

NCDOT Regional Traffic Safety Project File No. – 06-18-54474

Location: SR 1006 (Clinton Road) at Plymouth Street, in the City of Fayetteville

Proposed Treatment: Convert Intersection to All-Way Stop

Existing Conditions: Clinton Road and Plymouth Street are both two-lane roads that cross to form a four-leg intersection. Plymouth Street is under stop sign control and is maintained by the City. The speed limit is 35mph on both roads, and there is an existing overhead flasher.

Statement of Problem: This location is on the 2018 and 2017 Highway Safety Improvement Program (HSIP) list due to Frontal Impact crashes. There is a pattern of frontal impact crashes, most of which involve motorists failing to yield. A ten-year study revealed 24 total crashes between 01/01/2008 and 12/31/2017. Twenty-one of those crashes were Angles or some other type of Frontal Impact.

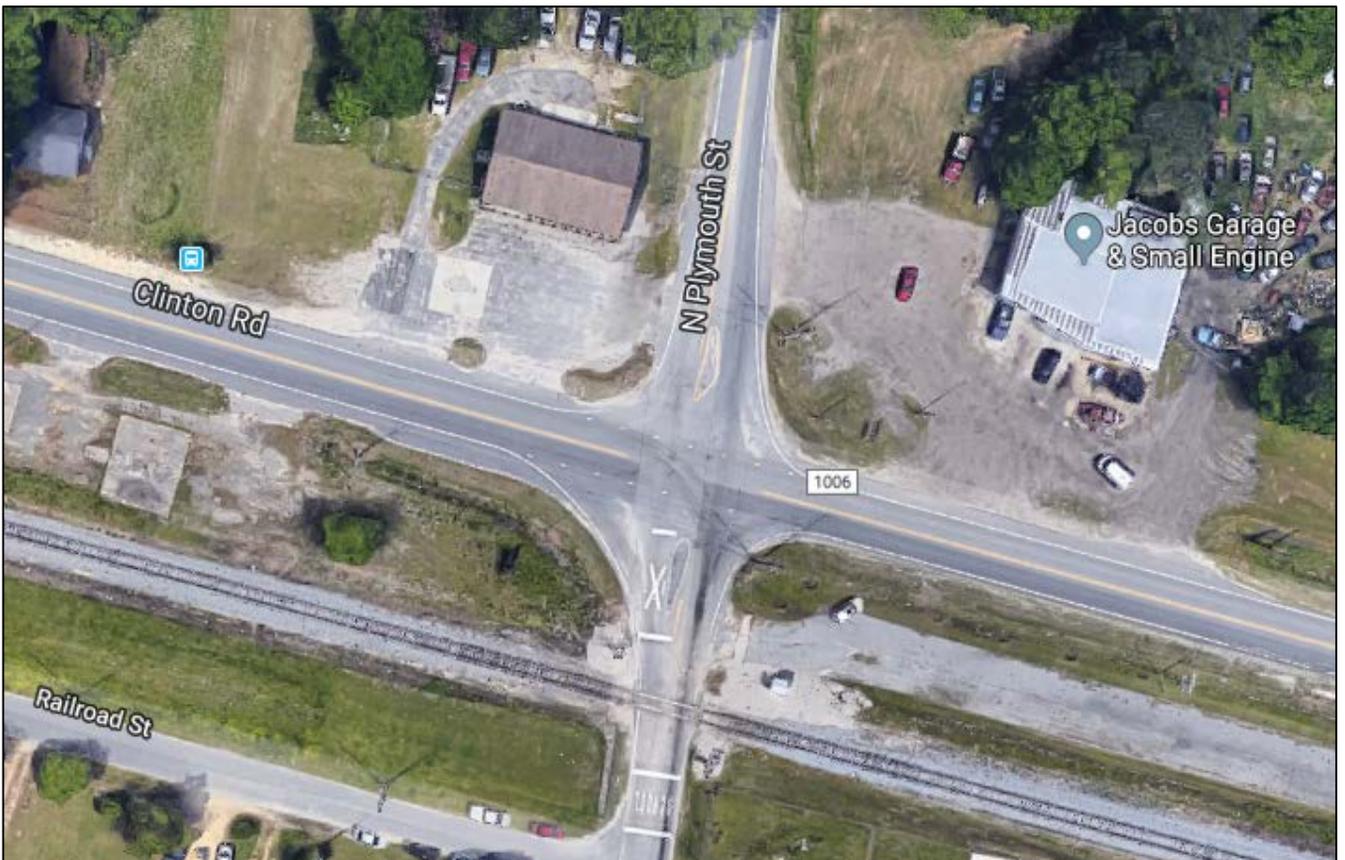
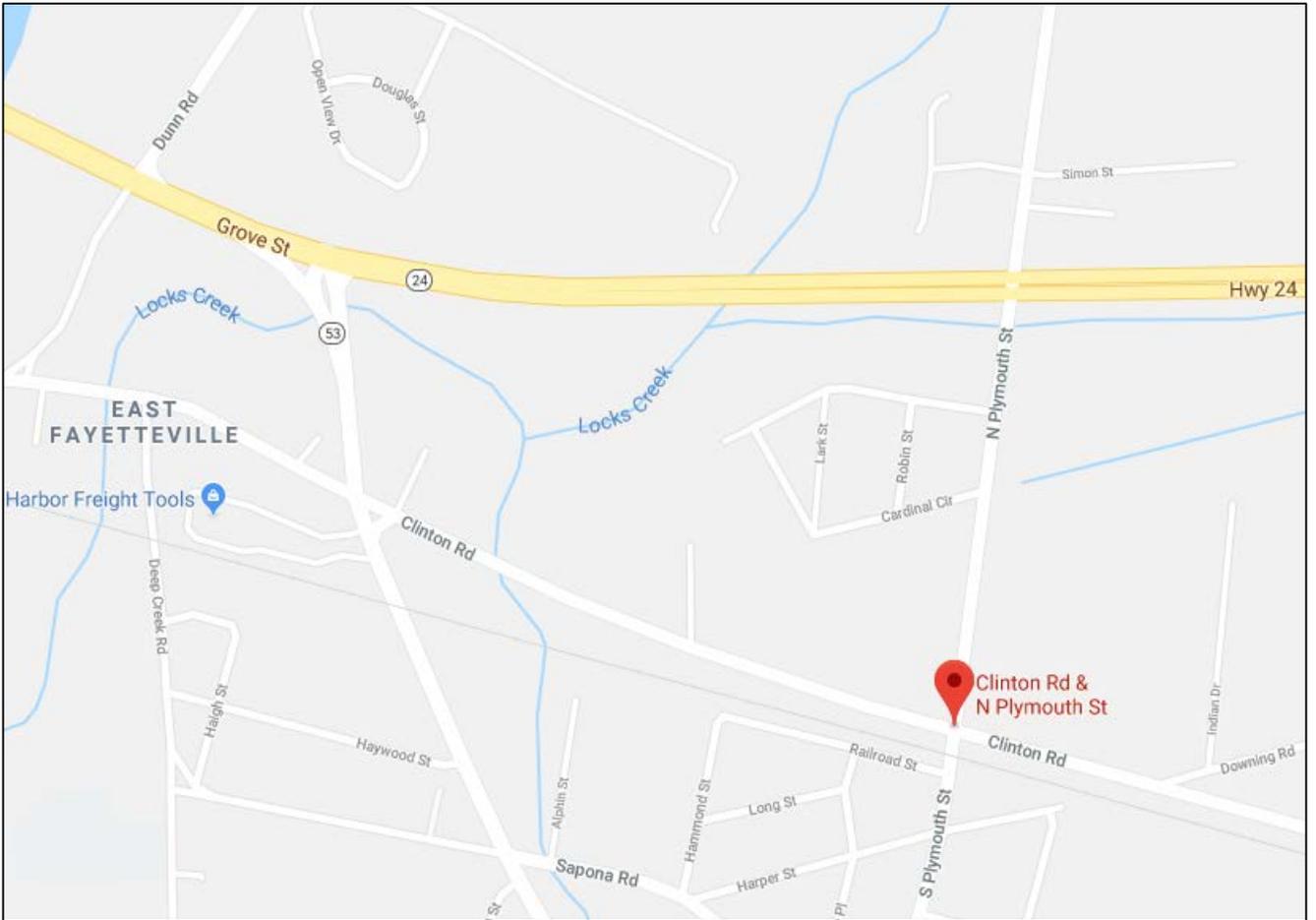
Benefit: The proposed treatment has an 87% crash reduction factor (CRF) to total injury Crashes for converting an intersection to All-Way Stop, with an existing overhead flasher. The Benefit/Cost Ratio for this project is 42.01.

Please see the attached supporting documents:

- Map
- Collision Diagram
- Crash Summary
- Cost Estimate

Cumberland Co. – SR 1006 (Clinton Rd) at Plymouth St)

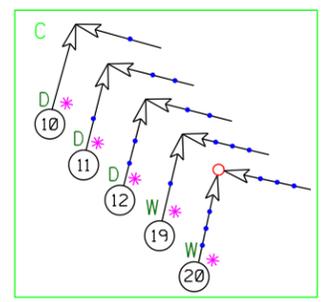
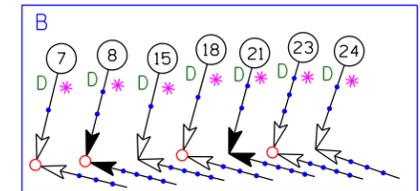
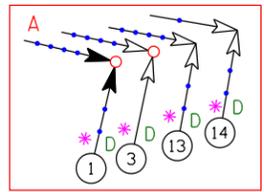
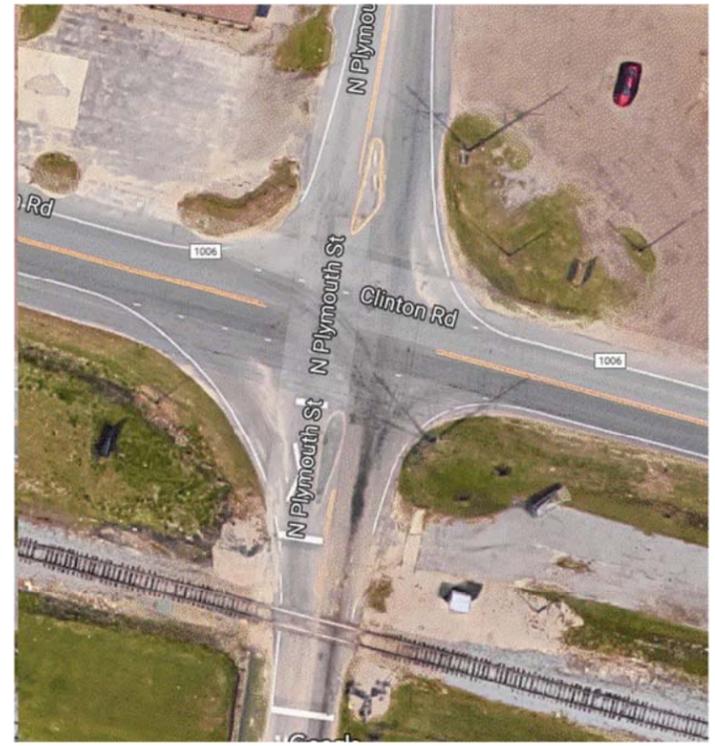
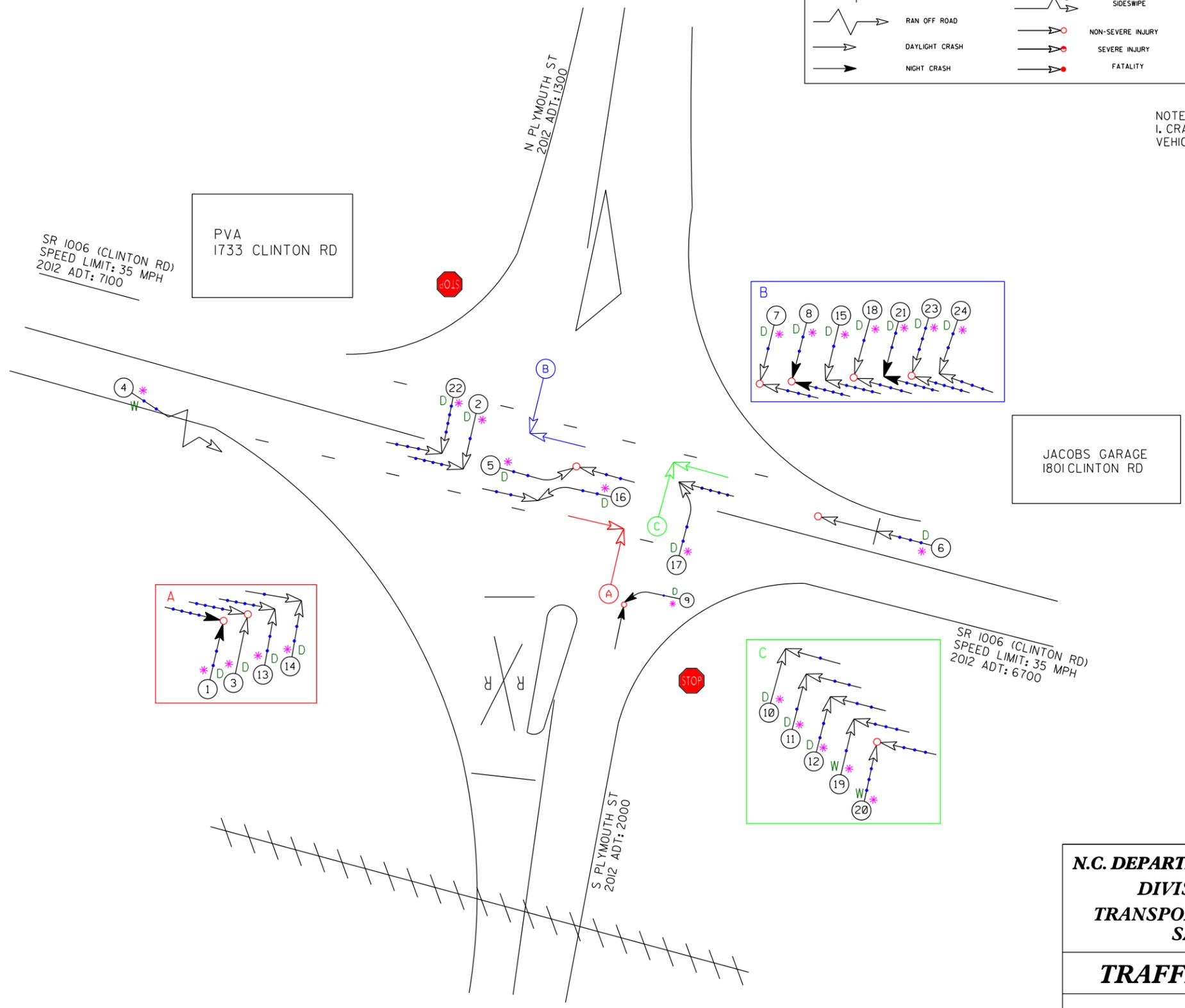
Safety Project
06-18-54474



PH#25100651
 ORDER#41000051092
 SR 1006 (CLINTON RD)
 AT PLYMOUTH ST,
 IN FAYETTEVILLE
 CUMBERLAND COUNTY
 1/1/2008-12/31/2017

LEGEND							
	MOVING VEHICLE		ANGLE		9 MPH OR LESS		A ANIMAL
	PARKED VEHICLE		TURNING		10 MPH TO 19		P PEDESTRIAN
	PARKING VEHICLE		BACKING		20 MPH TO 29		B BICYCLE
	MOVABLE OBJECT		SIDESWIPE		30 MPH TO 39		T TRAIN
	HEAD ON		NON-SEVERE INJURY		40 MPH TO 49		* DRIVER AT FAULT
	REAR END		SEVERE INJURY		50 MPH TO 59		D DRY
	RAN OFF ROAD		FATALITY		60 MPH TO 69		W WET
	DAYLIGHT CRASH		SPEED UNKNOWN		70 AND UP		I ICY OR SNOWY
	NIGHT CRASH				Other		O Other

NOTES:
 1. CRAH ID#4: VEHICLE SWERVED TO AVOID
 VEHICLE THAT PULLED OUT AT A STOP SIGN.



SIGNAL ID:
06-0077

N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
TRANSPORTATION MOBILITY and SAFETY DIVISION

TRAFFIC SAFETY UNIT

Date: JANUARY 2018 Prepared By: K.HARRISON

CRASH SUMMARY
SR 1006 (Clinton Road) at Plymouth Street

06-18-54474
3-Apr-18

Based on TEAAS: 41000051092
10 YRS, from 01/01/2008 - 12/31/2017

#	Crash ID	Date	Time	Angle	LTDR	LTSR	ROR	Rear end	F	A	B	C	P	Comments
1	102256628	02/05/08	21:05	1								1		NB Plymouth w/ EB Clinton
2	102259439	02/10/08	14:13	1									1	SB Plymouth w/ EB Clinton
3	102425668	10/02/08	11:36	1								1		Ran stop sign NB Plymouth w/ EB Clinton
4	102496688	12/11/08	13:00				1						1	ROR EB Clinton
5	102582641	04/28/09	15:56			1						1		EB Clinton LT w/ WB Clinton
6	102917791	07/21/10	11:50					1				1		WB Clinton RE
7	102997884	10/28/10	15:16	1								1		SB Plymouth w/ WB Clinton
8	103071611	01/03/11	23:06	1								1		SB Plymouth w/ WB Clinton
9	103149529	04/27/11	23:09		1							1		WB Clinton w/ NB Plymouth
10	103196030	07/08/11	15:27	1								1		Ran stop sign NB Plymouth w/ WB Clinton
11	103295206	11/03/11	14:20	1								1		NB Plymouth w/ WB Clinton
12	103401497	03/14/12	16:53	1								1		NB Plymouth w/ WB Clinton
13	103829657	07/20/13	10:03	1								1		NB Plymouth w/ EB Clinton
14	104113843	06/06/14	7:38	1								1		NB Plymouth w/ EB Clinton
15	104343740	03/28/15	13:05	1								1		SB Plymouth w/ WB Clinton
16	104638939	12/13/15	14:44			1						1		WB Clinton LT w/ EB Clinton
17	104633760	01/03/16	9:44		1							1		NB Plymouth LT w/ WB Clinton
18	104809338	07/18/16	16:32	1								1		SB Plymouth w/ WB Clinton
19	104906596	09/29/16	7:59	1								1		NB Plymouth w/ WB Clinton
20	104906580	09/29/16	16:32	1							1			NB Plymouth w/ WB Clinton
21	104995158	12/28/16	17:08	1								1		SB Plymouth w/ WB Clinton
22	105058427	03/08/17	17:54	1								1		SB Plymouth w/ EB Clinton
23	105381224	05/12/17	16:43	1								1		SB Plymouth w/ WB Clinton
24	105393032	07/12/17	20:18	1								1		SB Plymouth w/ WB Clinton

18 2 2 1 1 0 0 1 9 14
K A B C P

North Carolina Department of Transportation
Preliminary Estimate

Safety Project
06-18-54474

TIP No.

Prel.

County:

Cumberland

Route

Clinton Road

From

at Plymouth St

Typical Section

All-way Stop

CONSTR. COST

\$15,000

Prepared By: Neil Butler

10/10/2018

Requested By: Janet Whetstone-Perez

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			Signing and Markings	1	LS	\$ 10,500.00	\$ 10,500.00

Contract Cost \$ 10,500.00
E. & C. 15% \$ 1,500.00
\$ 12,000.00

P.E. Cost \$ 1,000.00

ROW Cost \$ 1,000.00

Utilities Cost \$ 1,000.00

Construction Cost \$ 15,000.00