

SHEET NO. EX-01

PROJECT	400 SOUTH & PUERTO DRIVE	**CITY OF IVINS**	PRELIMINARY
	ROUNDABOUT	HORROCKS	NOT FOR CONSTRUCTION
PROJECT NUMBER	PIN	APPROVED	8/19/2024
EXHIBIT		PROFESSIONAL ENGINEER / DATE	DRAWN BY / QC CHECKED BY

Intersection 400 South & Puerto Drive

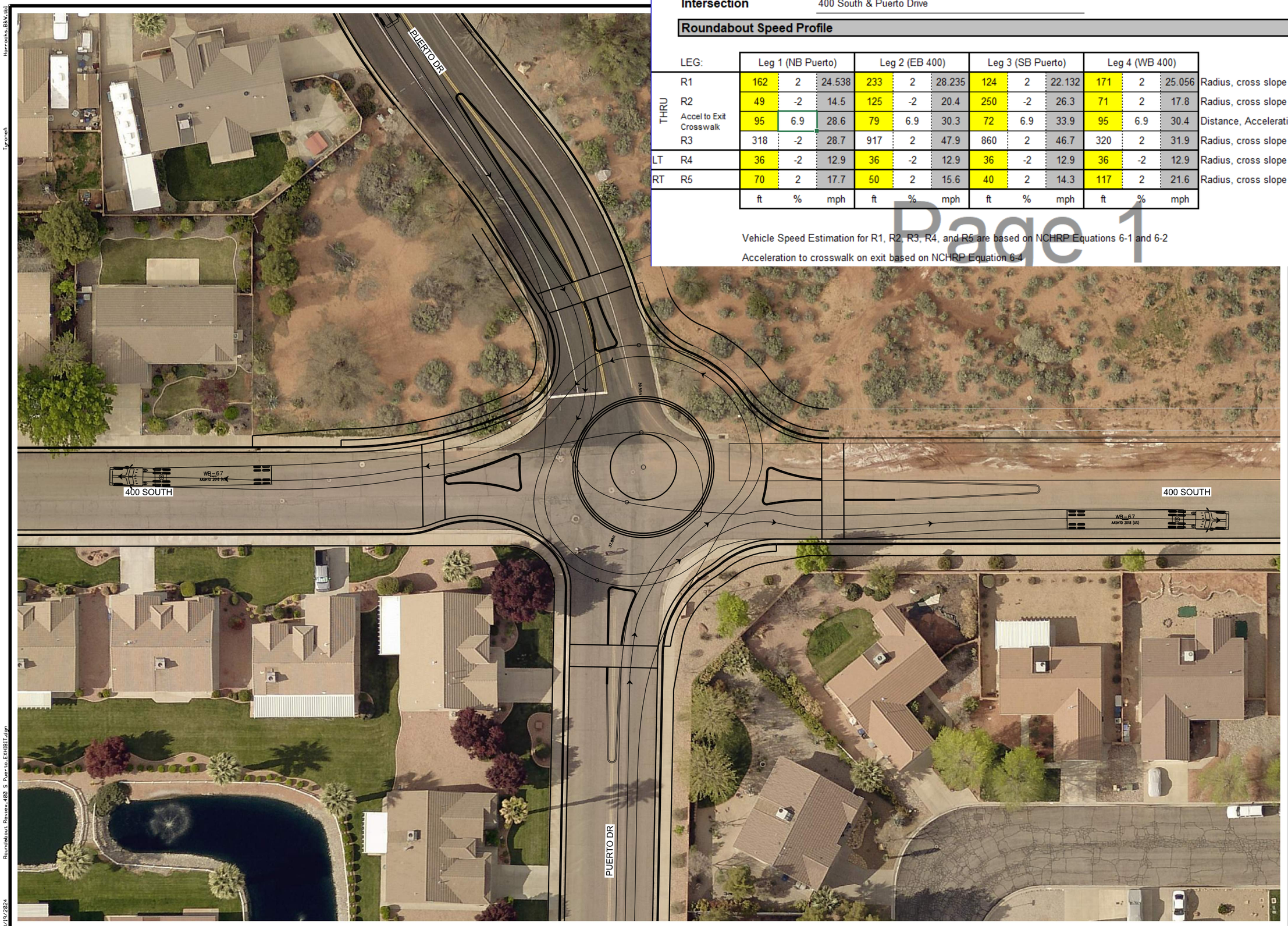
Roundabout Speed Profile

	LEG:	Leg 1 (NB Puerto)			Leg 2 (EB 400)			Leg 3 (SB Puerto)			Leg 4 (WB 400)			
THRU	R1	162	2	24.538	233	2	28.235	124	2	22.132	171	2	25.056	Radius, cross slope (e), Speed (V)
THRU	R2	49	-2	14.5	125	-2	20.4	250	-2	26.3	71	2	17.8	Radius, cross slope (e), Speed (V)
THRU	Accel to Exit Crosswalk	95	6.9	28.6	79	6.9	30.3	72	6.9	33.9	95	6.9	30.4	Distance, Acceleration rate (a), Speed (V)
THRU	R3	318	-2	28.7	917	2	47.9	860	2	46.7	320	2	31.9	Radius, cross slope (e), Speed (V)
LT	R4	36	-2	12.9	36	-2	12.9	36	-2	12.9	36	-2	12.9	Radius, cross slope (e), Speed (V)
RT	R5	70	2	17.7	50	2	15.6	40	2	14.3	117	2	21.6	Radius, cross slope (e), Speed (V)
		ft	%	mph	ft	%	mph	ft	%	mph	ft	%	mph	

Page 1

Vehicle Speed Estimation for R1, R2, R3, R4, and R5 are based on NCHRP Equations 6-1 and 6-2

Acceleration to crosswalk on exit based on NCHRP Equation 6-4



CITY OF IVINS
HORROCKS

DRAWN BY			
QC CHECKED BY			
DATE			

APPROVED

PROFESSIONAL ENGINEER

400 SOUTH & PUERTO DRIVE
ROUNDABOUT

PROJECT

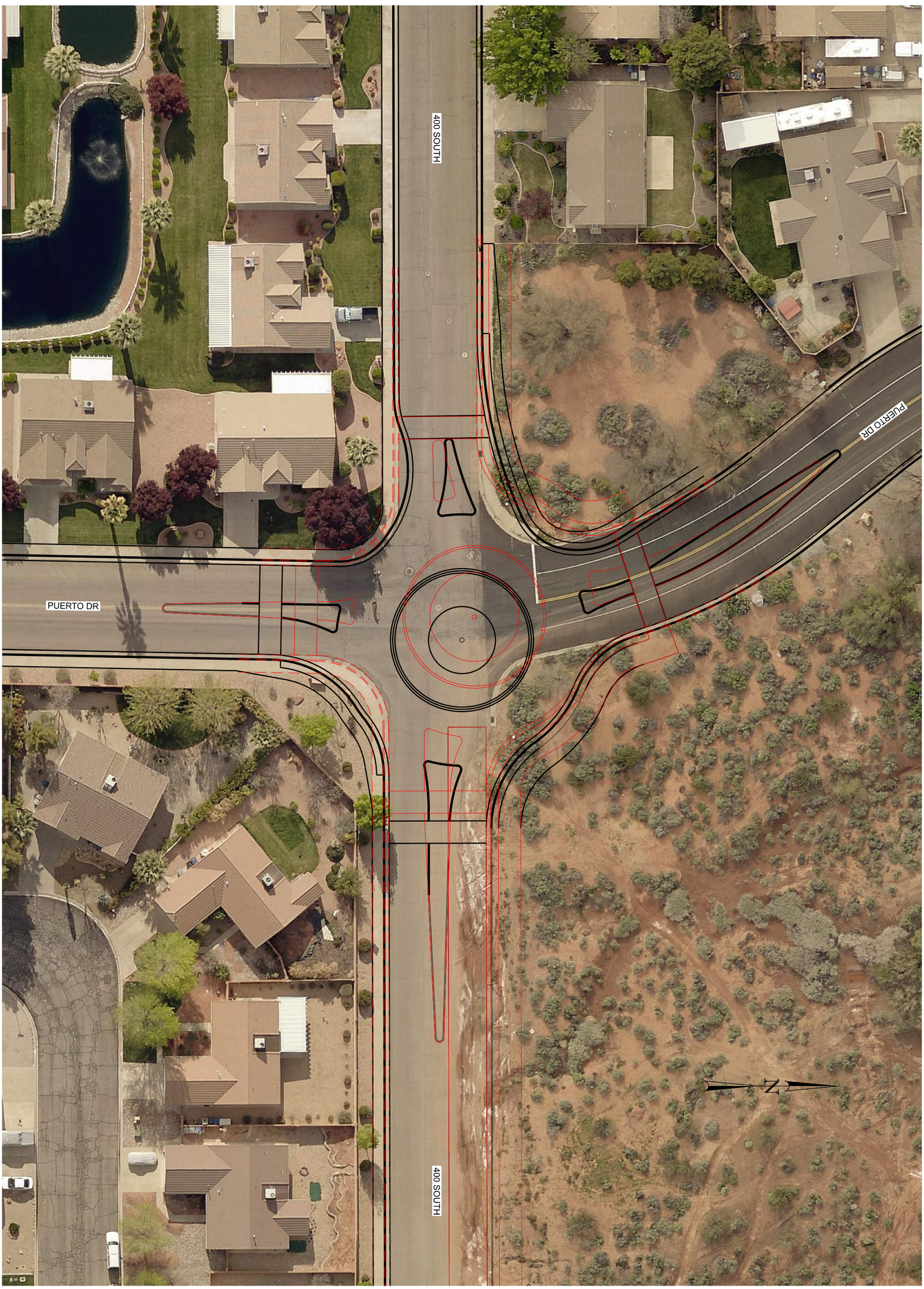
PROJECT NUMBER

PIN

EXHIBIT

SHEET NO. EX-01

Horrocks.B&W.tbl
TyroneA
Roundabout Review 400 S Puerto_EXHIBIT.dgn
8/19/2024



SHEET NO. EX-01

PROJECT	400 SOUTH & PUERTO DRIVE	**CITY OF IVINS**	PRELIMINARY
	ROUNDABOUT	HORROCKS	NOT FOR CONSTRUCTION
PROJECT NUMBER	PIN	APPROVED	DRAWN BY
EXHIBIT		PROFESSIONAL ENGINEER / DATE	QC CHECKED BY

8/19/2024