07-15-2022 SPECIAL LETTING ITEM 016

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-6

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

VARIOUS 10 1

* D5 GR & FENCE REPAIR 2023-1

PROPOSED

HIGHWAY PLANS

VARIOUS ROUTES
SECTION D5 GR & FENCE REPAIR 2023-1
GUARDRAIL & FENCE REPAIR
VARIOUS COUNTIES

C-95-044-22

DE WITT CHAMPAIGN VERMILION

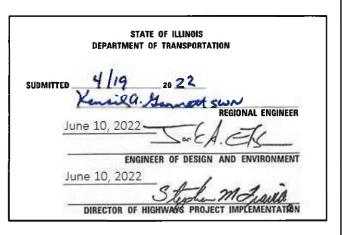
PIATT

DOUGLAS

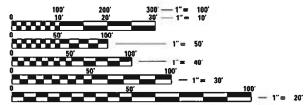
EDGAR

D-95-001-23





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: JASON STULTS, PE PROJECT LEADER: JASON GOBLE DESIGNER: MATTHEW MURPHY PHONE NUMBER: 217–465–4181 CONTRACT NO. 70F97

INDEX OF SHEETS

 SHEET NO.
 DESCRIPTION

 1
 COVER SHEET

 1
 INDEX OF SHEETS

 2
 HIGHWAY STANDARDS

 2
 GENERAL NOTES

 3
 TO
 6
 SUMMARY OF QUANTITIES

 7
 TO
 10
 PLAN DETAILS

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD
FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

HIGHWAY STANDARDS

STANDARD NO. 000001-08	DESCRIPTION STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-12	STEEL PLATE BEAM GUARDRAIL
630101 - 10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630111-01	WEAK POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
631033-08	TRAFFIC BARRIER TERMINAL, TYPE 6B
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
643001-02	SAND MODULE IMPACT ATTENUATORS
664001-02	CHAIN LINK FENCE
665001-02	WOVEN WIRE FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4,5M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ MPH TO 55 MPH
701422 - 10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901 - 08	TRAFFIC CONTROL DEVICES

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT

 USER NAME
 = goblejr
 DESIGNED
 MWM
 REVISED

 DRAWN
 JRG
 REVISED

 PLOT SCALE
 = 40,0000 / in.
 CHECKED
 REVISED

 PLOT DATE
 = 4/19/2022
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES
HIGHWAY STANDARDS, COMMITMENTS

SHEET 1 OF 1 SHEETS STA. TO

A. SECTION COUNTY TOTAL SHEETS NO.

YAR * VARIOUS 10 2

CONTRACT NO. 70F97

: \$MODELNAME\$ 4ME: pw:\\lidot-pw.bentlev.com:P\VIDOT\Do

	LOCATI	ON OF WORK:		VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
		COUNTY:		VARIOUS	VARIOUS	VARIOUS
	FUNDIN	IG BREAKOUT:		100% STATE	100% STATE	100% STATE
	CONSTRUCTIO	N TYPE CODE:		0021	0021	0021
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT.	HTCB
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100.0	75.0	25.0	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.0	2.0	2.0	
03100043	INATTIC BANNEN TENVINAL, TIFE 2	LACIT	4.0	2.0	2.0	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1.0	1.0		
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1.0	1.0		
			_			
63100087	TRAFFIC BARRIER TERMINAL. TYPE 6A	EACH	1.0	1.0		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1.0	1.0		
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1.0	1.0		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	55.0	43.0	12.00	
63400105	GUARD POSTS	EACH	10.0	10.0		
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1.0	1.0		
64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	1.0	1.0		
3-300070	IIII ASTATIETO (1 SEET TEBRESTIVE, WIDE), TEST LEVEL S	- LAGIT	1.0	1.0		
66400105	CHAIN LINK FENCE, 4'	FOOT	300.0	200.0	100.0	
66400305	CHAIN LINK FENCE, 6'	FOOT	450.0	250.0	200.0	
66500105	WOVEN WIRE FENCE, 4'	FOOT	2,500.0	2,300.0	200.0	
*SPECIALTY IT						

*SPECIALTY ITEM

USER NAME = goblejr	DESIGNED - MWM	REVISED -
	DRAWN - JRG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 4/19/2022	DATE -	REVISED -

	F.A. RTE	SECTION	C
SUMMARY OF QUANTITIES	VAR.	**	
			CC

	LOCATION	OF WORK:		VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
	FLINDING	COUNTY:		VARIOUS	VARIOUS	VARIOUS
	FUNDING CONSTRUCTION 1	BREAKOUT: TYPE CODE:		100% STATE 0021	100% STATE 0021	100% STATE 0021
CODE NO.	DESCRIPTION	<u>UNIT</u>	TOTAL QUANTITY	MCHD	CONTRACT MAINT.	HTCB
66501200	WOVEN WIRE GATES, 4' X 8' DOUBLE	EACH	1.0	1.0		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	28.0	14.0	14.0	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14.0	8.0	6.0	
X0325256	REPAIR HIGH TENSION CABLE (BRIFEN)	FOOT	70.0	40.0		30.0
X0325258	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (BRIFEN)	EACH	2.0	1.0		1.0
X0325260	REPAIR POSTS (BRIFEN)	EACH	15.0			15.0
7,0020200		L/(O/)	10.0			10.0
X0325264	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1.0	1.0		
70020204	INC. TAIL IN THE NOTION OF SECTION OF SECTIO	EXOIT				
X0325899	REPAIR HIGH TENSION CABLE (GIBRALTAR)	FOOT	850.0	50.0		800.0
70020099	NET AIR FROM CABLE (GIBINE IAIN)	1001	000.0	30.0		000.0
X0325901	REPAIR POSTS (GIBRALTAR)	EACH	800.0	340.0		460.0
70323901	NEI AIN 1 0010 (GIBINALIAN)	LACIT	000.0	340.0		400.0
X0325975	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)	EACH	20.0			20.0
A0323973	REFAIR FIIGH TENSION CABLE STSTEM END SECTION (GIBRALTAR)	EACH	20.0			20.0
X0326201	REPAIR HIGH TENSION CABLE (TRINITY)	FOOT	200.0			200.0
A0326201	REPAIR HIGH TENSION CABLE (TRINITY)	F001	200.0			
Vanagana	DEDAID DOCTO (TDINITY)	EAGU.				20.0
X0326202	REPAIR POSTS (TRINITY)	EACH	80.0			80.0
\/aa						
X0326203	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (TRINITY)	EACH	4.0			4.0
X2300003	SPLICING HIGH TENSION CABLE (BRIFEN)	EACH	2.0	1.0		1.0

*SPECIALTY ITEM

USER NAME = goblejr	DESIGNED - MWM	REVISED -
	DRAWN - JRG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 4/19/2022	DATE -	REVISED -

	F.A. RTE	SECTION
SUMMARY OF QUANTITIES	VAR.	**

		COUNTY:		VARIOUS	VARIOUS	VARIOUS
	FUNDING E	BREAKOUT:		100% STATE	100% STATE	100% STATE
	CONSTRUCTION T			0021	0021	0021
CODE NO. DE	ESCRIPTION	<u>UNIT</u>	TOTAL QUANTITY	MCHD	CONTRACT MAINT.	HTCB
X2300004 SF	PLICING HIGH TENSION CABLE (GIBRALTAR)	EACH	5.0			5.0
X2300005 SF	PLICING HIGH TENSION CABLE (TRINITY)	EACH	2.0			2.0
						_
X6330725 ST	TEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	50.0	25.0	25.0	
70000723	TELET EATE BEAM COARDINE (CHORT TABLES)	- 1001	30.0	20.0	25.0	
X6331110 ST	TEEL POSTS, SPECIAL	EACH	2.0	2.0		
X6340205 GL	UARD POSTS REMOVAL	EACH	10.0	10.0		
		İ				
X6432110 RE	EPLACE IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	80.0	70.0	10.0	
V0040504	HANNING SENOE POOT (24.0	45.0		
X6640594 CH	HAIN LINK FENCE POST 4'	EACH	24.0	15.0	9.0	
X6640601 CH	HAIN LINK FENCE POST 6'	EACH	24.0	15.0	9.0	
Z0008760 EM	MERGENCY WORK CALL OUT	EACH	40.0	25.0	15.0	
	-	_				
Z0012752 C0	ONCRETE STRUCTURE REPAIR	CU FT	11.0	11.0		
		-				
Z0020210 PL	ULL POST ARRANGEMENT	EACH	28.0	20.0	8.0	
Z0052000 RE	EPAIR STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	6,500.0	5,250.0	1,250.0	
Z0052100 RE	EPAIR STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	25.0	25.0		
+ +						
Z0052410 RE	EPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	20.0	14.0	6.0	
20032410	LI AIN TIVELLO DAINALIN TENNINAL, TIPE FOF LOIAL (TANGENT)		20.0	14.0	0.0	
*SPECIALTY ITEM						

*SPECIALTY ITEM

USER NAME = goblejr	DESIGNED - MWM	REVISED -
	DRAWN - JRG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 4/19/2022	DATE -	REVISED -

SCALE: NTS

OURANA DV. OF OUANITITIES				F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.				
	SUMMARY OF QUANTITIES		VAR.	**		*	10	5					
											CONTRACT	NO. 70)F97
SHEET	3	OF 4	1	SHEETS	STA	TO STA.			TELIMOTE	EED AL	D DDOJECT		

			LOCATION OF WORK:		VARIOUS ROUTES	VARIOUS ROUTES	VARIOUS ROUTES
			OOLINITY (VA BIOLIO	\/A E10110	V4 PIQUO
			COUNTY: FUNDING BREAKOUT:		VARIOUS 100% STATE	VARIOUS 100% STATE	VARIOUS 100% STATE
			CONSTRUCTION TYPE CODE:		0021	0021	0021
	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	MCHD	CONTRACT MAINT.	HTCB
			<u> </u>				
	Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4.0	4.0		
	Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1.0	1.0		
	Z0053200	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.0	4.0		
	Z0053210	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1.0	1.0		
	20000210	THE FAIR HOUT TO BARRIER TERMINAL, THE GA	EAGIT	1.0	1.0		
	Z0053220	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1.0	1.0		
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	ODEOLAL TALE				ı		

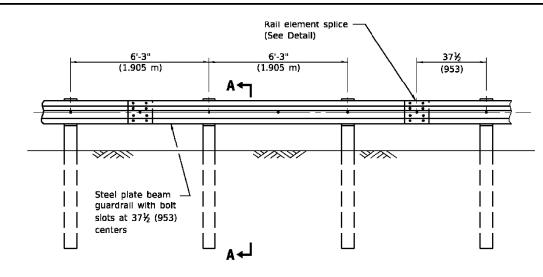
*SPECIALTY ITEM

USER NAME = goblejr	DESIGNED - MWM	REVISED -
	DRAWN - JRG	REVISED -
PLOT SCALE = 40.0000 / in	CHECKED -	REVISED -
PLOT DATE = 4/19/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

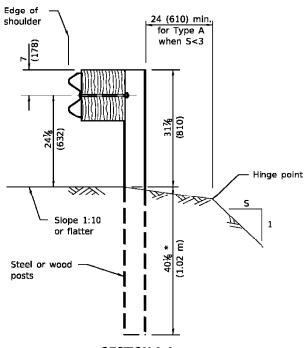
		OURANA DV. OF OURANTITIES							
SUMMARY OF QUANTITIES									
	CHEET	4	OF 4	CHEETE	CTA	TO CTA			



ELEVATION

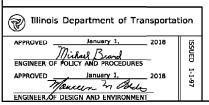
TYPE A

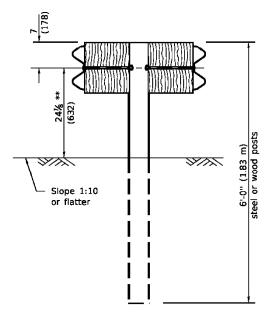
6'-3" (1.905 m) Typical post spacing



SECTION A-A

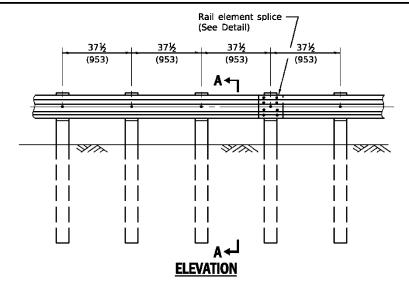
* When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post shall be steel and the embedment shall be 76% (1.93 m) and the minimum top of rail height shall be 31 (787).





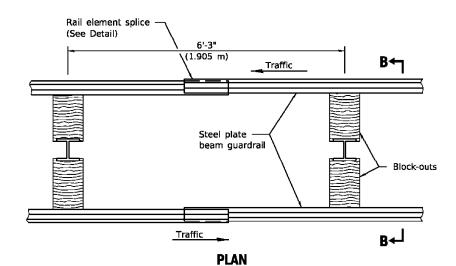
SECTION B-B

** When connecting Type D guardrail to an impact attenuator, adjust this dimension to match over a distance of 25'-0" (7.62 m) from point of connection if necessary.



TYPE B

37½ (953) Closed post spacing



TYPE D

Double steel plate beam guardrail 6'-3" (1.905 m) typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

DATE	REVISIONS	STEEL PLATE BEAM					
1-1-18	Revised steel post to have	CILLI DAIL DUAII					
	four holes in each flange.	GUARDRAIL					
1-1-17	Added detail for leave-out.	(Sheet 1 of 4)					
	Rev. 'D' to less than 6 (150)	STANDARD 630001-12					
	for guardrail behind curb.	OIANDAND GOGGET 12					

* DISTRICT WIDE ** D5 GR & FENCE REPAIR 2023-1

10 7

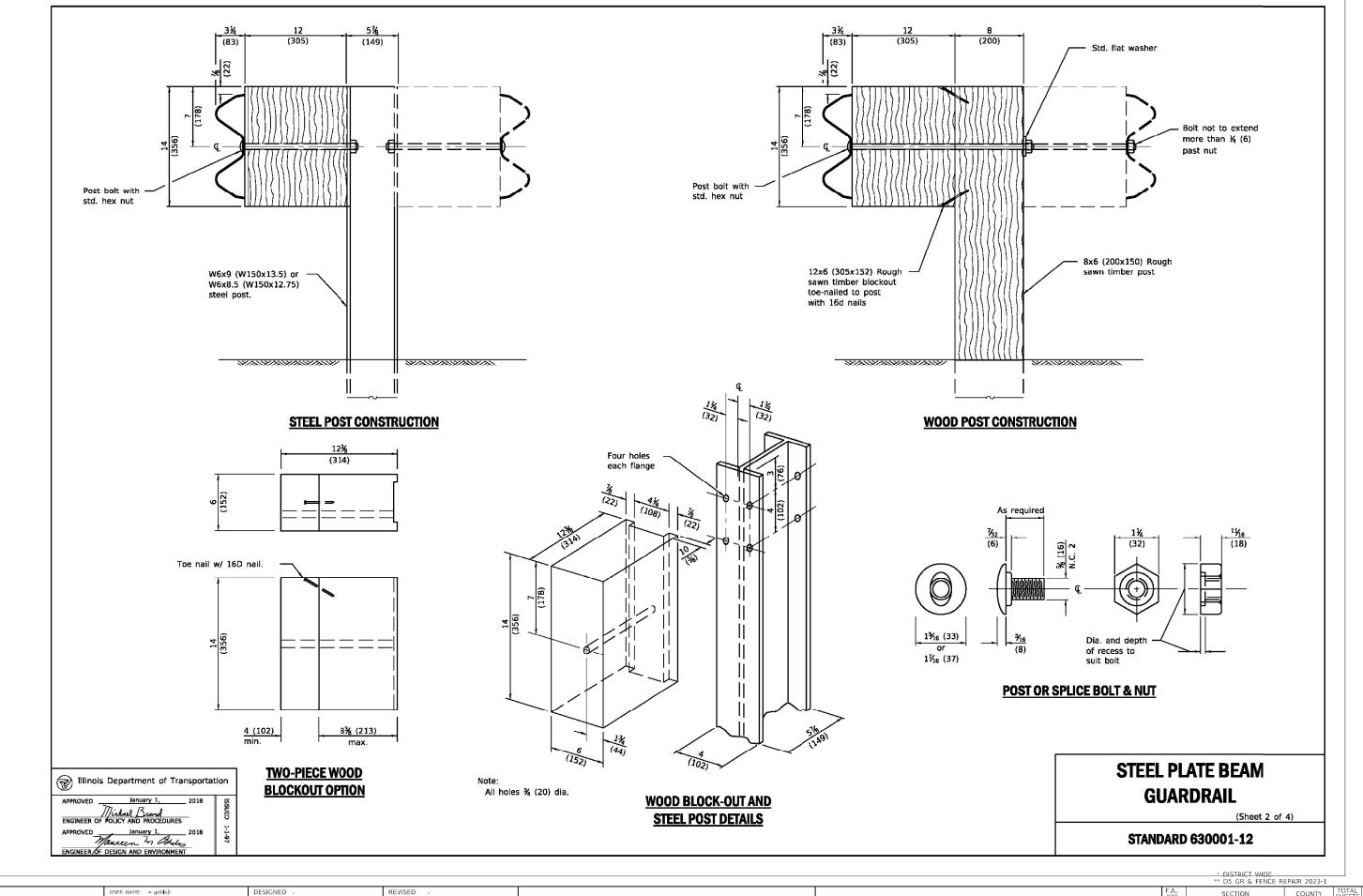
USER NAME = goblejr DRAWN REVISED CHECKED REVISED PLOT DATE = 4/19/2022 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION SHEET 1 OF 4 SHEETS STA. TO STA.

DESIGNED REVISED COUNTY STEEL PLATE BEAM GUARDRAIL DETAIL CONTRACT NO. 70F97

SCALE: NONE



DRAWN

CHECKED

DATE

PLOT DATE = 4/19/2022

REVISED

REVISED

REVISED

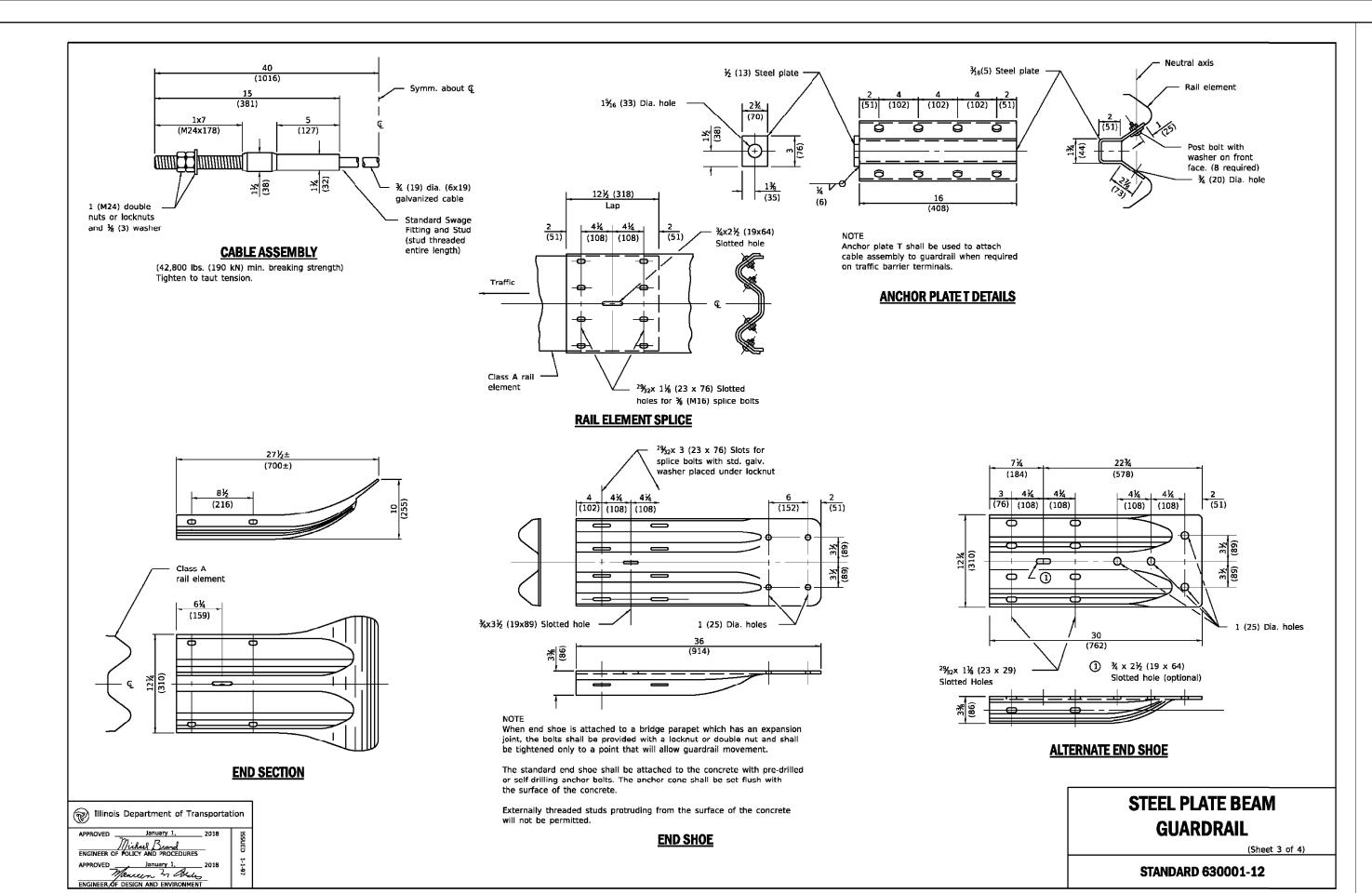
STATE OF ILLINOIS

STEEL PLATE BEAM GUARDRAIL DETAIL SHEET 2 OF 4 SHEETS STA.

SCALE: NONE

10 8 CONTRACT NO. 70F97

DEPARTMENT OF TRANSPORTATION

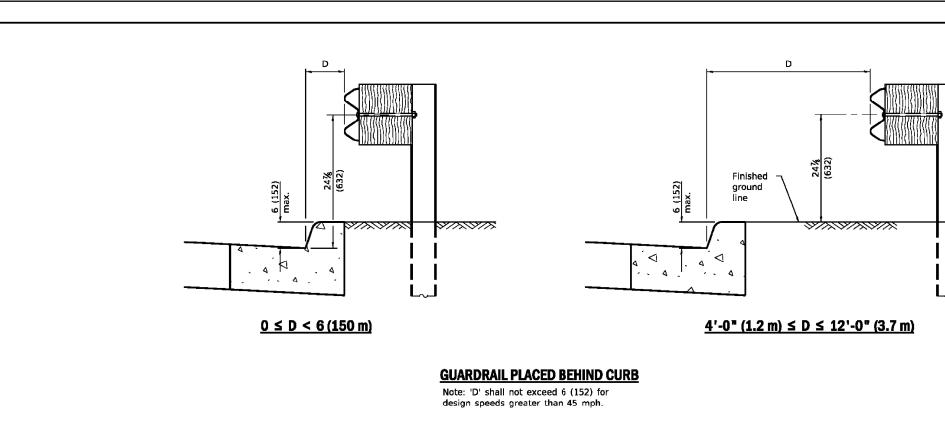


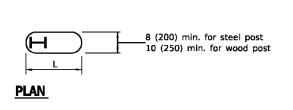
* DISTRICT WIDE ** D5 GR & FENCE REPAIR 2023-

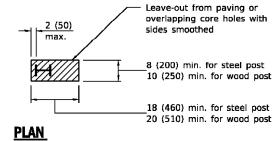
STEEL PLATE BEAM GUARDRAIL DETAIL

F.A. RTE. VAR. **

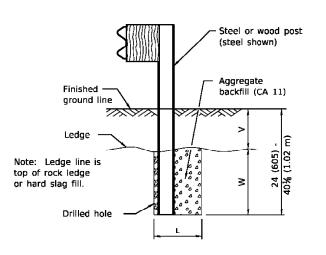
SHEET 3 OF 4 SHEETS STA. TO STA.

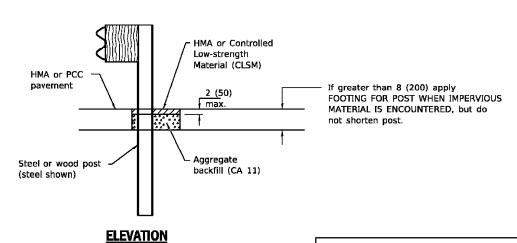






v	14/	W L			
V	VV	Steel Post	Wood Post		
0 - 6	24	21 23			
(0 - 152)	(610)	(530) (580)			
> 6 - 18	18	14½	16½		
(> 152 - 458)	(458)	(368)	(419)		
> 18 - 31	12	8	10		
(> 458 - 787)	(305)	(203)	(250)		
> 31 - 40½	12 - 0	8	10		
(> 787 - 1.02 m)	(305 - 0)	(203)	(250)		





Illinois Department of Transportation

APPROVED January 1, 2018

Middel Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018

Manuary 1, 2018

NEER OF DESIGN AND ENVIRONMEN

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

ELEVATION

LEAVE-OUT FOR POST WHEN PAVED MATERIAL IS ENCOUNTERED

SCALE: NONE

STEEL PLATE BEAM GUARDRAIL

(Sheet 4 of 4)

STANDARD 630001-12

* DISTRICT WIDE ** D5 GR & FENCE REPAIR 2023-1

USER NAME = goblejr	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 4/19/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						DO ON A TENGE NEITHN EDED I					
STEEL PLATE BEAM GUARDRAIL DETAIL					F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.	
					VAR.	**		*	10	10	
									CONTRACT	NO. 7	0F97
	SHEET 4	OF 4	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		