

Karuk Community Health Clinic

64236 Second Avenue
Post Office Box 316
Happy Camp, CA 96039
Phone: (530) 493-5257
Fax: (530) 493-5270

Karuk Tribe



Administrative Office

Phone: (530) 493-1600 • Fax: (530) 493-5322
64236 Second Avenue • Post Office Box 1016 • Happy Camp, CA 96039

Karuk Dental Clinic

64236 Second Avenue
Post Office Box 1016
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Phone: (530) 493-2201
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Request for Proposals

12-RFP-830

For More Information: Sandi Tripp, Director of Transportation, (530) 627-3063

Proposal Deadline: Friday, October 5, 2012 at 5:00 p.m. (Pacific Standard Time)

The Karuk Tribe requests proposals for the following Scope of Work required for Speed Hump Improvements for the Official Karuk Tribe Indian Reservation Roads Program Routes, Traffic Calming Project in Happy Camp and Orleans, California.

Project Intent

The Karuk Tribe Department of Transportation seeks to improve neighborhood livability and pedestrian/bicycle safety by installing traffic calming measures and reducing motor vehicle speeds on Tribal routes.

Overview

Notice is hereby given that the Karuk Tribe Department of Transportation intends to implement a Neighborhood Traffic Calming Project and is currently accepting project proposals from California State Licensed General Engineering Contractors.

Prospective contractors shall ensure that their project proposal includes a methodology for implementation of all work tasks identified in the Scope of Work noted below and is consistent with furnishing of all labor, equipment and supervision necessary to complete the project in its entirety.

Pre-Bid Conference

A Pre-Proposal conference and site visit shall be held on Tuesday, September 25, 2012 at 1:00 p.m. at the Karuk Tribe Administration Office, 64236 Second Avenue, Happy Camp, CA.

Attendance is recommended but NOT mandatory; although, prospective contractors will be expected to be familiar with site conditions. The Pre-Proposal conference minutes and notes will be delivered to attendees who make a written request. During the site visit potential contractors shall inspect the site where services are to be performed and shall satisfy themselves as to all general and local conditions that may affect the cost of performance of the contract to the extent such information is reasonably obtainable.

Task One – Speed Hump Installation

The Contractor shall construct Parabolic Speed Humps on the following Karuk Tribal routes as noted in the attached Project Plans and Special Provisions, California Manual of Uniform Traffic Control Devices (MUTCD) Manual (latest edition), and the 2010 Caltrans Standard Specifications.

Project Routes	
Happy Camp	Orleans
Jacobs Way	Big Rock Road
Shan D Drive	Elders Loop (Unuhyaach Road)
	Asip Road
	Axak Court

Task Two – Signage

The Contactor shall install said Parabolic Speed Hump signage in accordance with the attached Project Plans and Special Provisions, California Manual of Uniform Traffic Control Devices (MUTCD) Manual (latest edition), and the 2010 Caltrans Standard Specifications.

Task Three - Striping

The Contactor shall ensure application of painted and thermoplastic traffic striping and/or pavement markings including glass bead, as noted in the attached Project Plans and Special Provisions, California Manual of Uniform Traffic Control Devices (MUTCD) Manual (latest edition), and the 2010 Caltrans Standard Specifications.

Responses to this Request for Proposals should include the following:

- 1) A proposed methodology for completion of all tasks described in the Scope of Work noted above.
- 2) Detailed project schedule identifying a clear consecutive date structure.
- 3) Lump sum project budget detailing all labor, equipment and materials costs necessary for the completion of this project. **Note: The Contractor must comply with the minimum rates for wages in accordance with the provision of the Davis-Bacon Act and shall provide appropriate certifications indicating compliance.**
- 4) A statement of qualifications, including descriptions of similar work previously completed.
- 5) Copy of applicable General Engineering Contractor License and insurance certificates.
- 6) Names and telephone numbers of three recent client references.

Responses must be hand, mail, fax, or email delivered by Friday, October 5, 2012 by 5:00 p.m. (Pacific Standard Time) to:

Tiffany Ashworth
Karuk Tribe Administration Office
64236 Second Avenue, PO Box 1016, Happy Camp, CA 96039
Faxes will be accepted at (530) 493-2342
Emails will be accepted at tashworth@karuk.us

Indian Preference will apply in the selection process in accordance with the Indian Preference Act of 1934 (Title 25, USC, Section 47) and/or the Tribal Employment Rights Ordinance (TERO), based on funding source requirements.

All contracts that exceed \$2,500.00 shall be subject to a 2% Tribal Employment Rights Fee in accordance with the TERO Ordinance.

If applicable, construction contracts in excess of \$2,000, when required by Federal grant program legislation, are subject to compliance with the Davis-Bacon Act (40 USC 276a to a-7) as supplemented by Department of Labor regulations (29 CFR part 5).

KARUK TRIBE ORLEANS & HAPPY CAMP, CALIFORNIA

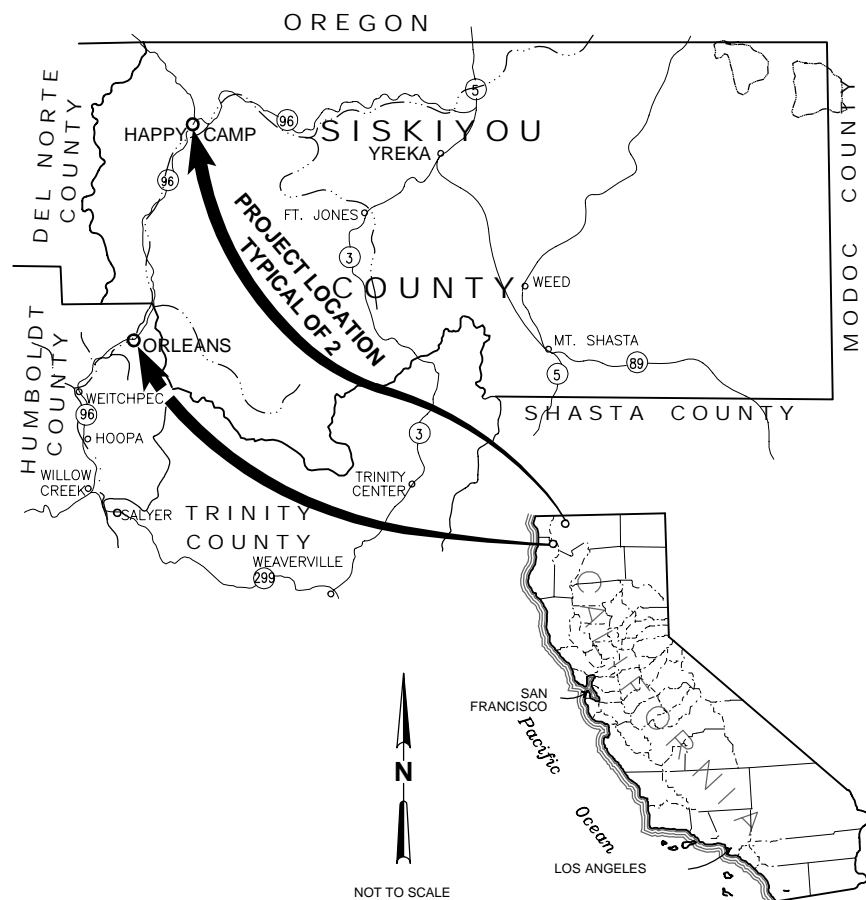
SPEED HUMP IMPROVEMENT PROJECT

SEPTEMBER 2012

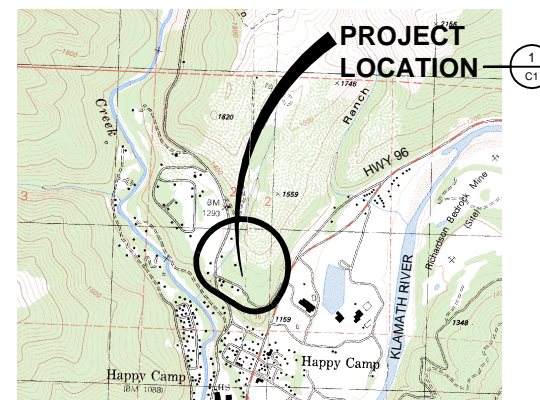
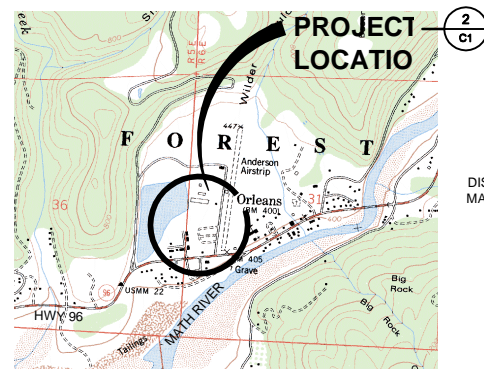
PREPARED BY



AREA MAP



LOCATION MAPS



SHEET INDEX

SHEET NUMBER	DESIGNATION	DESCRIPTION
1	G1	COVER SHEET
2	G2	GENERAL NOTES
3	C1	SITE PLANS
4	C2	PARABOLIC SPEED HUMP DETAILS
5	C3	TEMPORARY TRAFFIC CONTROL

APPROVALS

KARUK TRIBE, DEPARTMENT OF TRANSPORTATION
SANDI TRIPP, DIRECTOR OF TRANSPORTATION

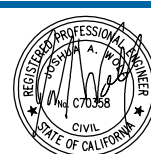
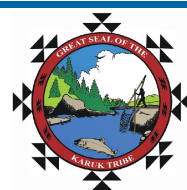
Sandi Tripp
SIGNED 9/6/12
DATE

ENGINEER: GHD
JOSHUA A. WOLF, PE

Joshua A. Wolf
SIGNED 9/6/12
DATE

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

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Drafting Check JW	Design Check JW
Approved (Project Director) SAA	Date 8/8/12
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Client **KARUK TRIBE**
Project **SPEED HUMP IMPROVEMENT PROJECT**
Title **COVER SHEET**
Contract No. 0125712001
Original Size
Ansi D Drawing No: G1

GENERAL NOTES

- THIS PROJECT REQUIRES A GENERAL ENGINEERING CONTRACTORS LICENSE.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS & SPECIFICATIONS (DATED 2010), AND THE CALTRANS ENCROACHMENT PERMIT ISSUED FOR FOR THIS PROJECT, UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-JOB MEETING WITH THE KARUK TRIBE REPRESENTATIVE PRIOR TO CONSTRUCTION.
- QUANTITIES OF ITEMS, LENGTH OF PROJECT, AND SITE CONDITIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE TRIBE, GHD INC., AND THEIR REPRESENTATIVES HARMLESS FROM ANY AND ALL LIABILITY, REAL AND/OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF THIS PROJECT.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING STRUCTURES, ROADS, SIGNS, FENCES, AND UTILITIES DURING CONSTRUCTION. ALL DAMAGE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS, DISTANCES, AND FEATURES THAT MAY AFFECT THE WORK. SHOULD EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR INDICATED, OR IF IT APPEARS THAT THESE PLANS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE WILL BE MADE ON HIS BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- A SET OF SIGNED WORKING DRAWINGS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE ENGINEER WHEN THE WORK TO BE DONE IS COMPLETED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT TEMPORARY BARRIERS TO PROVIDE FOR THE SAFETY OF THE PUBLIC TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL NOTIFY THE OWNER AND CALTRANS AT LEAST 72 HOURS IN ADVANCE OF COMMENCEMENT OF ANY PART OF THE WORK AND SHALL COORDINATE CONSTRUCTION SCHEDULE WITH OWNERS REPRESENTATIVE.
- UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS SUCH AS COUNTY GRADING ORDINANCES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR PROPER DISPOSAL OF UNSUITABLE MATERIALS TAKEN FROM SITE.
- THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, APPROACHES, AND OTHER DESIGN DETAILS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT THE EXPRESSED, WRITTEN DIRECTION AND APPROVAL OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL READ AND MAKE CAREFUL EXAMINATION OF THE PLANS, SPECIFICATIONS, QUANTITIES AND MATERIAL ESTIMATES AND VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS BEFORE MAKING A BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ERRORS RESULTING FROM THE FAILURE TO MAKE SUCH AN EXAMINATION. ANY INFORMATION DERIVED FROM THE MAPS, PLANS, SPECIFICATIONS, PROFILES, DRAWINGS OR FROM THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM ANY RISK OR FROM FULFILLING THE TERMS OF THE CONTRACT.
- NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING STAGING AREAS WITH THE KARUK TRIBE.
- UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
- THE CONTRACTOR SHALL BE REQUIRED TO TACK COAT THE EXISTING ASPHALT PAVEMENT WHERE OLD ASPHALT IS TO BE TIE INTO THE NEW ASPHALT PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO TAPER THE NEW ASPHALT CONCRETE SURFACING TO MATCH THE EXISTING PAVEMENT SECTION AT TIE-IN POINTS AND TO PROVIDE FOR A SMOOTH TRANSITION AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 72 HOURS IN ADVANCE OF ANY EXCAVATION THAT WILL EXTEND 2 FEET OR DEEPER, AND WILL NOT PROCEED WITH ANY EXCAVATION WORK UNTIL CLEARED TO DO SO BY THE OWNER. A TRIBAL MONITOR OR ARCHAEOLOGIST MAY BE ON SITE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS ADVISED THAT IF ANY ARCHAEOLOGICAL FINDINGS ARE DISCOVERED DURING CONSTRUCTION THAT THE MONITOR OR ARCHAEOLOGIST HAS THE AUTHORITY TO SLOW OR STOP CONSTRUCTION ACTIVITIES AS THEY DEEM NECESSARY.

UTILITY NOTES

- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (800) 227-2600 A MIN. OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.
- THE CONTRACTOR SHALL VERIFY ALL UTILITIES WITH OWNERS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.

GRADING NOTES

- CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED CONSTRUCTION STAKING. STAKING SHALL BE REVIEWED BY OWNER FOR CONFORMANCE TO DESIGN PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY DURING CONSTRUCTION. ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
- ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS.
- ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.

WATER POLLUTION CONTROL NOTES

- CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL USE CALTRANS STORMWATER QUALITY HANDBOOKS, CONSTRUCTION CONTRACTOR'S GUIDE AND SPECIFICATIONS.
- DURING WET WEATHER PERIODS, CONTRACTOR IS RESPONSIBLE FOR SEQUENCING CONSTRUCTION IN A MANNER TO MINIMIZE IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ANY DEFICIENCIES INDICATED BY THE OWNER OR THE OWNERS REPRESENTATIVE TO PREVENT EROSION AND CONTROL SEDIMENT.
- PRIOR TO FINAL ACCEPTANCE AND IF REQUESTED BY THE OWNER, TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR. PERMANENT SITE VEGETATION WILL BE PROVIDED BY THE OWNER.
- AT A MINIMUM, THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION:
 - EC-1 SCHEDULING
 - NS-3 PAVING AND GRINDING OPERATIONS
 - NS-9 VEHICLE EQUIPMENT AND FUELING
 - WM-1 MATERIALS DELIVERY AND STORAGE
 - WM-2 MATERIAL USE
 - WM-4 SPILL PREVENTION AND CONTROL
 - WM-9 SANITARY/SEPTIC WASTE MANAGEMENT

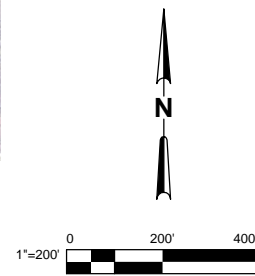
TRAFFIC CONTROL NOTES

- TEMPORARY TRAFFIC CONTROL MEASURES INCLUDING TEMPORARY LANE CLOSURES, SHALL BE CONSISTENT WITH CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE DETAILS IN THESE PLANS
- CONTRACTOR TO COORDINATE TRAFFIC CONTROL WITH THE KARUK TRIBE AND PROVIDE 48 HOURS NOTIFICATION PRIOR TO LANE CLOSURES.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AT ALL TIMES.

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										Drafting Check JW	Design Check JW	Project SPEED HUMP IMPROVEMENT PROJECT		
										Approved (Project Director) SAA		Title GENERAL NOTES		
										Date 8/8/12		Contract No. 0125712001		
										Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction	Original Size		
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date					Ansi D Drawing No: G2		Sheet 2 of 5	

SPEED HUMP	ROAD NAME	ROAD WIDTH	EDGE TREATMENT*	QUANTITY OF W17-1 SIGNS	W13-1P SIGNS	
					QUANTITY	DIRECTION FACING
1	JACOBS WAY	29 FT±	(1) RC, (1) AD	2	1	EAST
2	JACOBS WAY	24.5 FT±	(1) RC, (1)AD	2	0	
3	JACOBS WAY	24 FT±	(1) RC, (1) EP	2	0	
4	JACOBS WAY	25 FT±	(1) RC, (1) AD	2	1	WEST
5	SHAN D DR	23 FT±	(2) RC	2	1	WEST
6	SHAN D DR	22.5 FT±	(1) RC, (1) EP	2	1	EAST
TOTAL				12	4	

* AD = AC DIKE
EP = EDGE OF PAVEMENT
RC = ROLLED CURB
CG = CURB AND GUTTER

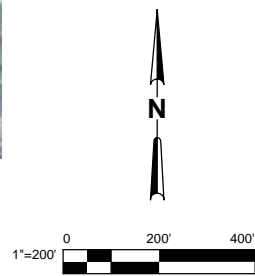


1 HAPPY CAMP, CALIFORNIA
C1 SCALE: 1" = 200'

SPEED HUMP	ROAD NAME	ROAD WIDTH	EDGE TREATMENT *	QUANTITY OF W17-1 SIGNS	W13-1P SIGNS	
					QUANTITY	DIRECTION FACING
7	BIG ROCK ROAD	33 FT±	(1) RC, (1) EP	2	1	SOUTH
8	BIG ROCK ROAD	33 FT±	(2) RC	2	0	
9	BIG ROCK ROAD	33 FT±	(1) RC, (1) EP	2	0	
10	AXAC COURT	33 FT±	(2) RC	2	0	
11	ELDERS LOOP ROAD	28.5 FT±	(2) RC	2	0	
12	ELDERS LOOP ROAD	28.5 FT±	(2) RC	2	0	
13	ELDERS LOOP ROAD	28 FT±	(2) RC	2	0	
14	ELDERS LOOP ROAD	27 FT±	(2) RC	2	0	
15	ASIP ROAD	30 FT±	(2) EP	2	1	SOUTH
TOTAL				18	2	

* AD = AC DIKE
EP = EDGE OF PAVEMENT
RC = ROLLED CURB
CG = CURB AND GUTTER

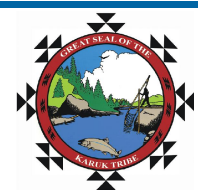
NOTE: THE ORLEANS SITES HAVE (E) SURFACE APPLIED SYNTHETIC SPEED BUMPS. CONTRACTOR SHALL REMOVE (E) SPEED HUMPS AND PROVIDE TO KARUK TRIBE.



2 ORLEANS, CALIFORNIA
C1 SCALE: 1" = 200'

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
-	-	-	-	-	-	-

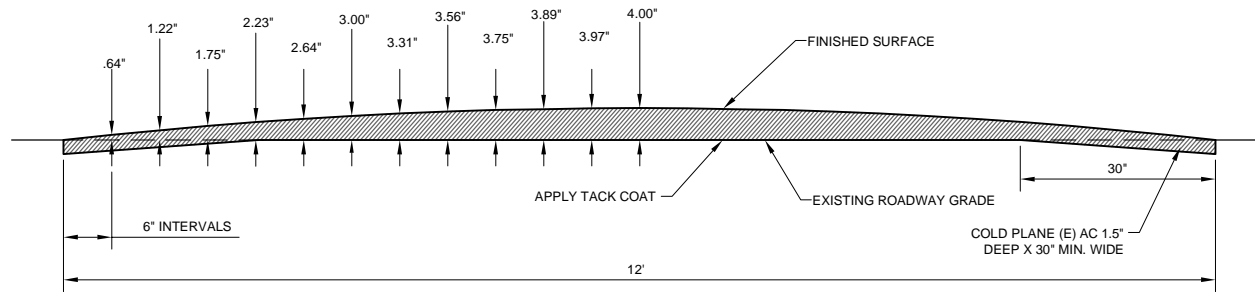
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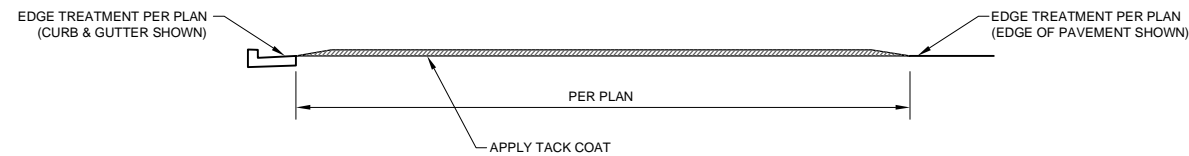
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Drawn SD	Designer JW
Drafting Check JW	Design Check JW
Approved (Project Director) SAA	Date 8/8/12
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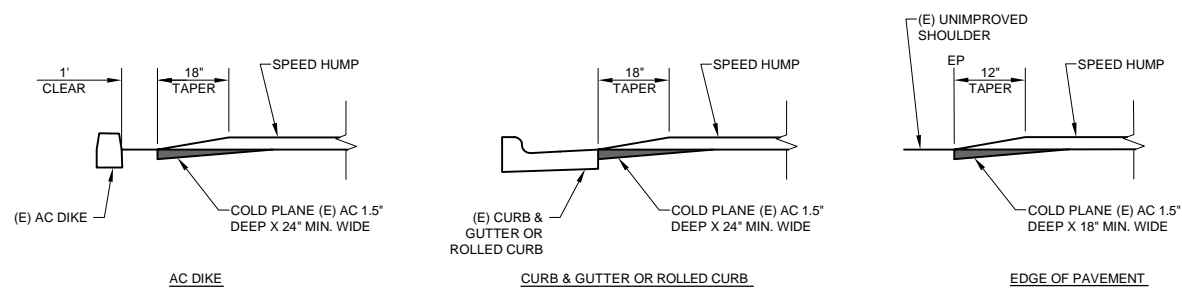
Client **KARUK TRIBE**
Project **SPEED HUMP IMPROVEMENT PROJECT**
Title **SITE PLANS**
Contract No. 0125712001
Original Size
Asn D Drawing No: C1



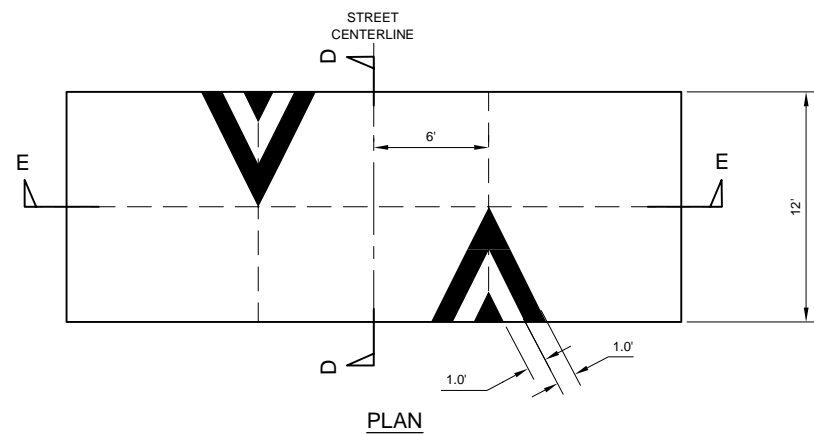
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SECTION E - E



EDGE TREATMENTS

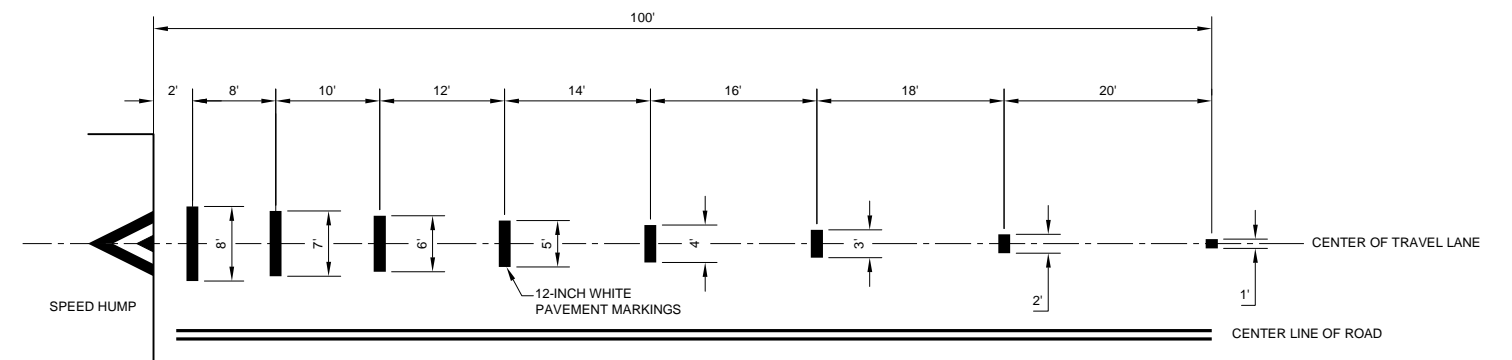


PLAN

NOTES:

1. SPEED HUMP PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND CONFORM TO THE CALIFORNIA MUTCD AND THE 2010 CALTRANS STANDARD SPECIFICATION.
2. SEE DETAIL $\frac{2}{C2}$ FOR SPEED HUMP ADVANCED WARNING MARKINGS.
3. HOT MIX ASPHALT SHALL BE 1/2\"/>

$\frac{1}{C2}$ PARABOLIC SPEED HUMP CONFIGURATION AND DETAILS
SCALE: NTS



NOTES:

1. ALL PAVEMENT MARKINGS AND STRIPES SHALL BE THERMOPLASTIC AND CONFORM TO THE CALIFORNIA MUTCD AND THE 2010 CALTRANS STANDARD SPECIFICATION.

$\frac{2}{C2}$ SPEED HUMP ADVANCE WARNING MARKINGS
SCALE: NTS



SPEED HUMP SIGN W17-1
30\"/>

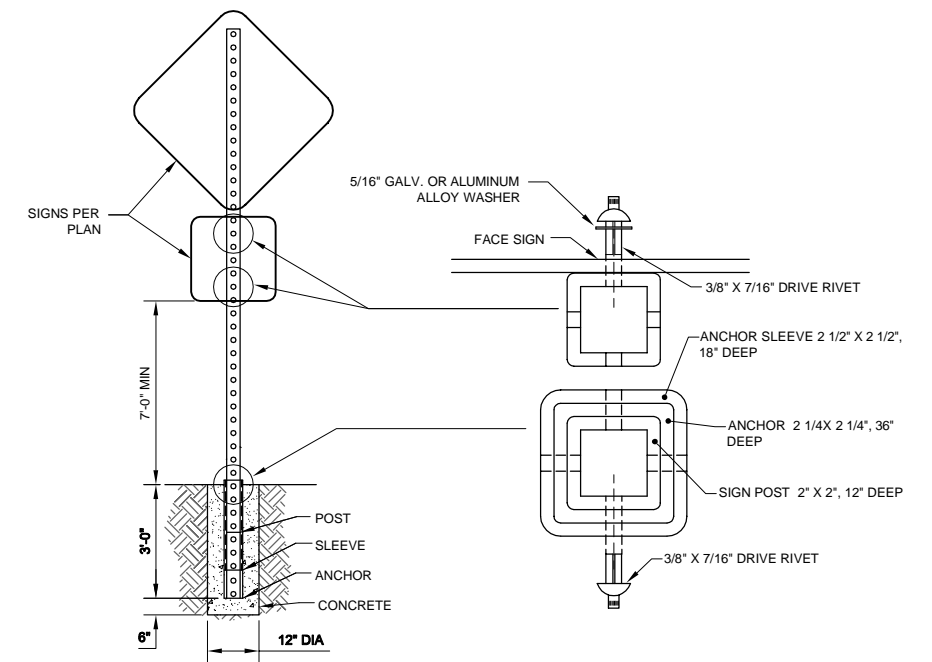


ADVISORY SPEED SIGN W13-1P
18\"/>

NOTES:

1. SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND THE 2010 CALTRANS STANDARD SPECIFICATIONS.
2. THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0\"/>

$\frac{3}{C2}$ SPEED HUMP SIGNS
SCALE: NTS



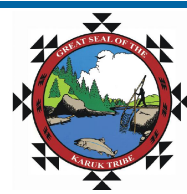
NOTES:

1. POST, SLEEVE AND ANCHOR SHALL BE 12 GAUGE HOT DIPPED GALVANIZED STEEL CONFORMING TO ASTM A653 DES. G90.

$\frac{4}{C2}$ TYPICAL SIGN POST
SCALE: NTS

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Drawn SD	Designer JW
Drafting JW	Design Check JW
Approved (Project Director) SAA	Date 8/8/12
Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction

Client **KARUK TRIBE**
Project **SPEED HUMP IMPROVEMENT PROJECT**
Title **PARABOLIC SPEED HUMP DETAILS**

Contract No. 0125712001

Original Size **AnsI D Drawing No: C2**

Sheet 4 of 5
Rev:

SHEET GENERAL NOTES

- CALIFORNIA CODE ARE DESIGNATED BY (CA). OTHERWISE, FEDERAL (MUTCD) CODES ARE SHOWN.
- A G20-2 "END ROAD WORK" SIGN, AS APPROPRIATE, SHALL BE PLACED AT THE END OF THE LANE CONTROL UNLESS THE END OF WORK AREA IS OBVIOUS, OR ENDS WITHIN A LARGER PROJECT'S LIMITS.
- WHEN A PILOT CAR IS USED, PLACE A C37 (CA) SIGN AT ALL INTERSECTIONS WITHIN TRAFFIC CONTROL AREA. WHERE VEHICULAR TRAFFIC CAN NOT EFFECTIVELY SELF-REGULATE, AT LEAST ONE FLAGGER SHALL BE USED AT EACH INTERSECTIONS WITHIN TRAFFIC CONTROL AREA.
- FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, FACING TRAFFIC AT ALL TIMES, BE VISIBLE TO APPROACHING TRAFFIC AS WELL AS APPROACHING VEHICLES AFTER THE FIRST VEHICLE HAS STOPPED. ENGINEER WILL DETERMINE IF ADDITIONAL ADVANCE FLAGGERS IS REQUIRED.
- WHEN FLAGGER IS NOT VISIBLE FROM THIS LOCATION PLACE A C29 (CA) SIGN BELOW THE C9A (CA) SIGN.
- TRAFFIC CONES OR BARRICADES MAY BE PLACED ON THE OPTIONAL TAPER AS SHOWN, BARRICADES SHALL BE TYPE I, II, OR III.

LEGEND	SIGN PANEL SIZE (MINIMUM)
● TRAFFIC CONE	A 48" x 48" - SPEED OF 45 mph OR MORE 36" x 36" - SPEED LESS THAN 45 mph
○ TRAFFIC CONE (OPTIONAL TAPER)	B 48" x 36" - SPEED OF 45 mph OR MORE 30" x 24" - SPEED LESS THAN 45 mph
⊥ TEMPORARY SIGN	C 48" x 24" - SPEED OF 45 mph OR MORE 36" x 18" - SPEED LESS THAN 45 mph
← DIRECTION OF TRAVEL	D 36" x 42"
☀ PORTABLE FLASHING BEACON	E 36" x 9"
👤 FLAGGER	

TABLES

TABLE 1

DISTANCE BETWEEN SIGNS

ROAD TYPE	Min A (ft)	Min B (ft)	Min C (ft)
URBAN (SPEED 25 mph OR LESS)	100	100	100
URBAN (SPEED 30 mph OR MORE)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

TABLE 2

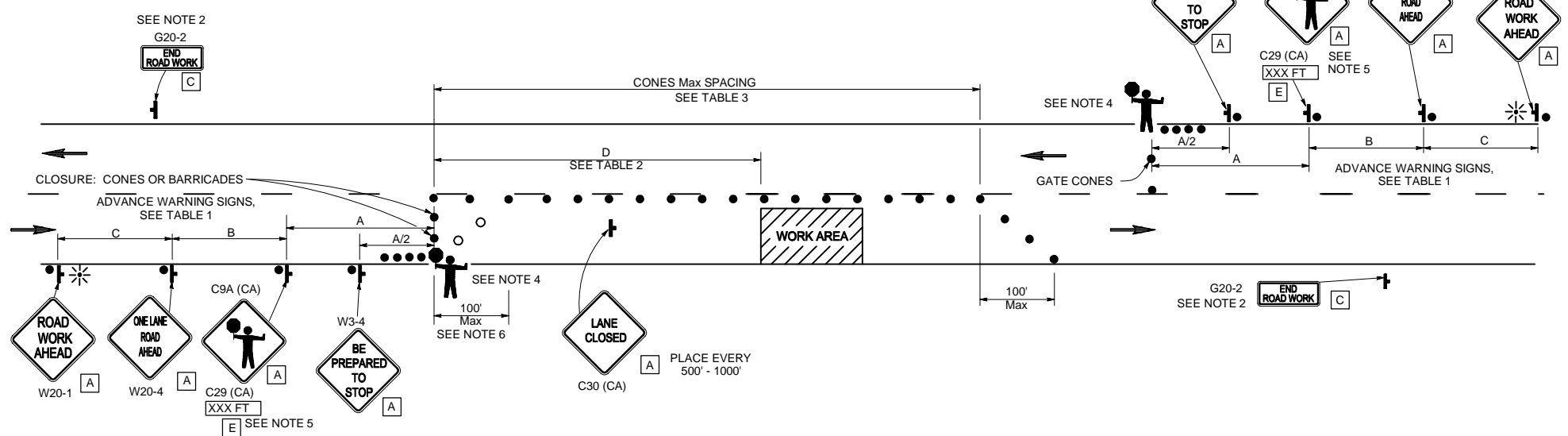
APPROACH SPEED	Min D	DOWNGRADE		
		Min D *		
mph	ft	-3%	-6%	-9%
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

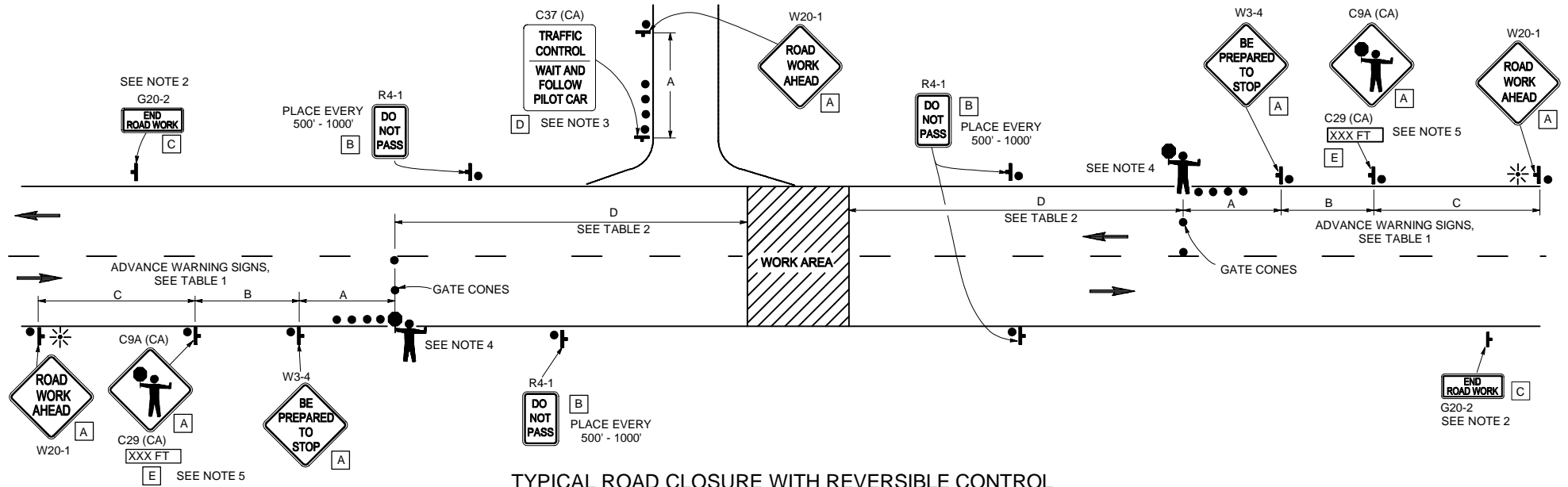
TABLE 3

CONES Max SPACING

POSTED SPEED	ft
20 mph	20
25 mph	25
30 mph	30
35 mph	35
40 mph	40
45 mph	45
50 mph	50
55 mph	55
60 mph	60
65 mph	65



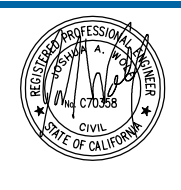
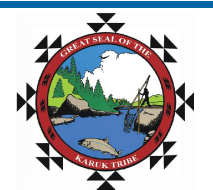
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL
NO SCALE



TYPICAL ROAD CLOSURE WITH REVERSIBLE CONTROL
NO SCALE

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

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Drawn SD	Designer JW
Drafting Check JW	Design Check JW
Approved (Project Director) SAA	Date 8/8/12
Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction

Client KARUK TRIBE	Contract No. 0125712001
Project SPEED HUMP IMPROVEMENT PROJECT	Original Size
Title TEMPORARY TRAFFIC CONTROL	Ans D Drawing No: C3
Sheet 5 of 5	Rev: 5