

MUN. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8072A & 922	21-00031-00-RS	MADISON	28	1
ILLINOIS			CONTRACT NO. 97843	

PLANS FOR PROPOSED COUGAR AND JUNCTION IMPROVEMENTS

VILLAGE OF GLEN CARBON
 MUN 8072A & MUN 922
 SECTION: 21-00031-00-RS
 PROJECT NO.: 3TKA(704)
 JOB NO.: C-98-006-25
 MADISON COUNTY
 LOCAL AND FEDERAL FUNDS

INDEX OF SHEETS

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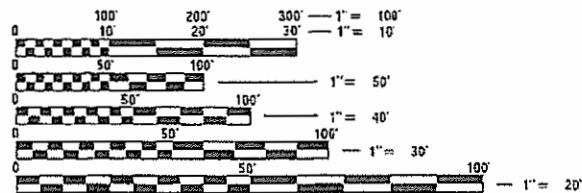
LIST OF HIGHWAY STANDARDS

SEE SHEET 2 FOR LIST OF HIGHWAY STANDARDS

DESIGN DESIGNATION

ROUTE NUMBER MUN 8072A (COUGAR DRIVE) & MUN 922 (JUNCTION DRIVE)

ROADWAY CLASSIFICATION = MINOR COLLECTOR
 DESIGN SPEED = 30 MPH
 ADT (2021) = 3650 VPD
 ADT (2023) = 3725 VPD

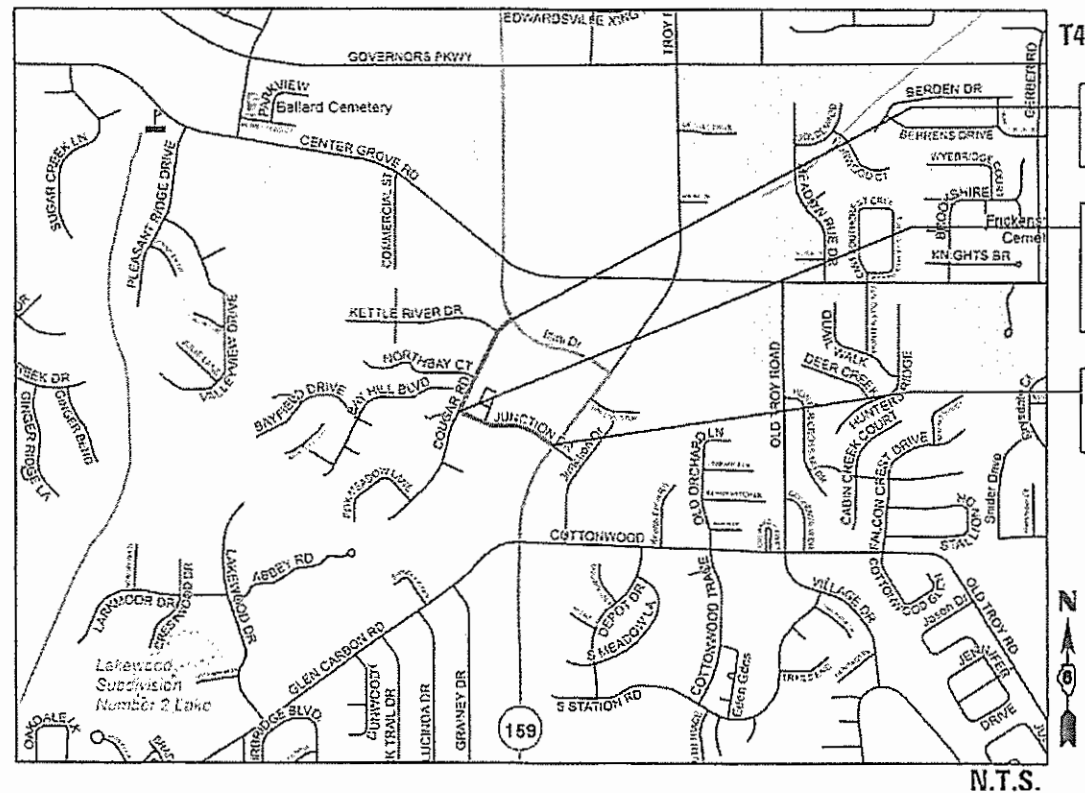


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PLANS PREPARED BY:

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-C01220
 License Expires: 04/30/2025

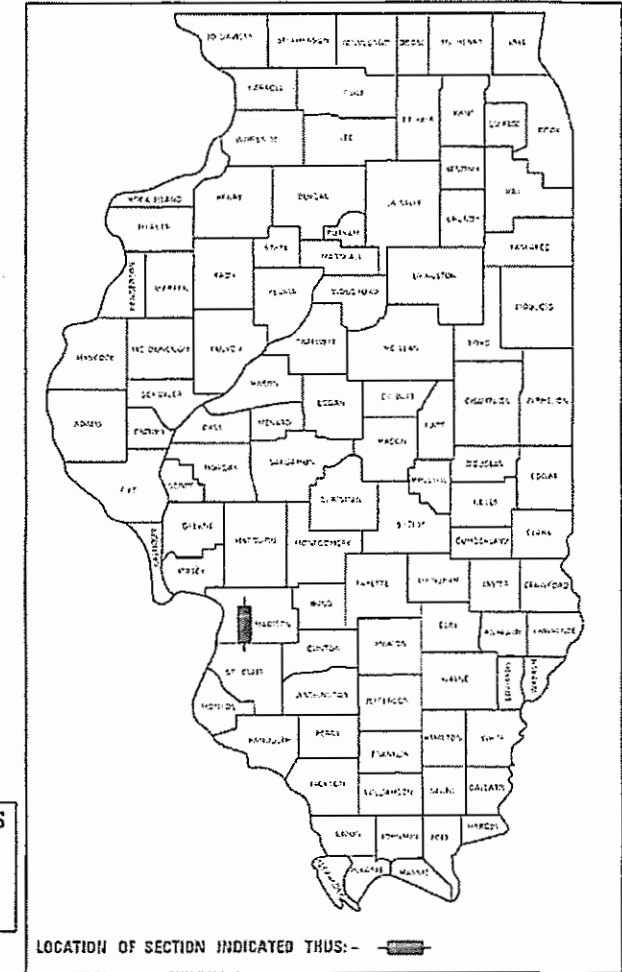


END IMPROVEMENTS COUGAR DRIVE 111 + 12.27
 BEGIN IMPROVEMENTS COUGAR DRIVE 100 + 30.43
 JUNCTION DRIVE 200 + 13.11
 END IMPROVEMENTS JUNCTION DRIVE 210 + 01.39

GROSS LENGTH = 2070.12 FT. = 0.392 MILE (TOTAL)
 COUGAR DRIVE = 1081.84 FT. = 0.205 MILE
 JUNCTION DRIVE = 988.28 FT. = 0.187 MILE
 NET LENGTH = 2070.12 FT. = 0.392 MILE (TOTAL)
 COUGAR DRIVE = 1081.84 FT. = 0.205 MILE
 JUNCTION DRIVE = 988.28 FT. = 0.187 MILE



Kevin M. Ostermiller
 KEVIN M. OSTERMILLER, P.E. EXPIRATION DATE 7/8/2024
 LICENSE NO. 062-066764 11-30-2025



LOCATION OF SECTION INDICATED THUS: - [Symbol]

VILLAGE OF GLEN CARBON
 STATE OF ILLINOIS

APPROVED: *[Signature]* 7-16-24
 MAYOR, VILLAGE OF GLEN CARBON

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PASSED: 7/31/2024
[Signature]
 DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL

ANY AREA DISTURBED OUTSIDE CONSTRUCTION LIMITS DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING ROADWAY FEATURES, SUCH AS CULVERTS, PAVEMENT, FENCING, ETC., LOCATED WITHIN THE CONSTRUCTION LIMITS ARE TO REMAIN UNLESS NOTED OTHERWISE ON THE PLANS.

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.

THE VILLAGE OF GLEN CARBON WILL PROVIDE ALL REFERENCE POINTS OR BENCHMARKS AS NEEDED BY THE CONTRACTOR TO CONSTRUCT THE IMPROVEMENTS AS PROPOSED HEREIN.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VILLAGE OF GLEN CARBON AT LEAST SEVENTY TWO (72) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.

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.

TREE REMOVAL

TREES WILL BE REMOVED WITHIN THE LIMITS OF CONSTRUCTION AS STATED IN THE SPECIAL PROVISIONS. ANY TREES TO BE REMOVED ARE MARKED WITH A "X" IN THE PLANS.

STREET SIGNS

ALL STREET SIGNS TO BE RELOCATED SHALL BE PROVIDED TEMPORARY LOCATIONS WHEN REQUIRED AT NO EXTRA COST TO THE PROJECT. FINAL RELOCATED LOCATIONS SHALL BE SPECIFIED DURING CONSTRUCTION PER THE FIELD ENGINEER.

ANY SIGNS DAMAGED DURING REMOVAL, STORAGE, OR RE-ERECTION SHALL BE REPLACED AS PART OF THIS CONTRACT.

SEEDING AND MULCH

ALL EARTH SURFACES DISTURBED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE SEEDED AND MULCHED.

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 ENSURE 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/HER EXPENSE.

SIGNS

ALL CONSTRUCTION WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE.

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

*ATT DISTRIBUTION

*CHARTER COMMUNICATIONS

*VILLAGE OF GLEN CARBON

*AMEREN IP

*IL AMERICAN WATER

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.

THE ENGINEER AND OWNER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE 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 FACILITIES OR APPURTENANCES, WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION, SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL/ADJUSTMENTS AND ADJUST HIS OPERATIONS IN ORDER THAT THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THE PROJECT MAY PROGRESS IN A REASONABLE MANNER.

PROPERTY OWNERS

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.

PRIOR TO CONSTRUCTING ANY ENTRANCE, THE PROPERTY OWNER WILL BE NOTIFIED IN WRITING BY THE CONTRACTOR, INFORMING THEM OF CONSTRUCTION AND ESTIMATED DATES CONSTRUCTION WILL TAKE PLACE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	*	*
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGG	MIXTURE "C"	

*SEE SPEC BOOK SECTION 1031

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420101-07	24' JOINTED PCC PAVEMENT
420106-07	36' JOINTED PCC PAVEMENT
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMP FOR SIDEWALKS
424026-04	ENTRANCE ALLEY PEDESTRIAN CROSSINGS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

838001-01	BREAKAWAY DEVICES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

REMOVAL ITEMS

COMBINATION CURB AND GUTTER REMOVAL SHALL INCLUDE REMOVAL OF DIFFERENT KINDS OF CURB AND GUTTER NO MATTER THE TYPE OR SIZE.

COMMITMENTS

NONE

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/INCH
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE

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TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = kostermliller	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/7/2024	CHECKED -	REVISED -
	DATE -	REVISED -



VILLAGE OF GLEN CARBON

GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS

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

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	2
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
# 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	52
# 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	136
20200100	EARTH EXCAVATION	CU YD	1155
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
25000110	SEEDING, CLASS 1A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000400	PERIMETER EROSION BARRIER	FOOT	140
28000500	INLET AND PIPE PROTECTION	EACH	3
* 31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	1296
* 35100100	AGGREGATE BASE COURSE, TYPE A	TON	389
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4999
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2490
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1350
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	871
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	433
* 42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	250
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	190

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	12638
42400800	DETECTABLE WARNINGS	SQ FT	168
44000100	PAVEMENT REMOVAL	SQ YD	2469
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	2201
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	187
44000300	CURB REMOVAL	FOOT	9
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	214
* 56109210	WATER VALVES TO BE ADJUSTED	EACH	4
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	142
60609800	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18	FOOT	46
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	27
# 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100
# 66900530	SOIL DISPOSAL ANALYSIS	EACH	1
# 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
# 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
# 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2
67100100	MOBILIZATION	L SUM	1
# 72000100	SIGN PANEL - TYPE 1	SQ FT	13
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5
# 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	32
# 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
# 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4036
# 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	485
# 80300100	LOCATING UNDERGROUND CABLE	FOOT	273
# 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5
# 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	59
# 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	100
# 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	24
# 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
# 87900200	DRILL EXISTING HANDHOLE	EACH	1
* 89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
# 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	100
# 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* X0327618	LANDSCAPING (SPECIAL)	L SUM	1
* X1700086	POTHOLING	EACH	15
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* X7240502	RELOCATE SIGN, SPECIAL	EACH	1
# * X8140115	HANDHOLE TO BE ADJUSTED	EACH	3
# * X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	1
# * X8860105	DETECTOR LOOP REPLACEMENT	FOOT	362

SPECIALTY ITEM

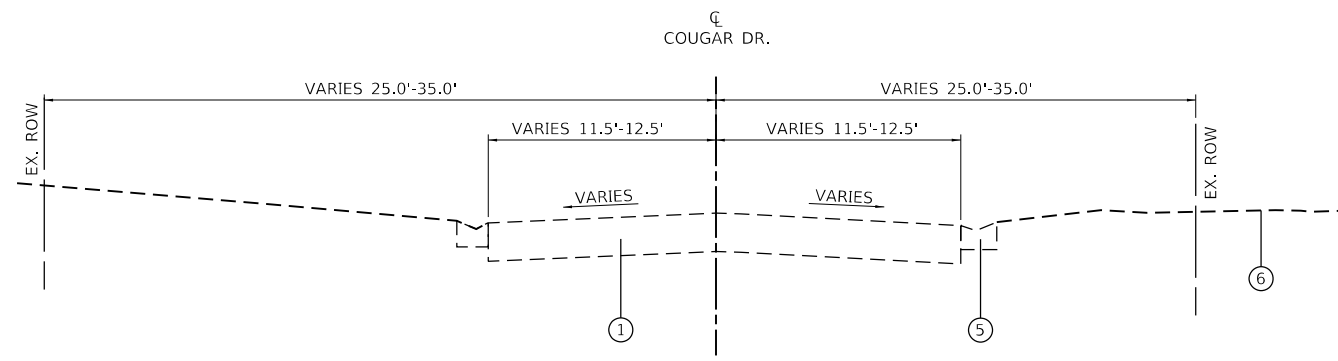
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	PLOT DATE = 12-13/2024	CHECKED -	REVISED -			CONTRACT NO. 97843								
	DATE -	REVISED -	SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.											

ILLINOIS FED. AID PROJECT

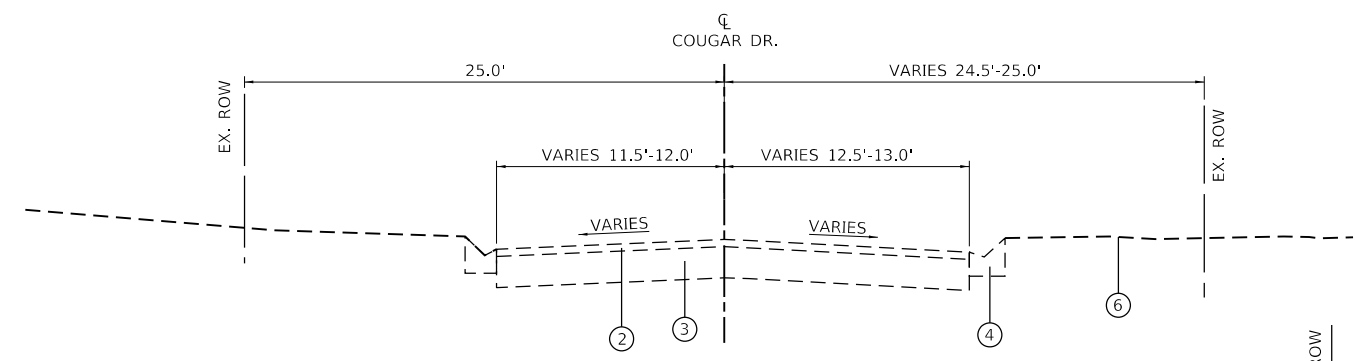
LEGEND

- ① EX. CONCRETE PAVEMENT
 - ② EX. HMA SURFACE
 - ③ EX. HMA SUBBASE
 - ④ EX. CURB AND GUTTER
 - ⑤ EX. GUTTER
 - ⑥ EX. GROUND
 - ⑦ PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70, 1.75"
 - ⑧ PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7"
 - ⑨ PR. PRIME COAT
 - ⑩ PR. TACK COAT
 - ⑪ PR. AGGREGATE BASE COURSE, TYPE A, 3"
 - ⑫ PR. SUBBASE GRANULAR MATERIAL, TYPE A, 10"
 - ⑬ PR. PCC SIDEWALK, 4"
- PAVEMENT REMOVAL



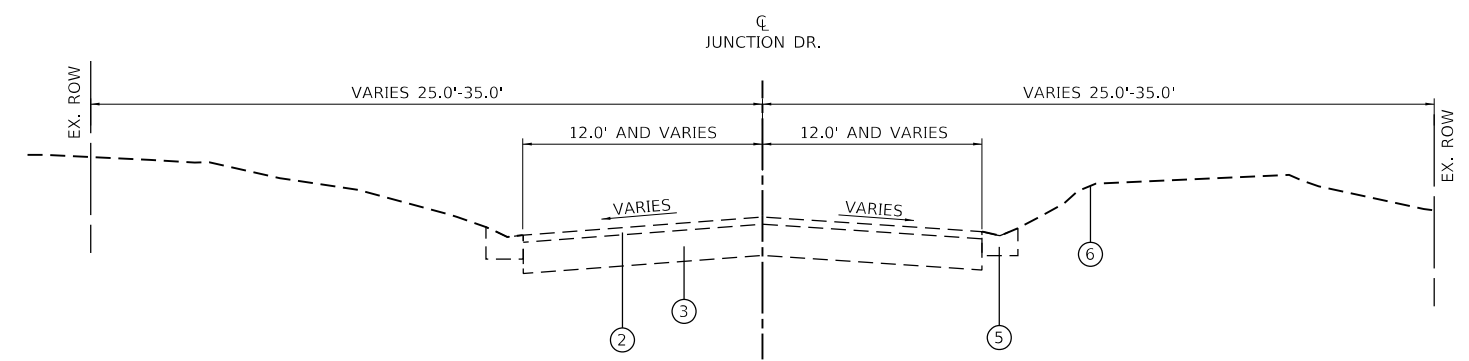
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STA. 101+06.11 TO STA. 108+26.76



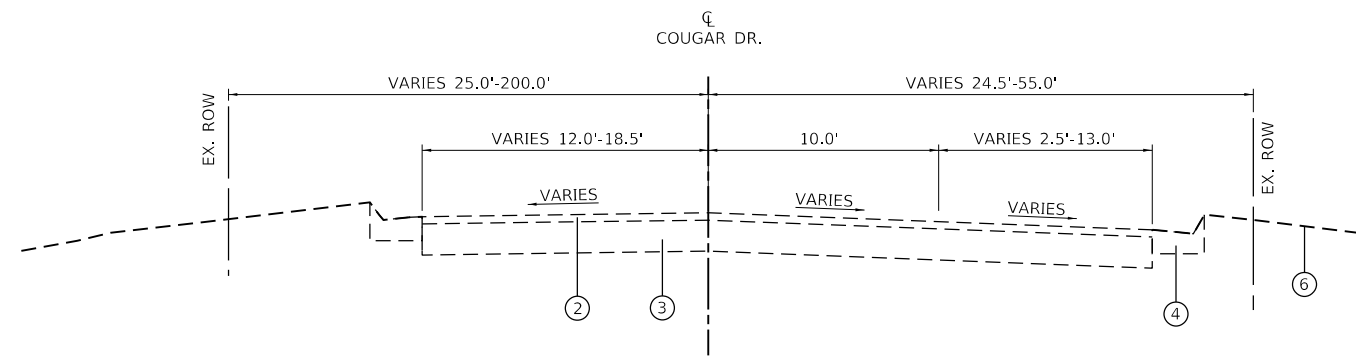
EXISTING TYPICAL SECTION - COUGAR DRIVE

STA. 108+26.76 TO STA. 109+00.00



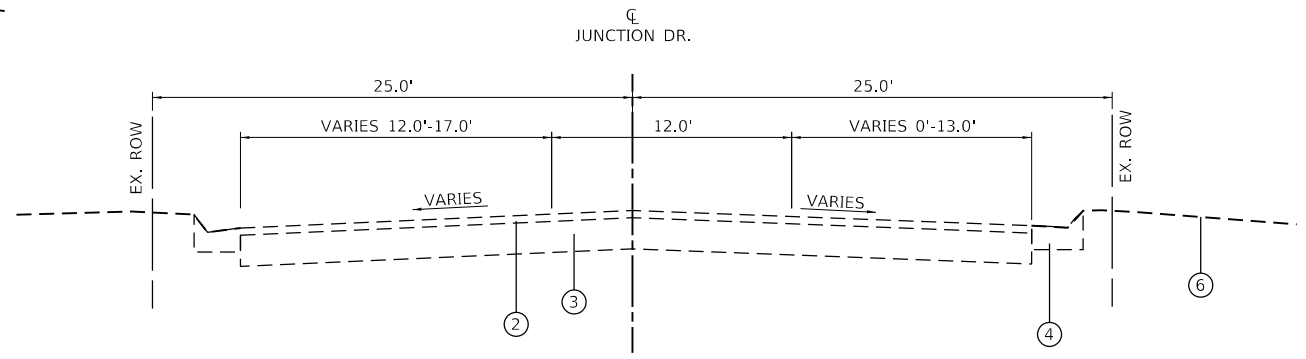
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STA. 200+53.21 TO STA. 207+86.24



EXISTING TYPICAL SECTION - COUGAR DRIVE

STA. 109+00.00 TO STA. 111+12.27



EXISTING TYPICAL SECTION - JUNCTION DRIVE

STA. 207+86.24 TO STA. 210+01.39

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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = kostermiller
 PLOT SCALE = 10.0000 ' / in.
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DESIGNED -	REVISD -
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DATE -	REVISD -



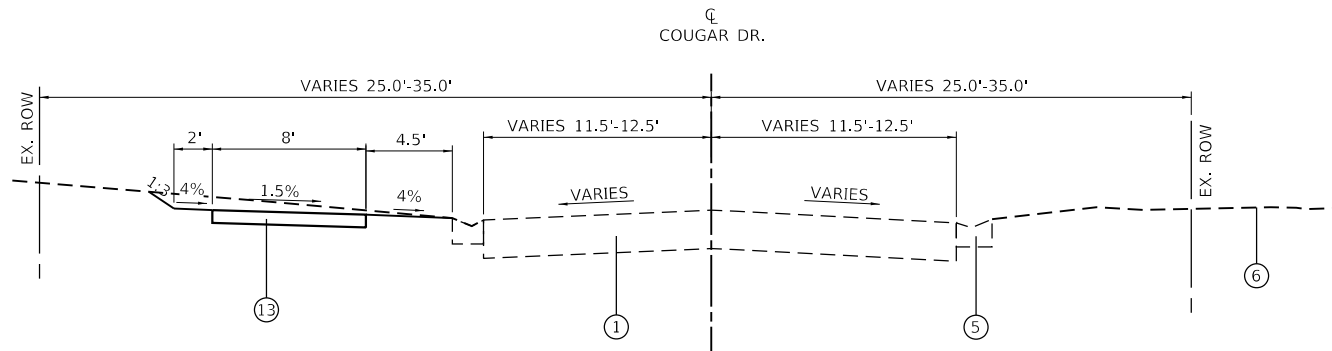
VILLAGE OF GLEN CARBON

EXISTING TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA.	TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	4
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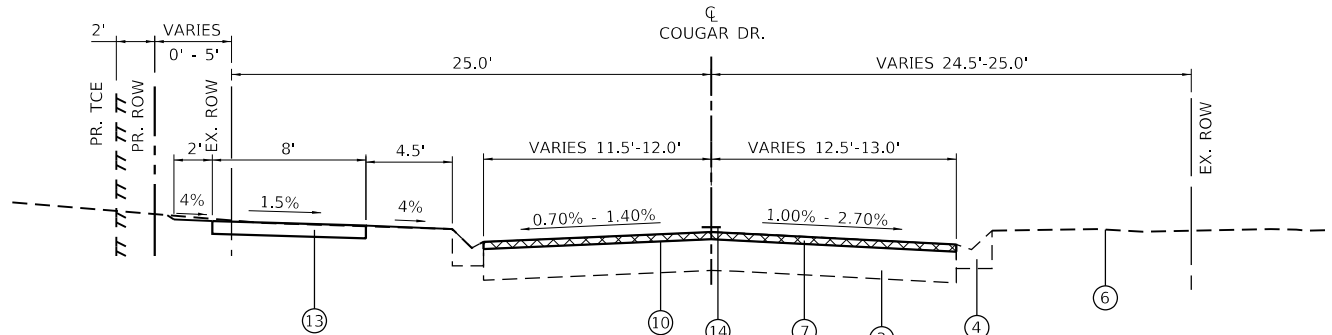
LEGEND

- ① EX. CONCRETE PAVEMENT
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 - ④ EX. CURB AND GUTTER
 - ⑤ EX. GUTTER
 - ⑥ EX. GROUND
 - ⑦ PR. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70, 1.75"
 - ⑧ PR. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7"
 - ⑨ PR. PRIME COAT
 - ⑩ PR. TACK COAT
 - ⑪ PR. AGGREGATE BASE COURSE, TYPE A, 3"
 - ⑫ PR. SUBBASE GRANULAR MATERIAL, TYPE A, 10"
 - ⑬ PR. PCC SIDEWALK, 4"
 - ⑭ PR. LONGITUDINAL JOINT SEALANT
- PAVEMENT REMOVAL



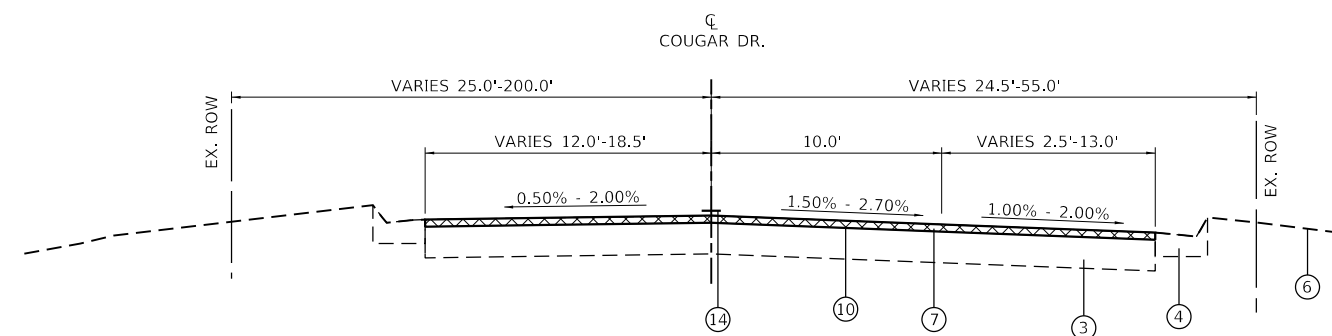
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STA. 101+06.11 TO STA. 108+26.76
(PAVING OMISSION)



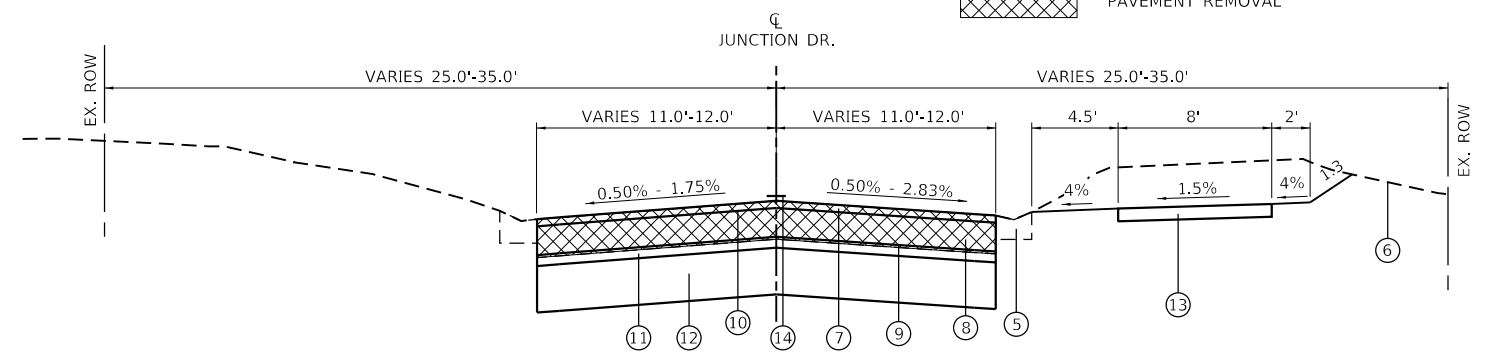
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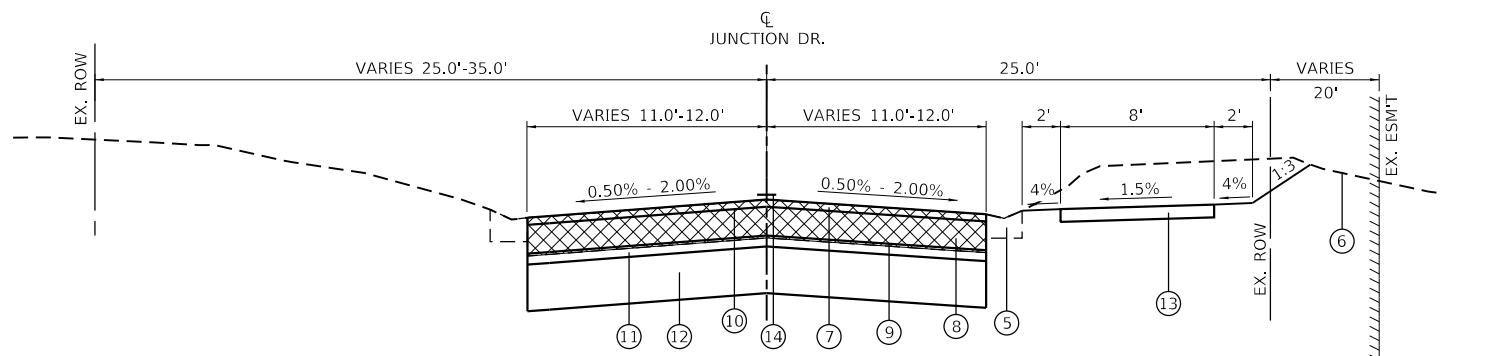
PROPOSED TYPICAL SECTION - COUGAR DRIVE

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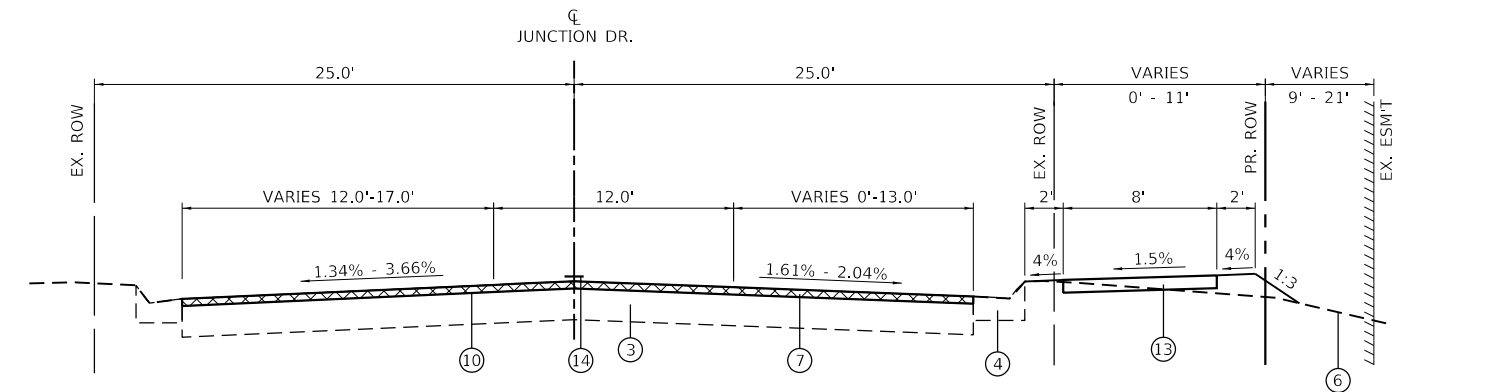
PROPOSED TYPICAL SECTION - JUNCTION DRIVE

STA. 200+13.11 TO STA. 204+63.41



PROPOSED TYPICAL SECTION - JUNCTION DRIVE

STA. 204+63.41 TO STA. 207+86.24



PROPOSED TYPICAL SECTION - JUNCTION DRIVE

STA. 207+86.24 TO STA. 210+01.39

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184-001220

USER NAME = kostermiller	DESIGNED -	REVISED -
PLOT SCALE = 10.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 7/7/2024	CHECKED -	REVISED -
	DATE -	REVISED -



VILLAGE OF GLEN CARBON

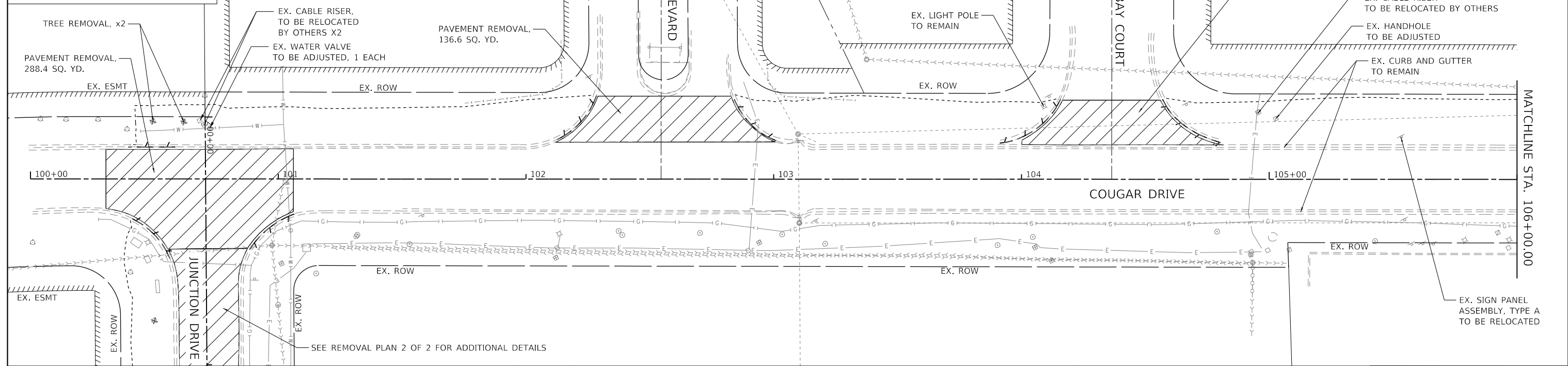
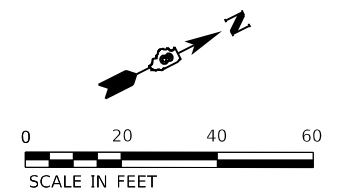
PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	5
CONTRACT NO. 97843				
ILLINOIS		FED. AID PROJECT		

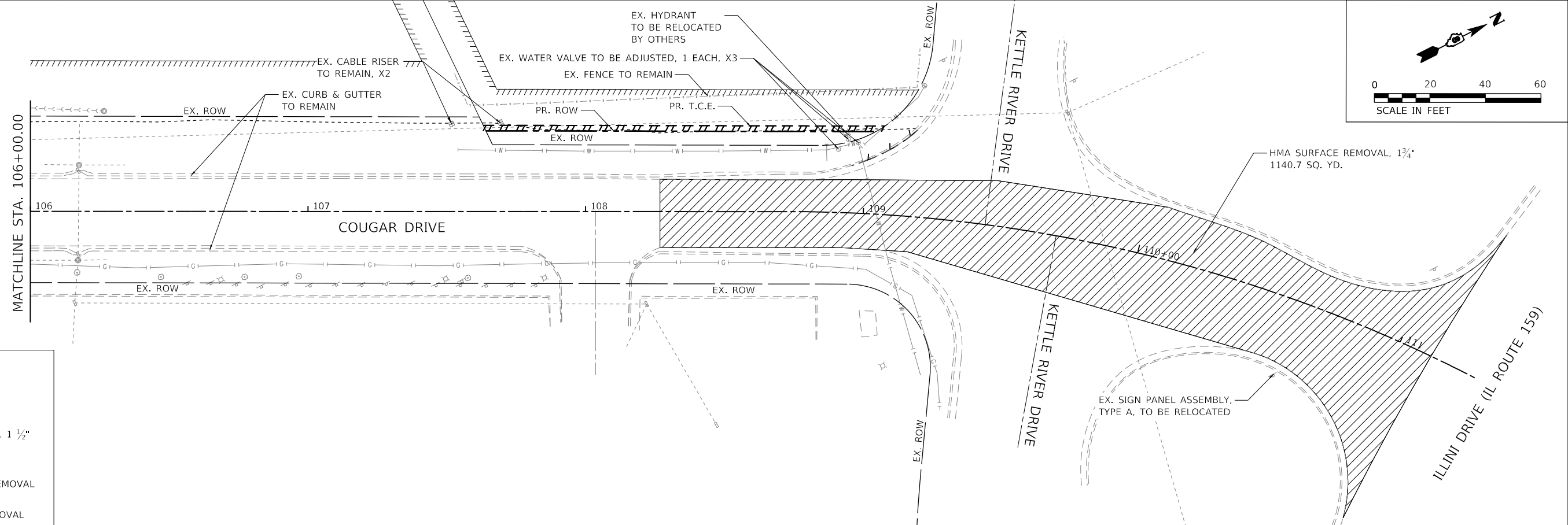
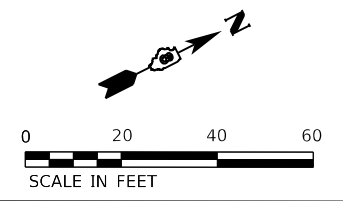
LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 1 1/2"
- TREE REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMB. CURB & GUTTER REMOVAL OR CURB REMOVAL



LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 1 1/2"
- TREE REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- COMB. CURB & GUTTER REMOVAL OR CURB REMOVAL



MODEL: Dwg.rvt
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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = kostermiller
 PLOT SCALE = 40,0000 ' / in.
 PLOT DATE = 7/7/2024

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

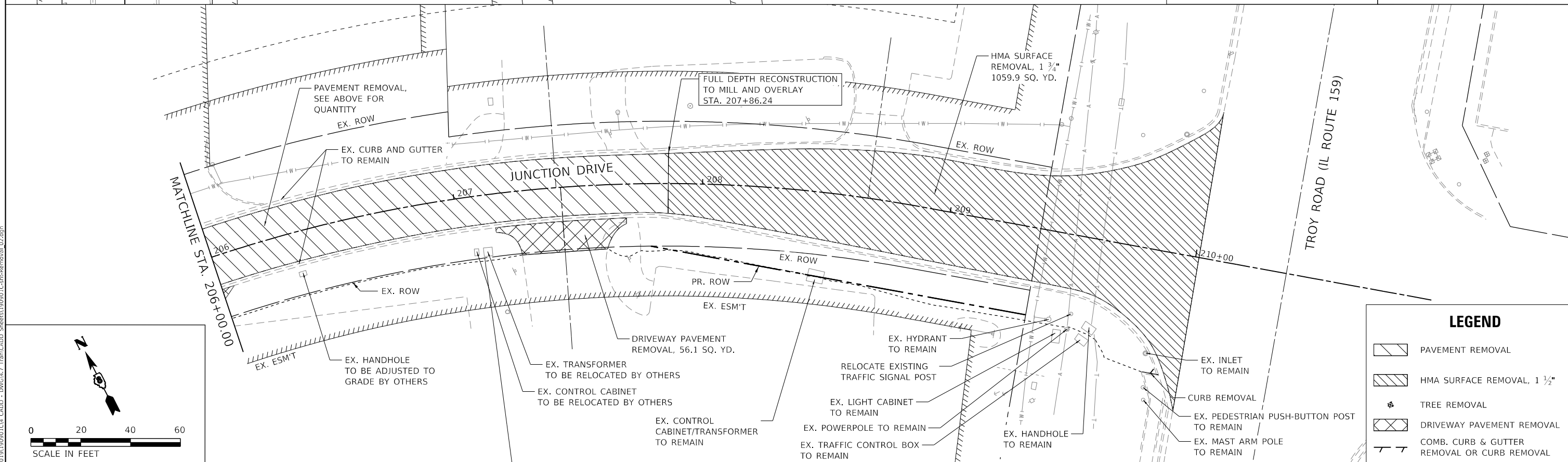
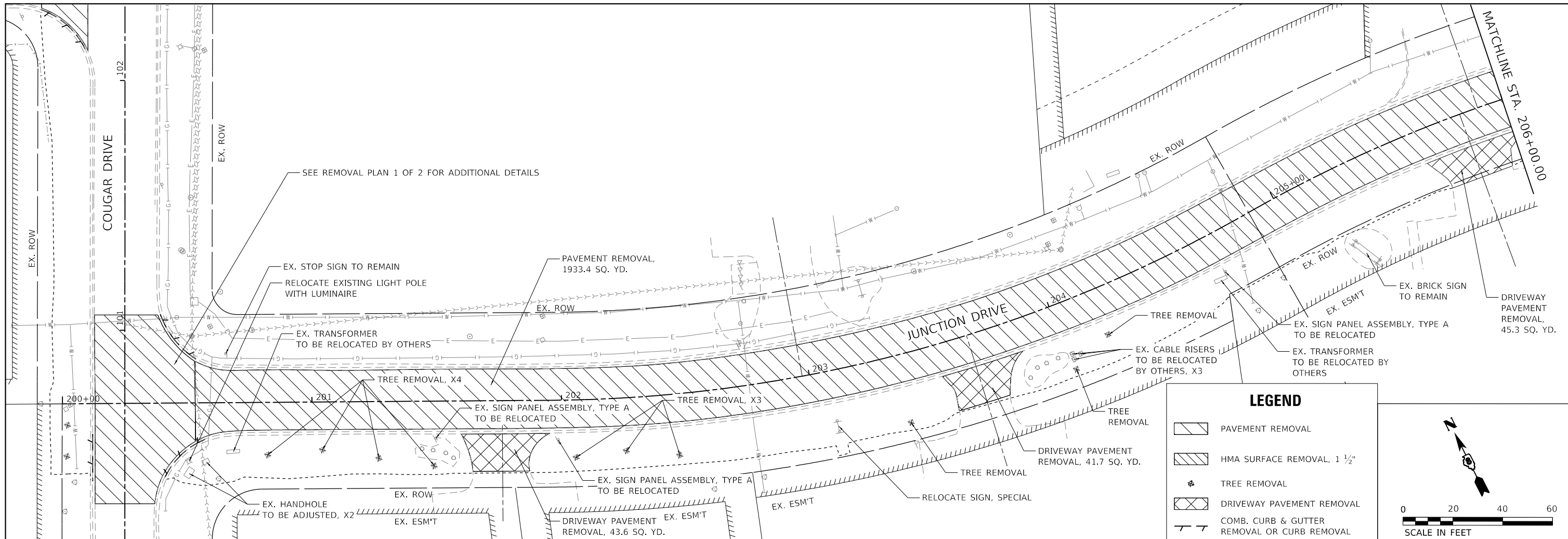


VILLAGE OF GLEN CARBON

**REMOVAL PLAN
COUGAR DRIVE**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 100+30.43 TO STA. 111+12.27

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	7
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



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TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = kostermiller
 PLOT SCALE = 40.0000 ' / in.
 PLOT DATE = 7/7/2024

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -



VILLAGE OF GLEN CARBON

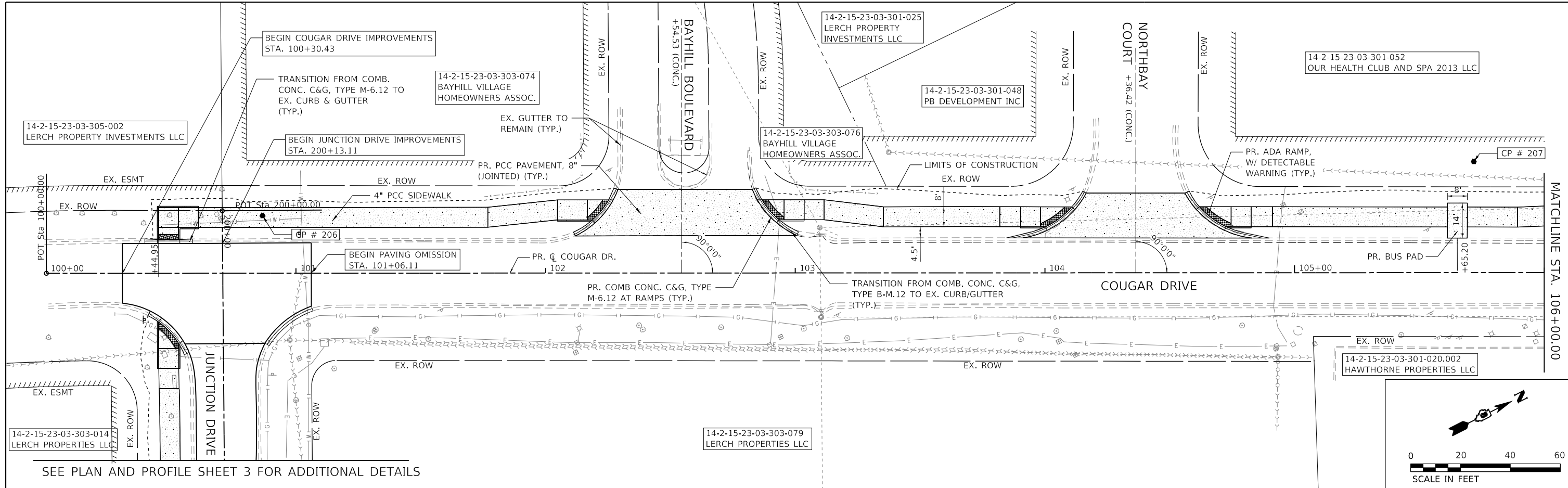
**REMOVAL PLAN
JUNCTION DRIVE**

SCALE: 1"=20'
 SHEET 2 OF 2 SHEETS
 STA. 200+13.11 TO STA. 210+01.39

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	8
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
NO.	



SEE PLAN AND PROFILE SHEET 3 FOR ADDITIONAL DETAILS

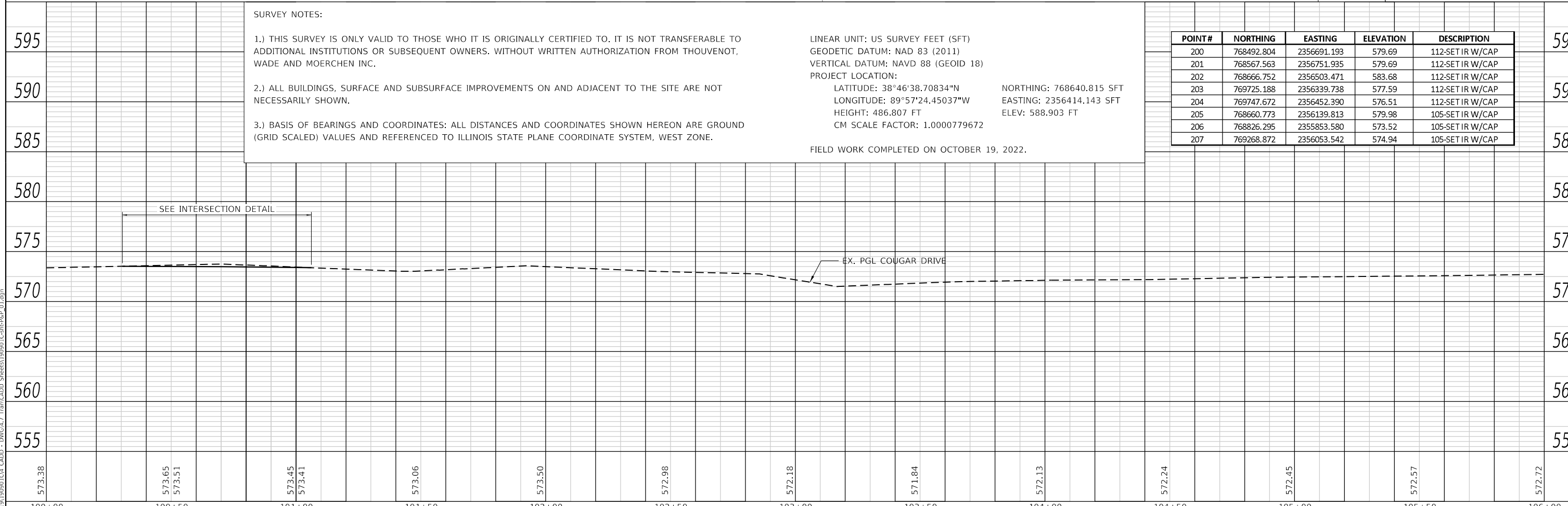
SURVEY NOTES:

- 1.) THIS SURVEY IS ONLY VALID TO THOSE WHO IT IS ORIGINALLY CERTIFIED TO. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. WITHOUT WRITTEN AUTHORIZATION FROM THOUVENOT, WADE AND MOERCHEN INC.
- 2.) ALL BUILDINGS, SURFACE AND SUBSURFACE IMPROVEMENTS ON AND ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN.
- 3.) BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES AND REFERENCED TO ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)
 GEODETIC DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88 (GEOID 18)
 PROJECT LOCATION:
 LATITUDE: 38°46'38.70834"N NORTHING: 768640.815 SFT
 LONGITUDE: 89°57'24.45037"W EASTING: 2356414.143 SFT
 HEIGHT: 486.807 FT ELEV: 588.903 FT
 CM SCALE FACTOR: 1.0000779672

FIELD WORK COMPLETED ON OCTOBER 19, 2022.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	768492.804	2356691.193	579.69	112-SET IR W/CAP
201	768567.563	2356751.935	579.69	112-SET IR W/CAP
202	768666.752	2356503.471	583.68	112-SET IR W/CAP
203	769725.188	2356339.738	577.59	112-SET IR W/CAP
204	769747.672	2356452.390	576.51	112-SET IR W/CAP
205	768660.773	2356139.813	579.98	105-SET IR W/CAP
206	768826.295	2355853.580	573.52	105-SET IR W/CAP
207	769268.872	2356053.542	574.94	105-SET IR W/CAP

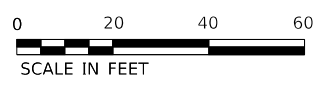
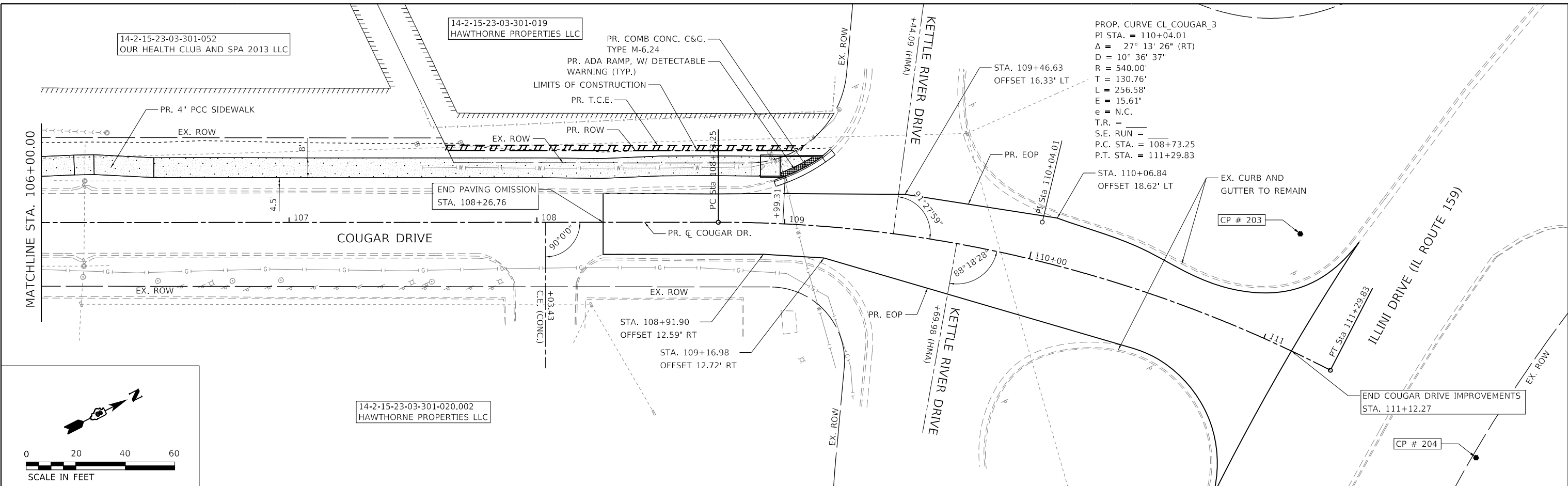


 TWM ENGINEERING GEOSPATIAL SERVICES IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = kostermiller DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	 VILLAGE OF GLEN CARBON	PLAN AND PROFILE COUGAR DRIVE		SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. 100+30.43 TO STA. 106+00.00	MUN. RTE.	SECTION 21-00031-00-RS	COUNTY MADISON	TOTAL SHEETS 28	SHEET NO. 9
	PLOT SCALE = 40.0000 ' / in. PLOT DATE = 7/7/2024	CONTRACT NO. 97843		ILLINOIS FED. AID PROJECT							

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
	NO.	

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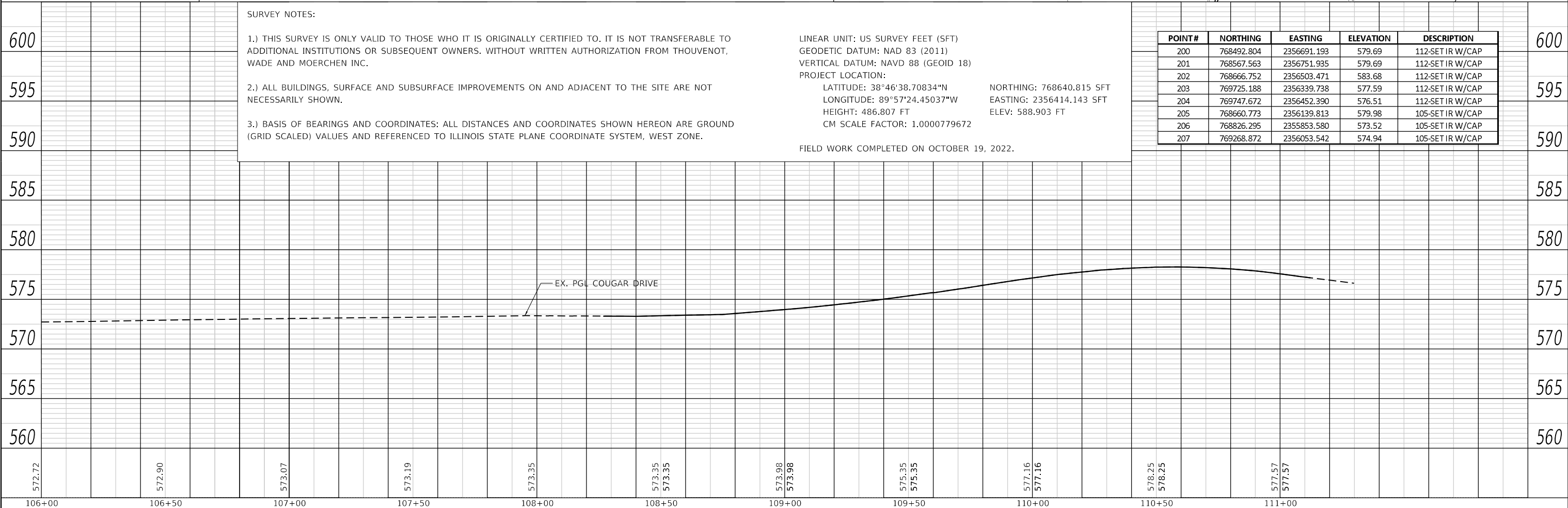
PROP. CURVE CL_COUGAR_3
 PI STA. = 110+04.01
 $\Delta = 27^\circ 13' 26''$ (RT)
 $D = 10^\circ 36' 37''$
 $R = 540.00'$
 $T = 130.76'$
 $L = 256.58'$
 $E = 15.61'$
 $e = N.C.$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 108+73.25$
 $P.T. STA. = 111+29.83$

SURVEY NOTES:

- 1.) THIS SURVEY IS ONLY VALID TO THOSE WHO IT IS ORIGINALLY CERTIFIED TO. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. WITHOUT WRITTEN AUTHORIZATION FROM THOUVENOT, WADE AND MOERCHEN INC.
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- 3.) BASIS OF BEARINGS AND COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES AND REFERENCED TO ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)
 GEODETIC DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88 (GEOID 18)
 PROJECT LOCATION:
 LATITUDE: $38^\circ 46' 38.70834''$ N NORTHING: 768640.815 SFT
 LONGITUDE: $89^\circ 57' 24.45037''$ W EASTING: 2356414.143 SFT
 HEIGHT: 486.807 FT ELEV: 588.903 FT
 CM SCALE FACTOR: 1.0000779672
 FIELD WORK COMPLETED ON OCTOBER 19, 2022.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	768492.804	2356691.193	579.69	112-SET IR W/CAP
201	768567.563	2356751.935	579.69	112-SET IR W/CAP
202	768666.752	2356503.471	583.68	112-SET IR W/CAP
203	769725.188	2356339.738	577.59	112-SET IR W/CAP
204	769747.672	2356452.390	576.51	112-SET IR W/CAP
205	768660.773	2356139.813	579.98	105-SET IR W/CAP
206	768826.295	2355853.580	573.52	105-SET IR W/CAP
207	769268.872	2356053.542	574.94	105-SET IR W/CAP



106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00
572.72	572.90	573.07	573.19	573.35	573.35	573.98	573.98	575.35	575.35	577.16
										577.16
										577.16
										578.25
										578.25
										577.57
										577.57

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

USER NAME = kostermiller	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 7/7/2024	CHECKED -	REVISED -
	DATE -	REVISED -



VILLAGE OF GLEN CARBON

PLAN AND PROFILE
COUGAR DRIVE

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 106+00.00 TO STA. 111+12.27

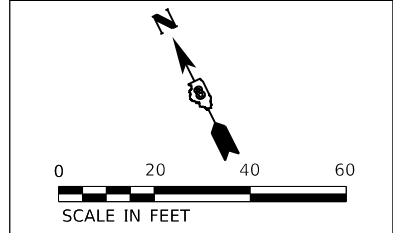
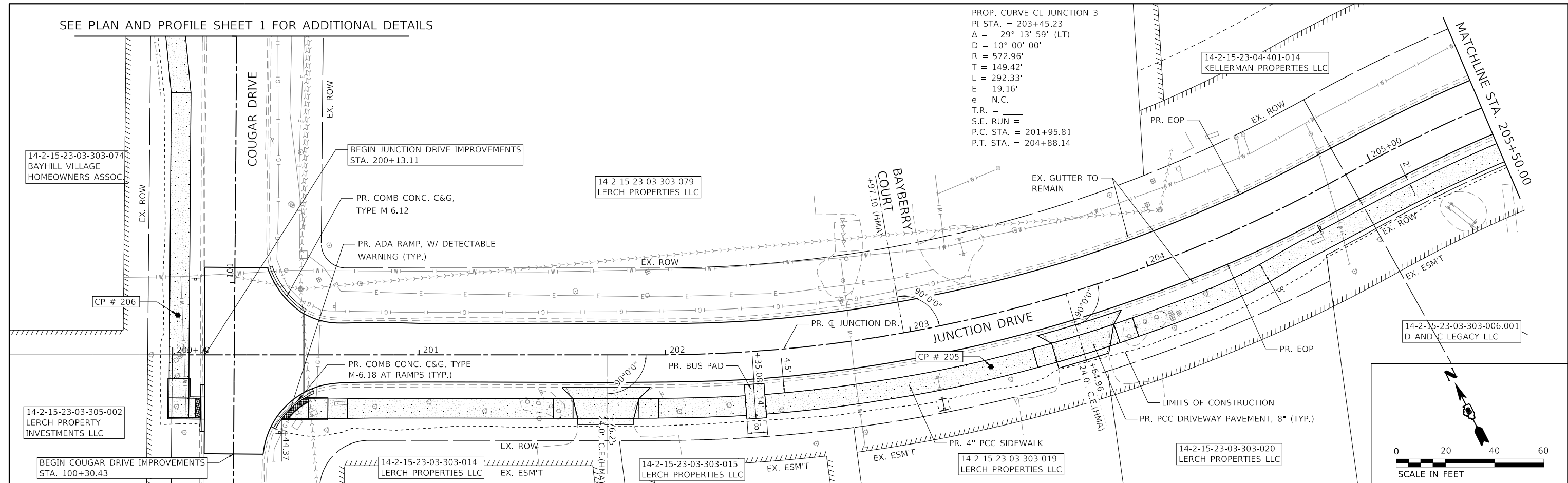
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	10
CONTRACT NO. 97843			ILLINOIS FED. AID PROJECT	

SEE PLAN AND PROFILE SHEET 1 FOR ADDITIONAL DETAILS

PROP. CURVE CL_JUNCTION_3
 PI STA. = 203+45.23
 $\Delta = 29^\circ 13' 59''$ (LT)
 $D = 10^\circ 00' 00''$
 $R = 572.96'$
 $T = 149.42'$
 $L = 292.33'$
 $E = 19.16'$
 $e = N.C.$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 201+95.81$
 $P.T. STA. = 204+88.14$

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

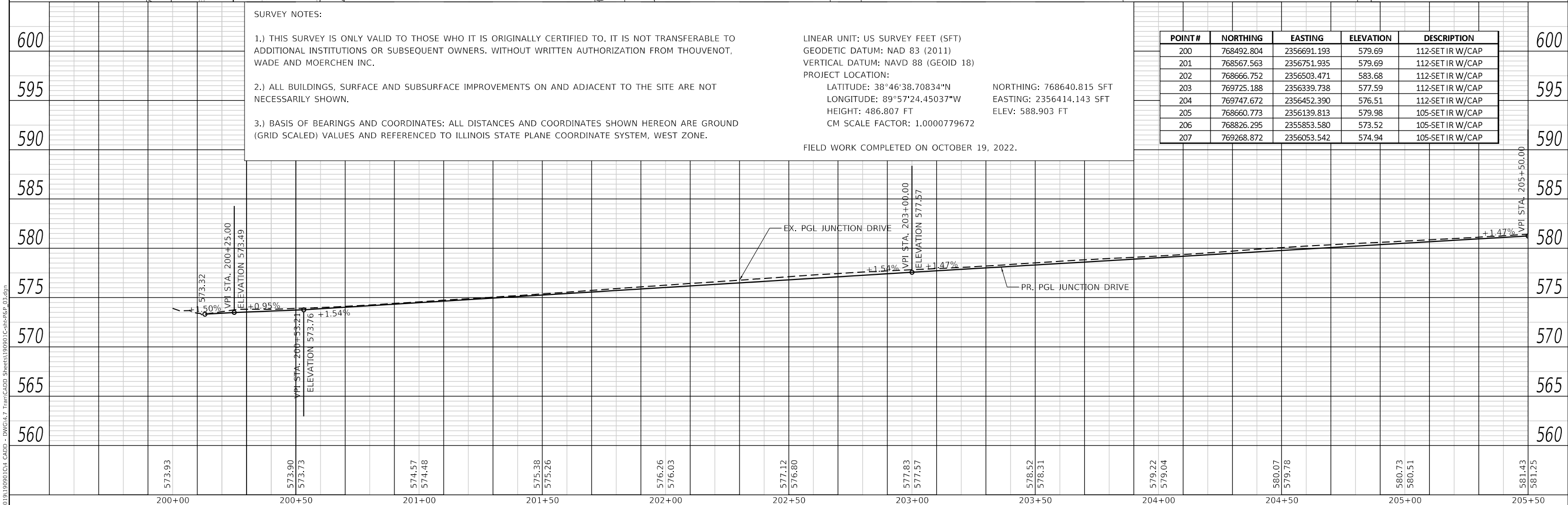


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LINEAR UNIT: US SURVEY FEET (SFT)
 GEODETIC DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88 (GEOID 18)
 PROJECT LOCATION:
 LATITUDE: $38^\circ 46' 38.70834''$ N NORTHING: 768640.815 SFT
 LONGITUDE: $89^\circ 57' 24.45037''$ W EASTING: 2356414.143 SFT
 HEIGHT: 486.807 FT ELEV: 588.903 FT
 CM SCALE FACTOR: 1.0000779672
 FIELD WORK COMPLETED ON OCTOBER 19, 2022.

POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	768492.804	2356691.193	579.69	112-SET IR W/CAP
201	768567.563	2356751.935	579.69	112-SET IR W/CAP
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204	769747.672	2356452.390	576.51	112-SET IR W/CAP
205	768660.773	2356139.813	579.98	105-SET IR W/CAP
206	768826.295	2355853.580	573.52	105-SET IR W/CAP
207	769268.872	2356053.542	574.94	105-SET IR W/CAP



573.93	573.90	574.57	575.38	576.26	577.83	578.52	579.22	580.07	580.73	581.43
200+00	200+50	201+00	201+50	202+00	202+50	203+00	203+50	204+00	204+50	205+00

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 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = kostermiller
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

PLOT SCALE = 40,0000 ' / in.
 PLOT DATE = 7/7/2024

SCALE: 1"=20'

SHEET 3 OF 4 SHEETS

STA. 200+13.11 TO STA. 205+50.00



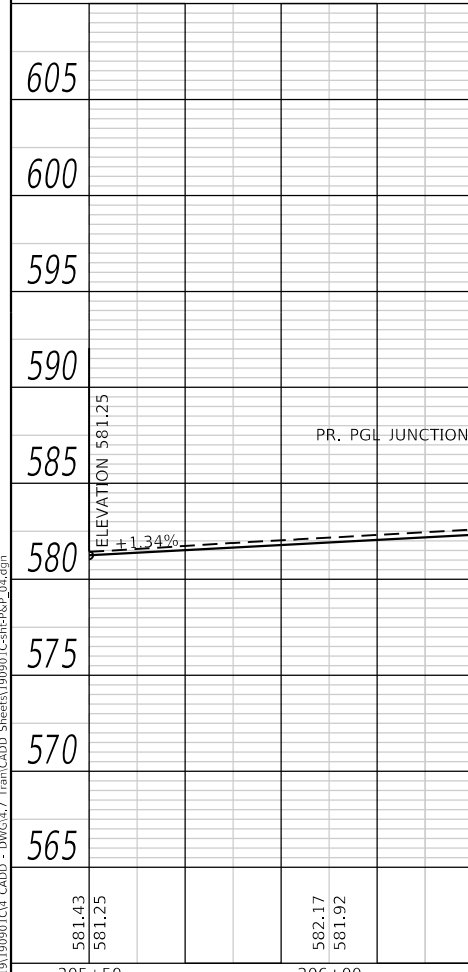
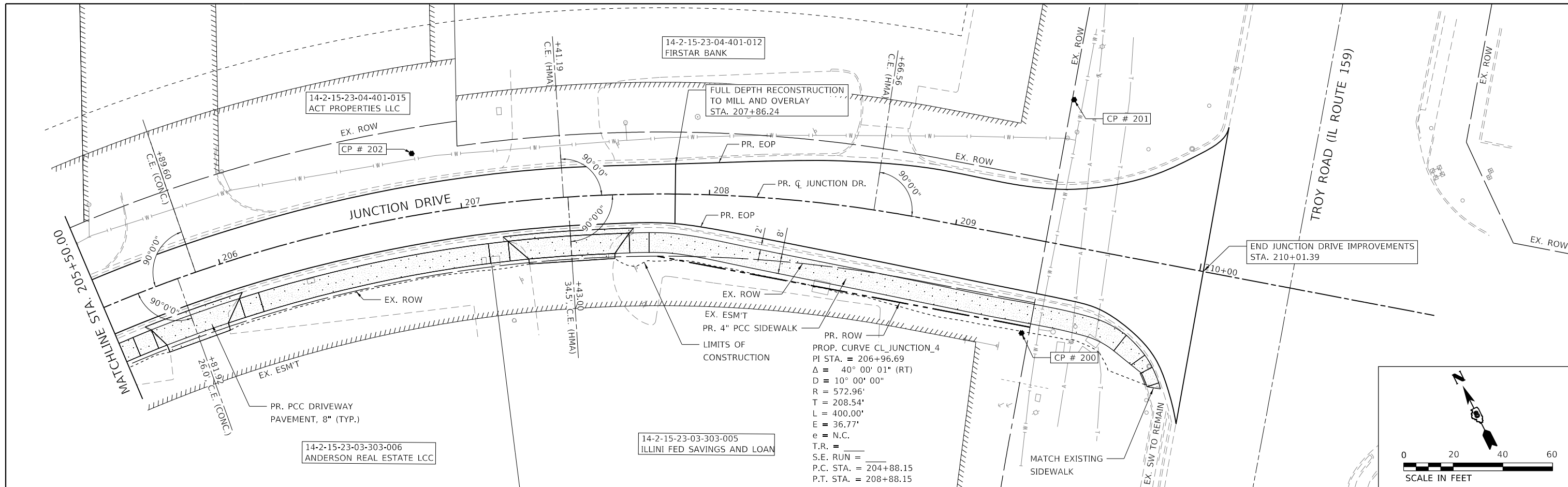
VILLAGE OF GLEN CARBON

**PLAN AND PROFILE
 JUNCTION DRIVE**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	11
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



SURVEY NOTES:



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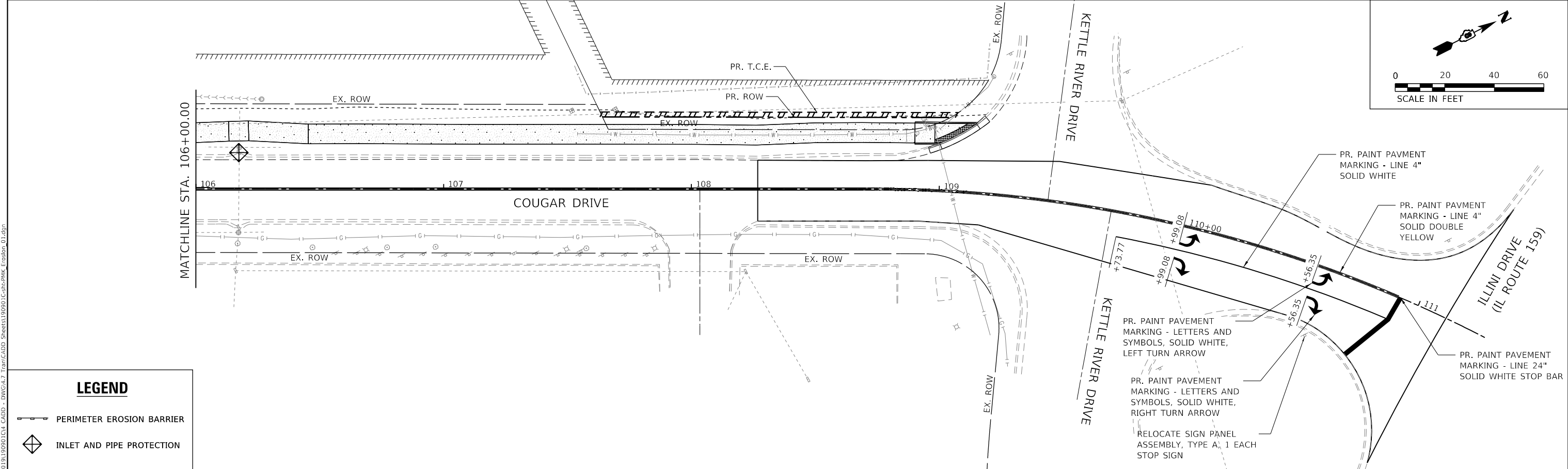
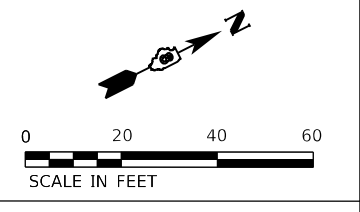
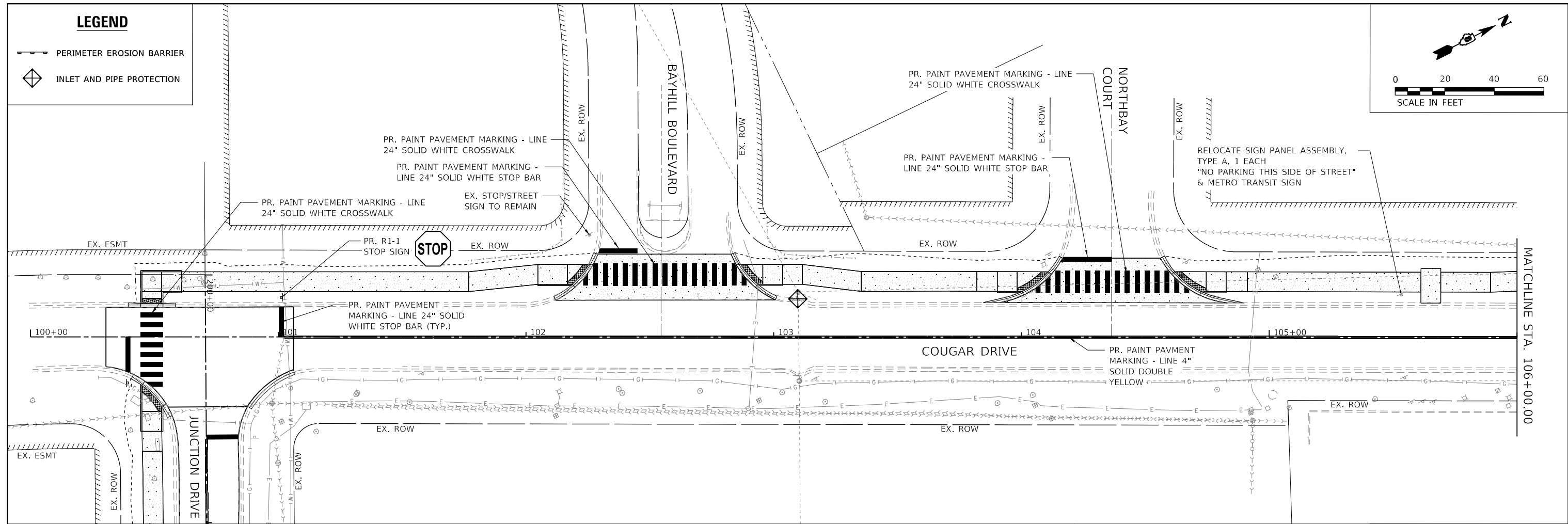
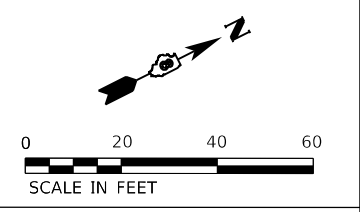
LINEAR UNIT: US SURVEY FEET (SFT)
 GEODETIC DATUM: NAD 83 (2011)
 VERTICAL DATUM: NAVD 88 (GEOID 18)
 PROJECT LOCATION:
 LATITUDE: 38°46'38.70834"N NORTHING: 768640.815 SFT
 LONGITUDE: 89°57'24.45037"W EASTING: 2356414.143 SFT
 HEIGHT: 486.807 FT ELEV: 588.903 FT
 CM SCALE FACTOR: 1.0000779672

FIELD WORK COMPLETED ON OCTOBER 19, 2022.



POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	768492.804	2356691.193	579.69	112-SET IR W/CAP
201	768567.563	2356751.935	579.69	112-SET IR W/CAP
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206	768826.295	2355853.580	573.52	105-SET IR W/CAP
207	769268.872	2356053.542	574.94	105-SET IR W/CAP

LEGEND

-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION



LEGEND

-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION

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 DATE: 7/7/2024

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 ILLINOIS DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = kostermiller	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 7/7/2024	CHECKED -	REVISED -
	DATE -	REVISED -

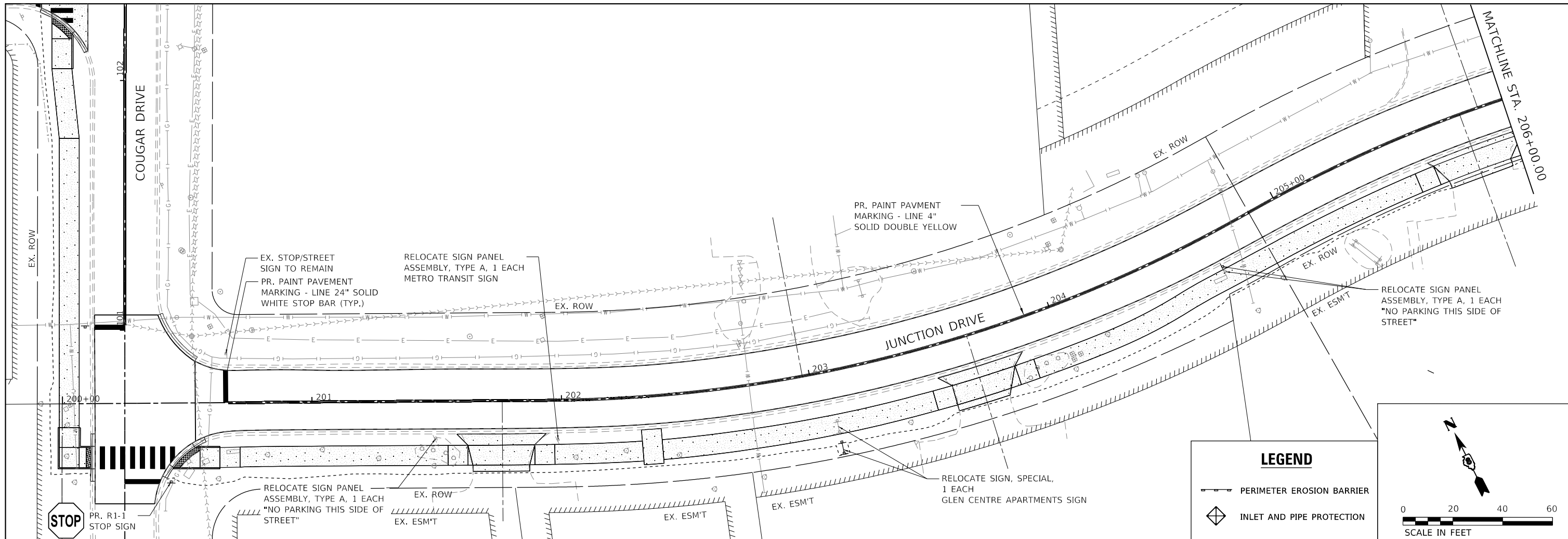


VILLAGE OF GLEN CARBON

**EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE PLAN
 COUGAR DRIVE**

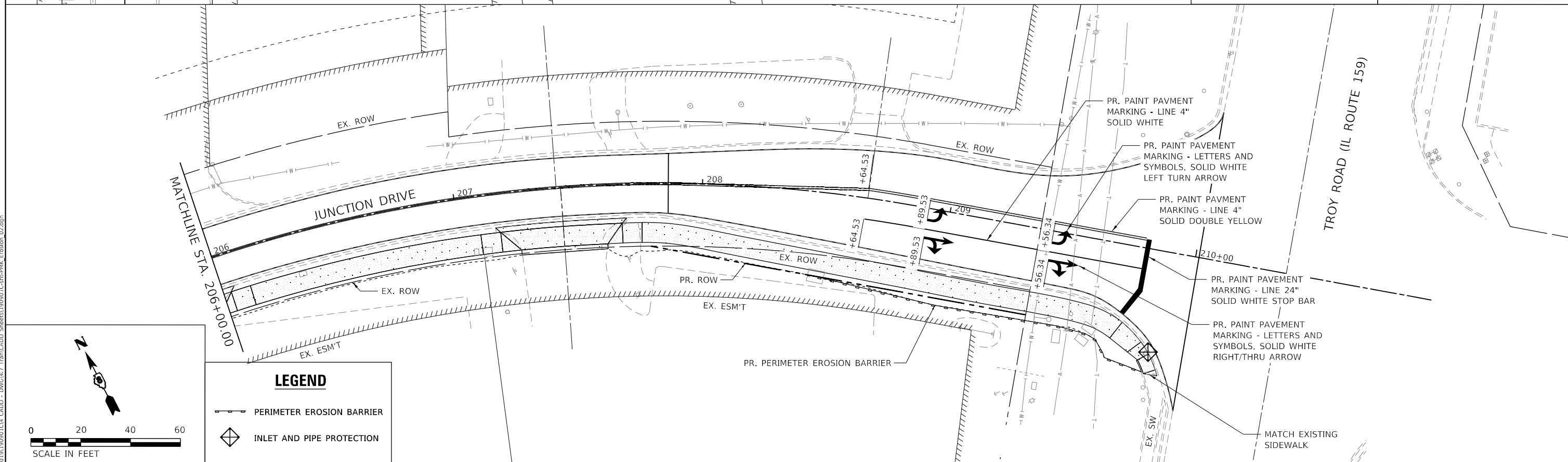
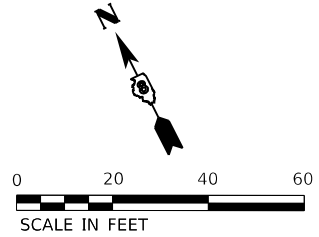
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	13
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



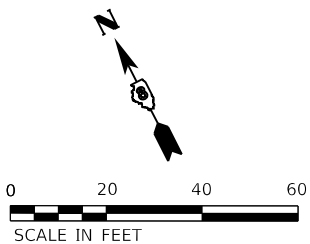
LEGEND

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION



LEGEND

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION



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TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES

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 ILL. DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = kostermiller
 PLOT SCALE = 40.0000 ' / in.
 PLOT DATE = 7/7/2024

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -



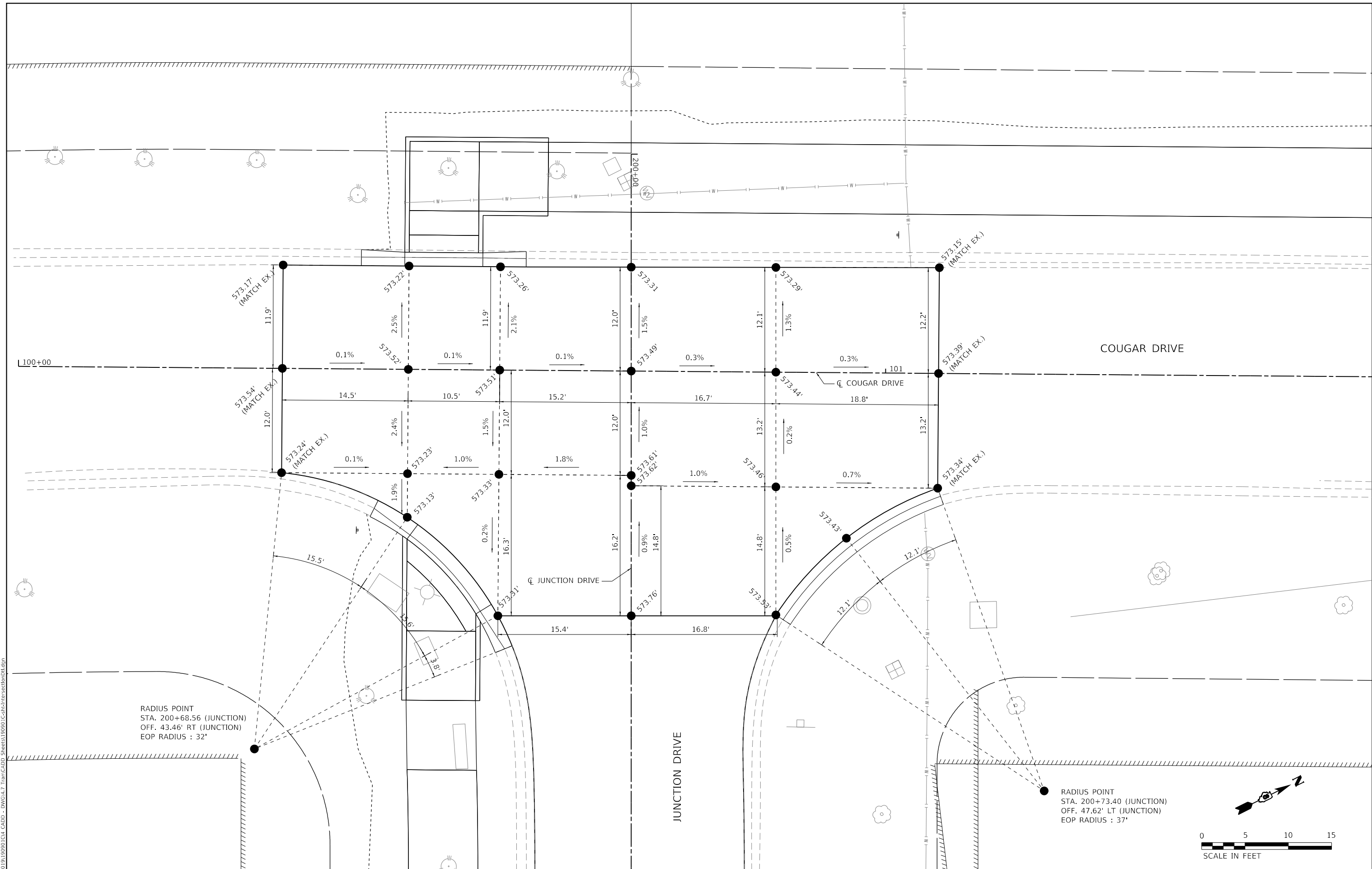
VILLAGE OF GLEN CARBON

EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE PLAN
JUNCTION DRIVE

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 200+13.11 TO STA. 210+01.39

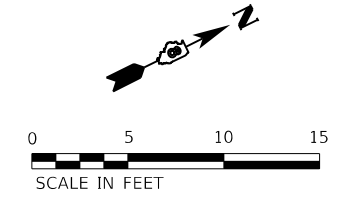
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	14
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

MODEL: Dwg.rvt
FILE NAME: P:\2019\190900\104_CADD - DWG\47_TownCADD_Sheets\190900_C-ht-IntersectionDetail.dwg



RADIUS POINT
STA. 200+68.56 (JUNCTION)
OFF. 43.46' RT (JUNCTION)
EOP RADIUS : 32'

RADIUS POINT
STA. 200+73.40 (JUNCTION)
OFF. 47.62' LT (JUNCTION)
EOP RADIUS : 37'



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IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = kostermiller
PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 7/7/2024

DESIGNED -
DRAWN -
CHECKED -
DATE -

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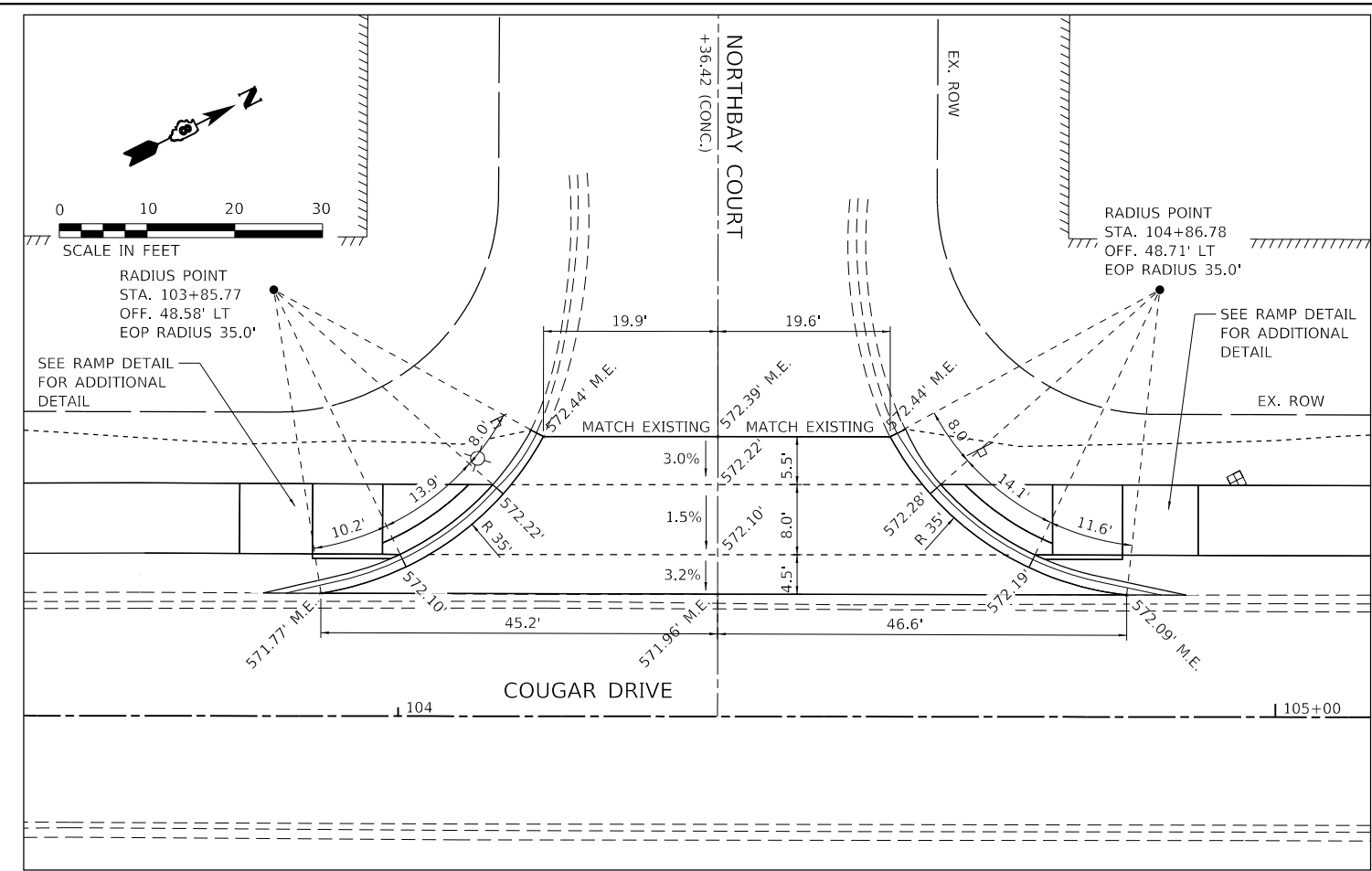
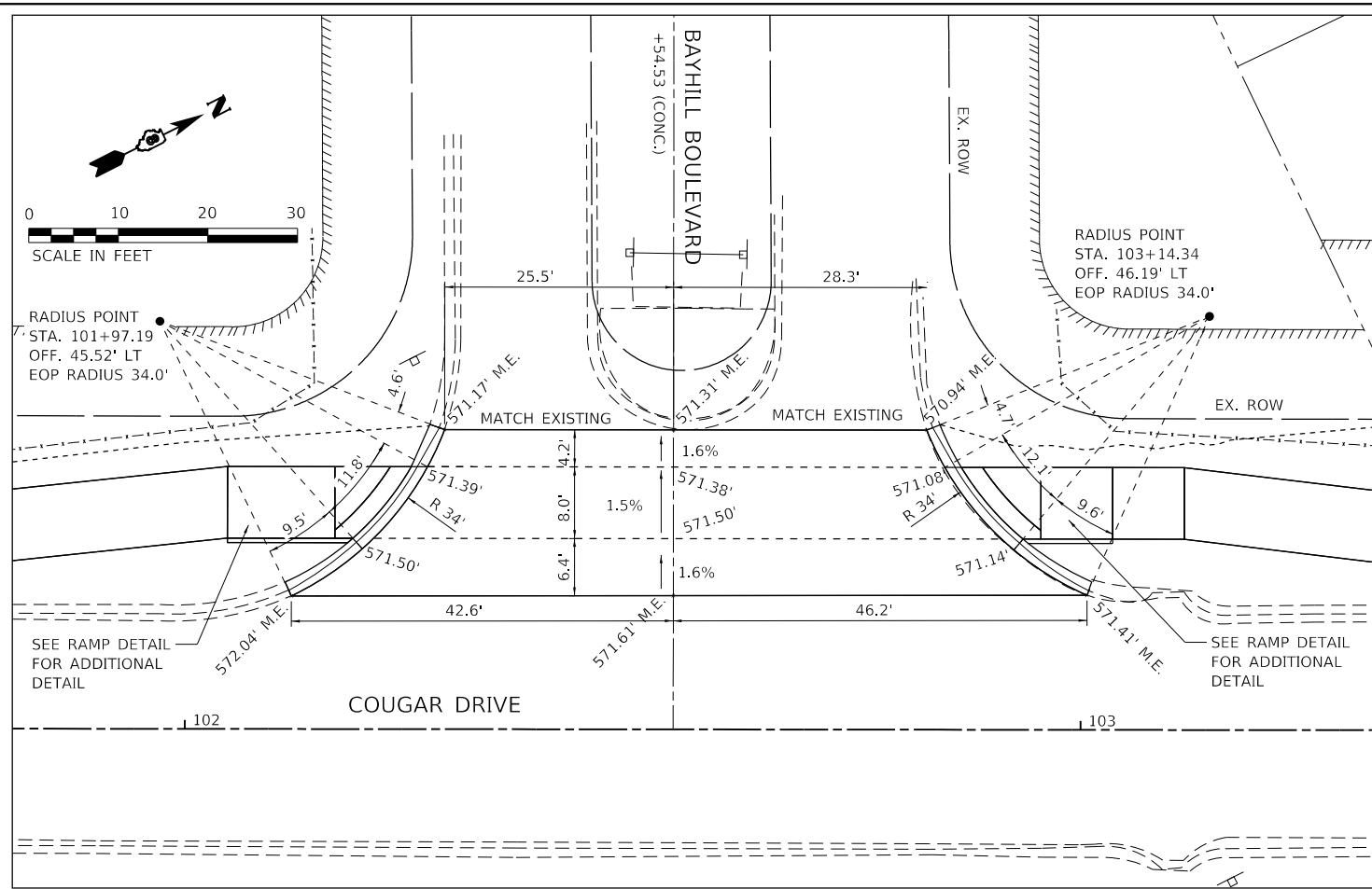
VILLAGE OF GLEN CARBON

INTERSECTION DETAIL

SCALE: 1"=5'

SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	15
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



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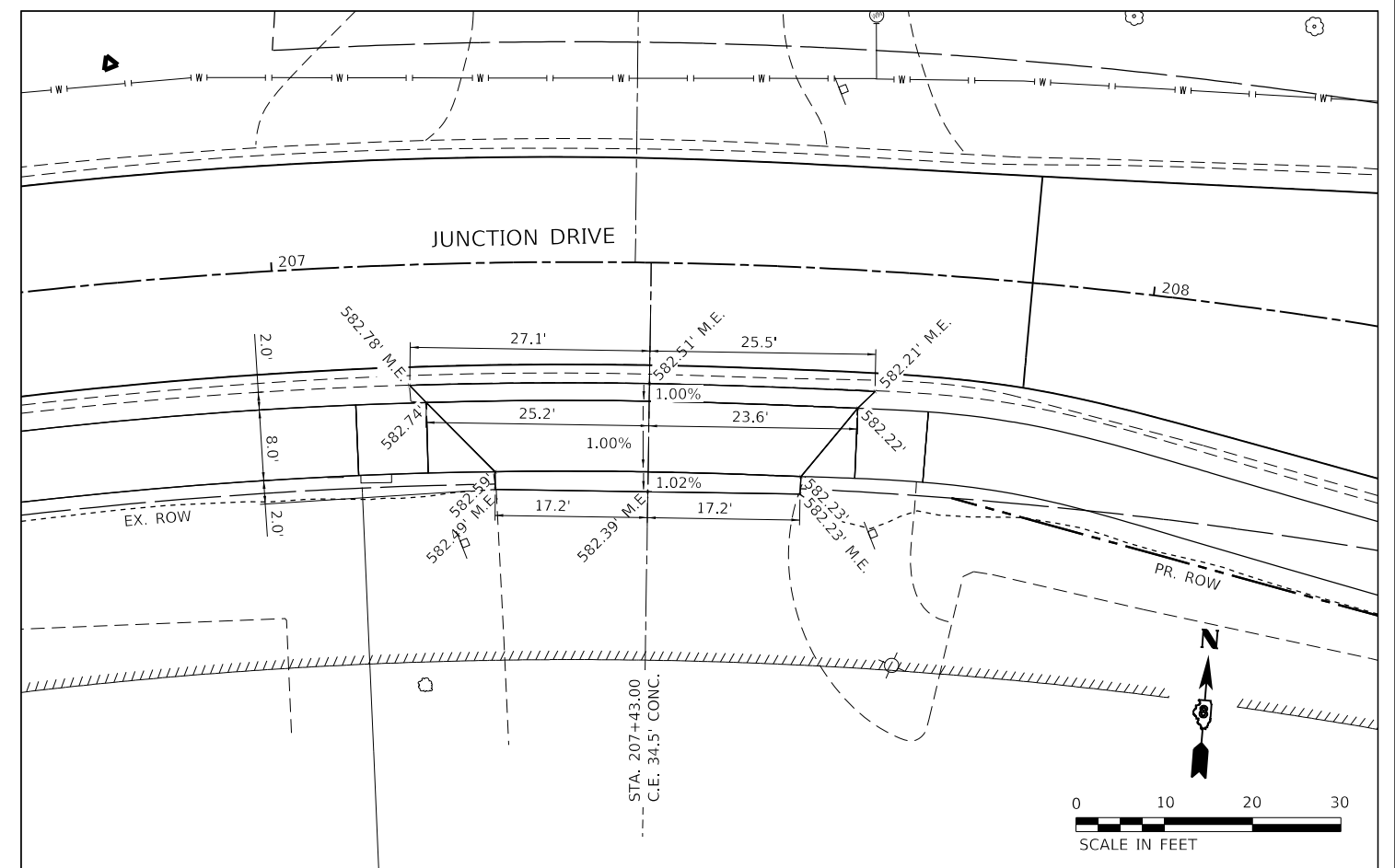
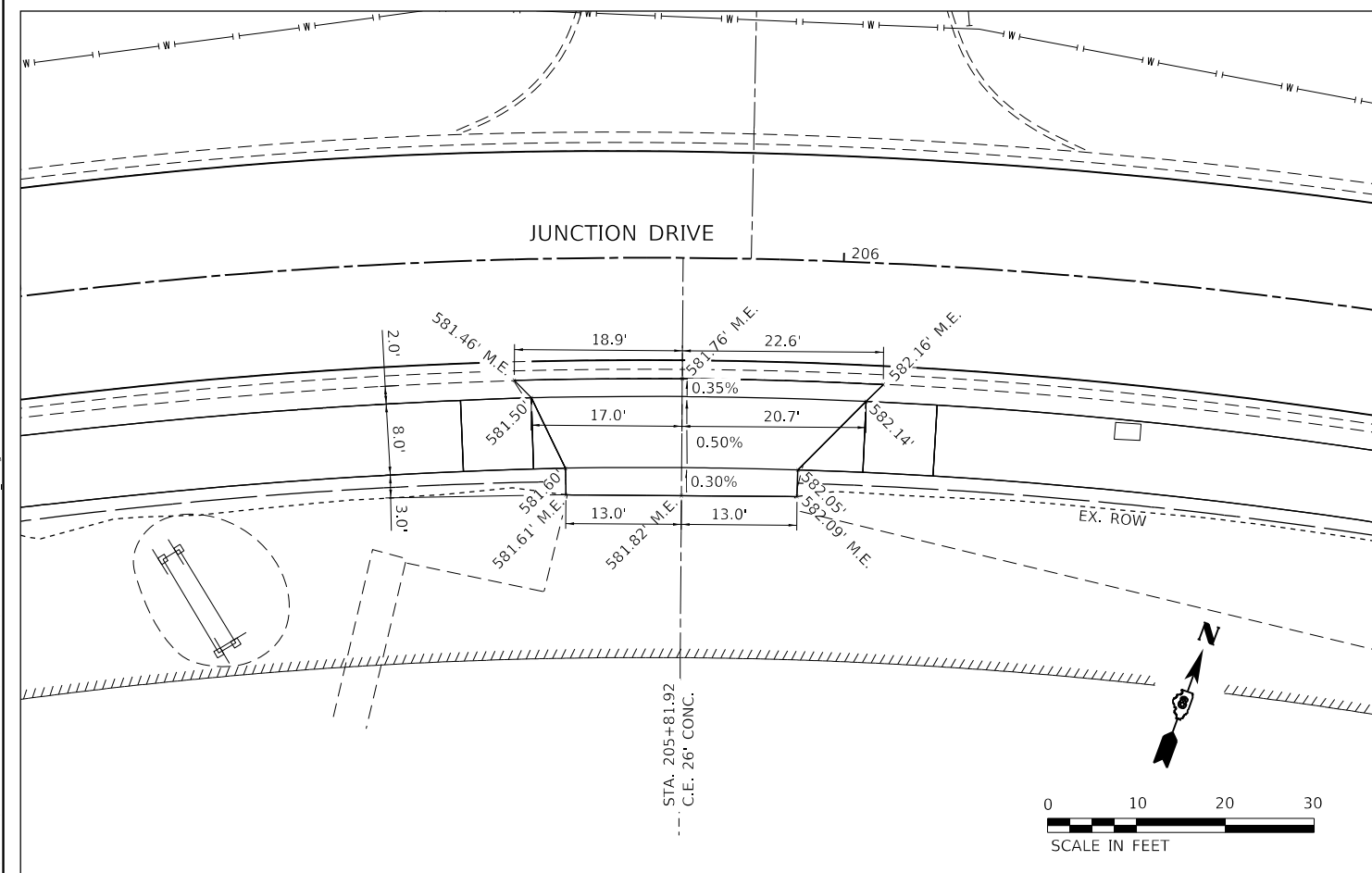
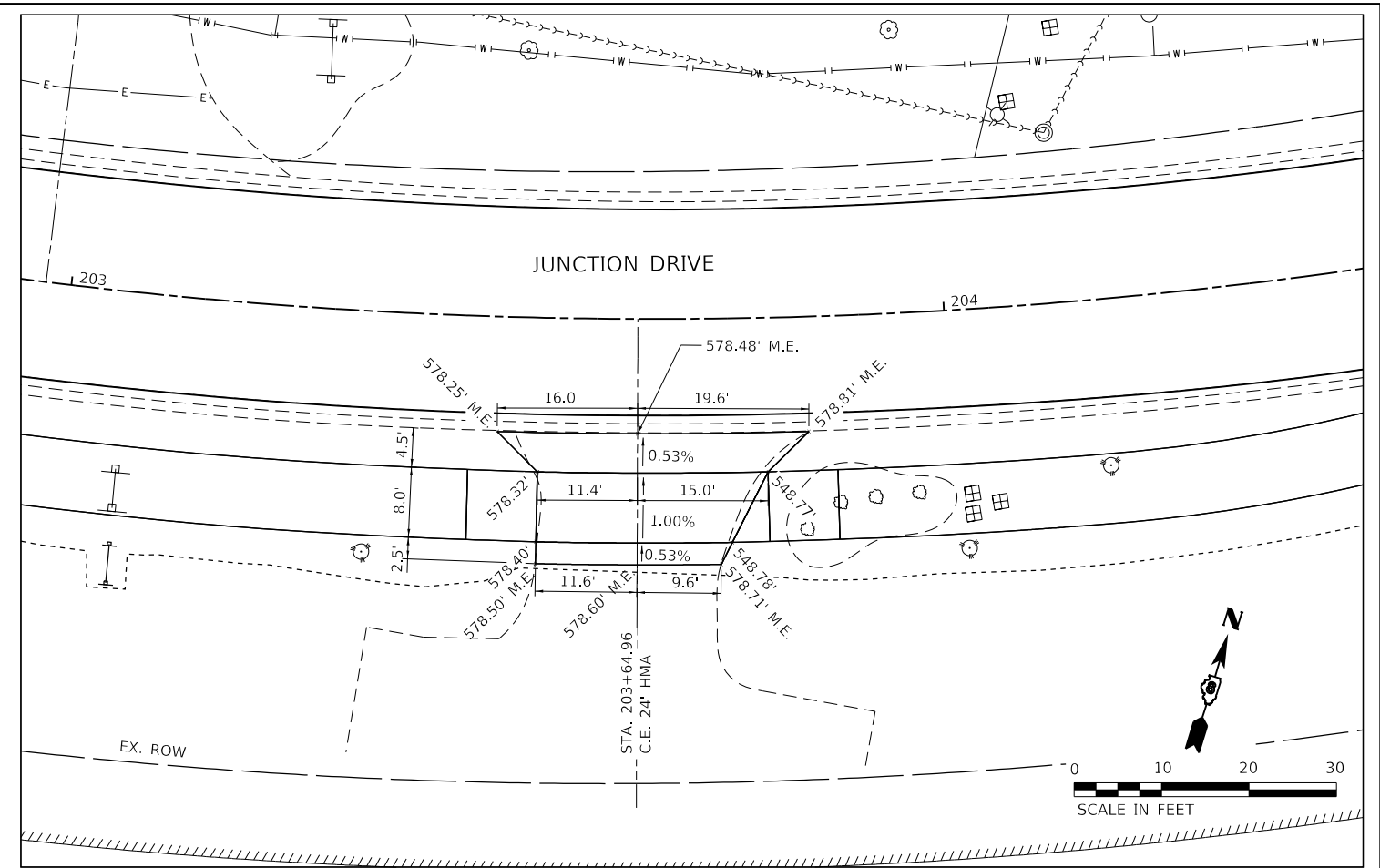
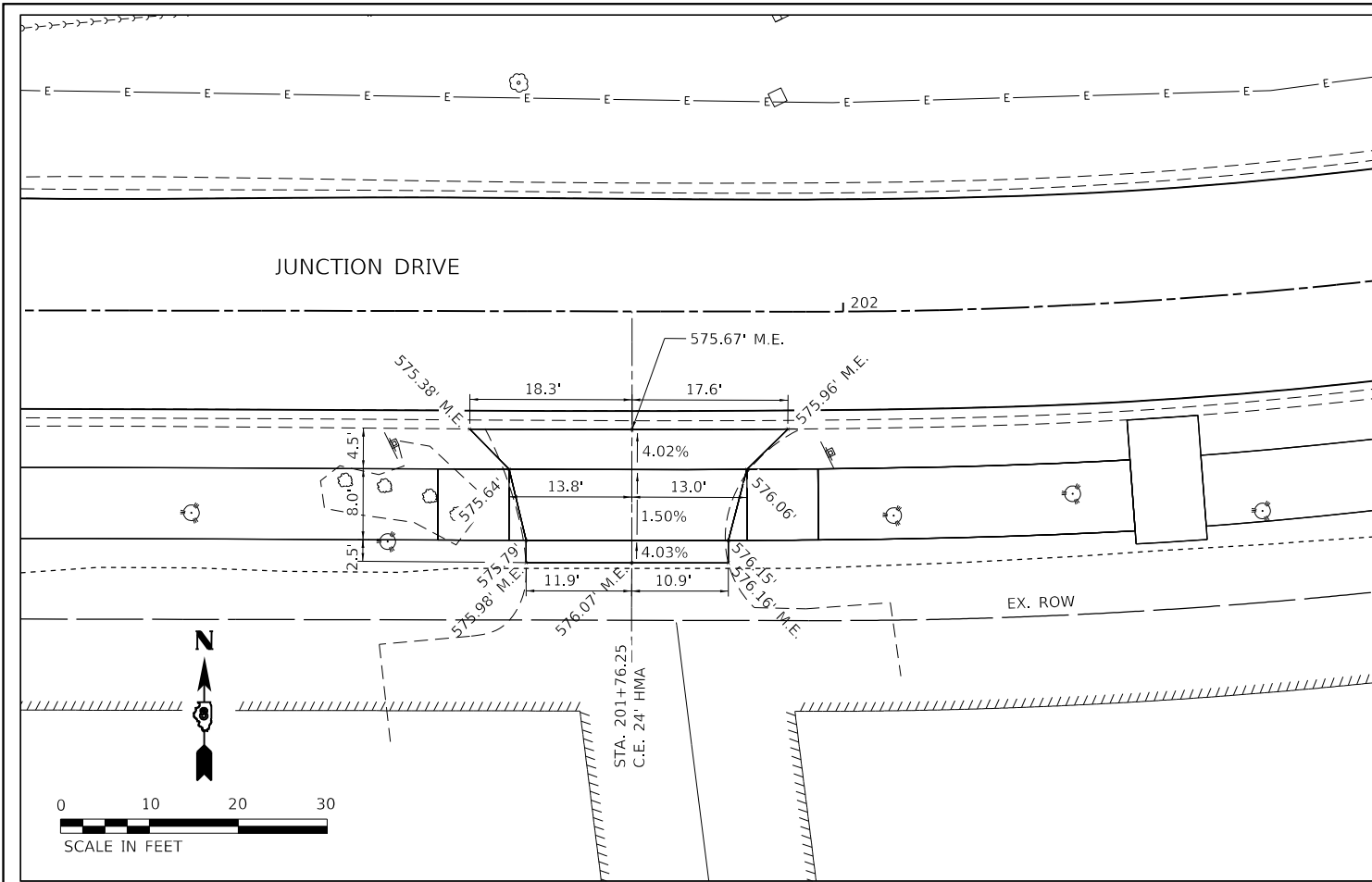


VILLAGE OF GLEN CARBON

**SIDEROAD DETAILS
COUGAR DRIVE**

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

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	16
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



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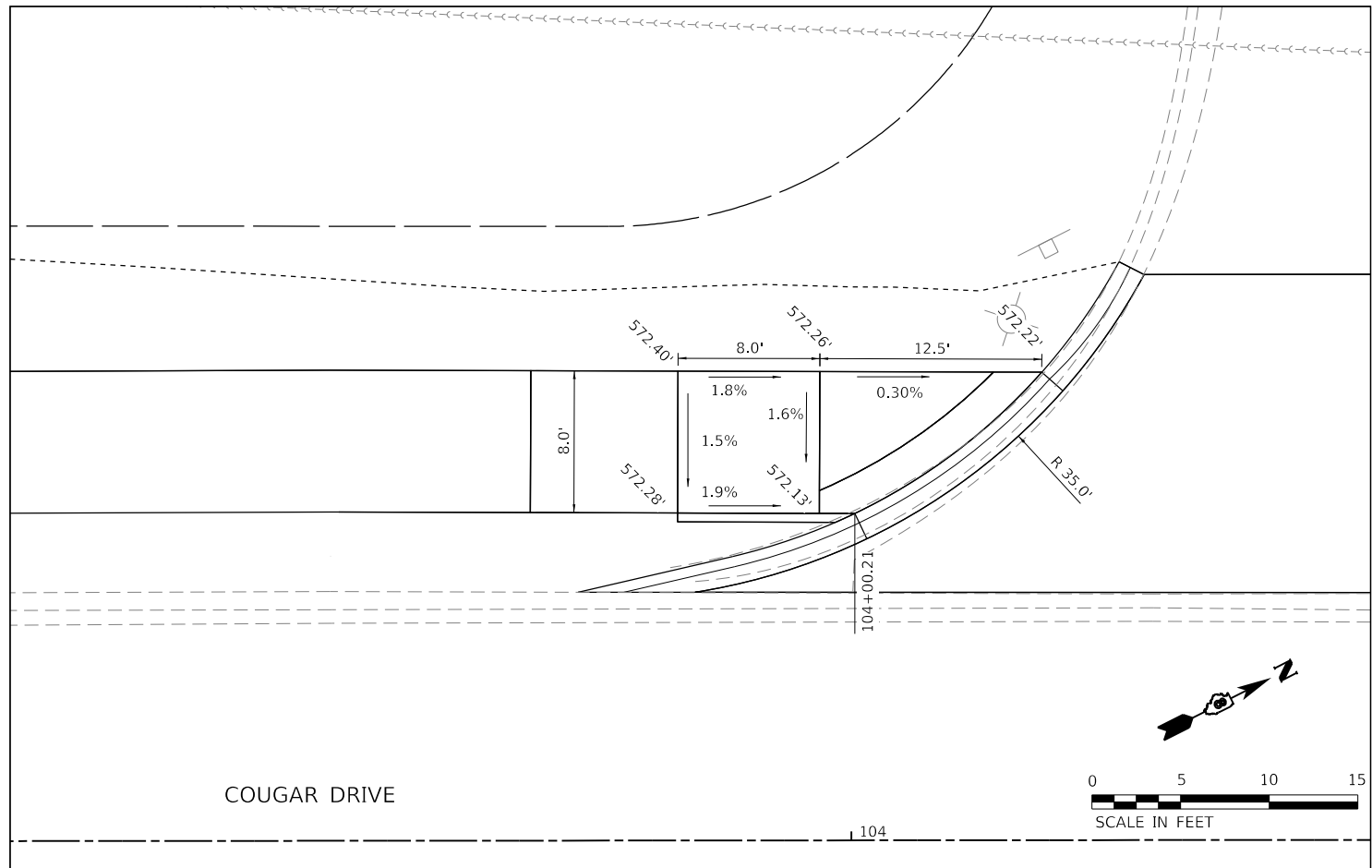
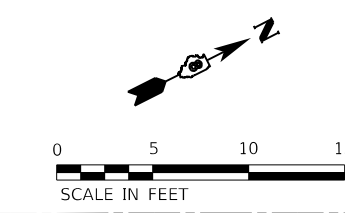
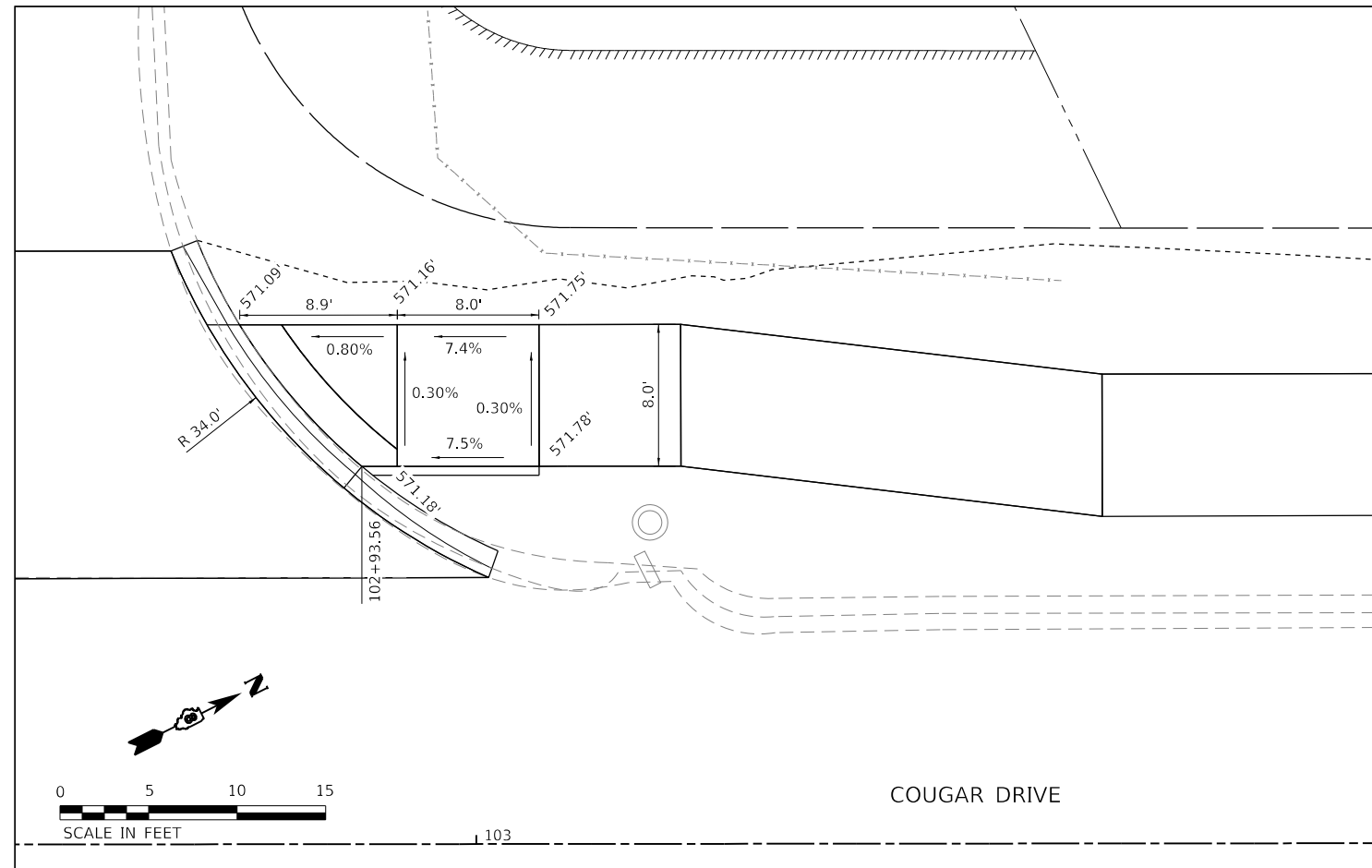
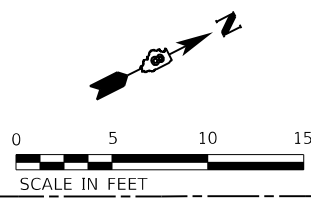
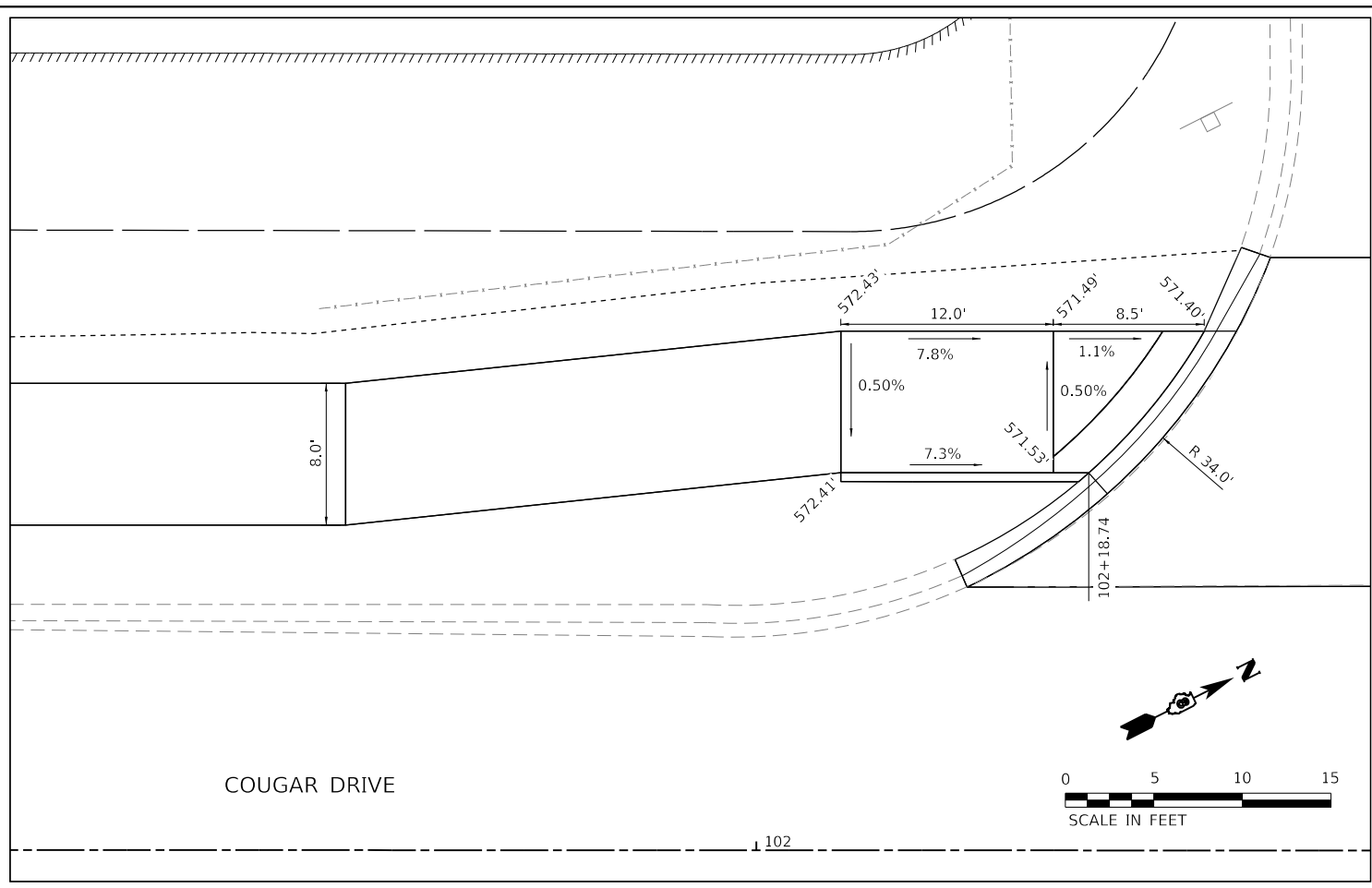
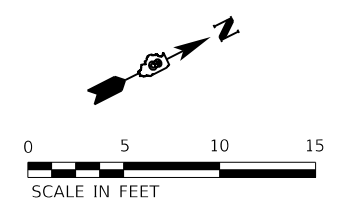
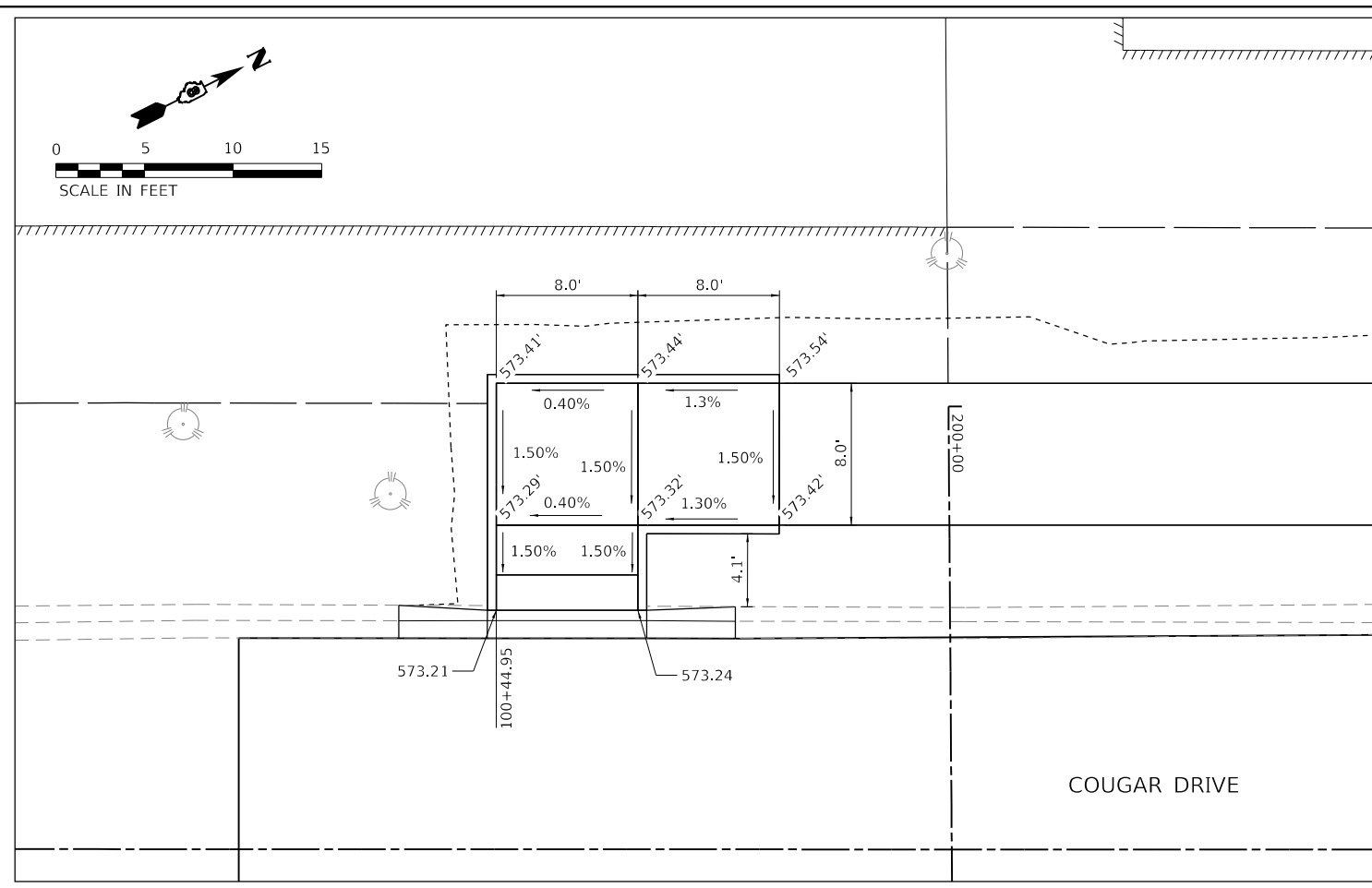
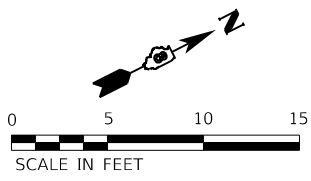


VILLAGE OF GLEN CARBON

ENTRANCE DETAILS
JUNCTION DRIVE

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

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	17
CONTRACT NO. 97843				
ILLINOIS		FED. AID PROJECT		



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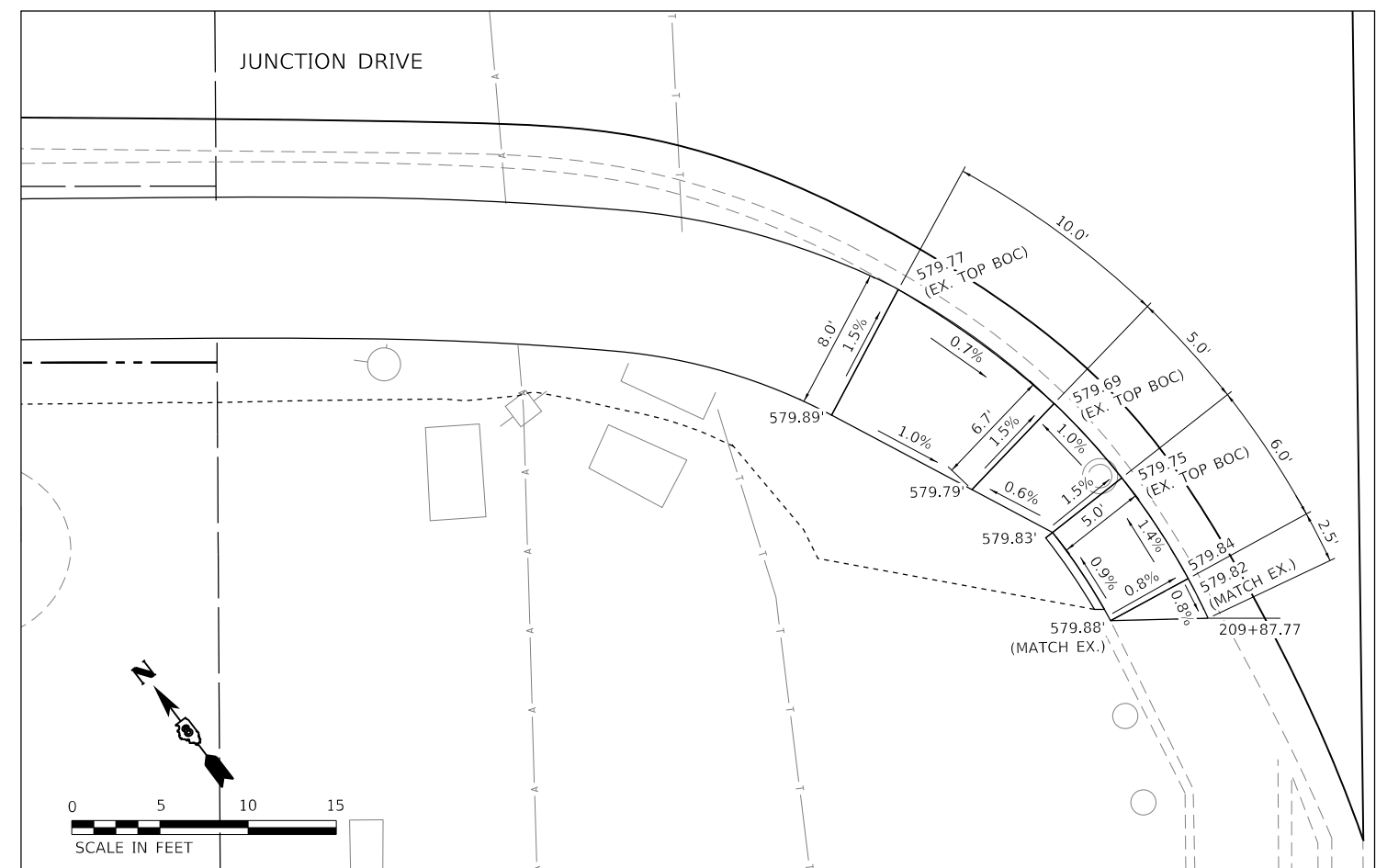
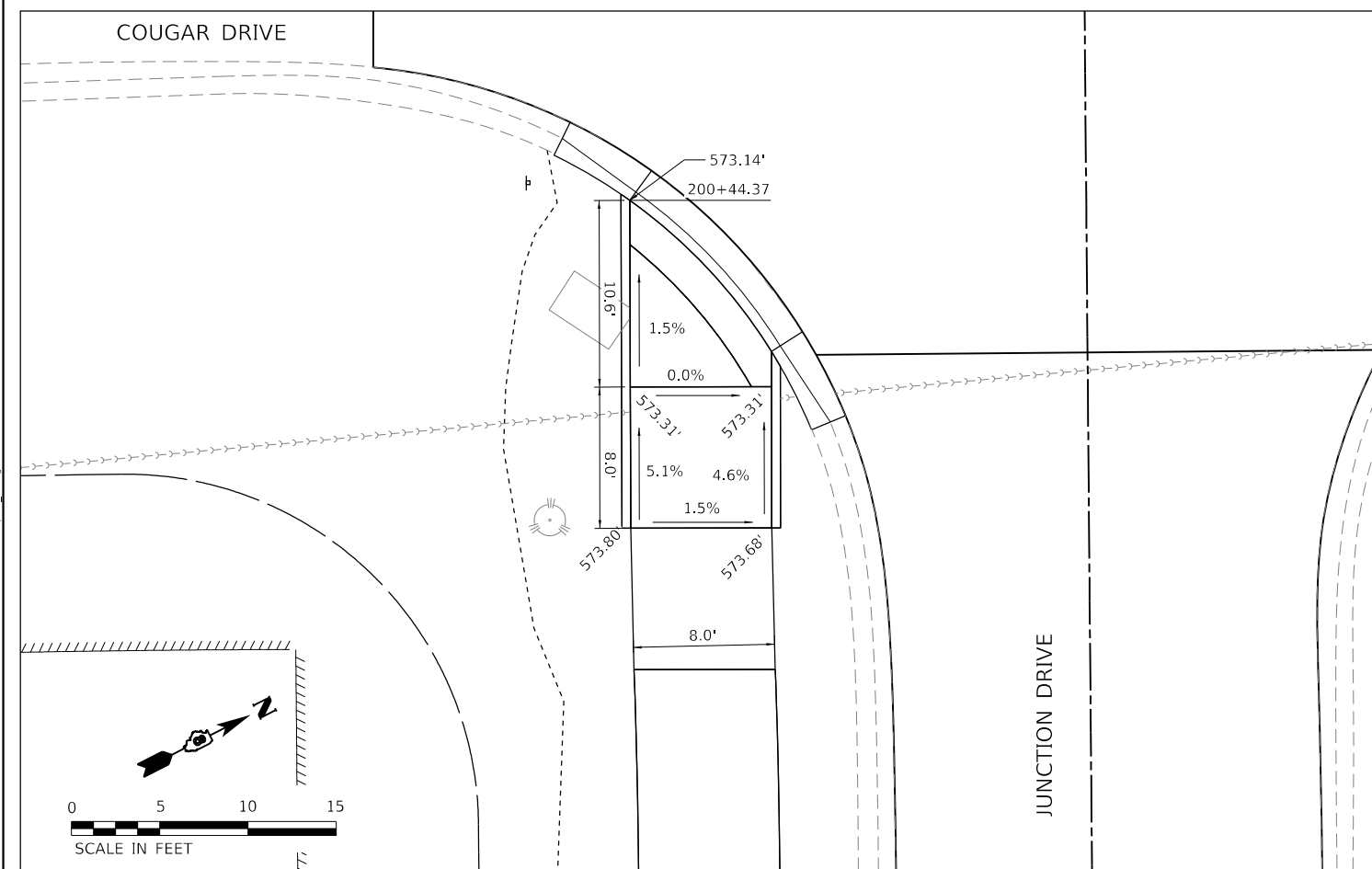
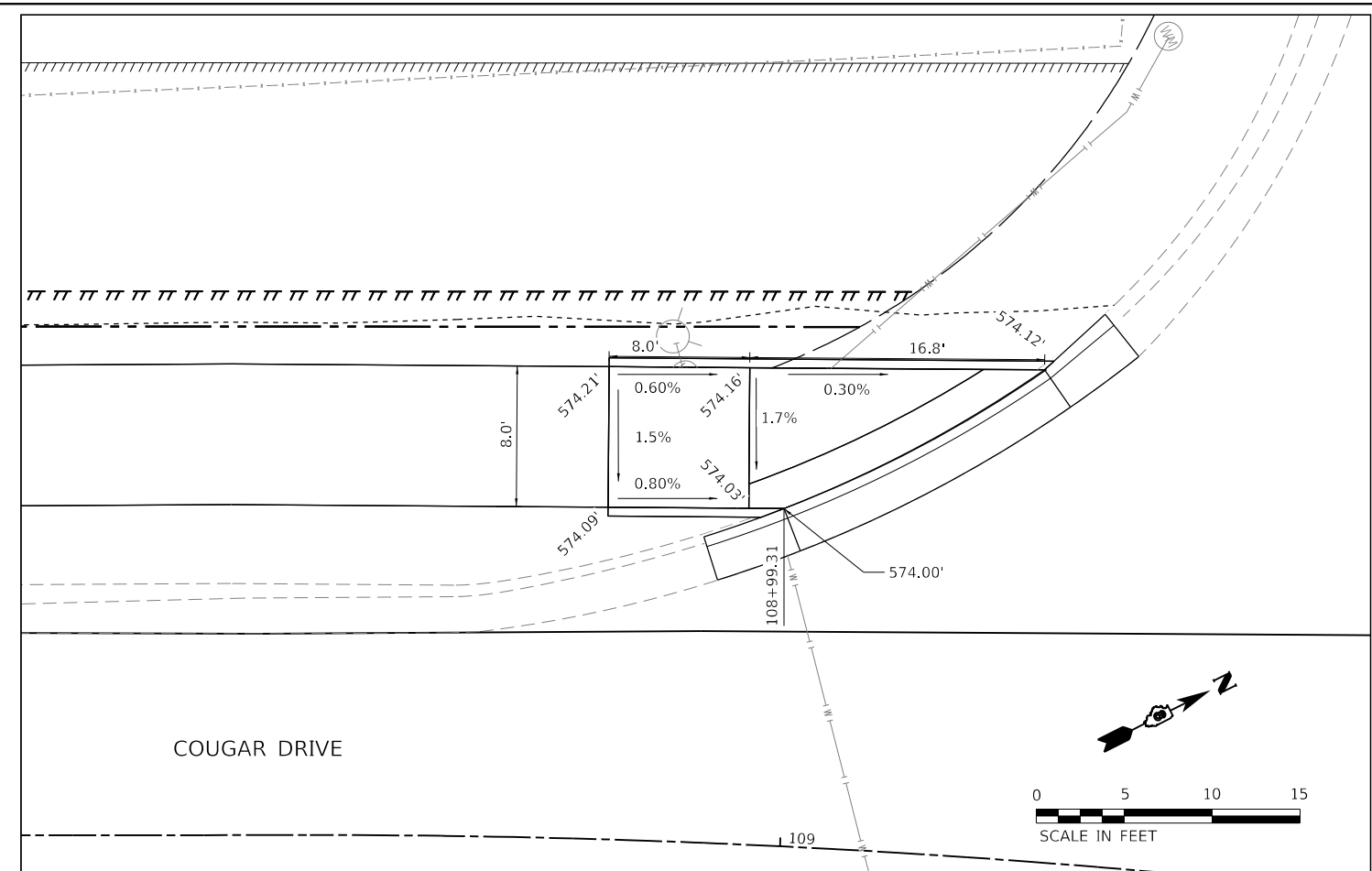
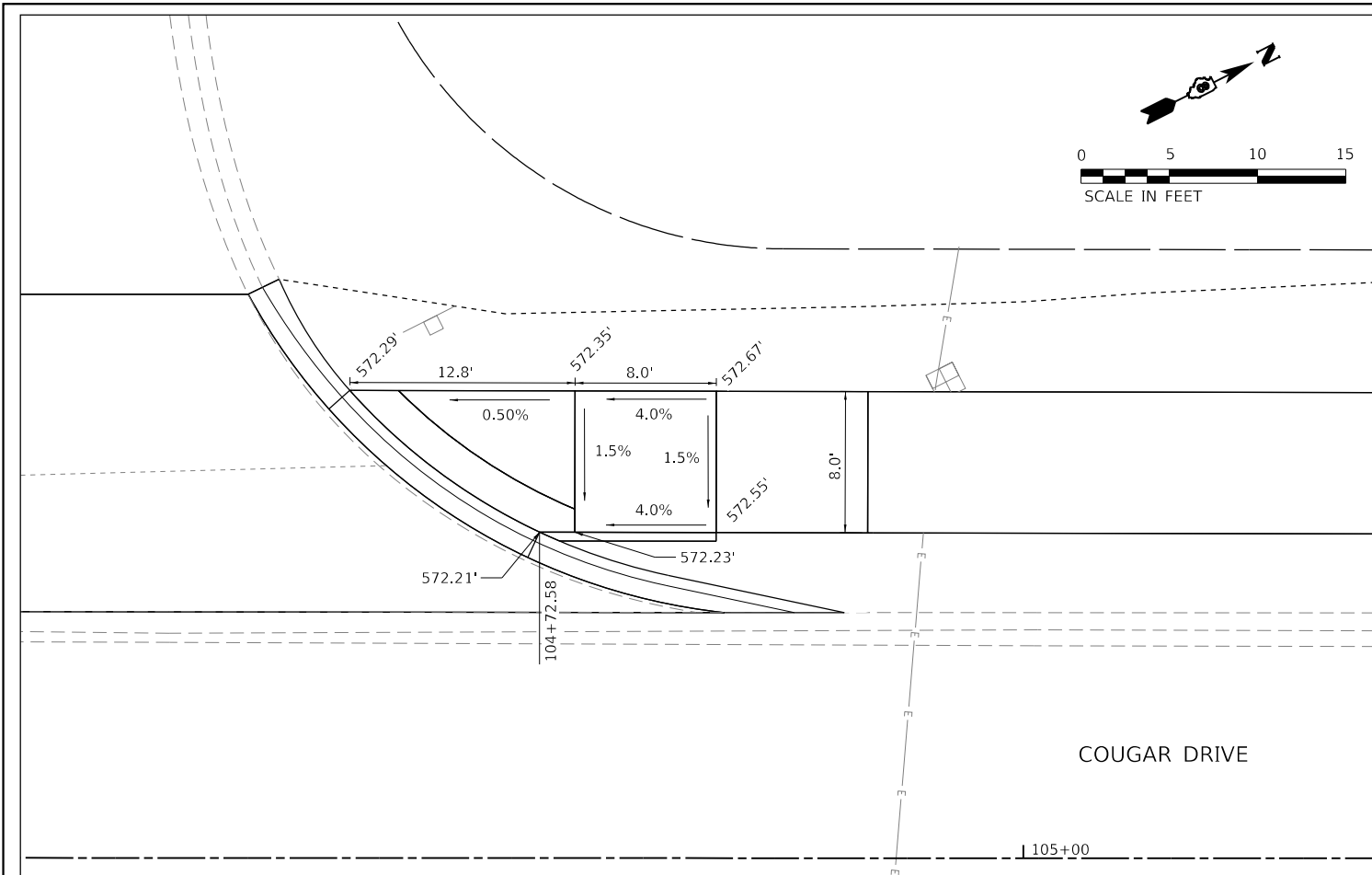


VILLAGE OF GLEN CARBON

RAMP DETAILS

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	18
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



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 USER NAME = kostermiller
 PLOT SCALE = 10.0000 ' / in.
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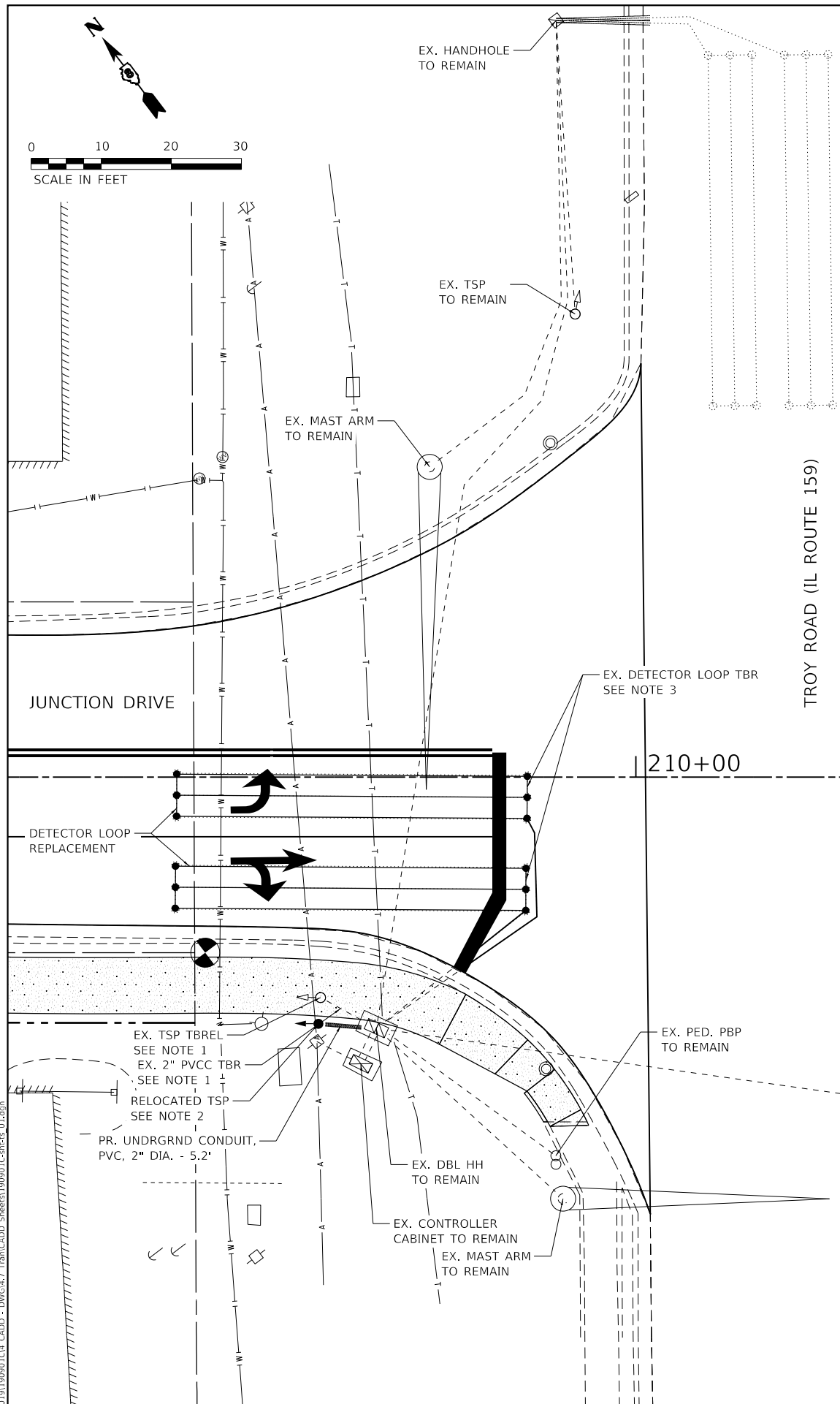


VILLAGE OF GLEN CARBON

RAMP DETAILS

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	19
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



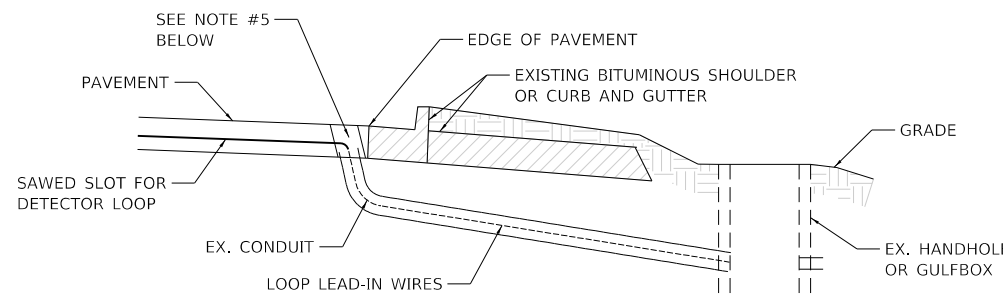
GENERAL NOTES

- TRAFFIC SIGNALS SHALL BE OPERATIONAL AND ALL TRAFFIC SIGNAL WORK SHALL BE COMPLETED DURING THE COUGAR DRIVE AND JUNCTION DRIVE 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 THE ILLINOIS DEPARTMENT OF TRANSPORTATION BEFORE FOUNDATIONS ARE CONSTRUCTED. IN CURBED SECTIONS, THE TRAFFIC SIGNAL POST CENTERS SHALL BE LOCATED A MINIMUM OF 4 FEET FROM THE BACK 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 THE ILLINOIS DEPARTMENT OF TRANSPORTATION 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.
- CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "UNDERGROUND CONDUIT" AND INSTALLED PER ARTICLE 810.04 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.
- LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
- EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED IN ACCORDANCE WITH THE RESPECTIVE SPECIAL PROVISIONS.
- EXISTING CONCRETE FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH THE RESPECTIVE SPECIAL PROVISIONS. THE CONDUIT SHALL BE ABANDONED IN PLACE AND THE CABLES SHALL BE REMOVED.
- THE FOLLOWING IDOT STANDARDS SHALL APPLY TO CONSTRUCTION OF THE SIGNALS: 000001-08, 838001-01, 873001-02, 878001-11, 880006-01, 886001-01, 886006-01.

CODE NUMBER	ITEM	UNIT	QUANTITY
80300100	LOCATING UNDERGROUND CABLE	FOOT	273
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5
87801245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	59
87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	100
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	24
87900100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87900200	DRILL EXISTING HANDHOLE	EACH	1
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	100
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8860105	DETECTOR LOOP REPLACEMENT	FOOT	362

PLAN NOTES

- EX. TSP (SW). RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT, THIS SHALL INCLUDE BUT NOT LIMITED TO THE TRAFFIC SIGNAL POST AND THE SIGNAL HEAD. REMOVE THE CONDUIT BETWEEN THE EX. TRAFFIC SIGNAL POST TO BE RELOCATED AND THE EX. DOUBLE HANDHOLE TO REMAIN, COST TO BE INCLUDED IN COST OF RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE EX. CONCRETE FOUNDATION. REMOVE ELECTRICAL CABLE FROM CONDUIT FROM EX. TSP TO TRAFFIC CONTROLLER.
- RELOCATED TSP (SW). STA. 209+54.72, 35.17' RT. REL. TRAFFIC SIGNAL POST W/ REL. NEAR RIGHT TRAFFIC SIGNAL HEAD. PR. CONC. FOUNDATION, TY A.
- THE EX. DETECTOR LOOP WILL BE REMOVED AS NECESSARY TO NOT INTERFERE WITH THE DETECTOR LOOP REPLACEMENT. THIS WILL INCLUDE REMOVING THE ELECTRICAL CABLE TO THE EX. HANDHOLE TO REMAIN. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT (NO SCALE)

- DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
- REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
- INSTALL NEW LOOP LEAD-IN WIRES TO EXISTING CONDUIT.
- SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
- FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING CONDUIT.
- LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT".

TRAFFIC SIGNAL LEGEND

- EXISTING SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING DETECTOR LOOP
- EXISTING SERVICE INSTALLATION
- EXISTING CONDUIT
- POLYVINYL CHLORIDE CONDUIT
- GALVANIZED STEEL CONDUIT
- PROPOSED DETECTOR LOOP
- PROPOSED CONDUIT, SIZE SPECIFIED

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VILLAGE OF GLEN CARBON

TRAFFIC SIGNAL GENERAL NOTES, SOQ, DETAILS & PLAN
JUNCTION DRIVE / IL ROUTE 159
SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-R5	MADISON	28	20
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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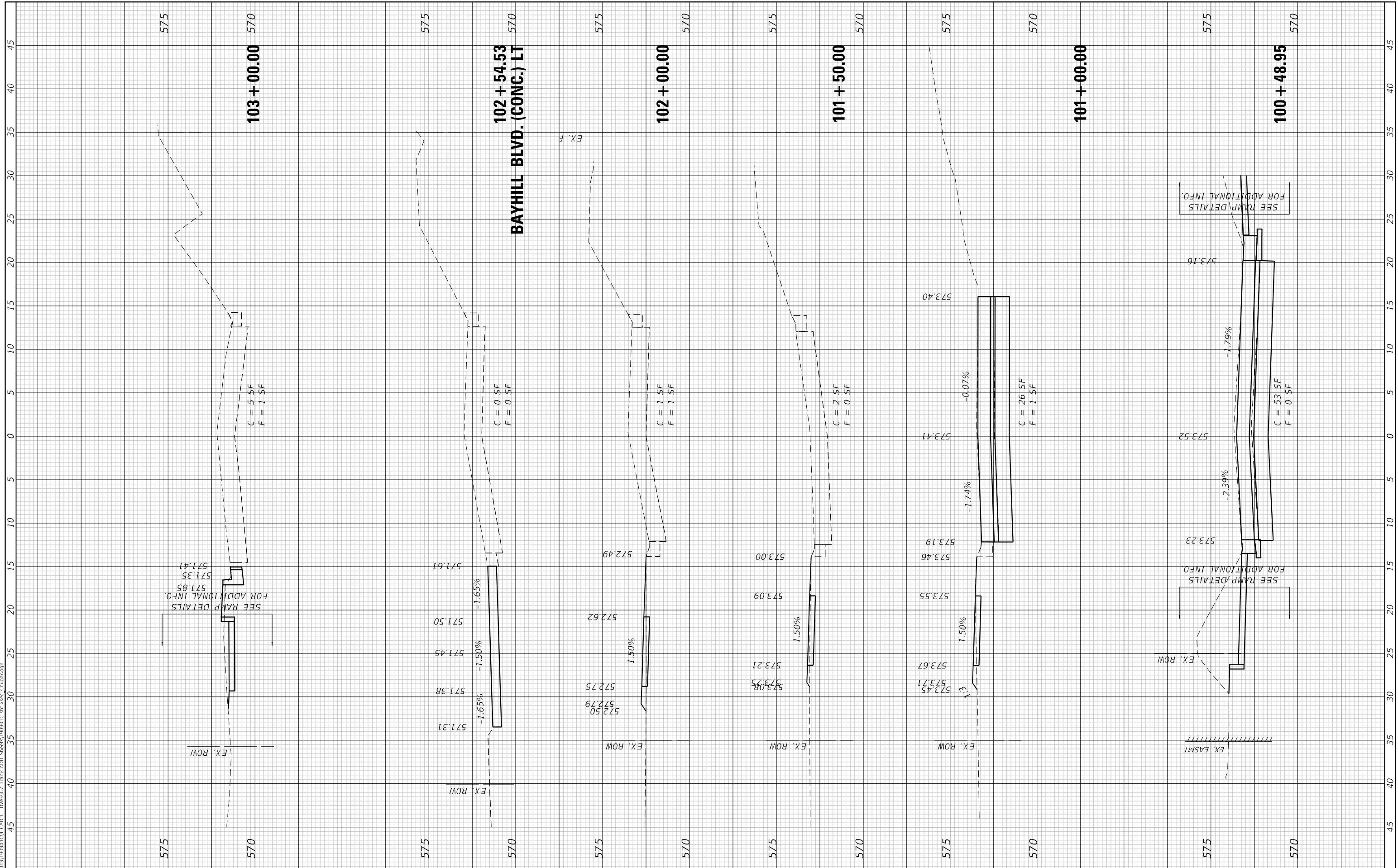


VILLAGE OF GLEN CARBON

**CROSS SECTIONS
COUGAR DRIVE**

SCALE: 1"=5' SHEET 1 OF 4 SHEETS STA. 100+48.95 TO STA. 103+00.00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	21
			CONTRACT NO. 97843	
		ILLINOIS	FED. AID PROJECT	



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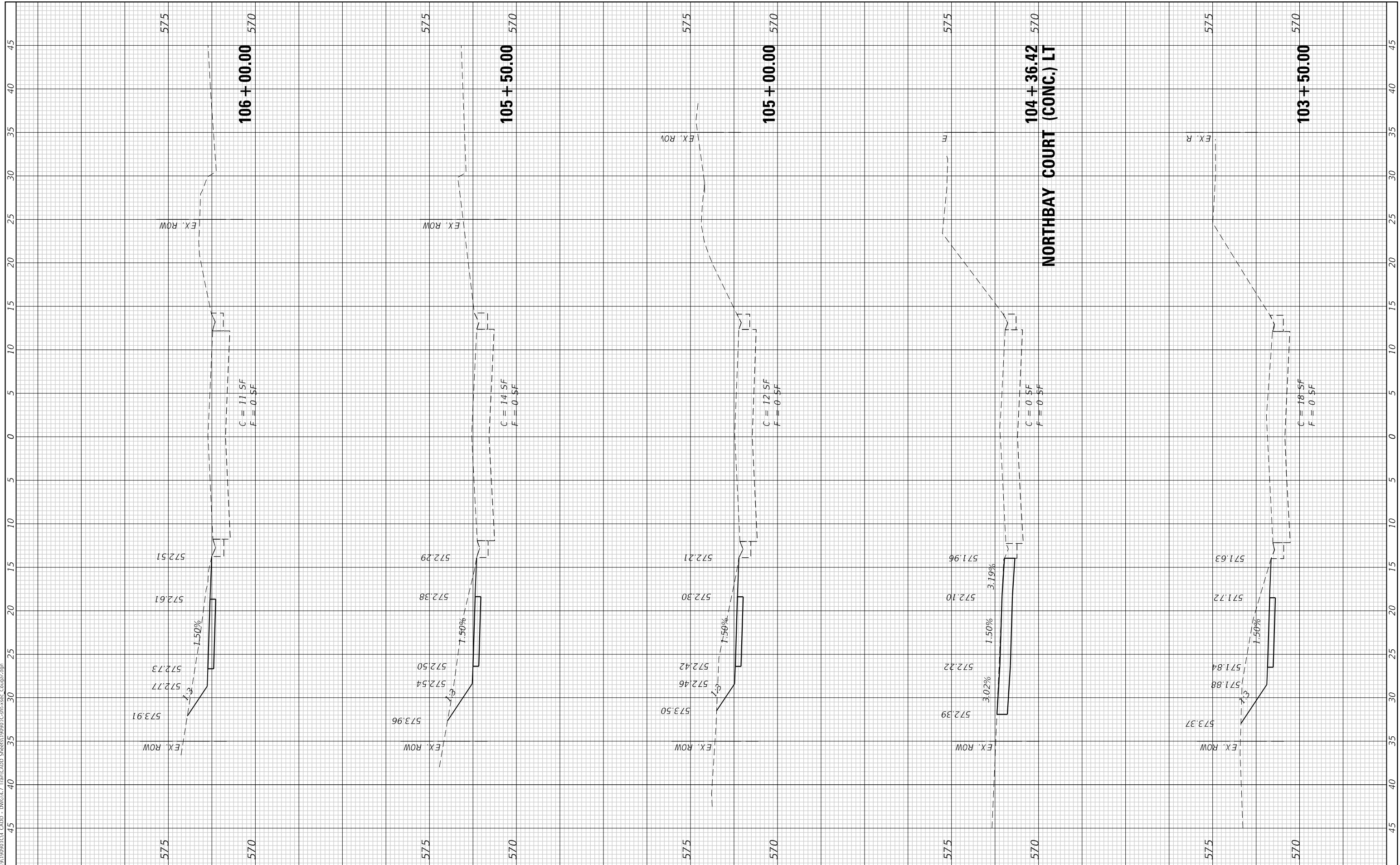


VILLAGE OF GLEN CARBON

CROSS SECTIONS
COUGAR DRIVE

SCALE: 1"=5' SHEET 2 OF 4 SHEETS STA. 103+50.00 TO STA. 106+00.00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	22
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				



106 + 00.00

105 + 50.00

105 + 00.00

104 + 36.42

103 + 50.00

NORTHBAY COURT (CONC.) LT

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F = 0.5F

C = 14 SF
F = 0.5F

C = 12 SF
F = 0.5F

C = 0 SF
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C = 18 SF
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572.61

572.73

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573.91

575

570

572.29

572.38

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572.54

573.96

575

570

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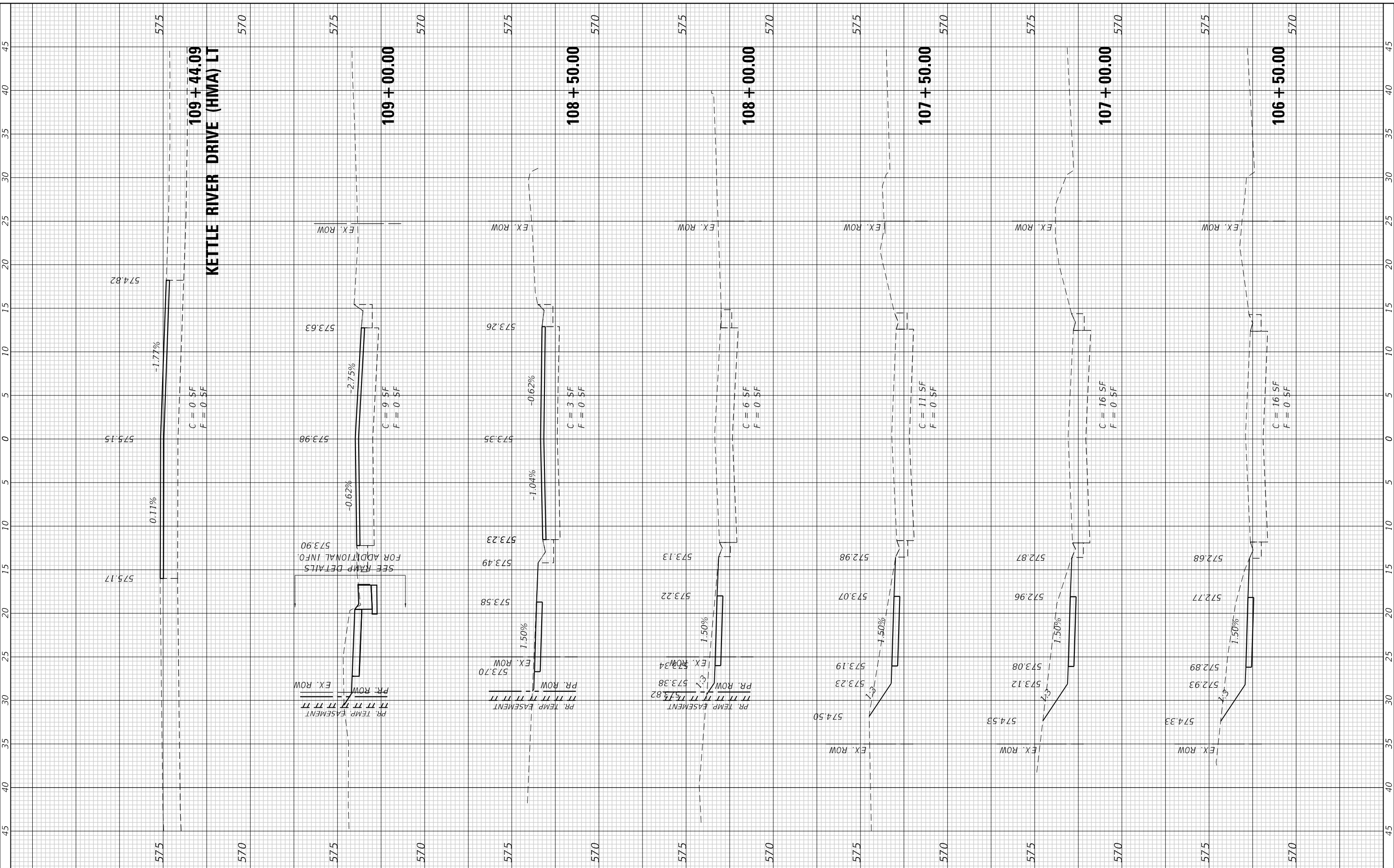
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VILLAGE OF GLEN CARBON

**CROSS SECTIONS
COUGAR DRIVE**

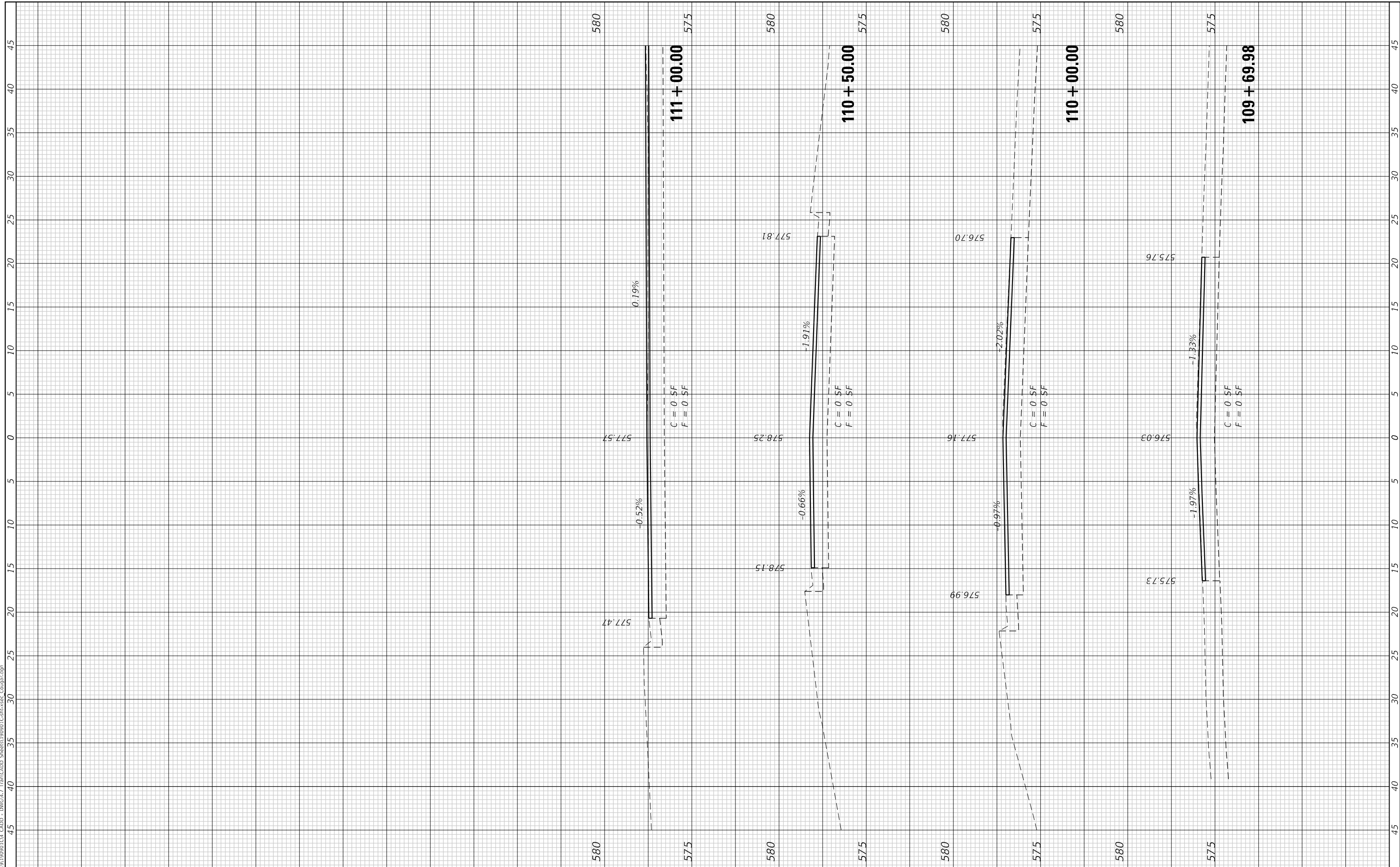
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	23
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE		
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE		
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PLOT SCALE = 10.0000 ' / in.
PLOT DATE = 7/8/2024

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VILLAGE OF GLEN CARBON

CROSS SECTIONS
COUGAR DRIVE

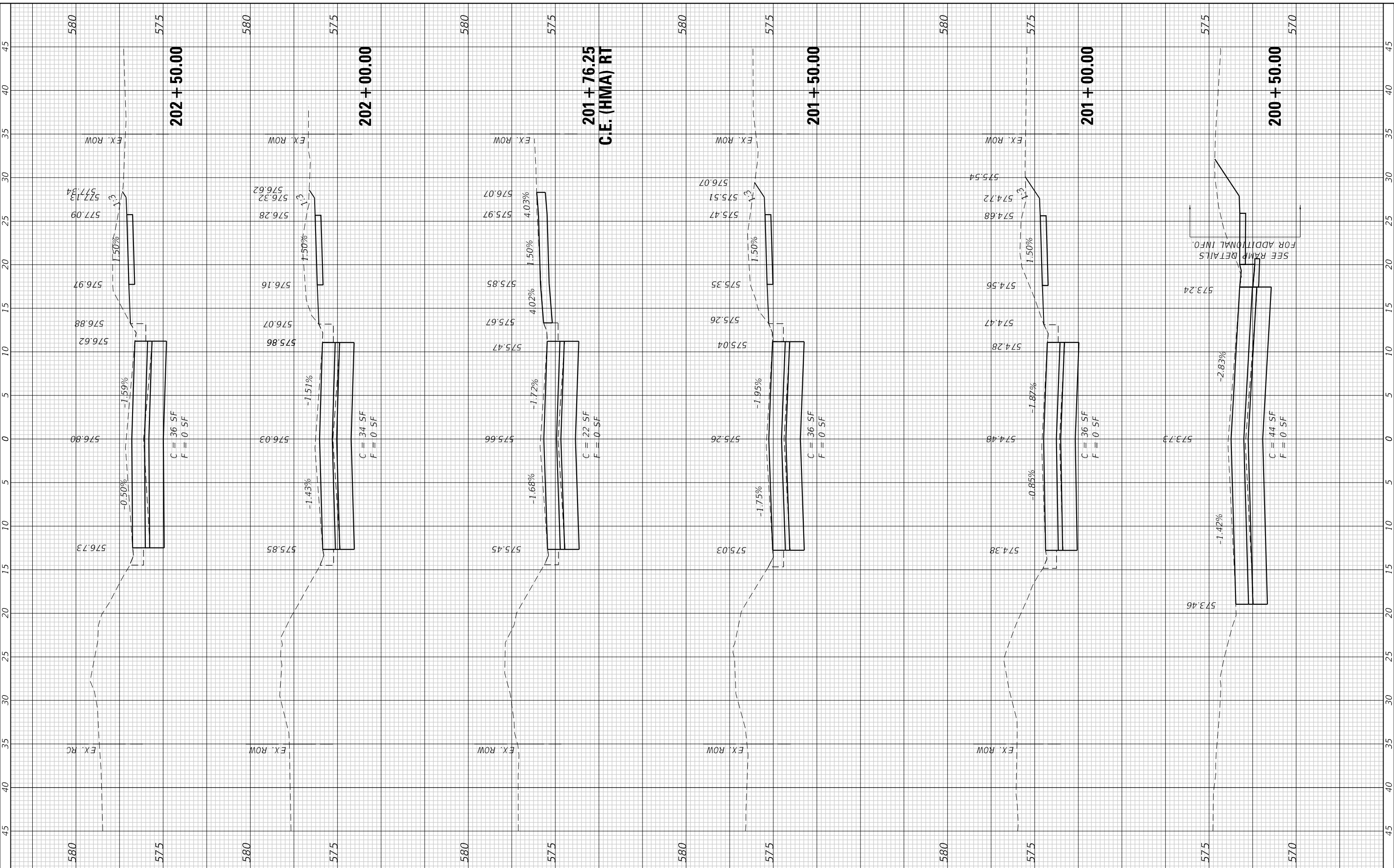
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	24
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
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VILLAGE OF GLEN CARBON

CROSS SECTIONS
 JUNCTION DRIVE

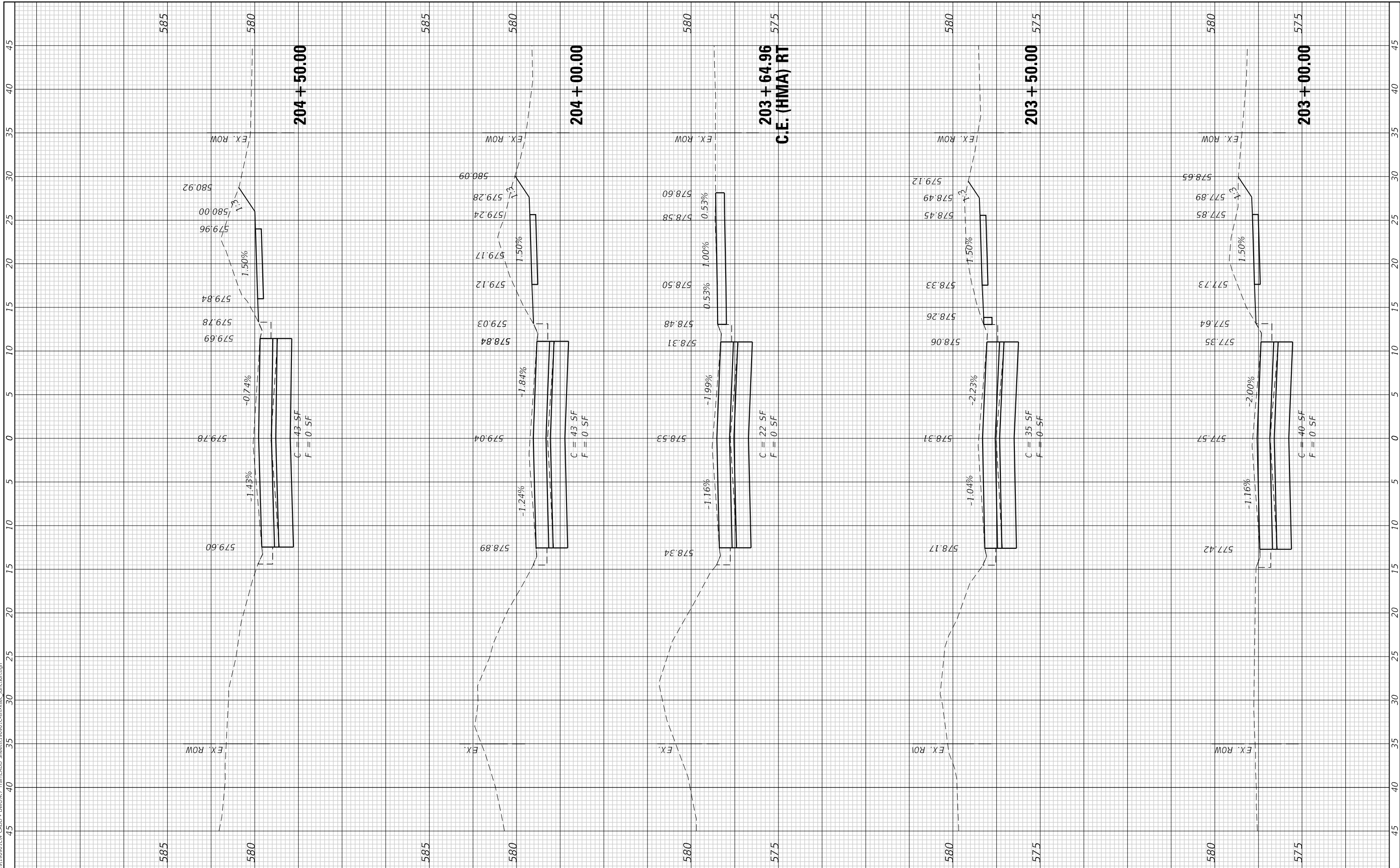
SCALE: 1"=5' SHEET 1 OF 4 SHEETS STA. 200+50.00 TO STA. 202+50.00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	25
CONTRACT NO. 97843			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
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VILLAGE OF GLEN CARBON

CROSS SECTIONS
 JUNCTION DRIVE

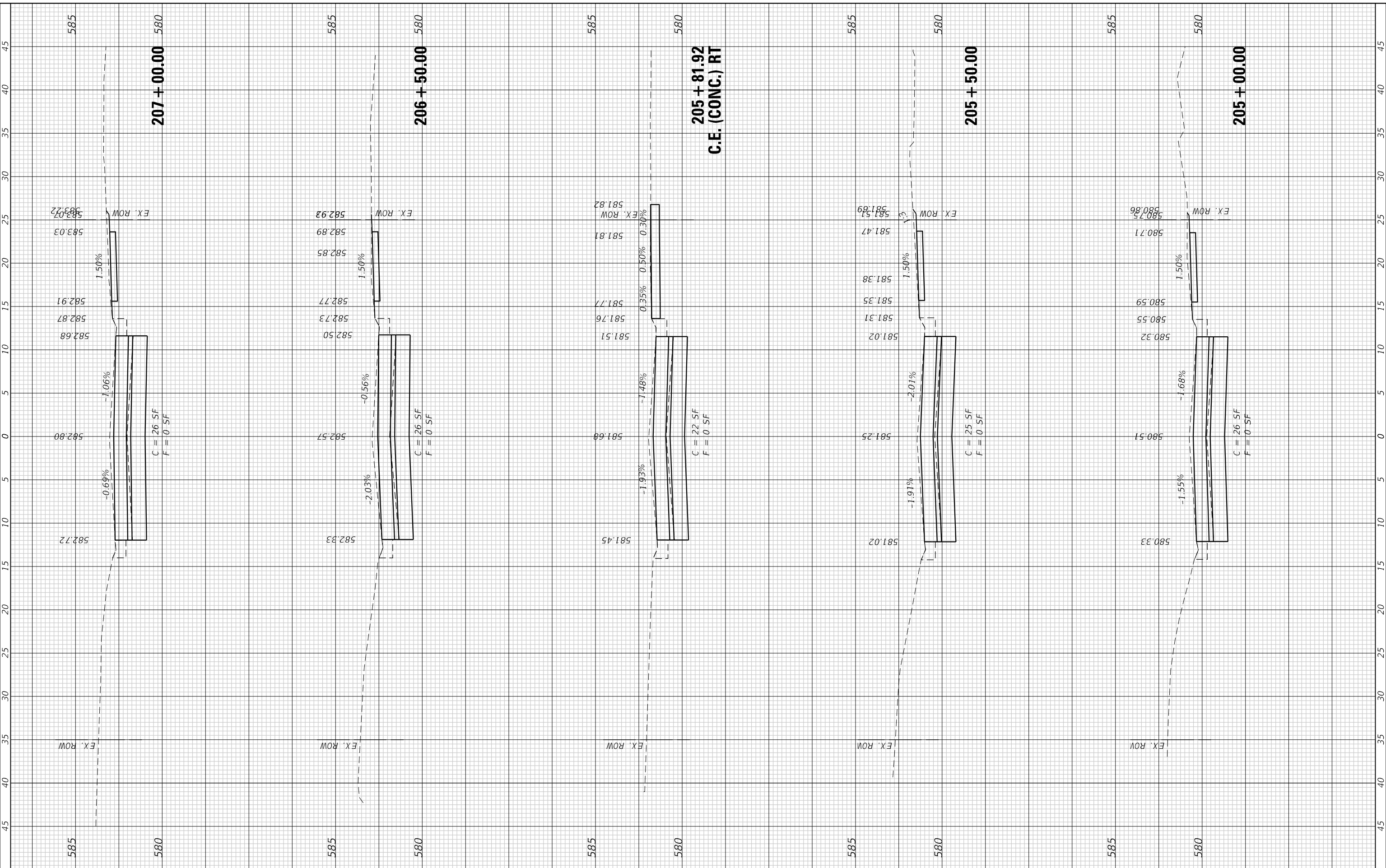
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	26
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: D:\mair FILE NAME: P:\2019\19199901\CA_CADD - DWG\6.4.7 TransCAD Streets\199901\CA-Transces Junction.dwg



TWM ENGINEERING GEOSPATIAL SERVICES
TWM, INC. www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	kostermiller
PLOT SCALE =	10,0000 ' / in.
PLOT DATE =	7/8/2024

DESIGNED -	TMG
DRAWN -	TMG
CHECKED -	XXX
DATE -	11/2021

REVISED -	
REVISED -	
REVISED -	
REVISED -	



VILLAGE OF GLEN CARBON

SCALE: 1"=5'	SHEET 3	OF 4 SHEETS	STA. 205+00.00	TO STA. 207+00.00
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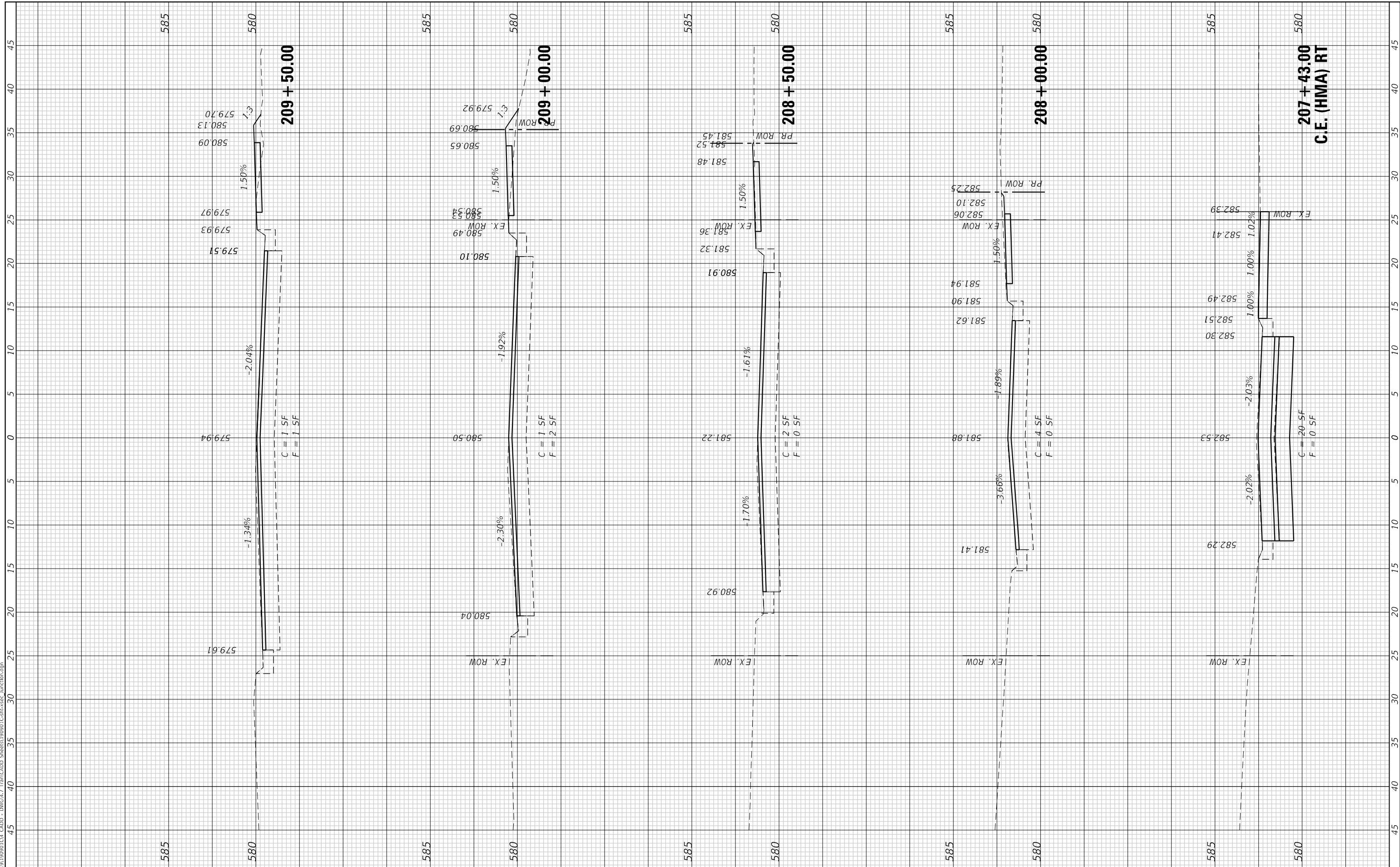
**CROSS SECTIONS
 JUNCTION DRIVE**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97843	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: D:\nair FILE NAME: P:\2019\19990104_CADD - DWG\4.7_Tran\CADD Sheets\19990104-rt-sec-junction.dwg



TWM ENGINEERING GEOSPATIAL SERVICES
 TWM, INC. www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = kostermiller	DESIGNED - TMG	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN - TMG	REVISD -
PLOT DATE = 7/8/2024	CHECKED - XXX	REVISD -
	DATE - 11/2021	REVISD -



VILLAGE OF GLEN CARBON

SCALE: 1"=5'	SHEET 4	OF 4 SHEETS	CROSS SECTIONS JUNCTION DRIVE	STA. 207+43.00 TO STA. 209+50.00
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00031-00-RS	MADISON	28	28
CONTRACT NO. 97843				
ILLINOIS FED. AID PROJECT				