



APPROACH CIRCUIT DISTANCE CALCULATION	
	TRACK 1
BASE WARNING TIME	30 SEC
PLUS TIME FOR CLEARANCE DISTANCE > 35'	4 SEC
EQUALS PLANNED WARNING TIME	34 SEC
PLUS TIME FOR EQUIPMENT RESPONSE	4 SEC
PLUS TIME FOR TRAFFIC PRE-EMPTION	T.B.D.
EQUALS CIRCUIT APPROACH TIME	38 SEC
TIMES MAXIMUM PLANNED TRAIN SPEED	20 MPH
TIMES RATIO OF FEET PER SECOND TO MILE PER HOUR	22/15
EQUALS APPROACH CIRCUIT DISTANCE WITH ANY FRACTIONAL VALUE INCREASED TO FULL UNIT	1120 FT

**NOTES:**

1. ALL WIRING IN THE BUNGALOW IS #16 AWG FLEX UNLESS OTHERWISE NOTED.
2. SEE APPROACH CIRCUIT DISTANCE CALCULATION TABLE FOR PLANNED WARNING TIME AND TRAIN SPEED PER TRACK.
3. TRANSMITTER WIRE T1 AND T2 MUST BE RUN TO THE TRACK BUNGALOW SIDE OF CROSSING.
4. APPROACH DISTANCES ARE TO BE MEASURED FROM THE CIRCUIT FEED POINTS.
5. INSTALL (2)RA-20 YARD TRACK SWITCH MACHINES WITH DTMF CONTROL ON EXISTING TIES.
6. ONE DOUBLE-FACED CONFIRMATION SIGNAL TO BE INSTALLED FOR FUTURE QUIET ZONE.

**LEGEND:**

- ⊗ -TEST TERMINAL
- △ -EQUALIZER
- ∟ -ARRESTER TO GROUND
- ⊕ -TWISTED WIRE 2 TURNS PER FOOT

REVISIONS					

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

**RAILAMERICA, INC.**  
 5300 BROKEN SOUND BLVD. -NW  
 BOCA RATON, FLORIDA

**DALLAS, GARLAND & NORTHEASTERN**

DRAWN: RCL DESIGNED: RCL CHECKED: RCL DATE: 03-10-04	CROSSING TRACK PLAN ARAPAHO RD. (EAST) ADDISON, TX MILEPOST *	DRAWING NO. ARAP1 SHEET 1 OF 1
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