

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. CLAIR	28	1
		ILLINOIS	CONTRACT NO.	

ST. CLAIR COUNTY TRANSIT DISTRICT

PROPOSED PLANS FOR METROBIKELINK SHILOH/SCOTT REALIGNMENT

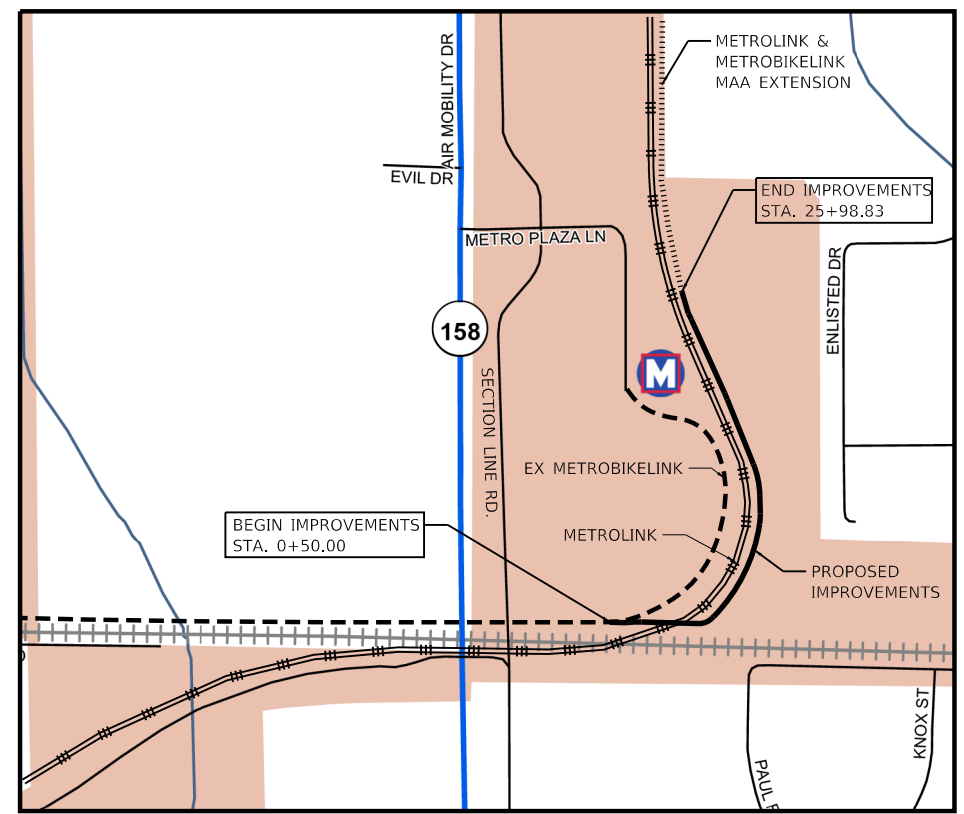
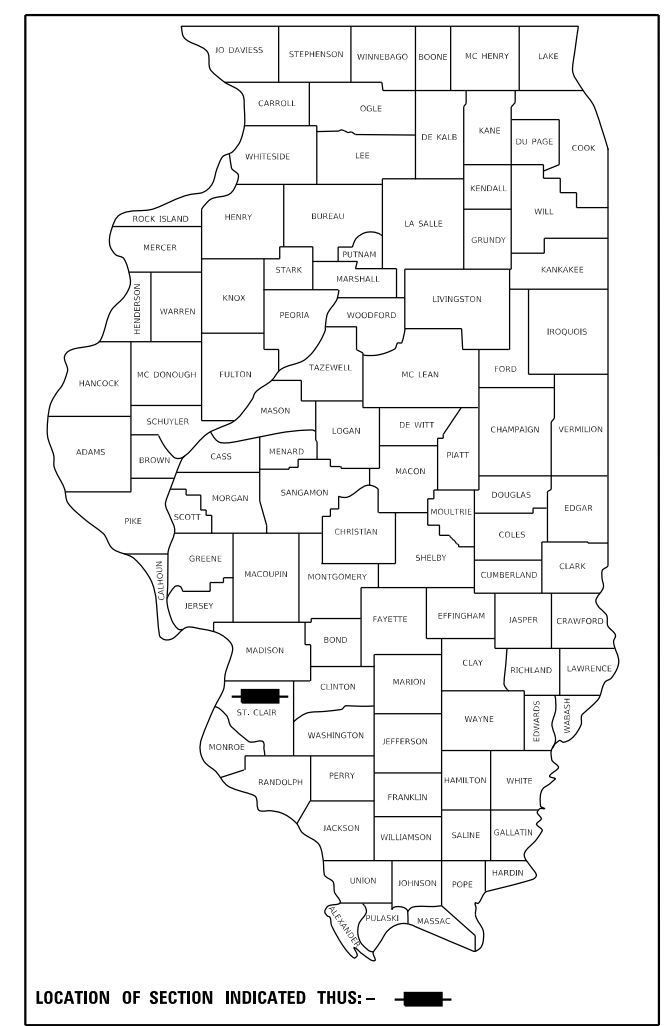
**ST. CLAIR COUNTY
2024**

INDEX OF SHEETS

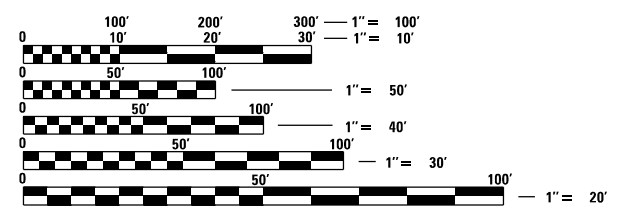
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IDOT HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS
- 602306-03 INLET TYPE B
- 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604101-01 MEDIAN INLET FOR 24" REINFORCED CONCRETE PIPE
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-09 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

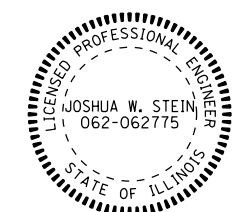


GROSS LENGTH = 2,548.8 FT. = 0.483 MILE
NET LENGTH = 2,548.8 FT. = 0.483 MILE



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



7/9/2024
Joshua W. Stein
JOSHUA W. STEIN, P.E. EXPIRATION DATE
LICENSE NO. 062-062775 11-30-2025

PLANS PREPARED BY:
TWM
ENGINEERING
GEOSPATIAL SERVICES
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
www.twm-inc.com
Illinois Professional Design Firm
No. 184-001220
License Expires: 04/30/2025
ILLINOIS - MISSOURI - TENNESSEE

ST. CLAIR COUNTY
STATE OF ILLINOIS

APPROVED NOV 6 2024
Ken Sharkey
KEN SHARKEY, SCCTD

GENERAL

FOR CODED PAY ITEM DESCRIPTIONS, INCLUDED ITEMS, AND ALL MATERIAL SPECIFICATIONS, PLEASE REFER TO THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ST. CLAIR COUNTY TRANSIT WILL PROVIDE ALL REFERENCE POINTS AND/OR BENCHMARKS AS NEEDED TO CONSTRUCT THE PROJECT. SEE PLAN AND PROFILE SHEETS.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.

THE CONTRACTOR SHALL CONFINE HIS OR HER OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN PER PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO AN IDOT HIGHWAY STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

PROPERTY OWNER ACCESS

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION, UNLESS THE CONTRACTOR MAKES ARRANGMENTS WITH EACH PROPERTY OWNER, WITH A COPY TO THE ENGINEER.

PAVING

CONTINUOUS PAVING OPERATIONS ON MAINLINE BIKE TRAIL SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT PAVEMENT.

UTILITIES

THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS; THEREFORE, THEIR EXACT LOCATION, SIZE AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES AT THIS LOCATION PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS, WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

ANY SUBSURFACE UTILITY WITHIN THE CONSTRUCTION LIMITS IS TO BE VERIFIED FOR ACTIVITY AND ALL ABANDONED UTILITIES ARE TO BE REMOVED. COST INCLUDED IN COST OF EARTH EXCAVATION.

LIST OF UTILITIES

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.

UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- ELECTRIC = AMEREN IL
- GAS = AMEREN IL
- WATER = CITY OF O'FALLON
- CABLE T.V. = CHARTER COMMUNICATIONS
- TELEPHONE = AT&T DISTRIBUTIONS
- SEWER = CITY OF O'FALLON
- FIBER/COMS = METROLINK

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

DRAINAGE

EXISTING DITCHES/SWALES MAY NEED TO BE REGRADED/SHAPED TO ENSURE ALL FLOWS ENTER THE PROPER DITCH, CULVERT, POND, OR OTHER DRAINAGE APPURTENANCES DURING AND AT THE COMPLETION OF THE PROJECT. COST SHALL BE INCLUDED IN COST OF EARTH EXCAVATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE DURING VARIOUS STAGES OF CONSTRUCTION. THIS INCLUDES ALL LABOR MATERIALS USED BEYOND WHAT IS SPECIFIED IN THE PLANS. ITEMS SUCH AS TEMPORARY DITCHES AND PIPES DEEMED NECESSARY FOR MAINTAINING DRAINAGE ARE CONSIDERED TO BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE PAID SEPARATELY.

EROSION CONTROL

ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE IMPLEMENTED AS SHOWN ON THE PLAN SHEETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS, OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO INSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OR HER EXPENSE.

EROSION AND SEDIMENT CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE IDOT STANDARD SPECIFICATIONS, THE PROJECT PLANS SHOWING EROSION CONTROL ITEMS, AND THE STORM WATER POLLUTION PREVENTION PLAN IN THE PROPOSAL BOOKLET. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED EARLY IN THE CONSTRUCTION STAGES AND BE MAINTAINED FOR THE DURATION OF THE PROJECT AS INDICATED ON THE PLANS AND AS DIRECTED BE THE ENGINEER.

PIPE CULVERTS

THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPE SIZES AND TYPES PRIOR TO ORDERING MATERIALS FOR PIPE CULVERT EXTENSIONS.

COMMITMENTS

CONTRACTOR SHALL WAIT UNTIL FALL HARVEST HAS COMPLETED BEFORE COMMENCING WITH WORK THAT WOULD DAMAGE ANY CROPS.

HMA MIX REQUIREMENTS

MIXTURE USE	SURFACE - TRAIL
DETPH	2"
AC/PG	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGG	MIXTURE *C"

PLAN QUANTITIES FOR BITUMINOUS CONCRETE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQYD/INCH

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TWM, INC.
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IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = jstein
PLOT SCALE = 30.0000 ' / in.
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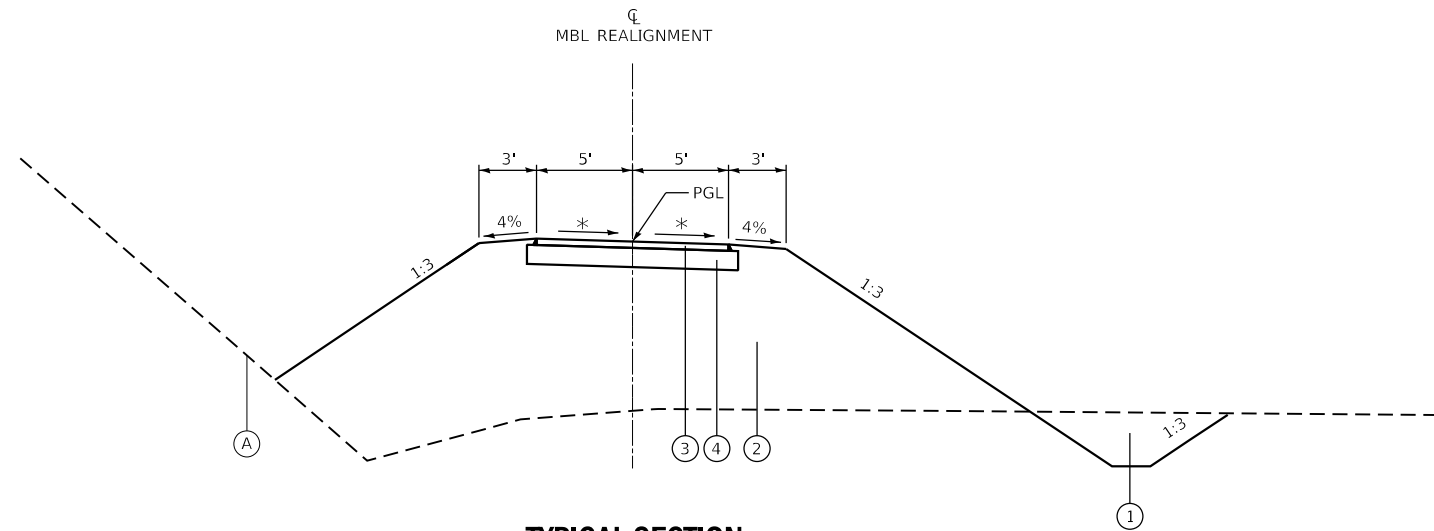
GENERAL NOTES			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

MBL REALIGNMENT

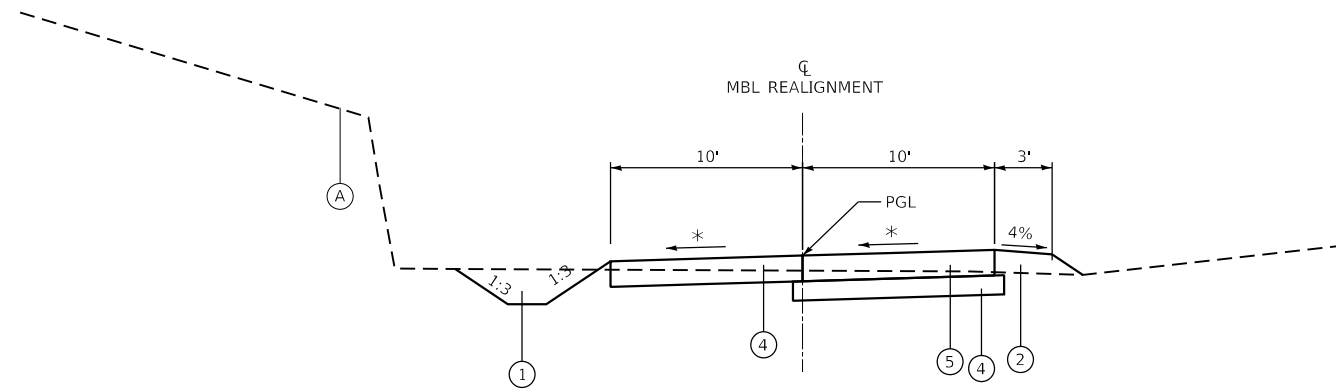
COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	2
CONTRACT NO.		

LEGEND

- Ⓐ EX. GROUND
- ① PR. EXCAVATION
- ② PR. EMBANKMENT
- ③ PR. HOT-MIX ASPHALT SURFACE COURSE, 2"
- ④ PR. AGGREGATE BASE COURSE, TY A, 6"
- ⑤ PR. PCC SIDEWALK, 6" (SPECIAL)

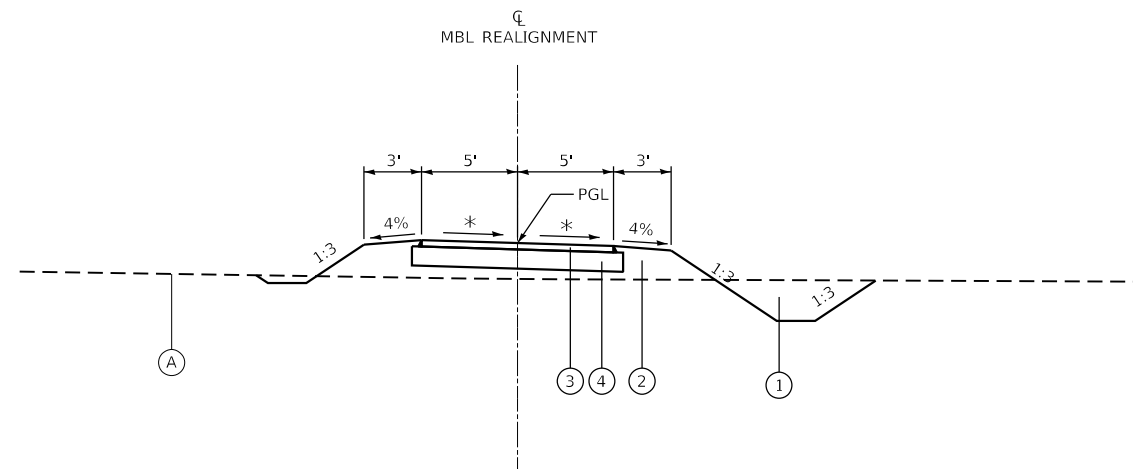


TYPICAL SECTION
 STA. 0+50.00 TO STA. 2+40.00
 STA. 5+93.81 TO STA. 21+00.00
 STA. 22+00.00 TO STA. 25+98.83



TYPICAL SECTION
 STA. 2+40.00 TO STA. 5+93.81

*SEE CROSS SECTIONS FOR SLOPES (1.5% MAX)



TYPICAL SECTION
 STA. 21+00.00 TO STA. 22+00.00

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

MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	4
CONTRACT NO.		

EARTHWORK SCHEDULE							
			FOR INFORMATION ONLY				
			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	FURNISHED EXCAVATION
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD	CU YD
METROBIKELINK							
0+50.00	TO	26+00.00	580	435	4070	-3635	3635
LOW WATER X-ING			35	26			0
SUB-TOTAL:			615	461	4070	-3635	3635
PAY TOTAL:			620				3635

EROSION CONTROL SCHEDULE							
LOCATION				TEMPORARY DITCH CHECKS		PERIMETER EROSION BARRIER	HEAVY DUTY EROSION CONTROL BLANKET
STATION	TO	STATION	LT/RT	EACH	FOOT	FOOT	SQ YD
METROBIKELINK							
0+50.00	TO	6+00.00	RT			585	
0+50.00	TO	2+35.00	LT			190	
3+40.00	TO	6+00.00	LT	2	9		
6+00.00	TO	13+75.00	RT	10	9		
6+00.00	TO	13+75.00	LT	10	6		
13+75.00	TO	26+00.00	RT	14	9		
13+75.00	TO	26+00.00	LT	10	9		
13+60.00	TO	15+85.00	LT				1495
13+60.00	TO	13+90.00	RT				240
TOTAL:					384	775	1735

PAVING SCHEDULE									
LOCATION				AGGREGATE SUBGRADE IMPROVEMENT	AGGREGATE BASE COURSE, TYPE A	PORTLAND CEMENT CONCRETE PAVEMENT, 8" (SPECIAL)	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH (SPECIAL)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	BITUMINOUS MATERIALS (PRIME COAT)
STATION	TO	STATION	LT/RT	TON	TON	SQ YD	SQ FT	TON	POUND
METROBIKELINK									
0+50.00	TO	2+40.00		3.6	99.5			29.0	581.6
2+40.00	TO	5+93.81		11.4	313.8		3538.0		
5+93.81	TO	25+98.83		31.2	857.7			249.5	5012.6
FARM CROSSING									
13+61.12	TO	13+89.20	RT		34.4	66.7			
EXISTING METROBIKELINK (PROVISIONAL)									
313+00.00	TO	331+00.00		28.0				224.0	4500.0
TOTAL:				74	1305	67	3538	502	10094

RIPRAP SCHEDULE			
LOCATION		STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	LT/RT	SQ YD	SQ YD
METROBIKELINK			
13+75.00	RT	130.0	130.0
TOTAL:		130	130

DRAINAGE SCHEDULE												
LOCATION							INLET AND PIPE PROTECTION	METAL FLARED END SECTIONS, 18"	REMOVE AND RELOCATE END SECTIONS	PIPE CULVERTS, CLASS A	PIPE CULVERTS, CLASS D	INLETS, TYPE B, WITH MEDIAN INLET (604101)
STATION	OFFSET	LT/RT	TO	STATION	OFFSET	LT/RT	EACH	EACH	EACH	TYPE 1	TYPE 1	EACH
							42	18"	FOOT	FOOT		
METROBIKELINK												
5+59.61	11.70	LT	TO	6+00.00	15.11	RT	1	2			43.0	
12+69.99	12.17	LT	TO	12+75.00	12.29	LT	1				4.0	1
12+75.00	12.29	LT	TO	12+75.00	21.03	RT	1	1			30.0	1
13+68.77	28.59	LT	TO	13+66.57	27.37	LT			1	56.0		
13+76.35	28.28	LT	TO	13+73.92	27.67	LT			1	56.0		
13+83.98	27.61	LT	TO	13+80.74	28.30	LT			1	56.0		
13+91.44	27.33	LT	TO	13+87.42	28.52	LT			1	56.0		
14+50.00	21.24	LT	TO	14+50.00	22.30	RT	1	2			39.0	
20+20.00	14.08	LT	TO	20+20.00	14.59	RT	1	2			24.0	
TOTAL:							5	7	4	224	140	2

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SCHEDULE OF QUANTITIES
 SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	5
CONTRACT NO.		

PAVEMENT MARKING SCHEDULE								
LOCATION				PAINT PAVEMENT MARKINGS			THERMOPLASTIC PAVEMENT MARKINGS	
				LINE 4" YELLOW FOOT	LINE 4" WHITE FOOT	LINE 12" WHITE FOOT	LETTERS & SYMBOLS SQ FT	
STATION	TO	STATION	LOCATION	TYPE				
METROBIKELINK								
+50.00	TO	2+40.00	TRAIL CL - HMA	SKIP-DASH	47.50			
2+05.00			CONNECTOR	33"X33" THERMO W3-1 SIGN			8.00	
2+05.00			CONNECTOR	48"X48" THERMO R1-2 SIGN			16.00	
2+40.00	TO	6+00.00	TRAIL CL - PCC	SKIP-DASH	90.00			
6+00.00	TO	25+98.83	TRAIL CL - HMA	SKIP-DASH	499.70			
2+40.00		5+57.87	EOP LT - PCC	SOLID		317.87		
5+11.58	TO	5+93.81	EOP RT - PCC	SOLID		82.23		
2+18.25			CONNECTOR LEFT	STOP BAR / SOLID	30.00		9.00	
24+85.00			NB LANE	33"X33" THERMO W3-1 SIGN			8.00	
25+75.00			NB LANE	48"X48" THERMO R1-2 SIGN			16.00	
25+95.83			SHILOH/SCOTT STA	STOP BAR / SOLID	10.00		5.00	
EXISTING METROBIKELINK								
313+00.00	TO	331+00.00	TRAIL CL - HMA	SKIP-DASH	450.00			
TOTAL:					1127	400	14	48

SEEDING SCHEDULE									
LOCATION				SEEDING, CLASS 3A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMP. EROSION CONTROL SEEDING (POUND) (2 APPL.)
STATION	TO	STATION	LOCATION	ACRE	POUND	POUND	POUND	ACRE	POUND
METROBIKELINK									
0+50.00	TO	25+99.70	LEFT	0.607	54.6	54.6	54.6	0.607	121.4
0+50.00	TO	25+99.18	RIGHT	0.903	81.3	81.3	81.3	0.903	180.6
13+60.00	TO	15+85.00	US CULVERTS	0.309	27.8	27.8	27.8		61.8
13+60.00	TO	13+90.00	DS CULVERTS	0.049	4.4	4.4	4.4		9.8
TOTAL:				1.868	168.1	168.1	168.1	1.510	373.6
PAY TOTAL:				1.75	170	170	170	1.50	370

REMOVAL SCHEDULE				
LOCATION			SIDEWALK REMOVAL	PAVEMENT REMOVAL
STATION	TO	STATION	SQ FT	SQ YD
METROBIKELINK				
0+50.00	TO	2+35.50		212.0
25+84.11	TO	25+99.18	53.8	
TOTAL:			54	212

EXISTING METROBIKELINK (PROVISIONAL QUANTITIES) SCHEDULE								
LOCATION				AGGREGATE SUBGRADE IMPROVEMENT	PULVERIZATION	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	BITUMINOUS MATERIALS (PRIME COAT)	THERMOPLASTIC PAVEMENT MARKING LINE 4"
STATION	TO	STATION	LT/RT	TON	SQ YD	TON	POUND	FOOT
EXISTING METROBIKELINK								
313+00.00	TO	331+00.00		28.0	2000	224.0	4500.0	450
TOTAL:				*	2000	*	*	*

SIGNAGE SCHEDULE							
LOCATION			DESCRIPTION			SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
STATION	OFFSET	LT/RT	SIGN	SHAPE	SIZE	SQ FT	FOOT
METROBIKELINK							
2+05.00	10.00	LT/RT	R1-2	OCT	30 X 30	6.25	16.5
25+95.83	8.00	RT	R1-2	OCT	30 X 30	6.25	16.5
TOTAL:						13	33

* SEE PAVING OR PVT MKG SCHEDULE FOR CONTRACT TOTALS

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USER NAME = jstein
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 11/5/2024

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

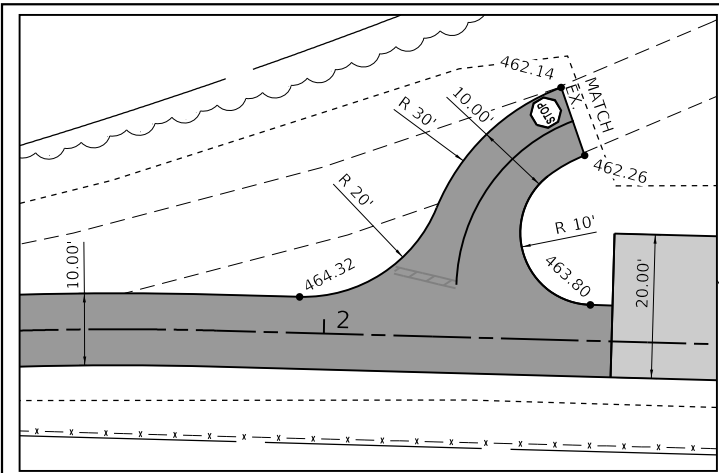
MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.		

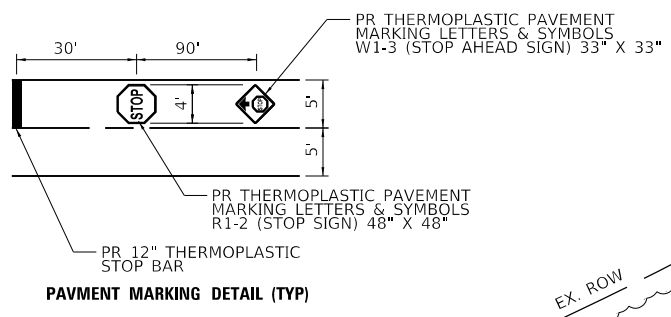
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PROFILE	SURVEYED	DATE
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	STRUCTURE NOTATIONS CHECKED	
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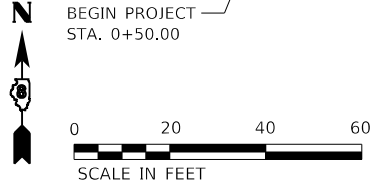
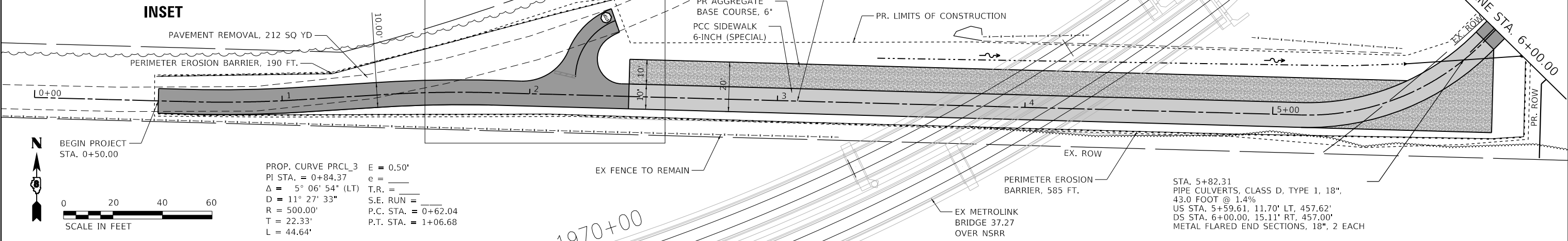
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NOTES:
TEMPORARY DITCH CHECKS AND INLET AND PIPE PROTECTION NOT SHOWN FOR CLARITY. SEE SCHEDULES.

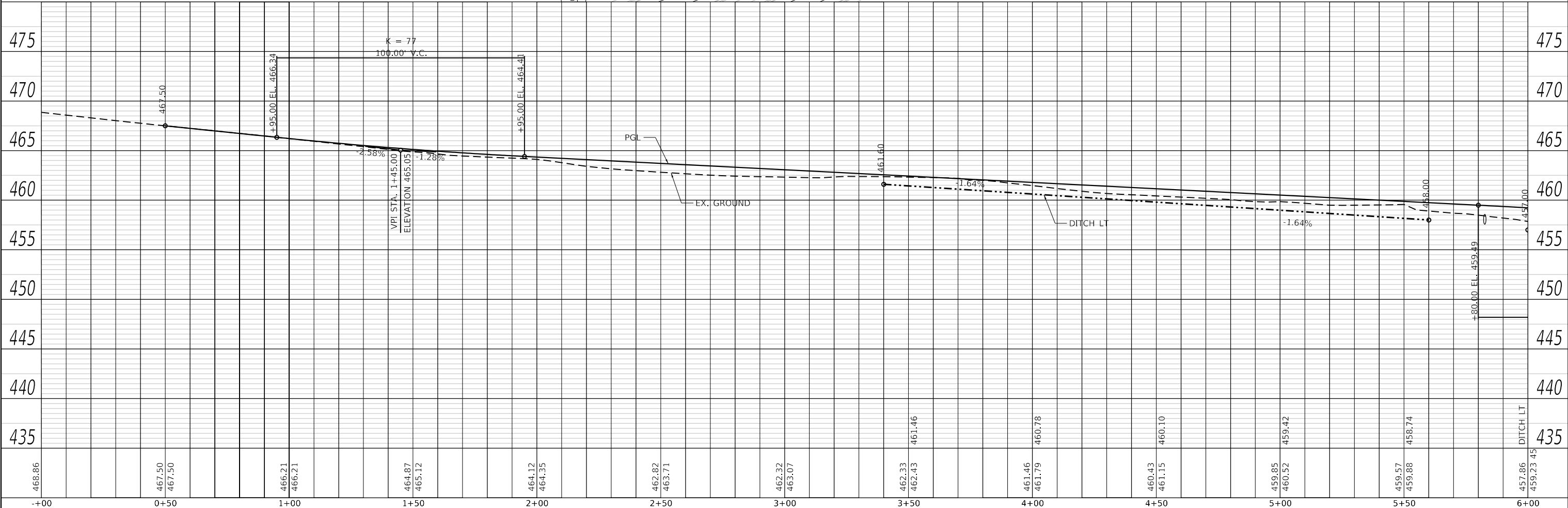
PROP. CURVE PRCL_6
PI STA. = 1+62.86
 $\Delta = 5^\circ 06' 54''$ (RT)
D = 11° 27' 33"
R = 500.00'
T = 22.33'
L = 44.64'
E = 0.50'
P.C. STA. = 1+40.52
P.T. STA. = 1+85.16

PROP. CURVE PRCL_9
PI STA. = 5+55.18
 $\Delta = 47^\circ 06' 52''$ (LT)
D = 57° 17' 45"
R = 100.00'
T = 43.60'
L = 82.23'
E = 9.09'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5+11.58
P.T. STA. = 5+93.81



PROP. CURVE PRCL_3
PI STA. = 0+84.37
 $\Delta = 5^\circ 06' 54''$ (LT)
D = 11° 27' 33"
R = 500.00'
T = 22.33'
L = 44.64'
E = 0.50'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 0+62.04
P.T. STA. = 1+06.68

STA. 5+82.31
PIPE CULVERTS, CLASS D, TYPE 1, 18",
43.0 FOOT @ 1.4%
US STA. 5+59.61, 11.70' LT, 457.62'
DS STA. 6+00.00, 15.11' RT, 457.00'
METAL FLARED END SECTIONS, 18", 2 EACH



TWM
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GEOSPATIAL SERVICES

TWM, INC.
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IL DESIGN FIRM
LICENSE NO. 184-001220

USER NAME = jstein
PLOT SCALE = 40,0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

SCD ST. CLAIR COUNTY
TRANSIT DISTRICT

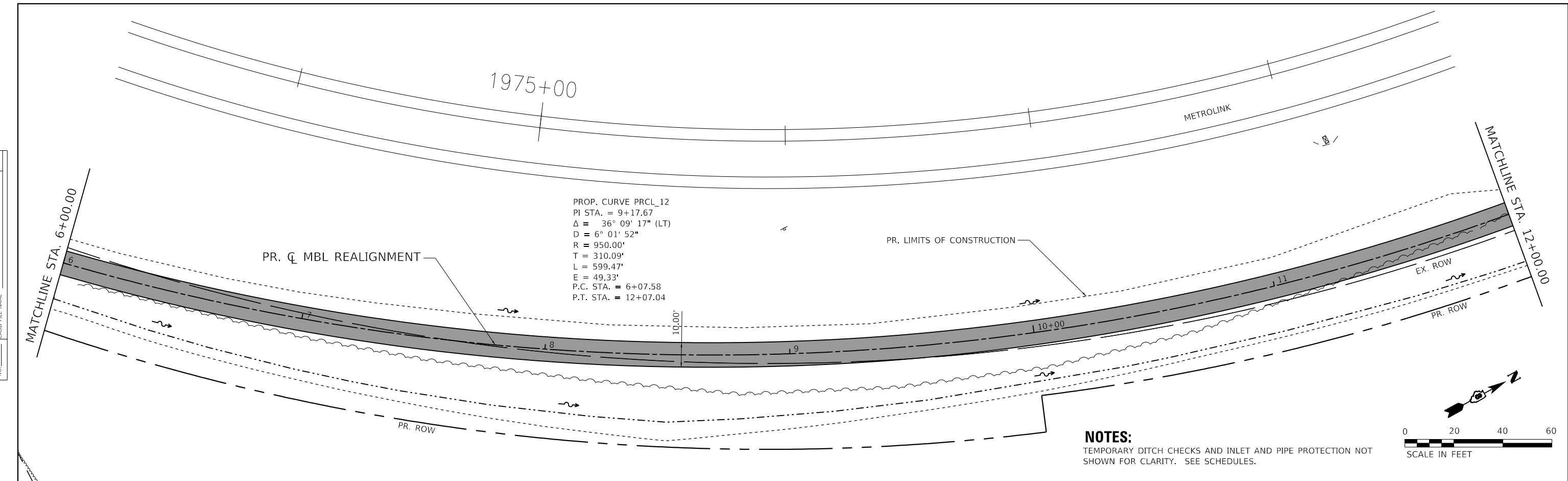
PLAN AND PROFILE
SCALE: 1"=20'
SHEET 1 OF 5 SHEETS
STA. 0+00.00 TO STA. 6+00.00

MBL REALIGNMENT

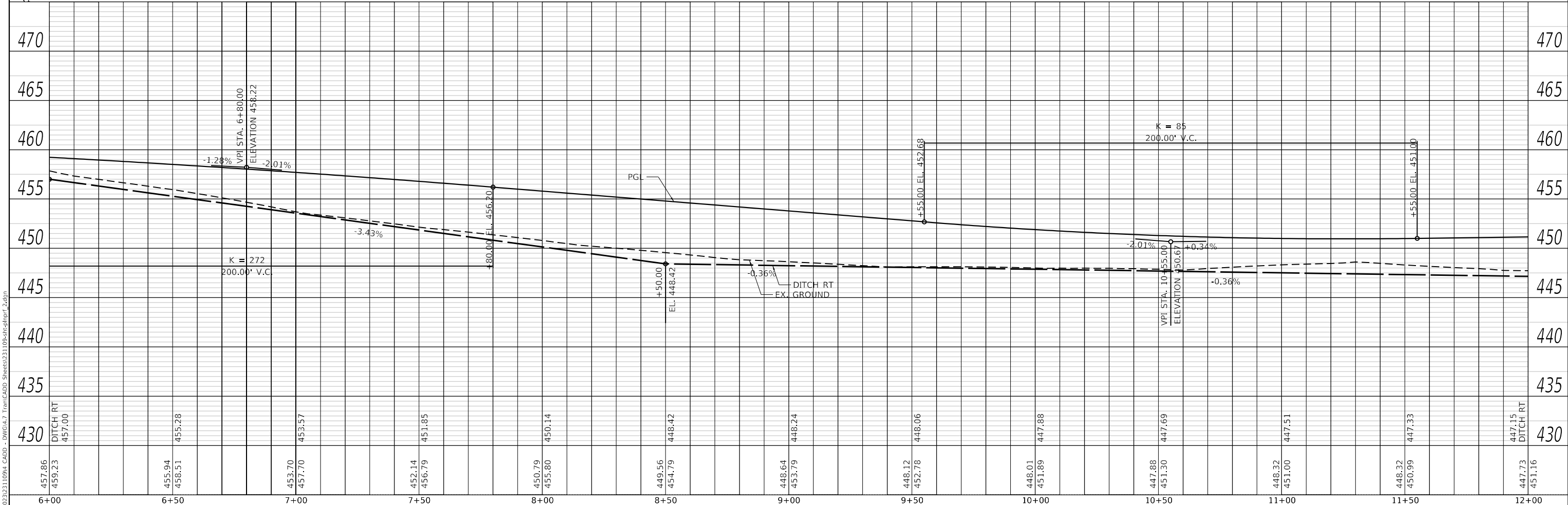
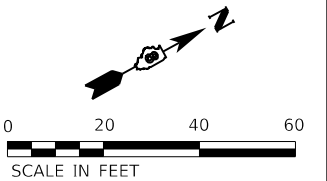
COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	7
CONTRACT NO.		

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



NOTES:
 TEMPORARY DITCH CHECKS AND INLET AND PIPE PROTECTION NOT SHOWN FOR CLARITY. SEE SCHEDULES.



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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 40.00000 ' / in.
PLOT DATE = 11/5/2024

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

SCD ST. CLAIR COUNTY
 TRANSIT DISTRICT

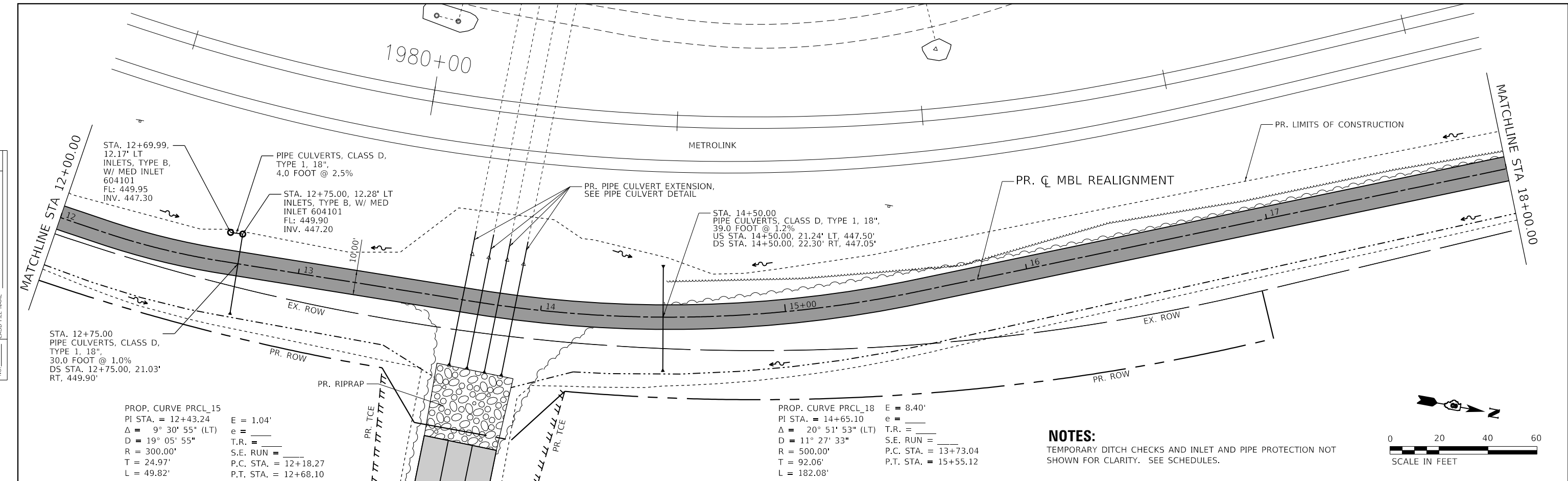
PLAN AND PROFILE			
SCALE: 1"=20'	SHEET 2	OF 5 SHEETS	STA. 6+00.00 TO STA. 12+00.00

MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	8
CONTRACT NO.		

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

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	NOTE BOOK
	NO.
	STRUCTURE NOTATIONS CHECKED
	NO.



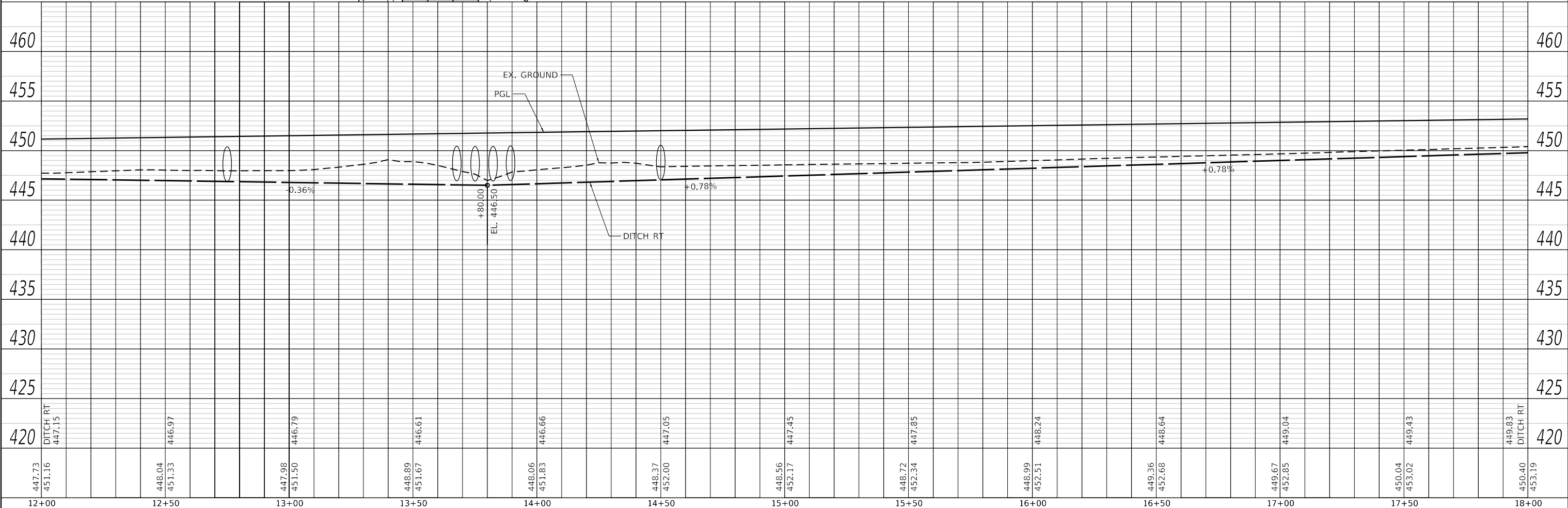
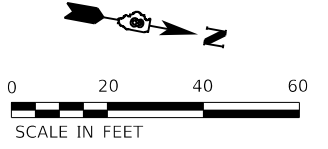
PROP. CURVE PRCL_15
 PI STA. = 12+43.24
 $\Delta = 9^\circ 30' 55''$ (LT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 24.97'$
 $L = 49.82'$

$E = 1.04'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 12+18.27$
 $P.T. STA. = 12+68.10$

PROP. CURVE PRCL_18
 PI STA. = 14+65.10
 $\Delta = 20^\circ 51' 53''$ (LT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 92.06'$
 $L = 182.08'$

$E = 8.40'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 13+73.04$
 $P.T. STA. = 15+55.12$

NOTES:
 TEMPORARY DITCH CHECKS AND INLET AND PIPE PROTECTION NOT SHOWN FOR CLARITY. SEE SCHEDULES.



447.73	448.04	447.98	448.89	448.06	448.37	448.56	448.72	448.99	449.36	449.67	450.04	449.83
451.16	451.33	451.50	451.67	451.83	452.00	452.17	452.34	452.51	452.68	452.85	453.02	453.19
447.15	446.97	446.79	446.61	446.66	447.05	447.45	447.85	448.24	448.64	449.04	449.43	449.83
12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00

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USER NAME = jstein
 PLOT SCALE = 40,00000 ' / in.
 DATE = 11/5/2024

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

SCD ST. CLAIR COUNTY
 TRANSIT DISTRICT

SCALE: 1"=20'
 SHEET 3 OF 5 SHEETS
 PLAN AND PROFILE
 STA. 12+00.00 TO STA. 18+00.00

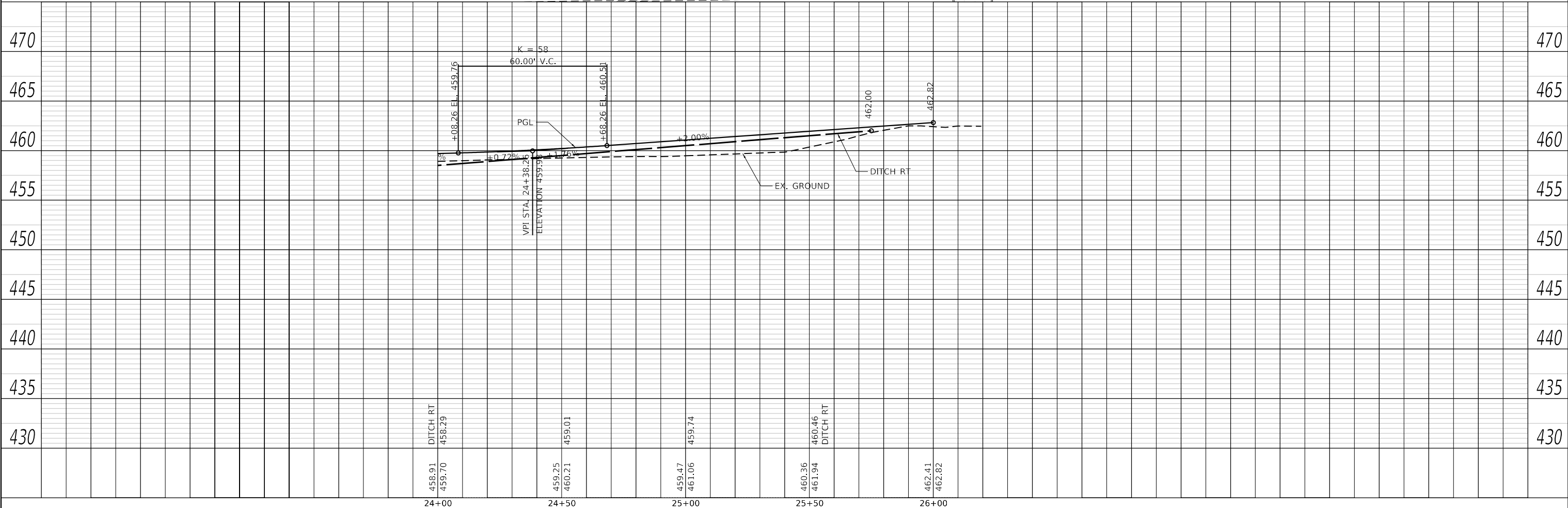
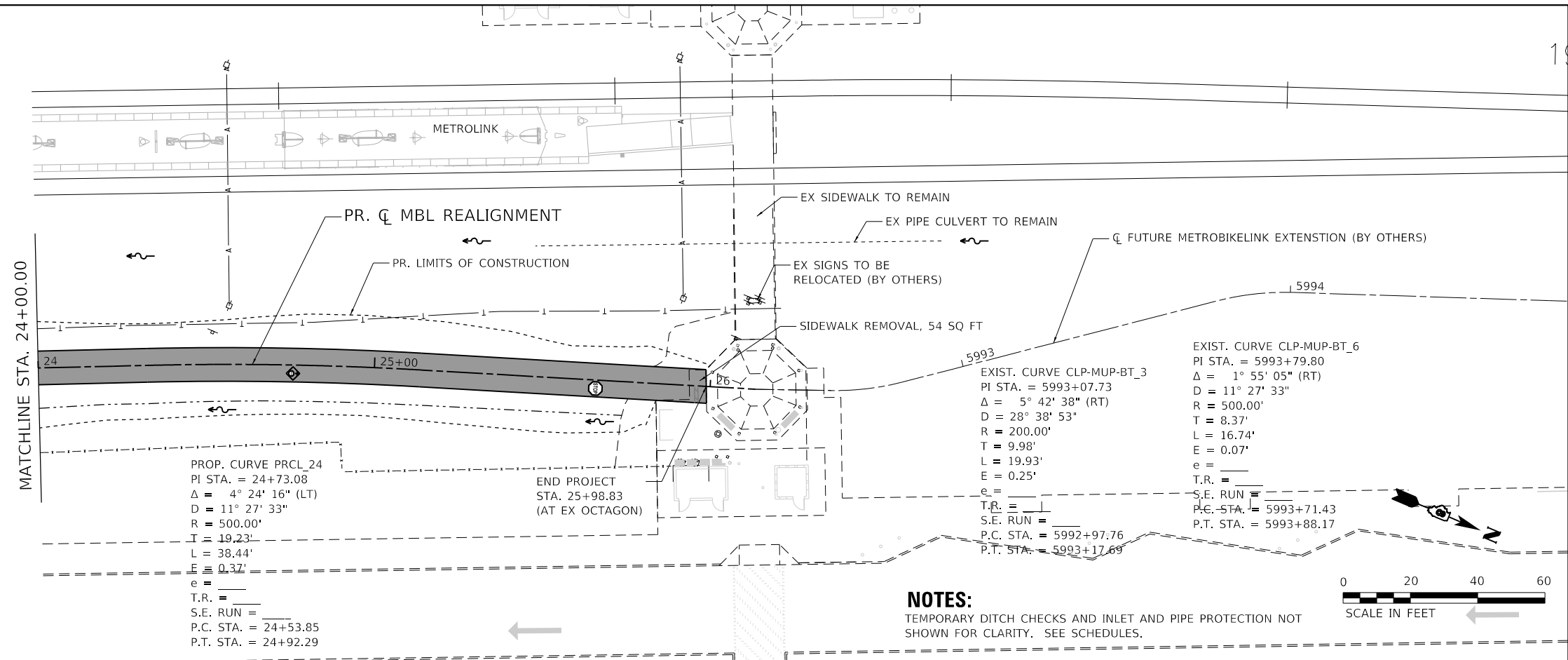
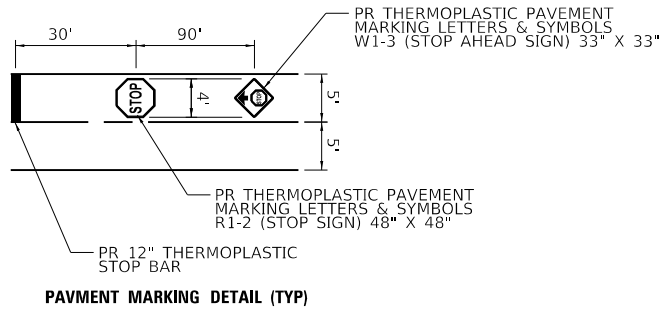
MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	9
CONTRACT NO.		

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

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MODEL: D:\s\h\...
 FILE NAME: P:\2023\231109\4_CADD...DWG\4.7_TranCADD_Sheet\231109-ph-gradlin_detail.dgn



USER NAME = jstein	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 11/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

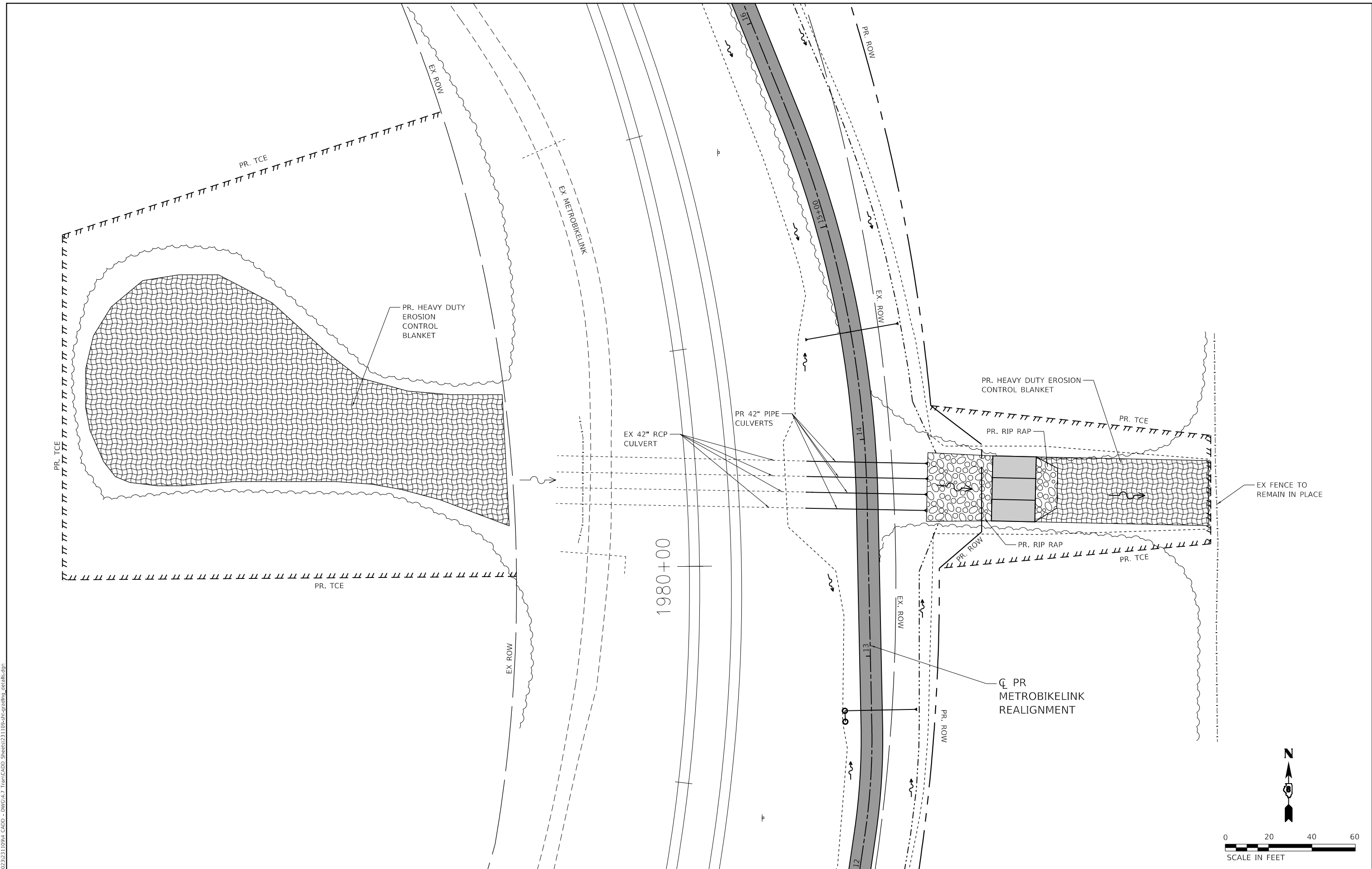
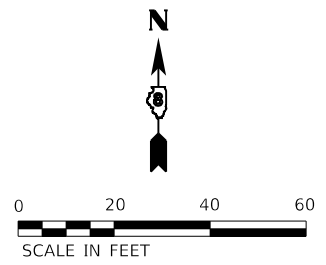
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



GRADING DETAIL			
SCALE: 1"=20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

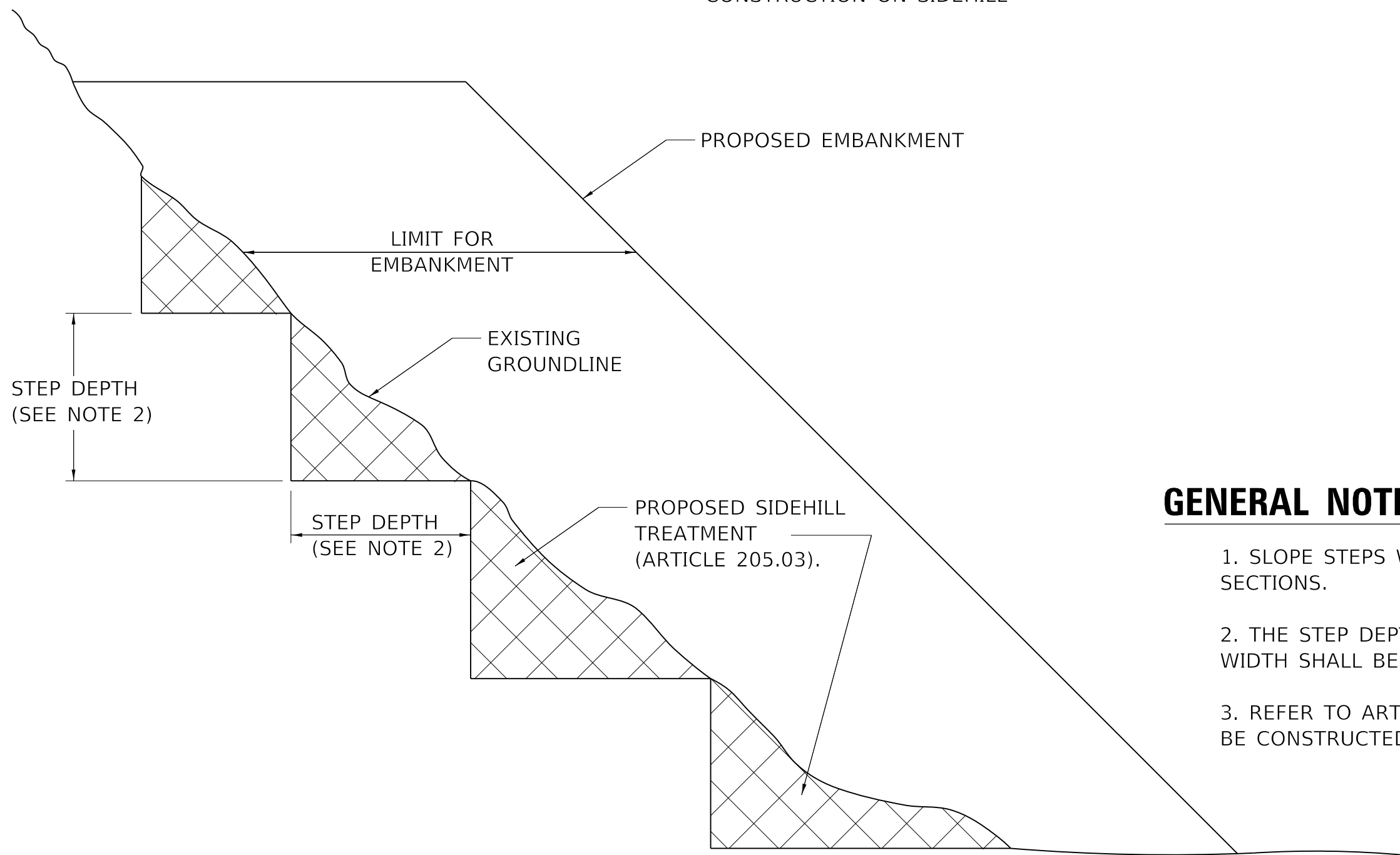
MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	13
CONTRACT NO.		



SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. SLOPE STEPS WILL BE REQUIRED IN ALL FILL SECTIONS.
2. THE STEP DEPTH SHALL BE 4' AND THE STEP WIDTH SHALL BE TWICE THE STEP DEPTH.
3. REFER TO ARTICLE 205.03 FOR EMBANKMENT TO BE CONSTRUCTED ON HILLSIDE OF SLOPES.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

MODEL: D:\dgn\11\2023\20231109\4_CADD - DWG\4.7_Tran\CADD_Sheet\231109-ph-dtl_dbrsteps.dgn



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USER NAME = jstein	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 11/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**MISCELLANEOUS DETAILS
SLOPE STEPS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

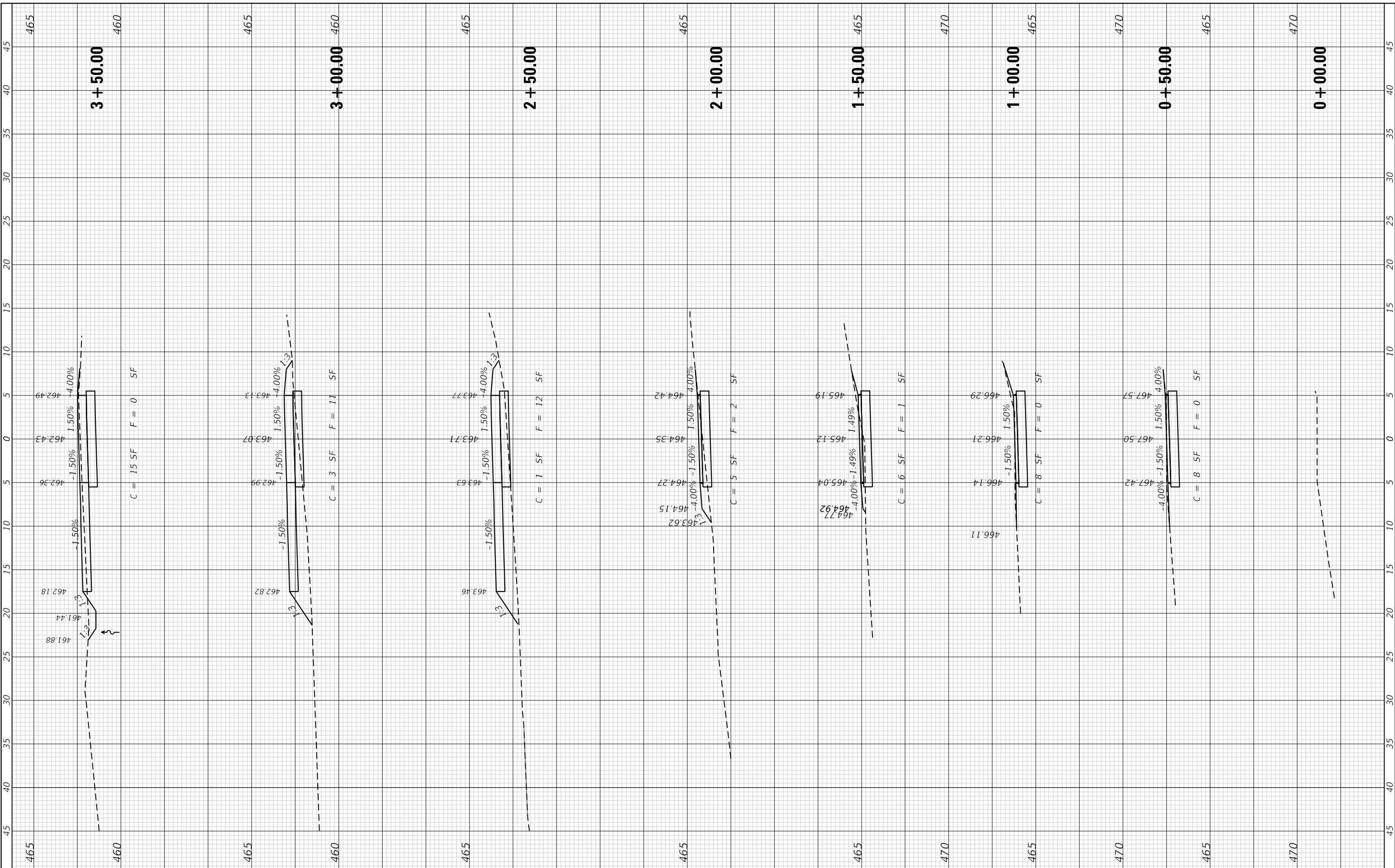
**MBL
REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	14
CONTRACT NO.		

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

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

MODEL: Defn01r
 FILE NAME: P:\2023\231109a_CADD - DWG\4-1 Trans\CADD_Sheets\231109a-rc-sec.dwg



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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

SCALE: 1"=5'	SHEET	OF	SHEETS	STA. +00.00	TO STA. 3+50.00
--------------	-------	----	--------	-------------	-----------------

CROSS SECTIONS

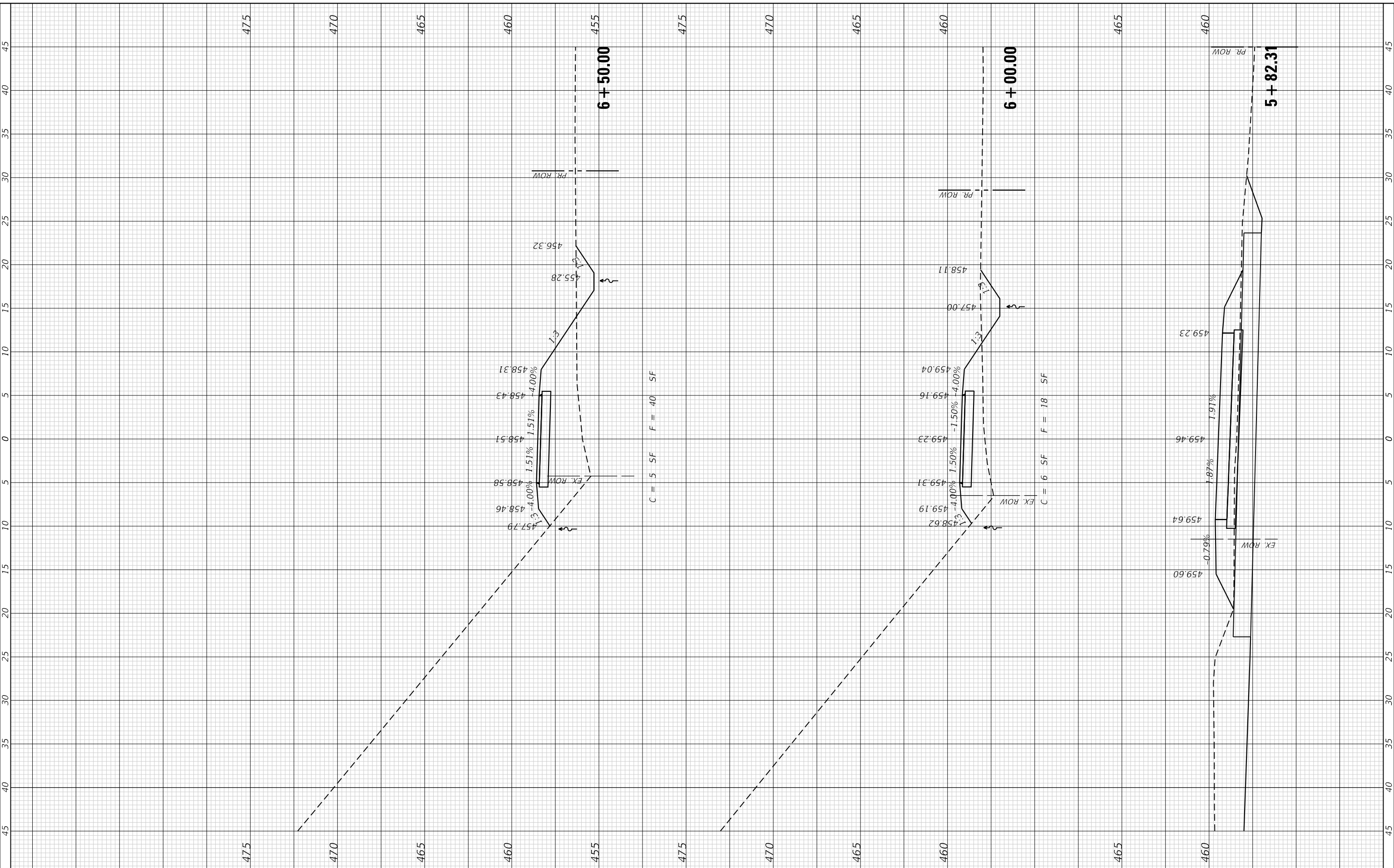
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	15
CONTRACT NO.		

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

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

MODEL: Defnair
 FILE NAME: P:\2023\231109a_CADD - DWG\4-1_Tran-CADD_Sheets\231109a-rc-sec.dwg



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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME	= jstein
PLOT SCALE	= 10.0000" / in.
PLOT DATE	= 11/5/2024

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF	SHEETS
STA. 5+82.31		TO STA. 6+50.00	

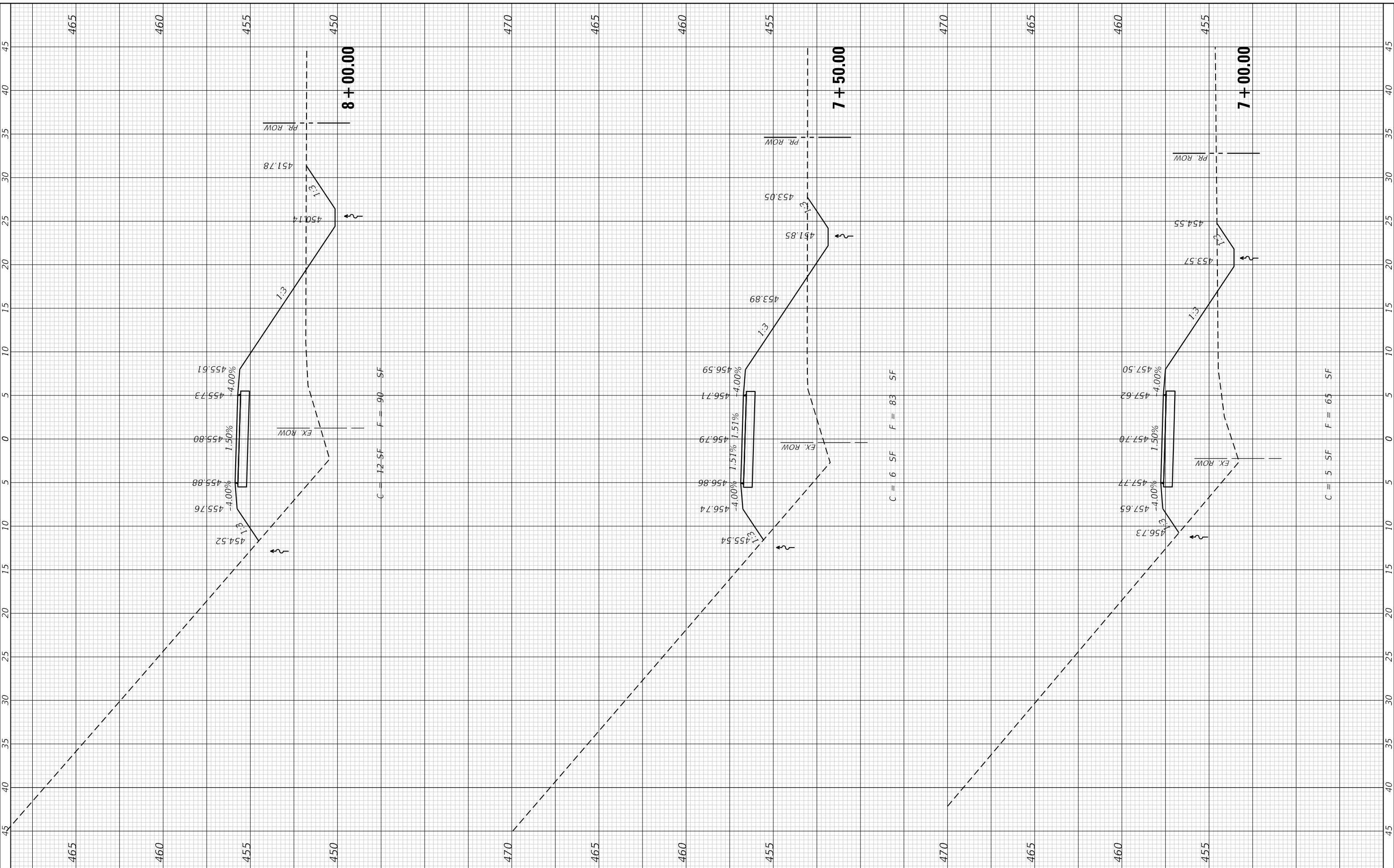
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	17
CONTRACT NO.		

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	

MODEL: Defnair
 FILE NAME: P:\2023\2311094_CADD - DWG\4-3_Tran-CADD_Sheets\2311094-rc-sec.dgn



C = 12 SF F = 90 SF

C = 6 SF F = 83 SF

C = 5 SF F = 65 SF

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 LICENSE NO:
 184-001220

USER NAME	= jstein
PLOT SCALE	= 10.0000 ' / in.
PLOT DATE	= 11/5/2024

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS

SCALE: 1"=5' SHEET OF SHEETS STA. 7+00.00 TO STA. 8+00.00

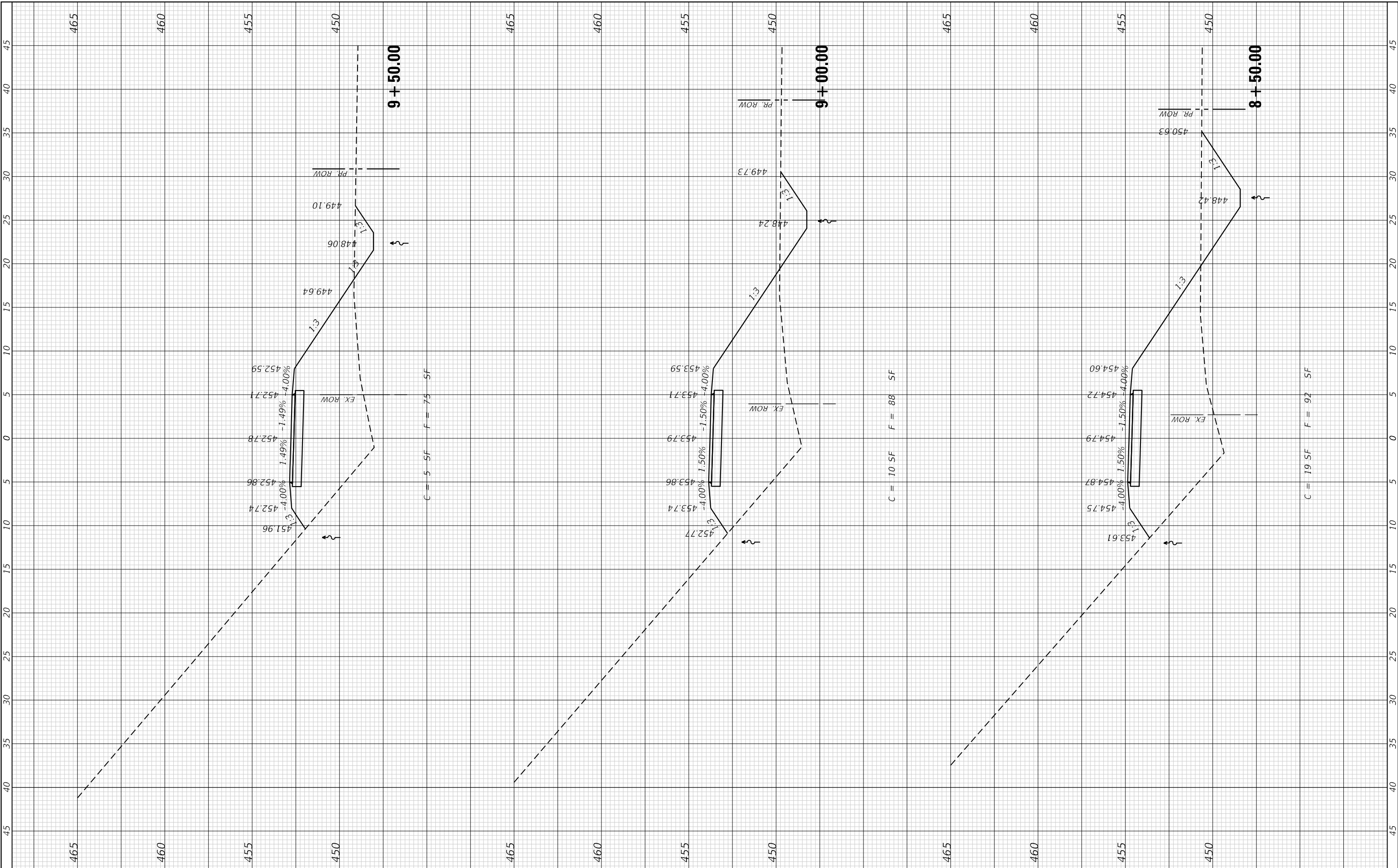
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	18
CONTRACT NO.		

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

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

MODEL: Defleur
 FILE NAME: P:\2023\231109a_CADD - DWG\4-1 Trans\CADD_Sheets\231109a-rc-sec.dwg



TWM
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 GEOSPATIAL SERVICES

TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF	SHEETS
STA. 8+50.00			TO STA. 9+50.00

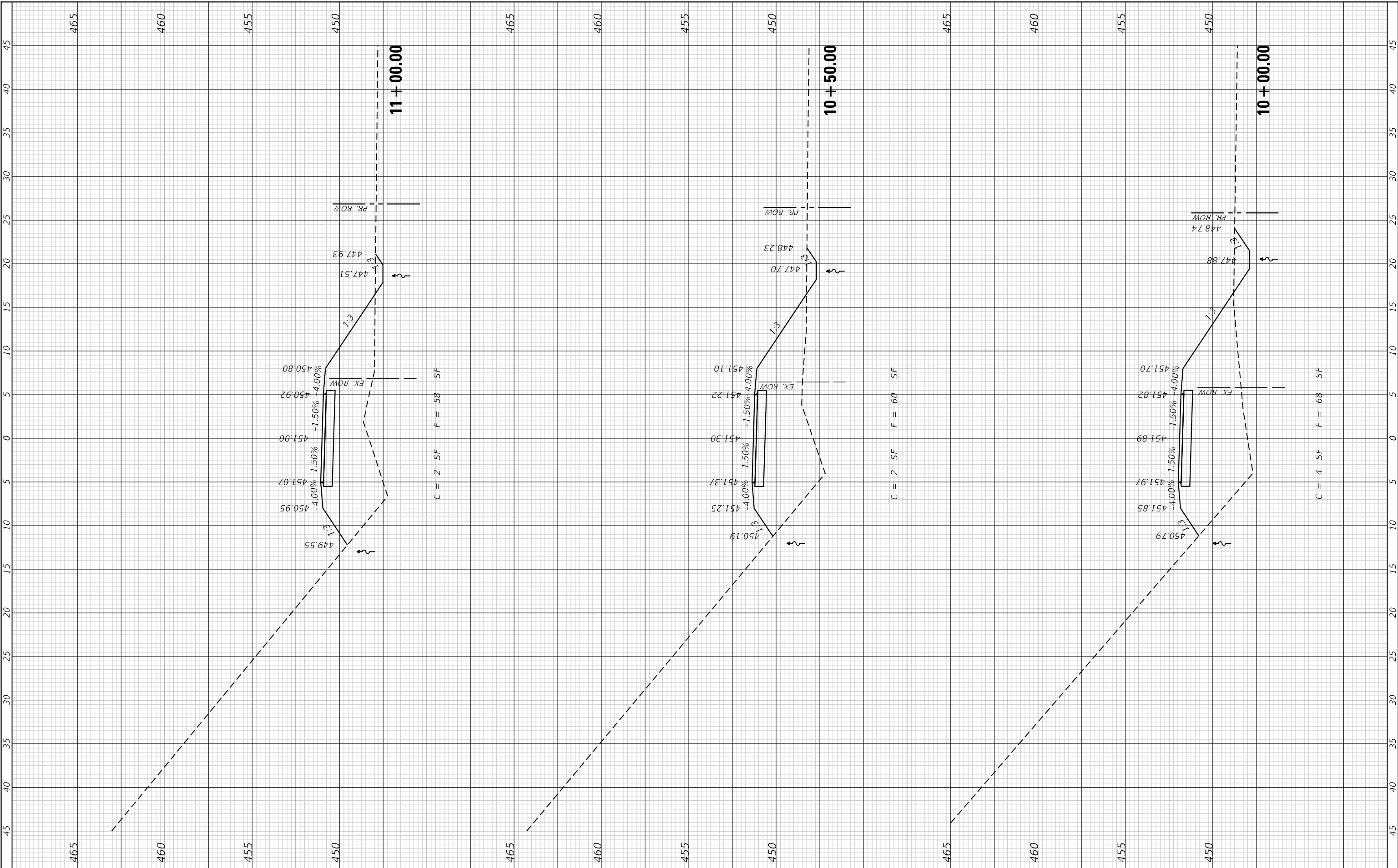
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	19
CONTRACT NO.		

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

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

MODEL: Defnair
 FILE NAME: P:\2023\231109a_CADD - DWG\4-3_Tran-CADD_Sheets\231109a-rc-sec.dgn



TWM
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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF	SHEETS
STA. 10+00.00		TO STA. 11+00.00	

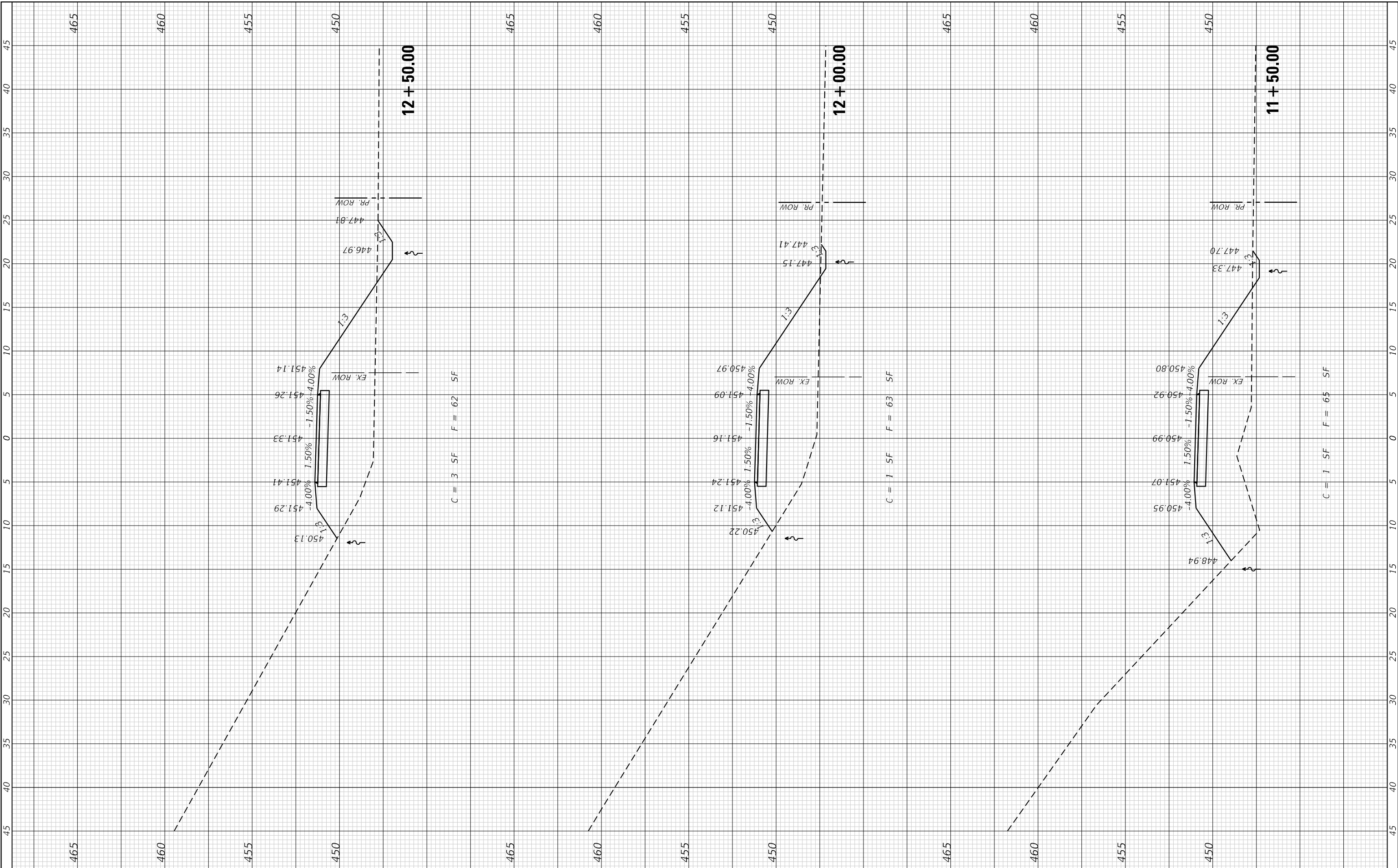
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	20
CONTRACT NO.		

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	

MODEL: Defnair
 FILE NAME: P:\2023\231109a_CADD - DWG\4-3 Tran-CADD_Sheets\231109a-rc-sec.dwg



TWM
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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

SCALE: 1"=5'	
SHEET	OF SHEETS
CROSS SECTIONS	
STA. 11+50.00 TO STA. 12+50.00	

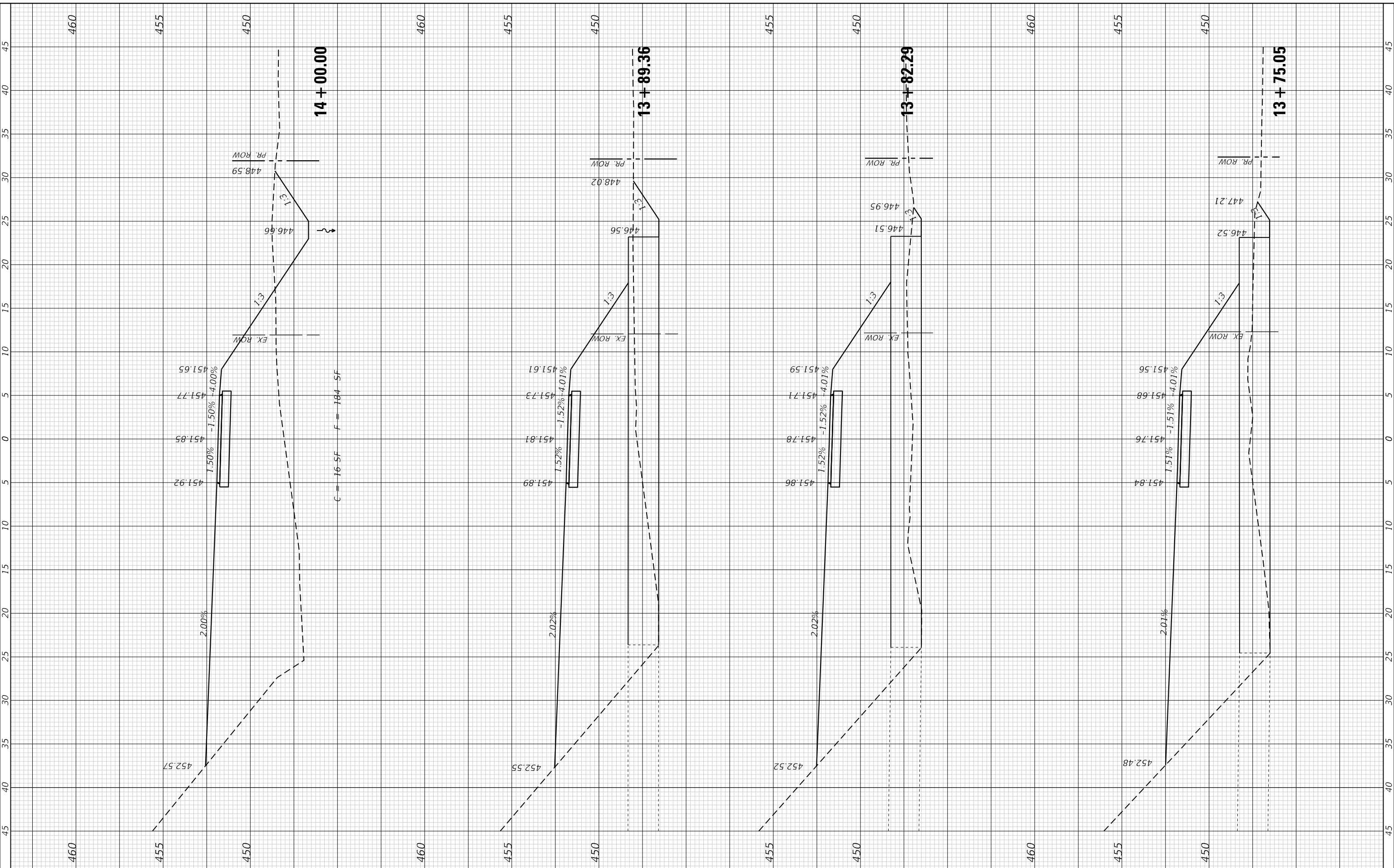
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	21
CONTRACT NO.		

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

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

MODEL: Defleur
 FILE NAME: P:\2023\2311094_CADD - DWG\4.1 Tran\CADD_Sheets\2311094-rcs.cad



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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF SHEETS	STA. 13+75.05 TO STA. 14+00.00

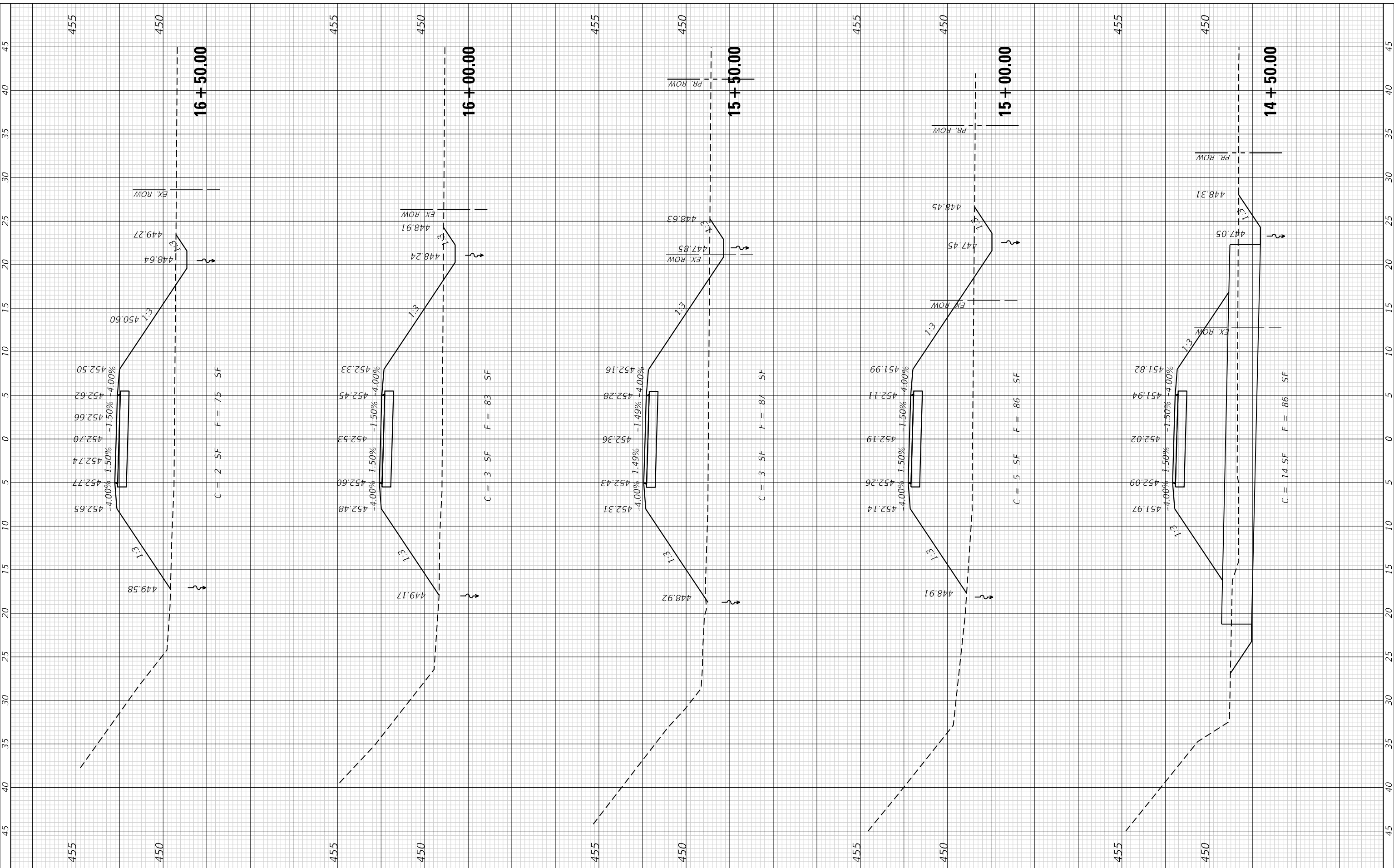
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	23
CONTRACT NO.		

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: Defleur
 FILE NAME: P:\2023\231109a CAD - DWG\4-7 Tran-CADD Sheets\231109a-rcs.dwg



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 LICENSE NO:
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USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF	SHEETS
STA. 14+50.00	TO	STA. 16+50.00	

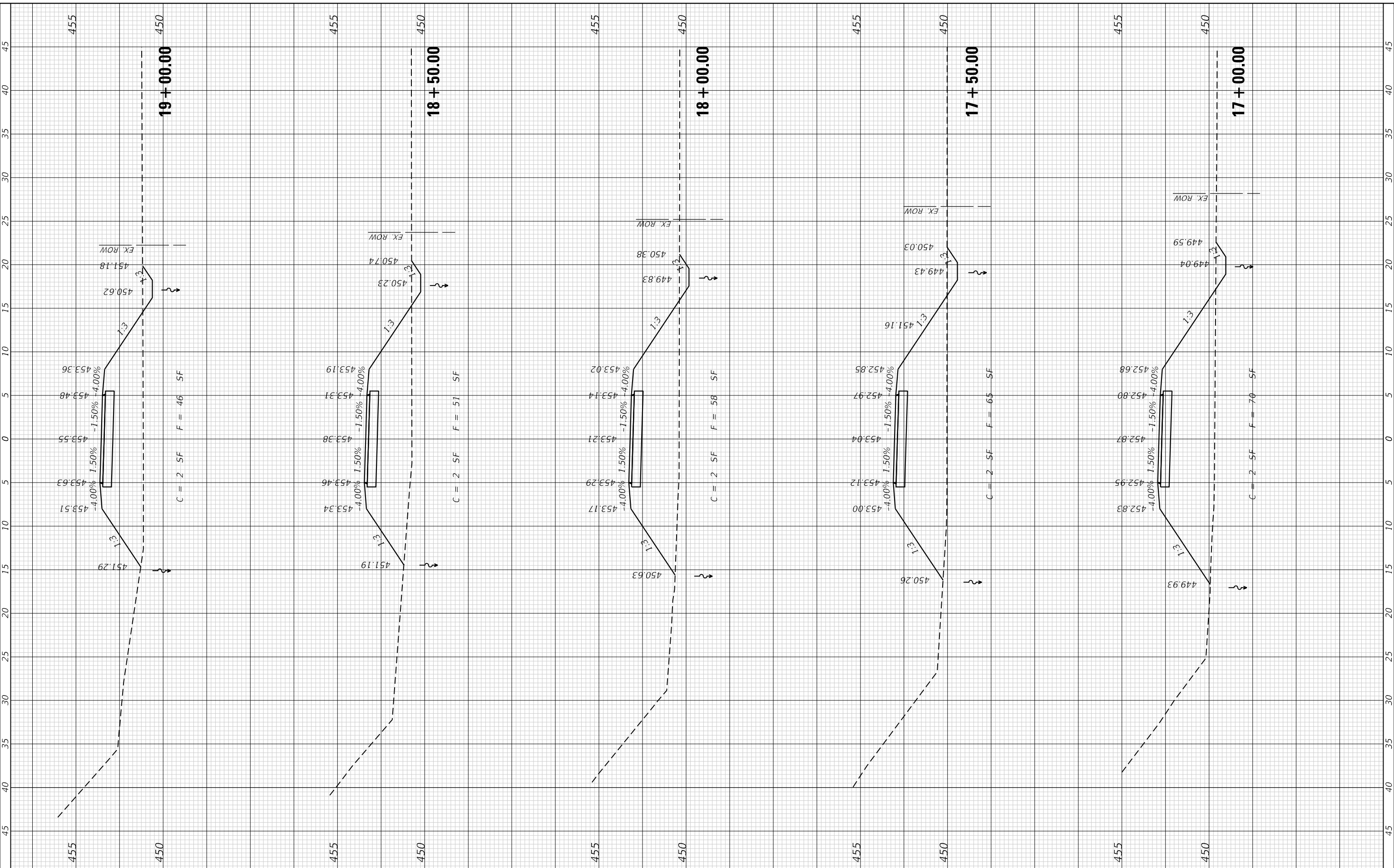
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	24
CONTRACT NO.		

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	

MODEL: Defleur
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 TWM, INC.
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 184-001220

USER NAME = jstein
 PLOT SCALE = 10.0000' / in.
 DATE = 11/5/2024

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET OF SHEETS
 STA. 17+00.00 TO STA. 19+00.00

MBL REALIGNMENT

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	25
CONTRACT NO.		

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

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

MODEL: Defnair
 FILE NAME: P:\2023\231109a_CADD - DWG\4-1_Tran\CADD_Sheets\231109a-rc-sec.dwg

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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



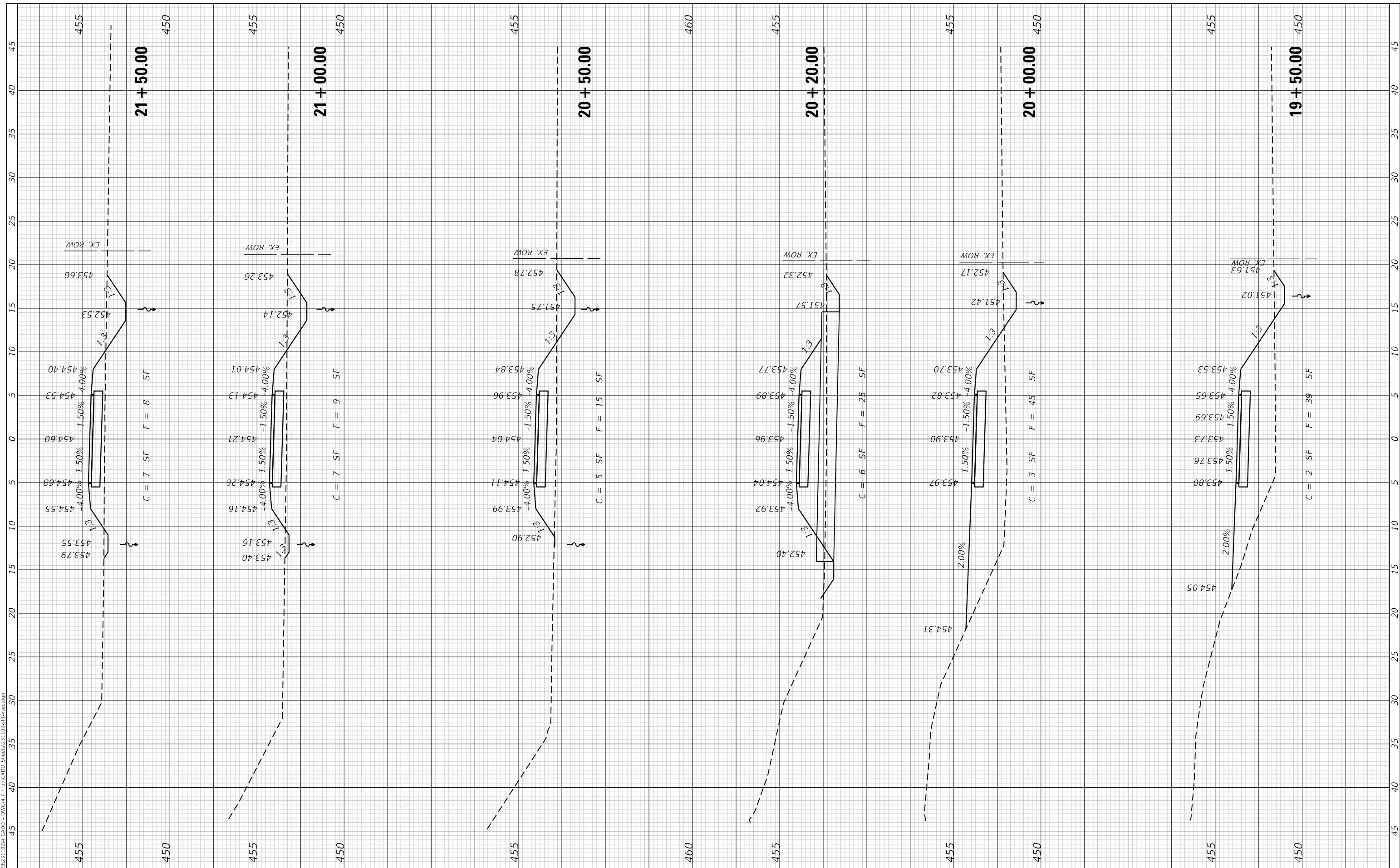
**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS

SCALE: 1"=5' SHEET OF SHEETS STA. 19+50.00 TO STA. 21+50.00

**MBL
 REALIGNMENT**

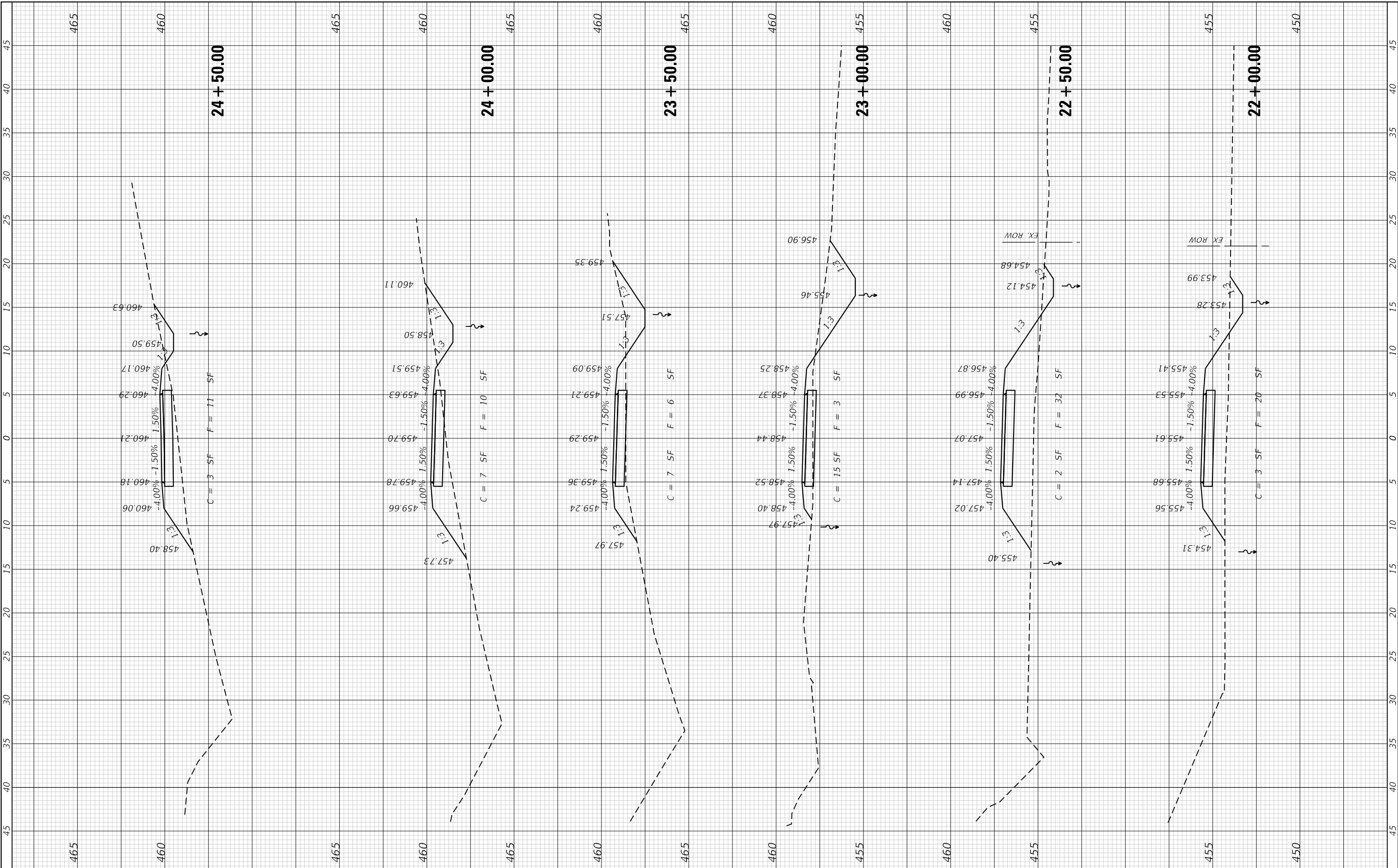
COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	26
CONTRACT NO.		



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

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

MODEL: Defnair
 FILE NAME: P:\2023\231109a_CADD - DWG\4-3 Tran-CADD_Sheets\231109a-rcs.cad



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = jstein
PLOT SCALE = 10.0000' / in.
PLOT DATE = 11/5/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -



**ST. CLAIR COUNTY
 TRANSIT DISTRICT**

CROSS SECTIONS			
SCALE: 1"=5'	SHEET	OF	SHEETS
STA. 22+00.00			TO STA. 24+50.00

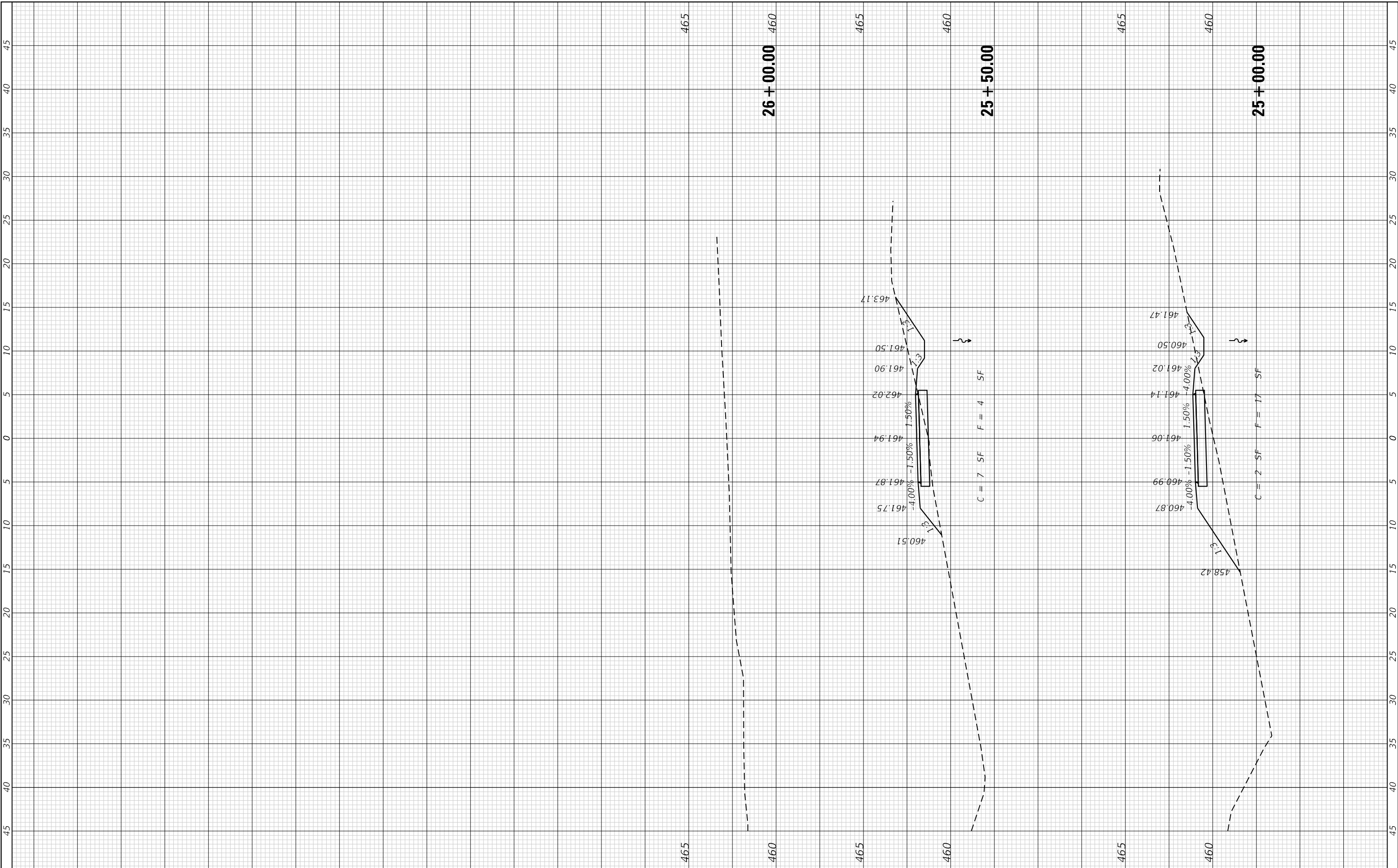
**MBL
 REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	27
CONTRACT NO.		

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

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

MODEL: Defnair
FILE NAME: P:\2023\231109a_CADD - DWG\4-17 Tran\CADD_Sheets\231109a-rc-sec.dwg



TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
WWW.TWM-INC.COM
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = jstein	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 11/5/2024	CHECKED -	REVISED -
	DATE -	REVISED -



**ST. CLAIR COUNTY
TRANSIT DISTRICT**

CROSS SECTIONS	
SCALE: 1"=5'	SHEET OF SHEETS
STA. 25+00.00	TO STA. 26+00.00

**MBL
REALIGNMENT**

COUNTY	TOTAL SHEETS	SHEET NO.
ST. CLAIR	28	28
CONTRACT NO.		