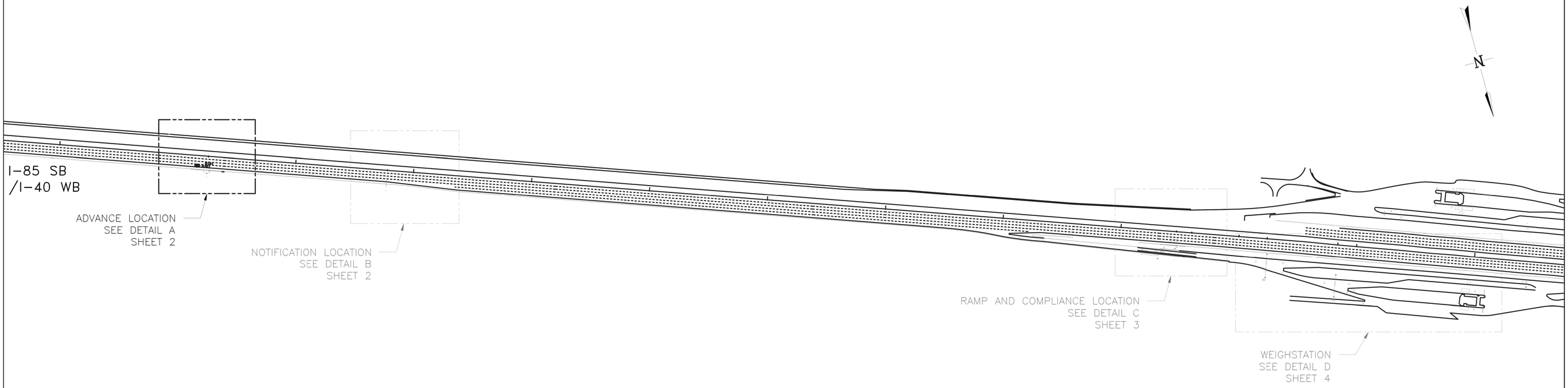
PROJECT REFERENCE NO.	SHEET NO.
I-5958	ITS-2



STANDARD DRAWINGS:

81300101 – VEHICLE DETECTION LOOPS INSTALLATION
81300201 – WIM PIEZOELECTRIC SENSOR CLASS 1 INSTALLATION
81301001 – LINEAS® QUARTZ WIM SENSOR BY KISTLER INSTALLATION
813022–0502, 0802 – TEMPERATURE SENSOR INSTALLATION
81304403 – VECTORSENSE® SENSOR INSTALLATION

GENERAL NOTES:

ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES SHALL BE DONE WITHIN A PULL BOX BY SOLDERING THEN SEALING FOR WATERPROOFING. NUMBER AND PLACEMENT OF PULL BOXES MAY BE DIFFERENT FROM THAT SHOWN TO MEET REQUIREMENTS.

AC POWER CABLES MUST BE RUN IN SEPARATE CONDUITS/PULLBOXES FROM SIGNAL CABLES OR SEPARATED INSIDE PULLBOXES WITH A DIVIDER.

SENSOR SPACING SHOWN IS TYPICAL SPACING REQUIREMENT, ACTUAL SENSOR SPACING MAY BE ALTERED TO SUIT SITE CONDITIONS BY THE IRD FIELD REPRESENTATIVE.

SITE CONDITIONS MUST MEET ASTM E1318–09 TYPE 1 REQUIREMENTS TO ACHIEVE OPTIMAL WIM SYSTEM PERFORMANCE.

A CONCRETE SECTION IS RECOMMENDED FOR WIM LANES, FROM 200' [60m] BEFORE THE SENSORS UP TO 100' [30m] AFTER THE SENSORS, TO IMPROVE LONG TERM PERFORMANCE AND REDUCE MAINTENANCE.

PIEZO SENSORS MUST BE A MINIMUM OF 6' [1.83m] AWAY FROM CRACKS, JOINTS OR SAWCUTS WHEN POSSIBLE.

CABLES MUST BE PROTECTED BY PVC SLEEVES WHERE THEY CROSS PAVEMENT JOINTS/CRACKS.

ADDITIONAL DRAINAGE MAY BE REQUIRED DEPENDING ON SLOPE OF ROADWAY.

IRD RECOMMENDS THE MINIMUM SIZE FOR PULL BOXES IS 18" [45.7cm] X 18" [45.7cm] X 12" [30.5cm].

EXACT ROUTING OF CONDUIT TO BE DETERMINED ON SITE. NUMBER AND PLACEMENT OF PULL BOXES NOT SHOWN.

SEE 81300911 FOR POWER REQUIREMENTS.

DRAWING NOT TO SCALE.

LOOP DETAILS:

LOOP #	SIZE	NUMBER OF TURNS
L1–L4	6' X 6'	4
L5–L21	EXISTING	EXISTING
LA–LB	6' X 6'	4

LEGEND:

EXISTING EQUIPMENT IN GREY
NEW EQUIPMENT IN BLACK

AVI – AUTOMATIC VEHICLE IDENTIFICATION
BP – BENDING PLATE SCALE
E – ELECTRONICS ENCLOSURE
ILL – ILLUMINATOR
L – INDUCTIVE LOOP
LCS – LANE CONTROL SIGN
LPR – LICENSE PLATE READER CAMERA
OCS – OPEN/CLOSED SIGN
O/H – OVERHEIGHT DETECTOR
P – PIEZOELECTRIC SENSOR
Q – LINEAS® QUARTZ WIM SENSOR BY KISTLER
S – SINGLE LOAD CELL SCALE
SVC – SIDE VIEW CAMERA
T – TEMPERATURE SENSOR
TS – TRAFFIC SIGNAL
V – VECTORSENSE® SENSOR
▨ – CABINET
1 – SIGNAL CONDUIT
1 – POWER CONDUIT
A – NOTE

ORIGINAL

REV.	DESCRIPTION	DWN/DSN	APPR.	APPR.	DATE
A	PREVIOUSLY RELEASED AS C11062002 REV C AND C11749004 REV 1. ECO-16948	MKa/CMo	CMo	YMa	JUL 12/21
B	CHANGES AS PER ECO-18557	MKa/CMo	CMo	RSa	OCT 14/22

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NOT TO SCALE

SIZE: B

DIMENSIONS IN: FEET [m]

INTERNATIONAL ROAD DYNAMICS INC.
SASKATOON SASKATCHEWAN CANADA

DWG. TITLE:
SITE LAYOUT - SB
TACS UPGRADE
HILLSBOROUGH SB, NORTH CAROLINA

DWG. No. C11749020

REV.: B

CAD FILE: C11749020_B.DWG