ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER) STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST SAMPLE LAYOUT - 1 INBOUND LANE AND 1 OUTBOUND LANE (2 LANE ROAD) NOTES: 1. CONTROLS ALLOW FOR NORMAL RAISE/LOWER OPERATION IN 5 SECONDS FOR "TRAFFIC CONTROL" AND DEPLOYMENT AS "FINAL CONDUIT WITH LOW DENIAL" BARRIER IN LESS THAN 2 SECONDS. VOLTAGE CONTROLS WIRE 2. ONLY FINAL DENIAL APPLICATIONS OF WEDGE BARRIER REQUIRE WEDGE BARRIERS SIGNS, WARNING LIGHTS, AND ALARMS. CONDUIT WITH 3. MULTIPLE WEDGE BARRIERS CAN BE INSTALLED ACROSS POWER SUPPLY WIRE MULTI-LANE ROAD. **∿**–100'-60 AMP SINGLE PHASE ELECTRICAL SUBPANEL (TBD IN FIELD) PLC CONTROLS BOX -FLASHING LIGHTS AND -PROVIDED BY BARRIER1 BARRIER WARNING SIGN. TRAFFIC SIGNAL SEE NOTE 2 (TYP.) LOCAL CONTROLS BOX (TYP.) PROVIDED BY BARRIER1 "STOP HERE ON RED" SIGN, (TYP.) CONCRETE CURB OR EDGE OF PAVEMENT SIDE WEDGE BARRIER AT 5' WIDE X 10' LONG, (TYP.) INBOUND TRAFFIC 12" WIDE RAISE 12' DIRECTION WHITE PAINTED LINE, (TYP.) SIDE OUTBOUND SAFETY LOOP DETECTORS. EACH SIDE OF BARRIER RAISE 12 TRAFFIC (TYP.) DIRECTION

		C WEDGE BARRIERS									
В		BARRIER1 SYSTEMS, INC.	THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE			SHEET: 1 OF 9					
	BARRIER1	8015 THORNDIKE ROAD GREENSBORO, NC 27409	PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS, INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.	ELECTRICAL WEDGE BARRIER	SAMPLE DRAWING						
	SYSTEMS, INC.	(336) 617-8478 (336) 617-8471 FAX mlamore@barrier1.us www.barrier1.us				SCALE: N.T.S.					

UNDERGROUND CONDUIT WITH

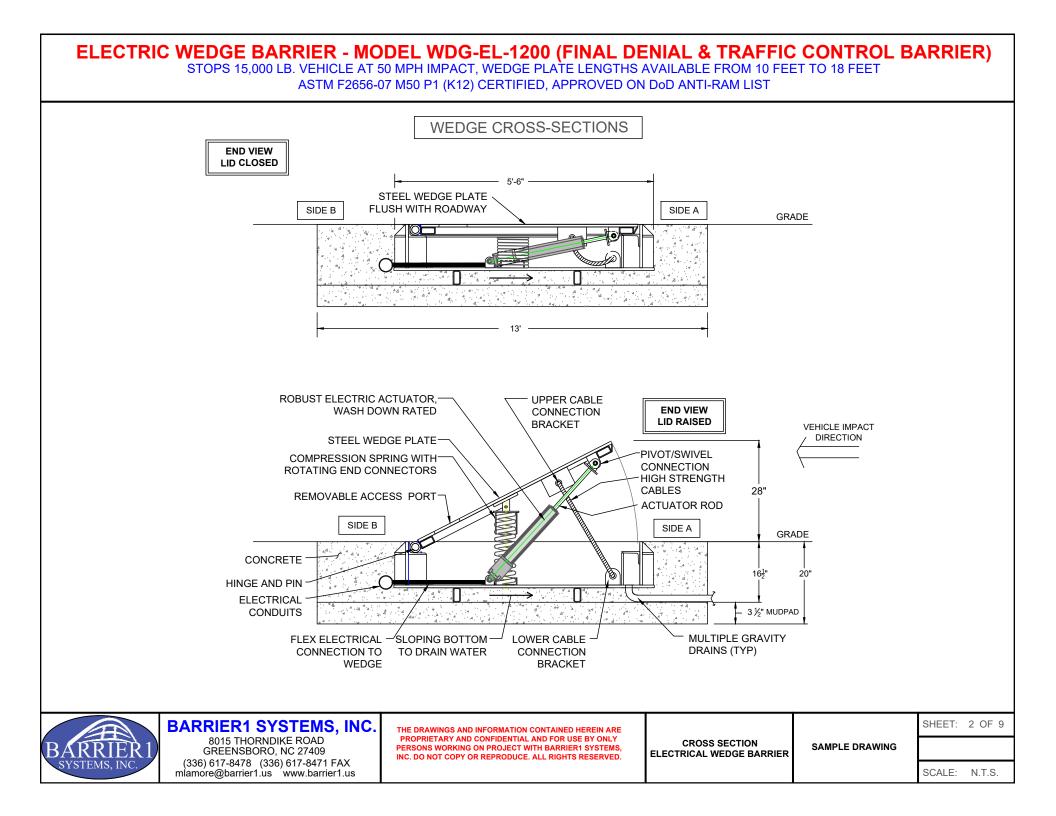
LOW VOLTAGE CONTROLS WIRE, (TYP.)

100' (TBD IN FIELD) TRAFFIC SIGNAL & BARRIER SIGN,

(TYP.)

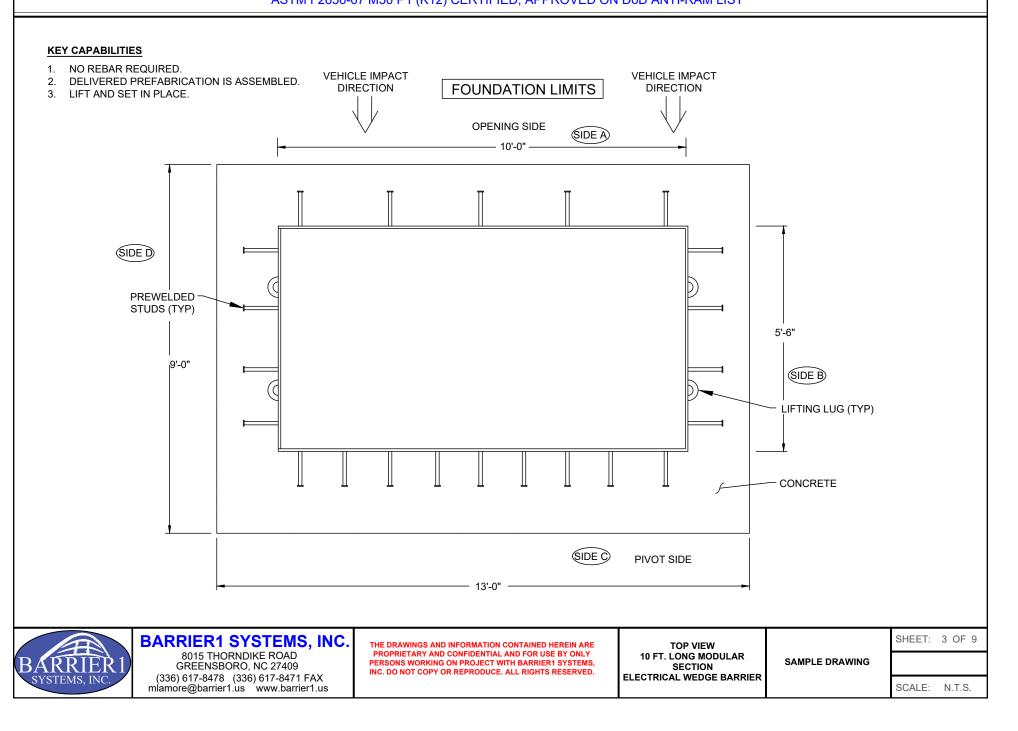
CONCRETE CURB OR EDGE

OF PAVEMENT



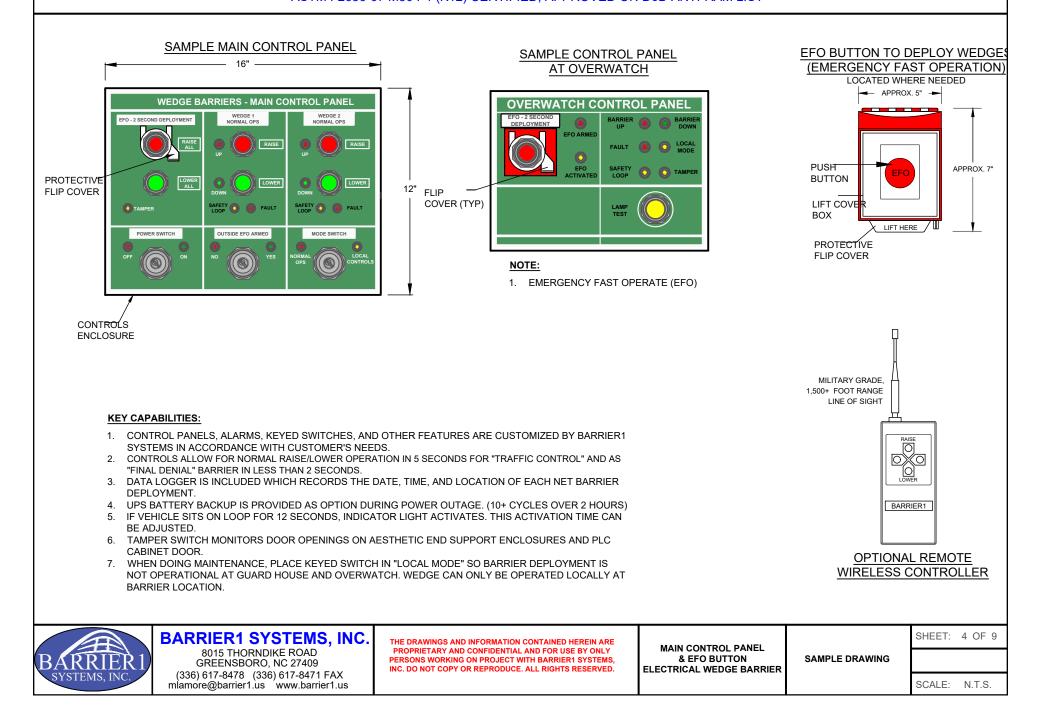
ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER) STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET

DPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST



ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER)

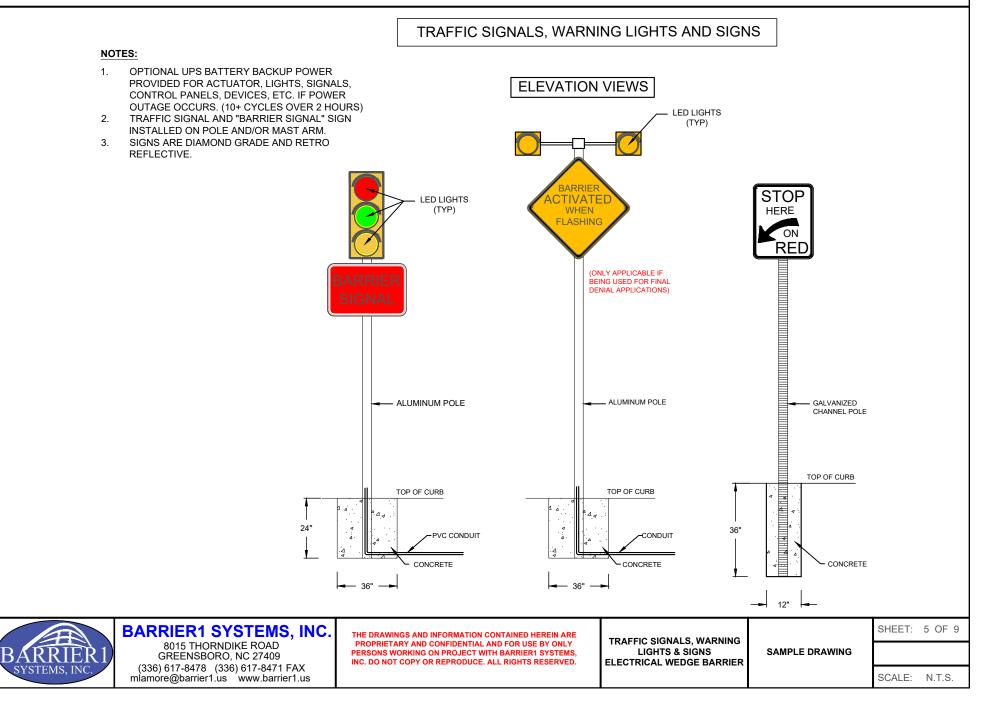
STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST



ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER)

STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET

ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST



ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER) STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST CONDUITS SCHEMATIC PLAN VIEW INBOUND OUTBOUND POWER TRAFFIC DIRECTION SUPPLY TRAFFIC DIRECTION (ONLY IF WL FINAL DENIAL) LOW VOLTAGE CONTROLS WIRE TO GUARD HOUSE SAFETY SAFETY TS LOOP LOOP DETECTOR DETECTOR ELECTRIC SUBPANEL 60 AMP SINGLE PHASE WEDGE WEDGE **PIVOT SIDE PIVOT SIDE** PLC CABINET LOCAL CONTROLS CABINET SAFETY SAFETY CONDUIT COLOR LOOP LOOP SIZE SCHEMATIC ΤS DETECTOR DETECTOR 1 1/2" Ø 1" Ø TRAFFIC DIRECTION TRAFFIC DIRECTION 3/4" Ø (ONLY IF WL FINAL DENIAL) BARRIER1 SYSTEMS, INC. 8015 THORNDIKE ROAD SHEET: 6 OF 9 THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE CONDUITS, PANELS PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY & WIRING SCHEMATIC SAMPLE DRAWING PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS, GREENSBORO, NC 27409 INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED. ELECTRICAL WEDGE BARRIER (336) 617-8478 (336) 617-8471 FAX SYSTEMS, INC mlamore@barrier1.us www.barrier1.us SCALE: N.T.S.

ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER) STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET

TOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST

SEQUENCING OF TRAFFIC SIGNALS, WARNING LIGHTS, AND ALARMS UPON FINAL DENIAL ACTIVATION (ONLY APPLICABLE IF FINAL DENIAL APPLICATION)

TRAFFIC CONTROLS	OPERATIONAL SEQUENCE PER SECOND (MIN. FOR SAFETY - 40 KPH (25 MPH) DESIGN SPEED											
AND SAFETY AT	ELAPSED TIME	0	1 SEC.	2 SEC.	3 SEC.	4 SEC.	5 SEC.	6 SEC.	7 SEC.	8 SEC.	9 SEC.	10 SEC.
ACTIVE BARRIERS	TRAFFIC CONTROLS	NORMAL OPS	GUARD PERCEPTION AND REACTION TIME TO THREAT (EFO BUTTON) - 3 SECONDS			YELLOW CLEARANCE - GET ACROSS BARRIER 3 SECONDS (MUTCD MINIMUM)		ALL RED	DEPLOYING BARRIER		THREAT CONTAINED	
SIGN AND SIGNAL WARNING SYSTEM	WARNING SIGNS AND LIGHTS WITH BEACONS	OFF	OFF	OFF	OFF	ALT FY	ALT FY	ALT FY	ALT FY	ALT FY	ALT FY	ALT FY
	TRAFFIC SIGNAL	FY OR G	OR G	FY OR G	OR G	Y	Y	Y	R	R	R	R
	AUDIBLE SIREN ALARM	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
	SAFETY LOOP DETECTORS	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
	ACTIVE BARRIER POSITION	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	ACTIVATED	ACTIVATED	DEPLOYED

KEY:

R = RED

Y = YELLOW

G = GREEN

FY = FLASHING YELLOW

ALT = ALTERNATING

NOTES:

1. SEQUENCING AND TIMING OF SIGNALS, ALARMS AND LIGHTS CAN BE FIELD ADJUSTED USING PLC.

2. SAFETY LOOP DETECTORS PREVENT DEPLOYMENT OF BARRIER IF A VEHICLE IS ABOVE LOOP. BARRIER DEPLOYS AFTER VEHICLE PASSES OVER THE SAFETY LOOPS.

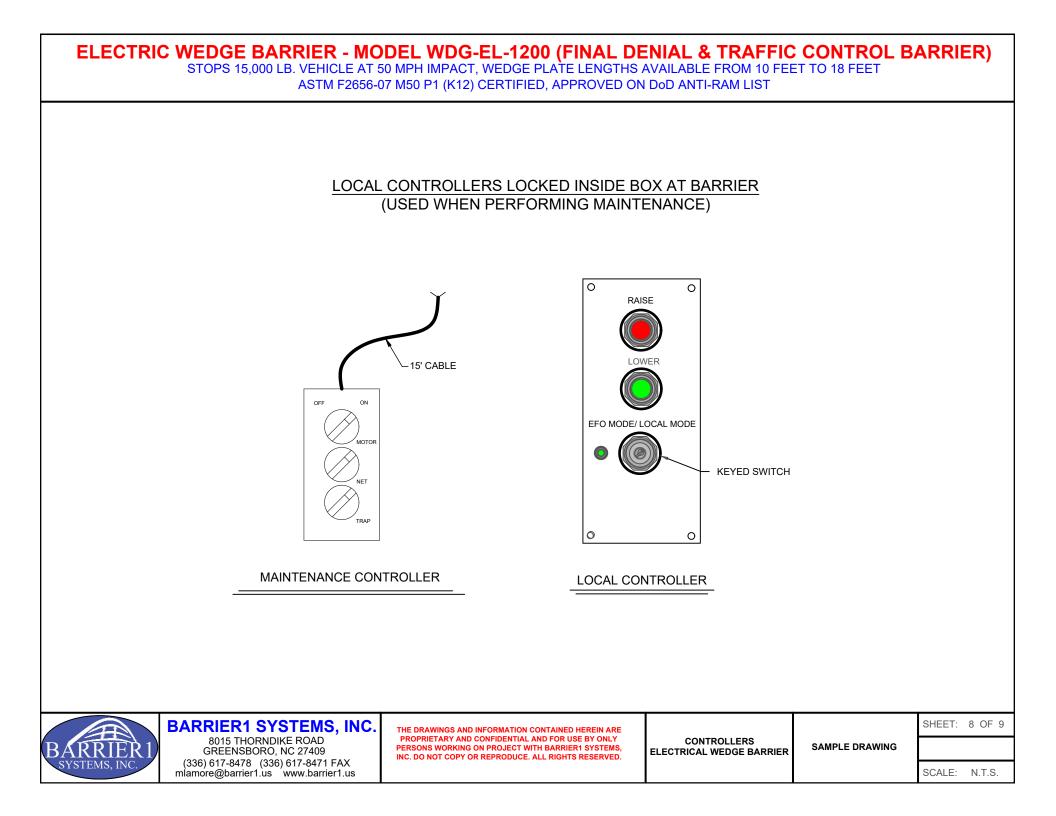


BARRIER1 SYSTEMS, INC. 8015 THORNDIKE ROAD GREENSBORO, NC 27409 (336) 617-8478 (336) 617-8471 FAX mlamore@barrier1.us www.barrier1.us

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS, INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED. SEQUENCING OF TRAFFIC SIGNALS, WARNING LIGHTS & ALARMS ELECTRICAL WEDGE BARRIER SHEET: 7 OF 9

SAMPLE DRAWING

SCALE: N.T.S.



ELECTRIC WEDGE BARRIER - MODEL WDG-EL-1200 (FINAL DENIAL & TRAFFIC CONTROL BARRIER) STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT, WEDGE PLATE LENGTHS AVAILABLE FROM 10 FEET TO 18 FEET ASTM F2656-07 M50 P1 (K12) CERTIFIED, APPROVED ON DoD ANTI-RAM LIST **OPTIONAL ITEMS** 1. CARD READERS AND/OR KEY PADS. 2. CAMERAS WITH CONTINUOUS DVR RECORDING TO VIDEO TAPE INCIDENTS. MILITARY GRADE, 1,500+ FOOT RANGE 3. UPS BACKUP POWER (PROVIDES 10+ CYCLES OVER 2 HOURS IF POWER OUTAGE OCCURS). LINE OF SIGHT 4. ADDITIONAL TRAFFIC SIGNS, AUDIBLE ALARMS, AND/OR WARNING LIGHTS. 5. TAMPER ALARMS ON DOORS AND CABINETS. 6. REMOTE WIRELESS CONTROLLER(S) TO RAISE OR LOWER WEDGE BARRIER. RAISE 7. TRIGGER LOOPS AND/OR RFID TAGS TO RAISE OR LOWER BARRIER ARM. 8. STAINLESS STEEL MATERIALS AND COMPONENTS. LOWER 9. SPECIALTY PAINTING. PLACARDS. AND DETAILING. 10. OVER SPEED DETECTION AND EARLY WARNING ALARMS. BARRIER1 11. WRONG WAY DETECTION AND ALARMS.



BARRIER1 SYSTEMS, INC. 8015 THORNDIKE ROAD GREENSBORO, NC 27409 (336) 617-8478 (336) 617-8471 FAX mlamore@barrier1.us www.barrier1.us

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS, INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

OPTIONAL EQUIPMENT AND OTHER COMPONENTS ELECTRICAL WEDGE BARRIER SHEET: 9 OF 9

OPTIONAL REMOTE WIRELESS CONTROLLER

SAMPLE DRAWING

SCALE: N.T.S.