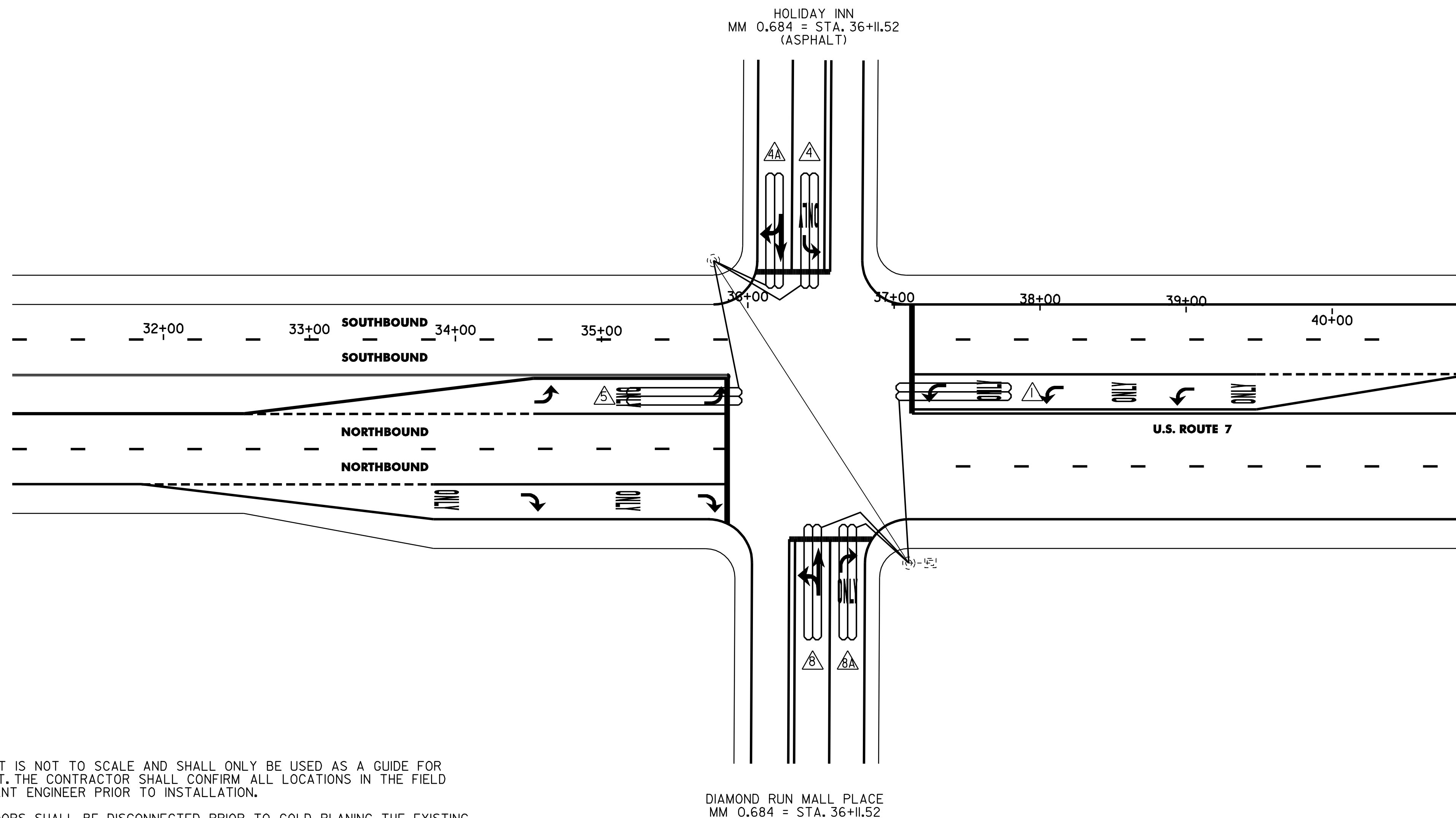


678.22 VEHICLE LOOP DETECTOR

LOOP 1	-	182 FT	185 FT
LOOP 4	-	160 FT	159 FT
LOOP 4A	-	147 FT	142 FT
LOOP 5	-	171 FT	179 FT
LOOP 8	-	160 FT	158.5 FT
LOOP 8A	-	147 FT	145 FT

VEHICLE LOOP DETECTORS							TEST RESULTS AT JUNCTION BOX					TEST RESULTS AT CONTROLLER (FUTURE USE)**				
							INDUCTANCE (uH)		RESISTANCE Ω @ 25°C		(MΩ)	INDUCTANCE (uH)		RESISTANCE Ω @ 25°C		(MΩ)
LANE	LOOP NO.	SIZE	TYPE	NO TURNS	MODE	AMP	CALCULATED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND	CALCULATED	MEASURED	CALCULATED	MEASURED	LEAKAGE TO GROUND
SB LT	4	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	353		0.75			355		0.78		
EB LT	4	6' x 40' 39'	QUAD	2	PRESENCE	NON-DELAY	353		0.75			396		1.31		
EB RT/TH	4	6' x 40' 39'	QUAD	2	PRESENCE	NON-DELAY	349		0.71			393		1.27		
NB LT	5	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	349		0.71			393		1.27		
WB LT/TH	8	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	345		0.65			348		0.69		
WB RT	8	6' x 40'	QUAD	2	PRESENCE	NON-DELAY	344		0.63			346		0.66		

* MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.
 ** CALCULATED VALUES AT CONTROLLER ARE BASED ON DIRECT CONDUIT ROUTING TO THE NEAREST SIGNAL POLE AND CROSSING THE SPAN WIRE AS NECESSARY TO THE EXISTING CONTROLLER LOCATION. ANY SIGNAL MODIFICATION AND/OR CONTROLLER RELOCATION PRIOR TO LOOP CONNECTION WILL REQUIRE RECALCULATION OF THESE VALUES AS DIRECTED BY THE RESIDENT ENGINEER.



NOTES:

- THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR LOOP PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
- ALL EXISTING LOOPS SHALL BE DISCONNECTED PRIOR TO COLD PLANING THE EXISTING HIGHWAY SURFACE. SIGNAL CONTROLLER SHALL BE SET TO FIXED-TIME OPERATION.
- ALL LOOPS WILL EXTEND 5.0 FT PAST THE CENTER OF THE STOP BAR ON EACH APPROACH.
- LOOPS SHALL BE INSTALLED IN THE PAVEMENT PRIOR TO THE PLACEMENT OF THE WEARING COURSE.
- LOOP WIRE SHALL BE SPLICED TO THE EXISTING LEAD-IN CABLE AT THE NEAREST JUNCTION BOX/POLE.
- IF WATER VALVES, DROP INLETS OR OTHER OBSTRUCTIONS ARE ENCOUNTERED WITHIN THE AREA OF A PROPOSED LOOP, THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID THE OBSTRUCTION DURING LOOP INSTALLATION. IF LOOP SIZES OR SHAPES ARE TO BE MODIFIED DUE TO OBSTRUCTIONS THE RESIDENT ENGINEER MUST APPROVE THE NEW LAYOUT PRIOR TO INSTALLATION.
- SEE VAOT STANDARD E-172 FOR VEHICLE DETECTOR LOOP DETAILS.

LEGEND		
EXISTING	NEW	DESCRIPTION
		VEHICLE LOOP
		CONDUIT
		JUNCTION BOX
		CONTROLLER CABINET
		SIGNAL POLE

TRAFFIC LOOP LAYOUT SHEET #4

PROJECT NAME: WALLINGFORD - RUTLAND TOWN
 PROJECT NUMBER: AC NH 2207(1)S

FILE NAME: p99bl66.dgn
 PROJECT LEADER: D.E.G.
 DESIGNED BY: D.W.E.

PLOT DATE: 12-MAR-2007 11:30
 DRAWN BY: C.A.K.
 CHECKED BY: D.E.G.
 SHEET 43 OF 95