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SIDRA SOLUTIONS

INTERMEDIATE WORKSHOP

DAY 1 CONTENTS

Introduction to the Workshop

SIDRA INTERSECTION Introduction

Workshop objectives, software status, principles and philosophy.

Example - Roundabout with Bus Slip/Bypass Lane

Modified roundabout geometry and Volume data entry.
"Include Slip/Bypass Lane in Entry Lane Count" parameter.

Discussion

Approach Distance. Lane Control and Lane Type.
Roundabout geometry parameters. Strip Islands and Splitter Islands.

Using SIDRA INTERSECTION:

Signal Timing Analysis in SIDRA INTERSECTION

EQUISAT (Fixed-Time / SCATS) and Actuated timing analysis,
Signal Coordination, Common Control Group (CCG) timing analysis,
Pedestrians, Variable Phasing, Phase Actuation,
Undetected movements, Dummy movements.

Using SIDRA INTERSECTION:

Example - Signalised Intersection EQUISAT (Fixed-Time / SCATS) Timing Analysis

One-way streets. Bus lane. Free Queue.
User-specified Phase Times. Practical and Optimum Cycle Times. Variable Run.

Using SIDRA INTERSECTION:

Example - Stop-Sign Controlled Intersection

Upstream Signal Effect (bunching model). Sensitivity to Driver Behaviour.
Sign-controlled intersection capacity and performance.

Using SIDRA INTERSECTION:

Example - Variable Phase Sequence Analysis

Pedestrian Walk Extension.
Variable Signal Phasing table, Critical Movements display and Saturation Flows report.
Input Comparison, Output Comparison.

Discussion

Short lane model.

Using SIDRA INTERSECTION:

Example - Six-Leg Roundabout

One-way streets and turn bans. U turns. Specifying lane disciplines for multi-lane roundabouts with diagonal legs. Design Life Analysis.

Using SIDRA INTERSECTION:

Example - Signalised Intersection with Two-Segment BUS Lane

Phase Transition. Undetected Movements. Critical Movement Diagram.

Using SIDRA INTERSECTION:

Example - Pedestrian-Only Phase at Signalised Intersections

Diagonal Crossing Movement. Pedestrian Actuation. Staged Pedestrian Crossings.
Other pedestrian analysis features.

End of INTERMEDIATE Workshop Day 1

INTERMEDIATE WORKSHOP

DAY 2 CONTENTS