



SURFACE TRANSPORTATION PROGRAM

PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

Graham County

Safford Bryce Road from 8th Avenue Roundabout to Reay Lane

INTRODUCTION

This project will reconstruct Safford Bryce Road from the roundabout at 8th Avenue to Reay Lane. The project will recycle the top one inch of asphalt concrete and overlay with an additional 2 inches of new asphalt concrete. The roadway is 26 feet wide and approximately four miles long.

BACKGROUND

Much of the current roadway was constructed in approximately 1947 with right of way of 66'. The typical existing structural section is a 26' asphalt roadway consisting of multiple chip seals, 2 inches of asphalt, 3 inches aggregate base course and 6 inches select material. In 2010 the Peterson Wash crossing was improved with a new concrete box culvert. In the near future a roundabout at the intersection of Safford Bryce Road, Airport Road and 8th Avenue will be constructed; this project is at the east end of the proposed project. On the west end of the proposed project, the intersection of Reay Lane and Safford Bryce Road will be realigned, design phase to be complete in 2015.

There are no major structures in conflict with the project. There are no railroad crossings within the project limits. Some minor electrical and phone utility line relocation may be required. The crossing at Talley Wash may need to be addressed. Safford-Bryce Road ADT is 2267.

PROJECT SCOPE

The project would recycle one inch of the existing asphalt. The overlay would be 2 inches of new asphalt placed over the recycled asphalt.

PROJECT DEVELOPMENT CONSIDERATIONS

1. *Environmental requirements as determined by the project scope.*
 - Potential Hazardous Waste sites, we are aware of none
 - 404 Permit requirements;
 - Section 4(f) lands;
 - Floodplain encroachment;
 - No wetlands within the project
 - This road is not a scenic or historic Route



SURFACE TRANSPORTATION PROGRAM

PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

- Archeological investigation will be done to obtain an archeological clearance.
- Social and economic impact for this project;

2. Critical Outside Agency Involvement

This project will involve Freeport McMoRan Mining, City of Safford Landfill, CTI Trucking and Open Loop Energy to coordinate the flow of traffic during construction. No issues are contemplated.

3. Right-of-Way Requirements

The 66' of right-of-way for the roadway was obtained during construction of Project #S-12, ADOT, Graham County in 1947. It is anticipated that the County will not need to purchase additional right-of-way.

4. Utility Relocation Requirements

Power line relocation of approximately 5 poles will be required. Fire hydrant relocation will be required, gas line cover will be increased but no relocation anticipated.

5. Seasonal Considerations

The Talley Wash crossing will need to be monitored during monsoon season.

6. Traffic Requirements

The construction and improvements along this section of road will require a traffic control plan. No traffic signals are anticipated.

7. Design Concept Report Requirements

The Design will be to follow the original road alignment.

8. Design Criteria

The design criteria for this project will incorporate ADOT Materials guidelines.



SURFACE TRANSPORTATION PROGRAM

PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

F. OTHER REQUIREMENTS

The funding source for this project will be Federal funds. The desired bid advertisement date is December 2018. Construction start date will be March 2019. The project plans will be developed by the County. ADOT will perform the construction administration.

G. ESTIMATED COST

Describe the Project Cost by Category

- Design cost will be paid by local funding.
- No right-of-way costs are anticipated.
- Utility relocation costs to be paid for by the utility company.
- Construction cost to be reimbursed with federal funds.
- Total cost of the project will be about \$1,216,193.

H. ITEMIZED ESTIMATE

An itemized estimate is attached to this report. (See page 4)

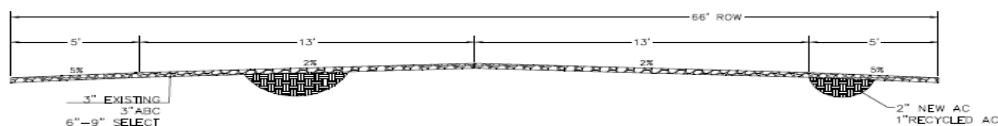
I. VICINITY MAP

A vicinity map is attached to this report. (See page 5)

J. TYPICAL SECTION SKETCH

TYPICAL ROADWAY SECTION
NTS

SAFFORD BRYCE ROAD





SURFACE TRANSPORTATION PROGRAM

PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

Safford Bryce Road PROJECT COST ESTIMATE

ITEM	UNIT	QTY	UNIT PRICE	TOTAL PRICE
Paving – 1” Recycle + 2” AC Overlay	SY	60,700	\$12.00	\$728,400.00
Traffic Control/Barricading	Ls	1	\$60,000.00	\$60,000.00
Traffic Paint, 4” yellow	LF	8,400	\$0.13	\$1,092.00
Traffic Paint, 6” white	LF	12,600	\$0.13	\$1,638.00
Traffic Paint, 4” white	LF	5,000	\$0.13	\$650.00
SUBTOTAL ROADWAY				\$791,780.00
Construction Survey (1% - 3%)*	L. Sum			\$7,300.00
Furnish Water Supply, Dust Palliative (1 - 2%)*	L. Sum			\$14,635.00
Traffic Control (8%)*	L. Sum			\$58,542.00
Mobilization (10%)*	L. Sum			\$73,178.00
Quality control (1 – 2%)*	L. Sum			\$14,635.00
Contingencies (15%)*	L. Sum			\$109,767.00
Construction Engineering (15%)*	L. Sum			\$109,767.00
Change Orders (5%)*	L. Sum			\$36,589.00
				\$424,413.00
CONSTRUCTION TOTAL				\$1,216,193.00
INFLATION FACTOR (4% 5/YR) X Cost. Total = Future Year Cost				\$1,479,685.00

* Percentages are averages based on past construction history for Arizona.



SURFACE TRANSPORTATION PROGRAM

PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

Safford Bryce Road Location Map

