

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	1
		ILLINOIS	CONTRACT NO. 72M79	

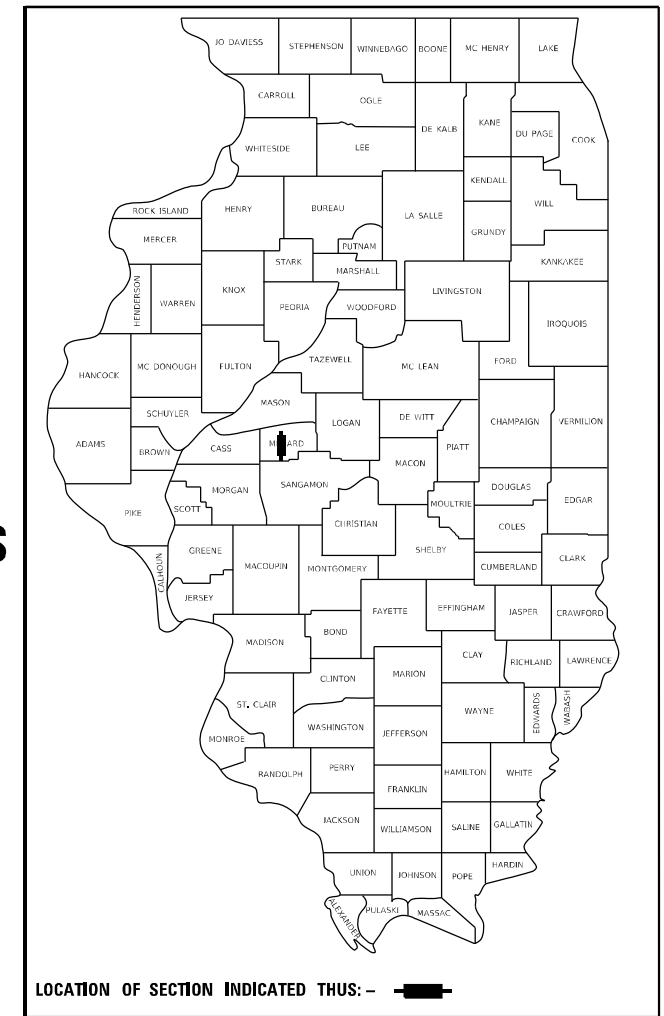
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAP ROUTE 34 IL 97/L 123  
SECTION 101RS-12,CLV,I-1  
PROJECT STP-5M55(054)  
STANDARD OVERLAY & CULVERT IMPROVEMENTS  
MENARD COUNTY



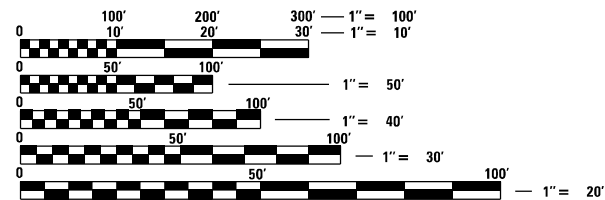
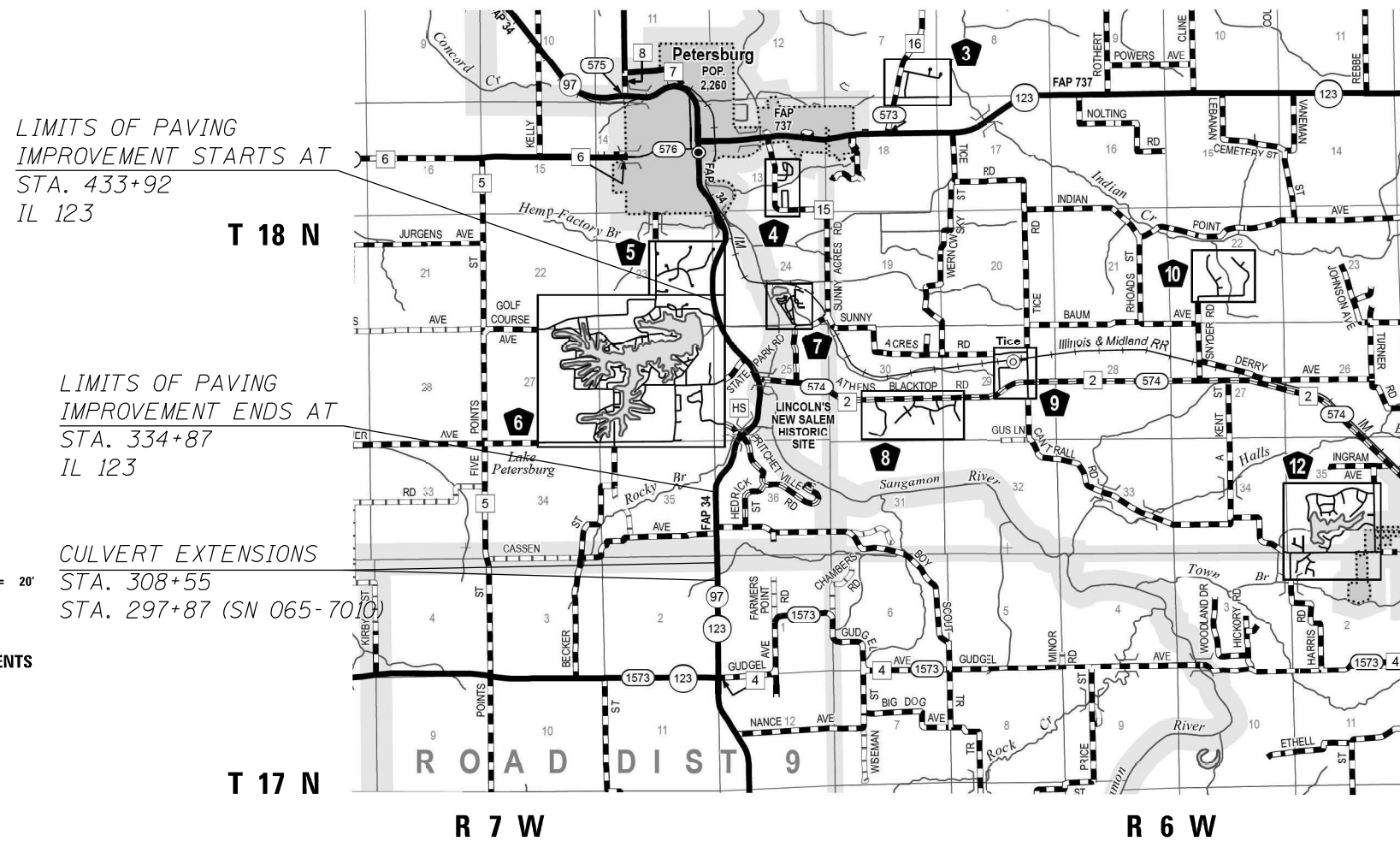
D-96-031-21



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

FAP 34 (IL 97/IL 123)  
ADT-4,566 (2019)  
CLASSIFICATION - MINOR ARTERIAL)  
PV= 90.60%  
SV= 7.10%  
MU= 2.30%

C-96-050-21



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: JAY EDWARDS (217) 785-0597  
PROJECT MANAGER: JON COX (217) 782-1378

GROSS LENGTH = 9,905 FT. = 1.88 MILE  
NET LENGTH = 9,905 FT. = 1.88 MILE

CONTRACT NO. 72M79

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 25, 2023  
*Jay P. Myers*  
REGIONAL ENGINEER  
December 8, 2023  
*Steph M. Smith*  
ENGINEER OF DESIGN AND ENVIRONMENT  
December 8, 2023  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



PPS# 6-00691-0000

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005 RURAL	BOX CULVERT 0004 SN 065-7010
20100500	TREE REMOVAL, ACRES	ACRE	1	0.75	0.25
20200100	EARTH EXCAVATION	CU YD	818	498	320
20400800	FURNISHED EXCAVATION	CU YD	2205	1780	425
20800150	TRENCH BACKFILL	CU YD	241	241	
21400100	GRADING AND SHAPING DITCHES	FOOT	1575	975	600
25000200	SEEDING, CLASS 2	ACRE	2.0	1.6	0.4
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	110.0	71.7	38.3
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110.0	71.7	38.3
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	110.0	71.7	38.3
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.1	2.2	0.9
25100115	MULCH, METHOD 2	ACRE	2.0	1.6	0.4
28000305	TEMPORARY DITCH CHECKS	FOOT	110	50	60
28000400	PERIMETER EROSION BARRIER	FOOT	1129	711	418

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005 RURAL	BOX CULVERT 0004 SN 065-7010
28000500	INLET AND PIPE PROTECTION	EACH	14	13	1
28100105	STONE RIPRAP, CLASS A3	SQ YD	871	871	
28100107	STONE RIPRAP, CLASS A4	SQ YD	647	617	30
28200200	FILTER FABRIC	SQ YD	1518	1488	30
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	32	32	
35800100	PREPARATION OF BASE	SQ YD	24	24	
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	2	2	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24329	24329	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	9926	9926	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	4013	4013	
40600990	TEMPORARY RAMP	SQ YD	439	439	
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	2166	2166	
40604150	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	2600	2600	
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1806	1806	

MODEL: P:\default...  
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 PROJECT: D:\DOT...  
 OFFICE: D:\DOT...  
 USER: jonathan.cox

REV. - MS

USER NAME = jonathan.cox DESIGNED - DRAWN - PLOT SCALE = 100,0000' / in. CHECKED - PLOT DATE = 8/23/2023 DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 34 101RS-12,CLV,I-1 MENARD 121 3 CONTRACT NO. 72M79 ILLINOIS FED. AID PROJECT
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005	BOX CULVERT 0004
				RURAL	SN 065-7010
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	617	617	
44000100	PAVEMENT REMOVAL	SQ YD	158	158	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	34924	34924	
44000400	GUTTER REMOVAL	FOOT	3757	3757	
44004250	PAVED SHOULDER REMOVAL	SQ YD	109	109	
44201377	CLASS C PATCHES, TYPE II, 12 INCH	SQ YD	13	13	
44201381	CLASS C PATCHES, TYPE III, 12 INCH	SQ YD	40	40	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	302	302	
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	3070	3070	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	926	926	
50102400	CONCRETE REMOVAL	CU YD	25.4	7.7	17.7
50105220	PIPE CULVERT REMOVAL	FOOT	43		43
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	26		26

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005	BOX CULVERT 0004
				RURAL	SN 065-7010
50800105	REINFORCEMENT BARS	POUND	11,140	1800	9,340
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	120	120	
51500100	NAME PLATES	EACH	1		1
52200010	TEMPORARY SHEET PILING	SQ FT	1140	1140	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1023	234	789
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1	1	
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2	2	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	24	24	
54003000	CONCRETE BOX CULVERTS	CU YD	65.8	10	55.8
54010303	PRECAST CONCRETE BOX CULVERTS 3'X3'	FOOT	32	32	
542D0213	PIPE CULVERTS, CLASS D, TYPE 1 8"	FOOT	43		43
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	20	20	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	

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REV. - MS

USER NAME = Jonathan.Cox	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -					34	101RS-12,CLV,I-1	MENARD	121	4
PLOT DATE = 8/18/2023	CHECKED -	REVISED -		SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 72M79				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005	BOX CULVERT 0004
				RURAL	SN 065-7010
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4	4	
54248510	CONCRETE COLLAR	CU YD	1.2	1.2	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	800	800	
550A0410	STORMSEWERS, CLASS A, TYPE 2 24"	FOOT	130	130	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	369	369	
550A4800	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 18"	FOOT	200	200	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	69	38	31
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60235610	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	EACH	2	2	
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	
60240303	INLETS, TYPE B, TYPE 9 FRAME AND GRATE	EACH	5	5	
60500060	REMOVING INLETS	EACH	3	3	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	13	13	
60602500	CONCRETE GUTTER, TYPE A	FOOT	888	888	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0005	BOX CULVERT 0004
				RURAL	SN 065-7010
60602800	CONCRETE GUTTER, TYPE B	FOOT	2869	2869	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1225	1225	
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1300	1300	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	12	
63200310	GUARDRAIL REMOVAL	FOOT	3749	3253	496
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	6701	6701	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	11	1
67100100	MOBILIZATION	L SUM	1	0.9	0.1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.9	0.1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	

\* SPECIALTY ITEM

REV. - MS

MODEL: D:\default...  
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 PROJECT: ...

USER NAME = Jonathan.Cox	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV.I-1	MENARD	121	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	



				20100500
LOCATION				TREE REMOVAL
FAP 34 (IL 97, IL 123)		SIDE	ACRES	
296+00.00	TO	298+50.00	RT/LT	0.1
307+00.00	TO	310+00.00	RT/LT	0.05
346+00.00	TO	353+00.00	RT	0.55
346+70.00	TO	347+17.00	LT	0.02
371+25.00	TO	372+75.00	RT/LT	0.1
377+00.00	TO	378+00.00	LT	0.05
424+75.00	TO	425+50.00	RT/LT	0.05
TOTAL				0.92

				20200100			20400800
LOCATION				EARTH EXCAVATION	SHRINKAGE FACTOR	EMBANKMENT	FURNISHED EXCAVATION
FAP 34 (IL 97, 123)				CU YD	CU YD	CU YD	CU YD
296+00.00	TO	300+50.00		319.72	239.79	664.26	-424.5
307+50.00	TO	310+00.00		267.16	200.37	459.19	-258.8
337+36.00	TO	358+25.00		167.51	125.63	986.02	-860.4
377+00.00	TO	396+00.00		54.67	41.00	622.74	-581.7
10+40.00	TO	10+80.00		9.26	6.95	12.79	-5.8
346+64.00	TO	347+00.00		0.00	0.00	72.87	-72.9
TOTAL				818	614	2818	-2204

				21400100
LOCATION				GRADING & SHAPING DITCHES
FAP 34 (IL 97, IL 123)		SIDE	FOOT	
296+00.00	TO	298+50.00	LT	250.0
297+00.00	TO	300+50.00	RT	350.0
307+00.00	TO	310+00.00	LT	300.0
307+75.00	TO	310+00.00	RT	225.0
345+00.00	TO	346+00.00	LT	100.0
363+50.00	TO	367+00.00	RT/LT	350.0
TOTAL				1575

				25000200	25100115	25000400	25000500	25000600	25000700
LOCATION				SEEDING, CLASS 2	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHEROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIME/STONE
FAP 34 (IL 97, IL 123)		SIDE	AREA	ACRE	ACRE	POUND	POUND	POUND	TON
296+00.00	TO	298+50.00	LT	7691.69	0.18	0.18	15.89	15.89	0.35
297+00.00	TO	300+50.00	RT	10849.46	0.25	0.25	22.42	22.42	0.50
307+00.00	TO	310+00.00	LT	8073.24	0.19	0.19	16.68	16.68	0.37
307+75.00	TO	310+00.00	RT	4645.57	0.11	0.11	9.60	9.60	0.21
338+00.00	TO	348+00.00	RT	4800.00	0.11	0.11	9.92	9.92	0.22
346+64.00	TO	351+00.00	RT/LT	13080.00	0.30	0.30	27.02	27.02	0.60
351+50.00	TO	358+00.00	LT	3900.00	0.09	0.09	8.06	8.06	0.18
377+00.00	TO	385+00.00	LT	4800.00	0.11	0.11	9.92	9.92	0.22
385+00.00	TO	390+00.00	RT/LT	6400.00	0.15	0.15	13.22	13.22	0.29
390+00.00	TO	395+00.00	LT	5500.00	0.13	0.13	11.36	11.36	0.25
TOTAL				2	2	110	110	110	3

				28000305	28000400	28000500
LOCATION				TEMP DITCH CHECKS	PRINTER EROSION BARRIER	INLET & PIPE PROTECT
FAP 614 (IL 78)		SIDE	FOOT	FOOT	EACH	
296+00.00	TO	297+48.00	LT		148.00	
296+50.00			LT	10		
296+84.00			LT	10		
297+18.00			LT	10		
297+64.77			LT			1
297+69.00	TO	298+50.00	LT		81.00	
297+77.00			RT	10		
299+50.00	TO	300+39.00	LT		89.00	
299+73.50			RT	10		
299+99.50			RT	10		
307+72.00	TO	308+22.00	LT		50.00	
308+00.00	TO	308+50.00	RT		50.00	
308+03.00			LT	10		
308+36.00			LT			1
308+39.00	TO	310+00.00	LT		161.00	
308+84.00			LT	10		
309+00.00	TO	309+50.00	RT		50.00	
345+50.00			RT			1
346+64.13						2
347+50.00			RT			1
348+00.00	TO	353+00.00	RT		500.00	
348+50.00			RT	10		
349+50.00			RT	10		
350+50.00			RT	10		
351+50.00			RT			1
352+00.00			RT			1
353+00.00			RT			1
379+00.00			LT			1
381+00.00			LT			1
383+00.00			LT			1
385+00.00			LT			1
387+00.00			LT			1
TOTAL				110	1129	14

				X4811900	28100105	28100107	28200200
LOCATION				AGGREGATE SHOULDERS (SPECIAL)	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC
FAP 34 (IL 97, IL 123)		SIDE	TON	SQ YD	SQ YD	SQ YD	SQ YD
297+87.00	TO	297+87.00	LT			15	15
297+87.00	TO	297+87.00	RT			15	15
308+55.00	TO	308+55.00	LT			15	15
308+55.00	TO	308+55.00	RT			15	15
346+64.13 7' X 10' PAD		RT		8			8
346+70.00	TO	347+17.00	LT		84		84
348+00.00	TO	351+50.00	RT		754	542	1296
351+00.00 3' X 10' PAD		LT		4			4
353+00.00 7' X 6' PAD		LT		5			5
354+00.00 3' X 10' PAD		LT		4			4
371+50.00	TO	371+50.00	LT			15	15
371+50.00	TO	371+50.00	RT			15	15
377+00.00 3' X 10' PAD		LT		4			4
378+00.00 3' X 10' PAD		LT		4			4
386+00.00	TO	390+00.00	RT	8			
393+23.00	TO	393+23.00	LT			15	15
395+49.80 3' X 10' PAD		LT		4			4
TOTAL				8	871	647	1518

				44000100
LOCATION				PAVEMENT REMOVAL
FAP 34 (IL 97, IL 123)		LENGTH	WIDTH	SQ YD
347+50 LT		50	1.5	8.3
349+50 LT		50	1.5	8.3
350+50 LT		50	1	5.6
351+50.00 TO 358+00.00 LT		650	1.875	135.4
TOTAL				158

				52200010
LOCATION				TEMPORARY SHEET PILING
FAP 34 (IL 97, IL 123)		SIDE	SQ FT	
308+34.00	TO	308+54.00	LT	580.0
308+57.50	TO	308+77.50	RT	560.0
TOTAL				1140

		60235610	60500060
LOCATION		INLETS TYPE A TYPE 2, FRAME & GRATE	REMOVING INLETS
FAP 34 (IL 97, IL 123)		EACH	EACH
346+23.50			1
390+40.00 LT		1	1
393+00.00 LT		1	1
TOTAL		2	3

		50105220	542D0213	542D0217
LOCATION		PIPE CULVERT REMOVAL	PIPE CULVERT CLASS D TYPE 1 8"	PIPE CULVERT CLASS D TYPE 1 12"
FAP 34 (IL 97, IL 123)		FOOT	FOOT	FOOT
297+50.00		43.00	43	
393+25.00				20
TOTAL		43	43	20

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USER NAME = Jonathan Cox	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET 1	OF 5	SHEETS	34	101RS-12,CLV,I-1	MONARD	121	7
								CONTRACT NO. 72M79
					ILLINOIS	FED. AID PROJECT		









				78009005				78009006		78009012	78004280	78004200	
LOCATION			LENGTH	MODIFIED URETHANE MARKING 5"				MODIFIED URETHANE PAVEMENT MARKING 6"		MODIFIED URETHANE PAVEMENT MARKING 12"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	
FAP 34 (IL 97, IL 123)				FOOT				FOOT	FOOT	FOOT	FOOT	SQFT	
				WHITE EDGE LINES	YELLOW-SKIP-DASH	YELLOW-SOLID	YELLOW DOUBLE SOLID	WHITE-SOLID	WHITE-DOTTED LINE	YELLOW-CHEVRONS	WHITE-STOP BAR	WHITE-TURN ARROW	
334+87.00	TO	337+38.00	251	502	62.75	251							
337+80.00	TO	358+39.00	2059	4118			4118						
358+39.00	TO	363+86.00	547	1094			2188			191			
362+40.00	TO	363+86.00	146						48.7				
363+86.00	TO	365+40.00	154	308			308	154				31.2	
366+48.00	TO	368+00.00	152					152				31.2	
366+48.00	TO	368+40.00	192	384									
368+00.00	TO	369+56.00	156						52.0				
368+40.00	TO	371+73.00	333	666			1332			64			
371+73.00	TO	377+16.00	543	1086			1086						
377+16.00	TO	390+73.00	1357	2714	339.25	1357							
390+73.00	TO	391+55.00	82	164			164						
391+55.00	TO	393+86.00	231	462			924			43			
392+71.00	TO	394+26.00	155						51.7				
393+86.00	TO	394+76.00	90	180			360						
394+26.00	TO	394+76.00	50					50				15.6	
395+93.00	TO	397+30.00	137					137				31.2	
395+93.00	TO	397+66.00	173	346			346						
397+30.00	TO	398+47.00	117						39.0				
397+66.00	TO	404+31.00	665	1330			2660			64			
403+50.00	TO	404+95.00	145						48.3				
404+31.00	TO	406+35.00	204	408			408						
404+95.00	TO	406+35.00	140					140				15.6	
407+07.00	TO	410+90.00	383	766			1532			130			
410+90.00	TO	422+94.00	1204	2408			2408						
422+94.00	TO	426+44.00	350	700			1400			93			
425+15.00	TO	426+97.00	182						60.7				
426+44.00	TO	428+00.00	156	312			312						
426+97.00	TO	428+00.00	103					103				31.2	
428+37.00	TO	431+08.00	271	542			1084			83			
431+08.00	TO	433+92.00	284	568			568						
STA 365+98.20 PRITCHETTville RD RT													
10+24.00	TO	10+92.00	68	136									
10+45.00	TO	10+92.00	47				94	47				15.6	
10+45.00 RT										37			
STA 366+01.90 LINCOLN NEW SALEM RD LT													
9+25.00	TO	9+88.00	63	126									
9+25.00	TO	9+60.00	35				70						
9+60.00 RT										32			
STA 395+49.80 ATHENS BLACKTOP RD RT													
+11.00	TO	2+17.00	206	412									
1+24.00	TO	2+17.00	93				186			13			
STA 406+57.10 STATE PARK RD LT													
9+31.00	TO	9+89.00	58	116									
9+31.00	TO	9+63.00	32				64						
9+63.00 RT										18			
STA 428+18.00 N. SHORE RD LT													
8+88.00	TO	9+80.00	92	184									
8+88.00	TO	9+10.00	22				44						
9+10.00	TO	9+68.00	58				232			20			
9+60.00 RT										24			
				20032	402	1608	21888						
<b>TOTAL</b>				<b>43930</b>				<b>183</b>	<b>301</b>	<b>688</b>	<b>124</b>	<b>172</b>	
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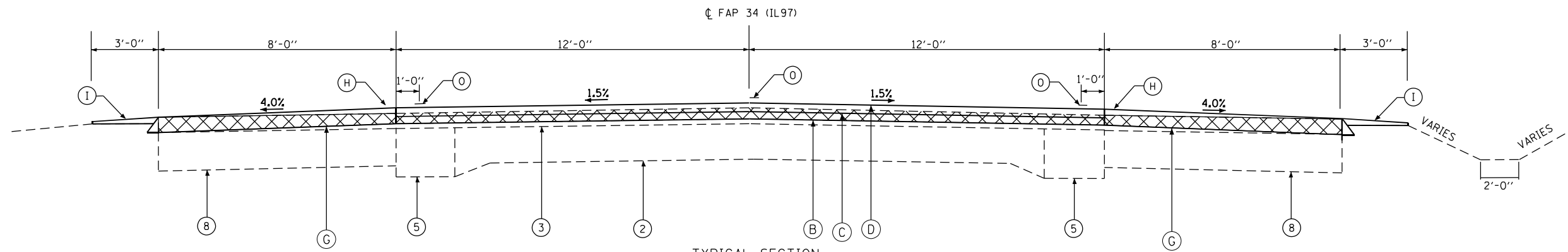
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PLOT DATE = 8/18/2023	CHECKED -	REVISED -
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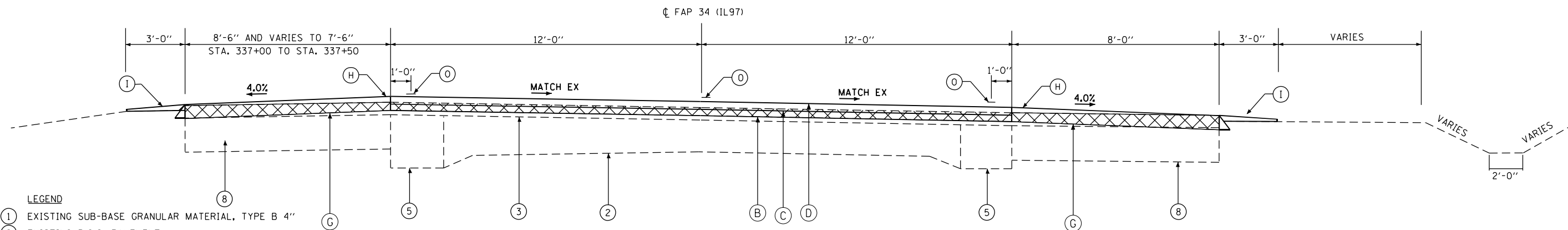
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES				
SCALE:	SHEET 5	OF 5	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	11
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION  
 RT STA. 334+87 TO RT STA. 335+78  
 LT STA. 334+87 TO LT STA. 335+88



TYPICAL SECTION  
 RT. STA. 335+78 TO STA. 337+36  
 LT. STA. 335+88 TO STA. 337+50

LEGEND

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ② EXISTING P.C.C. PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY 6"
- ④ EXISTING BITUMINOUS OVERLAY 8"
- ⑤ EXISTING BASE COURSE WIDENING 9"
- ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING BITUMINOUS SHOULDER 8"
- ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
- ⑩ EXISTING CONCRETE GUTTER
- ⑪ EXISTING CONCRETE GUTTER TYPE A
- ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
- ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
- A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
- C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
- E PROPOSED PAVED SHOULDER REMOVAL
- F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- G PROPOSED HOT-MIX ASPHALT SHOULDERS
- H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- J PROPOSED GUTTER REMOVAL
- K PROPOSED CONCRETE GUTTER, TYPE A
- L PROPOSED CONCRETE GUTTER, TYPE B
- M PROPOSED GUARDRAIL REMOVAL
- N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
- P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

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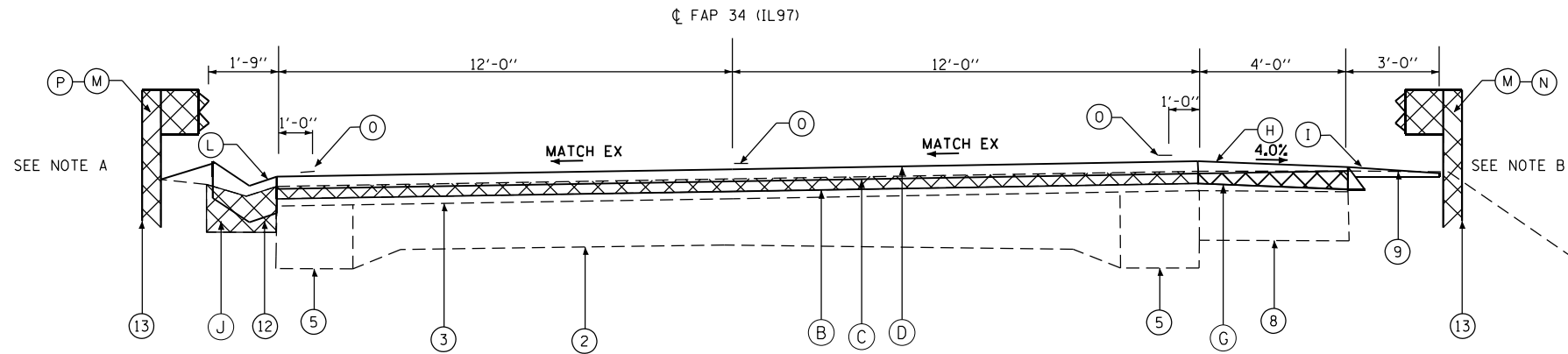
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PLOT DATE = 8/18/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 1	OF 9 SHEETS	STA. TO STA.

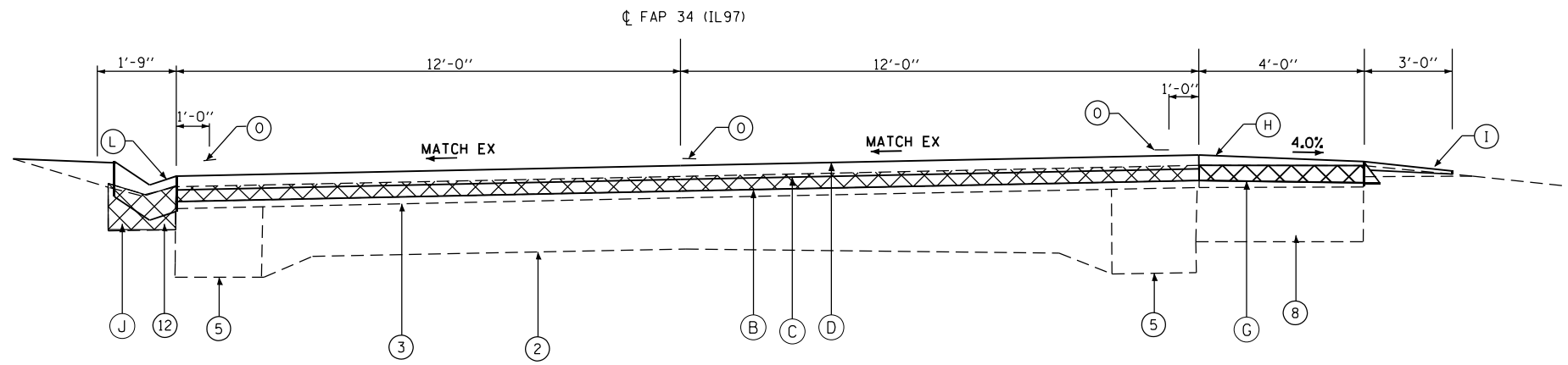
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CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				





TYPICAL SECTION  
RT. STA. 347+44 TO STA. 355+00  
LT. STA. 347+00 TO STA. 356+16

NOTES:  
A. PROP SPBGR & REM ENDS @ STA 355+38.00 LT THE PROPOSED GUARDRAIL WILL BE TYPE A, 9FT POSTS.  
B. PROP SPBGR & REM BEGINS @ STA 347+58.00 RT & ENDS STA 355+05.00 RT THE PROPOSED GUARDRAIL WILL BE TYPE A, 6 FT POSTS.



TYPICAL SECTION  
RT. STA. 355+00 TO STA. 357+00  
LT. STA. 356+16 TO STA. 358+24

LEGEND

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ② EXISTING P.C.C. PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY 6"
- ④ EXISTING BITUMINOUS OVERLAY 8"
- ⑤ EXISTING BASE COURSE WIDENING 9"
- ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING BITUMINOUS SHOULDER 8"
- ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
- ⑩ EXISTING CONCRETE GUTTER
- ⑪ EXISTING CONCRETE GUTTER TYPE A
- ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
- ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
- A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
- C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
- E PROPOSED PAVED SHOULDER REMOVAL
- F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- G PROPOSED HOT-MIX ASPHALT SHOULDERS
- H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- J PROPOSED GUTTER REMOVAL
- K PROPOSED CONCRETE GUTTER, TYPE A
- L PROPOSED CONCRETE GUTTER, TYPE B
- M PROPOSED GUARDRAIL REMOVAL
- N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
- P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

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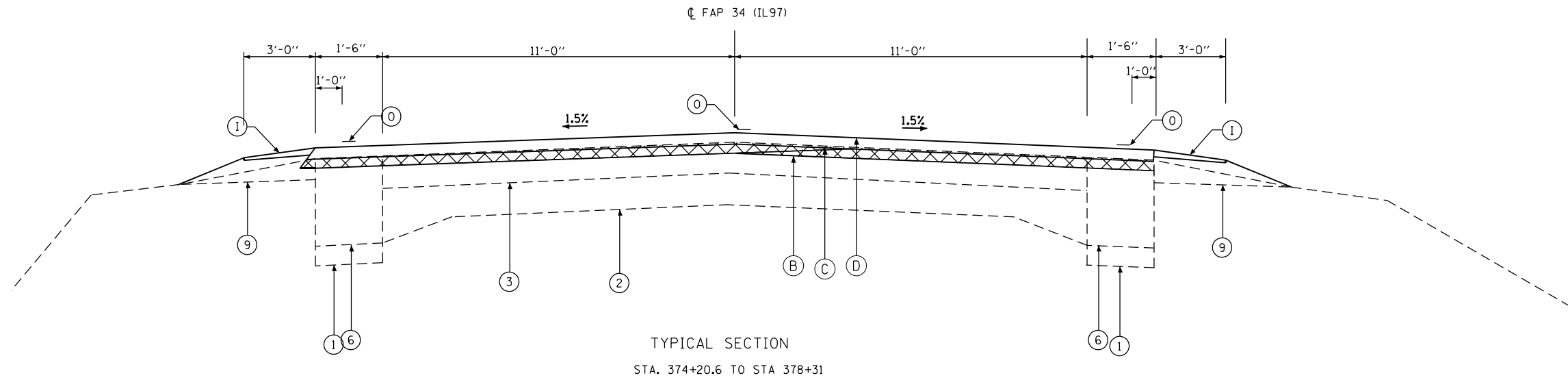
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

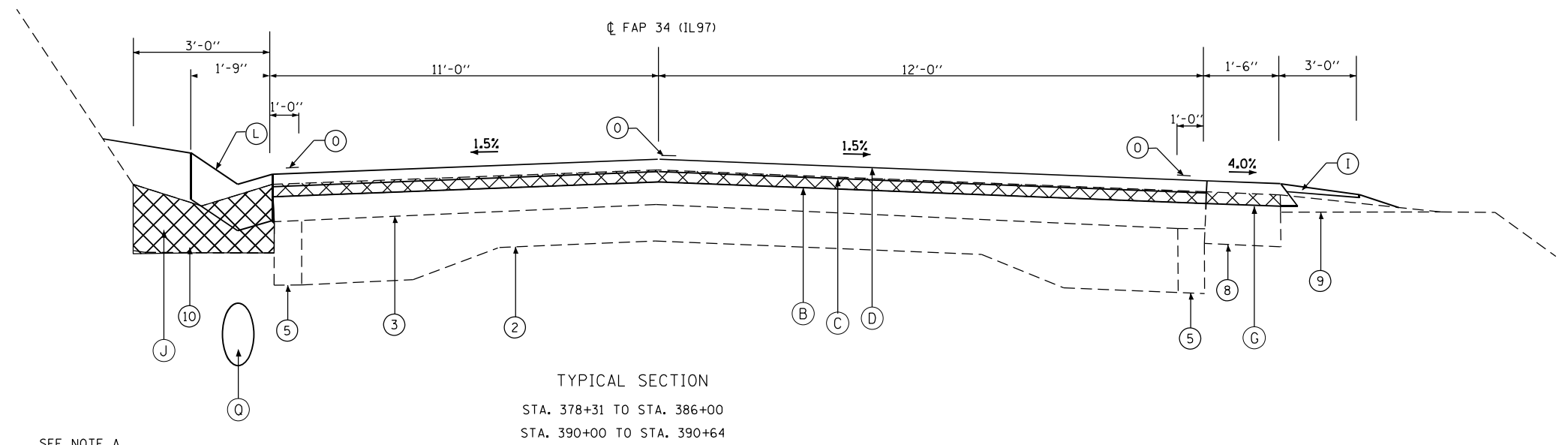
TYPICAL SECTIONS			
SCALE:	SHEET 3	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	14
			CONTRACT NO. 72M79	
ILLINOIS FED. AID PROJECT				





TYPICAL SECTION  
STA. 374+20.6 TO STA 378+31



TYPICAL SECTION  
STA. 378+31 TO STA. 386+00  
STA. 390+00 TO STA. 390+64

**LEGEND**

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ② EXISTING P.C.C. PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY 6"
- ④ EXISTING BITUMINOUS OVERLAY 8"
- ⑤ EXISTING BASE COURSE WIDENING 9"
- ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING BITUMINOUS SHOULDER 8"
- ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
- ⑩ EXISTING CONCRETE GUTTER
- ⑪ EXISTING CONCRETE GUTTER TYPE A
- ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
- ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
- A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
- C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
- E PROPOSED PAVED SHOULDER REMOVAL
- F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- G PROPOSED HOT-MIX ASPHALT SHOULDERS
- H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- J PROPOSED GUTTER REMOVAL
- K PROPOSED CONCRETE GUTTER, TYPE A
- L PROPOSED CONCRETE GUTTER, TYPE B
- M PROPOSED GUARDRAIL REMOVAL
- N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
- P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

SEE NOTE A

NOTES:  
A. PROP STORM SEWER BEGINS @ STA 377+00.00 & ENDS STA 387+00.00

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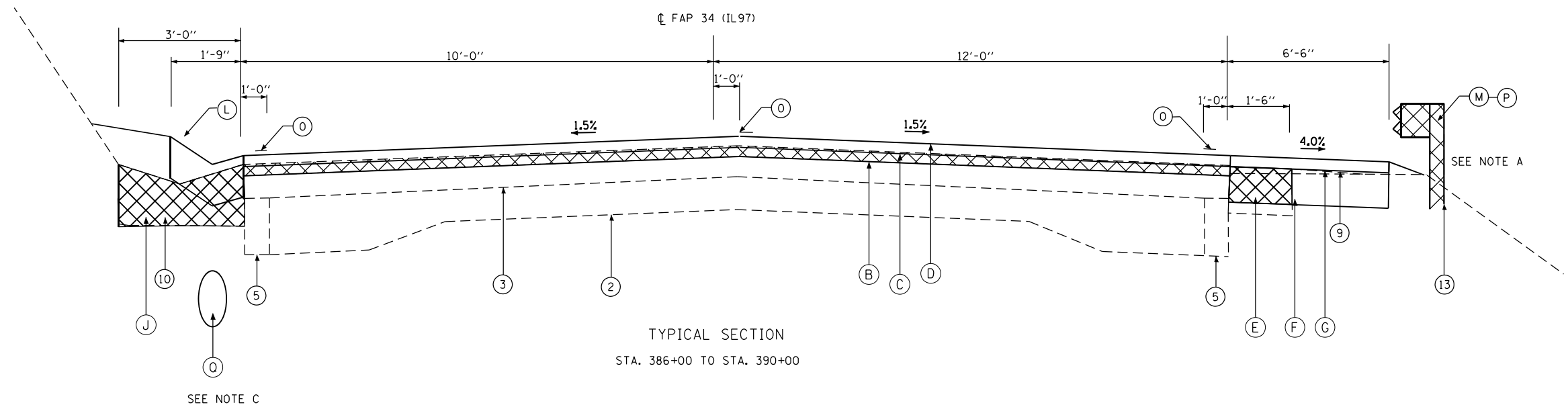
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

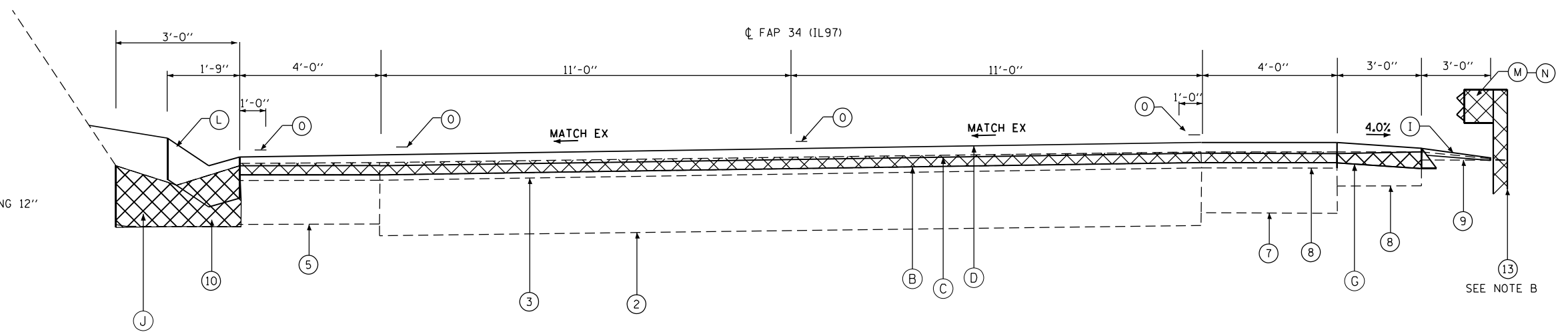
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SCALE:	SHEET 5	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	16
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				





TYPICAL SECTION  
STA. 386+00 TO STA. 390+00



TYPICAL SECTION  
STA. 390+64 TO STA. 395+50

- LEGEND**
- 1 EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
  - 2 EXISTING P.C.C. PAVEMENT
  - 3 EXISTING BITUMINOUS OVERLAY 6"
  - 4 EXISTING BITUMINOUS OVERLAY 8"
  - 5 EXISTING BASE COURSE WIDENING 9"
  - 6 EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
  - 7 EXISTING BITUMINOUS BASE COURSE
  - 8 EXISTING BITUMINOUS SHOULDER 8"
  - 9 EXISTING AGGREGATE SHOULDER WEDGE TYPE B
  - 10 EXISTING CONCRETE GUTTER
  - 11 EXISTING CONCRETE GUTTER TYPE A
  - 12 EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
  - 13 EXISTING STEEL PLATE BEAM GUARDRAIL
  - A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
  - B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
  - C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
  - D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
  - E PROPOSED PAVED SHOULDER REMOVAL
  - F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
  - G PROPOSED HOT-MIX ASPHALT SHOULDERS
  - H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
  - I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
  - J PROPOSED GUTTER REMOVAL
  - K PROPOSED CONCRETE GUTTER, TYPE A
  - L PROPOSED CONCRETE GUTTER, TYPE B
  - M PROPOSED GUARDRAIL REMOVAL
  - N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
  - O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
  - P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
  - Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

**NOTES:**  
 A. PROP SPBGR & REM BEGINS @ STA 385+77.00 & ENDS @ STA 389+90.00 RT  
 B. PROP SPBGR & REM BEGINS @ STA 394+14.00 & ENDS @ STA 395+00.00 RT  
 C. PROP STORM SEWER BEGINS @ STA 378+31.00 & ENDS STA 387+00.00

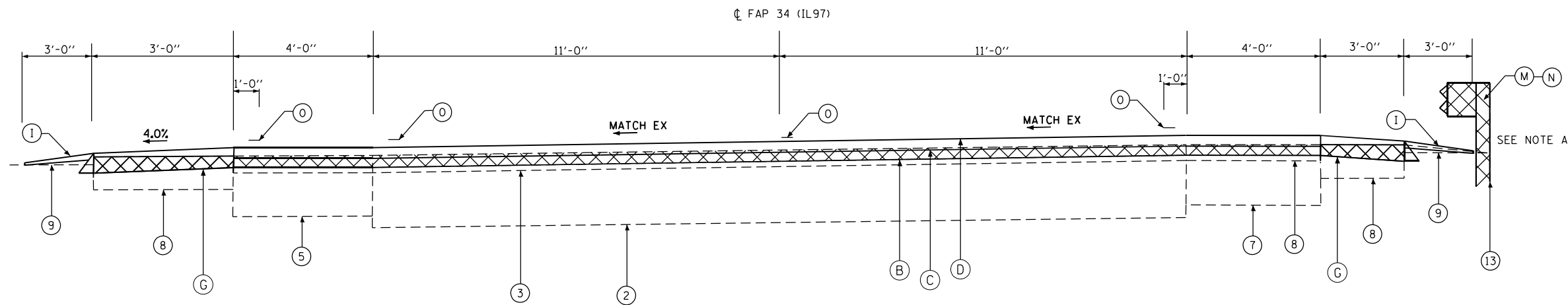
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DRAWN -	CHECKED -	REVISED -
PLOT SCALE = 100,0000' / in.	DATE -	REVISED -
PLOT DATE = 8/23/2023		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
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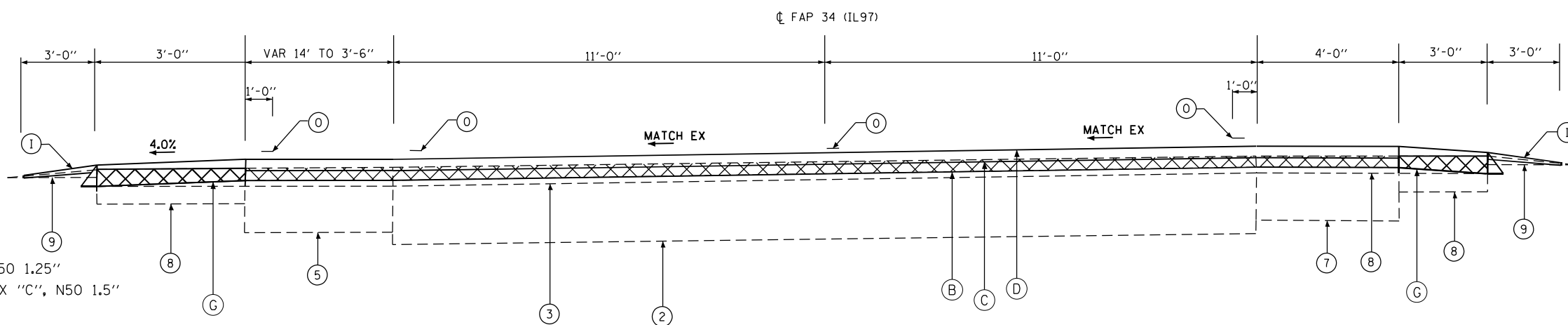
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ILLINOIS FED. AID PROJECT				



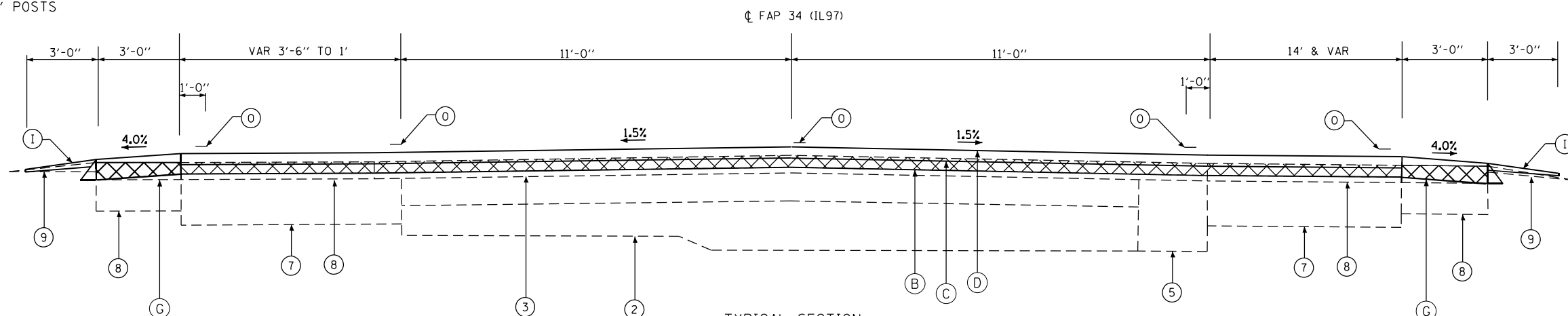
TYPICAL SECTION  
STA. 395+50 TO STA. 400+00

NOTES:  
A. PROP SPBGR & REM BEGINS @ STA 395+50.00 & ENDS @ STA 396+97.00 RT

- LEGEND**
- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
  - ② EXISTING P.C.C. PAVEMENT
  - ③ EXISTING BITUMINOUS OVERLAY 6"
  - ④ EXISTING BITUMINOUS OVERLAY 8"
  - ⑤ EXISTING BASE COURSE WIDENING 9"
  - ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
  - ⑦ EXISTING BITUMINOUS BASE COURSE
  - ⑧ EXISTING BITUMINOUS SHOULDER 8"
  - ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
  - ⑩ EXISTING CONCRETE GUTTER
  - ⑪ EXISTING CONCRETE GUTTER TYPE A
  - ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
  - ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
  - A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
  - B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
  - C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
  - D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
  - E PROPOSED PAVED SHOULDER REMOVAL
  - F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
  - G PROPOSED HOT-MIX ASPHALT SHOULDERS
  - H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
  - I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
  - J PROPOSED GUTTER REMOVAL
  - K PROPOSED CONCRETE GUTTER, TYPE A
  - L PROPOSED CONCRETE GUTTER, TYPE B
  - M PROPOSED GUARDRAIL REMOVAL
  - N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
  - O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
  - P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
  - Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"



TYPICAL SECTION  
STA. 400+00 TO STA. 404+00



TYPICAL SECTION  
STA. 404+00 TO STA. 407+36.42

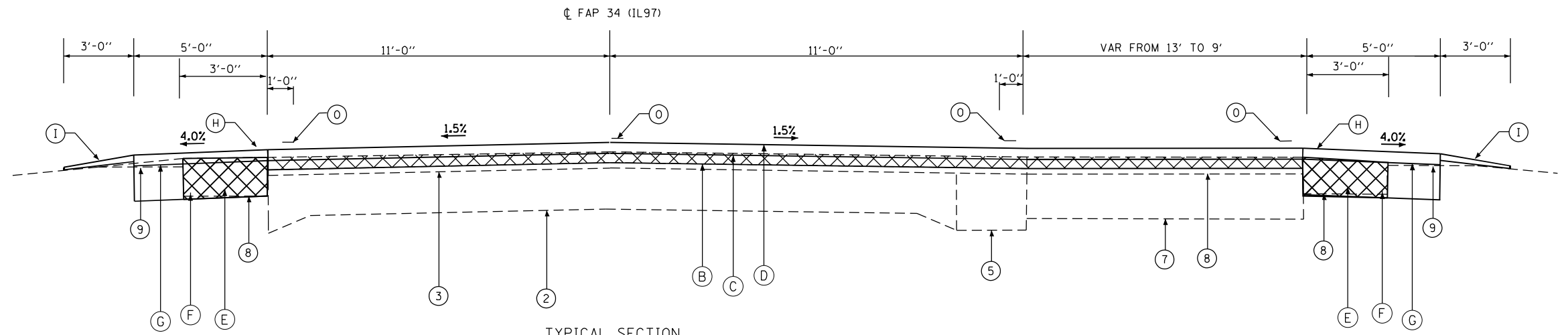
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 DATE: 8/18/2023

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PLOT DATE = 8/18/2023	CHECKED -	REVISED -
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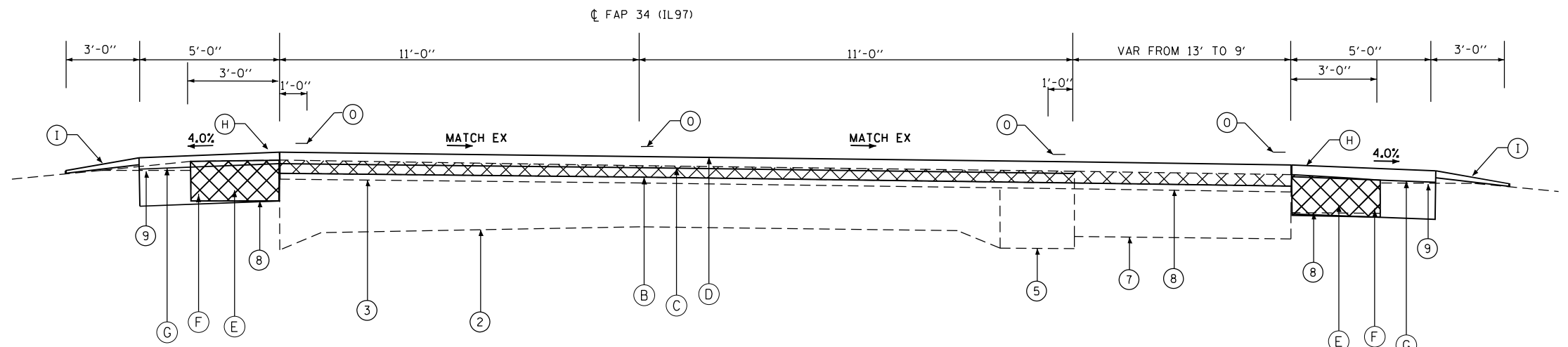
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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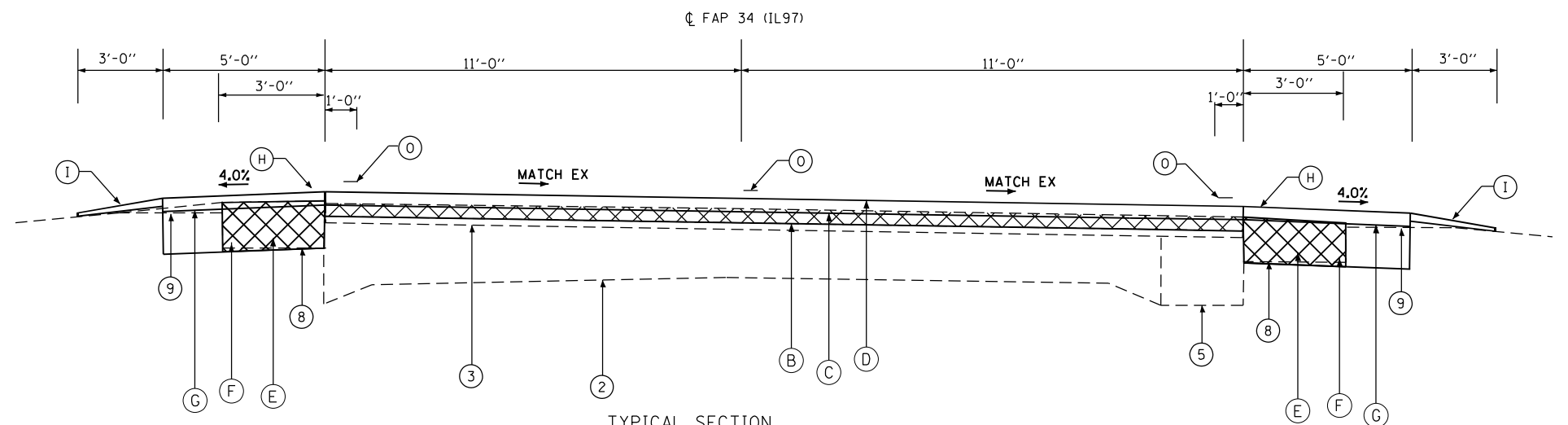
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34	101RS-12.CLV.I-1	MENARD	121	18
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION  
STA. 407+36.42 TO STA. 409+13.50



TYPICAL SECTION  
STA. 409+13.50 TO STA. 412+51.50



TYPICAL SECTION  
STA. 412+51.50 TO STA. 422+13  
STA. 431+94 TO STA. 433+92

**LEGEND**

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ② EXISTING P.C.C. PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY 6"
- ④ EXISTING BITUMINOUS OVERLAY 8"
- ⑤ EXISTING BASE COURSE WIDENING 9"
- ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING BITUMINOUS SHOULDER 8"
- ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
- ⑩ EXISTING CONCRETE GUTTER
- ⑪ EXISTING CONCRETE GUTTER TYPE A
- ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
- ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
- A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
- C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
- E PROPOSED PAVED SHOULDER REMOVAL
- F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- G PROPOSED HOT-MIX ASPHALT SHOULDERS
- H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- J PROPOSED GUTTER REMOVAL
- K PROPOSED CONCRETE GUTTER, TYPE A
- L PROPOSED CONCRETE GUTTER, TYPE B
- M PROPOSED GUARDRAIL REMOVAL
- N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
- P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

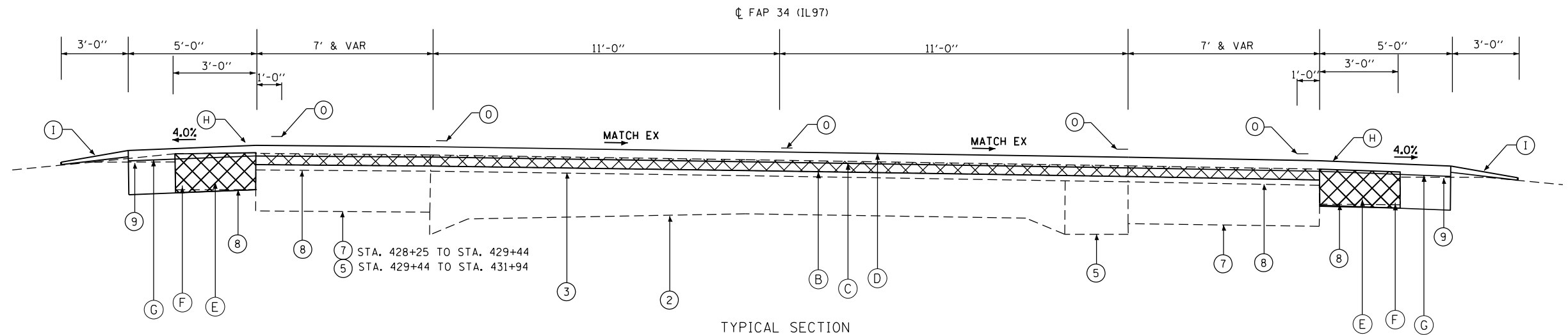
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PLOT DATE = 8/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

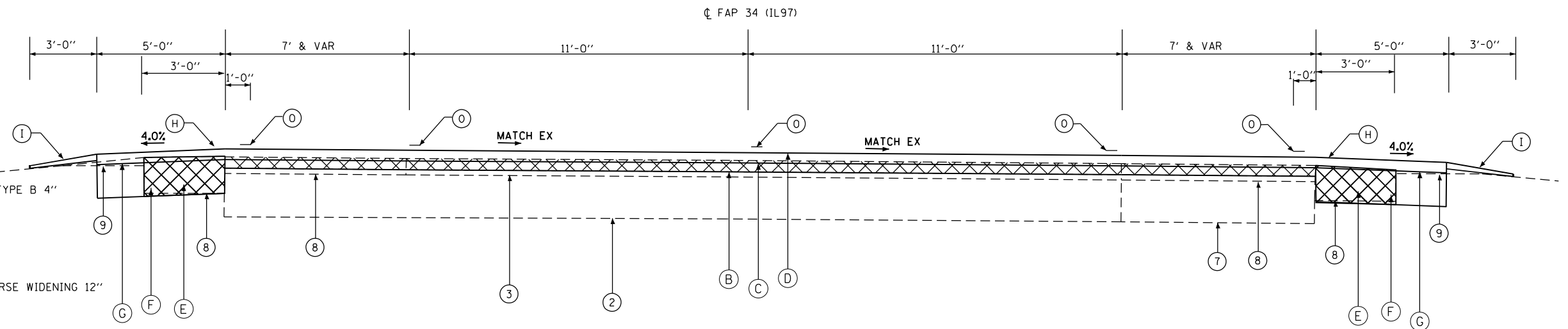
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV-I-1	MENARD	121	19
			CONTRACT NO. 72M79	
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION  
 STA. 422+13 TO STA. 424+75  
 STA. 425+55 TO STA. 428+25  
 STA. 428+25 TO STA. 431+94



TYPICAL SECTION  
 STA. 424+75 TO STA. 425+55

LEGEND

- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ② EXISTING P.C.C. PAVEMENT
- ③ EXISTING BITUMINOUS OVERLAY 6"
- ④ EXISTING BITUMINOUS OVERLAY 8"
- ⑤ EXISTING BASE COURSE WIDENING 9"
- ⑥ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING 12"
- ⑦ EXISTING BITUMINOUS BASE COURSE
- ⑧ EXISTING BITUMINOUS SHOULDER 8"
- ⑨ EXISTING AGGREGATE SHOULDER WEDGE TYPE B
- ⑩ EXISTING CONCRETE GUTTER
- ⑪ EXISTING CONCRETE GUTTER TYPE A
- ⑫ EXISTING CONCRETE GUTTER TYPE B (MODIFIED)
- ⑬ EXISTING STEEL PLATE BEAM GUARDRAIL
- A PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- B PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1.5"
- C PROPOSED HOT-MIX ASPHALT BINDER COURSE IL 9.5FG, N50 1.25"
- D PROPOSED HOT-MIX ASPHALT SURFACE COURSE IL 9.5, MIX "C", N50 1.5"
- E PROPOSED PAVED SHOULDER REMOVAL
- F PROPOSED HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- G PROPOSED HOT-MIX ASPHALT SHOULDERS
- H PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- I PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- J PROPOSED GUTTER REMOVAL
- K PROPOSED CONCRETE GUTTER, TYPE A
- L PROPOSED CONCRETE GUTTER, TYPE B
- M PROPOSED GUARDRAIL REMOVAL
- N PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- O PROPOSED MODIFIED URETHANE PAVEMENT MARKING - LINE 5"
- P PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- Q PROPOSED STORM SEWERS CLASS A TYPE 1, 18"

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 PLOT DATE: 8/18/2023

USER NAME = Jonathan Cox	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 9	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV-I-1	MENARD	121	20
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

### D672M79 Control Points

Control Point Number	Northing	Easting	Description	Station	Offset	Chain
<b>NAD83/1997adj</b>						
TRAV60001	1198160.959	2386643.972	#4 REBAR W/ CAP	292+76.10	37.73' RT	E011
TRAV60000	1198965.572	2386573.748	#4 REBAR W/ CAP	300+81.18	26.82' LT	E011
TRAV60004	1199597.997	2386628.993	#4 REBAR W/ CAP	307+12.54	40.24' RT	E011
TRAV60005	1200047.525	2386604.842	#4 REBAR W/ CAP	311+62.53	27.43' RT	E011
WS1310	1202569.246	2386488.094	#4 REBAR W/ CAP	336+85.78	26.11' LT	E011
1307	1203193.164	2386640.325	#4 REBAR W/ CAP	343+20.39	31.22' LT	E011
600	1203469.286	2386856.171	#4 REBAR W/ CAP	346+65.76	18.15' LT	E011
601	1203674.207	2387084.557	#4 REBAR W/ CAP	349+69.63	19.66' RT	E011
1306	1203952.094	2387263.139	#4 REBAR W/ CAP	352+96.01	21.37' RT	E011
1305	1204481.817	2387370.252	#4 REBAR W/ CAP	358+36.18	17.80' LT	E011
602	1204892.751	2387543.467	#4 REBAR W/ CAP	362+86.30	31.05' RT	E011
9400	1205193.632	2387621.587	#5 REBAR W/ CAP	365+68.65	85.14' LT	E011
603	1205478.257	2388048.001	#4 REBAR W/ CAP	370+69.56	22.66' LT	E011
1304	1205687.252	2388342.338	#4 REBAR W/ CAP	374+22.85	34.82' RT	E011
1303	1206233.016	2388518.313	#4 REBAR W/ CAP	379+85.01	42.96' RT	E011
1302	1207493.207	2388566.313	#4 REBAR W/ CAP	392+42.82	23.05' RT	E011
605	1207762.743	2388432.400	#4 REBAR W/ CAP	395+37.57	47.88' LT	E011
606	1208216.489	2388300.391	#4 REBAR W/ CAP	400+10.11	19.39' RT	E011
WS1301	1208603.951	2388004.151	#4 REBAR W/ CAP	404+93.21	30.13' RT	E011
WS1300	1209416.747	2387263.062	#4 REBAR W/ CAP	415+99.79	45.12' RT	E011
6	1210415.017	2386599.019	#4 REBAR W/ CAP	427+95.38	65.17' LT	E011
607	1211531.942	2386440.244	#4 REBAR W/ CAP	438+97.94	45.05' RT	E001

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USER NAME = Jonathan.Cox	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HORIZONTAL AND VERTICAL CONTROL</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -					34	(101) RS-13	MENARD	121	21
PLOT DATE = 8/18/2023	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	DATE -	REVISED -									

**D672M79 Benchmarks**

Benchmark	Station	Offset	Alignment	NAVD88 Elevation	Description
BM CB-6	297+73.7	33.8' LT	E011	586.393	chsl d [] center 8" conc wall of W end 12" cmp outlet to 7x6 box culv under IL97, 0.88 mile N of IL123
BM WS 100	308+50.0	25.8' LT	E011	598.057	Set cut "[ ]" on N. end of West Headwall to 3x3 culvert 1.08 mi N of IL97/IL123 Jct (Jct E of Tallula)
BM 97-1	317+68.9	57.1' RT	E011	603.689	chsl d x NW bolt sign foundation FS Gas Station E side IL97 @ Cassen Ave
BM 97-2	323+73.4	56.4' RT	E011	611.157	chsl d x W bolt fire hyd E side IL97 @ Menard Electric Coop, 0.06 mile N of Boy Scout Rd
BM 97-3	328+50.5	30.5' LT	E011	596.951	chsl d [] center W hdwl culv under IL97, 0.15 mile N of Boy Scout Rd
BM 97 4	333+75.7	43.2' LT	E011	605.649	fnd chsl d x E bolt fire hyd W side IL97 in front of building #14469, 0.25 mile N of Boy Scout Rd
BM 97-5	341+37.7	13.4' RT	E011	583.430	chsl d arrow top back of gutter E side IL97 across from big wooden New Salem Park sign, 0.40 mile N o <sup>2</sup> Boy Scout Rd
BM 97-6	346+25.7	17.3' RT	E011	554.541	chsl d [] NE corner gutter outlet at inlet E side IL97, 0.49 mile N of Boy Scout Rd
BM 97-7	346+32.2	38.6' RT	E011	547.807	chsl d [] N end E hdwl culvert under IL97, 0.49 mile N of Boy Scout Rd
BM 97-8	356+23.3	47.5' LT	E011	510.700	railroad spike in 31" Sycamore tree W side IL97, 0.69 mile N of Boy Scout Rd
BM 97 9	365+43.9	114.3' RT	E011	503.232	chsl d [] ctr S hdwl culv under Pritcherville Rd E side IL 97 & across from New Salem Park Ent
BM 97-10	372+15.4	40.9' RT	E011	503.051	chsl d [] S end E hdwl culvert under IL97 str#065-2004, 0.12 mile N of Pritcherville Rd/New Salem Park Ent
BM 97-11	383+26.1	35.1' RT	E011	510.674	found railroad spike in powerpole E side IL97, 0.34 mile N of Pritcherville Rd/New Salem Park Ent
BM 97-12	389+24.2	39.1' RT	E011	512.384	60 d spike nail in powerpole E side IL97, 0.45 mile N of Pritcherville Rd/New Salem Park Ent
BM 97-13	389+30.3	42.1' RT	E011	512.959	chsl d [] conc base foundation for manhole lid 0.45 mile N of Pritcherville Rd on E side IL97
BM 97-14	395+06.4	157.2' RT	E011	518.553	chsl d [] W end of NW approach wall bridge over Sangamon River at Athens Blacktop, 0.57 mile N of Pritcherville Rd
BM 97-15	396+95.9	43.9' LT	E011	510.258	chsl d [] center W hdwl culv under IL97, 0.04 mile N of Athens Blacktop
BM 574	404+55.3	77.5' RT	E011	515.593	60 d spike nail in powerpole E side IL97, 0.18 mile N from Athens Blktp Rd
BM 97-16	413+24.2	25.8' LT	E011	525.195	chsl d [] center SW hdwl cuv under IL96 SW side IL97, 0.35 mile N of Athens Blacktop
BM 97-17	424+88.1	46.0' RT	E011	508.691	IDOT aluminum disc S end W hdwl culv under IL97 at approx station 425+15 str#065-0003, 0.57 mile N of Athens Blacktop
BM 576	427+57.2	48.0' LT	E011	513.854	chsl d [] top S flared end section pipe culv under Lake Petersburg Ent, W side IL97
BM 577	436+84.8	59.8' LT	E001	517.666	60 d spike nail in powerpole W side IL97, 0.80 mile N of Athens Blactop Rd

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	DRAWN -	REVISED -
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PLOT DATE = 8/18/2023	DATE -	REVISED -

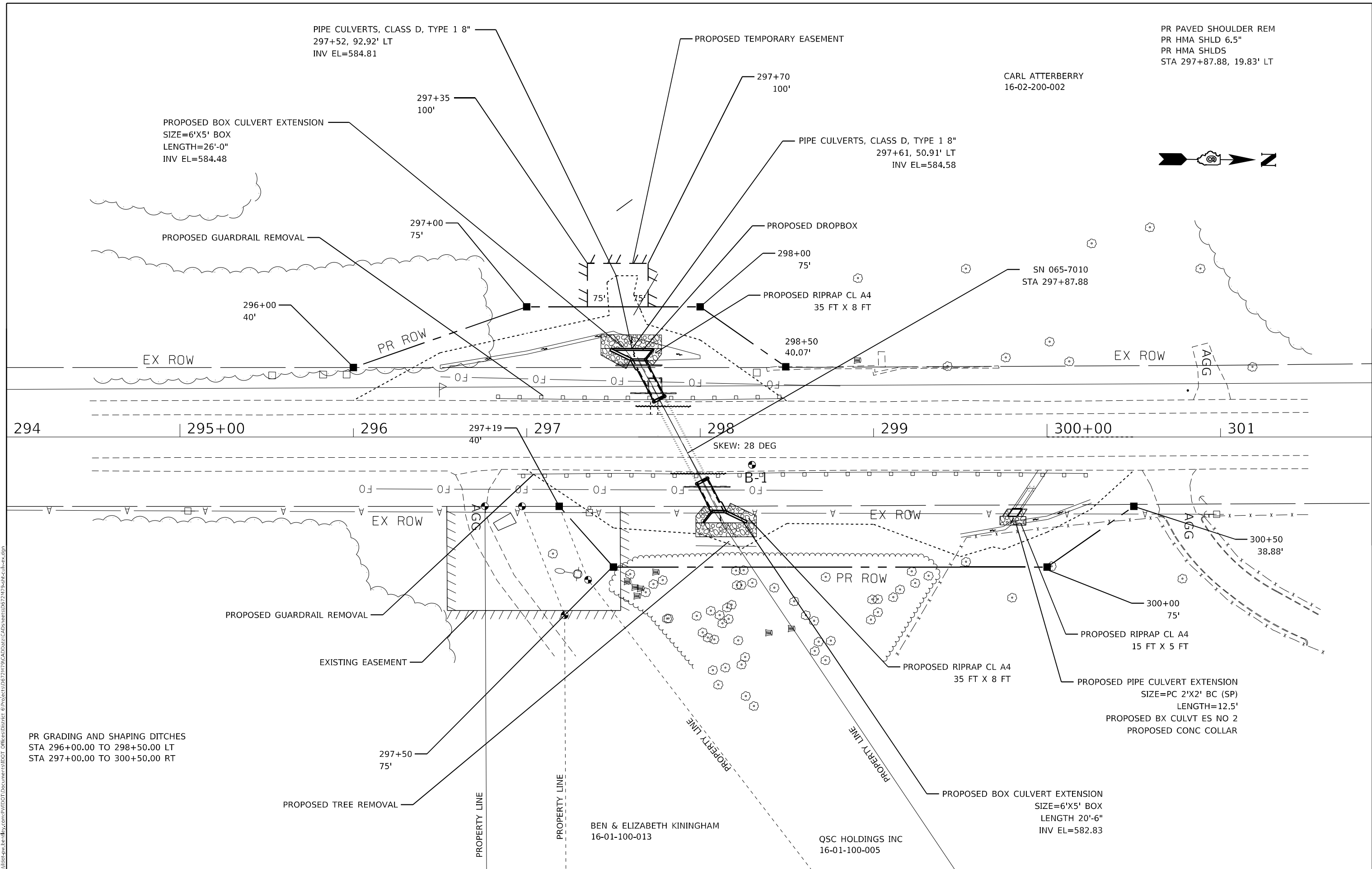
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORIZONTAL AND VERTICAL  
CONTROL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	22
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

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PR GRADING AND SHAPING DITCHES  
 STA 296+00.00 TO 298+50.00 LT  
 STA 297+00.00 TO 300+50.00 RT

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN SHEET CULVERT EXTENSION  
 BOX CULVERT #1 & #2**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	23
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

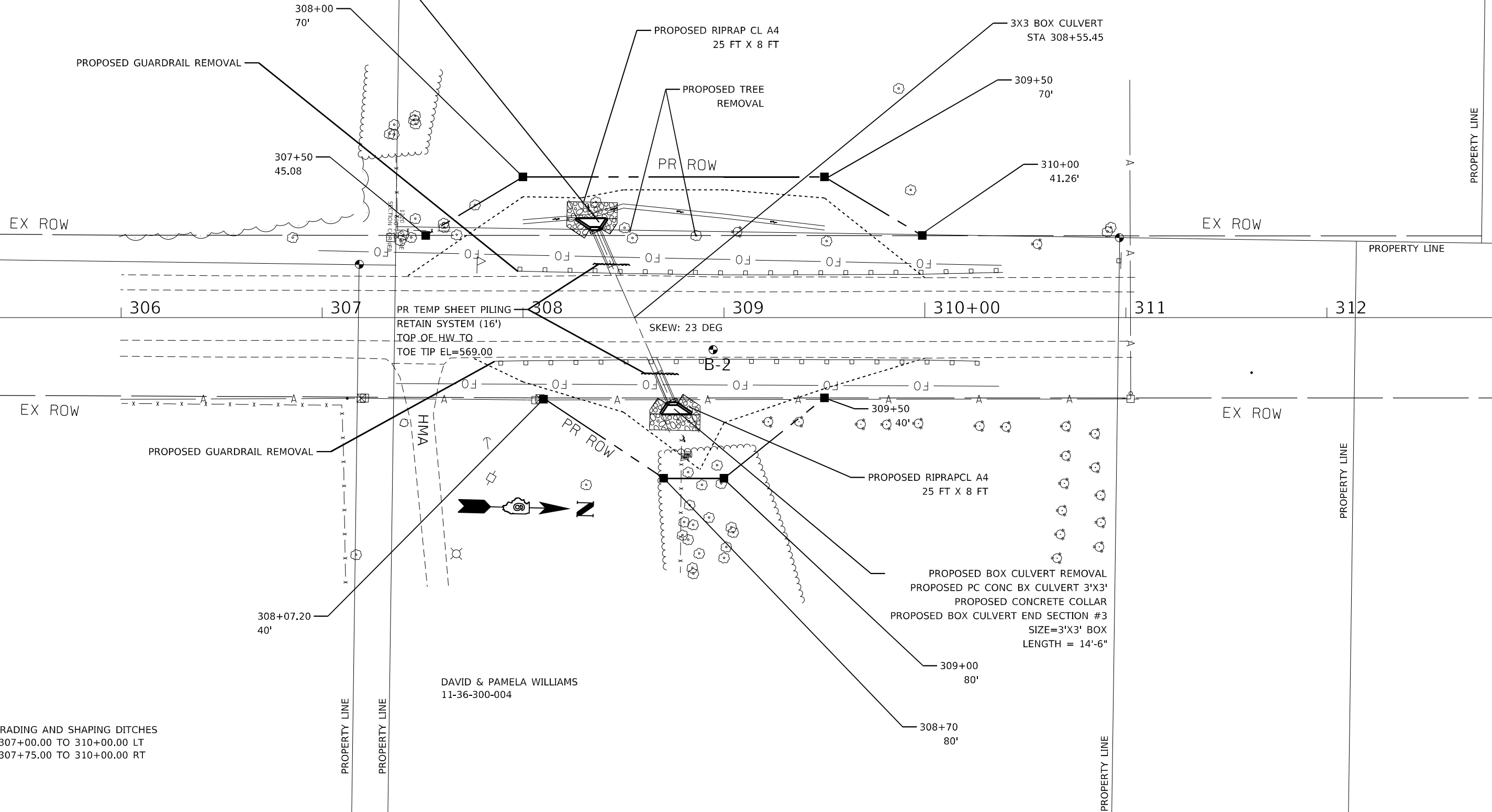
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SCALE: SHEET OF SHEETS STA. TO STA.

NOTE:  
 PRECAST EXTENSIONS FOR BOTH THE EAST AND WEST  
 END CAN ALSO BE CAST-IN-PLACE EXTENSIONS.

DENIS & CHERYL FAUGUST  
 11-35-400-012

PROPOSED BOX CULVERT REMOVAL  
 PROPOSED PC CONC BX CULVERT 3'X3'  
 PROPOSED BOX CULVERT END SECTION #2  
 PROPOSED CONCRETE COLLAR  
 SIZE=3'X3' BOX  
 LENGTH=17'-0"



PR GRADING AND SHAPING DITCHES  
 STA 307+00.00 TO 310+00.00 LT  
 STA 307+75.00 TO 310+00.00 RT

DAVID & PAMELA WILLIAMS  
 11-36-300-004

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET CULVERT EXTENSION  
 BOX CULVERT #3

SCALE: SHEET OF SHEETS STA. TO STA.

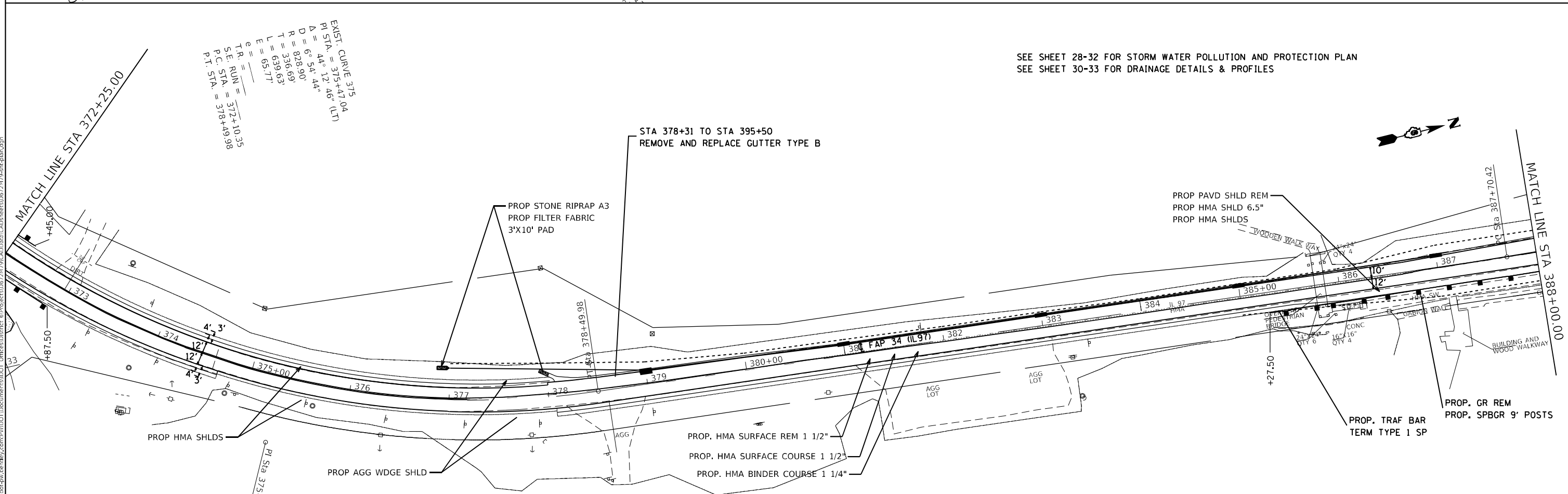
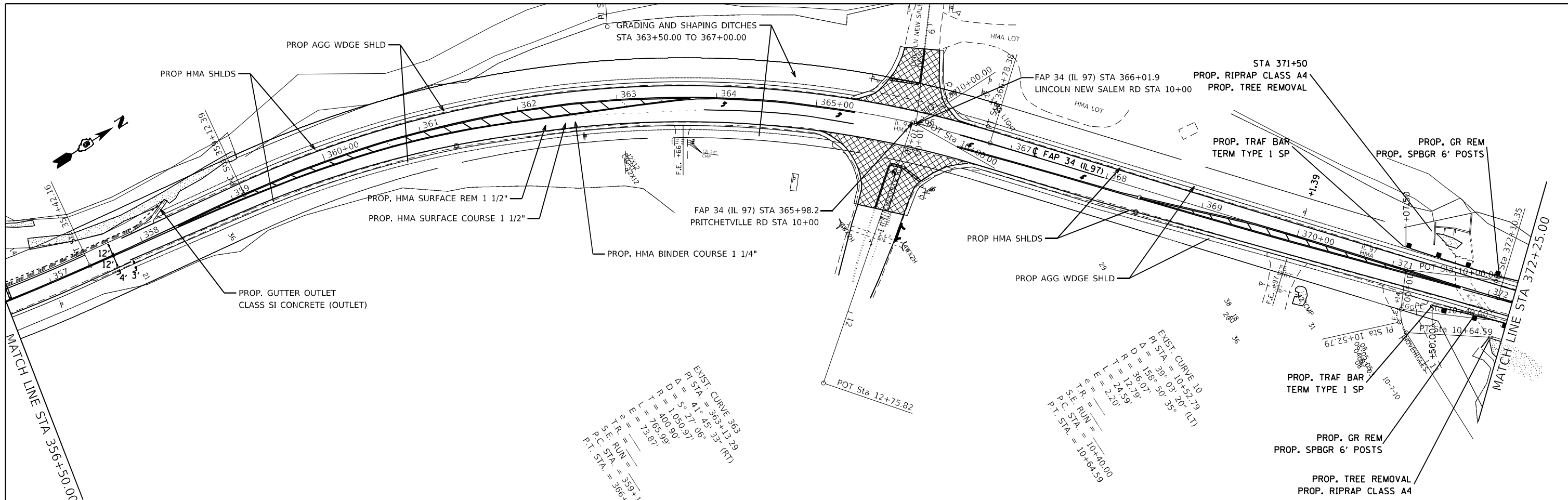
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ILLINOIS FED. AID PROJECT				

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SEE SHEET 28-32 FOR STORM WATER POLLUTION AND PROTECTION PLAN  
 SEE SHEET 30-33 FOR DRAINAGE DETAILS & PROFILES

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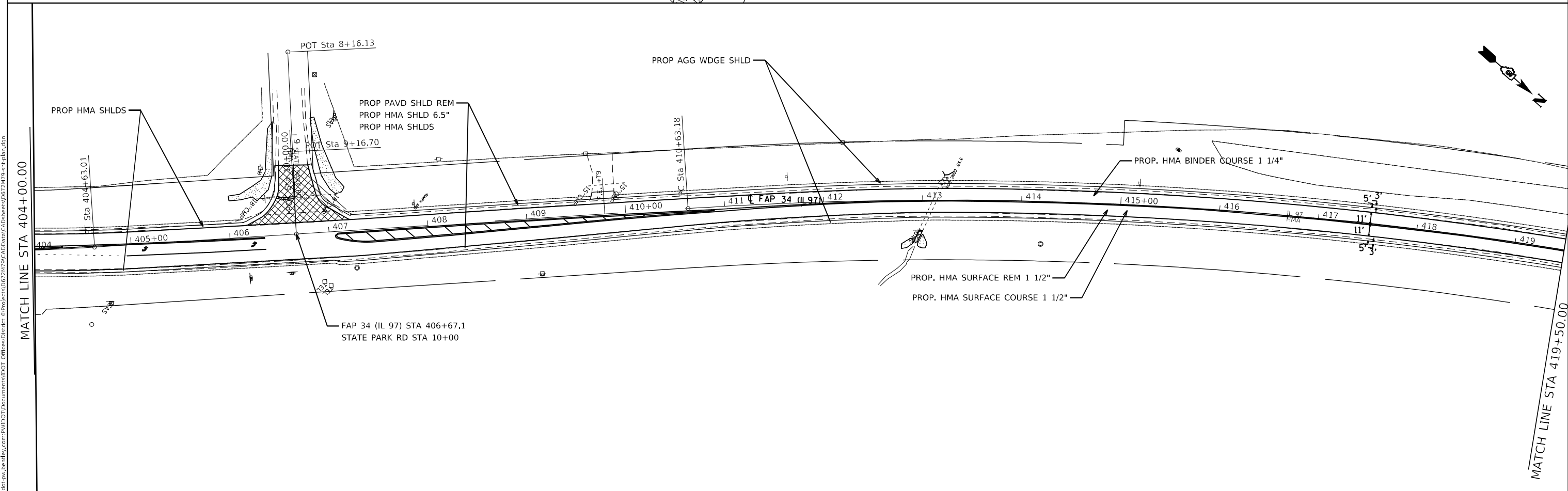
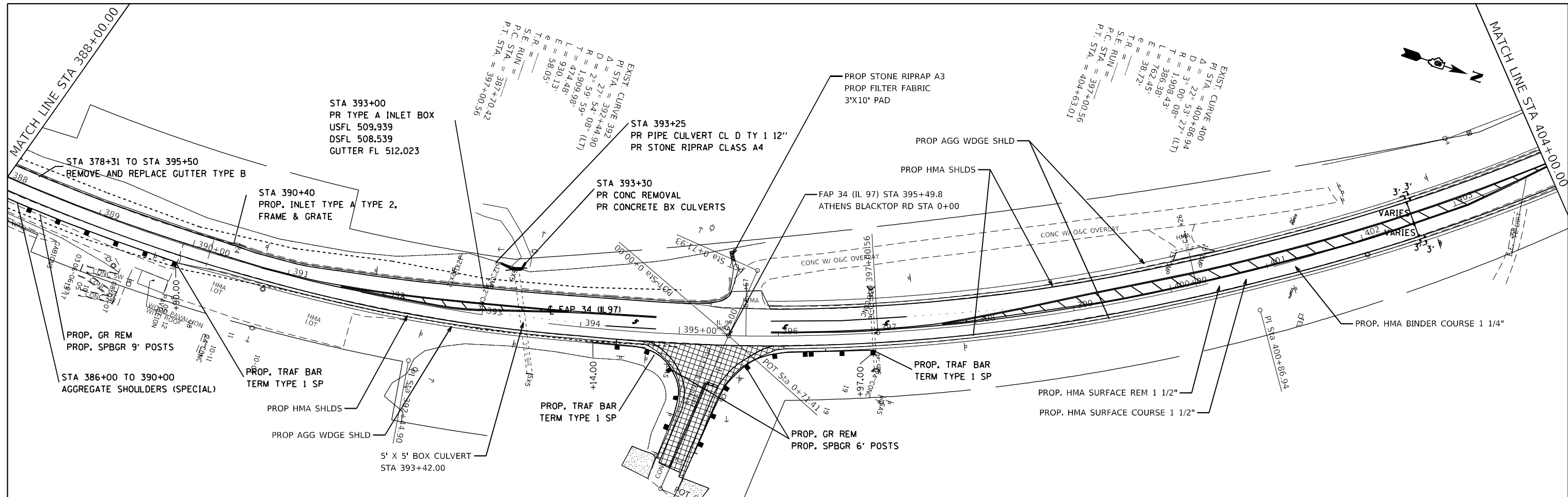
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DRAWN -	REVISED -	REVISED -
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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

**PLAN SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV-I-1	MENARD	121	27
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	



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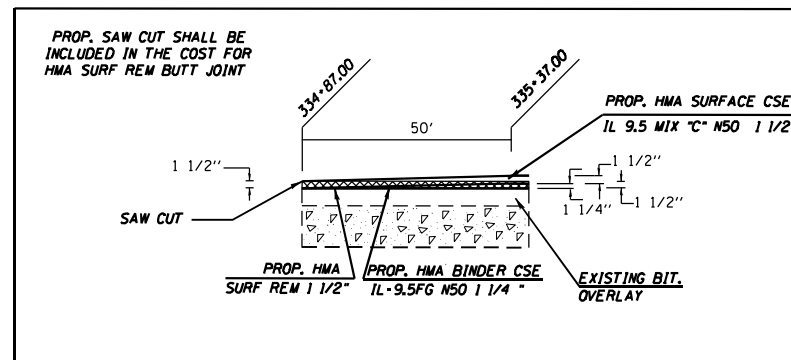
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN SHEETS</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

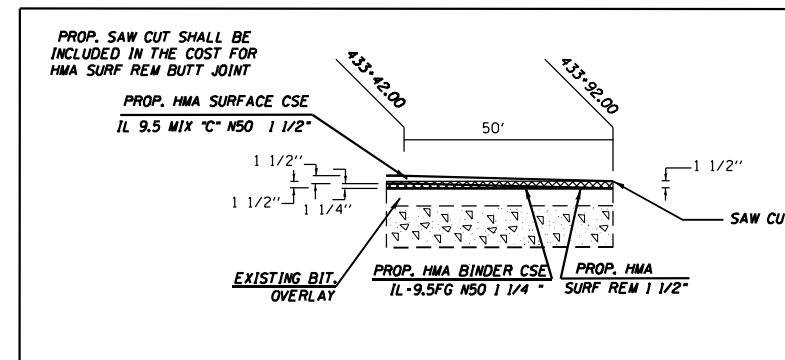
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34	101RS-12,CLV-I-1	MENARD	121	28
			CONTRACT NO. 72M79	
ILLINOIS FED. AID PROJECT				



TRANSITION DETAILS



TRANSITION DETAILS



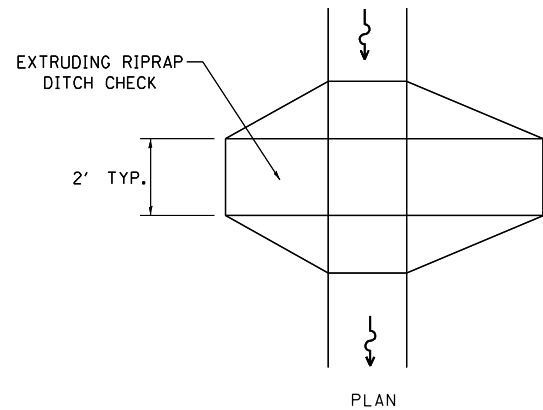
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

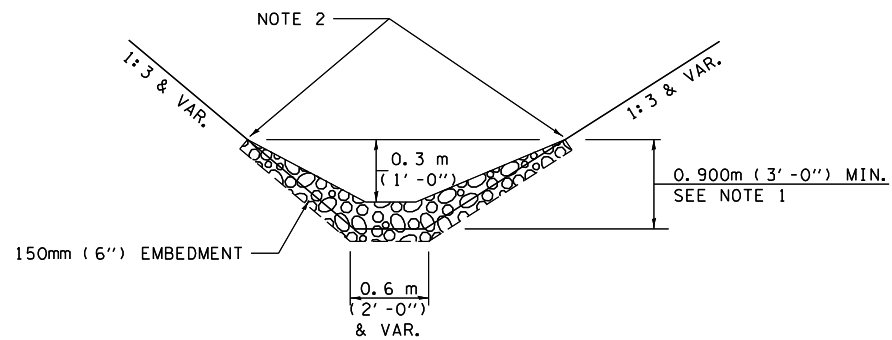
TRANSITION DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	10IRS-12,CLV,I-1	MENARD	121	30
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

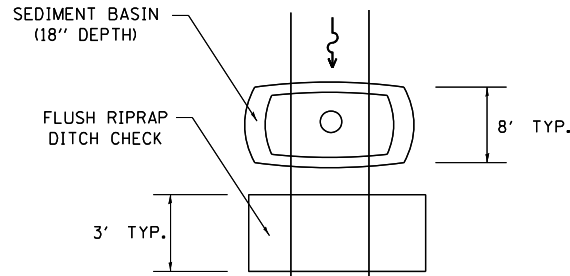


PLAN

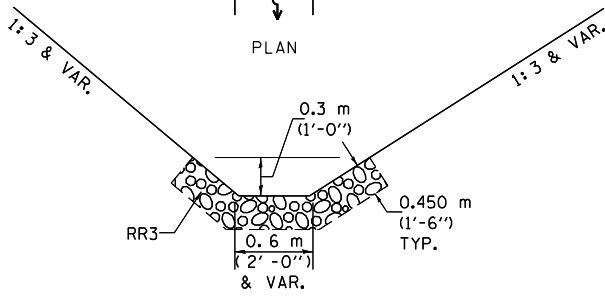


ELEVATION

OPTION 1  
(EXTRUDING DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/ RIPRAP DITCH LINING



PLAN



ELEVATION

OPTION 2  
(FLUSH DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/O RIPRAP DITCH LINING

STONE DUMPED RIPRAP DITCH CHECK  
OPTIONS 1 & 2 OR  
AS DIRECTED BY THE ENGINEER

NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE DITCH CHECK	
INLET PIPE PROTECTION	
PERIMETER EROSION BARRIER	
SEDIMENT BASINS EARTH EXCAVATION FOR EROSION CONTROL AGGREGATE (EROSION CONTROL)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:  
All items shall be constructed as shown on this sheet,  
on Standard 280001, and as directed by the Engineer.



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	DRAWN -	REVISED -
PLOT SCALE = 50,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLTION AND PROTECTION PLAN**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	32
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				





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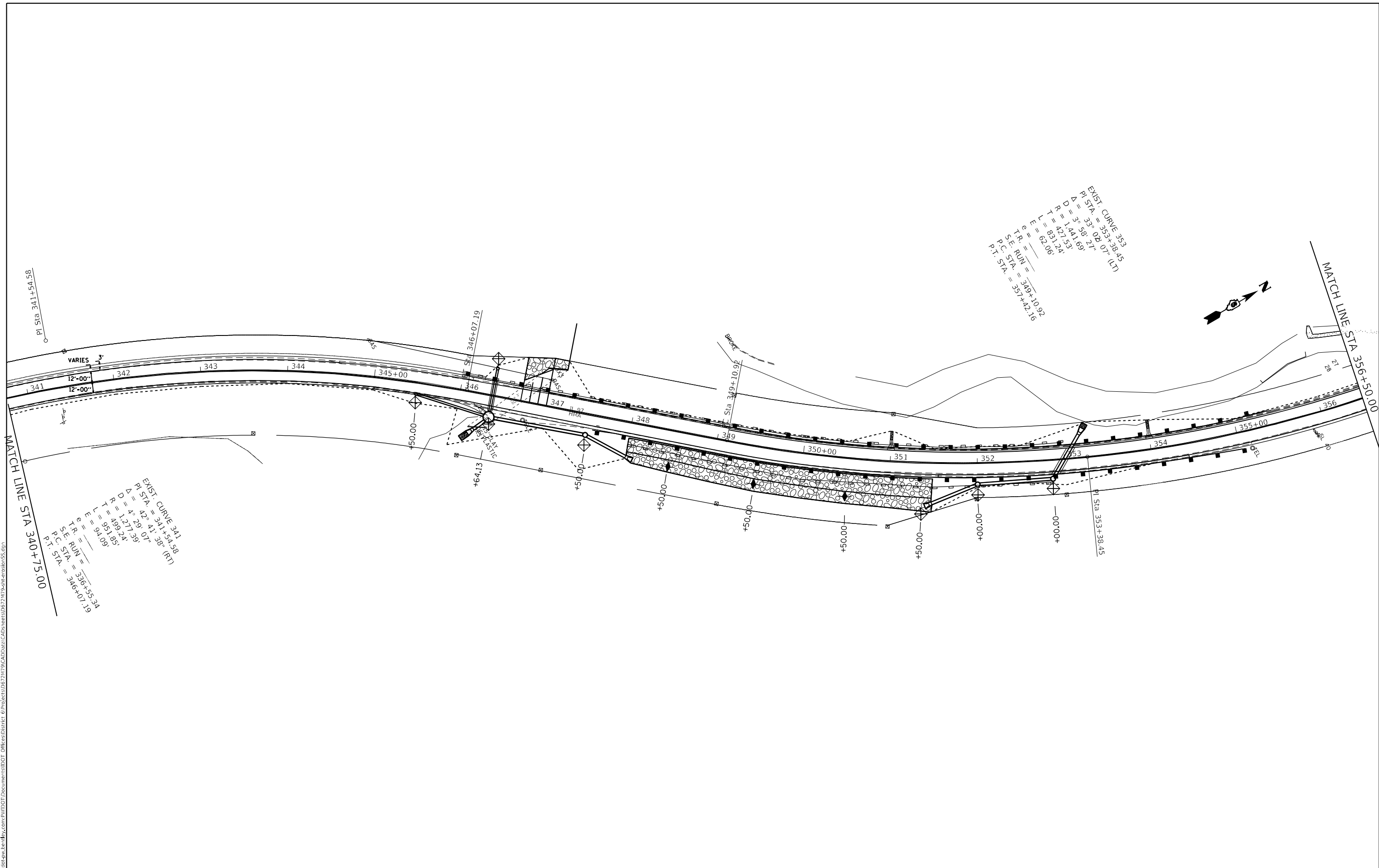
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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLTION AND PROTECTION PLAN**  
 SCALE:      SHEET 3    OF 3    SHEETS    STA.                    TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	33
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
 FILE: Mainfile.plt  
 PLOT DATE: 8/24/2023



EXIST. CURVE 353  
 PI STA = 353+38.45  
 $\Delta = 3^{\circ} 58' 07''$   
 $R = 1441.69'$   
 $T = 427.53'$   
 $L = 831.24'$   
 $E = 62.06'$   
 $T.R. = \frac{e}{R} = \frac{62.06}{1441.69} = 0.043$   
 $S.E. RUN = 349+10.97$   
 $P.C. STA. = 347+42.16$   
 $P.T. STA. = 357+42.16$

EXIST. CURVE 341  
 PI STA = 341+54.58  
 $\Delta = 42^{\circ} 41' 38''$  (RT)  
 $R = 1271.39'$   
 $T = 499.24'$   
 $L = 951.83'$   
 $E = 94.09'$   
 $T.R. = \frac{e}{R} = \frac{94.09}{1271.39} = 0.074$   
 $S.E. RUN = 336+55.34$   
 $P.C. STA. = 346+07.19$

USER NAME = Jonathan.Cox	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
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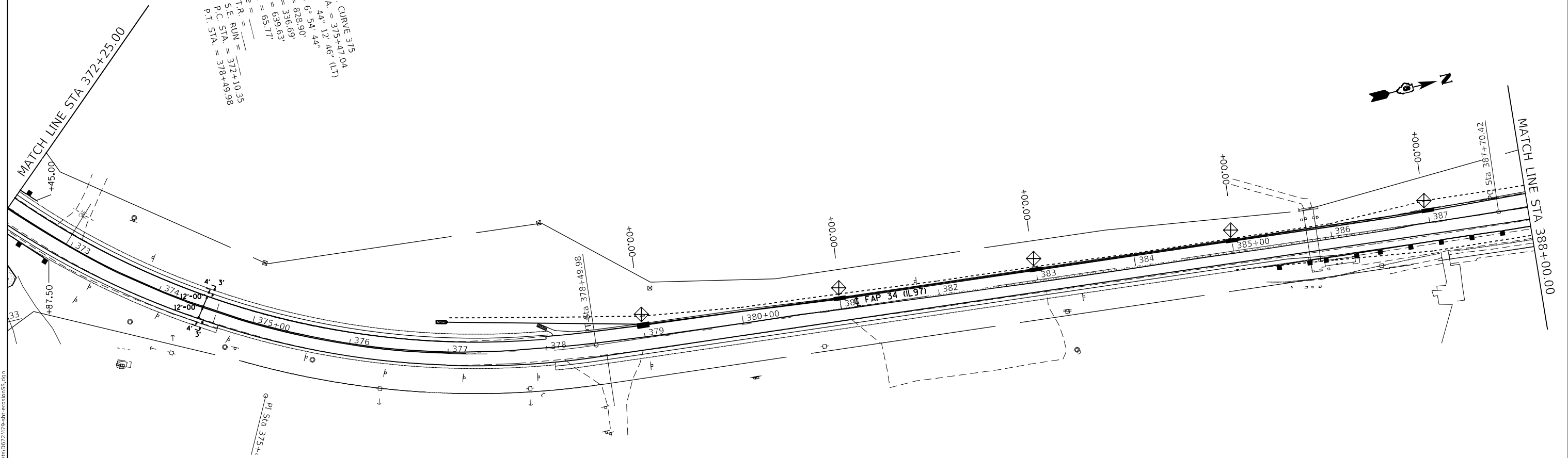
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLTION AND PROTECTION PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	34
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

EXIST. CURVE 375  
 P.I. STA. = 375+41.04  
 $\Delta = 44^\circ 12' 46''$  (LT)  
 $D = 6^\circ 54' 44''$   
 $R = 828.90'$   
 $T = 336.69'$   
 $L = 639.63'$   
 $E = 65.77'$   
 $T.R. = \frac{L^2}{2R}$   
 S.T.E. RUN = 372+10.35  
 P.C. STA. = 378+49.98  
 P.T. STA. = 372+25.00



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 DATE: 8/18/2023

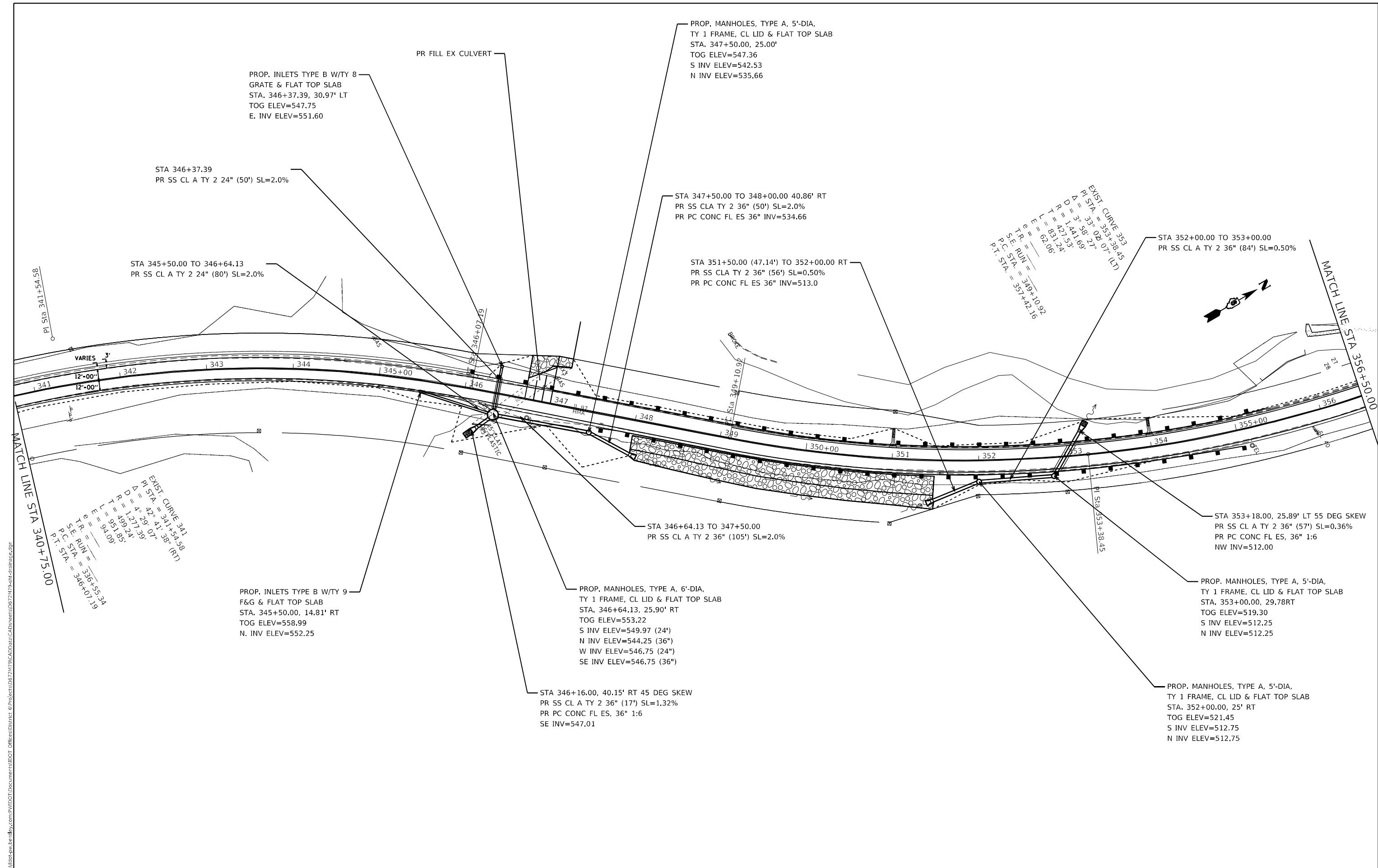
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PLOT DATE = 8/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLTION AND PROTECTION PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	



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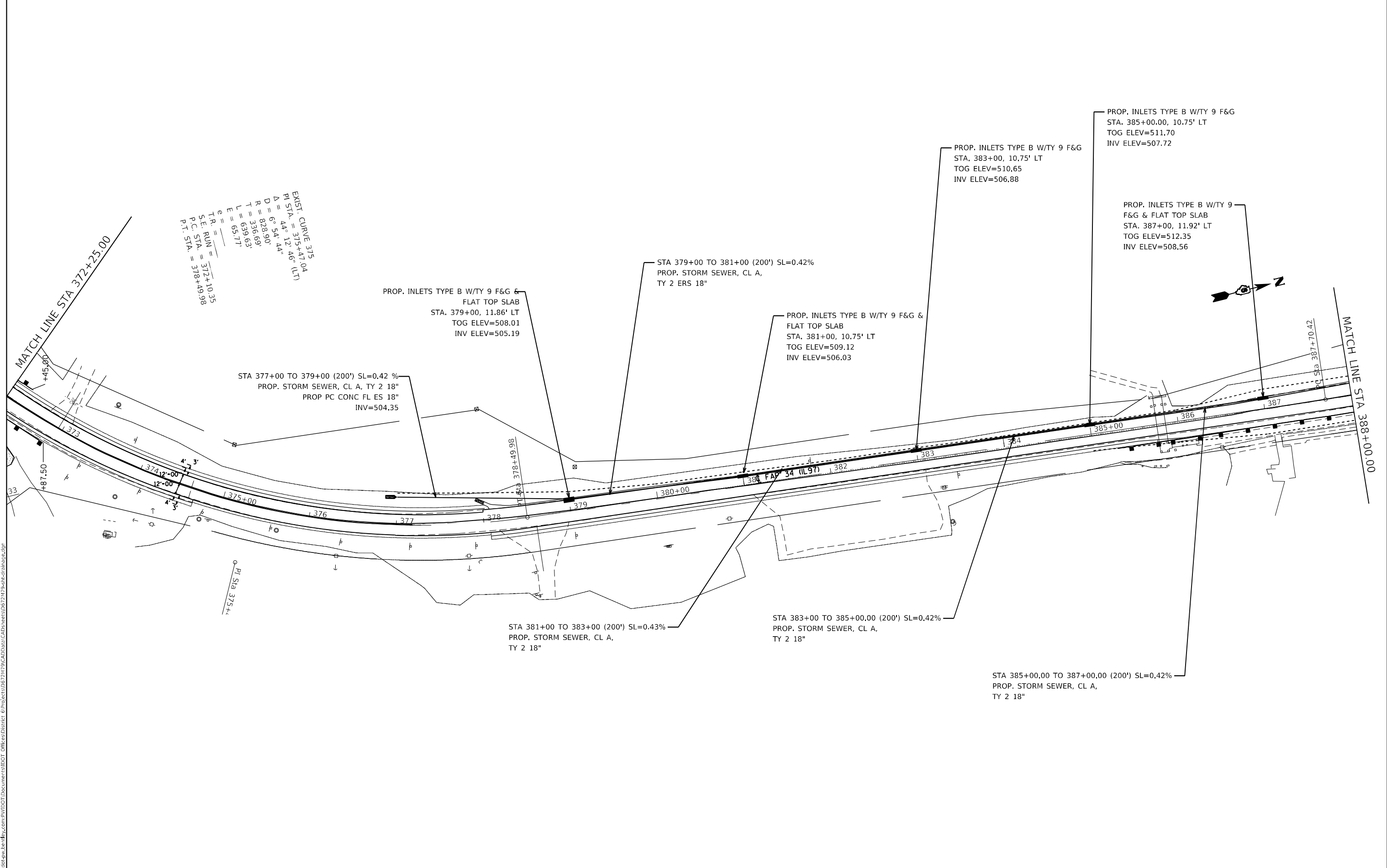
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PLOT DATE = 8/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	

EXIST. CURVE 375  
 P.I. STA. = 375+41.04  
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 $D = 6^\circ 54' 44''$   
 $R = 828.90'$   
 $T = 336.69'$   
 $L = 639.63'$   
 $e = 65.77'$   
 T.R. = \_\_\_\_\_  
 S.L. RUN = 372+10.35  
 P.C. STA. = 378+49.98  
 P.T. STA. = 378+49.98



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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

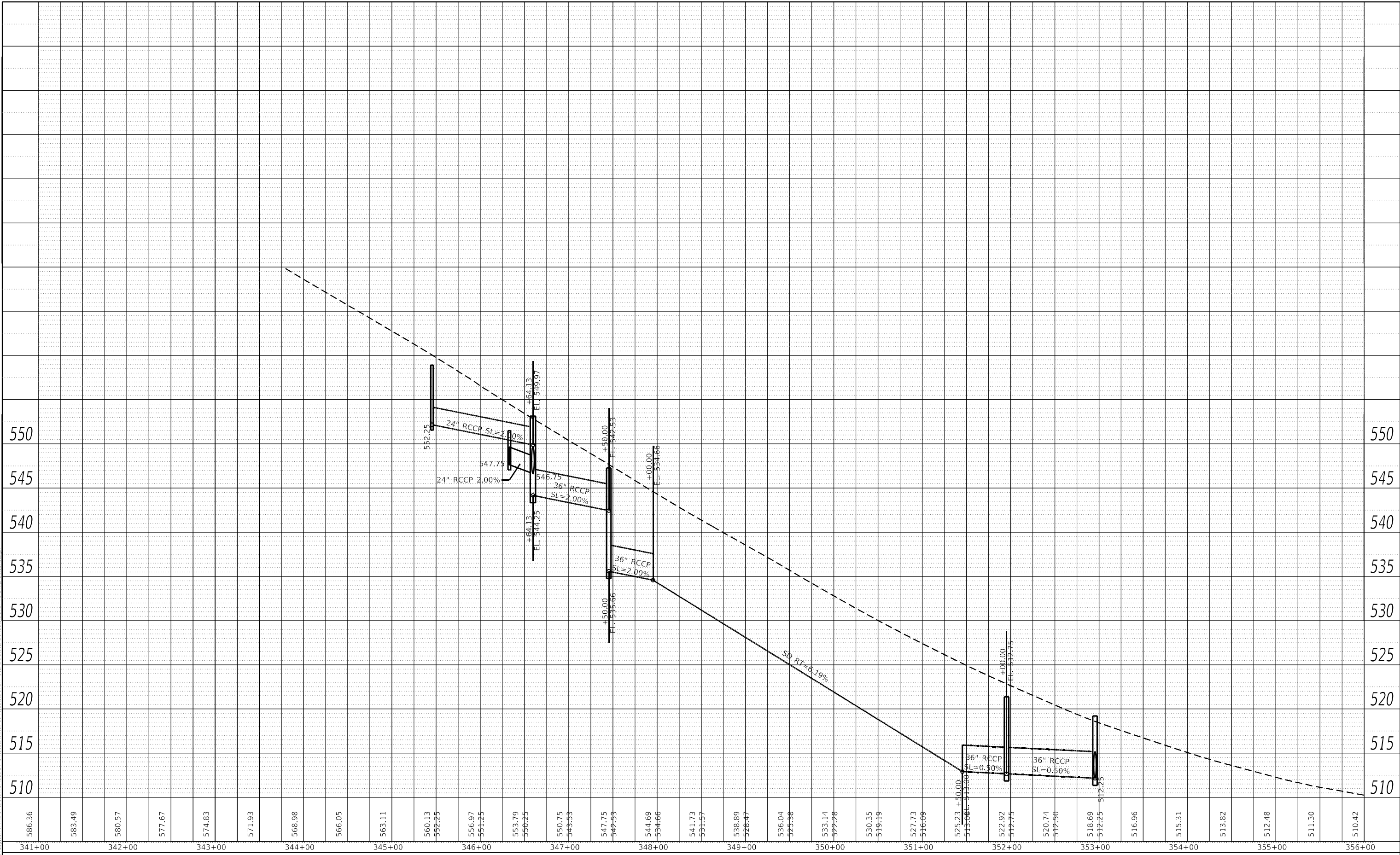
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SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	37
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATION		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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USER NAME = Jonathan Cox	DESIGNED -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PROFILES**

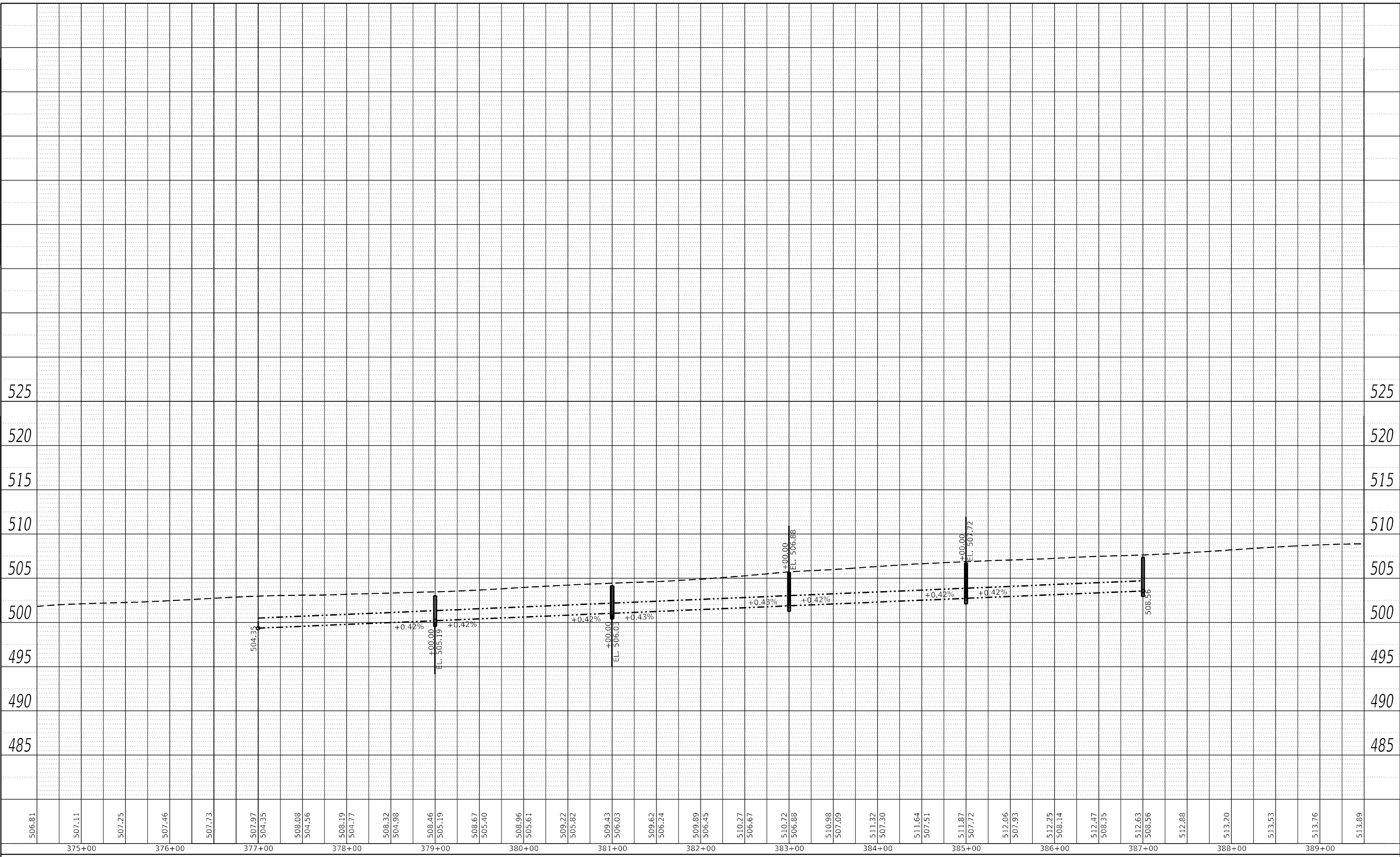
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	38
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

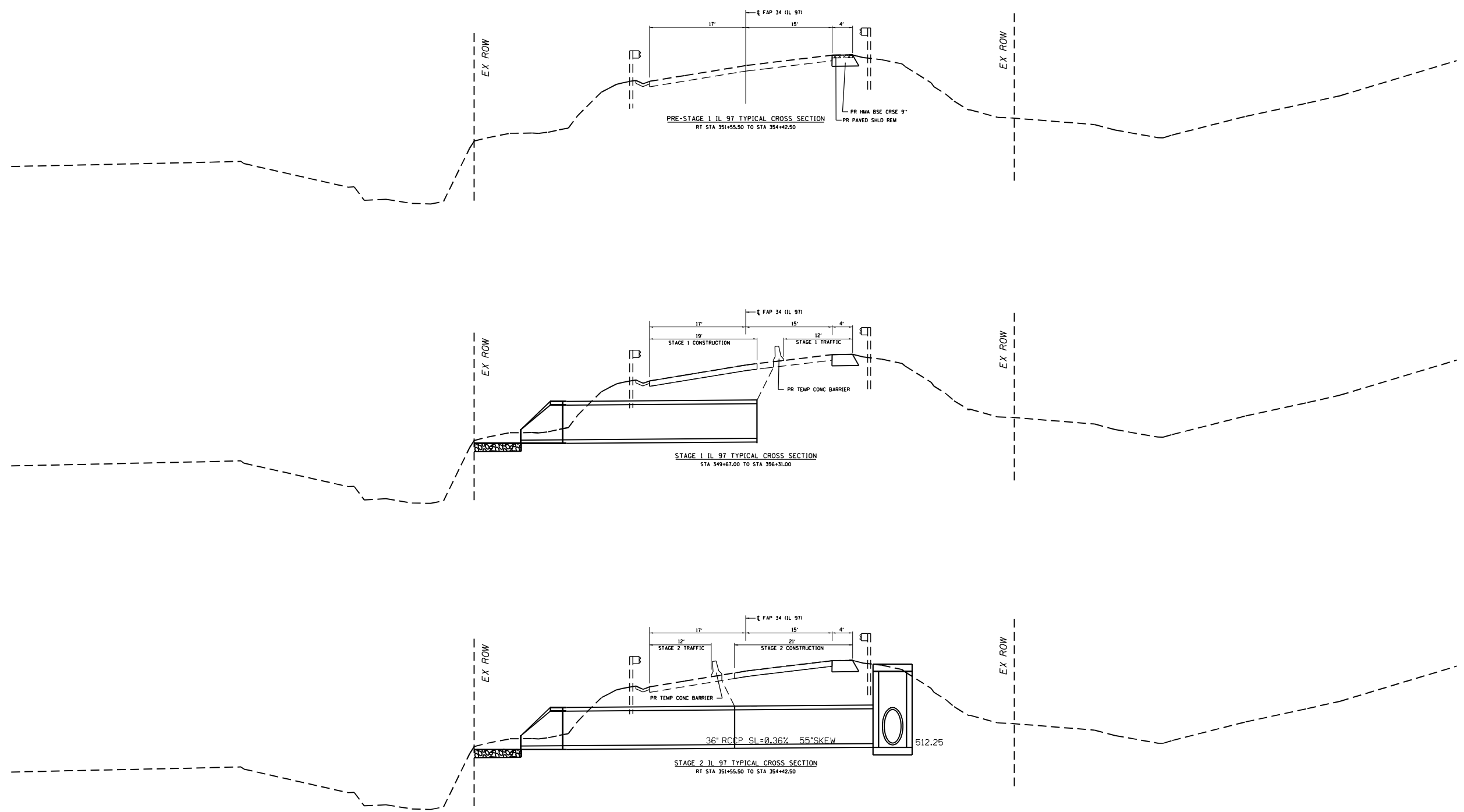
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SCALE:	SHEET 1	OF 1	SHEETS
	STA.	TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	39
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				









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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	



SEQUENCE OF OPERATIONS

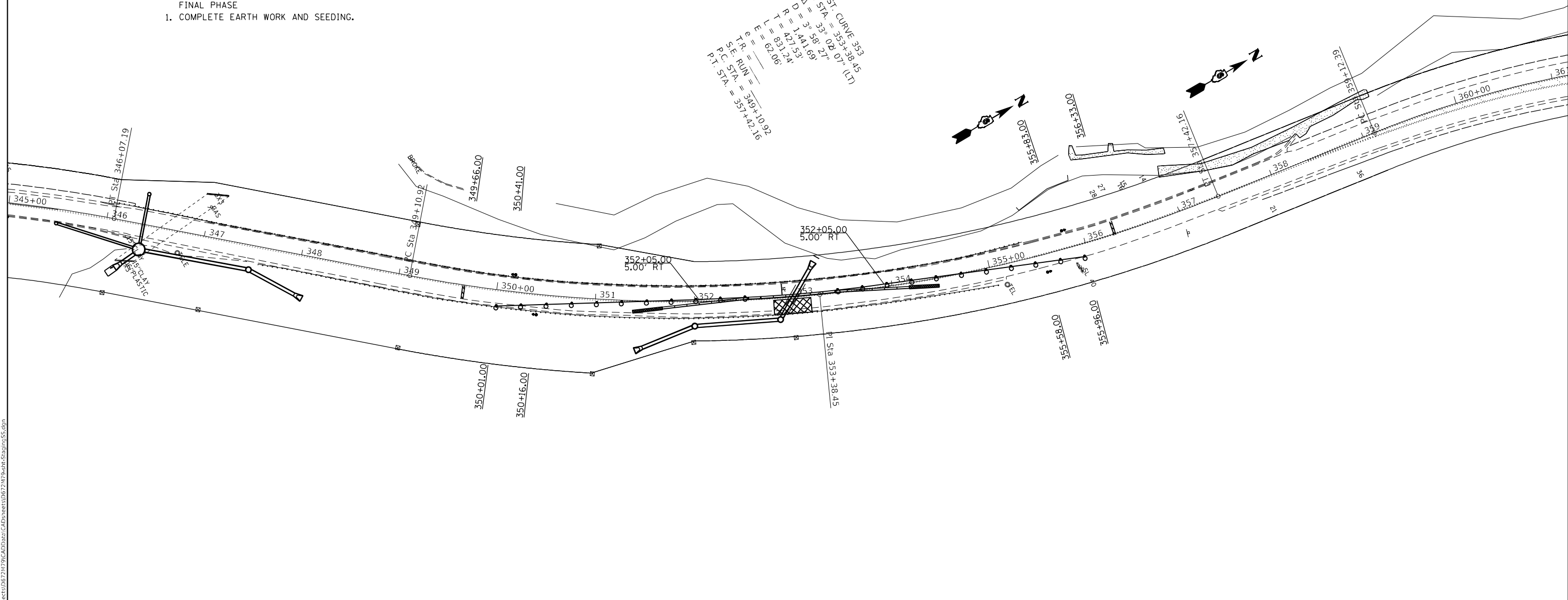
STAGE 2

1. RELOCATE TRAFFIC CONTROL DEVICES.
2. REMOVE STAGE 2 PORTION OF PAVEMENT
3. CONSTRUCT STAGE 2 PORTION OF PIPE CULVERT AND REPLACE PAVEMENT.
4. REMOVE TRAFFIC CONTROL DEVICES AND OPEN IL 97 TO TRAFFIC.






FINAL PHASE

1. COMPLETE EARTH WORK AND SEEDING.

EXIST. CURVE 353  
 BY STA. = 353+38.45  
 $\Delta = 33^{\circ} 02' 07"$  (LT)  
 $R = 338.27'$   
 $D = 1441.69'$   
 $T = 427.53'$   
 $L = 831.24'$   
 $E = 62.06'$   
 $TR = 349+10.92$   
 $S.E. RUN = 349+10.92$   
 $P.C. STA. = 357+42.16$



**SYMBOLS**

	Work area		Drum with steady burning bi-directional light
	Traffic signal		Temporary concrete barrier
	Impact attenuator		

SEE STANDARD 701321 FOR DETAILS NOT SHOWN

ERECT TYPE III BARRICADES AS SHOWN ON STANDARD 701901

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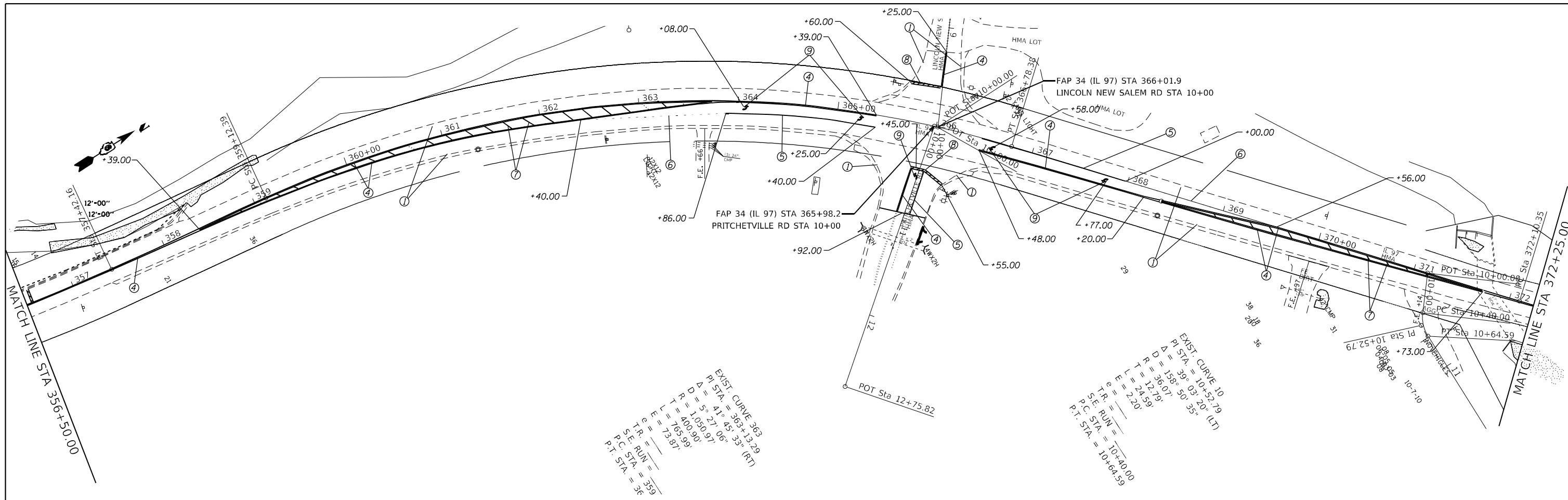
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2 PLAN DETAIL**

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

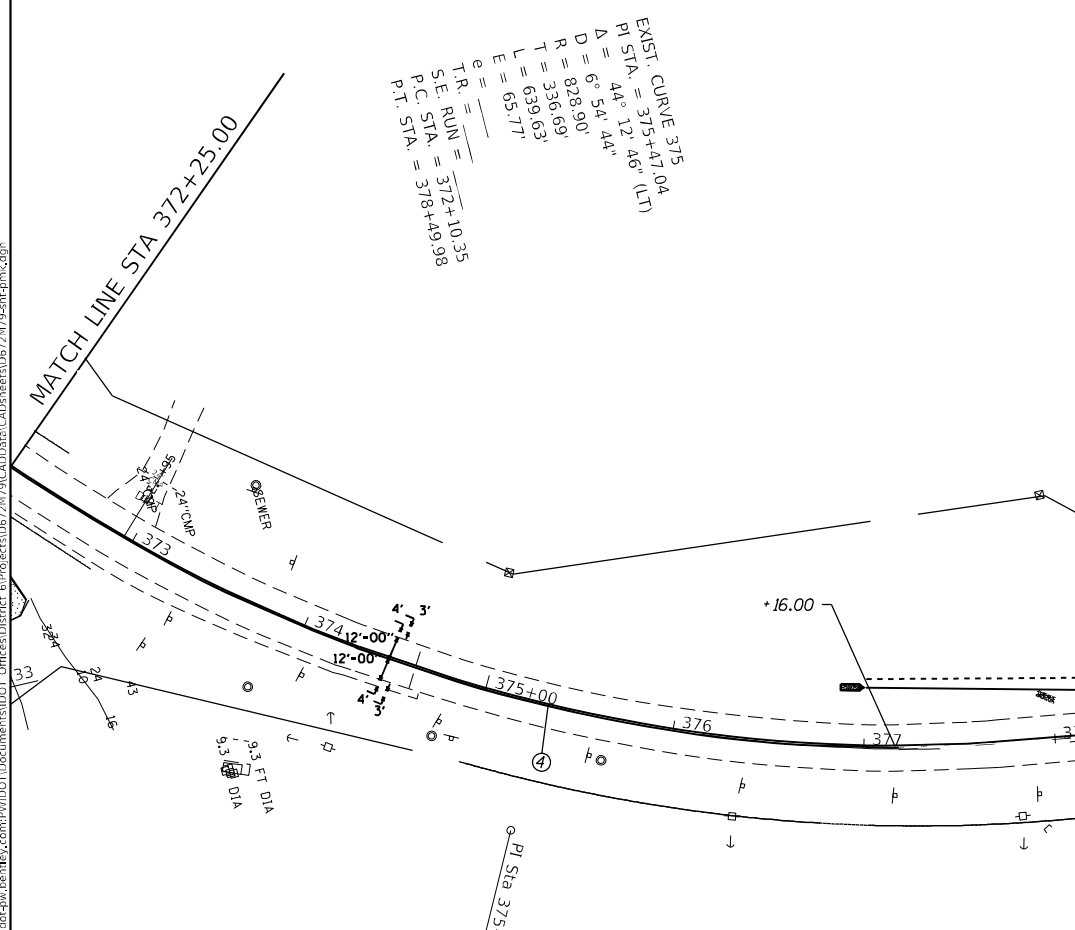
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	





EXIST. CURVE 363  
 PI STA. = 363+13.29  
 D = 41° 45' 33" (RT)  
 Δ = 5° 27' 06"  
 R = 1,050.97'  
 T = 400.90'  
 L = 165.99'  
 E = 73.87'  
 T.R. =  
 S.E. RUN = 359  
 P.C. STA. = 36  
 P.T. STA. = 36

EXIST. CURVE 10  
 PI STA. = 10+52.79  
 D = 39° 03' 20" (LT)  
 Δ = 158° 50' 35"  
 R = 36.07'  
 T = 12.19'  
 L = 24.59'  
 E = 2.20'  
 T.R. =  
 S.E. RUN = 10+40.00  
 P.C. STA. = 10+64.59  
 P.T. STA. = 10+40.00



EXIST. CURVE 375  
 PI STA. = 375+47.04  
 D = 44° 12' 46" (LT)  
 Δ = 6° 54' 44"  
 R = 828.90'  
 T = 336.69'  
 L = 639.63'  
 E = 65.77'  
 T.R. =  
 S.E. RUN = 372+10.35  
 P.C. STA. = 378+49.98  
 P.T. STA. = 378+49.98

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (SOLID EDGE WHITE LINE)
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (SOLID YELLOW LINE)
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (YELLOW SKIP-DASH)
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW LINE)
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SOLID WHITE LINE)
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (DOTTED LINE FOR TURN LANE)
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW CHEVERON)
- ⑧ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID - LINE 24" (STOP BAR)
- ⑨ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID L & S (TURN ARROWS)

USER NAME = Jonathan.Cox	DESIGNED -	REVISED -
DRAWN -	REVISED -	
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PLOT DATE = 8/18/2023	DATE -	REVISED -

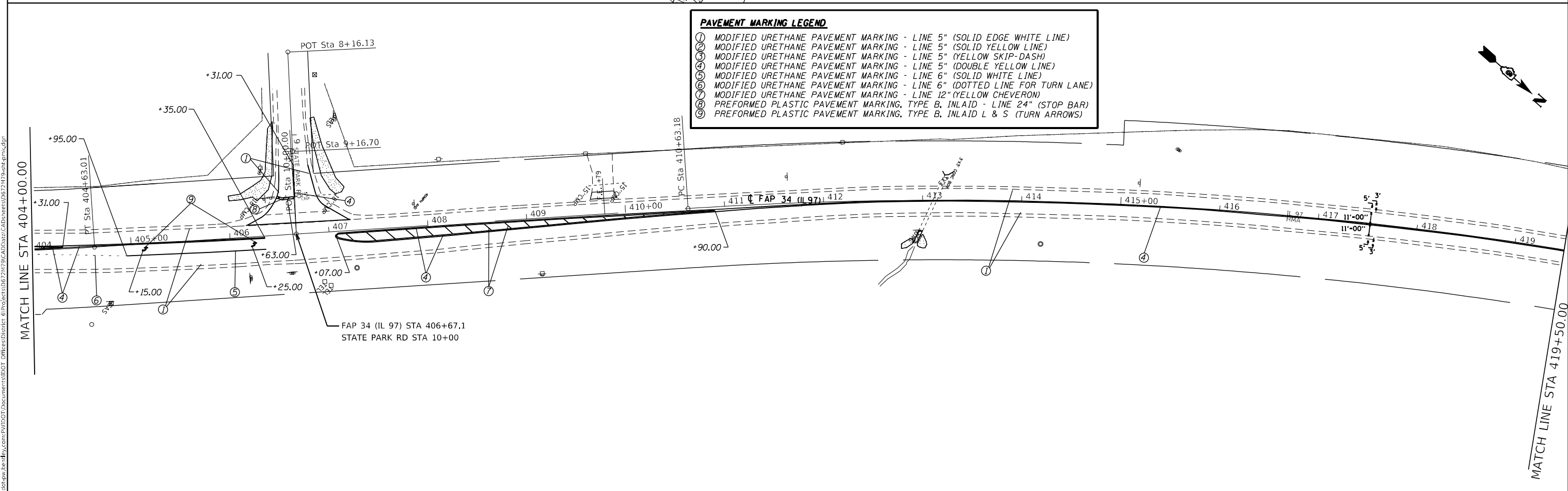
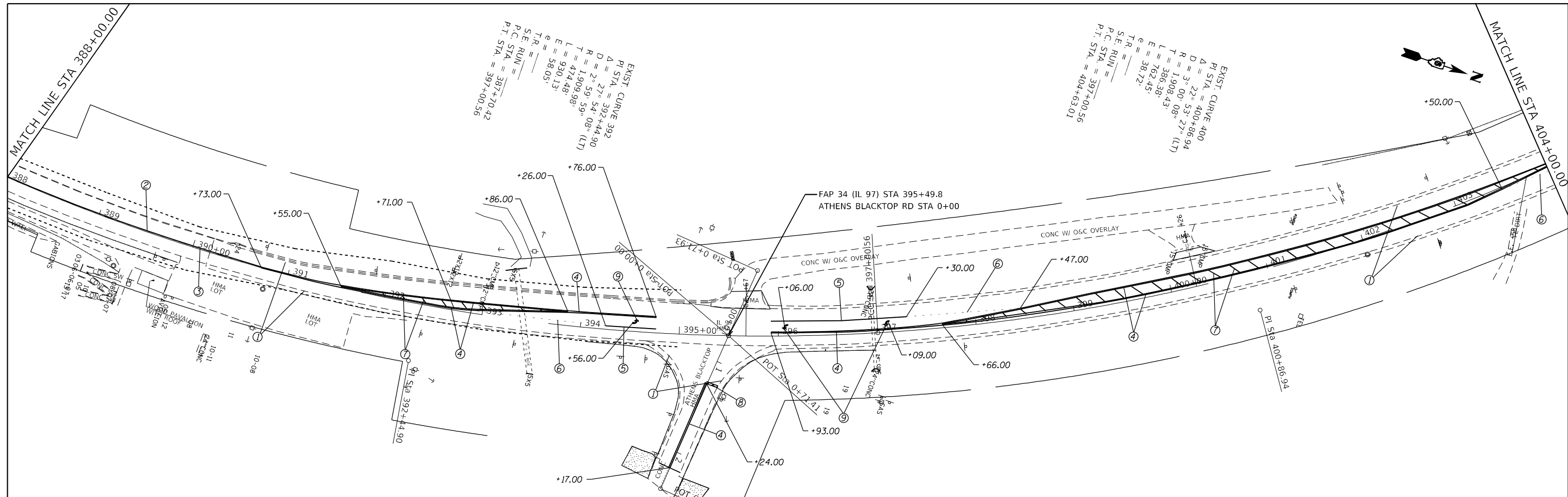
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING DETAILS**

SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV-I-1	MENARD	121	46
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

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 PLOT SHEET: 2 OF 4  
 PLOT STA: 356+50.00 TO 388+00.00  
 PLOT DATE: 8/18/2023 10:00:00 AM  
 PLOT SCALE: 100,000' / in.  
 PLOT SHEET: 2 OF 4  
 PLOT STA: 356+50.00 TO 388+00.00



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USER NAME = Jonathan Cox	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
	DATE -	REVISED -

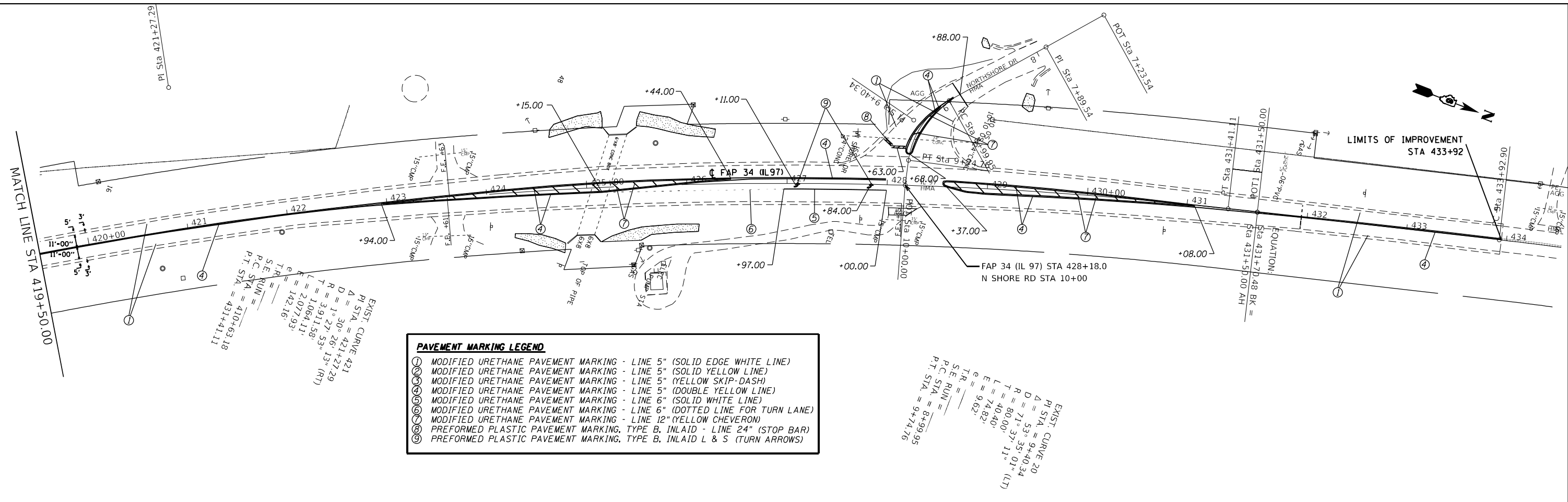
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	47
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

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EXIST. CURVE 421  
 P.I. STA. = 421+27.29  
 Δ = 30° 42' 27.29"  
 D = 1° 27' 53.13" (RT)  
 T = 3,911.58'  
 L = 1,064.11'  
 E = 2,077.93'  
 e = 142.16'  
 S.E. RUN =  
 P.C. STA. = 410+63.18  
 P.T. STA. = 431+41.11

PAVEMENT MARKING LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (SOLID EDGE WHITE LINE)
②	MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (SOLID YELLOW LINE)
③	MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (YELLOW SKIP-DASH)
④	MODIFIED URETHANE PAVEMENT MARKING - LINE 5" (DOUBLE YELLOW LINE)
⑤	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SOLID WHITE LINE)
⑥	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (DOTTED LINE FOR TURN LANE)
⑦	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW CHEVERON)
⑧	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID - LINE 24" (STOP BAR)
⑨	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID L & S (TURN ARROWS)

EXIST. CURVE 20  
 P.I. STA. = 9+40.34  
 Δ = 53° 35' 01.1" (LT)  
 D = 71° 37' 11.1" (LT)  
 T = 80,000'  
 L = 40,000'  
 E = 74,820'  
 e = 9,620'  
 S.E. RUN =  
 P.C. STA. = 8+99.95  
 P.T. STA. = 9+74.76

USER NAME = Jonathan.Cox	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS			
SCALE:	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	48
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				





Benchmark: CB-6, chiseled "L" at the center of the 8" concrete wall of west end 12" corrugated metal pipe outlet to 7x6 box culvert under IL97, 0.88 miles north of IL123. Station ±297+73.7, Offset ±33.8' LT, Elev. 586.393.

Existing Structure: SN 065-7010 is a 6' x 5' reinforced concrete box culvert and was constructed circa 1927. Roadway will remain open during culvert extension work. See Roadway Plans for traffic control.

No salvage.

**DESIGN STRESSES**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

**DESIGN SPECIFICATIONS**

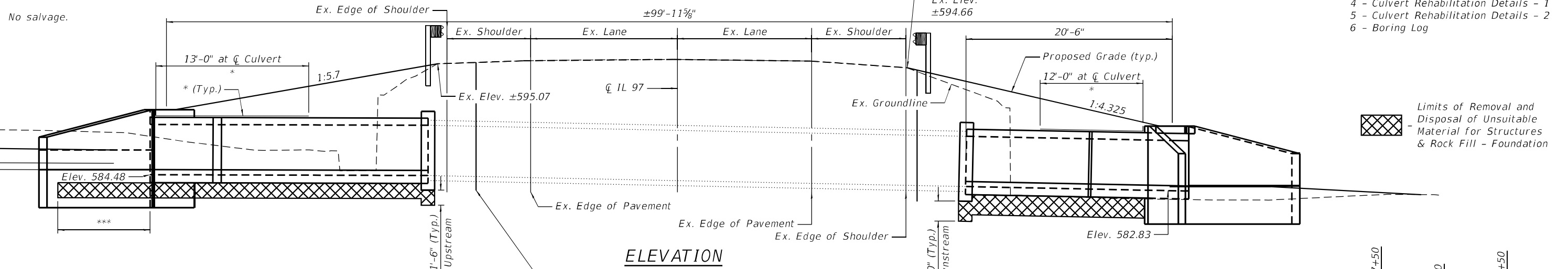
2020 AASHTO LRFD Bridge  
 Design Specifications, 9th Edition

**LOADING HL-93**

Design Fill Height = 8'

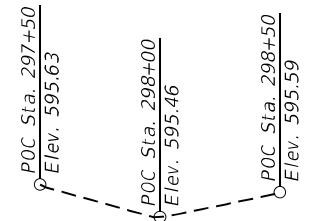
**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Culvert Removal Details
- 4 - Culvert Rehabilitation Details - 1
- 5 - Culvert Rehabilitation Details - 2
- 6 - Boring Log



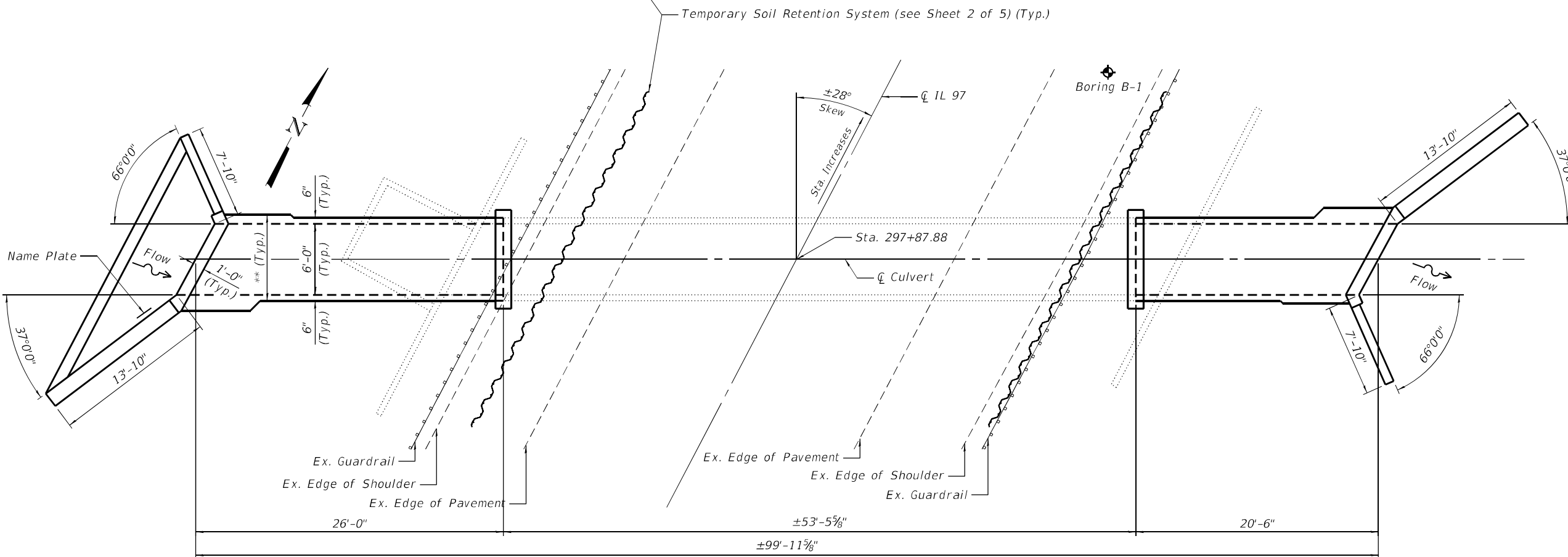
**ELEVATION**

Limits of Removal and Disposal of Unsuitable Material for Structures & Rock Fill - Foundation

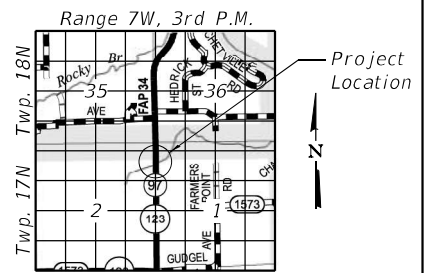


**EXISTING PROFILE GRADE**

Along CL IL 97



**PLAN**



**LOCATION SKETCH**

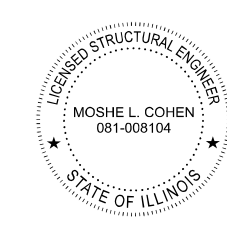
STATION 297+87.88  
 REBUILT 2021 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 34  
 SEC. (101) RS-13  
 LOADING HL-93  
 STR. NO. 065-7010

**NAME PLATE**  
 See Std. 515001

**GENERAL PLAN AND ELEVATION**  
**IL RTE. 97 OVER UNNAMED DITCH**  
**F.A.P. RTE. 34 SEC. (101) RS-13**  
**MENARD COUNTY**  
**STATION 297+87.88**  
**S.N. 065-7010**

- Notes:
- \* Membrane Waterproofing System for Buried Structures
  - \*\* Limits of Removal and Disposal of Unsuitable Material for Structures & Rock Fill - Foundation
  - \*\*\* 1'-6" Depth of Removal and Disposal of Unsuitable Material for Structures & Rock Fill - Foundation under the Drop Slab on the Upstream end of the Culvert.

Signed: *Moshe L. Cohen*  
 Dated: 2023-09-27  
 Illinois Structural Engineer  
 No. 081-008104  
 License Expires: 11-30-2024



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET 1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	50
CONTRACT NO. 72M79				

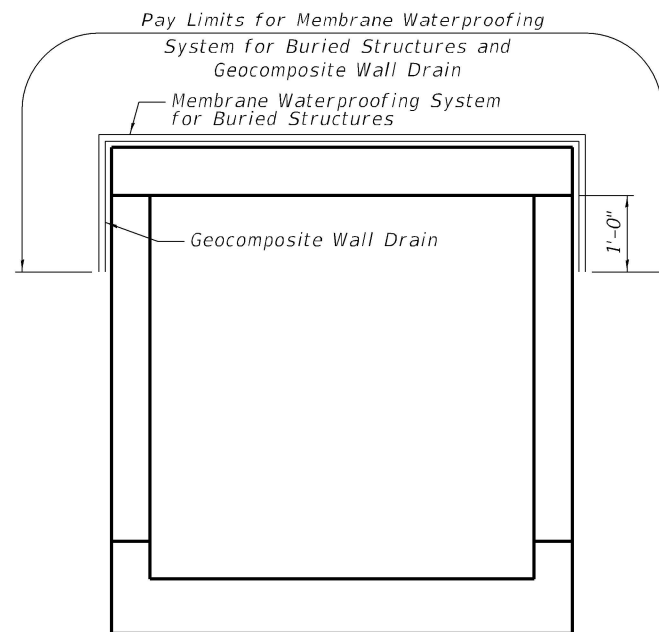
ILLINOIS FED. AID PROJECT

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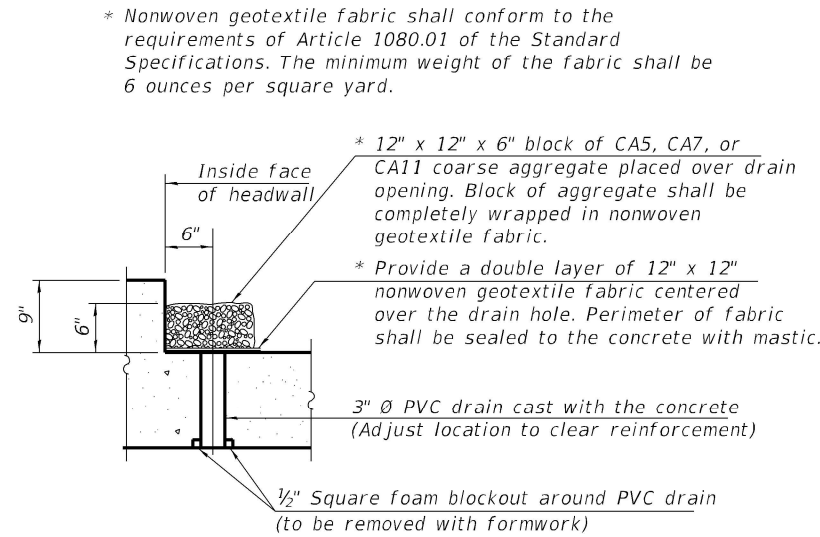
**GENERAL NOTES**

All construction joints shall be bonded.  
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variation shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 The limits and quantities of Removal and Disposal of Unsuitable Materials for Structures and Rock Fill - Foundation shown are based on the boring data and may be modified by the Engineer for variable subsurface conditions encountered in the field.  
 Precast option is not allowed.  
 All exposed concrete edges shall have a standard 3/4" chamfer unless noted otherwise.

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	17.7
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	26
Reinforcement Bars	Pound	9,340
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	789
Concrete Box Culverts	Cu. Yd.	55.8
Geocomposite Wall Drain	Sq. Yd.	31
Membrane Waterproofing System for Buried Structures	Sq. Yd.	31
Rock Fill - Foundation	Ton	35

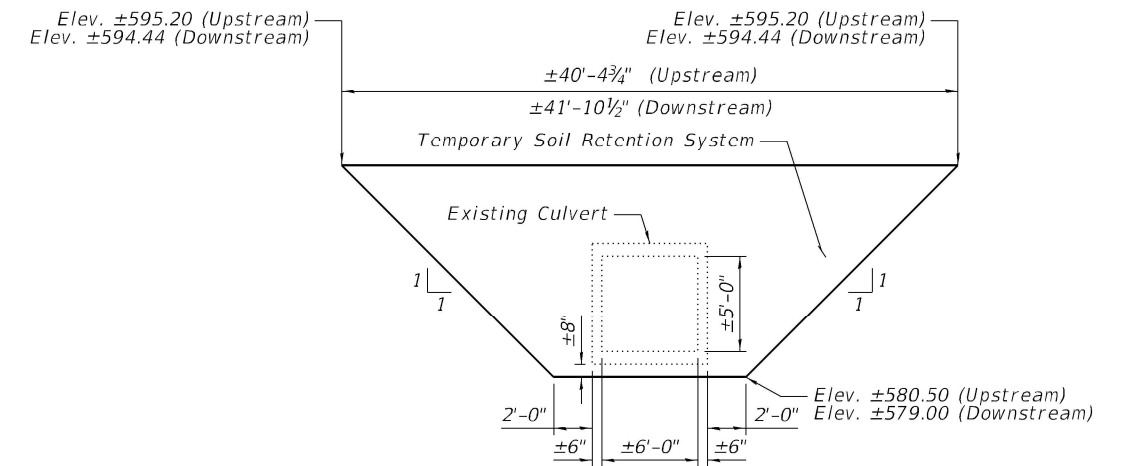


**SECTION THRU BARREL**  
 Showing limits of Membrane Waterproofing System for Buried Structures and Geocomposite Wall Drain.



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



**Temporary Soil Retention System**

(Showing Approximate Limits)  
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

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**Kaskaskia**  
 Engineering Group, LLC  
 200 E. Main St., Suite 300  
 Macomb, Illinois 61455  
 618.553.2877  
 618.553.2877  
 www.kaskaskiaeng.com

USER NAME =	DESIGNED - MMC	REVISED -
CHECKED - MLC	CHECKED - MLC	REVISED -
PLOT SCALE =	DRAWN - MMC	REVISED -
PLOT DATE =	CHECKED - MLC	REVISED -

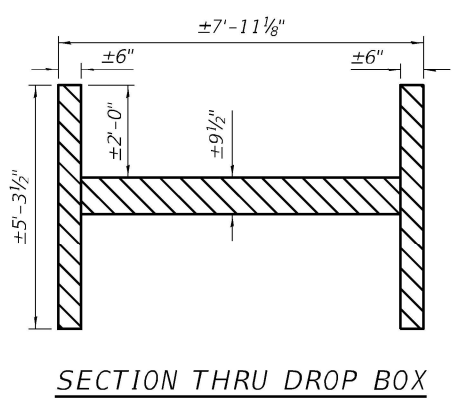
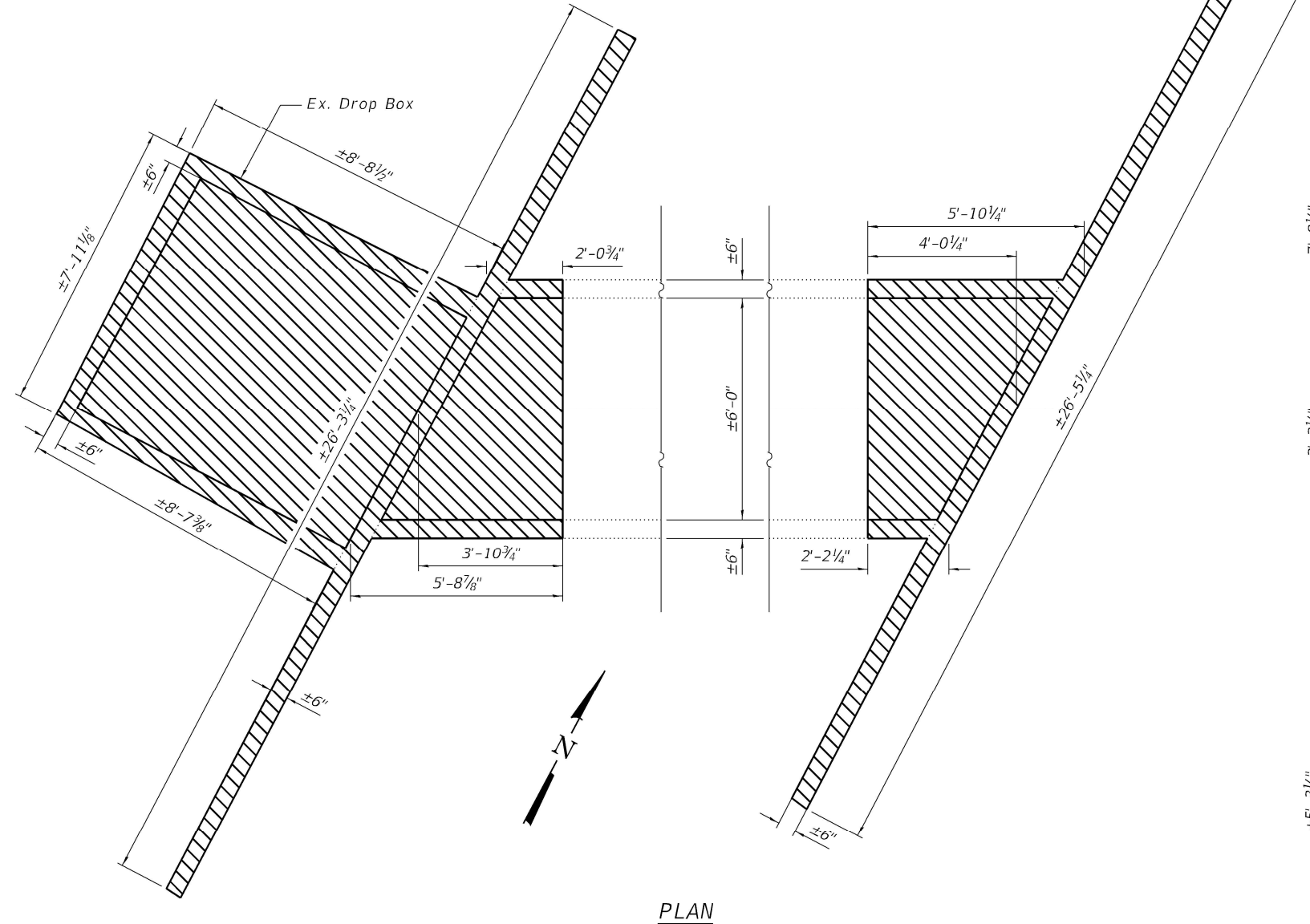
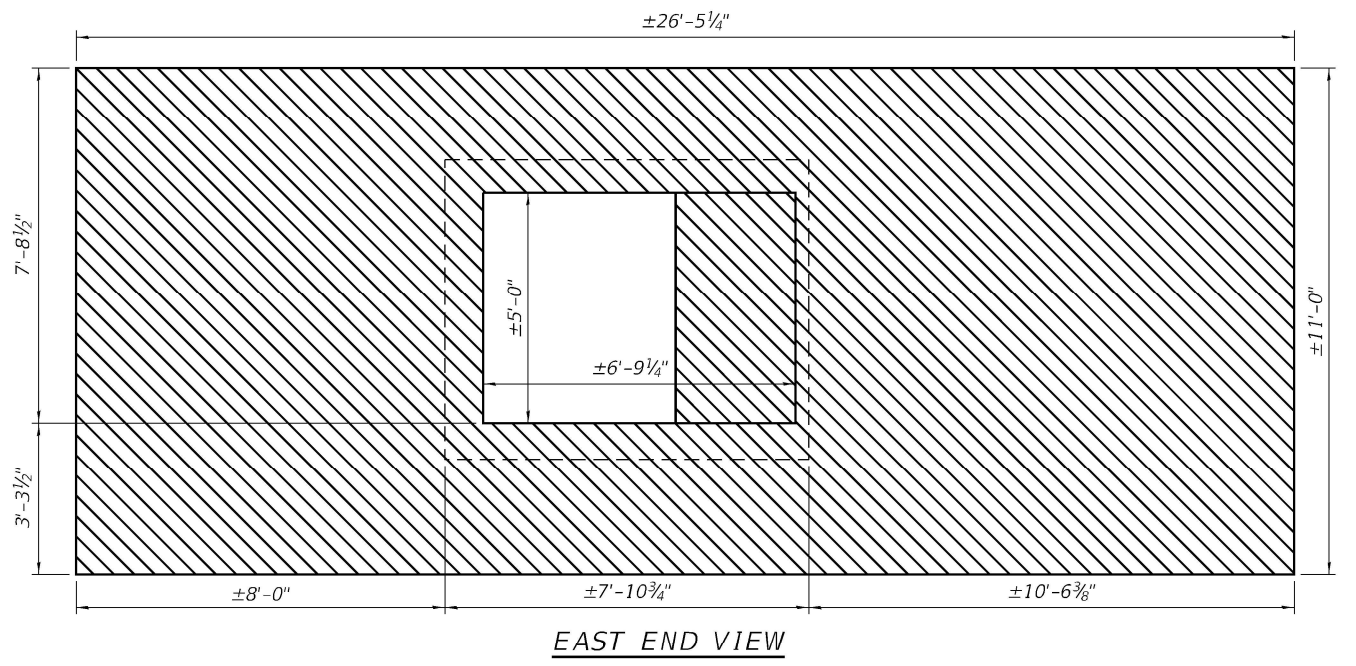
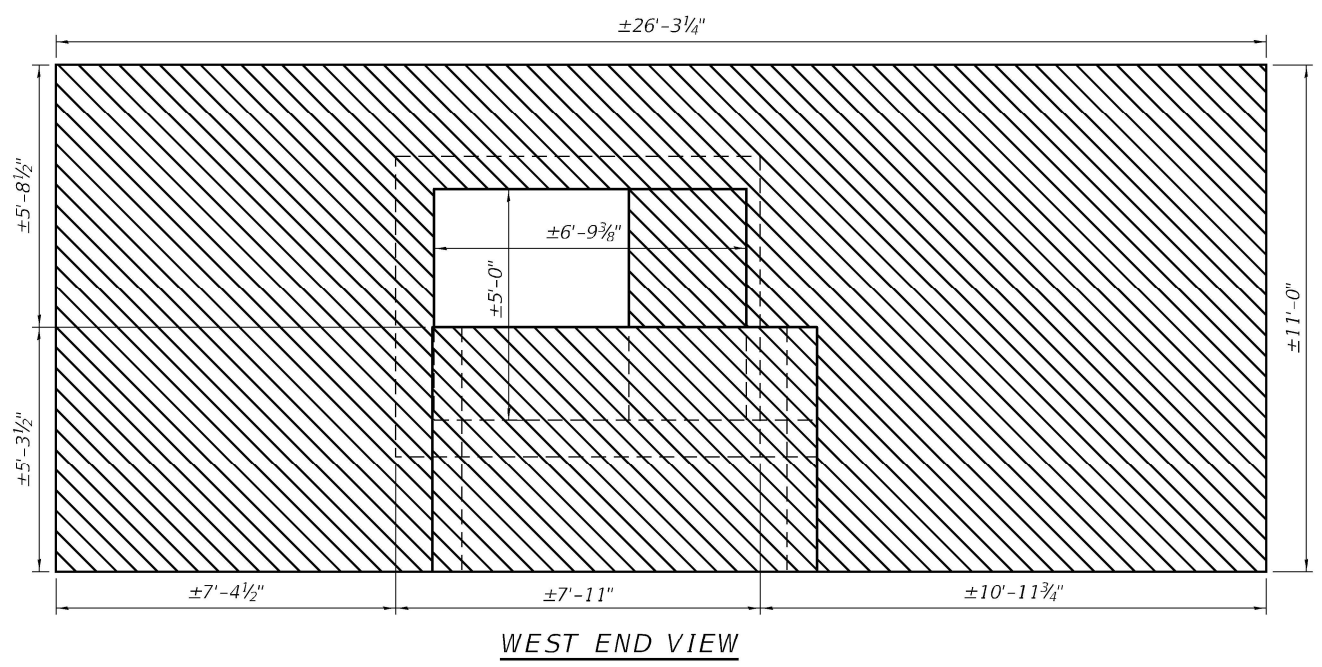
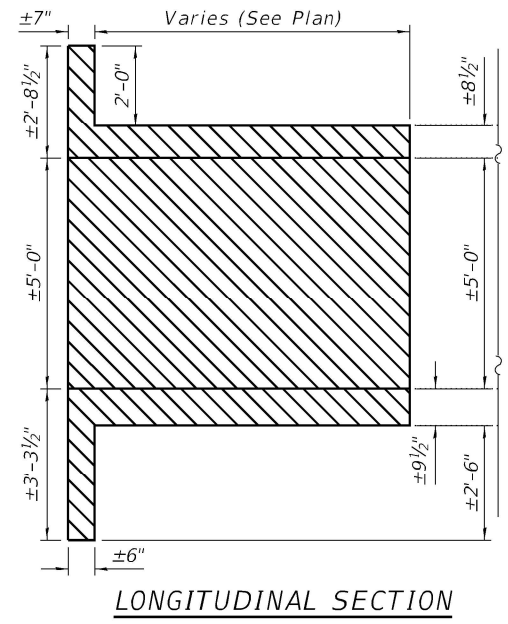
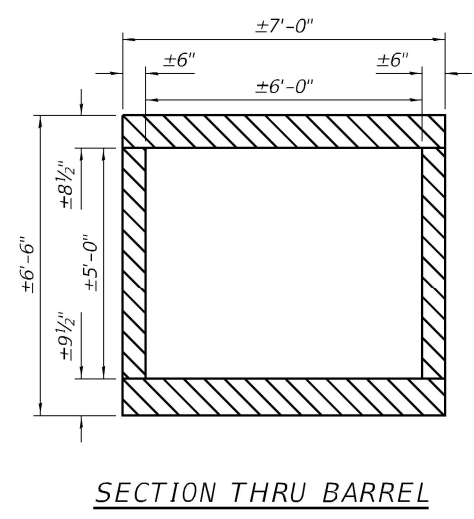
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 065-7010**

SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	51
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

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- Concrete Removal

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	17.7

**Kaskaskia**  
 Engineering Group LLC  
 1870 N. 1st St.  
 Mokena, IL 60449  
 (815) 481-1000  
 www.kaskaskiaeng.com

USER NAME =	DESIGNED - MMC	REVISED -
PLOT SCALE =	CHECKED - MLC	REVISED -
PLOT DATE =	DRAWN - MMC	REVISED -
	CHECKED - MLC	REVISED -

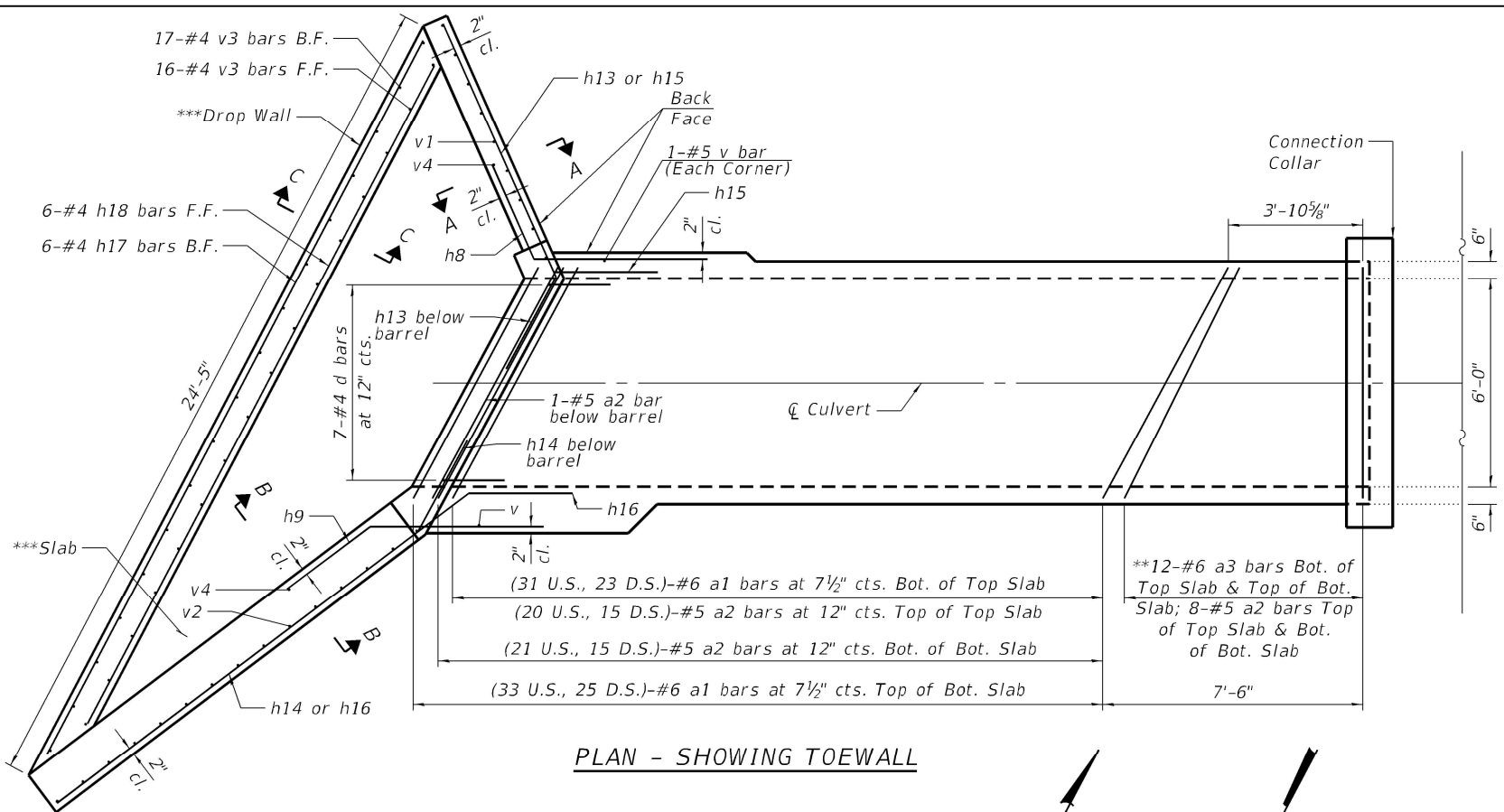
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT REMOVAL DETAILS  
 STRUCTURE NO. 065-7010**

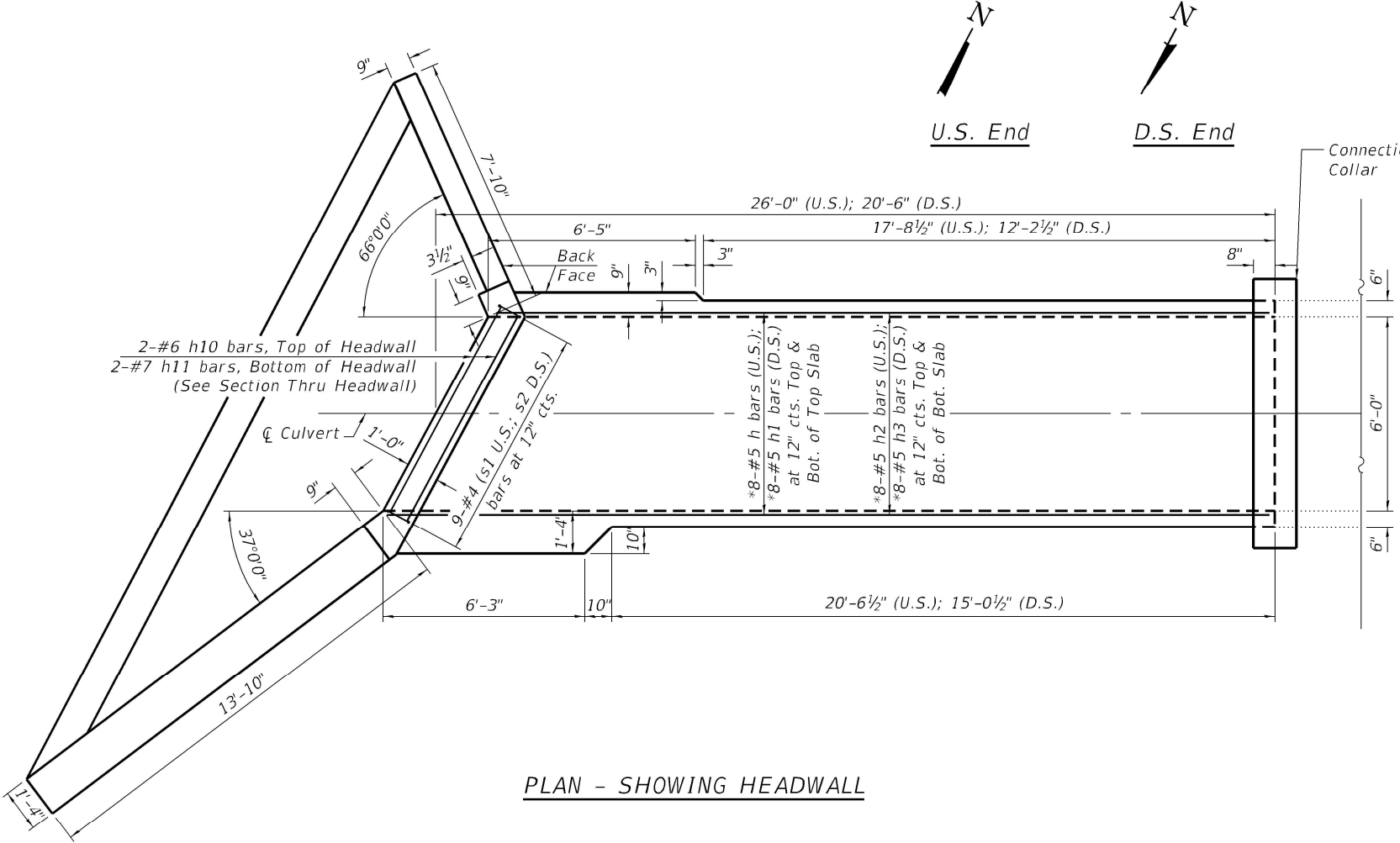
SHEET 3 OF 6 SHEETS

F.A.P. RTE. 34	SECTION (101) RS-13	COUNTY MENARD	TOTAL SHEETS 121	SHEET NO. 52
CONTRACT NO. 72M79				
		ILLINOIS FED. AID PROJECT		

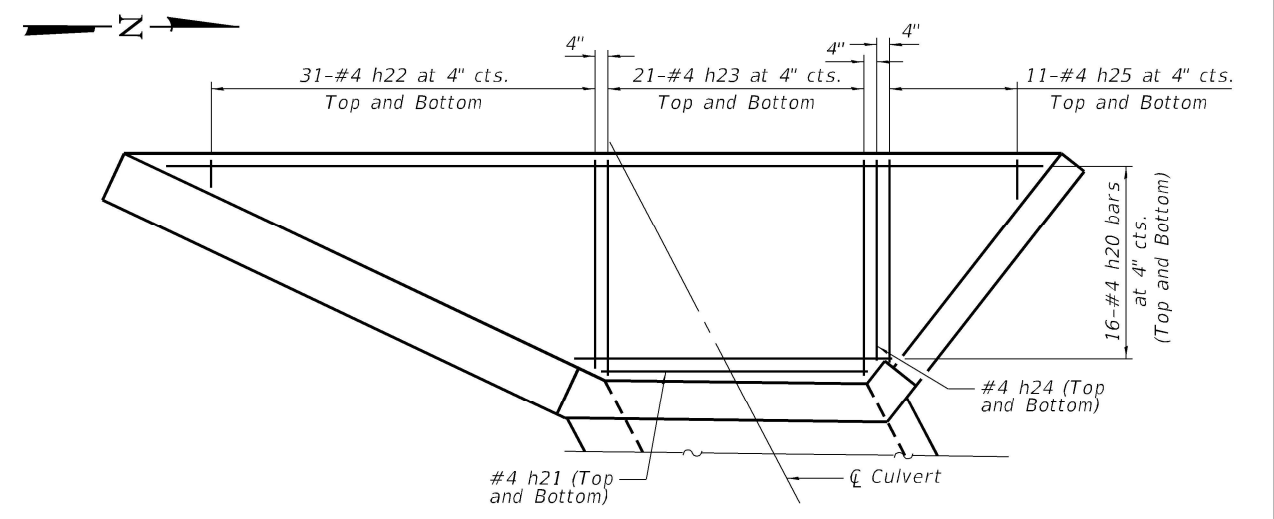
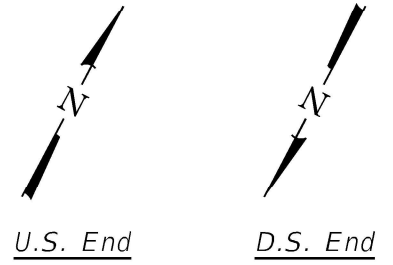
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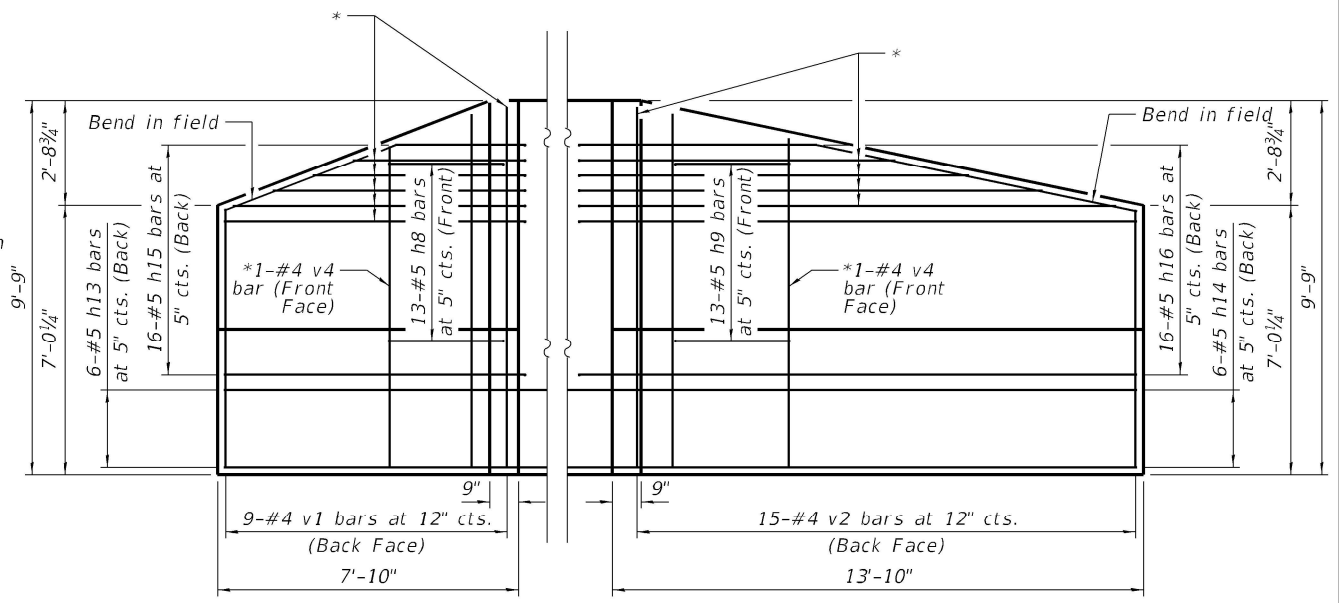
PLAN - SHOWING TOEWALL



PLAN - SHOWING HEADWALL



PLAN - SHOWING SLAB REINFORCEMENT



END VIEW AT WINGS  
 East Wings shown, West Wings similar

Notes:  
 \* Cut to fit in field.  
 \*\* The transverse reinforcement bars in this designated section of the top and bottom slab of the culvert barrel shall be flared. To account for this, the a2 bars shall be cut to fit in field, and the a3 bars shall be cut to fit and bent in field. The #6 a3 bars shall be bent for a standard 180° end hook on each end. The spacing of the a2 or a3 bars in this section is equal to the dimensioned length on that side of the culvert barrel divided by the designated number of a2 or a3 bars. The last a2 or a3 bar at the end of the culvert barrel shall be perpendicular to the  $\varnothing$  Culvert.  
 \*\*\* Drop wall and slab are only proposed at the U.S. end of the culvert. There is no proposed drop wall and slab at the D.S. end of the culvert.  
 U.S. denotes upstream.  
 D.S. denotes downstream.  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
 See sheet 5 of 5 for section views, reinforcement details, & Bill of Material.  
 One drain hole shall be provided in each wingwall located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

**Kaskaskia**  
 Engineering Group LLC  
 11700 N. Lincoln Ave.  
 Moline, IL 61704  
 309-441-1111

USER NAME =	DESIGNED - MMC	REVISED -
CHECKED - MLC	REVISED -	
PLOT SCALE =	DRAWN - MMC	REVISED -
PLOT DATE =	CHECKED - MLC	REVISED -

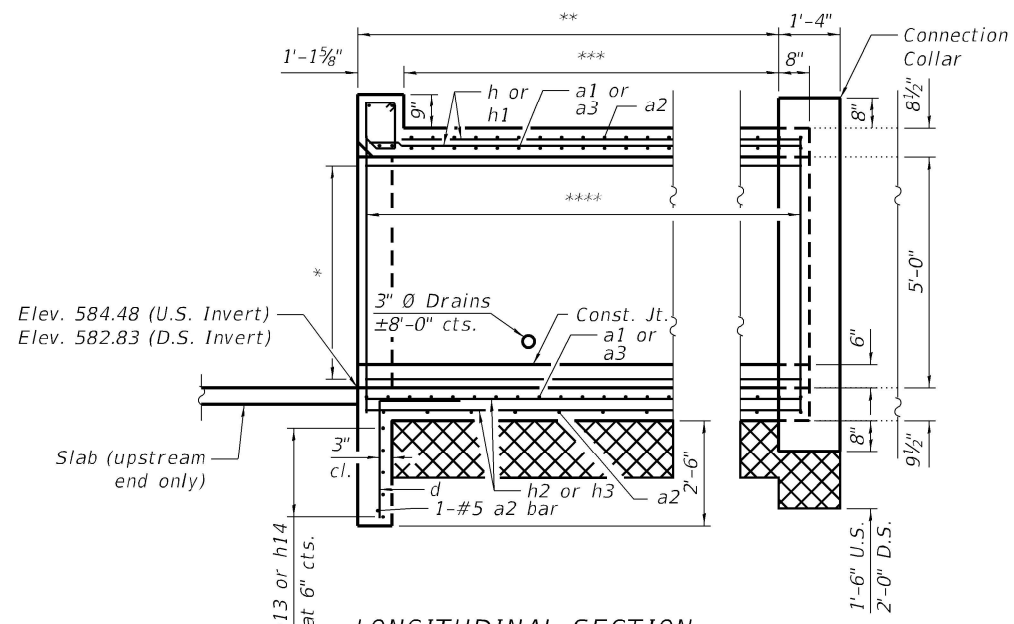
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT REHABILITATION DETAILS - 1  
 STRUCTURE NO. 065-7010**

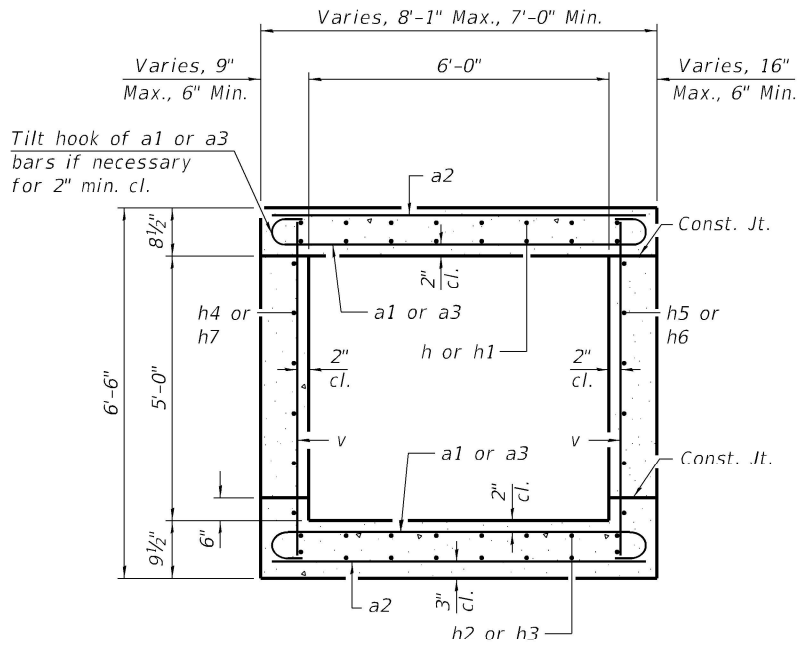
SHEET 4 OF 6 SHEETS

F.A.P. RTE. = 34	SECTION = (101) RS-13	COUNTY = MENARD	TOTAL SHEETS = 121	SHEET NO. = 53
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

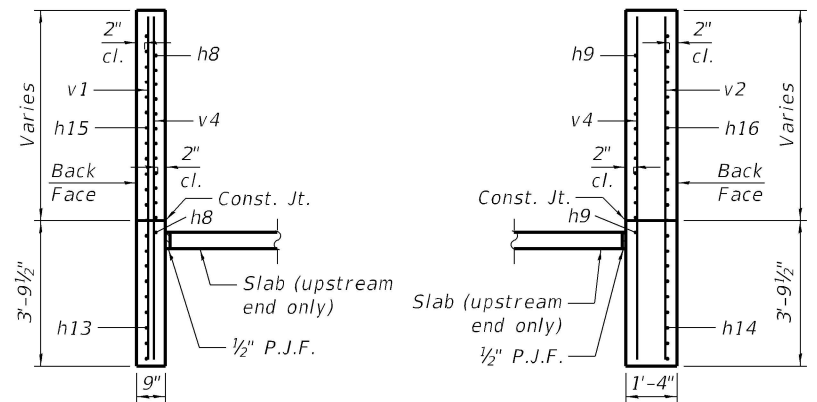
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LONGITUDINAL SECTION

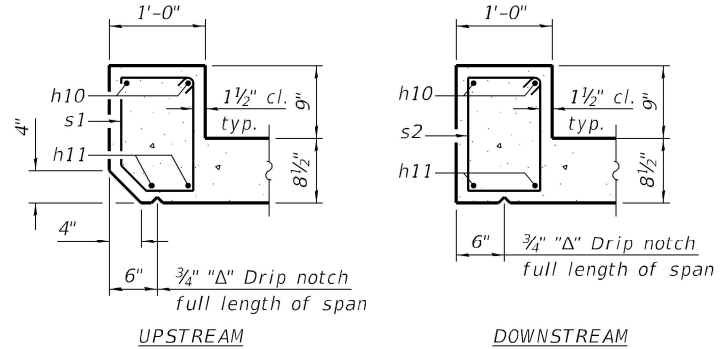


SECTION THRU BARREL

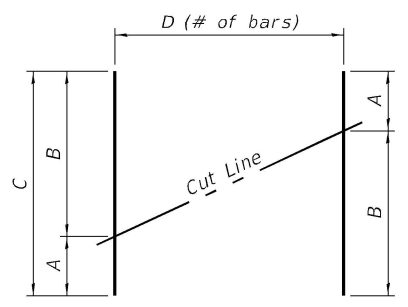


SECTION A-A

SECTION B-B

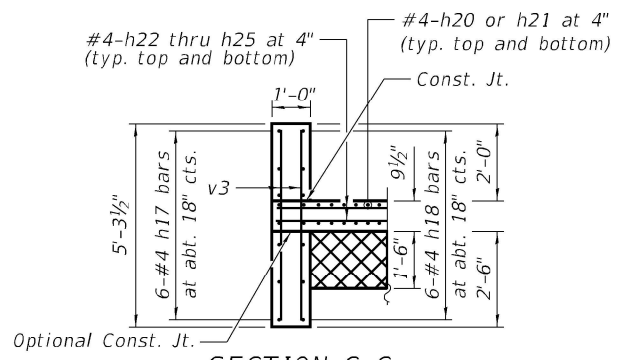


SECTION THRU HEADWALL



FIELD CUTTING DIAGRAM

Bar	A	B	C	D
h20	8'-3"	22'-10"	31'-1"	16
h22	0'-8"	5'-5"	6'-1"	31
h25	1'-0 1/4"	5'-2 3/4"	6'-3"	11
v1	6'-9"	9'-7"	16'-4"	9
v2	6'-8 3/4"	9'-5 1/4"	16'-2"	15



SECTION C-C

Limits of Removal and Disposal of Unsuitable Material for Structures & Rock Fill - Foundation

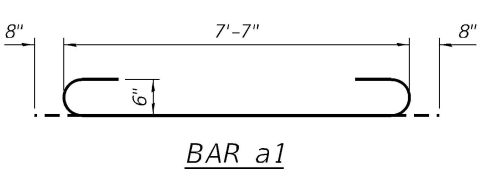
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	112	#6	8'-11"	
a2	105	#5	7'-7"	
a3	48	#6	8'-9"	
d	14	#4	4'-5"	
h	16	#5	27'-4"	
h1	16	#5	21'-10"	
h2	16	#5	27'-4"	
h3	16	#5	21'-10"	
h4	6	#4	23'-11"	
h5	6	#4	27'-4"	
h6	6	#4	21'-10"	
h7	6	#4	18'-5"	
h8	26	#5	8'-0"	
h9	26	#5	8'-0"	
h10	4	#6	7'-3"	
h11	4	#7	7'-3"	
h12	56	#4	1'-0"	
h13	12	#5	11'-0"	
h14	12	#5	16'-0"	
h15	32	#5	10'-10"	
h16	32	#5	17'-10"	
h17	6	#4	23'-3"	
h18	6	#4	21'-5"	
h19	16	#4	2'-0"	
h20	16	#4	31'-1"	
h21	2	#4	6'-11"	
h22	31	#4	6'-1"	
h23	42	#4	5'-7"	
h24	2	#4	5'-2"	
h25	11	#4	6'-3"	
s	6	#4	31'-3"	
s1	9	#4	4'-2"	
s2	9	#4	4'-4"	
v	156	#5	6'-2"	
v1	9	#4	16'-4"	
v2	15	#4	16'-2"	
v3	33	#4	4'-11"	
v4	4	#4	9'-6"	
Concrete Box Culverts	Cu. Yd.		55.8	
Reinforcement Bars	Pound		9,340	

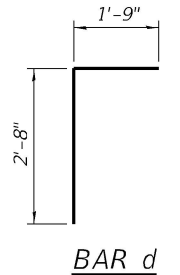
Notes:  
 \* 6-#4 (h4 at U.S. North Wall; h5 at U.S. South Wall; h6 at D.S. North Wall; h7 at D.S. South Wall) bars at 12" cts.  
 \*\* 23'-8 1/2" (Northwest Wall), 26'-11 1/2" (Southwest Wall), 21'-5 1/2" (Northeast Wall), & 18'-2 1/2" (Southeast Wall); Measured along inside face of sidewall.  
 \*\*\* 22'-6 3/4" (Northwest Wall), 25'-9 7/8" (Southwest Wall), 20'-3 7/8" (Northeast Wall), & 17'-0 3/4" (Southeast Wall); Measured along inside face of sidewall.  
 \*\*\*\* (40 U.S. North Wall, 45 U.S. South Wall, 36 D.S. North Wall & 31 D.S. South Wall)- #5 v bars at 7 1/2" cts.  
 U.S. denotes upstream.  
 D.S. denotes downstream.  
 E.F. denotes each face.  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bar	Length	Bar	Length
h8	2'-8 1/8"	h13	1'-9 7/8"
h9	1'-9 3/8"	h14	1'-2 7/8"
h13	2'-4 1/2"	h15	2'-8 1/8"
h14	1'-2 7/8"	h16	1'-9 3/8"
h15	2'-8 1/8"		
h16	1'-9 3/8"		
h8	1'-2 5/8"	h8	5'-0"
h9	2'-4 3/4"	h9	5'-0"
h13	1'-9 7/8"	h13	8'-0"
h14	2'-8 3/4"	h14	13'-0 3/8"
h15	1'-2 5/8"	h15	7'-10"
h16	2'-4 3/4"	h16	14'-10 3/8"

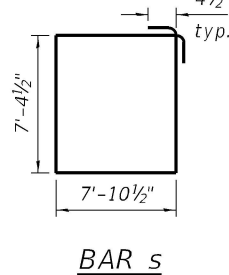
BARS h7, h8, h13, h14, h15, & h16



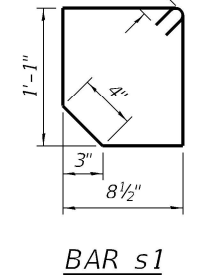
BAR a1



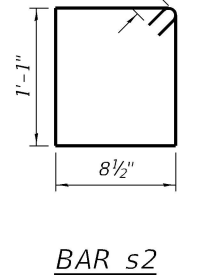
BAR d



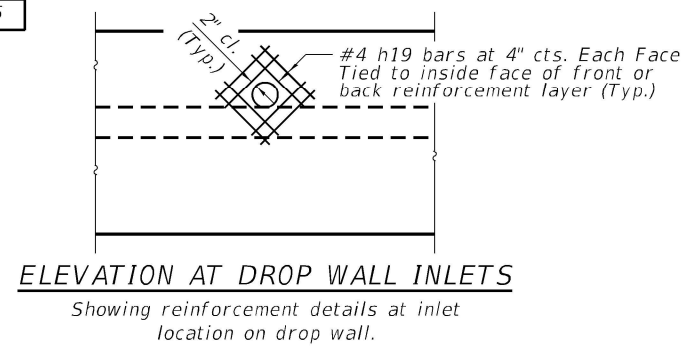
BAR s



BAR s1



BAR s2



ELEVATION AT DROP WALL INLETS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CULVERT REHABILITATION DETAILS - 2  
 STRUCTURE NO. 065-7010

SHEET 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	54
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED - MMC	REVISED -
PLOT SCALE =	CHECKED - MLC	REVISED -
PLOT DATE =	DRAWN - MMC	REVISED -
	CHECKED - MLC	REVISED -



Bench Mark: BM 97-14, chiseled "□" at the west end of the northwest approach wall to the bridge over the Sangamon River at Athens Blacktop, 0.57 miles north of Pritchettville Road. Station ±395+06.4, Offset ±157.2' RT, Elevation 518.553.

Existing Structure: The structure is a 5' x 5' reinforced concrete box culvert. Roadway will remain open during culvert extension work. See Roadway Plans for traffic control.

Salvage: None.

**DESIGN STRESSES**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**DESIGN SPECIFICATIONS**

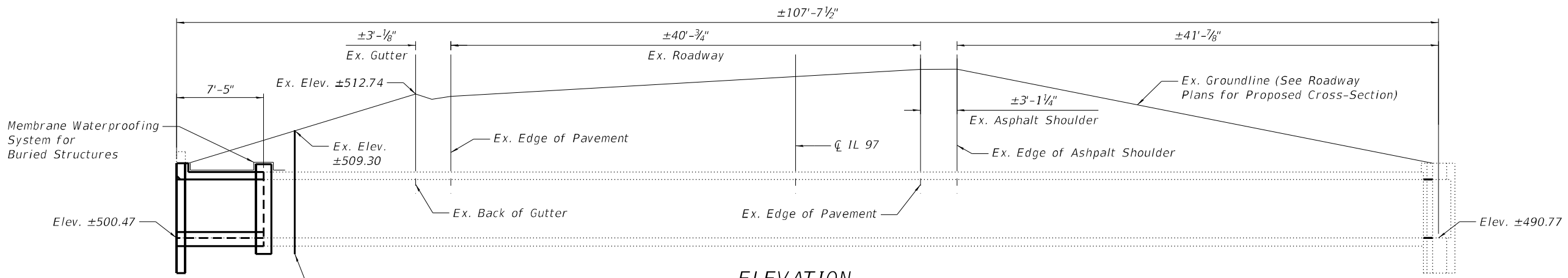
2020 AASHTO LRFD Bridge  
 Design Specifications, 9th Edition

**LOADING HL-93**

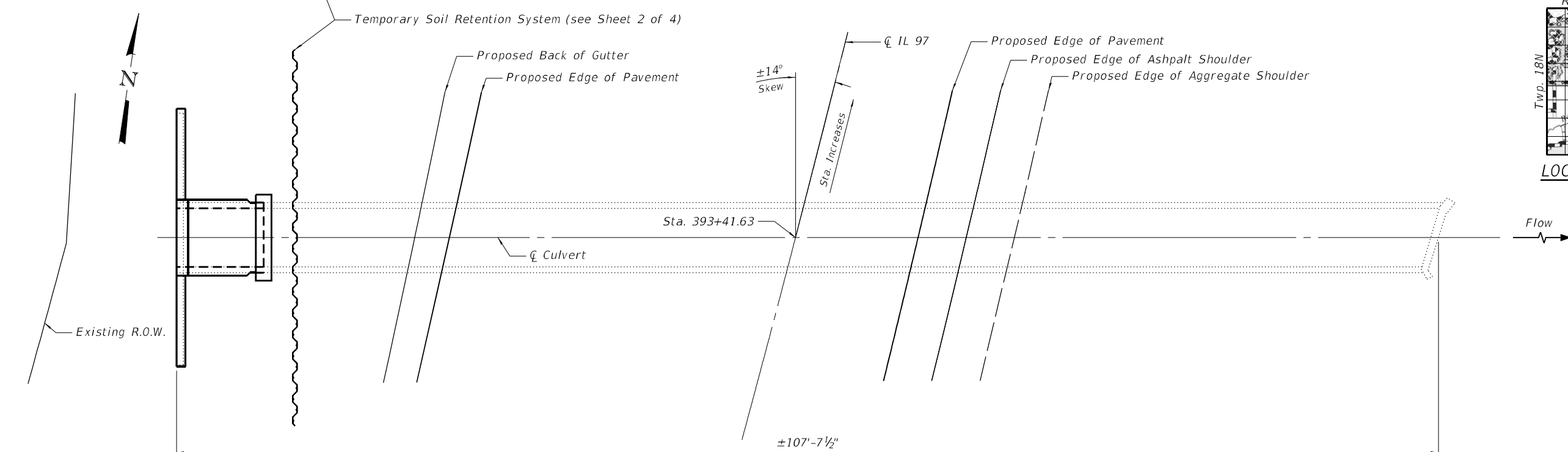
Design Fill Height = 8'

**INDEX OF SHEETS**

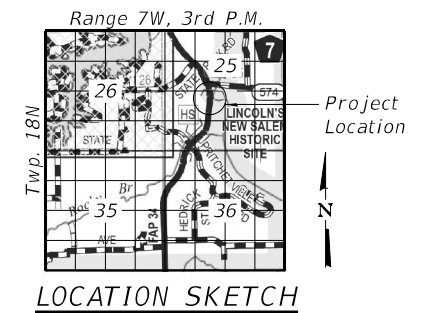
- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Culvert Removal Details
- 4 - Culvert Rehabilitation Details



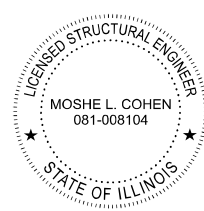
**ELEVATION**



**PLAN**



**LOCATION SKETCH**



Signed: *Moshe L. Cohen*  
 Dated: 2023-09-27  
 Illinois Structural Engineer  
 No. 081-008104  
 License Expires: 11-30-2024

**GENERAL PLAN AND ELEVATION**  
**IL RTE. 97 OVER UNNAMED DITCH**  
**F.A.P. RTE. 34 SEC. (101) RS-13**  
**MENARD COUNTY**  
**STATION 393+41.63**

MODEL: Default  
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USER NAME =	DESIGNED - MMC	REVISIONS -
CHECKED - MLC	CHECKED - MLC	REVISIONS -
DRAWN - MMC	DRAWN - MMC	REVISIONS -
CHECKED - MLC	CHECKED - MLC	REVISIONS -

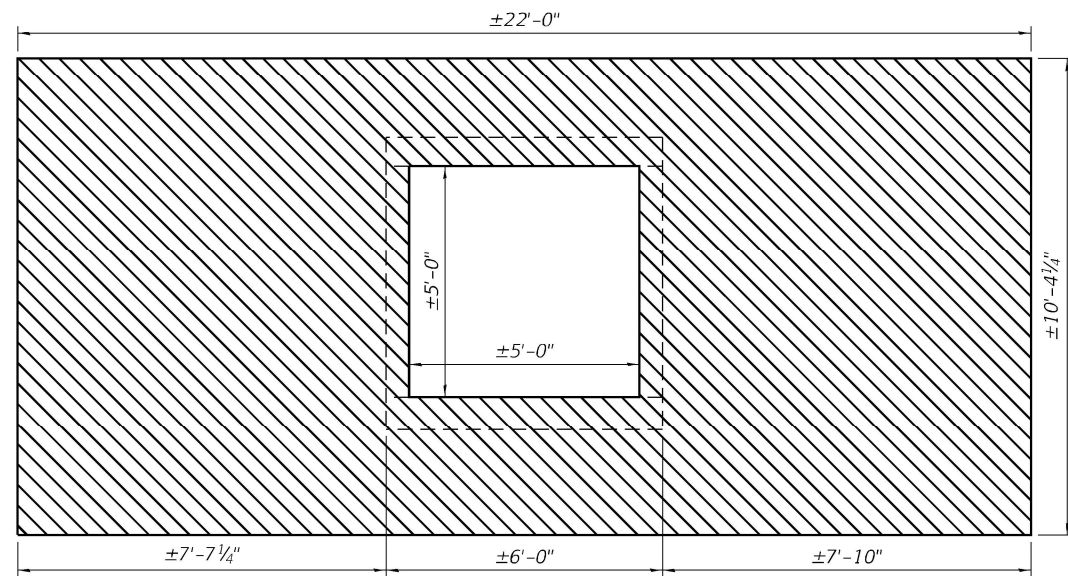
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET 1 OF 4 SHEETS

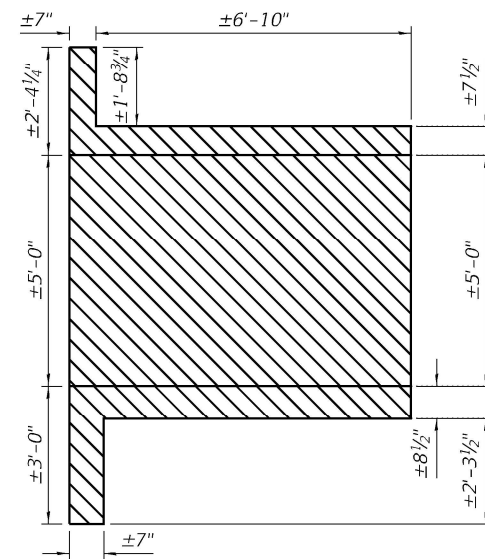
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34	(101) RS-13	MENARD	121	56
CONTRACT NO. 72M79				



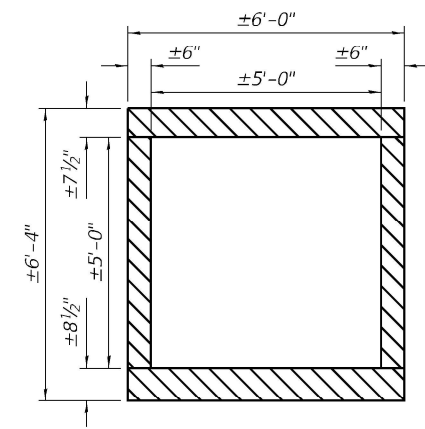




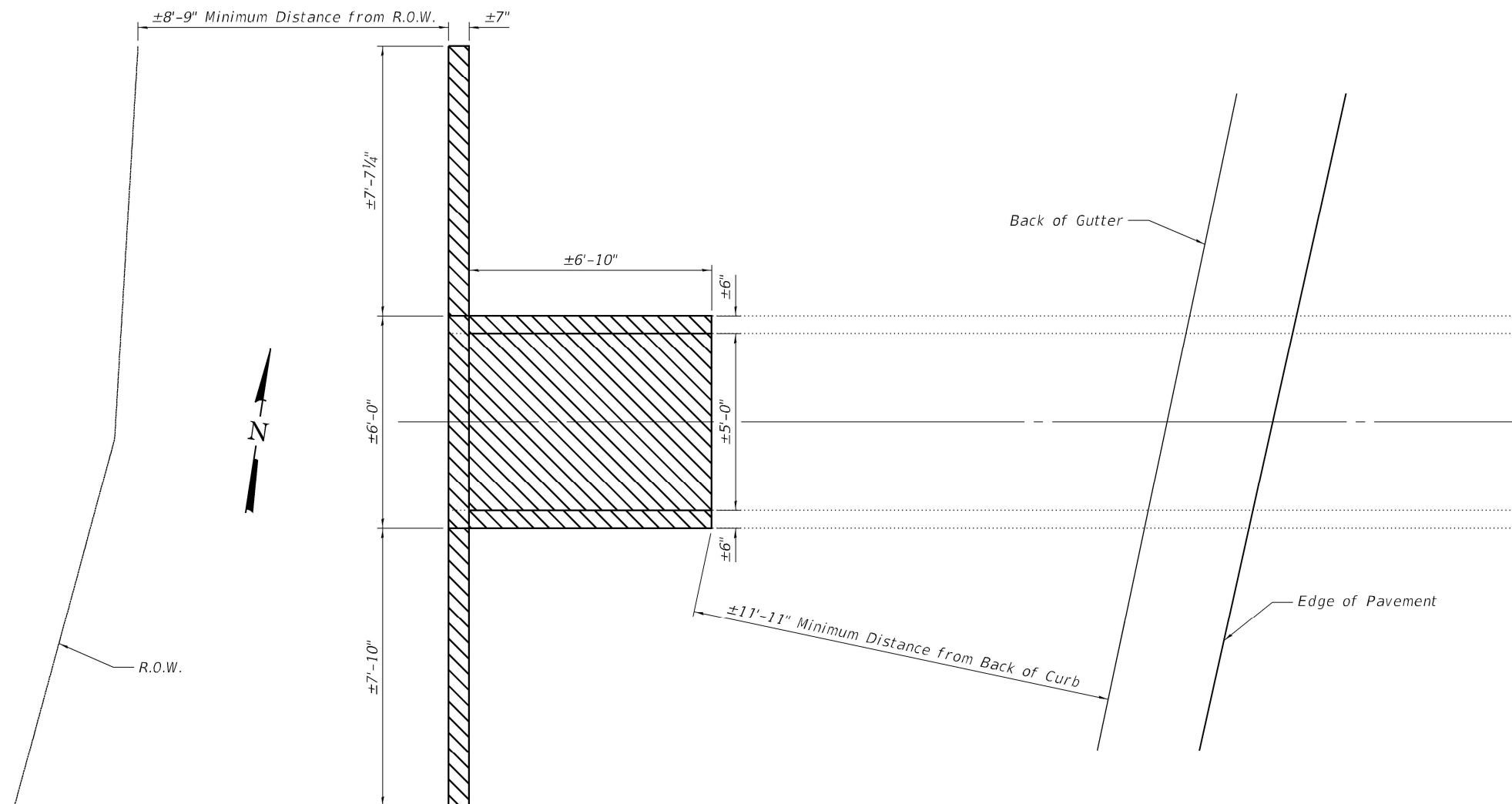
**END VIEW**



**LONGITUDINAL SECTION**



**SECTION THRU BARREL**



**PLAN**

- Concrete Removal

**BILL OF MATERIAL**

Item	Unit	Total
Concrete Removal	Cu. Yd.	7.7

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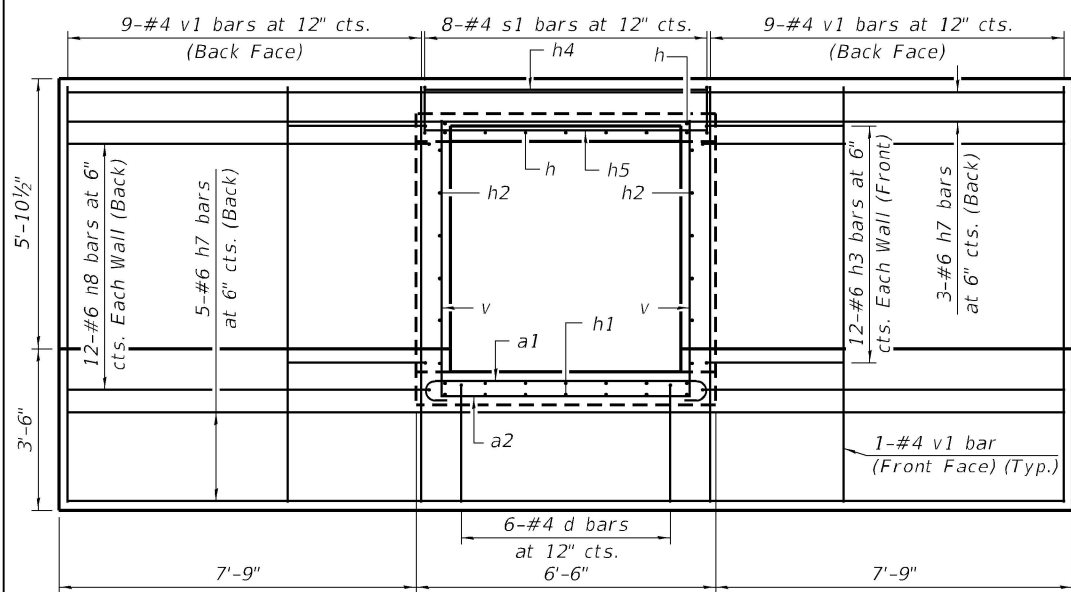
**Kaskaskia**  
 Engineering Group LLC  
 200 E. Main St., Suite 200  
 Moline, IL 61401  
 309.443.2877  
 309.443.2877  
 www.kaskaskiaeng.com

USER NAME =	DESIGNED - MMC	REVISED -
	CHECKED - MLC	REVISED -
PLOT SCALE =	DRAWN - MMC	REVISED -
PLOT DATE =	CHECKED - MLC	REVISED -

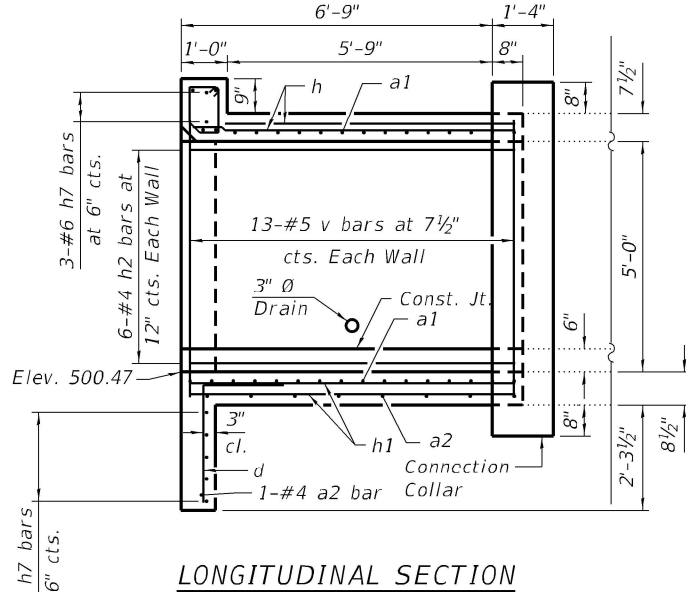
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT REMOVAL DETAILS**  
**STA. 393+41.63 (IL 97) RC BOX CULVERT**

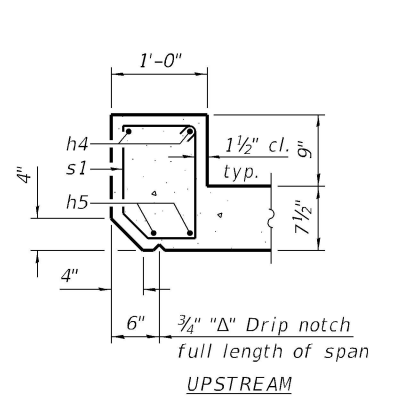
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	(101) RS-13	MENARD	121	58
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				



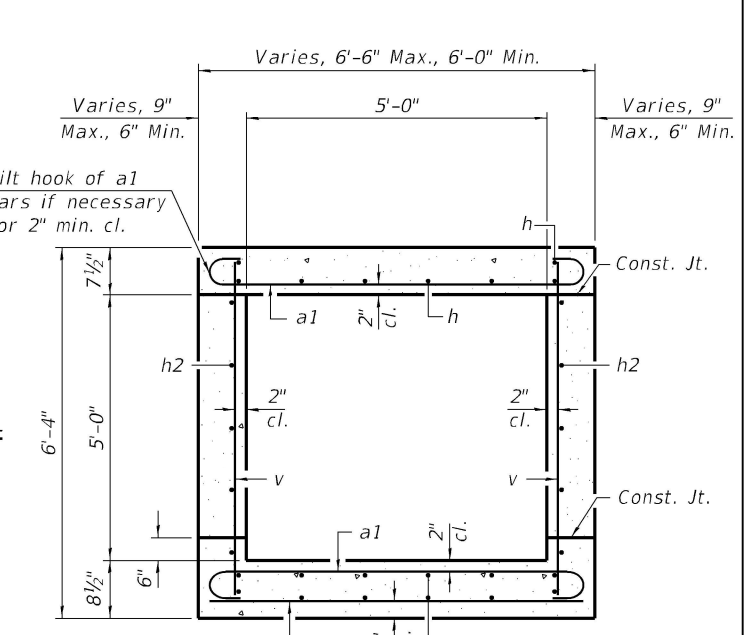
END VIEW



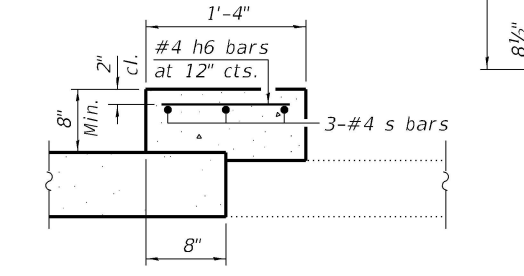
LONGITUDINAL SECTION



SECTION THRU HEADWALL



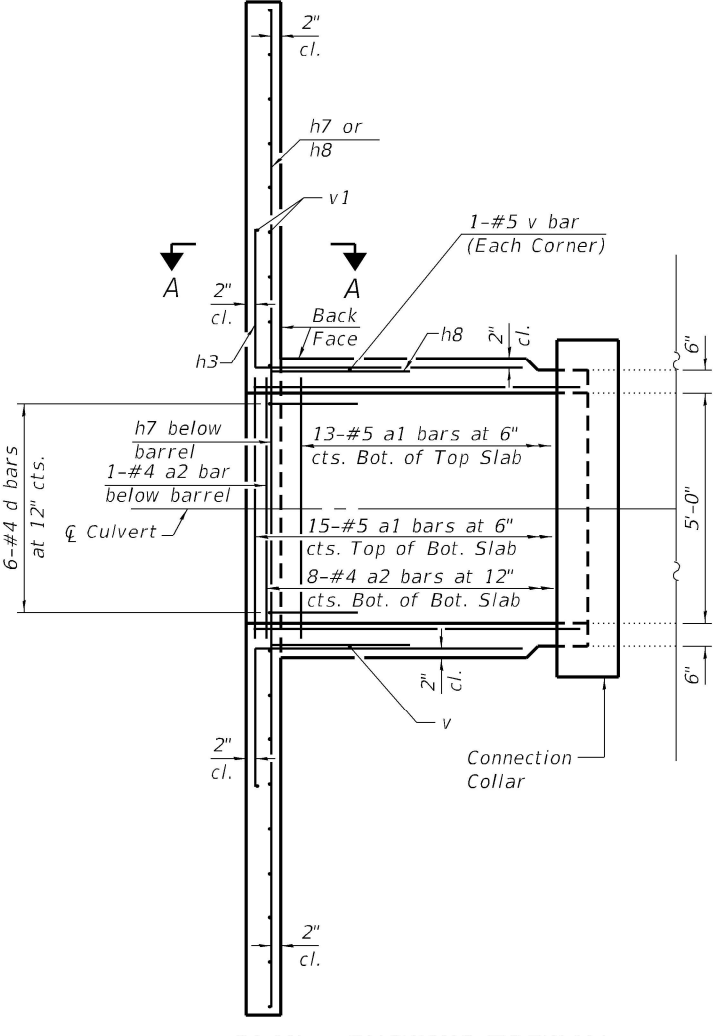
SECTION THRU BARREL



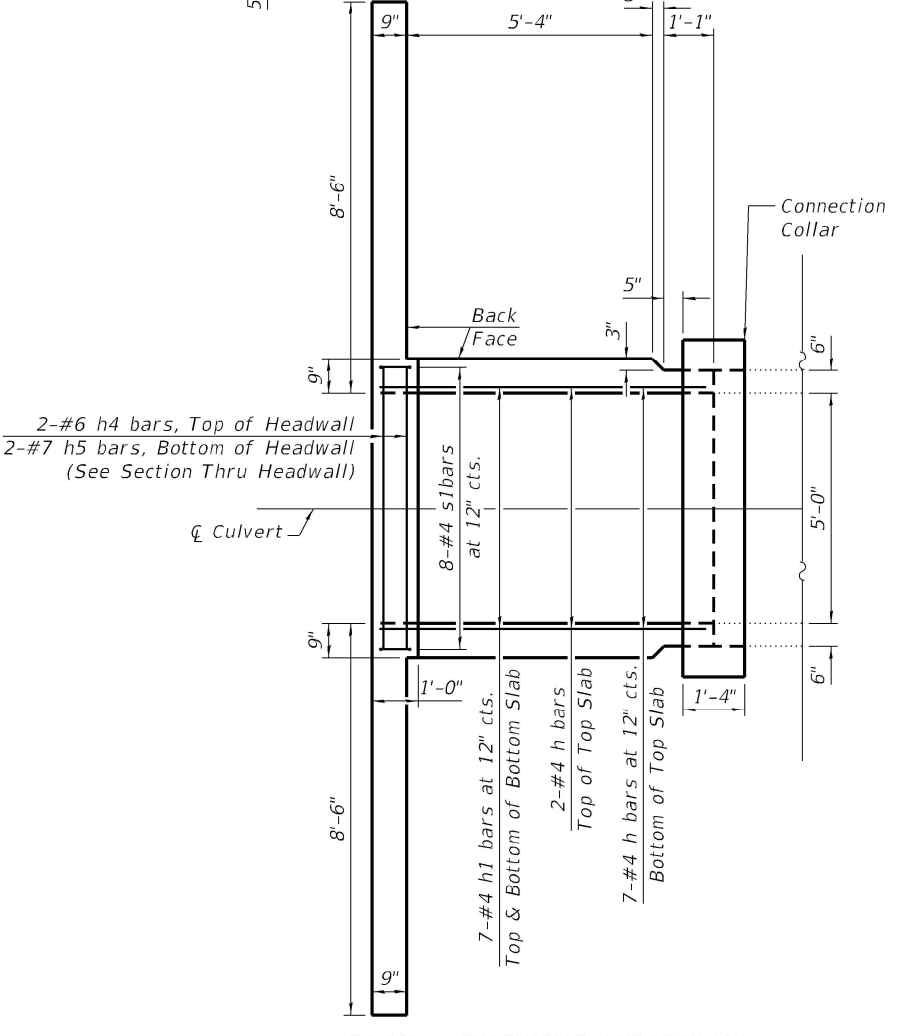
SECTION THRU CONNECTION COLLAR

BILL OF MATERIAL

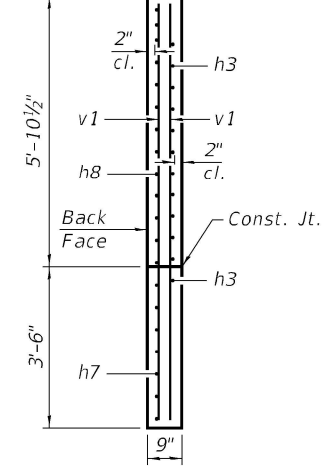
Bar	No.	Size	Length	Shape
a1	28	#5	6'-10"	
a2	9	#4	5'-8"	
d	6	#4	4'-5"	
h	9	#4	7'-1"	
h1	14	#4	7'-1"	
h2	12	#4	7'-1"	
h3	24	#6	8'-0"	
h4	2	#6	6'-2"	
h5	2	#7	6'-2"	
h6	26	#4	1'-0"	
h7	8	#6	21'-8"	
h8	24	#6	10'-10"	
s	3	#4	28'-11"	
s1	8	#4	4'-2"	
v	28	#5	6'-0"	
v1	20	#4	9'-0"	
Concrete Box Culverts	Cu. Yd.		10.0	
Reinforcement Bars	Pound		1,800	



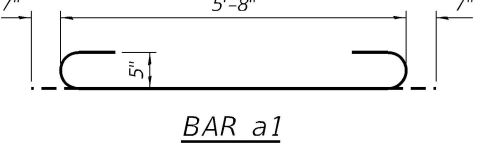
PLAN - SHOWING TOEWALL



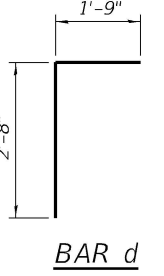
PLAN - SHOWING HEADWALL



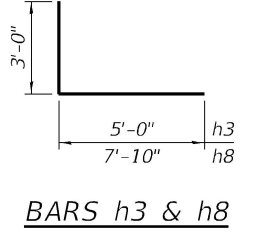
SECTION A-A



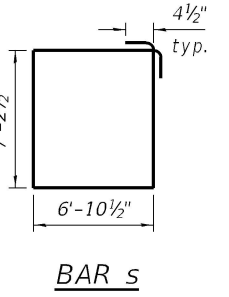
BAR a1



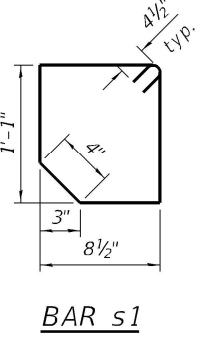
BAR d



BARS h3 & h8



BAR s



BAR s1

MODEL: Default  
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**Kaskaskia**  
 Engineering Group LLC  
 1821 N. Main St., Suite 100  
 Macomb, Illinois 61455  
 618.553.8877  
 618.553.9977 Fax  
 www.kaskaskiaeng.com

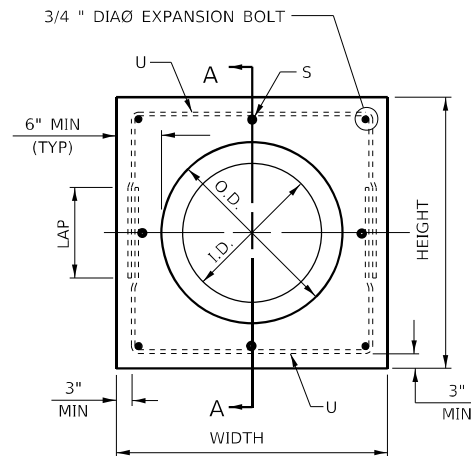
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

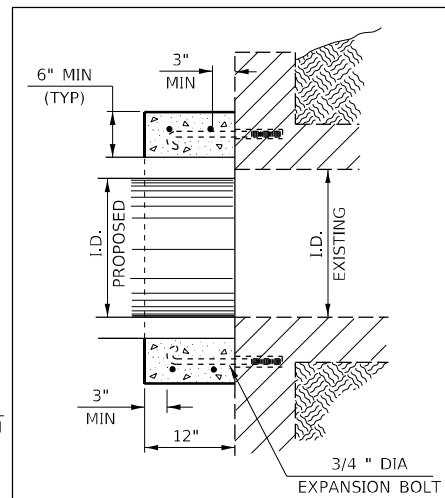
CULVERT REHABILITATION DETAILS  
 STA. 393+41.63 (IL 97) RC BOX CULVERT

SHEET 4 OF 4 SHEETS

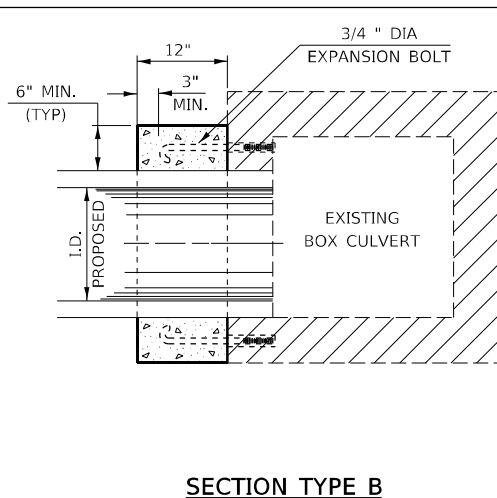
F.A.P. RTE. 34	SECTION (101) RS-13	COUNTY MENARD	TOTAL SHEETS 121	SHEET NO. 59
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				



**PIPE CULVERT EXTENSION COLLAR**

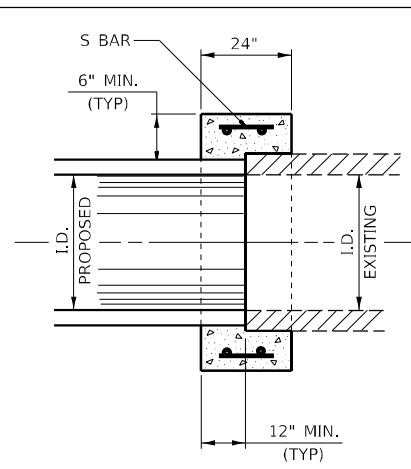


**SECTION TYPE A  
(BOX END EXTENSION)**

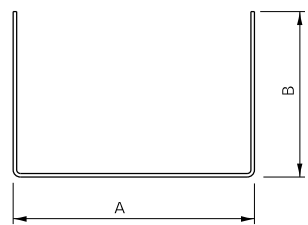
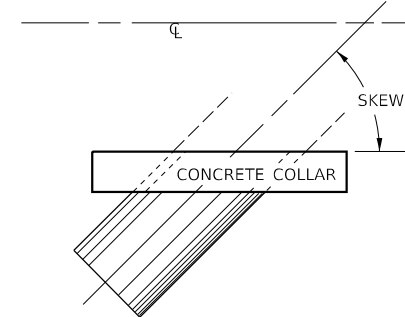


**SECTION TYPE B  
(PIPE IN SIDE EXTENSION)**

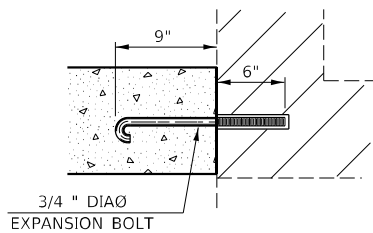
**SECTION A - A**



**SECTION TYPE C  
(PIPE END TO PIPE END EXTENSION  
NO EXPANSION BOLTS REQUIRED)**



**#4 U - BAR**

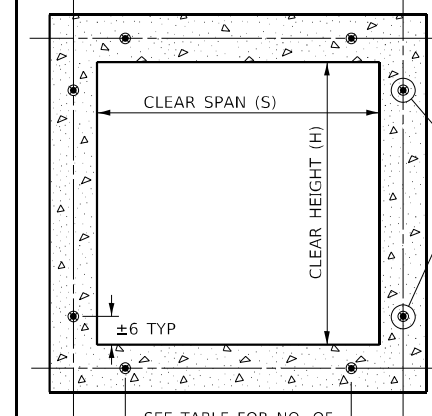


**EXPANSION BOLT DETAIL**

**NOTES:**

1. EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD - 4,080 LBS.
2. USE MINIMUM OF 1 (ONE) EXPANSION BOLT AT EACH CORNER.

**BOX CULVERT POURED IN PLACE EXTENSION**



**SECTION THRU BARREL**

3/4" DIA EXPANSION BOLT

**EXPANSION BOLTS REQUIRED FOR CULVERT EXTENSIONS**

H OR S	NO. EXPANSION BOLTS REQ'D. PER SIDE			
	EXTENSION ≤ 15FT		EXTENSION > 15FT	
	NO.	SPACING	NO.	SPACING
24"	*	*	*	*
30"	2	18"	2	18"
36"	2	24"	2	24"
48"	3	18"	3	18"
60"	4	16"	3	24"
72"	5	15"	4	20"
84"	5	18"	4	24"
96"	6	17"	5	21"
108"	6	19"	5	24"
120"	7	18"	6	21"
132"	8	17"	6	24"
144"	8	19"	7	22"

NOTE: NUMBER OF EXPANSION BOLTS IN TABLE BASED ON NON-SKEWED CULVERTS.

\* USE MINIMUM 1 (ONE) EXPANSION BOLT IN EACH CORNER.

STR NO.	Station	Type	Skew	Existing Culvert Size	Proposed Culvert		Collar		Reinforcement Bars, Epoxy Coated										Expansion Bolts, 3/4" Each	Concrete Collar cu yd	
					I.D. (in)	O.D. (in)	Height (in)	Width (in)	S Bar					U Bar							
									No.	Size	Length (in)	No.	Size	A (in)	B (in)	Lap (in)	Length (in)	(lb)			
FAP 34 (IL 97)																			50800205	54002020	54248510
1	300+09.50 (RT)	A	32	2'X2'	24	30	42	42	-	-	-	4	#5	36	27	18	90	31.3	8	0.27	
2	308+55.45 (LT)	A	23	3'X3'	36	44	56	56	-	-	-	4	#5	50	34	18	118	41.1	8	0.42	
2	308+55.45 (RT)	A	23	3'X3'	36	44	56	56	-	-	-	4	#5	50	34	18	118	41.1	8	0.42	
																	TOTAL =	113.5	24	1.11	
																	USE =	120	24	1.20	

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600-COLLAR.DGN

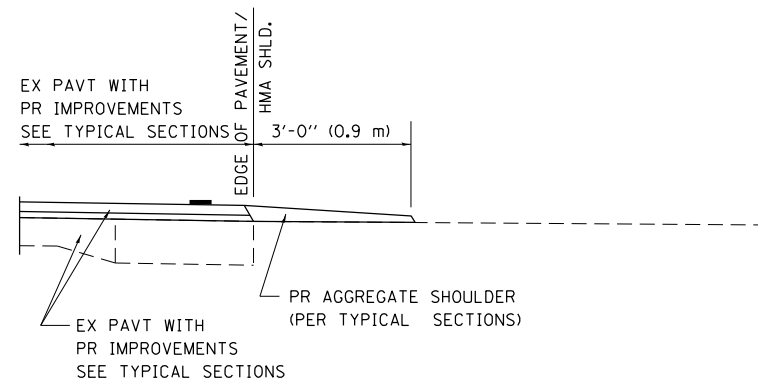
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PLOT DATE = 8/18/2023	CHECKED - RLD	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

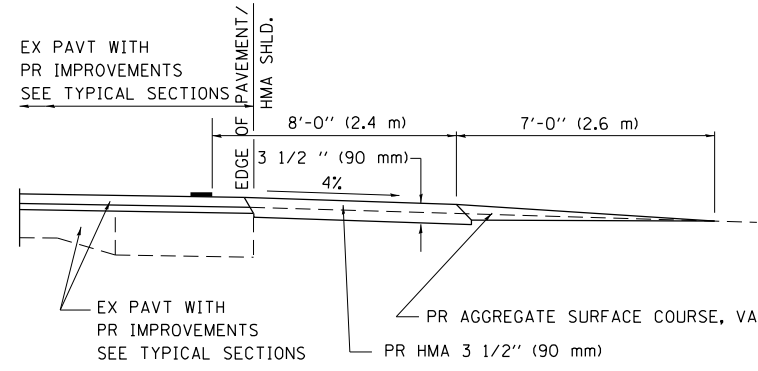
**CONCRETE COLLAR AND  
CULVERT EXTENSION DETAIL**

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

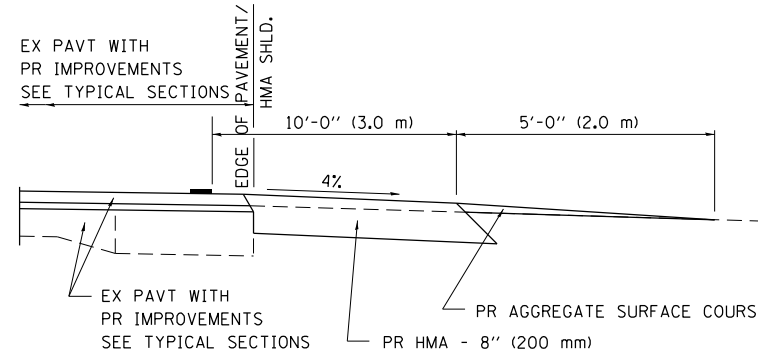
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M79	



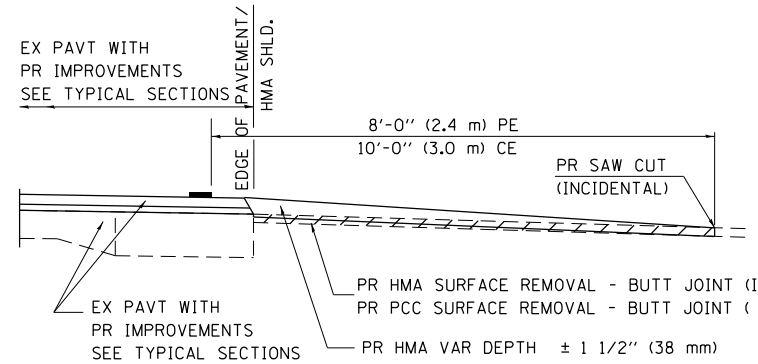
**SECTION A-A FOR EX EARTH/ AGGREGATE FE**



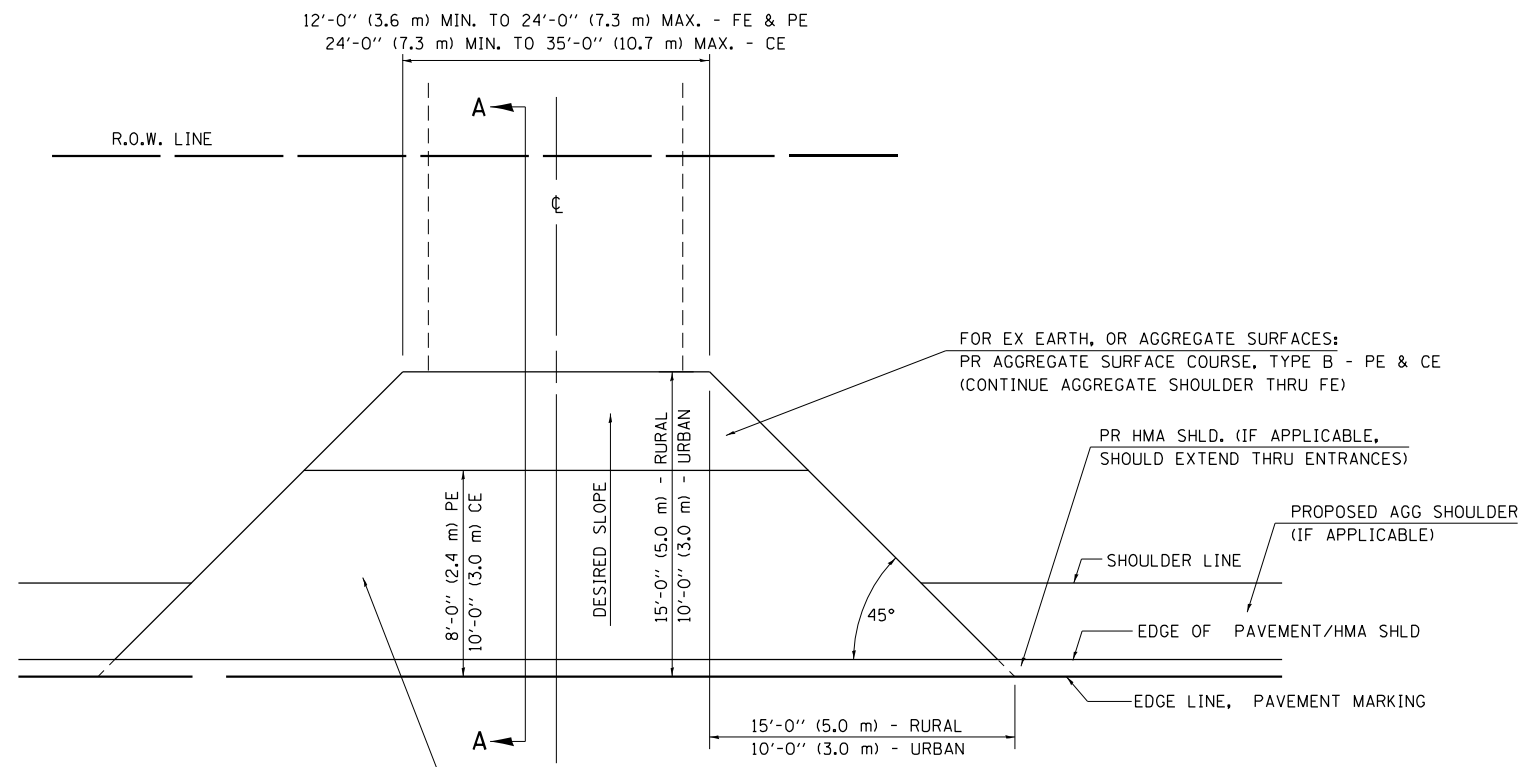
**SECTION A-A FOR EX EARTH/AGGREGATE PE**



**SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD**



**SECTION A-A FOR EX HMA/ PC CONCRETE PE, CE & SIDE ROAD**



FOR EX EARTH OR AGGREGATE SURFACES:  
 PR HMA SURFACE REMOVAL (IF APPLICABLE)  
 PR AGGREGATE SHOULDER THRU - FE  
 PR HMA CONCRETE 3 1/2" (90 mm) - PE  
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX HMA CONCRETE SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:  
 PR PCC SURFACE REMOVAL-BUTT JOINT

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

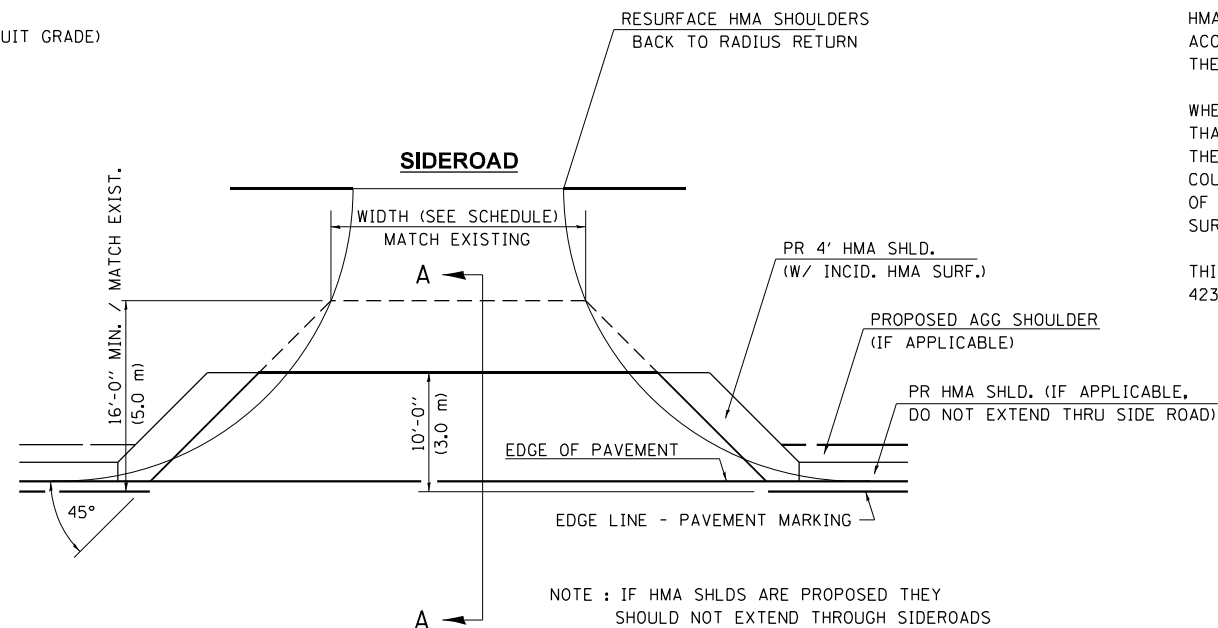
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

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



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

FILE NAME =	USER NAME = Jonathon Cox	DESIGNED -	REVISED - 2/19/03 JCN
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ENT PPP.DGN		DATE - FEBRUARY 23, 1999	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIST.6 DETAILS FOR RURAL/URBAN ENT., MAILBOX  
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

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

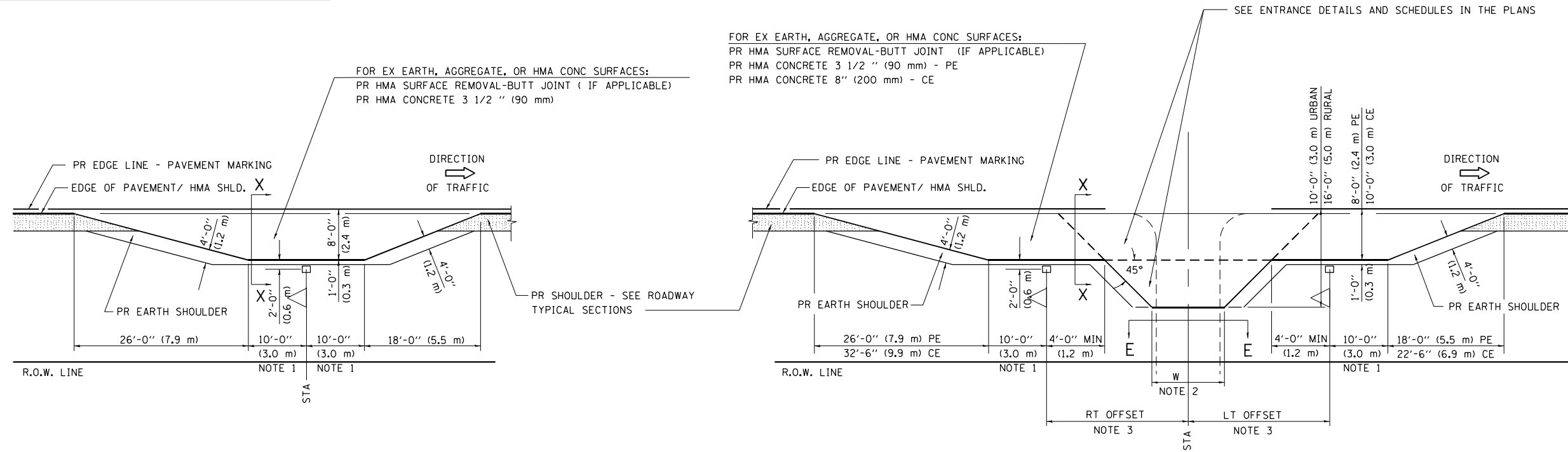
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	61
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

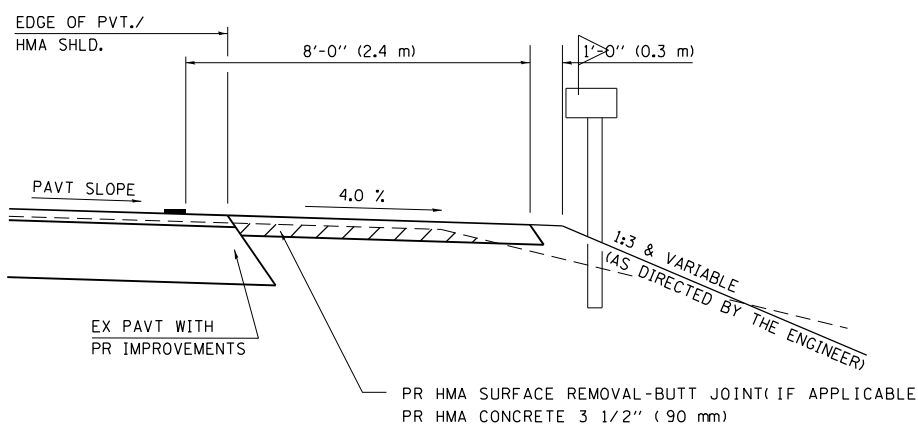
NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

## DETAILS OF MAILBOX TURNOUTS



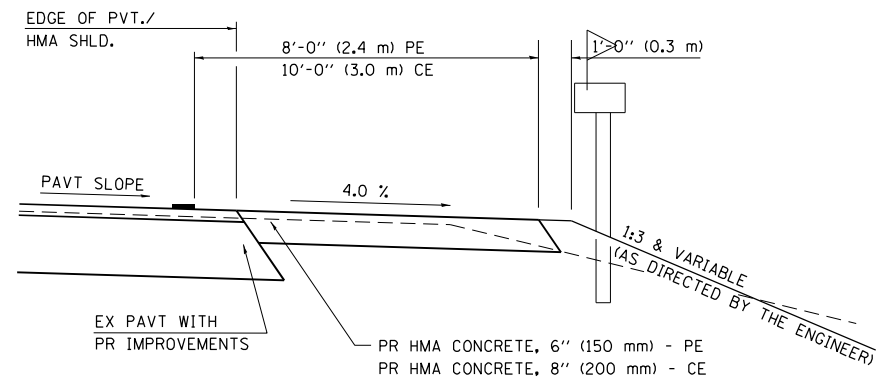
**PLAN - MAILBOX TURNOUTS**

**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**



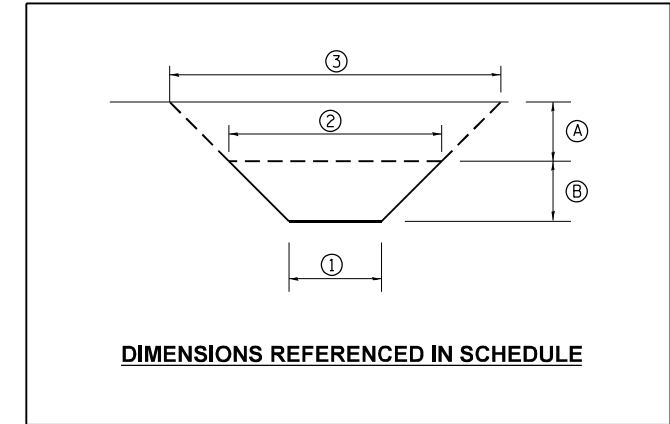
**SECTION X-X THRU MAILBOX TURNOUT  
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH  
EX EARTH, AGGREGATE, OR HMA PE & FE**

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.  
IF EXISTING, TREAT SAME AS ENTRANCE. )



**SECTION X-X THRU MAILBOX TURNOUT  
COMBINED WITH EX HMA CONC & PC CONC PE & CE**

( DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.  
IF EXISTING, TREAT SAME AS ENTRANCE. )



**DIMENSIONS REFERENCED IN SCHEDULE**

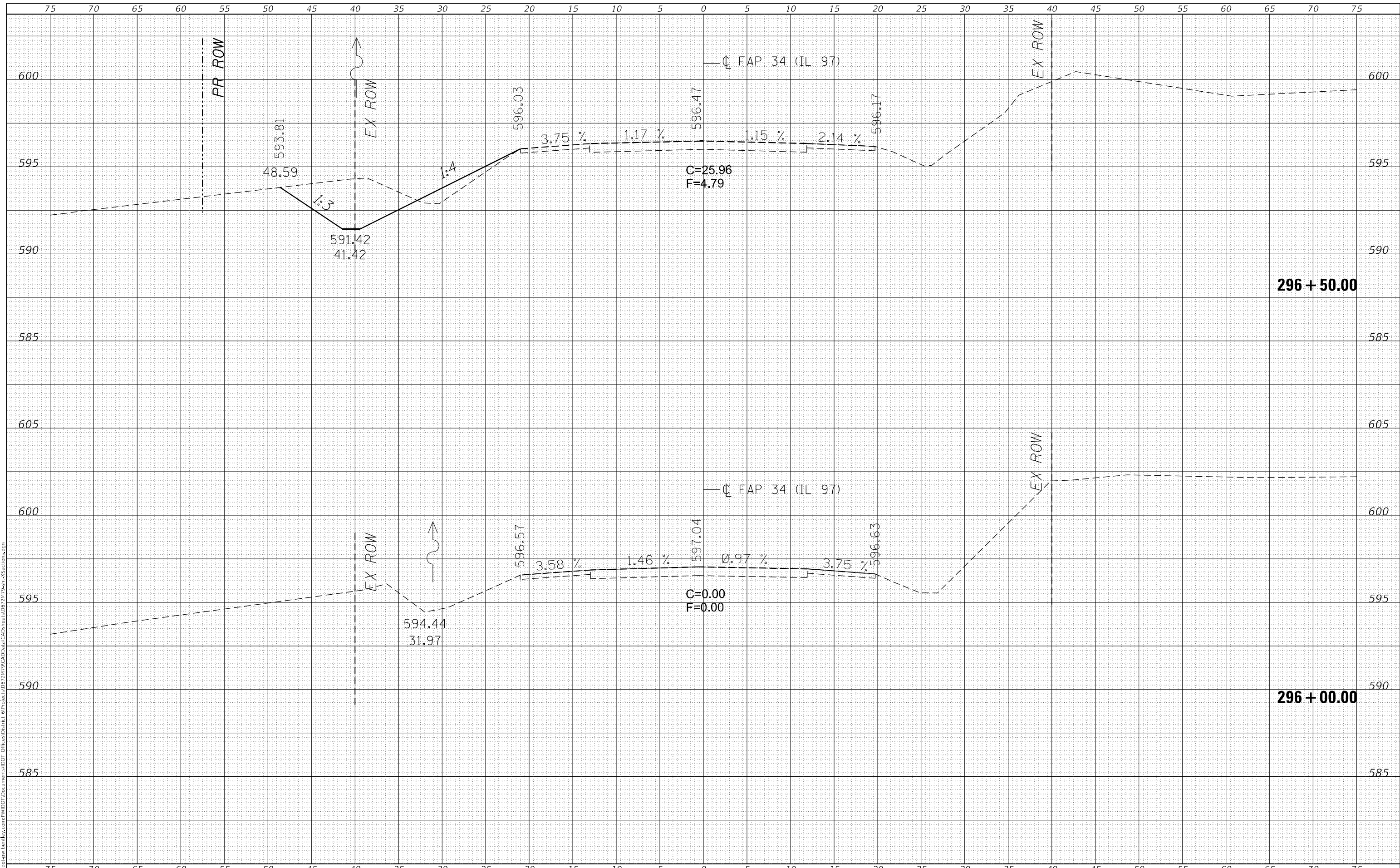
ALL DIMENSIONS ARE IN INCHES ( MILLIMETERS )  
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FILE NAME =	USER NAME = Jonathon Cox	DESIGNED -	REVISED - 2/19/03 JCN	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT &amp; SIDEROADS W/O CONC. GUTTER (3P-PROJ.)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 8/18/2023	DATE - FEBRUARY 23, 1999	REVISED -			SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	

FINAL SURVEY NO.	SURVEYED	DATE
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

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PLOT DATE = 8/18/2023	DATE -	REVISED -

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 72M79	
			ILLINOIS FED. AID PROJECT	

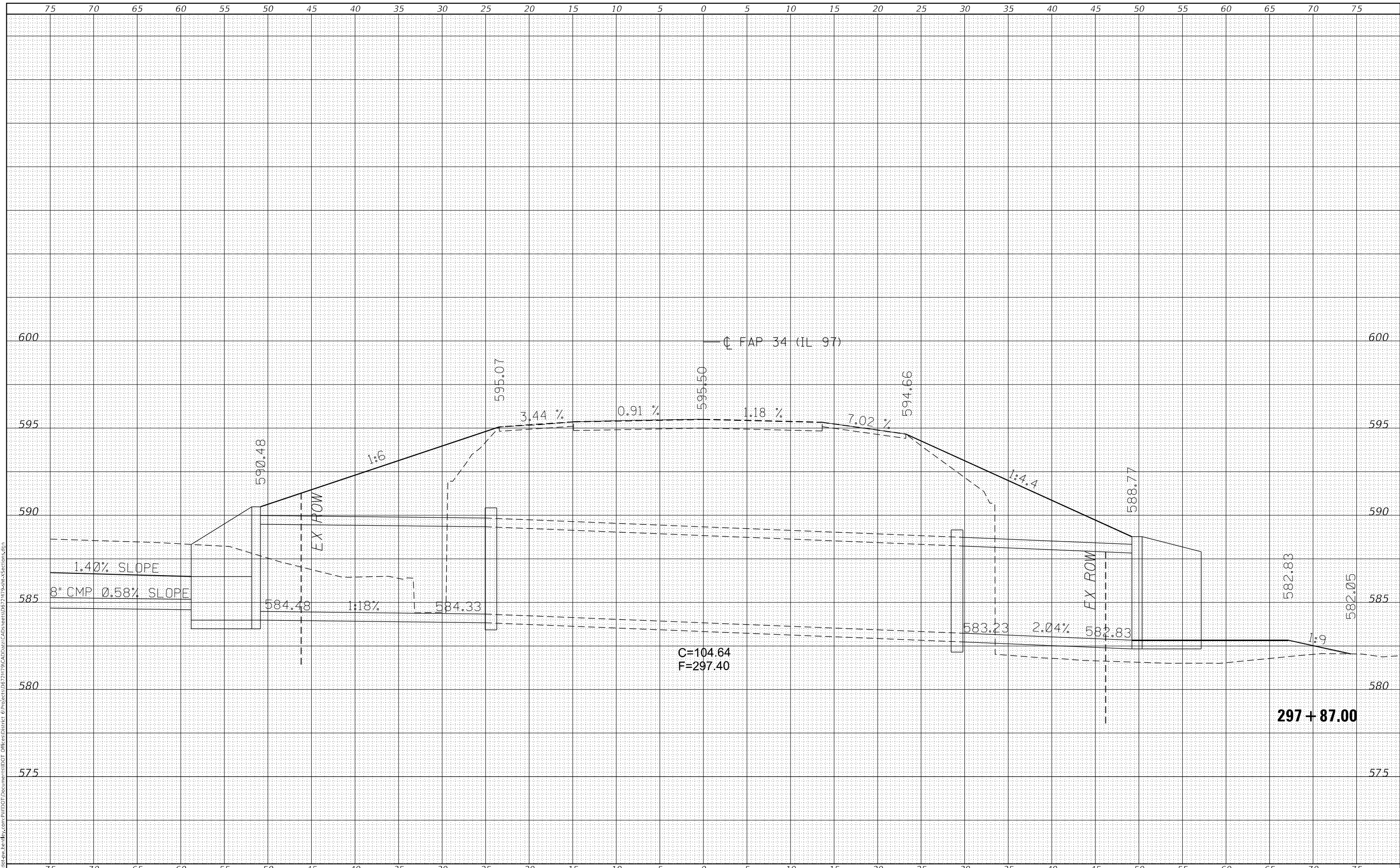




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USER NAME = jonathan.Cox	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS  
BOX CULVERT #1**

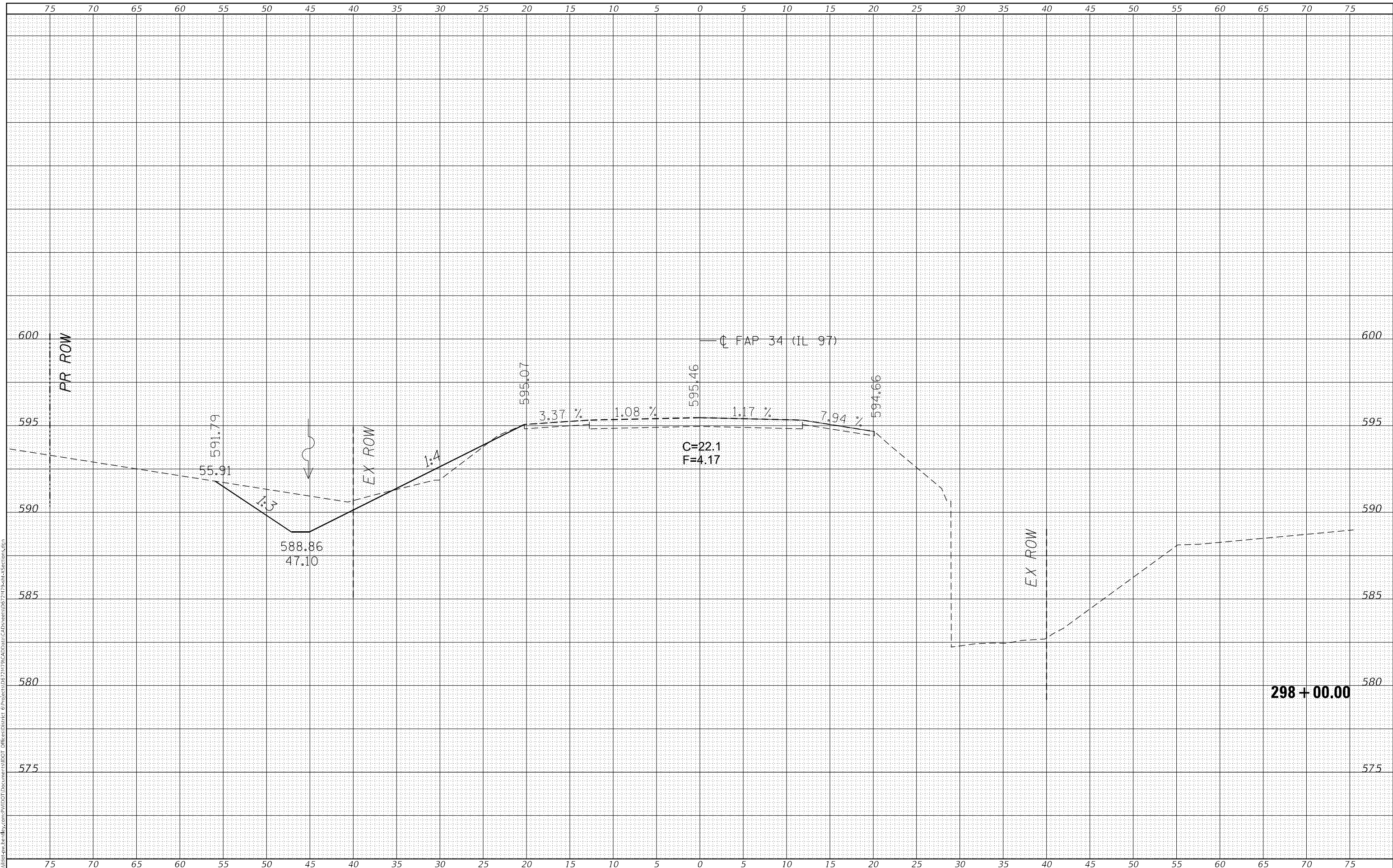
SCALE: SHEET 3 OF 59 SHEETS STA. 297+87.00 TO STA. 297+87.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	65
			CONTRACT NO. 72M79	
ILLINOIS			FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 97 CROSS SECTIONS</b>	
SCALE:	SHEET 4 OF 59 SHEETS STA. 298+00.00 TO STA. 298+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	66
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	

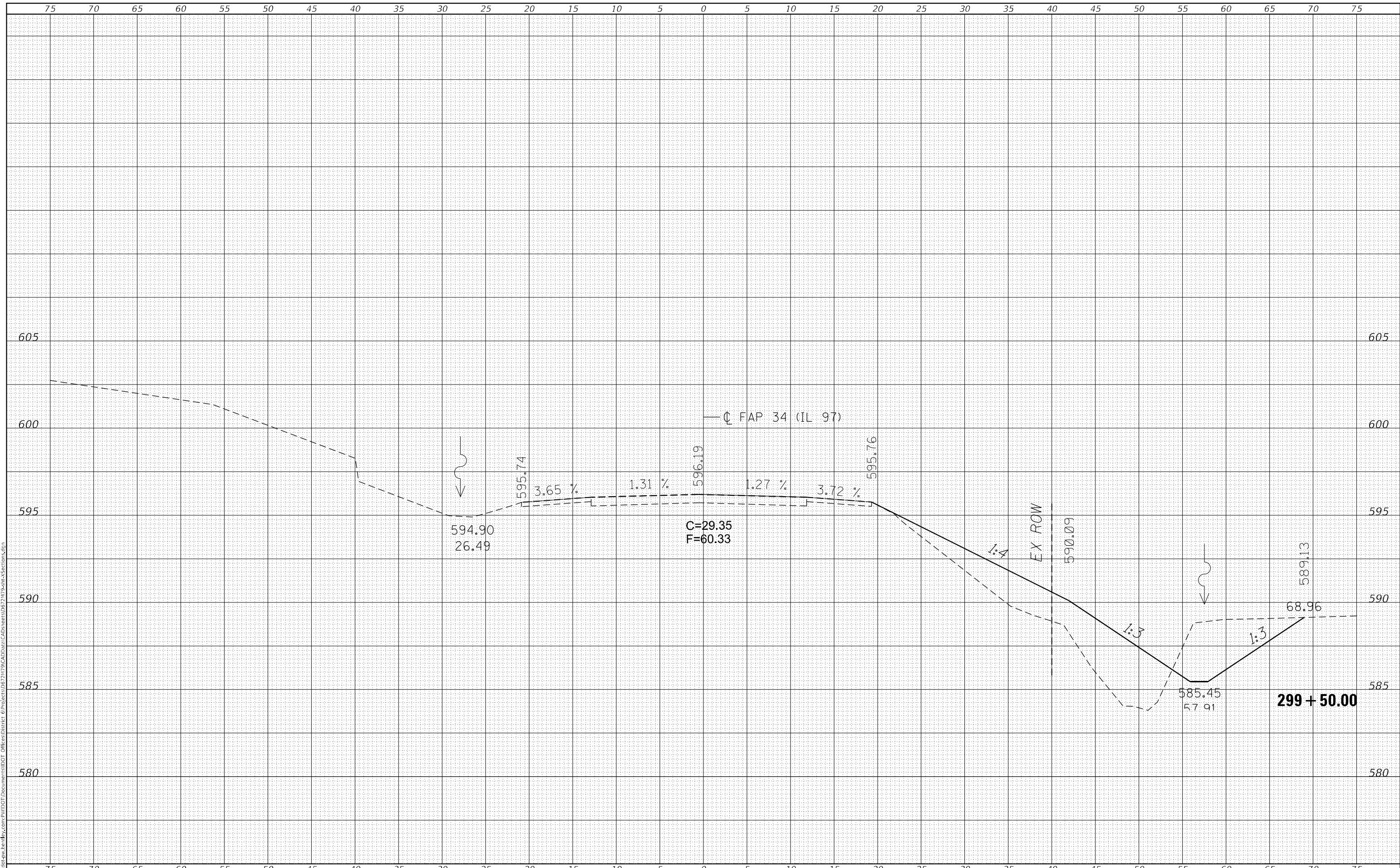




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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

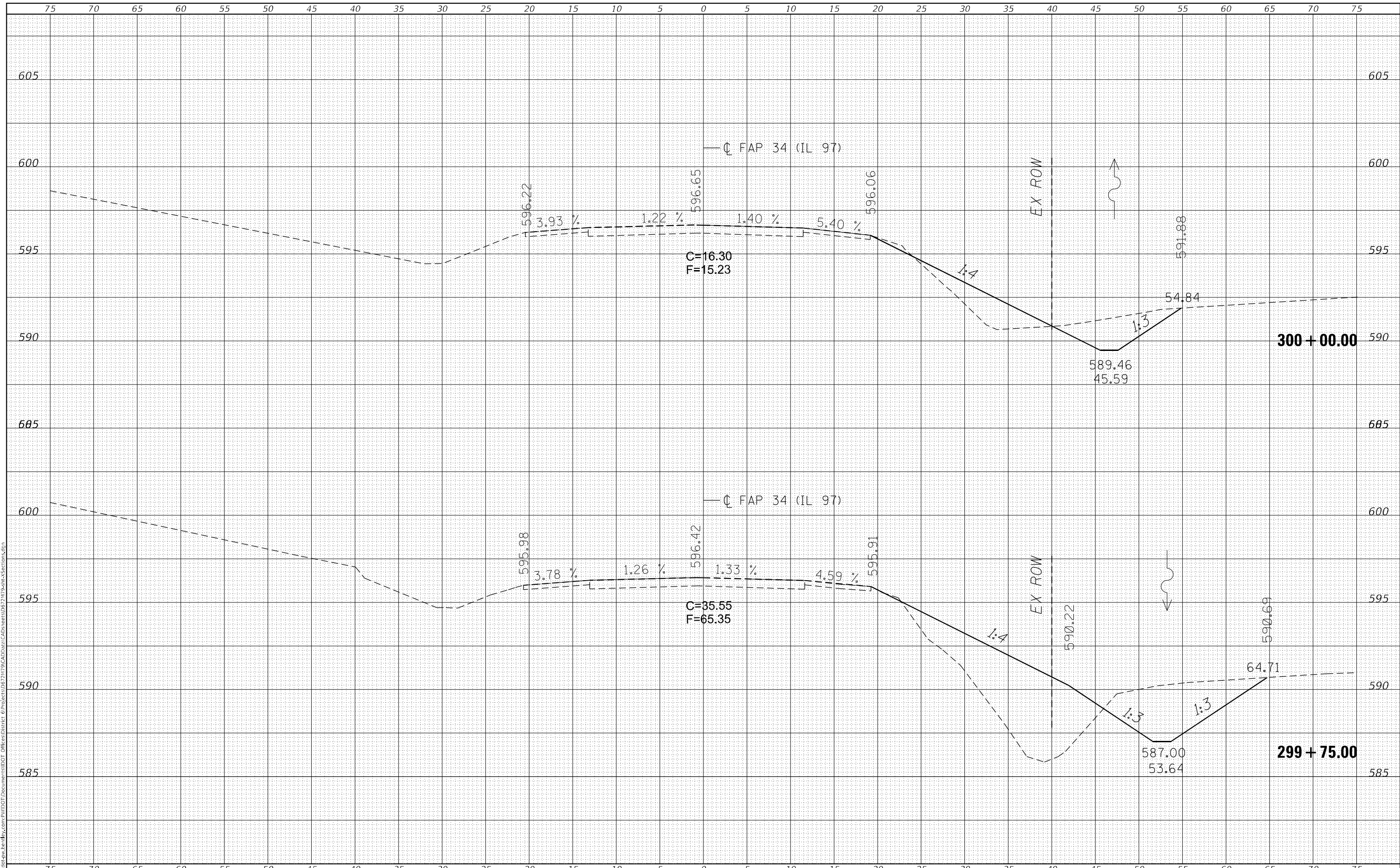
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	69
			CONTRACT NO. 72M79	
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

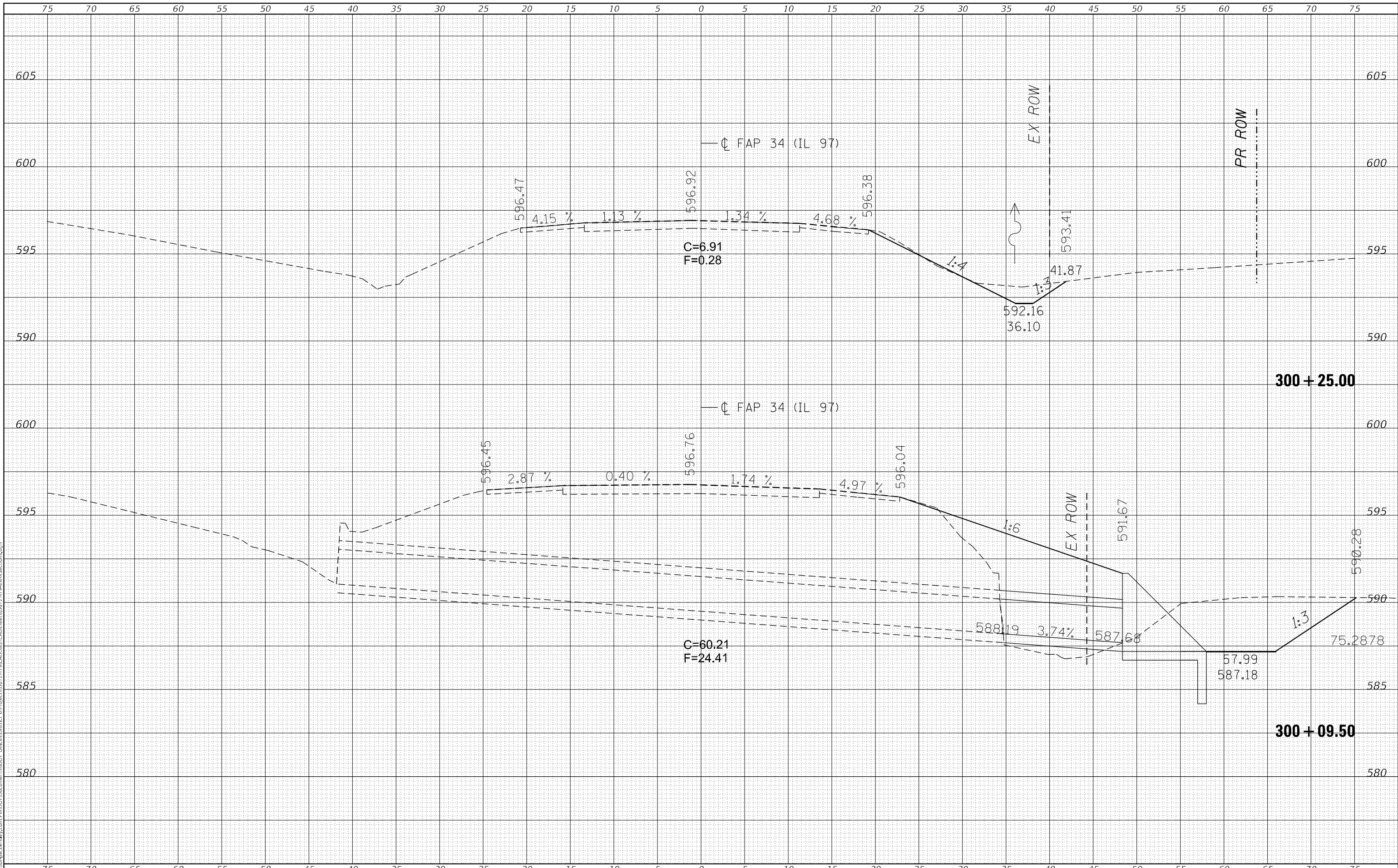
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12, CLV, I-1	MENARD	121	70
CONTRACT NO. 72M79				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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USER NAME = Jonathan Cox	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>IL 97 CROSS SECTIONS BOX CULVERT #2</b>		F.A.P. RTE. 34	SECTION 101RS-12, CLV, I-1	COUNTY MENARD	TOTAL SHEETS 121	SHEET NO. 71
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PLLOT DATE = 8/18/2023	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
							SCALE:	SHEET 9 OF 59 SHEETS	STA. 300+09.50 TO STA. 300+25.00		





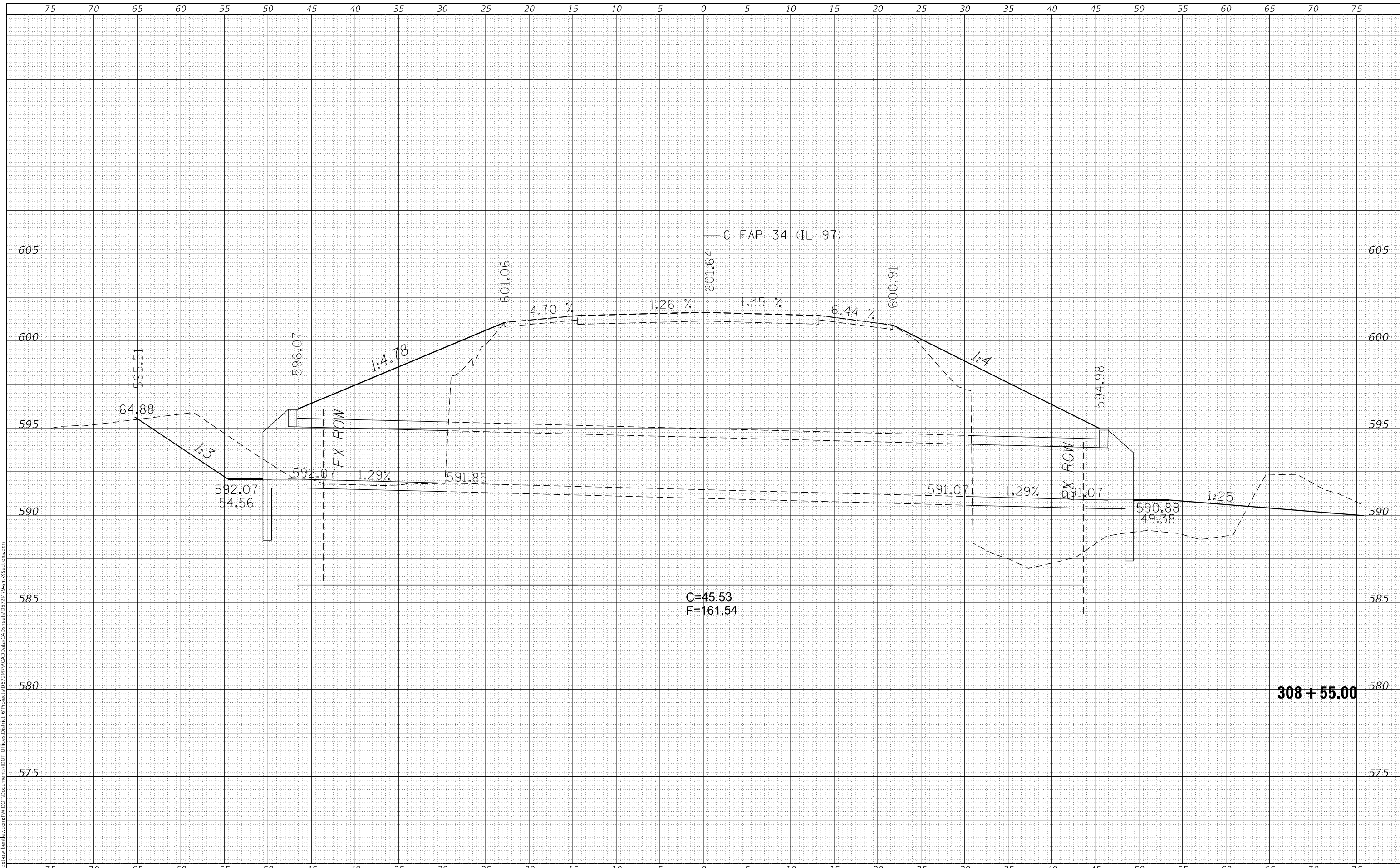




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AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	DRAWN -	REVISD -
PLOT SCALE = 10,0000' / in.	CHECKED -	REVISD -
PLOT DATE = 8/18/2023	DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>IL 97 CROSS SECTIONS BOX CULVERT #3</b>			
SCALE:	SHEET 13	OF 59 SHEETS	STA. 308+55.00 TO STA. 308+55.00

F.A.P. RTE. 34	SECTION 101RS-12,CLV.I-1	COUNTY MENARD	TOTAL SHEETS 121	SHEET NO. 75
			CONTRACT NO. 72M79	
		ILLINOIS FED. AID PROJECT		



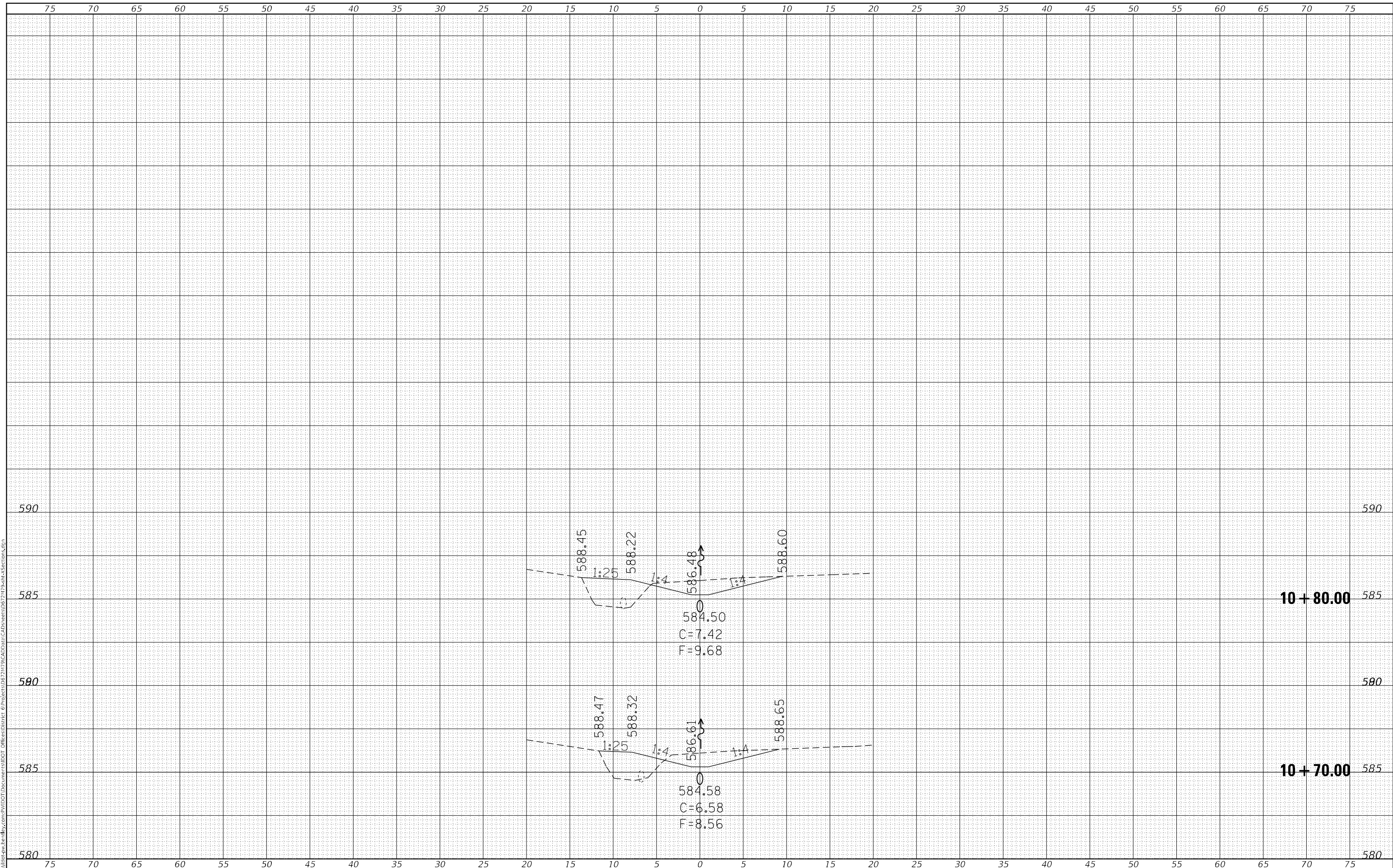




FINAL SURVEY NO.	SURVEYED	DATE
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SN 065-7010 CROSS SECTIONS**

SCALE: SHEET 17 OF 59 SHEETS STA. 10+70.00 TO STA. 10+80.00

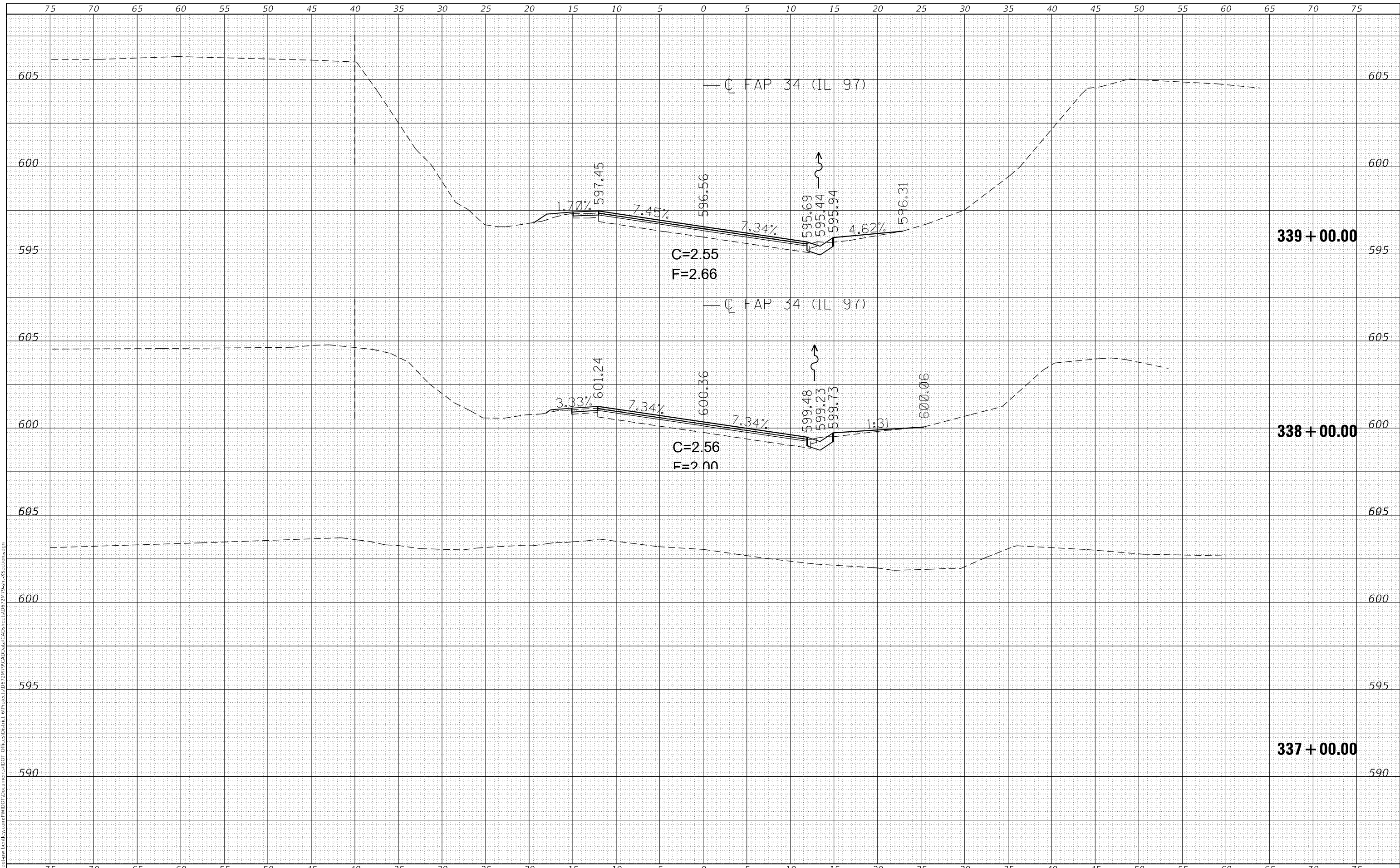
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV.I-1	MENARD	121	79
			CONTRACT NO. 72M79	

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 97 CROSS SECTIONS</b>			
SCALE:	SHEET 18	OF 59 SHEETS	STA. 337+00.00 TO STA. 339+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV.I-1	MENARD	121	80
			CONTRACT NO. 72M79	
ILLINOIS FED. AID PROJECT				













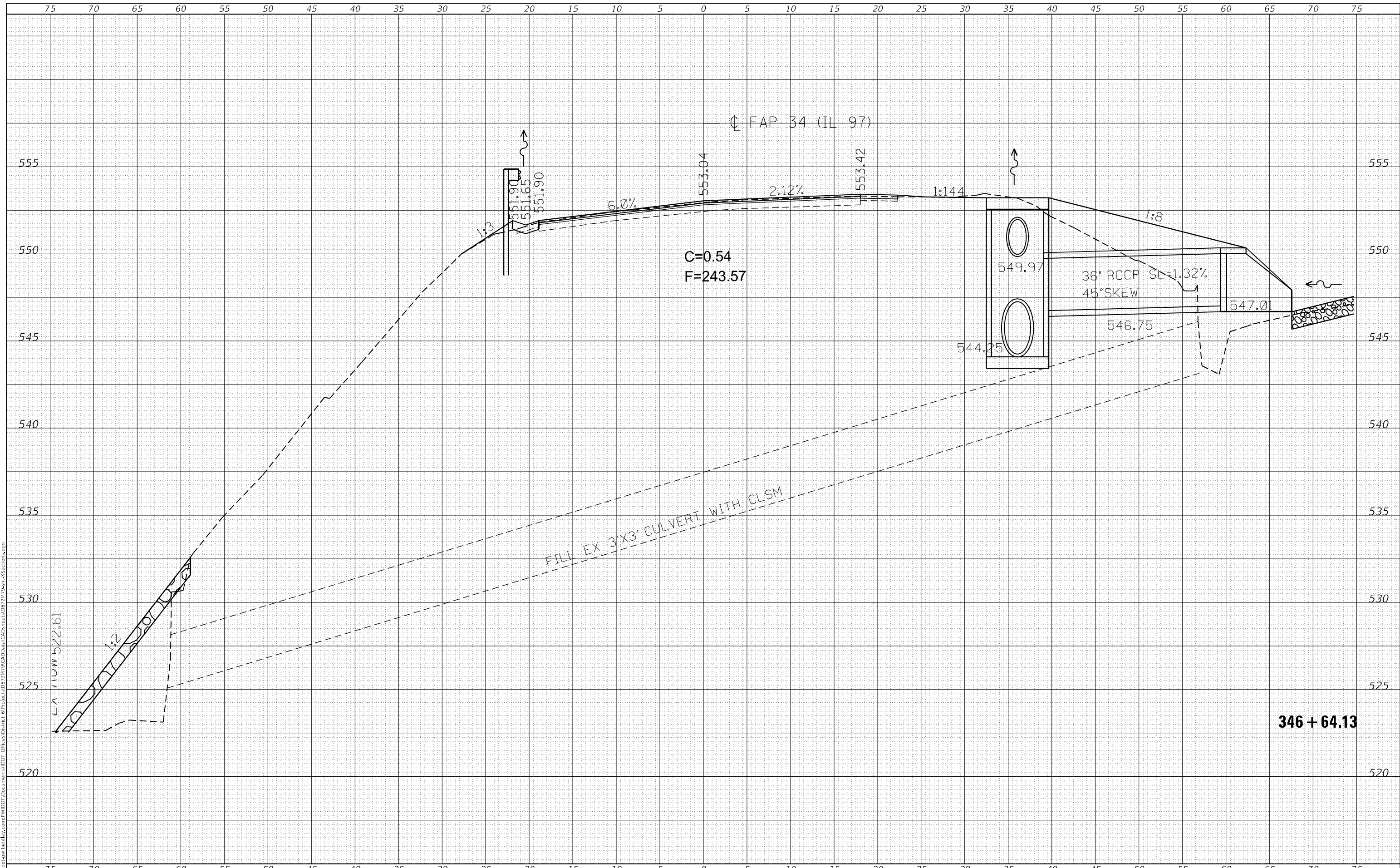




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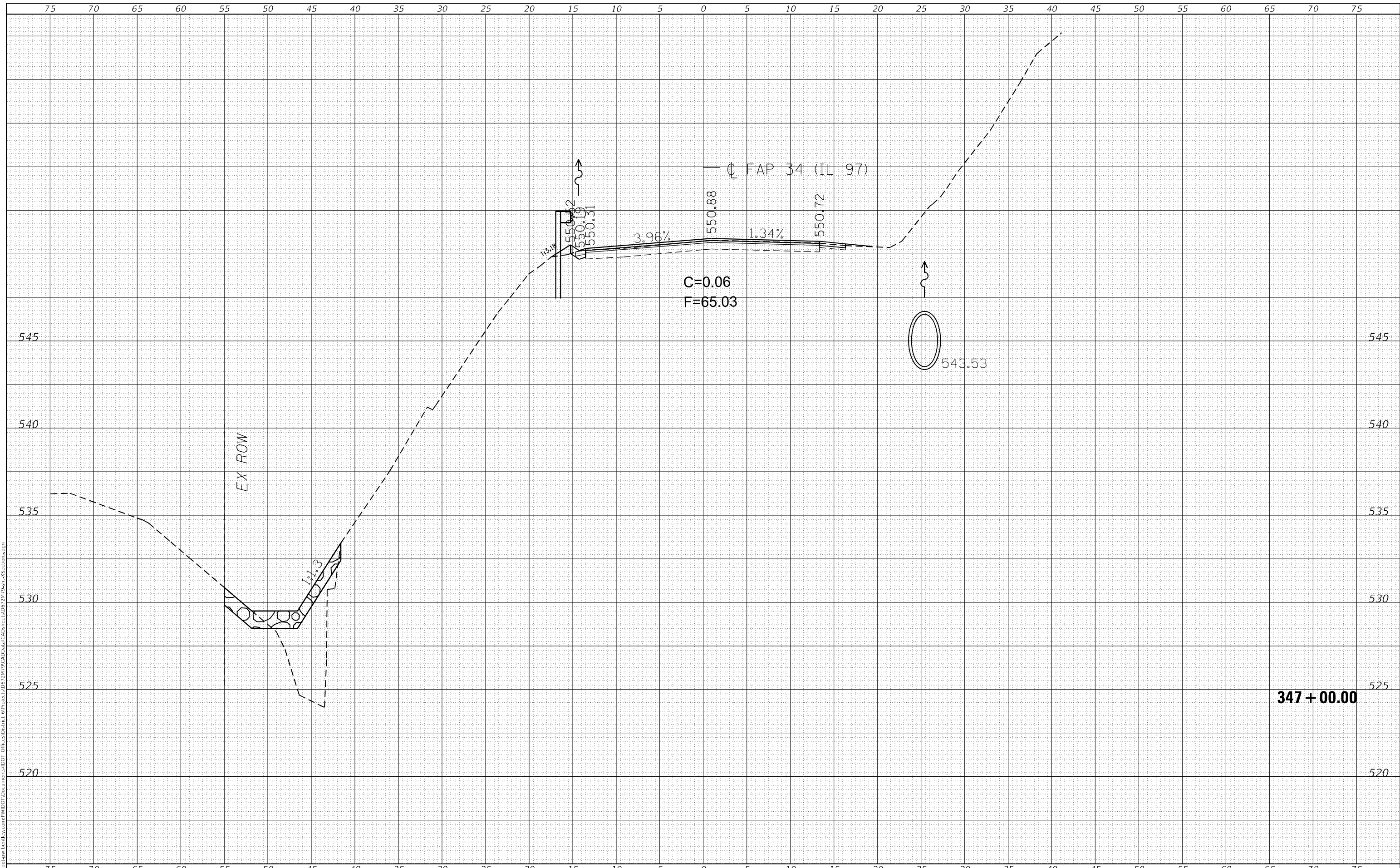
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PLOT SCALE = 10,000' = 1"	CHECKED -	REVISD -				SCALE:	SHEET 26 OF 59 SHEETS	STA. 346+64.13 TO STA. 346+64.13	CONTRACT NO. 72M79		ILLINOIS FED. AID PROJECT
PLOT DATE = 3/18/2024	DATE -	REVISD -									



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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PLOT DATE = 8/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

SCALE: SHEET 27 OF 59 SHEETS STA. 347+00.00 TO STA. 347+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV.I-1	MENARD	121	89
			CONTRACT NO. 72M79	
		ILLINOIS FED. AID PROJECT		



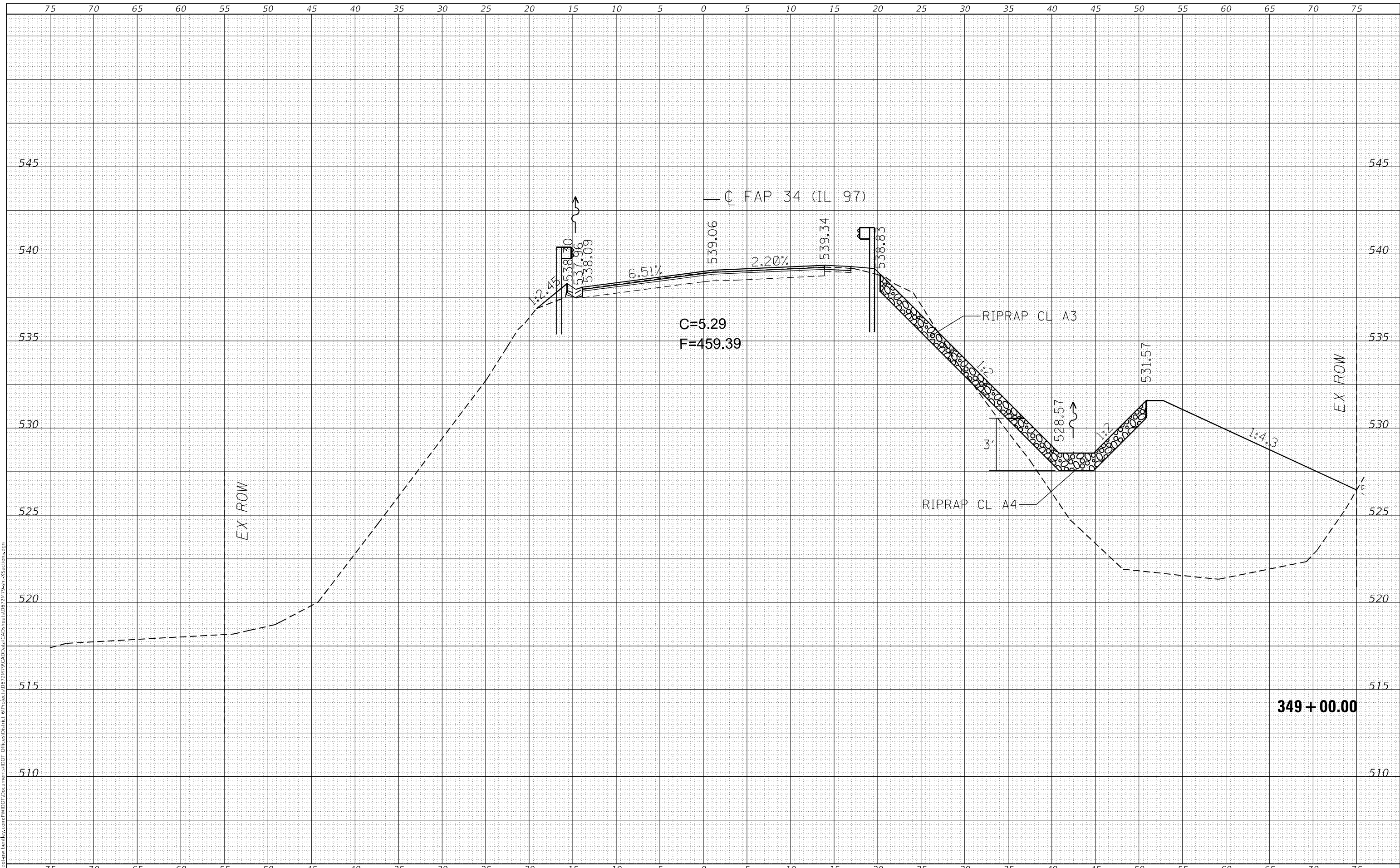




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BY	
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FINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	

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PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

SCALE: SHEET 31 OF 59 SHEETS STA. 349+00.00 TO STA. 349+00.00

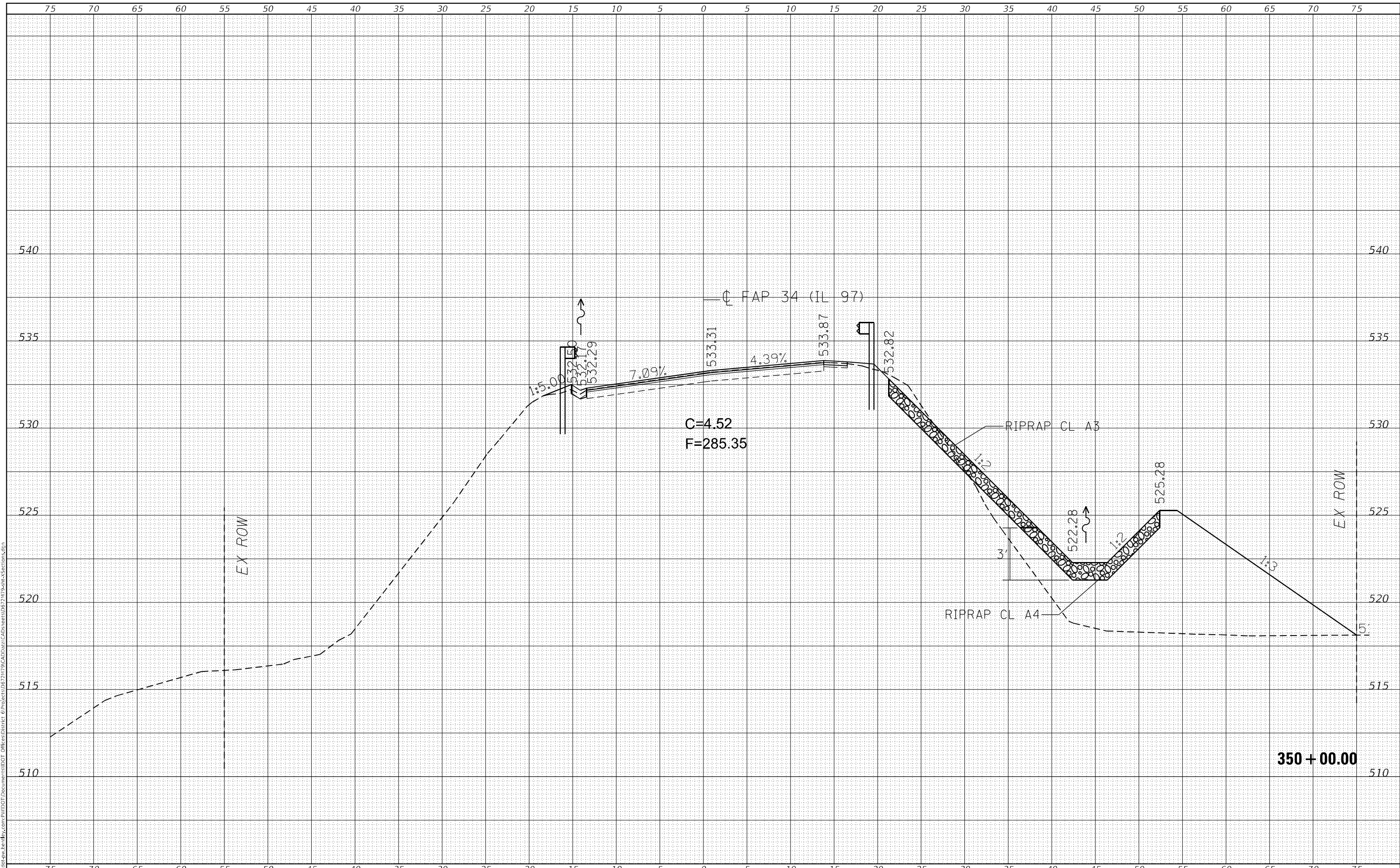
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV.I-1	MENARD	121	93
CONTRACT NO. 72M79			ILLINOIS FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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PLOT SCALE = 10,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

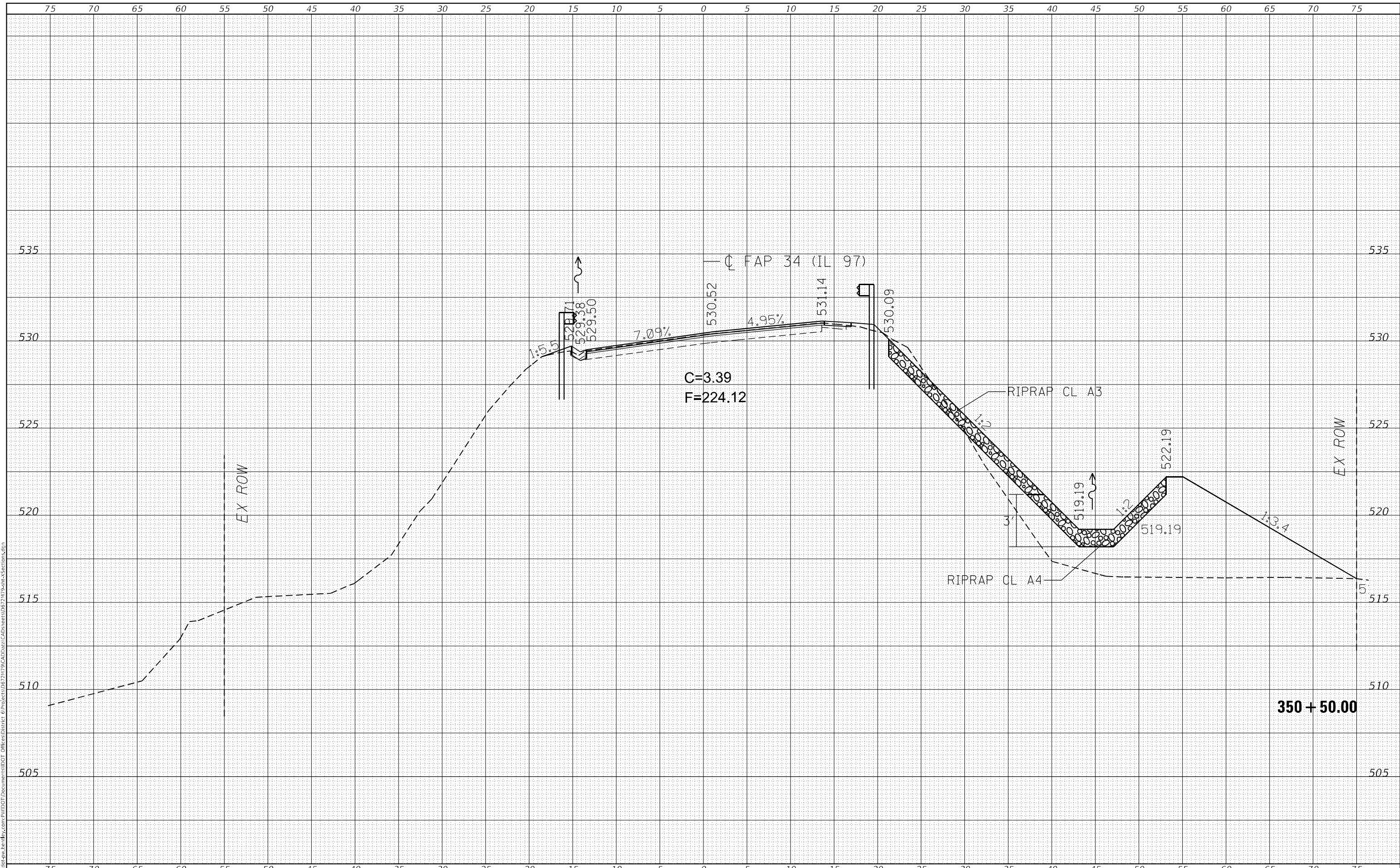
SCALE: SHEET 33 OF 59 SHEETS STA. 350+00.00 TO STA. 350+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12.CLV.I-1	MENARD	121	95
			CONTRACT NO. 72M79	
			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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USER NAME = jonathan.Cox	DESIGNED -	REVISD -
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PLOT DATE = 8/18/2023	DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

SCALE: SHEET 34 OF 59 SHEETS STA. 350+50.00 TO STA. 350+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	96
CONTRACT NO. 72M79				
ILLINOIS		FED. AID PROJECT		





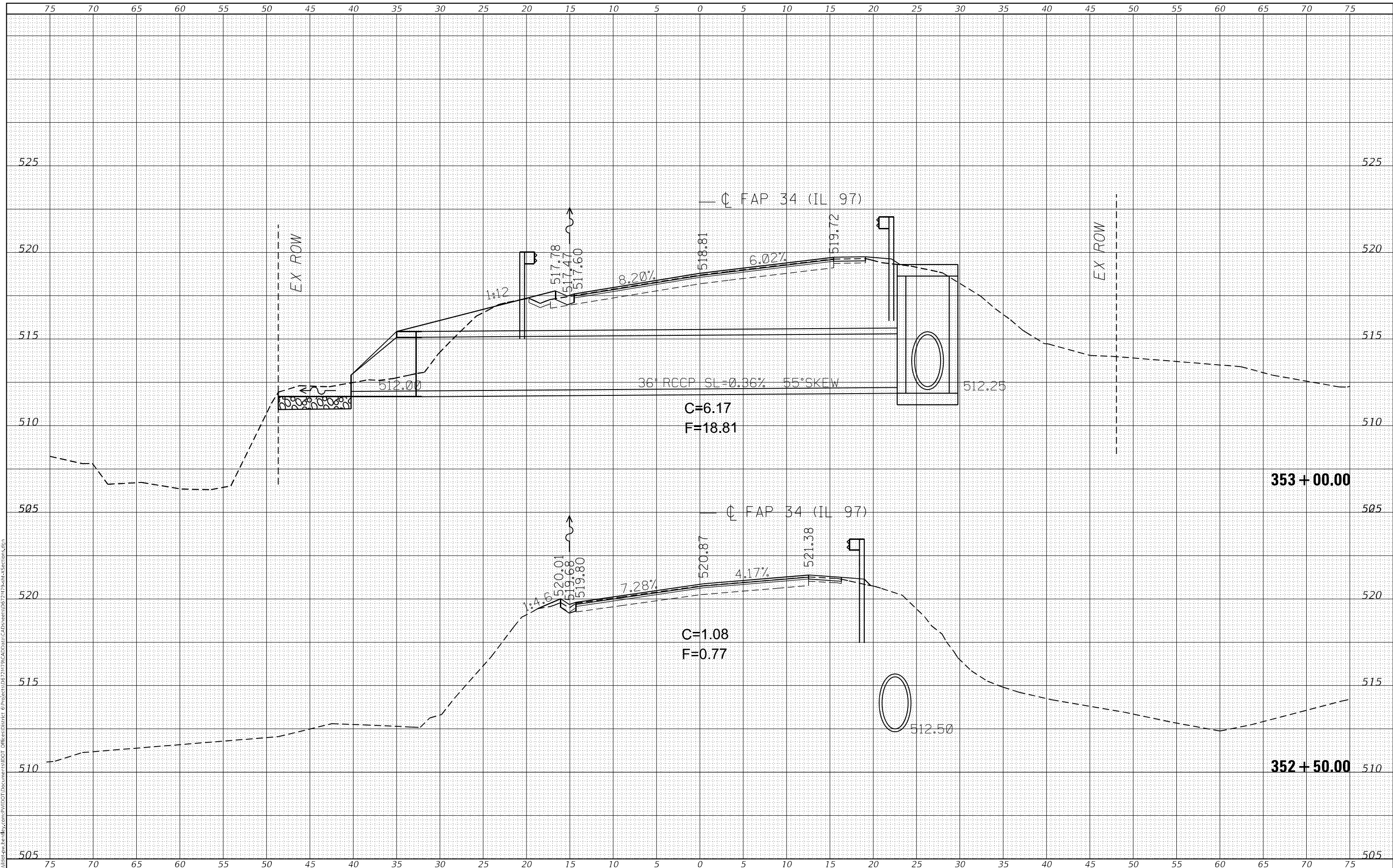




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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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PLOT DATE = 8/18/2023	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

SCALE: SHEET 38 OF 59 SHEETS STA. 352+50.00 TO STA. 353+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	100
CONTRACT NO. 72M79				
ILLINOIS		FED. AID PROJECT		

























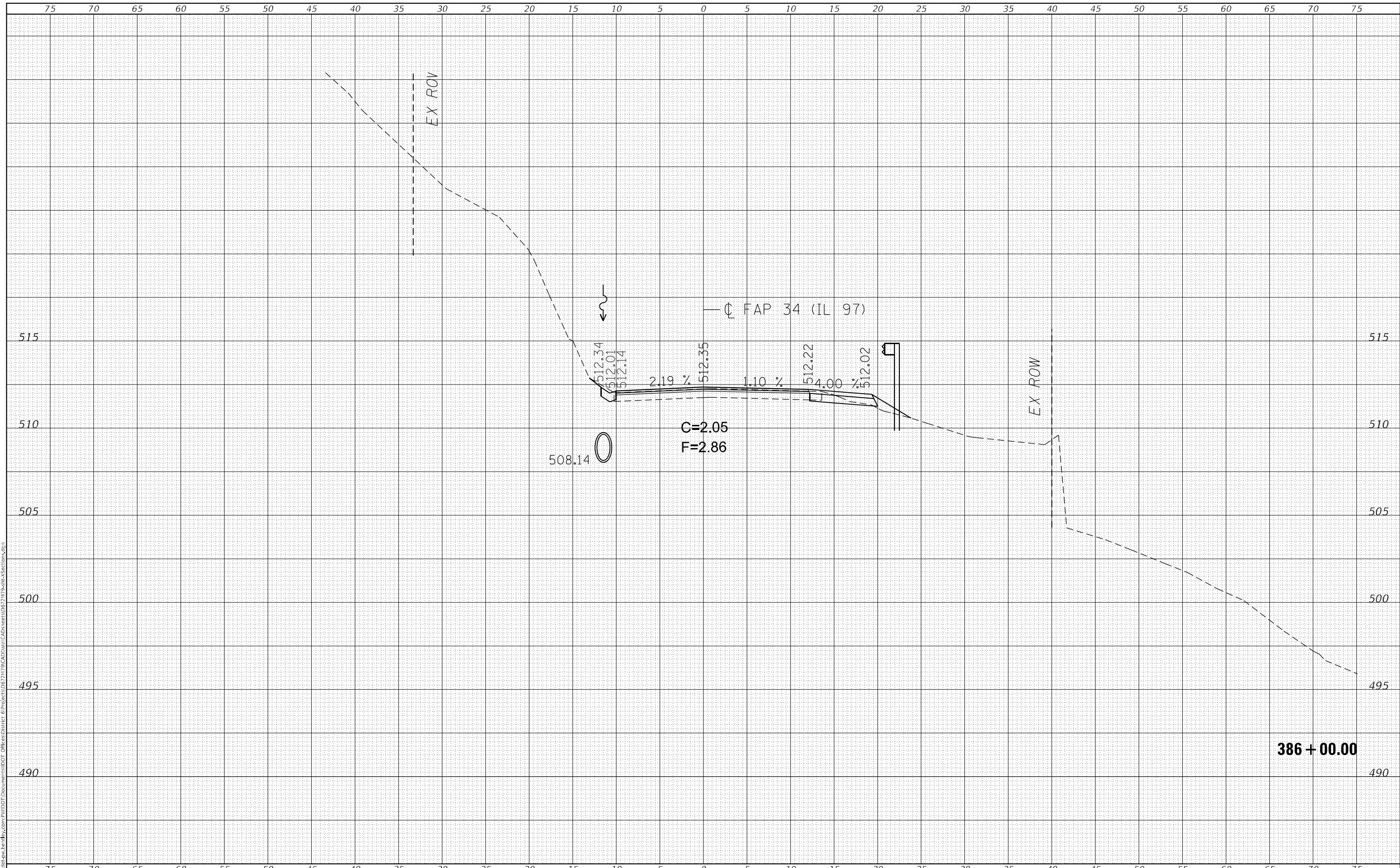




FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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	PLOTTED	
	TEMPLATE	
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PLOT SCALE = 10,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 97 CROSS SECTIONS**

SCALE: SHEET 51 OF 59 SHEETS STA. 386+00.00 TO STA. 386+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	101RS-12,CLV,I-1	MENARD	121	113
			CONTRACT NO. 72M79	
			ILLINOIS FED. AID PROJECT	

**386 + 00.00**

















