

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

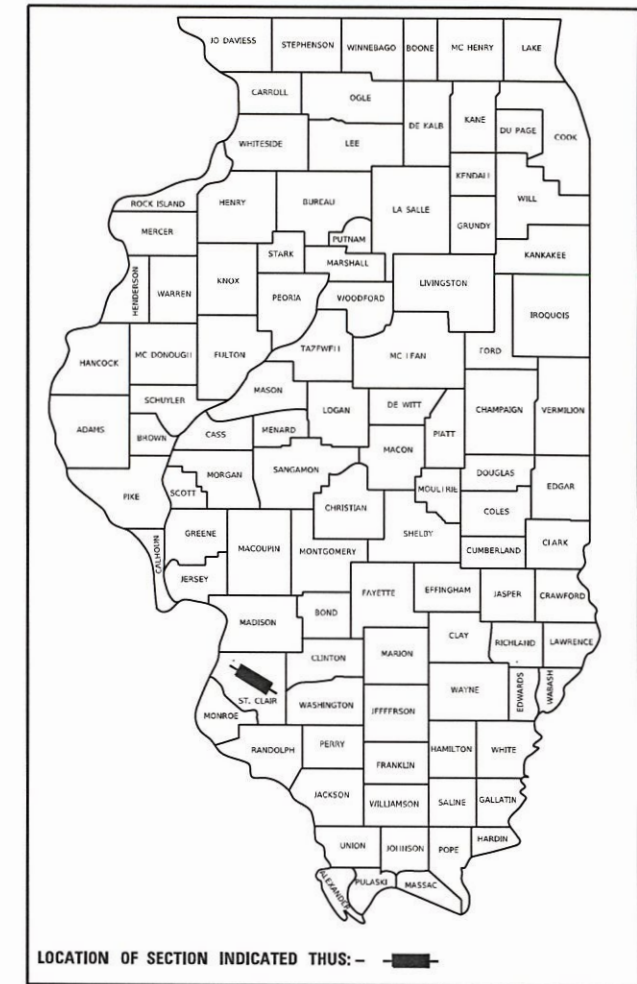
# PROPOSED HIGHWAY PLANS

TAP FUNDS  
FAU ROUTE 9293 (BOUL AVENUE)  
SECTION 21-00038-01-BT  
PROJECT NO. 1NK6(170)  
VILLAGE OF SWANSEA  
ST. CLAIR COUNTY  
C-98-034-23

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	1
		ILLINOIS	CONTRACT NO. 97817	

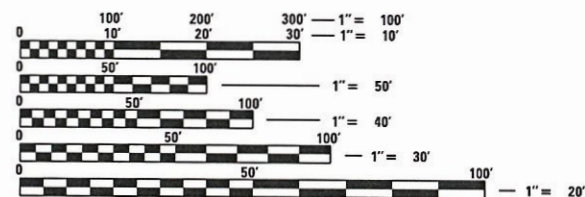
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**DESIGN DESIGNATION**

ROADWAY CLASSIFICATION: MAJOR COLLECTOR (BOUL AVENUE)  
OTHER PRINCIPAL ARTERIAL (IL 159)  
DESIGN SPEED: 40 MPH (IL 159)/40 MPH (BOUL AVENUE)  
CURRENT ADT (2023): 14400 VPD (IL 159)/4700 VPD (BOUL AVENUE)  
DESIGN YEAR ADT (2043): 17746 VPD (IL 159)/5790 VPD (BOUL AVENUE)

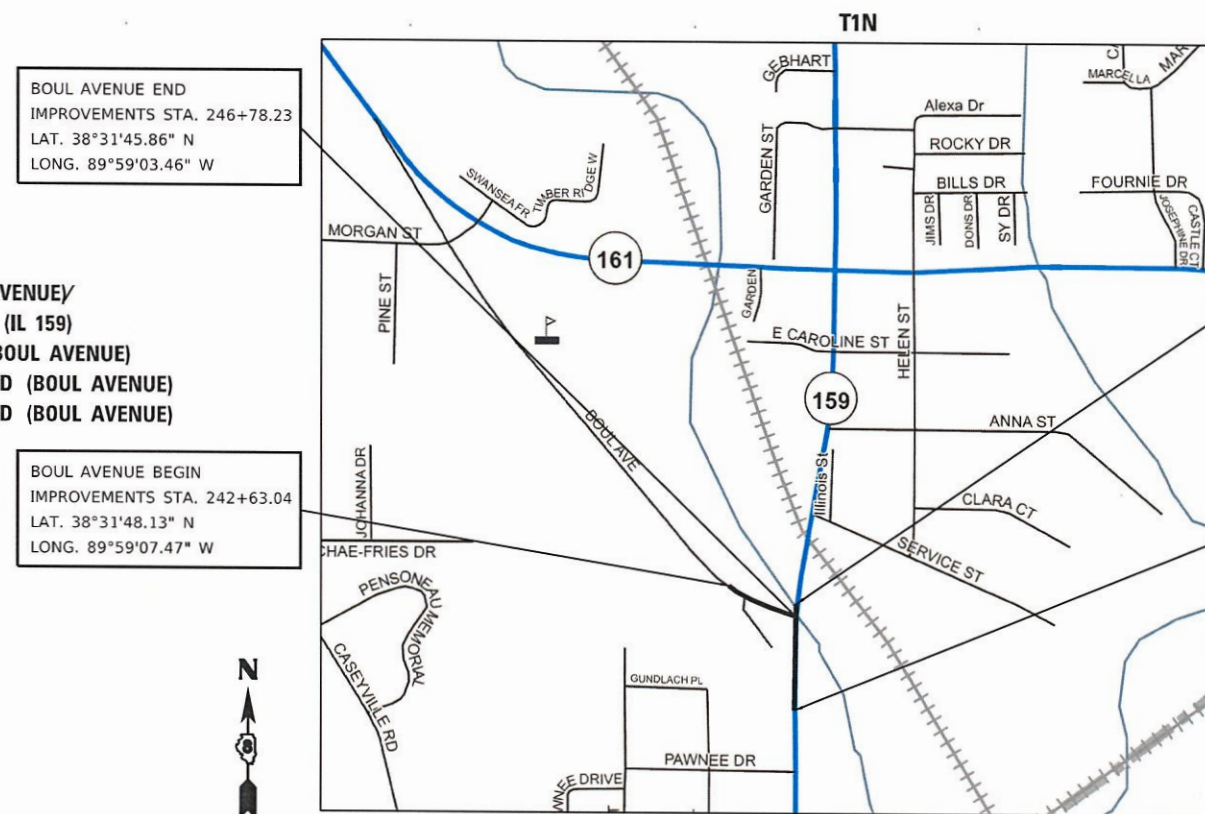


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**PLANS PREPARED BY:**

4940 Old Collinsville Road Illinois Professional  
Swansea, Illinois 62226 Design Firm  
Tel: 618.624.4488 No. 184-001220  
www.twm-inc.com License Expires: 04/30/2025  
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BOUL AVENUE END  
IMPROVEMENTS STA. 246+78.23  
LAT. 38°31'45.86" N  
LONG. 89°59'03.46" W

BOUL AVENUE BEGIN  
IMPROVEMENTS STA. 242+63.04  
LAT. 38°31'48.13" N  
LONG. 89°59'07.47" W

IL ROUTE 159 BEGIN  
IMPROVEMENTS STA. 129+23.14  
LAT. 38°31'46.66" N  
LONG. 89°59'03.01" W

IL ROUTE 159 END  
IMPROVEMENTS STA. 133+97.29  
LAT. 38°31'41.98" N  
LONG. 89°59'03.70" W

GROSS/NET LENGTH:  
BOUL AVENUE = 415.19 FT. = 0.079 MILE (TOTAL)  
IL ROUTE 159 = 474.15 FT. = 0.090 MILE (TOTAL)

NOT TO SCALE



07-19-2023  
*Joshua W. Stein*  
JOSHUA W. STEIN, P.E. EXPIRATION DATE  
LICENSE NO. 062-062775 11-30-2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>[Signature]</i> July 20 20 23 MAYOR VILLAGE OF SWANSEA
PASSED	8/14 20 23 <i>[Signature]</i> DISTRICT 8 ENGINEER LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	8/14 20 23 <i>[Signature]</i> REGION FIVE ENGINEER

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## GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF SWANSEA AND IDOT AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
2. ALL CONSTRUCTION SIGNS SHALL BE 48" FLUORESCENT ORANGE.
3. PRIOR TO CONSTRUCTING ANY ENTRANCE, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER IN WRITING, INFORMING THEM OF CONSTRUCTION AND ESTIMATED DATES CONSTRUCTION WILL TAKE PLACE.
4. ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURE.
5. ANY EXCAVATION ADJACENT TO EDGE OF PAVEMENTS SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGH OUT THE CONSTRUCTION PROJECT. THE EMBANKMENT SURFACES SHALL BE SLOPED TO DRAIN OFF THE EMBANKMENT TO SIDE SLOPES. DITCHES ALONG THE SIDES OF THE EMBANKMENT SHALL BE GRADED TO DRAIN THROUGH THE EMBANKMENT UNTIL SUCH TIME THAT PIPE CULVERTS ARE INSTALLED AND FUNCTIONAL. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN EARTH EXCAVATION AND/OR FURNISHED EXCAVATION.
7. EXISTING DITCHES/SWALES WILL NEED TO BE REGRADED/SHAPED TO ENSURE ALL FLOWS ENTER THE PROPER DITCH, CROSSROAD CULVERT, POND OR OTHER DRAINAGE APPURTENANCES, UNLESS OTHERWISE INDICATED. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTHWORK, UNLESS NOTED OTHERWISE.
8. ANY FOUND ROOF DRAINS, SUMP PUMP LINES OR OTHER DRAINS WITHIN PROJECT LIMITS OR AS DIRECTED BY THE ENGINEER SHALL BE A "DAYLIGHT" DRAINED CONDITION INTO THE NEAREST PROPOSED SWALE, DITCH, STREET GUTTER OR DRAINAGE STRUCTURE. COST SHALL BE INCLUDED IN THE COST OF INLETS/MANHOLES.
9. ALL DRAINAGE STRUCTURES THAT ARE CONSTRUCTED, RECONSTRUCTED OR ADJUSTED SHALL BE CLEANED OF ANY ACCUMULATED SILT OR DEBRIS. THIS WORK WILL BE INCLUDED IN THE THE COST OF VARIOUS DRAINAGE STRUCTURE PAY ITEMS.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE PROPOSED SIDEWALK AND ADJOINING RAMPS IN ACCORDANCE WITH APPLICABLE ADA STANDARDS.
12. ALL DETECTABLE WARNING PANELS SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS.
13. IN LOCATIONS WHERE EXISTING CURB AND GUTTER MEETS EITHER THE SAME TYPE OF PROPOSED CURB AND GUTTER OR ANOTHER TYPE OF PROPOSED CURB AND GUTTER, A TRANSITION LENGTH OF 2' SHALL BE USED TO PROVIDE A SMOOTH TRANSITION BETWEEN. ALL WORK SHALL BE PAID FOR PER SECTION 606.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
14. EXISTING UNDERGROUND AND ABOVE-GRADE UTILITY STRUCTURES AND FACILITIES HAVE BEEN PLOTTED ON THESE PLANS BASED ON TOPOGRAPHIC SURVEYS CONDUCTED DURING DESIGN. THE LOCATIONS OF THESE FEATURES MUST BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES WHICH DID NOT EXIST OR WERE NOT KNOWN DURING PREPARATION OF THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL EXISTING FACILITIES LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION ACTIVITIES AND TO PROTECT ALL SUCH FACILITIES THROUGHOUT CONSTRUCTION.

## GENERAL NOTES

16. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL, REFER TO THE SPECIAL PROVISIONS "STATUS OF UTILITIES TO BE ADJUSTED" FOR ADDITIONAL INFORMATION:
  - AMEREN IP
  - AT&T
  - CHARTER COMMUNICATIONS
  - ILLINOIS AMERICAN WATER CO.
  - CLEARWAVE COMMUNICATIONS
  - WINDSTREAM
  - VILLAGE OF SWANSEA
  - IDOT FACILITIES
17. OFFSET - = LT  
OFFSET + = RT
18. ALL EXISTING SIGNAGE THAT IS TO BE REMOVED SHALL BE GIVEN TO THE VILLAGE OF SWANSEA UNLESS THE SIGNS ARE TO BE REINSTALLED AS PART OF THE PROJECT.
19. IDOT UTILITY NOTE:  
THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE ITS OWN FACILITIES (SUCH AS UNDERGROUND CONDUIT AND/OR CABLE FOR TRAFFIC SIGNALS OR HIGHWAY LIGHTING). THE APPLICANT, AT HIS/HER OWN EXPENSE, MUST OBTAIN THE SERVICES OF A QUALIFIED ELECTRICAL CONTRACTOR TO LOCATE SUCH STATE-OWNED FACILITIES.
20. ALL CLASS A STORM SEWER SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.

## COMMITMENTS

NONE

## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMALS OF AN INCH AND FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMP
424006-05	DIAGONAL CURB RAMP
424016-05	MID BLOCK CURB RAMP
602301-04	INLETS TYPE A
604001-05	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
604091-05	FRAME AND GRATE TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTI-LANE, LESS THAN 15' TO EOP
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION, DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, WITH NON TRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	URBAN LANE CLOSURE, SIDEWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORTS
780001-05	TYPICAL PAVEMENT MARKINGS
782001-01	CURB REFLECTORS
814001-03	HANDHOLES
838001-01	BREAKAWAY DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCE
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

## APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION WERE UTILIZED TO CALCULATE CONTRACT QUANTITIES:

AGGREGATES (SURFACE, BASE, BACKFILL)	2.10 TON/CY
BITUMINOUS MATERIALS - TACK COAT (EX. HMA, MILLED SURFACE, CONCRETE, MILLED/TINED CONCRETE)	0.05 LB/SF
BITUMINOUS MATERIALS - TACK COAT (BETWEEN HMA LIFTS, IL 4.75, BRICK)	0.025 LB/SF
BITUMINOUS MATERIAL - PRIME COAT (AGGREGATE BASES)	0.25 LB/SF
HOT-MIX ASPHALT SURFACE/BINDER/BASE	0.056 TON/SY PER INCH
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
AGRICULTURE GROUND LIMESTONE	2 TON/ACRE
MULCH	2 TON/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE

## HMA MIXTURE REQUIREMENTS

LOCATIONS:	FAP 600 AND FAU 9293		
MIXTURE USE(S):	SURFACE (1 3/4")	BINDER (2")	INCIDENTAL (3")
PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION:	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIXTURE "D"	MIXTURE "C"	MIXTURE "C"
MIXTURE WEIGHT:	115 LB/SQ YD/IN	115 LB/SQ YD/IN	115 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO

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	DATE -	REVISED -



VILLAGE OF SWANSEA

GENERAL NOTES, HIGHWAY STANDARDS, AND COMMITMENTS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	2
			CONTRACT NO. 97817	
		ILLINOIS	FED. AID PROJECT	

\* SPECIALTY ITEMS

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	250
20400800	FURNISHED EXCAVATION	CU YD	170
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	20
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	20
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000400	PERIMETER EROSION BARRIER	FOOT	650
28000500	INLET AND PIPE PROTECTION	EACH	9
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	303
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	379
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	253
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	170
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	42

\* SPECIALTY ITEMS

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	37
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	19
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	106
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	3932
42400800	DETECTABLE WARNINGS	SQ FT	118
44000100	PAVEMENT REMOVAL	SQ YD	31
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	234
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	232
44000600	SIDEWALK REMOVAL	SQ FT	222
* 50901760	PIPE HANDRAIL	FOOT	31
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	26
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
60236900	INLETS, TYPE A, TYPE 12 FRAME AND GRATE	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	2
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2

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**VILLAGE OF SWANSEA**

**SUMMARY OF QUANTITIES**  
SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	3
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	

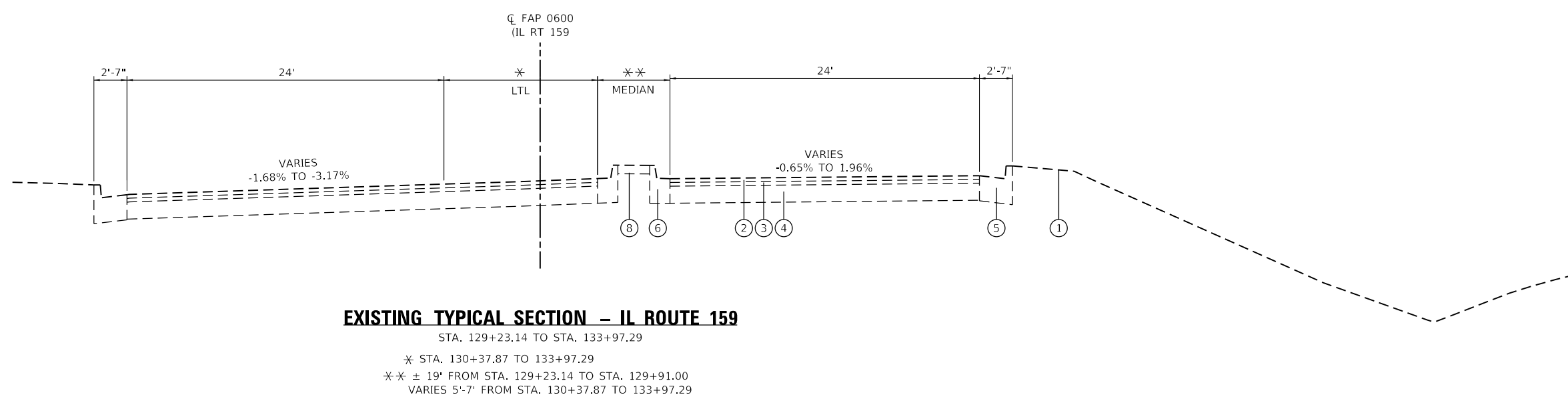
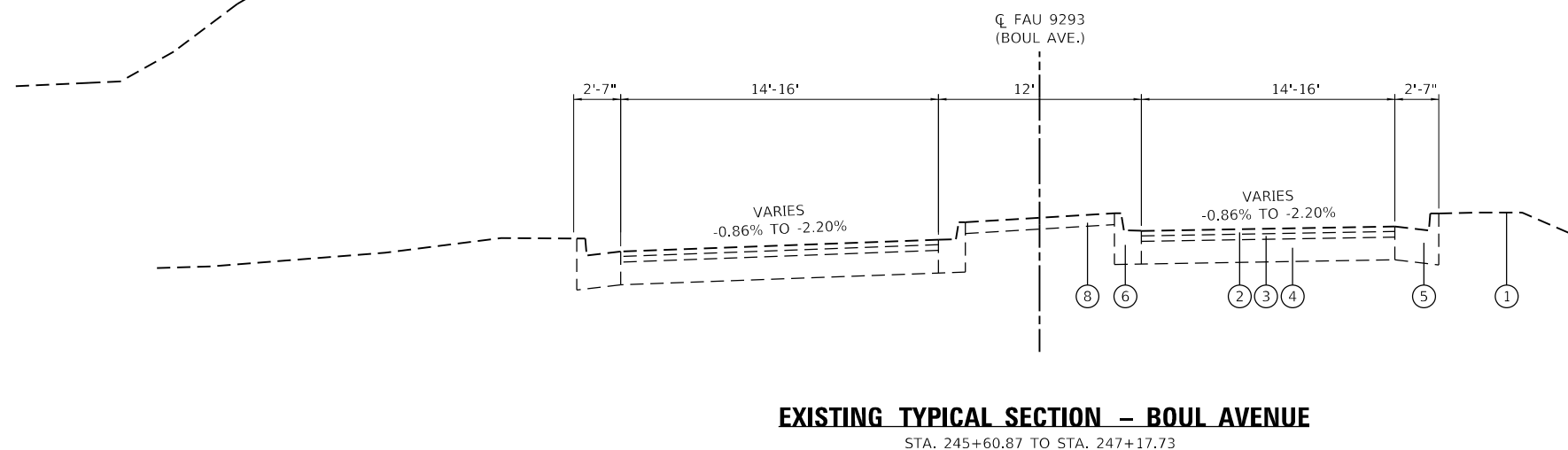
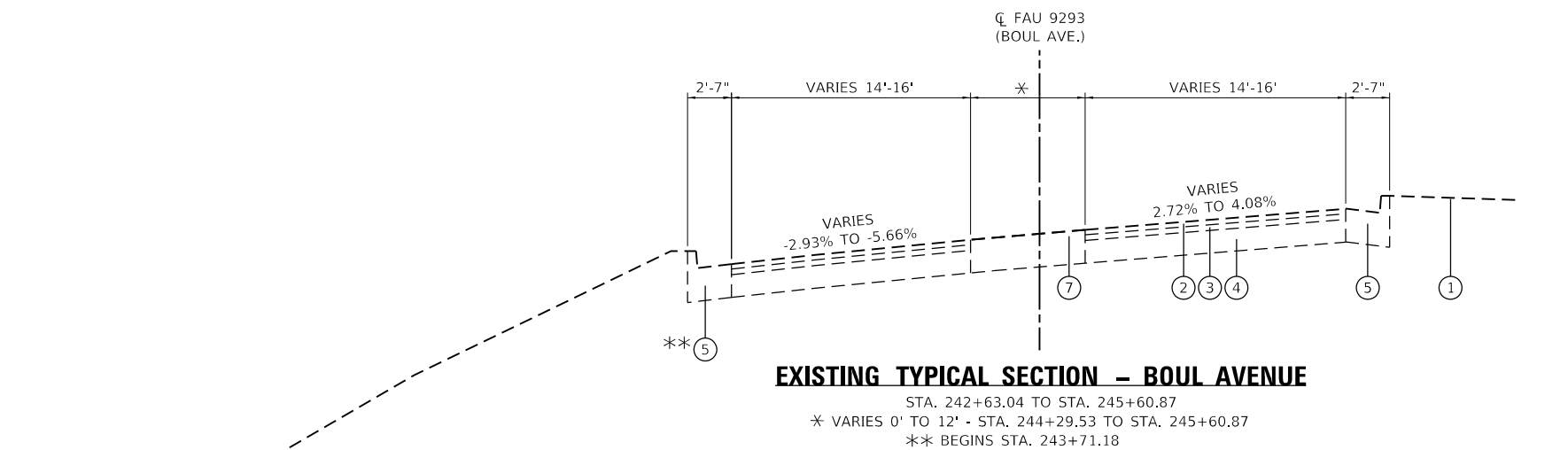






**LEGEND**

- ① EX. GROUND
- ② EX. HMA SURFACE, 1 3/4"
- ③ EX. HMA BINDER, 2"
- ④ EX. PCC BASE, 8"
- ⑤ EX. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑥ EX. CONC. CURB AND GUTTER, TYPE M-6.12
- ⑦ EX. CONC. MEDIAN (SOLID)
- ⑧ EX. CONC. MEDIAN SURFACE, 4"
- ⑨ PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑩ PR. HMA BINDER COURSE, IL-19.0, N70, 2"
- ⑪ PR. PCC BASE COURSE 8"
- ⑫ PR. SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑬ PR. PCC SIDEWALK, 4"
- ⑭ RESERVED
- ⑮ PR. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑯ PR. CONC. MEDIAN, TYPE SM-6.12
- ⑰ PR. CURB PAINT
- ⑱ PR. CURB REFLECTORS
- ⑲ PR. EMBANKMENT
- ⑳ PR. DRILL AND GROUT #6 TIE BARS (36" CTS.)



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**VILLAGE OF SWANSEA**

**EXISTING TYPICAL SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	7
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				





EARTHWORK SCHEDULE									
LOCATION				EARTH EXCAVATION	NON-SPECIAL WASTE DISPOSAL	FOR INFORMATION ONLY			FURNISHED EXCAVATION
						EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	
LOCATION	STA.	TO	STA.	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
BOUL AVE	242+63.04	TO	246+78.29	115	31	86	202	-116	116
IL 159	129+23.14	TO	133+97.29	136		102	155	-53	53
TOTAL:				251	31	188	357	-169	169
PAY TOTAL:				250	31				170

REMOVAL SCHEDULE								
LOCATION				PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	COMBINATION CURB & GUTTER REMOVAL	SIDEWALK REMOVAL	MEDIAN REMOVAL (SPECIAL)
STA.	TO	STA.	LT/RT	SQ YD	SQ YD	FOOT	SQ FT	SQ FT
<b>BOUL AVE.</b>								
246+52.80	TO	246+52.80	LT	17.8				
243+38.54			LT		112.5			
245+60.88	TO	246+48.18	LT			122.0		
246+62.06	TO	246+75.95	RT			17.0		
244+29.67	TO	246+78.42	MED					2,189.0
<b>IL 159</b>								
129+66.09	TO	129+91.15	MEDIAN	13.4				
133+10.20			RT		121.9			
129+56.44	TO	129+92.90	LT			36.0	222.0	
132+75.25	TO		RT			37.0		
133+27.81	TO		RT			20.0		
129+23.20	TO	129+91.07	MED					1,162.0
129+65.41	TO	129+85.56	RT					123.0
130+23.50	TO	130+54.27	RT					298.0
TOTAL:				31	234	232	222	3,772

MEDIAN SCHEDULE						
LOCATION				SUBBASE GRANULAR MATERIAL, TYPE A *	CONCRETE MEDIAN, TYPE SM-6.12	CONCRETE MEDIAN, TYPE SM-6.24
STA.	TO	STA.	LT/RT	TON	SQ FT	SQ FT
<b>IL RT 159</b>						
129+23.14	TO	129+65.89	MED	18.0	694.0	
129+65.41	TO	129+87.06	RT	4.9		187.0
TOTAL:				23	694	187

SEEDING SCHEDULE									
LOCATION				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
STA.	TO	STA.	ROUTE	ACRE	POUND	POUND	POUND	ACRE	POUND
<b>BOUL AVE.</b>									
242+63.04	TO	246+78.23	BOUL AVE.	0.125	11.3	11.3	11.3	0.125	25
129+23.23	TO	133+96.06	IL 159	0.143	12.9	12.9	12.9	0.143	28.6
SUB-TOTAL:				0.268	24.1	24.1	24.1	0.268	53.6
PAY TOTAL:				0.25	20	20	20	0.25	50

\*SEE SIDEWALK, CURB AND GUTTER AND PAVING SCHEDULES FOR ADDITIONAL QUANTITIES

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VILLAGE OF SWANSEA

**SCHEDULE OF QUANTITIES**  
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	9
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



CURB AND GUTTER SCHEDULE							
LOCATION				SUBBASE GRANULAR MATERIAL, TYPE A *	COMBINATION CONCRETE CURB & GUTTER		
					TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	TYPE B-6.24	
STA.	TO	STA.	LT/RT	TON	FOOT	FOOT	
<b>BOUL AVE.</b>							
245+60.87	TO	245+84.98	LT	10.1	24.0		
245+84.98	TO	246+48.58	LT				75.0
246+48.58	TO	246+50.36	LT			21.0	
246+62.99	TO	246+77.05	RT	1.3	17.0		
<b>IL 159</b>							
129+56.44	TO	129+92.90	LT	2.5	36.0		
132+75.24	TO	132+85.46	RT	3.4	12.5	32.0	
133+25.34	TO	133+39.80	RT	2.8	7.2	28.0	
TOTAL:				20	118	135	

\*SEE SIDEWALK, MEDIAN AND PAVING SCHEDULES FOR ADDITIONAL QUANTITIES

SIDEWALK SCHEDULE								
LOCATION				SUBBASE GRANULAR MATERIAL, TYPE A *	PCC SIDEWALK, 4 INCH	PCC SIDEWALK, 4 INCH (SPECIAL)	DETECTABLE WARNINGS	PIPE HANDRAIL
<b>BOUL AVE.</b>								
242+63.04	TO	243+25.00	LT	9.1	352.4		12.0	
243+55.92	TO	246+38.90	LT	43.8	1,687.5		18.0	
246+31.95	TO	246+40.17	LT RAMP	1.4	55.0		10.0	
<b>IL 159</b>								
129+56.20	TO	129+93.03	LT	5.9		258.0	10.0	30.6
129+68.81	TO	129+82.51	ISLAND	2.5	96.0		36.0	
130+44.36	TO	132+92.86	RT	34.4	1,326.1		22.0	
131+89.49	TO	131+97.49	BUS STOP	1.7	64.0			
133+27.31	TO	133+96.02	RT	9.1	351.0		10.0	
TOTAL:				108	3,932	258	118	31

\*SEE PAVING, MEDIAN AND CURB AND GUTTER SCHEDULES FOR ADDITIONAL QUANTITIES

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**VILLAGE OF SWANSEA**

**SCHEDULE OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	11
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE													
LOCATION						THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKING REMOVAL - WATER BLASTING	CURB REFLECTORS	PAINT CURB
						LINE 6"	LINE 8"	LINE 12"	LINE 24"	LETTERS AND SYMBOLS			
STA.	TO	STA.	LOCATION	COLOR	TYPE	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	EACH	FOOT
<b>BOUL AVE.</b>													
243+20.90	TO	243+62.14	CROSSWALK IN	WHITE	SINGLE			40.0					
243+24.99	TO	243+56.02	CROSSWALK OUT	WHITE	SINGLE			30.0					
243+27.02			STOP BAR	WHITE	SINGLE				11.3				
244+29.67	TO	246+78.81	MEDIAN RT								84.2		
			MEDIAN LT								84.3		
244+29.67	TO	246+58.40	MEDIAN LT	YELLOW	DOUBLE	459.1							
			MEDIAN RT	YELLOW	DOUBLE	460.0							
			MEDIAN DIAGONALS	YELLOW	SINGLE			43.6					
244+79.87	TO	246+00.88	DOTTED TAPER	WHITE	DOTTED	30.4							
245+60.87	TO	246+50.36	RADIUS LT	WHITE	SINGLE	127.3							
			RADIUS DIAGONALS	WHITE	SINGLE			83.4					
246+00.88	TO	246+59.36	PAINTED MEDIAN LT	WHITE	SINGLE	64.1							
			PAINTED MEDIAN RT	WHITE	SINGLE	66.8							
			DIAGONALS	WHITE	SINGLE			35.8					
246+07.53			LTL	WHITE	LT ARROW					8.8			
			RTL	WHITE	RT ARROW					8.8			
246+46.70			LTL	WHITE	LT ARROW					8.8			
			RTL	WHITE	RT ARROW					8.8			
246+57.46			LTL STOP BAR	WHITE	SINGLE				11.0				
246+59.47			RTL STOP BAR	WHITE	SINGLE				18.0				
246+64.57			X-WALK - BOUL	WHITE	SINGLE				112.0				
246+73.50			STOP BAR - THRU								32.0		
246+86.98			STOP BAR - RT								30.0		
<b>IL 159</b>													
129+23.07	TO	129+91.08	MEDIAN RT								25.3	9.0	47.6
			MEDIAN LT								22.1		47.6
129+33.14	TO	129+70.72	MEDIAN RT	YELLOW	SINGLE	48.8							
			MEDIAN LT	YELLOW	SINGLE	54.5							
129+57.81	TO	129+87.06	ISLAND - 159 SIDE	WHITE	SINGLE		29.7					14.0	75.0
			ISLAND - RTL SIDE	WHITE	SINGLE		34.1						
			ISLAND - BOUL SIDE	WHITE	SINGLE		27.8						
129+62.32			STOP BAR - RTL	WHITE	SINGLE				18.0				
129+66.21			STOP BAR - RT								52.0		
			1 SKIP DASH								3.3		
129+66.45			STOP BAR - THRU	WHITE	SINGLE				24.0				
129+68.32			CROSSWALK - RTL	WHITE	SINGLE				42.0				
129+74.83			CROSSWALK - 159	WHITE	SINGLE				119.0				
129+79.40			STOP BAR - THRU								50.0		
<b>TOTAL:</b>						1,311	92	233	355	35	383	23	170

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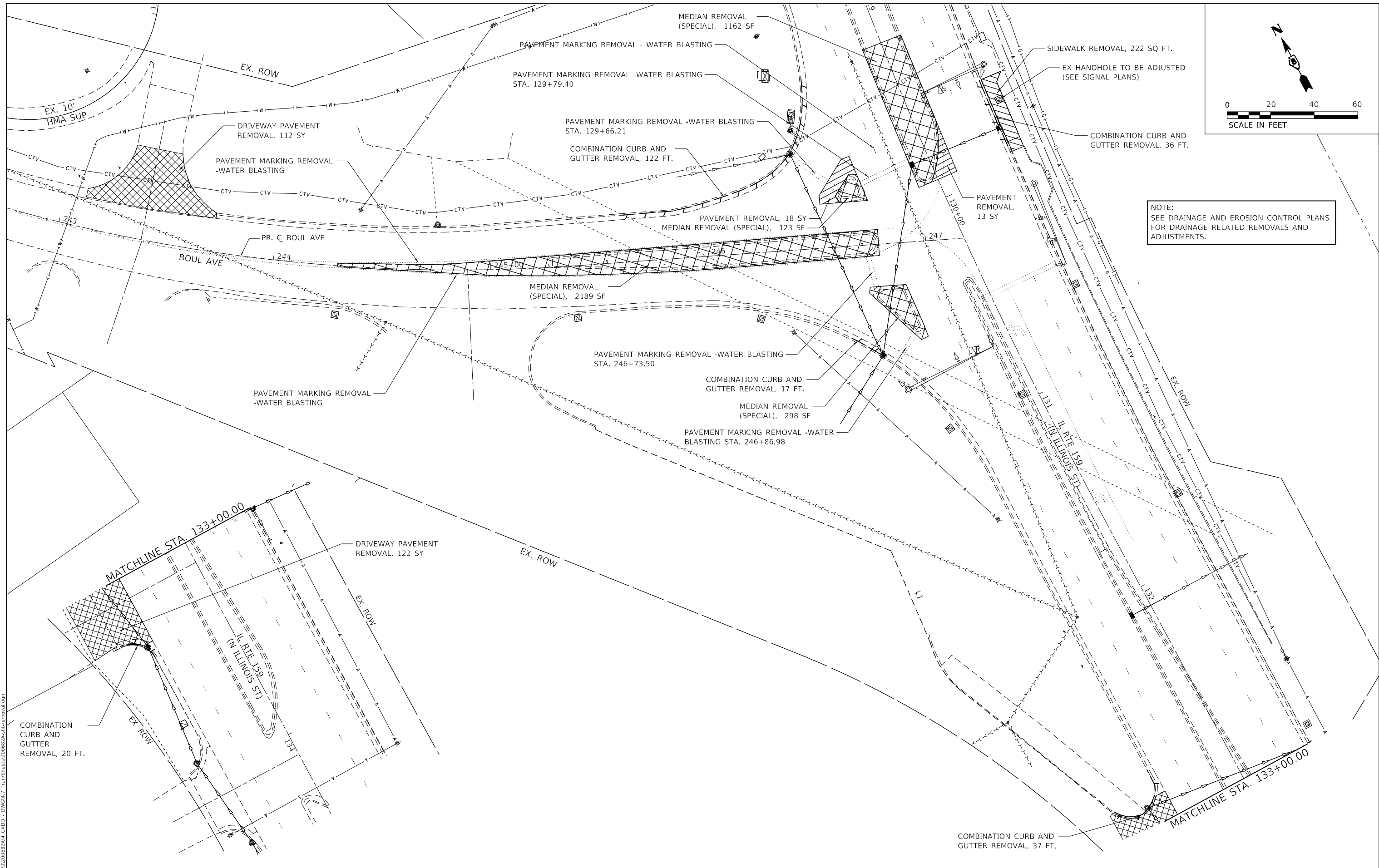


**VILLAGE OF SWANSEA**

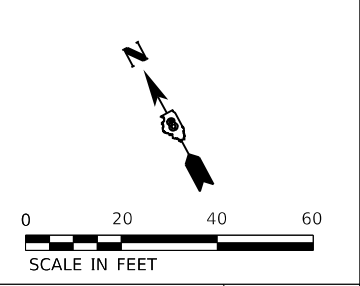
**SCHEDULE OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	12
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	



NOTE:  
SEE DRAINAGE AND EROSION CONTROL PLANS FOR DRAINAGE RELATED REMOVALS AND ADJUSTMENTS.



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VILLAGE OF SWANSEA

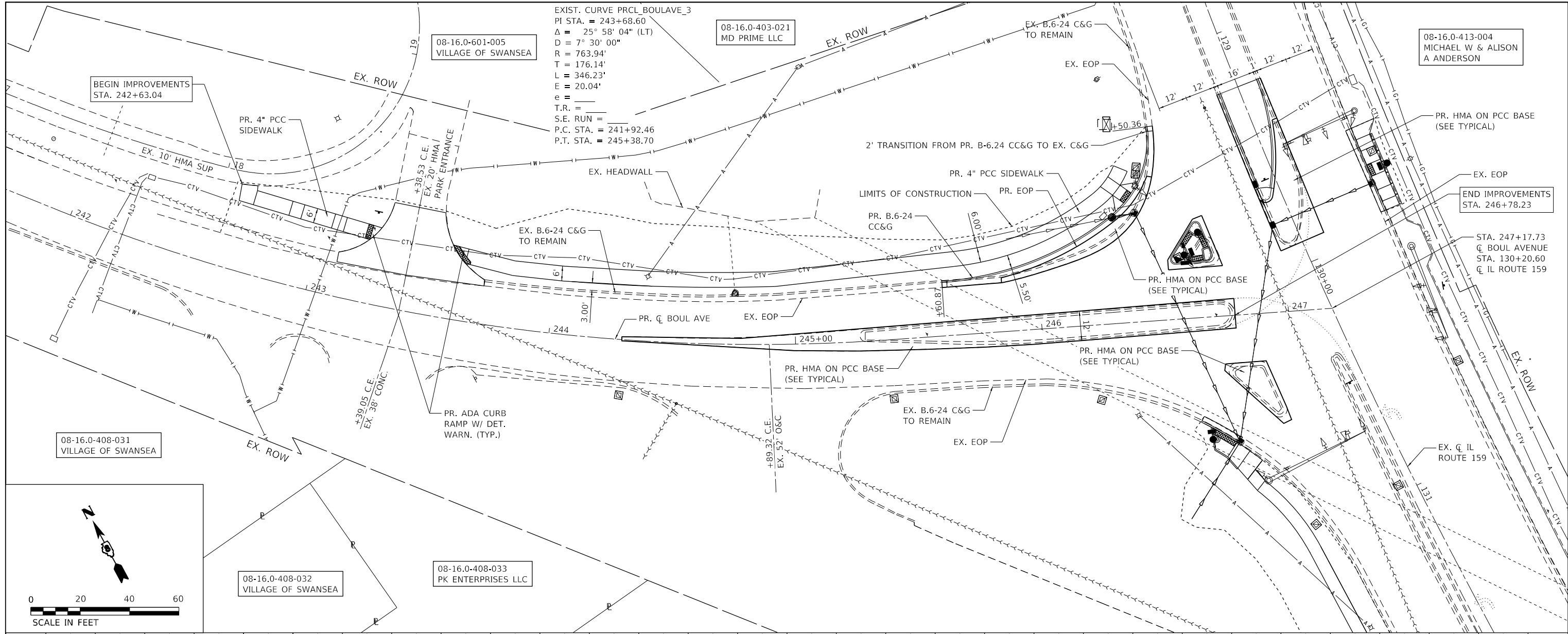
REMOVAL PLAN  
BOUL AVENUE & IL RTE 159

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

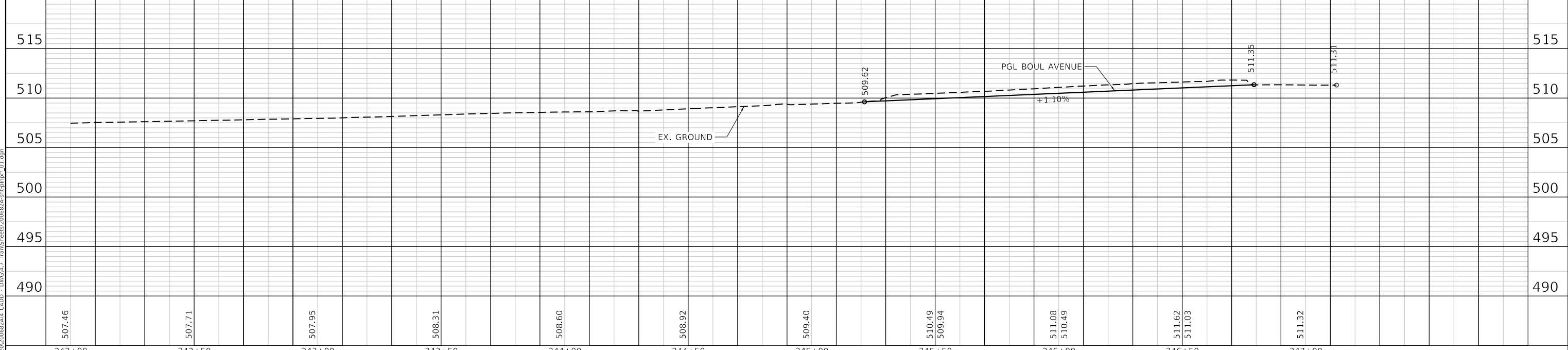
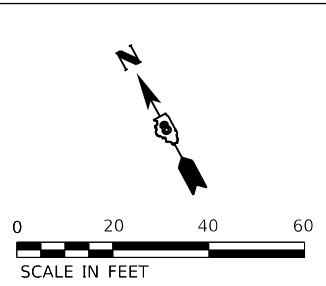
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	

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

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



EXIST. CURVE PRCL BOULAVE\_3  
 PI STA. = 243+68.60  
 $\Delta = 25^\circ 58' 04''$  (LT)  
 $D = 7^\circ 30' 00''$   
 $R = 763.94'$   
 $T = 176.14'$   
 $L = 346.23'$   
 $E = 20.04'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 241+92.46$   
 $P.T. STA. = 245+38.70$



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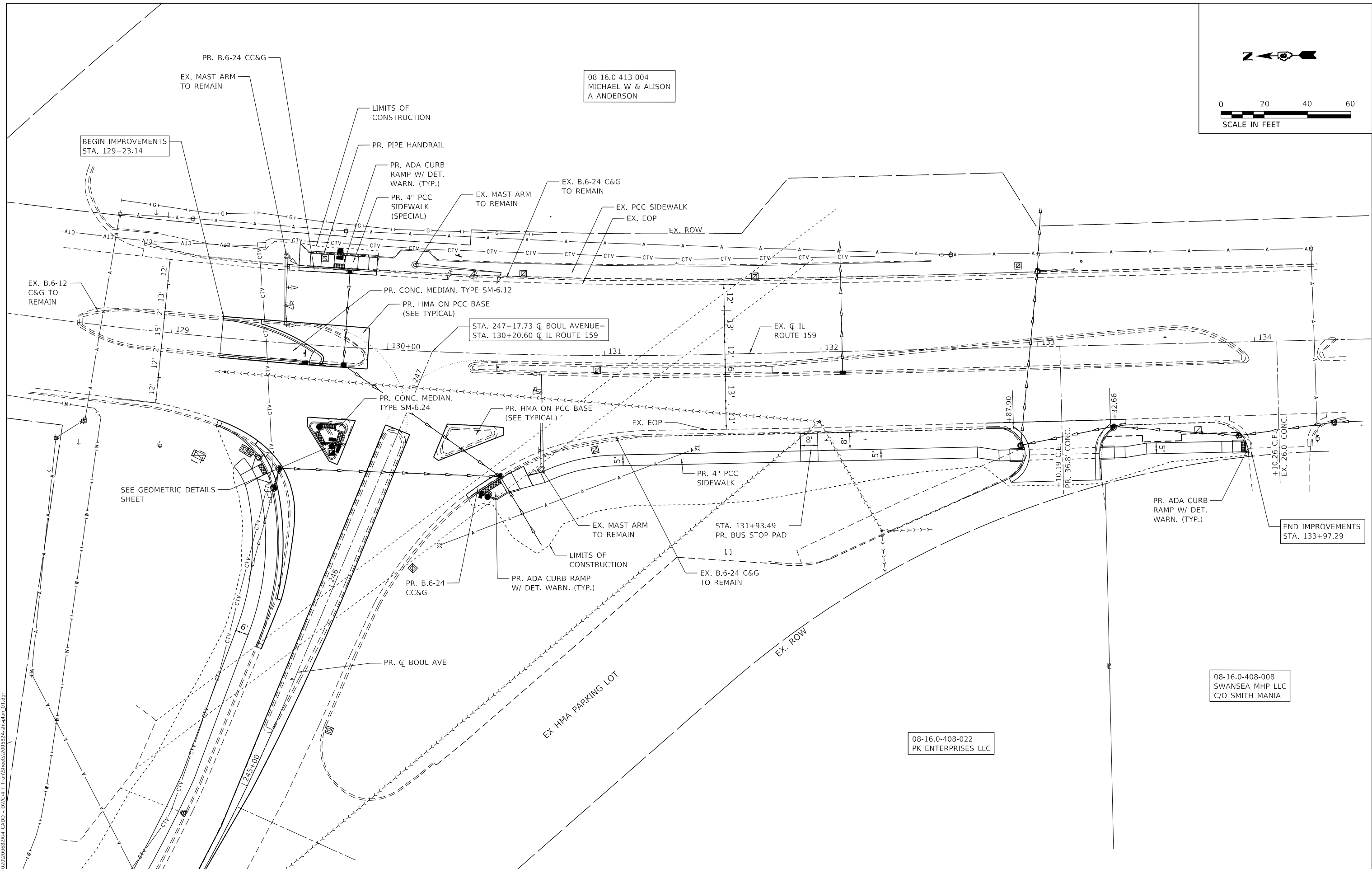
**VILLAGE OF SWANSEA**

**PLAN AND PROFILE**  
**BOUL AVENUE**  
 SCALE: 1"=20'  
 SHEET 1 OF 1 SHEETS  
 STA. 242+75.01 TO STA. 247+17.73

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	14
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



08-16.0-413-004  
MICHAEL W & ALISON  
A ANDERSON



08-16.0-408-008  
SWANSEA MHP LLC  
C/O SMITH MANIA

08-16.0-408-022  
PK ENTERPRISES LLC

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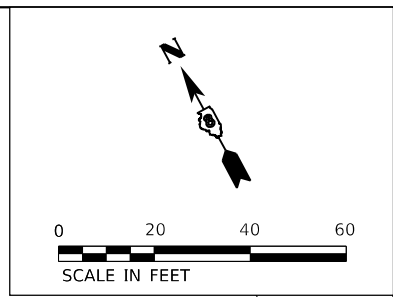
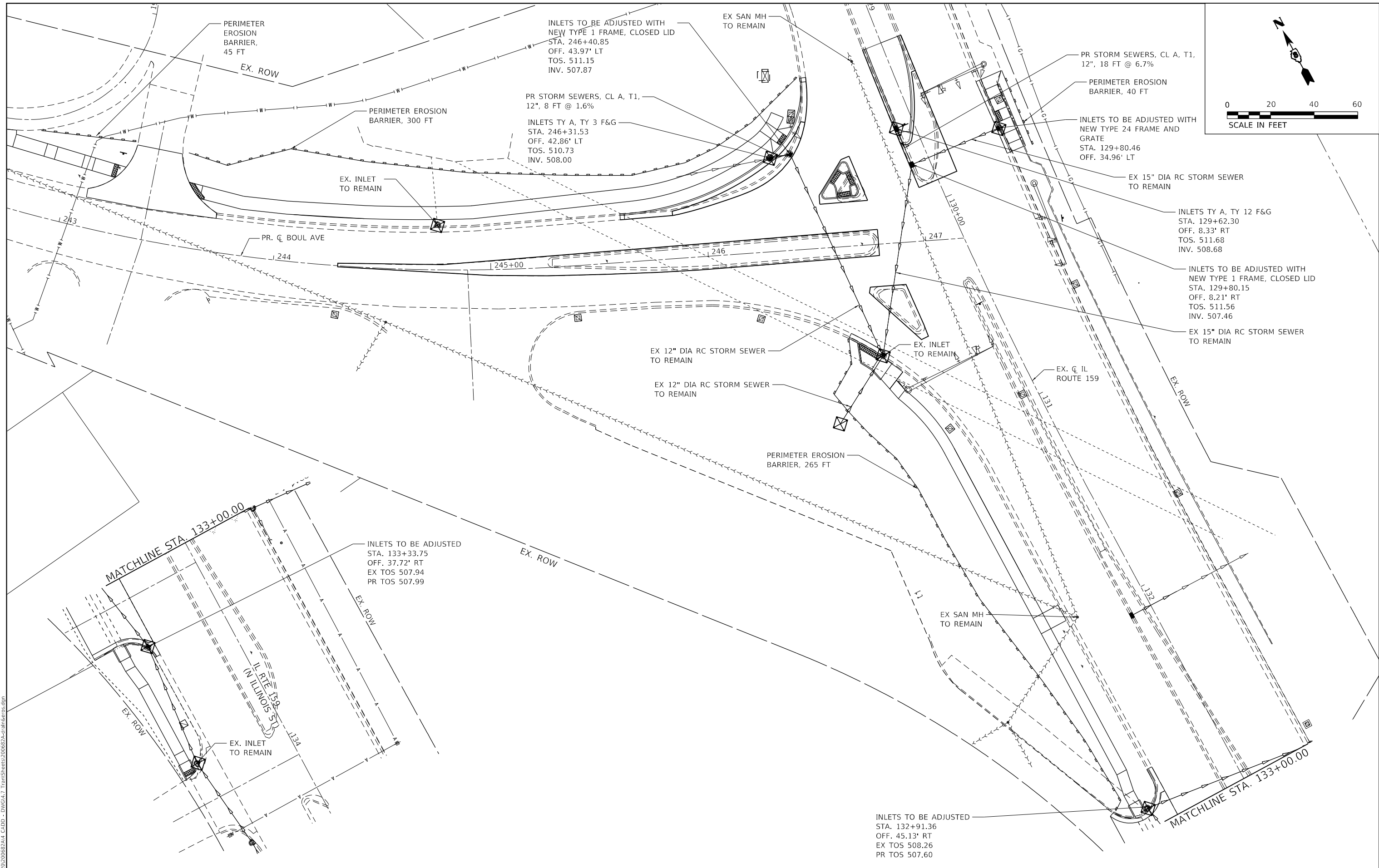
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VILLAGE OF SWANSEA

PLAN  
IL ROUTE 159  
SCALE: 1"=20'  
SHEET 1 OF 1 SHEETS  
STA. 129+23.14 TO STA. 133+97.29

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	15
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



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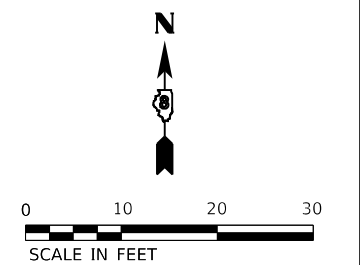
**VILLAGE OF SWANSEA**

**DRAINAGE AND EROSION CONTROL PLAN  
BOUL AVENUE & IL RTE 159**

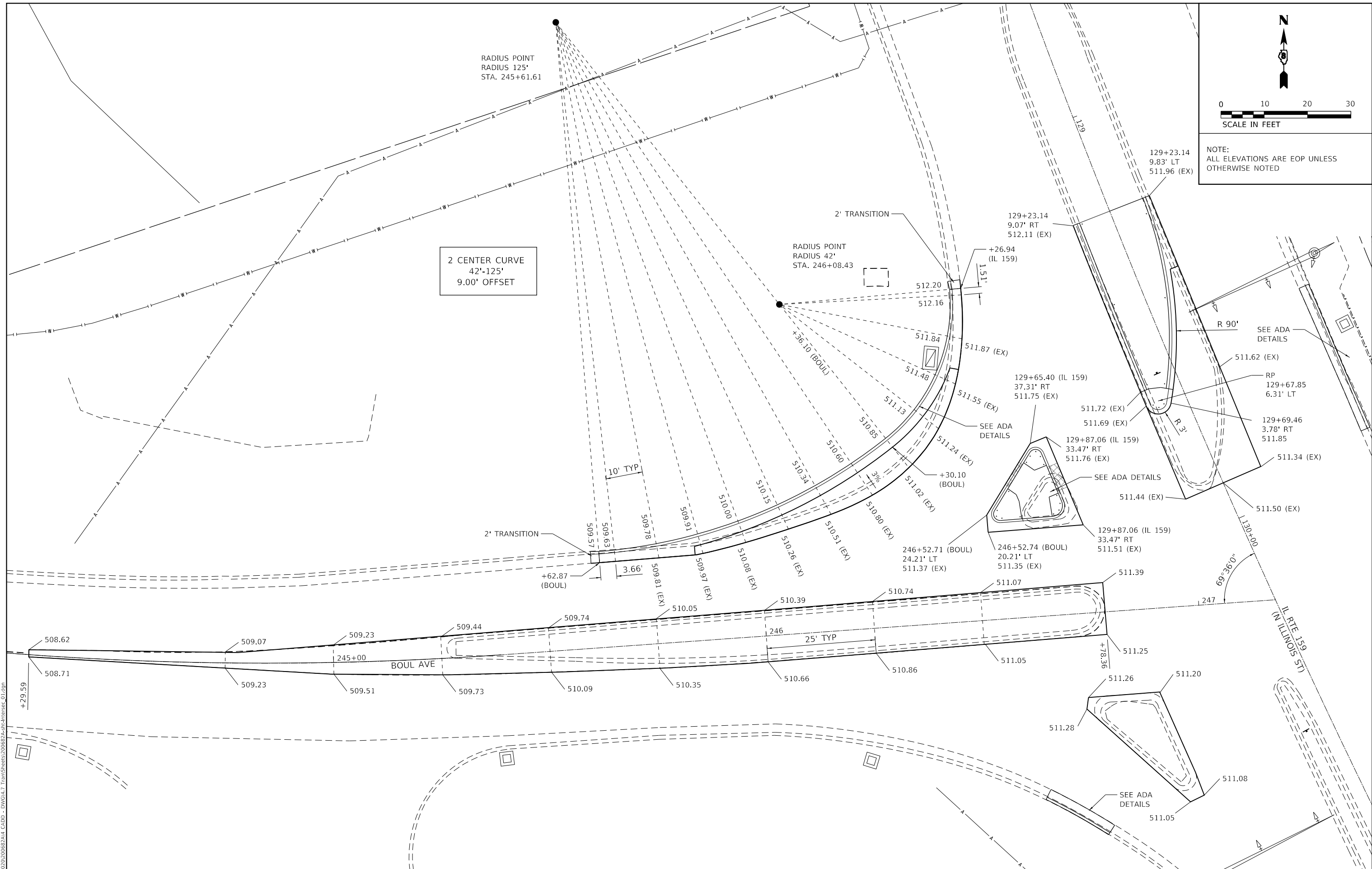
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 161
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	





NOTE:  
ALL ELEVATIONS ARE EOP UNLESS  
OTHERWISE NOTED



MODEL: D:\dgn\...  
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**VILLAGE OF SWANSEA**

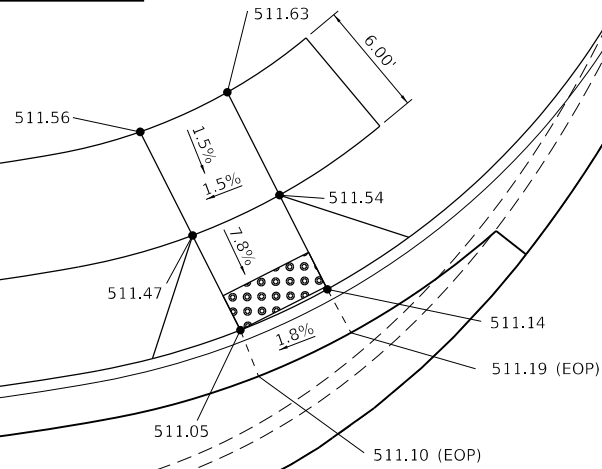
**GEOMETRIC DETAILS INTERSECTION**

SCALE: 1" = 10' SHEET 1 OF 5 SHEETS STA. TO STA.

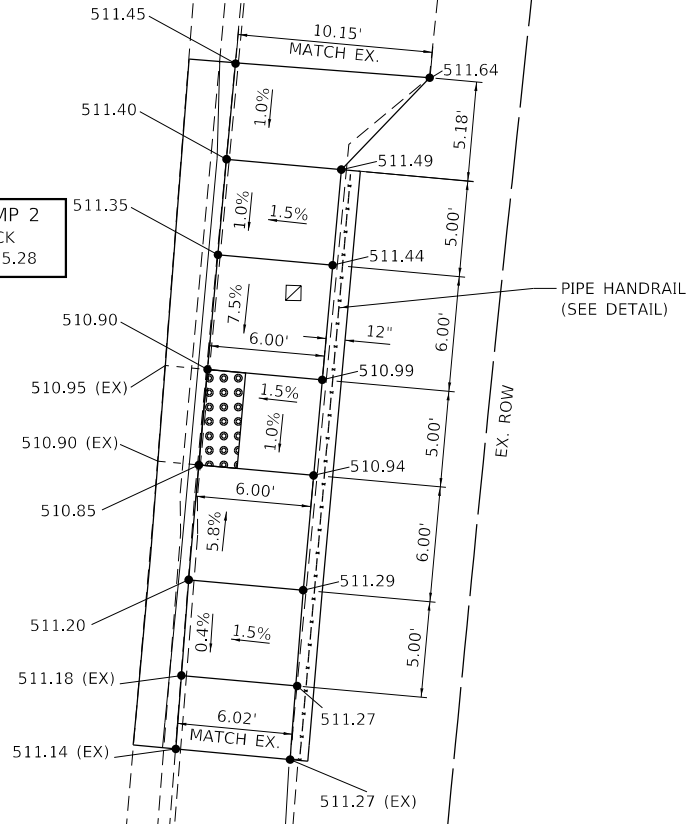
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	17
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



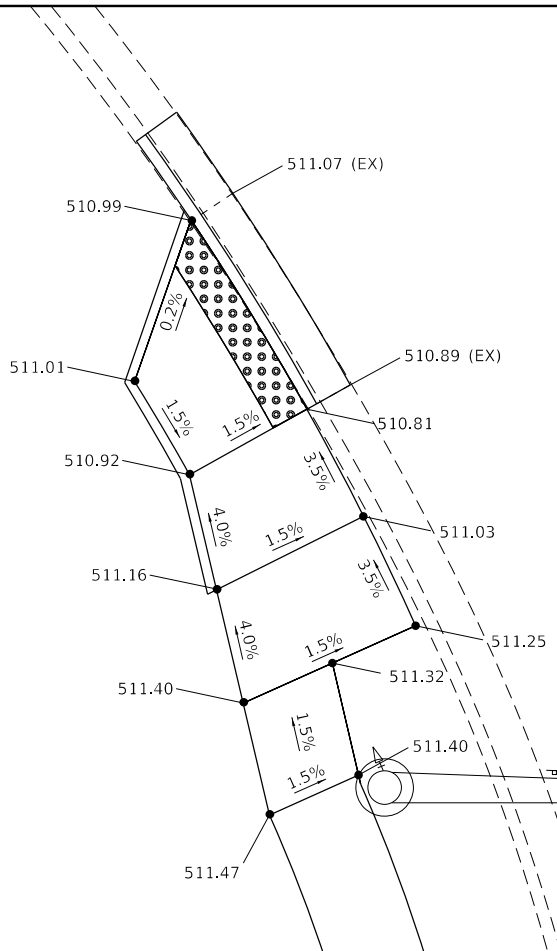
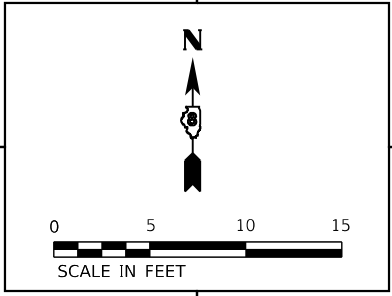
**CURB RAMP 1**  
PERPENDICULAR MID-BLOCK  
STA. 246+38.18



**CURB RAMP 2**  
MID-BLOCK  
STA. 129+75.28

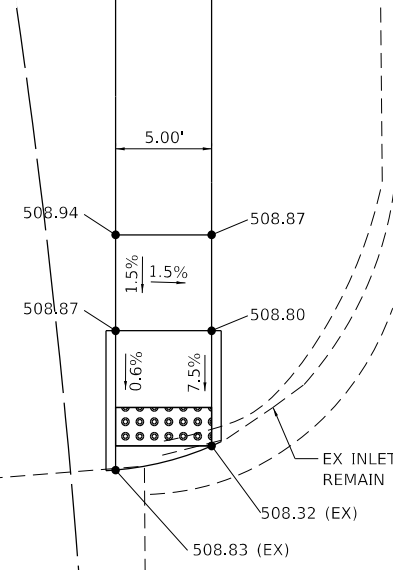


BOUL AVENUE



**CURB RAMP 3**  
PERPENDICULAR  
STA. 130+48.34

**CURB RAMP 4**  
PERPENDICULAR  
STA. 133+97.27



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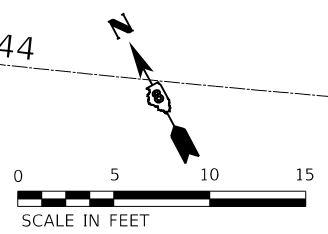


VILLAGE OF SWANSEA

**GEOMETRIC DETAILS  
ADA RAMPS**

SCALE: 1" = 5' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	



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	DATE -	REVISED -



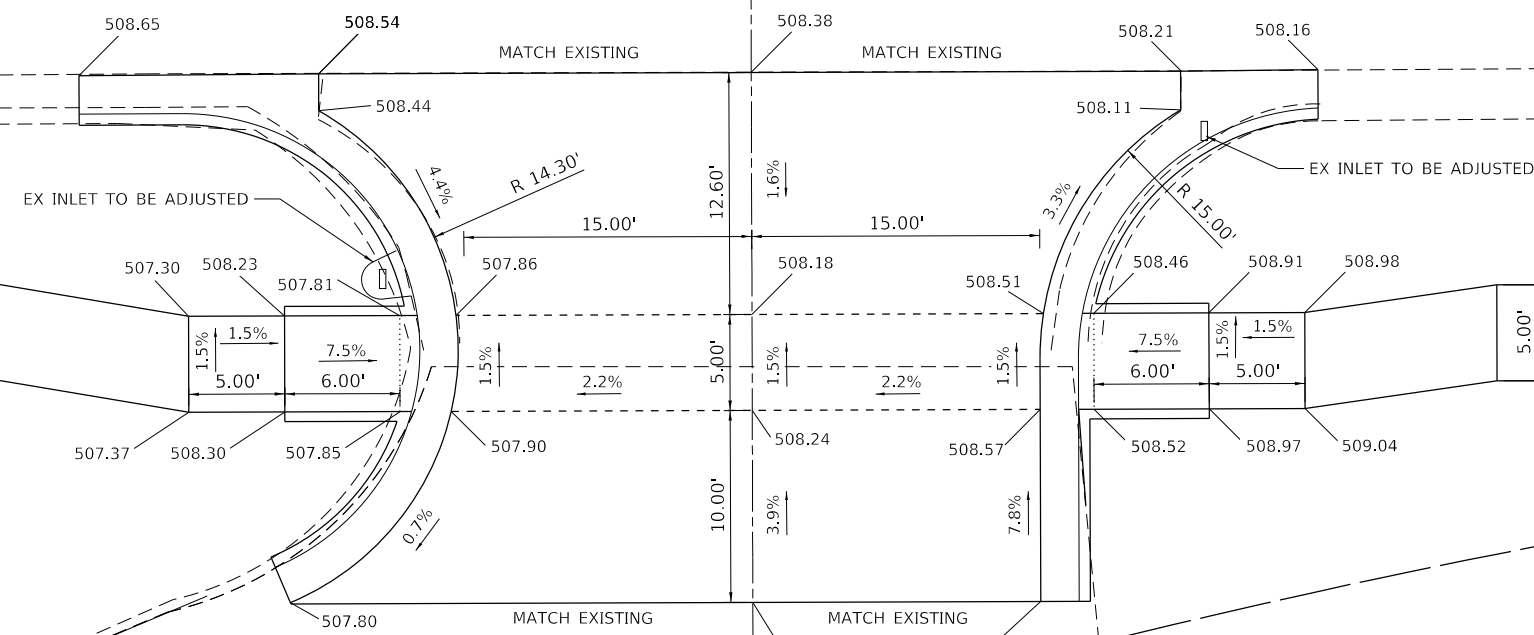
**VILLAGE OF SWANSEA**

**GEOMETRIC DETAILS**  
**ENTRANCE STA. 243 + 38.53 LT**

SCALE: 1" = 5'    SHEET 4 OF 5 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	20
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				

133



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DATE -	REVISD -



VILLAGE OF SWANSEA

**GEOMETRIC DETAILS  
ENTRANCE 133 + 10.35 RT**

SCALE: 1" = 5' SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	21
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



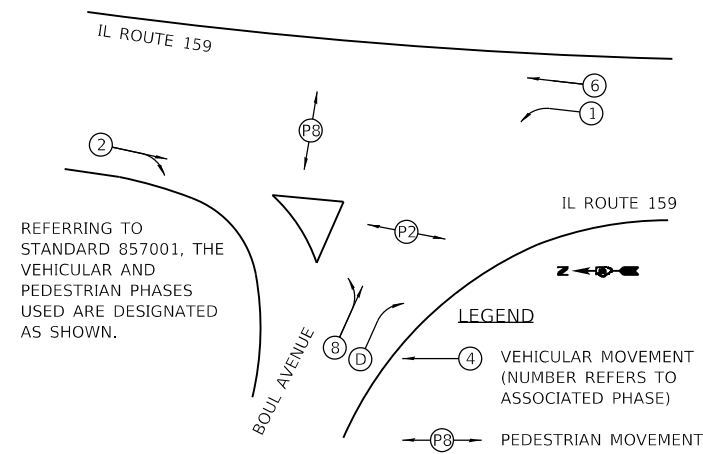
**GENERAL NOTES:**

- TRAFFIC SIGNALS SHALL BE OPERATIONAL AND ALL TRAFFIC SIGNAL WORK SHALL BE COMPLETED DURING THE BOUL AVENUE IMPROVEMENTS.
- ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE AND SHALL HAVE 12" L.E.D. SECTIONS. ALL MOUNTING HARDWARE SHALL BE ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- THE LOCATION OF THE TRAFFIC SIGNAL POST SHALL BE APPROVED BY IDOT BEFORE FOUNDATIONS ARE CONSTRUCTED. IN CURBED SECTIONS, THE TRAFFIC SIGNAL POST CENTERS SHALL BE LOCATED A MINIMUM OF 4 FEET FROM THE FACE OF THE CURB.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FORK TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY IDOT BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(A)). THE CAST-IN-PLACE LEGEND ON THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE. IF A TIME SETTING IS PROGRAMMED, THEY SHALL BE RACK MOUNTED.
- CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "UNDERGROUND CONDUIT" AND INSTALLED PER ARTICLE 810.04 (A) OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- A 1/4" DIAMETER CONTINUOUS NYLON PULL ROPE SHALL BE FURNISHED AND INSTALLED IN ALL CONDUITS. THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEMS.
- QUADRUPLE DETECTOR LOOPS SHALL HAVE 3 TURNS WITH SIX WIRES IN THE CENTER SLOT.
- ANY EXTENDERS NECESSARY FOR INSTALLATION OF THE PEDESTRIAN PUSH BUTTONS SHALL BE INCIDENTAL TO THE PRICE FOR ACCESSIBLE PEDESTRIAN SIGNALS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO THEIR MAINTENANCE FACILITY LOCATED AT 9601 ST. CLAIR AVENUE, FAIRVIEW HEIGHTS.
- LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
- THE FOLLOWING IDOT STANDARDS SHALL APPLY TO CONSTRUCTION OF THE SIGNALS: 000001-08, 814001-03, 838001-01, 857001-01, 873001-02, 878001-11, 880006-01, 886001-01, 886006-01.

CODE NUMBER	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	3.76
80300100	LOCATING UNDERGROUND CABLE	FOOT	345
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	36
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	23
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	64
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1
81400100	HANDHOLE	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	632
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	650
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	122
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	122
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	38
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	204
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88500520	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY AND CALL CARRY-OVER, DIGITAL DESIGN	EACH	2
88600100	DETECTOR LOOP, TYPE 1	FOOT	342
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8140115	HANDHOLE TO BE ADJUSTED	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	1

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
BOUL AVE WB LT	8	6' X 50' (Q)	3-6-3	824.28	2.4600
BOUL AVE WB RT	O.L.D.	6' X 50' (Q)	3-6-3	823.29	2.4375

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES



PHASE	1	2	3	4	5	6	7	8	O.L.D.
MOVEMENT	↙	↔ P2	↘	↕ P8		←			↗
CONCURRENT MOVEMENT PERMITTED	6	6	O.L.D.	O.L.D.	NOT USED	1 OR 2 OR O.L.D.	NOT USED	NOT USED	1 OR 1+6 OR 3

MODEL Dwg.rvt  
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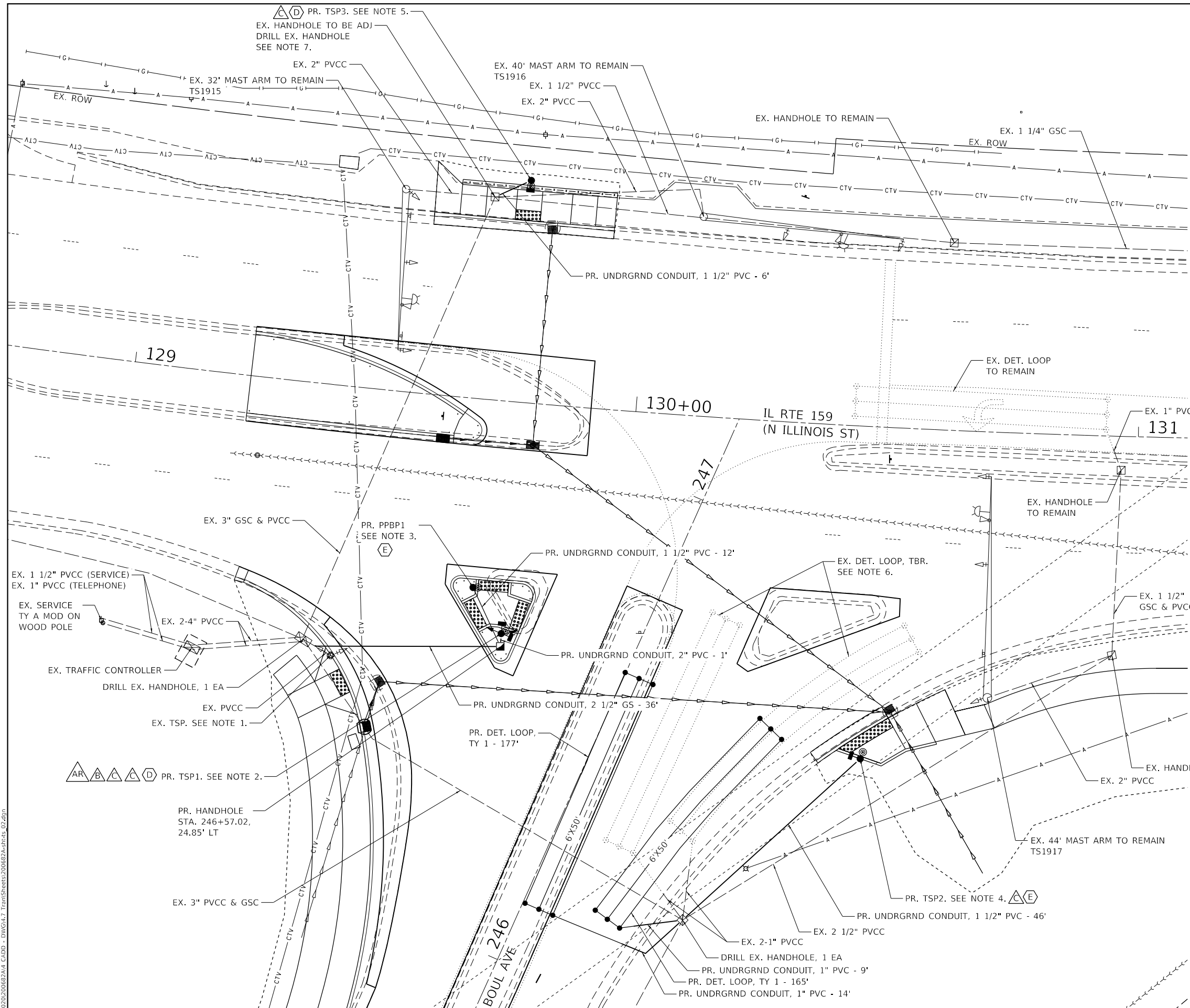


**VILLAGE OF SWANSEA**

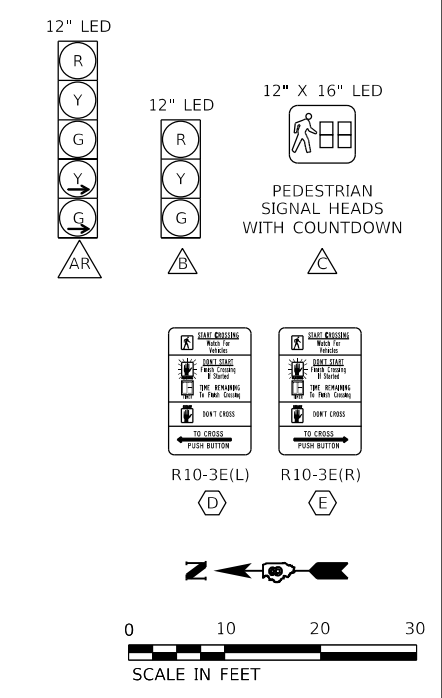
**TRAFFIC SIGNAL GENERAL NOTES, DETAILS, & SUMMARY OF QUANTITIES**  
**BOUL AVENUE AND IL ROUTE 159**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	23
ILLINOIS			FED. AID PROJECT	

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.



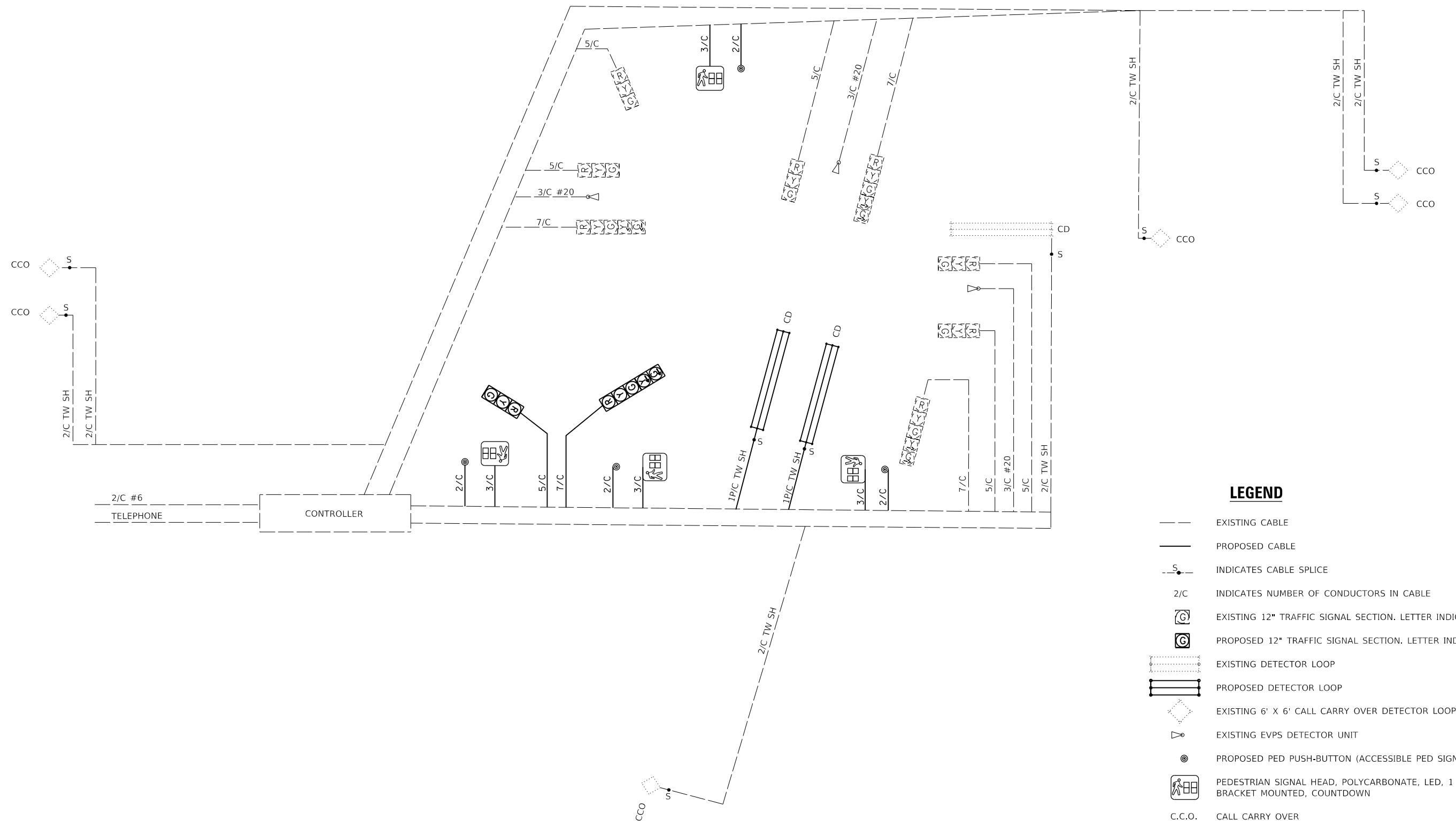
- NOTES.
1. REMOVE EX. CONC. FOUNDATION AND TRAFFIC SIGNAL EQUIPMENT. EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDES BUT IS NOT LIMITED TO THE TRAFFIC SIGNAL POST AND SIGNAL HEADS. REMOVE THE CONDUIT AND CABLE BETWEEN THE EX. TS POST TO BE REMOVED AND THE EX. HANDHOLE TO REMAIN. COST INCLUDED IN COST OF REMOVE EX. TRAFFIC SIGNAL EQUIPMENT.
  2. PR. TSP1. STA. 246+59.45, 25.77' LT. TS POST ALUM., 16' W/ PR. FAR LT TS HEAD, PR. NEAR RT TS HEAD, PR. PED. SIGNAL HEADS, AND ACCESSIBLE PED SIGNALS AND CONC. FOUNDATION TY A.
  3. PPBP1. STA. 246+65.54, 34.63' LT. PR. PED. PUSH-BUTTON POST W/ ACCESSIBLE PED. SIGNALS AND CONC. FOUNDATION TY A. SEE PED. PUSH BUTTON POST DETAIL.
  4. PR. TSP2. STA. 246+65.87, 49.52' RT. TS POST ALUM., 14' W/ PR. PED. SIGNAL HEADS AND ACCESSIBLE PED SIGNALS AND CONC. FOUNDATION TY A.
  5. PR. TSP3. STA. 129+75.32, 44.14' LT. TS POST ALUM., 14' W/ PR. PED. SIGNAL HEADS, AND ACCESSIBLE PED SIGNALS AND CONC. FOUNDATION TY A.
  6. THE EXISTING DETECTOR LOOP WILL BE REMOVED AS NECESSARY TO NOT INTERFERE WITH THE DETECTOR LOOP, TY 1. THIS WILL INCLUDE REMOVING THE ELECTRICAL CABLE TO THE EX. HANDHOLE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
  7. EX. HANDHOLE TO BE ADJUSTED. EX. TOS IS 511.46'. SEE GEOMETRIC DETAIL ADA RAMP FOR PROPOSED ELEVATION INFORMATION.



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	USER NAME = jstein PLOT SCALE = 20.0000' / in. PLOT DATE = 7/19/2023	DESIGNED - NAN DRAWN - NAN CHECKED - JWS DATE -	REVISED - REVISED - REVISED - REVISED -		<b>VILLAGE OF SWANSEA</b> <b>TRAFFIC SIGNAL PLAN</b> <b>BOUL AVENUE AND IL ROUTE 159</b>	F.A.U. RTE. 9293 SECTION 21-00038-01-BT COUNTY ST. CLAIR TOTAL SHEETS 42 SHEET NO. 24	CONTRACT NO. 97817 ILLINOIS FED. AID PROJECT
	SCALE: 1"=10' SHEET 2 OF 4 SHEETS STA. TO STA.	SCALE IN FEET 0 10 20 30					





**LEGEND**

- EXISTING CABLE
- PROPOSED CABLE
- S- INDICATES CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- Ⓜ EXISTING 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- Ⓜ PROPOSED 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- ⋯ EXISTING DETECTOR LOOP
- ▬▬▬ PROPOSED DETECTOR LOOP
- ◇ EXISTING 6' X 6' CALL CARRY OVER DETECTOR LOOP
- ▷ EXISTING EVPS DETECTOR UNIT
- ⊙ PROPOSED PED PUSH-BUTTON (ACCESSIBLE PED SIGNALS)
- Ⓜ PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1 FACE, BRACKET MOUNTED, COUNTDOWN
- C.C.O. CALL CARRY OVER
- CD CALL DELAY
- TW SH TWISTED AND SHIELDED CABLE
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)



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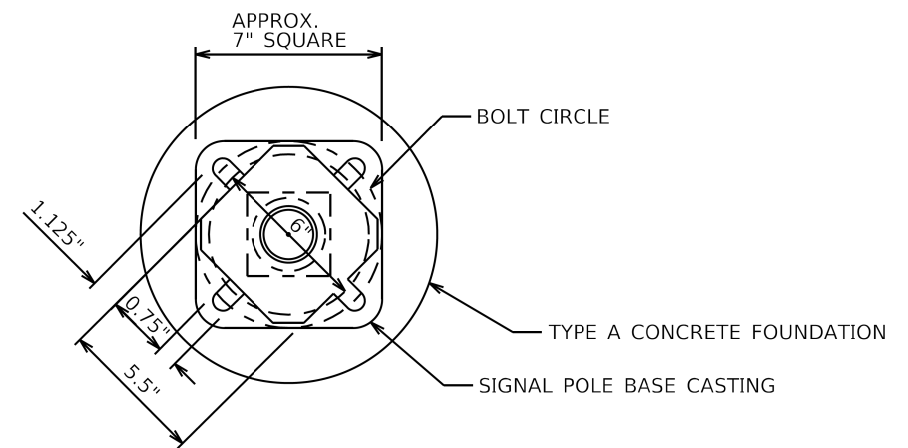
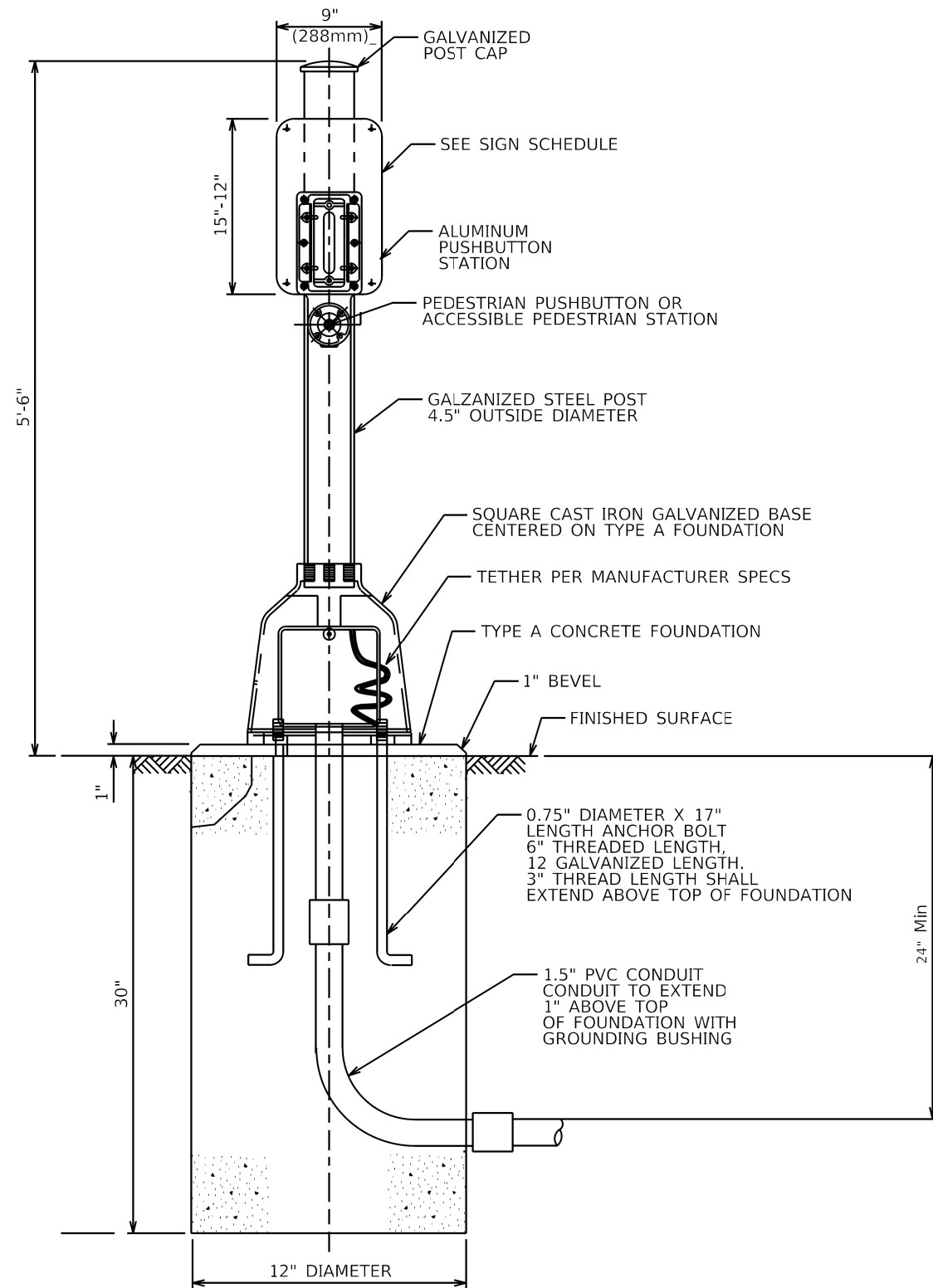


**VILLAGE OF SWANSEA**

**TRAFFIC SIGNAL CABLE DIAGRAM  
BOUL AVENUE AND IL ROUTE 159**

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	



**BOLT PATTERN**  
**PEDESTRIAN PUSH-BUTTON POST**

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DATE -	REVISED -

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DATE -	REVISED -



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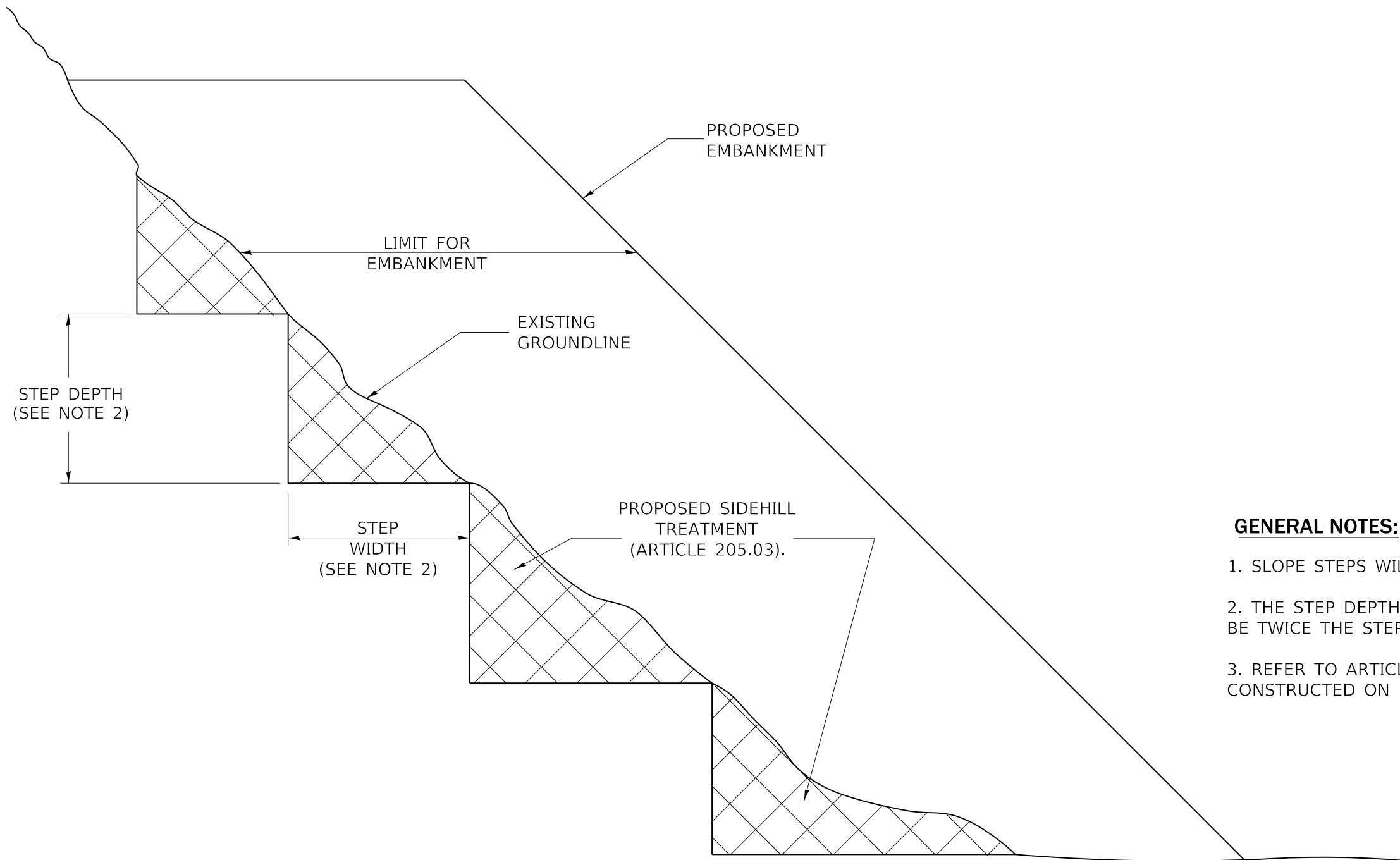
**DISTRICT 8 TRAFFIC SIGNAL DETAILS**  
**PEDESTRIAN PUSH-BUTTON POST & CONCRETE FOUNDATION TYPE A**

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	26
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				

# 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).

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DATE -	REVISED -

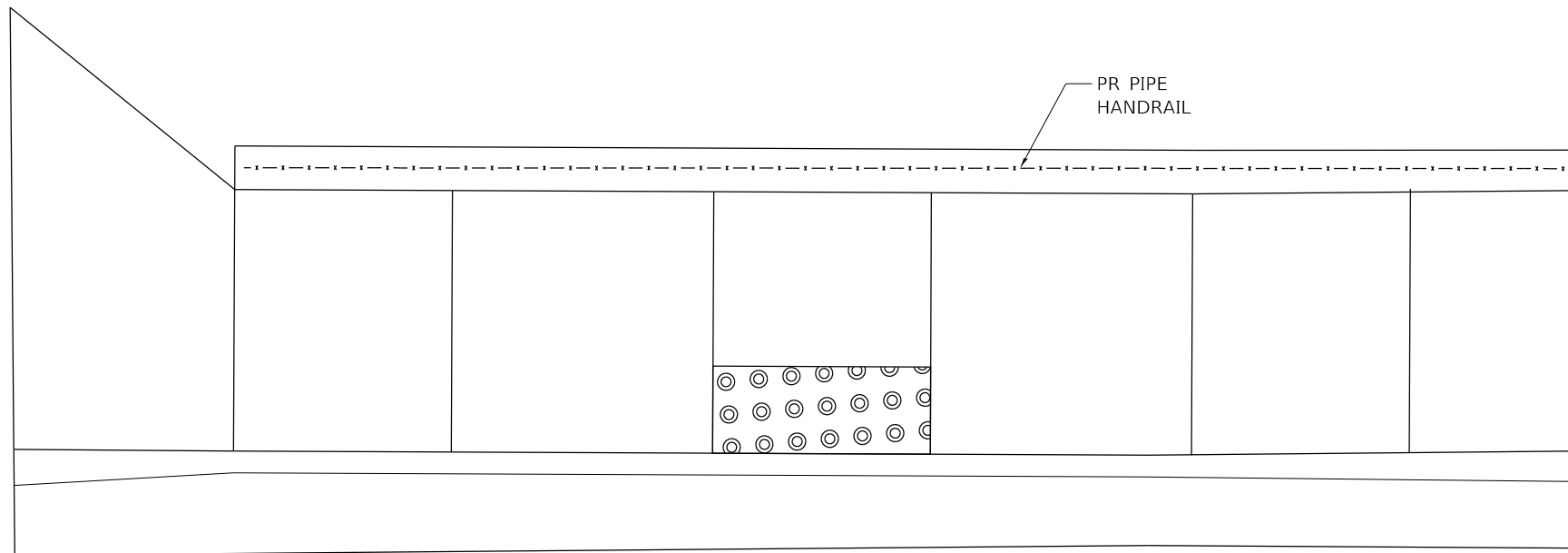


VILLAGE OF SWANSEA

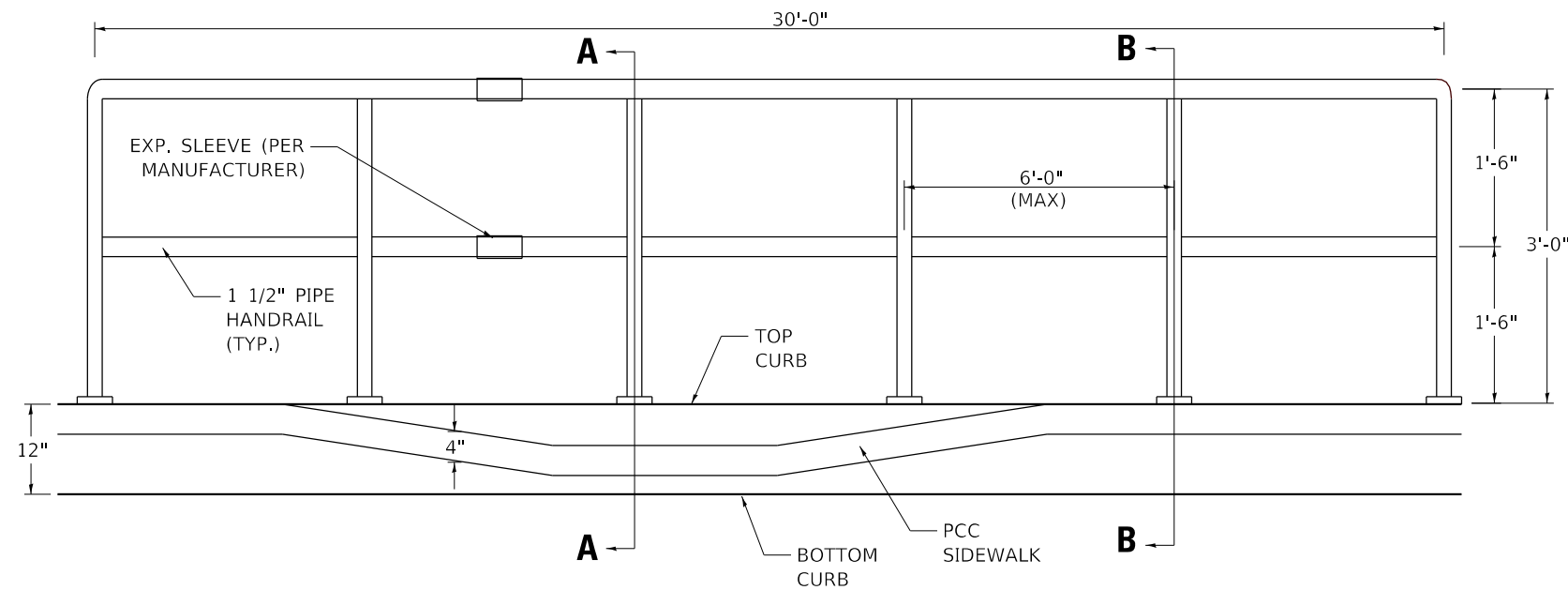
**MISCELLANEOUS DETAILS  
SLOPE STEPS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	27
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



**PLAN**



**ELEVATION**

**GENERAL NOTES**

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND COORDINATE POST LAYOUT WITH HANDRAIL MANUFACTURER.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND MANUFACTURING MATERIALS.

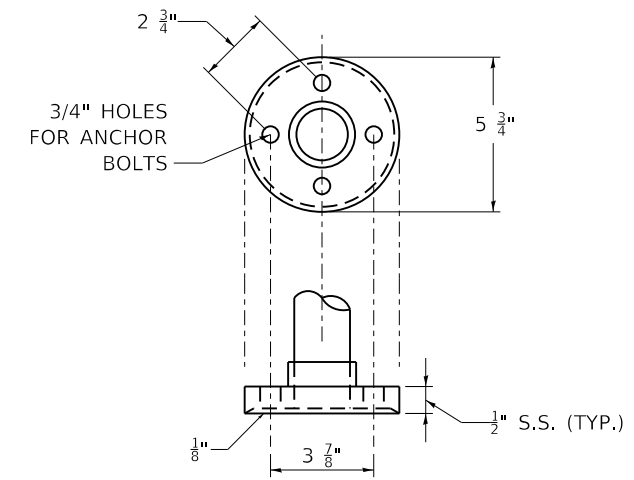
HANDRAIL SHALL BE IN ACCORDANCE WITH SECTION 509 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED.

PIPE MATERIAL SHALL CONFORM TO ASTM A53.

ALL OTHER STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 36.

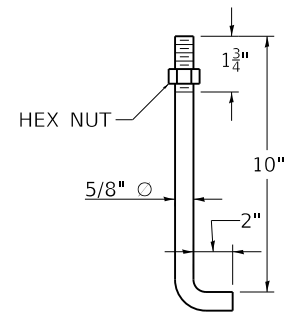
ALL PIPE HANDRAIL AND ANY HARDWARE SHALL BE GALVANIZED.

PIPE HANDRAIL FOUNDATION SHALL CONSIST OF CLASS SI CONCRETE AND BE POURED INTERGAL WITH THE PCC SIDEWALK. COST INLCUDED IN THE COST OF PCC SIDEWALK. 4" (SPECIAL).



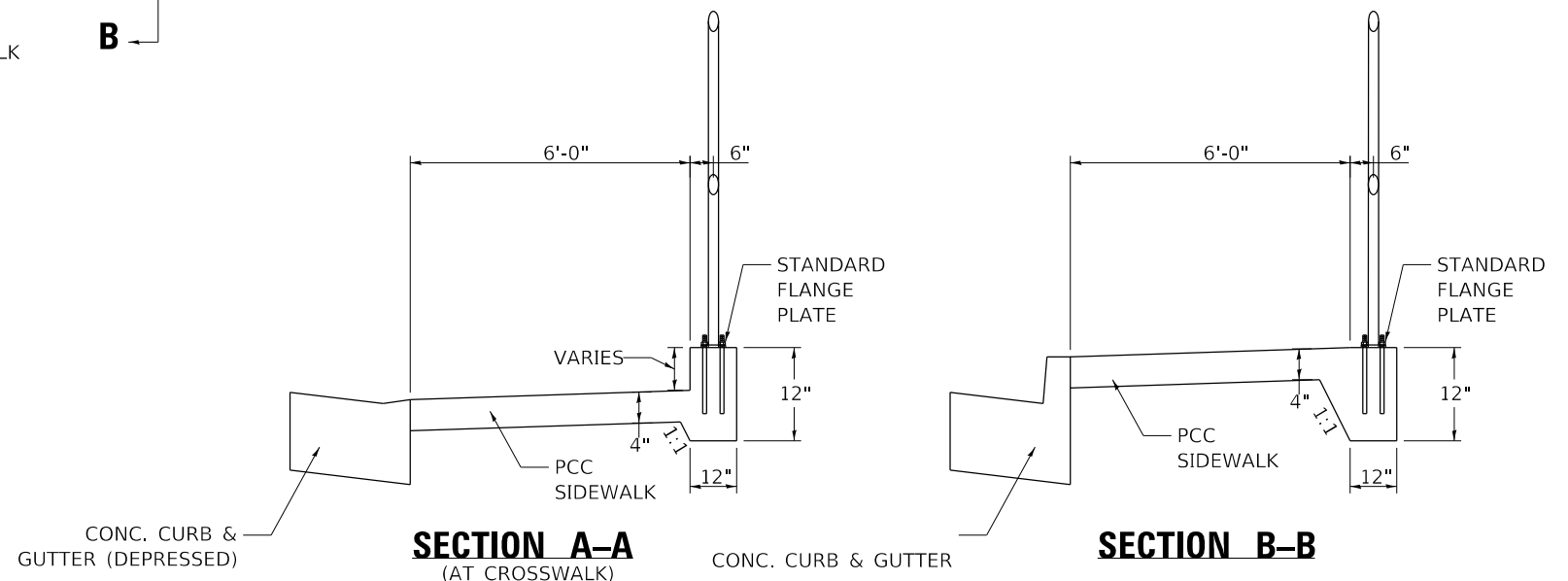
**STANDARD FLANGE**

CAST IRON OR STRUCTURAL STEEL FITTING



**ANCHOR BOLT**

5/8"Ø 12" LONG  
CAST IN PLACE



**SECTION A-A**  
(AT CROSSWALK)

**SECTION B-B**

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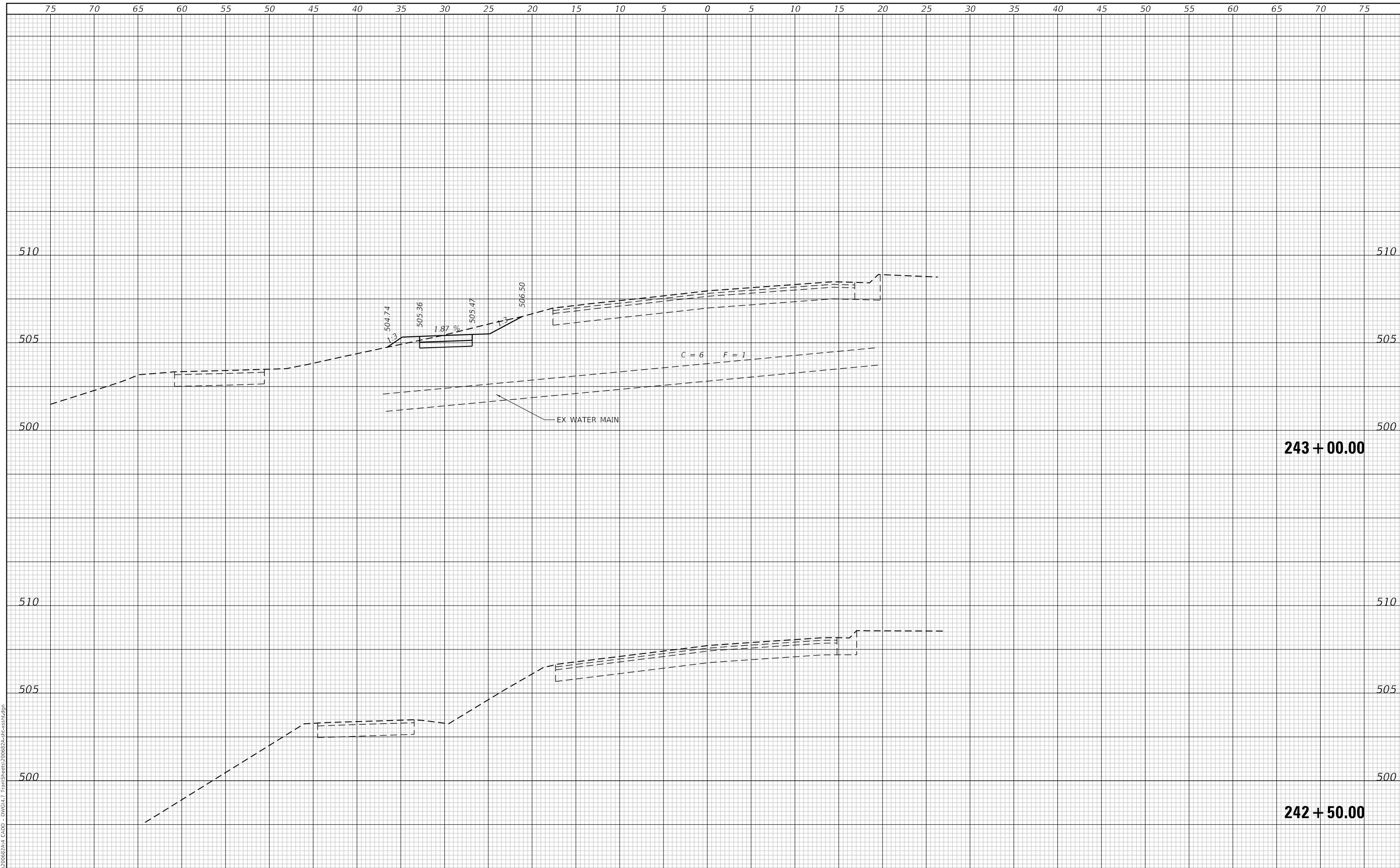
**MISCELLANEOUS DETAILS**  
**PIPE HANDRAIL**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	28
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				

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

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



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**VILLAGE OF SWANSEA**

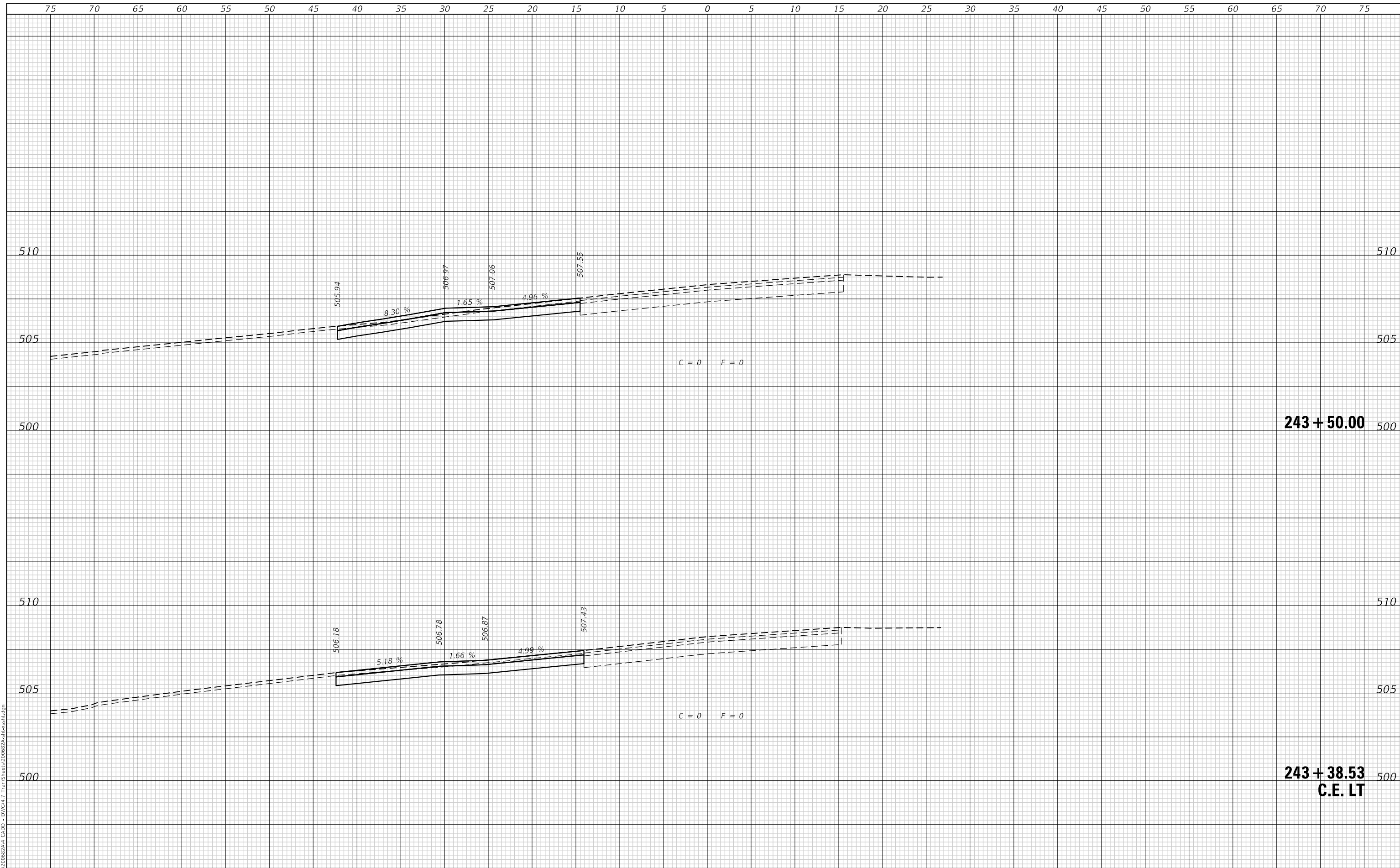
**CROSS SECTIONS  
 BOUL AVENUE**

SCALE: 1"=5'    SHEET 1 OF 6 SHEETS    STA. 242+50.00 TO STA. 243+00.00

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	

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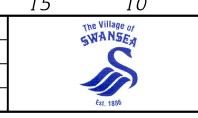
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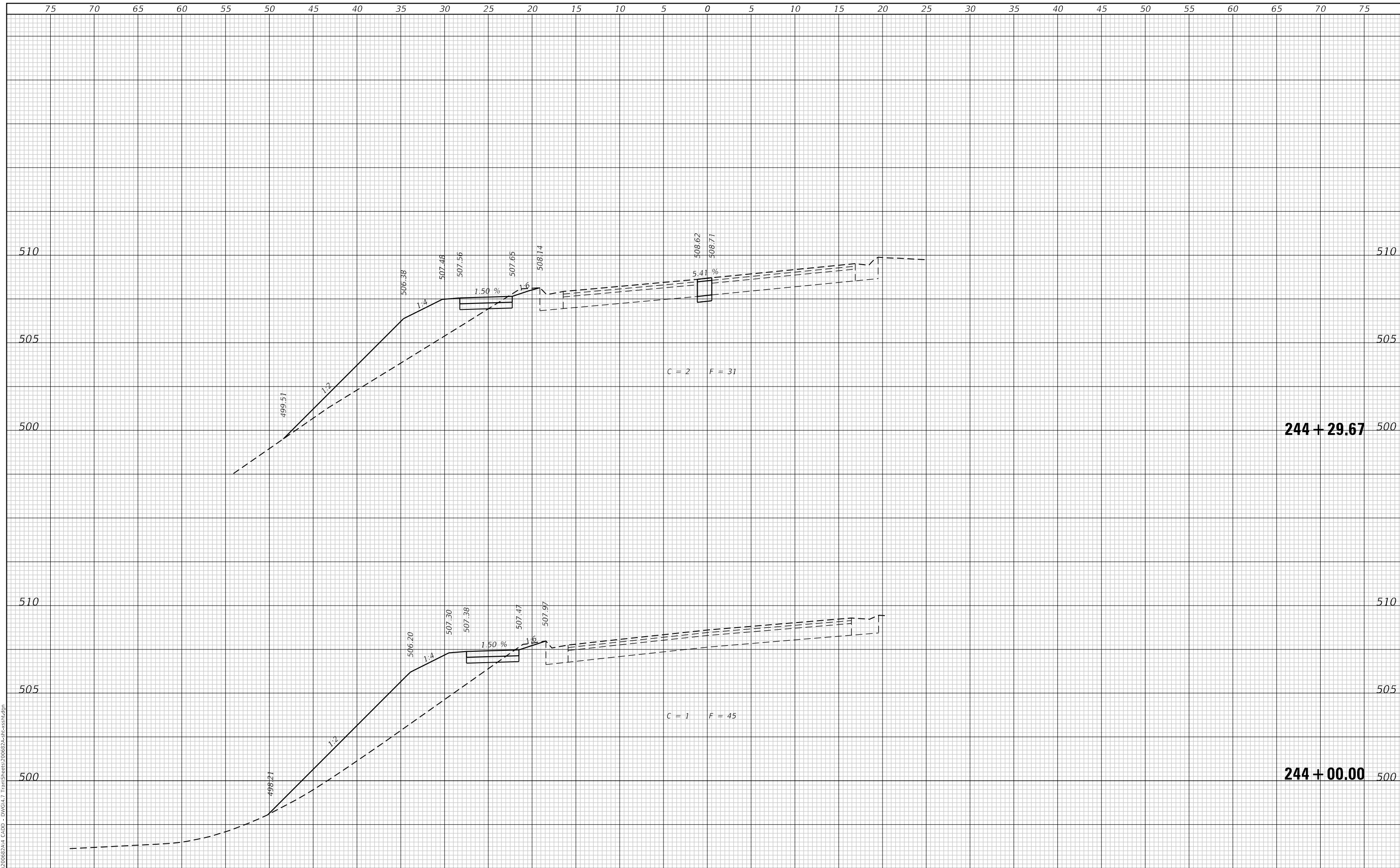
**CROSS SECTIONS  
BOUL AVENUE**

SCALE: 1"=5'    SHEET 2 OF 6 SHEETS    STA. 243+38.53 TO STA. 243+50.00

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 30
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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PLOT DATE	= 7/19/2023

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VILLAGE OF SWANSEA

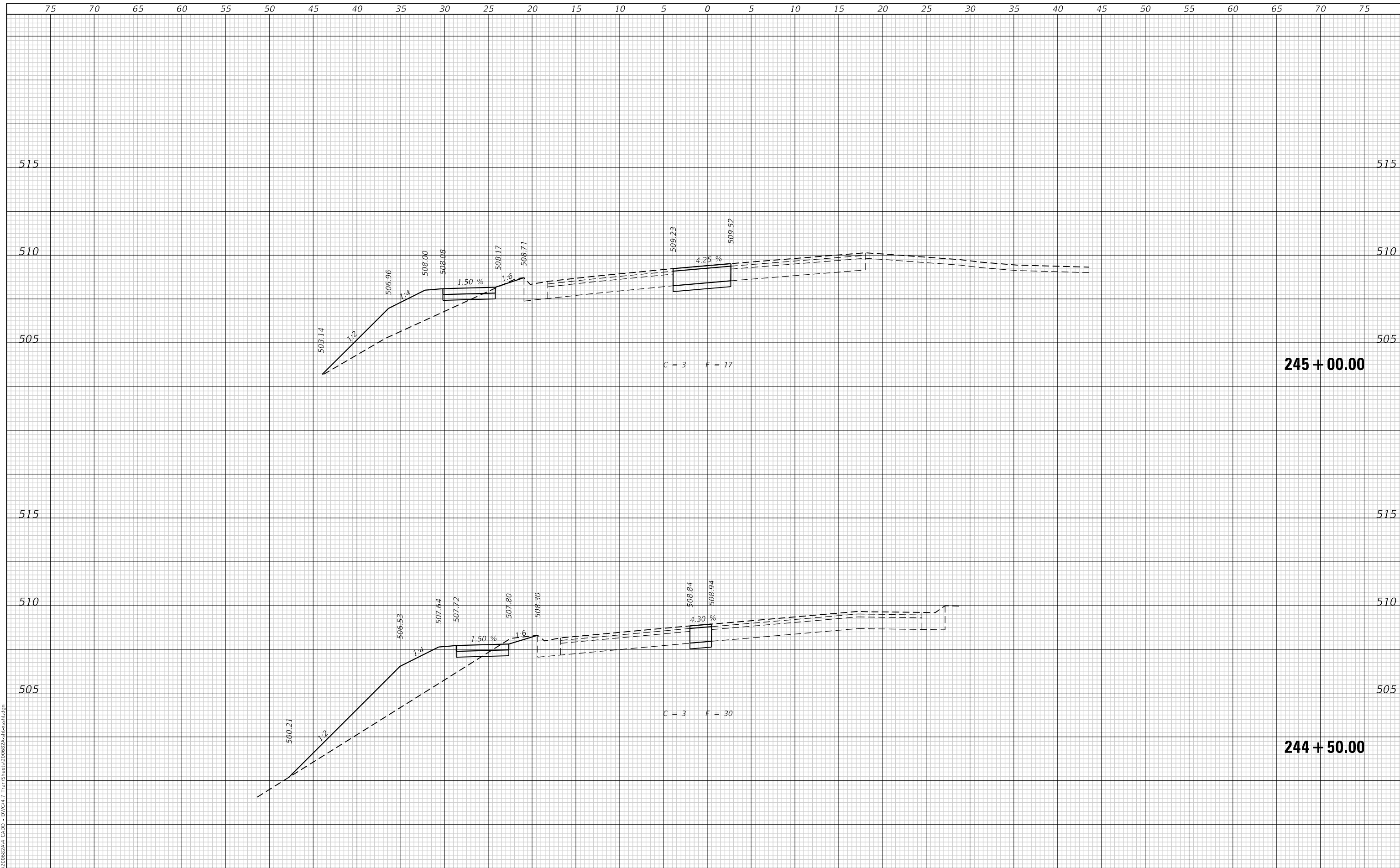
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BOUL AVENUE**

SCALE: 1"=5' SHEET 3 OF 6 SHEETS STA. 244+00.00 TO STA. 244+29.67

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	31
			CONTRACT NO. 97817	
			ILLINOIS FED. AID PROJECT	

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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NOTE BOOK	
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VILLAGE OF SWANSEA

**CROSS SECTIONS  
 BOUL AVENUE**

SCALE: 1"=5' SHEET 4 OF 6 SHEETS STA. 244+50.00 TO STA. 245+00.00

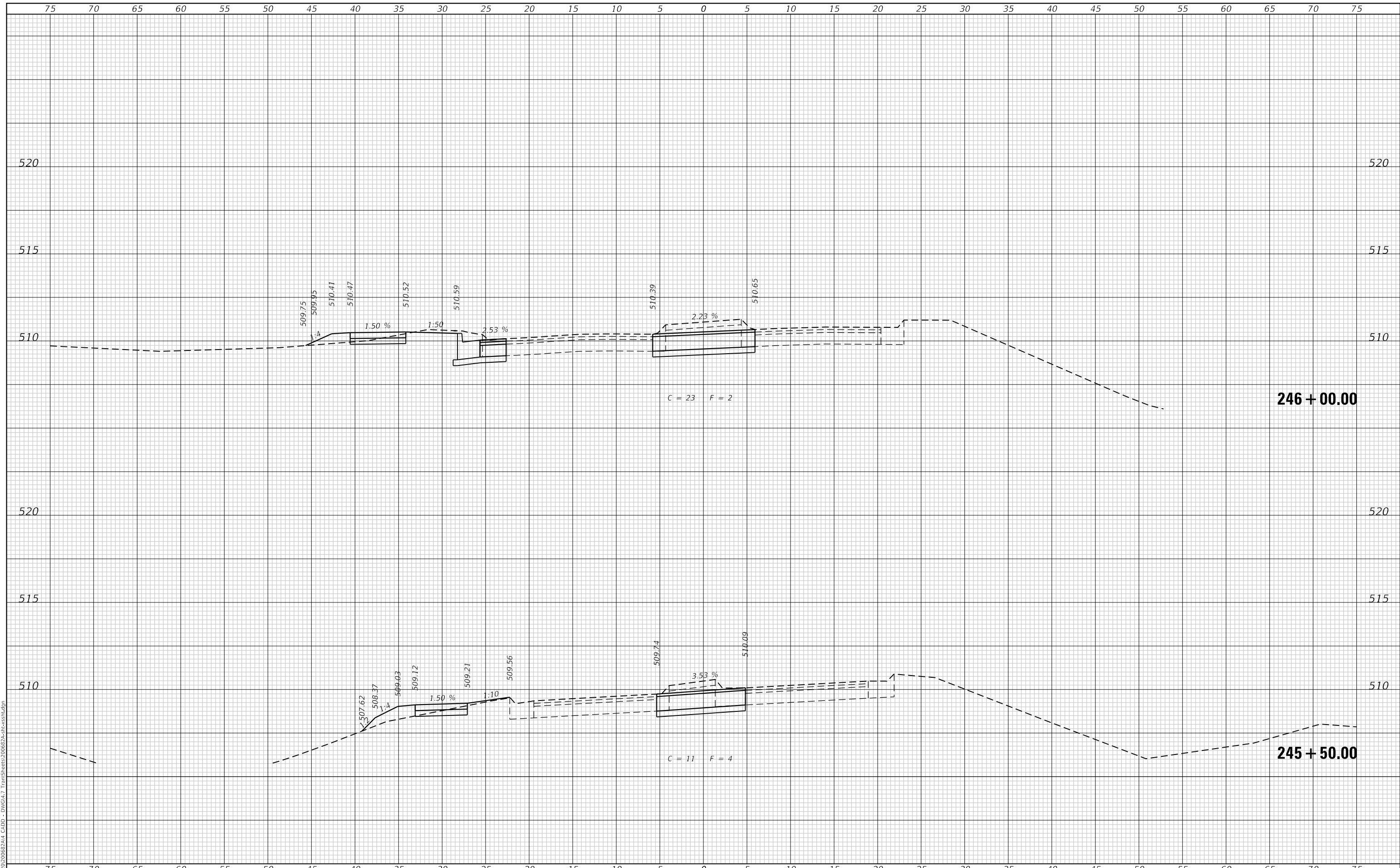
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9293	21-00038-01-BT	ST. CLAIR	42	32
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



DATE	
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SURVEY	
NOTE BOOK	
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NOTE BOOK	
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**VILLAGE OF SWANSEA**

**CROSS SECTIONS  
 BOUL AVENUE**

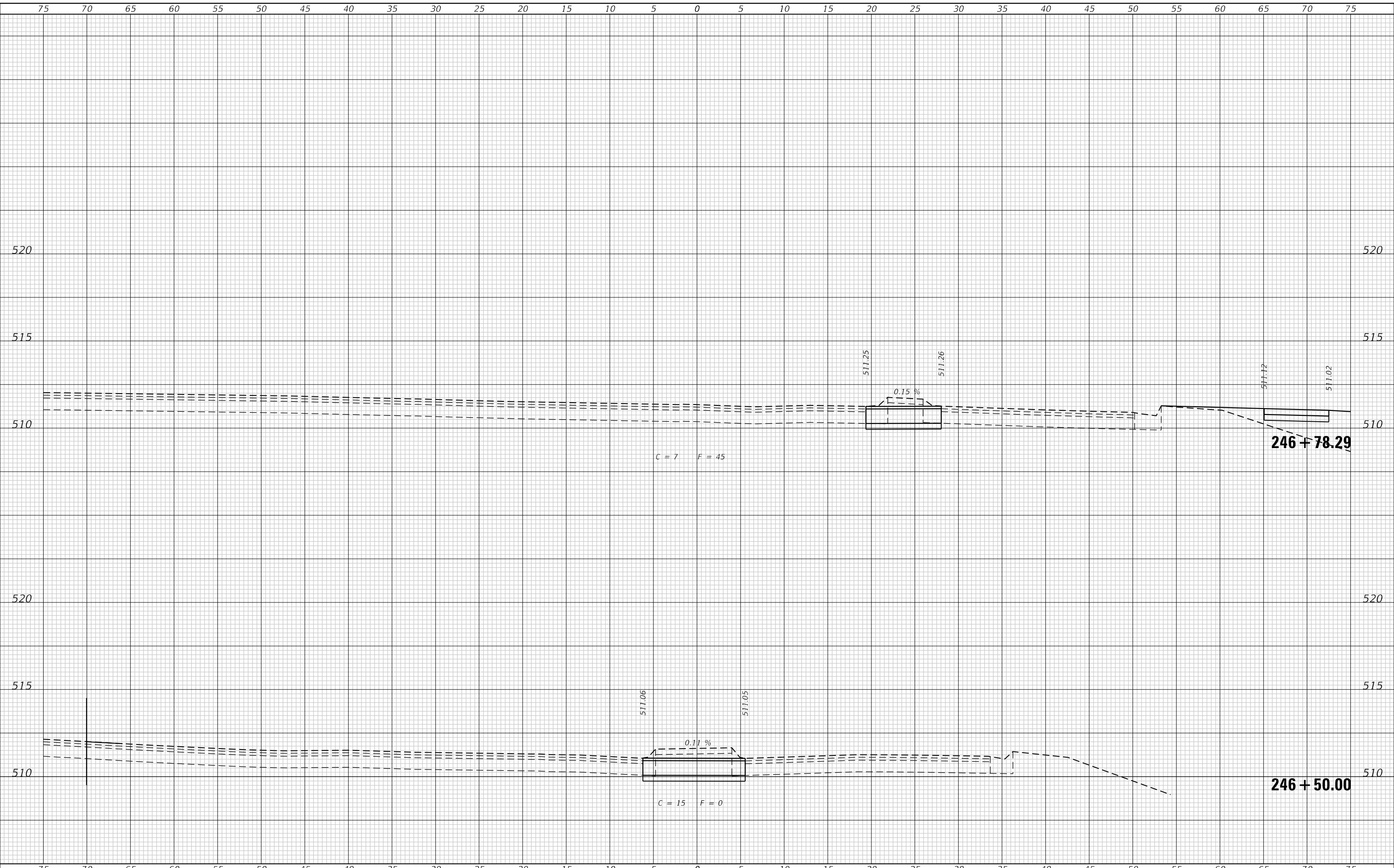
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	33
			CONTRACT NO. 97817	
			ILLINOIS FED. AID PROJECT	

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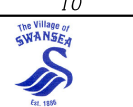
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CROSS SECTIONS  
BOUL AVENUE

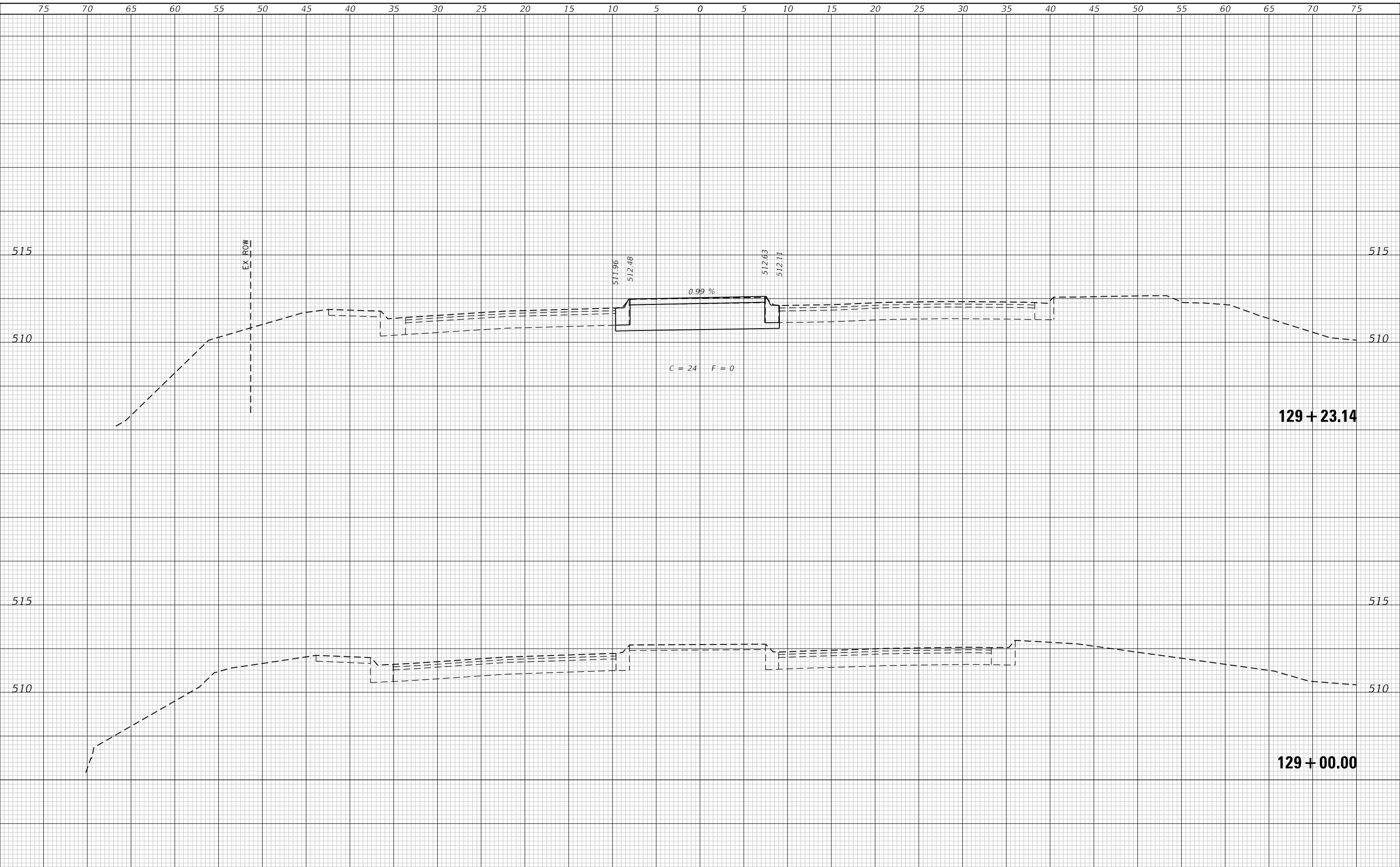
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F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	

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PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 7/19/2023	DATE -	REVISED -



**VILLAGE OF SWANSEA**

**CROSS SECTIONS  
IL 159**

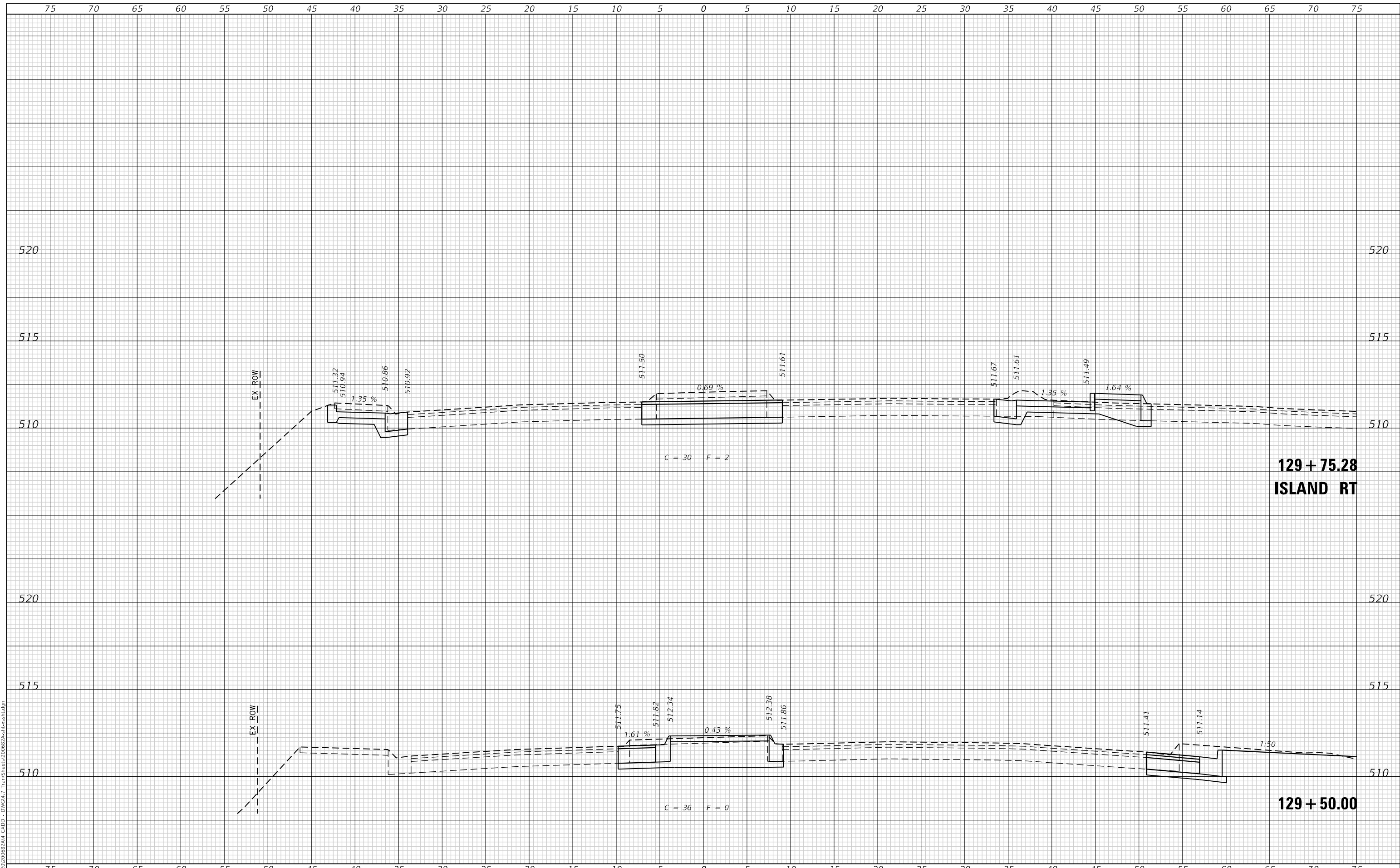
SCALE: 1"=5' SHEET 1 OF 8 SHEETS STA. 129+00.00 TO STA. 129+23.14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	35
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				

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

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

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 GEOSPATIAL SERVICES

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

USER NAME = jstein	DESIGNED - NAN	REVISED -
	DRAWN - NAN	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 7/19/2023	DATE -	REVISED -



VILLAGE OF SWANSEA

**CROSS SECTIONS  
 IL 159**

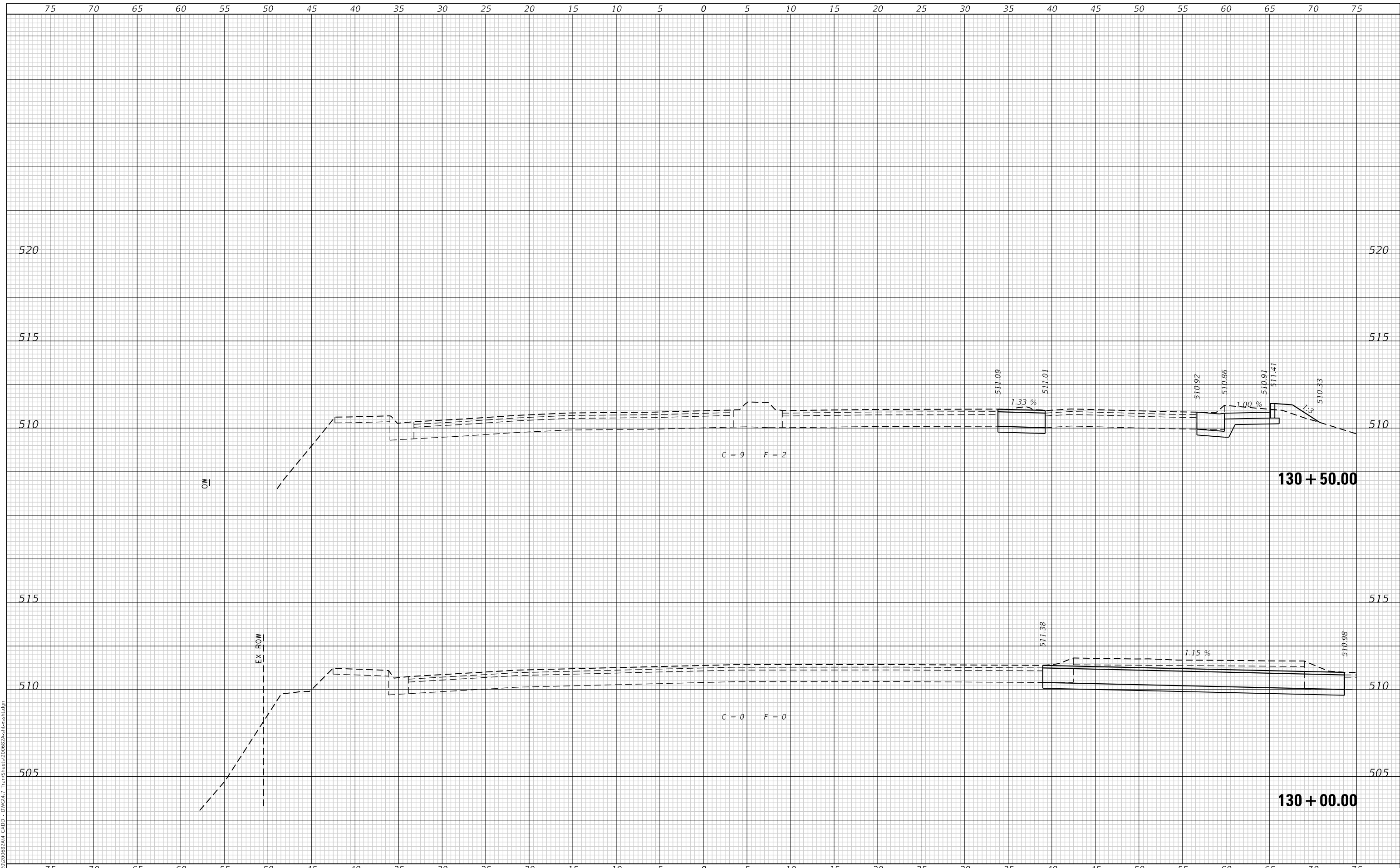
SCALE: 1"=5' SHEET 2 OF 8 SHEETS STA. 129+50.00 TO STA. 129+75.28

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 36
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	

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

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

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 LICENSE NO: 184-001220

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	DRAWN - NAN	REVISED -
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PLOT DATE = 7/19/2023	DATE -	REVISED -



**VILLAGE OF SWANSEA**

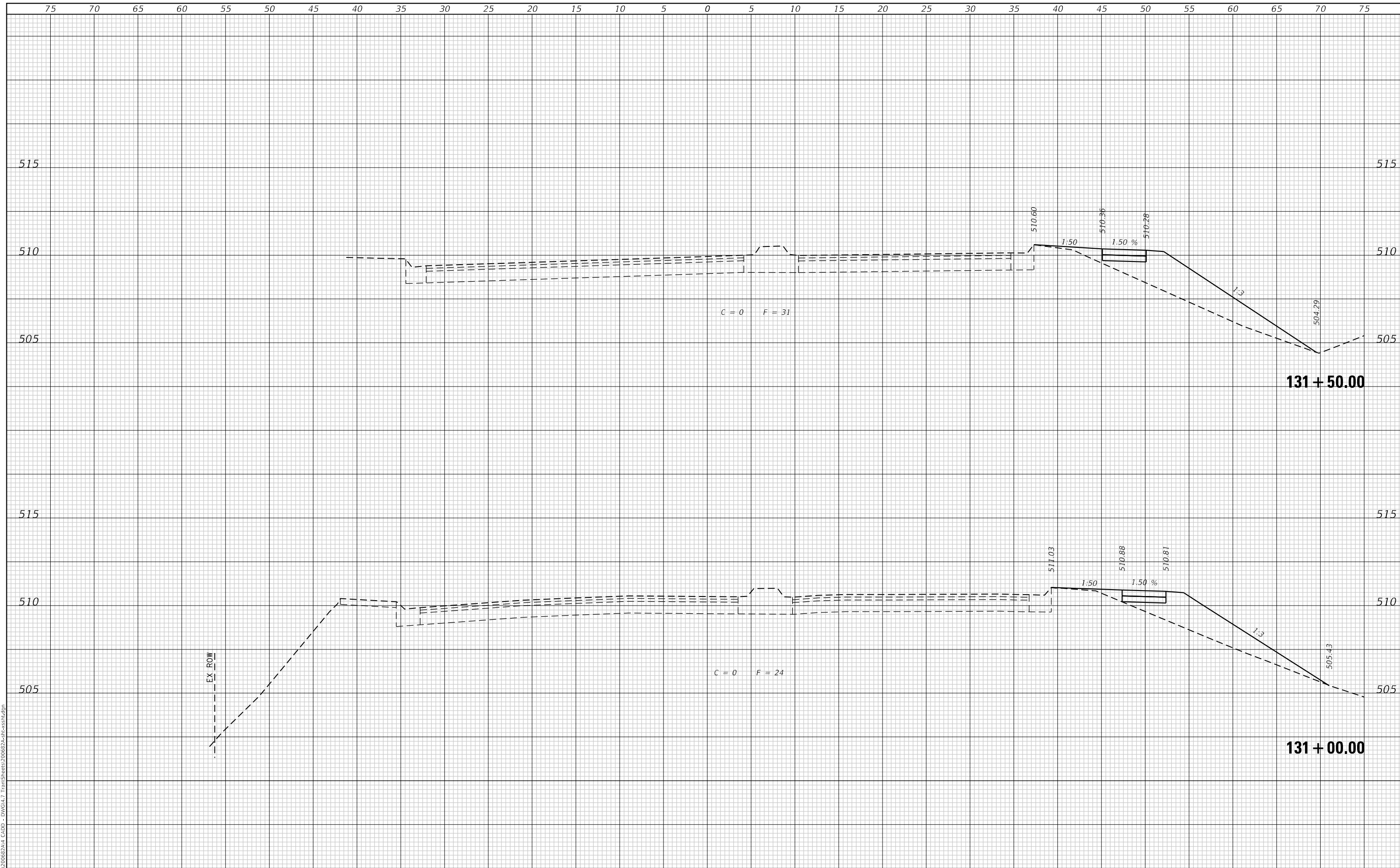
**CROSS SECTIONS  
 IL 159**

SCALE: 1"=5' SHEET 3 OF 8 SHEETS STA. 130+00.00 TO STA. 130+50.00

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 37
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	

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

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

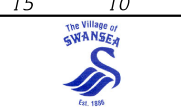


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LICENSE NO: 184-001220

USER NAME = jstein	DESIGNED - NAN	REVISED -
	DRAWN - NAN	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 7/19/2023	DATE -	REVISED -



**VILLAGE OF SWANSEA**

**CROSS SECTIONS  
IL 159**

SCALE: 1"=5'    SHEET 4 OF 8 SHEETS    STA. 131+00.00 TO STA. 131+50.00

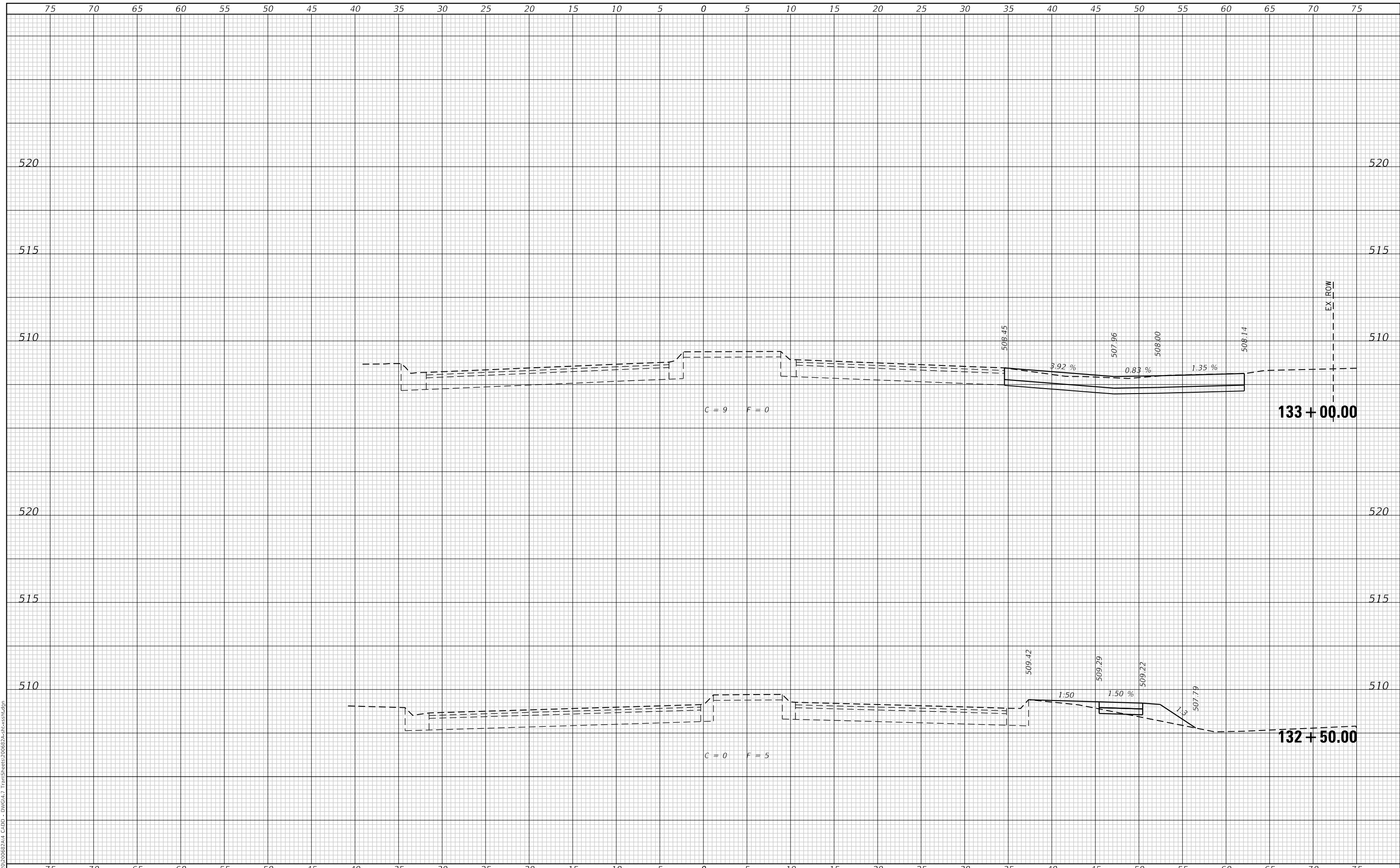
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9293	21-00038-01-BT	ST. CLAIR	42	38
CONTRACT NO. 97817				
ILLINOIS FED. AID PROJECT				



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

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

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USER NAME = jstein	DESIGNED - NAN	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN - NAN	REVISED -
PLOT DATE = 7/19/2023	CHECKED - JWS	REVISED -
	DATE -	REVISED -



**VILLAGE OF SWANSEA**

**CROSS SECTIONS  
 IL 159**

SCALE: 1"=5'    SHEET 6 OF 8 SHEETS    STA. 132+50.00 TO STA. 133+00.00

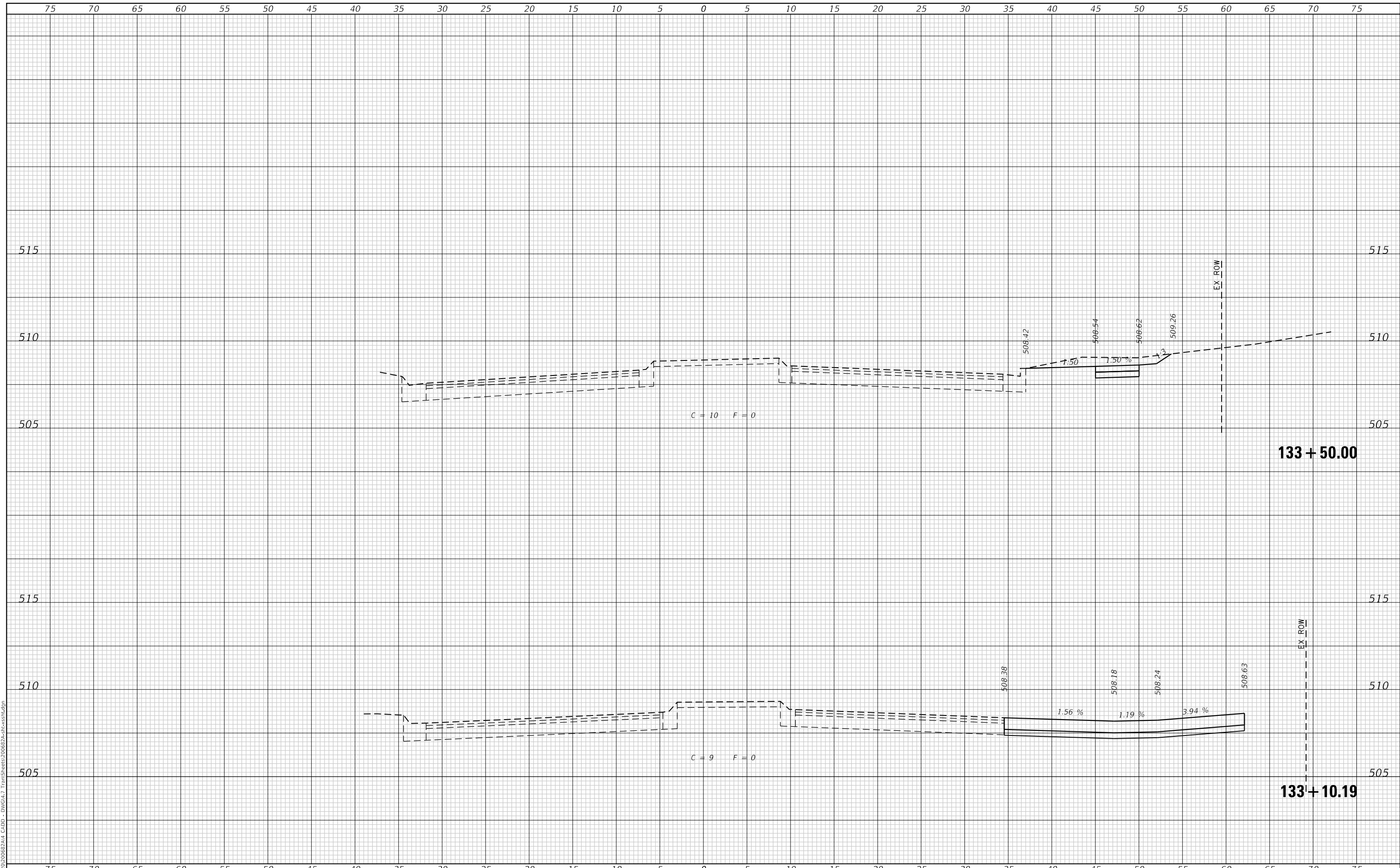
F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	



FINAL SURVEY NO.	SURVEYED AREAS	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS	DATE

MODEL: Defnair  
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 LICENSE NO: 184-001220

USER NAME = jstein	DESIGNED - NAN	REVISED -
	DRAWN - NAN	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 7/19/2023	DATE -	REVISED -



VILLAGE OF SWANSEA

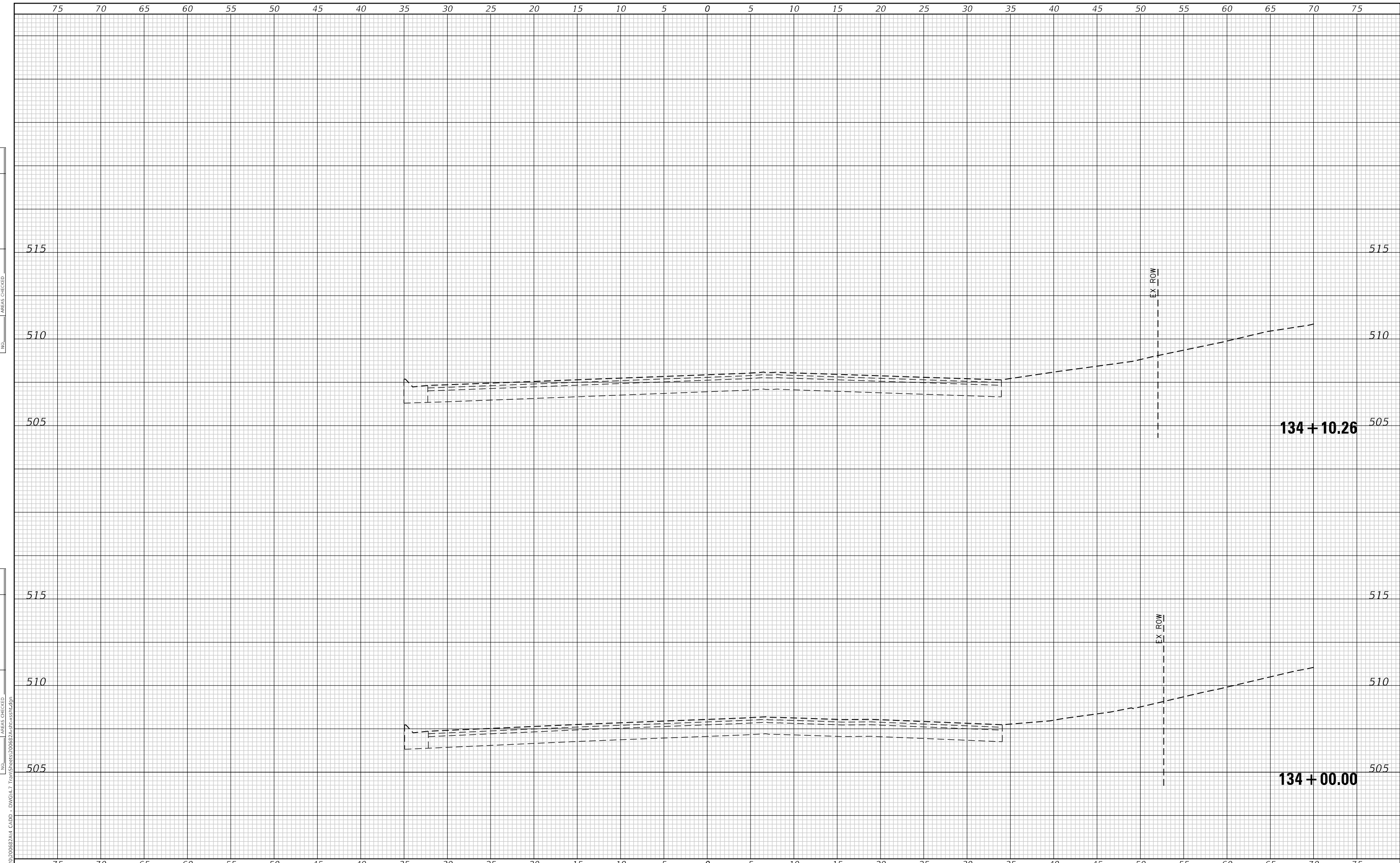
**CROSS SECTIONS  
 IL 159**

SCALE: 1"=5' SHEET 7 OF 8 SHEETS STA. 133+10.19 TO STA. 133+50.00

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 41
CONTRACT NO. 97817			ILLINOIS FED. AID PROJECT	

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

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



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 LICENSE NO: 184-001220

USER NAME = jstein	DESIGNED - NAN	REVISED -
	DRAWN - NAN	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 7/19/2023	DATE -	REVISED -



**VILLAGE OF SWANSEA**

**CROSS SECTIONS  
 IL 159**

SCALE: 1"=5'    SHEET 8 OF 8 SHEETS    STA. 134+00.00 TO STA. 134+10.26

F.A.U. RTE. 9293	SECTION 21-00038-01-BT	COUNTY ST. CLAIR	TOTAL SHEETS 42	SHEET NO. 42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97817	