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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

RTE. SECTION

VAR. 2022 GUARDRAIL 01 VARIOUS ILLINOIS CONTRACT NO. 62790

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE: VARIOUS EXPRESSWAYS AND ARTERIAL HIGHWAYS - DISTRICT ONE SECTION: 2022 GUARDRAIL 01 **GUARDRAIL REPAIRS VARIOUS COUNTIES** C-91-314-22

> **SEE LOCATION MAPS** SHEETS 5 THRU 13

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

J.U.L.I.E. 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. 62T90

FED. ROAD DIST. NO.

D-91-261-22

THIS SECTION IS LOCATED ALONG VARIOUS ROUTES WITHIN COOK, KANE, DUPAGE, LAKE, MCHENRY AND WILL COUNTIES.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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31	14) TRAFFIC CONTROL DETAIL FOR SHOULDER CLOSURE AND PARTIAL RAMP CLOSURES (TC-17)	782006 - 01	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS
32	SIGNING FOR FLAGGING OPERATIONS AT WORK		

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.
- 4. NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- 5. 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.

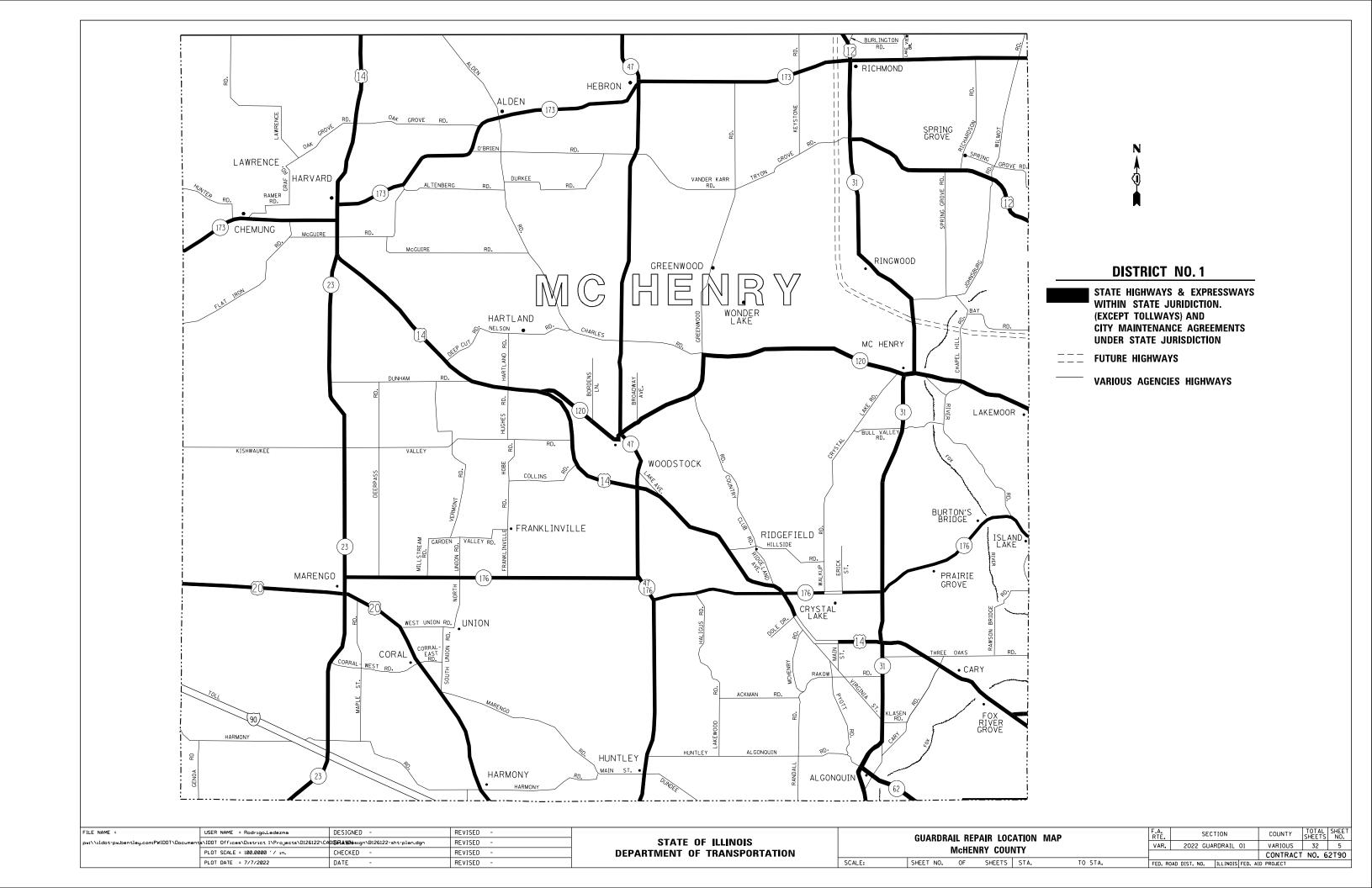
 NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- 8. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
- 9. THE CONTRACTOR SHALL TELEPHONE THE IDOT BUREAU OF TRAFFIC OPERATIONS, ELECTRICAL MAINTENANCE SECTION AT 708-524-2145 TO REQUEST THE LOCATE 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

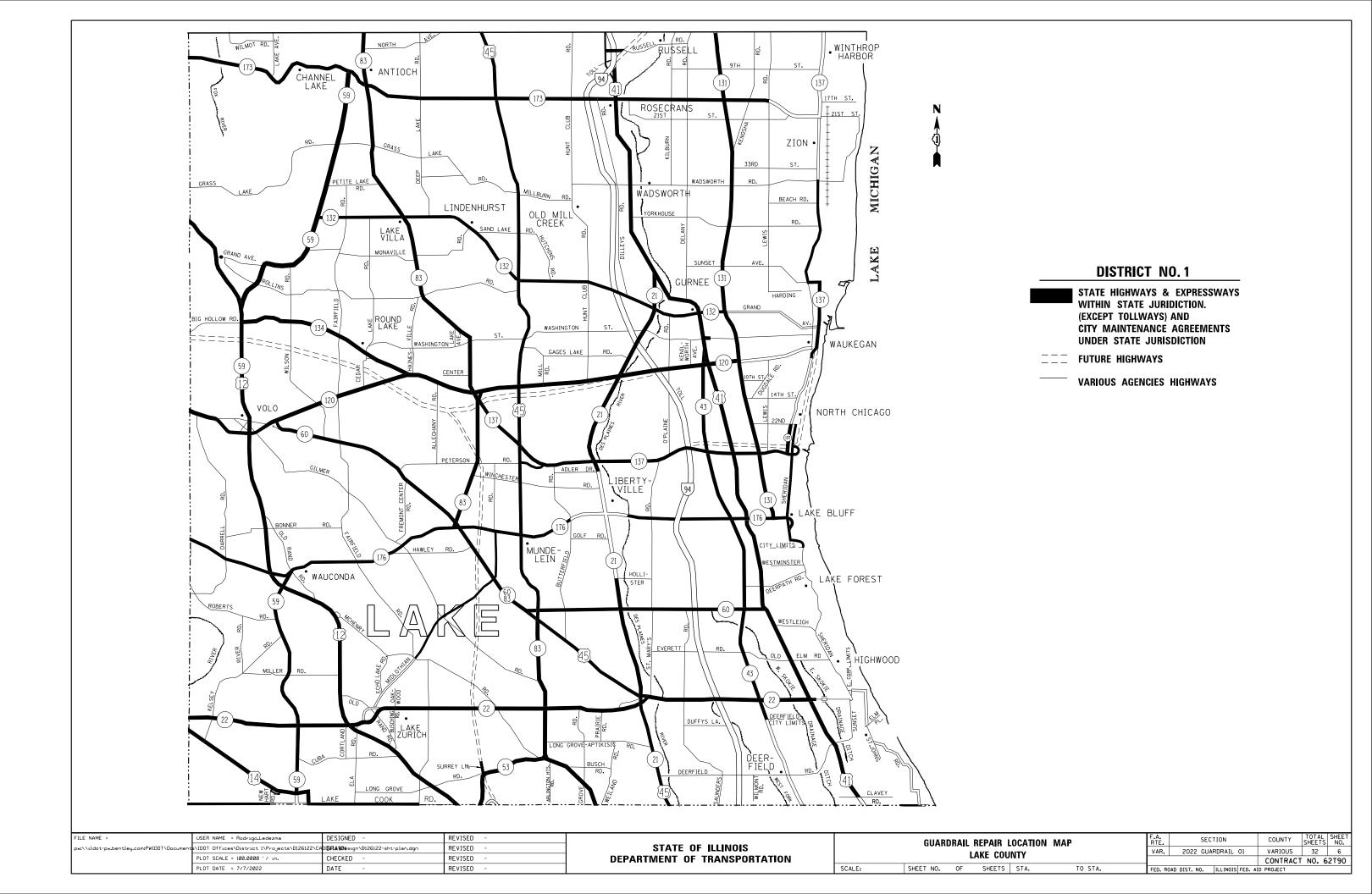
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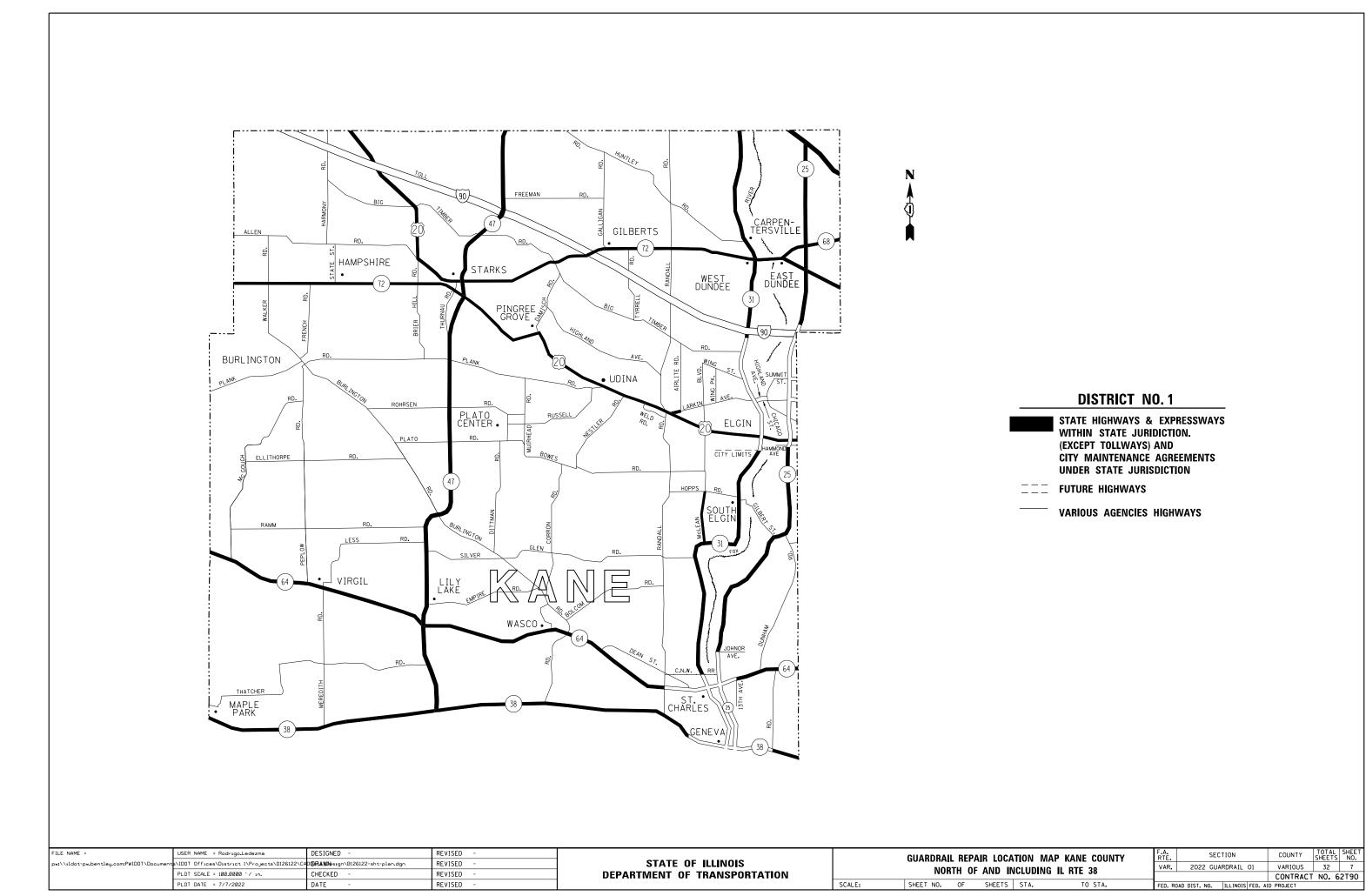
ZONEOPENINGS (TC-18)

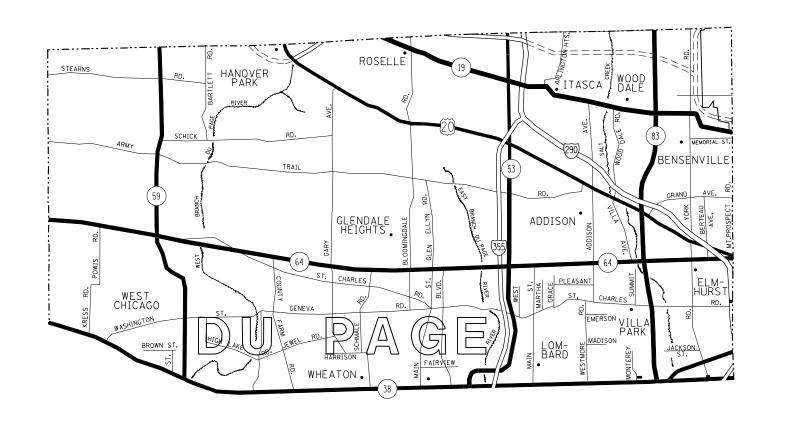
SUMMARY OF QUANTITIES				CONSTRUCTION TY	YPE CODE			SUMMARY OF QUANTITIES				CO	NSTRUCTIO	N TYPE CO	DE	
CODE NO ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021			CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	100% STATE 0021	100% STATE MCHD 0021				
63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6	FOOT	386	309	77			X4402302	CURB REMOVAL (PARTIAL)	FOOT	149	119	30				
FOOT POSTS																
							X6300210	GUARDRAIL BLOCKS	EACH	1631	1305	326				
* 63100041 TRAFFIC BARRIER TERMINAL, TYPE 1B	EACH	3	2	1												
							X6300215	RAIL ELEMENT PLATES	EACH	2078	1662	416				
* 63100045 TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	11	9	2												
							X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	2078	1662	416				
* 63100070 TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	3	2	1												
							X6300222	CONNECTING END SECTION	EACH	111	89	22				
* 63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	5	1						_	_					
* 63100167 TRAFFIC BARRIER TERMINAL, TYPE 1	FACIL	62	50	12			X6300224	RETURN END SECTION	EACH	3	2	1				
(SPECIAL) TANGENT	EACH	62	50	12			X6300225	SINGLE END SECTION	EACH	17	14	3				
(STEETHE) PARTEENT								5.00.00								
* 63100169 TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	10	8	2			X6300230	STEEL POSTS	EACH	1262	1010	252				
(SPECIAL) FLARED																
							X6300310	REMOVE AND REPLACE GUARDRAIL CHANNEL	EACH	66	53	13				
* 72501000 TERMINAL MARKER - DIRECT APPLIED	EACH	506	405	101												
							X6300610	THRIE BEAM GUARDRAIL ELEMENT PLATES	EACH	7	6	1				
* 78200005 GUARDRAIL REFLECTORS, TYPE A	EACH	23	18	5												
14		- 22	0.5.0				X6300620	THRIE-BEAM MODIFIED BLOCKS	EACH	7	6	1				
* X0321563 REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL	EACH	322	258	64			X6300630	THRIE-BEAM POSTS	EACH	7	6	1				
1 SI ECIAL							X0300030	THATE-BEAM TOSTS	LACIT	,	0	1				
X2300001 MISSING OR FAILED ANCHOR CABLES	EACH	16	13	3			X6300640	THRIE BEAM RADIUS ELEMENT PLATES	EACH	4	3	1				
X2300002 MISSING OR FAILED LAG BOLTS	EACH	16	13	3		*	X6310163	TRAFFIC BARRIER TERMINAL, TYPE 1, NOSE	E EACH	10	8	2				
X2300019 REATTACHING AND REALIGNING TERMINALS	EACH	32	26	6		*	X6310177	TRAFFIC BARRIER TERMINAL, TYPE 3	EACH	4	3	1				
AND RAIL ELEMENT PLATES								(SPECIAL)								
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	SUMMARY OF QUANTITIES				CON	TRUCTION TYPE CO	DE	SUMMARY 0	F QUANTITIES				CC	NSTRUCTIO	N TYPE CODE		
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(6310203	TRAFFIC BARRIER TERMINAL, TYPE 3	EACH	3	2	1			* Z0052600 REPAIR TRAFFIC	BARRIER TERMINAL, TYPE	EACH	35	28	7				
	SPECIAL, NOSE							2									
X6330800	GUARDRAIL POST VERTICAL ADJUSTMENT	EACH	23	18	5			* Z0052900 REPAIR TRAFFIC I	BARRIER TERMINAL, TYPE	EACH	4	3	1				
								4									
X6331105	STEEL POSTS, MODIFIED	EACH	29	23	6			★ Z0053000 REPAIR TRAFFIC I	BARRIER TERMINAL TYPE	EACH	4	3	1				
X6331110	STEEL POSTS, SPECIAL	EACH	18	14	4			5	PAINTEN TENTINAL, TITLE	LACIT	7		1				
Z0007124	STEEL RAILING (SPECIAL)	FOOT	55	44	11			* Z0053200 REPAIR TRAFFIC I	BARRIER TERMINAL, TYPE	EACH	5	4	1				
								6									
	REPAIR TRAFFIC BARRIER TERMINAL TYPE	EACH	9	7	2												
	3 SPECIAL							* Z0059660 REPAIR TRAFFIC I		EACH	117	94	23				
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE	EACH	405	324	81												
	1 SPECIAL - POST							Z0078000 WOOD RAIL		FOOT	360	288	72				
Z0051400	REMOVING AND RESETTING POSTS	EACH	75	60	15												
Z0052100	REPAIR STEEL PLATE BEAM GUARDRAIL,	FOOT	170	136	34												
	TYPE B																
Z0052200	REPAIR STEEL PLATE BEAM GUARDRAIL,	FOOT	75	60	15												
	TYPE C																
Z0052400	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	9	7	2												_
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<u>Z</u> 0052550	REPAIR TRAFFIC BARRIER TERMINAL, TYPE	EACH	3	2	1												
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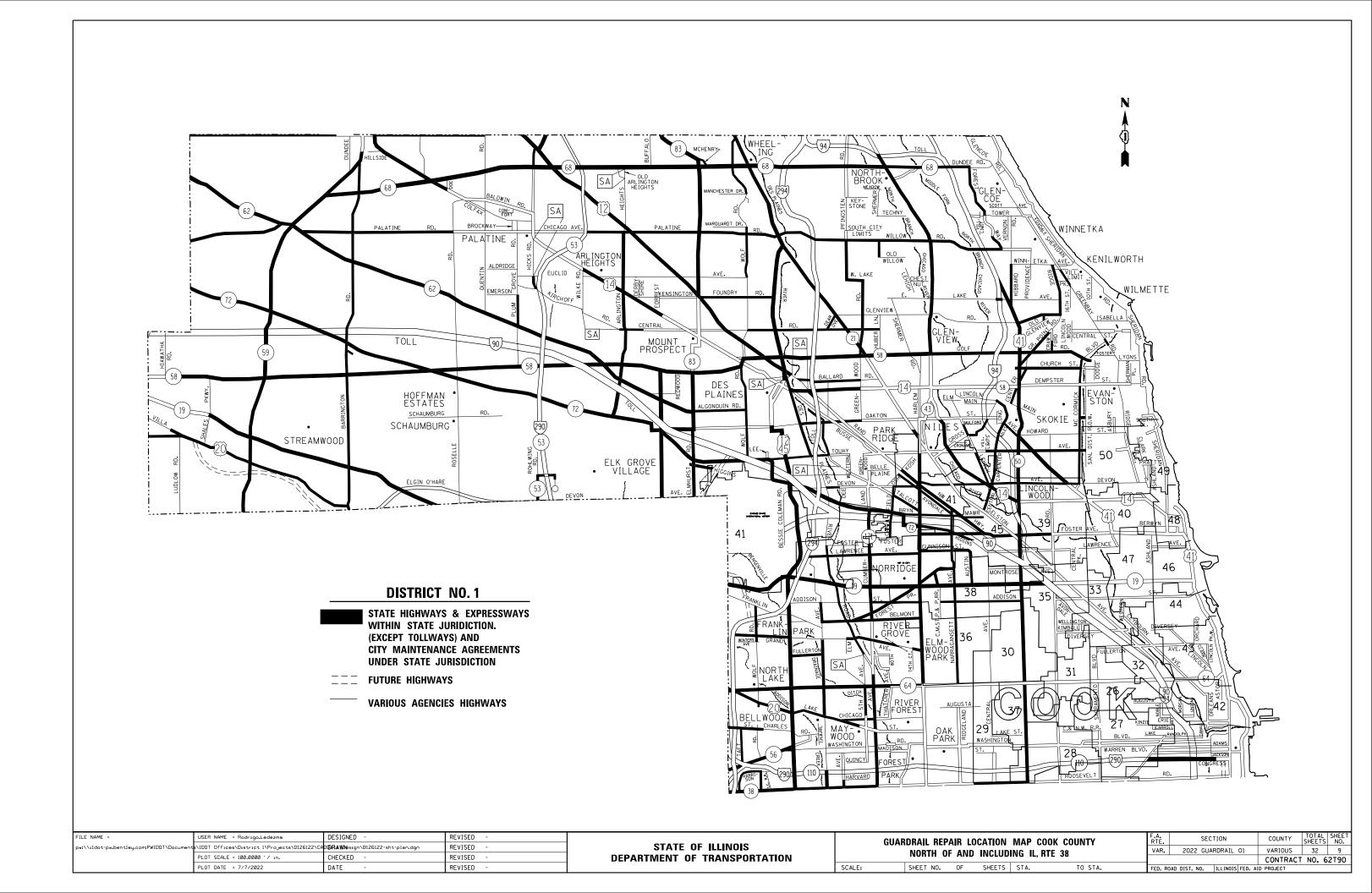


STATE HIGHWAYS & EXPRESSWAYS WITHIN STATE JURIDICTION.
(EXCEPT TOLLWAYS) AND CITY MAINTENANCE AGREEMENTS UNDER STATE JURISDICTION

___ FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

FILE NAME =	USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED -		CII	ARDRAIL REPAIR LOCATION MAP DuPAGE COUNTY	F.A. SECTION	COUNTY TOTAL SHEET SHEETS NO.
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	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. A	AID PROJECT





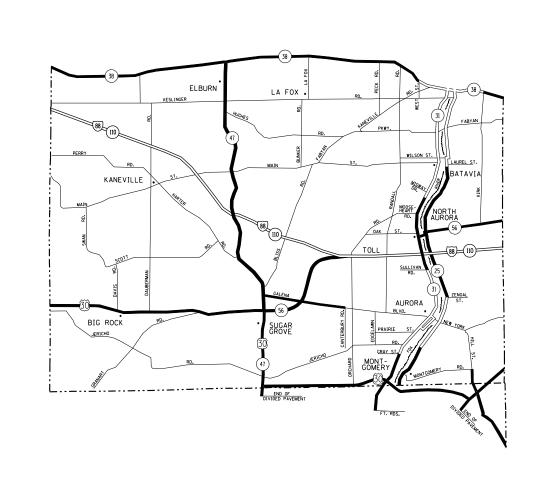
DISTRICT NO. 1

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

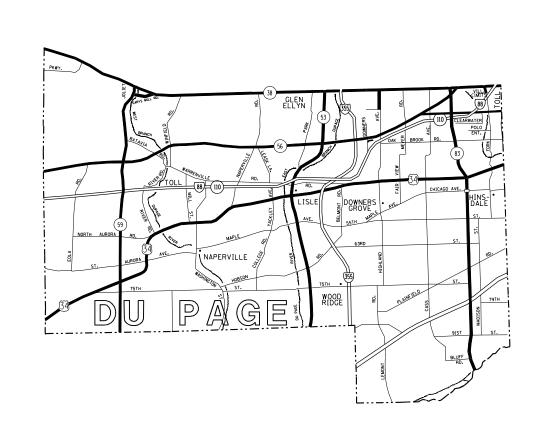
___ FUTURE HIGHWAYS

VARIOUS AGENCIES HIGHWAYS

F.A. SECTION COUNTY SHEETS NO.

VAR. 2022 GUARDRAIL 01 VARIOUS 32 11

CONTRACT NO. 62T90 DESIGNED -REVISED **GUARDRAIL REPAIR LOCATION MAP KANE COUNTY** STATE OF ILLINOIS \IDOT Offices\District 1\Projects\D126122\CAD**@RAWN**sign\B126122-sht-plan.dgn REVISED SOUTH OF IL RTE 38 **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED PLOT DATE = 7/7/2022 DATE REVISED SCALE: SHEET NO. OF SHEETS STA. TO STA.





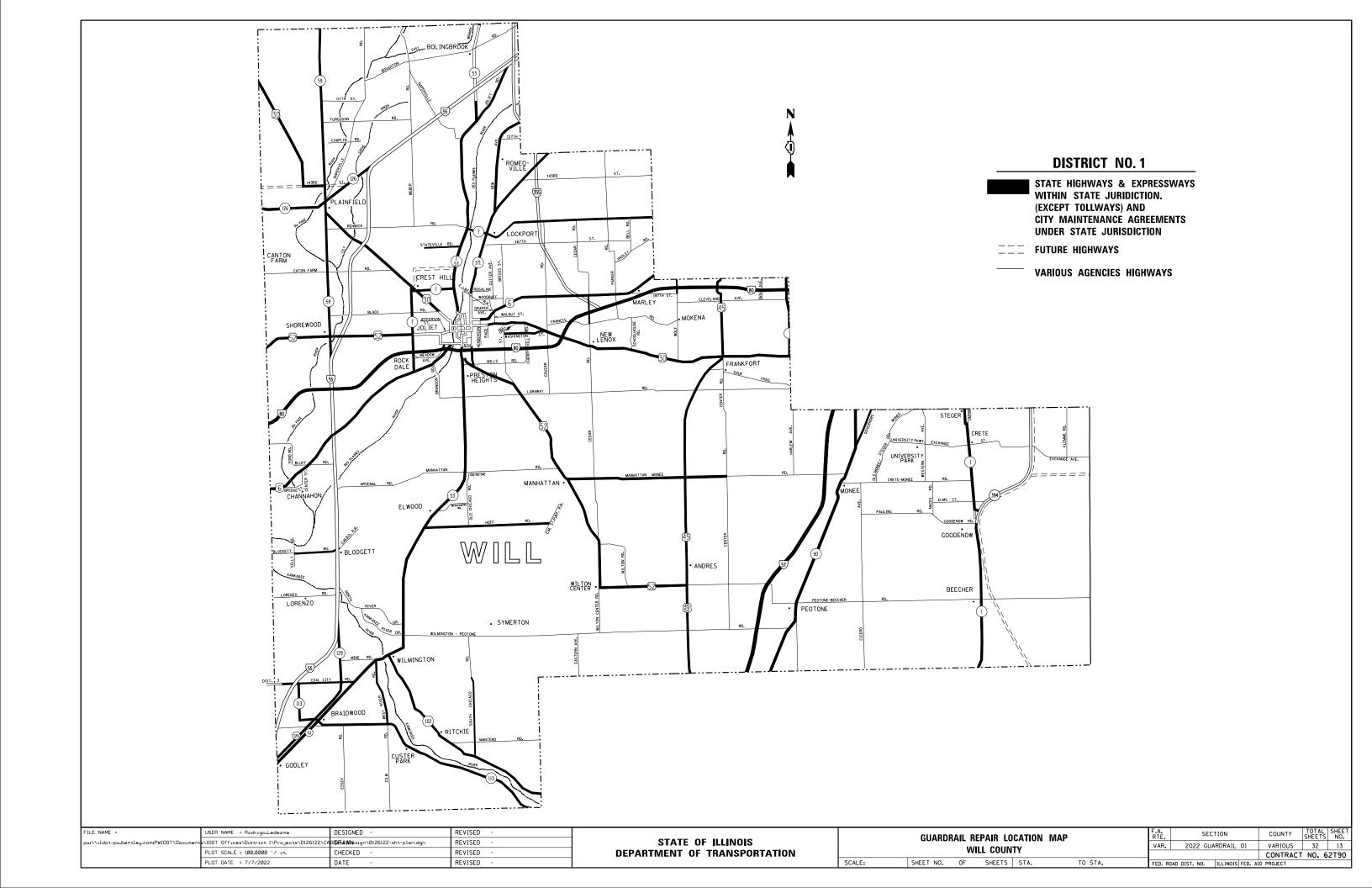
DISTRICT NO. 1

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

___ FUTURE HIGHWAYS

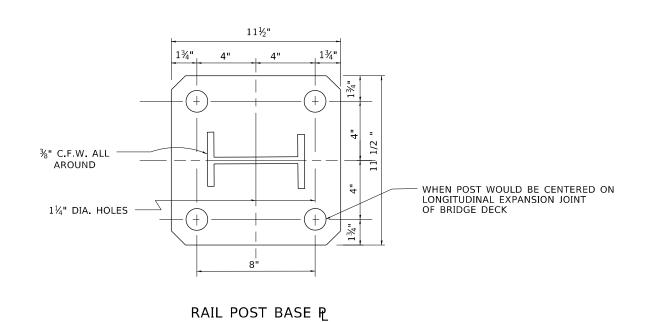
VARIOUS AGENCIES HIGHWAYS

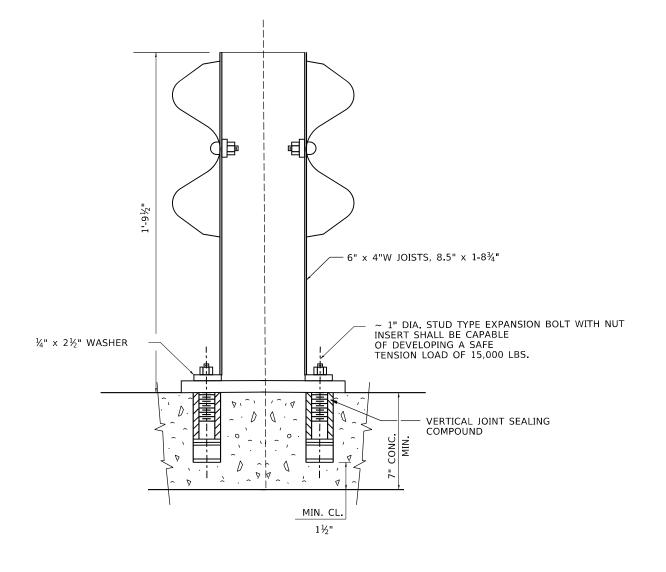
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	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FFD. ROA	AD DIST. NO. ILLINOIS FED. A	D PROJECT		



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.



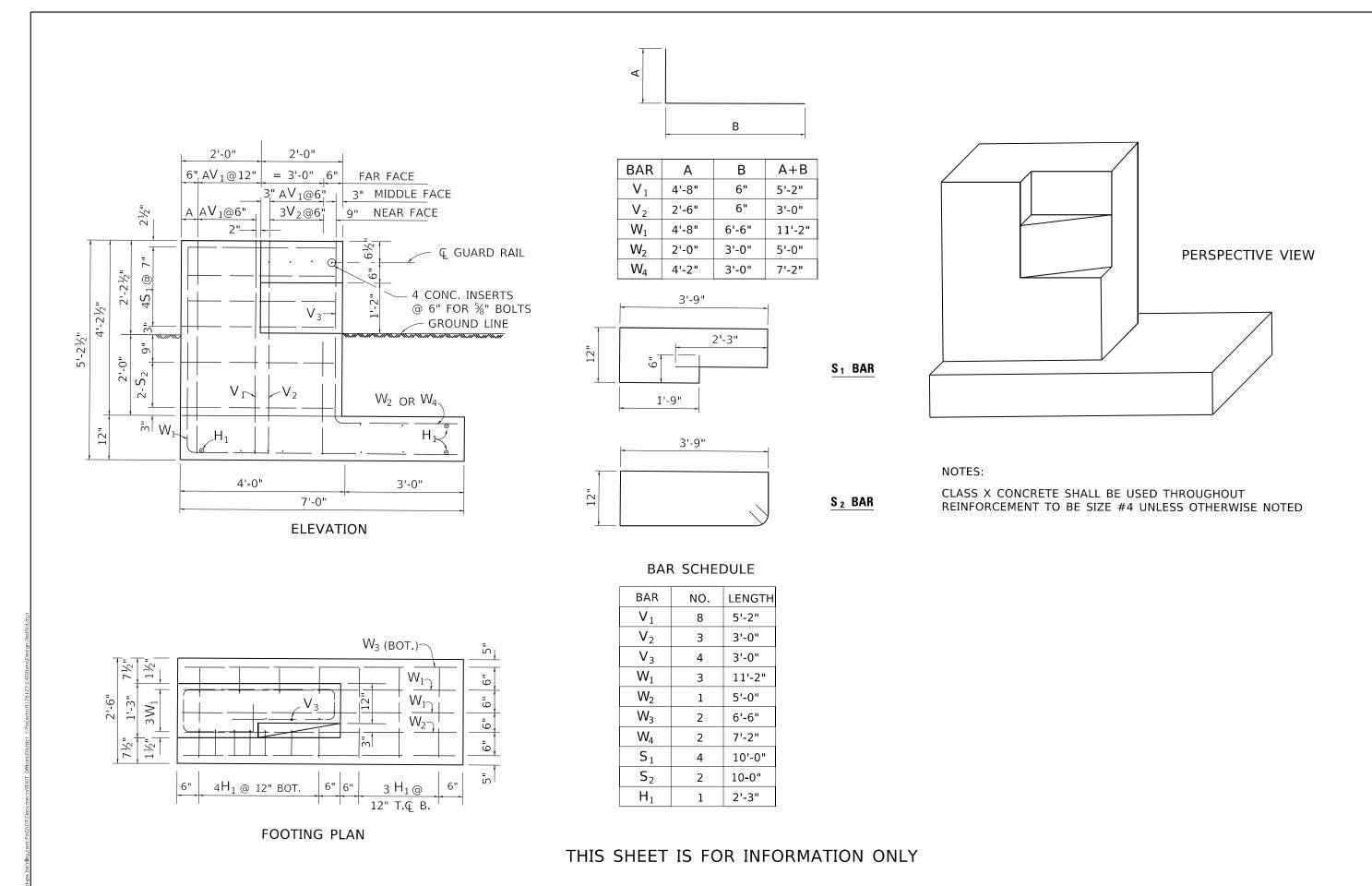


P_ 11½" x 1¼" x 11½"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE

MODEL: Default



MODEL: Default

 PLOT SCALE
 = 100,0000 ' / in.
 CHECKED
 R.F.L.
 REVISED

 PLOT DATE
 = 7/7/2022
 DATE
 10-31-88
 REVISED

DESIGNED

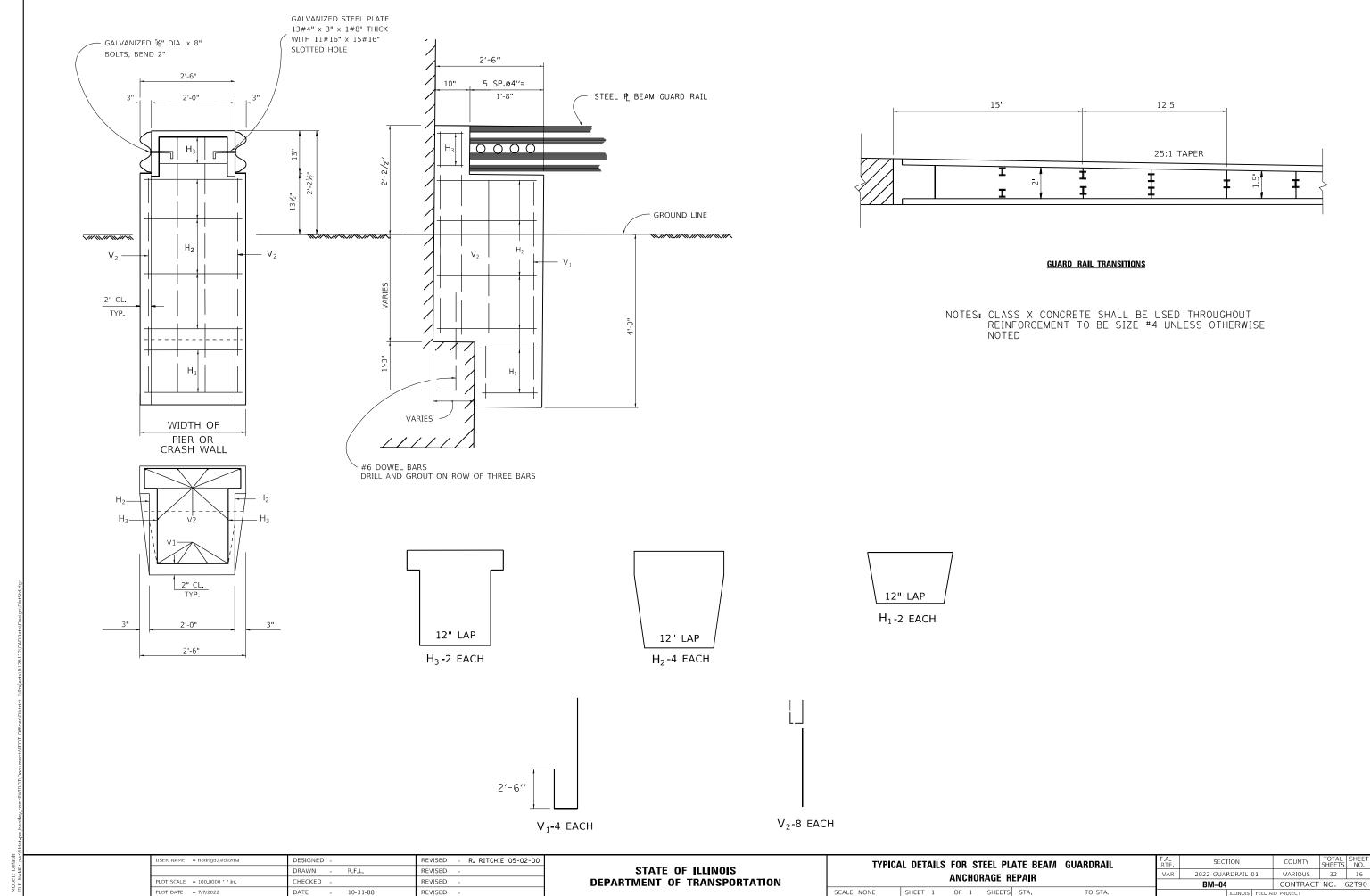
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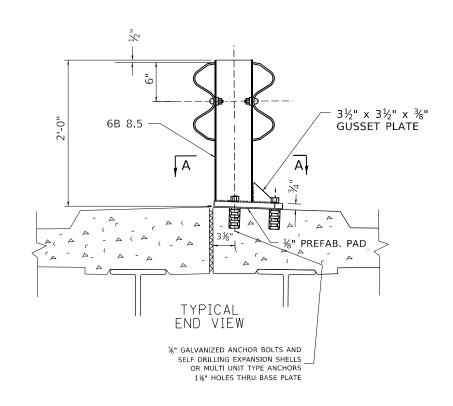
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

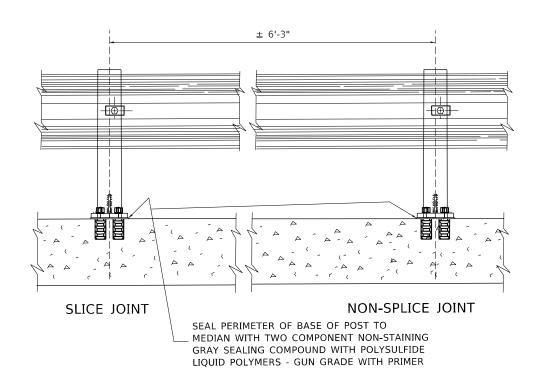
TYPICAL DETAIL FOR
GUARDRAIL ANCHOR BLOCK REPAIR

SHEET 1 OF 1 SHEETS STA. TO STA.

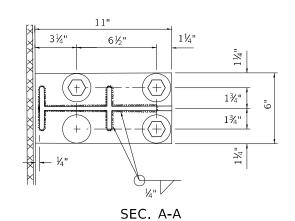
SCALE: NONE







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 TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT STATE OF ILLINOIS DRAWN R.F.L. REVISED **GUARDRAIL JOINT** HECKED REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: NONE SHEET 1 OF 1 SHEETS STA. PLOT DATE = 7/7/2022

REVISED DATE

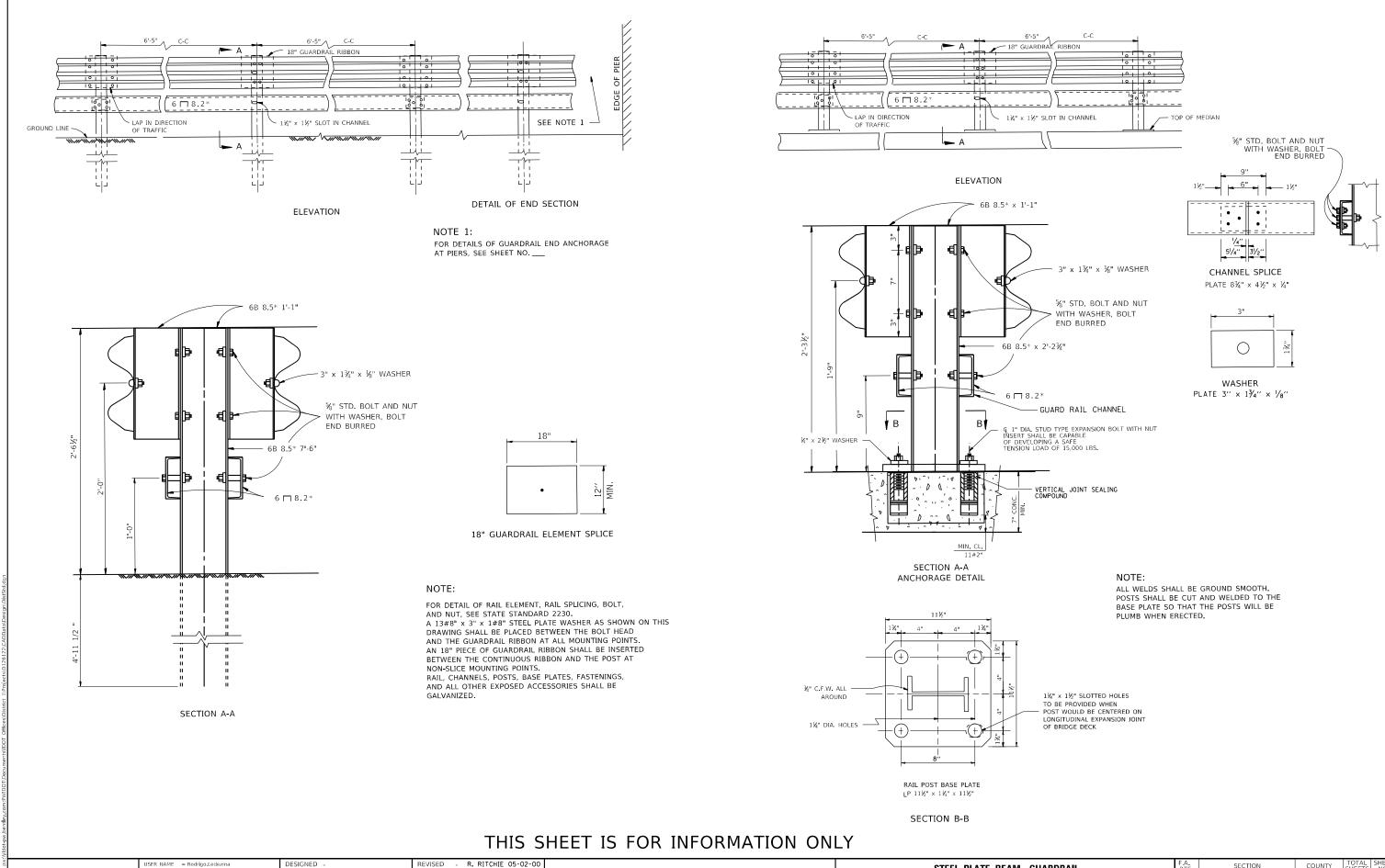
VARIOUS 2022 GUARDRAIL 01 32 17 CONTRACT NO. 62T90

GALVANIZED STEEL PLATE

13#4" x 3" x 1#8" AT ALL POST MOUNTING BOLTS

12' SECTION OF GUARDRAIL LOCATE AT ALL NON-SPLICE

MOUNTING POINTS



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL

SPECIAL

TO STA.

SHEET 1 OF 1 SHEETS STA.

SCALE: NONE

2022 GUARDRAIL 01

BM-06

VARIOUS 32 18

CONTRACT NO. 62T90

DESIGNED -

DRAWN

HECKED

DATE

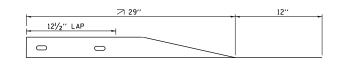
PLOT DATE = 7/7/2022

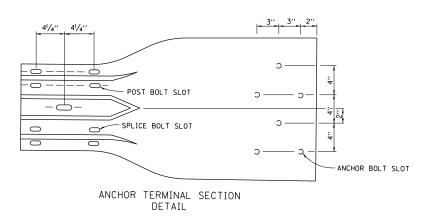
R.F.L.

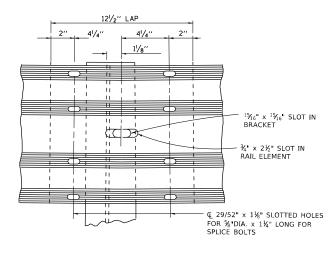
REVISED

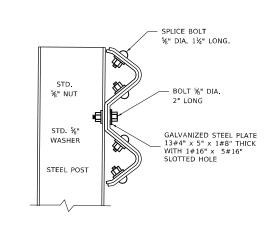
REVISED

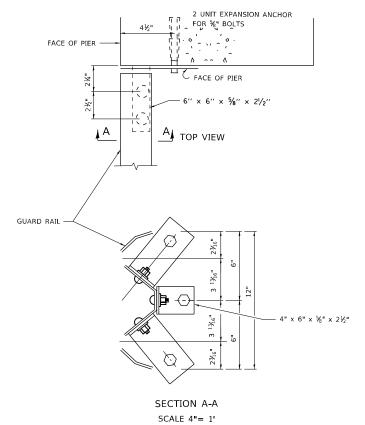
REVISED



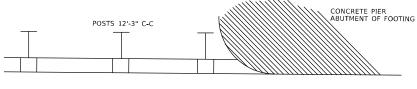




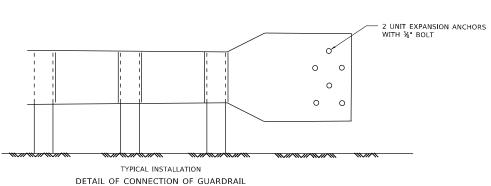




DETAIL OF CONNECTION OF GUARDRAIL TO SQUARE BRIDGE PIER OR FOUNDATION.

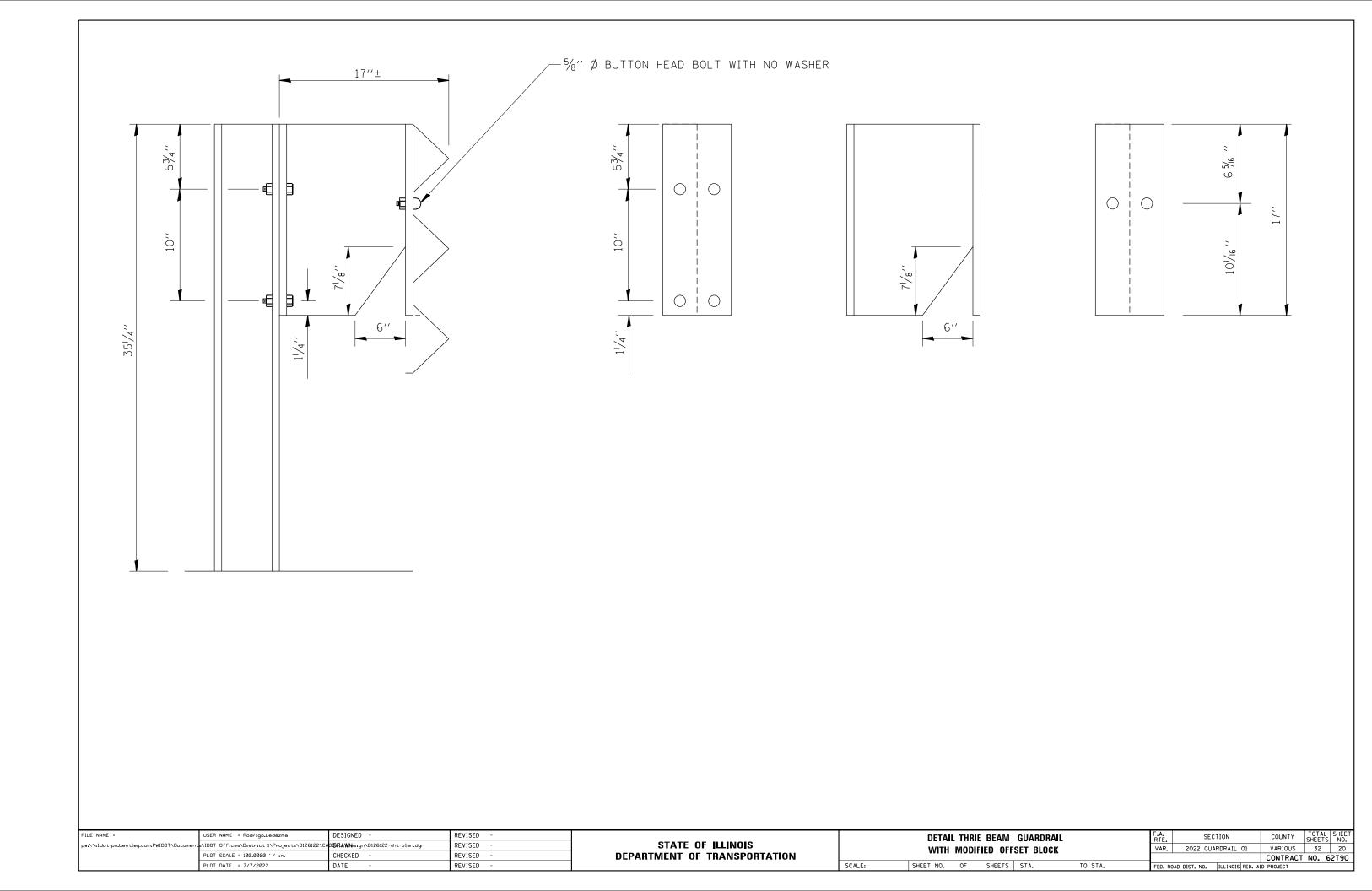


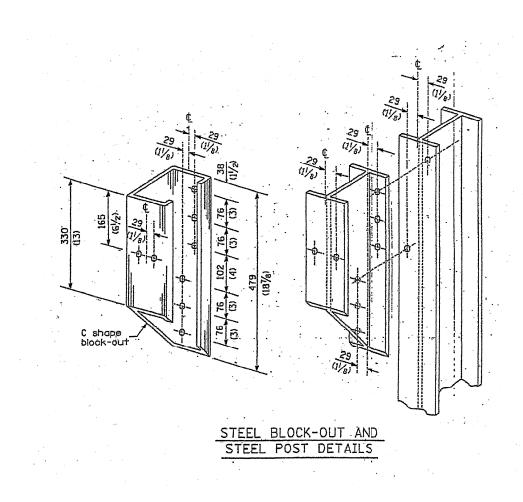
TO SQUARE BRIDGE PIER OR FOUNDATION.



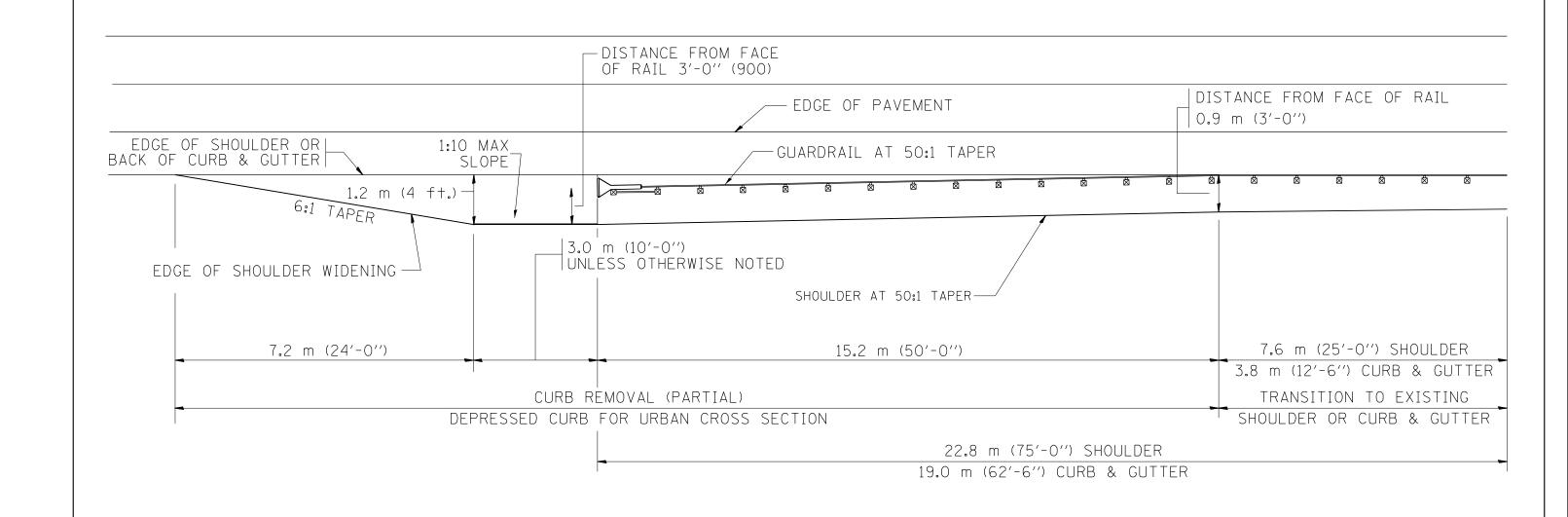
THIS SHEET IS FOR INFORMATION ONLY

USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED - R. RITCHIE 05-02-00		DETAIL OF GUARDRAIL SUPPORT	F.A. RTE	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN - R.F.L.	REVISED -	STATE OF ILLINOIS	AND END ANCHORAGE	VAR	2022 GUARDRAIL 01	VARIOUS	32	19
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	AND END ANCHURAGE		BM-07	CONTRACT	F NO. 6	52T90
PLOT DATE = 7/7/2022	DATE - 10-31-88	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		





FILE NAME =	USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED -			STFI	FI PIATE	BEAM GUARDRA	ii	F.A.	SECTION	COUNTY	TOTAL S	IEET
pw:\\ildot-pw.bentley.com:PWIDOT\Documen	ts\IDOT Offices\District 1\Projects\Di26122\CA	O DRAWN esign\Bl26122-sht-plan.dgn	REVISED -	STATE OF ILLINOIS					· ·	VAR.	2022 GUARDRAIL 01	VARIOUS	32	21
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			SIEEF DF	OCK-OUT DETAIL				CONTRACT	T NO. 62	90
Default	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

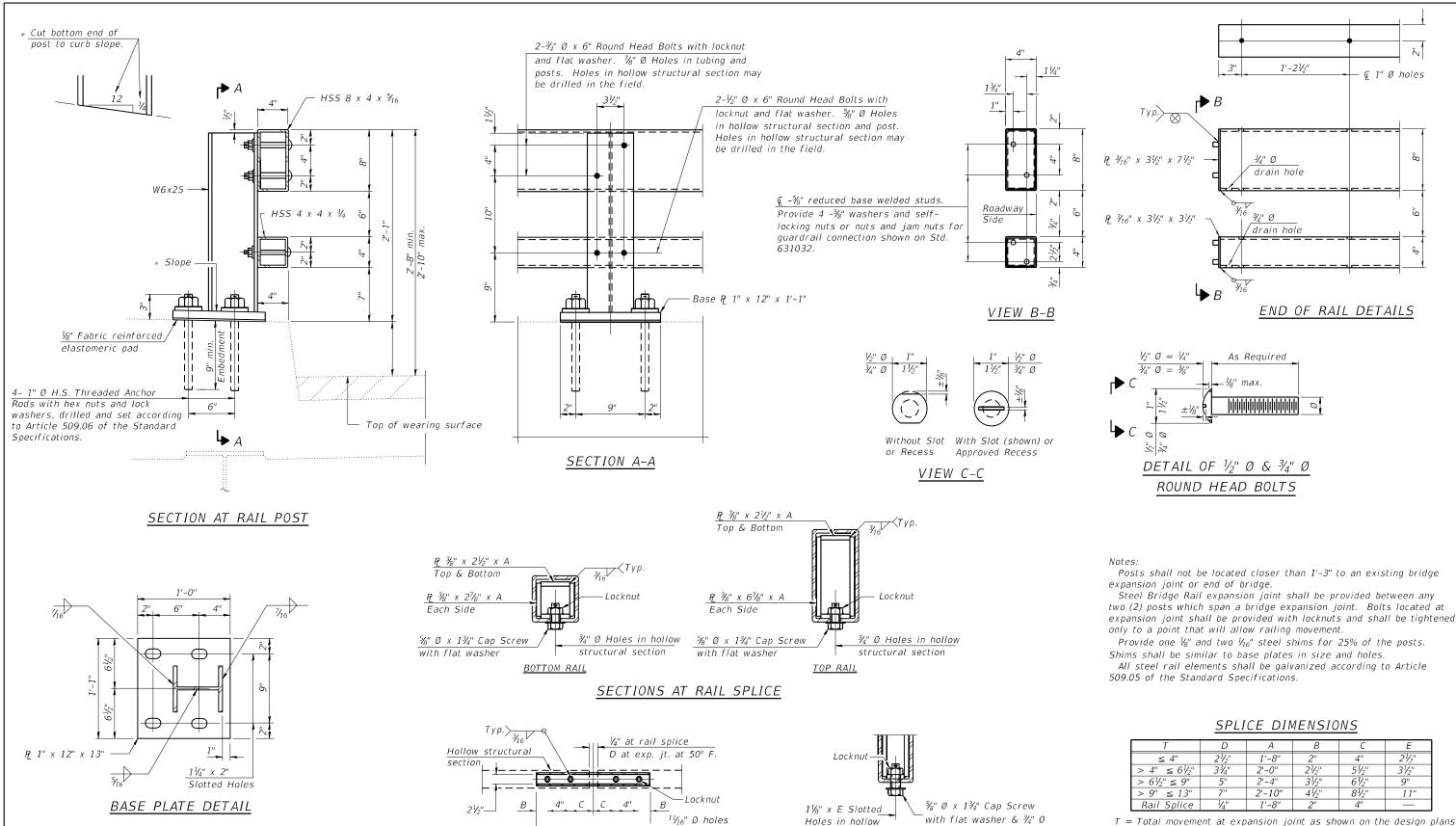


NOTES: THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION.

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

FILE NAME =	USER NAME = Rodrigo-Ledezma	DESIGNED -	REVISED -			CU	RR RFM(OVAL (PA	ARTIAL) FO	R	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
pw:\\ildot-pw.bentley.com:PWIDOT\Documer	nts\IDOT Offices\District I\Projects\D126122	\CAD ©RAWN esign\B126122-sht-plan.dgn	REVISED -	STATE OF ILLINOIS	,			•	AL, TYPE 1		VAR.	2022 GUARDRAIL 01	VARIOUS	32	22
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		NAFFIC E	Annich	I ENIVIEW	AL, ITFE I	SPECIAL			CONTRACT	NO. 6	2T90
Default	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT		



SPLICE DIMENSIONS

1'-21/2"

3/₄" Ø drain hole

¾" Ø

As Required

1/8" max.

/drain hole

END OF RAIL DETAILS

T	D	Α	В	С	Ε
≤ 4"	21/2"	1'-8"	2"	4"	21/2"
$> 4'' \le 6\frac{1}{2}''$	3¾"	2'-0"	21/2"	5½"	31/2"
$> 6\frac{1}{2}$ " ≤ 9 "	5"	2'-4"	31/2"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	41/2"	8½"	11"
Rail Splice	1/4"	1'-8"	2"	4"	_

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	

(6'-3" Maximum Post Spacing) R-31 2-17-2017

FILE NAME =	USER NAME = Rodrigo.Ledezma	DESIGNED -	REVISED -			STEEL RAILING, TYPE 2399	RTF.	SECTION	COUNTY	SHEETS NO.
pw:\\ildot-pw.bentley.com:PWIDOT\Documer	ts\IDOT Offices\District 1\Projects\Di26122	CAD DRAWN esign\B126122-sht-plan.dgn	REVISED -	STATE OF ILLINOIS		STRUCTURE NO.	VAR.	2022 GUARDRAIL 01	VARIOUS	32 23
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO.				CONTRACT NO. 62T90	
	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. RO	OAD DIST. NO. ILLINOIS FED. A		

in ¾" ₽_

PLAN-BOTT. SPLICE P

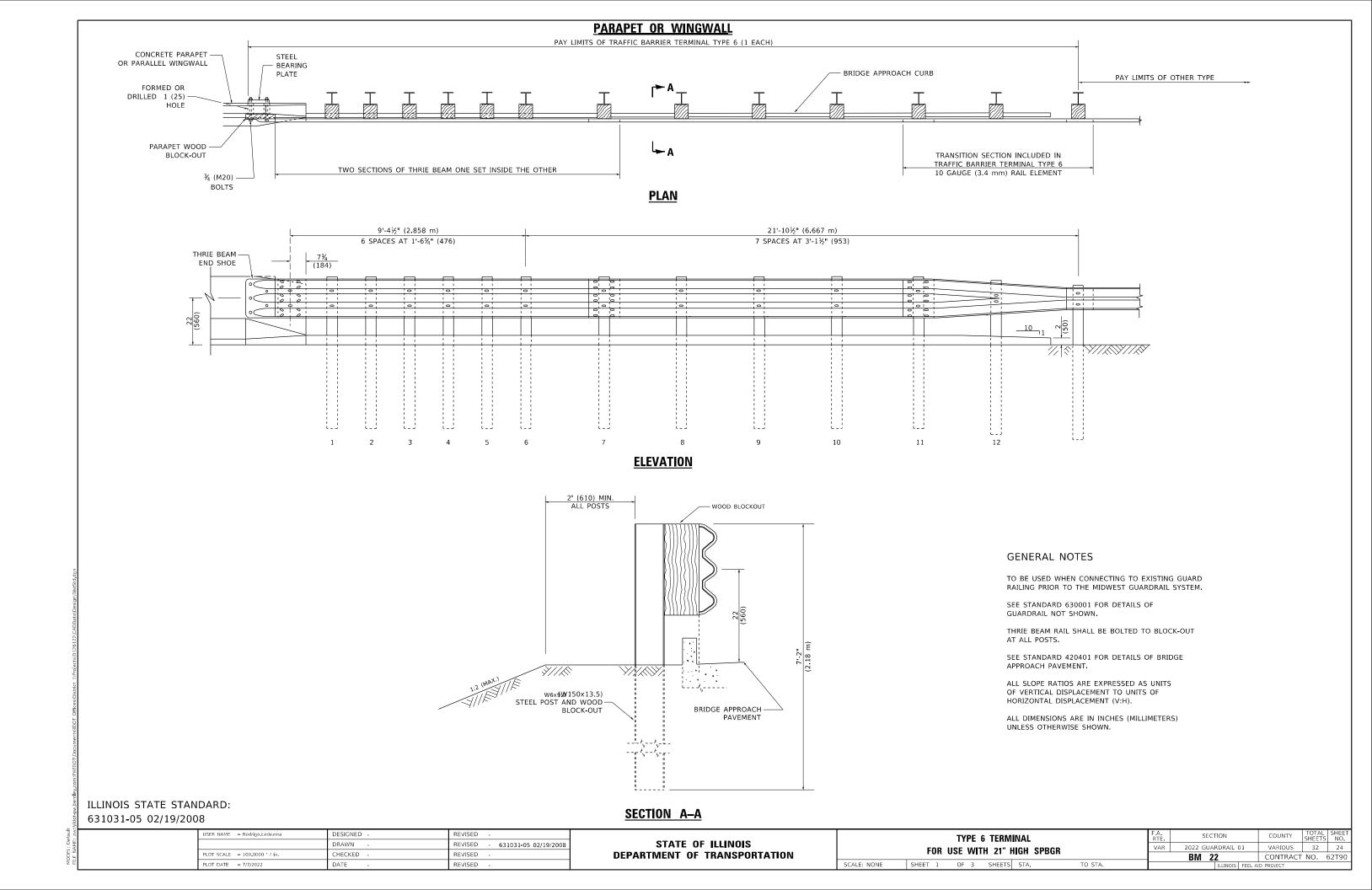
TYPICAL

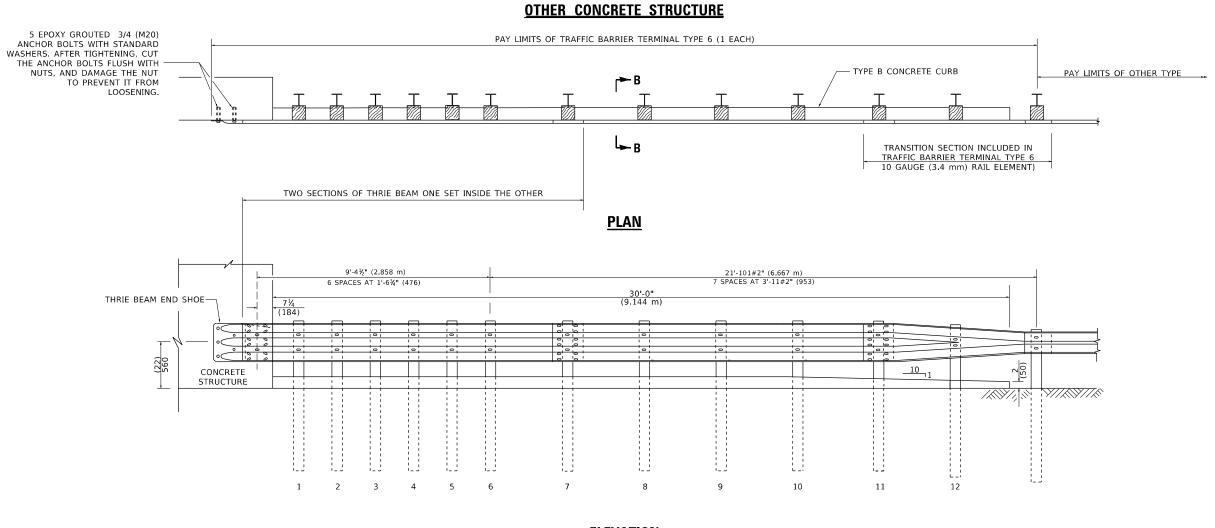
structural section

RAIL SPLICE CONNECTION

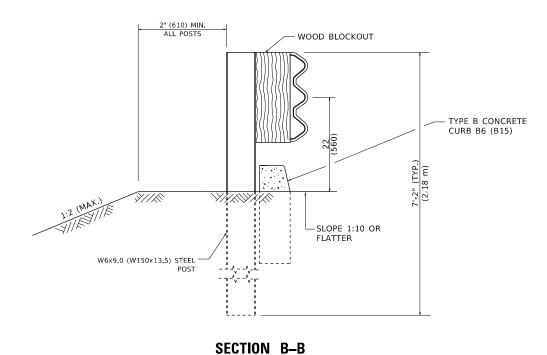
AT EXPANSION JT.

XS pipe spacer, ½" long.





ELEVATION

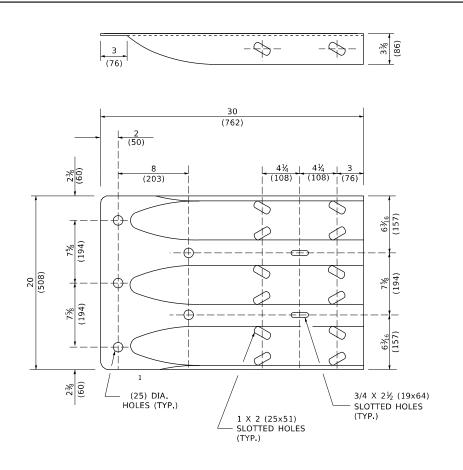


ILLINOIS STATE STANDARD: 631031-05 02/19/2008

USER NAME = Rodrigo Ledezma	DESIGNED -	REVISED -	
	DRAWN -	REVISED - 631031-05 02/19/2008	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 7/7/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE 6 TERMINAL FOR USE WITH 21" HIGH SPBGR						F.A. RTE				COUNTY	TOTAL SHEETS	SHEET NO.	
						VAR	2022 GUA	RDRAIL 01		VARIOUS	32	25	
	FUN USE WITH ZT NIGH SEDUN							BM 2	2		CONTRACT	NO.	62T90
SCALE: NONE	SHEET 2	. OF	: 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT						



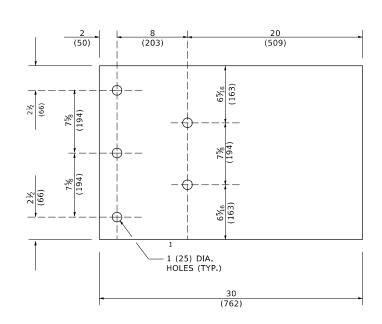
(533) (194) (1168) (1169) (1171) (194) (1171) (194) (1171) (194) (1171)

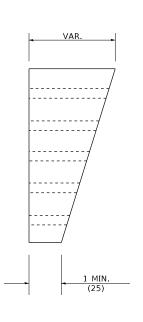
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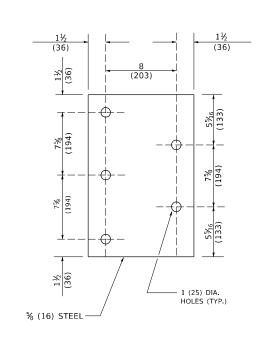
POST 12 WOOD BLOCKOUT DETAIL

POSTS 1–11 WOOD BLOCKOUT DETAIL

THRIE BEAM END SHOE DETAIL







PARAPET WOOD BLOCK-OUT DETAIL

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

PLOT DATE = 7/7/2022

DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

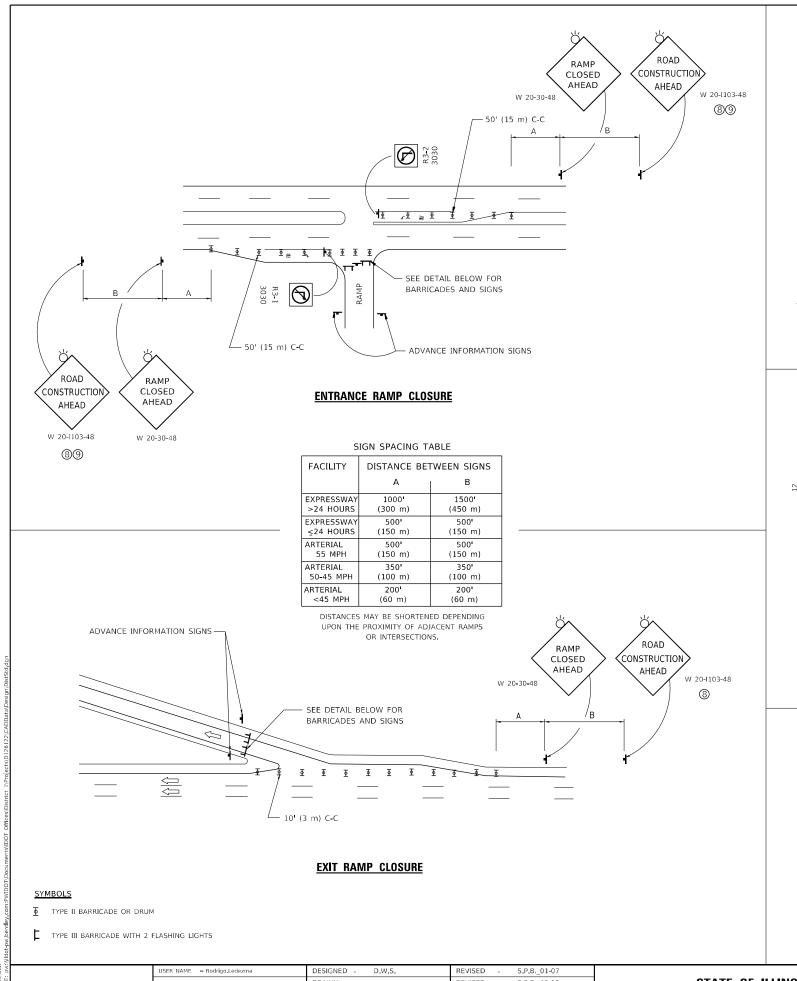
(5 EACH	INDIVI	DUAL 5	X5X ⅓	(125x	125x16) STE	EL
PLATES	WITH	CENTE	RED 1	(25) H	OLES M	AY B	Ε
SUI	3STITU	TED FO	R THE	PLATE	SHOW	٧.)	

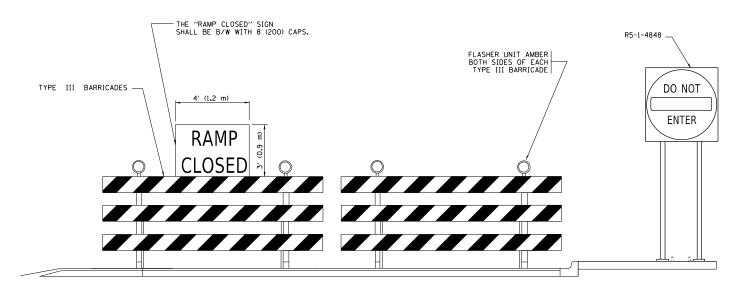
PARAPET STEEL BEARING PLATE DETAIL

	TYPE 6 TERM	INAL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FOR USE WITH 21" I	VAR	2022 GUARDRAIL 01	VARIOUS	32	26		
	TON OOL WITH ZT I		BM 22	CONTRACT	ΓNO.	62T90		
SCALE: NONE	SHEET 3 OF 3 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

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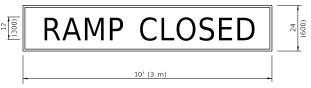
)DEL: Default E NAME: pw:\\ildot-pw.b





DETAIL FOR REQUIRED BARRICADES & SIGNS



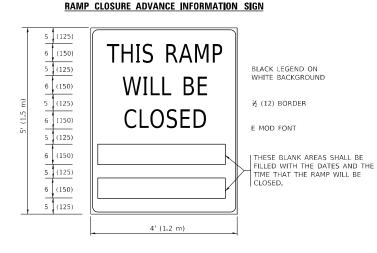


BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED

DIAGONALLY
E MOD FONT
1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE EXIT

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:

- OCONES 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.
- (3) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

SCALE: NONE

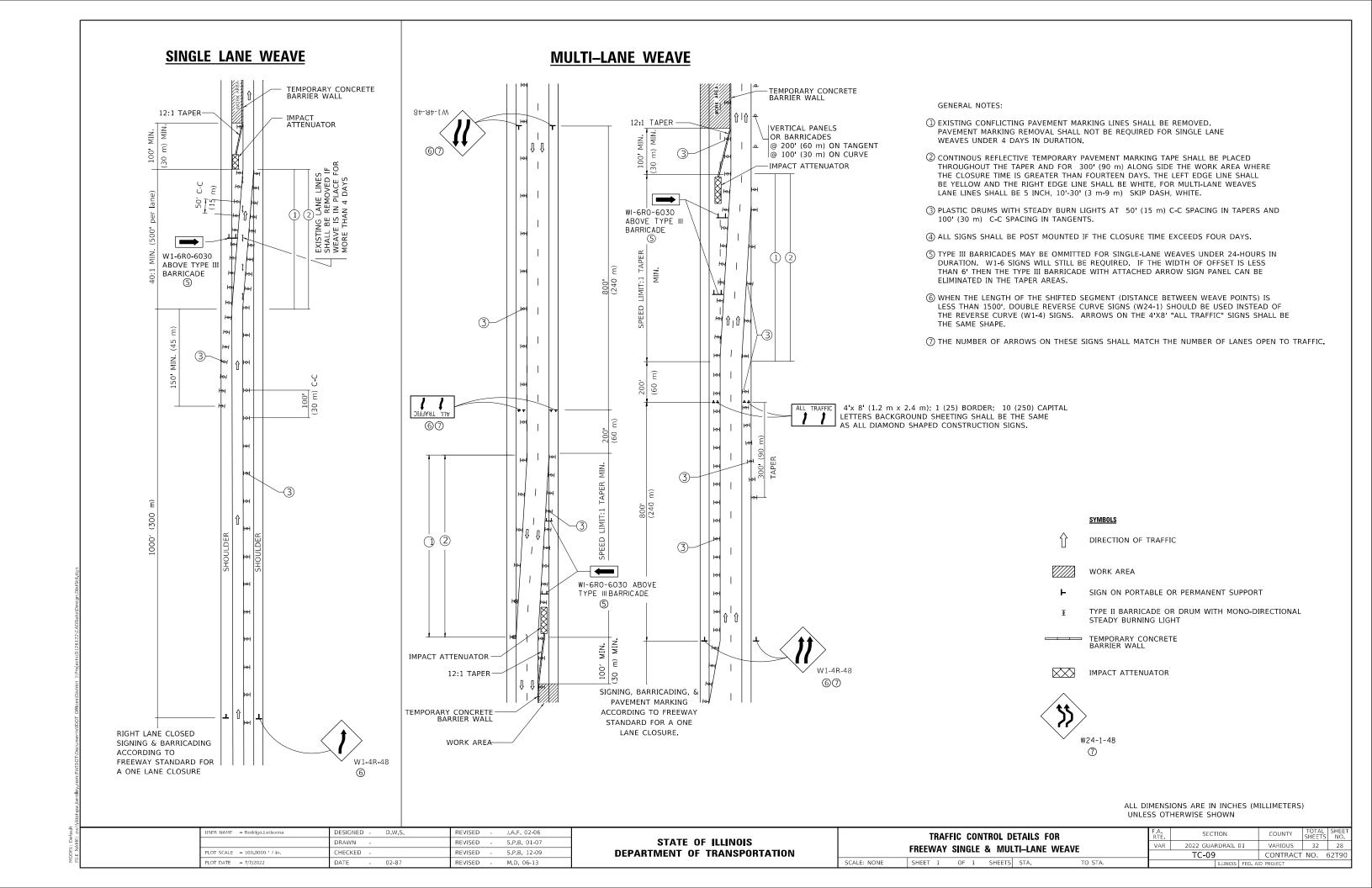
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT 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.

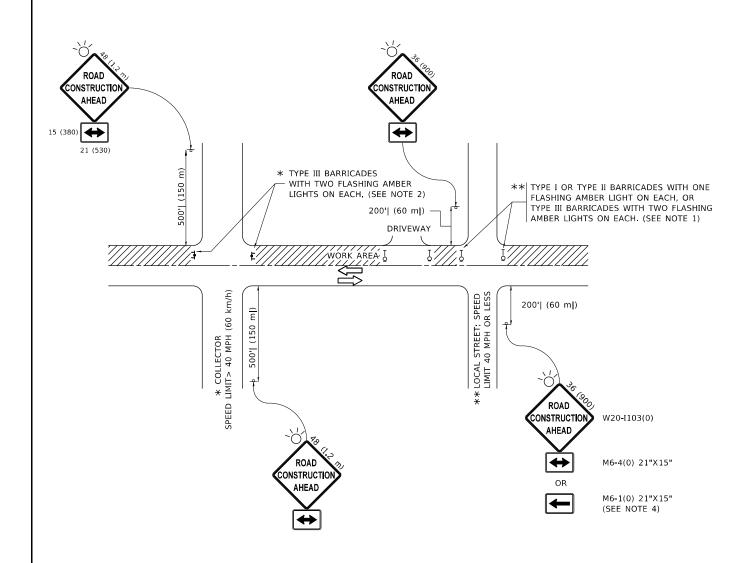
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

OSER MAINE - Roungo.ecucemu	DESIGNED - D.W.S.	NEVISED - 5.1.501 07	
	DRAWN -	REVISED - S.P.B12-09	STATE OF ILLINOIS
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - M.D06-13	DEPARTMENT OF TRANSPORTATION
PLOT DATE = 7/7/2022	DATE - 02-83	REVISED - M.D01-18	

							F.A. RTE	
CLOSURE DETAILS							VAR	2022
OLUSUNE_DETAILS —								Т
SHEET	1	OF	1	SHEETS	STA.	TO STA.		

F.A. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2022 GUAI	RDRAIL	01	VARIOUS	32	27
	TC-08		CONTRACT	NO.	52T90	
		ILLINOIS	FED. A	ID 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.
- 2. 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 = 7/7/2022	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TRAFFIC C SIDE ROADS				TION FOR DRIVEWAYS
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2022 GUARDRAIL 01	VARIOUS	32	29
	TC-10	CONTRACT	NO.	52T90

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

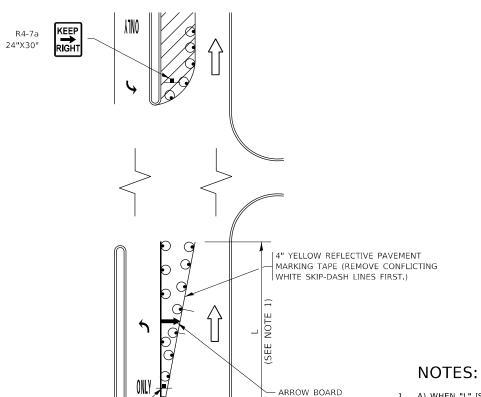


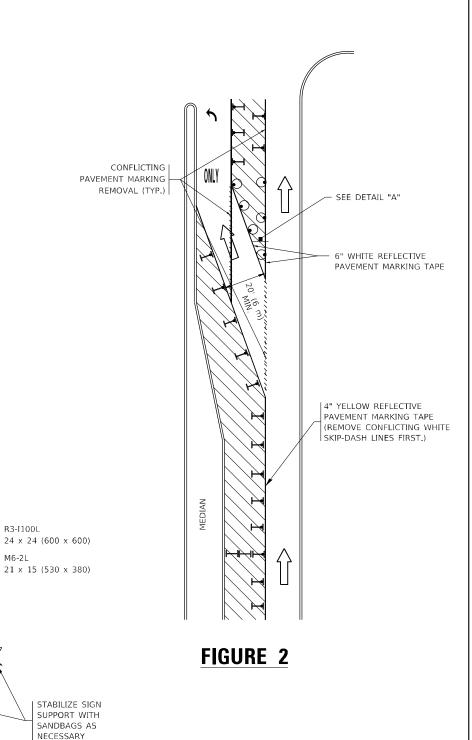
FIGURE 1

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

- 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

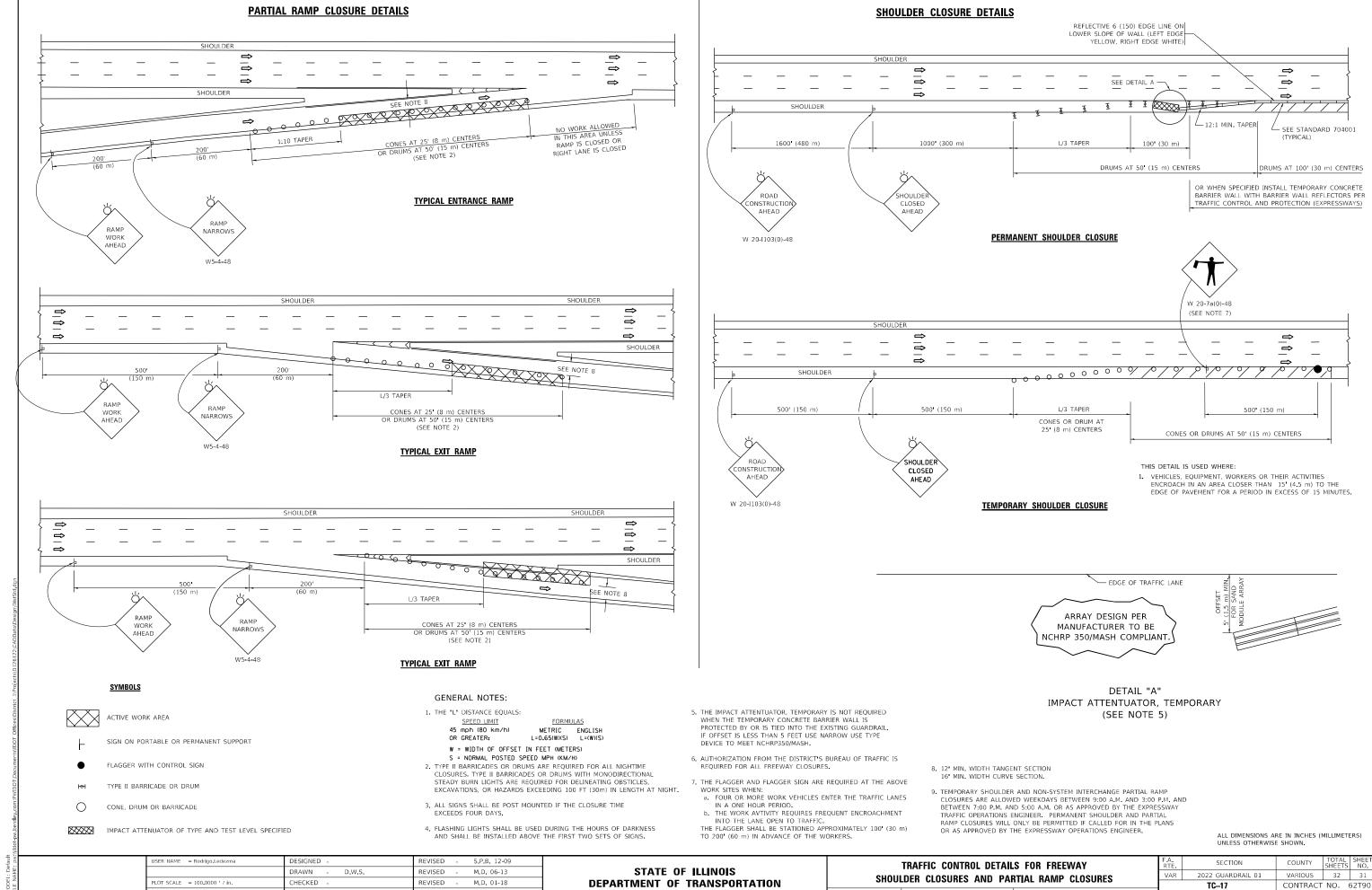
All dimensions are in inches (millimeters) unless otherwise shown.

USEK NAME = Kodrigo,Ledezma	DESIGNED	- 1.	RAMMACHER 09-08-94	KEVISED	-	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 = 7/7/2022	DATE	- T.	RAMMACHER 01-06-00	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS						F.A. RTE	F.A. SECTION	
						VAR	2022 GUARDRAIL 01	
		TC-14						
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FE	

VARIOUS 32 30 CONTRACT NO. 62T90 SHEET 1 OF 1 SHEETS STA.



M.D. 10-20

REVISED

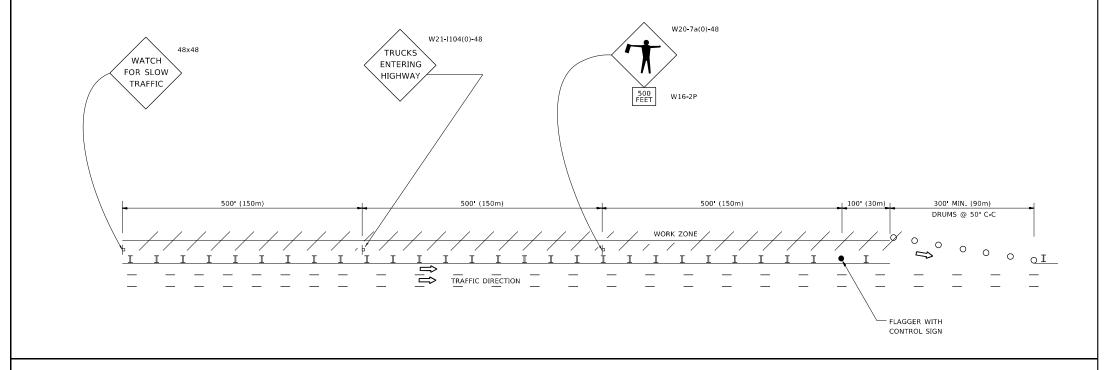
DATE

SHEET 1 OF 1 SHEETS STA.

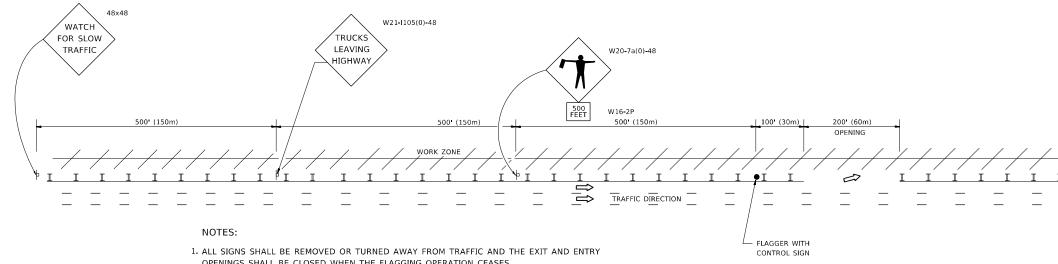
1

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 = 7/7/2022	DATE -	REVISED	-	M.D.06-13

				-	OPERATIONS			
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS								
SCALE: NONE	SHEET 1	OF 1	SHEETS S	STA.	TO STA.			

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
VAR	2022 GUARDRAIL	VARIOUS	32	32	
	TC-18	CONTRACT	NO.	62T90	
	ILLINOIS	FED. A	ID PROJECT		