

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	1
		ILLINOIS	CONTRACT NO. 70H81	

D-95-011-26

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

CURRENT TRAFFIC DATA

F.A.I. RTE 74 / (I-74)

	ADT (2025)	PV%	SU%	MU%
LEG "A" =	26,400	68.4	3.6	28.0

TRAFFIC DATA LOCATIONS

LEG "A" = FAI-74 FROM 0.03 MILES W. OF CR 2500E (TR 312) TO
MARKET ST. AT OGDEN

FUNCTIONAL CLASSIFICATION

INTERSTATE

PROPOSED
HIGHWAY PLANS

FAI ROUTE 74 / (I-74)
SECTION D5 GR & FENCE REPAIR 2026-1
MEDIAN CABLE IMPROVEMENTS
CHAMPAIGN COUNTY

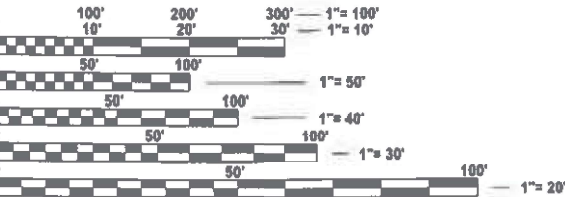
C-95-017-26

0.3 MILES WEST OF CR 2500E TO MARKET STREET IN OGDEN

DESIGN DESIGNATION

N/A

TOWNSHIP: OGDEN

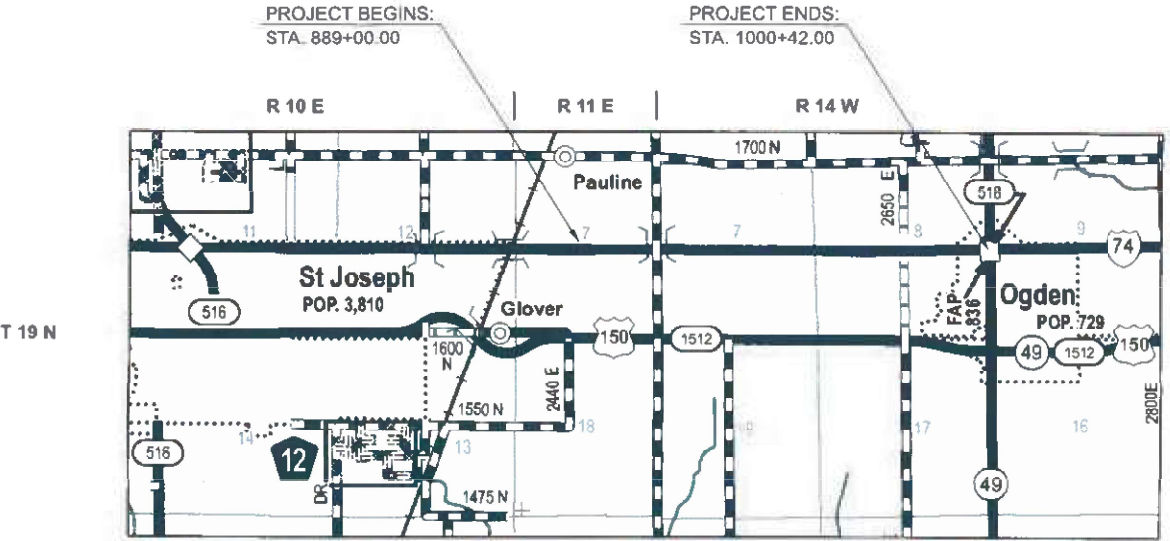


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: GREG EAGLIN
DESIGNER: TITUS MOOD
PHONE: (217) 465-4181

CONTRACT NO. 70H81



GROSS LENGTH = 11,142.00 FT. = 2.110 MILE
NET LENGTH = 11,420.00 FT. = 2.110 MILE



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 10/18/2025
Kensil A. Harrell
REGIONAL ENGINEER
January 23, 2026
S. E. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
January 23, 2026
J. P. H. 5
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF HIGHWAY STANDARDS
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-7	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS
8	SCHEDULE OF QUANTITES
8-10	PLAN SHEETS
11	EXISTING HIGH TENSION CABLE DETAIL

GENERAL NOTES

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

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

LIST OF HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>NAME OF STANDARD</u>
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-11	TRAFFIC CONTROL DEVICES
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

MODEL: General Notes [Sheet]
FILE NAME: c:\p\work\p\w\std\illinois.gov\117076\ID570H81_Sht_Gen Notes.dgn

	USER NAME = Greg.Eaglin	DESIGNED - TITUS MOOD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, GENERAL NOTES		F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	2
		CHECKED -	REVISED -				CONTRACT NO. 70H81				
	PLOT DATE = 9/18/2025	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAI 74 / (1-74)
RURAL 4 LANE
COUNTY: CHAMPAIGN
STA. 889+00.00
TO
STA. 1000+42.00
FUNDING BREAKOUT: 100% STATE

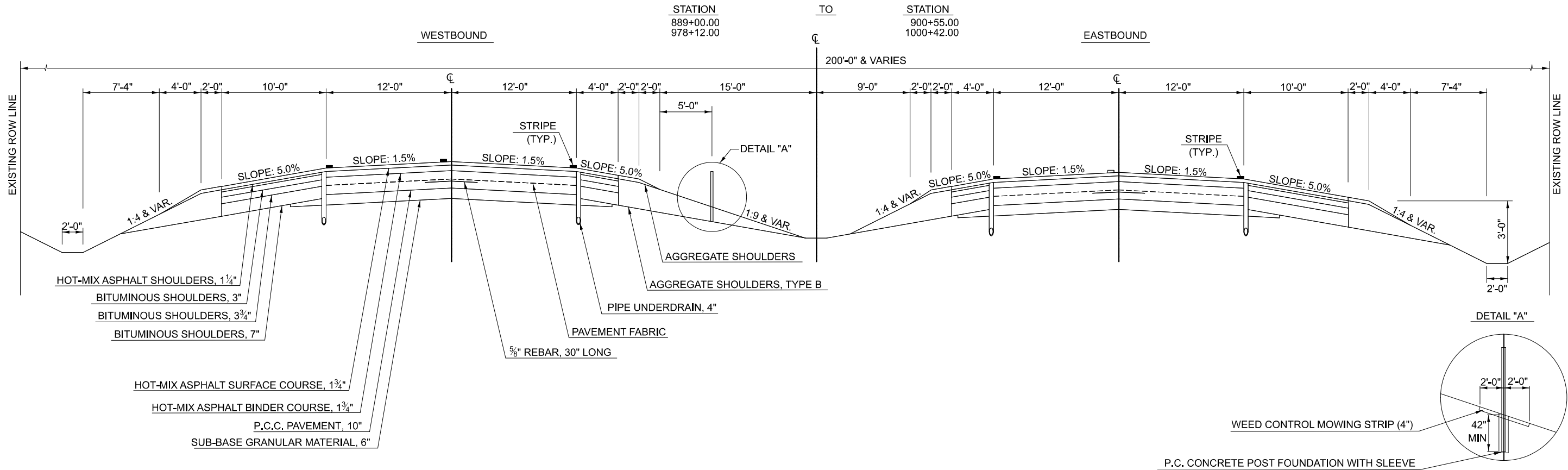
CONSTRUCTION CODE: 0021

	<u>CODE NO</u>	<u>ITEM</u>	<u>UNIT</u>		<u>TOTAL QUANTITY</u>
	67100100	MOBILIZATION	L SUM		1.0
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM		1.0
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA		6.0
	78200021	HIGH TENSION CABLE MEDIAN BARRIER REFLECTORS	EACH		334.0
	X3110102	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD		74.0
	X6440130	REPAIR HIGH TENSION CABLE (GIBALTAR)	FOOT		10,806.0
	X6440132	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBALTAR)	EACH		6.0
	Z0013798	CONSTRUCTION LAYOUT	L SUM		1.0

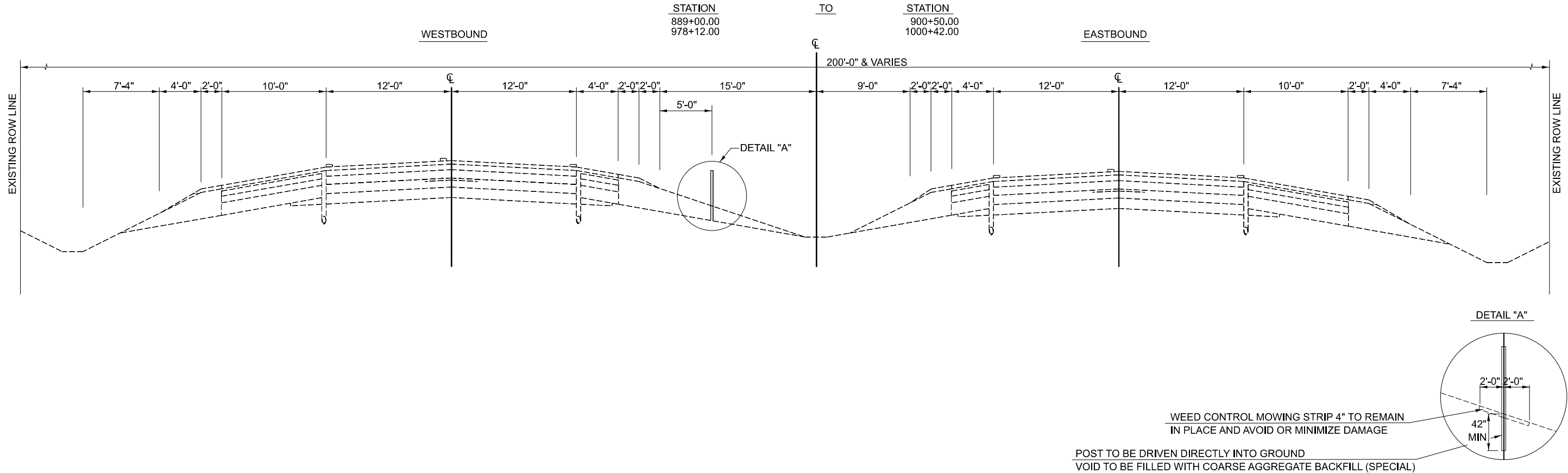
* SPECIALTY ITEM

MODEL: Summary of Quantities (Sheet)
FILE NAME: c:\pwworking\edaglin\gd1117076\ID570H81_Sht_SOO.dgn

A EXISTING TYPICAL CROSS SECTION



1 PROPOSED TYPICAL CROSS SECTION



MODEL: Typical Cross Sections [Sheet]
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USER NAME	= Titus,Mood	DESIGNED	-	TITUS MOOD	REVISED	-	
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PLOT DATE	= 9/18/2025	DATE	-		REVISED	-	

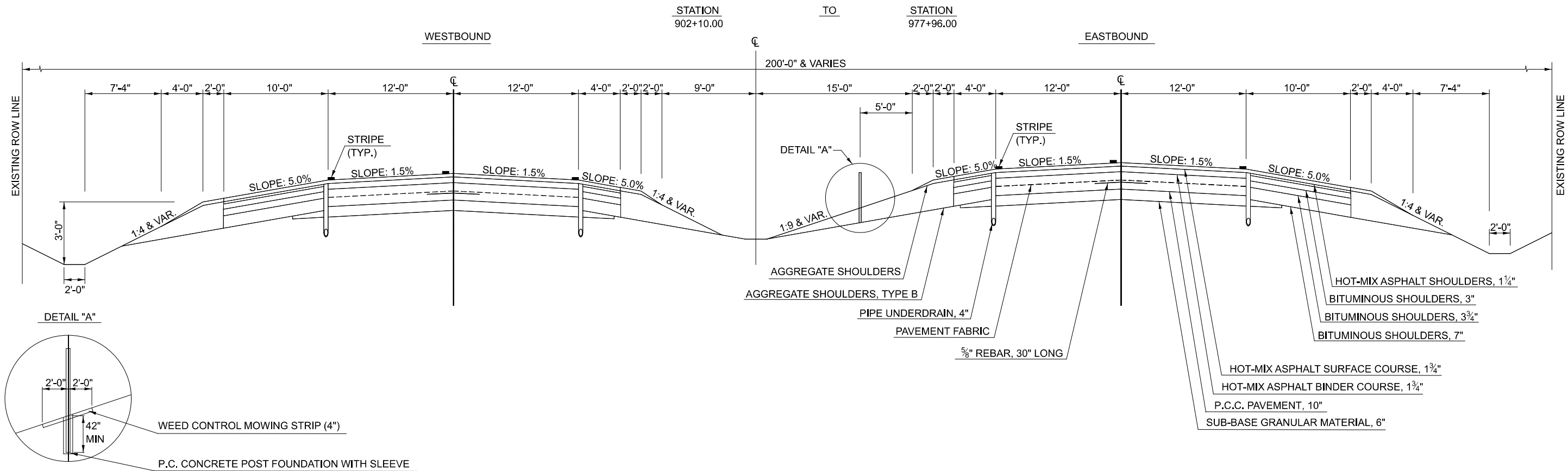
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

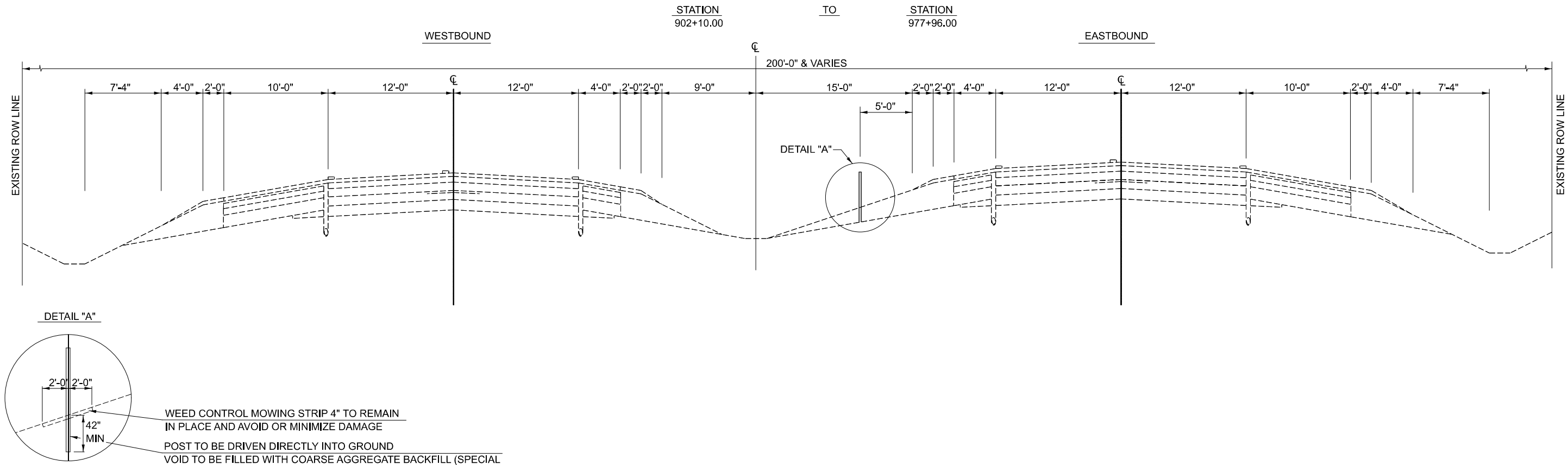
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	4
CONTRACT NO. 70H81				
ILLINOIS FED. AID PROJECT				

B EXISTING TYPICAL CROSS SECTION



2 PROPOSED TYPICAL CROSS SECTION



MODEL: Typical Cross Sections 2 (Sheet)
FILE NAME: c:\paw_work\wkt\aeaglin\gd1117076\0570H81_Sht_Typicals.dgn

USER NAME	= Greg.Eaglin	DESIGNED	-	TITUS MOOD	REVISED	-
		DRAWN	-		REVISED	-
		CHECKED	-		REVISED	-
PLOT DATE	= 9/18/2025	DATE	-		REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	5
CONTRACT NO. 70H81				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

X6440130 REPAIR HIGH TENSION CABLE (GIBRALTAR)
X6440132 REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)
78200021 HIGH TENSION CABLE MEDIAN REFLECTORS
X3110102 COARSE AGGREGATE BACKFILL (SPECIAL)

						X6440130	X6440132	78200021			X3110102
						REPAIR HIGH TENSION CABLE (GIBRALTAR) (FT)	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR) (EACH)	HIGH TENSION CABLE MEDIAN REFLECTORS (EACH)	NUMBER OF POSTS	VOLUME (CU YD)	COARSE AGGREGATE BACKFILL (SPECIAL) (CU YD)
LOCATION						STATION	TO	STATION	LENGTH (FT)		
MEDIAN	I-74 W.B. PL SECT #1	LT	889+00.00		889+27.50	27.50					
MEDIAN	I-74 W.B. PL SECT #1	LT	889+27.50		900+27.50	1100.00		1,100.00			
MEDIAN	I-74 W.B. PL SECT #1	LT	900+27.50		900+55.00	27.50		1.00	10.00	4.00	
MEDIAN	I-74 W.B. PL SECT #2	LT	902+10.00		902+37.50	27.50		1.00	10.00	4.00	
MEDIAN	I-74 W.B. PL SECT #2	LT	902+37.50		977+68.50	7531.00		190.00	503.00	0.102	51.18
MEDIAN	I-74 W.B. PL SECT #2	LT	977+68.50		977+96.00	27.50		1.00	10.00	4.00	
MEDIAN	I-74 E.B. PL SECT #3	RT	978+12.00		978+39.50	27.50		1.00	10.00	4.00	
MEDIAN	I-74 E.B. PL SECT #3	RT	978+39.50		1000+14.50	2175.00		2,175.00		56.00	145.00
MEDIAN	I-74 E.B. PL SECT #3	RT	1000+14.50		1000+42.00	27.50		1.00	10.00	4.00	
TOTAL =						10,806.00	6.00	334.00	746.00		73.47
USE =						10,806.00	6.00	334.00	746.00		74.00
						FT	(EACH)	EACH	EACH		CU YD

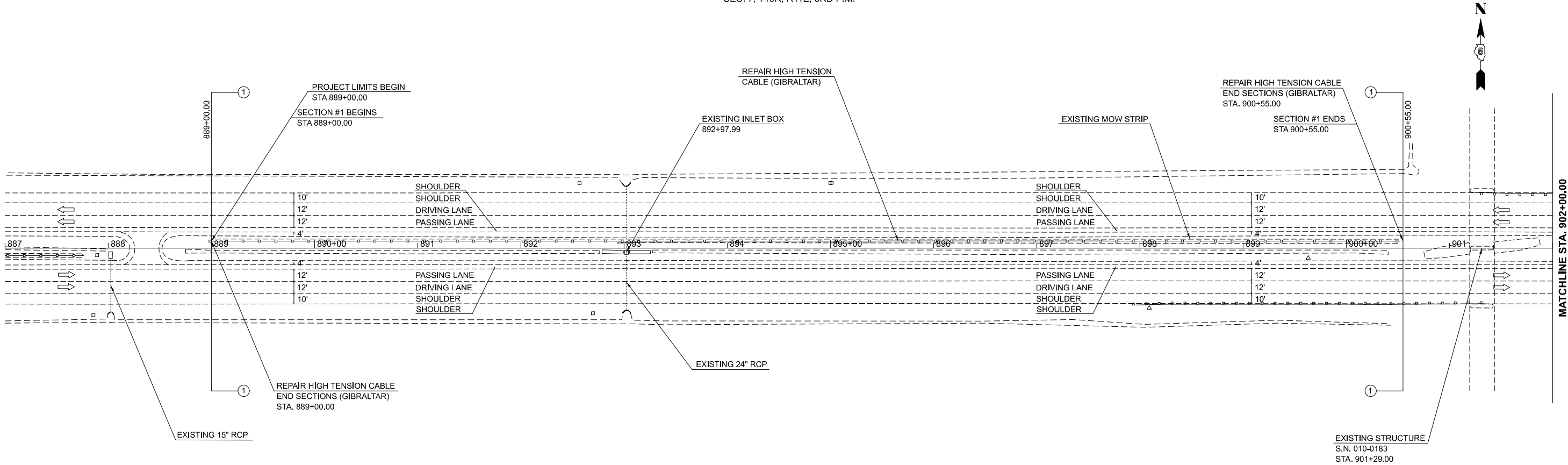
70107025 CHANGEABLE MESSAGE SIGN

LOCATION		PUBLIC NOTIFICATION (**) (CAL DA)	CMS USED DURING CONSTRUCTION (CAL DA)	TOTAL QUANTITY (CAL DA)
I-74	EASTBOUND	3.0		3.0
I-74	WESTBOUND	3.0		3.0
			TOTAL =	6.0
				CAL DA

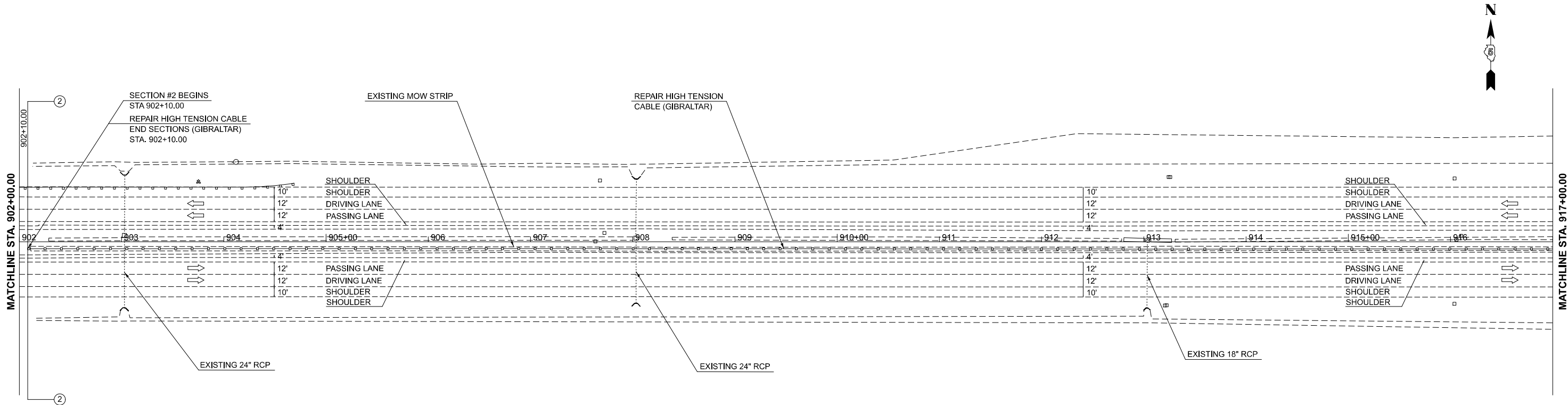
** NOTE:
SEE SPECIAL PROVISIONS FOR PUBLIC NOTIFICATION REQUIREMENTS.

MODEL: Schedules [Sheet]
FILE NAME: c:\pw_work\pwtdoeaglin\gald117076\0570H81_Sht_Schedule.dgn

SEC. 7, T19R, R11E, 3RD P.M.



SEC. 7, T19R, R14W, 2ND P.M.



MODEL: I74 - Sheet 1
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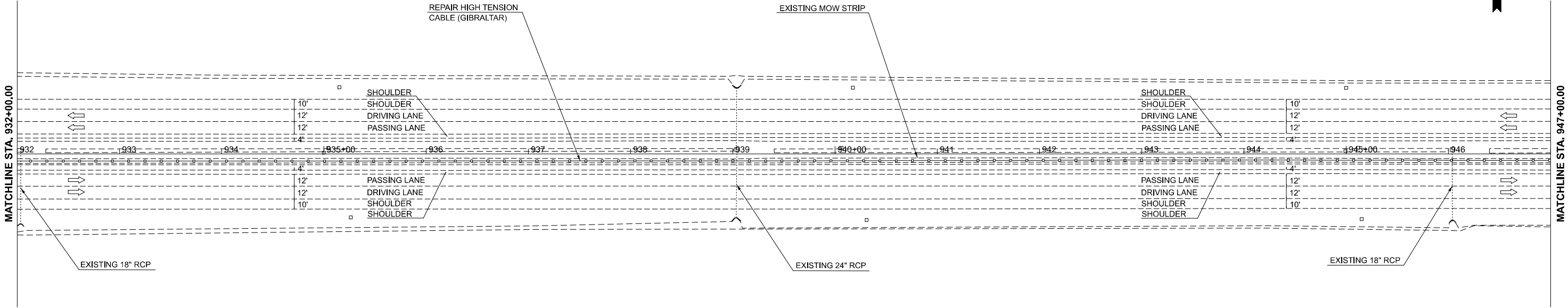
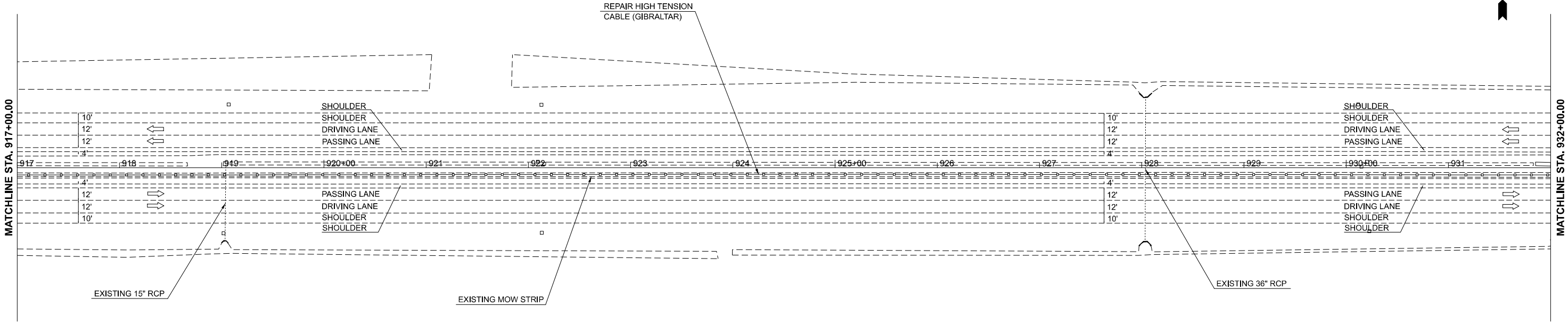
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			DRAWN -		REVISED -	
			CHECKED -		REVISED -	
	PLOT DATE	= 9/18/2025	DATE -		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS

SCALE: 1"=50'
SHEET 1 OF 4 SHEETS
STA. 887+00.00 TO STA. 917+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	7
CONTRACT NO. 70H81				
ILLINOIS FED.AID PROJECT				



MODEL: I74-Sheet 3
FILE NAME: c:\pw_work\pwitoeaglin\gd1117076\0570H81_Sht_Plan.dgn

	USER NAME	= Greg.Eaglin	DESIGNED -	TITUS MOOD	REVISED -
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			CHECKED -		REVISED -
	PLOT DATE	= 9/17/2025	DATE -		REVISED -

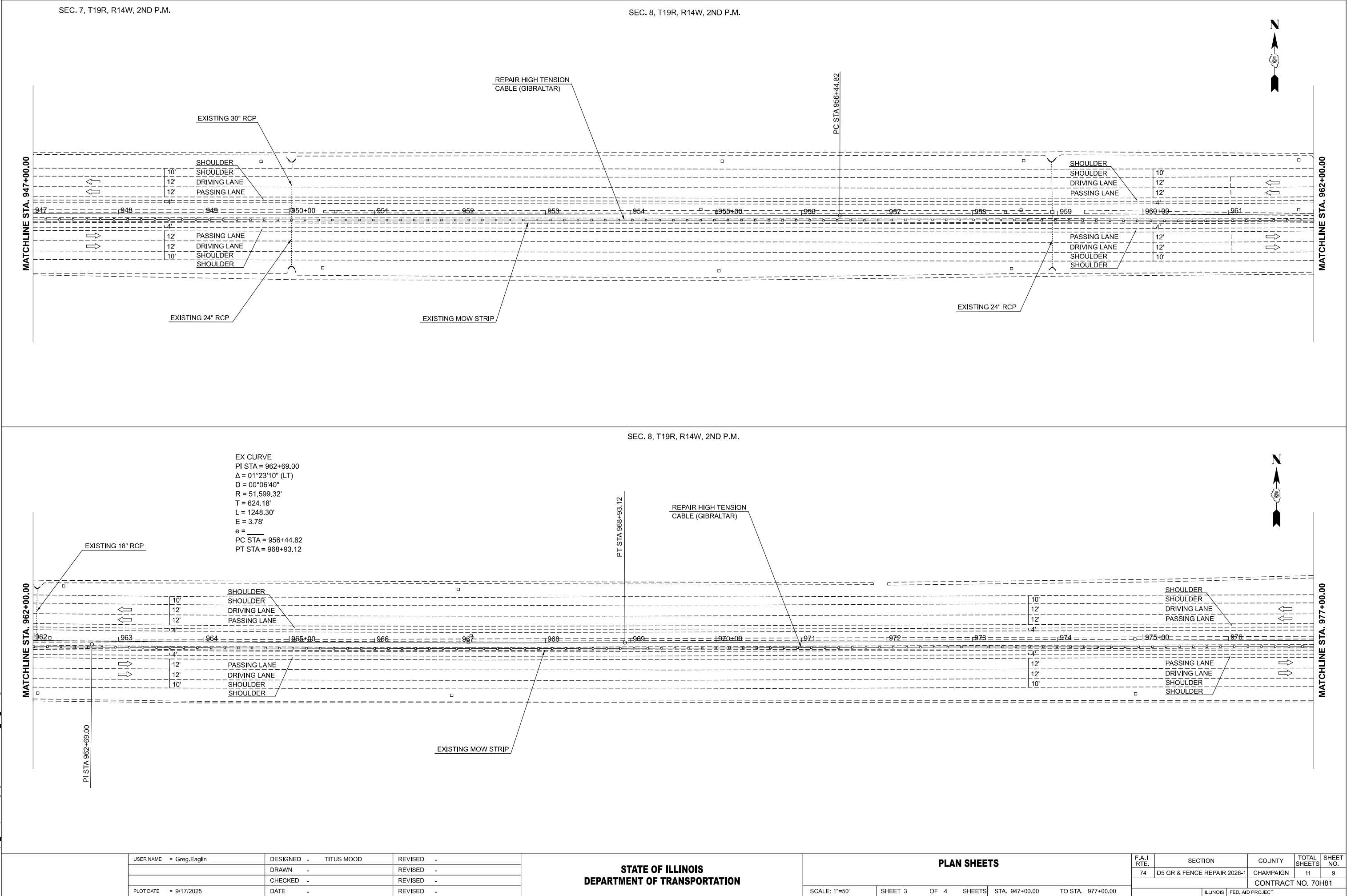
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

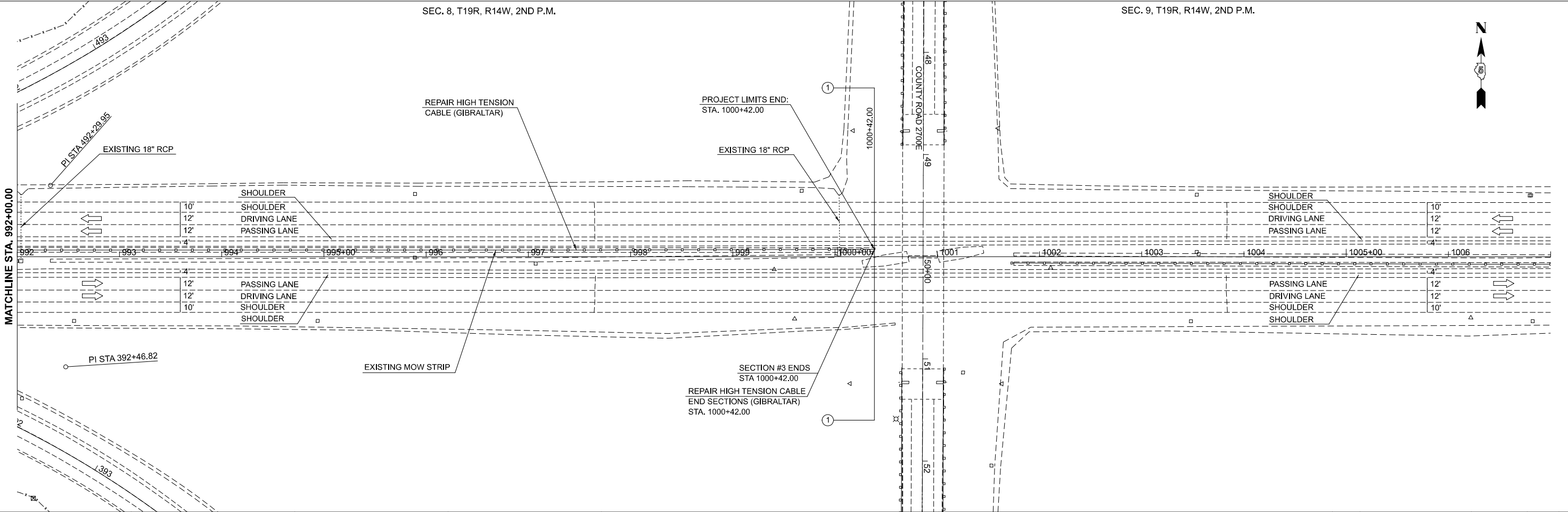
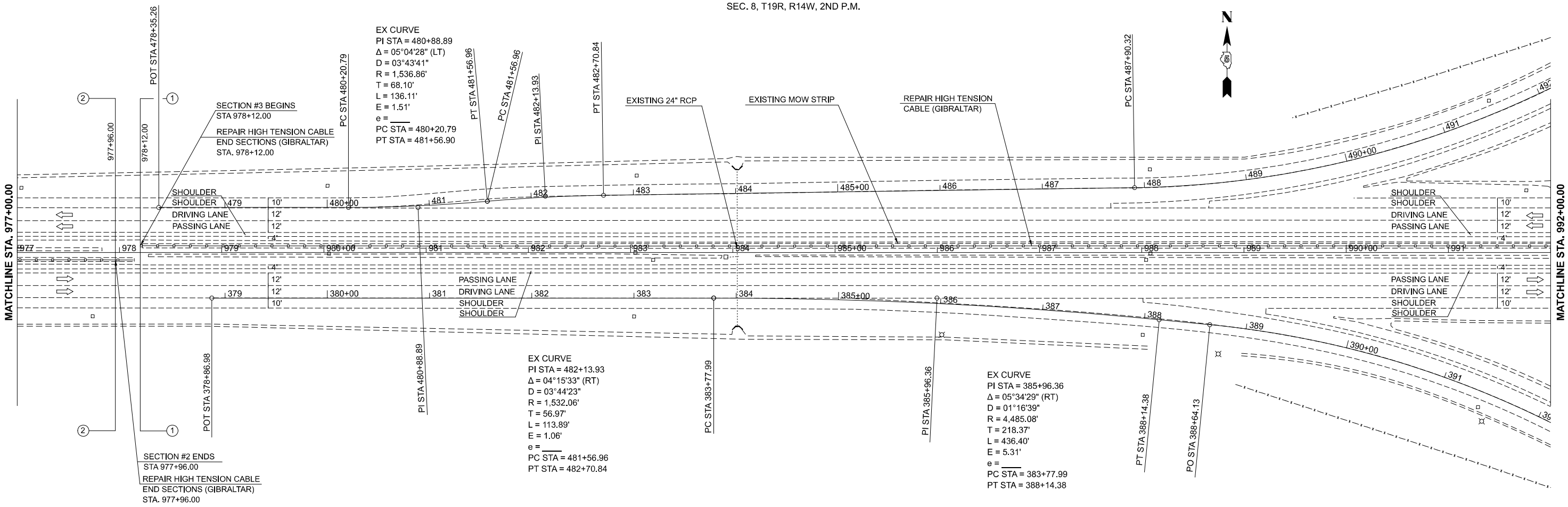
PLAN SHEETS

SCALE: 1"=50'
SHEET 2 OF 4 SHEETS
STA. 917+00.00 TO STA. 947+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	8
CONTRACT NO. 70H81				
		ILLINOIS	FED. AID PROJECT	

MODEL: I74 - Sheet 5
FILE NAME: c:\pwwork\pwwork\eglin\gald117076\0570H81_Sht_Plan.dgn





MODEL: I74-Sheet 7
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USER NAME	Greg.Eaglin			DESIGNED -	TITUS MOOD	REVISED -	
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				CHECKED -		REVISED -	
				DATE -		REVISED -	
PLOT DATE	9/18/2025						

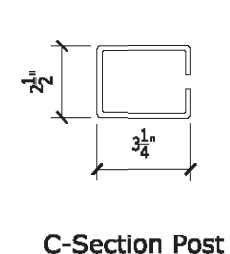
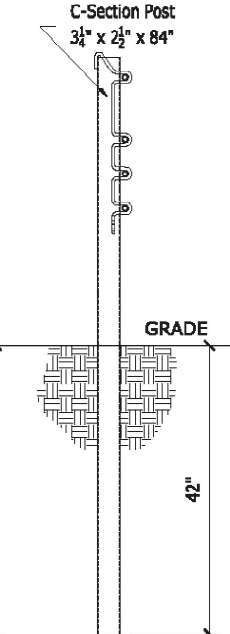
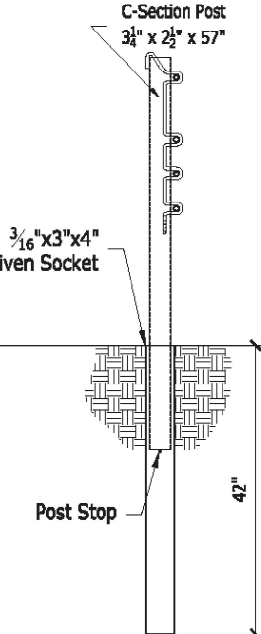
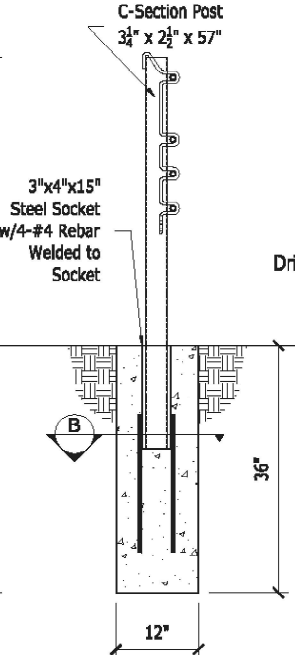
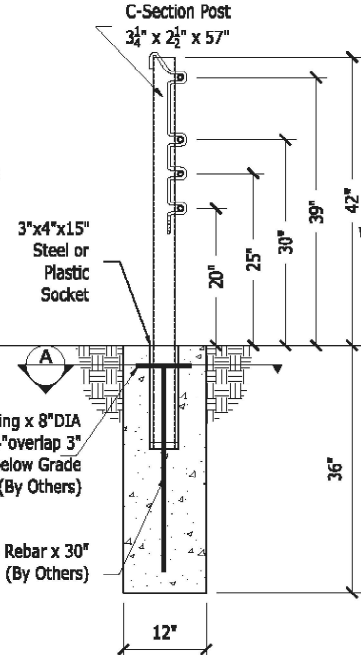
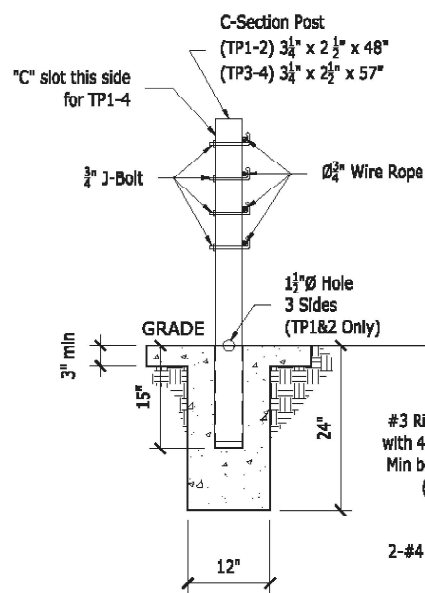
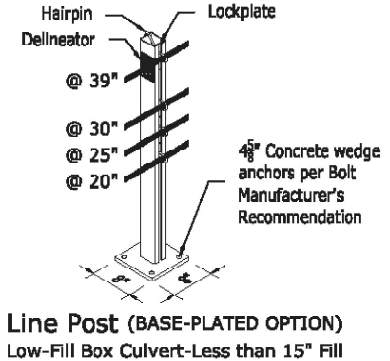
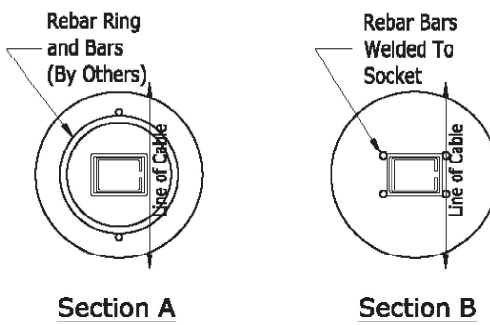
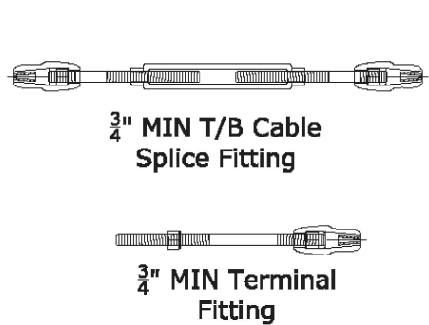
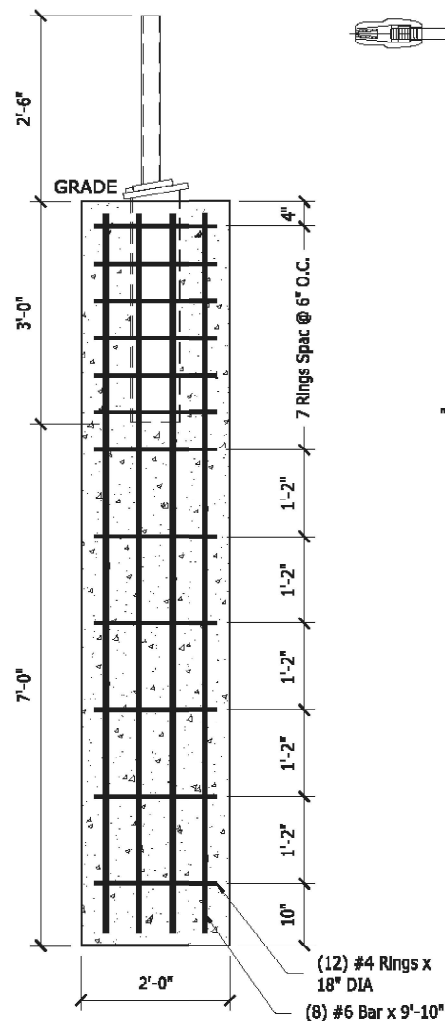
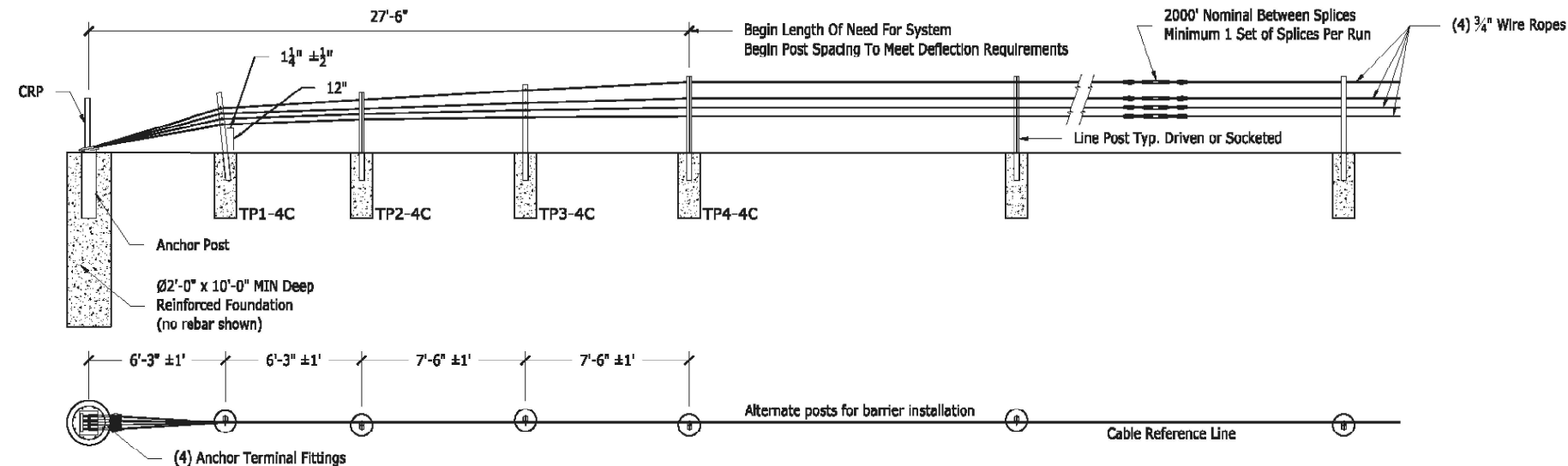
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS

SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. 977+00.00 TO STA. 1007+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	10
CONTRACT NO. 70H81				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



Deflection	
Deflection	Post Spacing
9'-3"	30 FT
9'-0"	28 FT
8'-0"	20 FT
7'-0"	12 FT
6'-8"	10 FT

Cable Tension Chart*	
-10 °F	8000
0 °F	7600
10 °F	7200
20 °F	6800
30 °F	6400
40 °F	6000
50 °F	5600
60 °F	5200
70 °F	4800
80 °F	4400
90 °F	4000
100 °F	3600
110 °F	3200

PROPRIETARY TO GIBRALTAR

TL-4 4 Cable System Layout

Gibraltar Cable Barrier Systems

Scale: **NTS** Date: **10-18-17**

Layout: **ANSI B** Drafter: **BH**

- GENERAL NOTES:**
- For additional information contact Gibraltar, Inc. at 1-833-715-0810 or see the manufacturer's product manual.
 - All concrete shall be per specification; minimum 2500 PSI.
 - The Cable Barrier System shall be installed on shoulders or on medians with slopes of 6:1 or flatter. If installed on slopes steeper than 6:1 up to 4:1 the TL-4 system performs as a TL-3 and Gibraltar must be contacted for various guidelines related to placement.
 - The Cable Barrier System is accepted by the FHWA Test Level - 4.
 - See the specification for delineation.
 - Rock Clause: Where solid rock is encountered:
 - For socketed post, continue digging 12" diameter, 15" deep into rock or the required plan depth, whichever comes first.
 - For driven post, core drill a 4" diameter hole 18" deep into rock or the required plan depth, whichever comes first.
 - For Anchor post, continue digging 24" diameter, 30" deep into rock or the required plan depth, whichever comes first.
 - Tolerances:
 - Linepost = 3" (max) out of plumb, at top
 - Cable height = ±1"
 - Anchor Post ± 5" off of Cable Reference Line
 - The Gibraltar cable barrier system shall be installed in NCHRP Report 350 standard compacted soil. Soil must be well drained.
 - All non-welded rebar by others.
 - Minimum recommended line post foundation.
 - Without mowstrip, 36" Deep x 12" diameter foundations with #3 rebar ring x 8" diameter with two #4 rebar vertical bars 30" long or 30" welded rebar socket.
 - With 4" minimum depth hot mix asphalt, 30" deep x 12" diameter foundations with #3 rebar ring x 8" diameter with two #4 rebar vertical bars 30" long or 30" welded rebar socket.
 - With 3" minimum depth concrete mowstrip, 24" deep x 12" diameter foundations. (No rebar required).
 - Direct drive driven post and driven socket 42" deep.

MODEL: Detail Sheet [Sheet]
FILE NAME: c:\p\work\lwgad\117076\0570H81_Sht_Detail.dgn

USER NAME = Titus.Mood	DESIGNED - TITUS MOOD	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/18/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH TENSION MEDIAN CABLE
BARRIER DETAIL (EXISTING)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR & FENCE REPAIR 2026-1	CHAMPAIGN	11	11
CONTRACT NO. 70H81				
ILLINOIS FED. AID PROJECT				