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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

D-91-125-23

VAR 2023 VAR GUARDRAIL FED. ROAD DIST. NO.

VARIOUS 32 1

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE: VARIOUS EXPRESSWAY AND ARTERIALS

HIGHWAYS - DISTRICT ONE

SECTION: 2023 VAR GUARDRAIL

GUARDRAIL REPAIRS VARIOUS COUNTIES

C-91-179-23

SEE LOCATION MAPS SHEETS 5 THRU 13

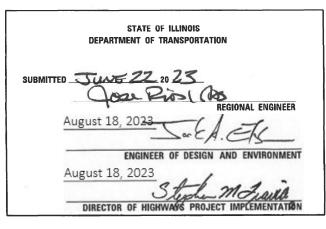
C.U.A.N. CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

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

CONTRACT NO. 62U92





KANE, DUPAGE, LAKE, MCHENRY AND WILL COUNTIES.

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

	INDEX OF SHEETS		LIST OF STATE STANDARDS
1	COVERSHEET	630001 - 12	STEEL PLATE BEAM GUARDRAIL
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES	630301 - 09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
3 - 4	SUMMARY OF QUANTITIES	631006 - 08	TRAFFIC BARRIER TERMINAL, TYPE 1B
5	McHENRY COUYNTY LOCATION MAP	631011 - 10	TRAFFIC BARRIER TERMINAL, TYPE 2
		631026 - 06	TRAFFIC BARRIER TERMINAL, TYPE 5
6	LAKE COUNTY LOCATION MAP	631031 - 18	TRAFFIC BARRIER TERMINAL, TYPE 6
7	NORTH KANE COUNTY LOCATION MAP	701006 - 05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
8	NORTH DU PAGE COUNTY LOCATION MAP	701011 - 04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
9	NORTH COOK COUNTY LOCATION MAP	701101 - 05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
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		701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
12	SOUTH DU PAGE COUNTY LOCATION MAP	701311 - 03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
13	WILL COUNTY LOCATION MAP	701336 - 07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
14	TYPICAL DETAIL TO ANCHOR STEEL PLATE BEAM GUARD RAIL ON CONCRETE (BM-02)	701400 - 11	APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY
15	TYPICAL DETAIL FOR GUARDRAIL ANCHOR BLOCK REPAIR (BM-03)	701401 - 13	LANE CLOSURE, FREEWAY/ EXPRESSWAY LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED > 45
16	TYPICAL DETAILS FOR STEEL PLATE BEAM GUARDRAIL	701411 - 09	MPH LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS > 45 MPH
17	ANCHORAGE REPAIR (BM-04) DETAIL FOR CENTER LONGITUDINAL GUARDRAIL JOINT	701421 - 08	TO 55 MPH LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR
18	(BM-05) DETAIL OF STEEL PLATE BEAM GUARDRAIL SPECIAL (BM- 06)	* 701426 - 09 701427 - 05	SPEEDS > 45 MPH LANE CLOSURE, MULTILANE, INTERMITTANT OR MOVING OPERATIONS < 40 MPH
19	DETAIL OF GUARDRAIL SUPPORT AND END ANCHORAGE	701428 - 01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
20	(BM-07) DETAIL OF THRIE-BEAM GUARDRAIL WITH MODIFIED	701501 - 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
E	OFFSET BLOCK	701502 - 09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
21	STEEL PLATE BEAM GUARDRAIL STEEL BLOCK-OUT DETAIL CURB REMOVAL (PARTIAL) AND SHOULDER WIDENING	701601 - 09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
چ 22 22	FOR TRAFFIC BARRIER TERMINAL , TYPE 1 SPECIAL	701606 - 10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
23	STEEL BRIDGE RAIL DETAIL	701701 - 10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
24 - 26	T6 TERMINAL FOR USE WITH 21" HIGH SPBGR (BM-22)	701801 - 06	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
27	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701901 - 08	TRAFFIC CONTROL DEVICES
28 28	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE	720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
29 29	AND MULTI-LANE WEAVE TC-09) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,	782006 - 01	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS
#0 1000 0 1000 1000 1000 1000 1000 1000	INTERSECTIONS AND DRIVEWAYS (TC-10) TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-		
Jocume	14) TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND		
31 32	PARTIAL RAMP CLOSURES (TC-17) SIGNING FOR FLAGGING OPERATIONS AT WORK		
ot-pw.bent	ZONEOPENINGS (TC-18)		

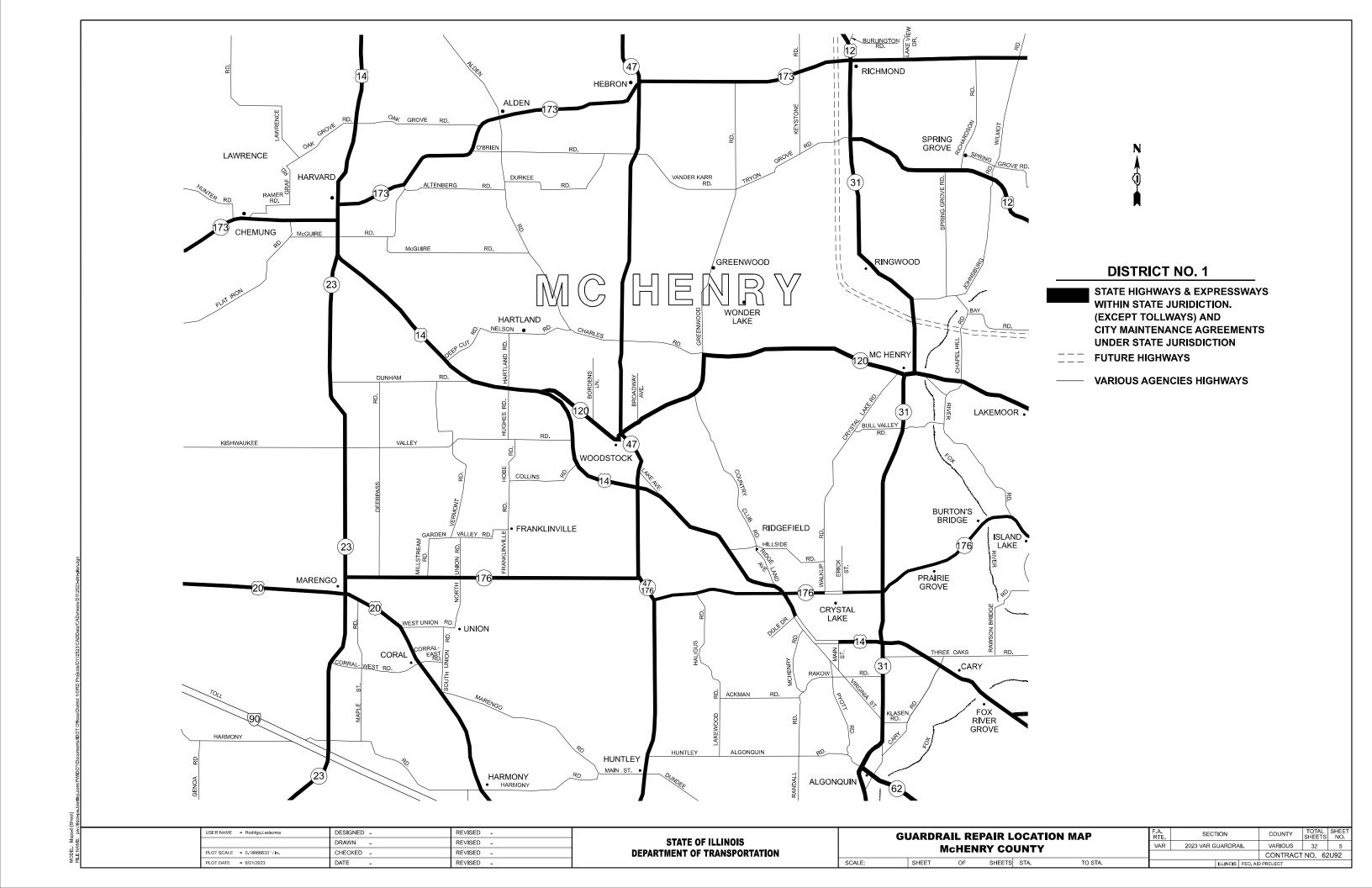
GENERAL NOTES

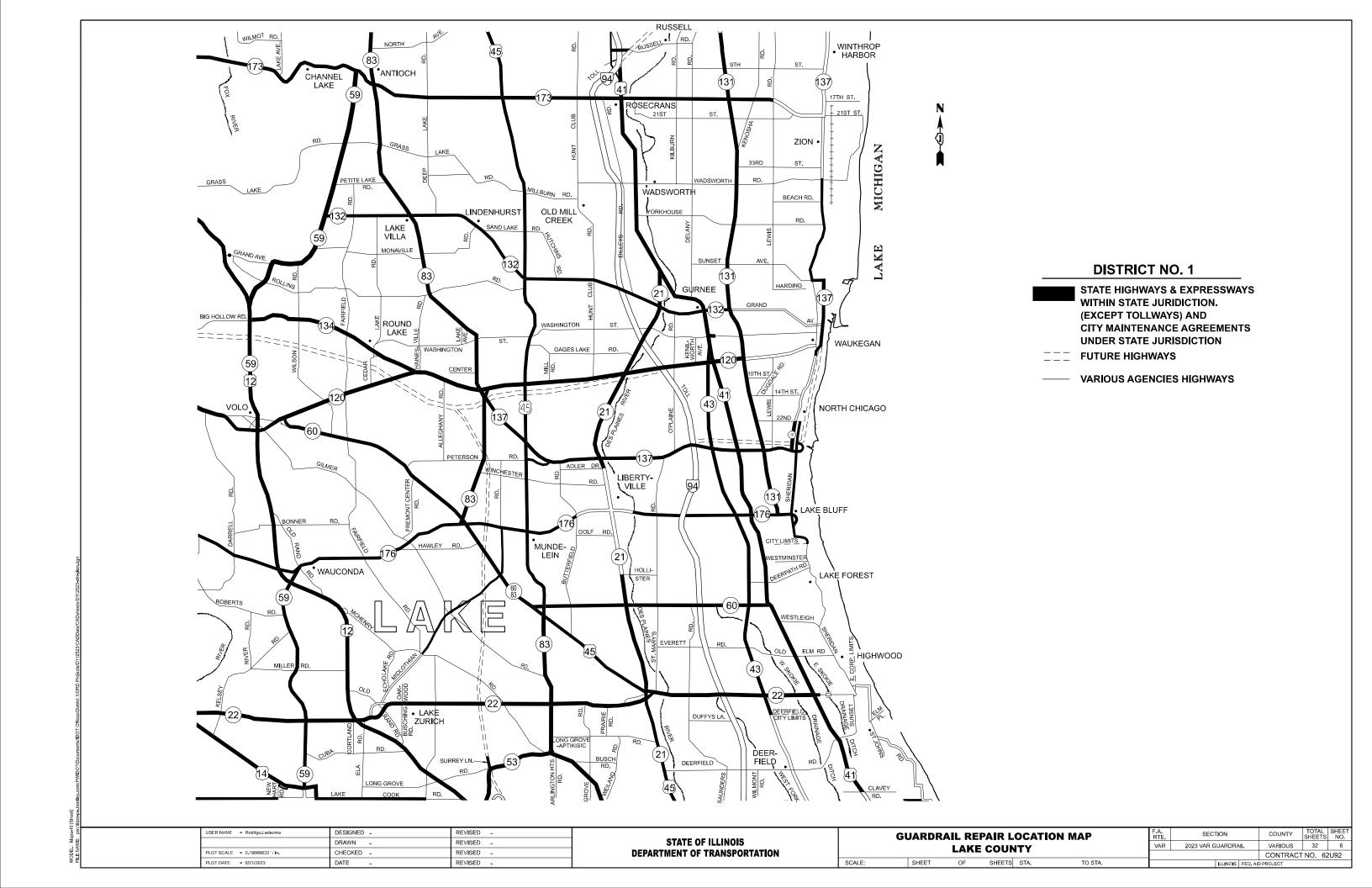
- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 OR "CUAN" AT (312) 744-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. ALL WORK IS TO BE REPLACED IN KIND OR AS INDICATED ON THE CONTRACT QUANTITY SHEET. GUARDRAIL WORK WILL INCLUDE ALIGNMENT AS NECESSARY TO RESTORE THE RAIL TO THE ORIGINAL CONDITIONS.
- 3. REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.
- NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE HEREWITH ATTACHED.
- 6. THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.
- 7. REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- . GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
- 9. THE CONTRACTOR SHALL TELEPHONE THE IDOT BUREAU OF TRAFFIC OPERATIONS, ELECTRICAL MAINTENANCE SECTION AT 708-524-2145 TO REQUEST THE LOCATE FOR UNDERGROUND ELECTRICAL AND/OR FIBER CABLE PRIOR TO ANY DIGGING AS PER THE CONTRACT.
- 10. REMOVAL OF EXISTING TERMINAL SECTIONS INCLUDED IN COST OF NEW TERMINAL SECTIONS
- 11. THE CONTRACTOR SHALL SUBMIT ALL DAILY LANE, RAMP AND SHOULDER CLOSURES VIA WWW.IDOTLCS.COM AT LEAST 24 HOURS IN ADVANCE OF ALL DAILY LANE, AND RAMP AND SHOULDER CLOSURES. THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT (847) 705-4151 OR (847) 705-4155.
- 12. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

* MOVING LANE CLOSURES NOT PERMITTED ON EXPRESSWAYS

	SUMMARY OF QUANTITIES				CC	ONSTRUCTION	ON TYPE CC	DDE			SUMMA	RY OF QUANTIT I ES				CC	NSTRUCTION TYPE (ODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021					CODE NO		ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021			
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, (5 FOOT	386	309	77					X6300215	RAIL ELEMENT	PLATES	EACH	2078	1662	416			
	FOOT POSTS																		
										X6300217	RAIL ELEMENT	PLATES (RADIUS)	EACH	2078	1662	416			
63100041	TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	3	2	1														
										X6300222	CONNECTING E	ND SECTION	EACH	111	89	22			
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	11	9	2														
										X6300224	RETURN END S	ECTION	EACH	3	2	1			
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	3	2	1														
										X6300225	SINGLE END S	ECTION	EACH	17	14	3			
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	5	1														
										X6300230	STEEL POSTS		EACH	1262	1010	252			
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	62	50	12														
	(SPECIAL) TANGENT									X6300310	REMOVE AND R	EPLACE GUARDRAIL CHANNEL	EACH	66	53	13			
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	10	8	2					X6300610	THRIE BEAM G	UARDRAIL ELEMENT PLATES	EACH	7	6	1			
	(SPECIAL) FLARED																		
										X6300620	THRIE-BEAM M	ODIFIED BLOCKS	EACH	7	6	1			
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	506	405	101														
										X6300630	THRIE-BEAM P	OSTS	EACH	7	6	1			
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	23	18	5														
23-sht-SOC										X6300640	THRIE BEAM R.	ADIUS ELEMENT PLATES	EACH	4	3	1			
X2300001	MISSING OR FAILED ANCHOR CABLES	EACH	16	13	3														
ata/CADsh										X6310163	TRAFFIC BARR	IER TERMINAL, TYPE 1, NOSE	EACH	10	8	2			
មុខ ្លួន X2300002	MISSING OR FAILED LAG BOLTS	EACH	16	13	3														
rojects/D11;										X6310177	TRAFFIC BARR	IER TERMINAL, TYPE 3	EACH	4	3	1			
X2300019	REATTACHING AND REALIGNING TERMINALS	EACH	32	26	6						(SPECIAL)								
Offices/Dist	AND RAIL ELEMENT PLATES																		
ents/IDOT (X6310203	TRAFFIC BARR	IER TERMINAL, TYPE 3	EACH	3	2	1			
X4402302	CURB REMOVAL (PARTIAL)	FOOT	149	119	30						SPECIAL. NOS	E							
X6300210	GUARDRAIL BLOCKS	EACH	1631	1305	326					X6330800	GUARDRAIL PO	ST VERTICAL ADJUSTMENT	EACH	23	18	5			
E: pw://lik	·	DESIGNED - DRAWN -	<u> </u>	REVISED REVISED	-			eT	TATE OF ILI	I INOIS			1	1	<u> </u>	F.A. RTE.	SECTION		OTAL SHEET HEETS NO.
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13	SUMMARY OF QUANTITIES		Ī		CC	ONSTRUCTIC	N TYPE CO	DE			SUMMARY OF QUANTITIES				CC	NSTRUCTION T	PE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021					CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021			
X6331105	STEEL POSTS, MODIFIED	EACH	29	23	6					Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	4	3	1			
X6331110	STEEL POSTS (SPECIAL)	EACH	18	14	4	, c					5							
Z0007124	STEEL RAILING (SPECIAL)	FOOT	55	44	11				,	Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	5	4	1	II		
+	REPAIR TRAFFIC BARRIER TERMINAL TYPE 3 SPECIAL	EACH	9	7	2					Z0059660	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - RAIL ELEMENT PLATE	EACH	117	94	23			
1	REPAIR TRAFFIC BARRIER TERMINAL TYPE	EACH	405	324	81					Z0078000	WOOD RAIL	FOOT	360	288	72			
	1 SPECIAL - POST								F	X6310301	REPAIR TRAFFIC BARRIER TERMINAL TYPE	EACH	322	258	64			
Z0051400	REMOVING AND RESETTING POSTS	EACH	75	60	15						1 SPECIAL							
Z0052100	REPAIR STEEL PLATE BEAM GUARDRAIL,	FOOT	170	136	34	es P												
à	ТҮРЕ В									-								
1	REPAIR STEEL PLATE BEAM GUARDRAIL,	FOOT	75	60	15													
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	9	7	2													
TOTAL OUTGOES SCHOOL SC	1																4	
	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	3	2	1													
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	35	28	7			10	· ·									2 1
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	4	3	1										t/			
E NAME. PW/MOCFPW.BSR1	C	ESIGNED - RAWN - HECKED -	100	REVISED REVISED REVISED	-		DI		ATE OF IL	LLINOIS ANSPORTA	TION SUMMARY	OF QUAN		TO STA+_	F.A. RTE. VAR	SECTION 2023 VAR GUARDE		TOTAL SHEET SHEETS NO. 32 4







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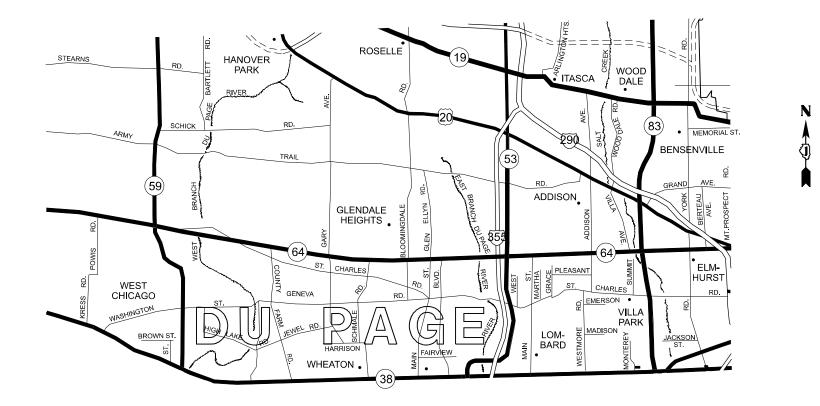
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP
NORTH OF AND INCLUDING IL RTE 38

SHEET OF SHEETS STA. TO STA.

SCALE:



DISTRICT NO. 1

STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION. (EXCEPT TOLLWAYS) AND **CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION**

FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

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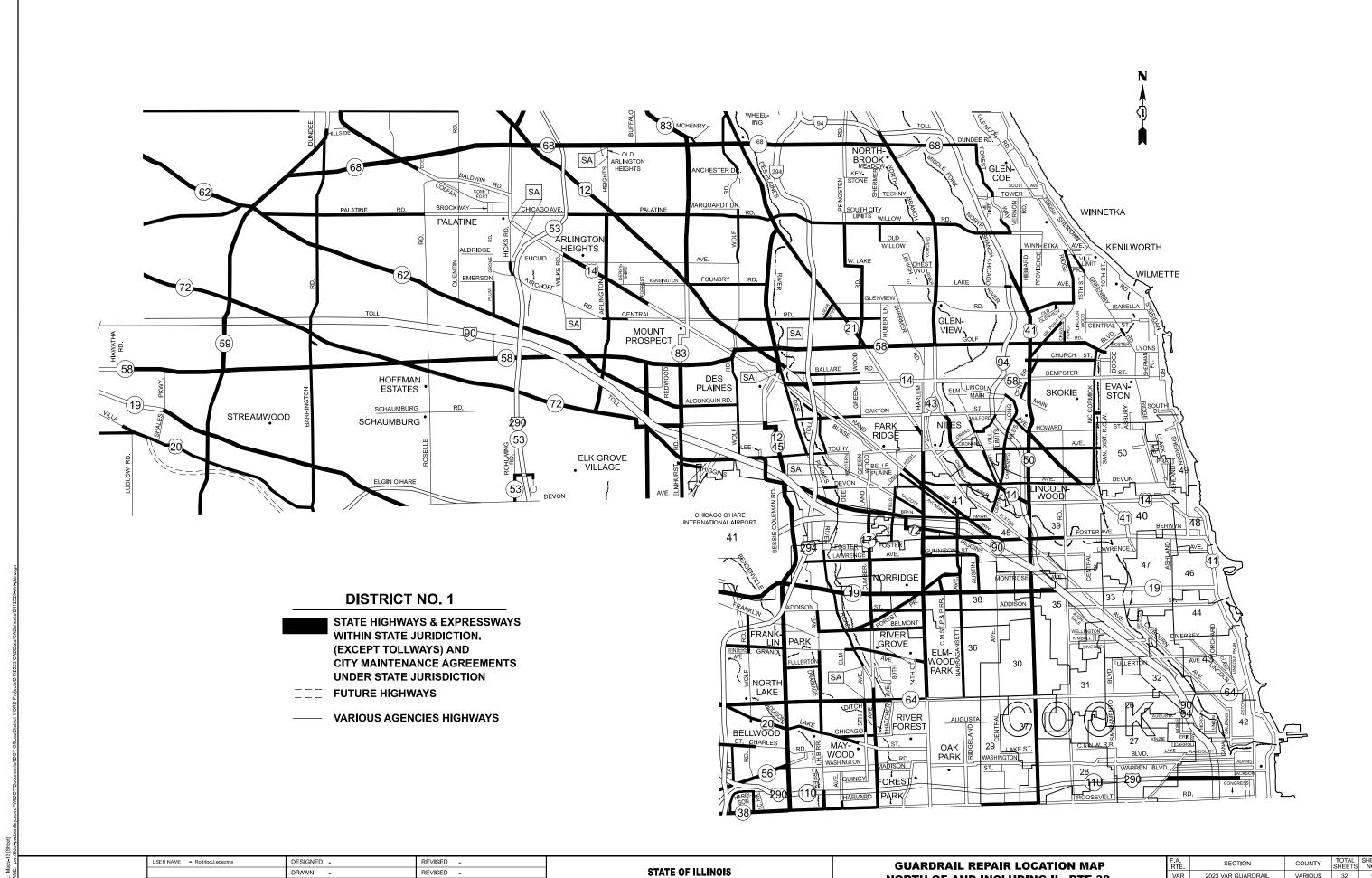
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPAIR LOCATION MAP NORTH OF AND INCLUDING IL RTE 38 SHEET OF SHEETS STA.

SECTION
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 VARIOUS
 32
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 CONTRACT NO. 62U92
 VAR 2023 VAR GUARDRAIL

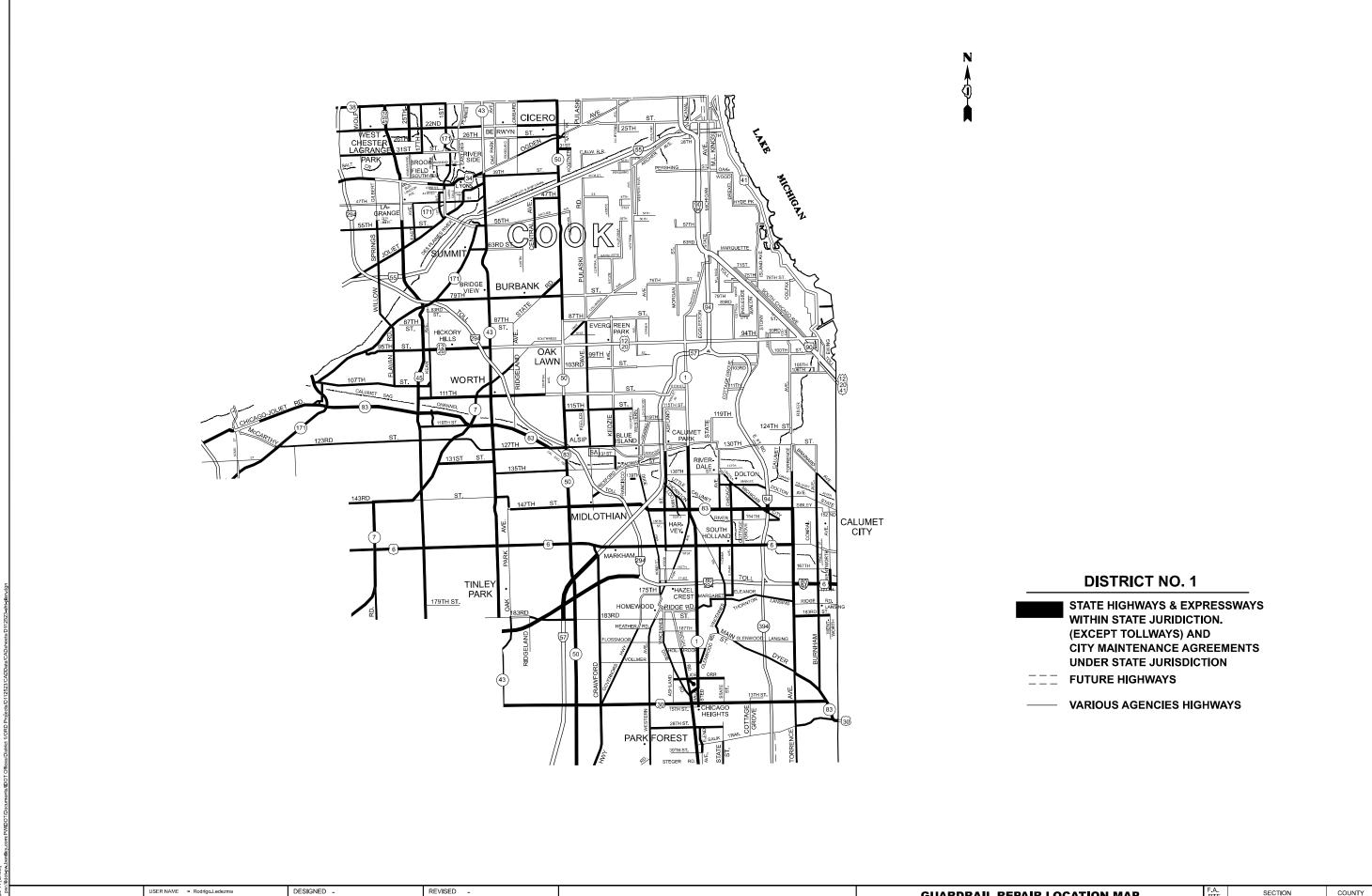


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DEPARTMENT OF TRANSPORTATION

NORTH OF AND INCLUDING IL. RTE 38 OF SHEETS STA.

VARIOUS 32 9 VAR 2023 VAR GUARDRAIL CONTRACT NO. 62U92



STATE OF ILLINOIS

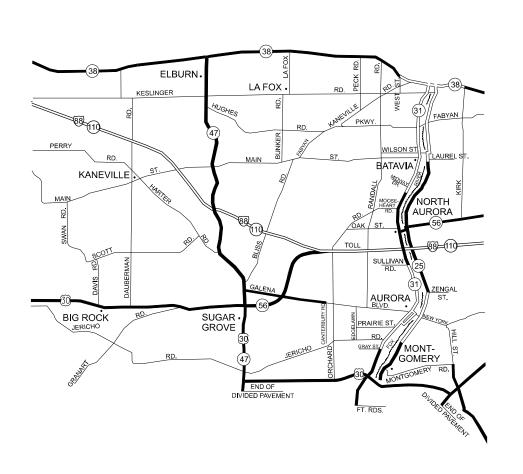
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GUARDRAIL REPAIR LOCATION MAP SOUTH OF IL RTE 38 OF SHEETS STA.

COUNTY TOTAL SHEET NO.

VARIOUS 32 10 SECTION VAR 2023 VAR GUARDRAIL CONTRACT NO. 62U92





STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND
CITY MAINTENANCE AGREEMENTS
UNDER STATE JURISDICTION

___ FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

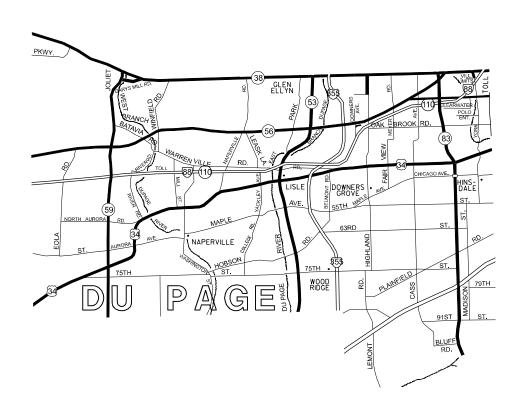
GUARDRAIL REPAIR LOCATION MAP SOUTH OF IL RTE 38

SHEET OF SHEETS STA. TO STA.

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DISTRICT NO. 1

STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND
CITY MAINTENANCE AGREEMENTS
UNDER STATE JURISDICTION

___ FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

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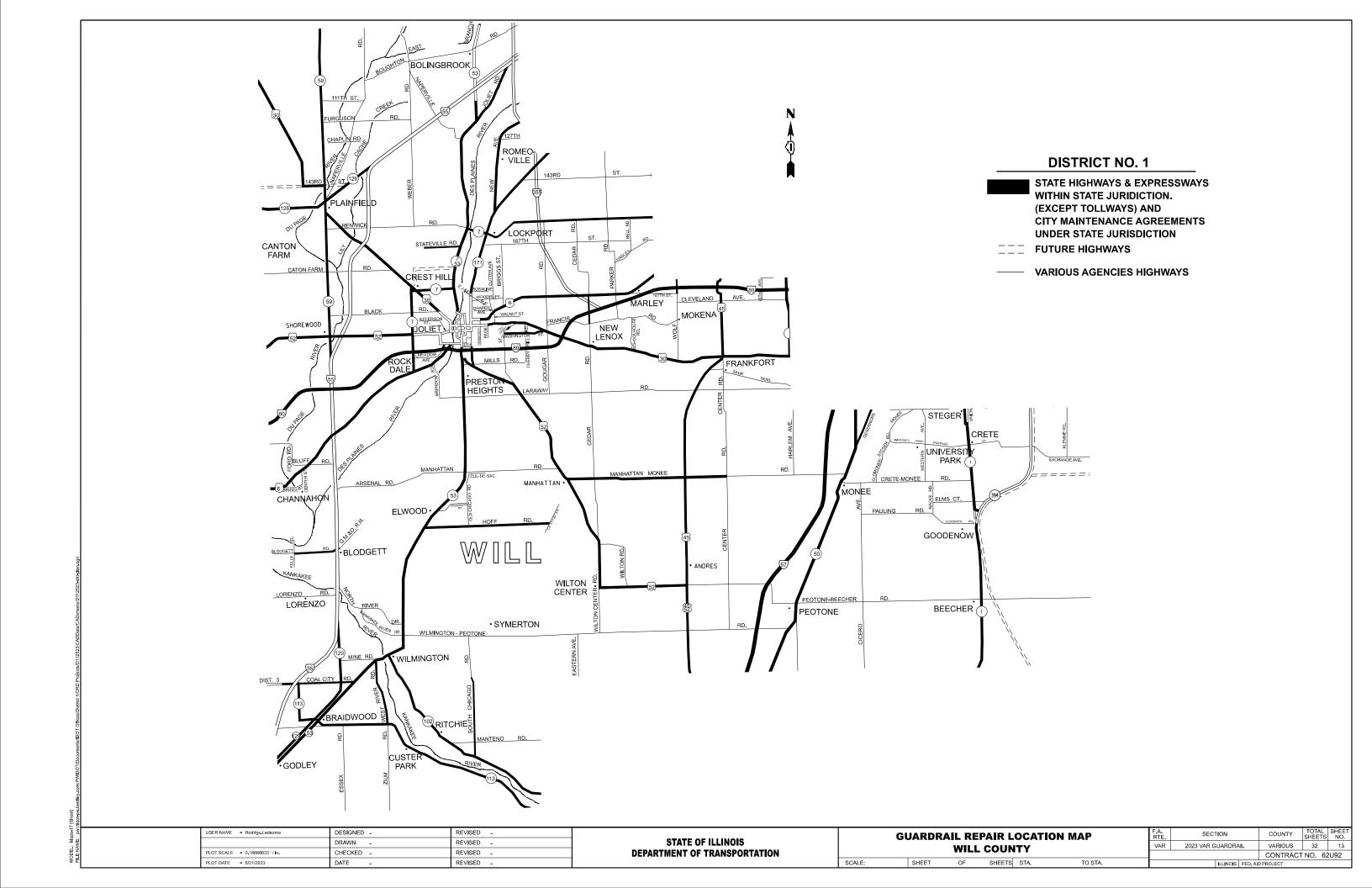
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

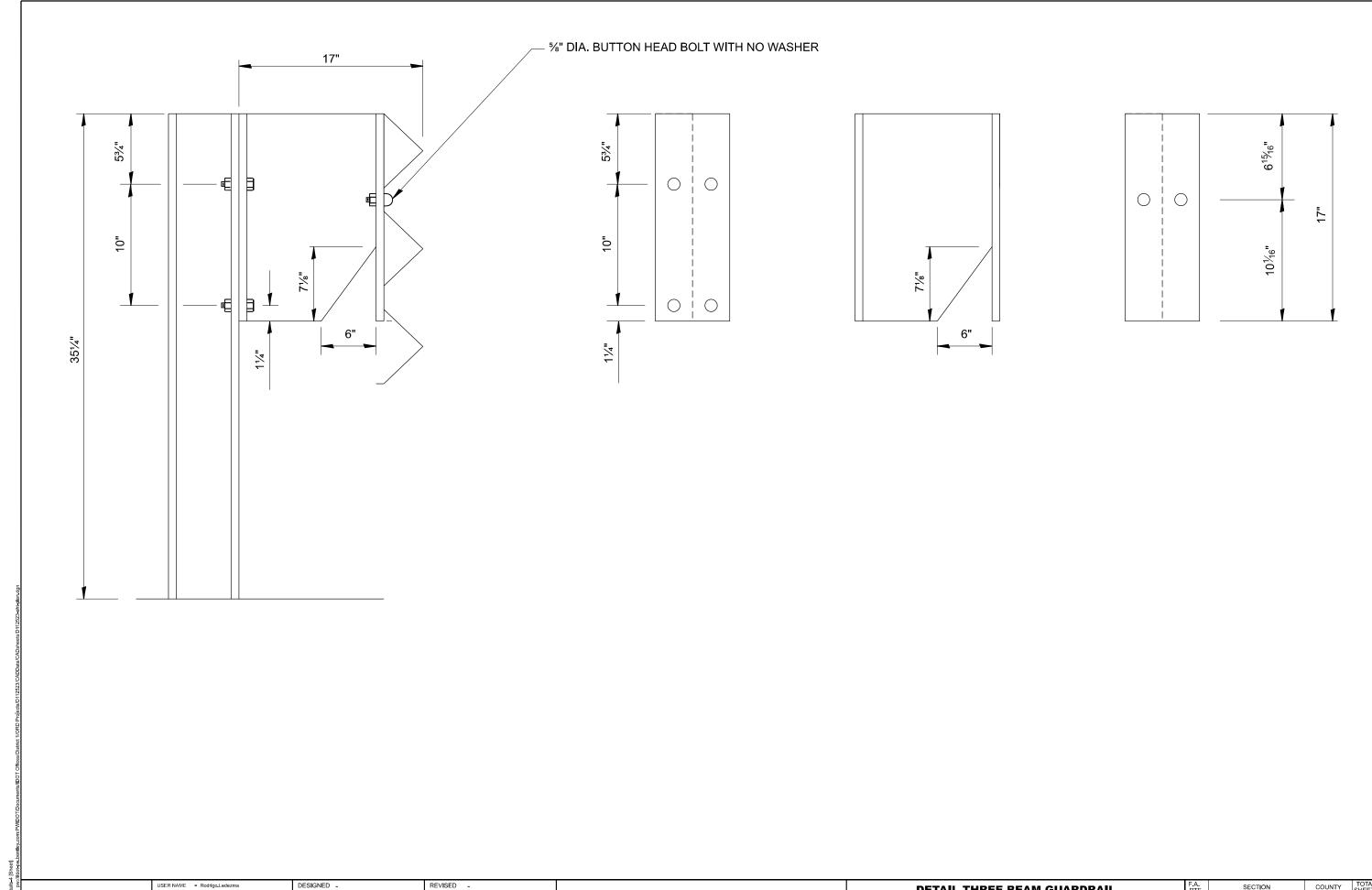
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GUARDRAIL REPAIR LOCATION MAP
SOUTH OF IL RTE 38

SHEET OF SHEETS STA. TO STA.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

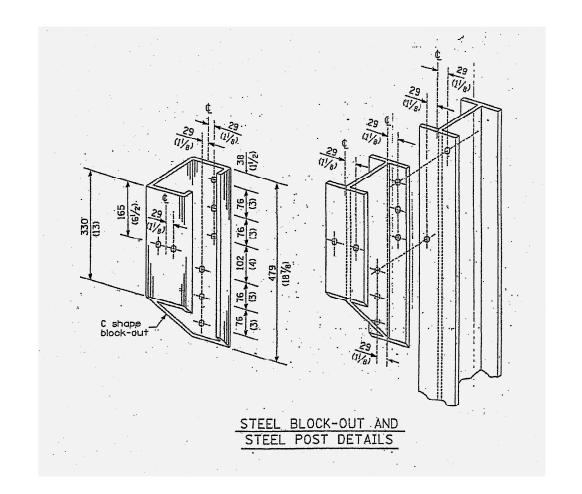
DETAIL THREE BEAM GUARDRAIL WITH MODIFIED OFFSET BLOCK OF SHEETS STA.

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COUNTY TOTAL SHEET NO.

VARIOUS 32 14 F.A. SECTION

VAR 2023 VAR GUARDRAIL CONTRACT NO. 62U92



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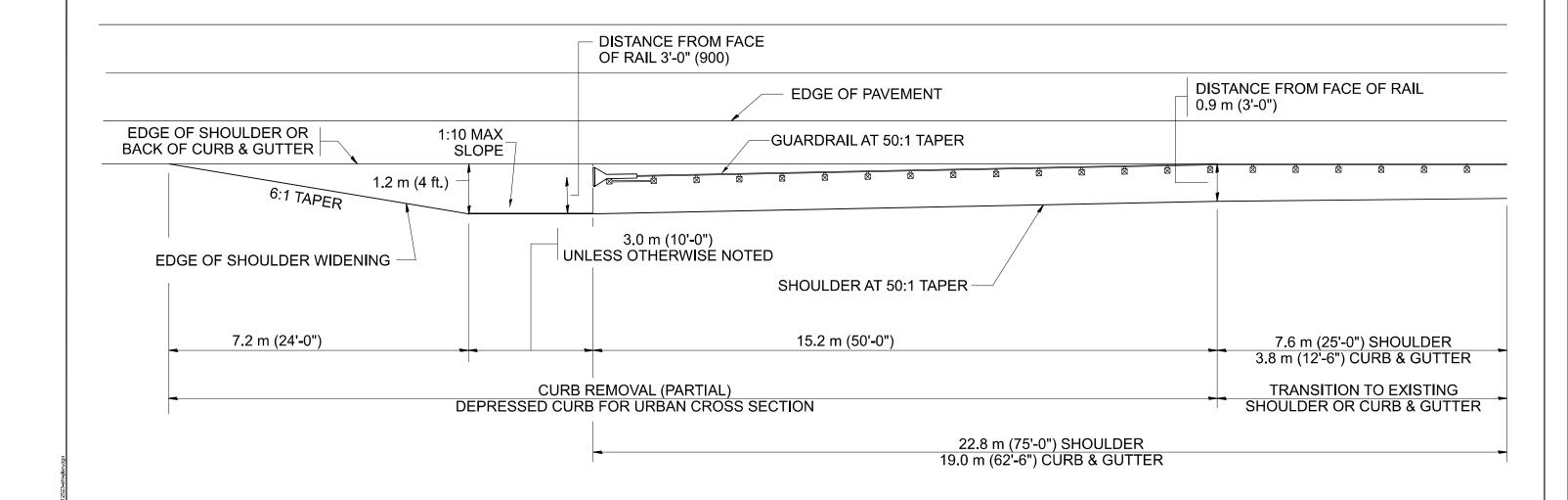
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

STEEL PLATE BEAM GUARDRAIL
STEEL BLOCK-OUT DETAIL

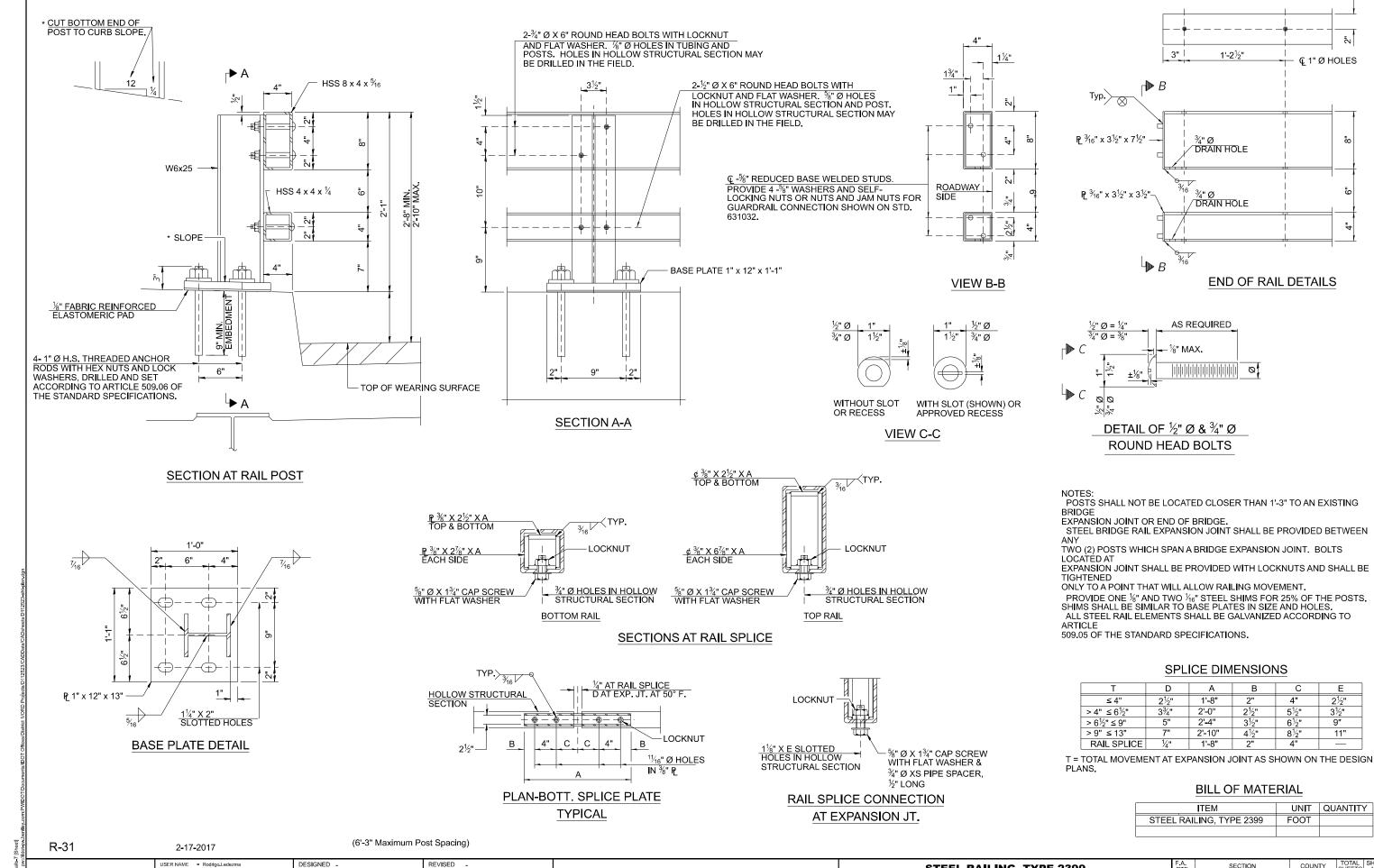
SHEET OF SHEETS STA. TO STA.



NOTES: THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

SHOULDER WIDENING SHALL BE IN ACCORDANCE WITH STATE STANDARD 630301

USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED -		CURB REMOVAL (PARTIAL) FOR		FOR	F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	SHEET			
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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SECTION

2023 VAR GUARDRAIL

VAR

TO STA.

STEEL RAILING, TYPE 2399

STRUCTURE NO.

SCALE:

SHEET

SHEETS STA.

COUNTY

VARIOUS 32

CONTRACT NO. 62U92

JSER NAME = Rodrigo.Ledezm

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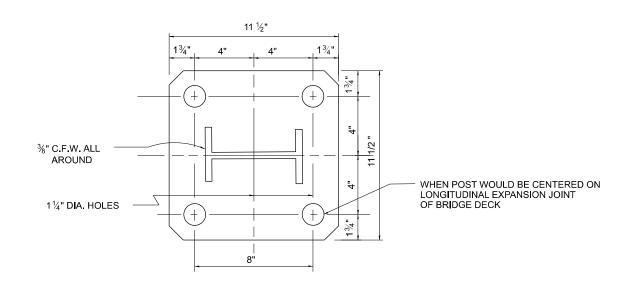
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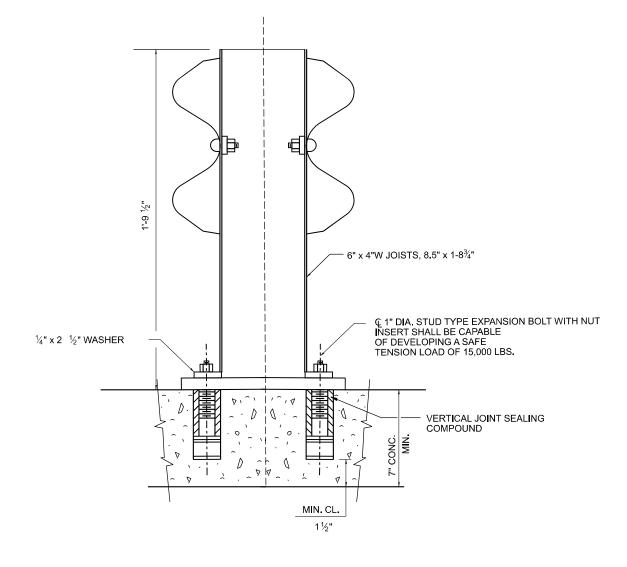
NOTE:

- FOR DETAILS OF RAIL ELEMENTS, RAIL SPLICING, NUT, BOLT AND SIDE VIEW OF RAIL, SEE STANDARD 2230-2.
- 2. ALL WELDS SHALL BE GROUND SMOOTH
- 3. POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POST WILL BE PLUMB WHEN ERECTED.
- 4. TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE, MINIMUM TEST LOAD=8 KIPS. IF ONE ANCHOR BOLT FAILS DURING THE TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT SHALL BE BOLT COMPANIES.
- 5. PROVIDE 11#8" AND 21#16" GALVANIZED SHIMS FOR 25% OF THE POSTS.



RAIL POST BASE ¢

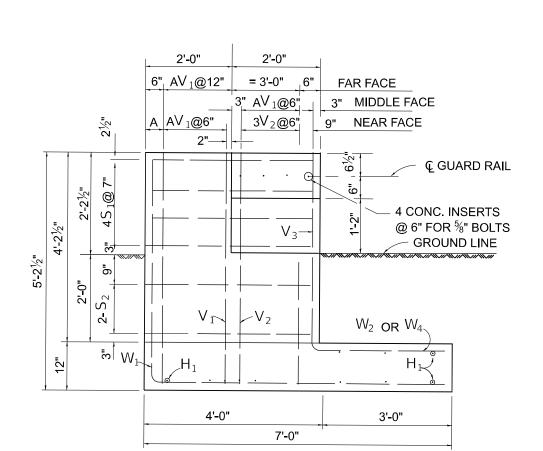
¢ 11 ½" x 1 ¼" x 11 ½"

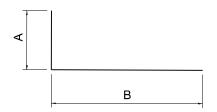


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

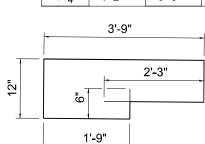
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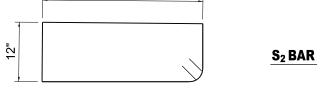


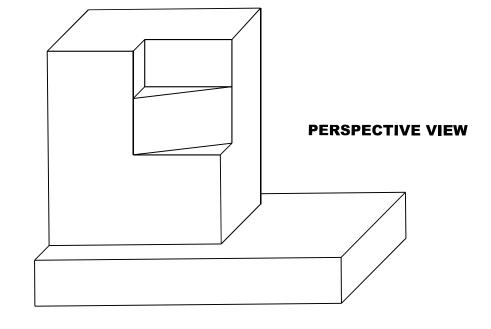


BAR	Α	В	A+B
V ₁	4'-8"	6"	5'-2"
V ₂	2'-6"	6"	3'-0"
W_1	4'-8"	6'-6"	11'-2"
W_2	2'-0"	3'-0"	5'-0"
W ₄	4'-2"	3'-0"	7'-2"



3'-9"



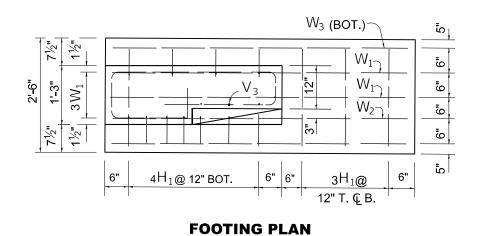


NOTES:

S₁ BAR

SCALE: NONE

CLASS X CONCRETE SHALL BE USED THROUGHOUT REINFORCEMENT TO BE SIZE #4 UNLESS OTHERWISE NOTED



ELEVATION

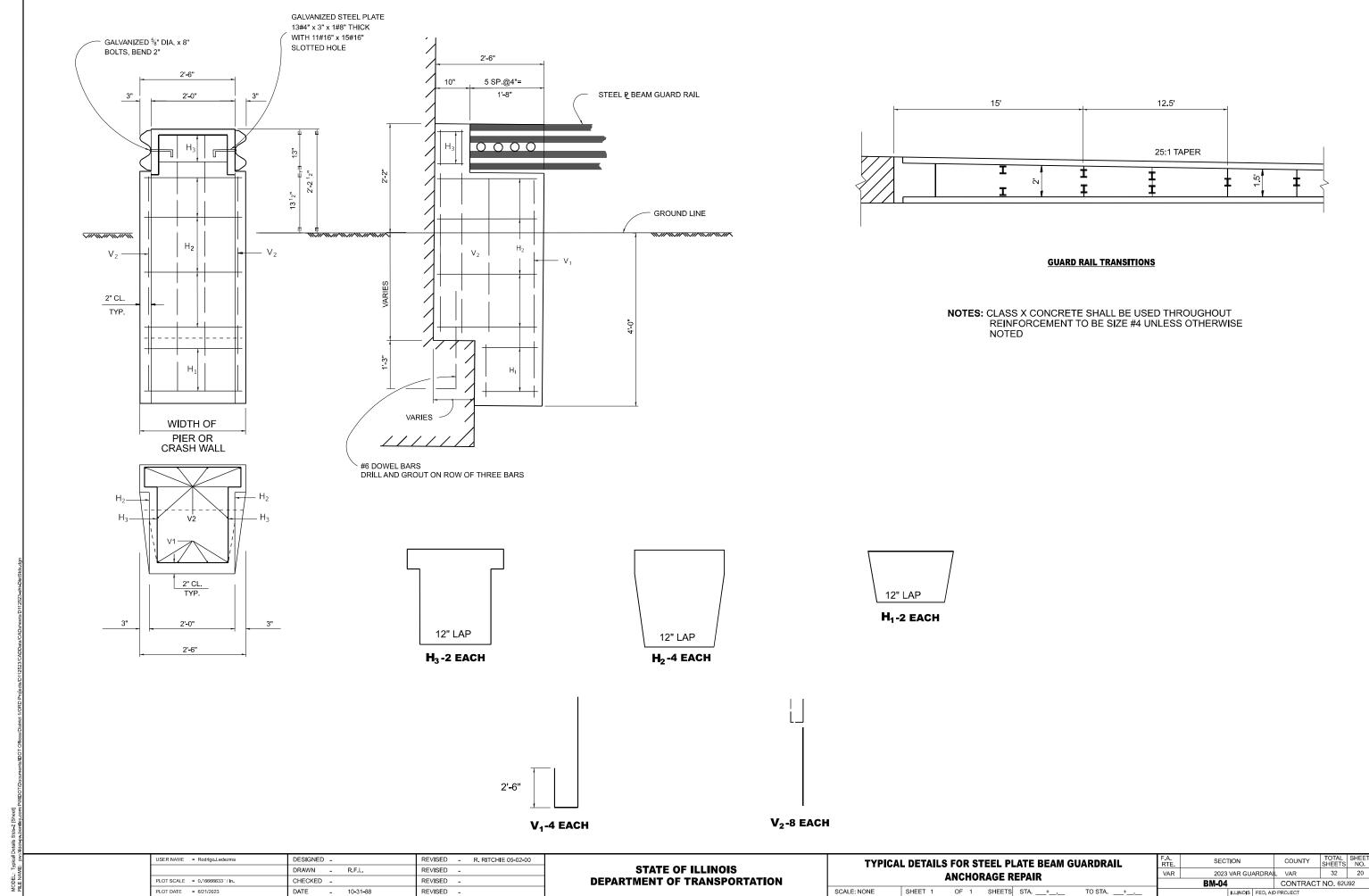
BAR	NO.	LENGTH
V ₁	8	5'-2"
V ₂	3	3'-0"
V ₃	4	3'-0"
W ₁	3	11'-2"
W ₂	1	5'-0"
W ₃	2	6'-6"
W_4	2	7'-2"
S ₁	4	10'-0"
S ₂	2	10-0"
H ₁	1	2'-3"
S ₁ S ₂	4	10'-0" 10-0"

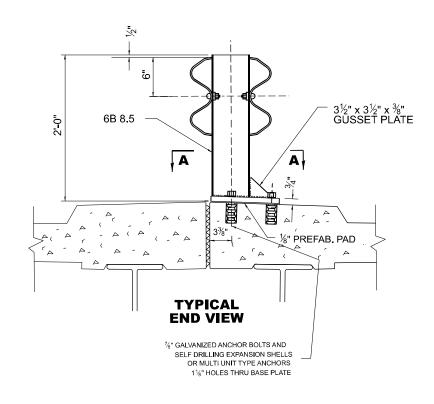
BAR SCHEDULE

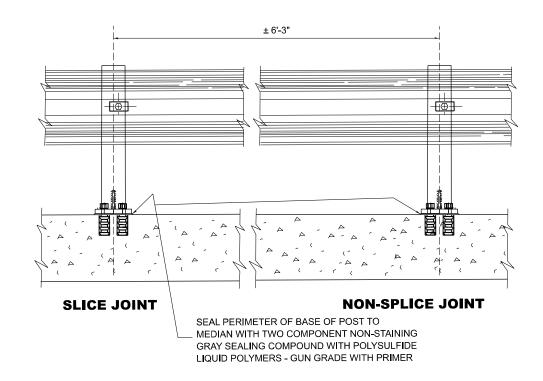
THIS SHEET IS FOR INFORMATION ONLY

USER NAME = Rodrigo.Ledezina	DESIGNED -	KEVISED -	-	R. RITCHIE 06-02-00
	DRAWN - R.F.L.	REVISED -	-	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	-	
PLOT DATE = 6/21/2023	DATE - 10-31-88	REVISED -	-	

TYPICAL DETAIL FOR	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GUARDRAIL ANCHOR BLOCK REPAIR	VAR	2023 VAR GUARDRA	L VAR	32	19
OUANDRAIL AROHOR BLOCK RELAIR		BM-03	CONTRACT	NO. 62U	92
SHEET 1 OF 1 SHEETS STA+ TO STA+		ILLINOIS FED. AIL	PROJECT		

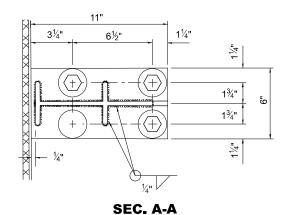






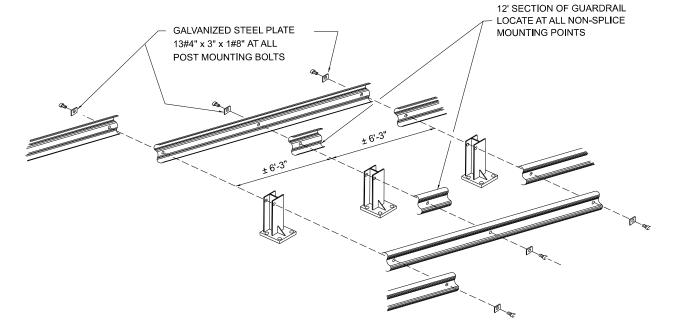
NOTE:

DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



NOTE:

- 1. POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.
- 2. TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.
- 3. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.
- 4. FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.
- 5. PROVIDE 1-1#8" AND 2-1#16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.
- 6. IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES.

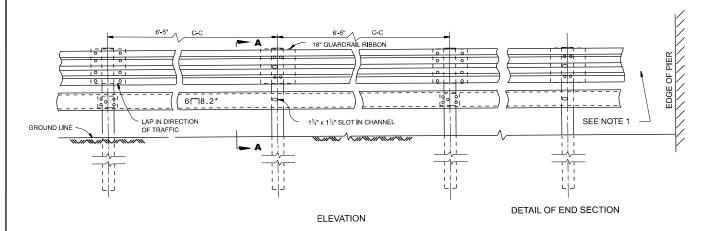


THIS SHEET IS FOR INFORMATION ONLY

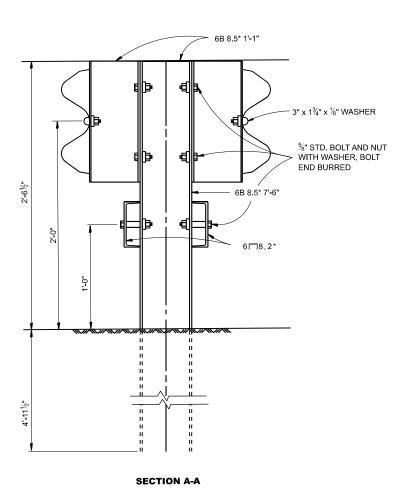
DESIGNED -REVISED - R. RITCHIE 05-02-00 JSER NAME = Rodrigo.Ledezm DRAWN -R.F.L. REVISED CHECKED -REVISED PLOT DATE = 6/21/2023 DATE REVISED -

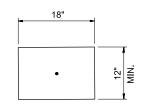
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT 2023 VAR GUARDRAIL VAR 32 21 **GUARDRAIL JOINT** CONTRACT NO. 62U92 SCALE: NONE SHEET 1 OF 1 SHEETS STA. __+_.



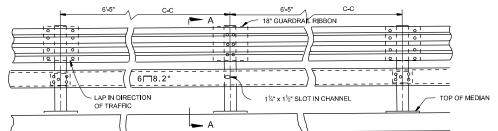
FOR DETAILS OF GUARDRAIL END ANCHORAGE AT PIERS, SEE SHEET NO. ____





18" GUARDRAIL ELEMENT SPLICE

FOR DETAIL OF RAIL ELEMENT, RAIL SPLICING, BOLT, AND NUT, SEE STATE STANDARD 2230.
A 13#8" x 3" x 1#8" STEEL PLATE WASHER AS SHOWN ON THIS DRAWING SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE GUARDRAIL RIBBON AT ALL MOUNTING POINTS. AN 18" PIECE OF GUARDRAIL RIBBON SHALL BE INSERTED BETWEEN THE CONTINUOUS RIBBON AND THE POST AT NON-SLICE MOUNTING POINTS.
RAIL, CHANNELS, POSTS, BASE PLATES, FASTENINGS, AND ALL OTHER EXPOSED ACCESSORIES SHALL BE



- 6B 8.5* x 1'-1"

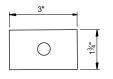
6B 8.5* x 2'-2¾"

6□8.2*

ELEVATION

CHANNEL SPLICE

PLATE 8¾" x 4½" x ¼"



WASHER PLATE 3" x 1f" x ""

SECTION A-A **ANCHORAGE DETAIL**

¼" x 2½" WASHER

NOTE:

 $3" \times 1\%" \times \%"$ WASHER

%" STD. BOLT AND NUT

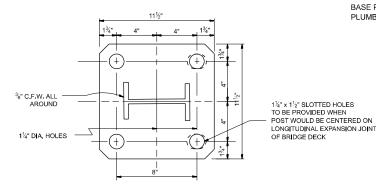
WITH WASHER, BOLT END BURRED

- GUARD RAIL CHANNEL

; 1° DIA. STUD TYPE EXPANSION BOLT WITH NUT INSERT SHALL BE CAPABLE OF DEVELOPING A SAFE TENSION LOAD OF 15,000 LBS.

VERTICAL JOINT SEALING COMPOUND

ALL WELDS SHALL BE GROUND SMOOTH. POSTS SHALL BE CUT AND WELDED TO THE BASE PLATE SO THAT THE POSTS WILL BE PLUMB WHEN ERECTED.



RAIL POST BASE PLATE LP 11½" x 1¼" x 11½"

SECTION B-B

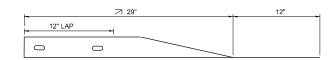
SCALE: NONE

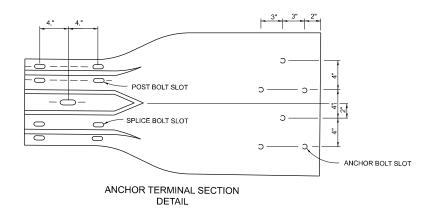
THIS SHEET IS FOR INFORMATION ONLY

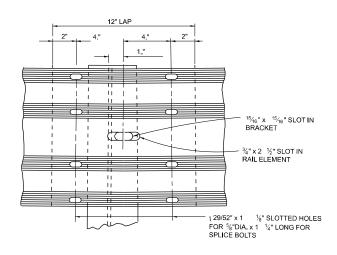
USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00
	DRAWN - R.F.L.	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/21/2023	DATE -	REVISED -

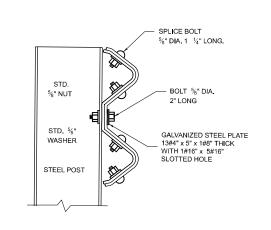
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

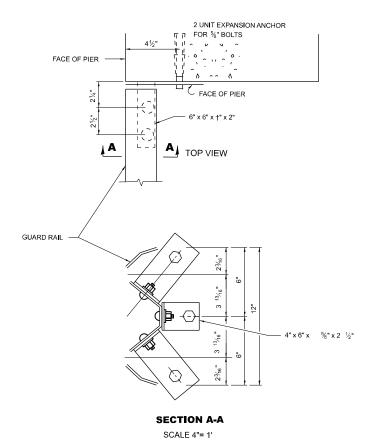
STEEL PLATE BEAM GUARDRAIL 2023 VAR GUARDRAIL VAR 32 22 **SPECIAL** CONTRACT NO. 62U92 SHEET 1 OF 1 SHEETS STA. __+_. TO STA.



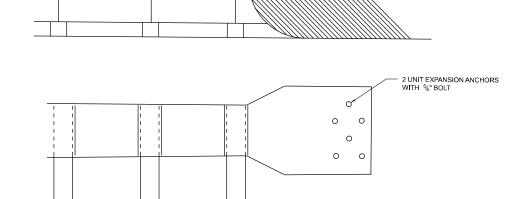








DETAIL OF CONNECTION OF GUARDRAIL
TO SQUARE BRIDGE PIER OR FOUNDATION.



CONCRETE PIER ABUTMENT OF FOOTING

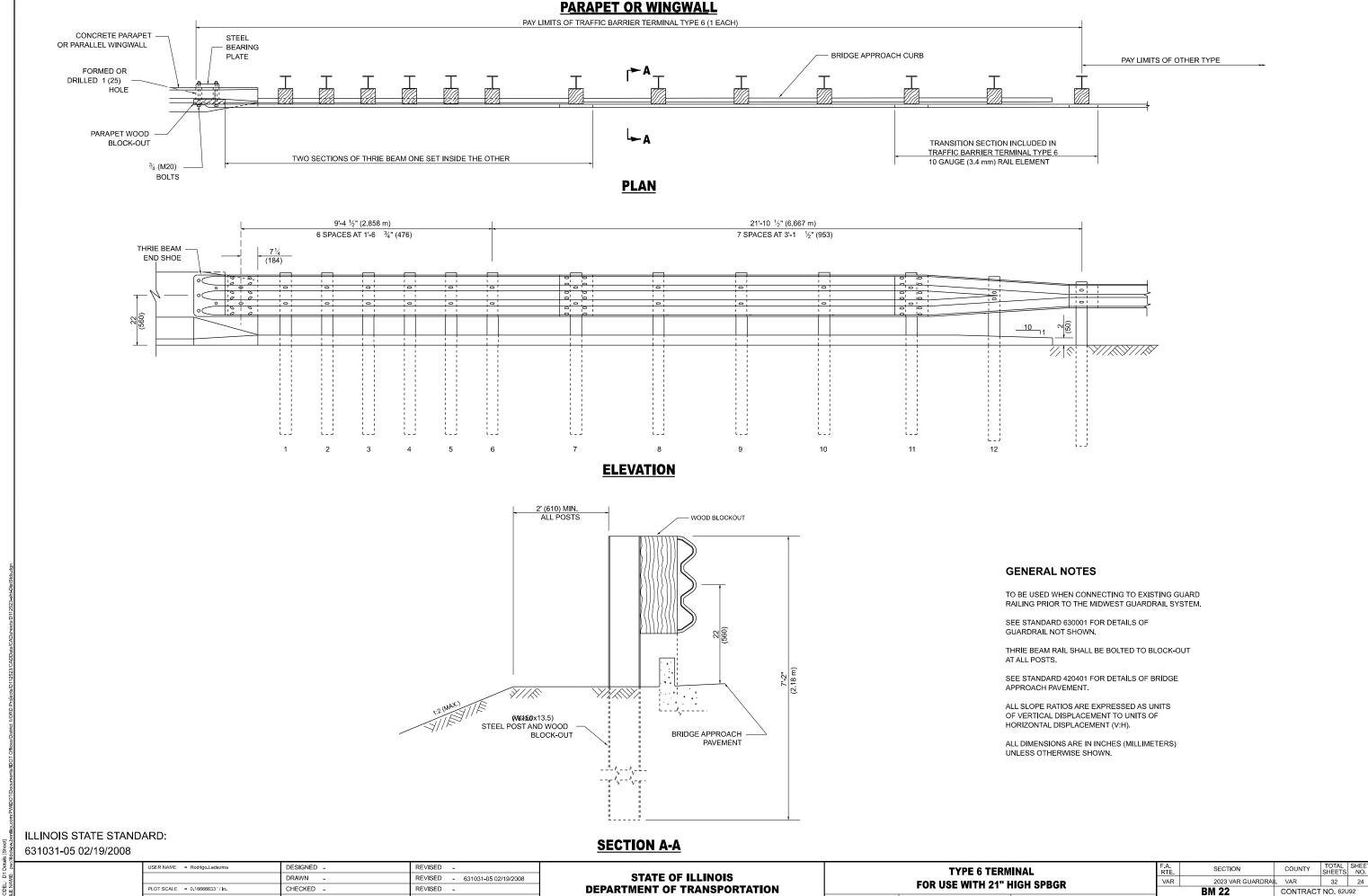
TYPICAL INSTALLATION

DETAIL OF CONNECTION OF GUARDRAIL
TO SQUARE BRIDGE PIER OR FOUNDATION.

POSTS 12'-3" C-C

THIS SHEET IS FOR INFORMATION ONLY

USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00		DETAIL OF GUARDRAIL SUPPORT			F.A. RTF	SECTION	COUNT	TOTAL	SHEET			
	DRAWN - R.F.L.	REVISED -	STATE OF ILLINOIS	AND END ANCHORAGE			VAR	2023 VAR GU/	ARDRAIL VAR	32	23			
PLOT SCALE = 0.16666633 '/in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	AND END ANCHURAGE				BM-07	CONTR	ACT NO. 621	U92			
PLOT DATE = 6/21/2023	DATE - 10-31-88	REVISED -		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA+	TO STA+		ILLINOIS	FED. AID PROJECT		-



SCALE: NONE

SHEET 1 OF 3 SHEETS STA. __+_.

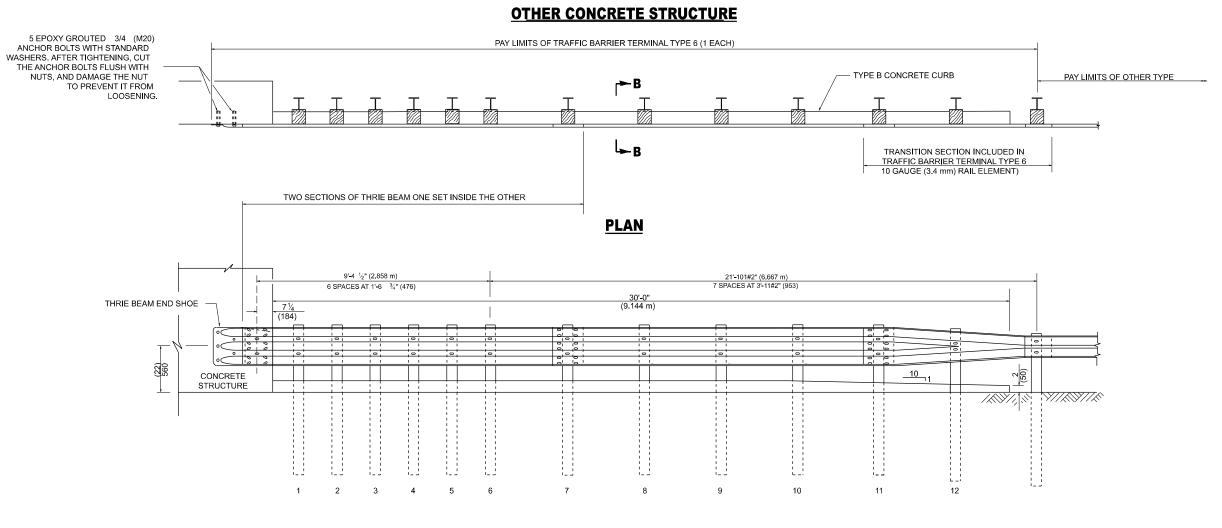
TO STA.

MODEL : D4 Dobile [Shoot]

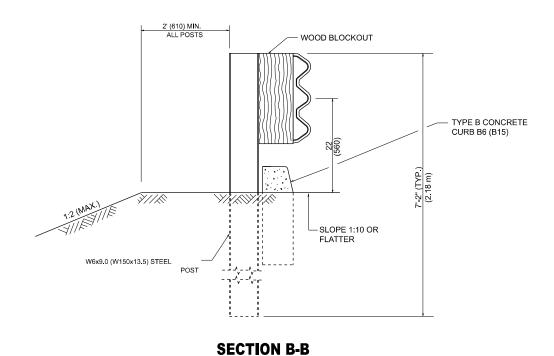
PLOT DATE = 6/21/2023

DATE

REVISED -



ELEVATION



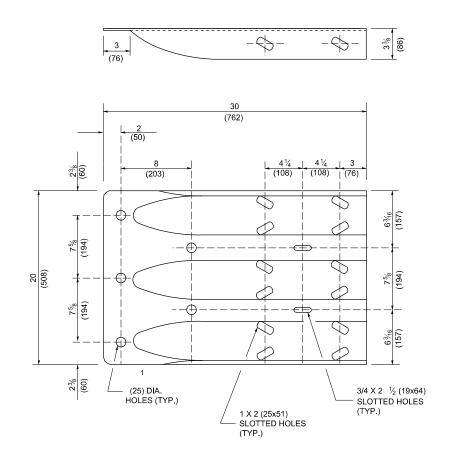
ILLINOIS STATE STANDARD: 631031-05 02/19/2008

USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED -
	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/21/2023	DATE -	REVISED -

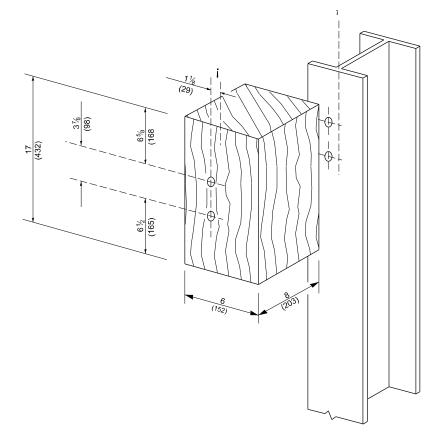
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR USE WITH 21" HIGH SPBGR Var 2023 VAR GUARDRA Var 32 25	TYPE 6 TERMINAL							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
SCALE: NONE SHEET 2 OF 3 SHEETS STA. + . TO STA. + . JULINOIS FED AID PROJECT		FOR USE WITH 21" HIGH SPRGR							VAR 2023 VAR GUARDRA		32	25			
		FOR USE WITH 21 HIGH SEDOR								BM 22 CONTRACT NO. 62U92					
								ILLINOIS FED. AII	PROJECT						

MODEL: D1 Details-1 (Sheet)



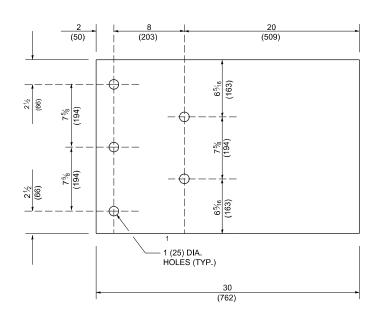
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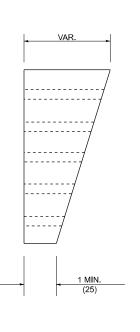


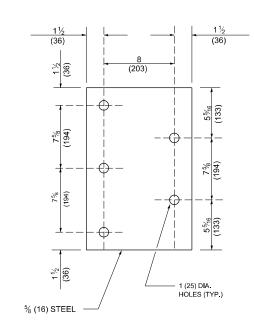
THRIE BEAM END SHOE DETAIL

POSTS 1-11 WOOD BLOCKOUT DETAIL

POST 12 WOOD BLOCKOUT DETAIL







PARAPET WOOD BLOCK-OUT DETAIL

PARAPET STEEL BEARING PLATE DETAIL

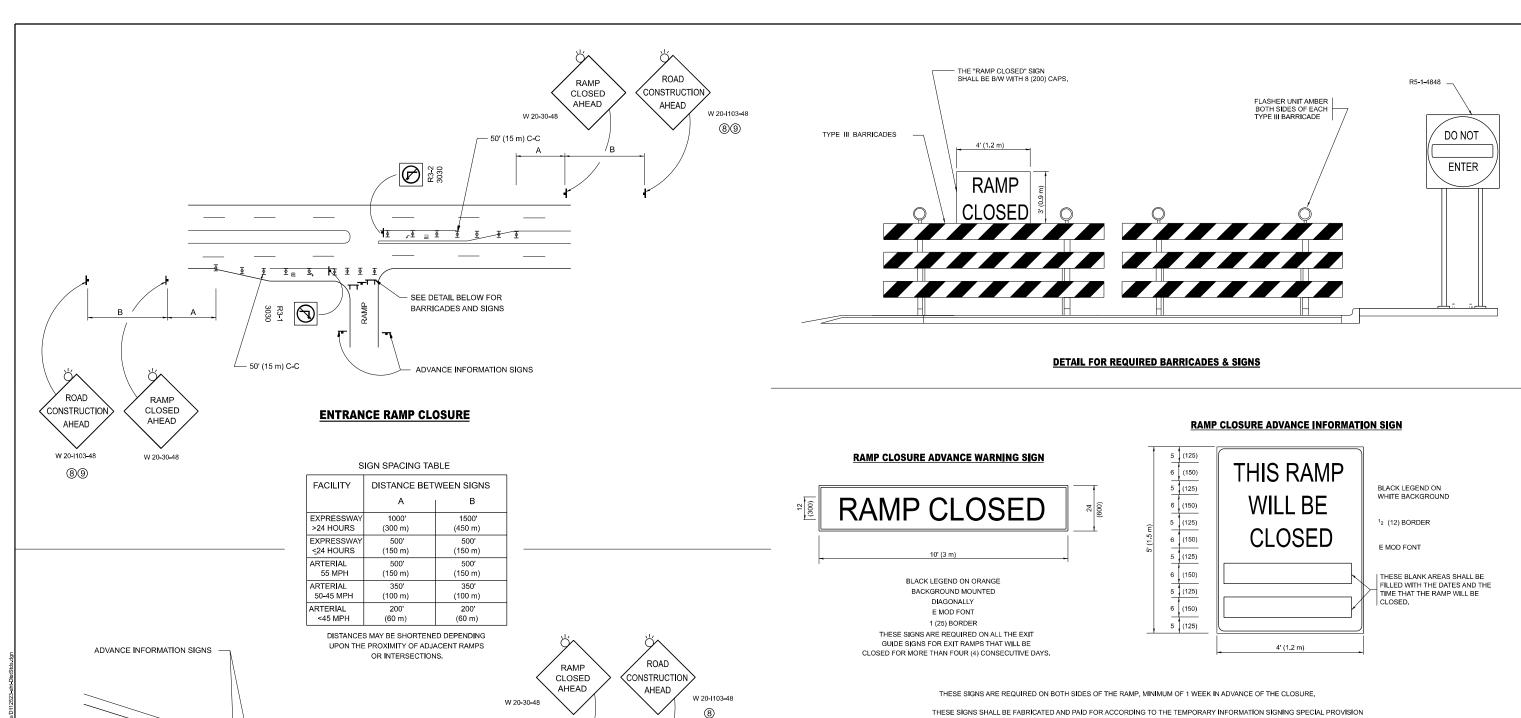
ILLINOIS STATE STANDARD: 631031-05 02/19/2008

OSER WANTE - Roungus Eddezina	DEGIGNED -	KLVIOLD -
	DRAWN -	REVISED - 631031-05 02/19/2008
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/21/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE 6 TERMINAL								F.A. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
	FOR USE WITH 21" HIGH SPBGR								VAR 2023 VAR GUARDRAIL V			L VAR	32	26
	FOR OSE WITH 21 HIGH SEDGR								BM 22	2		CONTRACT	NO. 62L	J92
SCALE: NONE	SHEET 3	OF 3	SHEETS	STA.	+	TO STA.	+			ILLINOIS	FED. AID	PROJECT		

//ildot-pw.beniley.com:PWIDOT/Documents/IDOT Offices/District 1/C



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

GENERAL NOTES:

- (1) 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.
- (5) 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			ENTR	ANCE AND EXIT RAMP		F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED - S.P.B12-09	STATE OF ILLINOIS			CLOSURE DETAILS		VAR	2023 VAR GUARDRA	L VAR	32	27
PLOT SCALE = 0.16666633 '/in.	CHECKED -	REVISED - M.D06-13	DEPARTMENT OF TRANSPORTATION			LOSURE DETAILS			TC-08	CONTRACT	T NO. 62U	Э2
PLOT DATE = 6/21/2023	DATE - 02-83	REVISED - M.D01-18		SCALE: NONE	SHEET 1	OF 1 SHEETS STA. +	TO STA. + .			PROJECT		

SYMBOLS

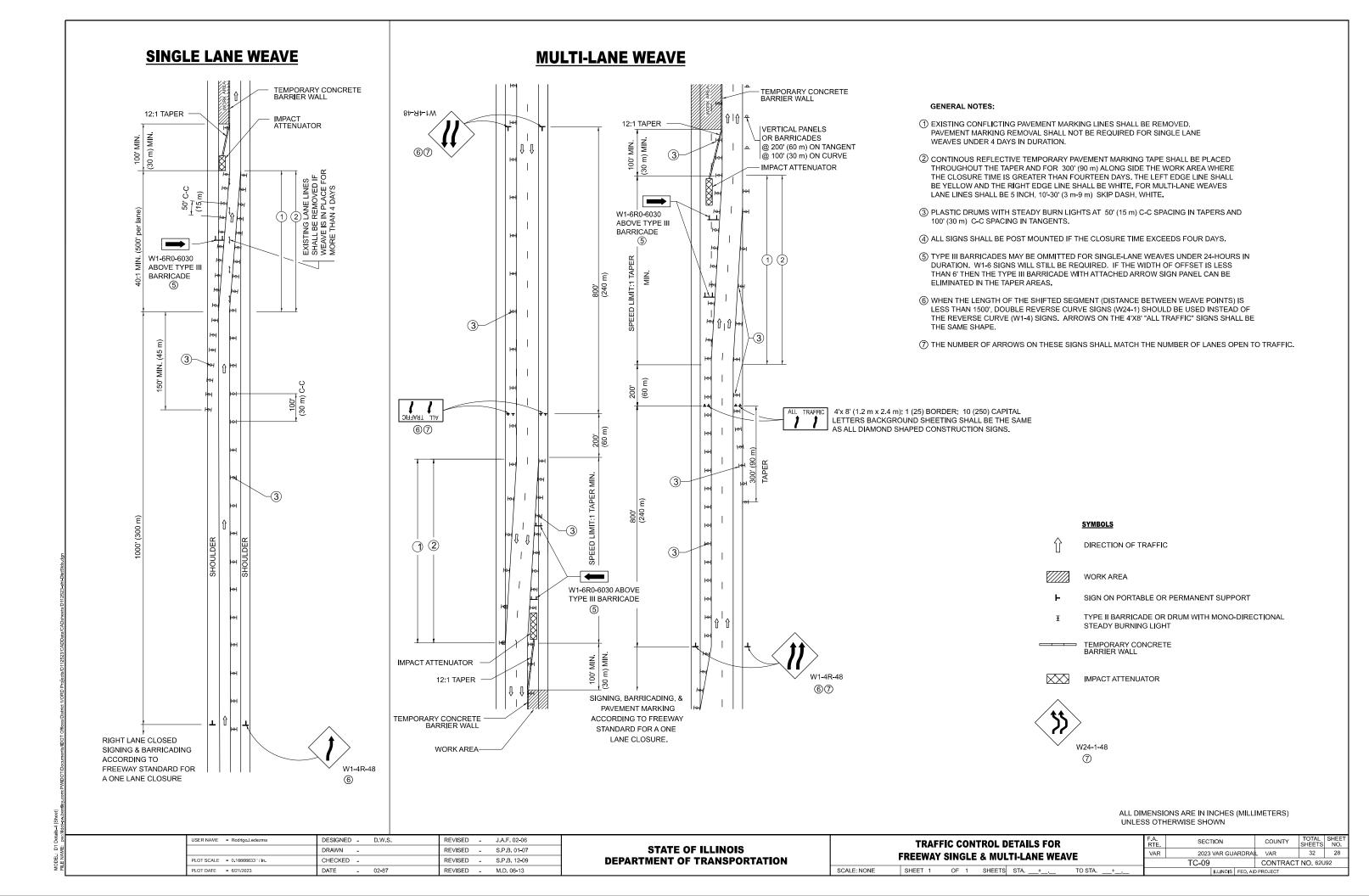
TYPE II BARRICADE OR DRUM

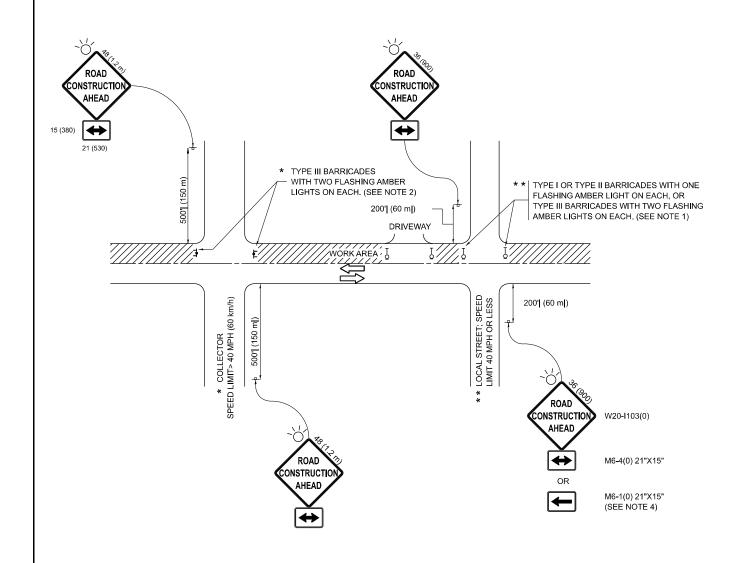
TYPE III BARRICADE WITH 2 FLASHING LIGHTS

SEE DETAIL BELOW FOR BARRICADES AND SIGNS

EXIT RAMP CLOSURE

10' (3 m) C-C





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.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY 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
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE:

- 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.
- 7. 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 = 0.16666633 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 6/21/2023	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

| SHEET OF SHEETS STA. __+_. TO STA.

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

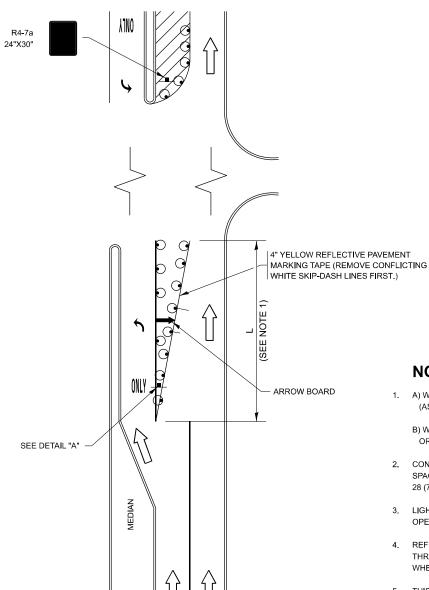


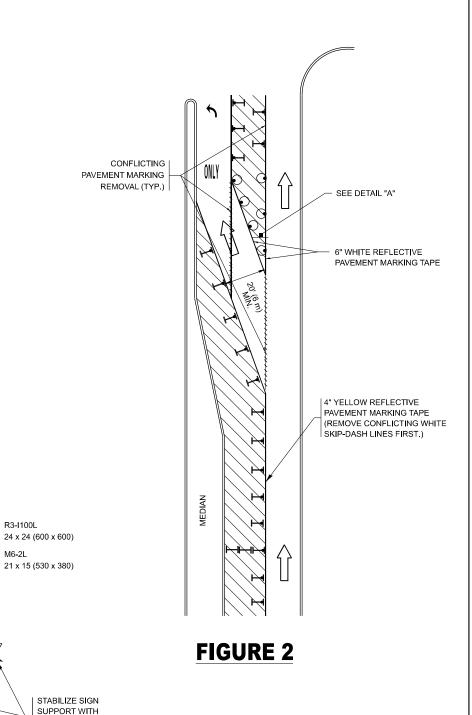
FIGURE 1

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.
- 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 PREQUIREMENTS.
- 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

R3-I100L

M6-2L

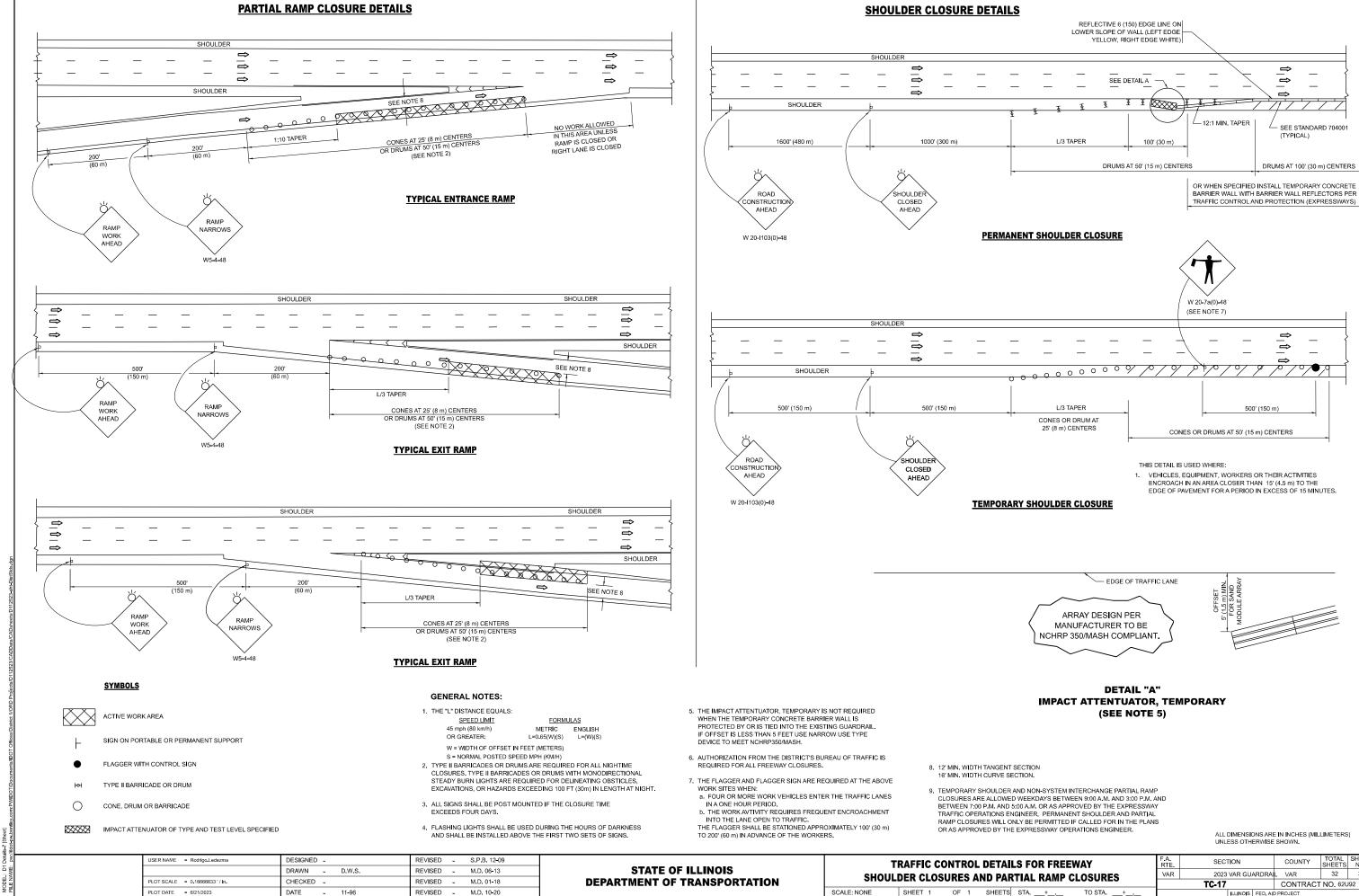
All dimensions are in inches (millimeters) unless otherwise shown.

JSER NAME = Rodrigo.Ledezma DESIGNED - T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09 DRAWN - A. HOUSEH 11-07-95 REVISED - A. SCHUFTZF 07-01-13 CHECKED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 PLOT DATE = 6/21/2023 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) SHEET 1 OF 1 SHEETS STA. __+_. TO STA.

SANDBAGS AS

SECTION VAR 2023 VAR GUARDRAIL VAR 32 TC-14 CONTRACT NO. 62U92



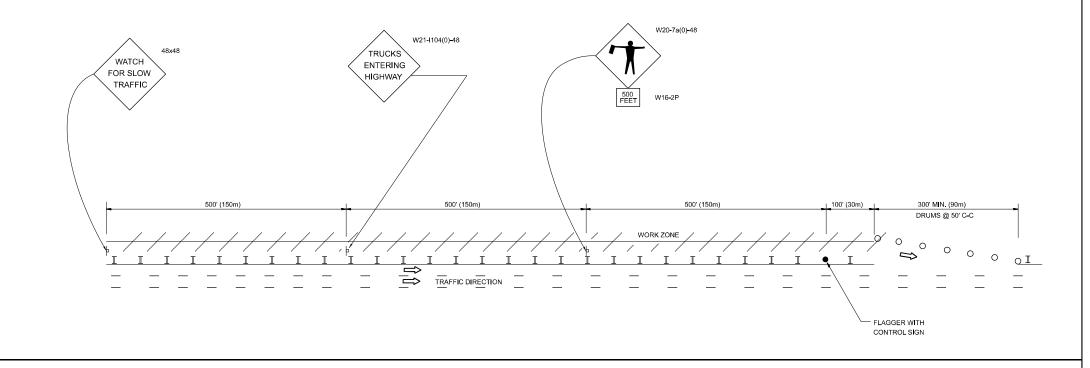
DATE

REVISED -

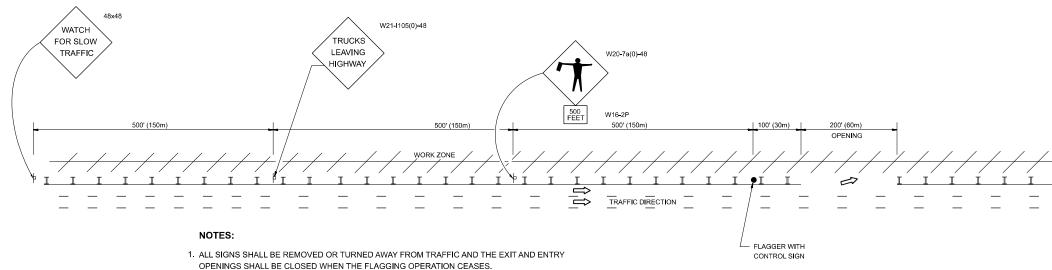
M.D. 10-20

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 = 0.16666633 ' / in.	CHECKED -	REVISED	-	S.P.B. 12-09
PLOT DATE = 6/21/2023	DATE -	REVISED	_	M.D.06-13

FREEWAY / I AT WORK								-
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	+	TO STA.	+ .	\Box

F.A.					TOTAL	SHEE		
RTE	SEC ⁻	TION		COUNTY	SHEETS			
VAR	2023	VAR GU	ARDRAI	L VAR	32	32		
	TC-18		CONTRACT NO. 62U92					
		ILLINOIS	PROJECT					