
(7.) Proposed Start Date 6-30-19	(8.) Estimated Completion Date 12-15-19

RECEIVED

II Type of work – Review of application may be delayed until required detailed plans are submitted. –

(9) A plot plan showing property lines, easements, access location(s), site specific details existing and proposed slopes is required.

☐ NEW DRIVEWAY / PRIVATE ROAD

Note: It is County policy to require paved entrances to driveways and private roads onto paved County roads

☒ Request County Review of CULVERT / PIPE (18" MIN DIA) Material Type **ABS** Location *see map

☐ INSTALL / REPAIR UTILITY SERVICES Type _____ Approx. length/depth _____

☐ REPAIR / RESURFACE EXISTING _____ – surface type _____

☒ OTHER DESCRIBE: Arcata Ridge Trail crossing and service vehicle pullout to provide for (1) emergency vehicle or service maintenance vehicle. City of Arcata owns property north and south of proposed crossing that is part of the Arcata Community Forest.

(10) Description and purpose of WORK or ACTIVITY:

The work involves installation of a hiking trail approach on north and south side of County road
Gravel surface trail tread within r/w, signage, vegetation removal (for visibility); installation of an 18" drain pipe; split rail fence on prop. line; gate on prop. line; gravel pullout for maint. and emergency use only. (no public parking). Striping can be done by City of County forces. Traffic calming signage requested by City.

☒ Check here if sketches / plans are attached showing the proposed work. (also provide brief description above)

THE UNDERSIGNED AGREES AND UNDERSTANDS THAT: (1) A PERMIT IS DISCRETIONARY AND CAN BE DENIED; (2) A BOND MAY BE REQUIRED FOR NON-PAYMENT OF PRIOR OR PRESENT PERMIT FEES; (3) THE WORK OR ACTIVITY MUST BE DONE IN ACCORDANCE WITH COUNTY RULES AND REGULATIONS SUBJECT TO INSPECTION AND APPROVAL; (4) THE APPLICATION FEE IS NON-REFUNDABLE; (5) IF THE APPLICANT IS APPLYING FOR AN ENCROACHMENT PERMIT IN CONJUNCTION WITH A BUILDING PERMIT, THE REQUIREMENTS OF THE ENCROACHMENT PERMIT MUST BE COMPLETED PRIOR TO OCCUPANCY OF ANY STRUCTURE OR FINAL INSPECTION BY THE BUILDING DEPARTMENT.

III Provide contact information, Authorized signature, Date

(11) PROPERTY OWNERS NAME Clty of Arcata	(12) ASSESSOR'S PARCEL NUMBER(S) 500-021-032;500-022-004
(13) ORGANIZATION OR APPLICANTS NAME City of Arcata -Environmental Services	(14) PHONE <input type="checkbox"/> HOME <input checked="" type="checkbox"/> WORK <input checked="" type="checkbox"/> CELL w 707 822-8184 cell 707 845-5804
(15) ARCHITECT, ENGINEER OR CONTRACTOR Netra Khatri Traffic control plan & crossing detail. M. Andre design features	(16) ARCHITECT, ENGINEER OR CONTRACTOR PHONE
(17) APPLICANT MAILING ADDRESS (INCLUDE CITY AND ZIP CODE) 736 F Street Arcata, CA. 95521	
EMAIL mandre@cityofarcata.org	
(18) AUTHORIZED SIGNATURE <i>Mark Andre</i>	(19) PRINT OR TYPE NAME Mark Andre
(20) TITLE Environmental Services Director	(21) DATE 5-1-19

IV Submit Fee Permit fee – See Current County fee schedule. – Contact Public Works for project deposits.

COUNTY USE ONLY (22) NON REFUNDABLE FEE OF \$ _____ REQUIRED AT TIME OF APPLICATION	RECEIPT # _____
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INSTRUCTIONS FOR COMPLETING THE COUNTY ENCROACHMENT PERMIT APPLICATION

Please type or print. Enter N/A where not applicable.

Items below are to assist with providing the information required.

Incomplete application may delay review process.

MAILTO:
HUMBOLDT COUNTY
PUBLIC WORKS DEPARTMENT
LAND USE DIVISION
3033 H STREET, ROOM 17
EUREKA, CA 95501
OFFICE (707)445-7205
FAX (707)445-7388

- 1-2:** County road name and address or postmile (if known) where work is located.
- 3:** Distance and direction from nearest cross street or road to the work site.
- 4:** Portion of County right of way where work will occur (paved road, shoulder, back of curb, slope, etc.).
- 5:** Existing County road surface type (concrete, asphalt, gravel, etc.).
- 6:** Indicate whether your own forces or a contractor will perform the work.
- 7-8:** Estimated start and completion dates for the permit work.
- 9:** **Provide plot plan with required details** — (property lines, easements, access location(s), site specific details, existing and proposed slopes)
Indicate whether the use of an existing driveway or private road is proposed.
If the construction of a **new** driveway or private road is proposed, indicate all that apply. **Note:** County policy requires paved entrances to driveways on paved County roads, urban development may also require curb and gutter with ADA sidewalks and ADA driveway approaches.
If the repair of an **existing** driveway or private road is proposed, indicate all that apply. **Note:** County policy requires paved entrances to driveways on paved County roads.
If excavation is proposed, provide depth, width and length.
If a culvert, pipe or conduit installation is proposed, provide type diameter and length.
All other activities proposed within a County right of way, indicate all that apply.
- 10:** **Describe the work or activity to be done within the County right of way. If applicable, attach specifications, calculations, maps, site plan, etc. Incomplete information may delay the review process.**
- 11:** Full name of record owner for subject property.
- 12:** Assessor's parcel number. May be obtained from the County Assessor's office or on property tax bill.
- 13:** Full name of entity, organization or individual applying for permit.
- 14:** Current daytime phone number of entity, organization or individual applying for permit.
- 15:** Full name of organization or individual authorized to perform work.
- 16:** Current daytime phone number of person(s) listed in item 18.
- 17:** County will use this address for all correspondence and permit issuance.
- 18.-19:** Signature and typed or printed name of applicant or authorized agent.
- 20:** Title of applicant or authorized agency signing the application.
- 21:** Date the application was signed.
- 22:** Required fee to be submitted at time of application.

**Where is the
work to be done?
Describe location
so we can find it.**

**What do you
propose to do?**

**Who is applying?
Who is responsible?
Provide contact
information.
Authorized signature.
Submit Fee.**



Project Location

Arcata Ridge Trail - Fickle Hill South Segment

USGS 7.5 Minute Quadrangle: Arcata South
Section 34, T.6.N., R.1.E. of H.B. & M



Arcata Ridge Trail Fickle Rd- South Segment -- 1,600 linear feet

Summary for Encroachment Permit- City of Arcata Environmental Services Department

The City of Arcata (City) proposes to construct approximately 1,600 linear feet of recreational trails, known as the Arcata Ridge Trail Project Phase III – Fickle Hill Segment (Project). The Project is located within the City of Arcata's Arcata Community Forest. The trail is proposed to cross Fickle Hill Road, approximately 1.5 miles east of the intersection of Fickle Hill Road and Park Avenue. It is 2- miles from the nearest Highway 101 off ramp. The trail continues to the north for approximately 1,600 linear feet.

The City requests a two phase encroachment permit as follows:

Phase I:

For the encroachment activities on the north side of Fickle Hill Road that lead to City owned Community Forest lands that include:

- A split rail fence to replace a barb wire fence along the City property line.
- A ranch type gate along the fence line with a chicane opening adjacent to the gate to allow passage for non-motorized trail use.
- A rocked or (paved if directed by County) short driveway segment (50'-60' that retains the drainage ditch.
- A bollard to prevent parking on the short driveway segment.

Funding support for the easement/fee necessary for this segment of trail included approval by the Humboldt County Board of Supervisors at meeting of April 6, 2010; HR 2389 Recreational and Conservation Easement Support Program. From approved project documents:

Note: The north of road improvements are only to facilitate a location for City public safety vehicles such as fire and Police and periodic light duty City maintenance vehicles to park on the north side of the road on city lands outside of the road r/w. It is expected that this parking "pocket" will be used on a very infrequent basis perhaps once per month. The locked gate will assure that no public use of the parking pocket is allowed and no parking signs will be affixed to the gate facing south.

Phase 2:

For the crossing of Fickle Hill Road with road shoulder and slope encroachments to facilitate installation of the unpaved hiking trail on the **south side of Fickle Hill Road** leading downhill to city owned Community Forest lands. Important design elements of this phase include safe crossing location for traffic line of sight and water source protection for a domestic water source located downslope and recorded on the city property deed. At public scoping meetings, neighborhood residents have stated that they are interested in speed limit reductions or other traffic calming measures along the affect reach of Fickle Hill Road.

Project summary

The project involves construction, operation, and maintenance of an unpaved all-season recreational trail. The trail will be a non-motorized multi-use trail and will include hiking, horseback riding and mountain biking. This trail segment will provide a public access link connection from the Arcata Community Forest lands to the north (Arcata Community Forest Tract) of the County road to Community Forest lands located on the south side of Fickle Hill Road (Sunnybrae Unit). The lands are all part of the Arcata City limits. The trail segment is a connectivity linkage of the larger 5-mile long trail concept known as the Arcata Ridge Trail. The ACF property at this location is owned by the City and managed by the City's Environmental Services Department. A volunteer Forest Management Committee advises staff and the City Council on forest policy matters. The Committee consists of seven members with backgrounds and expertise in botany, forest ecology, wildlife, fisheries, geology, recreation and forestry. All committee meetings are public meetings whereby the public is encouraged to attend and participate. City Project ID is CIP # 87-0002 *Arcata Ridge Trail Development*.

1-2 County Road Name and address:

Fickle Hill Road just east of 1736 Fickle Hill

3. Distance from nearest cross street:

1.5 miles from Fickle Hill Rd & Park Ave (east of Park Ave).

4. Portion of county right of way where work will take place:

Shoulder, slope and paved road.

5. Existing county road surface type:

Asphalt

6. Indicate whether your own forces or contractor will perform the work:

City forces will perform the work.

7-8. estimated start and completion dates for the permit:

June 30, 2019 through December 15, 2019

9. Provide plot plan

- See attached.

10. Describe work to be completed in County r/w:

- Striping and sign installation per county standards and direction unless County wishes to do that portion of work.
- Trial trail construction with hand crews in portion of r/w where the trail meets the county road on either side.
- Split rail type chicane to slow recreational users prior to crossing. Unclear where the r/w is so this may be on the city lands and not county r/w

South side only:

- Roadside brushing where the trail intersects with county road on the south side of the county road (both for visibility and to prepare for trail tread work. The north side does not require and vegetation work.

North side only

- Rocked dip or 18" ABS pipe with at entrance to emergency service and maintained parking pocket on city lands (driveway).
- Completion of split rail fence on property and ranch gate line that replaces previous wire fence that was removed.

11. Name of property owner:

City of Arcata

12. Assessor parcel number(s):

500-021-032; 500-022-004

13. Full name of entity applying for permit:

City of Arcata, Environmental Services Department

14. Daytime phone number:

707 822-8184

15. Full name of organization authorized to perform work:

City of Arcata Environmental Services Dept

16. Daytime phone number of individual I listed on item #18:

707 822-8184 desk 707 845-5804 cell

17. County will use this address for correspondence:

City of Arcata-Environmental Services Dept

736 F Street

Arcata, CA. 95521

18-19, 20; 21; 22. See page #1 of application.

Arcata Ridge Trail Fickle Rd- South Segment -- 1,600 linear feet-Encroachment Permit Application

The City of Arcata (City) proposes to construct approximately 1,600 linear feet of recreational trails, known as the Arcata Ridge–Fickle Hill Segment (Project). The Project is located within the City of Arcata’s Arcata Community Forest. The trail is proposed to cross Fickle Hill Road, approximately 1.5 miles east of the intersection of Fickle Hill Road and Park Avenue. It is 2- miles from the nearest Highway 101 off ramp. The trail continues to the north for approximately 1,600 linear feet. The land to the south and north of the project is owned by the City of Arcata. Fickle Hill Road is a County road.

Project summary

The project involves construction, operation, and maintenance of an unpaved recreational trail that is located in a second growth redwood forest. The trail will be non-motorized multi-use and will include hiking, horseback riding and mountain biking. This trail segment will provide a public access link connection from the Arcata Community Forest lands to the north (Arcata Community Forest Tract) of the County road to Community Forest lands located on the south side of Fickle Hill Road (Sunnybrae Unit). The lands are all part of the Arcata City limits. The trail segment is part of the larger 5-mile long trail concept known as the Arcata Ridge Trail. The ACF property at this location is owned by the City and managed by the City’s Environmental Services Department. A volunteer Forest Management Committee advises staff and the City Council on forest policy matters. The Committee consists of seven members with backgrounds and expertise in botany, forest ecology, wildlife, fisheries, geology, recreation and forestry. All committee meetings are public meetings whereby the public is encouraged to attend and participate.



The project requires an encroachment permit from the County of Humboldt for the work within the road and road right of way. The County has been a cooperator on the Ridge Trail project having provided funding support and some on site analysis for locating an appropriate crossing. The project is consistent with the Arcata 2010 Bike And Pedestrian Master Plan and City Capital Improvement Project # **87-0002 Arcata Ridge Trail Development**. As with many forest trails in the Arcata Community Forest, they are subject to periodic disturbance during timber harvest activities. That will be the case with this trail segment with the exception of the improvements within the County road right of way and within the vicinity of known domestic water sources. No parking will be allowed on the Fickle Hill Road should ½ mile west and ½ mile east of the proposed road crossing location.

The trail will be unpaved 2-3' wide trail constructed to standards contained in the USFS Trail Manual as well as the IMBA Trail Solutions Guide. Generally the trail follows existing logging skid trails and previously disturbed areas.

For this trail segment, protecting the existing domestic water well and facilitating a safe crossing of Fickle Hill Road are of the highest priority.

The segment has been designed and located as far as possible from known domestic water sources (and appurtenance structures) that are described on property deeds, mapped and located in the field with GPS. Six parcels are currently using a water source that originates in the project vicinity. Several other parcels (including the City's property) also have rights to this water source although they are not currently using this well. A part of this project, much of the western boundary of the ACF at this location will be fenced to better secure the current water system. Visual screening native trees will also be planted along the private property lines east of west of the trail alignment.

Where a short stretch of trail that is co-located on the Fickle Hill road shoulder (next to the asphalt), existing road runoff and trail surface runoff will be directed east and away from the sub-watershed uphill from the domestic water well. A fence on a portion of the downhill side of the new trail will be installed to prevent shortcutting towards the domestic water well.

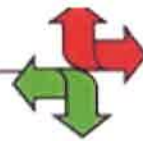
Traffic safety also dictates the crossing location to achieve maximum line of sight visibility for trail users when crossing the roadway. The County will install devices such as signage, striping etc. The City plans to locate one of its radar speed limits signs periodically at the location provided the County approves this measure. Numerous

On- trail warning signs will be installed warning users when there are nearing the trail crossing and fencing chicanes will be installed that will require mountain biked riders and equestrians to dismount.

Information sources used and consulted such biological surveys, legal descriptions of water sources, soil maps, information from recent Timber Harvest Plans, air photos etc. is located at the Arcata Environmental Services Dept 736 F Street Arcata, CA. 95521.



Example of proposed trail. This segment is part of Arcata Ruidge Trail System south of the project area.



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2009 Edition Part 6 Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

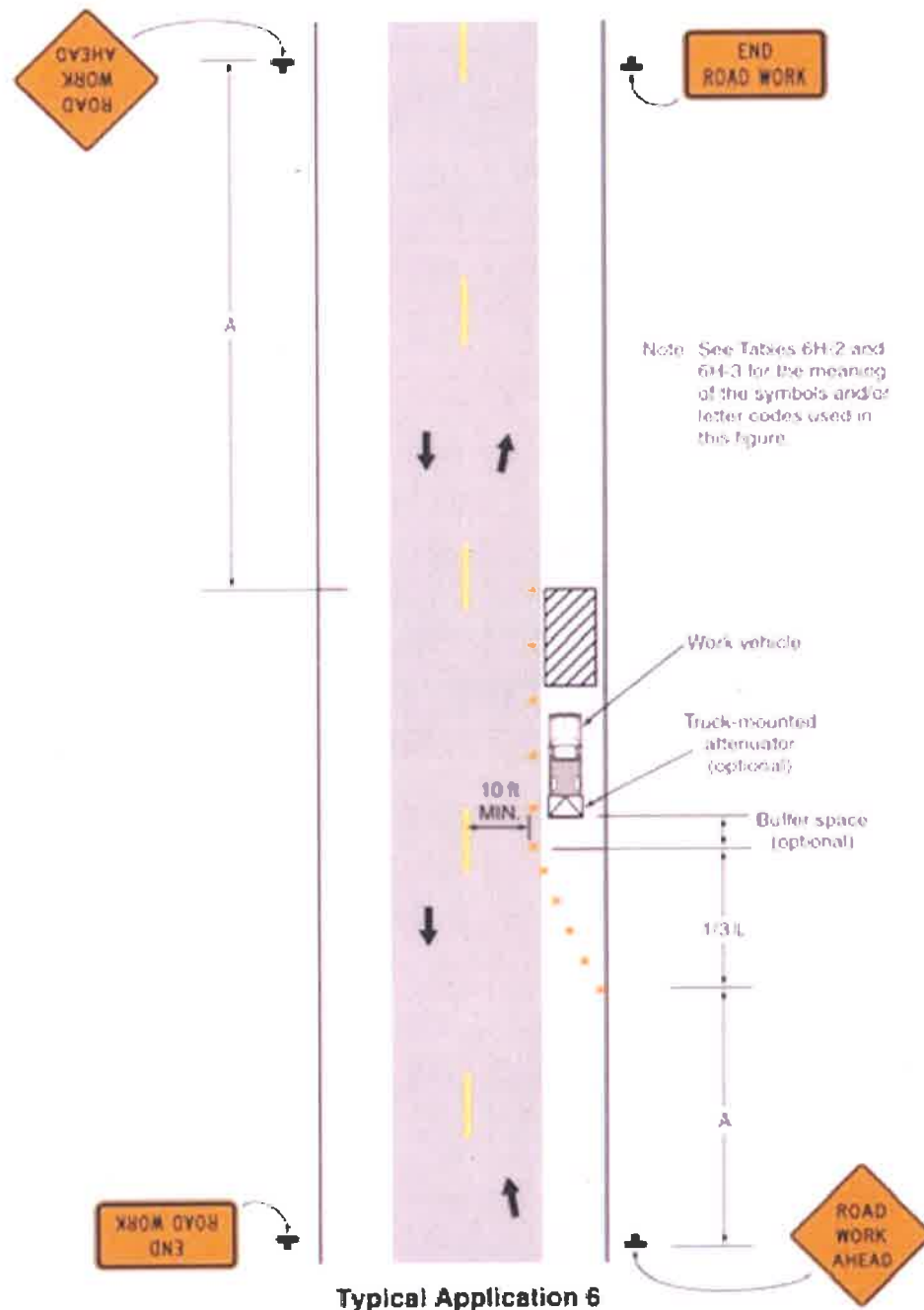


Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

This figure illustrates an example of shoulder work with minor encroachment. A legend under the figure states that this is Typical Application 6. A note states "See [Tables 6H-2](#) and [6H-3](#) for the meaning of the symbols and/or letter codes used in this figure."

Notes for Figure 6H-6—Typical Application 6 Shoulder Work with Minor Encroachment

Guidance:

1. All lanes should be a minimum of 10 feet in width as measured to the near face of the channelizing devices.
2. The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.

Option:

3. For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 9 feet may be used.
4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely-spaced channelizing devices, provided that the minimum lane width of 10 feet is maintained.
5. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
6. Temporary traffic barriers may be used along the work space.
7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
8. A truck-mounted attenuator may be used on the shadow vehicle.
9. For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
10. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

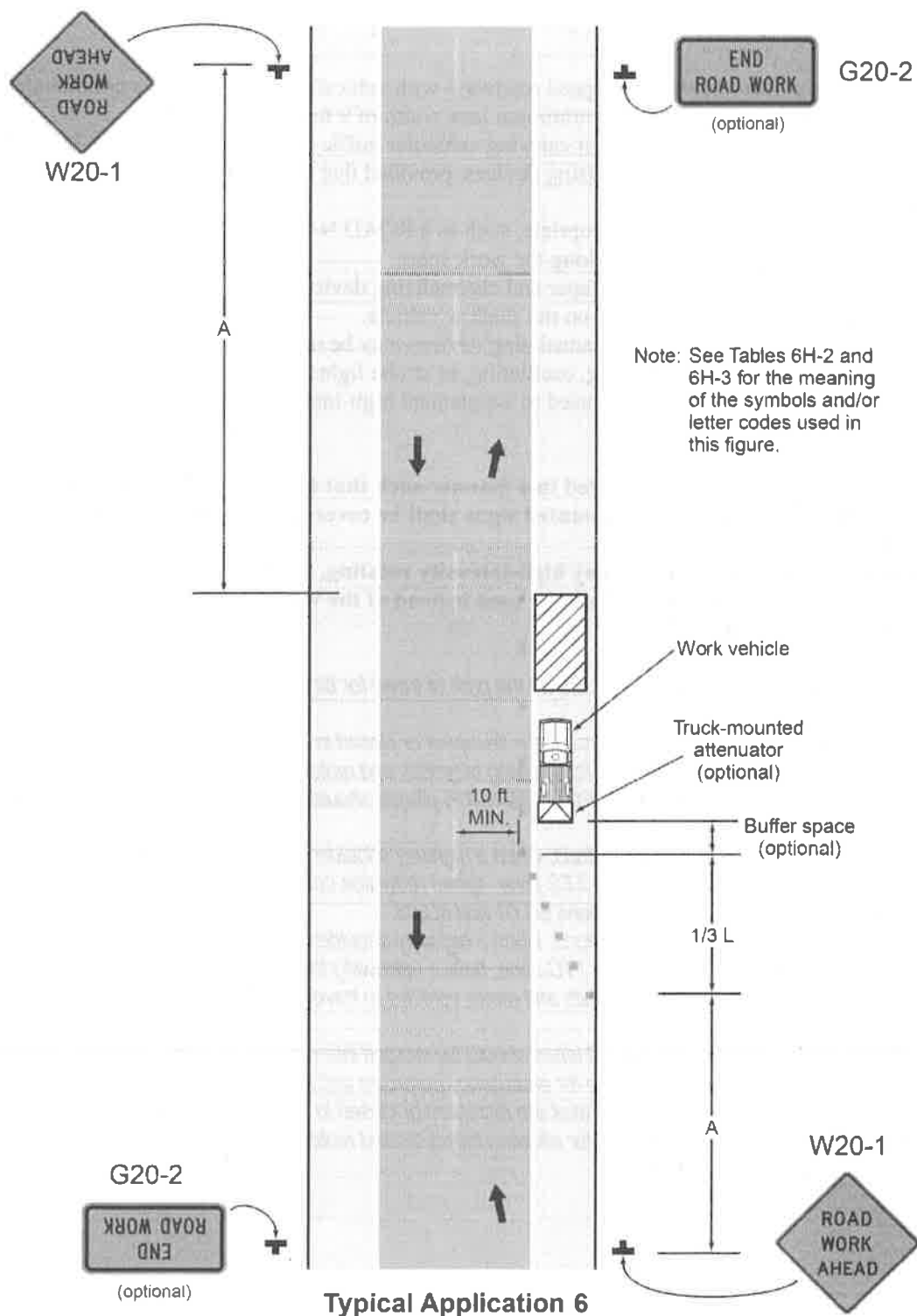
Standard:

11. **Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.**
12. **Shadow and work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights.**
13. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Guidance:

14. All advance warning signs should be placed so that the path of travel for bicycles is not blocked, while maintaining visibility for road users.
15. When existing accommodations for bicycle travel are disrupted or closed in a long-term duration project (see Section 6G.02) and the roadway width is inadequate for allowing bicyclists and motor vehicles to travel side by side, the Bicycle Warning (W11-1) sign and the SHARE THE ROAD (W16-1P) plaque should be used to advise motorists of the presence of bicyclists in the travel way lanes.
16. Except for short durations and mobile operations, when a highway shoulder is occupied and bicyclists would be sharing a lane with vehicular traffic, as a result of the TTC zone, speed reduction countermeasures should be used to reduce traffic speeds in the TTC zone. Refer to Sections 6C.01 and 6D.03.
17. Except for short durations and mobile operations, when a highway shoulder is occupied and bicyclists would be sharing a lane with vehicular traffic, as a result of the TTC zone, before narrowing the outside lane other measures such as widening the outside shoulder to allow bicyclists and motor vehicles to travel side by side through the TTC zone should be considered.
18. If traffic volumes make it feasible, the two left lanes should be merged into one lane to avoid using the shoulder as a traveled way lane and allowing continued use for emergency purposes and bicycle travel.
19. When existing accommodations for bicycle travel are disrupted or closed in a long-term duration project (see Section 6G.02) and the roadway width is inadequate for allowing bicyclists and motor vehicles to travel side by side, a separate path should be considered for bicyclists.

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



From Chris Witworth
Hum co. pub



Trail Crossing
Westerly Approach



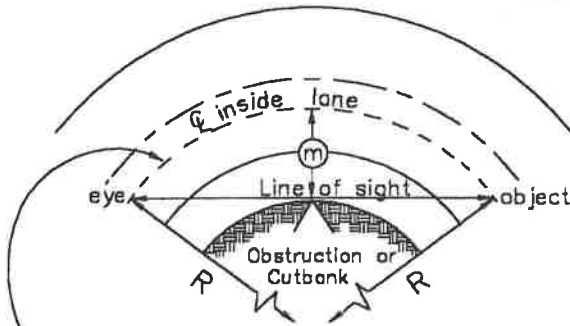
Trail Crossing
Easterly Approach



Trail Crossing Pan
Trees Needing Removal

January, 1987

Figure 201.6
Stopping Sight Distance on
Horizontal Curves



- Sight distance "S" measured along this line
- Height of eye - 3.50 feet
- Height of object - 0.50 feet
- Line of sight is 2.0 feet above Q inside lane at point of obstruction

DESIGN SPEED MPH	SIGHT DISTANCE FEET
30	200
40	300
50	430
60	580
65	660
70	750
75	840
80	930

DESIGN SPEED -- MPH

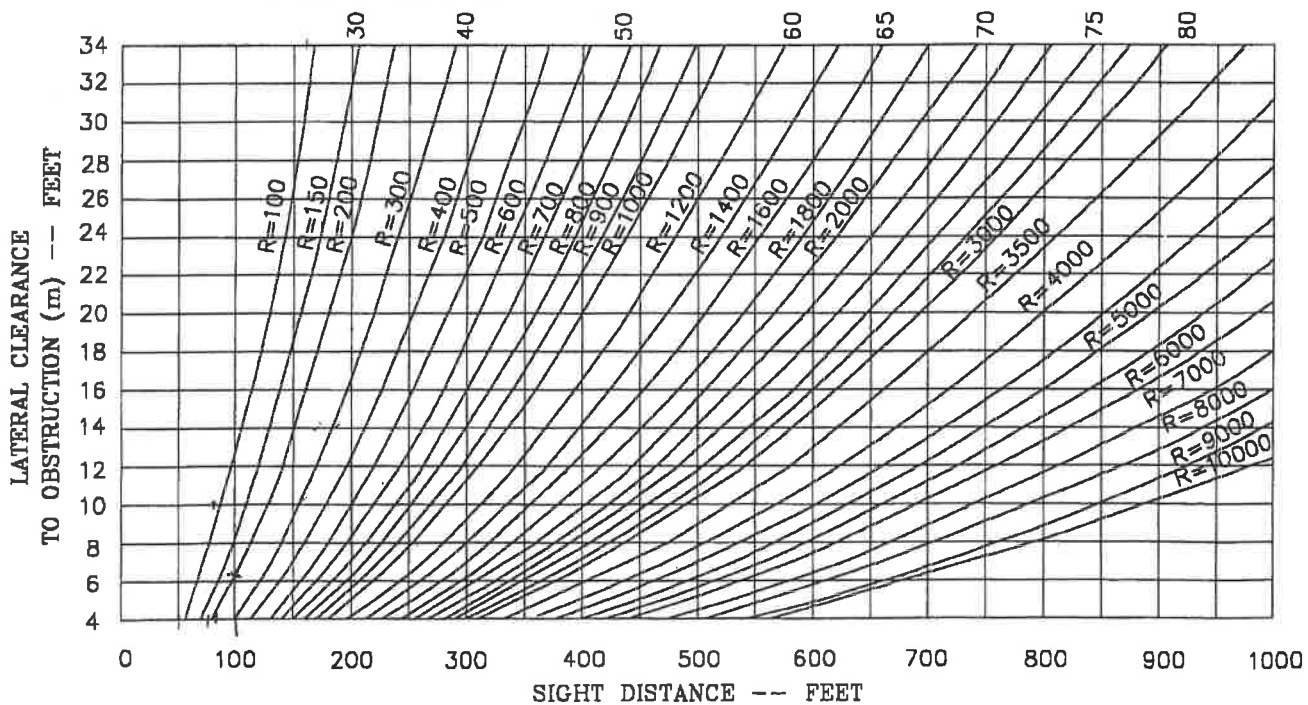
S=SIGHT DISTANCE IN FEET
 R=RADIUS OF Q INSIDE LANE IN FEET
 m=DISTANCE FROM Q INSIDE LANE IN FEET
 V=DESIGN SPEED FOR "S" IN M.P.H.

Angle is expressed in degrees.

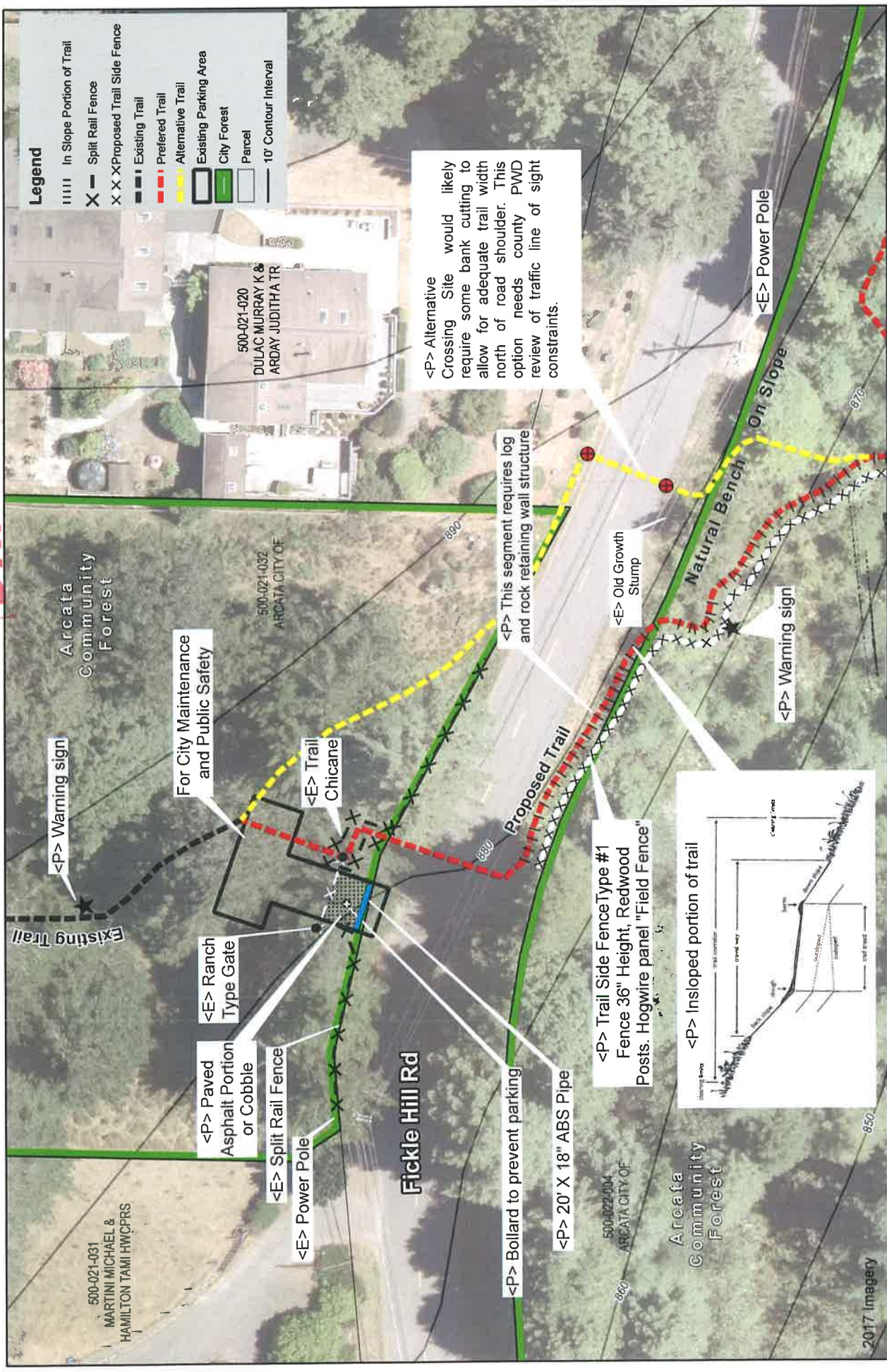
$$m = R \left[1 - \cos \left(\frac{28.65S}{R} \right) \right]$$

$$S = \frac{R}{28.65} \left[\cos^{-1} \left(\frac{R-m}{R} \right) \right]$$

- Formula applies only when "S" is equal to use less than length of curve.
- For sustained downgrades, see index 201.3.



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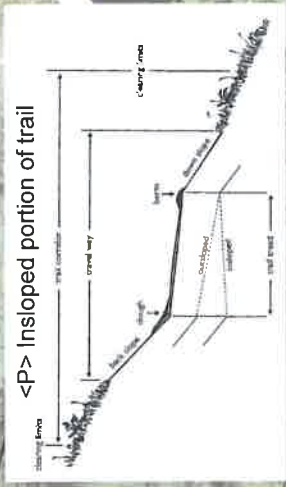
Legend

- ||||| In Slope Portion of Trail
- X X Split Rail Fence
- X X X Proposed Trail Side Fence
- Existing Trail
- Preferred Trail
- Alternative Trail
- Existing Parking Area
- City Forest
- Parcel
- 10' Contour Interval

<P> Alternative Crossing Site would likely require some bank cutting to allow for adequate trail width north of road shoulder. This option needs county PWD review of traffic line of sight constraints.

<P> This segment requires log and rock retaining wall structure

<P> Trail Side Fence Type #1
Fence 36" Height, Redwood Posts, Hogwire panel "Field Fence"



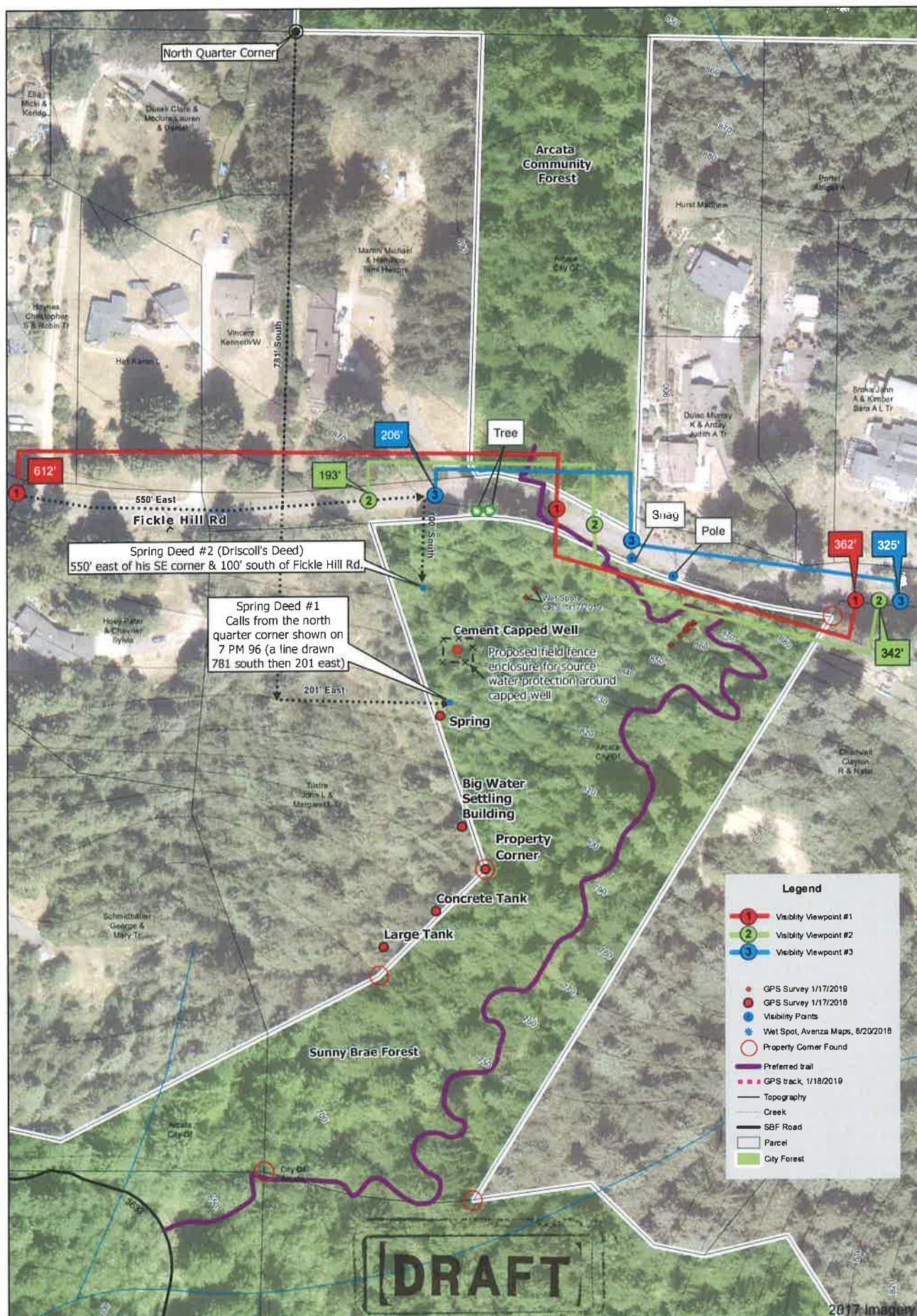
REVISIONS		DESIGNED BY: M ANDRE		CITY OF ARCATA ENVIRONMENTAL SERVICES		Fickle Hill Road Crossing Detail		VERIFICATION SCALES		SHEET	
NO	ITEM	DATE	DRAWN BY: B KANG								
			CHECKED BY: M ANDRE								
			EXPIRES:								
			FILE DATE:								
			FILE:								

DRAFT

1744



1744



REVISIONS			DESIGNED BY:
NO.	ITEM	DATE	DRAWN BY:
			CHECKED BY:
			EXPIRES:
			FILE DATE:
			DATE: 5/20/2019
			FILE: VisibilityPoints_5-2019_11x17



CITY OF ARCATA
ENVIRONMENTAL SERVICES

Arcata Ridge Trail
Recon level Line
Sight Visibility Analysis



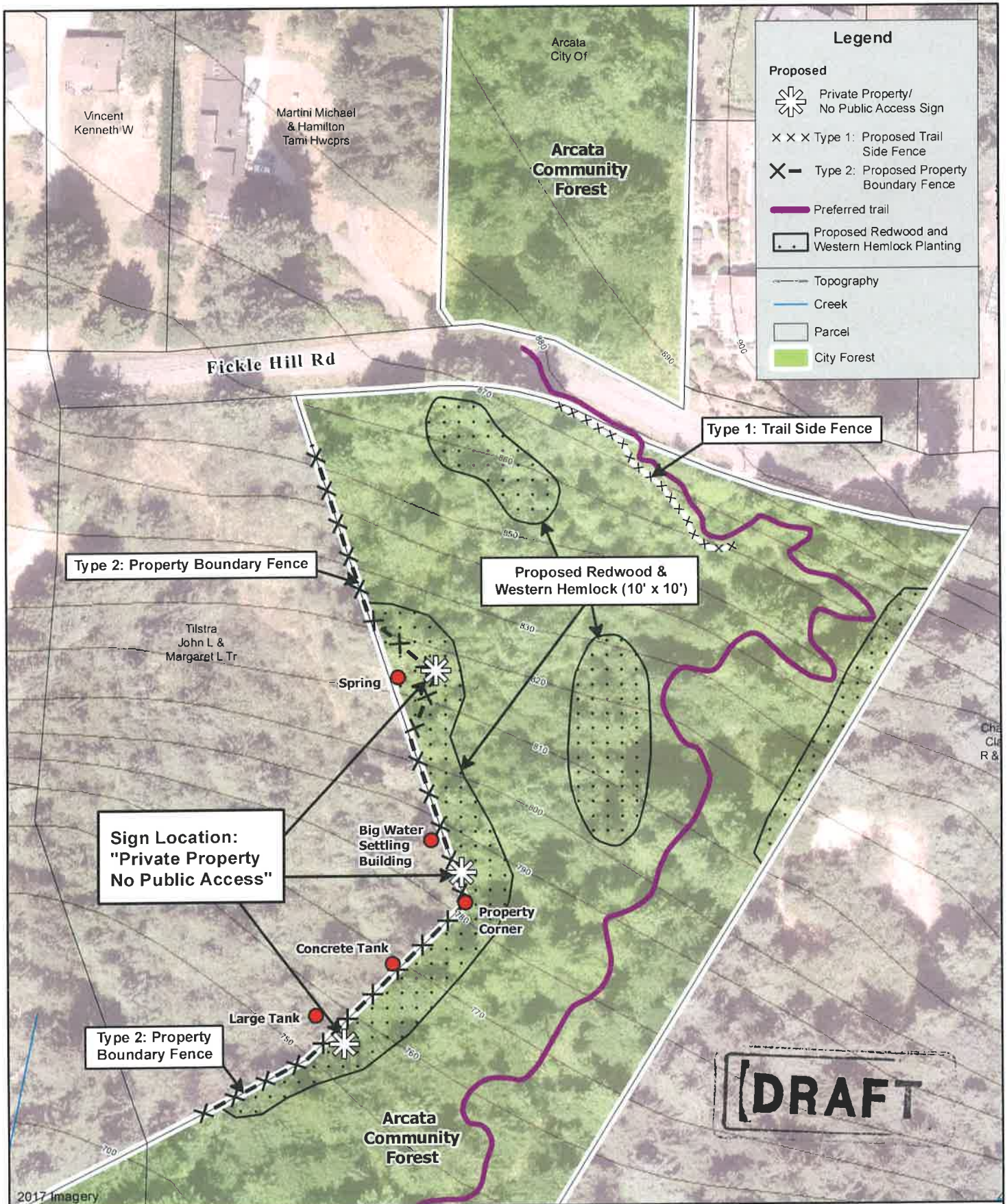
VERIFY SCALES
BEFORE USE. SUCH AS ORIGINAL, DRAWING

IF NOT ONE, BOTH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

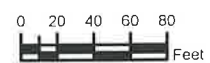
SCALE: 1 INCH = 100 FEET
0 50 100
Feet

SHEET
1 of 1

[DRAFT]



Fencing Plan & Planting Plan



(DRAFT)

Fickle Hill Rd

Wet spot, Acc 16'. ESRI collector Various old blue flagging found. Wooden stake with blue flag also found plus additional 6ft orange pole flag found above site.

Wet spot goes subsurface here, ~ 38' from first wet spot exposure, ~ 38' surface flow to this point. H2O trickles into 2' deep hole on downhill edge of skid crossing. White flag hung @ site. Acc=16'

Cement capped well. Acc 16ft. Surface water (boggy area with skunk cabbage) exposed approx 5' above well case

Final exposed surface flow and black 2" water pipe leading to spring shed. Approx 20' upslope closet spring shed. Acc 16'

Small spring shed (filler/pump room?). Acc 16' esri collector

Surface flow increases. Acc 16'. Larger wooden water building visible approx 60' downslope. Water also goes subsurface from here for approx 28' before re-emerging ~20' above building

Larger wooden water building. Acc 16' in field ESRI collector

Big Water Settling Building

Concrete Tank

Large Tank

Legend

- GPS Point
- ||||| In Slope Portion of Trail
- Split Rail Fence
- X X X Proposed Trail Side Fence
- Preferred Route
- City Forest
- Parcel
- 10' Contour Interval

REVISIONS

NO	ITEM	DATE

DESIGNED BY:

DRAWN BY:

CHECKED BY:

EXPIRES:

FILE DATE:

FILE:



CITY OF ARCATA
ENVIRONMENTAL SERVICES

DATE: 5/20/2019

FILE: Collector_Notes_5-20-2019



SCALE: 1 INCH = 85 FEET



VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SHEET

1 OF 1

Reconnaissance Map of Domestic Water System using ESRI collector application



17170

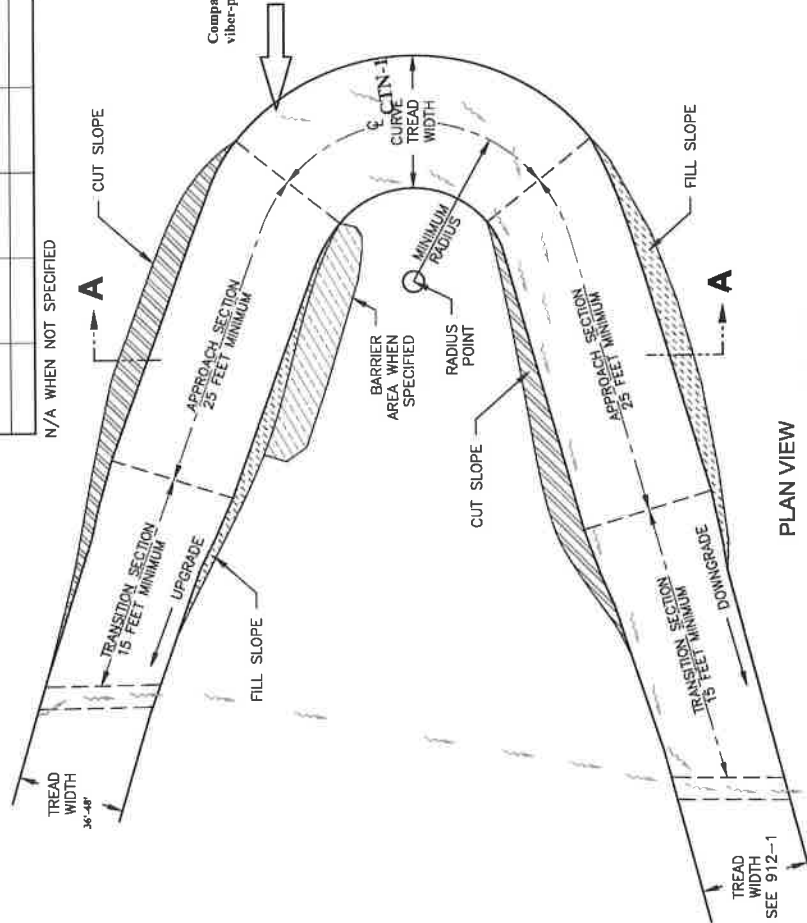
CLIMBING TURN SECTIONS

TYPICAL ID	MINIMUM RADIUS	CURVE TREAD WIDTH	BARRIER TYPE	COMMENTS
CTN-1	7 feet	48"	na	final turn to NW near Fickle Hill Road south side of Fickle Hill Road

N/A WHEN NOT SPECIFIED

Trail width 36-48"
Turning radius 7 feet

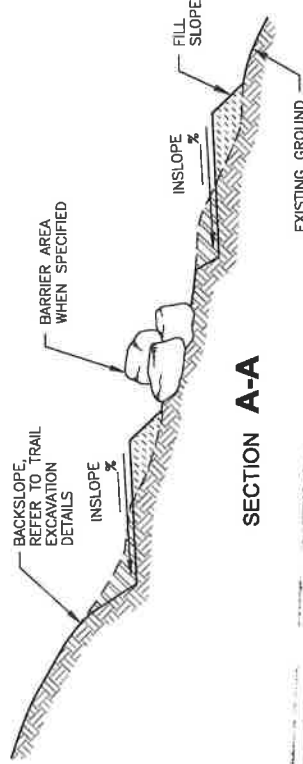
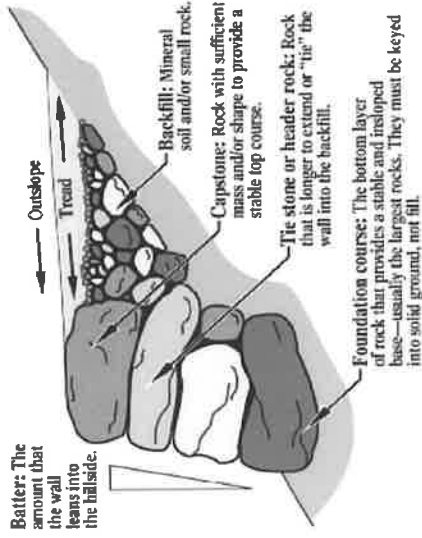
Compacted surfaces of recycle base rolled or vibrated.



PLAN VIEW

RADIUS POINT AND CENTER LINE OF CLIMBING TURN WILL STAKED ON THE GROUND.

Rock Retaining Wall Terminology



SECTION A-A



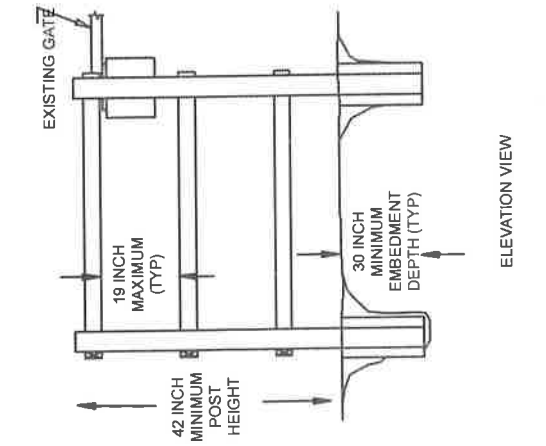
NOTE:
CONSTRUCT CONSTANT GRADE THROUGH BOTH APPROACH SECTIONS.

11-27-18

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE STANDARD TRAIL PLAN	PROJECT NAME & LOCATION Arcata Ridge Trail_South of Fickle Hill Crossing 2018	DRAWING NAME CLIMBING TURN	REVISION DATE 11-27-18	DRAWING NO. STD 914-01
		SECTION 914 - CLIMBING TURN	TYPICAL ID CTN	SHEET 1 OF 6

NO SCALE

ACCESSIBLE GATES CHICANES



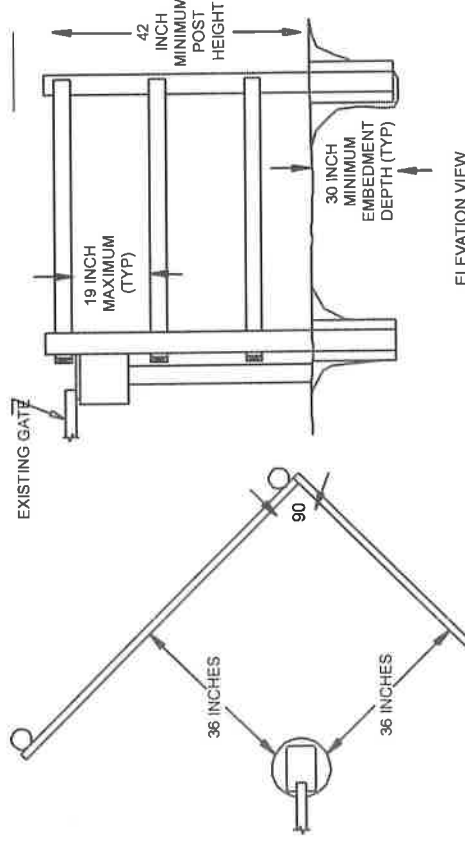
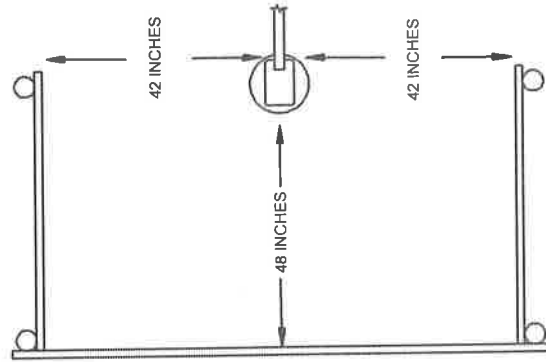
A "U" CHICANE SECTION

FENCE MATERIAL TYPE

TYPE	MATERIAL	COMMENTS
M1	SAWN TIMBER	REDWOOD LUMBER
M2	LOG	
M3	METAL PIPE	
M4		

NOTES:

1. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
2. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.



B "V" CHICANE SECTION

DRAFT

PRESERVATIVE TREATMENT TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

TREATMENT TYPE

UC3B = ABOVE GROUND
UC4A = GROUND CONTACT
UC4B = GROUND CONTACT - HEAVY DUTY

DRAWING NO. **STD_942-50-01**

REVISION DATE
01/02/2019

TYPICAL ID
CHI

NO SCALE

ACCESSIBLE GATES CHICANES

SECTION
942 - GATES

PROJECT NAME & LOCATION
ARCATA RIDGE TRAIL
ARCATA COMMUNITY FOREST

JAN 2019

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

STANDARD TRAIL PLAN

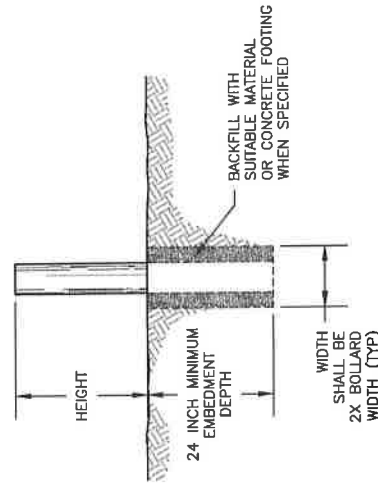


TEARD
DRY

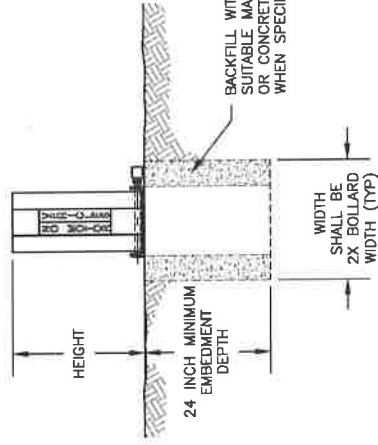
BOLLARDS

BOLLARD				
TYPICAL ID	SECTION TYPE	TYPE	SIZE	HEIGHT
BLD-1		BD	8"	48"

N/A WHEN NOT APPLICABLE

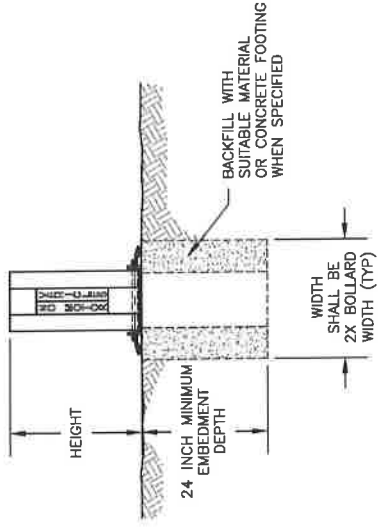


(A) PERMANENT INSTALLATION SECTION



(B) REMOVABLE INSTALLATION SECTION

SINGLE LOCK SYSTEM SHOWN



(C) DROP-DOWN INSTALLATION SECTION

DUAL LOCK SYSTEM SHOWN

BOLLARD MATERIAL

TYPE	MATERIAL	COMMENTS
BD1	LOG	
BD2	STEEL	
BD3	CONCRETE	
BD4	TIMBER	
BD5	RAILROAD TIE	
BD6	MANUFACTURED	
BD7		

- NOTES:
1. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
 2. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
 3. WHEN SPECIFIED INSTALL PER MANUFACTURERS INSTRUCTION.
 4. OBJECT MARKERS REQUIRED ON MOTORIZED TRAILS.

PRESERVATIVE TREATMENT - (REFER TO ANPA USE CATEGORY SYSTEM)		
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY
P1	WB	UC4A
P2	WB	UC3B
P3		

TREATMENT TYPE
WB = WATERBORNE
OT = OIL-BORNE

USE CATEGORY
UC3B = ABOVE GROUND - EXPOSED
UC4A = GROUND CONTACT - GENERAL USE
UC4B = GROUND CONTACT - HEAVY DUTY

PROJECT NAME & LOCATION
Arcata Ridge Trail-Fickle Hill Section 2018
City of Arcata Environmental Services Department

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
STANDARD TRAIL PLAN

DRAWING NAME
SECTION

BOLLARDS
945 - BOLLARDS

TYPICAL ID
BLD

REVISION DATE
1-2-19

NO SCALE

DRAWING NO.
STD_945-10-01
SHEET
6 OF 6

[DRAFT]

[REMOVED]

TYPICAL WOVEN WIRE FENCE SECTION

WIRE CLIP
N/A WHEN NO.1 APPLICABLE
BRACE POST 5 INCH MIN (TYP)
TWIST STICK
HORIZONTAL BRACE 4 INCH MIN (TYP)
24 INCH MIN EMBEDMENT DEPTH (TYP)
TYPICAL POST SPACING
8 FOOT (TYP)
2 STRAND NO. 9 SMOOTH WIRE
42 INCHES MINIMUM EMBEDMENT DEPTH (TYP)
BACKFILL WITH SUITABLE MATERIAL
SINGLE PANEL END AND GATE BRACE SECTION
47 INCHES MAXIMUM FENCE HEIGHT
1-1/2 INCH STAPLE MINIMUM AT 30" TO 45" (TYP)
42 INCHES MINIMUM EMBEDMENT DEPTH (TYP)
24 INCH MIN EMBEDMENT DEPTH (TYP)
36 INCHES MIN EMBEDMENT DEPTH (TYP)
2 STRANDS OF NO. 9 SMOOTH WIRE
BRACE POST 5 INCH MIN (TYP)
TWIST STICK
HORIZONTAL BRACE 4 INCH MIN (TYP)
47 INCHES MAXIMUM FENCE HEIGHT

TYPICAL WOVEN WIRE FENCE SECTION

WIRE CLIP
N/A WHEN NO.1 APPLICABLE
BRACE POST 5 INCH MIN (TYP)
TWIST STICK
HORIZONTAL BRACE 4 INCH MIN (TYP)
24 INCH MIN EMBEDMENT DEPTH (TYP)
TYPICAL POST SPACING
8 FOOT (TYP)
2 STRAND NO. 9 SMOOTH WIRE
42 INCHES MINIMUM EMBEDMENT DEPTH (TYP)
BACKFILL WITH SUITABLE MATERIAL
SINGLE PANEL END AND GATE BRACE SECTION
47 INCHES MAXIMUM FENCE HEIGHT
1-1/2 INCH STAPLE MINIMUM AT 30" TO 45" (TYP)
42 INCHES MINIMUM EMBEDMENT DEPTH (TYP)
24 INCH MIN EMBEDMENT DEPTH (TYP)
36 INCHES MIN EMBEDMENT DEPTH (TYP)
2 STRANDS OF NO. 9 SMOOTH WIRE
BRACE POST 5 INCH MIN (TYP)
TWIST STICK
HORIZONTAL BRACE 4 INCH MIN (TYP)
47 INCHES MAXIMUM FENCE HEIGHT

DETAILS:

(A) SPIKE DETAIL
5 INCH MINIMUM
HORIZ. BRACE
6 INCH MINIMUM
(2) 60d GALV SPIKE
3/8 X 4 INCH STEEL DOWEL

(B) NOTCH DETAIL
5 INCH MINIMUM
HORIZ. BRACE
6 INCH MINIMUM
(2) 60d GALV SPIKE
3/8 X 4 INCH STEEL DOWEL (OPTIONAL)
POST

(C) PIN DETAIL
5 INCH MINIMUM
HORIZ. BRACE
6 INCH MINIMUM
(2) 60d GALV SPIKE
3/8 X 4 INCH STEEL DOWEL

NOTES:

1. REFER TO THE PUBLICATION "FENCES" PREPARED BY THE MISSOURIA TECHNOLOGY AND DEVELOPMENT CENTER FOR ADDITIONAL CONSTRUCTION DETAILS AND INSTALLATION PROCEDURES.
2. FENCE AND GATE LOCATIONS AS STAKED IN THE FIELD.
3. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF BRACING OR POSTS.
4. COMPACT AND BACKFILL POST HOLES IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.

PRESERVATIVE TREATMENT - (REFER TO AWPFA USE CATEGORY SYSTEM)


PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

1. REFER TO THE PUBLICATION "FENCES" PREPARED BY THE MISSOULA TECHNOLOGY AND DEVELOPMENT CENTER FOR ADDITIONAL CONSTRUCTION DETAILS AND INSTALLATION PROCEDURES.

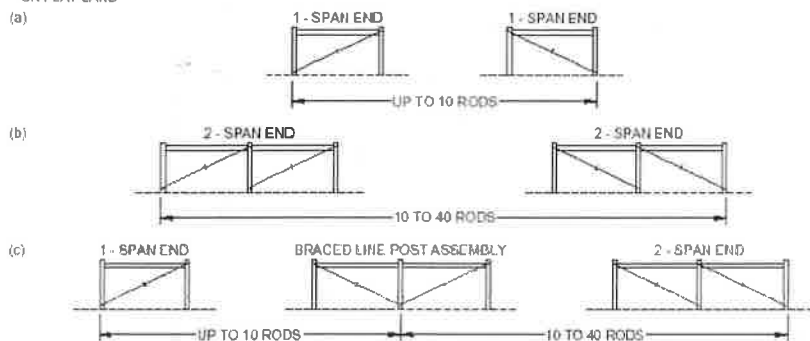
2. FENCE AND GATE LOCATIONS AS STAKED IN THE FIELD.
3. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF BRACING OR POSTS.
4. COMPACT AND BACKFILL POST HOLES IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.

PRESERVATIVE TREATMENT – (REFER TO AWP/A USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

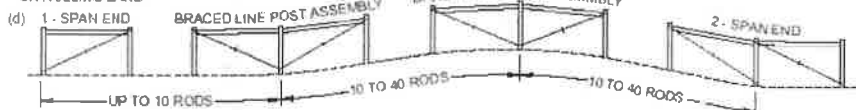
TREATMENT TYPE	USE CATEGORY
WB = WATERBORNE	UC3B = ABOVE GROUND
OT = OIL-BORNE	UC4A = GROUND CONTACT
	UC4B = GROUND CONTACT

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE	STANDARD TRAIL PLAN		PROJECT NAME & LOCATION	DRAWING NAME	REVISION DATE	DRAWING NO.
			Arcata Ridge Trail Prop. Line fence	WOVEN WIRE FENCE	XX/XX/XX	STD_941-30-01
			SECTION	TYPICAL ID	SHEET	
				941 - FENCES	7 OF 9	
			NOT TO SCALE			

STRAIGHT FENCES
ON FLAT LAND



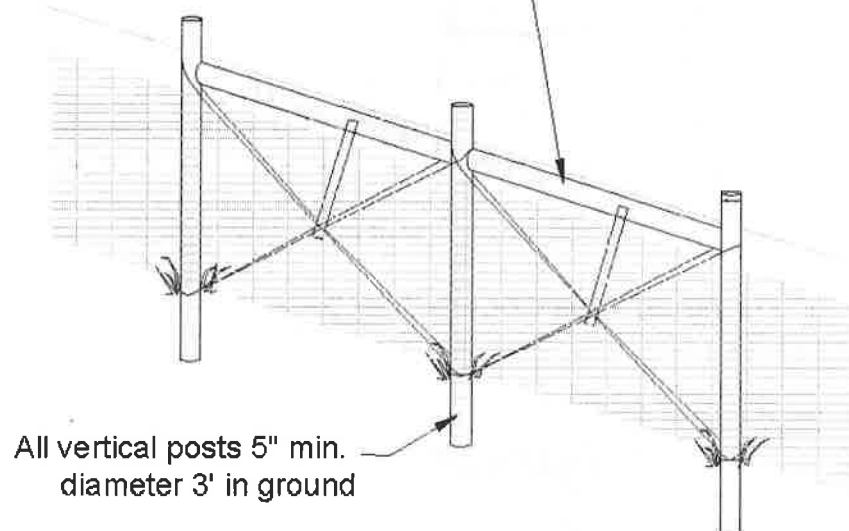
STRAIGHT FENCES
ON ROLLING LAND



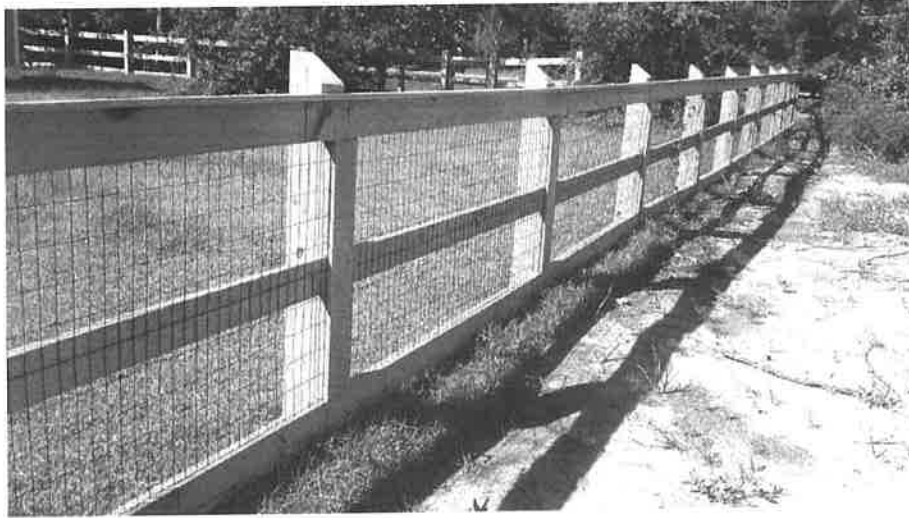
CURVED FENCES



Horizontal rail 4" min.
diameter x 8' long



Double - H Brace Pull Assembly



Type 2 fence

Split material redwood post and rails and hog wire. Dimensions: **Height 36"-48"** above ground surface **on downhill side of trail. Post dimensions 6-8" dia. .**

[illegible]

TYPICAL ID	OUTSLOPE	INSLOPE	CROWNED SECTION	COMMENTS
TCS-1	2 %	%	%	

TREAD FINISH	ROOTS	LOOSE ROCK	EMBEDDED ROCK	COMMENTS
T1	0 %	0 %	0 %	SMOOTH MINERAL SOIL

SLOPE FINISH	TRAILBED FINISH
REMOVE ROOTS THAT PROTRUDE FROM THE BACKSLOPE WITH DIAMETERS GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE	REMOVE LOOSE ROCK ON THE TRAILBED WITH A DIMENSION GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE

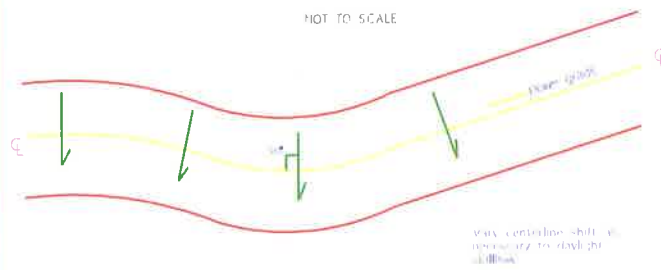
1. SLASH CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.

2. LIMB ALL TREES AND SHRUBS AND TAMP SLASH INTO GROUND SO THAT 80% OF SLASH IS IN CONTACT WITH THE GROUND.

2nd COMPACTED RECYCLE
BASE MATERIAL
APPLIED TO SURFACE

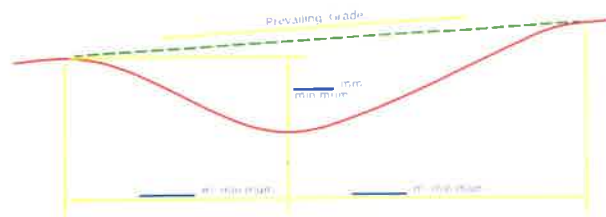
GRADE DIP, TYPICAL DRAWING

NOT TO SCALE



Maintain sidewalk
and trailbed width

PLAN VIEW



PROFILE

Arcata Ridge Trail, 2018

912-4



COUNTY OF HUMBOLDT

AGENDA ITEM NO.

C-12

For Meeting of April 6, 2010

Date: March 5, 2010
To: Board of Supervisors
From: *[Signature]* Kim Girard, Director of Community Development Services
Subject: HR 2389 – Recreational and Conservation Easement Support Program – City of Arcata
Funding Request (Arcata Ridge Trail Property Acquisition Appraisal Costs)

RECOMMENDATIONS:

That the Board of Supervisors:

1. Receive the staff report; and
2. Approve funding request of \$9,600 from the City of Arcata to provide funding for preparation and execution, associated legal expenses and appraisal costs for the **Arcata Ridge Trail Property Acquisition and/or Conservation Easement.**

SOURCE OF FUNDING:

The Recreational and Conservation Easement Program is funded by HR 2389 (Public Law 106-393, "Secure Rural Schools and Community Self-Determination Act of 2000"), from Trust Fund 3671.

Prepared by *[Signature]*
Martha Spencer, Supervising Planner

CAO Approval *[Signature]*

REVIEW:	Auditor <i>[Signature]</i>	County Counsel <i>[Signature]</i>	Personnel _____	Risk Manager _____	Other _____
TYPE OF ITEM					
<input checked="" type="checkbox"/> Consent					
<input type="checkbox"/> Departmental					
<input type="checkbox"/> Public Hearing					
<input type="checkbox"/> Other _____					

cc: Mark Andre, City of Arcata
736 F Street
Arcata, CA 95521

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT
Upon motion of Supervisor **SMITH**
Seconded by Supervisor **LOVELACE**
And unanimously carried by those members present.
The Board hereby adopts the recommended action
contained in this report.

PREVIOUS ACTION/REFERRAL:

Board Order No. D-2, C-7 and C-6

Meeting of: March 22, 2005, June 6, 2006 and November 6, 2007

Dated: April 6, 2010
Kathy Hayes, Clerk of the Board

By: *[Signature]*

AGENDA ITEM NO.

COUNTY OF HUMBOLDT

For Meeting of April 6, 2010

Date:

To:

From:

Subject:

March 5, 2010

Board of Supervisors

Kilrard,;Director of Community Development Services

HR 2389 - Recreational and Conservation Easement Support Program - City of Arcata

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Prepared b

Martha Spencer, Supersising Planner

REVIE

Auditor

TYPE OF I

County Counsel

x Consent

Departmental

Public Hearing

Other

CAO Approval

t C, Personnel Risk Manager Other

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT

cc: Mark Andre, City of Arcata Upon motion of Supervisor SMITH

736 F Street Seconded by Supervisor LOVELACE

Arcata, CA 95521 And unanimously carried by those members present,

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PREVIOUS ACTION/REFERRAL:

Board Order No. D-2 C-7 and C-6

Meeting of: March 22, 2005, June 6. 2006 and November 6,2007



PLANNING DIVISION
PLANNING AND BUILDING DEPARTMENT
COUNTY OF HUMBOLDT

3015 H Street, Eureka, CA 95501
Phone (707) 445-7541 • Fax (707) 268-3792
www.co.humboldt.ca.us/planning

RECEIVED

AUG 15 2012

CITY OF ARCATA
ENVIRONMENTAL SERVICES DEPT.

Applicant

Theodore & Lucinda Humphry
1736 Fickle Hill Road
Arcata CA 95521

Owner

Agent

City of Arcata
Mark Andre
736 F Street
Arcata CA 95521

Notice of Appeal Period Completion

Date August 14, 2012
Assessor Parcel No. 500-021-001-000; 503-281-003-000
Permit LLA-12-012
Contact Trevor Estlow - 268-3740

Description

A Lot Line Adjustment between two parcels to adjust approximately 2.5 acres of the Humphry parcel onto the City of Arcata parcel. The purpose of the Lot Line Adjustment is to provide space for a public trail that will allow for the residential area on Fickle Hill Road to access the Arcata Community Forest.

Decision

The project referenced above was approved by the Administrative Director on August 1, 2012.

Appeal Completion

The appeal period for this project has been completed and no appeal has been requested.

Effective Date

Effective date of your permit is August 14, 2012.

Expiration Date

Expiration date is August 14, 2015.

**Project Description and Notes pertaining to Segment of the Arcata Bike and Pedestrian Master Plan
2010 called Arcata Ridge Trail spanning from FH road to the Sunnybrae Tract of the Arcata Community
Forest**

Much of the trail will be constructed by converting a former skid road. As such, the project footprint has been disturbed with little understory vegetation remaining. While some underbrush will be removed, vegetation removal will be limited primarily to herbaceous species. No tree removal will occur except for traffic visibility requirements at the Fickle Hill Road crossing area. These young trees may be removed or trimmed to enhance greater visibility and to increase public safety.

The slope varies throughout the span of the trail. The trail will be designed to cross slopes to minimize erosion and provide a more level grade for recreationalists. It will be constructed using State Park *Trails Handbook* standards and with USDA Forest Services Standard Trail Plans and Specifications. Drainage guidelines in the *Handbook for Forest and Ranch Roads* by Pacific Watershed Associates will also be consulted for hydrologic disconnect of trail surfaces from watercourse, springs and wetlands. Construction will be performed with hand tools and no major grading is required. The CGS slope stability maps show

The project area was scoped with current inventories of the CDFW *California Natural Diversity Database* (CNDDDB Rare Find 5, BIOS, and Quick View), California Native Plant Society's (CNPS) *Inventory of Rare and Endangered Plants of California* (online edition, v8-03 0.38), and a 2008 botanical survey for Schmidbauer THP #1-08-166HUM. Using CDFW Quick View, City staff preformed a 9-quad search, which resulted in 5 amphibians, 32 birds, 8 mammals, and 53 plants. The search was then refined to target list with potential to occur in the project area, which resulted in 3 amphibians, 5 birds, 5 mammals and 19 plants. The target list provided below in Table 1. Of these species only one species of CNPS List 4.1 plants was detected in the project area (Running Pine; *Lycopodium clavatum*). The plant was flagged and mapped by the City and its detection information was submitted to the CNDDDB. For amphibians included in the target list, the preferred trail route stays as far away from streams as possible and thus amphibians that are closely tied to stream channels should have no effect on them if present. Additionally, the streams in the project area are marginal at best (lacking rocky splash zones) for species included in the target list. For the bird species included in the target list, all of which were raptors, their calls and nest structures have been listened & looked for while in the field on multiple occasions and were not encountered. Vegetation within the project area could potentially be used for nesting by many common bird species. For the mammal species included in the target list, their habitat preferences were also looked for while in the field. Fishers are known to be in the area and have been detected by the City and submitted to CNDDDB, but mustelids are highly mobile and no trees with potential dens were identified and thus should have no effect on denning potential for Fishers or martens.

In addition to botanical and wildlife surveys, annual Northern Spotted Owl surveys with the most current USFWS protocol are conducted in the area (which include and cover the project area) in accordance to the City's NTMP (1-99NTMP-033 HUM). These surveys have been conducted annually in the project area since 2007 and have had no detections of spotted owls. Additionally, no spotted owl detections have been made on the property as per CNDDDB.

No discretionary permits are required. The project is located outside of the Coastal Zone and therefore does not require a Coastal Development Permit from the California Coastal Commission (CCC) or City of Arcata (City). No state or federally listed species are known to exist within the project area or will be

impacted by the project. The project does not involve dredging, filling, or discharging to waters of the US or Waters of the State and is therefore not subject to a Section 404 or 401 Water Quality Certification. It does not alter the stream bed, bank, or channel and is therefore not subject to a Lake and Streambed Alteration Agreement.

A domestic water source is located close to the project. The water source spring and pump houses are open and not locked. The associated spring house, tanks and appurtenant structures have been mapped. The drainage course that leads to the northern most spring intake was mapped as was wet spots in the low summer season and during a heavy rainfall event during the winter trying to estimate the zone of influence from overland flow. City staff a large number of parcel records to find out which property owners have access to the spring. Two public meetings were held at City hall with the mailing list generated by the parcel deed research. The information gathered for the trail project will be pertinent to the NTMP amendment that adds the Schmidbauer tract into the City Non-Industrial Timber Management Plan 1-99-NTMP-033HUM in 2020. The proposed trail route has been adjusted to route as far as possible from the water system as possible. Staff has interfaced with the Ca. Division of Drinking Water to determine that currently the water system does not qualify as a "small community public system". According to the Humboldt County Environmental Health Department the system potentially does fall under the County's authority to monitor and inspect.

The Humboldt County Environmental Health Dept reviewed the project map and provided the following input: *"It appears that you have established adequate safeguards to protect surface water threats to the well or spring box. The applicable regulations are informed by California Well Standards Bulletin 74-81 and Supplement 74-90 which include explicit setback requirements to a variety of contamination sources including items such as barnyard and stable areas, and feedlots, much more intensive land use than the scenario at hand. Pet feces presented during recreational trail use would not pose a significant threat to ground water and we consider **all surface water unpotable without treatment**. Sampling of the water source can always be done by the system operator to confirm this at any time, should concerns linger"*.

Staff spoke to Maggie Robinson at the RWQCB regarding prudent domestic water supply protection measure for the trail (RWQCB does not regulate that activity) as well as future timber operations (RWQCB and CAL FIRE regulate that activity).

Measures to protect the water source include:

1. Property line fencing to prevent access to the water system from the public land as well as fencing of the surface water that emerges from hillslope and then goes underground.
2. Signage "Private Property-No public Access" in three locations.
3. Main trail sign "Respect Adjacent Private Property- Stay on the Trail."
4. Routing trail as far to the east and northeast as feasible and parallel to the County road at the top crossing locations.
5. Trailside fencing to prevent shortcutting from FH road for the first 190' downhill to the SE.
6. Planting native conifers (redwood and western hemlock) to screen water tanks and interfaces with private properties.

Trail Operation

ACF trails are open dawn to dusk and are maintained by the City of Arcata Environmental Services Department. No motorized vehicles are allowed. The Arcata Municipal Code and the Arcata Forest Management Plan guide recreational management the ACF. The Arcata Police Dept provides for public safety within the ACF.

Table 1: Botanical and Wildlife Target List

Element_Type	Scientific_Name	Common_Name	Federal Status	State Status	CDFW Status	CA Rare Plant Rank
Amphibians	Ascaphus truei	Pacific tailed frog	None	None	SSC	-
Amphibians	Rana aurora	northern red-legged frog	None	None	SSC	-
Amphibians	Rana boylei	foothill yellow-legged frog	None	Candidate Threatened	SSC	-
Birds	Accipiter cooperii	Cooper's hawk	None	None	WL	-
Birds	Accipiter striatus	sharp-shinned hawk	None	None	WL	-
Birds	Haliaeetus leucocephalus	bald eagle	Delisted	Endangered	FP	-
Birds	Pandion haliaetus	osprey	None	None	WL	-
Birds	Strix occidentalis caurina	northern spotted owl	Threatened	Threatened	SSC	-
Mammals	Arborimus pomo	Sonoma tree vole	None	None	SSC	-
Mammals	Martes caurina humboldtensis	Humboldt marten	None	Candidate Endangered	SSC	-
Mammals	Pekania pennanti	fisher - West Coast DPS	None	Threatened	SSC	-
Mammals	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
Mammals	Myotis evotis	long-eared myotis	None	None	-	-
Plants	Ribes laxiflorum	trailing black currant	None	None	-	4.3
Plants	Erythronium oregonum	giant fawn lily	None	None	-	2B.2
Plants	Erythronium revolutum	coast fawn lily	None	None	-	2B.2
Plants	Lilium kelloggii	Kellogg's lily	None	None	-	4.3
Plants	Lilium occidentale	western lily	Endangered	Endangered	-	1B.1
Plants	Lilium rubescens	redwood lily	None	None	-	4.2
Plants	Lycopodium clavatum	running-pine	None	None	-	4.1
Plants	Iliamna latibracteata	California globe mallow	None	None	-	1B.2
Plants	Sidalcea malachroides	maple-leaved checkerbloom	None	None	-	4.2
Plants	Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	None	None	-	1B.2
Plants	Sidalcea oregana ssp. eximia	coast checkerbloom	None	None	-	1B.2
Plants	Montia howellii	Howell's montia	None	None	-	2B.2

Plants	<i>Listera cordata</i>	heart-leaved twayblade	None	None	-	4.2
Plants	<i>Piperia candida</i>	white-flowered rein orchid	None	None	-	1B.2
Plants	<i>Pleuropogon refractus</i>	nodding semaphore grass	None	None	-	4.2
Plants	<i>Coptis laciniata</i>	Oregon goldthread	None	None	-	4.2
Plants	<i>Chrysosplenium glechomifolium</i>	Pacific golden saxifrage	None	None	-	4.3
Plants	<i>Mitellastrca caulescens</i>	leafy-stemmed mitrewort	None	None	-	4.2
Plants	<i>Tiarella trifoliata</i> var. <i>trifoliata</i>	trifoliolate laceflower	None	None	-	3.2

