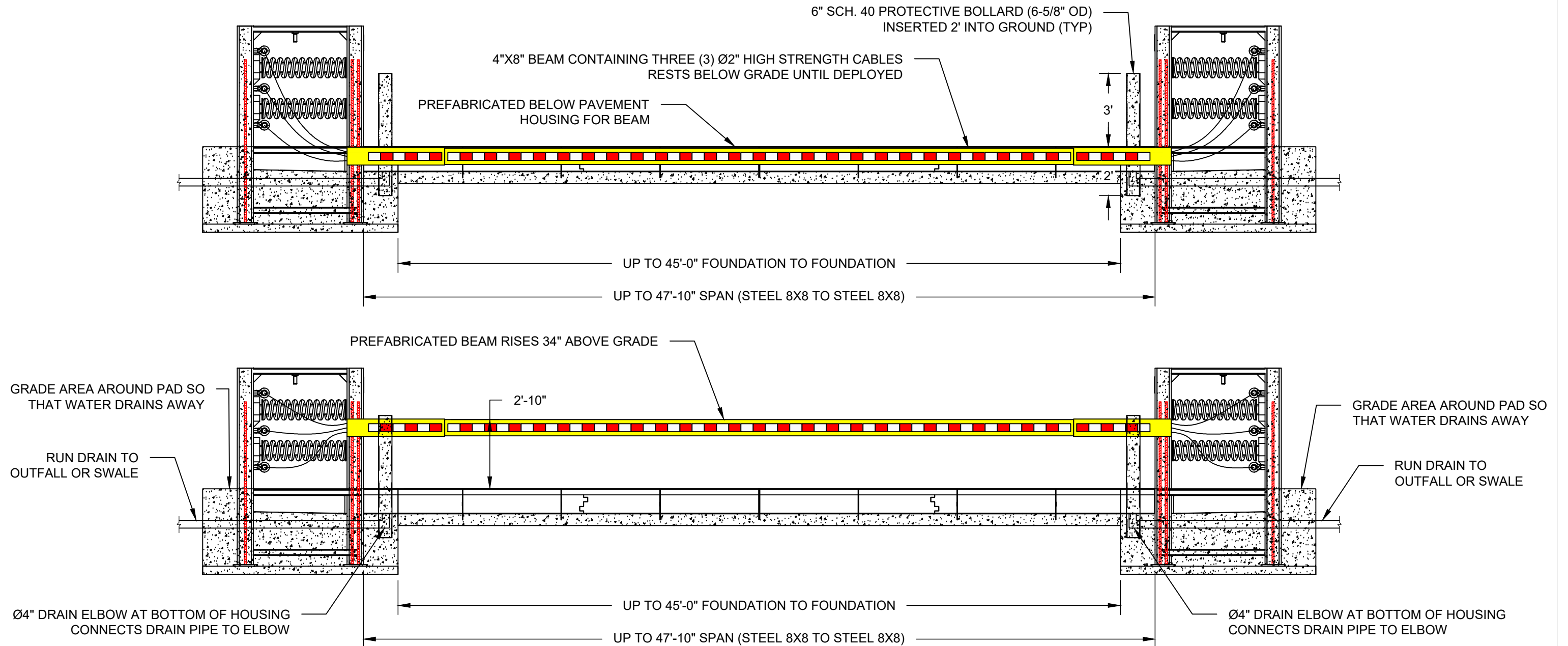


B1 NIMITZ M50

HORIZONTAL CRASH BEAM - MODEL HCB-ELE-1200

CRASH TESTED TO ASTM F2656-07 - M50/P2 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

CRASH BEAM ELEVATION VIEW



NOTE:

1. BARRIER LENGTH IS APPROXIMATE. CONFIRM SPACING ON ACTUAL SITE.



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HORIZONTAL CRASH BEAM
ELEVATION VIEW AND DETAIL
(1 OF 2)

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 1 OF 12

20240718-10-M

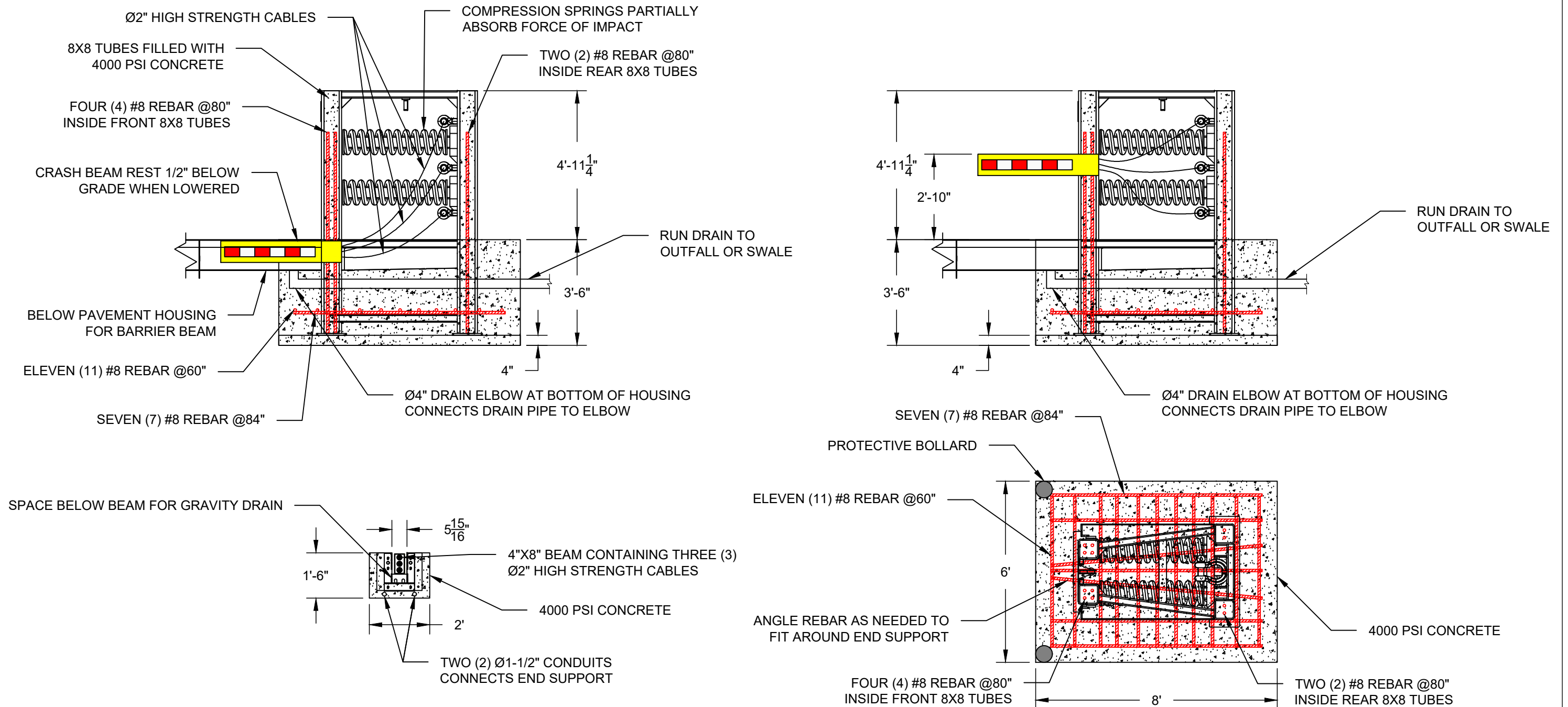
SCALE: N.T.S.

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CRASH BEAM ELEVATION VIEW



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HORIZONTAL CRASH BEAM
 ELEVATION VIEW AND DETAIL
 (2 OF 2)

HCB-ELE-1200
 WEBSITE DRAWING

SHEET: 2 OF 12

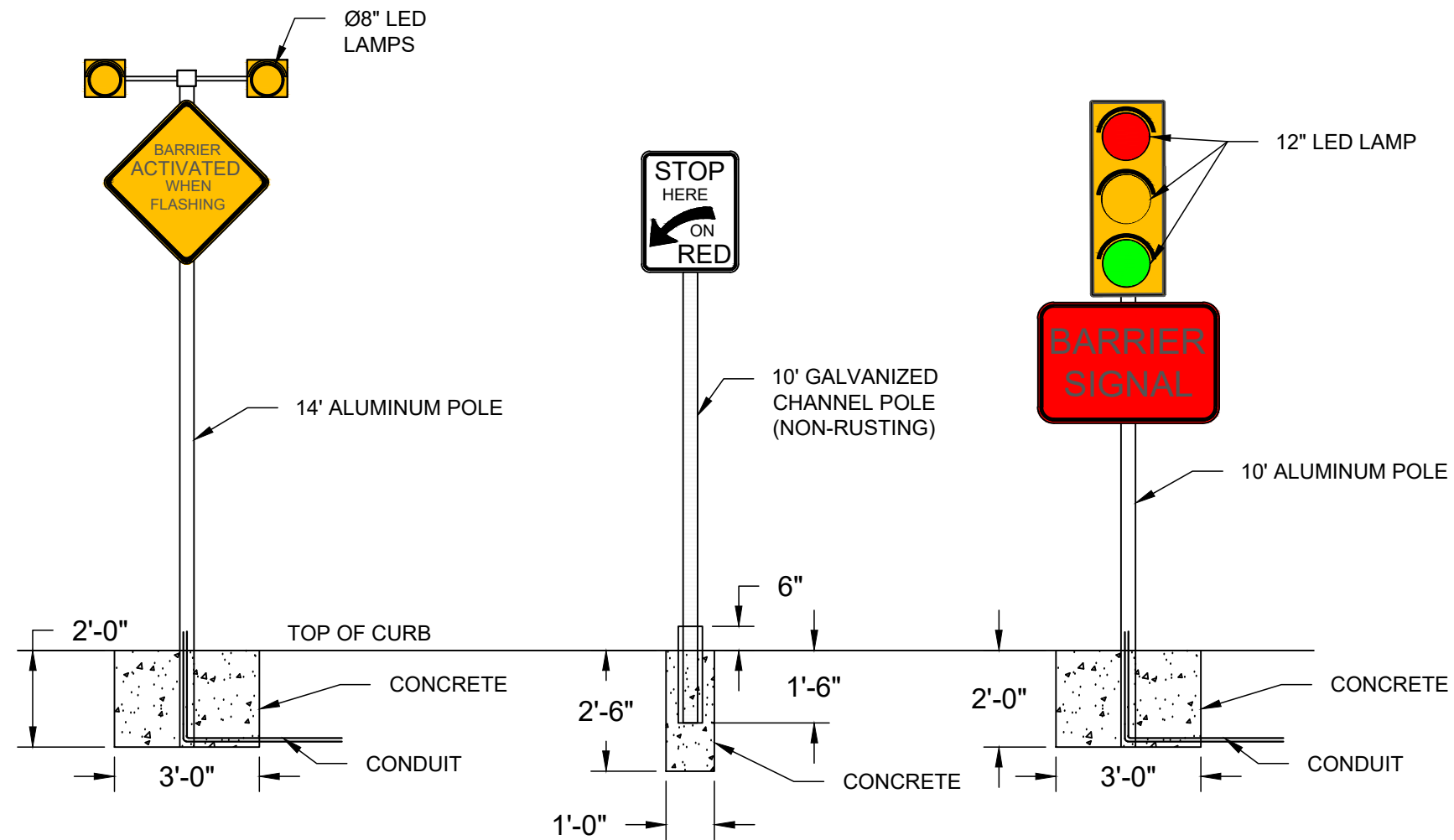
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SCALE: N.T.S.

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SIGNS AND SIGNAL
 ELEVATIONS

HCB-ELE-1200
 WEBSITE DRAWING

SHEET: 3 OF 12

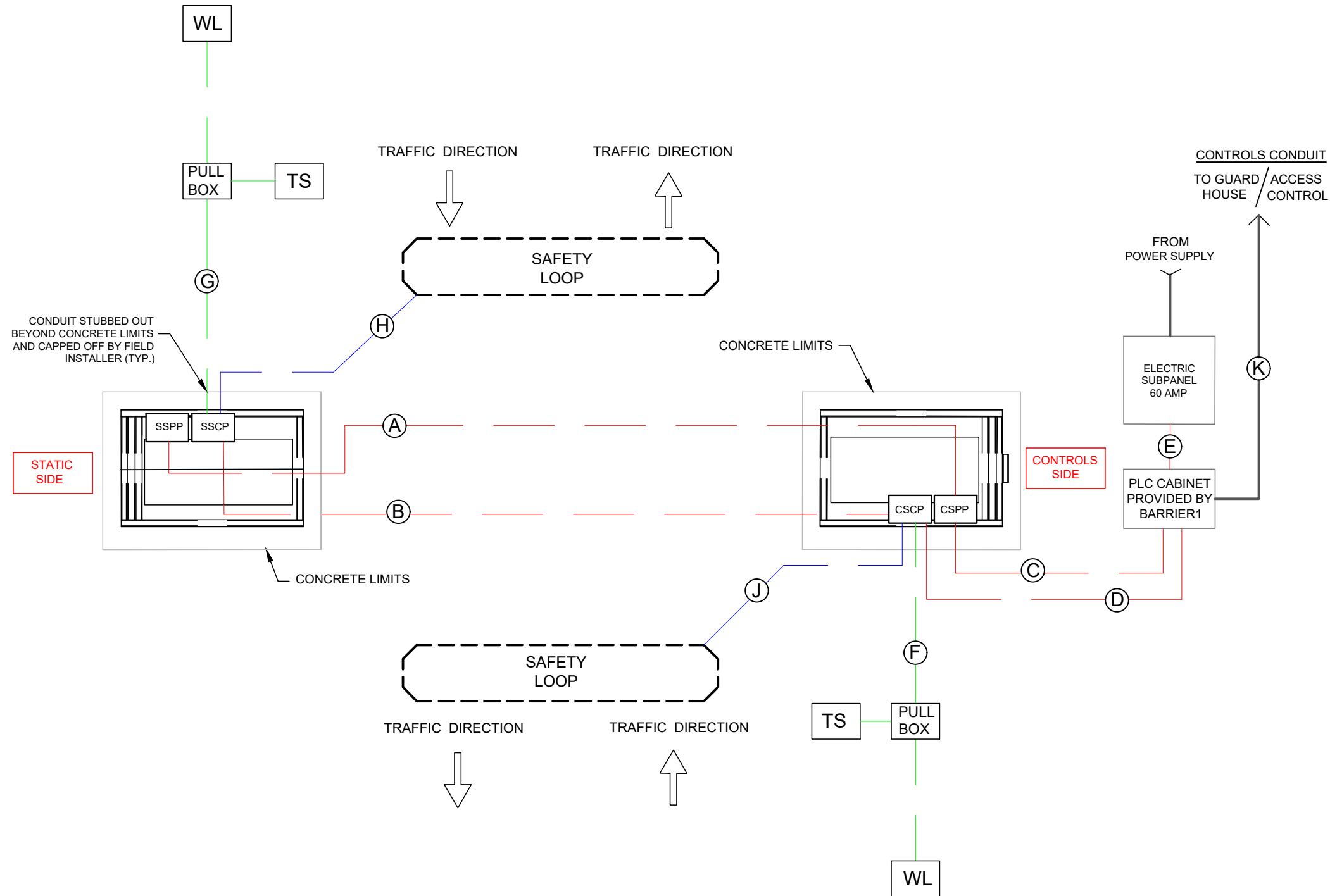
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SCALE: N.T.S.

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CONDUIT SCHEDULE

CONDUIT LABEL	CONDUIT DIAMETER	WIRE
(A)	1 1/2"	FOUR (4) 120VAC/20A CIRCUITS
(B)	1 1/2"	6 STRAND MULTI-MODE FIBER
(C)	1 1/2"	6 STRAND MULTI-MODE FIBER
(D)	1 1/2"	18 GAUGE, 25 CONDUCTOR
(E)	1 1/2"	TWO (2) 120VAC/20A CIRCUITS
(F)	1"	14 GAUGE, XHHW,
(G)	1"	14 GAUGE, XHHW,
(H)	1"	18 GAUGE, 3 CONDUCTOR
(I)	1"	18 GAUGE, 4 CONDUCTOR
(J)	1"	18 GAUGE, 3 CONDUCTOR
(K)	1"	18 GAUGE, 4 CONDUCTOR

SYMBOLS	SYMBOL KEY
WL	WARNING LIGHTS
O/W	OVERWATCH PANEL
SSP	CONTROLS PANEL, IN STATIC SIDE END SUPPORT
CSPP	POWER PANEL, IN CONTROLS SIDE END SUPPORT
CSCP	CONTROLS PANEL, IN CONTROLS SIDE END SUPPORT
TS	TRAFFIC SIGNAL



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CONDUIT LAYOUT

HCB-ELE-1200
 WEBSITE DRAWING

SHEET: 4 OF 12

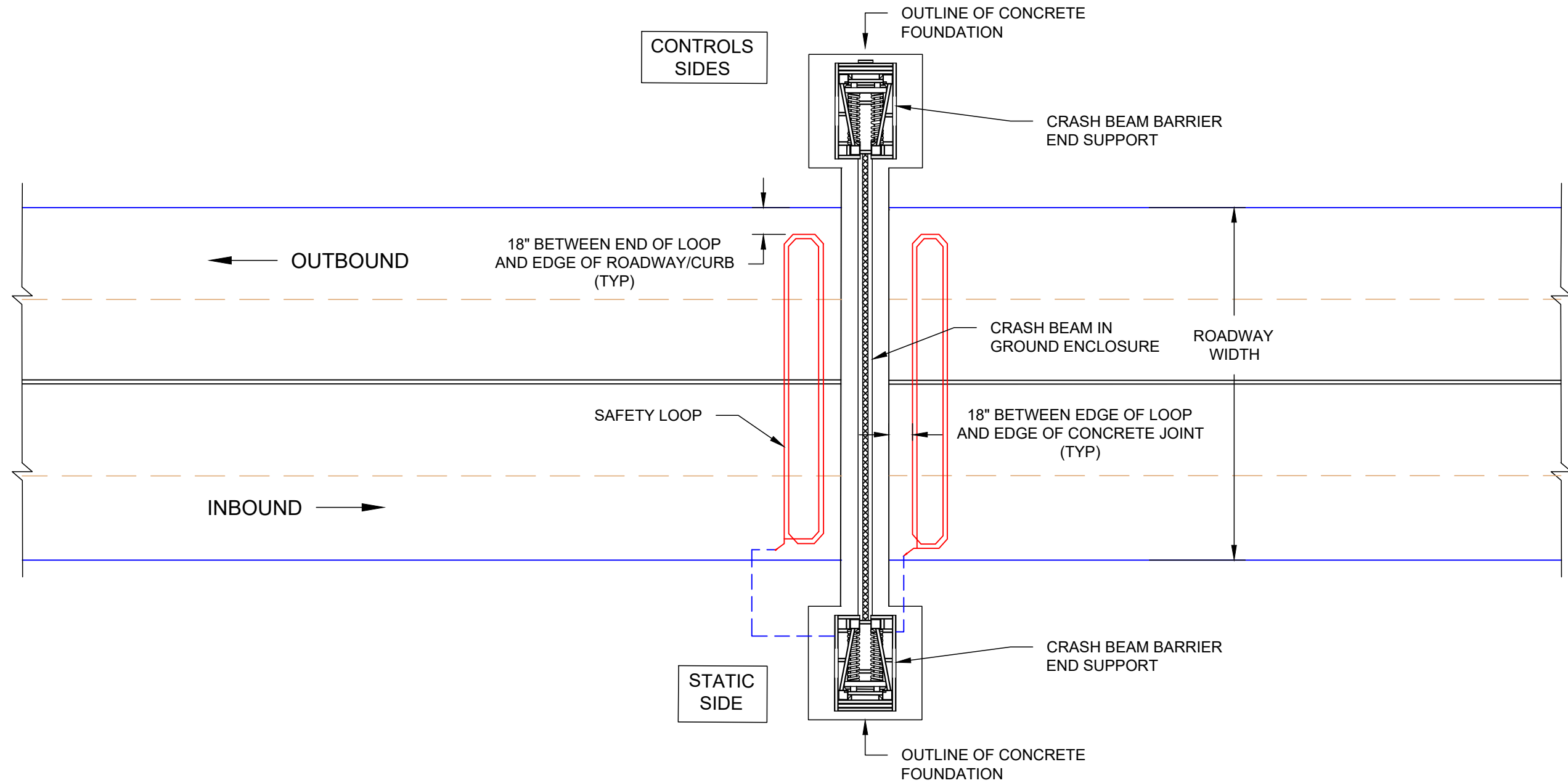
20240718-10-M

SCALE: N.T.S.

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SAFETY LOOP DETAIL

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 5 OF 12

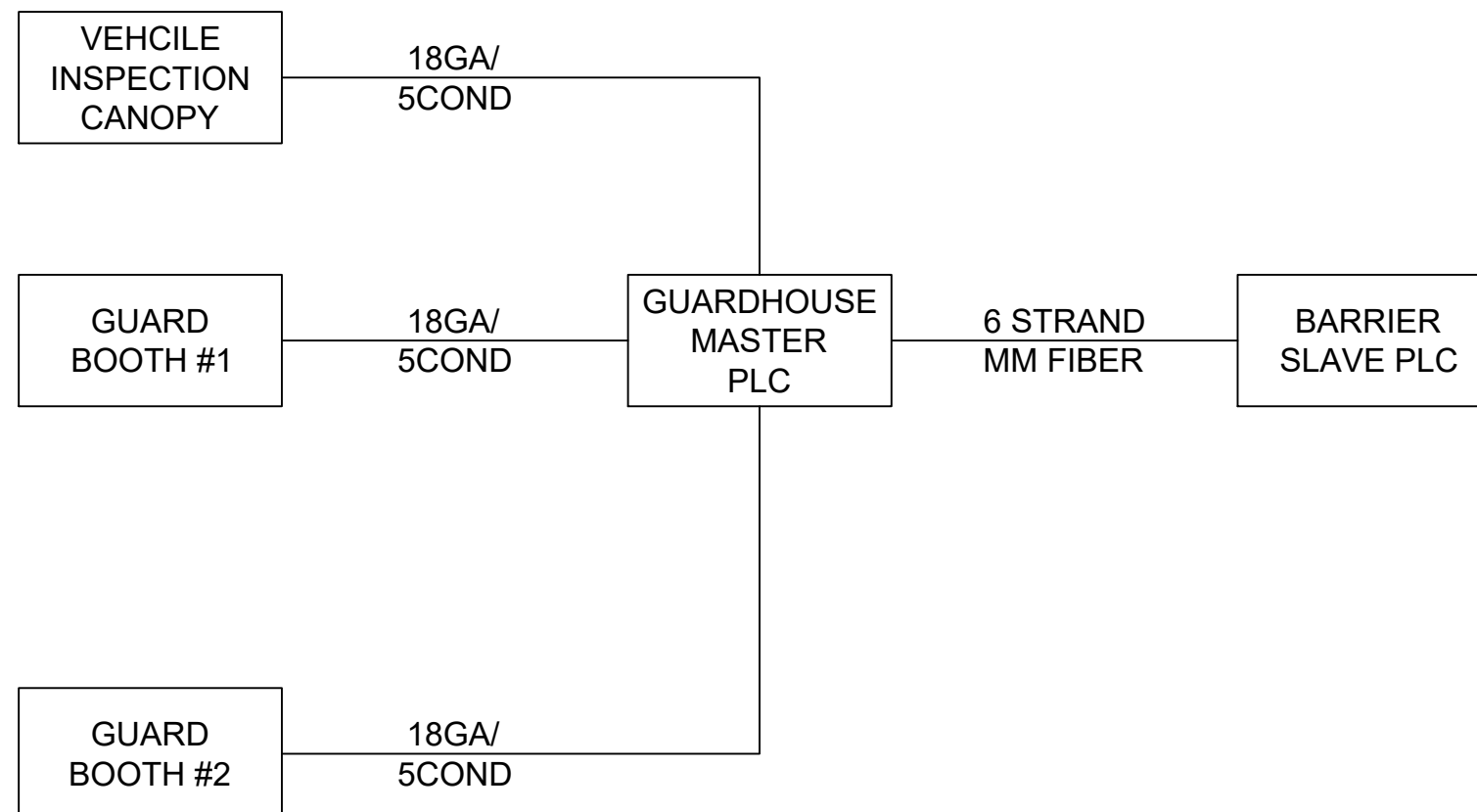
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SITE COMMUNICATION CABLING

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 6 OF 12

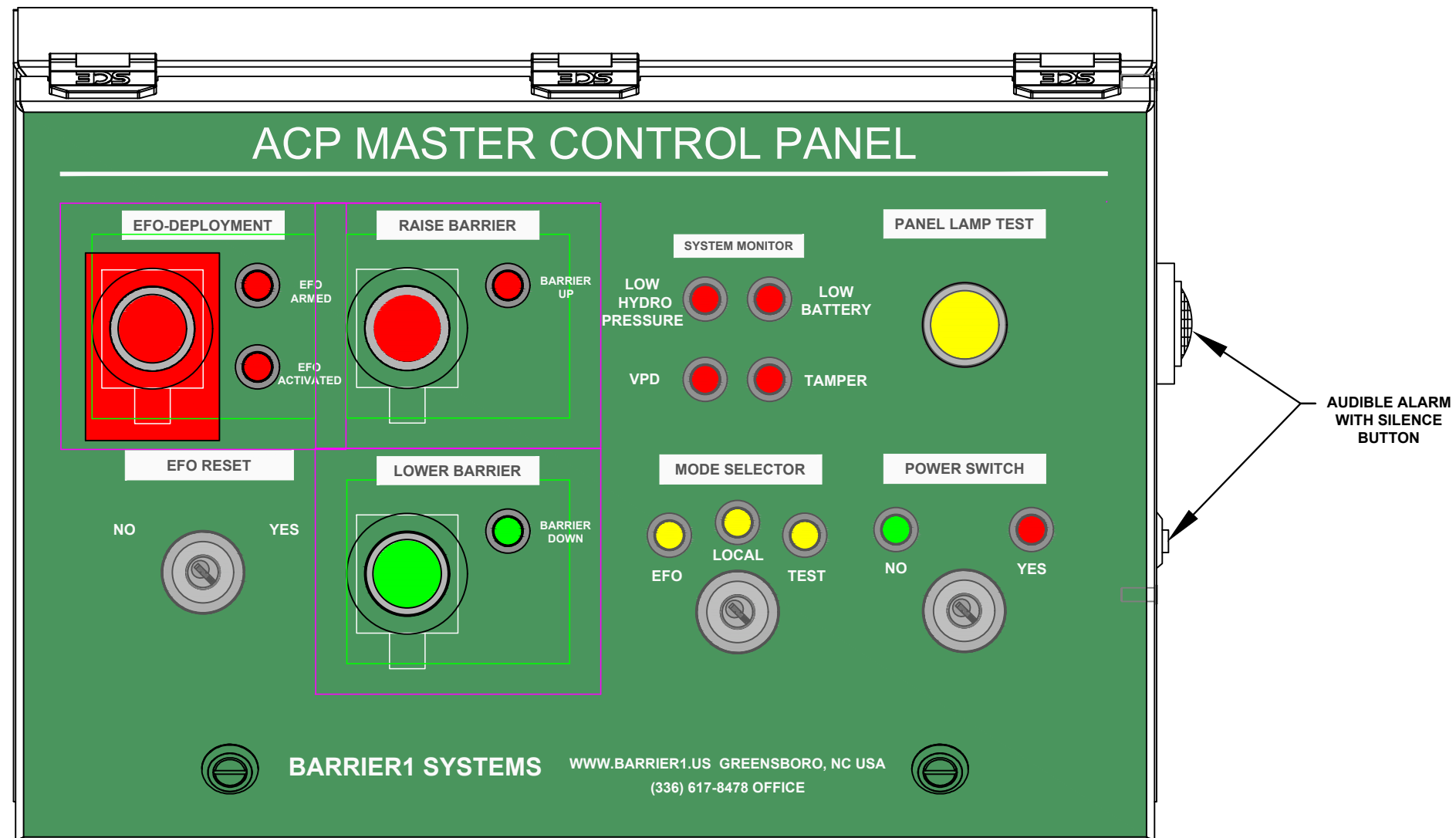
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NOTE:
1. FINAL CONTROL LAYOUT TO BE DECIDED.



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MASTER CONTROL PANEL

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 7 OF 12

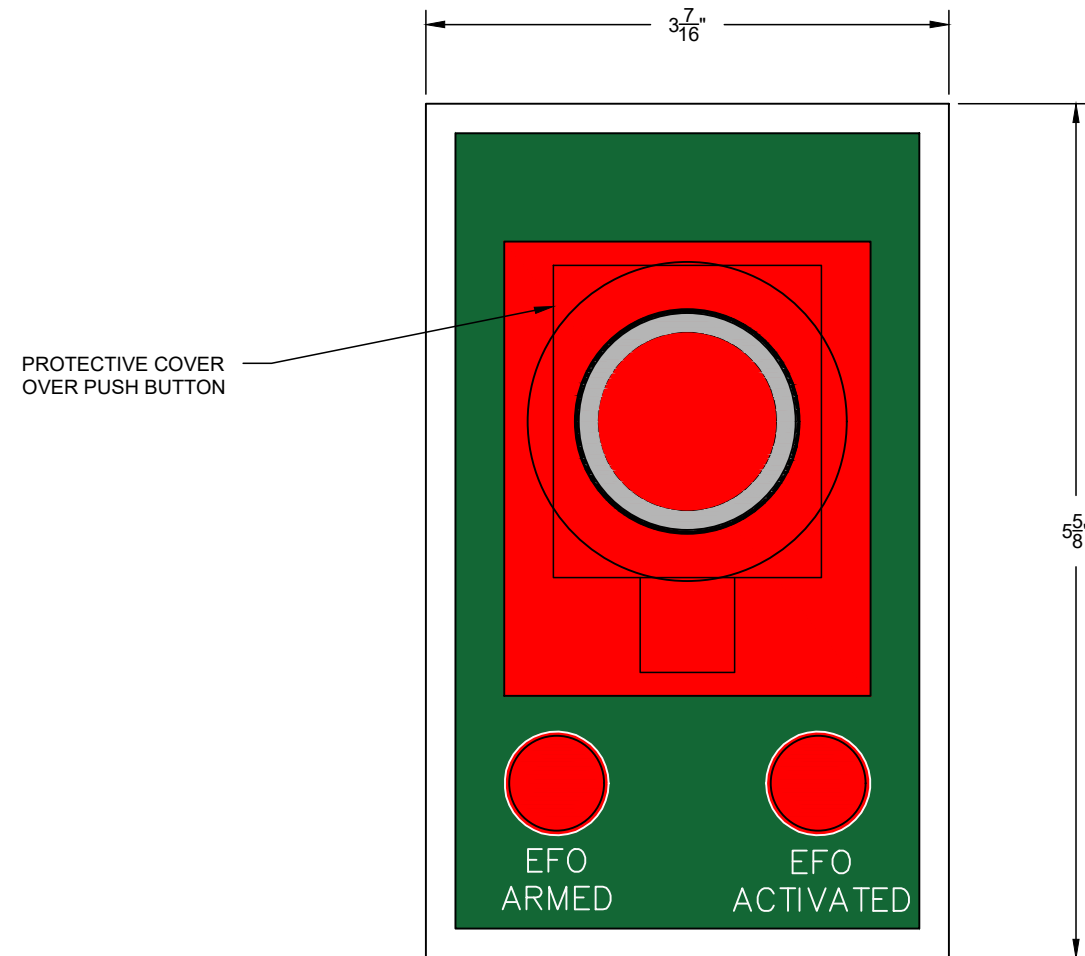
20240718-10-M

SCALE: N.T.S.

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REMOTE CONTROLLER

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 8 OF 12

20240718-10-M

SCALE: N.T.S.

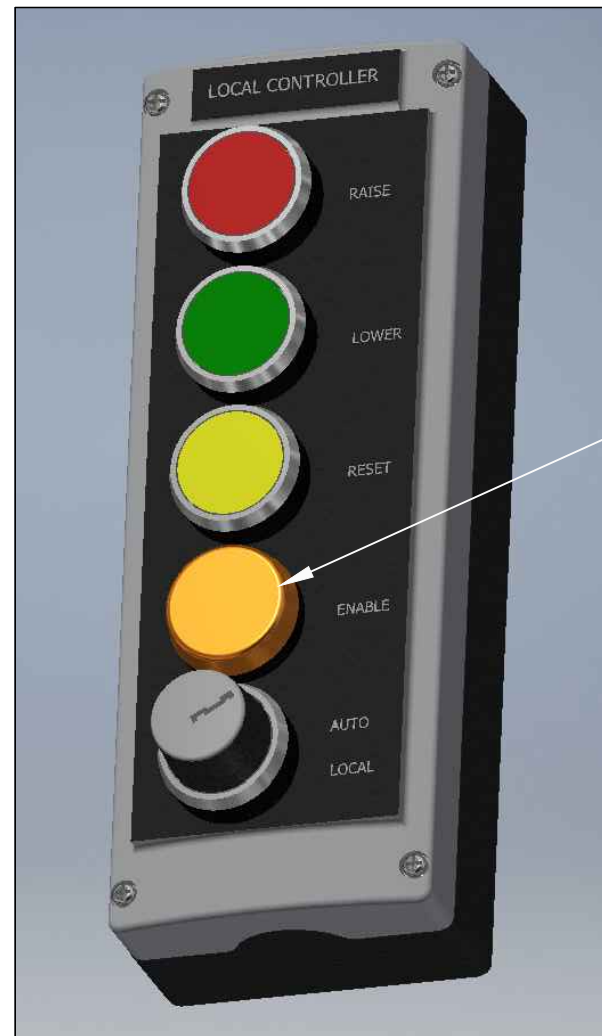
B1 NIMITZ M50

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LOCAL BARRIER CONTROLLERS

LOCAL CONTROLLER



LAMP INDICATES THAT LOCAL CONTROLLER HAS BEEN ENABLED AT MASTER CONTROL PANEL.



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LOCAL CONTROLS

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 9 OF 12

20240718-10-M

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CONTROLS COMMUNICATION SCHEMATIC

OPERATIONAL SEQUENCE PER SECOND (MIN. FOR SAFETY - 40 KPH (25MPH) DESIGN SPEED)

	ELAPSED TIME	0	1	2	3	4	5	6	7	8	9	10
TRAFFIC CONTROLS AND SAFETY AT ACTIVE BARRIER	TRAFFIC CONTROLS	NORMAL OPERATION	GUARD PERCEPTION AND REACTION TIME TO THREAT (EFO BUTTON) - 4 SECONDS						DEPLOYING BARRIER			THREAT CONTAINED
SIGN AND SIGNAL WARNING SYSTEM	WARNING SIGNS AND LIGHT WITH BEACONS	OFF	OFF	OFF	OFF	FLASHING YELLOW	FLASHING YELLOW	FLASHING YELLOW	FLASHING YELLOW	FLASHING YELLOW	FLASHING YELLOW	FLASHING YELLOW
	TRAFFIC SIGNAL	GREEN	GREEN	GREEN	GREEN	YELLOW	YELLOW	YELLOW	RED	RED	RED	RED
	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	ACTIVATED

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.



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TIME SEQUENCING DIAGRAM

HCB-ELE-1200
 WEBSITE DRAWING

SHEET: 10 OF 12

20240718-10-M

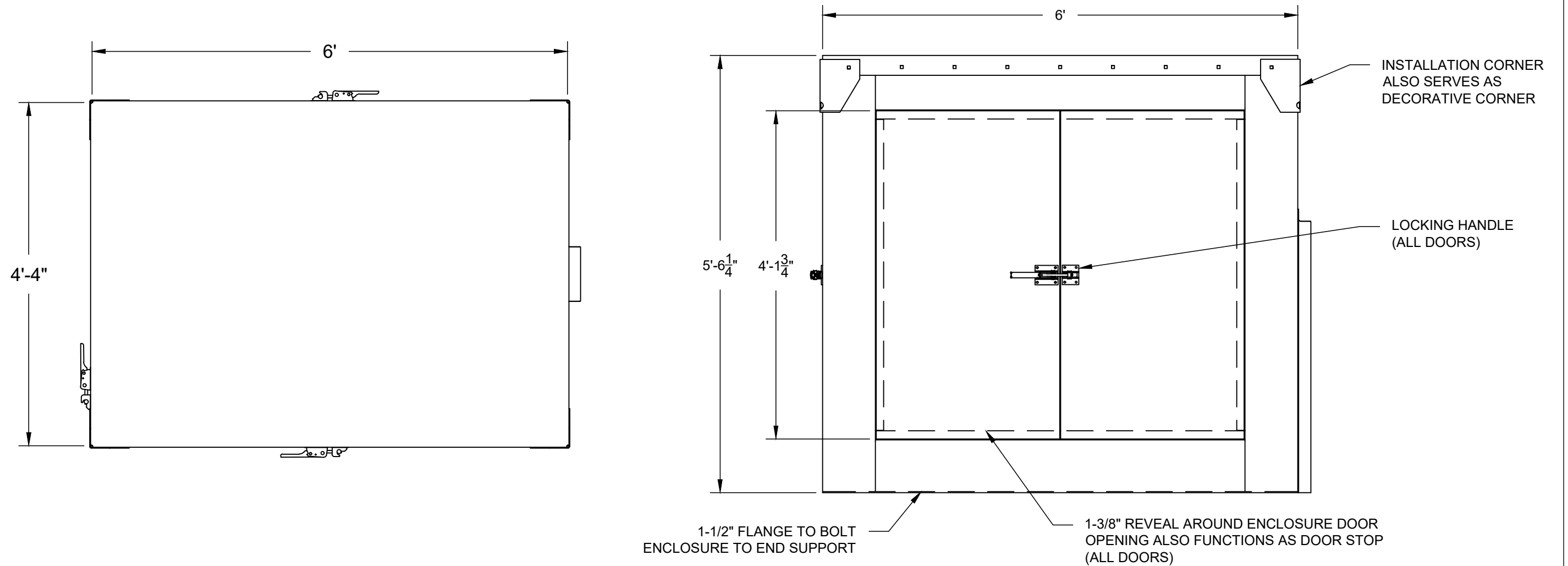
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END SUPPORT ENCLOSURES AND LOCKING ACCESS DOORS



NOTES:

1. ENCLOSURE MATERIALS ARE 3/16" ALUMINUM WITH STANDARD PAINTED GRAY FINISH.
2. ENCLOSURES HAVE DOUBLE DOORS ON BOTH SIDES, AND A SINGLE DOOR IN REAR.



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ENCLOSURE DETAIL
(1 OF 2)

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 11 OF 12

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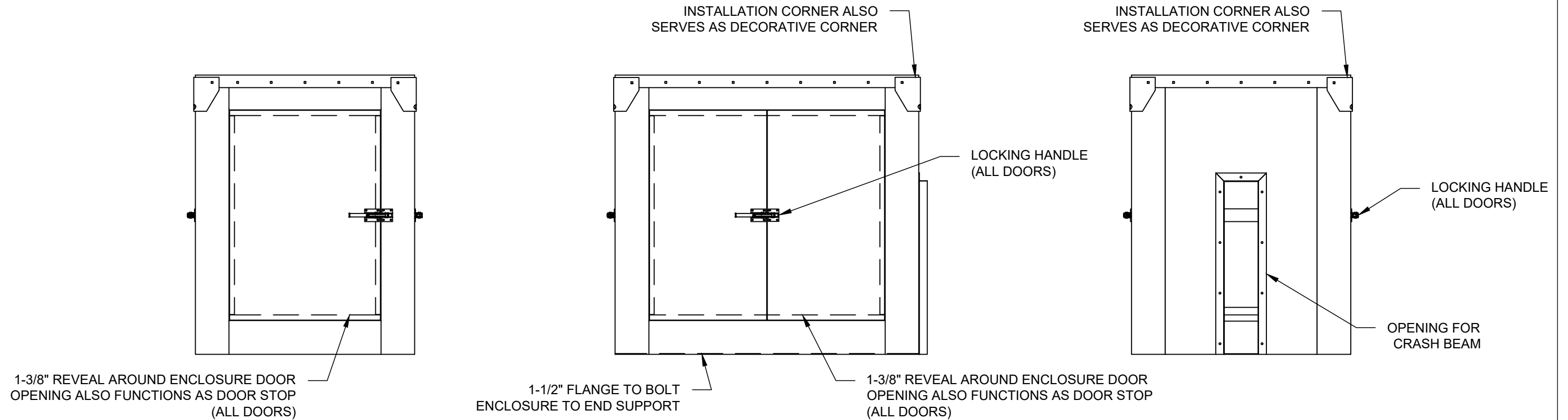
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CONTROL AND STATIC SIDE END SUPPORT ENCLOSURES



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ENCLOSURE DETAIL
(2 OF 2)

HCB-ELE-1200
WEBSITE DRAWING

SHEET: 12 OF 12

20240718-10-M

SCALE: N.T.S.