

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

**FAI 74 ROUTE (I-74)  
SECTION D5 GR 2024-1  
MEDIAN CABLE IMPROVEMENTS  
COUNTY: CHAMPAIGN**

C-95-027-24

EAST OF US 45 TO HIGH CROSS ROAD IN URBANA

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	1
		ILLINOIS	CONTRACT NO. 70H04	

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

CURRENT TRAFFIC DATA				
FAI 74 / (I-74)				
	ADT (2023)	PV %	SU %	MU %
LEG "A"	= 33,600	73.8	4.2	22.0
LEG "B"	= 28,300	66.7	3.4	29.9

TRAFFIC DATA LOCATIONS	
LEG "A"	= I-74 FROM US 45 TO UNIVERSITY AVE
LEG "B"	= I-74 FROM UNIVERSITY AVE TO HIGH CROSS ROAD

FUNCTIONAL CLASSIFICATION  
INTERSTATE

DESIGN DESIGNATION  
NA

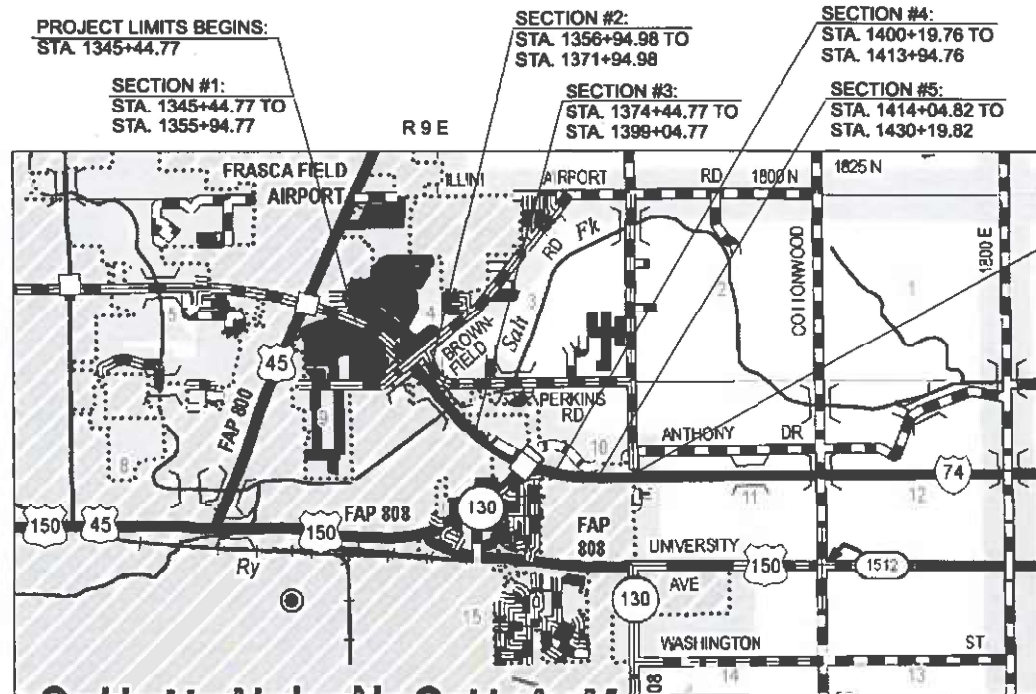
TOWNSHIPS: URBANA, CUNNINGHAM (URBANA)



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  
PROJECT DESIGNER: STEVEN WOOD  
PHONE: (217) 465-4181  
CONTRACT NO. 70H04



GROSS LENGTH = 8,475.05 FT. = 1.605 MILE  
NET LENGTH = 8,475.05 FT. = 1.605 MILE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/07 20 24  
Keril A. Barnett *sw*  
REGIONAL ENGINEER

May 10, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
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 QUANTITIES
9-11	PLAN SHEETS
12	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>
000001-08	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
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

MODEL: Sheet-1 (Sheet)  
FILE NAME: c:\p\work\pww\stevens.wood@illinois.gov\d0917421\0570\H04-Sht-Gennotes.dgn

**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.
74	D5 GR 2024-1	CHAMPAIGN	12	2
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

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

**SUMMARY OF QUANTITIES**

LOCATION OF WORK: FAI 74 / (I-74)  
 URBAN 4 LANE  
 COUNTY: CHAMPAIGN  
 STA. 1345+44.77  
 TO  
 STA. 1430+19.82  
 FUNDING BREAKOUT: 100% STATE

CONSTRUCTION CODE: 0021

CODE NO	ITEM	UNIT	TOTAL QUANTITY
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	150.0
X3110102	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD	53.0
X6440130	REPAIR HIGH TENSION CABLE (GIBALTAR)	FOOT	7,725.0
X6440132	REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBALTAR)	EACH	10.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0

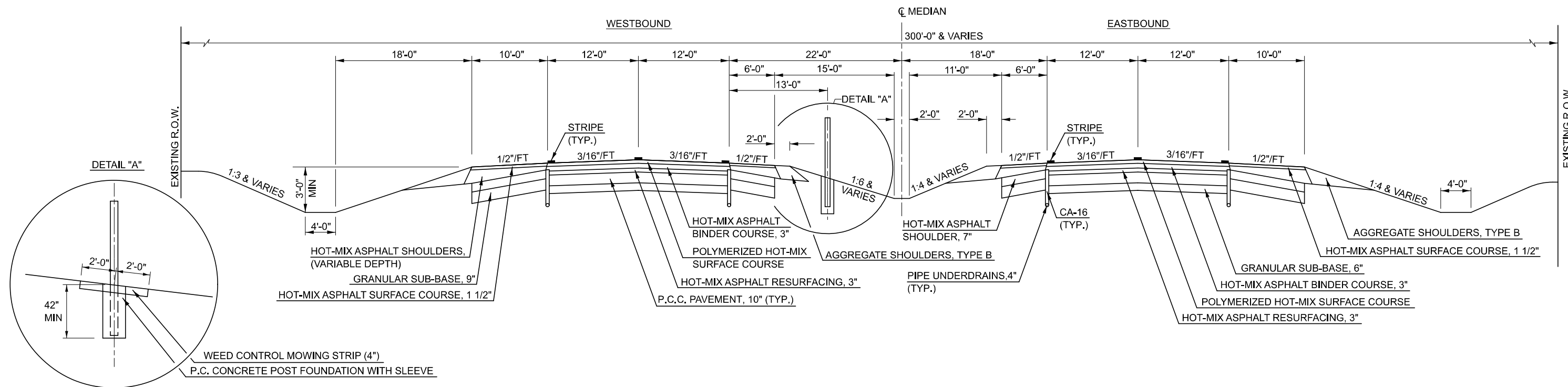
\* SPECIALTY ITEM

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USER NAME = Steven.Wood	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -					74	D5 GR 2024-1	CHAMPAIGN	12	3
PLOT DATE = 2/13/2024	CHECKED -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 70H04				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

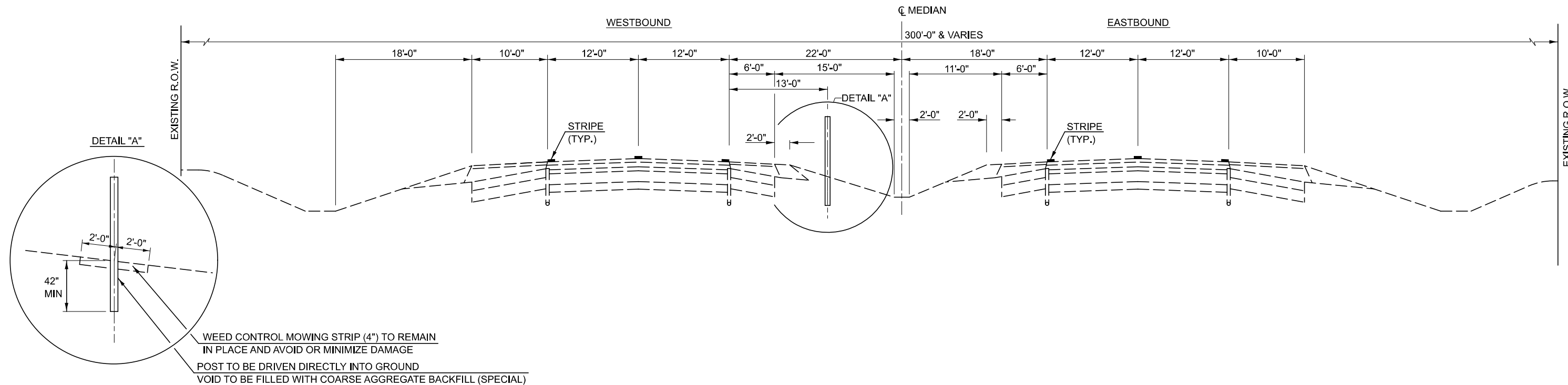
**(A) EXISTING TYPICAL CROSS SECTION**

STATION 1345+50.00 TO STATION 1354+95.07 (B)



**(1) PROPOSED TYPICAL CROSS SECTION**

STATION 1345+00.00 TO STATION 1354+95.07 (2)



MODEL: Typical-1 (Sheet)  
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	DATE -	REVISED -

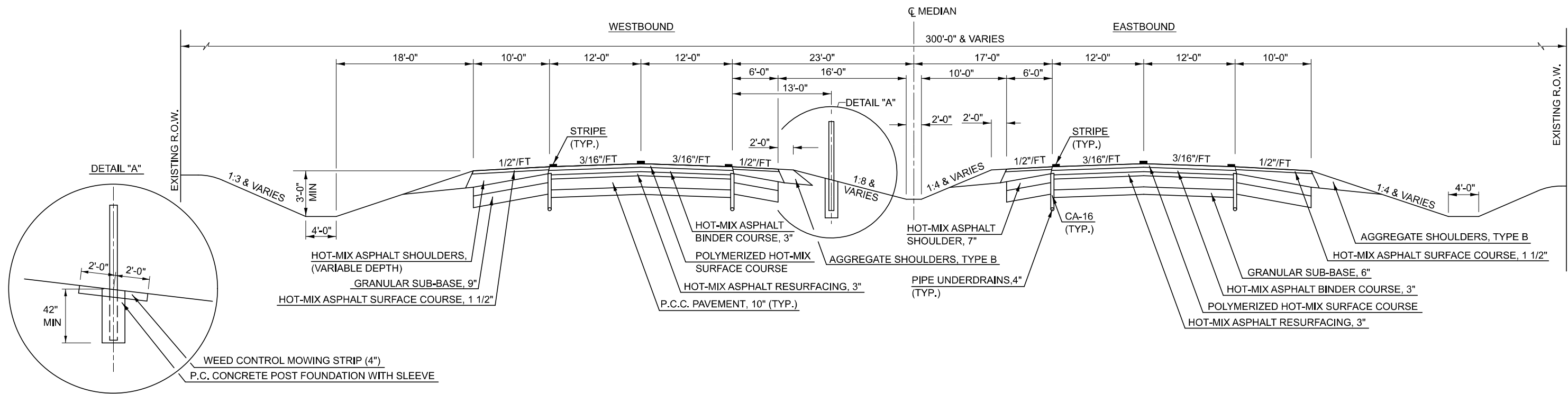
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS**  
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	4
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

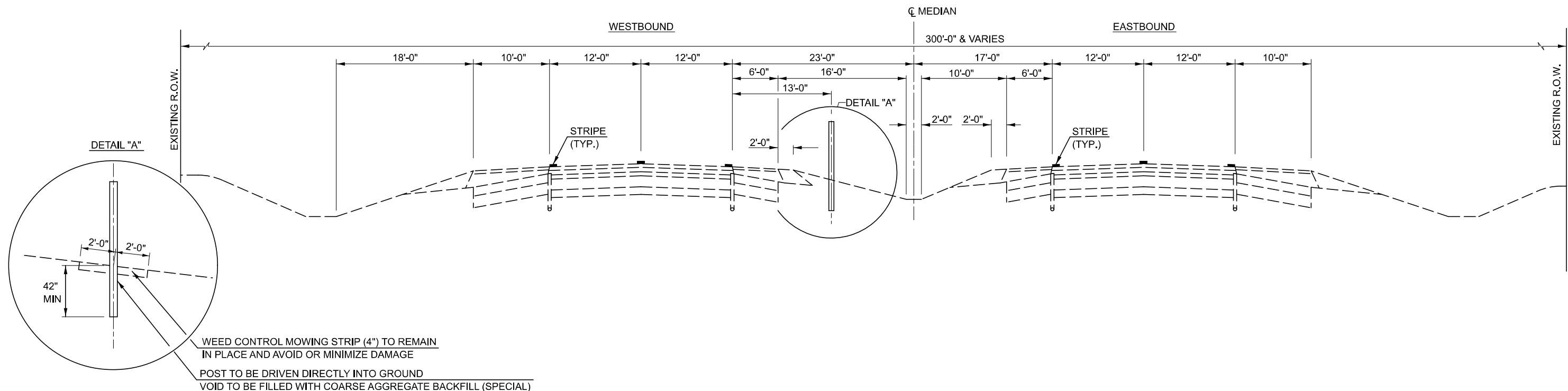
**(B) EXISTING TYPICAL CROSS SECTION**

	STATION	TO	STATION	
(A)	1354+95.07		1372+00.00	(C)
(D)	1414+05.00		1430+25.00	



**(2) PROPOSED TYPICAL CROSS SECTION**

	STATION	TO	STATION	
(1)	1354+95.07		1372+00.00	(3)
(4)	1414+05.00		1430+25.00	



MODEL: Typical-2 (Sheet)  
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 2/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS**

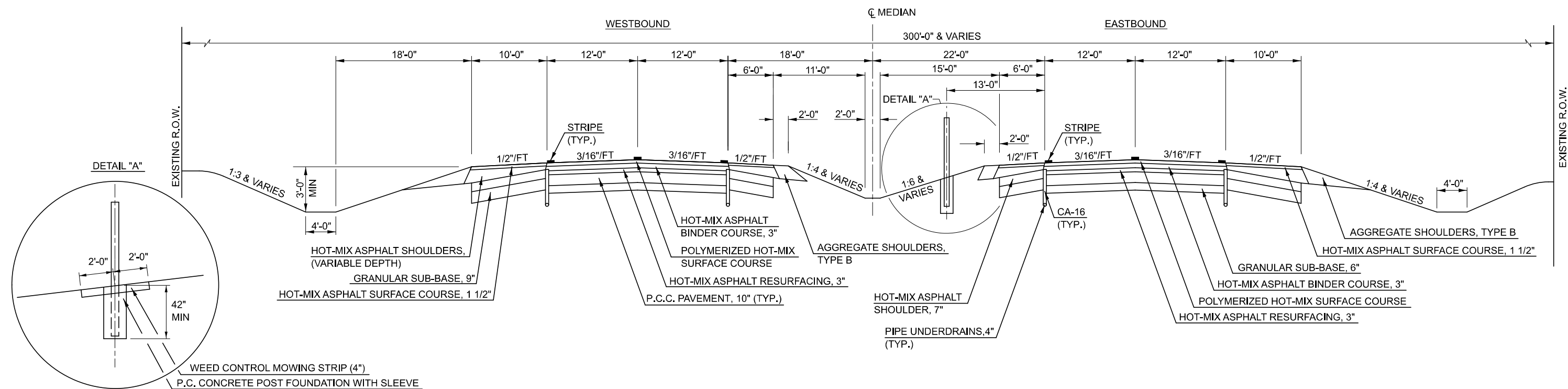
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	5
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

**③ EXISTING TYPICAL CROSS SECTION**

STATION TO STATION  
 ② 1372+00.00 1384+99.37 ④

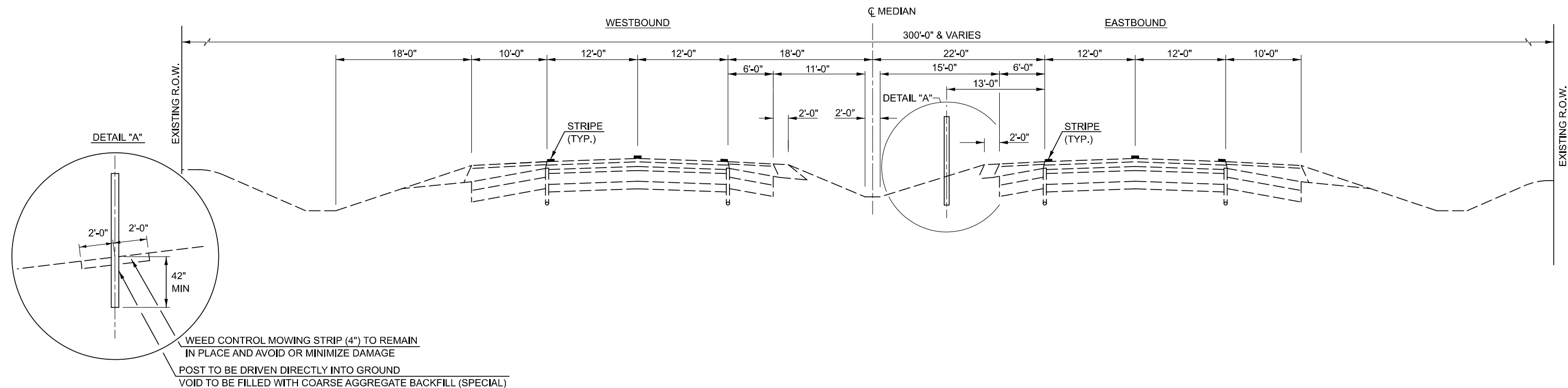
BRIDGE OMISSION:  
 STA. E.B. 1372+04.45 TO STA. 1374+26.36 (S.N. 010-0025)  
 STA. W.B. 1372+21.57 TO STA. 1374+43.88 (S.N. 010-0026)



**③ PROPOSED TYPICAL CROSS SECTION**

STATION TO STATION  
 ② 1372+00.00 1384+99.37 ④

BRIDGE OMISSION:  
 STA. E.B. 1372+04.45 TO STA. 1374+26.36 (S.N. 010-0025)  
 STA. W.B. 1372+21.57 TO STA. 1374+43.88 (S.N. 010-0026)



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PLOT DATE = 2/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

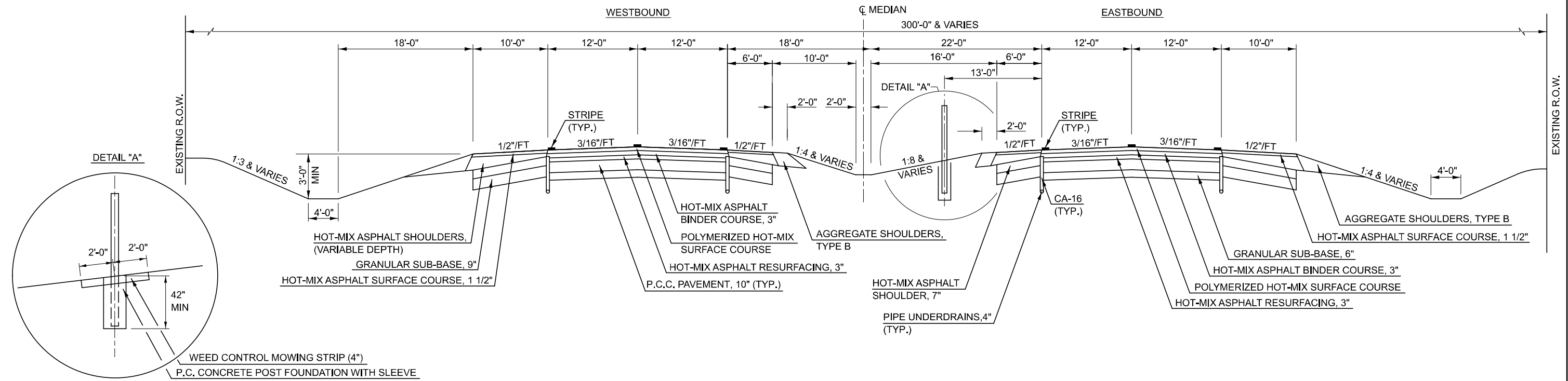
**TYPICAL CROSS SECTIONS**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	6
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

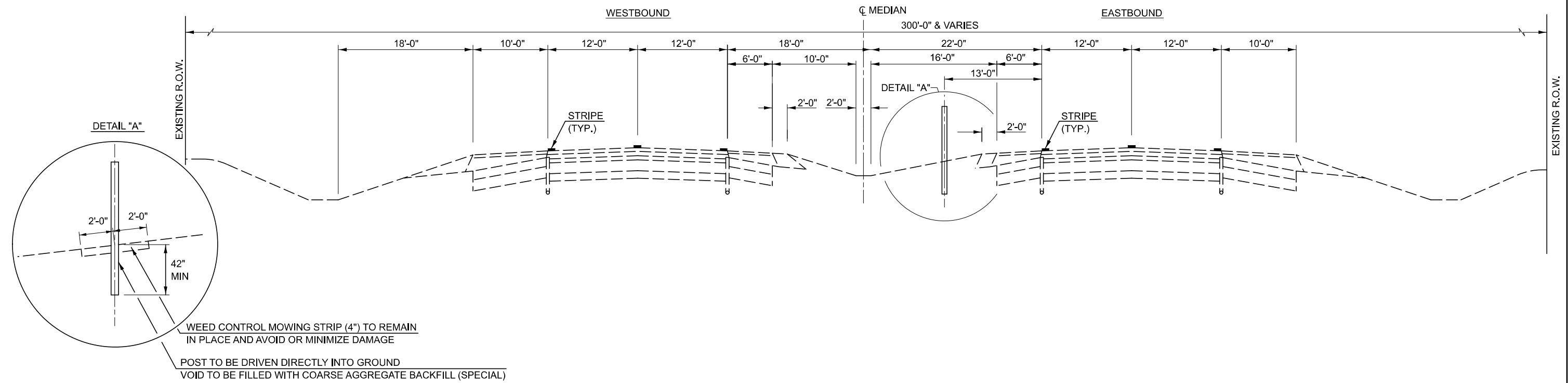
**Ⓓ EXISTING TYPICAL CROSS SECTION**

STATION TO STATION  
 Ⓒ 1384+99.37 1414+05.00 Ⓑ



**Ⓔ PROPOSED TYPICAL CROSS SECTION**

STATION TO STATION  
 Ⓒ 1384+99.37 1414+05.00 Ⓓ



MODEL: Typical-4 (Sheet)  
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PLOT SCALE = 0.16666833' / in.	DRAWN -	REVISED -
PLOT DATE = 2/13/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL CROSS SECTIONS**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	7
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

## SCHEDULE OF QUANTITIES

X6440132 REPAIR HIGH TENSION CABLE SYSTEM END SECTION (GIBRALTAR)

78200021 HIGH TENSION CABLE MEDIAN REFLECTORS

X3110102 COARSE AGGREGATE BACKFILL (SPECIAL)

						X6440130	X6440132	78200021			X3110102
LOCATION						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)
			STATION	TO	STATION	LENGTH (FT)					
MEDIAN	I-74 W.B. PL SECT #1	LT	1345+44.77		1345+72.27	27.50		1.00	4.00		
MEDIAN	I-74 W.B. PL SECT #1	LT	1345+72.27		1355+67.27	995.00	995.00		67.00	0.102	6.82
MEDIAN	I-74 W.B. PL SECT #1	LT	1355+67.27		1355+94.77	27.50		1.00	4.00		
MEDIAN	I-74 W.B. PL SECT #2	LT	1356+94.98		1357+22.48	27.50		1.00	4.00		
MEDIAN	I-74 W.B. PL SECT #2	LT	1357+22.48		1371+67.48	1445.00	1,445.00		97.00	0.102	9.87
MEDIAN	I-74 W.B. PL SECT #2	LT	1371+67.48		1371+94.98	27.50		1.00	4.00		
MEDIAN	I-74 E.B. PL SECT #3	RT	1374+44.77		1374+72.27	27.50		1.00	4.00		
MEDIAN	I-74 E.B. PL SECT #3	RT	1374+72.27		1398+77.27	2405.00	2,405.00		161.00	0.102	16.38
MEDIAN	I-74 E.B. PL SECT #3	RT	1398+77.27		1399+04.77	27.50		1.00	4.00		
MEDIAN	I-74 E.B. PL SECT #4	RT	1400+19.76		1400+47.26	27.50		1.00	4.00		
MEDIAN	I-74 E.B. PL SECT #4	RT	1400+47.26		1413+67.26	1320.00	1,320.00		88.00	0.102	8.95
MEDIAN	I-74 E.B. PL SECT #4	RT	1413+67.26		1413+94.76	27.50		1.00	4.00		
MEDIAN	I-74 W.B. PL SECT #5	LT	1414+04.82		1414+32.32	27.50		1.00	4.00		
MEDIAN	I-74 W.B. PL SECT #5	LT	1414+32.32		1429+92.32	1560.00	1,560.00		104.00	0.102	10.58
MEDIAN	I-74 W.B. PL SECT #5	LT	1429+92.32		1430+19.82	27.50		1.00	4.00		
TOTAL =						7,725.00	10.00	150.00	557.00		52.61
USE =						7,725.00	10.00	150.00	557.00		53.00
						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.

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	DRAWN -	REVISED -
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PLOT DATE = 12/12/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

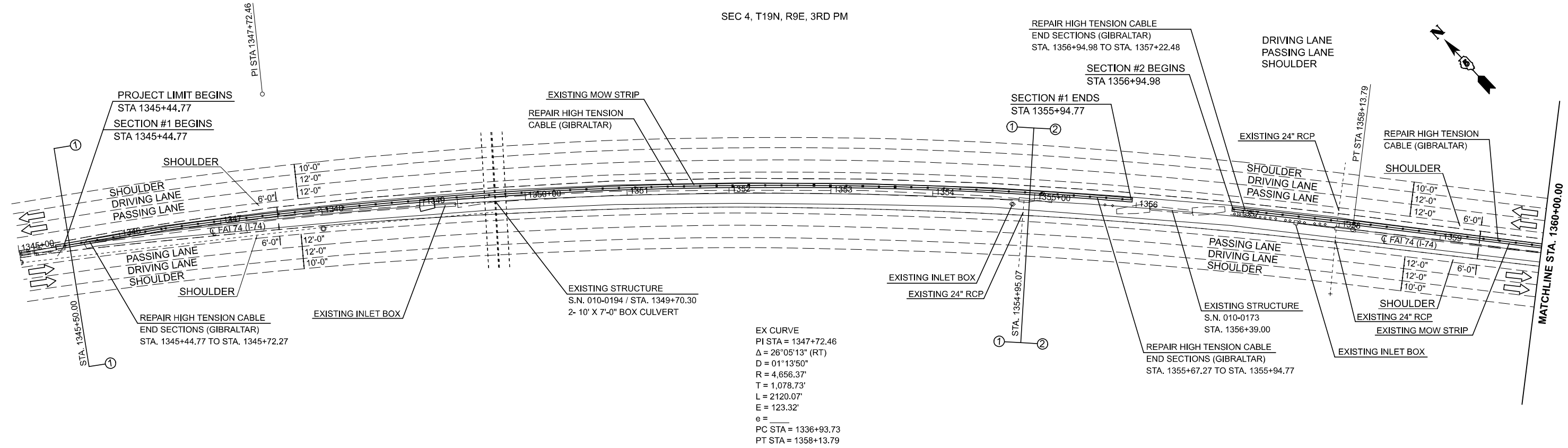
### SCHEDULE OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	8
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

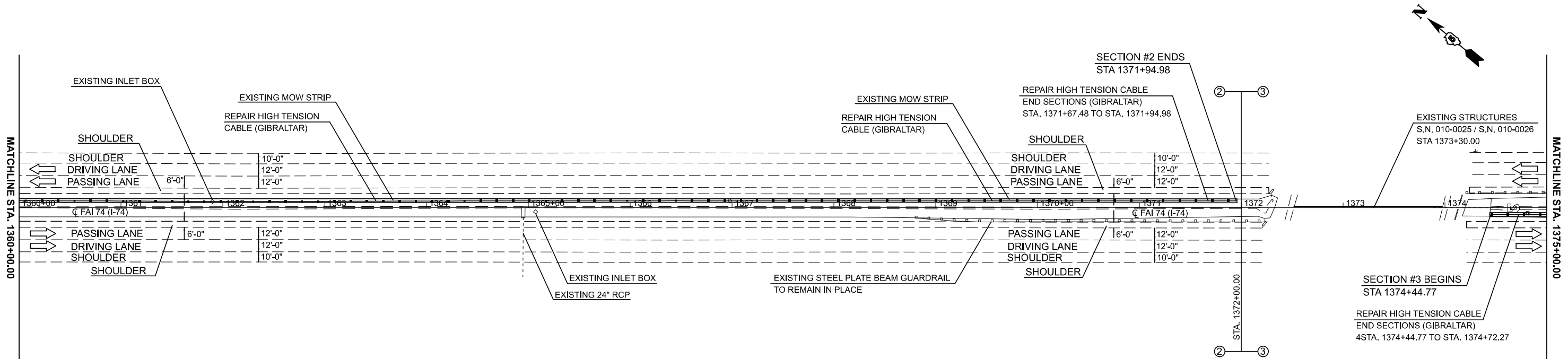


SEC 4, T19N, R9E, 3RD PM



EX CURVE  
 PI STA = 1347+72.46  
 $\Delta = 26^{\circ}05'13''$  (RT)  
 $D = 01^{\circ}13'50''$   
 $R = 4,656.37'$   
 $T = 1,078.73'$   
 $L = 2120.07'$   
 $E = 123.32'$   
 $e =$   
 PC STA = 1336+93.73  
 PT STA = 1358+13.79

SEC 10, T19N, R9E, 3RD PM



MODEL: I74 - Plan 1 (Sheet)  
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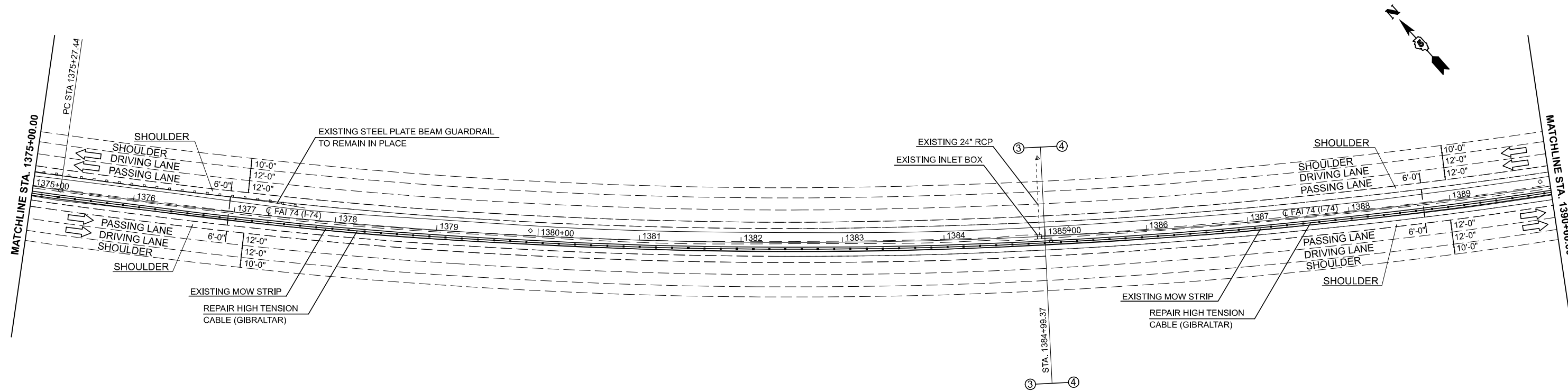
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET**

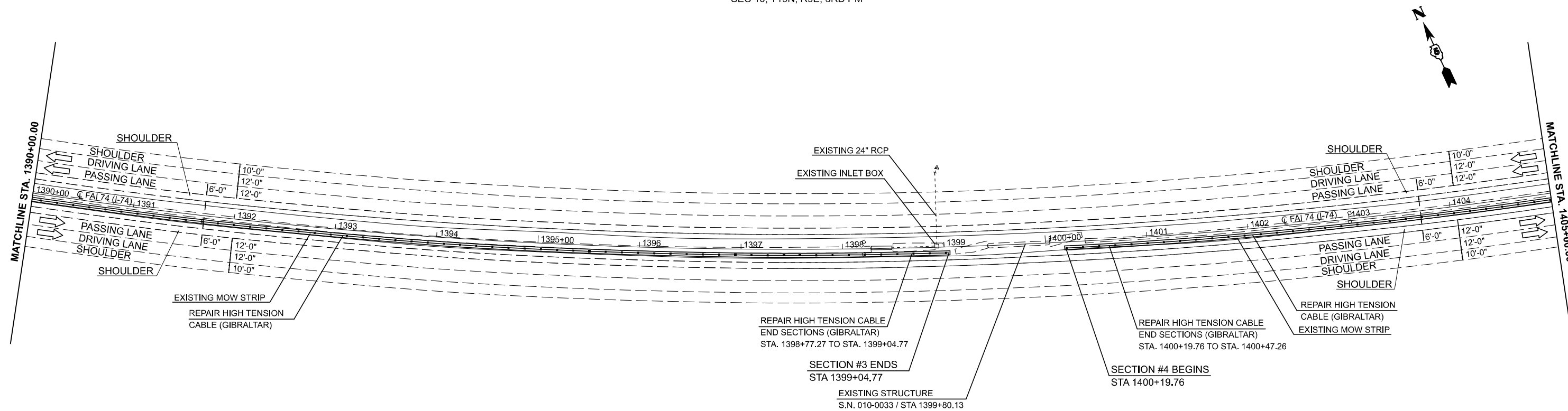
SCALE: 1"=50'      SHEET 1 OF 3 SHEETS      STA. 1345+00.00 TO STA. 1375+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	9
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

SEC 10, T19N, R9E, 3RD PM



SEC 10, T19N, R9E, 3RD PM



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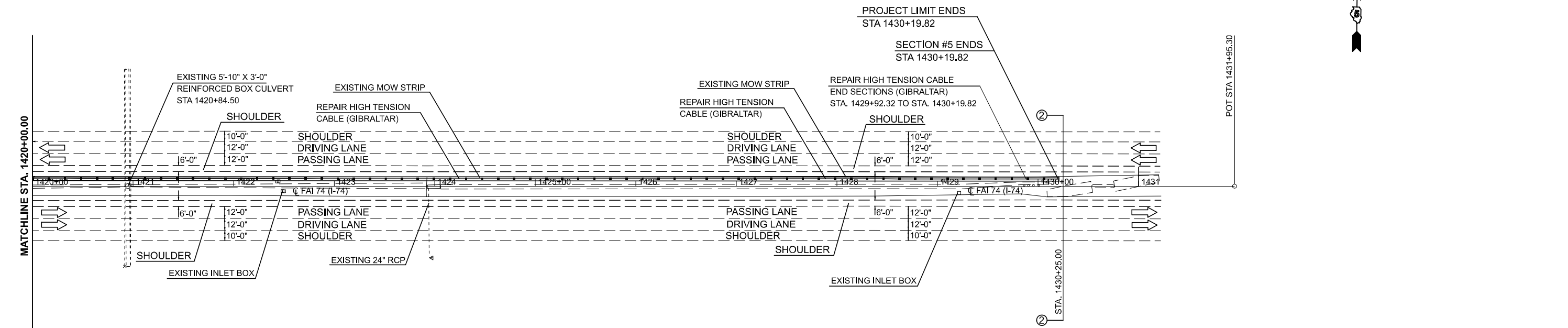
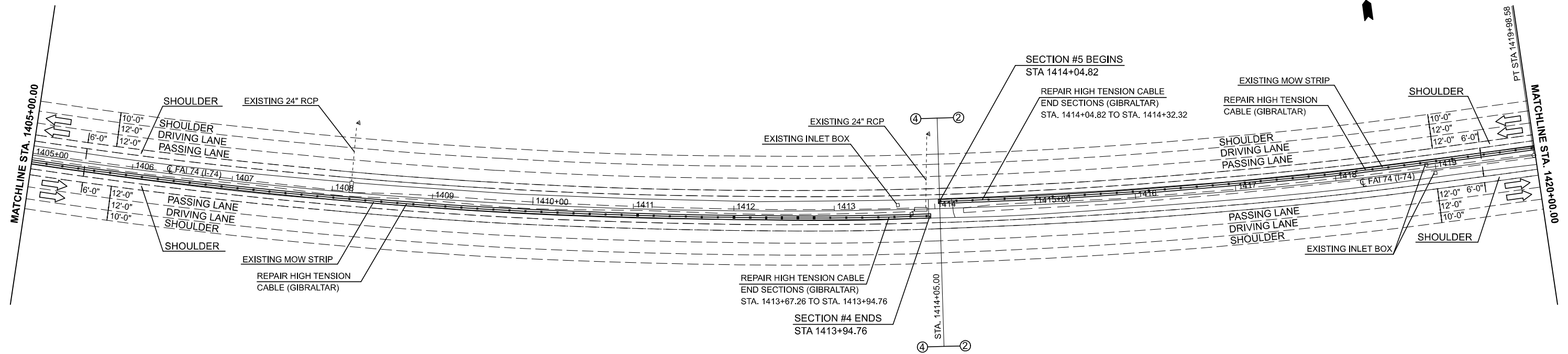
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PLOT DATE = 2/2/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 1375+00.00 TO STA. 1405+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	10
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				



MODEL: I74 - Plan 5 (Sheet)  
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PLOT DATE = 2/2/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

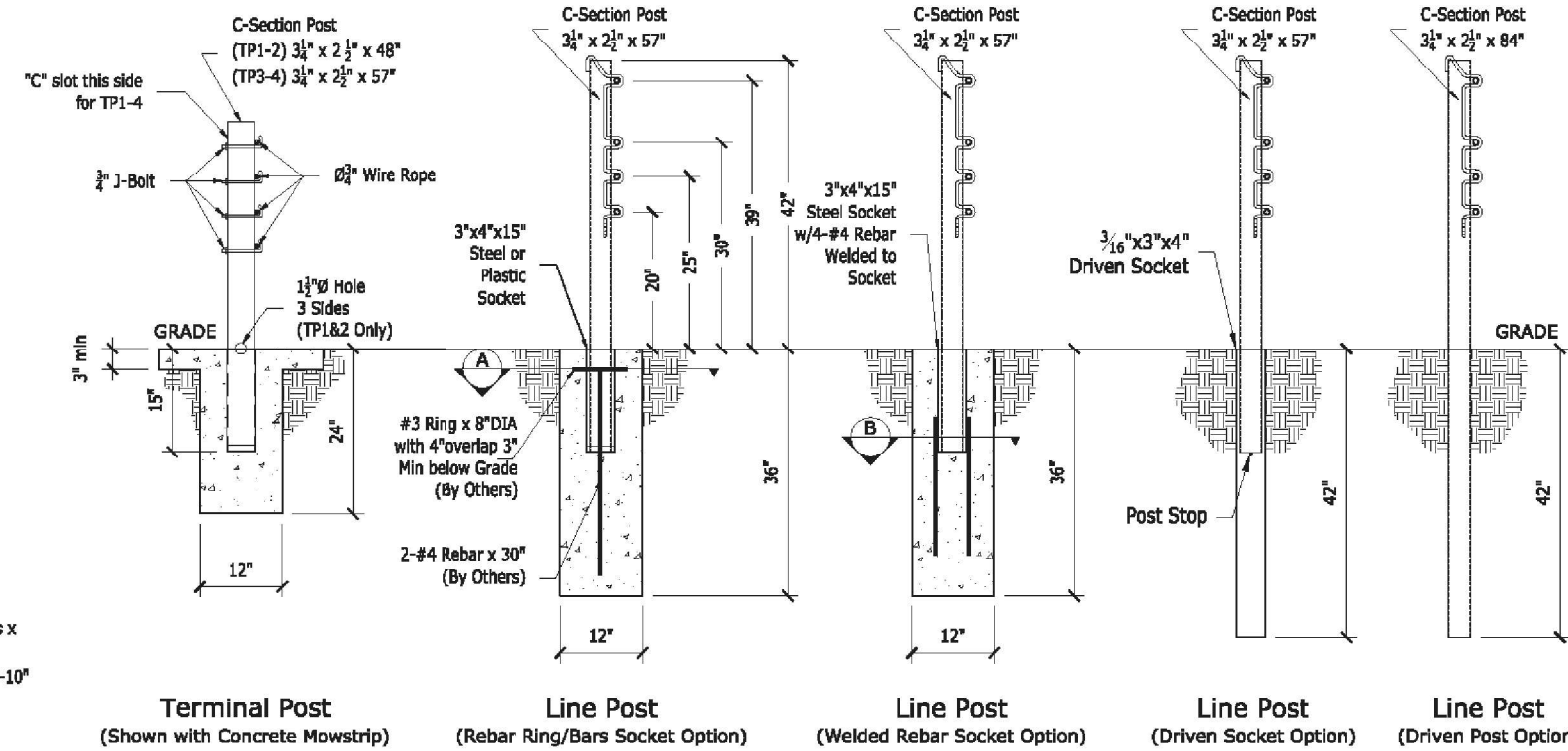
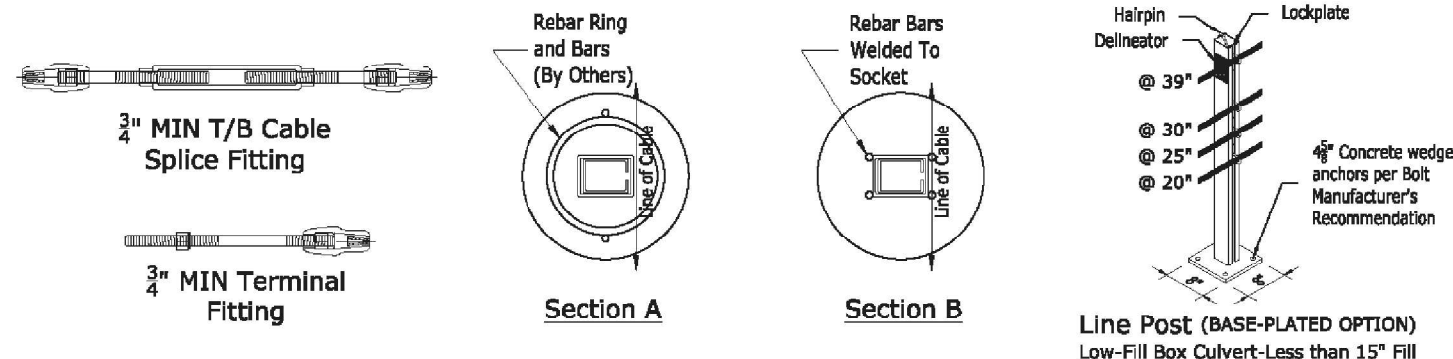
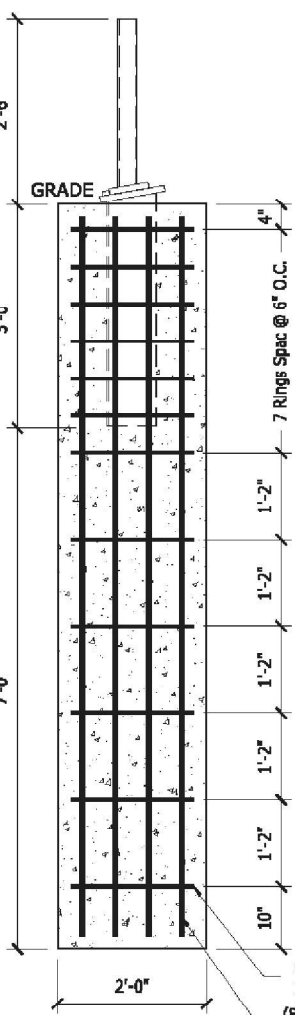
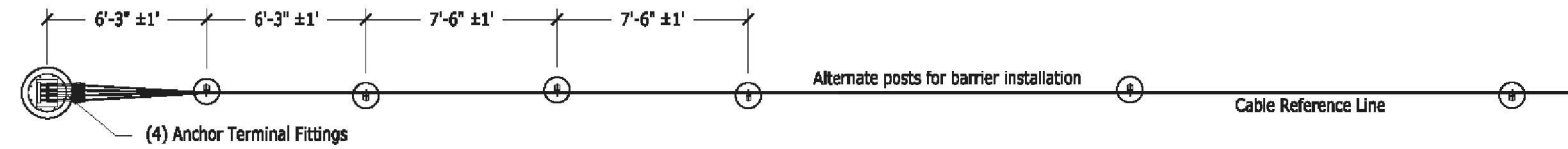
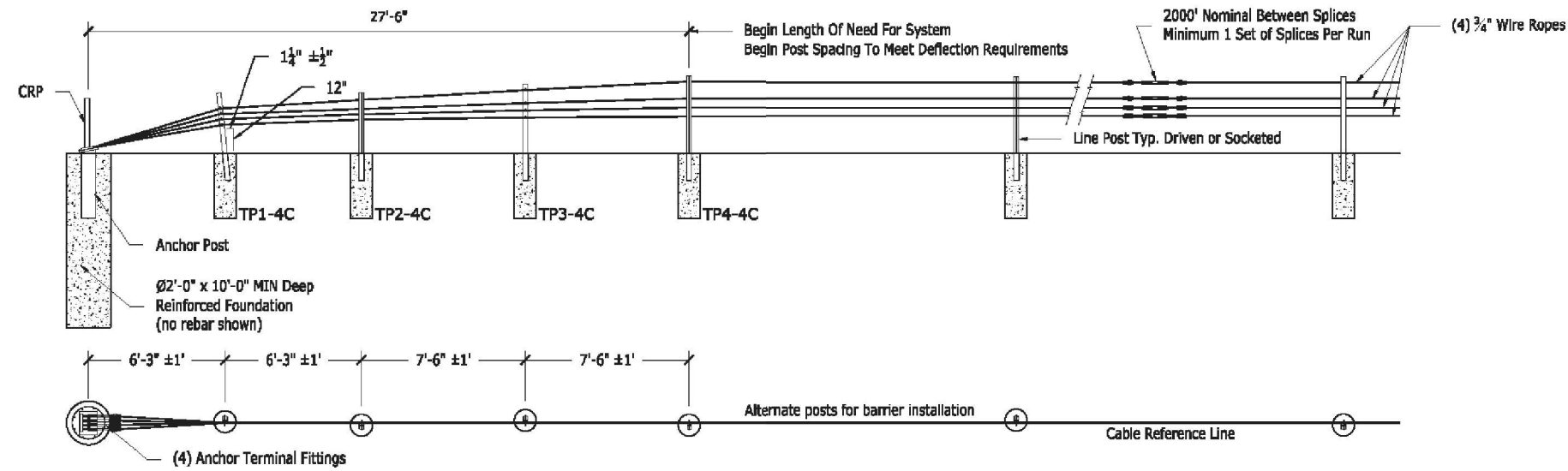
**PLAN SHEETS**

SCALE: 1"=50'      SHEET 3      OF 3      SHEETS      STA. 1405+00.00      TO STA. 1431+21.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	D5 GR 2024-1	CHAMPAIGN	12	11
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				

**FOR INFORMATION ONLY**

Sheet: <b>01 OF 01</b>	Rev: <b>11</b>	Rev Date: <b>10-18-17</b>	Approver: <b>BH</b>
Job # <b>XXX</b>	Gibraltar Job # <b>XXX</b>	County: <b>XXX</b>	<b>##/##/##</b>



-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

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

**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: HTC Detail (Sheet) FILE NAME: c:\p\work\stevenson.wood\illinois\p017421\05\04-SH4-HTC-Detail.dgn

USER NAME = Steven.Wood	DESIGNED -	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN -	REVISED -
PLOT DATE = 12/12/2023	CHECKED -	REVISED -
	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 2024-1	CHAMPAIGN	12	12
CONTRACT NO. 70H04				
ILLINOIS FED. AID PROJECT				