PAVEMENT STRUCTURAL EVALUATION

FALLING WEIGHT DEFLECTOMETER SURVEY AND ANALYSIS

TESTING INSTRUCTION

BASIC INFORMATION

SECTION REFERENCE (Road & RP) .....

SUBTITLE (physical limits) .....

LENGTH (km).....

TESTING DIRECTION: ☐ Both Directions ☐ Increasing RP only ☐ Decreasing RP only

LANES TO BE TESTED: ☐ Main through lane ☐ Include passing lane ☐ Include passing lane and turning lanes

DESIGN TRAFFIC: Average 2-way AADT: ..... Average ESA/lane/year: .....

EMAIL ADDRESS: .....

DETAILED INFORMATION (Preferred to assist processing and improve model calibration)

OBJECTIVES: ☐ Rehabilitation ☐ Asset Management/dTIMS ☐ Construction QA

DESIGN LIFE: ☐ 25 yrs ☐ 20 yrs ☐ 15 yrs ☐ 10 yrs Other:

TESTING INTERVAL: ☐ Project level (25m staggered between lanes) ☐ Network level (50m staggered between lanes) ☐ Planning level (100m staggered between lanes)

AS-BUILT RELIABILITY: ☐ Uncertain (expected thicknesses only) ☐ Good (test pit logs/as builts to be forwarded) ☐ Pits proposed after FWD identifies weak spots

SURFACING:

Type: ☐ Chip-seal ☐ Friction course ☐ Asphaltic concrete ☐ Unsealed Thickness:..... mm

BASECOURSE:

Type: ☐ M/4 unbound granular ☐ Cement stabilised ☐ Lime stabilised Thickness: ..... mm

SUBBASE:

Type: ☐ Unbound granular ☐ Stabilised Thickness: ..... mm

SUBGRADE:

Type: ☐ Unstabilised ☐ Stabilised

PRESENT CONDITION OF SUBGRADE: ☐ Typical winter state ☐ Unusually wet ☐ Dry ☐ Unusually dry

Compared to winter design state, factor deflections by: (x 1.0) (x0.95) (x 1.05) (x 1.10)

ROUGHNESS: Present NAASRA . .....counts. Year of last shape correction: ..... Terminal Roughness .....

EXISTING DISTRESS: ☐ None ☐ Widespread ☐ Localised MODE: ☐ Rutting ☐ Shoving ☐ Cracking

Ensure extra tests at stations:.....

PROPOSED TREATMENT:

☐ M/4 unbound granular overlay ☐ Asphaltic concrete overlay ☐ Friction course overlay ☐ Cement stabilisation of basecourse

☐ Recycling of surface layer ☐ None - structural evaluation/dTIMS ☐ None - deterioration monitoring ☐ None - construction QA

STRUCTURAL EVALUATION METHOD: ☐ AUSTROADS ☐ AUSTROADS/TNZ 1997 supplement

TNZ Method: Ratio of future to past traffic (default 3)..... Percentage of road now in terminal conditions (default 50) .....

TRAFFIC CONTROL: ☐ Standard signage and flashing beacons ☐ Additional shadow vehicle supplied by client

☐ Additional shadow vehicle to be supplied by T&T ☐ Attenuator vehicle to be supplied by T&T ☐ Specific instructions below

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ESA CALCULATION: Derive average ESA/lane/year from AADT and Design Life above:

☐ Calculate below ☐ Don't calculate - use value in basic data above

Percent HCV ..... % ESA/HCV ..... Growth/yr .....