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541-268-3044 watershed@siuslaw.org

Request for Proposal (RFP) Date of issue: 5/3/2022

The Siuslaw Watershed Council (SWC) is seeking a qualified contractor to Perform road upgrade and maintenance on 0.97 miles on North Fork Indian Creek (Mann Creek) Rd #2116. This project will follow <u>Standard Specification for Construction of Roads and Bridges on</u> <u>Federal Highway Projects, FP-14, with Forest Service Specifications</u> and includes road reconstruction work including resurfacing, ditch relief culverts and ditch cleaning. The attached work list was developed by the Siuslaw National Forest Engineering Department to bring the road up to standard and reduce sedimentation potential to stream habitats.

Submittals are due by 5:00 PM on May 11^{th} , 2022

Contact information:

Project Manager: Caleb Mentzer, Siuslaw Watershed Council Phone: 541-268-3044 (office), 541-513-2604 (cell) Email: projects@siuslaw.org

Siuslaw Watershed Council Mission Statement

"The Siuslaw Watershed Council supports sound economic, social and environmental uses of natural and human resources in the Siuslaw River Basin. The Council encourages cooperation among public and private watershed entities to promote awareness and understanding of watershed functions by adopting and implementing a total watershed approach to natural resource management and production."

Request for Proposal

Request for Proposal for: Road maintenance and improvement on 0.97 miles in the Siuslaw River Watershed: North Fork Indian Creek

Introduction

The Siuslaw Watershed Council (SWC) is seeking a qualified contractor to Perform road upgrade and maintenance on 0.97 miles on North Fork Indian Creek (Mann Creek) Rd #2116. This project will include road reconstruction work including resurfacing, ditch relief culverts and ditch cleaning and was developed by the Siuslaw National Forest Engineering Department to bring the road up to standard and reduce sedimentation potential to stream habitats.

The goal of this project is to reduce sedimentation potential from FS Road 2116 to stream habitats in the North Fork Indian Creek (also called Mann Cr.) sub-basin of the Upper Indian Creek 6th field HUC 171002060502. US Forest Service Road 2116 (Mann Creek Rd) has been identified in the Indian Creek Landscape Analysis as a major contributor of fine sediment to anadramous fish habitats in the Upper Indian Creek 6th field watershed. This project will focus on the lower 0.97 miles of the 2116 road.

The Siuslaw Watershed Council (also listed as the SWC, Council, or Agency) invites qualified firms (referred to as Contractor) with experience in road maintenance according to US Forest Service standards to provide a proposal for the enclosed Tasks.

Background

Historic land use practices, including the building of roads, negatively impacted the quality and quantity of habitat supporting the Oregon Coast Coho population in the Siuslaw Watershed. Roads were built to access the landscape for agricultural, recreation and timber harvest purposes, and those roads often paralleled streams with surface runoff being hydrologically connected. The hydrological connection between the road matrix and stream corridors caused an unnatural increase in stream sedimentation and disrupted key salmonid spawning and rearing habitats.

General Information

This project occurs on US Forest Service land and occurs nearby to residential homes and rural farms. Care should be taken when traveling to and from the job site to help maintain a positive relationship with Indian Creek landowners. All work, including mobilization, will be limited to August 7th through September 30th, unless mutually agreed upon between the Siuslaw Watershed Council and US Forest Service Project Manager and the contractor. Any proposed

changes to the original work period must be made in writing (email is acceptable) to SWC Project Manager at projects@siuslaw.org and agreed upon prior to initiating work. The Siuslaw Watershed Council will advertise, award and administer the contract and also assist with construction oversight. The Siuslaw National Forest Engineering Department and Fisheries biologists will provide technical inspections as the work progresses.

Design Specifications: Construction specifications shall be Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-14, with Forest Service Specifications (provided by SWC Project Manager upon request). Plans and Forest Service Supplemental Specifications shall be in English units.

Other supplementary typical drawings are attached in Appendix B

Design Criteria:

- All aggregate quantities in the work list are estimates and contractor should calculate final amounts to meet the required 6" specification
 - Estimates were assuming an average road width of 14' with a 2:1 slope along the edges but this should be verified by contractor.
- Depth of aggregate for the culverts is 12".

Project Description

The following are project tasks associated with this project. A final Scope of Work (SOW) will be developed between the Siuslaw Watershed Council and the awarded contractor based upon the submitted proposal.

The work descriptions given below are not comprehensive and give a cursory description of work items for bidding purposes only; however, the total bid shall be for all ancillary items to complete the tasks. The Contractor must include adequate provisions in each bid item to account for incidentals required to complete the project.

Scope of work

Task 1. Management: Provide management for the technical work and communication with the Project Managers for Siuslaw Watershed Council and US Forest Service.

- Submit invoice in a timely fashion following completion of the project.

Task 2. Road maintenance and upgrades: Perform all work tasks listed in the accompanying FSR # 2116000. **See appendix A.** The task/s highlighted in Yellow are contingency task/s that may be included if the project budget allows but should not be included in the base bid.

Task 3. Additional work as directed by SWC and USFS Project Managers if budget allows

- Contractor must receive approval, in writing from SWC Project Manager, for any contingency tasks. Costs associated with contingency tasks must be agreed upon and a fee schedule must be established prior to engaging in any contingency tasks.

Contractor is required to supply and deliver all materials

Reasonably Implied Work and Incidental Items

Any part of the work that is not mentioned in the above scope of work, or the contract developed with the selected Contractor, which is necessary or normally required as a part of such work, shall be performed by the Contractor as incidental work without extra cost to the SWC.

Table 1. Project Timeline

Task	Timeframe
Proposals due to Council	May 11 th , 2022
Contractor selected, develop contract	May 18 th , 2022
Initiation of work	August 7 th , 2022
Work completed	September 30 th , 2022

- Contractor can begin to purchase materials as soon as the contract is signed by all parties but work can't begin until August 7th in accordance with federal wildlife restrictions.

<u>Site Visit</u>

There will be no pre-bid site tour for this project. If you are interested in visiting the site, directions and a georeferenced PDF to Mann Creek Rd can be provided by the SWC Project Manager. Contact <u>projects@siuslaw.org</u> if you would like more information.

Bidding Process

Interested contractors will present the Council with a proposal by 5 PM on May 11th, 2022. The proposal should include a complete bid packet (Items I-IV OR equivalent information in another format). Bidders should send a completed RFP either via email to <u>projects@siuslaw.org</u> or via mail to Siuslaw Watershed Council, 10868 East Mapleton Road, Mapleton Oregon 97453.

Beginning May 12th, SWC and USFS project staff and review team will review and score proposals. Following evaluation and scoring of applications, the selection committee may choose to interview up to three bidders before making a final decision. Interviews, should they take place, will be via Zoom or at the Siuslaw Watershed Council office in Mapleton, Oregon. The SWC may propose modifications to the selected contractor's proposal before finalizing contract. The SWC will award the contract based on the qualifications, experience, and price offered in the contractors' proposals. The SWC reserves the right to ask for clarifications on bid items, and offers contractors the opportunity to clarify and refine their bid items.

The SWC shall enter into a contract with the contractor whose proposal/bid appears to best serve the interest of the Project, MRT, and SWC in terms of qualifications, services to be provided, timeliness and cost. Bidders will be notified of selection results within seven (7) business days of submittal, on or before May 18th, 2022. A project kick-off meeting, via telephone, will be held with the successful bidder within a week of the award, at which time contract documents will be signed and notice to proceed will be given to the contracted firm.

Insurance

Contractor shall, at its expense, obtain and maintain during the period of this Contract, in a form and with companies satisfactory to Siuslaw Watershed Council, insurance coverage corresponding to, at a minimum, SWC's requirements as detailed in Item IV of the Invitation to Bid. Under the contractor's liability insurance, we request that The Siuslaw Watershed Council and the United States Forest Service named as additionally insured. Proof of Insurance shall be required before a contract is executed and shall be subsequently provided to SWC upon request throughout the term of the Project. The insurance coverage required herein shall in no way limit the Contractor's liability under a Contract.

Payments

The Contractor may invoice the Council for the agreed upon bid amount once work is complete. The total amount charged for this project will not exceed available funding for the project. All invoices must be submitted no later than October 1st, 2022. Payments will be made within 45 days of the invoice receipt from contractor, pending SWC receipt of payment from funder. This agreement constitutes a subcontract whereby payment to contractor may be contingent upon reimbursement of invoiced amounts from funder.

<u>A Complete Bid Packet Shall Include the Following:</u> Items I-IV OR equivalent information in alternate format

Documents provided to Potential Bidders: Bid Packet (includes Items I-IV)

Proposal Elements Considered by RFP Reviewers

Project Approach (35%)

Describe how the firm's approach to projects of this type qualifies the firm to perform the required tasks in the specified timeline.

Qualifications of the Applicant (35%)

Provide detailed descriptions of relevant work experience the firm has engaged in over the past five years, with an emphasis on tidal systems. The applicant should fully address the applicant's experience in working with the complexities of steep coastal drainages and flashy hydrology associated with rivers such as the Siuslaw. Highlight any work in which the protection of adjacent lands and/or infrastructure were significant components. Identify any built projects and/or designed projects slated for construction in the near term. Overall, applicants are encouraged to present projects which bear overall resemblance to the North Fork Indian Creek Fish Passage Enhancement Project.

Key Staff to be Involved (10%)

Identify key project staff and what their roles will be. Who will manage the project on the contractor's side and serve as the primary liaison with the SWC? Submit resumes of key project staff to be involved, not to exceed one page in length each. For staff involved, include details of certifications and professional credentials which lend support for their projected work on the project.

Cost estimate (20%)

Applicants should submit a detailed cost proposal which lays out anticipated costs for all project elements, including key project staff and their hourly billing rates, and including all anticipated expenses.

Other proposal requirements

Supply proof of insurance. This insurance must be of type and amount sufficient to meet the requirements for this type of activity, and are listed under Item IV in the enclosed Bid Packet. Under the contractor's liability insurance, we request that The Siuslaw Watershed Council be named as additionally insured. Contract will not be valid until proof of insurance is provided.

Contact Person:

Caleb Mentzer Restoration Projects Manager Siuslaw Watershed Council projects@siuslaw.org Phone: 541.268.3044 (office) 541.513.2604 (cell)

Issued By:

Siuslaw Watershed Council PO Box 422 Mapleton, OR 97453 (Mailing address)

Physical Address Location:

Siuslaw Watershed Council Mapleton School District Campus 10868 East Mapleton Road Mapleton, OR 97453 (Not Mailing address)

Bid Packet

ltem I.	Bidder Informa	tion	
BIDDER FIRM:			
BIDDER CONTACT	PERSON:		
ADDRESS:			
PHONE:		E-Mail:	

The undersigned, hereinafter called the Bidder, declares that the only person(s) interested in this Bid are those named herein; that the Bid is in all respects fair and without fraud; and, that it is made without any connection or collusion with any other person making a bid on this project.

The Bidder further declares that they have carefully examined the Request for Proposal Documents, hereinafter referred to as the Document; is satisfied as to the scope of work, and understands that the description of the work in the RFP is brief and is intended only to indicate the general nature of the work.

The Bidder agrees that if this Bid is accepted they will within five (5) working days, not including Saturdays, Sundays and legal holidays, after notification of acceptance execute a Contract with the Siuslaw Watershed Council.

The Bidder further agrees, to the extent of this Bid, to furnish all means of completion of work and do the work in the manner, in the time, and according to the methods as specified in the Document.

The Bidder further agrees to begin work on April 4th, 2022 and shall complete all tasks by January 31st, 2023. Work will not be allowed to commence until a signed Contract is received by the Siuslaw Watershed Council.

The Bidder further agrees to accept as payment for the work proposed under this project, as herein specified and under the provisions included in the Document, the task prices included on the Bid Form. The Bidder further represents a true measure of the labor required to perform the work including all allowances for overhead and profit for each type of work called for.

SIGNATURE OF AUTHORIZED REPRESENTATIVE

DATE

	No	rth Fork Indian C	reek AOP Desi	gn	
Task	DESCRIPTION	Product	Comments	<u>TOTAL</u> AMOUNT	<u>Proposed</u> <u>Completi</u> on Date
1	Project Management, Administration and Meetings	Narrative summary	comments	AMOUNT	On Date
2	Road maintenance and upgrade- FSR 2116000 work list	Narrative summary of methods			
3	Contingency: tasks as defined and approved by SWC and USFS PM's	n/a		Determined by SWC and USFS PM's and Contractor if funding allows	

Item II. Schedule of Tasks

Total Cost of Work: \$_____

The attached Part 1- Schedule of Items (appendix C) is for the contractor's use in estimating costs.

Item III. Bidder Road Reconditioning Project History and References

Bidders with experience performing similar road reconditioning work on US Forest Service roads will be favored when proposals are evaluated. Please fill out the following table with your most relevant work or attach a resume/work history with references.

Name of Client, Project Location	Description of Work Completed	Contact Name/Phone Number

Item IV: Bidder Certification

The name of the Bidder submitting this Bid Proposal is:

Doing business at _____

Which is the address to which all communications concerned with the Bid and the Contract shall be sent.

(If Corporation)

In witness whereof the undersigned Corporation had caused this instrument to be executed and its seal affixed by its duly authorized officer's this_____ day of _____

Name of Corporation	
Ву:	
Title:	_
Attest:	_
(If Partnership)	
In witness whereof the undersigned Partnership had caused this instrument to be e affixed by its duly authorized officer's this day of	
Name of Partnership	
By:	_
Title:	_
Attest	_
(If Sole Proprietor) In witness whereof the undersigned has set his hand and caused this instrument to this day of	be executed
Name of Business	
Signature of Bidder:	
Attest:	

Item V: Insurance Requirements for Contractor

______ ("CONTRACTOR") agrees to carry insurance equal to or greater than that listed below and name Siuslaw Watershed Council.

COMMERCIAL GENERAL LIABILITY AND AUTO LIABILITY

\$1,000,000. Each occurrence \$2,000,000. General aggregate \$5,000 Medical expense

- Siuslaw Watershed Council and United States Forest Service must be named as an additional insured. This insurance is required to be primary and non-contributory and include a waiver of subrogation.
- Insurance must be maintained continuously
- Contractor must provide a 30-day notice of cancellation

WORKERS COMPENSATION

\$500,000 employer liability Complies with all applicable workers' compensation laws of the state of Oregon Certificate of insurance only

• Workers compensation must contain a waiver of subrogation

AUTO LIABILITY

\$1,000,000 combined single limit for all owned, non-owned or hired vehicles

 Siuslaw Watershed Council and United States Forest Service must be named as an additional insured. This insurance is required to be primary and non-contributory and include a waiver of subrogation.

SIGNATURE OF AUTHORIZED REPRESENTATIVE

DATE

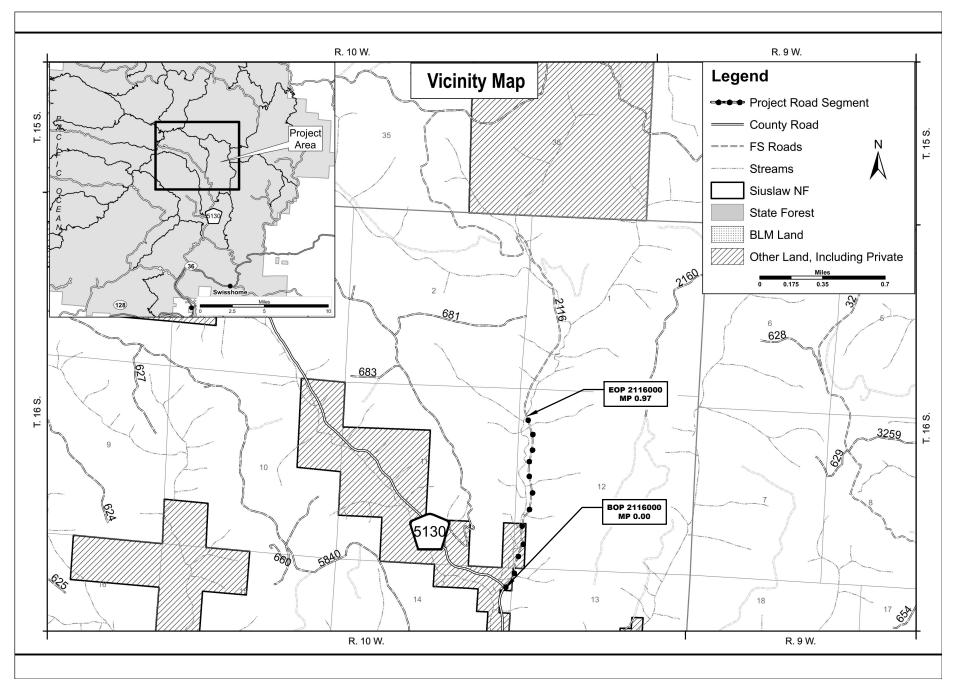
PRINTED NAME

		FSR # 2116000					WOR		T ANC) ESTI	MATE	d QUA		ES			
		FP-14 Pay Items	Mobilization	Soil erosion & pollution control	Clearing and grubbing, disposal method tops and limbs (f), logs (i), stumps (f)	Removal of culvert, disposal method a	Roadway excavation, tolerance class c	Waste	Earthwork geosynthetics, type geotextile class 1 type E	Keyed riprap, class 3	Aggregate surface course, method 2	Pit run maximum size 6", method 2	Roadway reconditioning, compaction method 2	24-inch pipe culvert, aluminized corrugated metal, 16 gage	36-inch pipe culvert, aluminized corrugated metal, 16 gage	49 inch span x 33 inch rise pipe culvert aluminized steel, 2-2/3 x 1/2 corrugations, 16 gage	Fence, type ?
	ost or oning	Item Number: Unit of Measure:	15101 LSQ	15713 LSQ	20101 LSQ	20302 EA	20405 CY	20429 CY	20701 SY	25104a CY	30207 CY	30210 CY	30315 MILE	60201b FT	60201c FT	60202 FT	61901 FT
Stati	oning	Contract Quantity	LSQ	LSQ	LSQ	EA	۲ ۲	*	5Y *	۲ ۲	*	<u>د</u> ۲ *	MILE	FI	FI	FI	FI
Begin	End	Description of Work															
3.52		Beginning of Project Jct of Co Rd 5130	All	All													
3.52	2.55	RESTRICTIONS: (see FSSS 107 for details) Aug 6 - March 31 Work activites allowed in Marbled Murrelet suitable habitat. Aug 6 - Sept 15 Marbled Murrelet timing restrictions. July 1-Aug 31 In stream work allowed June 15 - Oct 15 Ground disturbance activities allowed except in Marbled Murrelet or in stream restricted areas.															
3.52	2.55	Clearing and grubbing at all project sites, brushing along roadway, felling of marked trees within clearing limits.			All												
3.52	2.55	Roadway reconditioning, scarify all potholes, additional aggregate to be placed in scarified locations, outslope as shown below. Includes cattle guard cleaning shown below.									100		0.97				
3.47		Existing stream culvert															
3.43	3.22	Outslope road															
3.35		Existing 15" cmp, replace with 24" cmp (intermittent stream)				1			12	3	3			32			
3.27		Existing 15" cmp, replace with 24" cmp (intermittent stream)				1			12	3	3			30			
3.22	3.06	Outslope road and install 6" of 1-1/2" minus aggregate surfacing									270						
3.21		Install new culvert, 24" CMP, at staked location (intermittent stream)						15	12	3	3			30			
<mark>3.18</mark>		Existing cattleguard, clean, install fencing to block gate access.															?
3.16		Existing 24" CPP															
3.14		Install new 24" CMP, inlet and outlet locations staked						10	12	3	3			44			
3.12		Existing 24" CMP, replace with 42" pipe arch (49x33), lower outlet ~2', 1 cy of riprap as headwall at inlet (perenial stream)				1		10	29	12	7					40	
3.06		Remove existing CPP culvert and downdrain, install new 24" CMP lower outlet ~2', place riprap dissipator instead of downdrain (intermittent stream)				1			12	3	3			30			
3.06	2.78	Crown road															

Appendix A

		FSR # 2116000					WOR		T AND) ESTI	MATE	D QUA		ES			
		FP-14 Pay Items	Mobilization	Soil erosion & pollution control	Clearing and grubbing, disposal method tops and limbs (f), logs (i), stumps (f)	Removal of culvert, disposal method a	Roadway excavation, tolerance class c	Waste	Earthwork geosynthetics, type geotextile class 1 type E	Keyed riprap, class 3	Aggregate surface course, method 2	Pit run maximum size 6", method 2	Roadway reconditioning, compaction method 2	24-inch pipe culvert, aluminized corrugated metal, 16 gage	36-inch pipe culvert, aluminized corrugated metal, 16 gage	49 inch span x 33 inch rise pipe culvert aluminized steel, 2-2/3 x 1/2 corrugations, 16 gage	Fence, type ?
Milep		Item Number:	15101	15713	20101	20302	20405	20429	20701	25104a	30207	30210	30315	60201b	60201c	60202	61901
Statio	oning	Unit of Measure:	LSQ	LSQ	LSQ	EA	CY	CY	SY	CY	CY	CY	MILE	FT	FT	FT	FT
L		Contract Quantity	ļ	l			L Î	Ŷ	Ŷ	Ŷ	Ŷ	Ŷ					
Begin	End	Description of Work															
3.00		Remove existing culvert, install new 24" CPP culvert riprap dissipator				1			12	3	3			30			
2.95		Existing CMP, replace with AOP at a later date															
2.89		Existing 15" cmp, clear catch basin															
2.85		Remove existing culvert, install new 24" CMP culvert				1			12	3	3			35			
2.78	2.61	Outslope road and install 6" of 1-1/2" minus aggregate surfacing									290						
2.75		Install new 24" CMP, Inlet and outlet staked						15	12	3	3			46			
2.74		Existing 24" culvert															
2.68		Existing 15" cmp, replace with 24" cmp				1			12	3	3			35			
2.61		Existing CMP, replace with AOP at later date															
<mark>2.61</mark>	<mark>2.55</mark>	Block user created loop road to dispersed camping area near stream, earth berm barrier or boulders or?					×										
	2.55	End of project, existing Indian Creek #1 bridge															
	SUBTOTAL FOR ROAD			All	All	7	0	50	137	39	694	0	0.97	312	0	40	0

Appendix B



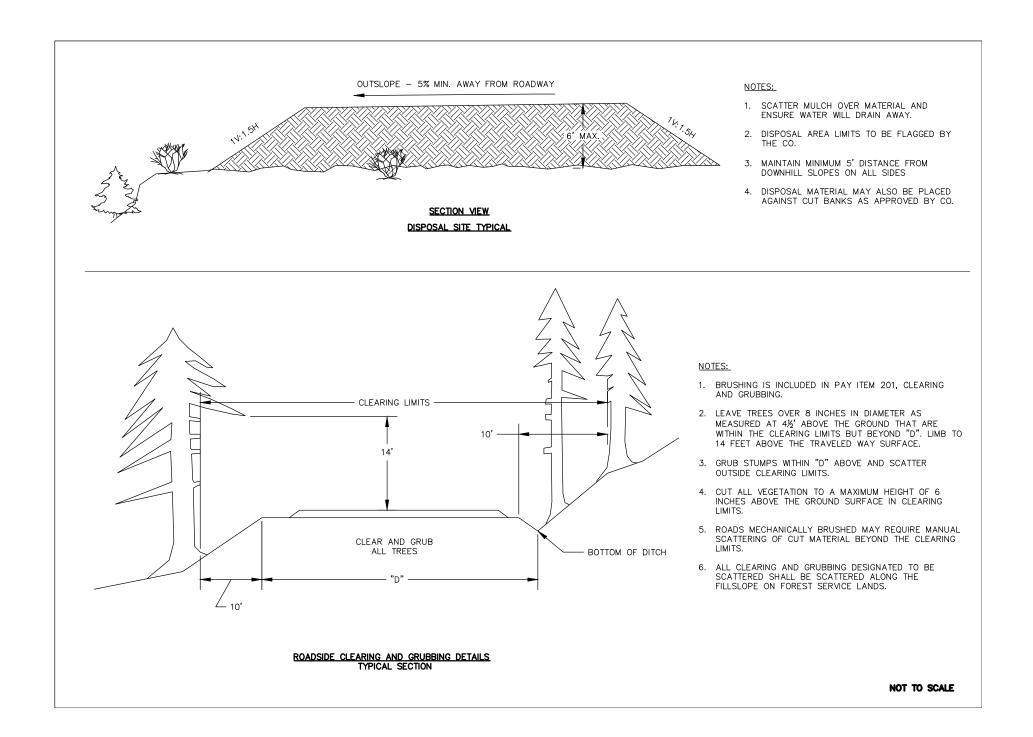
MANN CREEK PHASE 1												
ROAD NUMBER			2116000									
PROJECT LENGTH (MILES)			0.97									
ITEM NO.	DESCRIPTION	PAY UNIT		REMARKS								
15101	MOBILIZATION	LUMP SUM	ALL	INDIRECT PAYMENT FOR EQUIPMENT WASHING, TEMPORARY TRAFFIC CONTROL, AND FIRE PREVENTION								
15713	SOIL EROSION & POLLUTION CONTROL	LUMP SUM	ALL	MULCHING OF ALL DISTURBED AREAS INCLUDING DISPOSAL SITES. STRAW MUST BE WEED FREE CERTIFIED. DEWATERING IF STREAM FLOW. CONTRACTOR PROVIDED MATERIALS.								
20101	CLEARING AND GRUBBING, DISPOSAL METHOD TOPS AND LIMBS (F), LOGS (I), STUMPS (F)	LUMP SUM	ALL	CLEARING AND GRUBBING ALONG ROADS AND AT SPECIFIC PROJECT SITES, INCLUDES LOGOUT AND BRUSHING. SCATTER LIMBS AND TOPS OR PLACE ON EMBANKMENT SLOPE (OUTLET SIDE ONLY), DECK LOGS, SCATTER STUMPS.								
20302	REMOVAL OF CULVERT, DISPOSAL METHOD A	EACH	7	EXCAVATED CULVERTS ARE TO BE PROPERLY DISPOSED OFF NFS LAND.								
20405	ROADWAY EXCAVATION, TOLERANCE CLASS C	CUBIC YARD*	0	EARTH BERM BARRIER.								
20429	WASTE	CUBIC YARD*	50	LOCATIONS DESIGNATED BY FS. COMPACT AND SHAPE PRIOR TO MULCHING.								
20701	EARTHWORK GEOSYNTHETICS, TYPE GEOTEXTILE CLASS 1 TYPE E	SQUARE YARD*	137	PLACE UNDER DISSIPATER RIPRAP.								
25104	KEYED RIPRAP, CLASS 3	CUBIC YARD*	27	EMBANKMENT PROTECTION AT INLETS AND DISSIPATER AT OUTLET OF CULVERT LOCATIONS, SEE SHEET 'DRAINAGE LISTING'								
30207	AGGREGATE SURFACE COURSE, METHOD 2	CUBIC YARD*	698	FSSS 301.05 (B) COMPACTION B (FSSS 204.11(B)), USE COMPACTION EQUIPMENT. COMMERCIAL SOURCE, GRADING C. QUANTITY IS COMPACTED PLACE. AGGREGATE MUST MEET ALL REQUIREMENTS SHOWN IN FSSS 703.05(A).								
30210	PIT RUN MAXIMUM SIZE 6", METHOD 2	CUBIC YARD*	0	PLACE IN DITCHLINE AS STAKED. COMMERCIAL SOURCE. QUANTITY IS COMPACTED IN PLACE.								
30315	ROADWAY RECONDITIONING, COMPACTION METHOD 2	MILE	0.97	MINIMIZE VEGETATION DISTURBANCE IN DITCH. SCARIFY AREAS WITH POTHOLES. SHAPE TO OUTSLOPE AS NOTED IN WORK DESCRIPTION.								
60201	24-INCH PIPE CULVERT, ALUMINIZED CORRUGATED METAL, 16 GAGE, COMPACTION METHOD 2	FOOT	312	INDIRECT PAYMENT FOR ALL EXCAVATION AND BACKFILL, BANDS, AND BEDDING. USE COMPACTION METHOD 2 (FSSS 209.10 (B)).								
60202	49 INCH SPAN X 33 INCH RISE PIPE CULVERT ALUMINIZED STEEL, 2-2/3 X 1/2 CORRUGATIONS, 14 GAGE	FOOT	40	INDIRECT PAYMENT FOR ALL EXCAVATION AND BACKFILL, BANDS, GASKETS AND BEDDING. USE COMPACTION METHOD 2 (FSSS 209.10 (B)).								
	FENCE, TYPE ?	FOOT	0	INSTALL AT CATTLE GUARD AS STAKED.								

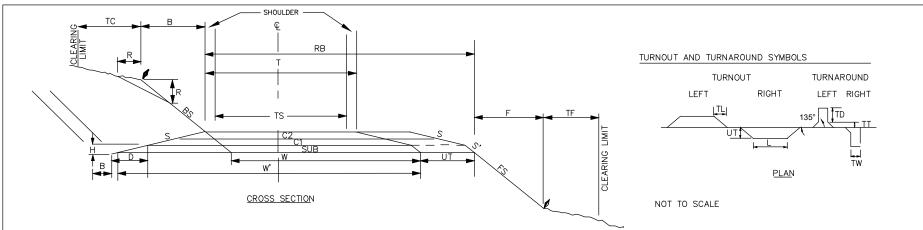
WHERE COMPACTION IS REQUIRED, COMPACTION EQUIPMENT MUST BE USED, HAULING AND SPREADING EQUIPMENT CANNOT BE USED IN LIEU OF COMPACTION EQUIPMENT.

DISPOSAL AREA: 6' MAXIMUM HEIGHT OF MATERIAL, 1V:1.5H SLOPES, SHAPE TO DRAIN AND RECONSTRUCT DITCHLINE BETWEEN ROAD AND DISPOSAL SITE. DISPOSAL SITES WILL BE FLAGGED BY CO PRIOR TO ANY MATERIAL BEING PLACED.

SEE CONTRACT SPECIFICATIONS FOR DAILY AND SEASONAL RESTRICTIONS.

ALL UTILITY LOCATES, PERMITS, AND WATER RIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.





GENERAL NOTES 1. CURVE WIDENING (CW), TURNOUTS AND TURNAROUNDS SHALL BE SURFACED TO THE SAME DEPTH AS THE ROADBED IF INCLUDED IN EXCAVATION. 2. ALL SITES SHALL BE SURFACED WITH 1 1/2" MINUS AGGREGATE.

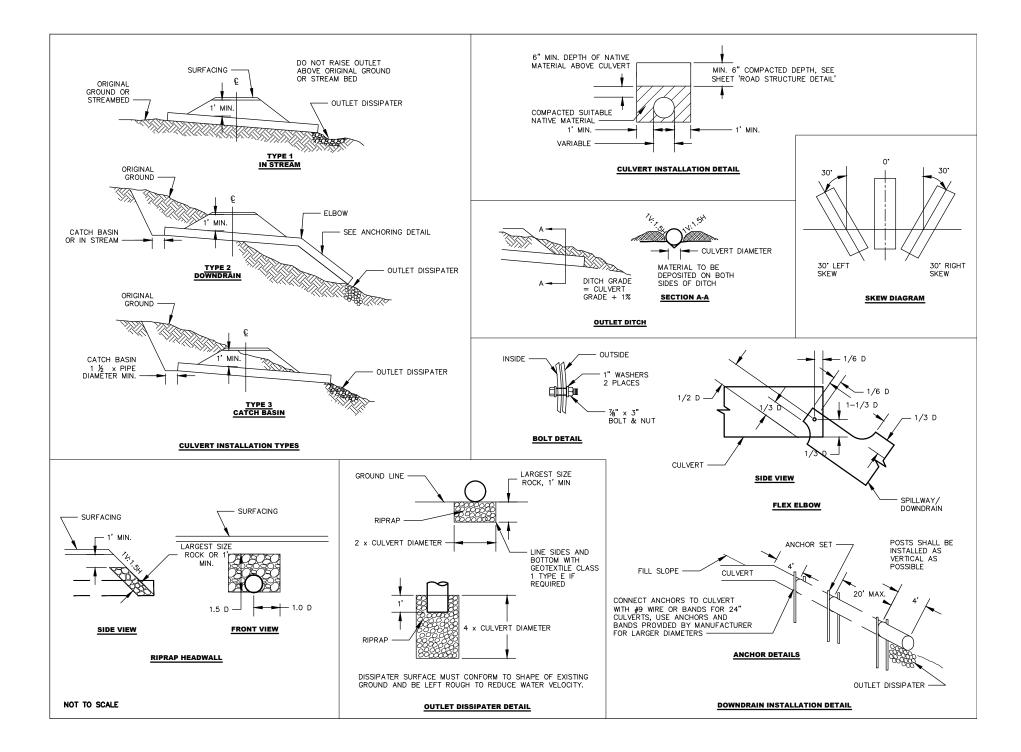
3. 'EX' - MATCH EXISTING

						GR	ADING		SURFACE STRUCTURE										SHOULDER ROCK			
ROAD NUMBER	VING STATION OR MILEPOST	ENDING STATION OR MILEPOST	TRAVELED WAY WIDTH	IN TOLERANCE	OUTSLOPE (O) INSLOPE (I) CROWN (C)		WIDTH		DITCH			GRADATION			COMPACTED DEPTH				DEPTH	SLOPE RATIO	SURFACE WIDTH	GRADATION
	BEGINNING	ENDIN	FT	RUCTIO	%		FT		FT						IN		C1&2	SUB	IN	H:V	FT	
	BEC		(T)	CONSTRUCTION	(TS)	(W)	(W')	В	D	Н	SUB	C1	C2	SUB	C1	C2	S	S'	SUB C1& 2	SUB C1&2		SUB C1&2
2116000	1	VERT AIRS	14' MIN.	F	*		(T)+2'		2	1			1 1/2" MINUS			6	2H:1V					
2116000		22-3.06 78-2.61	14' MIN.	F	3 (O)		(T)+2'		2	1	EX	EX	1 1/2" MINUS			6	2H:1V			MATCH STR	I SURF UCTUI	

* MATCH CROSS SLOPE FOR SECTION OF ROAD, SEE WORK LIST

														DRAINAGE I	ISTING						
		DESI	GNED						AS B	BUILT			11	STALLATION	DETAI	LS	MACH	HINE PL	ACED F	IPRAP	REMARKS
		GATED I PIPE*	METAL		JGATED SPILLWA		CORRU	JGATED PIPE*	METAL		JGATED SPILLWA		()) RIGHT STAKED	MBLY	I ТҮРЕ	CLA	SS 3	CLA	SS 4	'EX' - MATCH EXISTING
MILEPOST OR STATION	DIA (INCHES)	LENGTH (FEET)	GAGE	DIA (INCHES)	LENGTH (FEET)	GAGE	DIA (INCHES)	LENGTH (FEET)	GAGE	DIA (INCHES)	LENGTH (FEET)	GAGE	GRADE (%)	SKEW (DEGREE) RIGHT (R) LEFT (L) OR AS STAKED (S)	ANCHOR ASSEMBLY	INSTALLATION TYPE	INLET (CY)	OUTLET (CY)	INLET (CY)	ουτιετ (cy)	FP-14 152.05 (g) CULVERTS - STAKING INFORMATION PURCHASER RESPONSIBILITY * ALUMINIZED, 2-2/3" X 1/2" CORRUGATIONS
2116000																					
3.35	24	32	16										**	EX		1		3			INTERMITTENT STREAM
3.27	24	30	16										**	EX		1		3			INTERMITTENT STREAM
3.21	24	30	16										**	AS STAKED		1		3			NEW INSTALLATION, NO EXISTING CULVERT, INTERMITTENT STREAM
3.14	24	44	16										**	AS STAKED		1		3			NEW INSTALLATION, NO EXISTING CULVERT, INTERMITTENT STREAM
3.12	49X33	40	14										**	EX		1	3	8			GASKETS INCLUDED, LOWER OUTLET 2', PERENNIAL STREAM
3.06	24	30	16										**	EX		1		3			LOWER OUTLET 2', INSTALL RIPRAP DISSIPATER INSTEAD OF DOWNDRAIN, INTERMITTENT STREAM
3.00	24	30	16										**	EX		3		3			
2.85	24	35	16										**	EX		3		3			
2.75	24	46	16										**	AS STAKED		3		3			NEW INSTALLATION, NO EXISTING CULVERT, INTERMITTENT STREAM
2.68	24	35	16										**	EX		3		3			

** PLACE AT EXISTING GRADE UNLESS STAKED OTHERWISE



		FSR # 2116000						WORK L	IST AND ES	TIMATED QU	JANTITIES					
		FP-14 PAY ITEMS	MOBILIZATION	SOIL EROSION & POLLUTION CONTROL	CLEARING AND GRUBBING, DISPOSAL METHOD TOPS AND LIMBS (F), LOGS (I), STUMPS (F)	REMOVAL OF CULVERT. DISPOSAL METHOD A	ROADWAY EXCAVATION. TOLERANCE CLASS C	WASTE	EARTHWORK GEOSYNTHETICS, TYPE GEOTEXTILE CLASS 1 TYPE E	KEYED RIPRAP, CLASS 3	AGGREGATE SURFACE COURSE, METHOD 2	PIT RUN MAXIMUM SIZE 6", METHOD 2	ROADWAY RECONDITIONING, COMPACTION METHOD 2	24-INCH PIPE CULVERT, ALUMINIZED CORRUGATED METAL, 16 GAGE, COMPACTION METHOD 2	49 NCH SPAN X 33 NCH RISE PIPE CULVERT ALUMNIZED STEEL, 2-21 X 1/2 CORRUGATIONS, 14 GAGE	FENCE, TYPE ?
MILEPO	OST OR	ITEM NUMBER:	15101	15713	20101	20302	20405	20429	20701	25104	30207	30210	30315	60201	60202	61901
STATI	ONING	UNIT OF MEASURE:	LSQ	LSQ	LSQ	EA	CY	CY	SY	CY	CY	CY	MILE	FT	FT	FT
		CONTRACT QUANTITY														
BEGIN	END	DESCRIPTION OF WORK					1	1	1			1	1	1		1
3.52		BEGINNING OF PROJECT JCT OF CO RD 5130	All	All												
3.52	2.55	RESTRICTIONS: (SEE FSSS 107 FOR DETAILS) AUG 6. MARCH 51. WORK ACTIVITES ALLOWED IN MARBLED MURRELET SUITABLE HABITAT. AUG 7. SEPT 71. MARBLED MURRELET TIMING RESTRICTIONS. JUNE 1. OCT 31. GROUND DISTRIBUNGEN ALLOWED JUNE 1. OCT 31. GROUND DISTRIBUNGEN ACTIVITIES ALLOWED EXCEPT IN MARBLED MURRELET OR IN STREAM RESTRICTED AREAS.														
3.52	2.55	CLEARING AND GRUBBING AT ALL PROJECT SITES, BRUSHING ALONG ROADWAY, FELLING OF MARKED TREES WITHIN CLEARING LIMITS.			All											
3.52	2.55	ROADWAY RECONDITIONING, SCARIFY ALL POTHOLES, ADDITIONAL AGGREGATE TO BE PLACED IN SCARIFED LOCATIONS, OUTSLOPE AS SHOWN BELOW. INCLUDES CATTLE GUARD CLEANING SHOWN BELOW.									100		0.97			
3.47		EXISTING STREAM CULVERT														
3.43	3.22	OUTSLOPE ROAD, 3%, DO NOT DISTURB DITCH														
3.35		EXISTING 15" CMP, REPLACE WITH 24" CMP (INTERMITTENT STREAM). PLACE 12" DEPTH OF AGGREGATE.				1			12	2	3			32		
3.27		EXISTING 15" CMP, REPLACE WITH 24" CMP (INTERMITTENT STREAM). PLACE 12" DEPTH OF AGGREGATE.				1			12	2	3			30		
3.22	3.06	OUTSLOPE ROAD 3%, DO NOT DISTURB DITCH. PLACE AGGREGATE SURFACING, 6" DEPTH									270					
3.21		INSTALL NEW CULVERT, 24* CMP, AT STAKED LOCATION (INTERMITTENT STREAM)						15	12	1	3			30		
<mark>3.18</mark>		EXISTING CATTLEGUARD, CLEAN, INSTALL FENCING TO BLOCK GATE ACCESS.														?
3.16		EXISTING 24" CPP														
3.14		INSTALL NEW 24" CMP, AT STAKED LOCATION						10	12	2	3			44		
3.12		EXISTING 24" CMP, REPLACE WITH 42" PIPE ARCH (49X33), LOWER OUTLET -2', 1 CY OF RIPRAP AS HEADWALL AT INLET (PERENIAL STREAM)				1		10	29	12	11				40	
3.06		REMOVE EXISTING CPP CULVERT AND DOWNORAIN, INSTALL NEW 24* CMP LOWER OUTLET ~2*, PLACE RIPRAP DISSIPATOR INSTEAD OF DOWNDRAIN (INTERMITTENT STREAM)				1			12	1	3			30		
3.06	2.78	CROWN ROAD														
3.00		REMOVE EXISTING CULVERT, INSTALL NEW 24" CMP. PLACE 12" DEPTH OF AGGREGATE.				1			12	2	3			30		
2.95		EXISTING CMP, REPLACE WITH AOP AT A LATER DATE														
2.89		EXISTING 15" CMP, CLEAR CATCH BASIN														
2.85		REMOVE EXISTING CULVERT, INSTALL NEW 24° CMP CULVERT. PLACE 12° DEPTH OF AGGREGATE.				1			12	2	3			35		
2.78	2.61	OUTSLOPE ROAD 3%, DO NOT DISTURB DITCH. PLACE AGGREGATE SURFACING, 6" DEPTH.									290					
2.75		INSTALL NEW 24" CMP, AT STAKED LOCATION						15	12	2	3			46		
2.74		EXISTING 24* CULVERT														
2.68		EXISTING 15" CMP, REPLACE WITH 24" CMP				1			12	1	3			35		
2.61		EXISTING CMP, REPLACE WITH AOP AT LATER DATE														
2.61	2.55	BLOCK USER CREATED LOOP ROAD TO DISPERSED CAMPING AREA NEAR STREAM, EARTH BERM BARRIER OR BOULDERS OR?					?	?								
	2.55	END OF PROJECT, EXISTING INDIAN CREEK #1 BRIDGE														

Appendix C

PART I - SCHEDULE OF ITEMS

SECTION B – SERVICES AND PRICES

MANN CREEK PHASE 1 Central Coast Ranger District Forest County

B-1-SCHEDULE OF ITEMS

ITEM	DESCRIPTION	PAY	EST.	UNIT	TOTAL
NO.		UNIT	QTY.	PRICE	PRICE
15101	Mobilization	Lump Sum	All	\$	\$
15713	Soil erosion and pollution control	Lump Sum	All	\$	\$
20101	Clearing and grubbing, disposal method tops and limbs (f), logs (i), stumps (f)	Lump Sum	All	\$	\$
20302	Removal of culvert, disposal method a, compaction method N/A	Each	7	\$	\$
20405	Roadway excavation, tolerance class F	Cubic Yard*	0	\$	\$
20429	Waste	Cubic Yard*	50	\$	\$
20701	Earthwork geosynthetics, type geotextile class 1 type E	Square Yard*	137	\$	\$
25104	Keyed riprap, class 3	Cubic Yard*	27	\$	\$
30207	Aggregate surface course, method 2	Cubic Yard*	698	\$	\$
30210	Pit run maximum size 6", method 2	Cubic Yard*	0	\$	\$
30315	Roadway reconditioning, compaction method 2	Mile	0.97	\$	\$
60201	24 inch pipe culvert, aluminized corrugated metal, 16 gage, compaction method 2	Foot	312	\$	\$
60202	49 inch span, 33 inch rise, pipe culvert, aluminized corrugated metal, $2-2/3 \times \frac{1}{2}$ corrugations, 14 gage	Foot	40	\$	\$
61901	Fence, <type></type>	Foot	0	\$	\$

B-2 - NOTE: Payment for bond premiums in accordance with Clause 52.232-5, Payments under Fixed-Price Construction Contracts, shall not be in addition to the contract price. Include bond payments under 151.01 Mobilization.

Payment will be made on actual work performed as described in FP-14 109.01 unless otherwise noted.