

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:

Rehabilitation, Overlay, and Bicycle Improvements on Myrtle Avenue (F3K300).

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?

Myrtle Avenue traveled way is vulnerable to premature failure due to the unstable subgrade, high ADT, and the truck use. Current counts in the reach addressed by this project study report are approximately 6,900 per day. The asphalt surfacing has areas with alligator cracking, which is evidence of excessive wear on the road.

This project will enhance safety for bicycles and vehicles by providing a safe bike lane connection between communities. Existing shoulder widths vary but in general are 4' wide. 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 upgrading the bike lanes to current standards with striping.

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

The project begins on Myrtle Avenue (F3K300) Post Mile 2.68 at Pigeon Point Road and ends at Post Mile 3.77 north of the Freshwater Bridge.

Project Description:

This project consists of preliminary engineering, environmental documentation, right of way and construction for an overlay project on Myrtle Avenue (F3K300). 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.

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

Yes.

Provide Project Component funding needs:

Project Component	Cost Estimate	STIP Funding Request	Other fund contribution	Allocation Schedule
Environmental Studies & Permits	\$12,000	\$12,000	\$	04/01/2024
Plans, Specifications & Estimates	\$25,000	\$25,000	\$	09/01/2024
Right of Way	\$3,000	\$3,000	\$	10/01/2024
Construction	\$870,000	\$870,000	\$	04/01/2025
Total	\$910,000	\$910,000	\$	

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: Myrtle Avenue (3K100)
Between PM 2.68 and 3.77 (Pigeon Point Road and Freshwater Road)

APPROVAL RECOMMENDED:



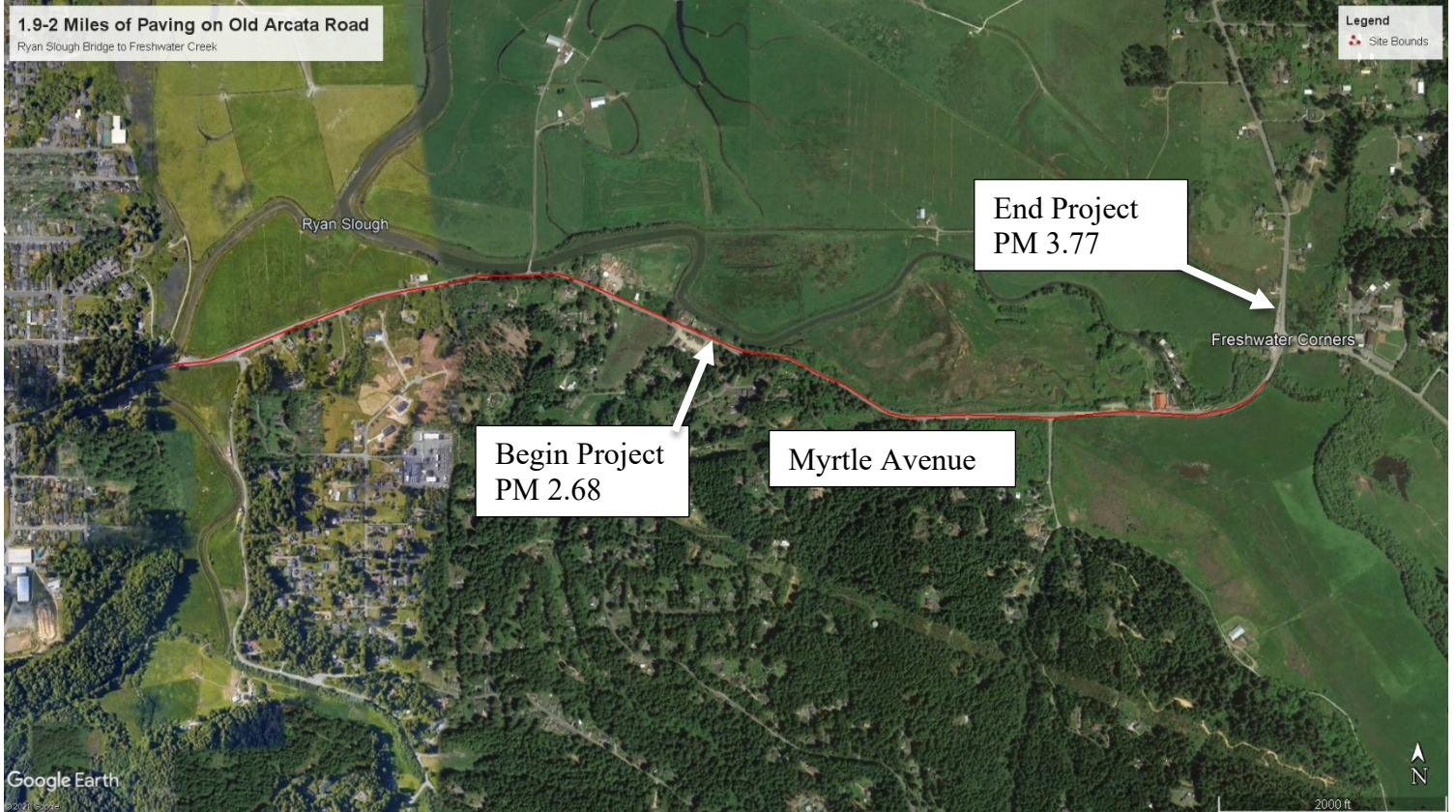
Project Manager

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.


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 Myrtle Avenue (F3K300). 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 Myrtle Avenue Post Mile 2.68 at Pigeon Point Road and ends at Post Mile 3.77 north of the Freshwater Bridge. This PSR seeks state funding through the RTIP program.

2. BACKGROUND

Myrtle Avenue connects the rural communities of Freshwater, Kneeland, Mitchell Heights to Arcata and Eureka and is classified as a major collector. In recent years the Department of Public Works has upgraded the bike lanes of adjoining segments of Myrtle Avenue. This project will enhance safety for bicycles and vehicles by providing a safe bike lane connection between communities.

3. PURPOSE AND NEED

Myrtle Avenue traveled way is vulnerable to premature failure due to the unstable subgrade, high ADT, and the truck use. Current counts in the reach addressed by this project study report are approximately 6,900 per day. The asphalt surfacing has areas with alligator cracking, an evidence of excessive wear on the road. Existing shoulder widths vary but in general are 4' wide. Class II bike lanes require 6' width for traffic speeds over 40mph. This paving project will be able to address the pavement failures and upgrading the bike lanes to current standards with striping.

4. TRAFFIC ENGINEERING PERFORMANCE ASSESSMENT

Collision Analysis:

Collision summary – SWITRS, Attachment 2

ADT of 6963 on November 29th, 2011, at Post Mile 3.54 (Attachment 3)

Peak Period (Hourly) of 725 Veh/Hour at 07:35-08:34, November 29th, 2011, at Post Mile 3.54.

Truck Traffic accounts for approximately 3% of total ADT.

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. Guardrails that protect vehicles from the slough are not up to current standards. The county was recently awarded a guardrail HSIP project to make upgrades throughout the county including this portion on Myrtle Avenue.

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, bike lane striping and markings, and minor drainage improvements. 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.

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, gas valves, and communication vaults 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

HCSD is the owner of the water system that runs within the county right of way with several valves and other related facilities. City of Eureka may have a separate water system in or near the county right of way. PG&E has underground gas system with valves and other underground facilities. Communication companies such as SuddenLink and AT&T have underground and above ground fiber optics. Public road is used by commuters and emergency vehicles and is integral to the community. County DPW roadway maintenance yard is located nearby in Freshwater.

10. ENVIRONMENTAL COMPLIANCE

The proposed project is within existing roadway prism 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	\$ 12,000
Design (PS&E) Phase	\$ 25,000
Right of Way	\$ 3,000
Construction & CM Phase	\$ 870,000
Requested Allocation Total	\$ 910,000

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
Design (PS&E) Complete		04/01/24
Right of Way Clearance		09/01/24
Construction		10/01/24
		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 _____	Freshwater 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 Counts (1)

ATTACHMENT 1 - COST ESTIMATE

HUMBOLDT COUNTY ~ DEPARTMENT OF PUBLIC WORKS
PROJECT ESTIMATE OF COST

Project No. **RTIP PSR 2021**
 Description: **MYRTLE AVENUE OVERLAY FROM RYAN SLOUGH TO FRESHWATER**
 Contract No. **NA**

ITEM NO.	ITEM CODE	U.F.	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	\$ 80,000.00	\$ 80,000
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	20	\$ 200.00	\$ 4,000
7	190185		SHOULDER BACKING	TON	166	\$ 80.00	\$ 13,280
8	390132		HOT MIX ASPHALT (TYPE A)	TON	3,030	\$ 170.00	\$ 515,100
9	398200		COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	7,350	\$ 10.00	\$ 73,500
10	780250		ADJUST MONUMENT COVER TO GRADE	EA	16	\$ 400.00	\$ 6,400
11	780254		ADJUST ACCESS BOX FRAME AND COVER (UTILITY)	EA	11	\$ 400.00	\$ 4,400
12	820840		ROADSIDE SIGN - ONE POST	EA	14	\$ 400.00	\$ 5,600
13	840501		THERMOPLASTIC TRAFFIC STRIPE	LF	11,490	\$ 1.00	\$ 11,490
14	840502		THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	5,740	\$ 1.00	\$ 5,740
15	840515		THERMOPLASTIC PAVEMENT MARKING	SQFT	350	\$ 10.00	\$ 3,500
16	810230		PAVEMENT MARKER (RETROREFLECTIVE)	EA	479	\$ 10.00	\$ 4,790
17	999990		MOBILIZATION	LS	1	\$ 38,200.00	\$ 38,200
						Construction	\$ 791,000
						PE (5%)	\$ 40,000
						CM(10%)	\$ 79,000
						Total	\$ 910,000

ATTACHMENT 2 SWITRS COLLISION MAPPING



COLLISION_DATE	PRIMARY_RD	SECONDARY_RD	COLLISION_SEVERITY	NUMBER_KILLED	NUMBER_INJURED	TYPE_OF_COLLISION	LATITUDE	LONGITUDE
2/9/2009	MYRTLE AV	DEVOY RD		3	0	1 E		
10/31/2011	MYRTLE AV	TOWER DR		4	0	1 C		
2/1/2012	MYRTLE AV	FRESHWATER RD		3	0	1 B		
9/13/2013	MYRTLE AV	SPEAR AV		4	0	1 E	40.78624	-124.10571
3/15/2014	MYRTLE AV	PIGEON POINT RD		3	0	1 E	40.70462	-124.10003
4/5/2014	MYRTLE AV	FRESHWATER RD		4	0	1 D	40.78555	-124.08533
7/8/2014	MYRTLE AV	MITCHELL RD		2	0	1 E	40.78594	-124.11629
2/19/2015	MYRTLE AV	MITCHELL RD		4	0	3 C	40.78489	-124.12012
3/26/2015	MYRTLE AV	FRESHWATER RD		3	0	2 F	40.78365	-124.08686
8/25/2015	MYRTLE AV	MITCHELL HEIGHTS DR		4	0	2 D	40.78612	-124.11511
5/29/2016	MYRTLE AV	PIGEON POINT RD		3	0	1 H	40.78546	-124.10355
6/28/2016	MYRTLE AV	TOWER DRIVE		4	0	1 C	40.78631	-124.10618
7/15/2016	MYRTLE AV	FELT ROAD		4	0	1 H	40.78372	-124.09074
9/22/2016	MYRTLE AV	FRESHWATER RD		3	0	1 D	40.78534	-124.08539
12/7/2016	MYRTLE AV	FRESHWATER RD		3	0	2 D	40.78515	-124.08544
5/13/2017	MYRTLE AV	DEVOY RD		2	0	1 E	40.78707	-124.10832
8/4/2017	MYRTLE AV	FRESHWATER ROAD		4	0	1 D	40.78526	-124.08455
2/28/2018	MYRTLE AV	BETTIE LN		1	1	0 A	40.78356934	-124.0974426
3/11/2018	MYRTLE AV	FRESHWATER ROAD		2	0	1 B	40.78601837	-124.0854187
9/30/2018	MYRTLE AV	TOWER ROAD		3	0	3 C	40.78604889	-124.1054688
12/13/2018	MYRTLE AV	FRESHWATER RD		4	0	1 D	40.7853508	-124.0849533
1/30/2019	MYRTLE AV	MITCHELL HEIGHTS DR		4	0	1 C	40.78501129	-124.118721
7/16/2019	MYRTLE AV	FRESHWATER RD		3	0	1 F	40.78546906	-124.0854492
10/31/2020	MYRTLE AV	PIGEON POINT ROAD		2	0	1 E	40.78503036	-124.1020508

ATTACHMENT 3 TRAFFIC COUNTS

Weekly Volumes

Unit ID: HUMBOLT COUNTY
 Location: Myrtle ave. # F3K300 pm. 3.54

Week of 11/28/2011

Start Time	11/28 Monday		11/29 Tuesday		11/30 Wednesday		12/01 Thursday		12/02 Friday		12/03 Saturday		12/04 Sunday		Daily Average	
	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB
00:00	-	-	13	12	7	3	15	13	-	-	-	-	-	-	12	9
01:00	-	-	5	8	9	10	8	8	-	-	-	-	-	-	7	8
02:00	-	-	7	5	9	7	8	4	-	-	-	-	-	-	8	5
03:00	-	-	5	3	8	6	6	5	-	-	-	-	-	-	6	5
04:00	-	-	11	7	7	4	8	8	-	-	-	-	-	-	9	6
05:00	-	-	31	21	34	22	27	14	-	-	-	-	-	-	31	19
06:00	-	-	86	57	86	42	66	38	-	-	-	-	-	-	79	46
07:00	0	0	286	167	265	133	273	153	-	-	-	-	-	-	206	113
08:00	0	0	401	239	414	222	396	237	-	-	-	-	-	-	303	175
09:00	8	9	183	154	187	132	217	158	-	-	-	-	-	-	149	113
10:00	191	124	207	155	194	124	196	143	-	-	-	-	-	-	197	137
11:00	204	142	215	160	181	149	-	-	-	-	-	-	-	-	200	150
12:00	197	162	227	172	205	190	-	-	-	-	-	-	-	-	210	175
13:00	212	209	209	190	227	188	-	-	-	-	-	-	-	-	216	196
14:00	269	234	263	256	267	281	-	-	-	-	-	-	-	-	266	257
15:00	314	253	311	278	327	317	-	-	-	-	-	-	-	-	317	283
16:00	296	311	334	285	304	322	-	-	-	-	-	-	-	-	311	306
17:00	247	265	270	286	263	314	-	-	-	-	-	-	-	-	260	288
18:00	135	151	150	160	139	188	-	-	-	-	-	-	-	-	141	166
19:00	111	85	87	121	128	127	-	-	-	-	-	-	-	-	109	111
20:00	60	63	85	76	84	85	-	-	-	-	-	-	-	-	76	75
21:00	60	66	58	64	54	70	-	-	-	-	-	-	-	-	57	67
22:00	24	28	45	22	50	35	-	-	-	-	-	-	-	-	40	28
23:00	16	19	23	16	20	18	-	-	-	-	-	-	-	-	20	18
Lane Total	2344	2121	3512	2914	3469	2989	1220	778	-	-	-	-	-	-	3230	2756
Day Total		4465		6426		6458		1998								5986
AM Peak	11:00	10:58	07:41	07:35	07:39	07:36	07:37	07:36	-	-	-	-	-	-	08:00	08:00
AM Count	204	145	449	281	451	246	433	267	-	-	-	-	-	-	303	175
PM Peak	14:30	16:32	16:20	16:28	14:39	16:26	-	-	-	-	-	-	-	-	15:00	16:00
PM Count	341	330	359	335	345	351	-	-	-	-	-	-	-	-	317	306