08-04-2023 LETTING ITEM 025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D-91-126-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES (I-55, I-57, I-80 & IL 394)
AT VARIOUS EXPRESSWAY MEDIANS
SECTION: 2023 VAR CABLE
HIGH TENSION CABLE BARRIER REPAIR
VARIOUS COUNTIES
C-91-180-23

SEE LOCATION MAP
SHEET 4

J.U.L.I.E.

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JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

1-800-892-0123 OR 811

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580 PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62U93

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

### SHEET NO. DESCRIPTION

INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES

LOCATION MAP

SUMMARY OF QUANTITIES

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HIGH TENSION GUARDRAIL DETAILS (BRIFEN USA) 5 - 6

HIGH TENSION GUARDRAIL DETAILS (GIBRALTAR)

HIGH TENSION GUARDRAIL DETAILS (TRINITY)

ENTRANCE RAMP AND CLOSURE DETAILS (TC-08)

TRAFFIC CONTROL AND PROTECITON FOR SIDE ROADS, INTERSECTIONS AND 10 DRIVEWAYS (TC-10)

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO 11 TRAFFIC) (TC-14)

HIGHWAY TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND 12 PARTIAL RAMP CLOSURES (TC-17)

13 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)

### STATE STANDARDS

STANDARD NO.	DESCRIPTION
635001 - 02	DELINEATORS
701101 - 05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106 - 02	OFF-ROAD OPERATIONS, MULTILANE, > 15' AWAY
701400 - 11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411 - 09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701421 - 08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426 - 09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
701428 - 01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901 - 08	TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CALL STATE ELECTRICAL CONTRACTOR AT (773) 287-7600 TO LOCATE STATE OWNED FACILITIES.

THE CONTRACTOR SHALL WORK IN THE DIRECTION OF TRAFFIC.

THE CONTRACTOR WILL NOT BE ALLOWED TO STORE MATERIALS OVERNIGHT

THE PROPOSED DEPTH OF THE CONCRETE SOCKETED FOUNDATIONS SHALL BE 42" (MINIMUM).

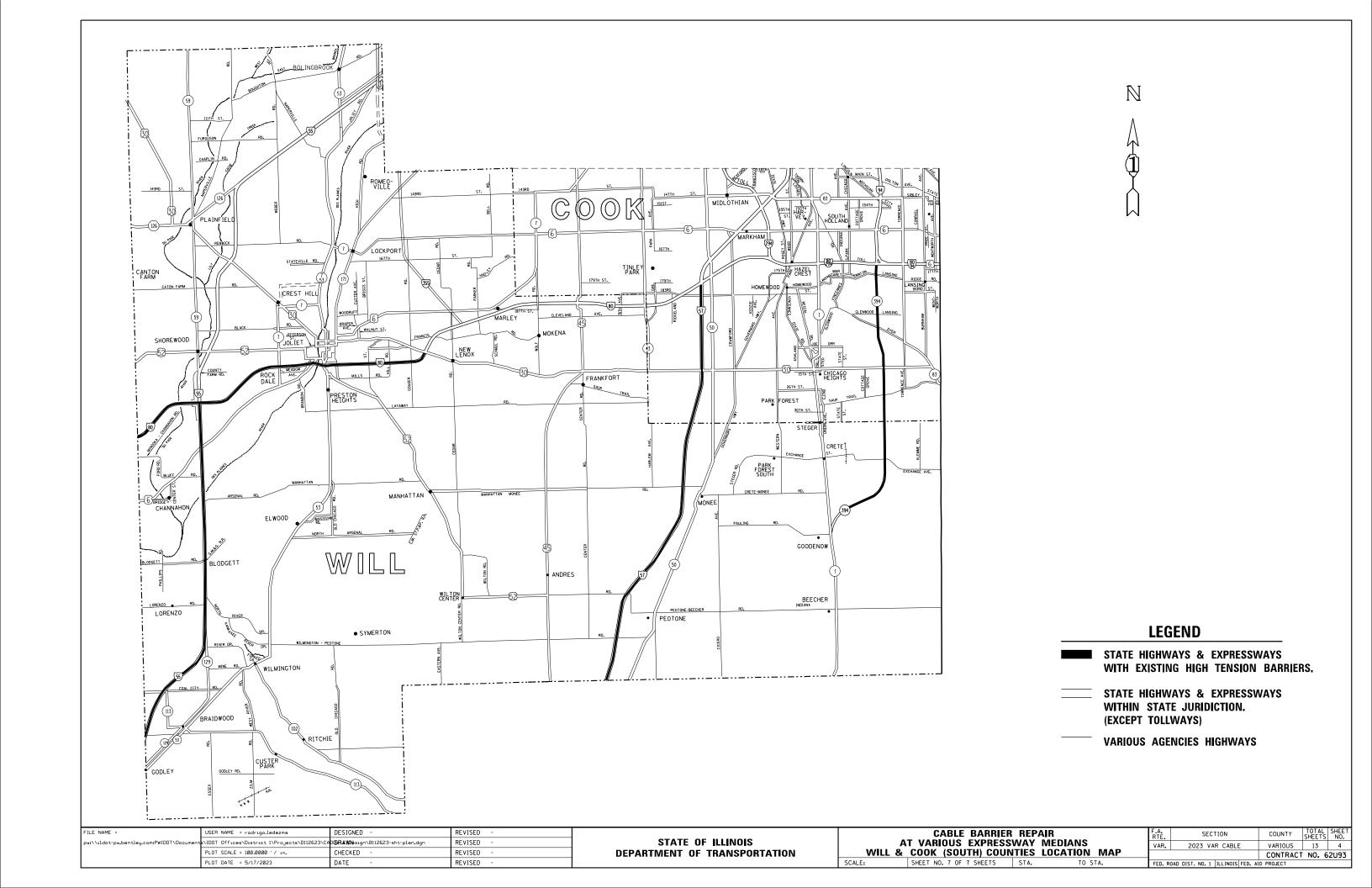
STANDARDS 701400 & 701401 SHALL BE USED FOR ALL LANE CLOSURES EXCEPT ON IL 394 SOUTH OF SAUK TRAIL, WHERE STANDARD 701421 SHALL

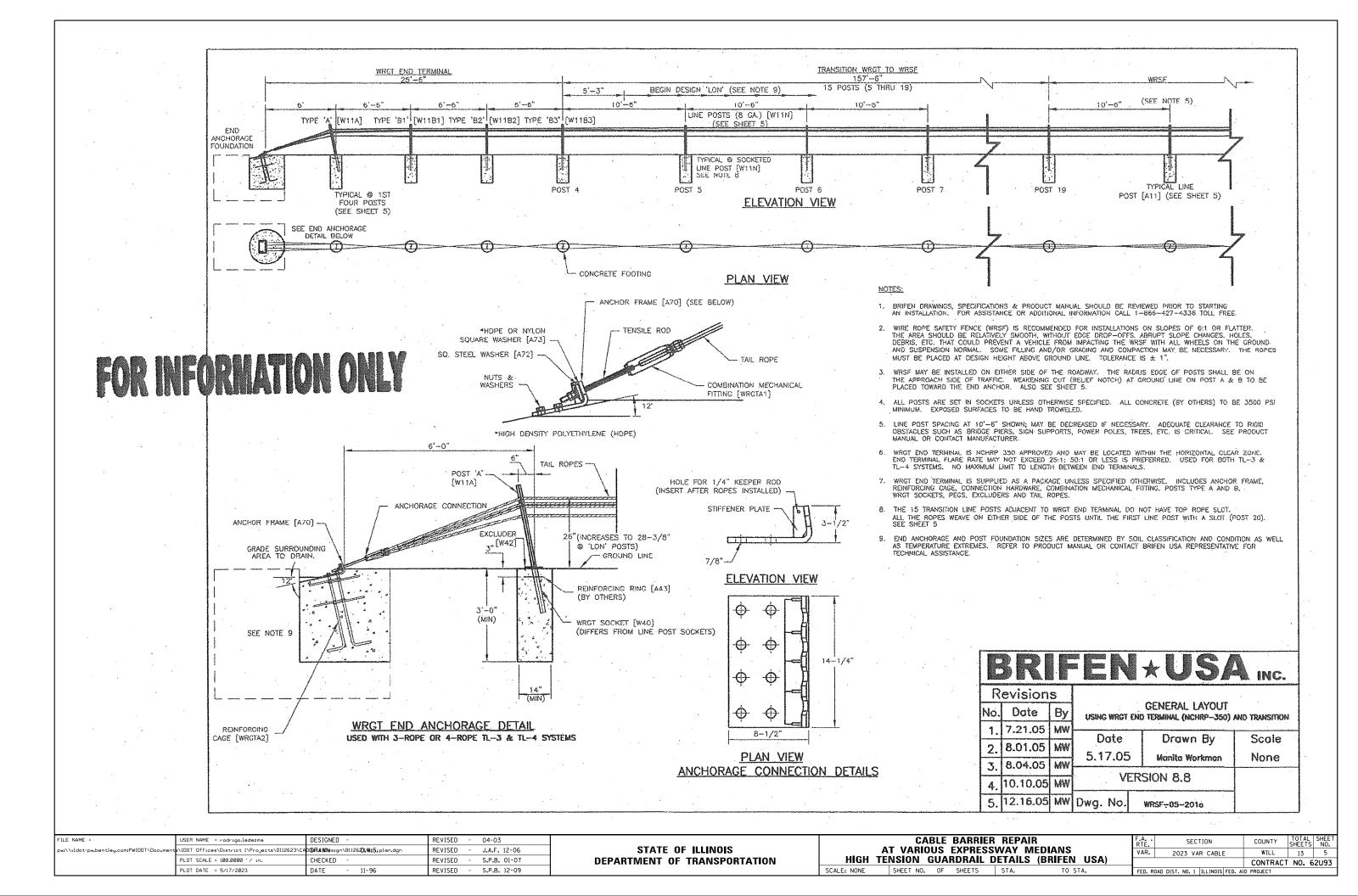
CONTRACTOR SHALL REGISTER, SUBMIT AND GAIN THE APPROVAL FOR ALL DAILY LANE CLOSURE REQUESTS VIA <u>www.idotlcs.com</u> at least 24 hours IN ADVANCE OF ALL WORK.

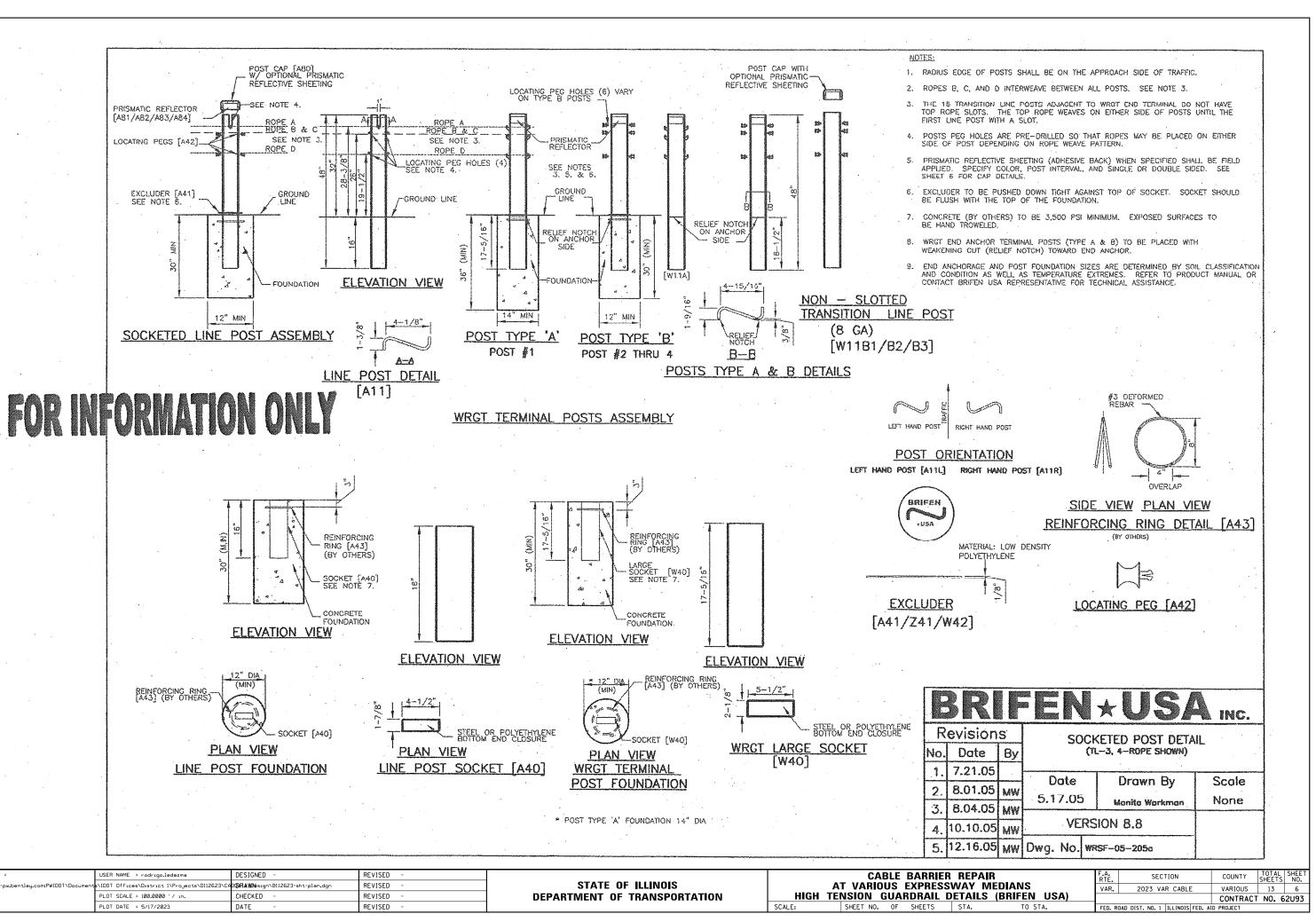
10. THE CONTRACTOR SHALL NOTIFY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, EXPRESSWAY TRAFFIC CONTROL SUPERVISOR (847-705-4151) 72 HOURS IN ADVANCE OF ALL WORK ON THE INTERSTATE.

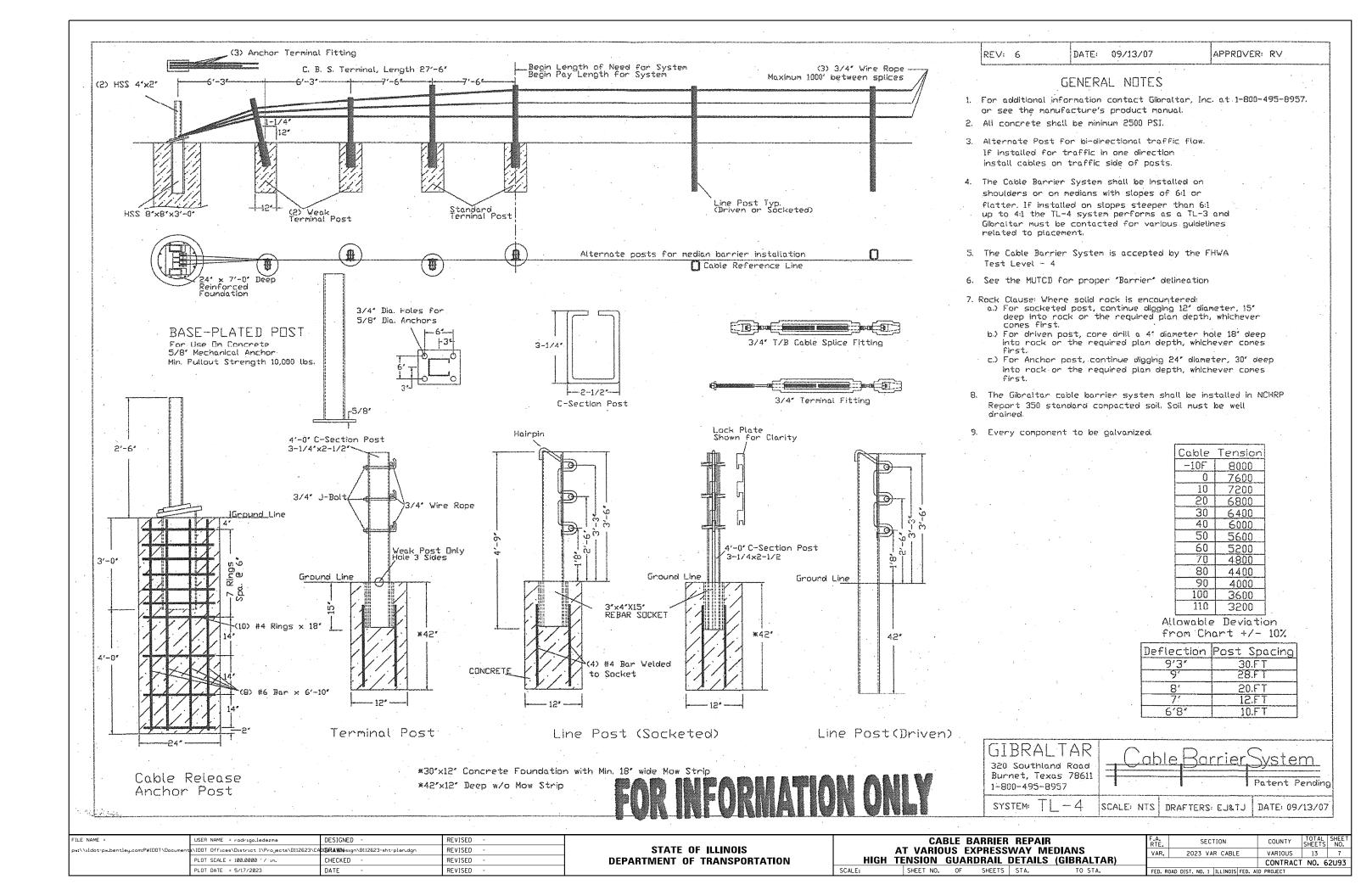
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	PLOT DATE = 5/17/2023	DATE -	REVISED -	1

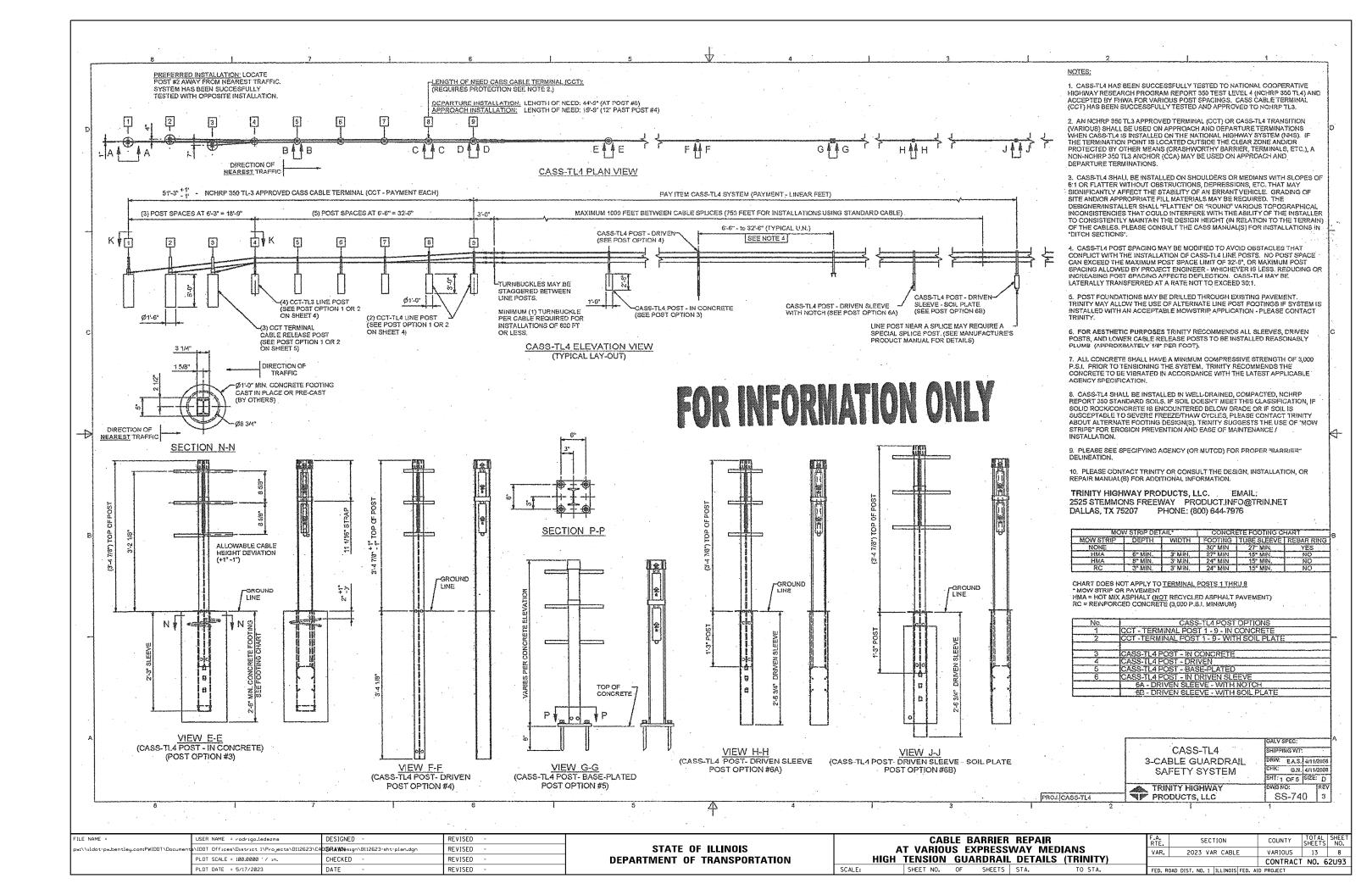
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X6440156	REPAIR HIGH TENSION CABLE SYSTEM END	EACH	8	7	1	×										,	÷		-
	SECTION (BRIFEN)	>				100											•		
X6440153	REPAIR POSTS (BRIFEN)	EACH	750	720	30														
X6440130	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	120	115	5								-				:		
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	SECTION (GIBRALTAR)																2		
X6440160	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	90	86	4														
X6440163	REPAIR POSTS (TRINITY)	EACH	75	72	3	1.51			5 3										
X6440166	REPAIR HIGH TENSION CABLE SYSTEM END	EACH	4	3	1														
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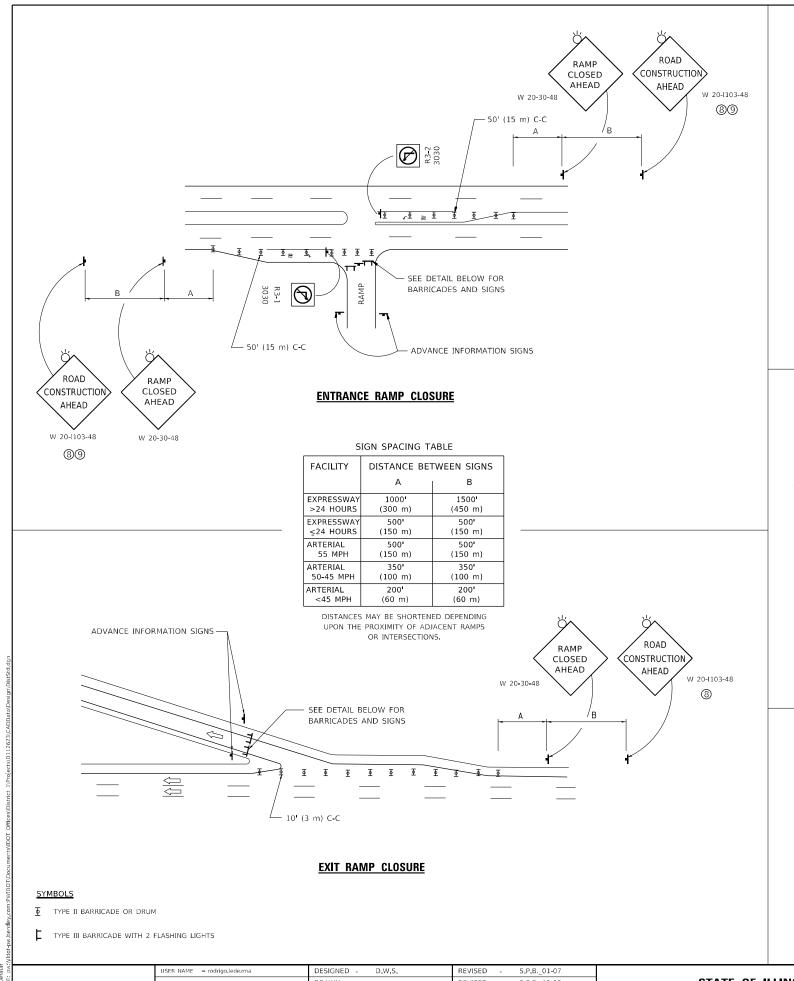


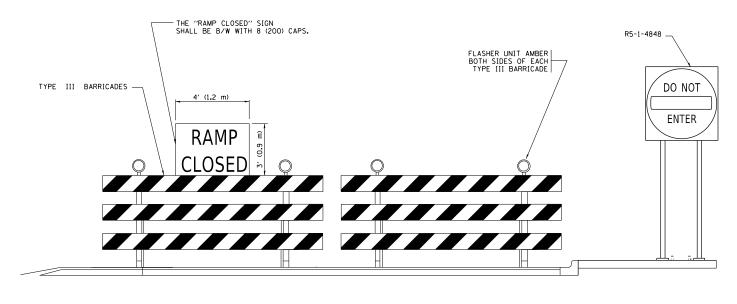






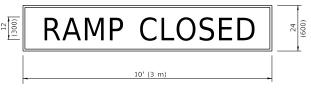






**DETAIL FOR REQUIRED BARRICADES & SIGNS** 

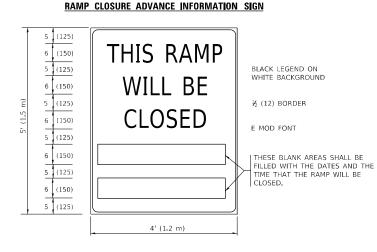
#### RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

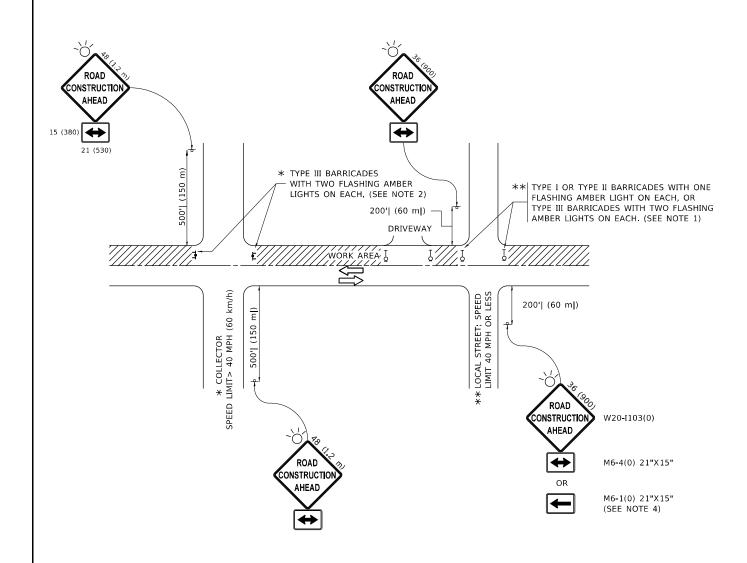
### GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

USER NAME = rodrigo.ledezma	DESIGNED - D.W.S.	REVISED - S.P.B01-07		ENTRANCE AND EXIT RAMP	F.A. RTF	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED - S.P.B12-09	STATE OF ILLINOIS		VAR	2023 VAR CABLE	VARIOUS 13 9
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED - M.D06-13	DEPARTMENT OF TRANSPORTATION	CLOSURE_DETAILS		TC-08	CONTRACT NO. 62U93
PLOT DATE = 5/17/2023	DATE - 02-83	REVISED - M.D. 01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT



### NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE,
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
  b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
  OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
  4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
  BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

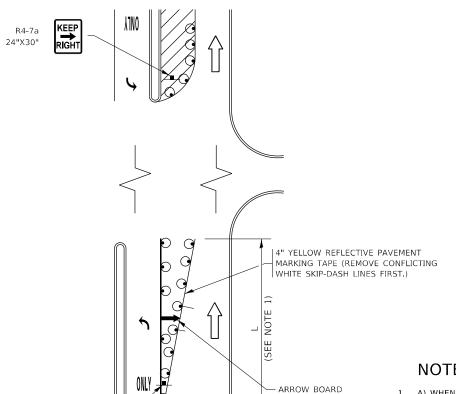
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = rodrigo.ledezma	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 5/17/2023	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

;	TRAFFIC C SIDE ROADS,				TION FOR DRIVEWAYS
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### TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER





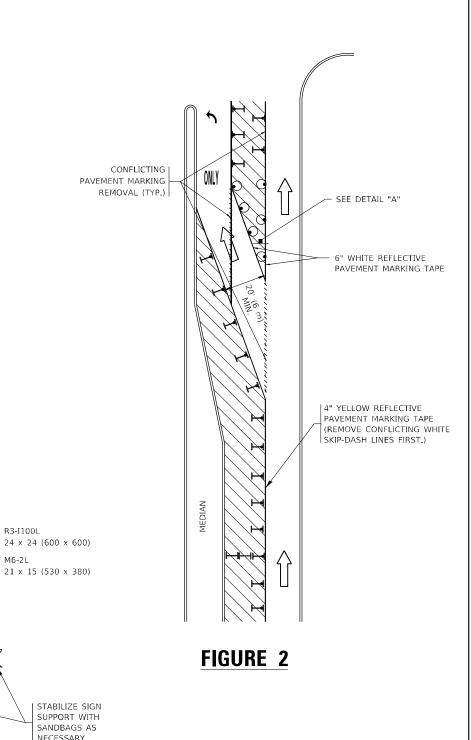
SEE DETAIL "A"

## **LEGEND** WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREOUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

### **TURN BAY ENTRANCE** WITHIN A LANE CLOSURE



### **DETAIL A**

TURN

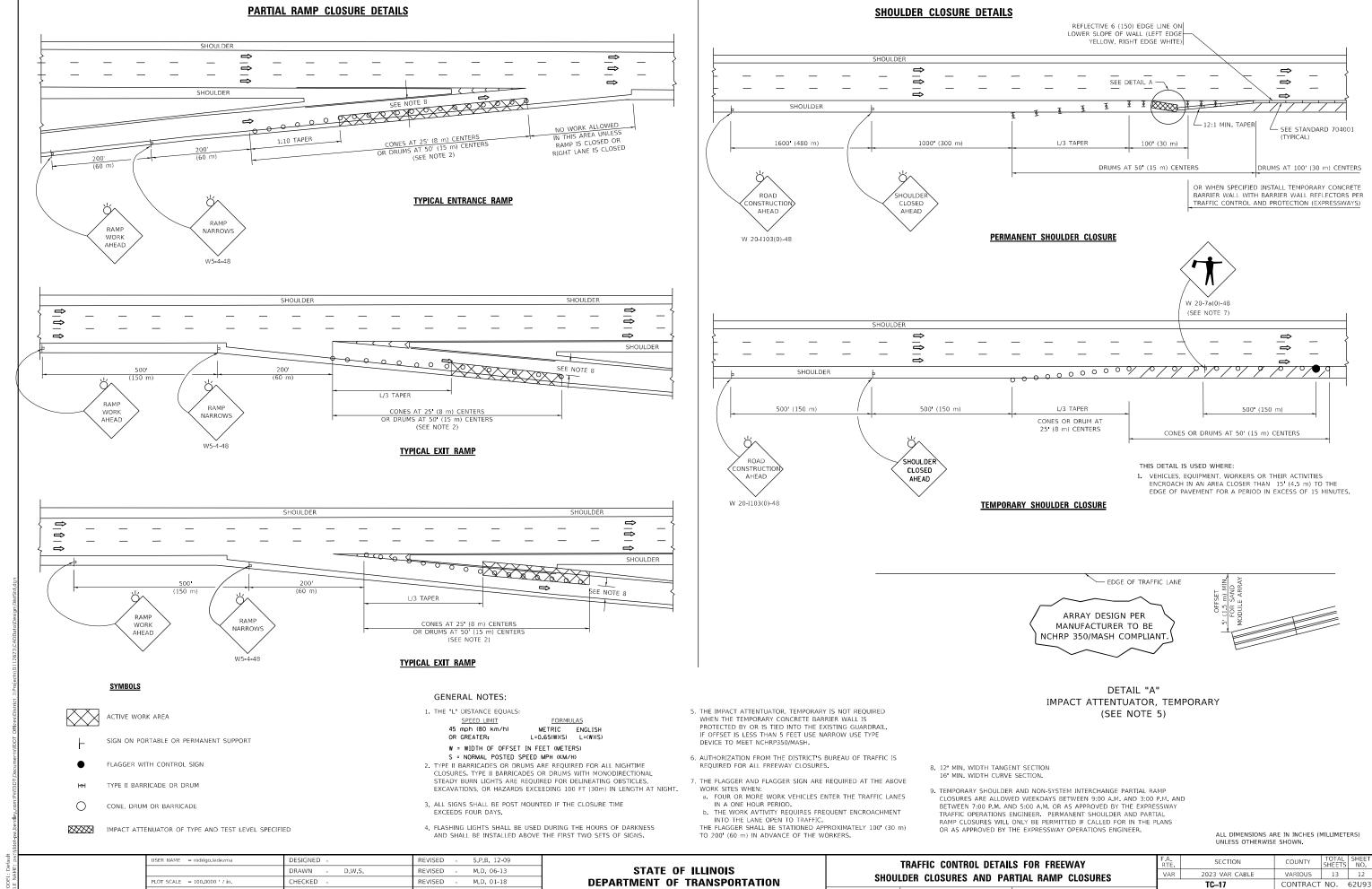
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = rodrigo.ledezma	DESIGNED	- T.	RAMMACHER 09-08-94	REVISED	-	R. BORO 09-14-09
	DRAWN	-	A. HOUSEH 11-07-95	REVISED	- A	. SCHUETZE 07-01-13
PLOT SCALE = 100.0000 / in.	CHECKED	-	A. HOUSEH 10-12-96	REVISED	- A	. SCHUETZE 09-15-16
PLOT DATE = 5/17/2023	DATE	_ T	RAMMACHER 01-06-00	REVISED		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS										
	(TO REMAIN OPEN TO TRAFFIC)									
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SECTION 2023 VAR CABLE VARIOUS 13 11 TC-14 CONTRACT NO. 62U93



M.D. 10-20

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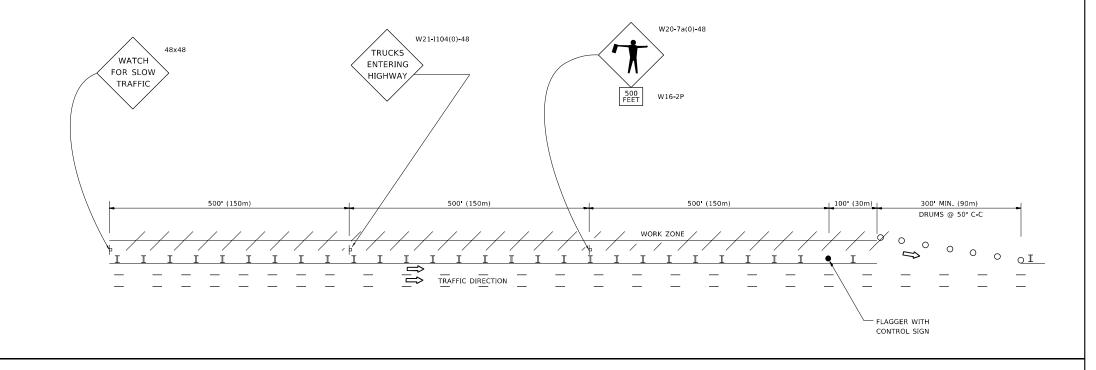
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PLOT DATE = 5/17/2023

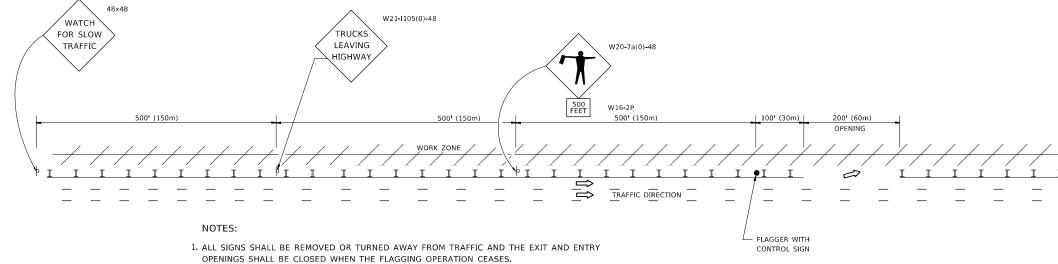
DATE

### SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

### WORK ZONE EXIT OPENING



#### WORK ZONE ENTRY OPENING



- OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
- 2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
- 5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = rodrigo.ledezma	DESIGNED -	REVISED	-	J.A.F. 02-06
	DRAWN -	REVISED	-	S.P.B. 01-07
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	-	S.P.B. 12-09
PLOT DATE = 5/17/2023	DATE -	REVISED	-	M.D.06-13

### STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					OPERATIONS					
A1 W011	AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS									
SCALE: NONE	SHEET 1	OF 1	SHEETS ST	ΓA.	TO STA.					

F.A. RTE	SECT	LION	COUNTY	TOTAL SHEETS	SHEE NO.	
VAR	2023 VA	R CABLE	VARIOUS	13	13	
	TC-18			CONTRACT	NO.	62U9:
		ILLINOIS	FED. A	ID PROJECT		