

## HCAOG 2022 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM (RTIP) – PROJECT CANDIDATE FORM

RTIP programming background:

If the project is on a State Highway, a Project Study Report (PSR) is required. If not, a PSR equivalent is required. The PSR equivalent at a minimum must be adequate to define and justify the project scope, cost and schedule. The PSR or PSR equivalent must be submitted with this programming request.

**PSR equivalent is attached**

Applicant Agency:

**County of Humboldt**

Project Title:

**Surface Rehabilitation and Overlay on Central Avenue (A4L800).**

Project Purpose: What transportation deficiency will this project address (safety, congestion, operations, plan implementation, etc.)? If a safety project, will the project reduce fatalities or number and severity of injuries?

**Central Avenue was the old Highway 101 until the 1970's when the current highway alignment was constructed. Central Avenue, classified as a minor arterial, is the business Highway 101 route and services the Humboldt County Airport and the communities of Dows Prairie and McKinleyville. It also links Beach Access to rural areas. Current vehicle counts in the reach addressed by this project study report are approximately 1,880 vehicles per day.**

Project Location (community name, corridor, street name, etc.):

**Central Avenue (A4L800) from the southerly terminus (Post Mile 3.87) at Grange Avenue to the northerly terminus (Post Mile 5.13) at Highway 101.**

Project Description:

**This project consists of pavement surface rehabilitation and overlay on Central Avenue. This Project Study Report (PSR) establishes the schedule and budget for the preliminary design, project development, environmental documentation, and right of way, and construction needed to rehabilitate and overlay the asphalt surfacing.**

Is the project in the 2017 RTP?

**Yes.**

Are you requesting State only funding?

Yes.

If a rehabilitation project, is it located on a federal-aid eligible road (higher than a local or minor collector road)? Link to Caltrans maps: [http://www.dot.ca.gov/hq/tsip/hseb/crs\\_maps](http://www.dot.ca.gov/hq/tsip/hseb/crs_maps)

Yes.

Provide Project Component funding needs:

Project Component	Cost Estimate	STIP Funding Request	Other fund contribution	Allocation Schedule
Environmental Studies & Permits	\$5000	\$5000	\$	04/2024
Plans, Specifications & Estimates	\$42,000	\$42,000	\$	09/2024
Right of Way	\$5000	\$5000	\$	10/2024
Construction & CM	\$1,137,000	\$1,137,000	\$	2025/2026
<b>Total</b>	\$1,189,000	\$1,189,000	\$	

Please describe any other relevant information about this project you feel will be useful in project selection. Additional attachments (i.e. maps, photos) may also be included with the submittal.

**Project Study Report (PSR)**

**To**

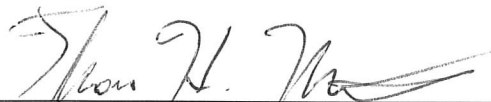
**Request Programming for Capital Support  
for  
Project Approval, Environmental Document, Right of  
Way, and Construction in the 2021 STIP**

On Route: Central Avenue (A4L800)  
Between PM 3.87 and 5.13 (Grange Road to Highway 101)

APPROVAL RECOMMENDED:

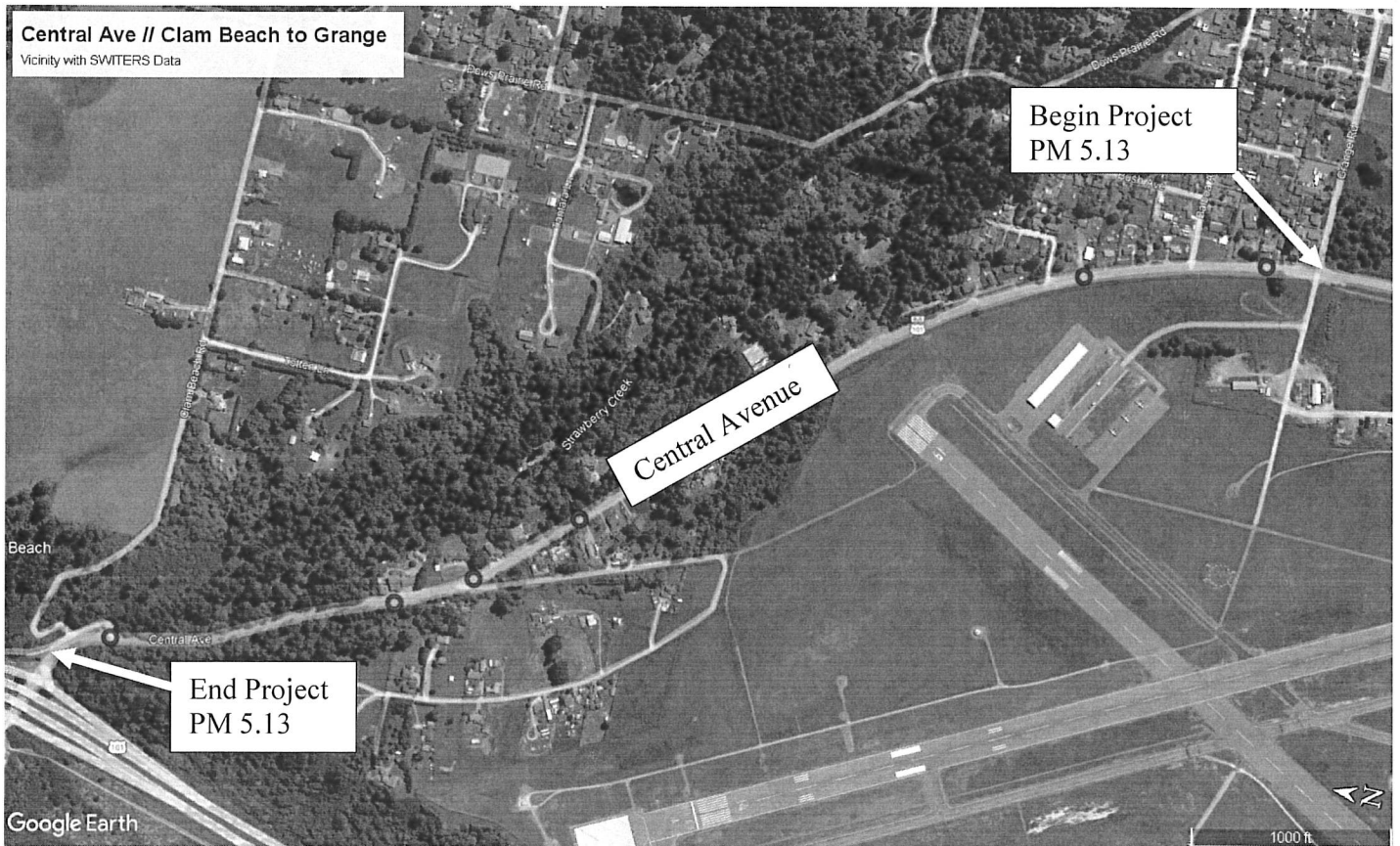
  
\_\_\_\_\_  
Project Manager

APPROVED:

  
\_\_\_\_\_  
Public Works Director

  
\_\_\_\_\_  
Date

## Vicinity Map



This project study report-project development support has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

*Tony Seghetti*  
Registered Civil Engineer

9/15/2021

Date



## **1. INTRODUCTION**

This project consists of preliminary engineering, environmental documentation, right of way and construction for an overlay project on Centra Avenue (A4L800). The project will overlay the existing roadway and upgrade the shoulders to current bicycle standards and provide new surfacing for the vehicle lanes. Portions of the roadway that show significant wear will be rehabilitated by grinding and replacing the asphalt. The project begins on Central Avenue Post Mile 3.87 at the intersection with Grange Road and ends at Post Mile 5.13 at the Highway 101 undercrossing. This PSR seeks state funding through the RTIP program.

## **2. BACKGROUND**

Central Avenue was the old Highway 101 until the 1970's when the current highway alignment was constructed. Central Avenue, classified as a minor arterial, is the business Highway 101 route and services the Humboldt County Airport and the communities of Dows Prairie and McKinleyville. It is also a link to the Hammond trail and Clam Beach camping and recreation areas. Current vehicle counts in the reach addressed by this project study report are approximately 1,880 vehicles per day.

## **3. PURPOSE AND NEED**

This portion of Central Avenue has not been rehabilitated since it was accepted into the county road system in the 1970's. The shoulders are failing and unusable for bicyclists. Current counts in the reach addressed by this project study report are approximately 1,800 per day. The asphalt surfacing has areas with alligator cracking which is evidence of excessive wear on the road. Existing lane widths and shoulder widths vary. Class II bike lanes require 6' width for traffic speeds over 40 mph. This paving project will be able to address the pavement failures and upgrade the bike lanes to current standards with striping.

## **4. TRAFFIC ENGINEERING PERFORMANCE ASSESSMENT**

Collision Analysis:

Collision summary – SWITRS (Attachment 2)

ADT of 1,885 on September 14<sup>th</sup>, 2007, at Post Mile 3.83 (Attachment 3)

Peak Period (Hourly) of 197 Veh/Hour at 16:57-17:56, September 13<sup>th</sup>, 2007, at Post Mile 5.13.

## **5. DEFICIENCIES**

Bike lanes are not to current width standards. Lane striping is worn out and does not meet current standards. Northbound and southbound travel lanes have several areas with failed surfacing.

## **6. CORRIDOR AND SYSTEM COORDINATION**

Coordination with road users, commuters, and emergency vehicles is necessary. Public notifications through various media, including radio, local newspaper, county website, and changeable message signs will be implemented once the project is advertised and awarded for construction.

## **7. ALTERNATIVES**

A1: Full project: Overlay and grind out in specified areas and bike lane striping and markings. Note: All proposed work is expected to comply with current design standards

A2: Bike lanes Phase: HDM 301.2 Class II Bikeway Lane Width. Bike lane width 5' versus 6' width. 6' width may require widening which may trigger additional environmental studies severely delaying project. Vehicle lane width may need to be reduced to 12' or 11' or 10'. This may have a traffic calming effect, but reducing lane width narrows the vehicle recovery zone in an area prone to slippery surfaces. Rain and frost plague this stretch of Myrtle Avenue is a main contributor to accidents.

A3: Grind out and replace hot mix asphalt phase. This is needed to address the existing failing asphalt in the travel lanes. The longevity of the overlay is dependent upon the quality of the existing surface below it.

## **8. RIGHT-OF-WAY**

Permanent and temporary easements will not be required for staging or stockpiling. All work will be within existing right of way. Large staging and stockpile areas are located at Ryan Slough and at Freshwater Road.

Utilities such as water valves and gas valves will need to be adjusted to final grade of overlay. Utility companies will be notified and coordinated with during the design phase and during construction.

## **9. STAKEHOLDER INVOLVEMENT**

MCSD is the owner of the water system that runs within the county right of way with several valves and other related facilities. PG&E has underground gas system with valves and other underground facilities. Public road is used by commuters and emergency vehicles and is integral to the community. County DPW roadway maintenance yard is located nearby at the Humboldt County Airport.

## **10. ENVIRONMENTAL COMPLIANCE**

The proposed project is within current pavement limits so impacts to the environment will be limited. The proposed project does not increase the capacity of the roadway.

Environmental documents will be prepared in compliance with the California Environmental Quality Act (CEQA). Preliminary indications are that this project qualifies for Categorical Exemption, but contingencies are in place to prepare Initial Study documentation as necessary.

## 11. FUNDING

This project seeks state only funding. The following is a summary of the estimate of project costs:

Environmental Studies	\$ 5,000
Design (PS&E) Phase	\$ 42,000
Right-of-Way Phase	\$ 5,000
Construction & CM Phase	\$ 1,137,000
Requested Allocation Total	<u>\$ 1,189,000</u>

## 12. DELIVERY SCHEDULE

This proposal seeks sufficient **state-only** funds to cover the project costs. The following is a tentative milestone schedule for the completion of the project:

Project Study Report Approved			12/31/21
Environmental Document	Document Type	CE	04/01/24
Design (PS&E) Complete			09/01/24
Right of Way Clearance			10/01/24
Construction			04/01/25

## 13. RISKS

Low Risk since the project complies with current standards.

## 14. EXTERNAL AGENCY COORDINATION

California Department of Transportation

## 15. PROJECT REVIEWS

Maintenance	McKinleyville PW	Date
Project Manager	Engineering PW	Date
Constructability Review	Construction PW	Date

## 16. PROJECT PERSONNEL

Agency:	Humboldt County Department of Public Works
Contact Person:	Tony Seghetti
Phone No.:	(707) 445-7377
Address:	1106 Second Street Eureka, CA 95501



**17. ATTACHMENTS (NUMBER OF PAGES)**

Attachment 1	Cost Estimate (1)
Attachment 2	SWITRS Collision Mapping (2)
Attachment 3	Traffic Count Data (4)

## ATTACHMENT 1 - COST ESTIMATE

### HUMBOLDT COUNTY ~~ DEPARTMENT OF PUBLIC WORKS PROJECT ESTIMATE OF COST

Project No. RTIP PSR 2021  
Description: CENTRAL AVENUE OVERLAY FROM HWY 101 TO GRANGE  
Contract No. NA

ITEM NO.	ITEM CODE	U E	ITEM DESCRIPTION	UNIT PAY	QUANTITY	UNIT PRICE	TOTAL
1	120090		CONSTRUCTION AREA SIGNS	LS	1	\$ 4,000.00	\$ 4,000
2	120100		TRAFFIC CONTROL SYSTEM	LS	1	\$ 40,000.00	\$ 40,000
3	128651		PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	2	\$ 8,000.00	\$ 16,000
4	130100		JOB SITE MANAGEMENT	LS	1	\$ 2,000.00	\$ 2,000
5	130200		PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1	\$ 3,000.00	\$ 3,000
6	130620		TEMPORARY DRAINAGE INLET PROTECTION	EA	2	\$ 200.00	\$ 400
7	190185		SHOULDER BACKING	TON	398	\$ 80.00	\$ 31,840
8	390132		HOT MIX ASPHALT (TYPE A)	TON	4,380	\$ 170.00	\$ 744,600
9	398200		COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	10,520	\$ 10.00	\$ 105,200
10	780250		ADJUST MONUMENT COVER TO GRADE	EA	3	\$ 400.00	\$ 1,200
11	780254		ADJUST ACCESS BOX FRAME AND COVER (UTILITY)	EA	2	\$ 400.00	\$ 800
12	820840		ROADSIDE SIGN - ONE POST	EA	10	\$ 400.00	\$ 4,000
13	840502		THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	20,590	\$ 1.00	\$ 20,590
14	840515		THERMOPLASTIC PAVEMENT MARKING	SQFT	480	\$ 10.00	\$ 4,800
15	810230		PAVEMENT MARKER (RETROREFLECTIVE)	EA	572	\$ 10.00	\$ 5,720
16	999990		MOBILIZATION	LS	1	\$ 49,850.00	\$ 49,850

Construction	\$ 1,034,000
PE (5%)	\$ 52,000
CM(10%)	\$ 103,000

<b>Total</b>	<b>\$ 1,189,000</b>
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## ATTACHMENT 2 SWITRS COLLISION MAPPING



### COLLISION DATA

COLLISION_DATE	PRIMARY_RD	SECONDARY_RD	DISTANCE	COLLISION_SEVERITY	NUMBER_KILLED	NUMBER_INJURED	PRIMARY_COLL_FACTOR	TYPE_OF_COLLISION	LATITUDE	LONGITUDE
9/14/2009	CENTRAL AV	LITTLE RIVER DR	31	1	1	0	A	E	40.99319	-124.1119
12/20/2010	CENTRAL AV	KJER RD	630	2	0	1	A	G	40.98707	-124.10802
12/24/2015	CENTRAL AV	BALBOA BLVD	528	4	0	1	A	D	40.98265	-124.10276
8/26/2016	CENTRAL AV	KJER RD	114	3	0	1	A	B	40.9883	-124.10946
5/19/2019	CENTRAL AV	KJER RD	300	4	0	1	A	D	40.98926163	-124.1100922
1/28/2018	CENTRAL AV	GRANGE ROAD	265	4	0	1	A	B	40.97872162	-124.1006927

**ATTACHMENT 3 TRAFFIC COUNTS**

## Weekly Volumes

Unit ID: RD86429  
Location: Central Ave.# A4L800 pm.3.83

Week of 09/13/2007

Start Time	09/13 Thursday		09/14 Friday		09/15 Saturday		09/16 Sunday		09/17 Monday		09/18 Tuesday		09/19 Wednesday		Daily Average	
	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB
00:00	-	-	5	4	9	8	7	10	4	3	-	-	-	-	6	6
01:00	-	-	5	2	8	6	6	4	6	1	-	-	-	-	6	3
02:00	-	-	3	2	4	2	5	3	0	1	-	-	-	-	3	2
03:00	-	-	0	5	1	0	1	1	3	5	-	-	-	-	1	3
04:00	-	-	6	11	2	4	1	2	6	8	-	-	-	-	4	6
05:00	-	-	9	12	8	9	2	4	7	11	-	-	-	-	7	9
06:00	-	-	14	14	6	10	10	12	21	24	-	-	-	-	13	15
07:00	-	-	53	37	20	16	17	19	43	21	-	-	-	-	33	23
08:00	-	-	44	59	27	39	36	25	58	88	-	-	-	-	41	53
09:00	38	39	51	50	45	46	43	78	31	27	-	-	-	-	42	48
10:00	31	56	42	66	60	73	56	99	-	-	-	-	-	-	47	74
11:00	48	63	60	66	58	81	52	70	-	-	-	-	-	-	55	70
12:00	54	79	53	70	50	84	64	93	-	-	-	-	-	-	55	82
13:00	54	88	61	59	74	83	70	75	-	-	-	-	-	-	65	76
14:00	47	80	54	80	93	87	55	95	-	-	-	-	-	-	62	86
15:00	65	100	46	103	61	89	59	76	-	-	-	-	-	-	58	92
16:00	57	105	66	83	65	95	60	89	-	-	-	-	-	-	62	93
17:00	72	121	68	113	53	73	53	64	-	-	-	-	-	-	62	93
18:00	52	67	59	77	58	77	52	72	-	-	-	-	-	-	55	73
19:00	47	68	41	62	46	44	35	30	-	-	-	-	-	-	42	51
20:00	23	31	19	40	22	42	7	28	-	-	-	-	-	-	18	35
21:00	12	21	11	27	30	26	21	17	-	-	-	-	-	-	19	23
22:00	16	16	14	27	12	22	10	10	-	-	-	-	-	-	13	19
23:00	13	13	15	17	12	12	3	3	-	-	-	-	-	-	11	11
Lane Total	629	947	799	1086	824	1028	725	979	179	189	-	-	-	-	780	1046
Day Total		1576		1885		1852		1704		368						1826
AM Peak	09:24	10:34	07:14	10:34	09:53	10:30	10:39	09:41	07:44	07:51	-	-	-	-	11:00	10:00
AM Count	53	75	61	78	64	81	67	124	65	89	-	-	-	-	55	74
PM Peak	16:57	16:54	16:41	17:08	13:33	16:20	12:14	14:05	-	-	-	-	-	-	13:00	16:00
PM Count	73	123	75	121	106	106	75	101	-	-	-	-	-	-	65	93

## Weekly Volumes

Unit ID: RD86442  
Location: Central Ave.# A4L800 pm.5.05

Week of 09/13/2007

Start Time	09/13 Thursday		09/14 Friday		09/15 Saturday		09/16 Sunday		09/17 Monday		09/18 Tuesday		09/19 Wednesday		Daily Average	
	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB
00:00	-	-	8	2	10	10	9	8	5	1	-	-	-	-	8	5
01:00	-	-	3	3	3	6	3	3	5	3	-	-	-	-	4	4
02:00	-	-	2	4	3	2	4	2	1	2	-	-	-	-	3	3
03:00	-	-	1	4	3	0	4	0	1	6	-	-	-	-	2	3
04:00	-	-	5	11	4	3	1	3	4	6	-	-	-	-	4	6
05:00	-	-	10	13	6	9	3	5	7	16	-	-	-	-	7	11
06:00	-	-	13	28	6	12	6	8	19	40	-	-	-	-	11	22
07:00	-	-	38	57	22	22	8	21	38	46	-	-	-	-	27	37
08:00	-	-	34	70	25	50	27	31	43	72	-	-	-	-	32	56
09:00	31	38	48	66	37	47	37	63	42	44	-	-	-	-	39	52
10:00	47	62	53	62	49	70	55	51	-	-	-	-	-	-	51	61
11:00	41	60	61	71	49	73	61	57	-	-	-	-	-	-	53	65
12:00	51	64	54	63	69	65	73	76	-	-	-	-	-	-	62	67
13:00	48	82	66	58	82	63	71	72	-	-	-	-	-	-	67	69
14:00	66	72	58	75	63	75	60	95	-	-	-	-	-	-	62	79
15:00	75	85	54	90	57	78	63	69	-	-	-	-	-	-	62	81
16:00	71	82	76	69	80	98	65	80	-	-	-	-	-	-	73	82
17:00	88	108	63	105	55	78	56	61	-	-	-	-	-	-	66	88
18:00	60	65	64	64	57	70	62	55	-	-	-	-	-	-	61	64
19:00	59	61	47	51	54	34	54	36	-	-	-	-	-	-	54	46
20:00	35	22	25	23	33	27	28	21	-	-	-	-	-	-	30	23
21:00	27	12	17	17	28	18	25	13	-	-	-	-	-	-	24	15
22:00	24	17	26	16	14	14	14	4	-	-	-	-	-	-	20	13
23:00	11	8	19	14	19	8	4	1	-	-	-	-	-	-	13	8
Lane Total	734	838	845	1036	828	932	793	835	165	236	-	-	-	-	835	960
Day Total	1572		1881		1760		1628		401		-		-		1795	
AM Peak	09:42	10:11	10:19	10:45	09:41	10:31	10:42	08:56	08:52	07:19	-	-	-	-	11:00	11:00
AM Count	65	75	66	79	53	76	71	64	53	74	-	-	-	-	53	65
PM Peak	16:56	16:57	16:19	16:50	12:32	16:17	12:12	14:00	-	-	-	-	-	-	16:00	17:00
PM Count	89	108	81	109	98	99	80	95	-	-	-	-	-	-	73	88