

38

14

- 4400 GEYSERS RD GEY  
B-143154

# COUNTY OF SONOMA

## PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA

(707) 527-1900 FAX (707) 527-1103

<b>PLANCHCK RECEIPT ONLY - NOT A PERMIT</b>	<b>B-143159</b>
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Address: 4400 CAYSERS RD GEY

Printed: 15:30 Jun 26, 1997

APN: 131-040-017

Cross Street: RED WINERY RD

In Planchck: 00/00/0000

Res/Com: C

Activity Type: B-BLD 9601

Std/Quick: S Fire District: ....

Insp Area:

Tax Rate Area: 097020

Owner JACKSON JESS S JR TR ET AL 421 AVIATION BLVD SANTA ROSA CA 954031069	Applicant JULIP JLLINS/KENDALL-JACKSON 421 AVIATION BLVD SANTA ROSA CA 95403 707 547 4763
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Planchck Expires: 00/00/0000

Description: RAIL C/ BRIDGE OVER MILLER CREEK - BRIDGE #2

Initialized By: CNIDERM Approved By: Status: APPLIED  
 Planchck Multiplier: 1.00

Occupancy	Ty	Factor	Sq. Feet	Valuation	
		Sukttotal:			.00
		Multiplier 1.00:			.00
		Addl Fixed Amount:			80,000.00
		Total Valuation:			80,000.00

Table Date: 07/01/1997

Item #	Item Account Code	Description	Fee	Previously Paid
0060	025619-1341	BLDG PERM PLAN CHECK FEE	\$383.13	\$0.00
0100	025619-1341	SITE REVIEW/ELEV. CERT.	\$0.00	\$0.00
0121	025619-1341	FIRE SAFE STDS/REP FEES	\$0.00	\$0.00
0707	025627-3140	REF.-GRADING/DRAIN. PLAN	\$0.00	\$0.00
0708	025627-3140	REF.-GRD/DRAIN DAM/DRVWY	\$0.00	\$0.00
5060	025619-1341-WAIVED	BLDG PERM PLAN CHECK FEE	\$0.00	\$0.00
5100	025619-1341-WAIVED	SITE REVIEW/ELEV. CERT.	\$0.00	\$0.00
5121	025619-1341-WAIVED	FIRE S.S. REFERRAL FEE	\$0.00	\$0.00
5707	025627-3140-WAIVED	REF.-GRADING/DRAIN. PLAN	\$0.00	\$0.00
5708	025627-3140-WAIVED	REF.-GRD/DRAIN DAM/DRVWY	\$0.00	\$0.00

Qualifies for Fee Waivers (Y/N): N \$383.13 \$0.00

Total Calculated Fees	\$383.13	
Total Additional Fees	\$0.00	CASH REGISTER
Previously Paid	\$0.00	VALIDATION
Balance Due	\$383.13	REQUIRED
		BELOW

*Lola*  
*Here are the 3 Bridge*  
*Jobs for K.J.*  
*RICK*

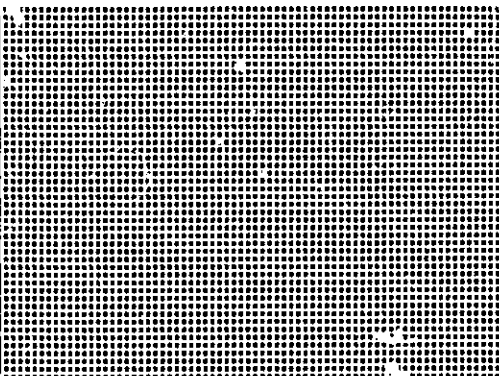
016125 07 01 97001  
 # 0143159  
 STEPP# \$383.13  
 WAST# \$000.00  
 CHECK \$383.13  
 CH# \$0.00

Permit: B-143159 Applicant: JULIE COLLINS/KENDALL-JACKSON  
Status: ISSUED Address: 4400 GEYSERS RD GEY  
Notice: SEE B-144546 FOR GRADING PERMIT FOR THIS JOB.

2

Inspections for Activity  
Item Flags Description

100	■	site inspection
500	r ✓	plancheck
510	r ✓	fire plancheck
520	r ✓	Drainage Review
101		grading, rough
102		grading, final
103		foundations
104		piers/piles
105		slab
106		ufer ground
107		underground utilities



F1=Help, INS=Insert, A=Add at End, F5=Requests, F6=ALL Notations, ESC=Exit

3

DOCUMENT: DRAINAGE REVIEW - STORAGE POND \_\_\_ GRADING \_\_\_ HYDROLOGY \_\_\_ X \_\_\_  
 PROJECT NUMBER \_B-143159 BY \_B.ROBERTS\_ DATE 8/28/96

SECTION	CODE	COMMENTS	SECTION	CODE	COMMENTS
3309	GRADING PERMITS REG		3315	DANG & TERRACE	
3309.1	PERMITS REQUIRED		3315.1	GENERAL	
3309.2	APPLICATIONS		3315.2	TERRACE	
3309.3	GRADING DESIGNATION		3315.3	SUBSURF DRAINS	
3309.4	ENG GRADING REQ		3315.4	DISPL SAL	
3309.5	SOILS ENG REPORTS		3315.5	INTERCEP DRAINS	
3309.6	ENG GEO REPORT		3316	EROSION CONTROL	
3309.7	LIQUID FACTION STUDY		3316.1	SLOPES	yes
3309.8	REG GRADING REPORT		3316.2	OTHER DEVICES	
3309.9	ISSUANCE		3317	GRDING INSPECTION	
3312	CUTS		3317.1	GENERAL	
3312.1	GENERAL		3317.2	CIVIL ENGINEER	
3312.2	SLOPE		3317.3	SOILS ENGINEER	
3313	FILLS		3317.4	ENG GEOLOGIST	
3313.1	GENERAL		3317.5	PERMITTEE	
3313.2	PREP OF GROUND		3317.6	BUILDING OFFICIAL	
3313.3	FILL MATERIAL		3317.7	NOTIF OF NONCOMP	
3313.4	COMPACTION		3317.8	TRANS OF RESPOS.	
3313.5	SLOPE		3318.	COMPLET OF WORK	
3314	SETBACKS		3318.1	FINAL REPORTS	
3314.1	GENERAL		3318.2	NOTIF OF COMP	
3314.2	TOP OF CUT SLOPES				
3314.3	TOE OF FILL SLOPES				
3314.4	MODIF OF SLOPE LOCAT				

**DOCUMENTS RECEIVED:**

1. Set of Plans " Bridge at South Fork of Miller Creek" sheets b1 of 7.
2. Geotechnical Report dated July 1,97.
3. Hydro / Hyd . Report dated April 1, 97
4. Fish & Game Stream Alteration #253-97. Note: recommendations missing from front page, report incomplete.

4

**1994 UBC APPENDIX CHAPTER 33**

3316.1	SLOPES
--------	--------

This code of the UBC needs to be address regarding erosion control. The plan and specs has no erosion control for fill slopes.

**DRAINAGE REVIEW AND OTHER COMMENTS**

1. Water shed area = 314ac. Engineer used the Rational Method with a 100 yr storm freq, 410 CFS. For an open channel design.
2. Hydro/Hydra Calculations were checked . O.K

**OTHER COMMENTS**

1. Sheet b7 of 7 makes reference to test pits in Geo report. Test pits are not in report.

**Information needed to complete review processes:**

1. Need recommendations. Fish & Game Stream Alteration #253-97. Note: recommendations missing from front page, report incomplete.
2. Recommend that engineer provide documentation to this office on how water level (elev 898) was established.
3. See comments on plans.

**Additional Concerns:**



**COUNTY OF SONOMA**  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

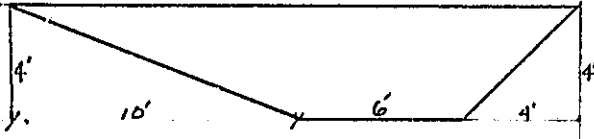
2550 Ventura Avenue, Santa Rosa, CA 95403  
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Field Operations • Code Enforcement • Permits • Environmental & Comprehensive Planning

Miller Bridges 2\* B-143159

SCALE 2" = 5'

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Miller CREEK - AREA CHECK

H&H CALCs Sheet m1 of 6 B-143159

MORRIS  
ENGINEERING

$$M_1 (2400 + 3600) (2500 + 2800)$$

$$3000 \times 2650 = 7,950,000 \text{ SF} \div 43560 = 183$$

21  
186

$$M_2 (2400 + 1300) (2200)$$

$$1850 \times 2200 = 4,070,000 \text{ SF} \div 43560 = 94$$

91

$$M_3 (1300 + 500) (1900)$$

$$900 \times 1900 = 1,710,000 \text{ SF} \div 43560 = 40$$

37

317

314

B143158 & B143159

Notification No. 253-97 TWP No. 7

AGREEMENT REGARDING PROPOSED STREAM OR LAKE ALTERATION

THIS AGREEMENT, entered into between the State of California, Department of Fish and Game, hereinafter called the Department, JULIE COLLINS REP KENDALL-JACKSON of SANTA ROSA, State of CALIF, hereinafter called the operator, is as follows:

WHEREAS, pursuant to Division 2, Chapter 6 of California Fish and Game Code, the operator, on the 24TH day of MARCH, 1997, notified the Department that he intends to substantially divert or obstruct the natural flow of, or substantially change the bed, channel, or bank of, or use material from the streambed of, the following water: MILLER CREEK, in the County of SONOMA, State of California, S T R.

WHEREAS, the Department (represented by JERRY BOESSEL, WARDEN has made an inspection of sub; et area on the day of PREVIOUS, 19, and) has determined that such operations may substantially adversely affect existing fish and wildlife resources including: TROUT, SALMON, STEELHEAD, NON-GAME AQUATIC SPECIES.

THEREFORE, the Department hereby proposes measures to protect fish and wildlife during the operator's work. The operator hereby agrees to accept the following recommendations as part of his work: Numbers 1, 2, 3, 4, 18, 19, 20 & 21 (SEE BACK), from the list of recommendations on the back of this page and the following special recommendations:

- 1. All work in or near the stream or lake shall be confined to the period APRIL 21, 1997 THRU OCTOBER 31, 1997.

PROJECT LOCATION: 4400 GEYSERS ROAD / 3.5 MILES NORTHEAST OF GEYSERVILLE. PROJECT IS TO CONSTRUCT TWO RAILCAR STREAM CROSSINGS. CROSSING NUMBER 1 CROSSES THE SOUTH FORK OF MILLER CREEK AND CROSSING NUMBER 2 CROSSES THE MIDDLE FORK OF MILLER CREEK. THE FOLLOWING PERTAINS TO BOTH CROSSINGS: (1) THE NUMBERED RECOMMENDATIONS LISTED ABOVE SHALL BE ADHERED TO AND; (2) TEMPORARY CROSSINGS MAY BE INSTALLED DURING THE NORMAL LOW SUMMER FLOW SEASON OF 1997 TO ALLOW PASSAGE DURING BRIDGE CONSTRUCTION AND; (3) THE TEMPORARY CROSSINGS SHALL INCORPORATE CMP OR OTHER SUITABLE MATERIAL CAPABLE OF ALLOWING 100% OF WATER PASSAGE AND; (4) STREAMBED GRAVEL INDIGENOUS TO THE SITE MAY BE UTILIZED AS FILL FOR THE TEMPORARY CROSSINGS AND; (5) THE TEMPORARY CROSSINGS SHALL BE REMOVED BY OCTOBER 31, 1997 AND; (6) ALL STRUCTURES CONSTRUCTED WITHIN THE STREAM CHANNEL SHALL CONFORM TO THE PLANS AND SPECIFICATIONS ESTABLISHED BY MORRIS ENGINEERING DATED 4/1/97, JOB #97-10 AND; (7) A COPY OF THIS AGREEMENT SHALL BE KEPT AVAILABLE ON THE JOBSITE DURING ALL PHASES OF CONSTRUCTION AND; (8) A COPY OF THIS AGREEMENT SHALL BE PROVIDED TO ALL CONTRACTORS, SUB-CONTRACTORS AND OTHERS DOING WORK PRIOR TO COMMENCEMENT OF SUCH WORK AND; (8) THE STRUCTURES SHALL NOT ENDOURGE UPON THE CARRYING CAPACITY OF THE STREAM CHANNEL. The operator, by signing this agreement, shall be responsible for the execution of the conditions of this agreement. A copy of this agreement must be provided to contractors and subcontractors and must be in their possession at the work site.

If the operator's work changes from that stated in the notification specified above, this agreement is no longer valid and a new notification shall be submitted to the Department of Fish and Game. Failure to comply with the provisions of this agreement and with other pertinent Code Sections, including but not limited to Fish and Game Code Sections 5650, 5652 and 5948, may result in prosecution.

Nothing in this agreement authorizes the operator to trespass on any land or property, nor does it relieve the operator of responsibility for compliance with applicable federal, state, or local laws or ordinances.

THIS AGREEMENT IS NOT INTENDED AS AN APPROVAL OF A PROJECT OR OF SPECIFIC PROJECT FEATURES BY THE DEPARTMENT OF FISH AND GAME. INDEPENDENT REVIEW AND RECOMMENDATIONS WILL BE PROVIDED BY THE DEPARTMENT AS APPROPRIATE ON THOSE PROJECTS WHERE LOCAL, STATE, OR FEDERAL PERMITS OR OTHER ENVIRONMENTAL REPORTS ARE REQUIRED.

This agreement becomes effective on APRIL 21, 1997

Operator Julie Collins Project Manager
Organization Kendall-Jackson
Date 4-18-97

Jerry Boessel Department Representative
THE FISH & GAME WDH, ENVIRONMENTAL PROJECTS
Department of Fish and Game, State of California
Date APRIL 17, 1997

## RECOMMENDATIONS

1. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. The disturbed portions of any stream channel or lake margin within the high water mark of the stream or lake shall be restored to as near their original condition as possible.
2. Restoration shall include the revegetation of stripped or exposed areas.
3. Rock, riprap, or other erosion protection shall be placed in areas where vegetation cannot reasonably be expected to become reestablished.
4. Installation of bridges, culverts, or other structures shall be such that water flow is not impaired and upstream or downstream passage of fish is assured at all times. Bottoms of temporary culverts shall be placed at or below stream channel grade. Bottoms of permanent culverts shall be placed below stream channel grade.
5. Plans for design of concrete sills and other features that could potentially impede fish migrations must be approved by Department engineers.
6. When any dam (any artificial obstruction) is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain fishlife below the dam.
7. An adequate fish passage facility must be incorporated into any barrier that obstructs fish passage.
8. Any temporary dam (any artificial obstruction) constructed shall only be built from material such as clean gravel which will cause little or no siltation.
9. No equipment will be operated in live stream channels.
10. Equipment shall not be operated in the stream channels of flowing live streams except as may be necessary to construct crossings or barriers and fills at channel changes.
11. When work in a flowing stream is unavoidable, the entire streamflow shall be diverted around the work area by a barrier, temporary culvert, and/or a new channel capable of permitting upstream and downstream fish movement. Construction of the barrier and/or the new channel shall normally begin in the downstream area and continue in an upstream direction, and the flow shall be diverted only when construction of the diversion is completed. Channel bank or barrier construction shall be adequate to prevent seepage into or from the work area. Channel banks or barriers shall not be made of earth or other substances subject to erosion unless first enclosed by sheet piling, rock riprap, or other protective material. The enclosure and the supportive material shall be removed when the work is completed and the removal shall normally proceed from downstream in an upstream direction.
12. Temporary fills shall be constructed of nonerodible materials and shall be removed immediately upon work completion.
13. Equipment shall not be operated in the lake or its margin except during construction as may be necessary to construct barriers or fills. If work in the lake is unavoidable, a certain enclosure to prevent siltation of the lake beyond the immediate working area shall be installed. The enclosure and any supportive material shall be removed when the work is completed.
14. Silt settling basins shall be located away from the stream or lake to prevent discolored, silt-bearing water from reaching the stream or lake.
15. Preparation shall be made so that runoff from steep, erodible surfaces will be diverted into stable areas with little erosion potential. Frequent water checks shall be placed on dirt roads, cut tracks, or other work trails to control erosion.
16. Wash water containing mud or silt from aggregate washing or other operations shall not be allowed to enter a lake or flowing streams.
17. a) A silt catchment basin shall be constructed across the stream immediately below the project site. This catchment basin shall be constructed of gravel which is free from mud or silt.  
b) Upon completion of the project and after all flowing water in the area is clear of turbidity, the gravel along with the trapped sediment shall be removed from the stream.
18. If operations require moving of equipment across a flowing stream, such operations shall be conducted without substantially increasing stream turbidity. For repeated crossings, the operator shall install a bridge, culvert, or rock-fill crossing as specified in comments below.
19. If a stream channel has been altered during the operations, its low flow channel shall be returned as nearly as possible to its natural state without creating a possible future bank erosion problem, or a flat wide channel or sluice-like area. If a lake margin has been altered, it shall be returned as nearly as possible to its natural state without creating a future bank erosion problem. The gradient of the streambed or lake margin shall be as nearly as possible the same gradient as existed prior to disturbance.
20. Structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water mark before such flows occur.
21. No debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, oil or petroleum products or other organic or carbon material from any logging, construction, or associated activity of whatever nature shall be allowed to enter into or placed where it may be washed by rainfall or runoff into waters of the State. When operations are completed, any excess materials or debris shall be removed from the work area. No rubbish shall be deposited within 150 feet of the high water mark of any stream or lake.
22. The operator will notify the Department of Fish and Game of the date of commencement of operations and the date of completion of operations at least five days prior to such operations.



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**COUNTY OF SONOMA**  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

2550 Ventura Avenue, Santa Rosa, CA 95403  
(707) 527-1900 FAX (707) 527-1103

*Field Operations • Code Enforcement • Permits • Environmental & Comprehensive Planning*

## Development Submittal Information for Drainage Review

Please type or print the following information:			
Name of Development:		Bridge #2 over Miller Creek	
Property Address: 4400 Geysers Road		City, Zip Geyserville, CA	
Nearest Cross Street: Red Winery Road			
Assessor's Parcel Number: 131-040-017		Developer:	
Design Engineer: Jeff Morris		Applicant Name: Kendall-Jackson	
Address:		Address: Julie Collins	
City, State, Zip: Ukiah, CA		City, State, Zip: 421 Aviation Blvd.	
Phone No.: (707) 463-1243		Phone No.: Santa Rosa, CA 95403	
Land Use (Planning) File #:		Permit Application # B143159	
Number of Units:		Area:	
Ⓢ To Be Completed by Drainage Review (527-3605) Ⓢ			
File/Uniqua #:		Quad Maps:	
Major Dev. (MJS/UP/DR):		Permit Referral:	Flood Zone:
Minor Dev. (MNS/UP/DR):		Public Project:	
Fee based on: _____ minimum, _____ Units @ _____ per unit = _____			
Permit Referral Fee: _____		Flood Zone Fee _____	Date: _____ Receipt #: _____
MJS/UP/DR Fee:		Amount	Date
Base/minimum		_____	_____
Balance or Total		_____	_____
Review Engineer/Technician:		Final Letter Date:	
Comments:			

# YES!

YOUNG ENGINEERING SERVICES  
GEOTECHNICAL CONSULTANTS  
132 Boas Drive • Santa Rosa, CA 95409-3611 • (707) 538-7503 • (FAX) 539-8227

10  
e-mail gyoung@sonic.net

July 1, 1997

Job 72901

Kendall-Jackson, Corporate Development  
421 Aviation Boulevard  
Santa Rosa, California 95403

Attention: Ms. Julie Collins

Gentlemen:

Consultation - Site Review, 3 Bridges  
Consultation - Plan Review

B-143158	→ #1, South Fork of Miller Creek 4400 Geysers Road, APN 131-120-011
B-143159	→ #2, Middle Fork of Miller Creek 4400 Geysers Road, APN 131-120-011
B-143242	→ #3, Crossing at Yellow Jacket Creek 16745 Highway 128, Knights Valley Sonoma County, California

This letter presents the consultation that Young Engineering Services (YES!) has provided at your request in connection with the referenced property. It is our understanding that our reconnaissance and review are desired to evaluate the gross stability of the lot, with emphasis on the development of a planned building envelope on slope near the topographic high of the parcel. Our consultation consisted of site and file review related to geotechnical hazards.

A representative of this office reviewed the site and vicinity of proposed Bridges 1 through 3 on May 9 and Bridge 3 on May 12, 1997, in the presence of Jeff Morris, project engineer. In addition to our reconnaissance, we reviewed data in our files which included: 1) the California Division of Mines and Geology (CDMG) Special Report 120, entitled Geology for Planning in Sonoma County, dated 1980; 2) the CDMG Regional Geologic Map of Santa Rosa, dated 1982; and 3) the CDMG Special Studies Zone (Alquist-Priolo) mapping, dated July 1, 1983.

The sites are located as follows: Bridge #1, South Fork of Miller Creek, 4400 Geysers Road, APN 131-120-011, about 3.5 miles east of Geyserville; Bridge #2, Middle Fork of Miller Creek, 4400 Geysers Road, APN 131-120-011, about 3.5 miles east of Geyserville; Bridge #3, Crossing at Yellow Jacket Creek, 6745

## YOUNG ENGINEERING SERVICES

Highway 128, about 3 miles southwest of Mount Saint Helena, in Knights Valley, all in Sonoma County, California.

The soil cover at each site (gravelly silt/silty gravel at sites 1 and 2; silty gravel and cobbles at site 3) is estimated to have "very low to low expansion potential" (tendency to undergo volume changes with changes in moisture content) per Uniform Building Code (UBC) classification. The weathered bedrock is dense to very dense shale (silty gravel) at sites 1 and 2; silty gravel and cobbles, with cementation at site 3. These bearing materials have negligible expansion potential, at least moderate strength relative to the proposed development, and are resistant to scour. Minor seepage was noted at several of the abutment locations.

Bridge	Abutment	Footing	Existing Ground	Weathered Rock	Seepage noted
Bridge-1	Abut-1	893.0	899.0	896.0	seepage
	Abut-2	891.0	897.4	891.0	--
Bridge-2	Abut-1	888.0	895.5	891.0	--
	Abut-2	893.0	899.0	896.0	seepage
Bridge-3	Abut-1	578.0	584.6	580.0	seepage
	Abut-2	580.0	585.6	582.0	seepage

### Discussion - Conclusions

The sites are relatively stable, and the projected depth of potential scour is estimated to be one to three feet at each of the sites during the next 50 to 100 years. The main geotechnical considerations pertinent to the development of the sites are the excavation characteristics, presence of seepage, and potential for scour.

There are no known active faults within the immediate site vicinity; the site is not within an Alquist-Priolo Special Studies Zone relating to fault hazard potential. The closest active faults to the Miller Creek sites are the (northerly terminus of the) Healdsburg-Rodgers Creek Fault, located approximately 5 miles to the southwest, the San Andreas Fault, located approximately 26 miles to the southwest, and the Maacama Fault is projects between through the valley floor between the bridge sites. For the Yellow Jacket Creek sites, these faults are 8, 29 and 5 miles to the southwest, respectively

### Recommendations

In general, the site is stable, and support can be achieved at shallow depth in the bedrock which underlies this site. These concerns are discussed in more detail as follows.

Site Grading. Grading is expected to be limited to any fill

## YOUNG ENGINEERING SERVICES

or backfill associated construction of the new abutments and the approach ramps, and should generally conform to Chapter 33 (Chapter 70, pre-1994) of the Uniform Building Code (UBC). The site should be cleared of any rubbish and debris materials. These materials should be removed, and disposed of off the site. The surface soils containing grass and roots should be stripped from all areas to be graded. The surface soils should be scarified to a depth of at least eight inches, moisture conditioned to near optimum moisture content, and compacted to at least 90 percent relative compaction per ASTM D1557. (Relative compaction refers to the in-place dry density of a soil expressed as a percentage of the maximum dry density of the same soil when determined by the ASTM D1557 compaction procedure. Optimum moisture is the water content percentage of the dry weight which corresponds to the maximum dry density.) Any areas not achieving compaction should be removed and replaced as engineered fill. All fill material should be free of any debris, organic matter, and oversize (four inch or larger dimension) rocks, and should be approved by a representative of YES! before it is placed. Any imported fill should be approved by a representative of YES!, and in building areas, be of relatively low expansion potential (i.e., Expansion Index of about 30 or less), and in pavement areas, a Stabilometer Resistance Value (R-Value) of 20 or more. All fill should be placed to at least 90 percent relative compaction; 95 percent at subgrade and structural section.

**Footings.** Foundation support for the planned bridges can be established on conventional spread footings, providing that such footings penetrate through the weaker topsoil and bedload debris soil units. The footing elements should penetrate at least 18 inches into the weathered bedrock; this depth should be considered a minimum for planning purposes. Footings so established may be assigned soil bearing pressures of 4000 pounds per square foot (psf, net at ground line) achieved entirely in the weathered bedrock (as identified during construction by a representative of YES!) for dead plus live loads, with a one-third increase allowable for wind and/or seismic forces.

Footing foundations are to be stepped into the slope so that they have a lateral confinement of at least 10 foot from the face of the slopes, or a theoretical two foot horizontal to one foot vertical (2H:1V) plane projected up from the toe of the slope, whichever controls. Topsoil and channel load debris will not be considered as a part of this confinement. Minimum tread length of steps should be 24 inches. Maximum step height should be limited to 18 inches without specific consideration of the project structural engineer.

Wing walls for the structures are anticipated to be typical cantilever design retaining walls, ranging from nominal height to full abutment height adjacent the bridge abutments. It is anticipated that such walls will have some freedom to deflect under applied loads.

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Retaining Walls. It is our understanding that the planned abutments are to be restrained through opposing forces applied through the bridge deck, and retaining wall overturning design forces will not require consideration. If such design were required, an appropriate equivalent fluid pressure (EFP) of 55 pounds per cubic foot (pcf) would be appropriate for at-rest earth pressures (for walls "fixed", or unable to rotate), assuming fully drained walls utilizing select low expansive soils for backfill. 13

Lateral Loads. Resistance to lateral loads can be obtained using a combination of passive earth pressure against the base of foundations and frictional resistance against the face of footing elements. An allowable passive earth pressure of 700 pcf (triangular distribution), and frictional resistance of 0.40 times the net vertical dead load, can be used in design. Passive pressure should be neglected within 12 inches of pad grade, unless the surface is confined by slabs or pavement, and within 10 feet of the face of the exterior slopes.

Site Drainage. Assurance of drainage could be provided by burlap wrapped, clean free draining aggregate behind weep holes; a blanket of Permeable Materials (per Section 68 of Caltrans Standard Specifications); a blanket of coarse, granular soil (per gravel or  $\frac{3}{4}$  inch drain rock separated from the general embankment backfill be a geotextile filter fabric (Mirafi 140 or equal); or a composite drain system (e.g., Miradrain, Amerdrain, or equal) is well suited for footings poured "neat" (without forming), and should be placed along the upslope wall of the footing excavation prior to concrete pour. Weep holes should be at least 6 feet on center horizontal, and 3 feet on center vertical. We have appended Retaining Wall Details for more specific information.

Asphalt Paved Areas. Where fills are necessary within paved areas, they should conform to the previous Fill Quality recommendations, and be compacted to at least 90 percent relative compaction, with 95 percent relative compaction achieved at pavement subgrade. Prior to subgrade preparation, utility trench backfills should be placed and compacted in accordance with the governing specifications. The upper six inches of subgrade soils should then be moisture conditioned to near optimum moisture content, and be compacted to at least 95 percent relative compaction. Finished subgrade surfaces should be maintained moist and free of shrinkage cracks until covered by permanent construction.

Aggregate Base, and Subbase if used, should conform to the requirements of the State of California "Caltrans" Standard Specifications, latest edition. Aggregate base courses should be placed in thin lifts in a manner to prevent segregation, moisture conditioned as necessary, and compacted to at least 95 percent relative compaction to provide a smooth, unyielding surface.

Footing support for the retaining walls is available as

## YOUNG ENGINEERING SERVICES

indicated above for typical wall footings. It would be prudent for upslope wall lines to be designed to retain slough to about 2 feet deep. An appropriate Equivalent Fluid Pressure (EFP) for use in design of such walls would be 36 pounds per cubic foot (pcf) with a level backslope, and 50 pcf with the natural superjacent slope. As active earth pressure assumes that relative movement will occur between the wall and the backfill, backfill should be completed prior to completion of the framing tie-in. 14

The retaining wall backdrain should be prevented from clogging. This may be most readily accomplished by separating the aggregate backfill from the adjacent soil by incorporation of a geotextile filter fabric (Mirafi 140, Supac 4NP, or equal). Refer to the Retaining Wall Details attached as Plate 1 for more detailed information.

Seismicity. The site will be subjected to strong ground shaking during future, nearby, large magnitude earthquakes. Generally, structures founded in firm soil and/or bedrock can be expected to be subjected to short period, jarring motions, with little or no ground wave amplification. Structures founded in firm soil, and designed in accordance with current earthquake resistant building codes (UBC), are well suited to resist the effects of strong ground shaking. On the basis of the data reviewed, we do not believe the site seismicity to be an overriding geologic hazard, and no additional geologic or engineering geologic studies appear warranted.

### Plan Review

Our review of the plans dated May 20, 1997 by Morris Engineering, was for conformance with the project guidelines as outlined above, together with typical good practice consistent with our knowledge of the site conditions. Our review were favorable, and no additional considerations are indicated.

### Additional Considerations

Our review of construction excavations is considered an integral part of our review for this residence. Please call when the excavation has been scheduled so that we can coordinate with the contractor to provide the necessary reviews. Our construction period observations would allow us to verify conformance of the work to project guidelines, determine that the soil conditions are as anticipated, and to modify our recommendations, if necessary.

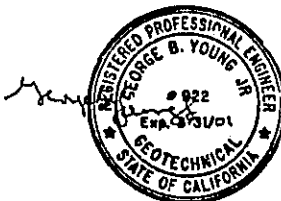
We have enjoyed this opportunity to be of service. Please do not hesitate to call if we can be of further assistance.

YOUNG ENGINEERING SERVICES

Very Truly Yours,

YOUNG ENGINEERING SERVICES

15



George B. Young, Jr.  
Civil Engineer - 27405  
Geotechnical Engineer - 922

4 copies submitted  
cc: Morris Engineering

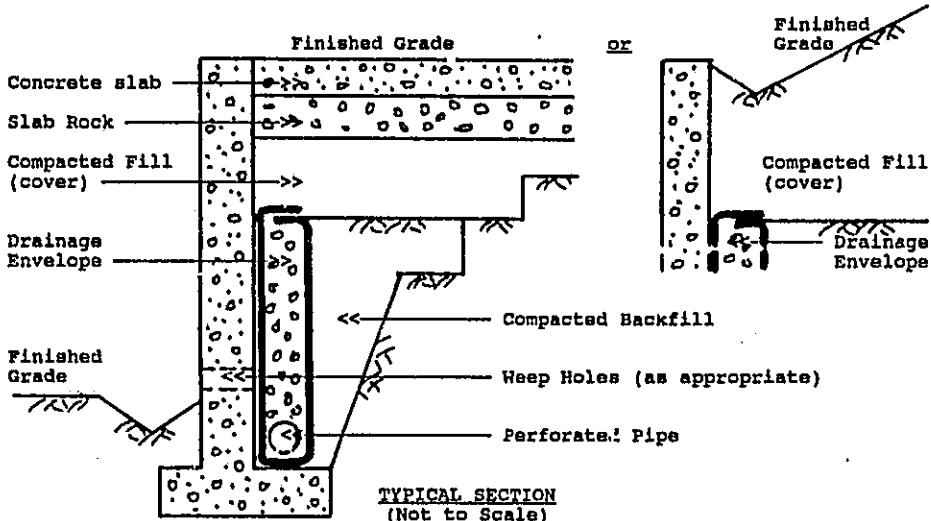
Attachments: Plate 1 - Retaining Wall Details

# YES!

## RETAINING WALL DETAILS

Miller and Yellow Jacket Creek Bridges  
Sonoma County, California

116



### Notes:

1. Compacted Fill (cover). The drainage envelope should be capped by a compacted soil cover a minimum of 12 inches thick. This cover blanket may be omitted where the surface is paved.
2. Drainage Envelope. To minimize potential for clogging of retaining wall drainage, the drainage envelope should also be separated from the soil by use of a Geotextile Filter Fabric (Mirafi 140NF or equal).  
or utilize a select Permeable Material (per Section 68 of Caltrans Standard Specifications) for backfill.  
or utilize a Composite Geosynthetic Drainage System (Miradrain or equal). To relieve this drainage envelope, a perforated pipe and typical drainage envelope (drain rock wrapped in geotextile filter fabric, or perforated pipe wrapped in the composite fabric) should be in contact with the ends of the drain for a distance of at least 5 feet.
3. Perforated Pipe. The perforated pipe should conform to the requirements of Section 68 of Caltrans Standard Specifications, perforations placed down, sloped at least one percent to drain to a gravity outlet.  
or Weep Holes. Where water draining in front of the wall is acceptable, weep holes should be placed at six foot spacing. Weep holes can consist of 2 inch PVC cut to fit within the foundation stem wall, with the ends wrapped in hardware cloth (one-quarter inch sieve openings) to minimize clogging, and prevent access from rodents.
4. Compacted Backfill. The compacted backfill should be keyed and benched into the backslope. The width and location of benches are approximate, and will be determined in the field by a representative of ISSI.
5. Surface drainage is to be provided at the toe of the retaining wall.

B143158 & B143159 17 (1)

# MORRIS ENGINEERING

817 DORA  
AVENUE

(707) 463-1243  
FAX 463-1041

UKIAH, CA  
95482

## HYDROLOGY / HYDRAULICS

FOR:  
KENDALL - JACKSON  
WINERY AND VINEYARDS  
421 AVAITION BOULEVARD  
SANTA ROSA, CA. 95403  
(707) 544-4000 PHONE  
(707) 544-4013 FAX  
ATTN: JULIE COLLINS,  
CORPORATE DEVELOPMENT

BY:  
MORRIS ENGINEERING  
817 DORA AVE.  
UKIAH, CA 95482  
(707) 463-1243



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## REFERENCES

DATE: 4/1/97  
JOB NO: 97-10  
SHEET # T1 OF 1  
CHECKED: BY:

1. U.S.G.S. 7.5 MINUTE QUAD SHEETS  
JIMTOWN. MOUNT SAINT HELENA. DETERT RESERVOIR QUAD SHEETS
2. MISC. INFORMATION FROM S.C.W.A. "FLOOD CONTROL DESIGN CRITERIA"  
REVISED AUGUST, 1983
3. SONOMA COUNTY MEAN SEASONAL PRECIPITATION (S.C.W.A. APRIL 1964)
4. S.C.W.A. I - D - F CHART. K-FACTOR CHART. G-FACTOR CHART

## SHEET INDEX

SHEET NO.

HYDROLOGY & HYDRAULIC CALCULATIONS TITLE SHEET . . .	T1
BRIDGE #1 & #2 - (Miller Creek South and Middle Fork) . . .	M1 - M6
BRIDGE #3 - (Yellowjacket Creek near Kellog Creek) . . .	Y1 - Y4
APPENDIX . . . . .	A - D

18

# MORRIS ENGINEERING

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DATE: 4/97  
JOB NO: 97-10  
SHEET # M2 OF 6

CKD: \_\_\_\_\_ DATE: \_\_\_\_\_

MILLER CREEK - SOUTH FORK B-143158

## HYDROLOGY CALCULATIONS

\* MEAN SEASONAL PRECIP = 40" - 45"  
SK = 1.5

### AREAS:

	<u>AREA</u>	<u>DISTANCE</u>	<u>ELEV.</u>
S1	132 AC	2500	1925
S2	132 AC	2600	1320
S3	105 AC	1800	960
			800
	EA = 369 ✓	ED = 6900	

MILLER CREEK - MIDDLE FORK B-143159

## HYDROLOGY CALCULATIONS

\* MEAN SEASONAL PRECIP = 40" - 45"  
SK = 1.5

	<u>AREA:</u>	<u>AREA:</u>	<u>DISTANCE:</u>	<u>ELEV.</u>
M1	186		3400	2100
M2	91		2200	1320
M3	37		2000	1080
				960
	EA = 314		ED = 7600	





# MORRIS ENGINEERING 21

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DATE: 4/27  
JOB NO: 02-10  
SHEET # 15 OF 6

## MILLER BRIDGES # 1 & 2 HYDRAULICS

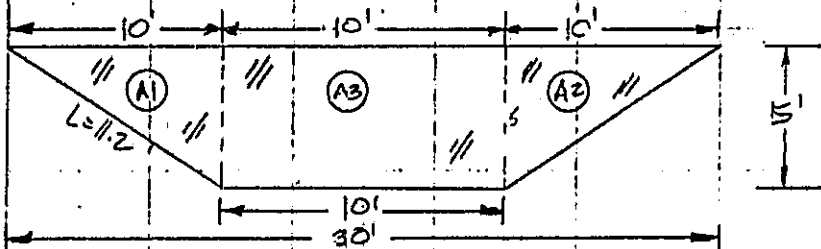
CKD: \_\_\_\_\_ DATE: \_\_\_\_\_

B-14315Y

~~B-14315Y~~

### BRIDGE #1:

APPROX. SLOPE @ SITE (FROM QUAD. SHEET)  
= 80'/2600' = .0307 (SAF .01)



$$A1 = (.5)(10)(5) = 25 \text{ SFV}$$

$$A_{PT} = 100 \text{ SFV}$$

$$A2 = 25 \text{ V}$$

$$P_{PT} = (2)(11.2) + 10 = 32.4 \text{ FT.}$$

$$A3 = (10)(5) = 50 \text{ SFV}$$

$$R_H = \frac{A}{P} = 100 / 32.4 = 3.1 \text{ V}$$

$$Q_{TOT} = (A) \left( \frac{1.49}{n} \right) (R_H)^{2/3} (S)^{1/2}$$

$$\left[ \begin{array}{l} A = 100 \\ P_H = 3.1 \\ S = .01 \end{array} \right]$$

$$Q = \frac{68.3}{n}$$

FOR:  $U =$

$Q =$

$V = Q/A$

.03

2280 CFS

22.8' FEED (100 FEET)

.06

1138

11.4' " " "

.10

683 > 548 CFS

6.82' " " " " " " " " " " " "

is O.K.

# MORRIS ENGINEERING 22

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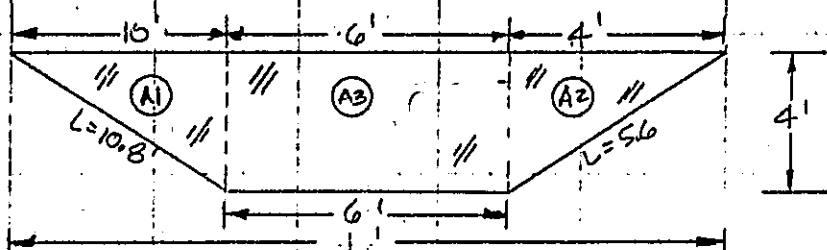
DATE: 9/97  
JOB NO: 97-10  
SHEET # 1/6 OF 6

CKD: DATE:

## MULEZ BRIDGES I & 2 HYDRAULICS

BRIDGE #2: 8-143159

APPROX. SLOPE @ SITE (FROM QUAD. SHEET)  
= 80/10000 = .008 ✓ (SAY .01)



$A_1 = (.5)(10)(4) = 20 \text{ SF}$   
 $A_2 = (.5)(4)(4) = 8 \text{ SF}$   
 $A_3 = (6)(4) = 24 \text{ SF}$

$A_{TOT} = 52 \text{ SF}$   
 $P_{TOT} = 10.8 + 6 + 5.6 = 22.4 \text{ FT}$

$R_H = \frac{A}{P} = 52 / 22.4 = 2.32 \checkmark$

$Q_{TOT} = (A) \left( \frac{1.49}{n} (R_H)^{2/3} (S)^{1/2} \right)$

A = 52
R <sub>H</sub> = 2.32
S = .01

$\Rightarrow Q = \frac{29.3}{11}$

FOR:  $n =$   
 .06

$Q =$   
 488.3 CFS > 410 CFS OK.

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23

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95482

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FAX 463-1041

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DATE: 4/97  
JOB NO: 97-10  
SHEET # 12 OF 4

CKD: \_\_\_\_\_ DATE: \_\_\_\_\_

## YELLOWJACKET CREEK NEAR KELLOGG CREEK

### HYDROLOGY CALCULATIONS

\* MEAN SEAS. PRECIP = 55 @ TOP  
40 @ BOTTOM

$K @ TOP = 1.8$

$K @ BOT. = 1.3$

<u>ELEV.</u>	<u>AREAS</u>	<u>AREA</u>	<u>DIST.</u>
4350	Y1	100	1900
3100	Y2	378	3500
1920	Y3	287	2800
1400	Y4	417	4200
880	Y5	113	1500
780	Y6	100	5200
580			

$\Delta EL = 3770$

$EA = 1395$

$ED = 19,100$

24

RATIONAL METHOD DRAINAGE STUDY

By JSM Date 4/97 Subject YELLOWJACKET CREEK NEAR KELLOGG CR. Sheet No. 43 of 4  
 Chd. By \_\_\_\_\_ Date \_\_\_\_\_ Storm Freq. % 100 yr. Job. No. 92-10

Point of Conc.	Area	EL Distance	Slope	v	Time of Conc. (in minutes)		i	K	C	ΔA A Total	KΔAC	ΣKΔAC	Q	Design	Remarks
					Travel Time	Total Time									
		4350													
1	Y1	3100 100	.66v	20	15 MIN	INITIAL	2.4	1.8	.45	100	81				
2	Y2	1920 3500	.34v	15	3.8	18.8v	2.2	1.7	.45	378 478	289	370v	814		OPEN CHANNEL
3	Y3	1400 2800	.19v	10	4.7	23.5v	1.9	1.6	.45	287 765	207	577v	1096		
4	Y4	880 4200	.12v	10	7.0	30.5v	1.7	1.5	.45	417 1192	282	859v	1460		
5	Y5	780 1500	.07v	5	5.0	35.5v	1.5	1.4	.45	113 1295	71	930v	1395		
6	Y6	580 5000	.04v	5	17.3	52.8v	1.3	1.3	.45	100 1595	59	989v	1786		SAY 1300

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25

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DATE: 4/97  
JOB NO: 97-10  
SHEET # Y4 OF 4

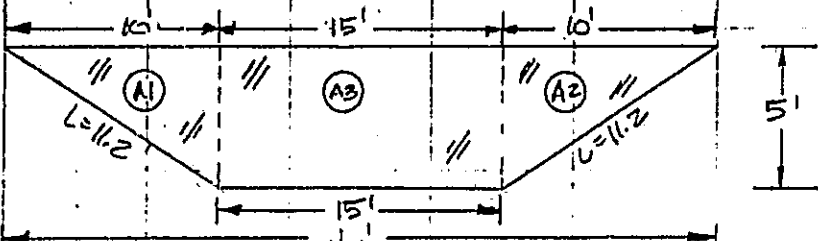
B-143242

CKD: \_\_\_\_\_ DATE: \_\_\_\_\_

## YELLOW JACKET CREEK BRIDGE HYDRAULICS

### BRIDGE #3:

APPROX. SLOPE @ SITE (FROM QUAD. SHEET)  
= 80/3000 = .0267 ✓ (SAY .01)



$$A1 = (.5)(5)(10) = 25 \text{ SF}$$

$$A2 = 25$$

$$A3 = (5)(15) = 75 \text{ SF} \checkmark$$

$$A_{TOT} = 125 \text{ SF}$$

$$P_{TOT} = (2)(11.2) + 15 = 37.4 \text{ FT} \checkmark$$

$$R_H = \frac{A}{P} = 125 / 37.4 = 3.34 \checkmark$$

$$Q_{TOT} = (A) \left( \frac{1.49}{n} \right) (R_H)^{2/3} (S)^{1/2} \left[ \begin{array}{l} A = 125 \\ R_H = 3.34 \\ S = .01 \end{array} \right] \Leftrightarrow Q = \frac{89.6}{n}$$

FOR: n =

.04

.06

Q =

2240 CFS

1494 CFS > 1300 CFS ✓

& O.K.

V =

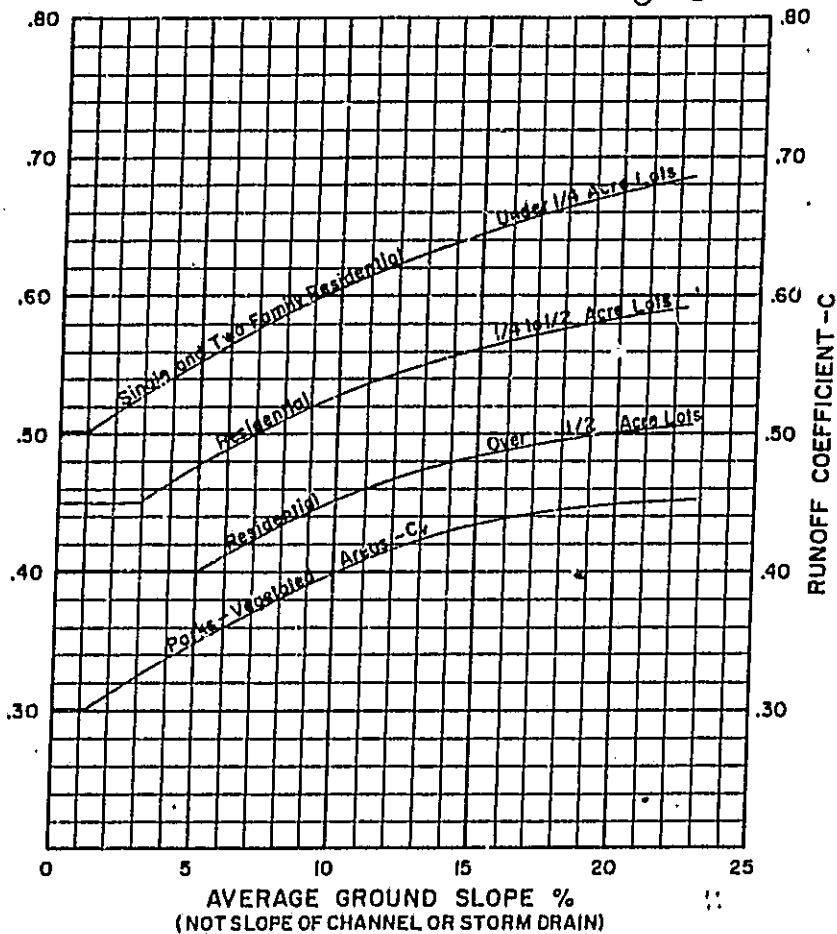
17.9 FT/SEC

12 FT/SEC

DATE: 7/96  
 JOB NO: 97-10  
 SHEET # B OF APPX

RUNOFF COEFFICIENTS  
 FOR  
 RATIONAL FORMULA

26



NOTE: Commercial, Industrial & Multiple Residential Areas

$C_p = 0.9$  (Based on paving, roofs, etc.)

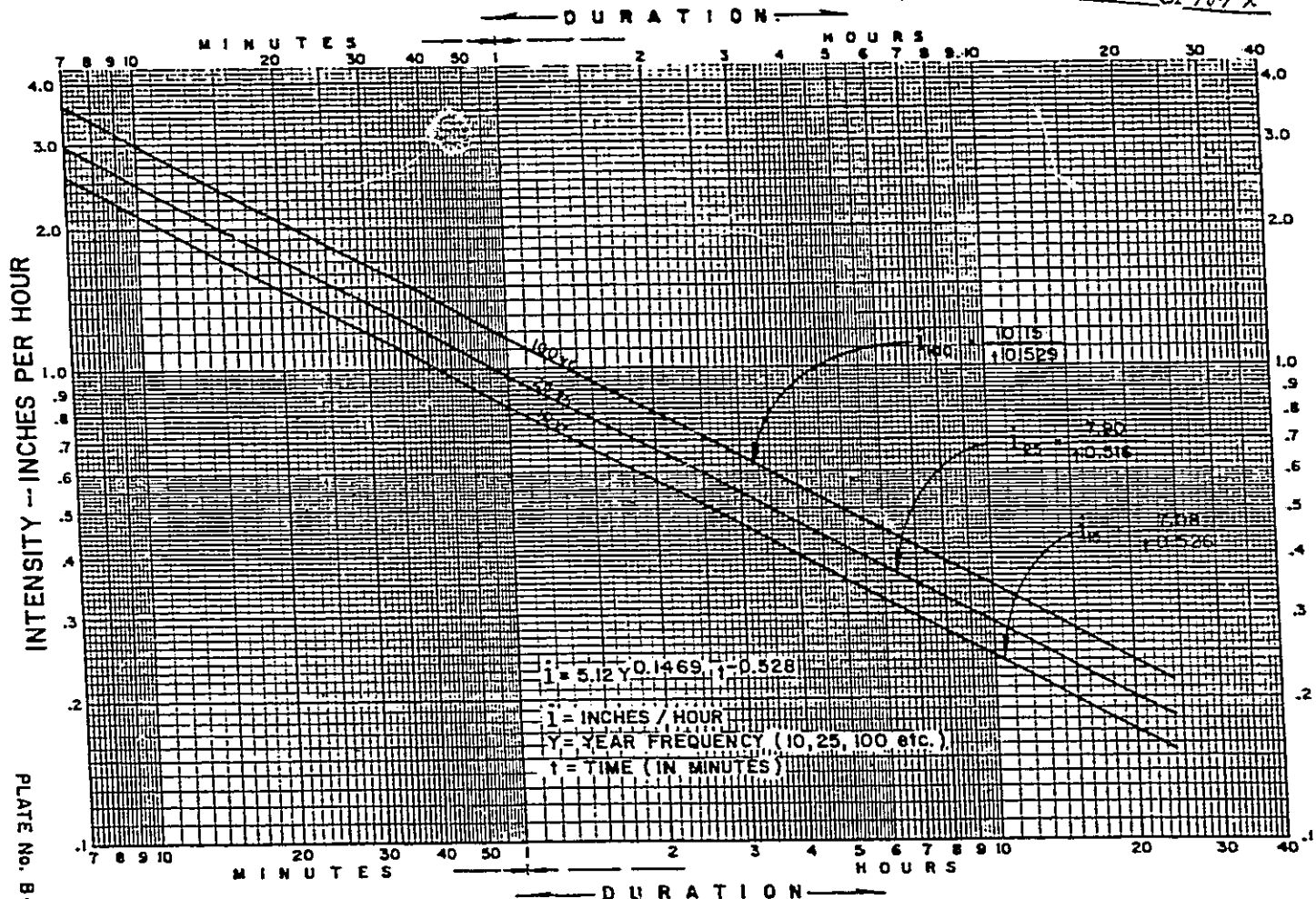
When vegetated area exceeds 20% of total,  $C_v$  from vegetated curve may be used to reduce above  $C_p$  as follows:

$$C_r = C_v \frac{A_v}{A_r} + C_p \frac{A_p}{A_r}$$

SONOMA COUNTY WATER AGENCY

DATE: 7/26  
 JOB NO: 97-10  
 SHEET # C OF APPX

27

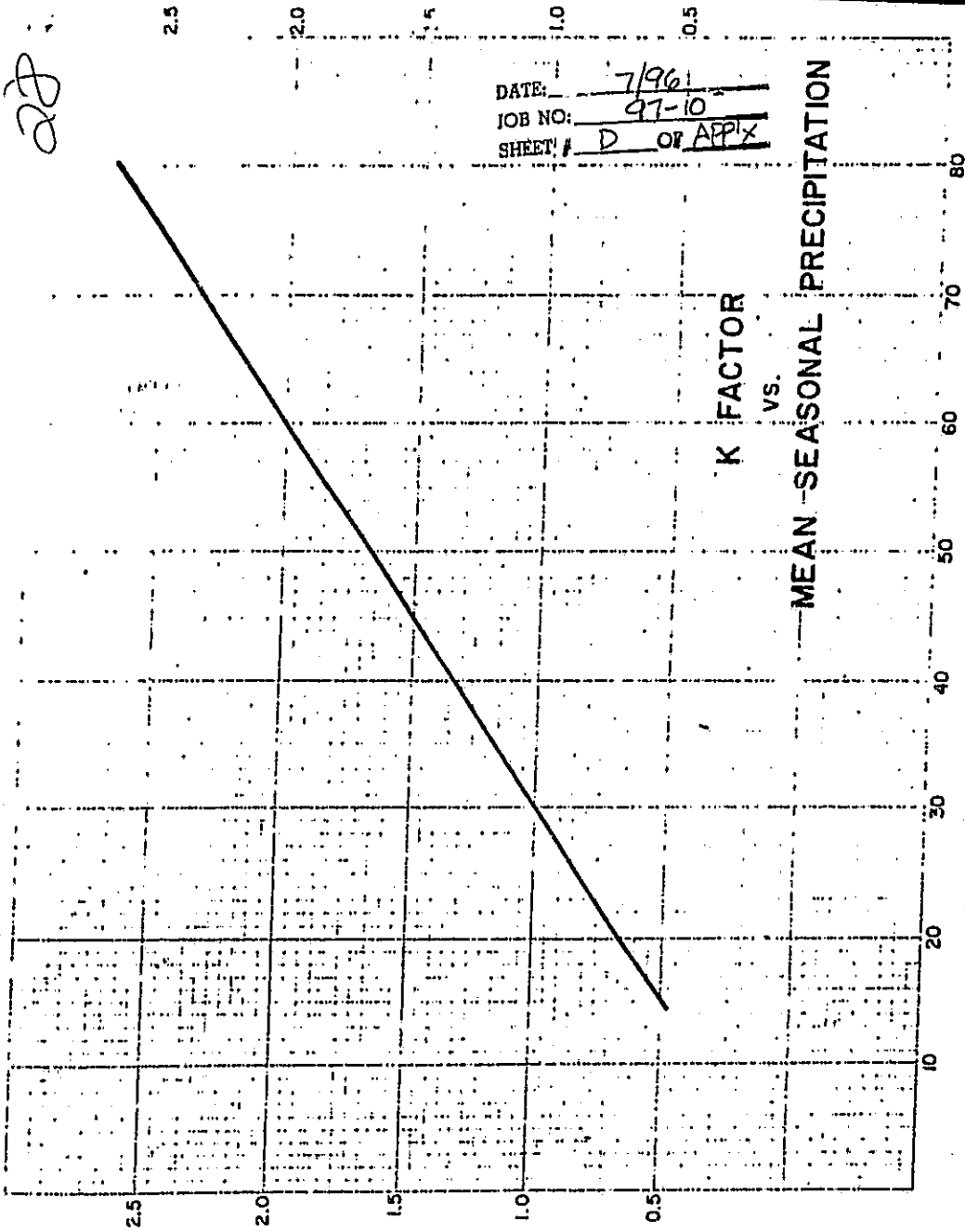


1961 DRY A32

PLATE No. B-2

NOTE: THE INFORMATION SHOWN IS SUBJECT TO ANNUAL REVISION AS ADDITIONAL RAINFALL

**RAINFALL**  
 INTENSITY vs DURATION



DATE: 7/96  
 JOB NO: 97-10  
 SHEET # D OF APPX

28

K FACTOR  
 VS.  
 MEAN SEASONAL PRECIPITATION

MEAN SEASONAL PRECIPITATION - INCHES

K FACTOR

2-66



**COUNTY OF SONOMA** 29  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

2550 Ventura Avenue, Santa Rosa, CA 95403  
(707) 527-1900 FAX (707) 527-1103

Field Operations • Code Enforcement • Permits • Environmental & Comprehensive Planning

Miller CREEK - AREA Check  
H&H CALL'S SHEET #1 OF 6 B-143158

Morris Engineer

$$S_1 \quad 2400 \times 2400 = 5,760,000 \text{ SF} \div 43,560 = 132.$$

132.

$$S_2 \quad 2400 \times 2200 = 5,280,000 \div \text{"} = 121.$$

132

$$S_3 \quad 2400 \times 1900 = 4,560,000 \div \text{"} = 105$$

105

B143158 & B143159

Notification No. 253-97 THP No. \_\_\_\_\_

AGREEMENT REGARDING PROPOSED STREAM OR LAKE ALTERATION

30

THIS AGREEMENT, entered into between the State of California, Department of Fish and Game, hereinafter called the Department, JULIE COLLINS REP KENDALL-JACKSON of SANTA ROSA, State of CALIF, hereinafter called the operator, is as follows:

WHEREAS, pursuant to Division 2, Chapter 6 of California Fish and Game Code, the operator, on the 24TH day of MARCH, 1997, notified the Department that he intends to substantially divert or obstruct the natural flow of, or substantially change the bed, channel, or bank of, or use material from the streambed of, the following water: MILLER CREEK, in the County of SONOMA, State of California, S. T. R.

WHEREAS, the Department (represented by JERRY BOESEL, WARDEN) has made an inspection of subject area on the \_\_\_\_\_ day of PREVIOUS, 19\_\_\_\_, and) has determined that such operations may substantially adversely affect existing fish and wildlife resources including: TROUT, SALMON, STEELHEAD, NON-GAME AQUATIC SPECIES

THEREFORE, the Department hereby proposes measures to protect fish and wildlife during the operator's work. The operator hereby agrees to accept the following recommendations as part of his work: Numbers 1, 2, 3, 4, 18, 19, 20 & 21 (SEE BACK), from the list of recommendations on the back of this page and the following special recommendations:

- 1. All work in or near the stream or lake shall be confined to the period APRIL 21, 1997 THRU OCTOBER 31, 1997.

PROJECT LOCATION: 4400 GEYSERS ROAD / 3.5 MILES NORTHEAST OF GEYSERVILLE. PROJECT IS TO CONSTRUCT TWO PAILCAR STREAM CROSSINGS. CROSSING NUMBER 1 CROSSES THE SOUTH FORK OF MILLER CREEK AND CROSSING NUMBER 2 CROSSES THE MIDDLE FORK OF MILLER CREEK. THE FOLLOWING PERTAINS TO BOTH CROSSINGS: (1) THE NUMBERED RECOMMENDATIONS LISTED ABOVE SHALL BE ADHERED TO AND; (2) TEMPORARY CROSSINGS MAY BE INSTALLED DURING THE NORMAL LOW SUMMER FLOW SEASON OF 1997 TO ALLOW PASSAGE DURING BRIDGE CONSTRUCTION AND; (3) THE TEMPORARY CROSSINGS SHALL INCORPORATE CMP OR OTHER SUITABLE MATERIAL CAPABLE OF ALLOWING 100% OF WATER PASSAGE AND; (4) STREAMBED GRAVEL INDIGENOUS TO THE SITE MAY BE UTILIZED AS FILL FOR THE TEMPORARY CROSSINGS AND; (5) THE TEMPORARY CROSSINGS SHALL BE REMOVED BY OCTOBER 31, 1997 AND; (6) ALL STRUCTURES CONSTRUCTED WITHIN THE STREAM CHANNEL SHALL CONFORM TO THE PLANS AND SPECIFICATIONS ESTABLISHED BY MORRIS ENGINEERING DATED 4/1/97, JOB #97-10 AND; (7) A COPY OF THIS AGREEMENT SHALL BE KEPT AVAILABLE ON THE JOBSITE DURING ALL PHASES OF CONSTRUCTION AND; (8) A COPY OF THIS AGREEMENT SHALL BE PROVIDED TO ALL CONTRACTORS, SUB-CONTRACTORS AND OTHERS DOING WORK PRIOR TO COMMENCEMENT OF SUCH WORK AND; (9) THE STRUCTURES SHALL NOT ENDOURCH UPON THE CARRYING CAPACITY OF THE STREAM CHANNEL.

The operator, by the signature of the operator, shall be responsible for the execution of the terms of this agreement. A copy of this agreement must be provided to contractors and subcontractors and must be in their possession at the work site.

If the operator's work changes from that stated in the notification specified above, this agreement is no longer valid and a new notification shall be submitted to the Department of Fish and Game. Failure to comply with the provisions of this agreement and with other pertinent Code Sections, including but not limited to Fish and Game Code Sections 5650, 5652 and 5948, may result in prosecution.

Nothing in this agreement authorizes the operator to trespass on any land or property, nor does it relieve the operator of responsibility for compliance with applicable federal, state, or local laws or ordinances.

THIS AGREEMENT IS NOT INTENDED AS AN APPROVAL OF A PROJECT OR OF SPECIFIC PROJECT FEATURES BY THE DEPARTMENT OF FISH AND GAME. INDEPENDENT REVIEW AND RECOMMENDATIONS WILL BE PROVIDED BY THE DEPARTMENT AS APPROPRIATE ON THOSE PROJECTS WHERE LOCAL, STATE, OR FEDERAL PERMITS OR OTHER ENVIRONMENTAL REPORTS ARE REQUIRED.

This agreement becomes effective on APRIL 21, 1997

Operator Julie Coller  
Project Manager  
Organization Kendall-Jackson  
Date 4-18-97

Jerry Boesel  
Department Representative  
THE FISH & GAME WDN, ENVIRONMENTAL PROJECTS  
Department of Fish and Game, State of California  
Date APRIL 17, 1997

# COUNTY OF SONOMA

## PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA

(707) 527-1900

FAX (707) 527-1103

31

**PLANCHECK RECEIPT ONLY - NOT A PERMIT** **B-143158**

Address: 4400 GEYSERS PD GEY

Printed: 15:26 Jun 26, 1997

APN: 131-040-017

Cross Street: RED WINERY RD

In Planchek: 00/00/0000

Res/Com: C

Activity Type: B-BLD 9601

Std/Quick: S Fire District: ....

Insp Area:

Tax Rate Area: 097020

<p>Owner  <b>JACKSON JESS S JR TR ET AL</b>                  421 AVIATION BLVD                  SANTA ROSA CA 954031069</p>	<p>Applicant  <b>JULIE COLLINS-KENDALL-JACKSON</b>                  421 AVIATION BLVD                  SANTA ROSA CA 95403                  707 547 4763</p>
---	--

Description: RAIL CAR BRIDGE OVER MILLER CREEK - BRIDGE #1

Planchek Expires: 00/00/0000

Initialized By: CNIEDERM Approved By: Status: APPLIED

Planchek Multiplier: 1.00

Occupancy

Type

Factor	Sq. Feet	Valuation
Subtotal:		.00
Multiplier 1.00:		.00
Addl Fixed Amount:		80,000.00
<b>Total Valuation:</b>		<b>80,000.00</b>

Table Date: 07/01/1996

Item #	Item Account Code	Description	Fee	Previously Paid
0060	025619-1341	BLDG PERM PLAN CHECK FEE	\$383.13	\$ .00
0100	025619-1341	SITE REVIEW/ELEV. CERT.	\$54.00	\$ .00
0121	025619-1341	FIRE SAFE STDS/REF FEES	\$60.00	\$ .00
0707	025627-3140	REF.-GRADING/DRAIN. PLAN	\$ .00	\$ .00
0708	025627-3140	REF.-GRD/DRAIN DAM/DRVWY	\$ .00	\$ .00
5060	025619-1341-WAIVED	BLDG PERM PLAN CHECK FEE	\$ .00	\$ .00
5100	025619-1341-WAIVED	SITE REVIEW/ELEV. CERT.	\$ .00	\$ .00
5121	025619-1341-WAIVED	FIRE S.S. REFERRAL FEE	\$ .00	\$ .00
5707	025627-3140-WAIVED	REF.-GRADING/DRAIN. PLAN	\$ .00	\$ .00
5708	025627-3140-WAIVED	REF.-GRD/DRAIN DAM/DRVWY	\$ .00	\$ .00

Qualifies for Fee Waivers (Y/N): N

\$497.13 \$ .00

Total Calculated Fees	\$497.13
Total Additional Fees	\$ .00
Previously Paid	\$ .00
<b>Balance Due</b>	<b>\$497.13</b>

CASH REGISTER  
VALIDATION  
REQUIRED  
BELOW

016125 07/01/97BU:  
# 0143158  
SIERRA \$497.13  
\*\*\*TTL \$497.13  
CHECK \$497.13  
CHNG \$0.00

Lola:  
Here are plans for all 3 bridges -

The drainage information sheet & hydrology report for bridge 3 (B 143242) were missing.

I suggest we send our comments out together if possible considering your schedule.

Rick

32

DOCUMENT: PROJECT REVIEW - STORAGE POND \_\_\_ GRADING \_\_\_ HYDROLOGY \_\_\_ X \_\_\_  
 PROJECT NUMBER \_\_\_ B-143158 BY \_\_\_ B.ROBERTS \_\_\_ DATE 8/27/96

SECTION	CODE	COMMENTS	SECTION	CODE	COMMENTS
3309	GRADING PERMITS REG		3315	DANG & TERRACE	
3309.1	PERMITS REQUIRED		3315.1	GENERAL	
3309.2	APPLICATIONS		3315.2	TERRACE	
3309.3	GRADING DESIGNATION		3315.3	SUBSURF DRAINS	
3309.4	ENG GRADING REQ		3315.4	DISPOSAL	
3309.5	SOILS ENG REPORTS		3315.5	INTERCEP DRAINS	
3309.6	ENG GEO REPORT		3316	EROSION CONTROL	
3309.7	LIQUID FACTION STUDY		3316.1	SLOPES	yes
3309.8	REG GRADING REPORT		3316.2	OTHER DEVICES	
3309.9	ISSUANCE		3317	GRDING INSPECTION	
3312	CUTS		3317.1	GENERAL	
3312.1	GENERAL		3317.2	CIVIL ENGINEER	
3312.2	SLOPE		3317.3	SOILS ENGINEER	
3313	FILLS		3317.4	ENG GEOLOGIST	
3313.1	GENERAL		3317.5	PERMITTEE	
3313.2	PREP OF GROUND		3317.6	BUILDING OFFICIAL	
3313.3	FILL MATERIAL		3317.7	NOTIF OF NONCOMP	
3313.4	COMPACTION		3317.8	TRANS OF RESPOS.	
3313.5	SLOPE		3318.	COMPLET OF WORK	
3314	SETBACKS		3318.1	FINAL REPORTS	
3314.1	GENERAL		3318.2	NOTIF OF COMP.	
3314.2	TOP OF CUT SLOPES				
3314.3	TOE OF FILL SLOPES				
3314.4	MODIF OF SLOPE LOCAT				

**DOCUMENTS RECEIVED:**

1. Set of Plans " Bridge at South Fork of Miller Creek" sheets b1 of 7.
2. Geotechnical Report dated July 1,97.
3. Hydro / Hydra Report dated April 1, 97
4. Fish & Game Stream Alteration #253-97. Note: recommendations missing from front page, report incomplete.

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**1994 UBC APPENDIX CHAPTER 33**

3316.1	SLOPES
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This code of the UBC needs to be address regarding erosion control. The plan and specs has no erosion control for fill slopes.

**DRAINAGE REVIEW AND OTHER COMMENTS**

1. Water shed area = 368ac. Engineer used the Rational Method with a 100 yr storm freq, 600 CFS. For an open channel desigr.
2. Hydro/Hydra Calculations were checked . OK

**OTHER COMMENTS**

1. Sheet b7 of 7 makes reference to test pits in Geo report. Test pits are not in report.

**Information needed to complete review processes:**

1. Need recommendations. Fish & Game Stream Alteration #253-97. Note: ✓  
recommendations missing from front page, report incomplete.

**Additional Concerns:**



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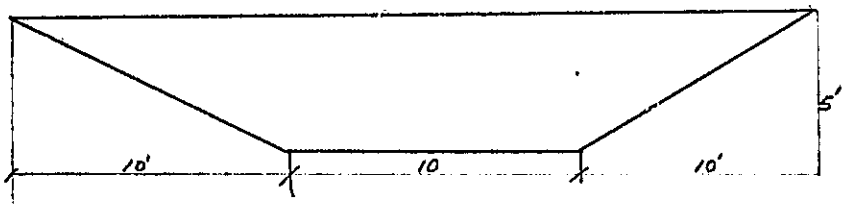
**COUNTY OF SONOMA**  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

2550 Ventura Avenue, Santa Rosa, CA 95403  
(707) 527-1900 FAX (707) 527-1103

Field Operations • Code Enforcement • Permits • Environmental & Comprehensive Planning

Miller Bridge 1<sup>st</sup> B-143158

SCALE 1" = 5'





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## Development Submittal Information for Drainage Review

Please type or print the following information:			
Name of Development: <u>Bridge #1 over Miller Creek</u>			
Property Address: <u>4400 Geysers Roadn</u>		City, Zip <u>Geyserville, CA</u>	
Nearest Cross Street: <u>Red Winery Road</u>			
Assessor's Parcel Number: <u>131-040-017</u>		Developer:	
Design Engineer: <u>Morris Engineering</u> Address: <u>817 Dora Avenue</u> City, State, Zip: <u>Ukiah, CA</u> Phone No.: <u>(707) 463-1243</u>		Applicant Name: <u>Kendall-Jackson</u> Address: <u>Attn: Julie Collins</u> <u>421 Aviation Blvd.</u> City, State, Zip: <u>Santa Rosa, CA 95403</u> Phone No.: <u>(707) 547-4763</u>	
Land Use (Planning) File #:		Permit Application # <u>B14315B</u>	
Number of Units:		Area:	
Ⓢ To Be Completed by Drainage Review (527-3805) Ⓢ			
File/Unique #:		Quad Maps:	
Major Dev. (MJS/UP/DR):	Permit Referral:	Flood Zone:	
Minor Dev. (MNS/JP/DR):	Public Project:		
Fee based on: _____ minimum, _____ Units @ _____ per unit = _____			
Permit Referral Fee: _____		Flood Zone Fee _____	Date: _____ Receipt #: _____
MJS/UP/DR Fee:	Amount	Date	Receipt #:
Base/minimum	_____	_____	_____
Balance or Total	_____	_____	_____
Review Engineer/Technician:		Final Letter Date:	
Comments:			