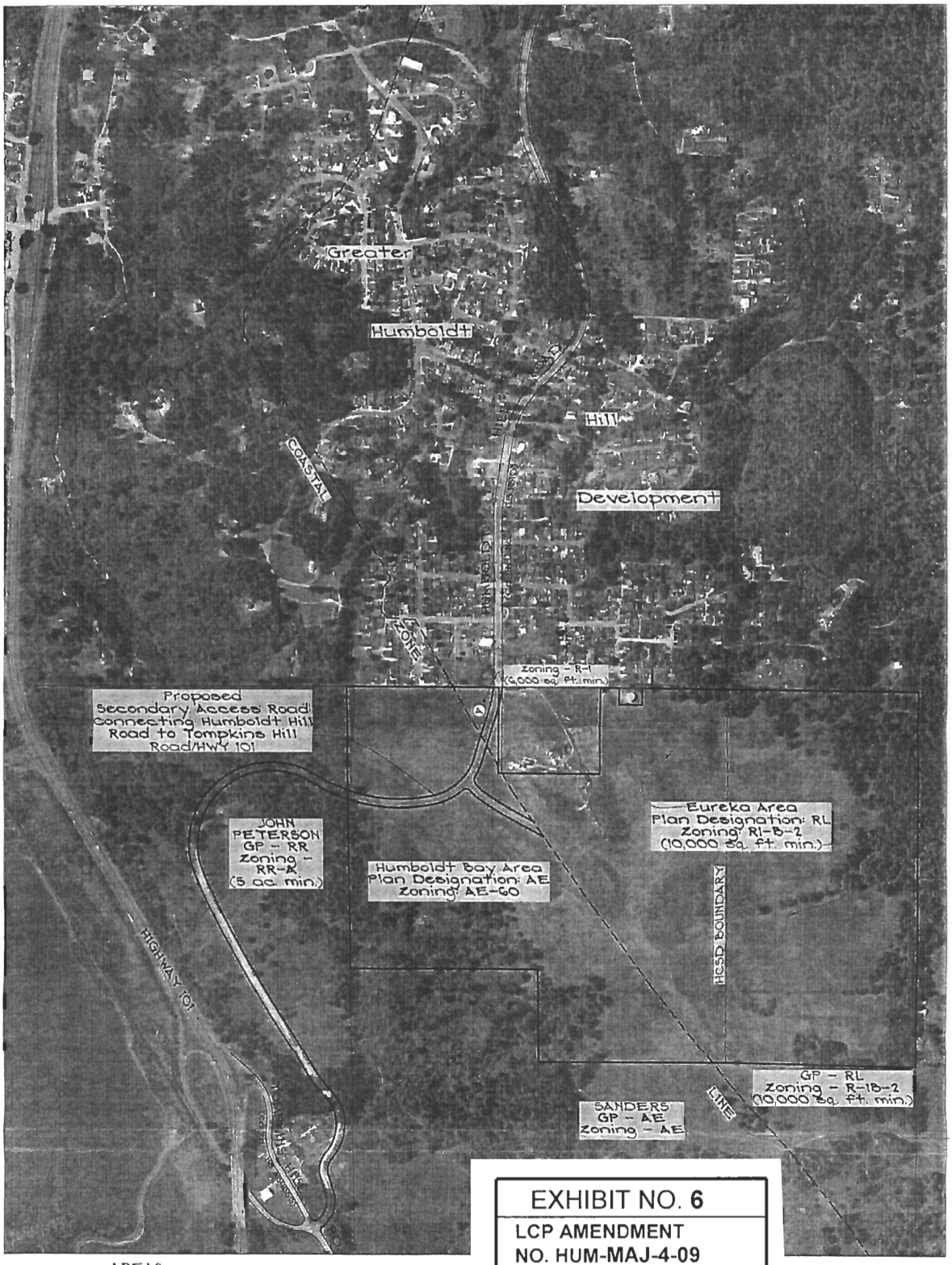


EXHIBIT NO. 6

LCP AMENDMENT
NO. HUM-MAJ-4-09

Barry/Petersen/Chism LUP Amendment (Humboldt Hill Road Extension)

CONCEPTUAL ROAD PLANS (1 of 8)

AREAS

Total Area	= 213± acres
Non-Coastal Triangle (A)	= 2± acres
Non-Coastal area within HCSD boundary	= 55± acres
Coastal area within HCSD boundary	= 77± acres
Non-Coastal area outside of HCSD boundary	= 82± acres
Proposed road area within coastal zone	= 3± acres

SCALE 1" = 600'

APN's 307-041-007 & 307-031-052

NO	REVISION	DATE	BY

CHISBERG & DRESTON
SURVEYORS PLANNERS ENGINEERS

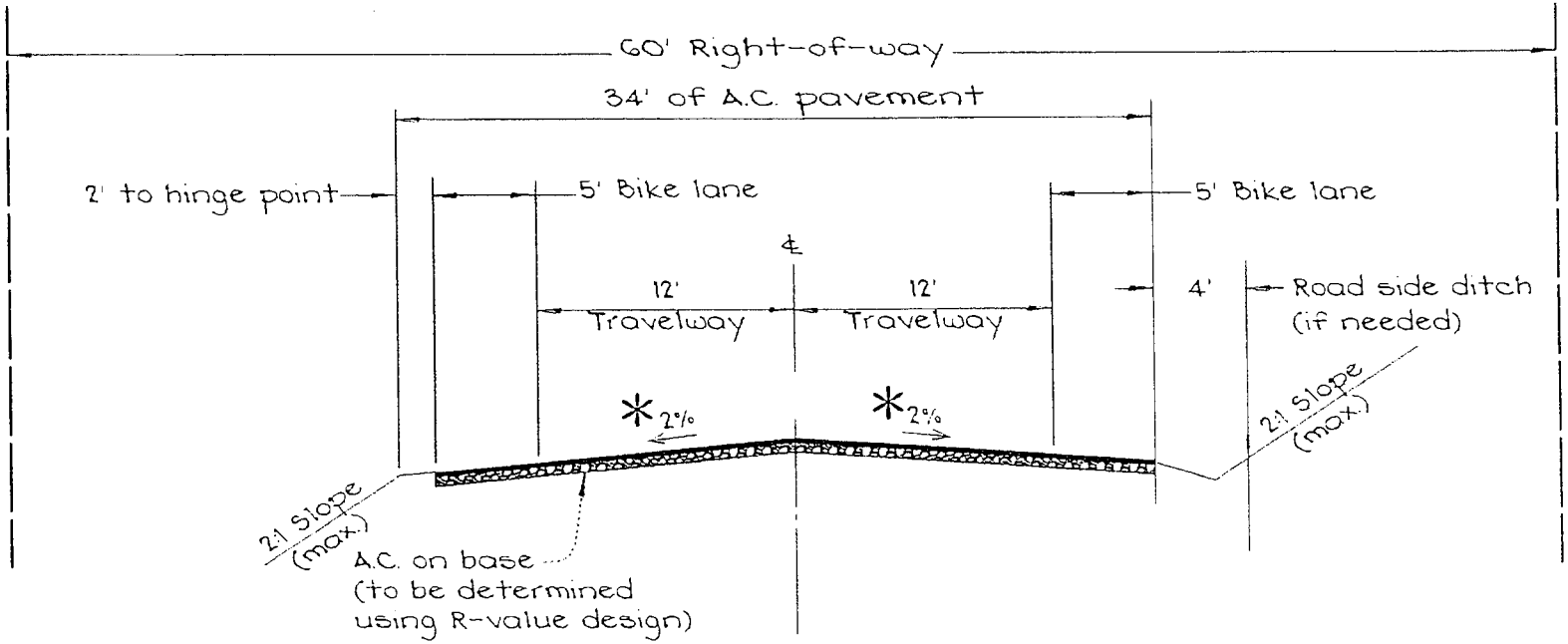
DESIGNED BY DATE
DRAWN BY DATE 04/18/07
CHECKED BY DATE

HUMBOLDT HILL
PATRICK BARRY
in the County of Humboldt
Section 20 & 21, T.4N., R.1W., H.M.

SCALE 1" = 600'
JOB NO. 04-1806
SHEET 1 OF 1

SHEET 14

BARRY-PETERSON ROAD



* Cross-slope to vary depending on drainage & superelevation considerations.

TYPICAL ROAD CROSS-SECTION

Not to Scale

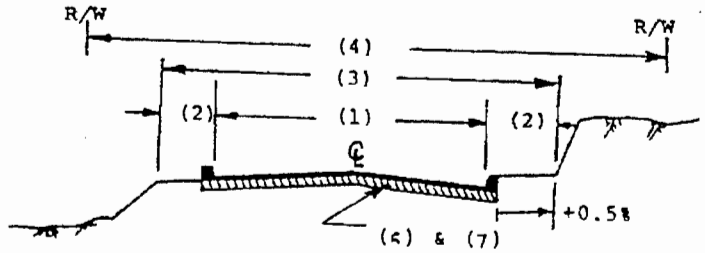
DESIGN STANDARDS

ROADWAY CATEGORY 5 (TWO LANE—WIDE TRAVELED WAY)

Service Provided:

Mobility	Volume
Moderate to High Over 40 MPH	0 -400 ADT

TYPICAL SECTION



Notes:

(1) Traveled Way Width: 24 ft.

(2) Shoulder Width: 4 feet when required by Dept. of Public Works

(3) Roadbed Width: As approved by the Dept. of Public Works

(4) Right of Way Width: Minimum 50 ft.

(5) Drainage: Must be adequate to protect road and adjacent properties and approved by the Department of Public Works

(6) Structural Section: Depends upon results of engineering analysis of materials and soil, and approval by Dept. of Public Works

(7) Surface: Asphalt Concrete (A.C.) or Double Seal with curbs as approved by the DPW

(8) Parking Permitted as per approval of DPW

Geometric Standards:

ELEMENT	DESIGN SPEED/TERRAIN										
	Flat			Rolling				Mountainous			
	40	50	60	30	40	50	60	30	40	50	20
Grade (1)	7	6	5	12	10	8	6	12	10	9	15
Maximum Grade *	11	9	8	18	15	12	9	18	15	13	22
	30	40	50	65	70						
Sight Distance											
Stopping	200	275	350	600	See						
Passing	1100	1500	1800	2300	State						
Intersection	300	400	500	650	Design						
Minimum Curve Radius	300	550	850	1500	Manual						
Horizontal Clearance to obstructions	10	10	10	10							
Surface Cross Slope	2%	2%	2%	2%							

Notes: Minimum paved gutter with dike is 2' wide. Shoulder will be paved when specified by Dept. of Public Works

For super-elevation requirements see Section 2-312 of the Roadway Design Manual

* For short distances (300' maximum and/or approved by the Department of Public Works)

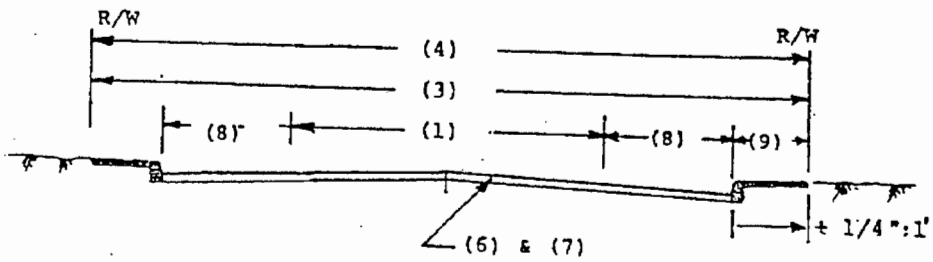
(1) Minimum Grade 1%

For further information see Humboldt County Road Design Manual

Figure 5

ROADWAY CATEGORY 6 (TWO LANE-WIDE TRAVELED WAY WITH SIDEWALKS AND ON-STREET PARKING)

TYPICAL SECTION



Service Provided:

Mobility	Volume
Moderate to High Over 40 MPH	Over 400 ADT

Notes:

(1) Traveled Way Width: 24 ft.

(2) Shoulder Width: 8 feet when required by Department of Public Works

(3) Roadbed Width: As approved by the Department of Public Works

(4) Right of Way Width: Minimum 50 ft.

(5) Drainage: Must be adequate to protect road and adjacent properties and approved by the Department of Public Works

(6) Structural Section: Depends upon results of engineering analysis of materials and soil, and approval by Dept. of Public Works

(7) Surface Recommendation: Asphalt Concrete (A.C.) or Double Seal with curbs as approved by the Department of Public Works

(8) Parking Lane: A minimum of 8 ft. wide by 40 ft. long, or as approved by Dept. of Public Works

(9) Curb and Sidewalk: As approved by the Department of Public Works

Notes: Minimum paved gutter with dike is 2' wide. Shoulder will be paved when specified by Dep. of Pub. Works.

Geometric Standards

ELEMENT	DESIGN SPEED/TERRAIN									
	Flat			Rolling				Mountainous		
	40	50	60	30	40	50	60	30	40	50
Grade (1)	7	6	5	12	10	8	6	12	10	15
Maximum Grade *	11	9	8	18	15	12	9	18	15	22
	30	40	50	65	70					
Sight Distance										
Stopping	200	275	350	600	See					
Passing	1100	1500	1800	2300	State					
Intersection	300	400	500	650	Design					
Minimum Curve Radius	300	550	850	1500	Manual					
Horizontal Clearance to obstructions	10	10	10	10						
Surface Cross Slope	2%	2%	2%	2%						

For superelevation requirements see Section 2-312 of the Roadway Design Manual

Topography may require deletion of parking on one side

Figure 6

* For short distances (300' maximum and/or approved by the Department of Public Works)
(1) Minimum Grade 1% or 0.5% concrete if curb and gutter constructed

For further information see Humboldt County Road Design Manual

04-1506

November 17, 2008

Humboldt County Planning Commission
3015 H Street
Eureka, CA 95501

Re: Alternative Access Route through Patrick Barry and John Peterson Property

Dear Planning Commissioners:

This letter is a follow-up to the October 16, 2008 letter with the large exhibit showing a proposed secondary access from the south end of Humboldt Hill Road through the Patrick Barry and John Petersen property that connects to Tompkins Hill Road at the interchange with State Route 101. This follow-up letter evaluates three alternative road alignments in this corridor. The three alternative alignments are in the forested areas on the John Petersen property from Point "A" to Point "B" (see Road Alignment Exhibit Plats).

The three alternatives (A, B and C) have different standards and varying impacts to biological resources. The following chart depicts the alternatives.

Barry – Petersen Road Alternatives

Alternative	Minimum Curve Radius	Average Grade A-B	Maximum Grade	Proximity to Identified Seeps*	Length A - B	Adherence to County Road Standards (Collector)
A	300'	16%	16%	Close	1920'	Completely
B	200'	15%	16%	>50'	2050'	Mostly
C	100'	13½ %	16%	>50'	2250'	Minimally

**See November 10, 2008 letter from Mad River Biologist*

All alternatives are proposed to have 34 feet of AC pavement which includes 2 – 12 foot travelways and 2 – 5 foot bike lanes. The total length for alternative "A" is approximately 6,100 feet or 1.16 miles.

Stephen G. Nesvold, P.E.
RCE 25681, Expires 12/31/09

REGISTERED PROFESSIONAL ENGINEER
STEPHEN G. NESVOLD
No. 25681
EXP. 12-31-2009
CIVIL
STATE OF CALIFORNIA

548

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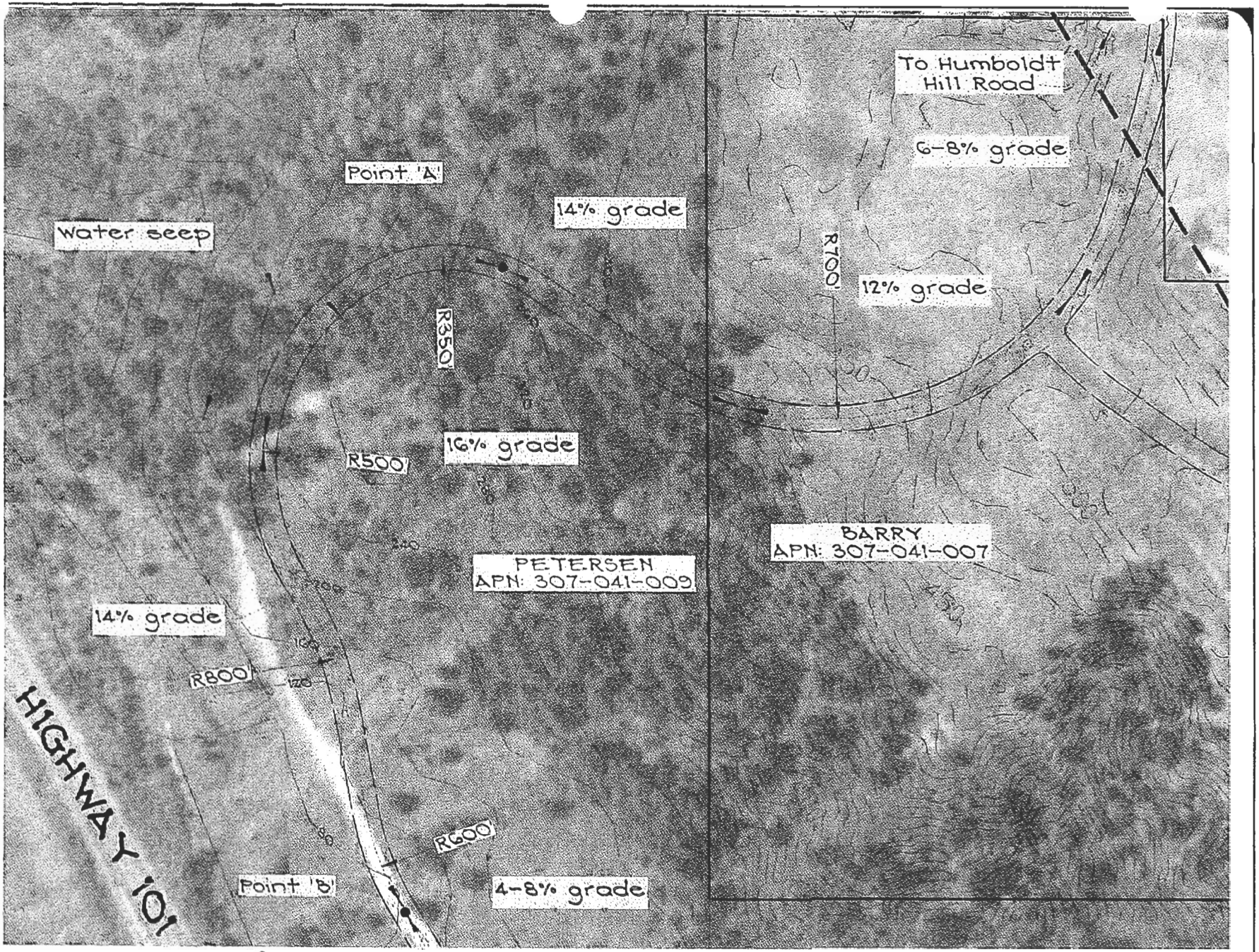

SCALE: 1" = 300'±

OMSBERG & PIESTON
304 "N" Street
Eureka, California
95501
Telephone
(707) 443-8651
Fax: 443-0422
SURVEYORS PLANNERS ENGINEERS

DRAWN BY TRK
DATE 11/13/08

ALTERNATIVE 'A'

ROAD ALIGNMENT EXHIBIT PLAT

JOB NO. 04-1506