

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	1
		ILLINOIS	CONTRACT NO. 97793	

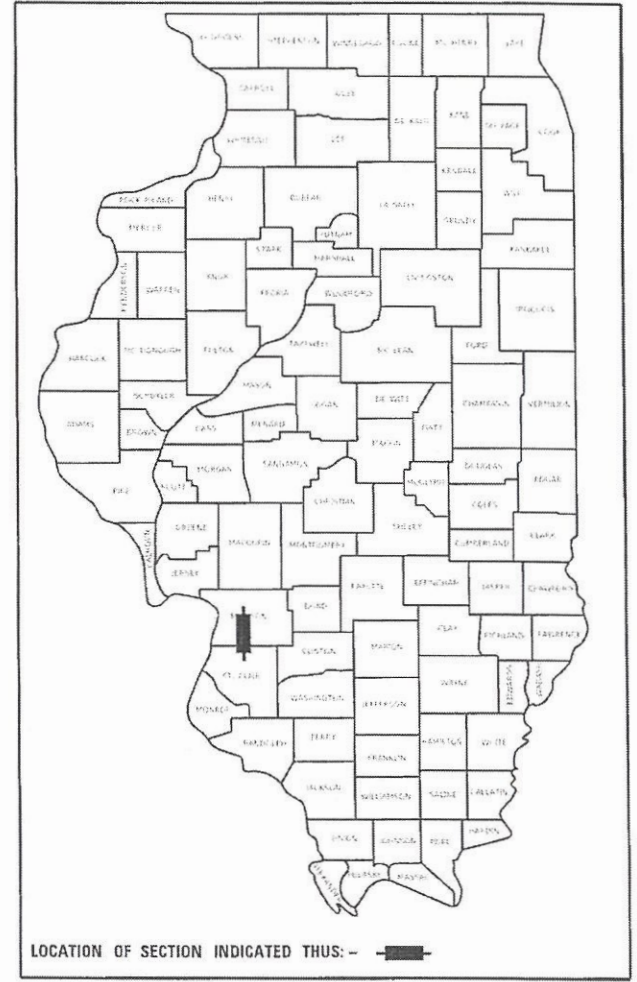
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

CMAQ FUNDS
FAP ROUTE 600 (IL ROUTE 159)
FAU ROUTE 8896 (GLEN CARBON ROAD /COTTONWOOD ROAD)
SECTION 19-00025-01-PW
PROJECT NO. FXD(977)
INTERSECTION IMPROVEMENTS
VILLAGE OF GLEN CARBON
MADISON COUNTY
C-98-025-21



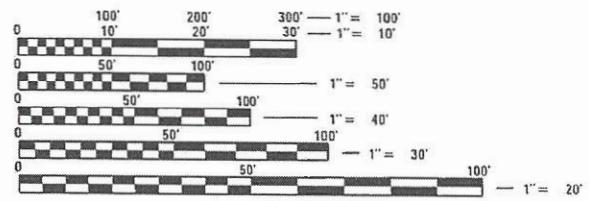
DESIGN DESIGNATION

ROADWAY CLASSIFICATION: OTHER PRINCIPAL ARTERIAL (IL 159) / MINOR ARTERIAL (GLEN CARBON RD)

DESIGN SPEED: 50 MPH (IL 159) / 45 MPH (GLEN CARBON RD)

CURRENT ADT (2022): 29,200 VPD (IL 159) / 8,850 VPD (GLEN CARBON RD)

DESIGN YEAR ADT (2042): 35,600 VPD (IL 159) / 10,800 VPD (GLEN CARBON RD)



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.

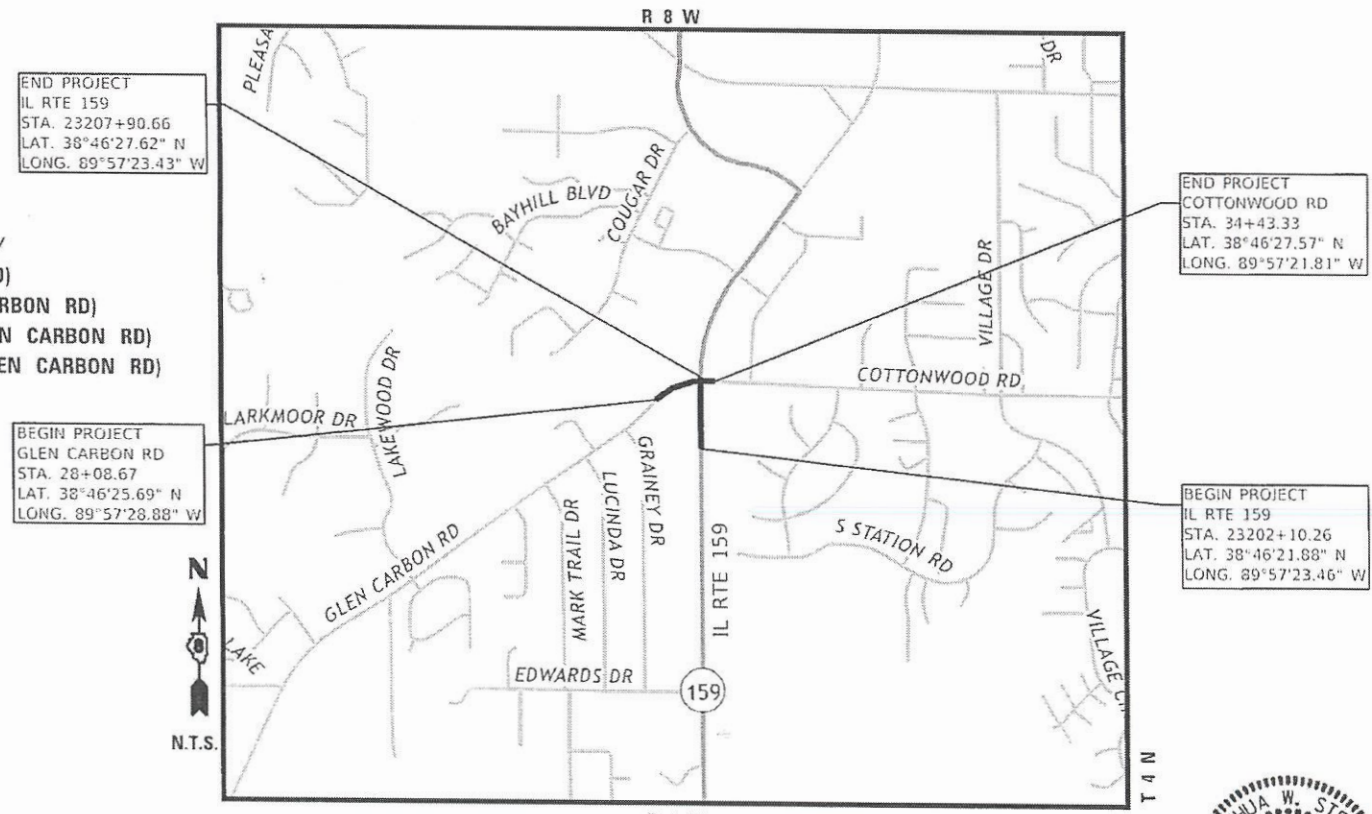
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

CONTRACT NO: 97793

TWM
ENGINEERING
GEOSPATIAL SERVICES

PLANS PREPARED BY:
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
www.twm-inc.com

Illinois Professional Design Firm
No. 184-001220
License Expires: 4/30/2025
ILLINOIS - MISSOURI - TENNESSEE



END PROJECT
IL RTE 159
STA. 23207+90.66
LAT. 38°46'27.62" N
LONG. 89°57'23.43" W

BEGIN PROJECT
GLEN CARBON RD
STA. 28+08.67
LAT. 38°46'25.69" N
LONG. 89°57'28.88" W

END PROJECT
COTTONWOOD RD
STA. 34+43.33
LAT. 38°46'27.57" N
LONG. 89°57'21.81" W

BEGIN PROJECT
IL RTE 159
STA. 23202+10.26
LAT. 38°46'21.88" N
LONG. 89°57'23.46" W

LOCATION MAP

GROSS/NET LENGTH
IL RTE 159 = 571.48 FT = 0.108 MILES
GLEN CARBON RD = 435.37 FT = 0.082 MILES



JOSHUA W. STEIN, P.E.
LICENSE NO. 062-062775
8-15-24
EXPIRATION DATE 11-30-2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	8/15/20 24
GLEN CARBON PRESIDENT BOARD OF TRUSTEES	
PASSED	8/22 20 24
DISTRICT 8 ENGINEER LOCAL ROADS & STREETS	
RELEASED FOR BID BASED ON LIMITED REVIEW	8/22 20 24
 REGION FIVE ENGINEER	

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GENERAL NOTES

- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.
- HORIZONTAL CONTROL IS BASED ON THE STATE PLANE COORDINATES SYSTEM.
- IT IS NOT WARRANTED THAT THIS DOCUMENT CONTAINS COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHT-OF-WAYS, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND VILLAGE OF GLEN CARBON AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.

UTILITIES

- 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.
- UNLESS NOTED OTHERWISE, THE TYPE, SIZE, DEPTH, AND LOCATION OF EXISTING GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER FACILITIES AS DELINEATED ON THE PLANS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS BUILTS" OR RECORD DRAWINGS, FIELD SURVEY ON J.U.L.I.E. MARKED UTILITIES, OR FIELD SURVEY OF ABOVE GROUND SUBSURFACE UTILITY FEATURES. THEREFORE THEIR EXACT LOCATION, SIZE AND FUNCTION MUST BE CONSIDERED APPROXIMATE. THE EXISTING LOCATION OF ALL UNDERGROUND ELECTRIC, TELEPHONE, CABLE, SANITARY SEWER LINES AND GAS MAINS HAVE BEEN APPROXIMATED AT MINIMUM DEPTHS OF 30", 24", 24", 30", AND 36", RESPECTIVELY.
- 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/HER OPERATIONS IN ORDER THAT, THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THE PROJECT MAY PROGRESS IN A REASONABLE MANNER.
- UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT ARE:

AMEREN IP
AT&T
CHARTER COMMUNICATIONS
VILLAGE OF GLEN CARBON

THE FOLLOWING MEMBERS ARE NOT MEMBERS OF J.U.L.I.E.:
IDOT
- IDOT UTILITY NOTE:
THE DEPARTMENT IS NOT A MEMBER OF J.U.L.I.E. AND DOES NOT LOCATE ITS OWN FACILITIES (SUCH AS UNDERGROUND CONDUIT AND/OR CABLE FOR TRAFFIC SIGNALS OR HIGHWAY LIGHTS). THE APPLICANT, AT HIS/HER OWN EXPENSE, MUST OBTAIN THE SERVICES OF A QUALIFIED ELECTRICAL CONTRACTOR TO LOCATE SUCH STATE OWNED FACILITIES.
- REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

DRAINAGE AND EROSION CONTROL

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE DURING VARIOUS STAGES OF CONSTRUCTION. THIS INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS USED BEYOND WHAT IS SPECIFIED IN THE PLANS. NECESSARY ITEMS SUCH AS TEMPORARY DITCHES OR PIPES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- EROSION AND SEDIMENT CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EROSION AND SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENT DOES MIGRATE OFF SITE OR IF EROSION CONTROL DEVICES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR OR REPLACE DEVICES TO ENSURE 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.
- EXISTING DITCHES/ SWALES WILL NEED TO BE REGRADED/ SHAPED TO ENSURE ALL FLOWS ENTER THE PROPER DITCH, CROSS ROAD CULVERT, POND, OR OTHER DRAINAGE APPURTENANCES, UNLESS OTHERWISE INDICATED. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTHWORK, UNLESS NOTED OTHERWISE.
- 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 COST OF VARIOUS DRAINAGE STRUCTURE PAY ITEMS.
- ALL CLASS A STORM SEWER SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL

- ALL CONSTRUCTION SIGNS SHALL BE 48" FLUORESCENT ORANGE.
- FLUORESCENT ORANGE 'ROAD CONSTRUCTION AHEAD' SIGNS (48"x48") SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS/STREETS AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL NOT BE MEASURED FOR PAYMENT. COST SHALL BE INCLUDED IN THE VARIOUS TRAFFIC CONTROL PAY ITEMS.
- ANY EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRIERS AND APPROPRIATE LIGHTS OR BY OTHER MEANS IN ACCORDANCE WITH SECTION 701.
- NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED ON IL ROUTE 159 OR GLEN CARBON ROAD. IF THE CONTRACTOR CHOOSES TO DEVIATE FROM THESE RESTRICTIONS, THE CONTRACTOR MUST CONTACT IDOT AND THE VILLAGE OF GLEN CARBON AND ACQUIRE APPROVAL.

SIGNS

- SIGNS NOT RESURRECTED WILL REVERT BACK TO THE RESPONSIBLE PARTY, WHETHER IT BE THE VILLAGE OF GLEN CARBON OR THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ANY DAMAGE TO EXISTING SIGNS IN STORAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ENGINEER WILL CONTACT APPROPRIATE AGENCY FOR SIGN RETURN. FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNS.
- EXISTING SIGNS SHALL BE REMOVED, STORED, AND RESURRECTED AS SHOWN IN THE PLANS.

PROPERTY OWNER ACCESS REQUIREMENTS

- ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH A COPY GIVEN TO THE PROPERTY OWNERS AND 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.

SIDEWALKS

- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING THE PROPOSED SIDEWALK AND ADJOINING RAMPS IN ACCORDANCE WITH APPLICABLE ADA STANDARDS.
- ALL DETECTABLE WARNINGS PANELS SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS.

COMMITMENTS

NONE

IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
602301-04	INLET, TYPE A
602306-03	INLET, TYPE B
602401-07	PRECAST MANHOLE, TYPE A, 4' DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE, TYPE 3
604036-03	GRATE, TYPE 8
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
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
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
838001-01	BREAKAWAY DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

HMA MIXTURE REQUIREMENTS

LOCATIONS:	FAP 600 AND FAU 8896		
MIXTURE USE(S):	FULL-DEPTH SURFACE	FULL-DEPTH TOP BINDER	FULL-DEPTH LOWER BINDER
PG:	SBS 70-22	SBS 70-22	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-19,0
FRICTION AGGREGATE:	MIXTURE "E"		
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN	112 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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PLOT DATE = 12/16/2024	DATE - DEC 2024	REVISED -



GENERAL NOTES, HWY STANDARDS, AND COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	
				CONTRACT NO. 97793
		ILLINOIS	FED. AID PROJECT	

				VILLAGE OF GLEN CARBON		
				CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA
				0004	0021	0021
				URBAN	URBAN	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6	0	0
20200100	EARTH EXCAVATION	CU YD	875	875	0	0
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5	0	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	50	50	0	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	50	50	0	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	50	50	0	0
25100115	MULCH, METHOD 2	ACRE	0.5	0.5	0	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	0	0
28000305	TEMPORARY DITCH CHECKS	FOOT	20	20	0	0
28000500	INLET AND PIPE PROTECTION	EACH	13	13	0	0
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	1298	1298	0	0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3232	3232	0	0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	323	323	0	0
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	971	971	0	0
40604072	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	161	161	0	0

Δ SPECIALTY ITEMS

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PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 1 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	3
CONTRACT NO. 97793				
ILLINOIS		FED. AID PROJECT		

				VILLAGE OF GLEN CARBON		
				CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA
				0004	0021	0021
				URBAN	URBAN	URBAN
42001300	PROTECTIVE COAT	SQ YD	646	646	0	0
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	3431	0	0	3431
42400800	DETECTABLE WARNINGS	SQ FT	80	0	0	80
44000100	PAVEMENT REMOVAL	SQ YD	306	306	0	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	258	258	0	0
44000300	CURB REMOVAL	FOOT	159	159	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	764	764	0	0
44000600	SIDEWALK REMOVAL	SQ FT	2973	0	0	2973
44004250	PAVED SHOULDER REMOVAL	SQ YD	691	691	0	0
54248510	CONCRETE COLLAR	CU YD	0.3	0.3	0	0
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	157	157	0	0
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	91	91	0	0
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	80	80	0	0
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	3	3	0	0
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1	0	0

Δ SPECIALTY ITEMS

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PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 2 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	4
CONTRACT NO. 97793			ILLINOIS FED. AID PROJECT	

				VILLAGE OF GLEN CARBON		
				CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA
				0004	0021	0021
				URBAN	URBAN	URBAN
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2	2	0	0
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1	1	0	0
60260100	INLETS TO BE ADJUSTED	EACH	1	1	0	0
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	0	0
60500060	REMOVING INLETS	EACH	2	2	0	0
60500090	REMOVING INLETS TO MAINTAIN FLOW	EACH	1	1	0	0
60600605	CONCRETE CURB, TYPE B	FOOT	62	62	0	0
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1069	1069	0	0
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	44	44	0	0
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	94	94	0	0
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	245	245	0	0
Δ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	230	230	0	0
Δ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	0	0
Δ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	0	0
Δ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	0	0

Δ SPECIALTY ITEMS

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PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 3 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	5
CONTRACT NO. 97793			ILLINOIS FED. AID PROJECT	

					VILLAGE OF GLEN CARBON		
					CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA	
				0004	0021	0021	
				URBAN	URBAN	URBAN	
Δ 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2	0	0	
67100100	MOBILIZATION	L SUM	1	0.9	0.05	0.05	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	209	209	0	0	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	87	87	0	0	
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	130	130	0	0	
70300231	TEMPORARY PAVEMENT MARKING - LINE 5"- PAINT	FOOT	1459	1459	0	0	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	258	258	0	0	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	213	213	0	0	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	292	292	0	0	
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	27.25	8.00	19.25	0	
Δ 72000200	SIGN PANEL - TYPE 2	SQ FT	13.00	0	13.00	0	
Δ 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	13.75	0	13.75	0	
Δ 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	0	0	
Δ 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	3.76	0	3.76	0	
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	31	31	0	0	

Δ SPECIALTY ITEMS

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PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	6
CONTRACT NO. 97793				
ILLINOIS		FED. AID PROJECT		

					VILLAGE OF GLEN CARBON		
					CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA	
				0004	0021	0021	
				URBAN	URBAN	URBAN	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	40	40	0	0	
Δ 78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LETTERS AND SYMBOLS	SQ FT	130	130	0	0	
Δ 78004625	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D- LINE 5"	FOOT	1459	1459	0	0	
Δ 78004640	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 8"	FOOT	258	258	0	0	
Δ 78004660	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 12"	FOOT	213	213	0	0	
Δ 78004720	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 24"	FOOT	292	292	0	0	
Δ 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	130	130	0	0	
Δ 78011030	GROOVING FOR RECESSED PAVEMENT MARKING 6"	FOOT	1459	1459	0	0	
Δ 78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	258	258	0	0	
Δ 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	213	213	0	0	
Δ 78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	292	292	0	0	
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9	0	0	
Δ 78200020	CURB REFLECTORS	EACH	54	18	0	36	
Δ 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2885	2885	0	0	
Δ 80300100	LOCATING UNDERGROUND CABLE	FOOT	570	0	570	0	

Δ SPECIALTY ITEMS

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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
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PLOT SCALE = 40,0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 5 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	7
CONTRACT NO. 97793			ILLINOIS FED. AID PROJECT	

					VILLAGE OF GLEN CARBON		
					CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA	
				0004	0021	0021	
				URBAN	URBAN	URBAN	
Δ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	38	0	38	0	
Δ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40	0	40	0	
Δ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	126	0	126	0	
Δ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	112	0	112	0	
Δ 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	156	0	156	0	
Δ 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	63	0	63	0	
Δ 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3	0	3	0	
Δ 81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	10	0	10	0	
Δ 81400100	HANDHOLE	EACH	2	0	2	0	
Δ 81400300	DOUBLE HANDHOLE	EACH	1	0	1	0	
Δ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1220	0	1220	0	
Δ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1220	0	1220	0	
Δ 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1112	0	1112	0	
Δ 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2027	0	2027	0	
Δ 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1981	0	1981	0	

Δ SPECIALTY ITEMS

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PLOT SCALE = 40,0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 6 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	8
CONTRACT NO. 97793				
ILLINOIS		FED. AID PROJECT		

				VILLAGE OF GLEN CARBON		
				CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA
				0004	0021	0021
				URBAN	URBAN	URBAN
Δ 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	111	0	111	0
Δ 87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2	0	2	0
Δ 87700400	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	2	0	2	0
Δ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6	0	6	0
Δ 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42	0	42	0
Δ 87900200	DRILL EXISTING HANDHOLE	EACH	1	0	1	0
Δ 88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	0	1	0
Δ 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2	0	2	0
Δ 88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	0	2	0
Δ 88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	0	2	0
Δ 88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	0	2	0
Δ 88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1	0	1	0
Δ 88200300	TRAFFIC SIGNAL BACKPLATE, PLASTIC	EACH	5	0	5	0
Δ 88500520	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY AND CALL CARRY-OVER, DIGITAL DESIGN	EACH	7	0	7	0
Δ 88600100	DETECTOR LOOP, TYPE I	FOOT	1301	0	1301	0

Δ SPECIALTY ITEMS

MODEL D:\64\11\1809054\CADD - DWG\4.7_TrafficCADD_Sheet11809054-PL-500.dgn



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SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 7 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

					VILLAGE OF GLEN CARBON		
					CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA	
				0004	0021	0021	
				URBAN	URBAN	URBAN	
Δ 89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1	0	1	0	
Δ 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4	0	4	0	
Δ 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	4	0	4	0	
Δ 89502100	REBUILD EXISTING SIGNAL HEAD	EACH	1	0	1	0	
Δ 89502200	MODIFY EXISTING CONTROLLER	EACH	1	0	1	0	
Δ 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6544	0	6544	0	
Δ 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	0	4	0	
Δ 89502380	REMOVE EXISTING HANDHOLE	EACH	2	0	2	0	
Δ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	0	4	0	
Δ Z0036200	PAINT CURB	FOOT	277	277	0	0	
X1700066	POTHOLING	EACH	25	25	0	0	
X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	206	206	0	0	
X5510100	STORM SEWER REMOVAL	FOOT	161	161	0	0	
X6024242	INLETS, SPECIAL, NO. 1	EACH	1	1	0	0	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.4	0.1	

Δ SPECIALTY ITEMS

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 PLOT SCALE = 40,0000 ' / in.
 PLOT DATE = 8/15/2024

REVISED -
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 REVISED -



SUMMARY OF QUANTITIES

SCALE: NTS SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	10
			CONTRACT NO. 97793	
		ILLINOIS	FED. AID PROJECT	

				VILLAGE OF GLEN CARBON		
				CMAQ - 20% LOCAL / 80% FED		
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	ADA
				0004	0021	0021
				URBAN	URBAN	URBAN
Δ X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	0	1	0
Δ X8140215	HEAVY-DUTY HANDHOLE TO BE ADJUSTED	EACH	1	0	1	0
Δ X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	198	0	198	0
# Z0076600	TRAINEES	HOUR	500			
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			

Δ SPECIALTY ITEMS # 0042

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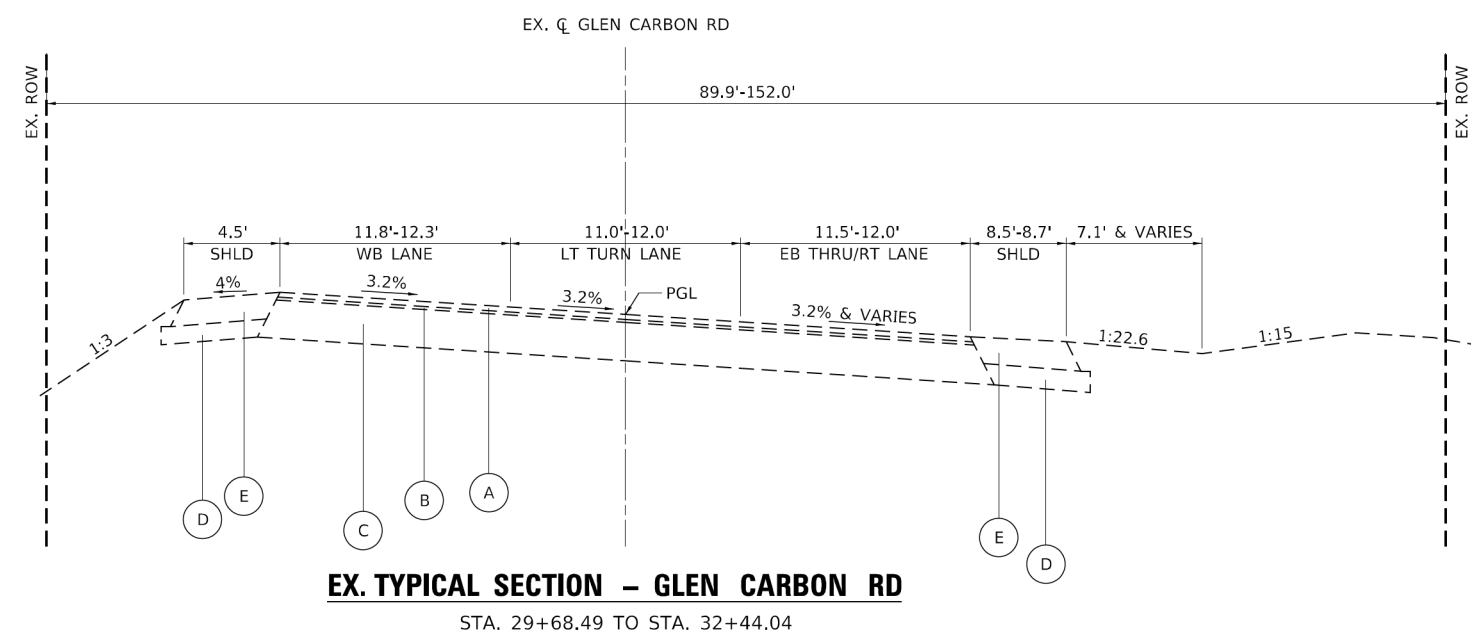
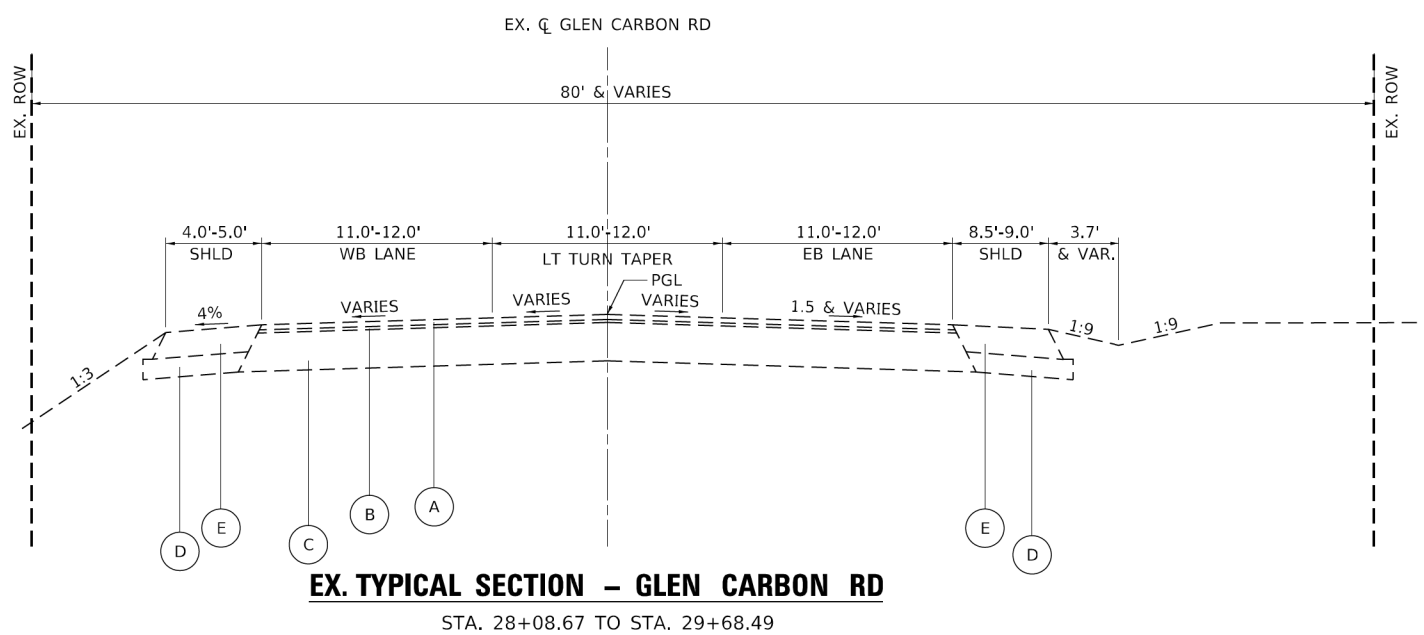
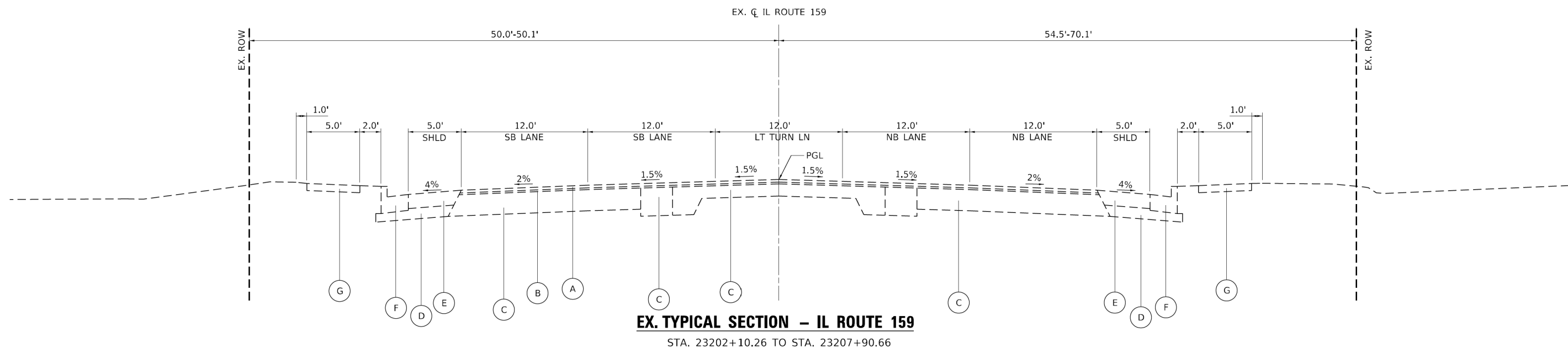


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PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 9	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	11
				CONTRACT NO. 97793
ILLINOIS FED. AID PROJECT				



LEGEND

- | | |
|-----------------------------------------|------------------------------------------------------|
| (A) EX. SURFACE | (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 2" |
| (B) EX. LEVELING BINDER | (2) PR. HMA BINDER COURSE, IL-19.0, N70, 12" |
| (C) EX. PAVEMENT | (3) PR. SUBBASE GRANULAR MATERIAL, TY A, 12" |
| (D) EX. SUBBASE GRANULAR MATERIAL, TY C | (4) PR. COMB. CONC. C&G, TY B-6.24 |
| (E) EX. HMA SHOULDER | (5) NOT USED |
| (F) EX. COMB. CONC. C&G TY B-6.24 | (6) NOT USED |
| (G) EX. PCC SIDEWALK, 4" | (7) PR. PCC SIDEWALK, 4" |

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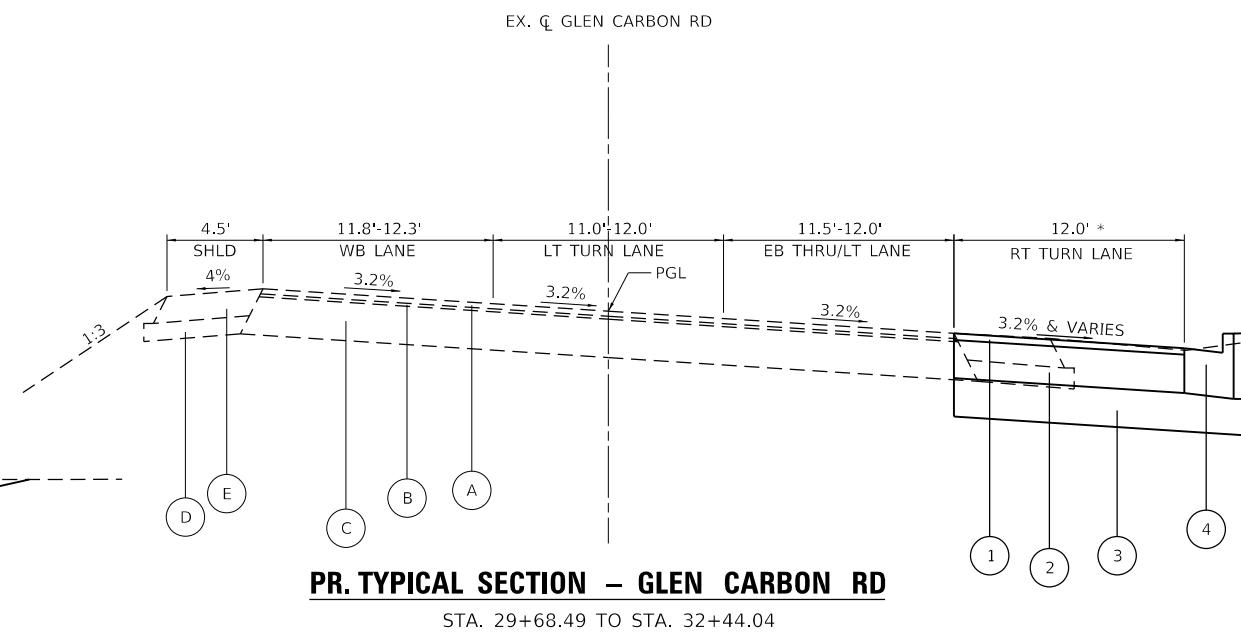
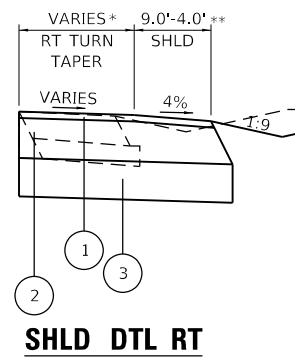
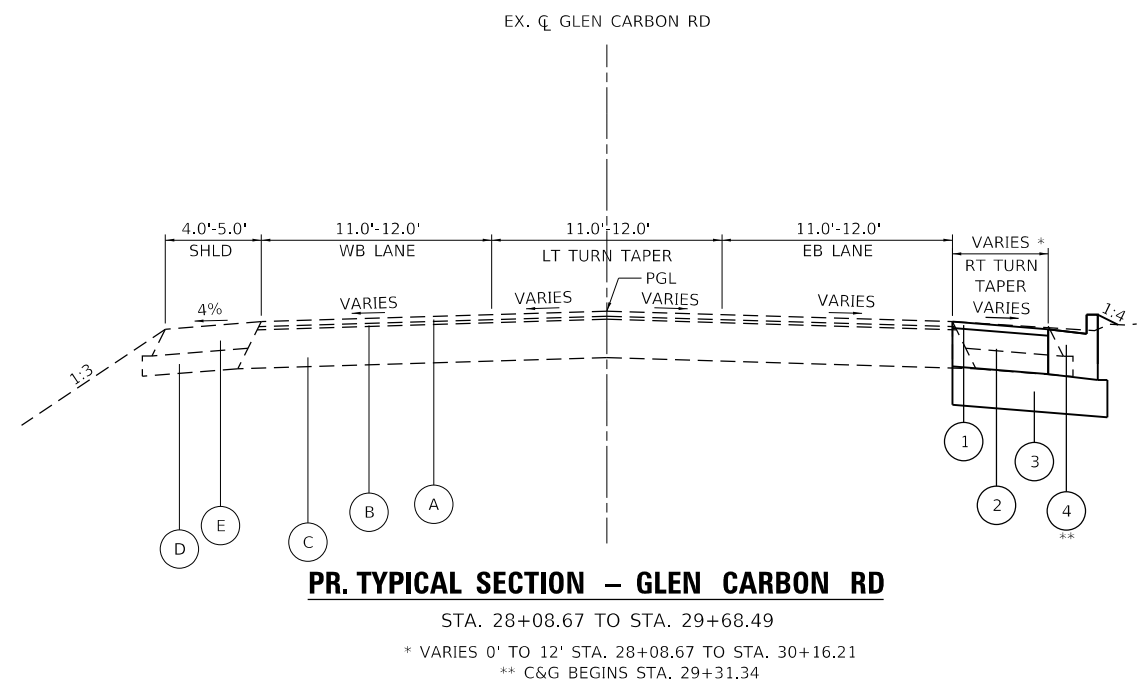
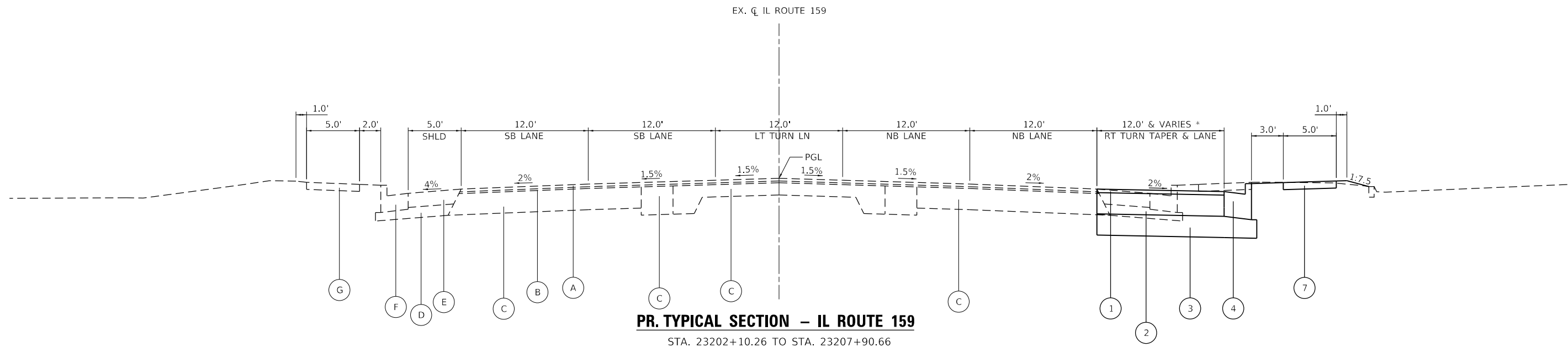


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PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



EXISTING TYPICAL SECTIONS			
SCALE: NTS	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 12
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



LEGEND

- | | |
|-----------------------------------------|------------------------------------------------------|
| (A) EX. SURFACE | (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 2" |
| (B) EX. LEVELING BINDER | (2) PR. HMA BINDER COURSE, IL-19.0, N70, 12" |
| (C) EX. PAVEMENT | (3) PR. SUBBASE GRANULAR MATERIAL, TY A, 12" |
| (D) EX. SUBBASE GRANULAR MATERIAL, TY C | (4) PR. COMB. CONC. C&G, TY B-6.24 |
| (E) EX. HMA SHOULDER | (5) NOT USED |
| (F) EX. COMB. CONC. C&G TY B-6.24 | (6) NOT USED |
| (G) EX. PCC SIDEWALK, 4" | (7) PR. PCC SIDEWALK, 4" |

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

USER NAME = mschwierjohn
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DATE - AUG 2022

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REVISED -
REVISED -
REVISED -



PROPOSED TYPICAL SECTIONS
SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	13
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

CURB AND GUTTER AND ISLAND SCHEDULE												
LOCATION				COMBINATION CONCRETE CURB AND GUTTER			CONCRETE CURB TYPE B	PROTECTIVE COAT *	CURB REFLECTORS	CONCRETE MEDIAN SURFACE, 4 INCH	PAINT CURB	
				TYPE M-6.06	TYPE M-6.24	TYPE B-6.24					WHITE	
STATION	TO	STATION		FOOT	FOOT	FOOT	FOOT	SQ YD	EACH	SQ FT	FOOT	
IL ROUTE 159												
23202+10.26	TO	23203+17.69	RT			107.4		36.8				
23202+10.26	TO	23203+23.26	RT			20.4		7.0				
23202+57.76	TO	23202+70.76	RT			20.4		7.0				
23203+17.69	TO	23204+39.13	RT			121.6		41.6				
23203+95.03	TO	23204+03.52	RT			23.1		7.9				
23204+38.30	TO	23204+47.59	RT			21.2		7.3				
23204+39.13	TO	23207+13.42	RT			274.3		93.9				
23207+00.44	TO	23207+55.34	LT			70.1		24.0				
23207+13.42	TO	23207+71.82	RT			74.7		25.6				
23207+65.82	TO	23207+78.51	LT	REFUGE ISLAND	23.7			4.2			47.4	
23207+65.82	TO	23207+86.61	LT	REFUGE ISLAND		26.3		9.0			52.6	
23207+66.07	TO	23207+85.61	LT	REFUGE ISLAND				16.7	27	149.91		
23207+68.71	TO	23207+79.28	RT	REFUGE ISLAND				10.6	27	95.52		
23207+68.93	TO	23207+84.38	RT	REFUGE ISLAND	20.7			3.6			41.4	
23207+68.93	TO	23207+88.44	RT	REFUGE ISLAND		25.3		8.7			50.6	
GLEN CARBON ROAD												
29+20.45	TO	29+30.90	RT				13.5	1.5				
29+30.90	TO	31+99.95	RT			255.6		87.5				
31+14.86	TO	31+67.50	RT				48.4	5.4				
32+16.53	TO	32+37.92	RT	REFUGE ISLAND		24.7		8.5			49.4	
COTTONWOOD ROAD												
33+19.86	TO	33+34.24	RT	REFUGE ISLAND		17.7		6.1			35.4	
33+65.75	TO	34+43.38	RT			79.7		27.3				
SUB-TOTAL:					44	94	1069	62	440	54	245	277
FROM ENTRANCE SCHEDULE								206				
TOTAL:					44	94	1069	62	646	54	245	277

*SEE ENTRANCE SCHEDULE FOR ADDITIONAL QUANTITY

EROSION CONTROL SCHEDULE						
STATION				INLET AND PIPE PROTECTION	TEMPORARY DITCH CHECKS	
				EACH	FOOT	
IL ROUTE 159						
	23202+65.38	59.89	RT	1		
	23202+74.56	37.59	RT	1		
	23204+49.79	59.08	RT	1		
	23205+91.43	57.87	RT	1		
STR. P-1	23206+88.42	46.08	RT	1		
STR. P-2	23206+88.42	64.78	RT	1		
	23207+12.45	64.07	RT			10
STR. P-3	23207+25.00	45.62	RT	1		
GLEN CARBON ROAD						
STR. P-8	31+00.00	32.75	RT	1		
	31+67.87	49.45	RT			10
STR. P-7	31+75.00	52.33	RT	1		
	31+86.00	41.20	RT	1		
	32+21.00	64.68	RT	1		
COTTONWOOD ROAD						
	33+55.93	40.71	RT	1		
	34+50.32	21.88	RT	1		
TOTAL:				13		20

SIDEWALK SCHEDULE				
LOCATION			PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	DETECTABLE WARNING
STATION	LT/RT	SQ FT	SQ FT	
IL ROUTE 159				
23202+11.33	TO	23202+20.00	RT	52.0
23202+60.98	TO	23204+01.85	RT	720.2
23204+40.42	TO	23204+81.68	RT	213.5
23204+81.68	TO	23204+86.68	RT	40.0
23204+86.68	TO	23207+23.90	RT	1186.1
23207+23.90	TO	23207+31.47		45.4
23207+00.43	TO	23207+47.07	LT	450.9
23207+46.71	TO	23207+48.37	LT	
23207+59.00	TO	23207+60.43	LT	10.0
23207+66.07	TO	23207+86.13	LT	110.9
23207+68.65	TO	23207+87.85	RT	89.1
23207+70.33	TO	23207+71.99	LT	10.0
23207+75.36	TO	23207+75.52	LT	10.0
23207+80.05	TO	23207+81.48	RT	10.0
23207+81.65	TO	23207+81.81	RT	10.0
23207+82.85	TO	23207+84.84	RT	10.0
23207+85.57	TO	23207+87.57	RT	10.0
COTTONWOOD ROAD				
33+35.07	TO	33+88.42	RT	504.3
33+78.42	TO	33+82.42	RT	18.6
TOTAL:				3431
				80

EARTHWORK SCHEDULE						
LOCATION			EARTH EXCAVATION	FOR INFORMATION ONLY		
				EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD
IL ROUTE 159						
23202+10.26	TO	23207+34.07	487	365	65	300
GLEN CARBON ROAD						
28+08.67	TO	32+00.00	330	248	25	221
COTTONWOOD ROAD						
33+55.29	TO	34+43.33	56	42	26	16
SUB-TOTAL:			873	655	117	539
PAY TOTAL:			875			

SEEDING SCHEDULE								
LOCATION			SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2	TEMP. EROSION CONTROL SEEDING
STATION	TO	STATION	ACRE	POUND	POUND	POUND	ACRE	POUND
IL ROUTE 159								
23202+10.26	TO	23207+82.82	0.50	45.0	45.0	45.0	0.50	100.0
TOTAL:			0.50	45.0	45.0	45.0	0.50	100.0
PAY TOTAL:			0.50	50	50	50	0.50	100

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DATE - AUG 2022

REVISOR -
REVISION -
REVISION -
REVISION -

PLOT SCALE = 2,000' / 1" / in.
PLOT DATE = 8/15/2024



SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	14
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

REMOVAL SCHEDULE											
LOCATION				PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	CURB REMOVAL	DRIVEWAY PAVEMENT REMOVAL	SIDEWALK REMOVAL	REMOVING INLETS	REMOVING INLETS TO MAINTAIN FLOW
STATION	TO	STATION	NOTES	SQ YD	SQ YD	FOOT	FOOT	SQ YD	SQ FT	EACH	EACH
IL ROUTE 159											
23202+10.26	TO	23303+17.75	RT			107.5					
23202+10.26	TO	23206+00.00	RT		229.2						
23202+11.34	TO	23202+22.62	RT						55.9		
23202+11.50	TO	23202+23.21	RT				20.3				
23202+15.89	TO	23202+65.15	RT					53.1			
23202+57.54	TO	23202+69.07	RT				19.2				
23202+58.32	TO	23204+02.89	RT						723.9		
23203+17.75	TO	23206+00.00	RT			282.3					
23203+92.18	TO	23204+03.52	RT				29.4				
23203+96.54	TO	23204+45.47	RT					91.8			
23204+38.30	TO	23204+47.87	RT				27.8				
23204+38.97	TO	23206+00.00	RT						803.6		
23204+47.39			RT							1	
23206+00.00	TO	23207+24.18	RT		76.3						
23206+00.00	TO	23207+53.51	RT						757.5		
23206+00.00	TO	23207+83.98	RT			227.4					
23207+00.43	TO	23207+40.39	LT		22.9						
23207+00.43	TO	23207+59.66	LT						298.2		
23207+00.43	TO	23207+74.98	LT			95.6					
23207+24.18	TO	23207+90.79	RT	190.8							
23207+40.39	TO	23207+89.67	LT	115.7							
23207+85.25			LT								1
GLEN CARBON ROAD											
28+08.67	TO	32+02.10	RT		362.9						
31+15.04	TO	31+67.21	RT				62.3				
28+66.24	TO	29+27.34	RT					65.8			
31+20.34	TO	31+66.93	RT					47.3			
31+89.09			RT							1	
COTTONWOOD ROAD											
33+32.90	TO	33+88.35	RT						333.8		
33+92.38	TO	34+43.33	RT			50.9					
TOTAL :				306	691	764	159	258	2973	2	1

HANDHOLE TO BE ADJUSTED				
LOCATION			HANDHOLE TO BE ADJUSTED	HEAVY-DUTY HANDHOLE TO BE ADJUSTED
STATION	OFFSET	LT/RT	EACH	EACH
IL ROUTE 159				
23204+56.70	51.03'	RT	1	
GLEN CARBON ROAD				
30+34.75	22.11'	RT		1
COTTONWOOD ROAD				
33+40.51	56.64'	RT		
PAY - TOTAL :			1	1

ENTRANCE SCHEDULE				
LOCATION			PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	PROTECTIVE COAT *
STATION	LT/RT	TYPE	SQ YD	SQ YD
IL ROUTE 159				
23202+40.51	RT	CE	47.3	47.3
23204+21.09	RT	CE	62.9	62.9
GLEN CARBON ROAD				
29+01.24	RT	CE	96.0	96.0
TOTAL :			206	206

*SEE CURB AND GUTTER SCHEDULE FOR ADDITIONAL QUANTITY

SIGNAGE SCHEDULE									
LOCATION			DESCRIPTION				RELOCATE SIGN PANEL ASSEMBLY - TYPE A**	SIGN PANEL - TYPE 1*	TELESCOPING STEEL SIGN SUPPORT
STATION			SIGN	SHAPE	SIZE	EACH	SQ FT	FOOT	
IL ROUTE 159									
23203+10.06	49.57	RT	Destinations Sign			1			
23204+44.37	46.50	RT	R3-I100A RT Turn Lane	Rectangle	24 X 24		4.00	15.7	
23204+88.36	46.50	RT	Bus Stop			1			
GLEN CARBON ROAD									
30+16.21	35.26	RT	R3-I100A RT Turn Lane	Rectangle	24 X 24		4.00	15.7	
TRAFFIC SIGNALS									
							19.25		
TOTAL :							2	27.25	31

*SEE TRAFFIC SIGNAL SHEETS FOR LOCATIONS

** LOCATION IS THE PROPOSED PLACEMENT LOCATION

TREE REMOVAL SCHEDULE		
LOCATION		TREE REMOVAL (6 TO 15 UNITS DIAMETER)
STATION	LT/RT	UNIT
IL ROUTE 159		
32+80.84	58.36 RT	6
PAY TOTAL :		6

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DESIGNED - MLS
DRAWN - BAB
CHECKED - JWS
DATE - AUG 2022

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REVISED -
REVISED -
REVISED -

PLOT SCALE = 2,000' / in.
PLOT DATE = 8/15/2024



SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	15
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE SCHEDULE										
STATION	INLETS TO BE ADJUSTED	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A		INLETS, TYPE B	MANHOLES, TYPE A, 4' DIAMETER	INLETS, SPECIAL NO. 1			
			TYPE 3 FRAME AND GRATE	TYPE 8 GRATE	TYPE 3 FRAME AND GRATE	TYPE 3 FRAME AND GRATE				
STR.	STATION	OFFSET	LT/RT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
IL ROUTE 159										
	23202+74.56	37.59	RT	1						
P-1	23206+88.42	46.08	RT							1
P-2	23206+88.42	64.78	RT				1			
P-3	23207+25.00	45.07	RT						1	
P-5A	23207+34.07	39.67	LT		1					
GLEN CARBON ROAD										
P-8	31+00.00	32.75	RT			1				
P-7	31+75.00	52.33	RT				1			
P-6	31+86.00	41.20	RT						1	
P-5	32+21.00	64.48	RT					1		
COTTONWOOD ROAD										
P-4	33+55.29	40.71	RT						1	
P-4A	33+92.40	21.45	RT		1					
TOTAL :				1	2	1	2	1	3	1

STORM SEWER REMOVAL							
LOCATION							STORM SEWER REMOVAL
STATION							FOOT
IL ROUTE 159							
23206+88.43	44.58	RT	TO	23206+88.51	57.01	RT	12.4
23207+34.07	39.67	LT	TO	23207+61.08	83.44	LT	51.4
23207+34.07	39.67	LT	TO	23207+85.25	42.73	LT	51.3
COTTONWOOD ROAD							
33+55.50	37.95	RT	TO	33+55.63	44.52	RT	6.6
33+62.80	47.02	RT	TO	33+92.40	21.45	RT	39.1
TOTAL :							161

STORM SEWER SCHEDULE													
LOCATION										STORM SEWER			CONCRETE COLLAR
										CLASS A, TYPE 1			
PIPE	STR.	STATION	OFFSET	LT/RT	TO	STR.	STATION	OFFSET	LT/RT	12 INCH	18 INCH	24 INCH	CU YD
										FOOT	FOOT	FOOT	
IL ROUTE 159													
P-2	P-2	23206+88.42	64.78	RT	TO	P-1	23206+88.42	46.08	RT	16.2			
P-1	P-1	23206+88.42	46.08	RT	TO	P-3	23207+25.00	45.07	RT			32.4	
P-3	P-3	23207+25.00	45.07	RT	TO	P-4	33+55.29	40.71	RT			47.3	
P-5A	P-5A	23207+34.07	39.67	LT	TO	P-5B	23207+85.25	42.76	LT		51.3		0.28
GLEN CARBON ROAD													
P-8	P-8	31+00.00	32.75	RT	TO	P-6	31+86.00	41.20	RT	78.5			
P-7	P-7	31+75.00	52.33	RT	TO	P-6	31+86.00	41.20	RT	13.5			
P-6	P-6	31+86.00	41.20	RT	TO	P-5	32+21.00	64.68	RT	36.7			
P-5	P-5	32+21.00	64.68	RT	TO	P-5A	23207+34.07	39.67	LT	12.1			
COTTONWOOD ROAD													
P-4	P-4	33+55.29	40.71	RT	TO	P-4A	33+92.40	21.45	RT		39.9		
TOTAL :										157	91	80	0.3

HOT-MIX ASPHALT PAVING SCHEDULE								
LOCATION				SUBBASE GRANULAR MATERIAL, TYPE A	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "E", N70	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)
STATION	TO	STATION	NOTES	TON	TON	TON	POUND	POUND
IL ROUTE 159								
23202+10.26	TO	23203+17.75		70.8	7.2	43.2	14.5	144.6
23203+17.75	TO	23204+39.18		111.2	13.1	78.8	26.4	263.8
23204+39.18	TO	23207+13.42		321.7	41.0	245.7	82.3	822.7
GLEN CARBON ROAD								
28+08.67	TO	30+16.21		170.3	21.0	131.0	41.9	418.5
30+16.21	TO	31+40.04		145.3	18.5	111.0	37.2	371.5
31+40.04	TO	32+49.24		253.7	32.4	194.4	65.1	650.9
COTTONWOOD ROAD								
33+11.63	TO	34+33.33		225.6	27.9	167.2	56.0	559.8
TOTAL :				1298	161	971	323	3232

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 DESIGNED - MLS
 DRAWN - BAB
 CHECKED - JWS
 DATE - AUG 2022
 PLOT SCALE = 2,000' / in.
 PLOT DATE = 8/15/2024

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SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	16
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

STATION		TO	LOCATION		TYPE	SQ FT	EACH	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D					GROOVING FOR RECESSED PAVEMENT MARKING					PAINT PAVEMENT MARKINGS
								LINE 5"	LINE 8"	LINE 12"	LINE 24"	LETTERS AND SYMBOLS	6"	9"	13"	25"	LETTERS AND SYMBOLS	LINE 4"
								WHITE	WHITE	WHITE	WHITE		FOOT	FOOT	FOOT	FOOT		FOOT
STATION	TO	STATION	DESCRIPTION				FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	
IL ROUTE 159																		
23202+19.18	TO	23207+35.86	Single	Edge Line	215.7													
23202+19.18	TO	23204+39.18	Single	Taper Line			220.3					220.3						
23202+19.18	TO	23204+39.18	Skip-Dash	2'-6' Skip-Dash			55.0					55.0						
23204+39.18	TO	23207+45.80	Single	Lane Line		8	306.6					306.6						
23204+64.18			Right Arrow								15.6					15.6		
23205+96.86			Right Arrow								15.6					15.6		
23207+00.43	TO	23207+40.91	Single	Edge Line LT	20.7													
23207+06.77	TO	23208+13.20	Skip-Dash	2'-6' Skip Dash Left Turn			39.0					39.0						
23207+17.03	TO	23207+65.46	Skip-Dash	10'-30' Skip-Dash			12.1					12.1						
23207+35.86			Single	Stop Bar	85.4													
23207+39.23			Single	Stop Bar					11.0						11.0			
23207+39.23	TO	23207+65.41	Single	Lane Line		1	26.2					26.2						
23207+41.40			Right Arrow								15.6					15.6		
23207+45.80	TO	23207+90.79	Single	Island IL 159/Cottonwood				119.6	30.8				119.6	30.8				
23207+45.13	TO	23207+59.63	Single	Crosswalk Striping	526.2													
23207+51.65	TO	23207+89.67	Single	Island IL 159/Glen Carbon				138.4	40.3				138.4	40.3				
23207+65.41			Single	Stop Bar						24.5					24.5			
23207+72.24	TO	23207+77.90	Single	Crosswalk Striping IL 159						126.0					126.0			
23207+13.36	TO	34+33.46	Single	Right Edge Radius			148.0		74.1			148.0		74.1				
23207+59.41			Single	Stop Bar						16.0					16.0			
23207+60.92	TO	23207+76.67	Single	Crosswalk Striping RT Turn Lane						42.0					42.0			
23207+99.80	TO	23209+07.69	Skip -Dash	2'-6' Skip-Dash Left Turn	7.9		37.2					37.2						
GLEN CARBON ROAD																		
28+08.67	TO	28+68.52	Single	Edge Line	19.8													
28+08.67	TO	28+69.75	Single	Edge Line			60.6					60.6						
28+08.67	TO	30+16.21	Skip-Dash	2'-6' Skip-Dash			50.5					50.5						
29+34.20	TO	31+40.04	Single	Edge Line			194.5					194.5						
29+35.18	TO	32+05.17	Single	Edge Line	109.0													
30+16.21	TO	31+94.88	Single	Lane Line			172.5					172.5						
30+42.41			Through/ Left Arrow								26.0					26.0		
30+42.41			Right Arrow								15.6					15.6		
31+79.66			Through/ Left Arrow								26.0					26.0		
31+90.38			Right Arrow								15.6					15.6		
32+08.67			Single	Stop Bar						18.0					18.0			
32+15.98			Single	Stop Bar	53.4													
32+11.44	TO	32+27.51	Single	Crosswalk Striping RT Turn Lane						42.0					42.0			
32+23.81			Single	Stop Bar						12.4					12.4			
32+29.88	TO	32+37.28	Single	Crosswalk	54.5													
31+40.04	TO	23207+00.43	Single	Right Edge Radius			136.2		67.3			136.2		67.3				
Parking Lot			Single	Parking Lot Lines	20.0													40.0
COTTONWOOD ROAD																		
33+22.57	TO	33+28.59	Single	Crosswalk	60.7													
33+35.73			Single	Lane Line	5.1													
TOTAL:						1179	9	1459	258	213	292	130	1459	258	213	292	130	40

* SEE TEMPORARY / SHORT TERM PAVEMENT MARKING SCHEDULE FOR ADD'L QUANTITY

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PLOT SCALE = 2,000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



SCHEDULE OF QUANTITIES			
SCALE: NTS	SHEET 4 OF 5 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	17
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

TEMPORARY / SHORT TERM PAVEMENT MARKING SCHEDULE

LOCATION					PAVEMENT MARKING REMOVAL - WATER BLASTING *	TEMPORARY PAVEMENT MARKING - PAINT					SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
						LINE 5"	LINE 8"	LINE 12"	LINE 24"	LETTERS AND SYMBOLS	LINE 5"	
STATION	TO	STATION	DESCRIPTION	TYPE	SQ FT	FOOT	FOOT	FOOT	FOOT		SQ FT	FOOT
IL ROUTE 159												
23202+19.18	TO	23204+39.18	Single	Taper Line	91.8	220.3					20.0	8.3
23202+19.18	TO	23204+39.18	Skip-Dash	2'-6' Skip-Dash	22.9	55.0					20.0	8.3
23204+39.18	TO	23207+45.80	Single	Lane Line	127.8	306.6					27.9	11.6
23204+64.18			Right Arrow		15.6					15.6		
23205+96.86			Right Arrow		15.6					15.6		
23207+06.77	TO	23208+13.20	Skip-Dash	2'-6' Skip Dash Left Turn	16.3	39.0					14.2	5.9
23207+17.03	TO	23207+65.46	Skip-Dash	10'-30' Skip-Dash	5.0	12.1					4.4	1.8
23207+39.23			Single	Stop Bar	22.0			11.0				
23207+39.23	TO	23207+65.41	Single	Lane Line	10.9	26.2					2.4	1.0
23207+41.40			Right Arrow		15.6					15.6		
23207+45.80	TO	23207+90.79	Single	Island IL 159/Cottonwood	110.5		119.6	30.8			10.9	4.5
23207+51.65	TO	23207+89.67	Single	Island IL 159/Glen Carbon	132.6		138.4	40.3			12.6	5.3
23207+65.41			Single	Stop Bar	49.0			24.5				
23207+72.24	TO	23207+77.90	Single	Crosswalk Striping IL 159	252.0			126.0				
23207+13.36	TO	34+33.46	Single	Right Edge Radius	135.8	148.0		74.1			13.5	5.6
23207+59.41			Single	Stop Bar	32.0			16.0				
23207+60.92	TO	23207+76.67	Single	Crosswalk Striping RT Turn Lane	84.0			42.0				
23207+99.80	TO	23209+07.69	Skip -Dash	2'-6' Skip-Dash Left Turn	15.5	37.2					13.5	5.6
GLEN CARBON ROAD												
28+08.67	TO	28+69.75	Single	Edge Line	25.3	60.6					5.5	2.3
28+08.67	TO	30+16.21	Skip-Dash	2'-6' Skip-Dash	21.0	50.5					18.4	7.7
29+34.20	TO	31+40.04	Single	Edge Line	81.0	194.5					17.7	7.4
30+16.21	TO	31+94.88	Single	Lane Line	71.9	172.5					15.7	6.5
30+42.41			Through/ Left Arrow		26.0					26.0		
30+42.41			Right Arrow		15.6					15.6		
31+79.66			Through/ Left Arrow		26.0					26.0		
31+90.38			Right Arrow		15.6					15.6		
32+08.67			Single	Stop Bar	36.0			18.0				
32+11.44	TO	32+27.51	Single	Crosswalk Striping RT Turn Lane	84.0			42.0				
32+23.81			Single	Stop Bar	24.8			12.4				
31+40.04	TO	23207+00.43	Single	Right Edge Radius	124.1	136.2		67.3			12.4	5.2
TOTAL:					1706	1459	258	213	292	130	209	87

* SEE PAVEMENT MARKING SCHEDULE FOR ADD'L QUANTITY

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USER NAME = mschwierjohn
 DESIGNED - MLS
 DRAWN - BAB
 CHECKED - JWS
 DATE - AUG 2022

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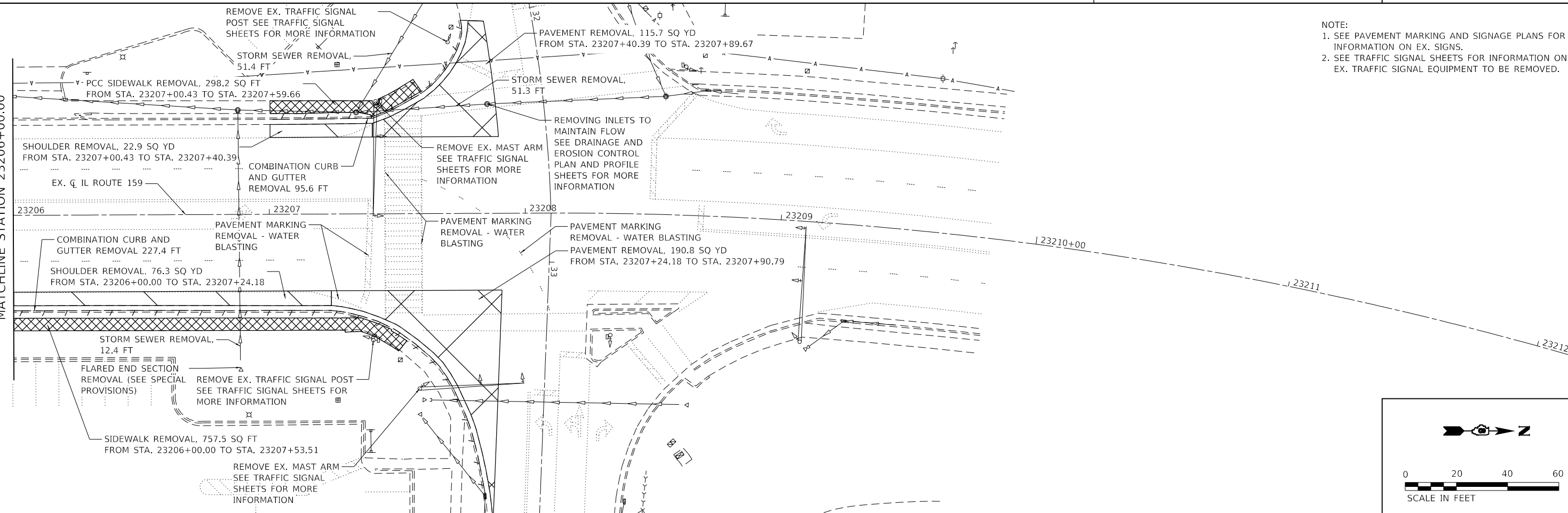
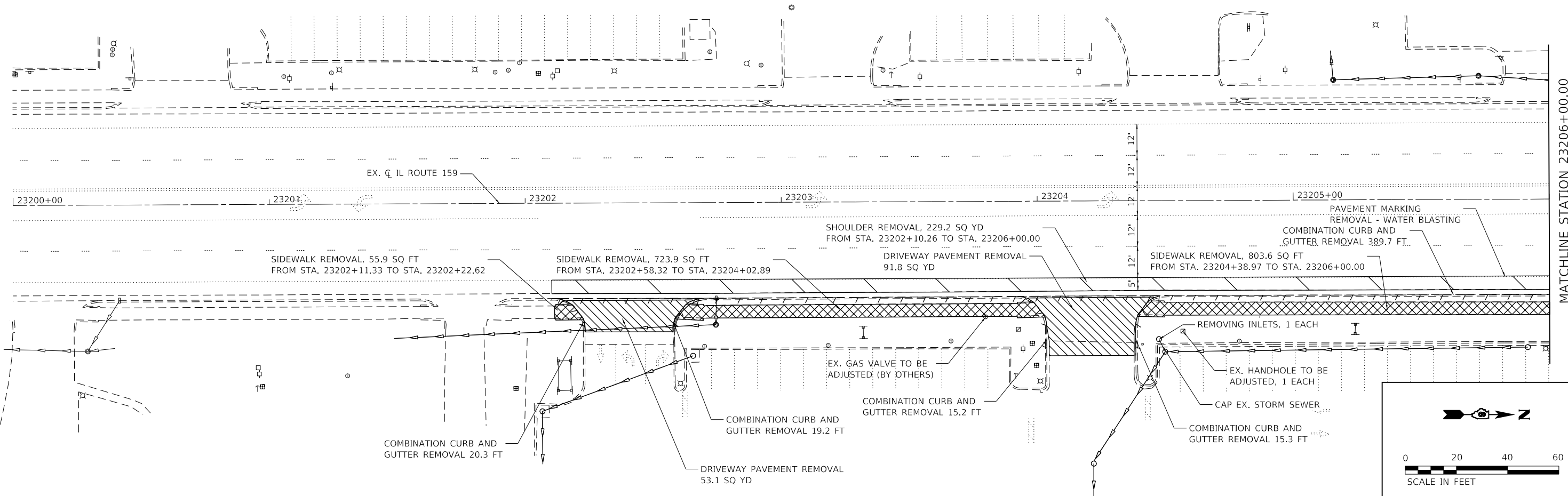
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 PLOT DATE = 8/15/2024



SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	18
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. SEE PAVEMENT MARKING AND SIGNAGE PLANS FOR INFORMATION ON EX. SIGNS.
 2. SEE TRAFFIC SIGNAL SHEETS FOR INFORMATION ON EX. TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED.

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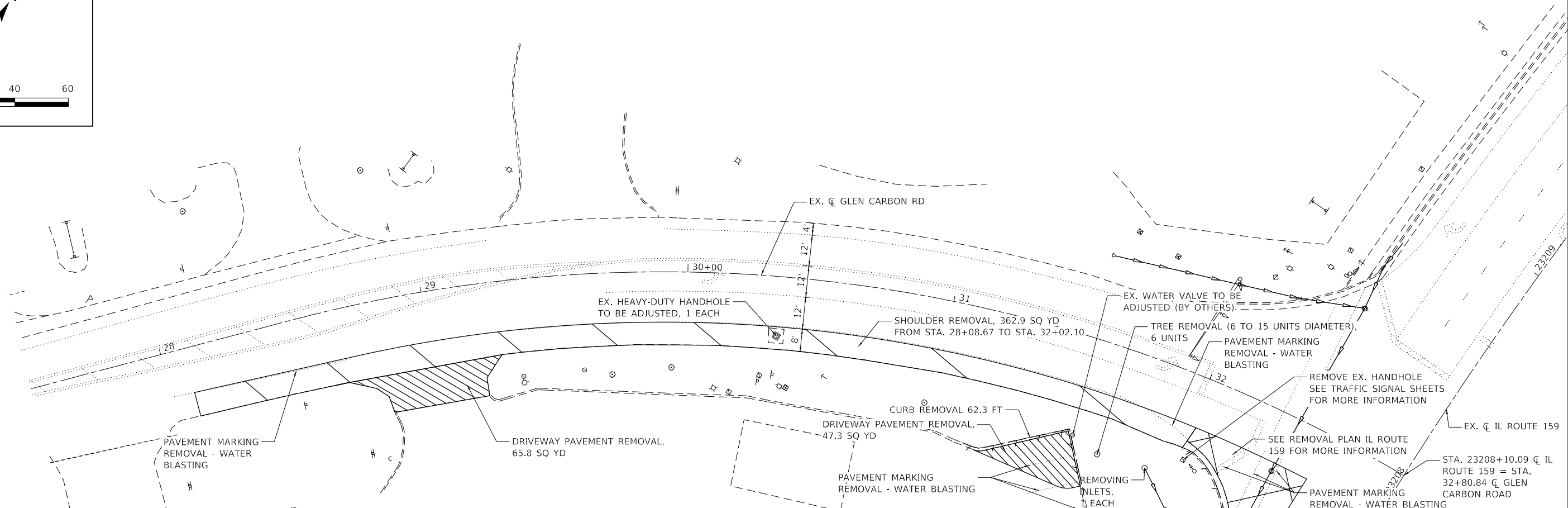
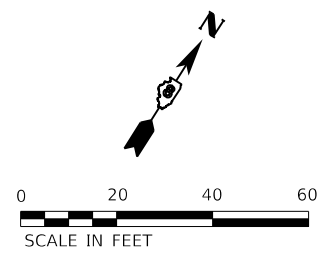
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DATE - AUG 2022	REVISED -



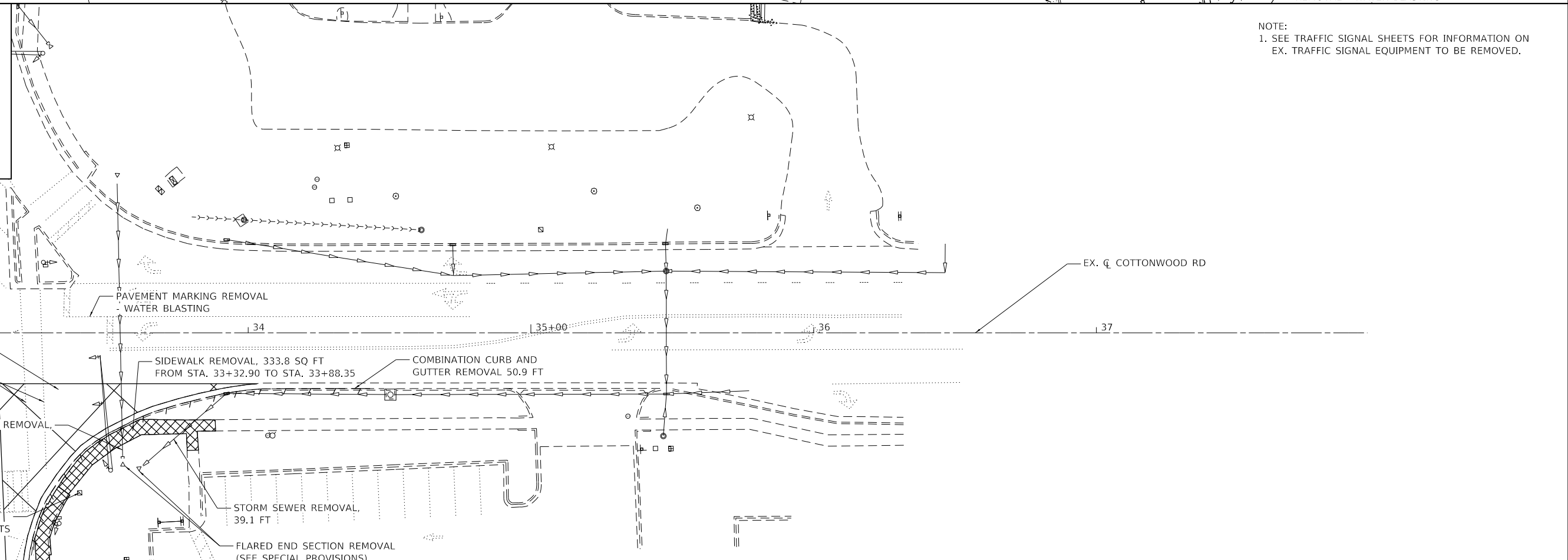
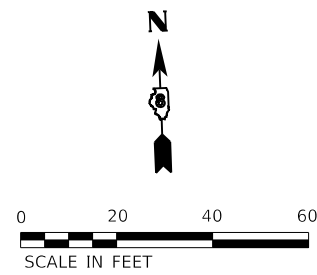
**REMOVAL PLAN
 IL ROUTE 159**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 23200+00.00 TO STA. 23206+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-0025-01-PW	MADISON	65	19
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



NOTE:
1. SEE TRAFFIC SIGNAL SHEETS FOR INFORMATION ON EX. TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED.



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IL DESIGN FIRM LICENSE NO: 184-001220	CHECKED - JWS	REVISED -
PLOT SCALE = 40,0000 ' / in.	DATE - AUG 2022	REVISED -
PLOT DATE = 8/15/2024		



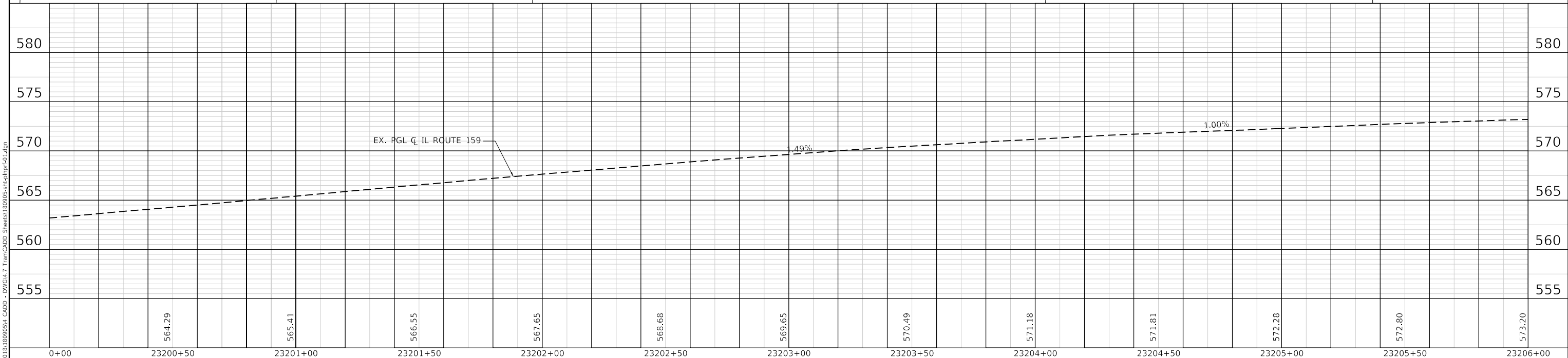
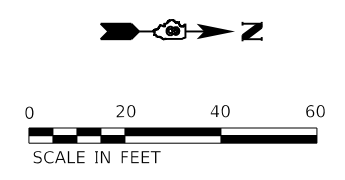
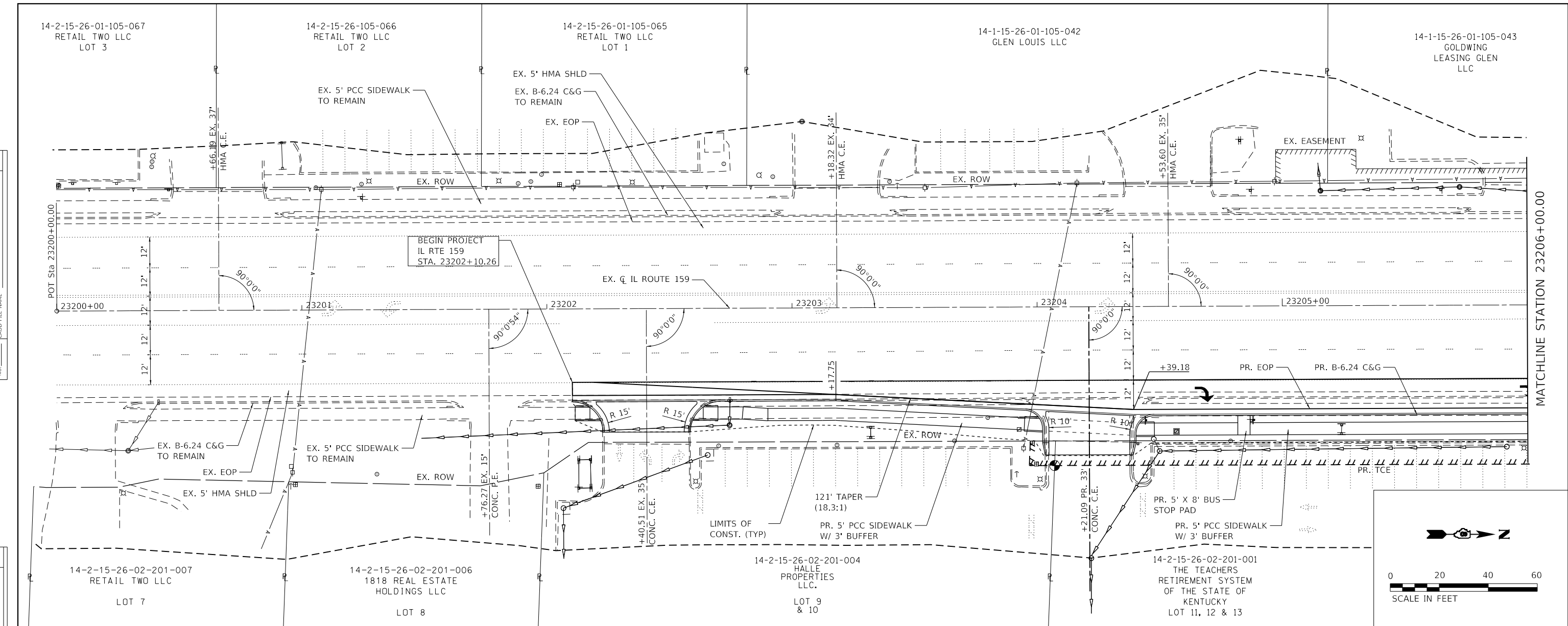
REMOVAL PLAN
E GLEN CARBON ROAD/COTTONWOOD ROAD

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 27+50.00 TO STA. 34+43.33

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	20
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	NOTE BOOK	FILE NAME
	NO.	



0+00	23200+50	23201+00	23201+50	23202+00	23202+50	23203+00	23203+50	23204+00	23204+50	23205+00	23205+50	23206+00
	564.29	565.41	566.55	567.65	568.68	569.65	570.49	571.18	571.81	572.28	572.80	573.20

TWM
ENGINEERING
GEOSPATIAL SERVICES

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

USER NAME = mschwiejoh	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**PLAN AND PROFILE
IL ROUTE 159**

SCALE: 1" = 20'

SHEET 1 OF 4 SHEETS

STA. 23200+00.00 TO STA. 23206+00.00

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	21
CONTRACT NO. 97793			ILLINOIS FED. AID PROJECT	

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FILE NAME: P:\2023\18189\0514_CADD - DWG\4.7 Tran\CADD_Sheets\180905-shc1plan-rd_2.dgn

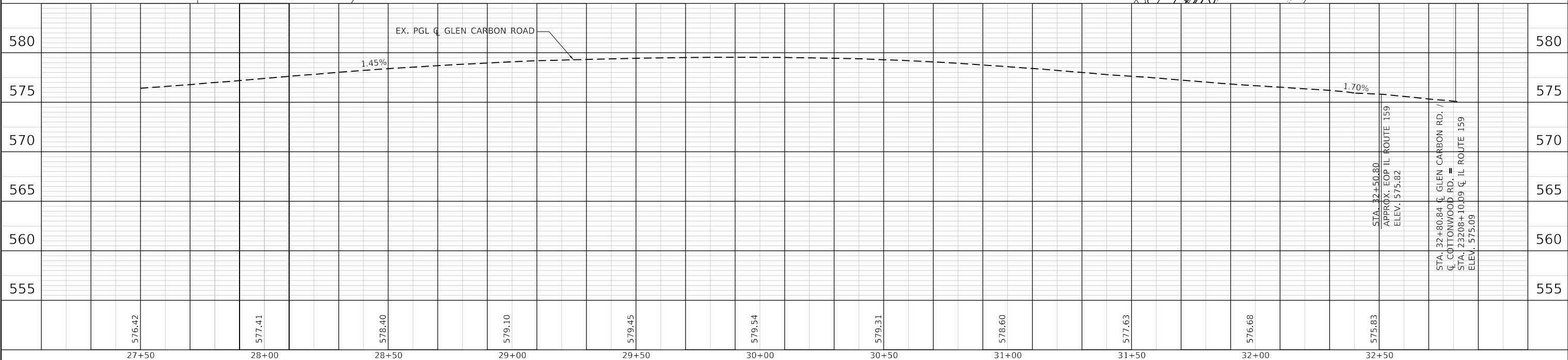
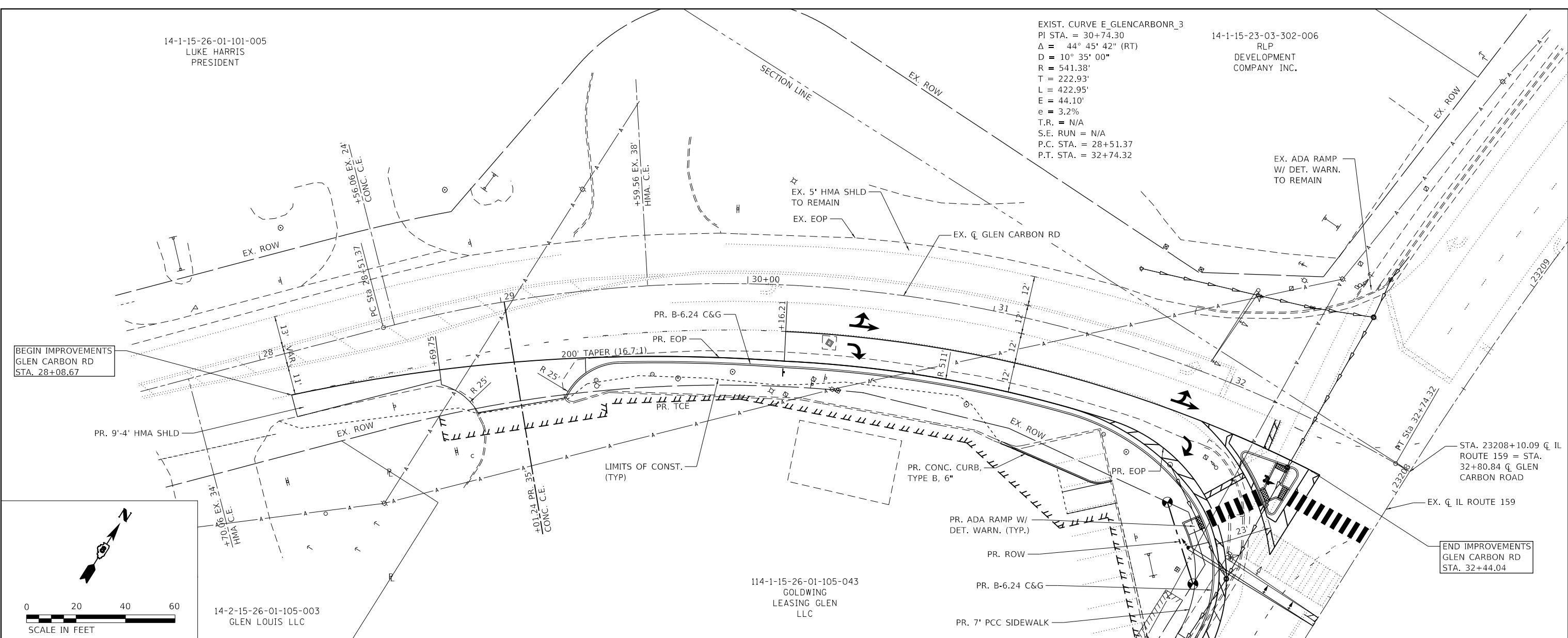
14-1-15-26-01-101-005
LUKE HARRIS
PRESIDENT

EXIST. CURVE E_GLENCARBONR_3
PI STA. = 30+74.30
Δ = 44° 45' 42" (RT)
D = 10° 35' 00"
R = 541.38'
T = 222.93'
L = 422.95'
E = 44.10'
e = 3.2%
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 28+51.37
P.T. STA. = 32+74.32

14-1-15-23-03-302-006
RLP
DEVELOPMENT
COMPANY INC.

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

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



TWM
ENGINEERING
GEOSPATIAL SERVICES

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

USER NAME =	mschwieerjohn	DESIGNED -	MLS	REVISED -	
DRAWN -	BAB	REVISOR -		REVISION -	
CHECKED -	JWS	DATE -	AUG 2022		
PLOT SCALE =	40.0000' / in.				
PLOT DATE =	8/15/2024				



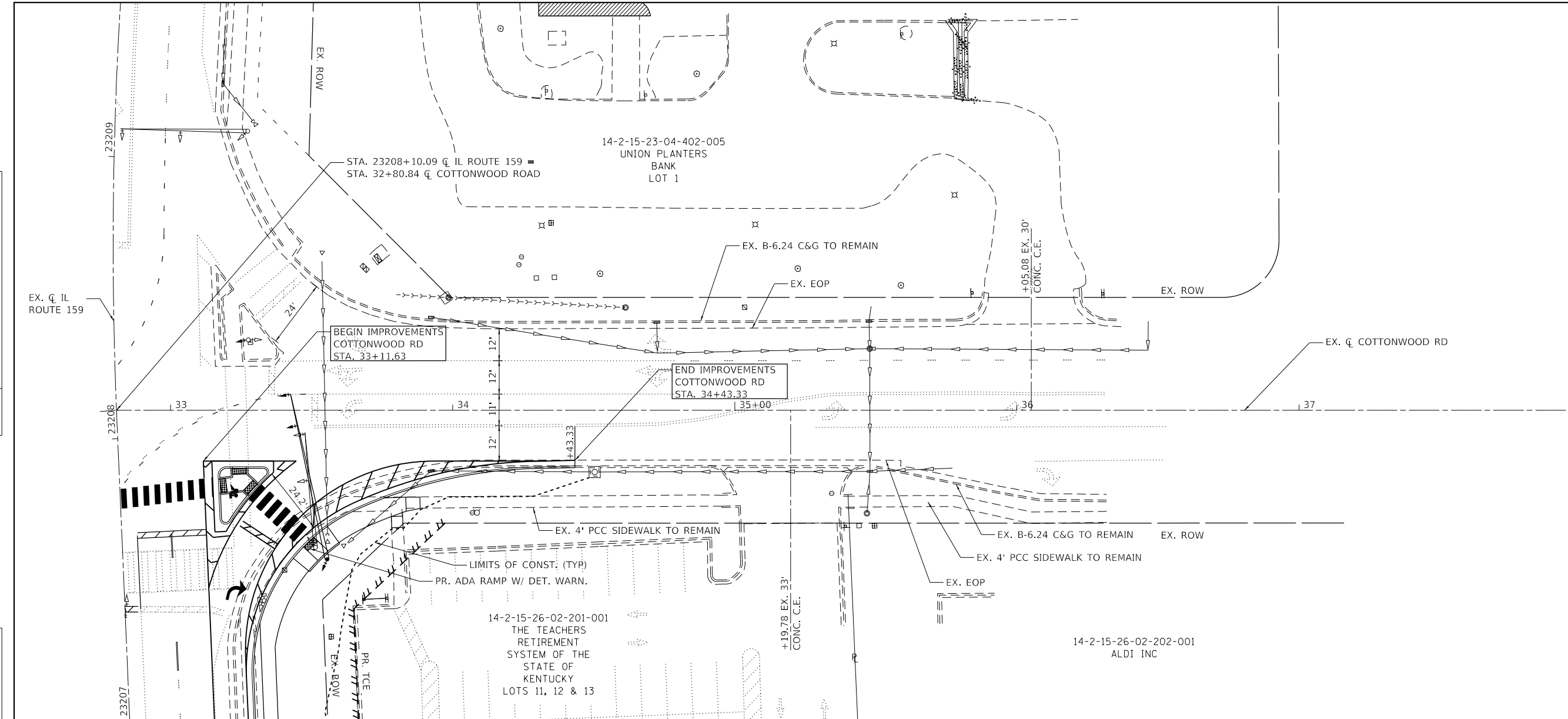
**PLAN AND PROFILE
E GLEN CARBON ROAD**

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 27+50.00 TO STA. 32+80.04

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	23
				CONTRACT NO. 97793
ILLINOIS FED. AID PROJECT				

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

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

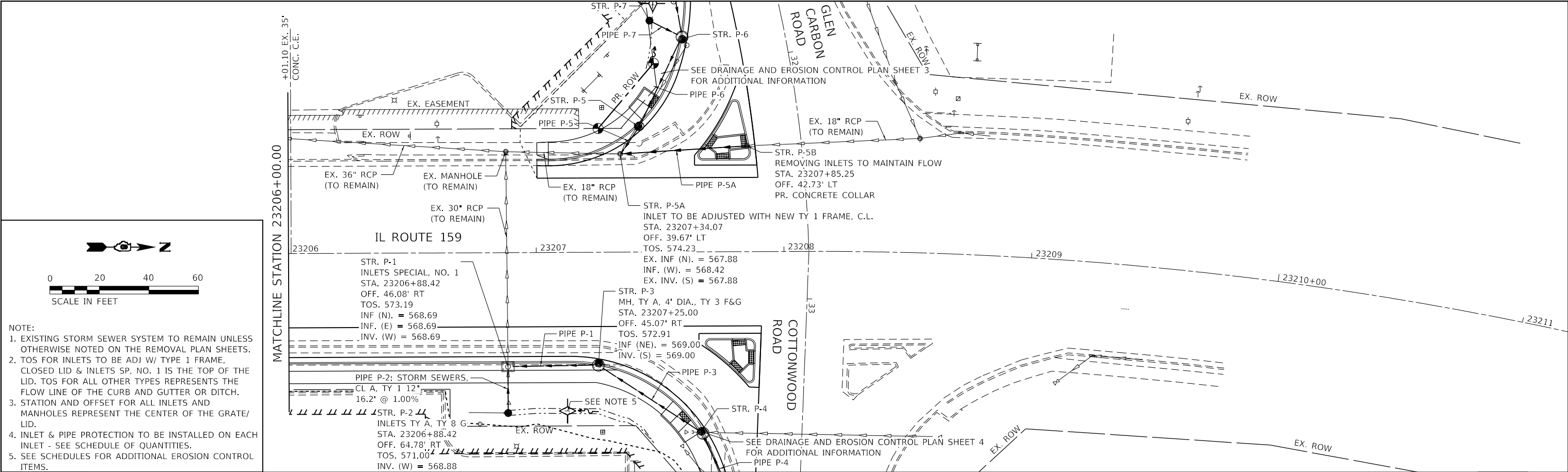


 TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = mschwierjohn DESIGNED - MLS DRAWN - BAB CHECKED - JWS DATE - AUG 2022	REVISED - REVISED - REVISED - REVISED -		PLAN AND PROFILE COTTONWOOD ROAD	F.A.P. ROUTE 600 SECTION 19-0025-01-PW COUNTY MADISON TOTAL SHEETS 65 SHEET NO. 24 CONTRACT NO. 97793
	PLOT SCALE = 40.0000' / in. PLOT DATE = 8/15/2024	SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. 32+80.04 TO STA. 34+43.33			ILLINOIS FED. AID PROJECT

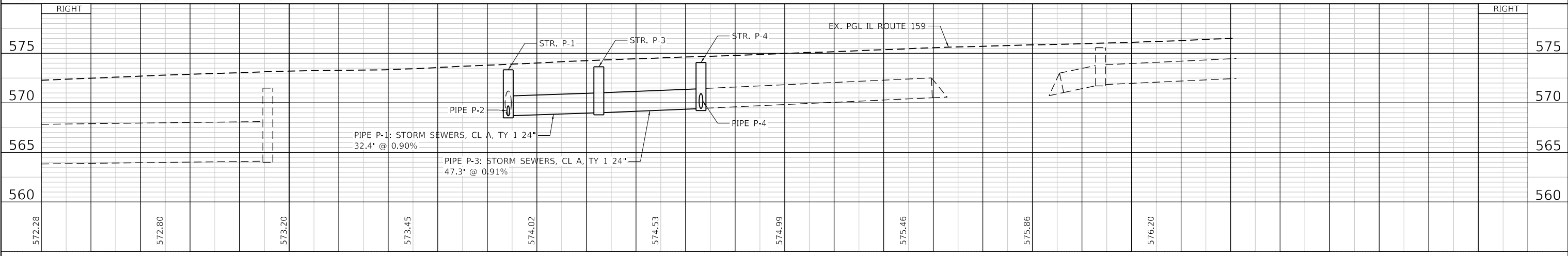
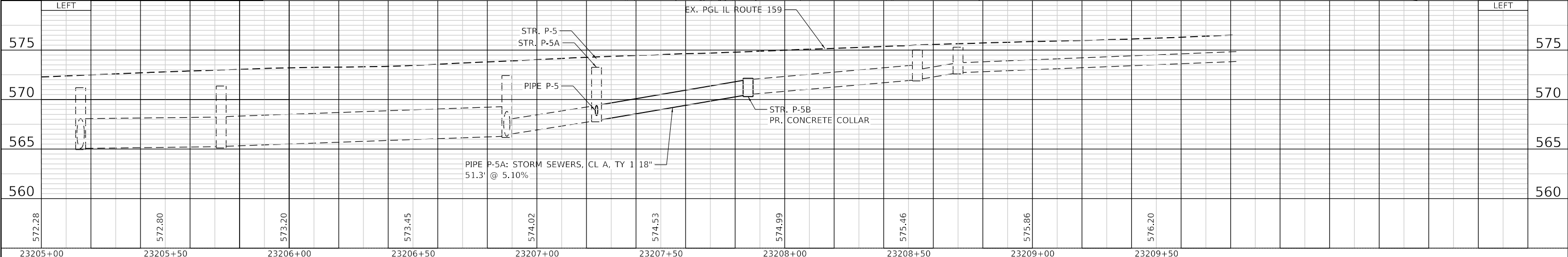
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	
	FILE NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	
	FILE NO.	

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FILE NAME: P:\2020\1818990514_CADD - DWG\4.7 Tran\CADD Sheets\1818990514-drain-02.dwg



NOTE:
1. EXISTING STORM SEWER SYSTEM TO REMAIN UNLESS OTHERWISE NOTED ON THE REMOVAL PLAN SHEETS.
2. TOS FOR INLETS TO BE ADJ W/ TYPE 1 FRAME, CLOSED LID & INLETS SP, NO. 1 IS THE TOP OF THE LID. TOS FOR ALL OTHER TYPES REPRESENTS THE FLOW LINE OF THE CURB AND GUTTER OR DITCH.
3. STATION AND OFFSET FOR ALL INLETS AND MANHOLES REPRESENT THE CENTER OF THE GRATE/ LID.
4. INLET & PIPE PROTECTION TO BE INSTALLED ON EACH INLET - SEE SCHEDULE OF QUANTITIES.
5. SEE SCHEDULES FOR ADDITIONAL EROSION CONTROL ITEMS.



USER NAME = mschwieerjohn
DESIGNED - EKF
DRAWN - EKF
CHECKED - JWS
DATE - AUG 2022

REVISED -
REVISED -
REVISED -
REVISED -



DRAINAGE AND EROSION CONTROL PLAN AND PROFILE
IL ROUTE 159
SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 23206+00.00 TO STA. 23208+10.09

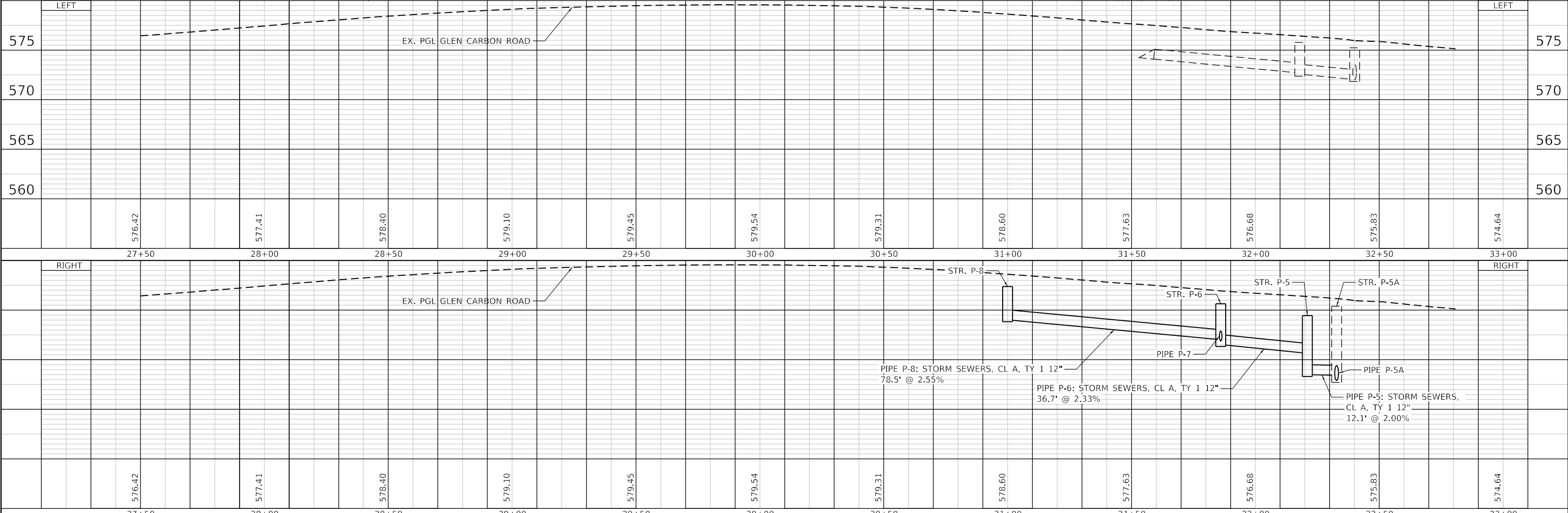
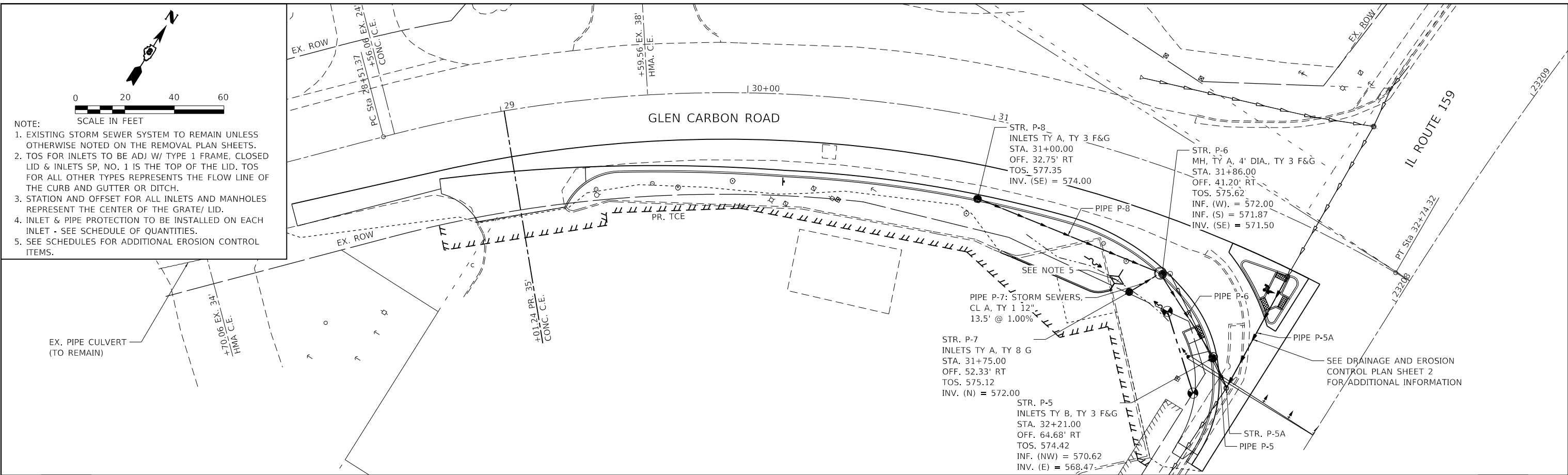
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	26
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	

MODEL: Default
FILE NAME: P:202018118090514 CADDD - DWG\C4.7 Tran\CADD Sheets\180905-stn-drain-03.dwg

- NOTE:**
- EXISTING STORM SEWER SYSTEM TO REMAIN UNLESS OTHERWISE NOTED ON THE REMOVAL PLAN SHEETS.
 - TOS FOR INLETS TO BE ADJ W/ TYPE 1 FRAME, CLOSED LID & INLETS SP. NO. 1 IS THE TOP OF THE LID. TOS FOR ALL OTHER TYPES REPRESENTS THE FLOW LINE OF THE CURB AND GUTTER OR DITCH.
 - STATION AND OFFSET FOR ALL INLETS AND MANHOLES REPRESENT THE CENTER OF THE GRATE/ LID.
 - INLET & PIPE PROTECTION TO BE INSTALLED ON EACH INLET - SEE SCHEDULE OF QUANTITIES.
 - SEE SCHEDULES FOR ADDITIONAL EROSION CONTROL ITEMS.



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

USER NAME = mschwierjohn	DESIGNED - EKF	REVISED -
	DRAWN - EKF	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



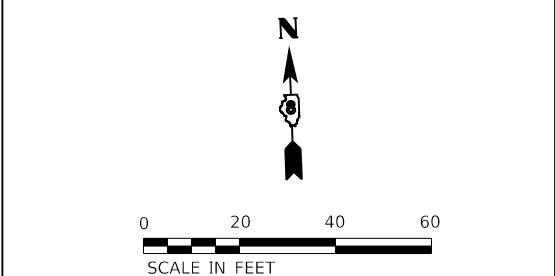
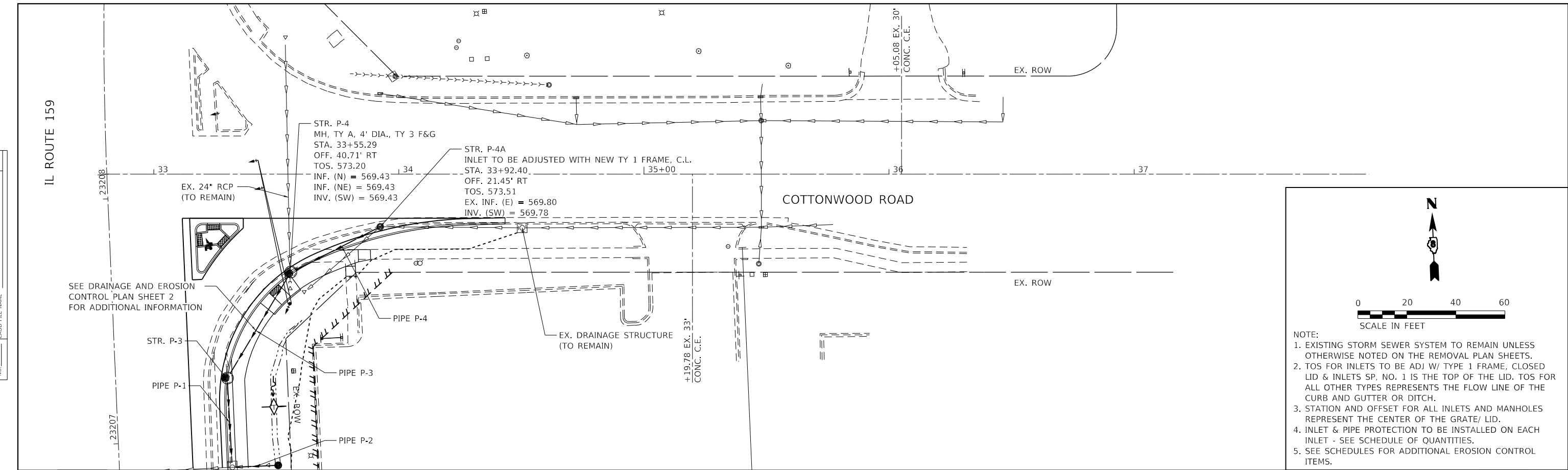
DRAINAGE AND EROSION CONTROL PLAN AND PROFILE
E GLEN CARBON ROAD

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 27+50.00 TO STA. 32+80.04

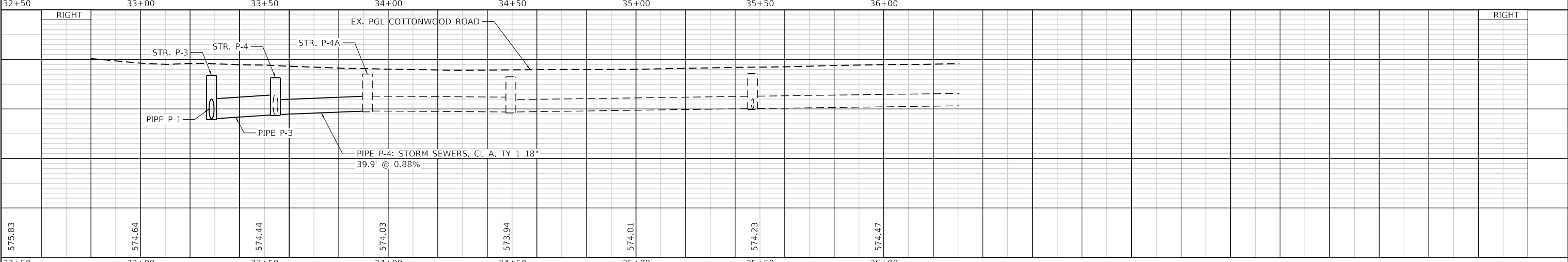
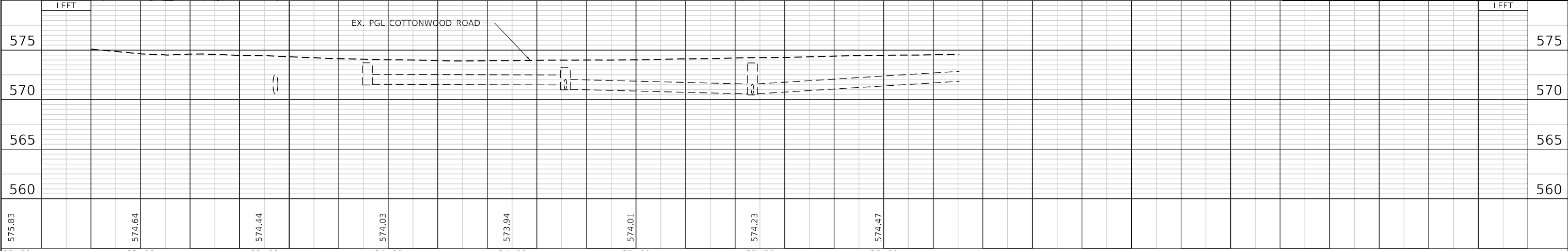
F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 27
				CONTRACT NO. 97793
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	NO. _____	
	FILE NAME	
	STRUCTURE	
	NOTATION	
	GRID	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	NO. _____	
	FILE NAME	
	STRUCTURE	
	NOTATION	
	GRID	



- NOTE:
- EXISTING STORM SEWER SYSTEM TO REMAIN UNLESS OTHERWISE NOTED ON THE REMOVAL PLAN SHEETS.
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 - STATION AND OFFSET FOR ALL INLETS AND MANHOLES REPRESENT THE CENTER OF THE GRATE/ LID.
 - INLET & PIPE PROTECTION TO BE INSTALLED ON EACH INLET - SEE SCHEDULE OF QUANTITIES.
 - SEE SCHEDULES FOR ADDITIONAL EROSION CONTROL ITEMS.



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USER NAME = mschwierjohn	DESIGNED - EKF	REVISED -
	DRAWN - EKF	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**DRAINAGE AND EROSION CONTROL PLAN AND PROFILE
 COTTONWOOD ROAD**

SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. 32+80.04 TO STA. 34+43.33

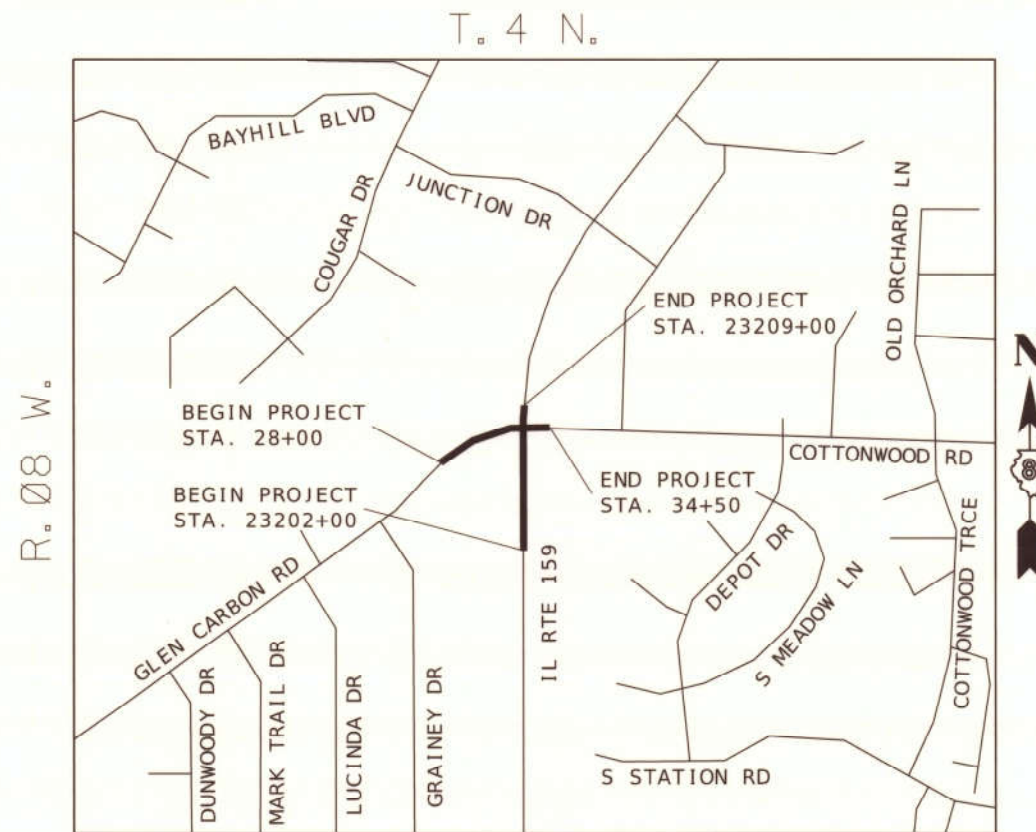
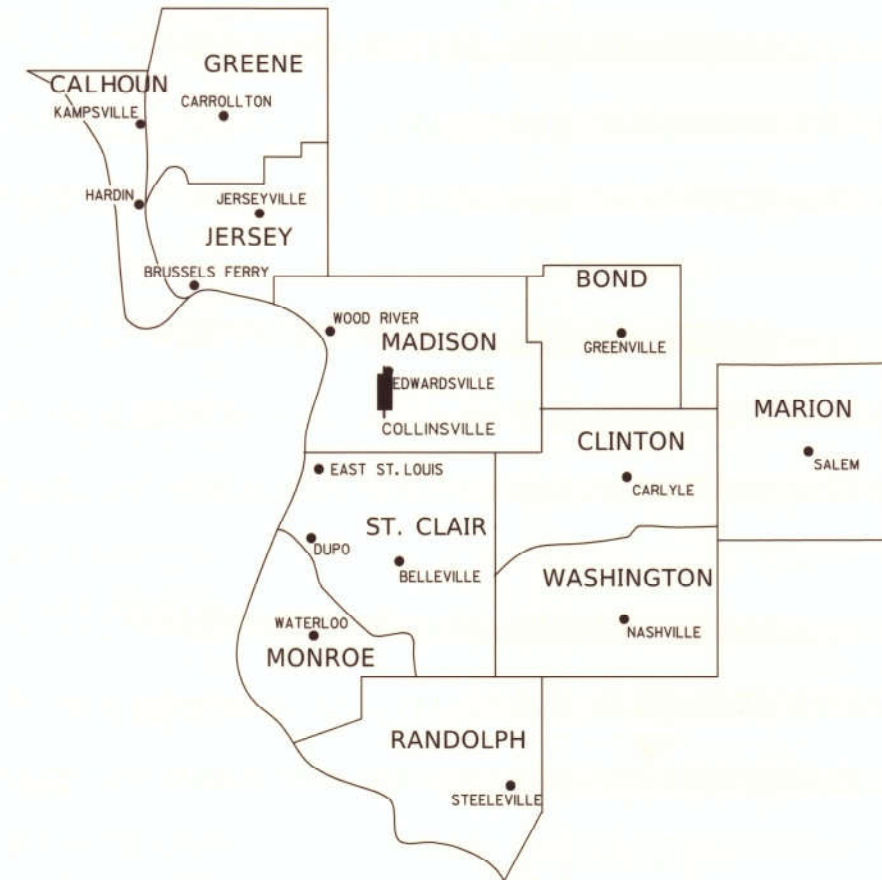
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	28
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				

PLAT OF HIGHWAYS

--- / --- / ---

SPACE RESERVED FOR RECORDING OFFICER

CMAQ
 FAP ROUTE 600 (IL ROUTE 159) AT FAU 8896
 SECTION 19-00025-01-PW
 PROJECT FXD (977)
 INTERSECTION IMPROVEMENTS
 MADISON COUNTY, ILLINOIS
 JOB NO. R-98-003-20



LOCATION OF SECTION INDICATED THUS:

PREPARED BY:
THOUVENOT, WADE & MOERCHEN, INC.
 SWANSEA • WATERLOO • EDWARDSVILLE • ST. LOUIS • ST. CHARLES

CORPORATE OFFICE
 4940 Old Collinsville Road
 Swansea, Illinois 62226
 Tel: 618.624.4488
 Fax: 618.624.6688



IDPR DESIGN FIRM LICENSE NO. 184-001220

DATE: 08/17/2022

Edgar M. BARNAL
 EDGAR M. BARNAL, PLS #2750
 LICENSE EXPIRATION DATE: 11/30/2022

SHEET INDEX		
SHEET NO.	STATION to STATION	PARCEL(S)
1	COVER SHEET	
2	LEGEND SHEET	
3	403+77 - 405+90	8000031, 032
4	403+77 - 406+00	8000033
5	CONTROL TIE SHEET	

PROJECT LENGTH = 716 LIN. FT. = 0.14 MILES

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL GULFBOX	○	DRAINAGE FLOW LINE	FL
TRAFFIC SIGNAL HANDHOLE	□	RIP RAP	
TRAFFIC SIGNAL SIGNAL POST	○	HEADWALL	— —
TRAFFIC SIGNAL STEEL MAST ARM	◀	CULVERT END SECTION	— —
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	DRAINAGE MANHOLE	○
TRAFFIC SIGNAL WOODEN POLE	○	INLET	— —
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	◀	ROADWAY DITCH FLOW	~
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	— —	VEGETATION LINE	— —
TRAFFIC SIGNAL JUNCTION BOX	□	STUMP	•
TRAFFIC SIGNAL CONTROLLER	□	SHRUB	○
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	□	EVERGREEN TREE	◊
RAILROAD CANTILEVER MAST ARM	— —	DECIDUOUS TREE	○
RAILROAD CROSSBUCK	— —	WOODS/BUSH LINE	— —
RAILROAD TRACK	— —	TRAFFIC SIGN	— —
RAILROAD TRACK (ABANDONED)	— —	GUARDRAIL POST	— —
RAILROAD CROSSGATE	— —	GUARDRAIL	— —
RAILROAD CONTROL BOX	□	FIELD LINE	— —
RAILROAD FLASHING SIGNAL	— —	LEVEE/NOISE BARRIER	— —
UTILITY TELEPHONE SPLICE BOX	□	FENCE	— —
UTILITY POWER POLE	○	MAIL BOX	— —
UTILITY TRAFFIC SIGNAL	○	ADVERTISING SIGN	— —
UTILITY LIGHT POLE	○	MARSH	— —
UTILITY FIRE HYDRANT	○	LIGHTING HANDHOLE	— —
UTILITY MANHOLE	○	LIGHTING POWER POLE	— —
UTILITY TELEPHONE POLE	○	LIGHTING JUNCTION BOX	— —
UTILITY GUY ANCHOR	— —	LIGHTING HEAVYDUTY HANDHOLE	— —
UTILITY PIPELINE WARNING SIGN	— —	LIGHTING CONTROLLER	— —
UTILITY HANDHOLE	— —	LIGHTING PULL POINT	— —
UTILITY SPLICE BOX	— —	HIGHWAY LIGHTING ELECTRICAL GROUND	— —
UTILITY JUNCTION BOX	— —	HIGHWAY LIGHTING SINGLE UNIT	— —
UTILITY HEAVY DUTY HANDHOLE	— —	HIGHWAY LIGHTING DOUBLE UNIT	— —
UTILITY DOUBLE HANDHOLE	— —	EXISTING CONCRETE BARRIER	— —
UTILITY CONTROLLER	— —	EXISTING CREEK OR DITCH	— —
UTILITY WATER METER	— —	EXISTING EDGE OF PAVEMENT	— —

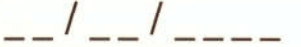
RIGHT-OF-WAY LEGEND

	SECTION CORNERS		QUARTER SECTION CORNERS
—	EXISTING CENTERLINE	—	EXISTING RIGHT-OF-WAY LINE
---	FORMER RIGHT-OF-WAY LINE	---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE	---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE	---	EXISTING ACCESS CONTROL LINE
— AC —	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE	— AC —	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE	---	PROPOSED CENTERLINE
---	PROPOSED RIGHT-OF-WAY LINE	---	PROPOSED RIGHT-OF-WAY LINE
---	PROPOSED TEMPORARY EASEMENT LINE	---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE	---	PROPOSED PERMANENT EASEMENT LINE
---	SECTION LINE	---	SECTION LINE
---	QUARTER SECTION LINE	---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE	---	QUARTER QUARTER SECTION LINE
— P —	PROPERTY LINE (TITLE)	— P —	RECORDED PLAT/DEED LINE
— APL —	APPARENT PROPERTY LINE	— APL —	APPARENT PROPERTY LINE
121.45'	MEASURED DIMENSION	(121.45')	RECORDED DIMENSION
□	FOUND STONE	○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED	•	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
○	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)	△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED	x	FOUND CUT CROSS
+	SET CUT CROSS		

- STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.
- ^B STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS IN CULTIVATED AREA. A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
CH	CHAIN
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m ²	METER
m	SQUARE METERS
N	NORTH
N/F	NOW OR FORMERLY
N & BK	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
PL	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST



SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

B101011	PROPOSED FEE SIMPLE ACQUISITION
B10101PE	PROPOSED PERMANENT EASEMENT
B10101TE	PROPOSED TEMPORARY EASEMENT
B10101DED	PROPOSED DEDICATION
B10101AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

BASIS OF COORDINATE & BEARING STATEMENT

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 (GEOID12B)

PROJECT LOCATION:
LATITUDE: 38°46'28.69928"N NORTHING: 767628.007 SFT
FALSE NORTHING: 0.00 SFT
LONGITUDE: 89°57'25.86337"W EASTING: 2356304.568 SFT
FALSE EASTING: 0.00 SFT
HEIGHT: 473.697 FT ELEV: 575.808 FT
CM SCALE FACTOR: 1.0000773564

FIELD WORK COMPLETED ON MAY 05, 2020.

**PROJECT SURVEY CONTROL DATA
GROUND SURFACE COORDINATE SYSTEM**

POINT NO.	NORTH (FEET)	EAST (FEET)	DESCRIPTION
CP #502	767,429.4300	2,356,108.9940	IRON PIN SET W/ TWIM CONTROL CAP
CP #509	797,242.0740	2,356,510.1730	SET CUT X IN SIDEWALK
CP #MP6	767,580.1100	2,356,502.6640	SET CUT X IN MEDIAN

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS COMPLETED BY THOUVENOT, WADE, AND MOERCHEN, INC. ON MAY 05, 2020.

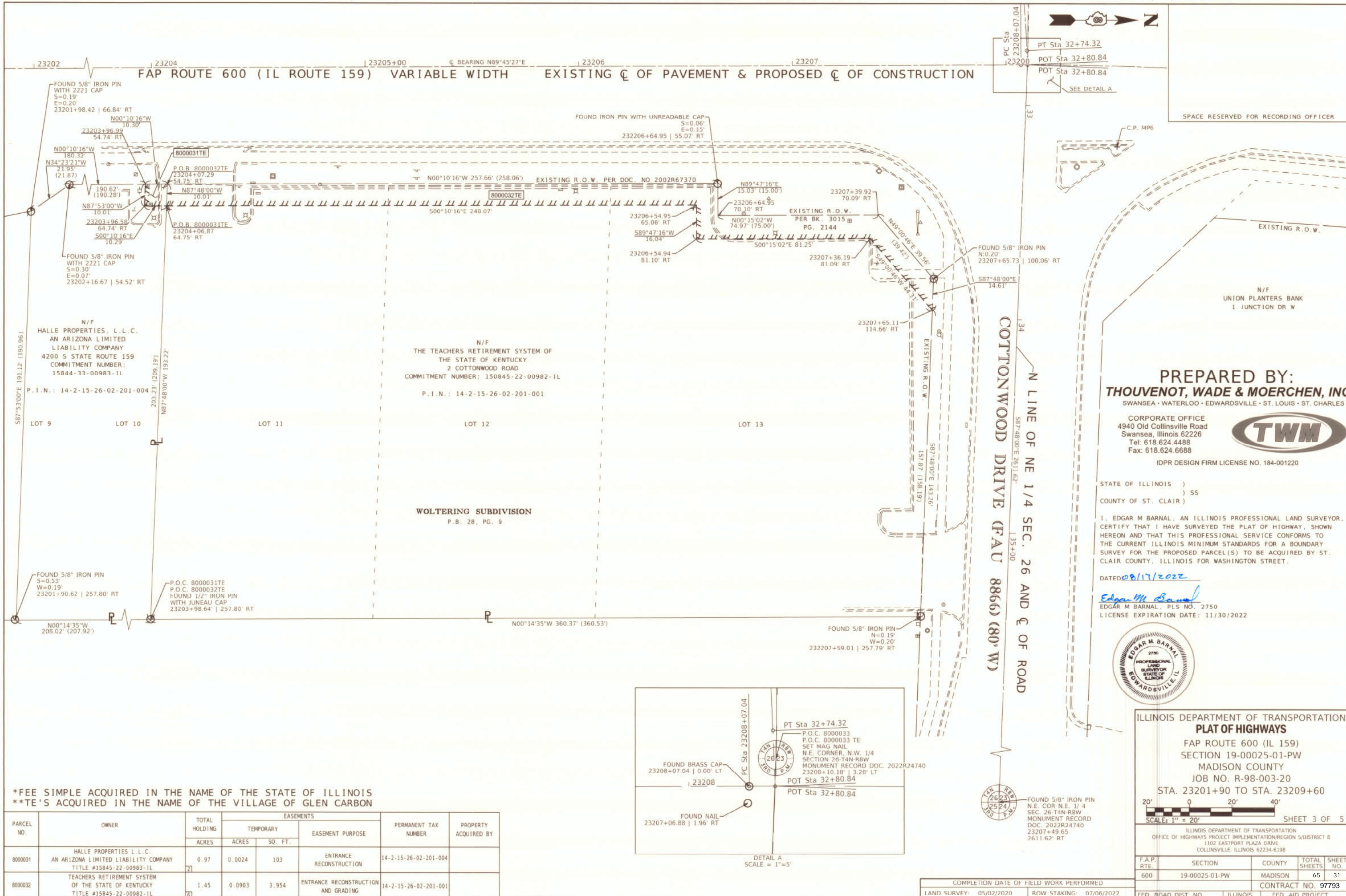


DATED 05/17/2022
Edgar M. Barnal
EDGAR M. BARNAL, PLS NO. 2750
LICENSE EXPIRATION DATE: 11/30/2022

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 600 (IL 159)
SECTION 19-00025-01-PW
MADISON COUNTY
JOB NO. R-98-003-20

SHEET 2 OF 5

COMPLETION DATE OF FIELD WORK PERFORMED				
LAND SURVEY:	05/02/2020	ROW STAKING:	07/06/2022	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	ST. CLAIR	65	30
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT
CONTRACT NO.			97793	



PREPARED BY:
THOUVENOT, WADE & MOERCHEN, INC.
 SWANSEA • WATERLOO • EDWARDSVILLE • ST. LOUIS • ST. CHARLES

CORPORATE OFFICE
 4940 Old Collinsville Road
 Swansea, Illinois 62226
 Tel: 618.624.4488
 Fax: 618.624.6688

IDPR DESIGN FIRM LICENSE NO. 184-001220

STATE OF ILLINOIS)
) SS
 COUNTY OF ST. CLAIR)

I, EDGAR M BARNAL, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY, SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY ST. CLAIR COUNTY, ILLINOIS FOR WASHINGTON STREET.

DATED 08/17/2022
Edgar M. Barnal
 EDGAR M BARNAL, PLS NO. 2750
 LICENSE EXPIRATION DATE: 11/30/2022



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 600 (IL 159)
 SECTION 19-00025-01-PW
 MADISON COUNTY
 JOB NO. R-98-003-20
 STA. 23201+90 TO STA. 23209+60

SCALE: 1" = 20'

ILLINOIS DEPARTMENT OF TRANSPORTATION
 OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

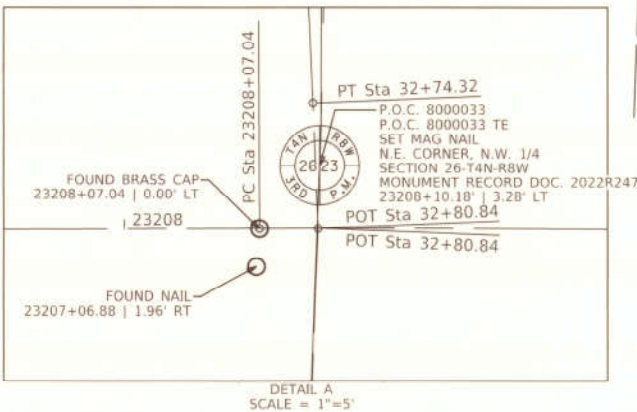
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	31

COMPLETION DATE OF FIELD WORK PERFORMED: _____
 LAND SURVEY: 05/02/2020 ROW STAKING: 07/06/2022

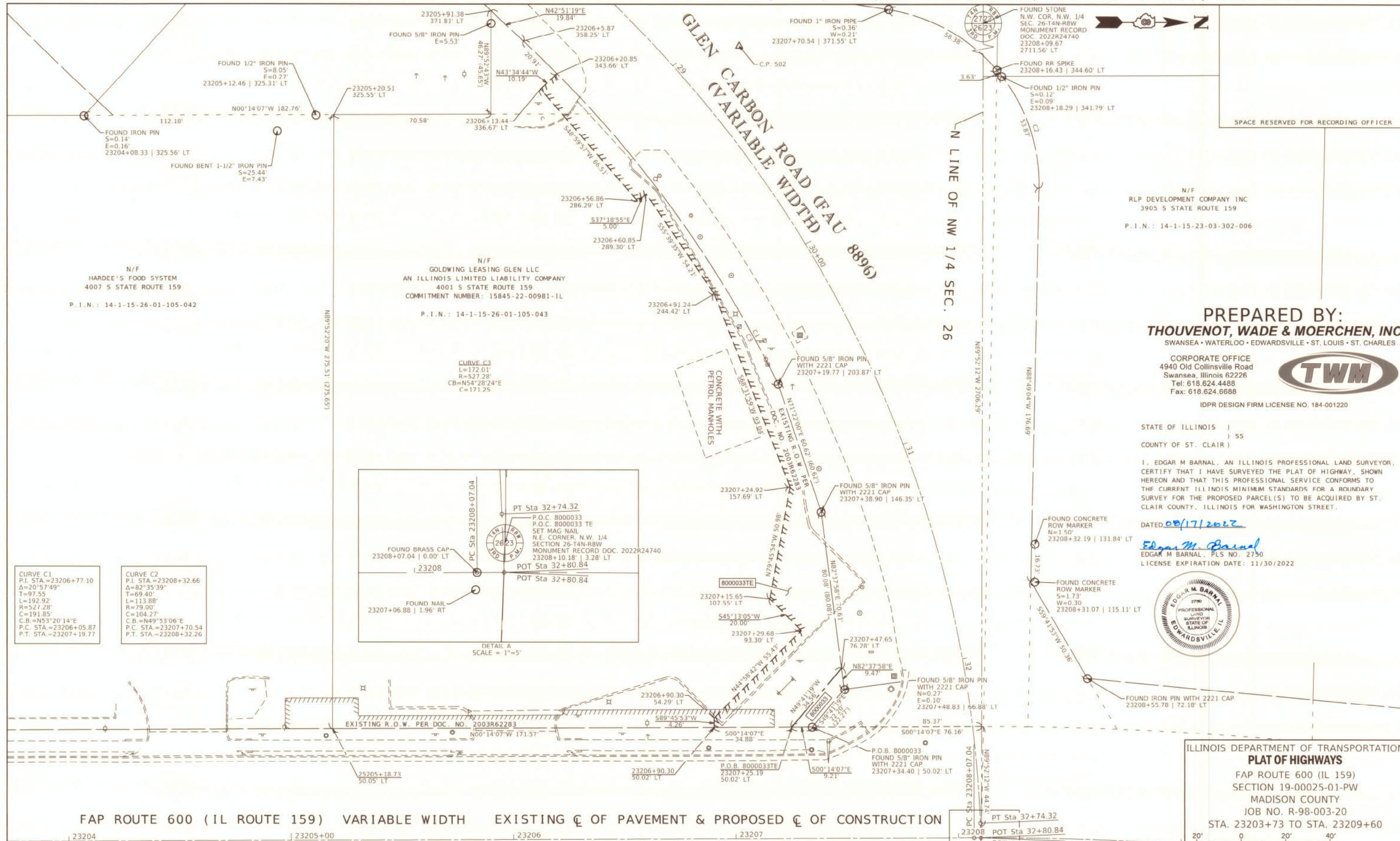
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____

*FEE SIMPLE ACQUIRED IN THE NAME OF THE STATE OF ILLINOIS
 **TE'S ACQUIRED IN THE NAME OF THE VILLAGE OF GLEN CARBON

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			TEMPORARY ACRES	SQ. FT.		
8000031	HALLE PROPERTIES L.L.C. AN ARIZONA LIMITED LIABILITY COMPANY TITLE #15845-22-00983-1L	0.97	0.0024	103	14-2-15-26-02-201-004	
8000032	TEACHERS RETIREMENT SYSTEM OF THE STATE OF KENTUCKY TITLE #15845-22-00982-1L	1.45	0.0903	3,954	14-2-15-26-02-201-001	



PART OF THE S 1/2 OF SECTION 23 & N 1/2 OF SECTION 26, T4N, R8W, OF THE 3RD PM, FOUND MADISON COUNTY, ILLINOIS



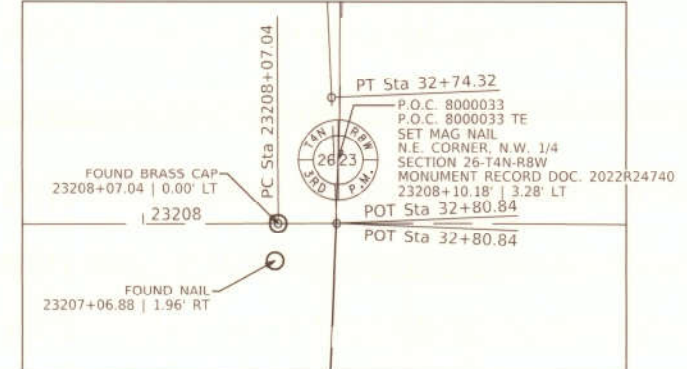
SPACE RESERVED FOR RECORDING OFFICER

N/F
RLP DEVELOPMENT COMPANY INC
3905 S STATE ROUTE 159
P.I.N.: 14-1-15-23-03-302-006

N/F
HARDEE'S FOOD SYSTEM
4007 S STATE ROUTE 159
P.I.N.: 14-1-15-26-01-105-042

N/F
GOLDWING LEASING GLEN LLC
AN ILLINOIS LIMITED LIABILITY COMPANY
4001 S STATE ROUTE 159
COMMITMENT NUMBER: 15845-22-00981-IL
P.I.N.: 14-1-15-26-01-105-043

CURVE C3
L=172.01'
R=527.28'
CB=N54°28'24"E
C=171.25'



CURVE C1
P.I. STA = 23206+77.10
Δ = 20°57'49"
T = 97.55'
L = 192.92'
R = 527.28'
C = 191.85'
C.B. = N53°20'14"E
P.C. STA = 23206+05.87
P.T. STA = 23207+19.77

CURVE C2
P.I. STA = 23208+32.66
Δ = 82°35'39"
T = 69.40'
L = 113.88'
R = 79.00'
C = 104.27'
C.B. = N49°53'06"E
P.C. STA = 23207+70.54
P.T. STA = 23208+32.26

PREPARED BY:
THOUVENOT, WADE & MOERCHEN, INC.
SWANSEA • WATERLOO • EDWARDSVILLE • ST. LOUIS • ST. CHARLES

CORPORATE OFFICE
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
Fax: 618.624.6688

TWM

IDPR DESIGN FIRM LICENSE NO. 184-001220

STATE OF ILLINOIS)
COUNTY OF ST. CLAIR) 55

I, EDGAR M BARNAL, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY, SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY ST. CLAIR COUNTY, ILLINOIS FOR WASHINGTON STREET.

DATED: 08/17/2022
Edgar M. Barnal
EDGAR M BARNAL, PLS NO. 2750
LICENSE EXPIRATION DATE: 11/30/2022



FAP ROUTE 600 (IL ROUTE 159) VARIABLE WIDTH EXISTING C OF PAVEMENT & PROPOSED C OF CONSTRUCTION

*FEE SIMPLE ACQUIRED IN THE NAME OF THE STATE OF ILLINOIS
**TE'S ACQUIRED IN THE NAME OF THE VILLAGE OF GLEN CARBON

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		TEMPORARY ACRES	SQ. FT.		
8000033	GOLDWING LEASING-GLEN, LLC AN ILLINOIS LIMITED LIABILITY COMPANY TITLE #15845-22-00981-IL	1.45	0.0046	199	1.45	0.1087	4,735	14-1-15-26-01-105-043	GRADING AND PARKING LOT RECONSTRUCTION

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 600 (IL 159)
SECTION 19-00025-01-PW
MADISON COUNTY
JOB NO. R-98-003-20
STA. 23203+73 TO STA. 23209+60

20' 0 20' 40'
SCALE: 1" = 20'

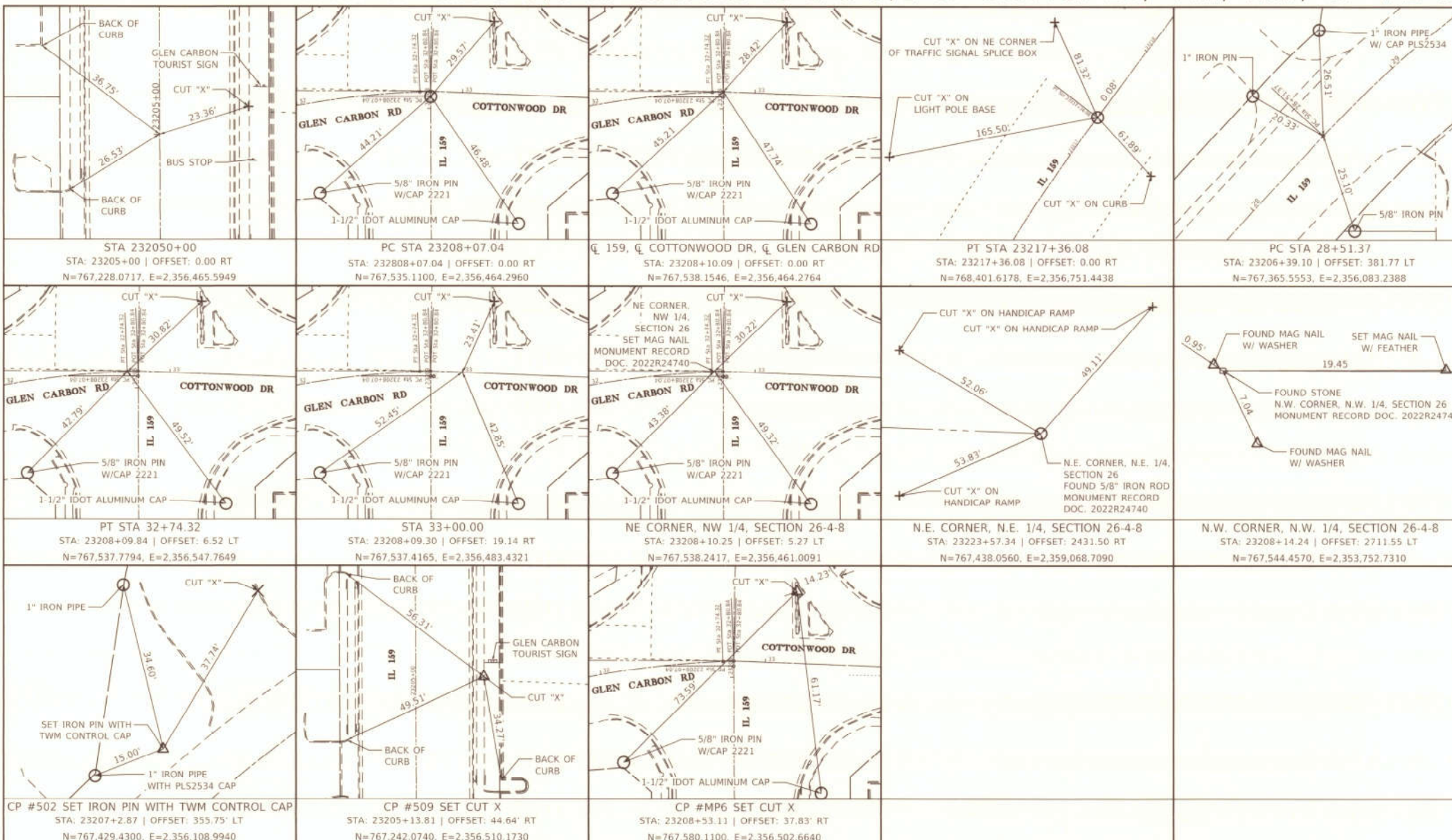
SHEET 4 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	32

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 05/02/2020 ROW STAKING: 07/06/2022

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PART OF THE S 1/2 OF SECTION 23 & N 1/2 OF SECTION 26, T4N, R8W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS



SPACE RESERVED FOR RECORDING OFFICER

PREPARED BY:
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 COUNTY OF ST. CLAIR)

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DATED 08/17/2022

Edgar M Barnal
 EDGAR M BARNAL, PLS NO. 2750
 LICENSE EXPIRATION DATE: 11/30/2022



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 600 (IL 159)
 SECTION 19-00025-01-PW
 MADISON COUNTY
 JOB NO. R-98-003-20
 CONTROL POINTS

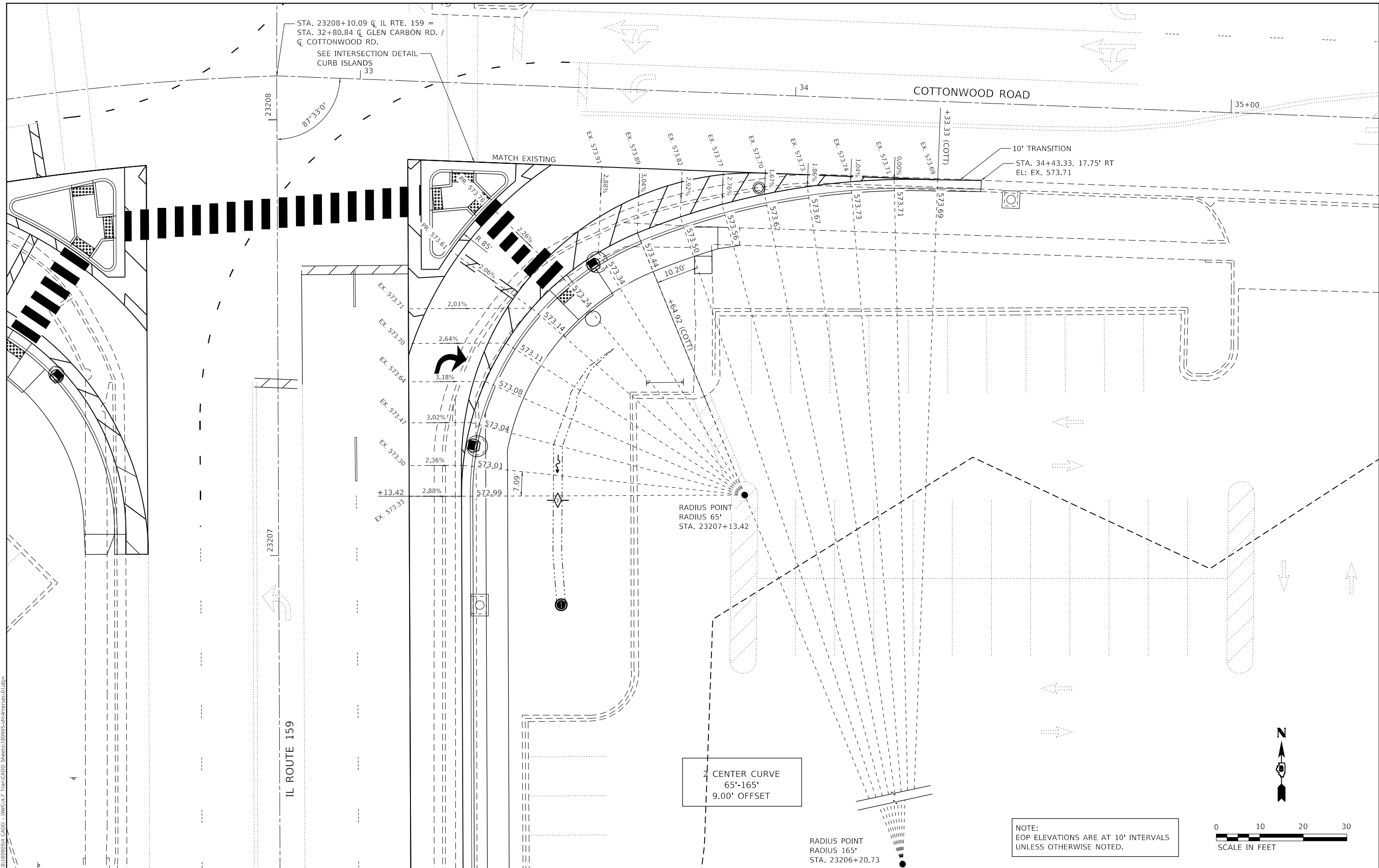


ILLINOIS DEPARTMENT OF TRANSPORTATION
 OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	33

CONTRACT NO. 97793

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 05/02/2020 ROW STAKING: 07/06/2022



STA. 23208+10.09 C IL RTE. 159 =
 STA. 32+80.84 C GLEN CARBON RD. /
 C COTTONWOOD RD.
 SEE INTERSECTION DETAIL
 CURB ISLANDS
 33

COTTONWOOD ROAD

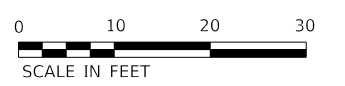
IL ROUTE 159

2 CENTER CURVE
 65'-165'
 9.00' OFFSET

RADIUS POINT
 RADIUS 165'
 STA. 23206+20.73

RADIUS POINT
 RADIUS 65'
 STA. 23207+13.42

NOTE:
 EOP ELEVATIONS ARE AT 10' INTERVALS
 UNLESS OTHERWISE NOTED.



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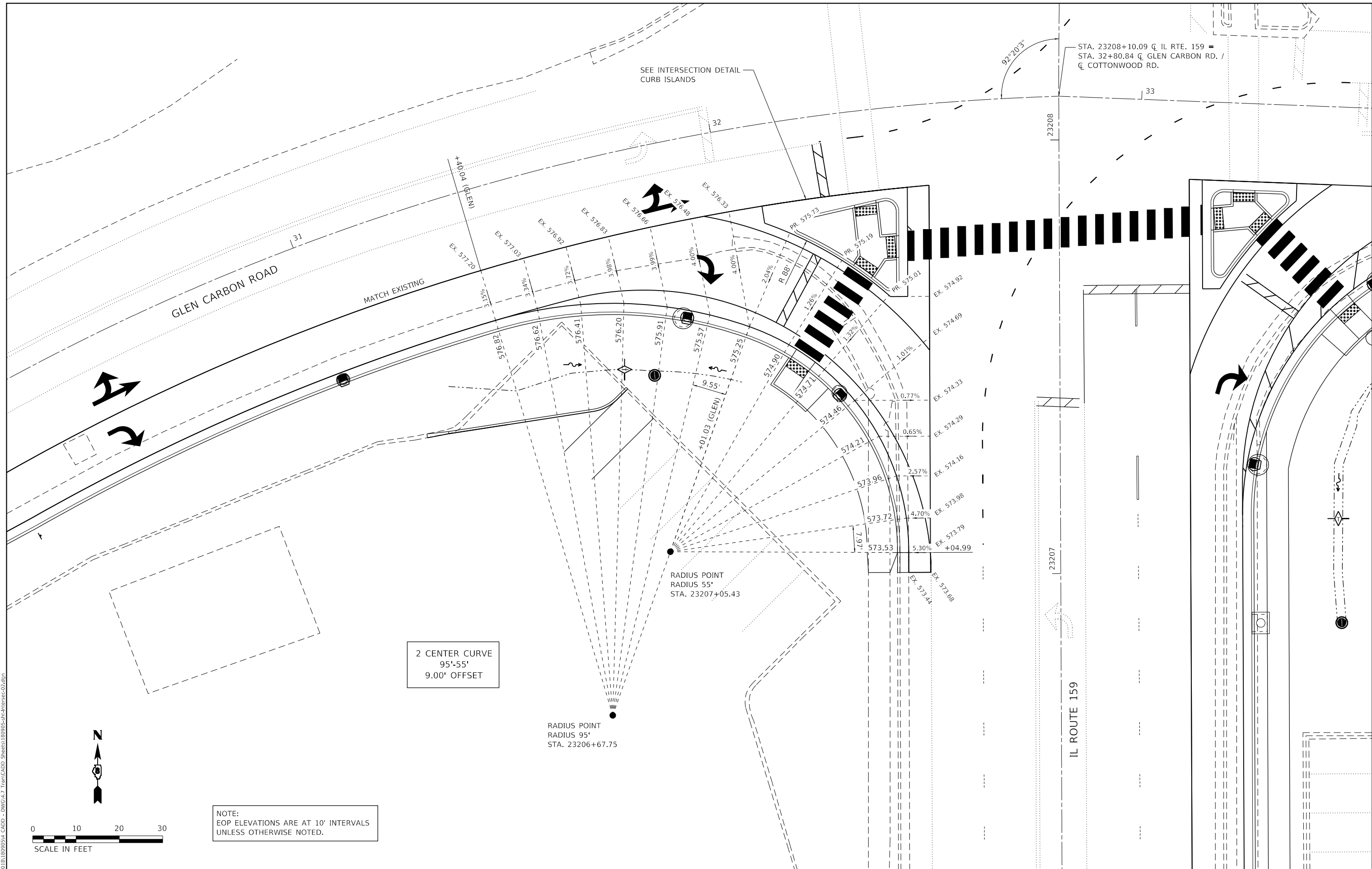
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PLOT SCALE = 20.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**INTERSECTION DETAILS
 SE QUADRANT**

SCALE: 1" = 10' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 34
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				



NOTE:
EOP ELEVATIONS ARE AT 10' INTERVALS
UNLESS OTHERWISE NOTED.

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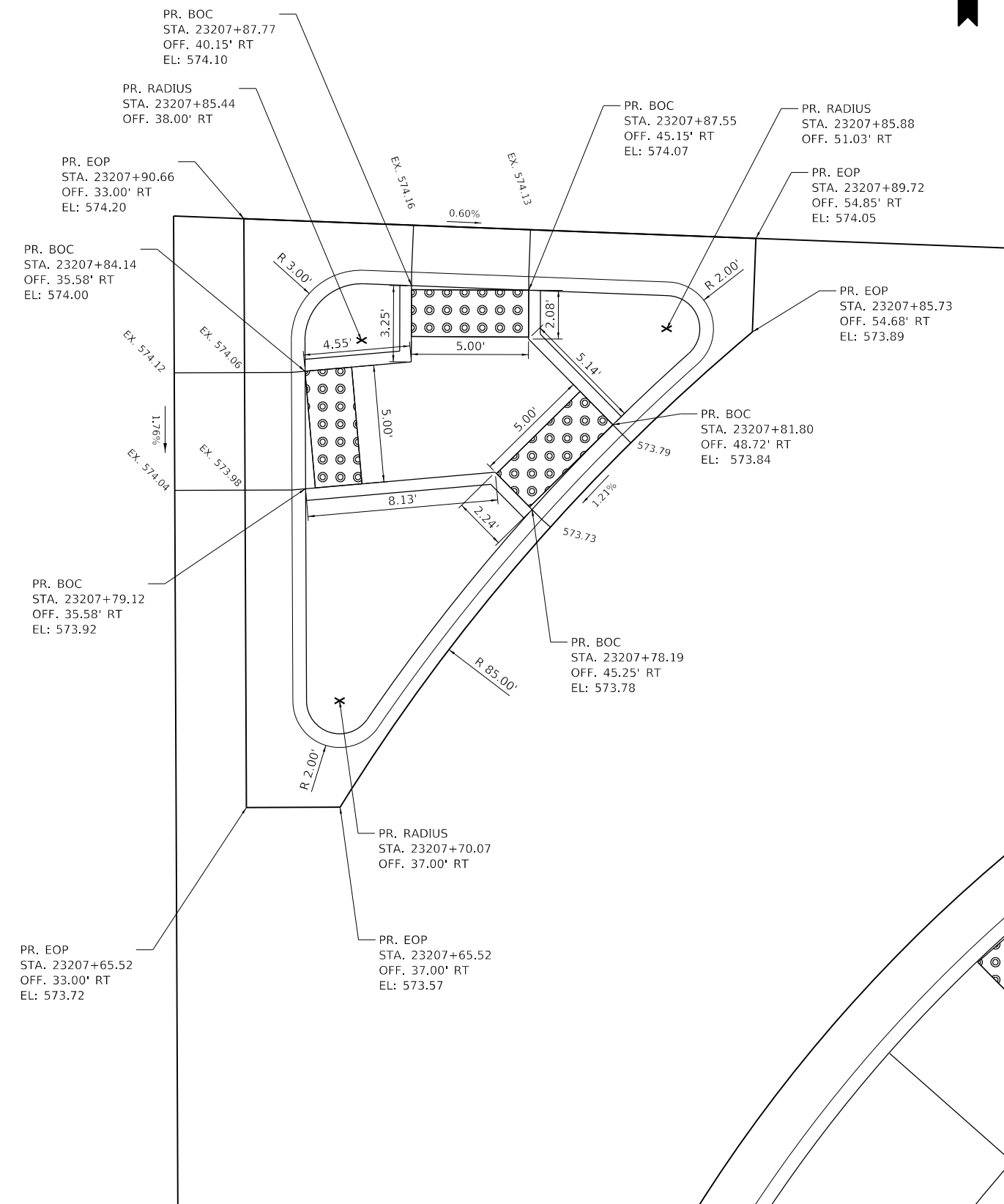
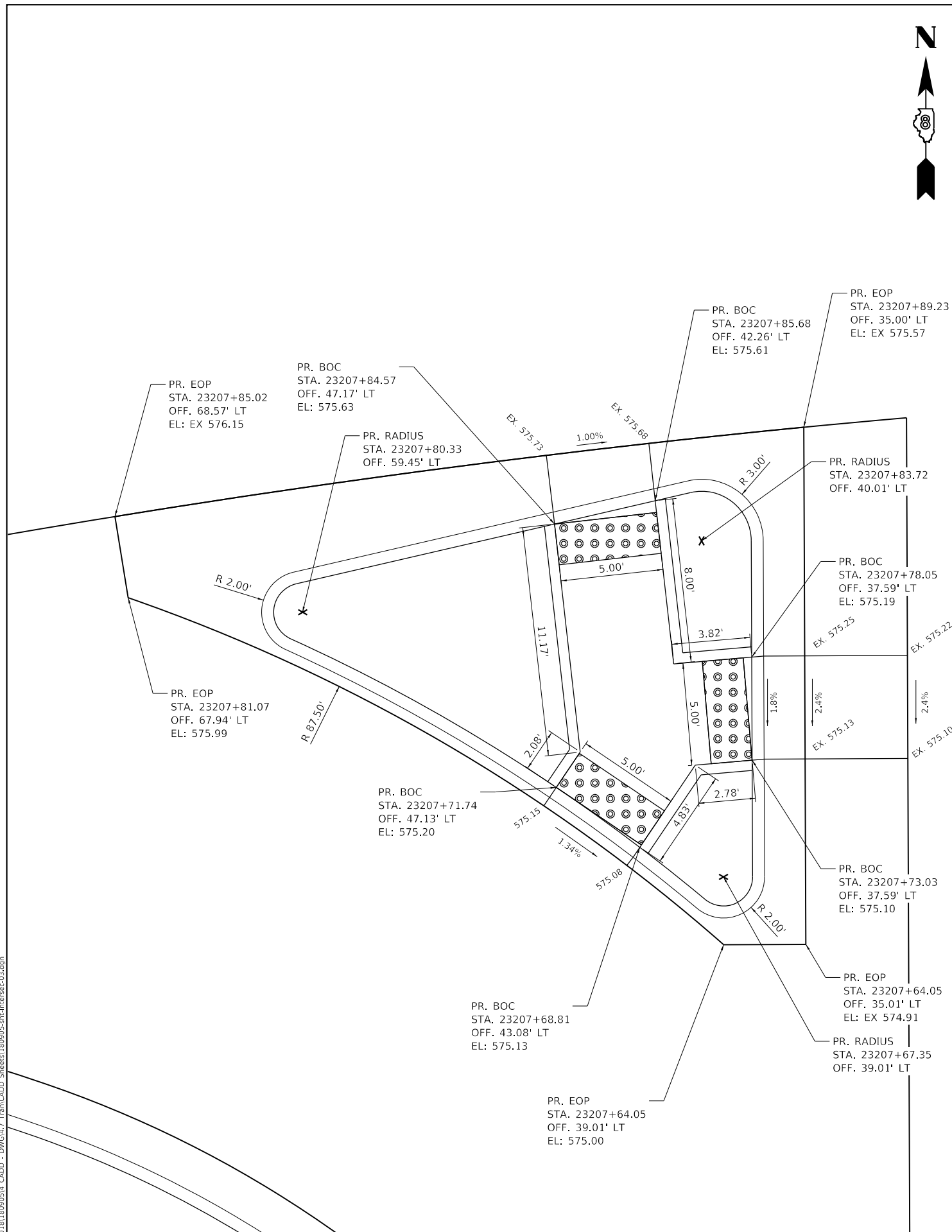
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PLOT SCALE = 20.0000 ' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



**INTERSECTION DETAILS
SW QUADRANT**

SCALE: 1" = 10' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-0025-01-PW	MADISON	65	35
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



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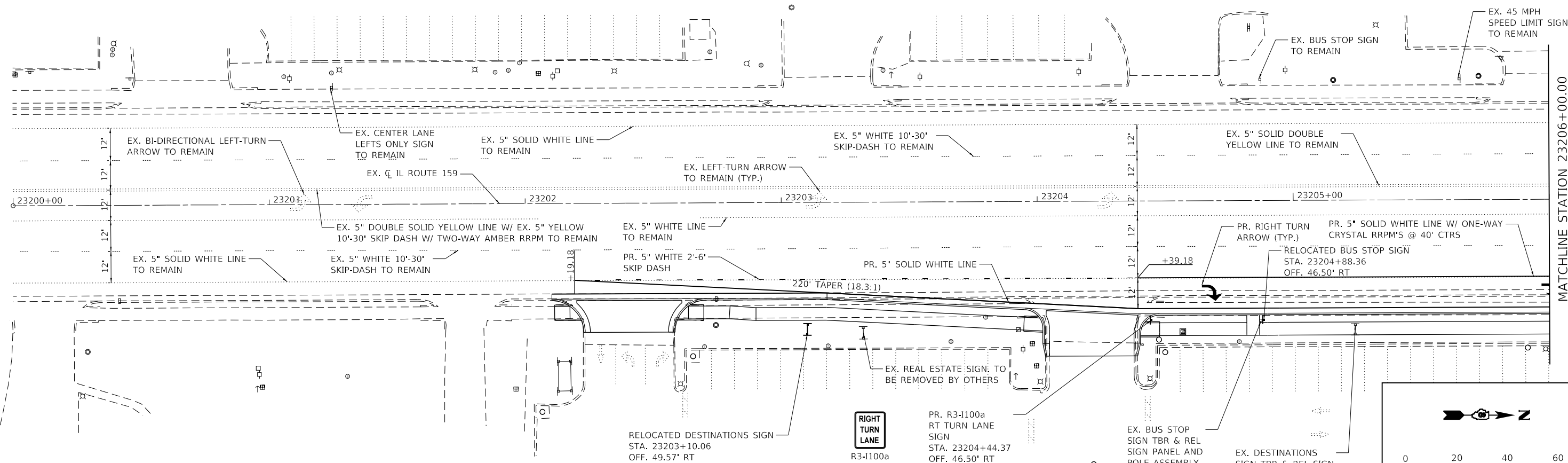
USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
DRAWN - BAB	REVISIONS -	
CHECKED - JWS	REVISIONS -	
DATE - AUG 2022	REVISIONS -	
PLOT SCALE = 6,000' / in.		
PLOT DATE = 8/15/2024		



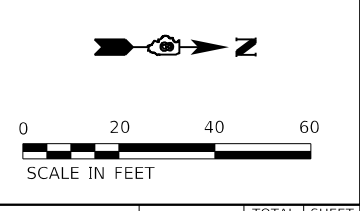
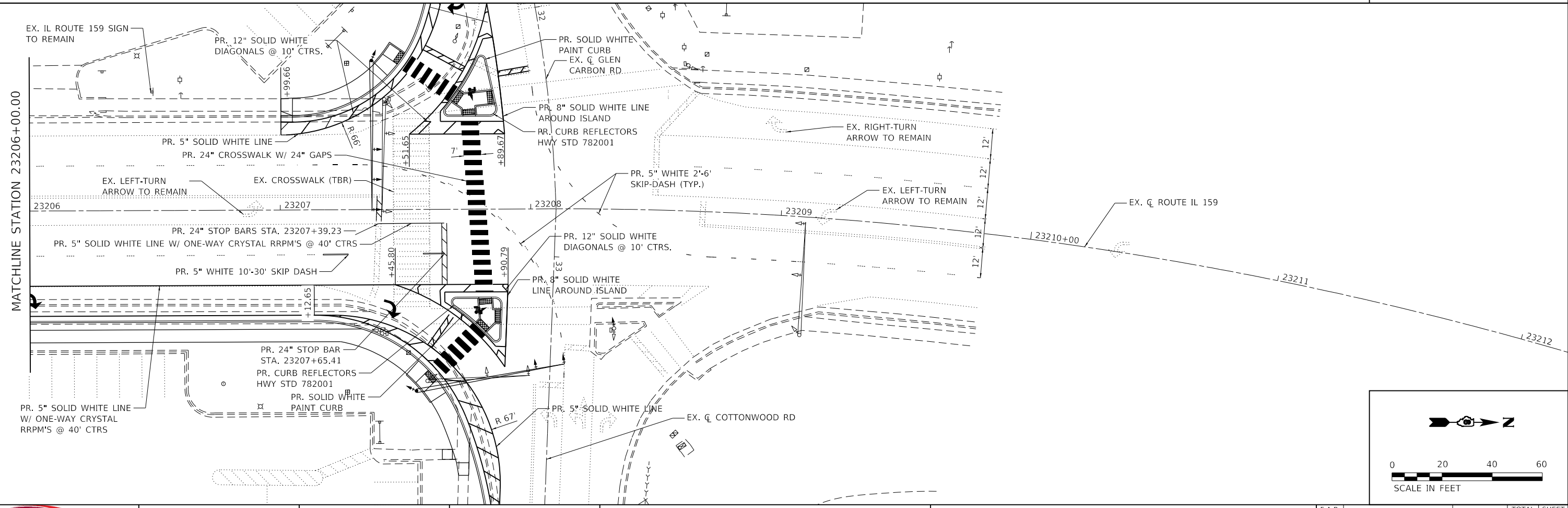
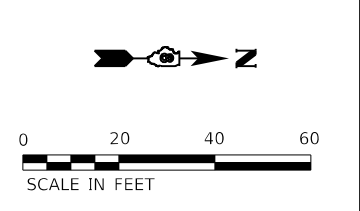
**INTERSECTION DETAILS
CURB ISLANDS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	36
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



NOTE:
1. ALL PAVEMENT MARKING SHALL BE PREFORMED PLASTIC, TYPE D UNLESS OTHERWISE NOTED.



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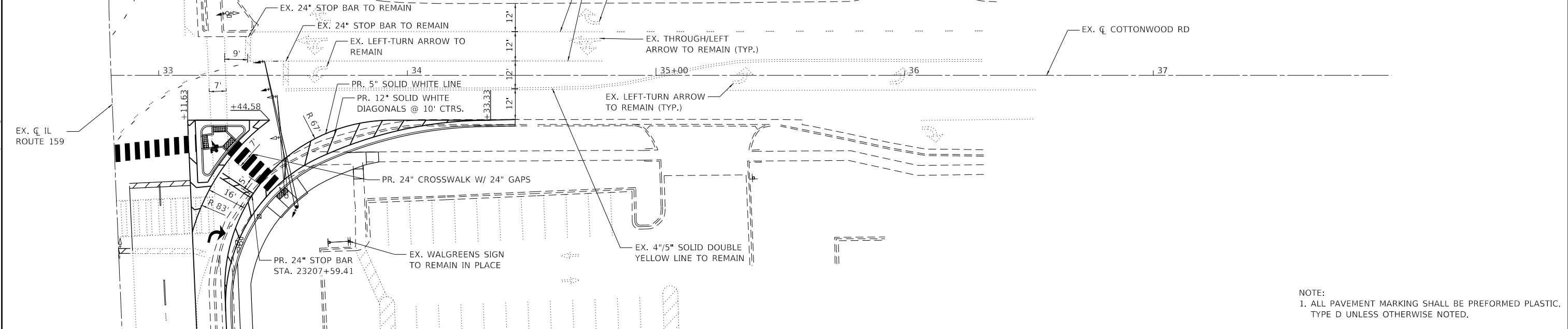
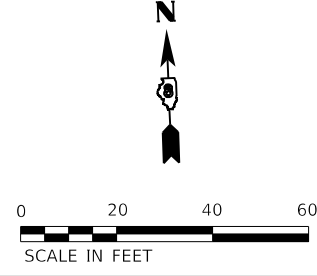
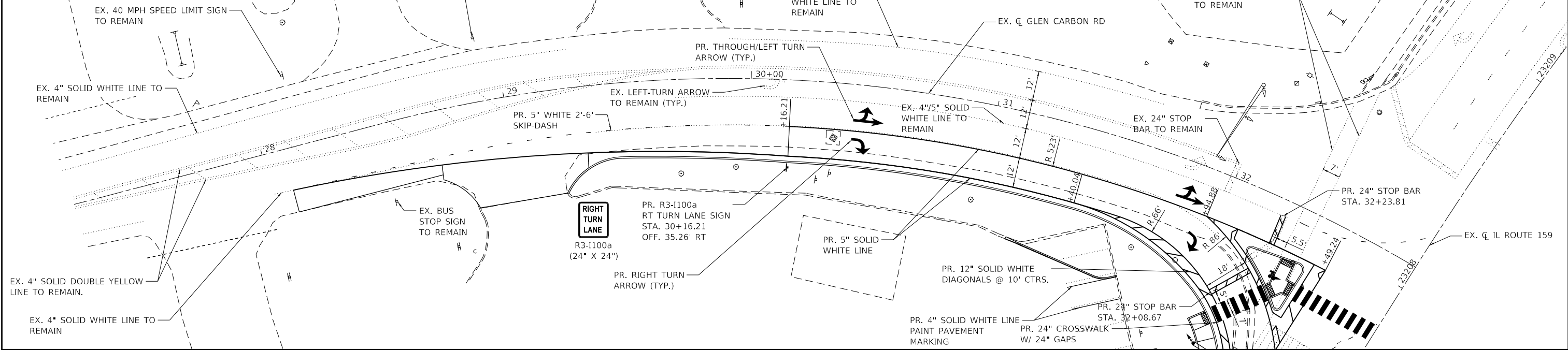
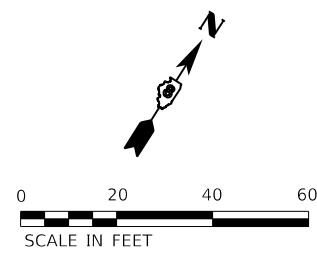


USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



PAVEMENT MARKING AND SIGNAGE SHEET
IL ROUTE 159
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 23200+00.00 TO STA. 23207+90.66

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	



NOTE:
1. ALL PAVEMENT MARKING SHALL BE PERFORMED PLASTIC, TYPE D UNLESS OTHERWISE NOTED.

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

USER NAME = mschwierjohn
DESIGNED - MLS
DRAWN - BAB
CHECKED - JWS
DATE - AUG 2022

REVISED -
REVISED -
REVISED -
REVISED -



**PAVEMENT MARKING AND SIGNAGE SHEET
E GLEN CARBON ROAD/COTTONWOOD ROAD**

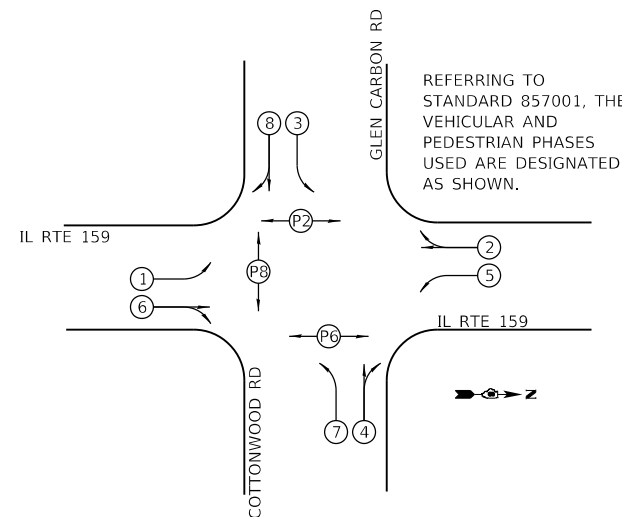
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	38
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 27+50.00 TO STA. 34+43.33

GENERAL NOTES

- TRAFFIC SIGNALS SHALL BE OPERATIONAL AND ALL TRAFFIC SIGNAL WORK SHALL BE COMPLETED DURING THE IL ROUTE 159 /GLEN CARBON ROAD /COTTONWOOD ROAD 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.
- ALL MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE BACKPLATES. BACKPLATES SHALL BE PLASTIC WITH YELLOW.
- THE LOCATION OF THE MAST ARM SUPPORTS SHALL BE APPROVED BY THE IDOT BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM.
- 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 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 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.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF IDOT AND SHALL BE DELIVERED TO THEIR MAINTENANCE FACILITY AS DIRECTED BY THE ENGINEER.
- LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
- ANY EXTENDERS NECESSARY FOR INSTALLATION OF THE PEDESTRIAN PUSH BUTTONS SHALL BE INCIDENTAL TO THE PRICE FOR RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON.
- EXISTING TRAFFIC SIGNAL EQUIPMENT AND 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.
- MAST ARMS AND TRAFFIC SIGNAL POSTS SHALL BE PAINTED BLACK TO MATCH EXISTING TRAFFIC SIGNAL ITEMS. COST INCLUDED IN COST OF MAST ARMS AND TRAFFIC SIGNAL POSTS.
- THE FOLLOWING IDOT STANDARDS SHALL APPLY TO CONSTRUCTION OF THE SIGNALS: 000001-08, 720016-04, 814001-03, 814006-03, 838001-01, 857001-01, 873001-02, 877002-04, 878001-11, 880001-01, 880006-01, 886001-01, 886006-01.

CODE NUMBER	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	19.25
72000200	SIGN PANEL - TYPE 2	SQ FT	13.00
72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	13.75
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	3.76
80300100	LOCATING UNDERGROUND CABLE	FOOT	570
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	38
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	126
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	112
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	156
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	63
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	10
81400100	HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1220
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1220
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1112
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2027
87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	1981
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	111
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2
87700400	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
87900200	DRILL EXISTING HANDHOLE	EACH	1
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88200300	TRAFFIC SIGNAL BACKPLATE, PLASTIC	EACH	5
88500520	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY AND CALL CARRY-OVER, DIGITAL DESIGN	EACH	7
88600100	DETECTOR LOOP, TYPE I	FOOT	1301
89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	4
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
89502100	REBUILD EXISTING SIGNAL HEAD	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6544
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	198



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS INTERSECTION OF IL ROUTE 159 WITH GLEN CARBON ROAD /COTTONWOOD ROAD					
LOOP	PHASE	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
IL RTE 159 NB THRU (LT SIDE)	6	6' X 50' (Q)	3-6-3	839.372	2.803
IL RTE 159 NB THRU (RT SIDE)	6	6' X 50' (Q)	3-6-3	836.292	2.733
IL RTE 159 NB RT	6	6' X 50' (Q)	3-6-3	829.824	2.586
IL RTE 159 NB LT	1	6' X 50' (Q)	3-6-3	842.30	2.870
GLEN CARBON RD EB THRU/LEFT	3	6' X 50' (Q)	3-6-3	870.150	3.503
GLEN CARBON RD EB RT	8	6' X 50' (Q)	3-6-3	870.766	3.517
GLEN CARBON RD EB LT	3	6' X 50' (Q)	3-6-3	886.14	3.866

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

EXISTING AND PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT								
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6 RT 3 & 8	8	7	1 OR 2	1 OR 2 RT 4 & 7	4	3

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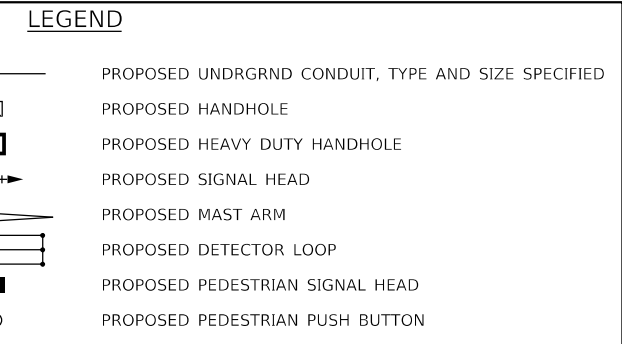
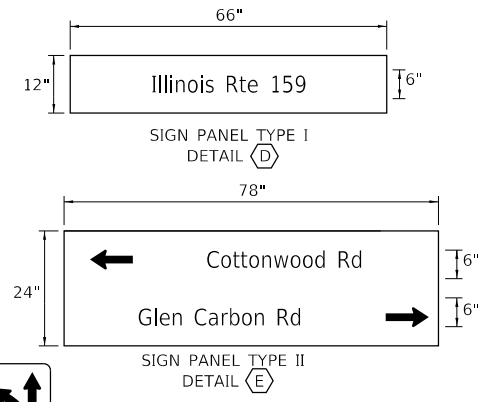
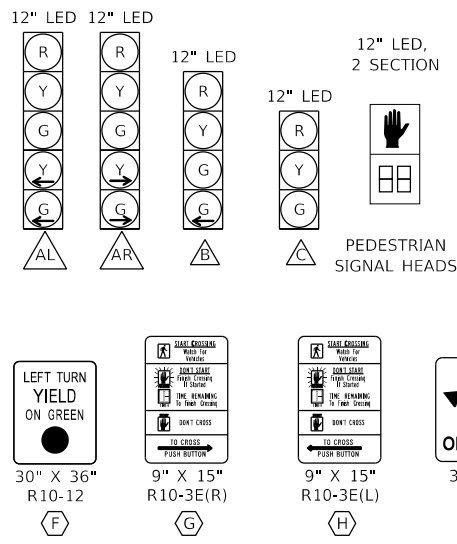
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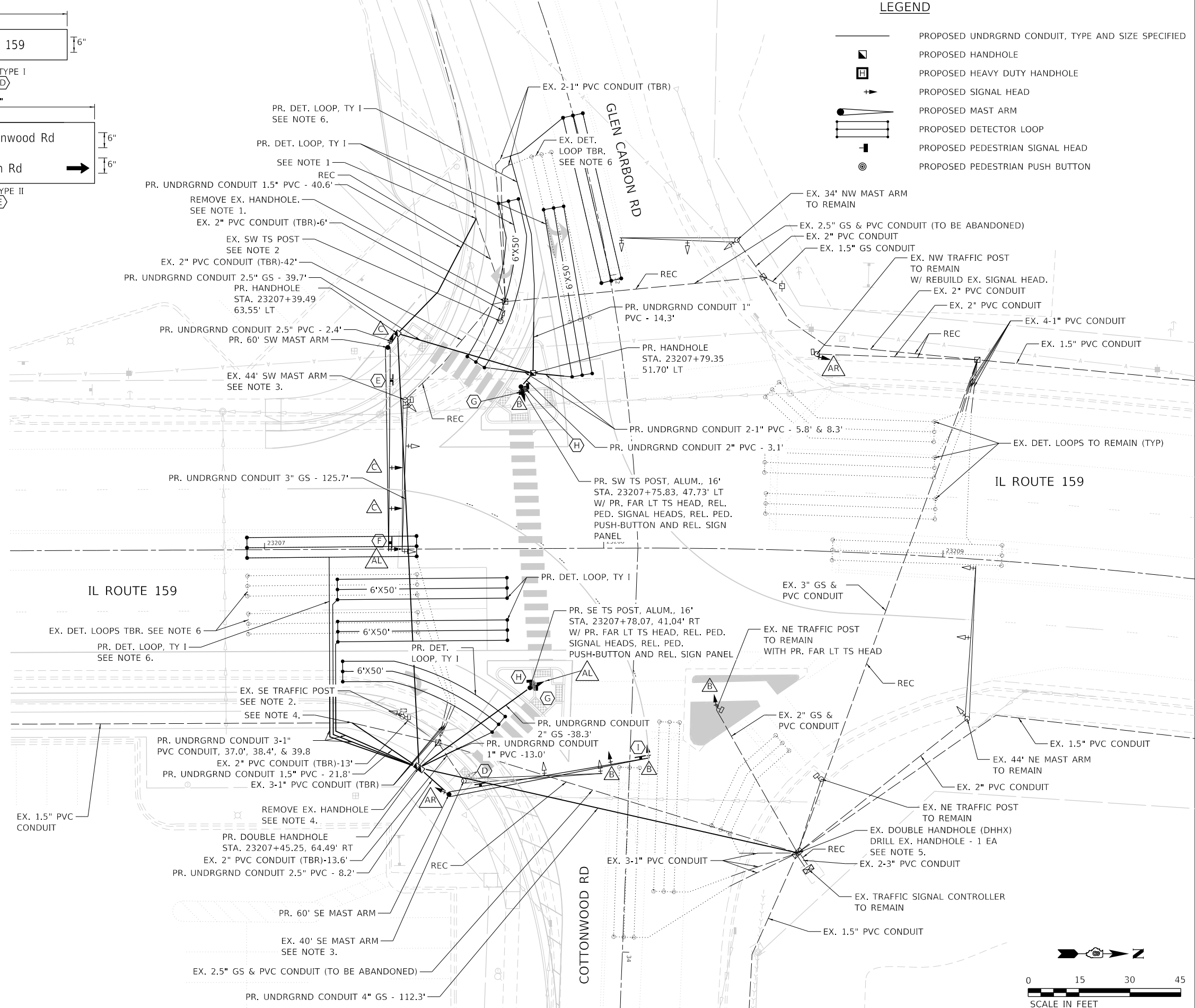
**TRAFFIC SIGNAL GENERAL NOTES, SUMMARY OF QUANTITIES, & DETAILS
IL ROUTE 159 /GLEN CARBON ROAD /COTTONWOOD ROAD**

SCALE: NTS SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	39
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



- NOTE:**
- REMOVE EX. HANDHOLE. CUT OFF EXISTING CONDUIT TO REMAIN AT APPROX. STA. 23207+62.80, 97.35' LT. PROTECT ELECTRIC CABLES FROM DAMAGE DURING CUTTING. SPLICE CABLES TO REMAIN. COST FOR THE NEW CONNECTION IS INCLUDED IN THE COST TO REMOVE EX. HANDHOLE.
 - REMOVE EX. CONC. FOUNDATION AND TRAFFIC SIGNAL EQUIPMENT. EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDES BUT NOT LIMITED TO THE TRAFFIC SIGNAL POST, SIGNAL HEAD, PED. SIGNALS, AND PED. PUSH BUTTONS. REMOVE THE CONDUIT AND CABLE BETWEEN THE EX. TS POST TO BE REMOVED AND EX. HANDHOLE TO BE REMOVED. COST INCLUDED IN COST OF REMOVE EX. TRAFFIC SIGNAL EQUIPMENT. EX. PED. SIGNAL HEADS, EX. PED. PUSH-BUTTONS AND PED. SIGN PANELS SHALL BE RELOCATED PER PLANS.
 - REMOVE EX. CONC. FOUNDATION AND TRAFFIC SIGNAL EQUIPMENT. EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDES BUT NOT LIMITED TO THE MAST ARM ASSEMBLY AND POST, SIGNAL HEADS, PED. SIGNALS, AND PED. PUSH BUTTONS. REMOVE THE CONDUIT BETWEEN THE EX. MAST ARM TO BE REMOVED AND EX. HANDHOLE TO BE REMOVED. COST INCLUDED IN COST OF REMOVE EX. TRAFFIC SIGNAL EQUIPMENT. EX. PED. SIGNAL HEADS, EX. PED. PUSH-BUTTONS AND PED. SIGN PANELS SHALL BE RELOCATED PER PLANS.
 - REMOVE EX. HANDHOLE. CUT OFF EXISTING CONDUIT TO REMAIN AT APPROX. STA. 23207+25.61, 51.16' RT. PROTECT ELECTRIC CABLES FROM DAMAGE DURING CUTTING. SPLICE CABLES TO REMAIN. COST FOR THE NEW CONNECTION IS INCLUDED IN THE COST TO REMOVE EX. HANDHOLE.
 - EX. DOUBLE HANDHOLE TO REMAIN. CAP CONDUIT TO BE ABANDONED.
 - THE EX. DETECTOR LOOP WILL BE REMOVED AS NECESSARY TO NOT INTERFERE WITH THE PR. DETECTOR LOOP, TY I. THIS WILL INCLUDE REMOVING THE CONDUIT AND ELECTRIC CABLE AS NECESSARY TO THE EX. HANDHOLE TO BE REMOVED. THE COST TO REMOVE AND REPLACE THE DETECTOR LOOPS IS INCLUDED IN DETECTOR LOOP REPLACEMENT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
 - REC = REMOVE ELECTRIC CABLE FROM CONDUIT.



MAST ARM SCHEDULE			
LOCATION STA. OFFSET	ARM LENGTH	FOUNDATION DIAMETER	FOUNDATION DEPTH
SW 23207+36.61, 59.46' LT	60'	42"	21'-0"
SE 23207+54.08, 72.35' RT	60'	42"	21'-0"

MAST ARM FOUNDATION DETAILS SHALL BE IN ACCORDANCE WITH STANDARD 787001 EXCEPT FOR LENGTHS AS MODIFIED BY THE MAST ARM SCHEDULE. FOUNDATION DEPTH IS BASED ON ASSUMED MAST ARM ASSEMBLY AND POLE CONFIGURATIONS. MAST ARM ASSEMBLY AND POLE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL REVIEW AND APPROVAL OF THE FOUNDATION DEPTHS.

* FOR FOUNDATIONS DRILLED IN BACKSLOPE REGIONS, DEPTH SHALL BE MEASURED FROM THE FINISH GRADE AT THE CENTERLINE OF THE FOUNDATION.

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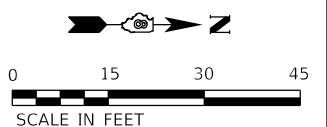


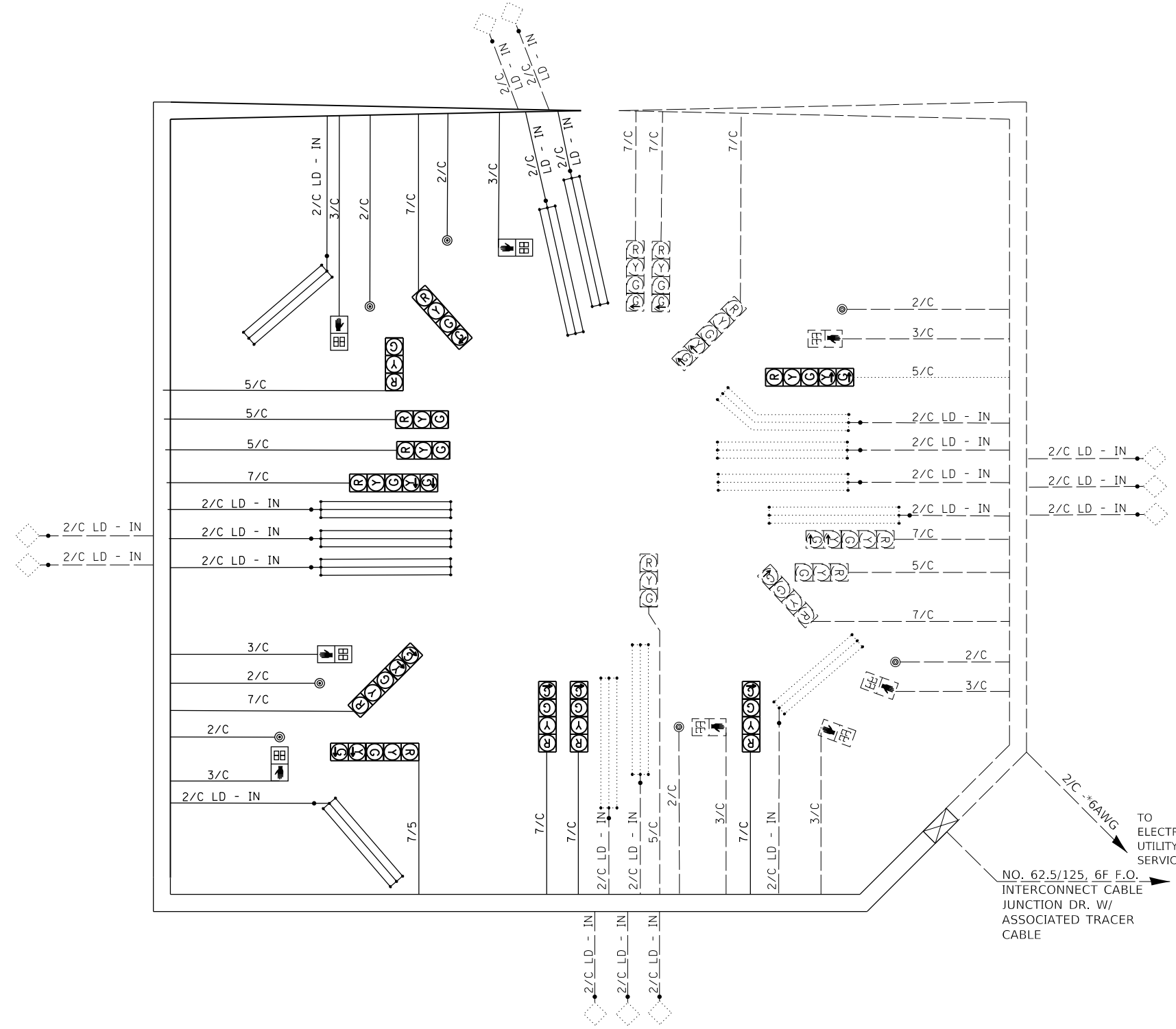
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	DATE - AUG 2022	REVISED -



TRAFFIC SIGNAL PLAN
IL ROUTE 159/GLEN CARBON ROAD/COTTONWOOD ROAD
 SCALE: 1" = 15' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	40
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				





LEGEND

- EXISTING CABLE
- PROPOSED CABLE
- CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- TW SH INDICATES TWISTED SHIELDED CABLE
- PR. TRAFFIC SIGNAL CONTROLLER CABINET
- EX. 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- PR. 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- EXISTING DETECTOR LOOP, CD INDICATES CALL DELAY
- PROPOSED DETECTOR LOOP, CD INDICATES CALL DELAY
- EXISTING 6' X 6' CALL CARRY OVER DETECTOR LOOP
- EXISTING PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2 FACE, BRACKET MOUNTED, COUNTDOWN
- RELOCATED PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2 FACE, BRACKET MOUNTED, COUNTDOWN
- EXISTING PEDESTRIAN PUSH-BUTTON
- RELOCATED PEDESTRIAN PUSH-BUTTON

TO ELECTRIC UTILITY SERVICE
 NO. 62.5/125, 6F F.O. INTERCONNECT CABLE JUNCTION DR. W/ ASSOCIATED TRACER CABLE

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	DRAWN - BAB	REVISED -
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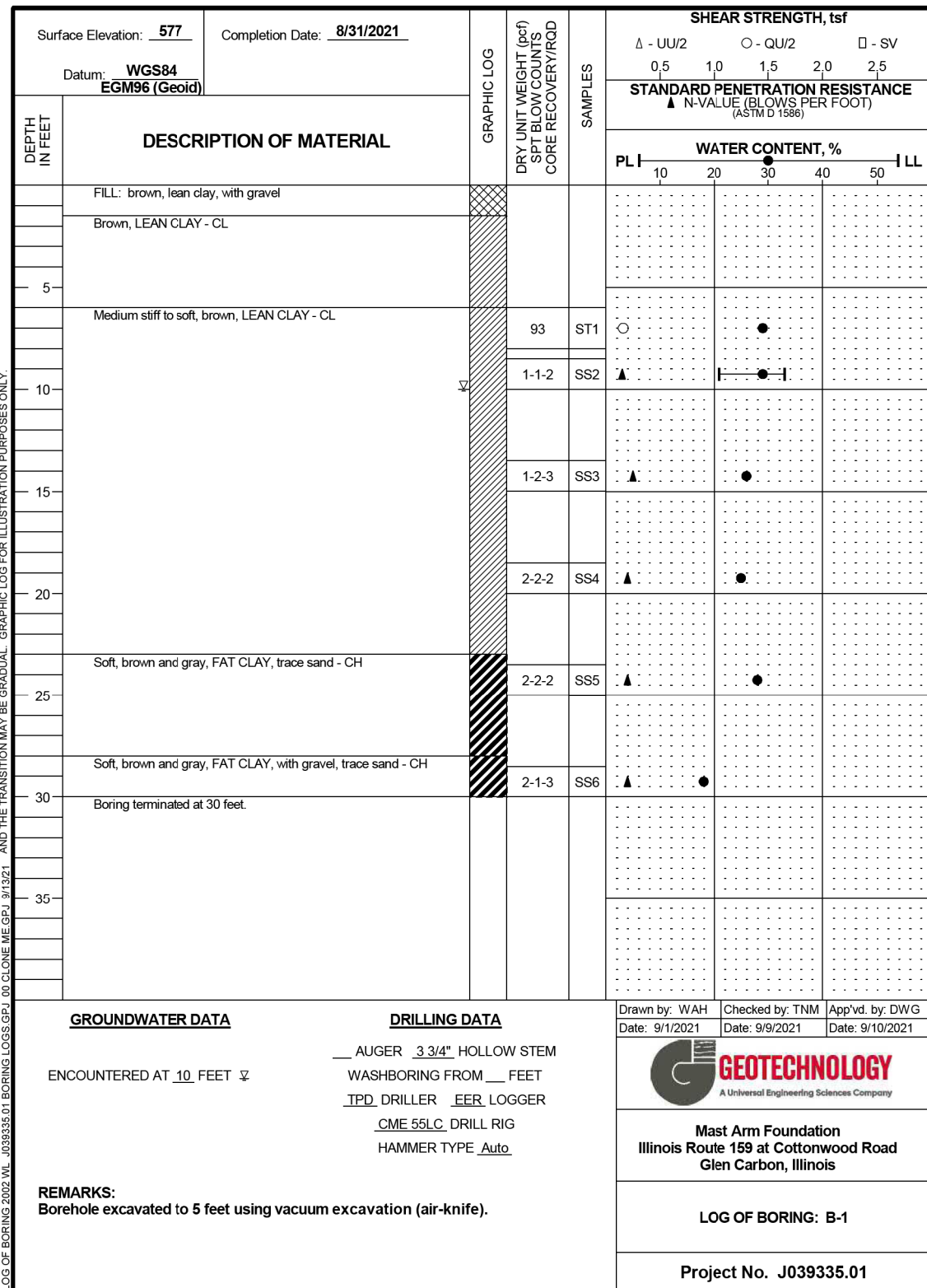


TRAFFIC SIGNAL CABLE DIAGRAM
IL ROUTE 159 /GLEN CARBON ROAD /COTTONWOOD ROAD

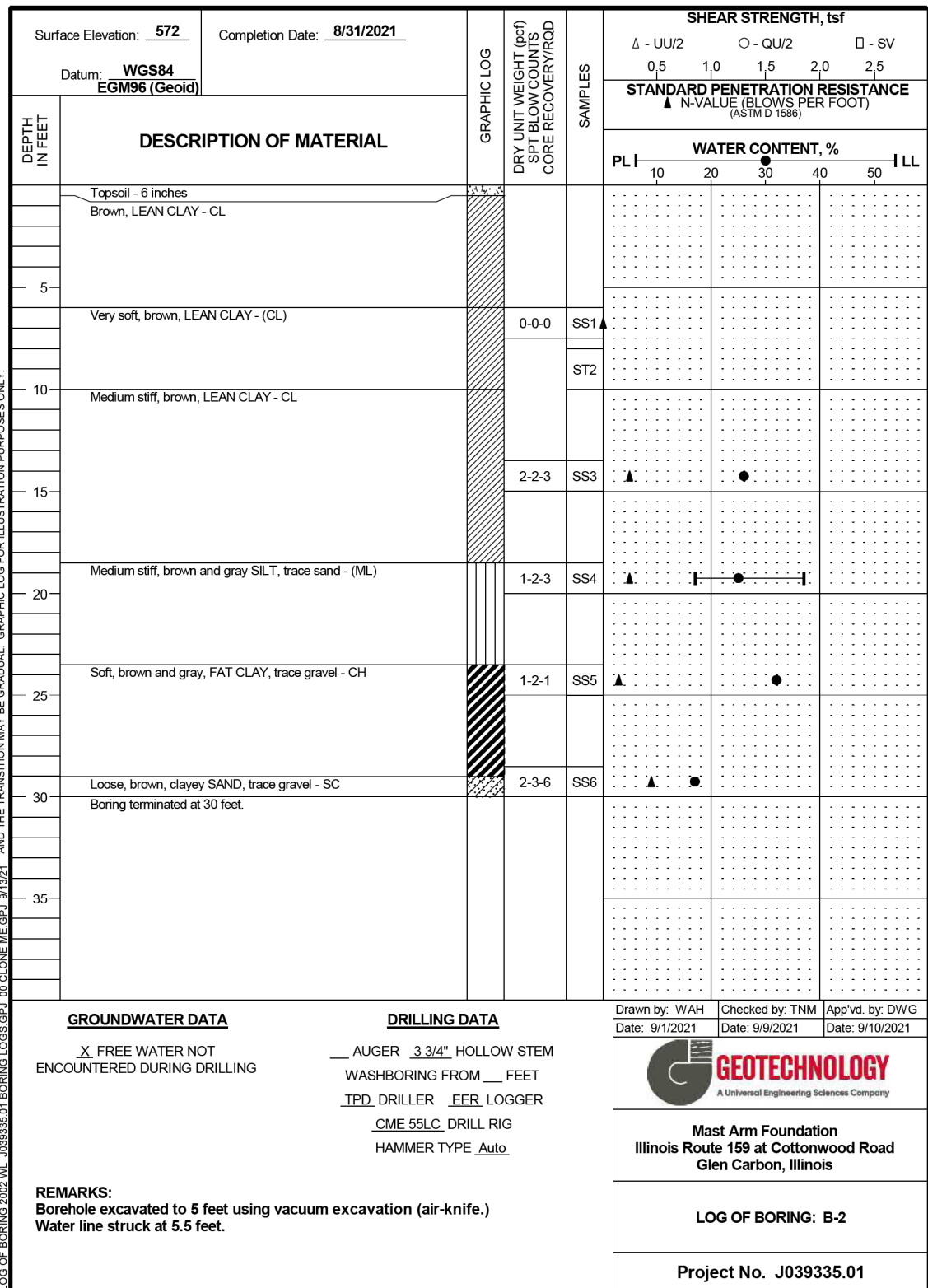
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	41
CONTRACT NO. 97793				

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

ILLINOIS FED. AID PROJECT



NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.



NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

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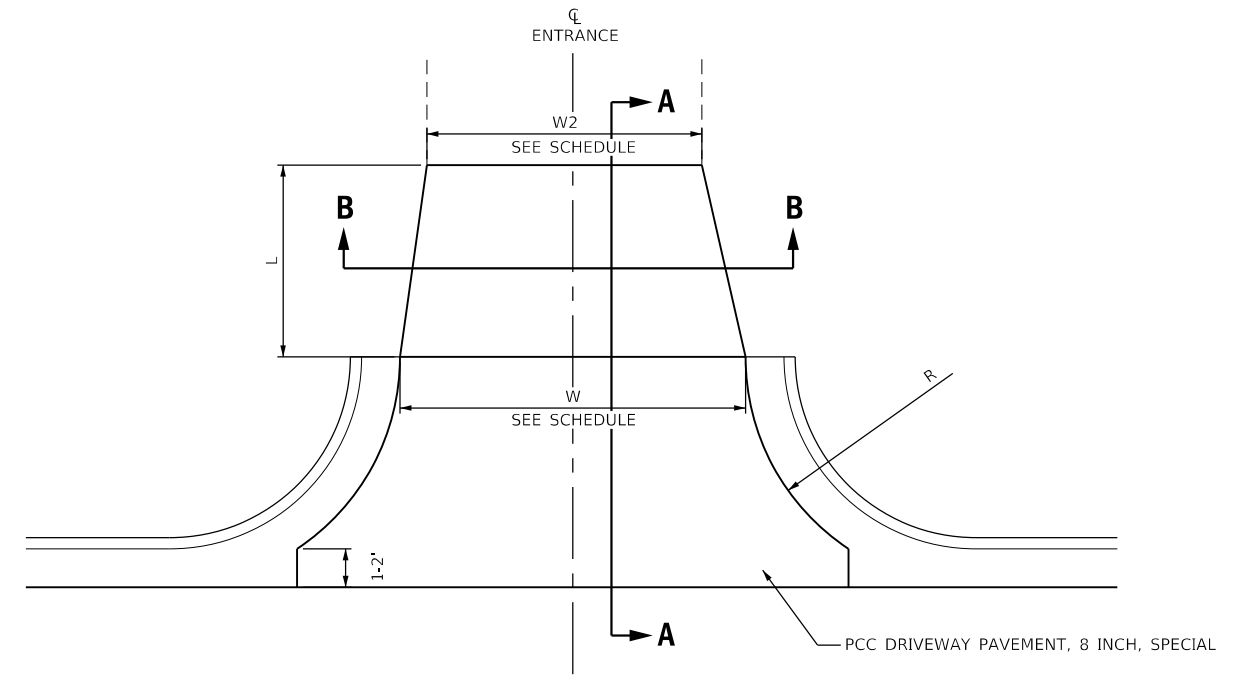
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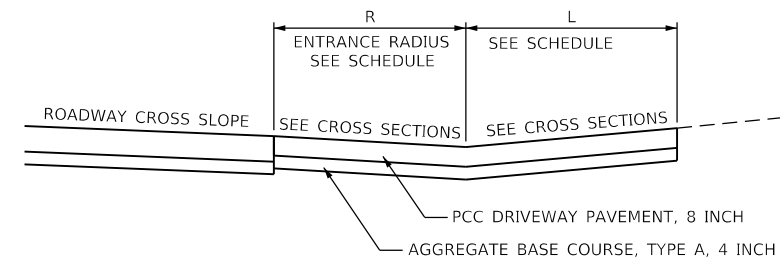
TRAFFIC SIGNAL SOIL BORINGS
IL ROUTE 159 /GLEN CARBON ROAD /COTTONWOOD ROAD

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

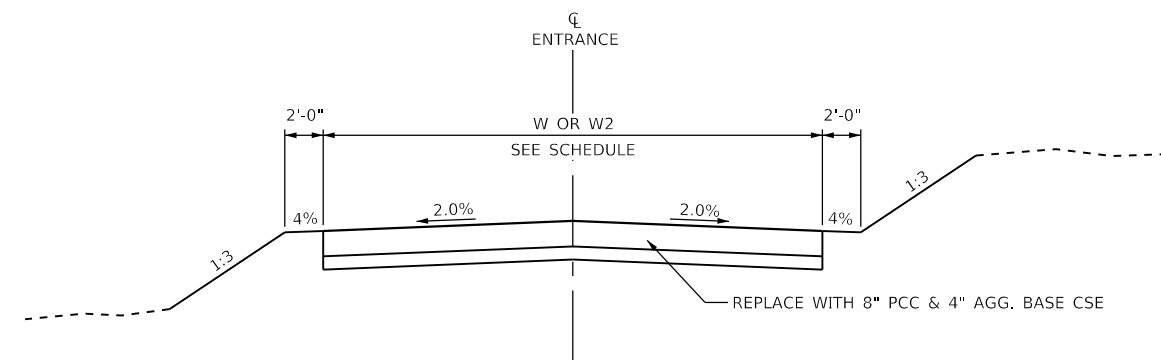
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600	19-00025-01-PW	MADISON	65	42
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



COMMERCIAL ENTRANCE DETAIL



SECTION A-A



SECTION B-B

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TWM, INC.
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 IL DESIGN FIRM
 LICENSE NO: 184-001220
 USER NAME = mschwierjohn
 PLOT SCALE = 10.0000 ' / in.
 PLOT DATE = 8/15/2024

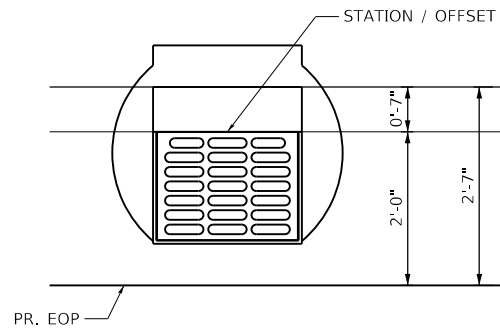
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 DATE - AUG 2022
 REVISED -
 REVISED -
 REVISED -
 REVISED -



**MISCELLANEOUS DETAILS
ENTRANCE DETAILS**

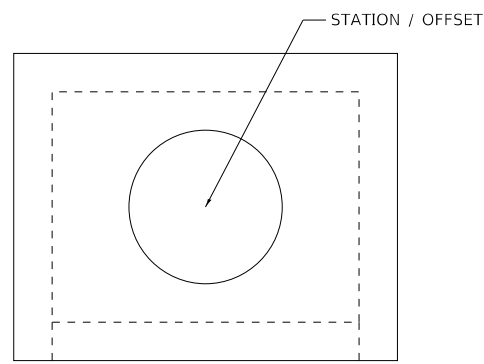
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	43
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				



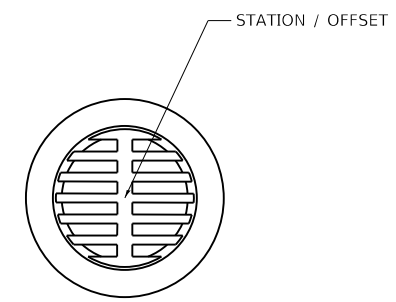
TYPE 3 FRAME AND GRATE

TOS = AT GUTTER FLOW LINE



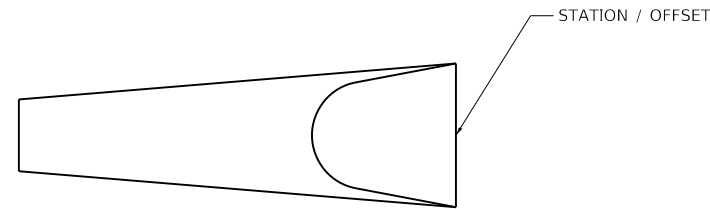
INLETS, SPECIAL NO. 1

TOS = AT CENTER OF LID

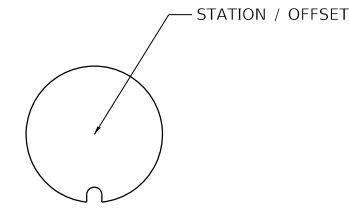


TYPE 8 GRATE

TOS = AT GRATE FLOW LINE



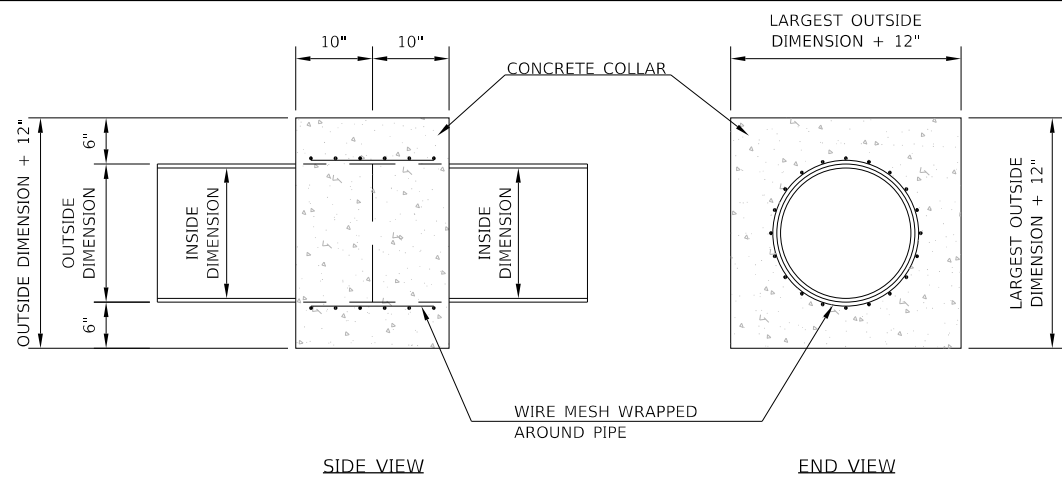
**PRECAST REINFORCED CONCRETE
FLARED END SECTION**



TYPE 1 FRAME CLOSED LID

TOS = AT CENTER OF LID

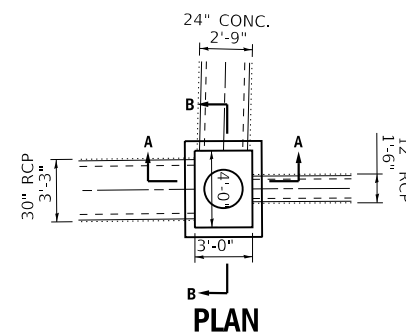
INLET CALLOUTS



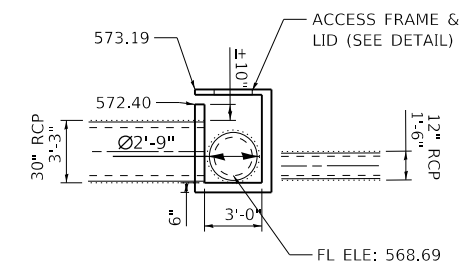
CONCRETE COLLAR PIPE CONNECTION DETAIL

GENERAL NOTES:

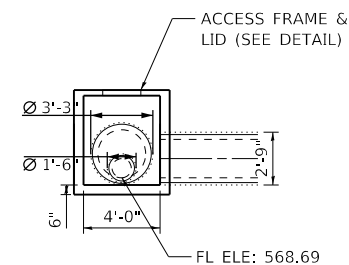
1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIMENSIONS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIMENSION (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NO LESS THAN 54 POUNDS PER 100 SQ. FT.
4. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, CU. YD. FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.



PLAN

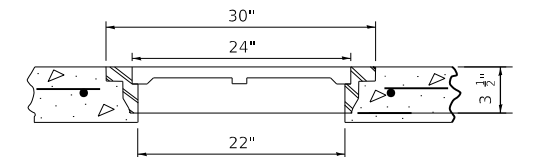


SECTION A-A



SECTION B-B

INLETS, SPECIAL NO. 1



ACCESS FRAME AND LID

NOTES:

1. PROPOSED PIPES SHALL BE CUT FLUSH WITH INSIDE OF STRUCTURE.
2. DIMENSIONS FOR THE PIPES ARE TO THE PROPOSED OPENING WIDTH OR DIAMETER.

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PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



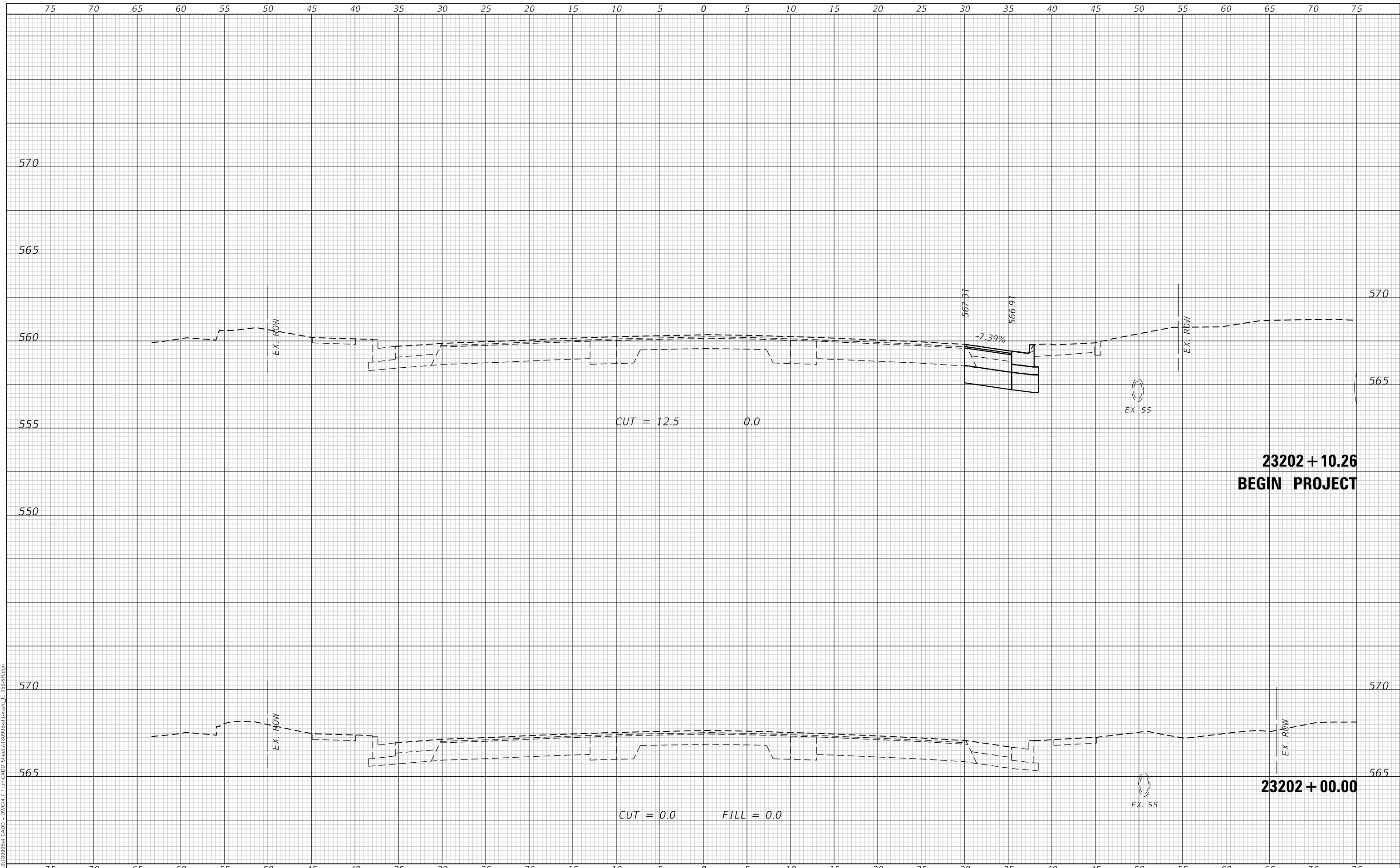
MISCELLANEOUS DETAILS DRAINAGE DETAILS			
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	44
CONTRACT NO. 97793				
ILLINOIS FED. AID PROJECT				

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

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

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IL DESIGN FIRM
 LICENSE NO.:
 184-001220

USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

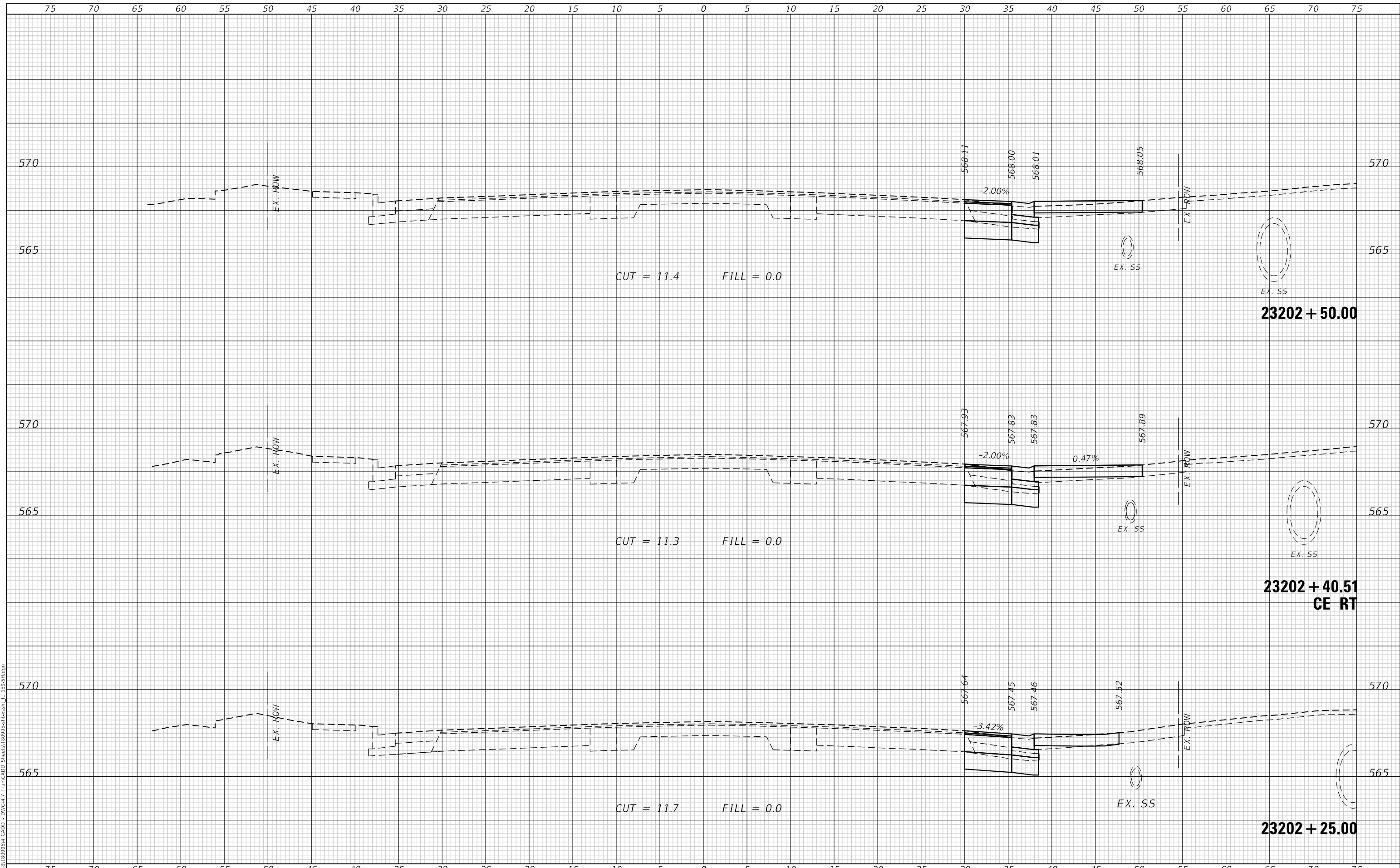
SCALE: 1"=5' SHEET 1 OF 12 SHEETS STA. 23202+00.00 TO STA. 23202+10.26

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	45
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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CUT = 11.4 FILL = 0.0

CUT = 11.3 FILL = 0.0

CUT = 11.7 FILL = 0.0

23202 + 50.00

23202 + 40.51
CE RT

23202 + 25.00



USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
IL ROUTE 159**

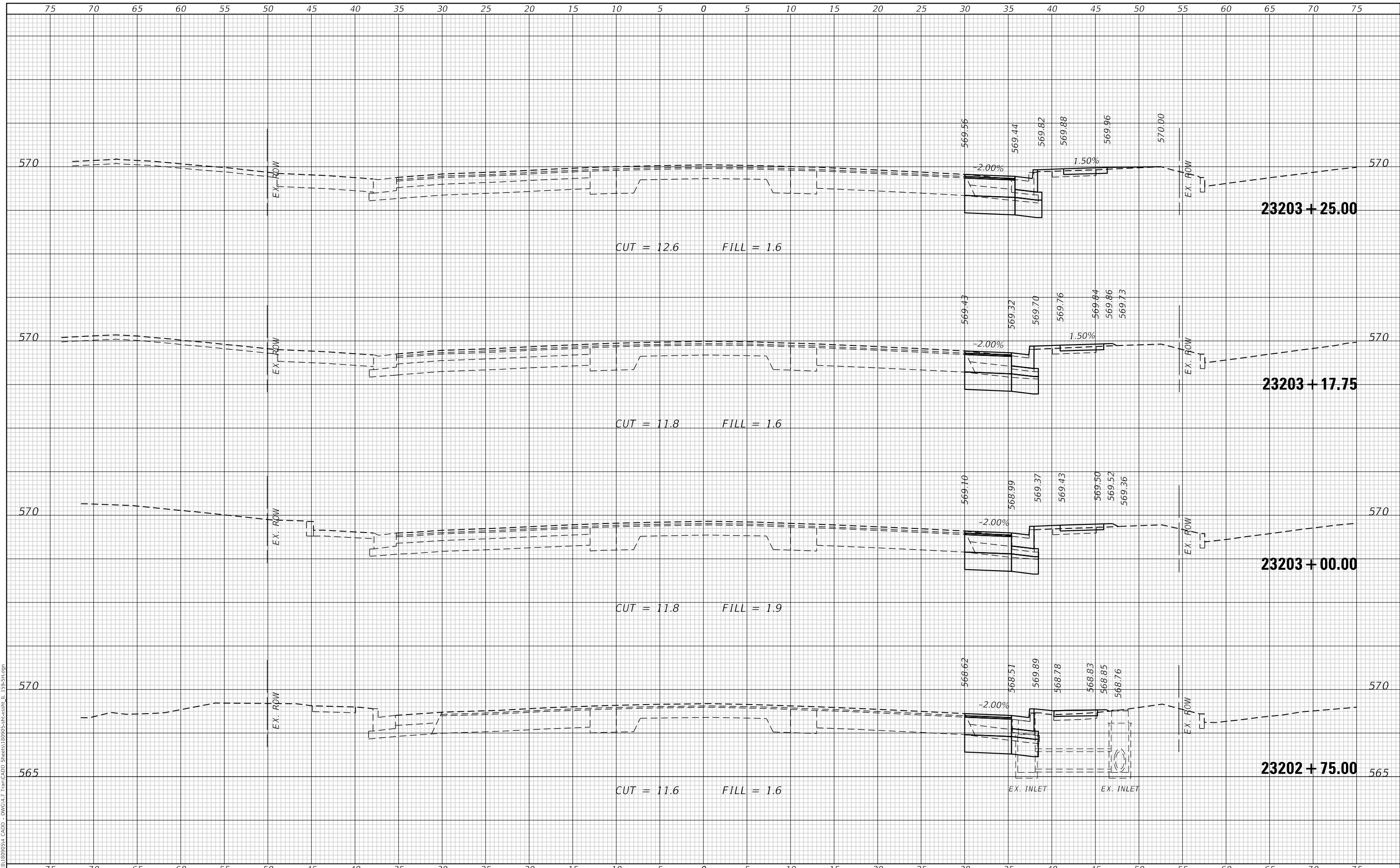
SCALE: 1"=5' SHEET 2 OF 12 SHEETS STA. 23202+25.00 TO STA. 23202+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	46
			CONTRACT NO. 97793	
			ILLINOIS FED. AID PROJECT	

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

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

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 LICENSE NO:
 184-001220

USER NAME =	mschwierjohn	DESIGNED -	MLS	REVISED -	
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PLOT DATE =	8/15/2024	DATE -	AUG 2022	REVISED -	



**CROSS SECTIONS
 IL ROUTE 159**

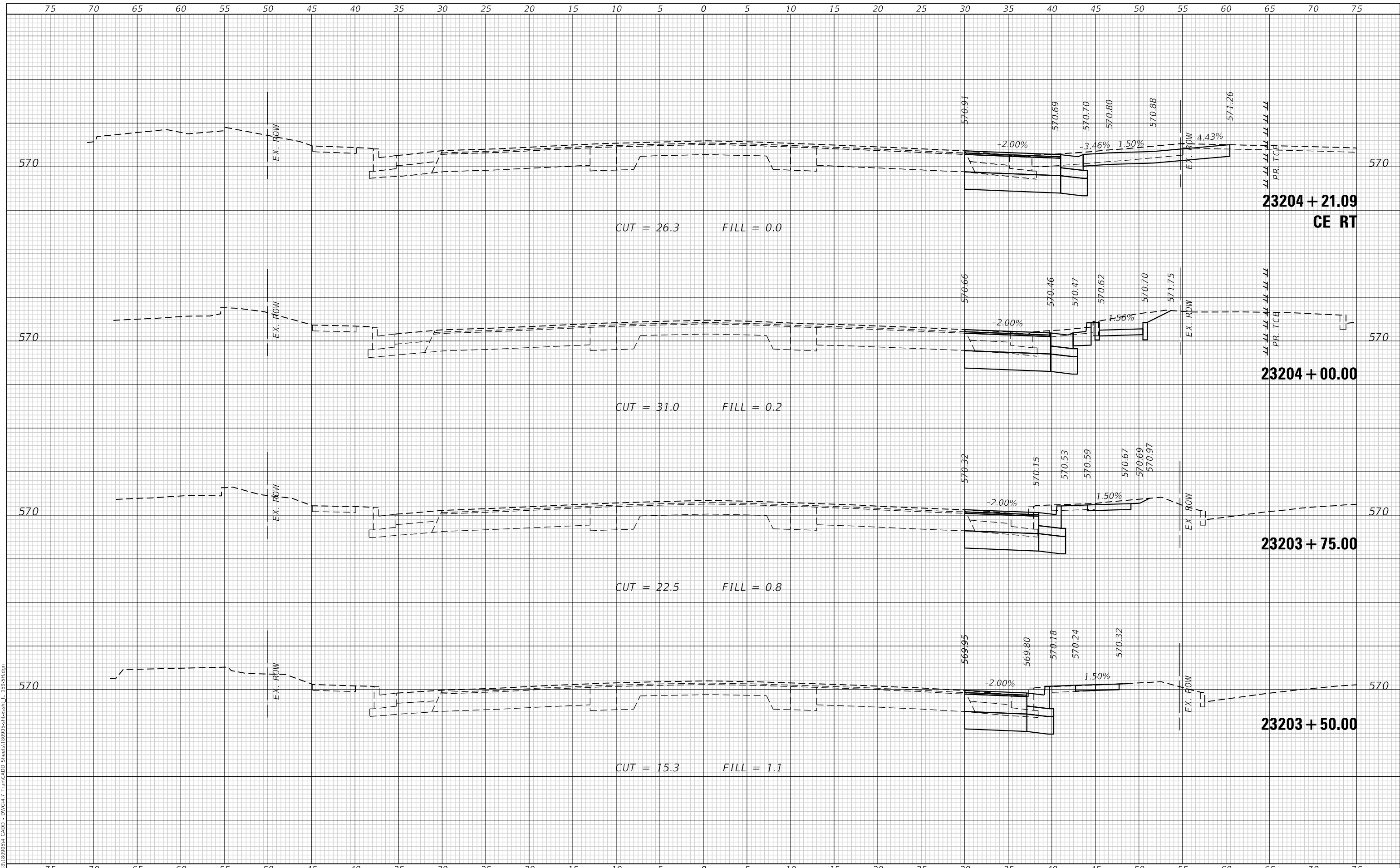
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	47
			CONTRACT NO. 97793	
			ILLINOIS FED. AID PROJECT	

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

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

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

USER NAME	= mschwierjohn	DESIGNED	- MLS	REVISED	-
		DRAWN	- BAB	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- JWS	REVISED	-
PLOT DATE	= 8/15/2024	DATE	- AUG 2022	REVISED	-



**CROSS SECTIONS
 IL ROUTE 159**

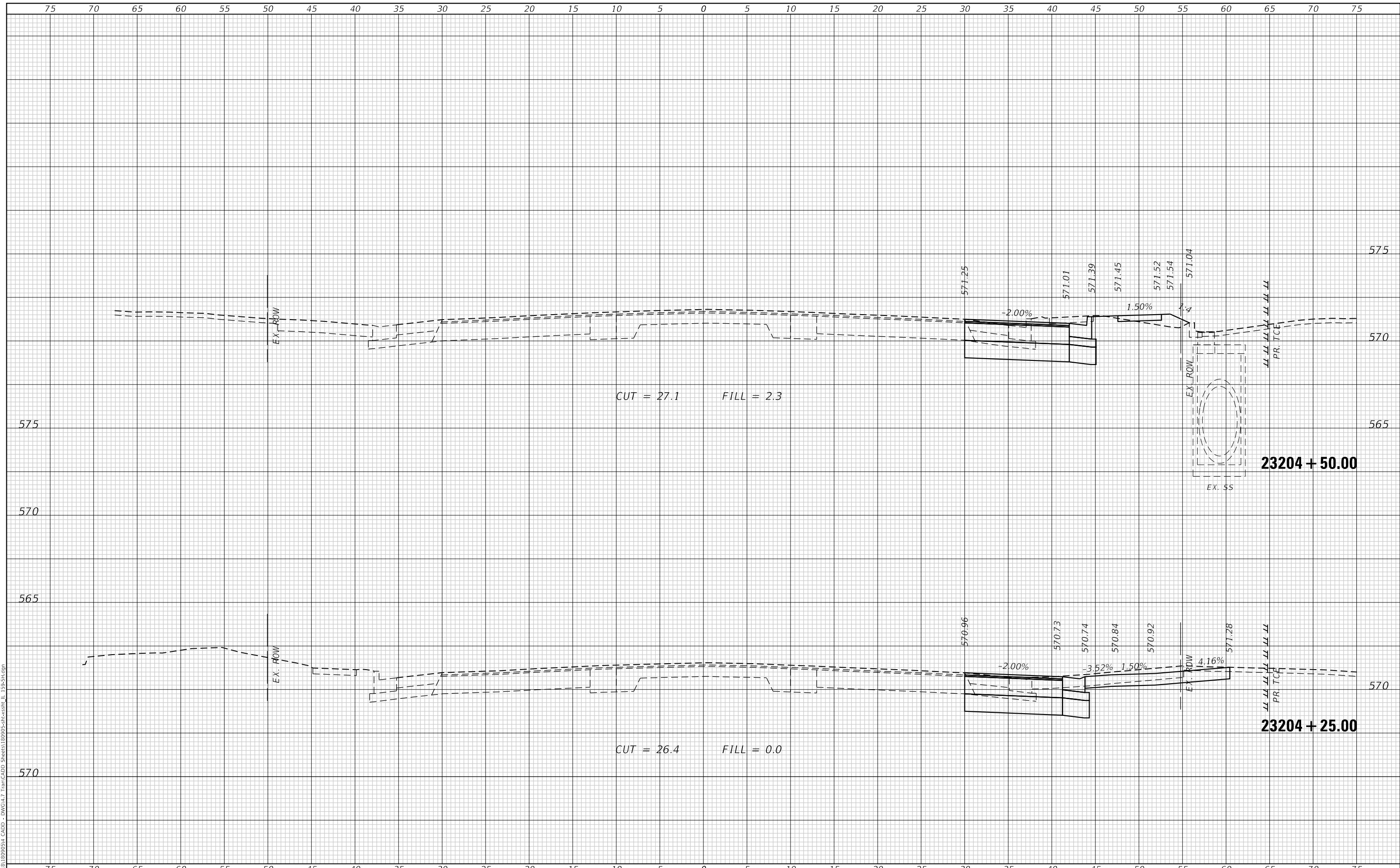
SCALE: 1"=5' SHEET 4 OF 12 SHEETS STA. 23203+50.00 TO STA. 23204+21.09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	48
			CONTRACT NO. 97793	
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair
 FILE NAME: P23019.190905.dwg
 CADD - DWG-H-7 Tran-CADD_Sheets\190905-dwg.dwg



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

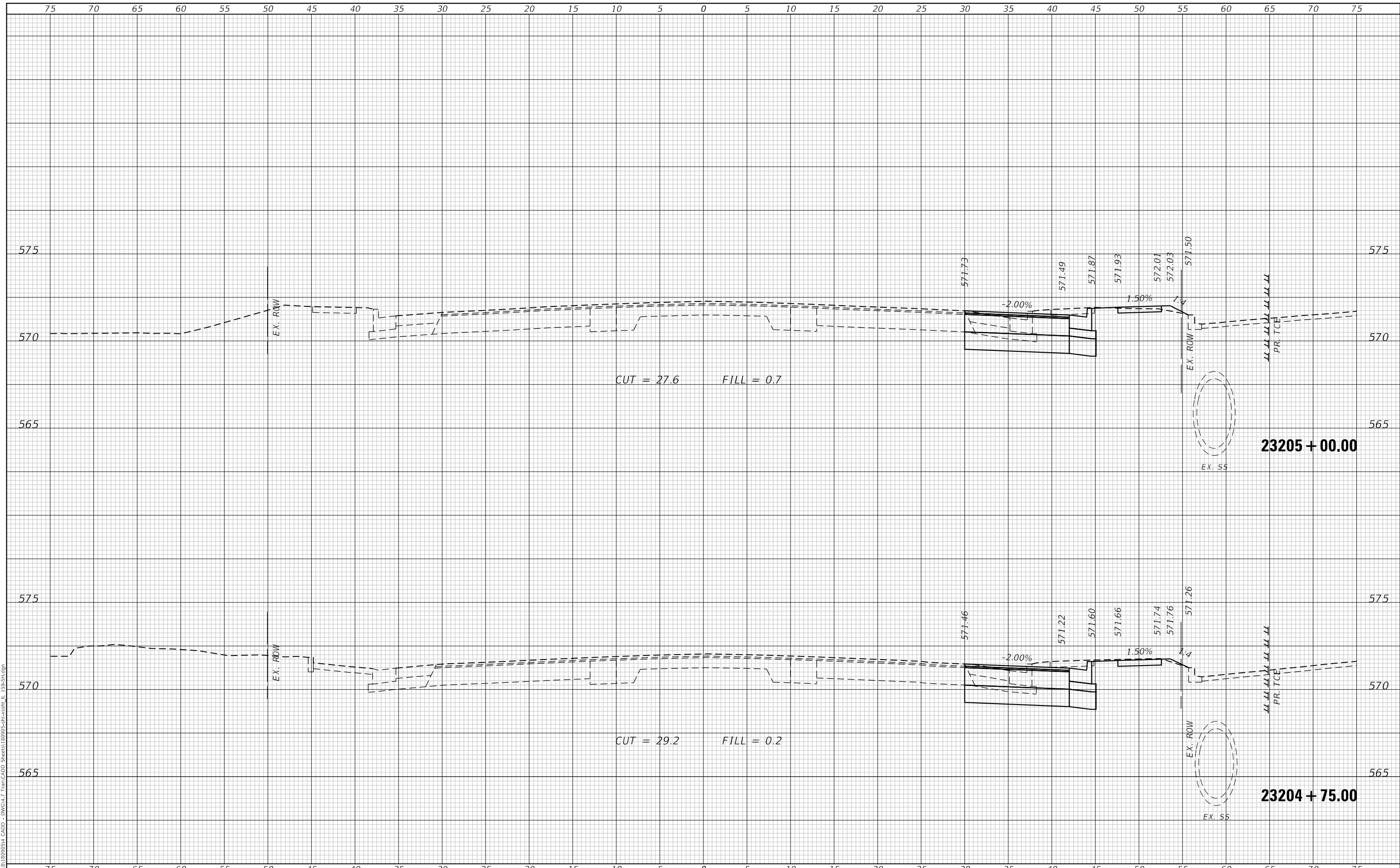
SCALE: 1"=5' SHEET 5 OF 12 SHEETS STA. 23204+25.00 TO STA. 23204+50.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 49
			CONTRACT NO. 97793	
		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	

MODEL: Defnair
 FILE NAME: P:\2024\19-00025\CADD - DWG\4-7 Tran\CADD_Sheets\19-00025-SS-11_19-24.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

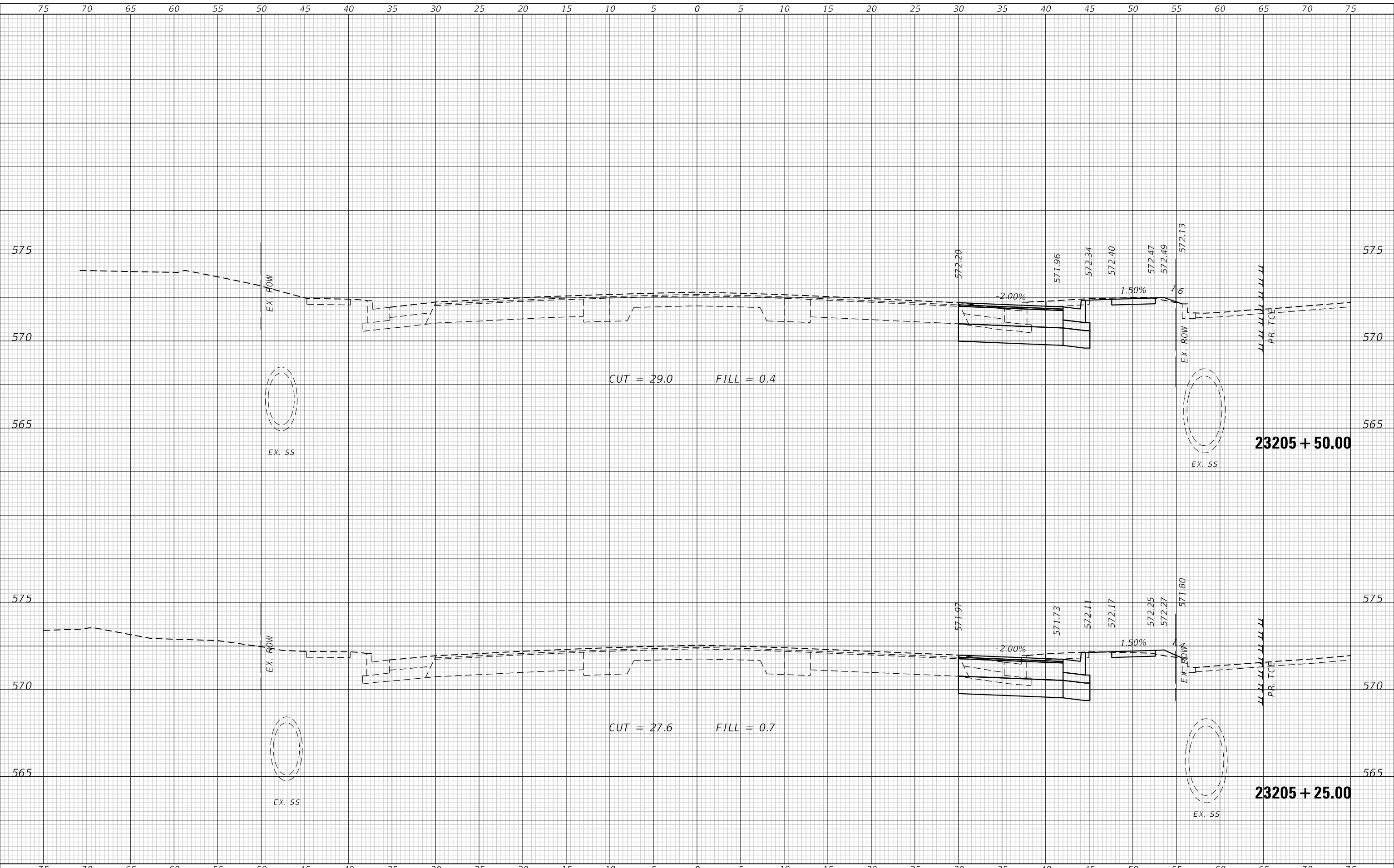
SCALE: 1"=5' SHEET 6 OF 12 SHEETS STA. 23204+75.00 TO STA. 23205+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	50
CONTRACT NO. 97793			ILLINOIS FED. AID PROJECT	

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

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

MODEL: Defnair
 FILE NAME: P:\2024\19-00025\CADD - DWG\4-7 Tran\CADD_Sheets\19-00025-01-PW_IL_19-51.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

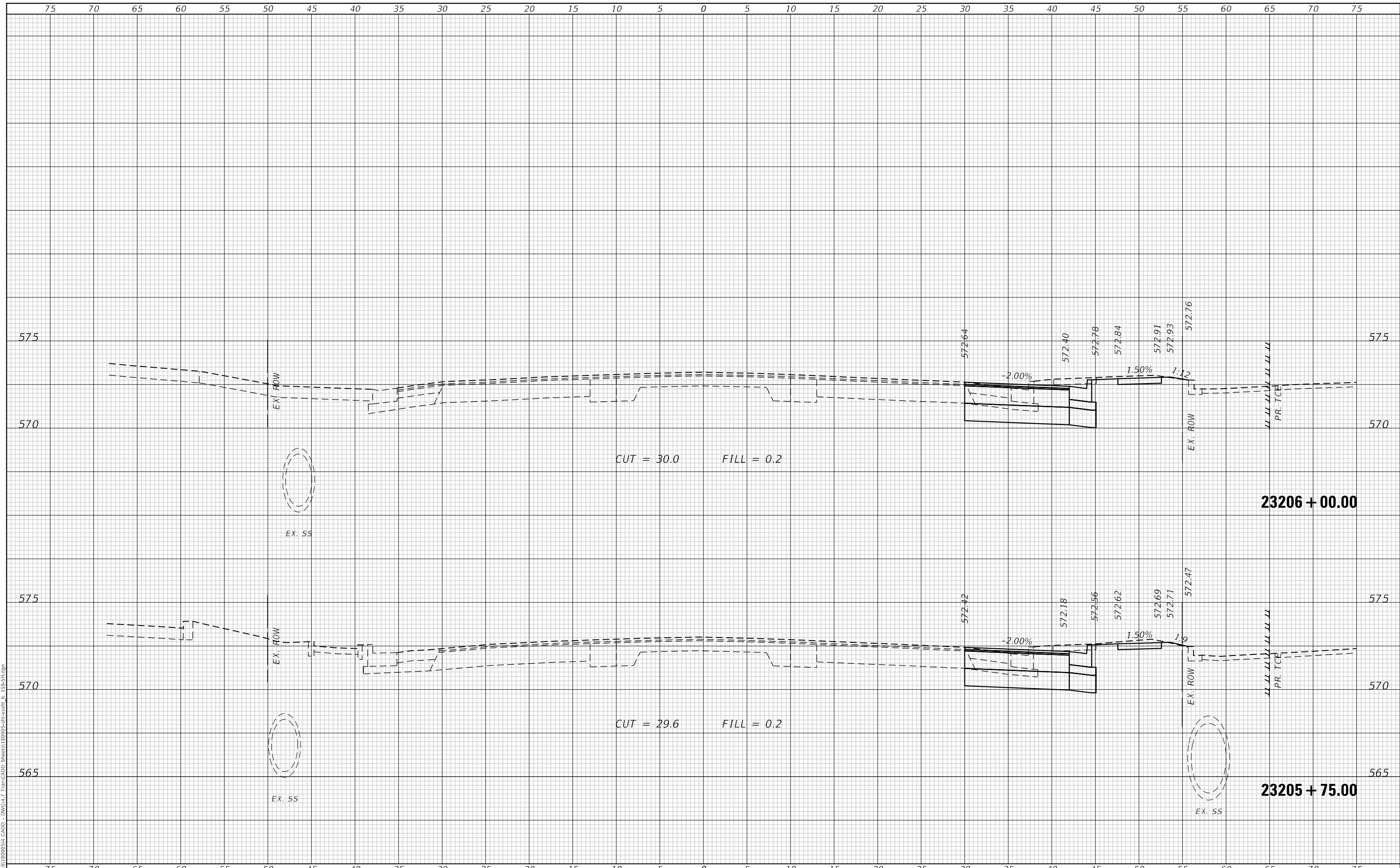
SCALE: 1"=5' SHEET 7 OF 12 SHEETS STA. 23205+25.00 TO STA. 23205+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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	

MODEL: Defnair
 FILE NAME: P:\2024\19-00025\CADD - DWG-H-7 Tran\CADD_Sheets\19-00025-PC-SS01_19-5H.dgn



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 LICENSE NO.:
 184-001220

USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

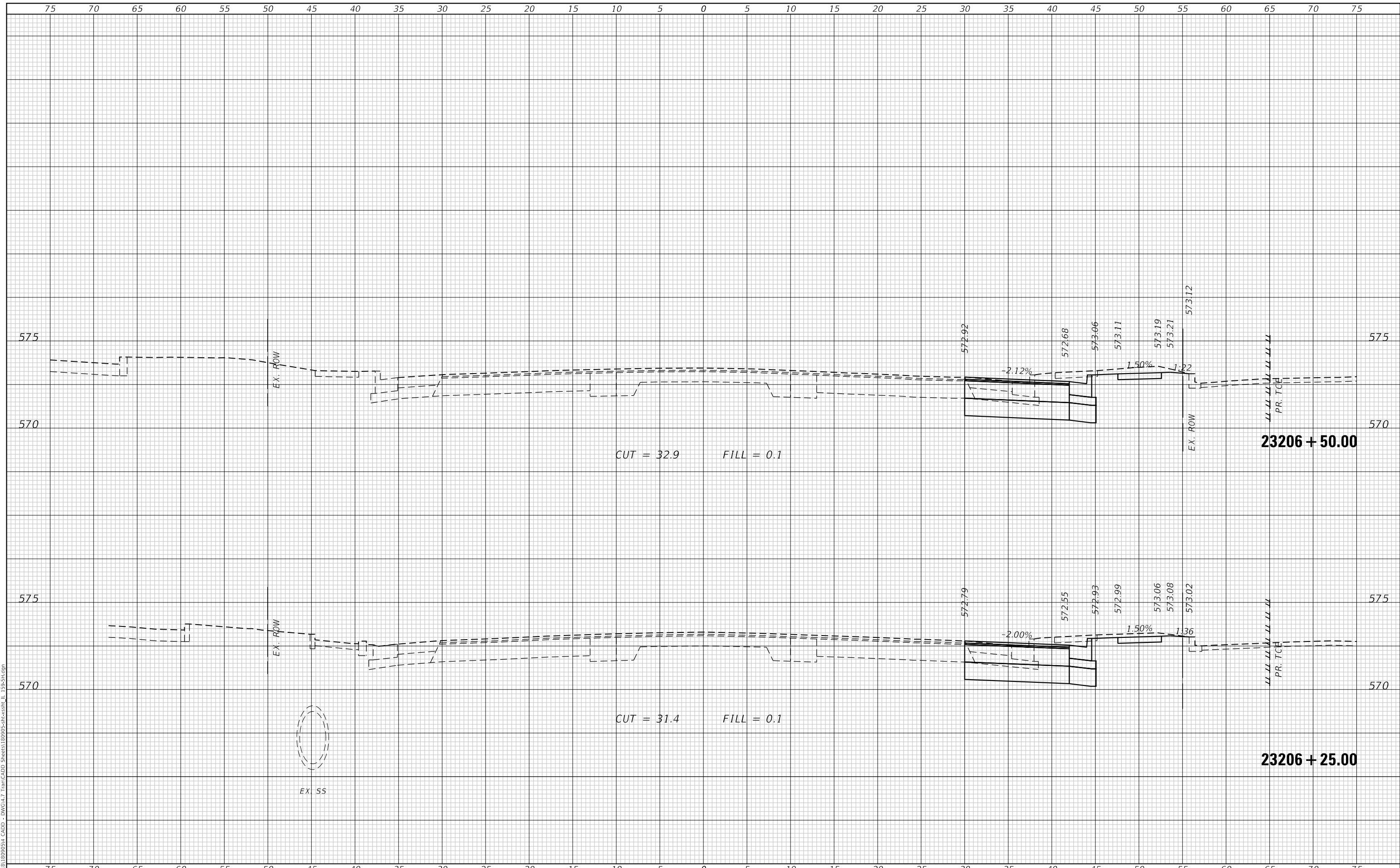
SCALE: 1"=5' SHEET 8 OF 12 SHEETS STA. 23205+75.00 TO STA. 23206+00.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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

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

MODEL: Defnair
 FILE NAME: P:\2024\19-00025\CADD - DWG\4-7 Tran\CADD Streets\80995-Str-Crossn_L_19-5h.dgn



USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

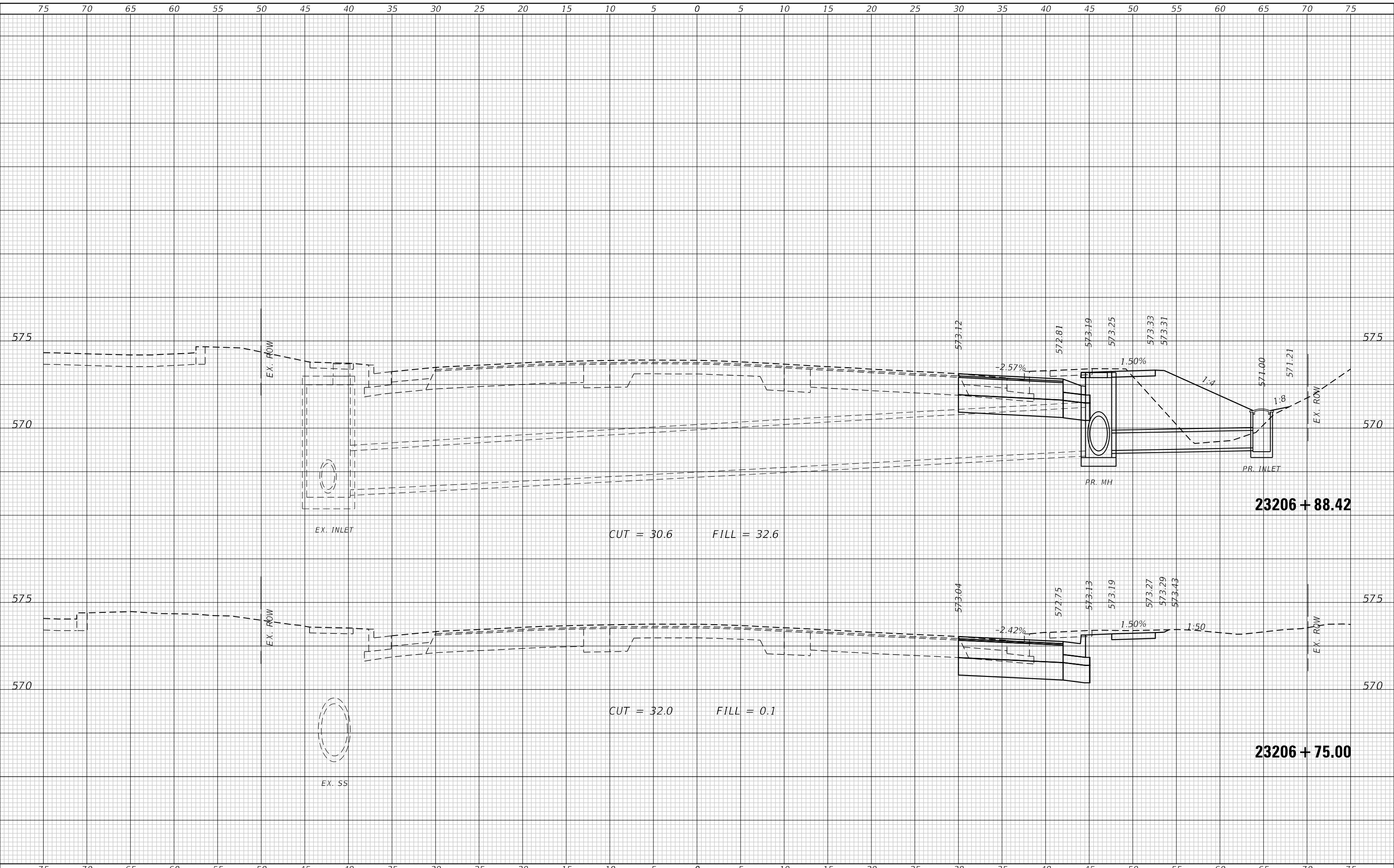
SCALE: 1"=5' SHEET 9 OF 12 SHEETS STA. 23206+25.00 TO STA. 23206+50.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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

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

MODEL: Defnair
 FILE NAME: P:\2024\19-00025\CADD - DWG\4.7 Tran\CADD Sheets\19-00025-PC-SS01_11_19-5h.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

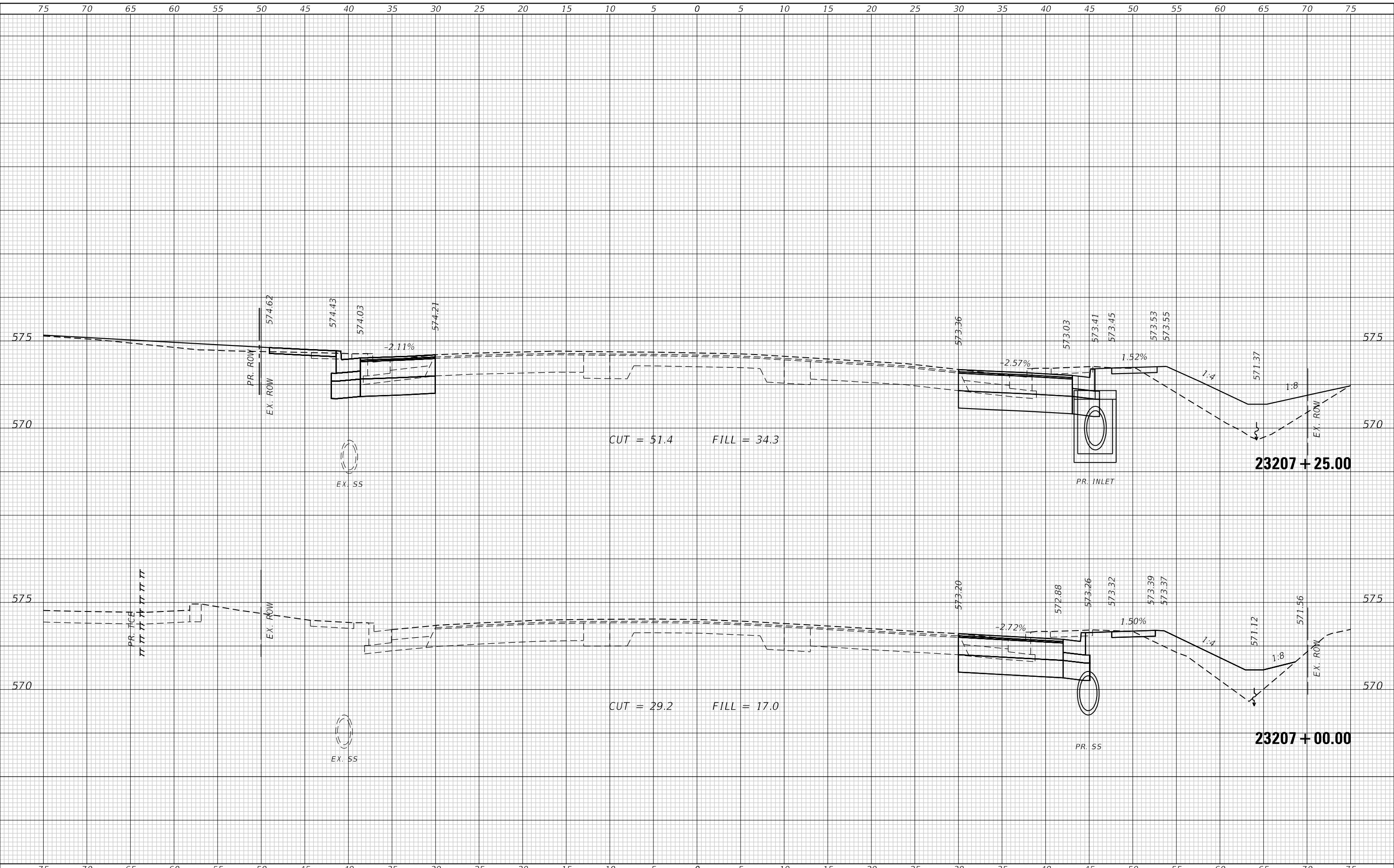
SCALE: 1"=5' SHEET 10 OF 12 SHEETS STA. 23206+75.00 TO STA. 23206+88.42

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 54
CONTRACT NO. 97793			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	

MODEL: Defnair
 FILE NAME: P:\2019\19-00025\CADD - DWG\11.7 Tran\CADD Streets\19-00025-01-PW_IL_19-5h.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

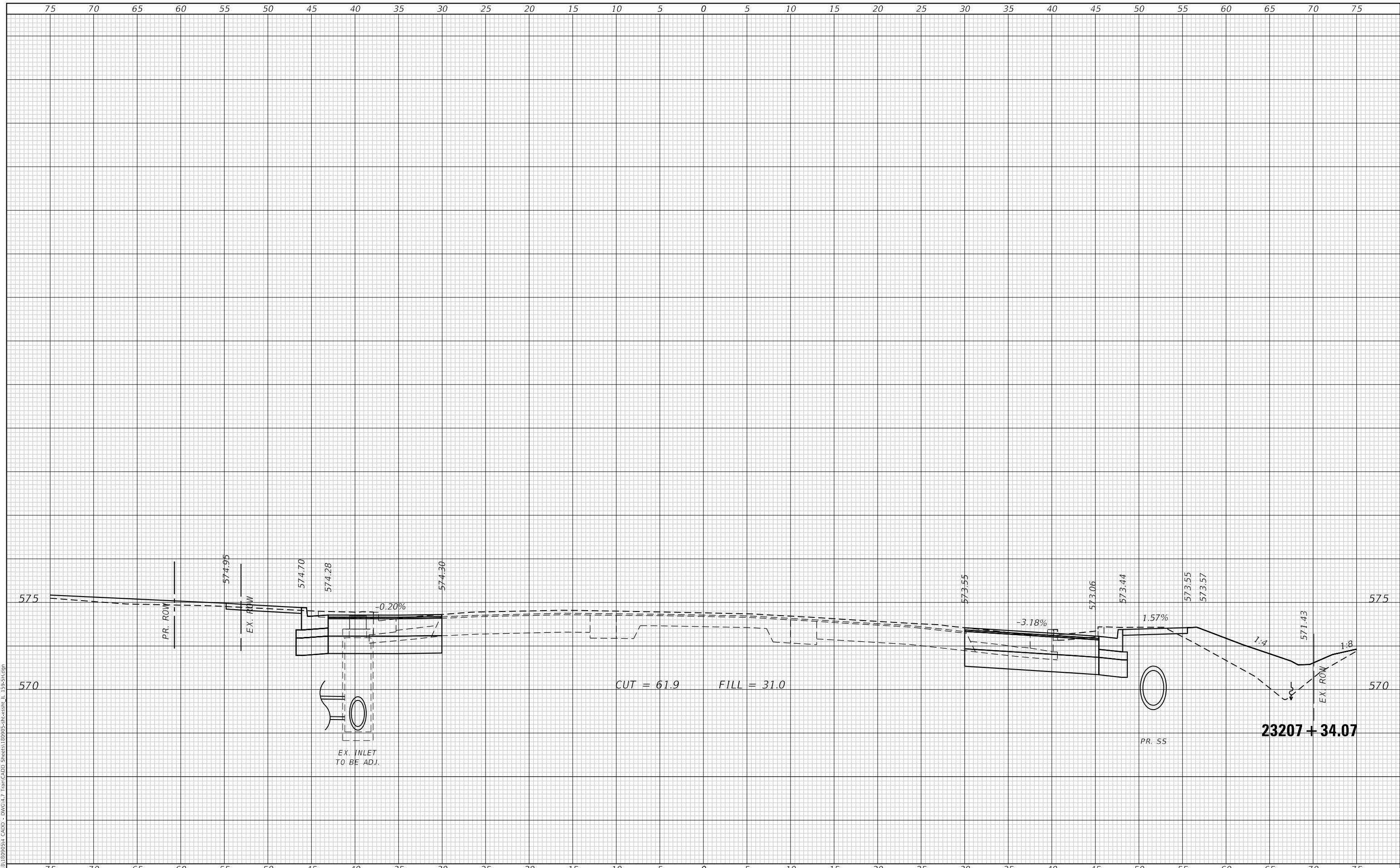
SCALE: 1"=5' SHEET 11 OF 12 SHEETS STA. 23207+00.00 TO STA. 23207+25.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 55
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defnair
 FILE NAME: P:\2019\19-0005\1 CAD\DWG\17 Tran\CADD Streets\19-0005-Str-Crossn_IL_19-Str.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 IL ROUTE 159**

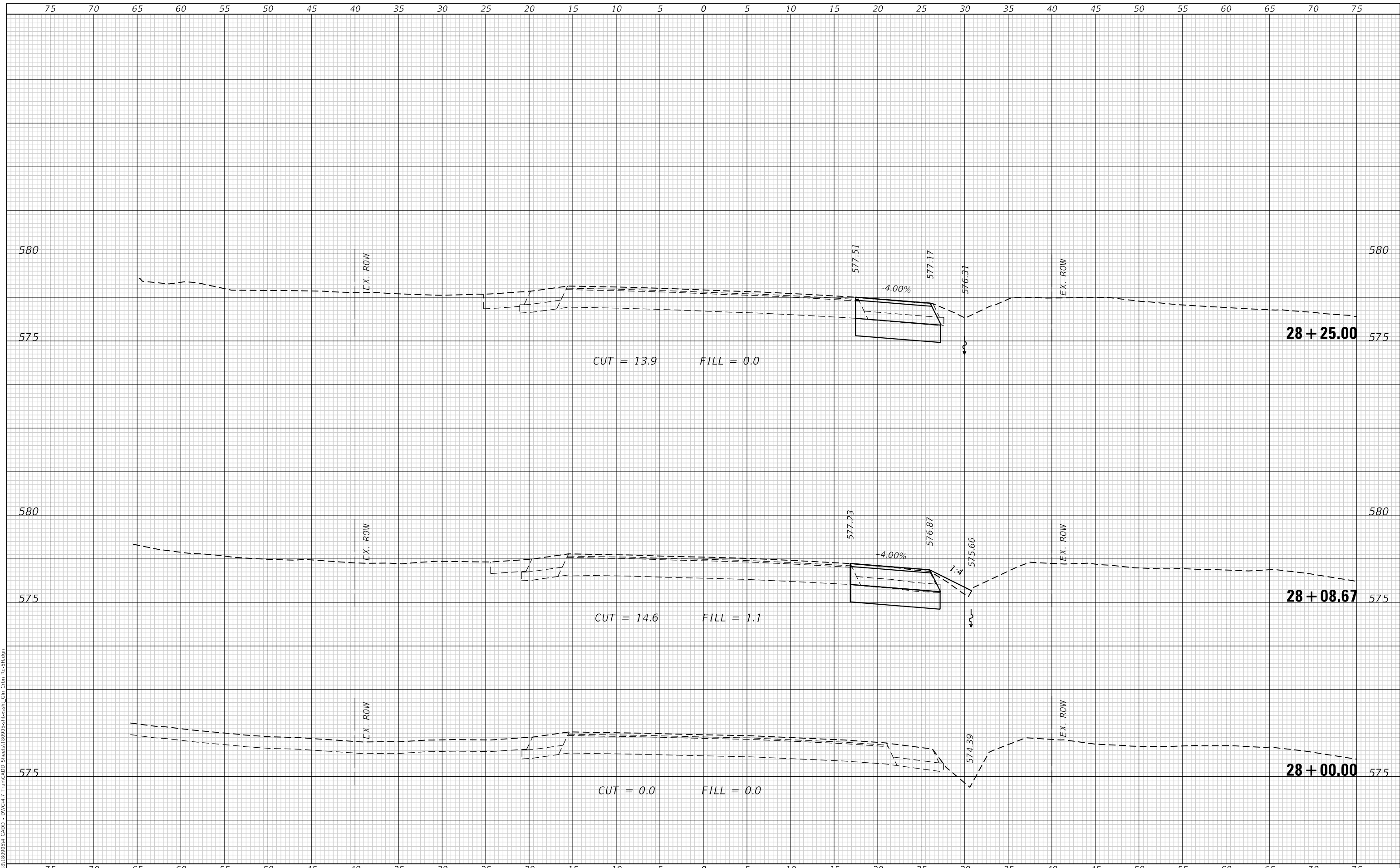
SCALE: 1"=5' SHEET 12 OF 12 SHEETS STA. 23207+34.07 TO STA. 23207+34.07

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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

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

MODEL: Defnair
FILE NAME: P:\2019\190905\190905\190905\190905\190905\CADD - DWG-1-7 Tran\CADD - Sheets\190905-190905.dwg C:\m Rch\314.dgn



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LICENSE NO:
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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
E GLEN CARBON ROAD**

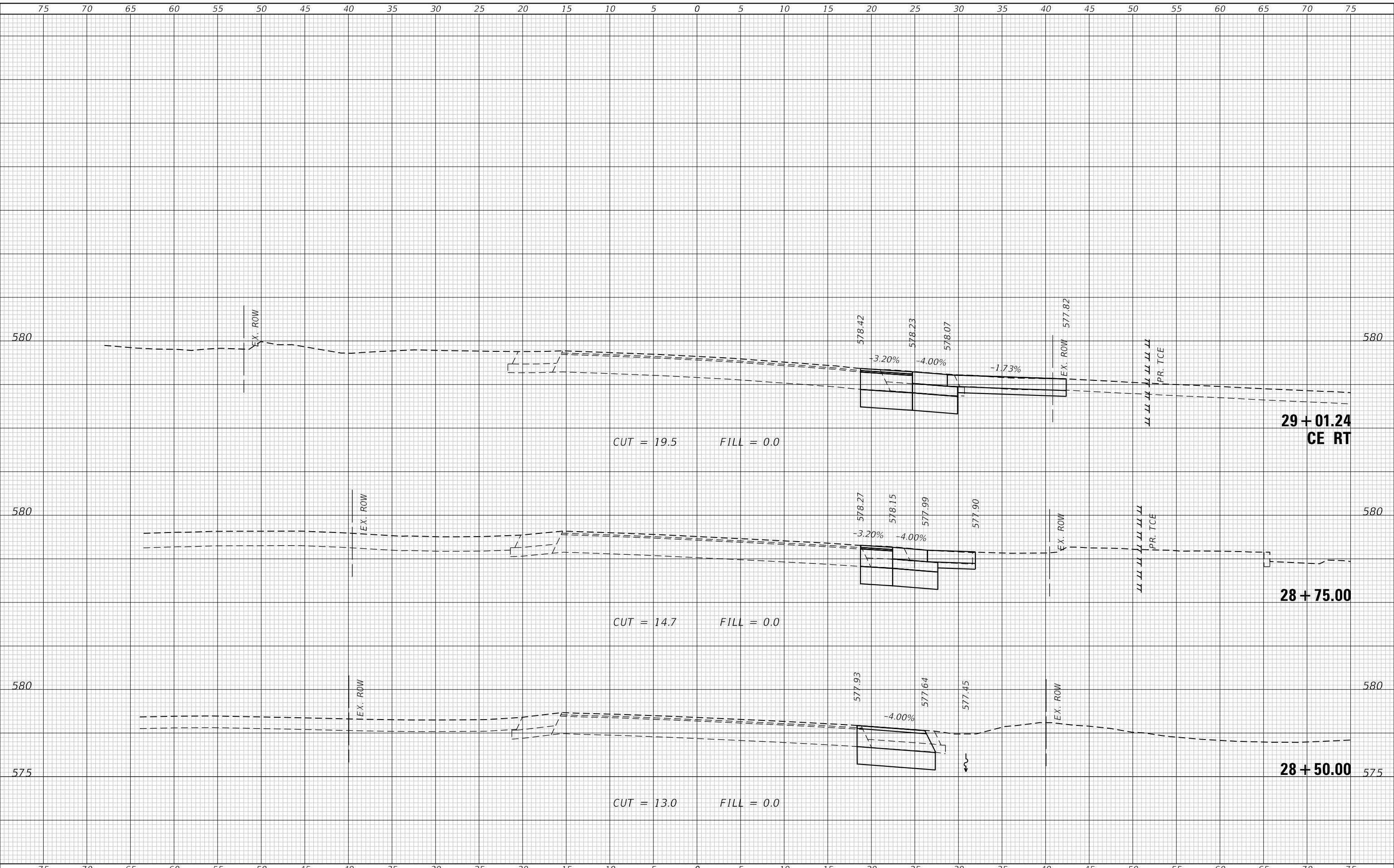
SCALE: 1"=5' SHEET 1 OF 6 SHEETS STA. 28+00.00 TO STA. 28+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	57
				CONTRACT NO. 97793
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defnair
 FILE NAME: P:\2019\190905\4 CAD - DWG\4-7 Tran\CADD_Sheets\190905-ctr-ssn.dwg Crn Rcs-3h.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 E GLEN CARBON ROAD**

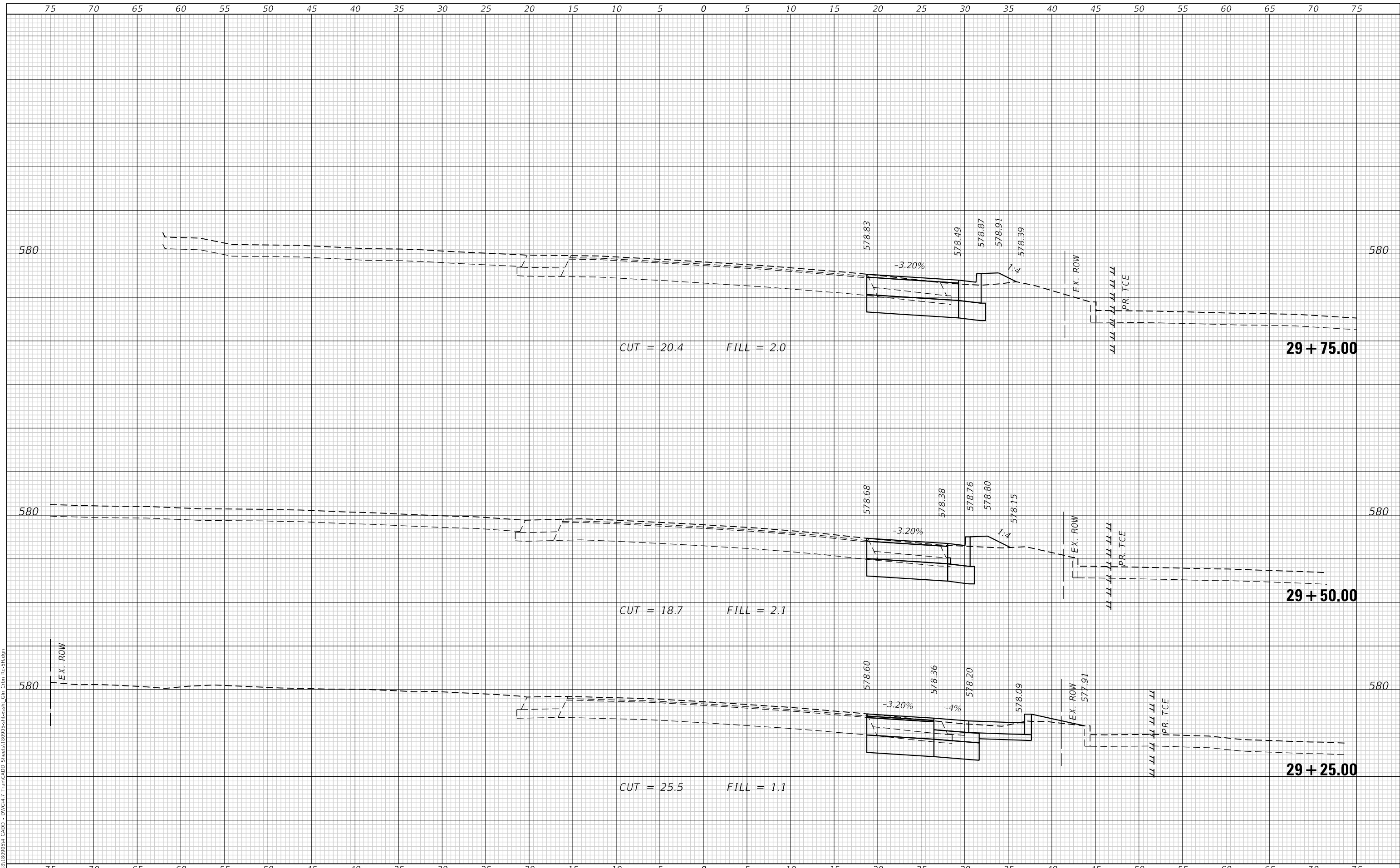
SCALE: 1"=5' SHEET 2 OF 6 SHEETS STA. 28+50.00 TO STA. 29+01.24

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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

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

MODEL: Defnair
 FILE NAME: P:\2019\190905\190905.dwg - DWG - J Trans CAD - Streets\190905-190905.dgn Crm Rcs-314.dgn



USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -

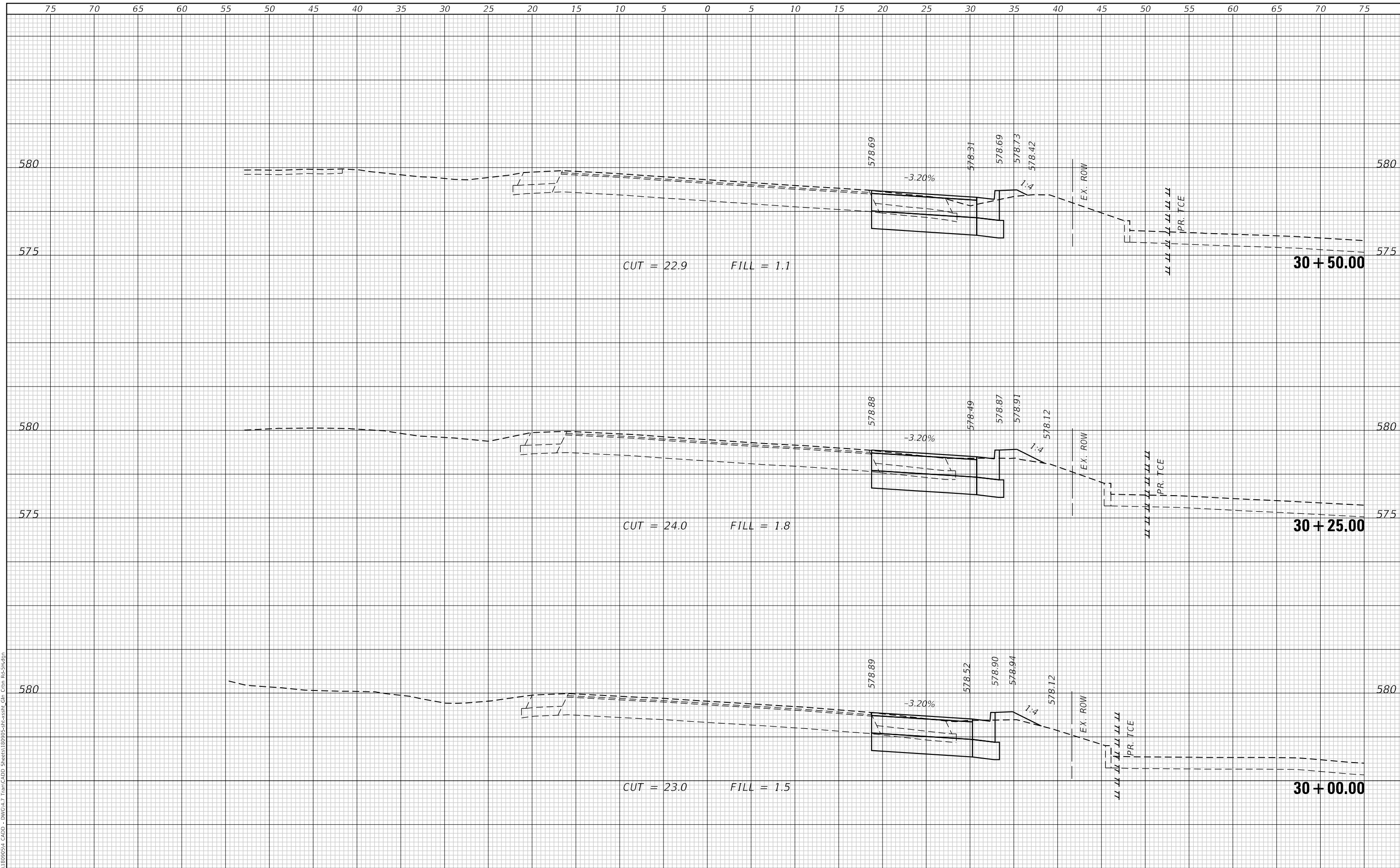


**CROSS SECTIONS
 E GLEN CARBON ROAD**
 SCALE: 1"=5' SHEET 3 OF 6 SHEETS STA. 29+25.00 TO STA. 29+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	59
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				

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

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



MODEL: Defnair
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USER NAME	= mschwierjohn	DESIGNED	- MLS	REVISED	-
		DRAWN	- BAB	REVISED	-
PLOT SCALE	= 10.0000 ' / in.	CHECKED	- JWS	REVISED	-
PLOT DATE	= 8/15/2024	DATE	- AUG 2022	REVISED	-

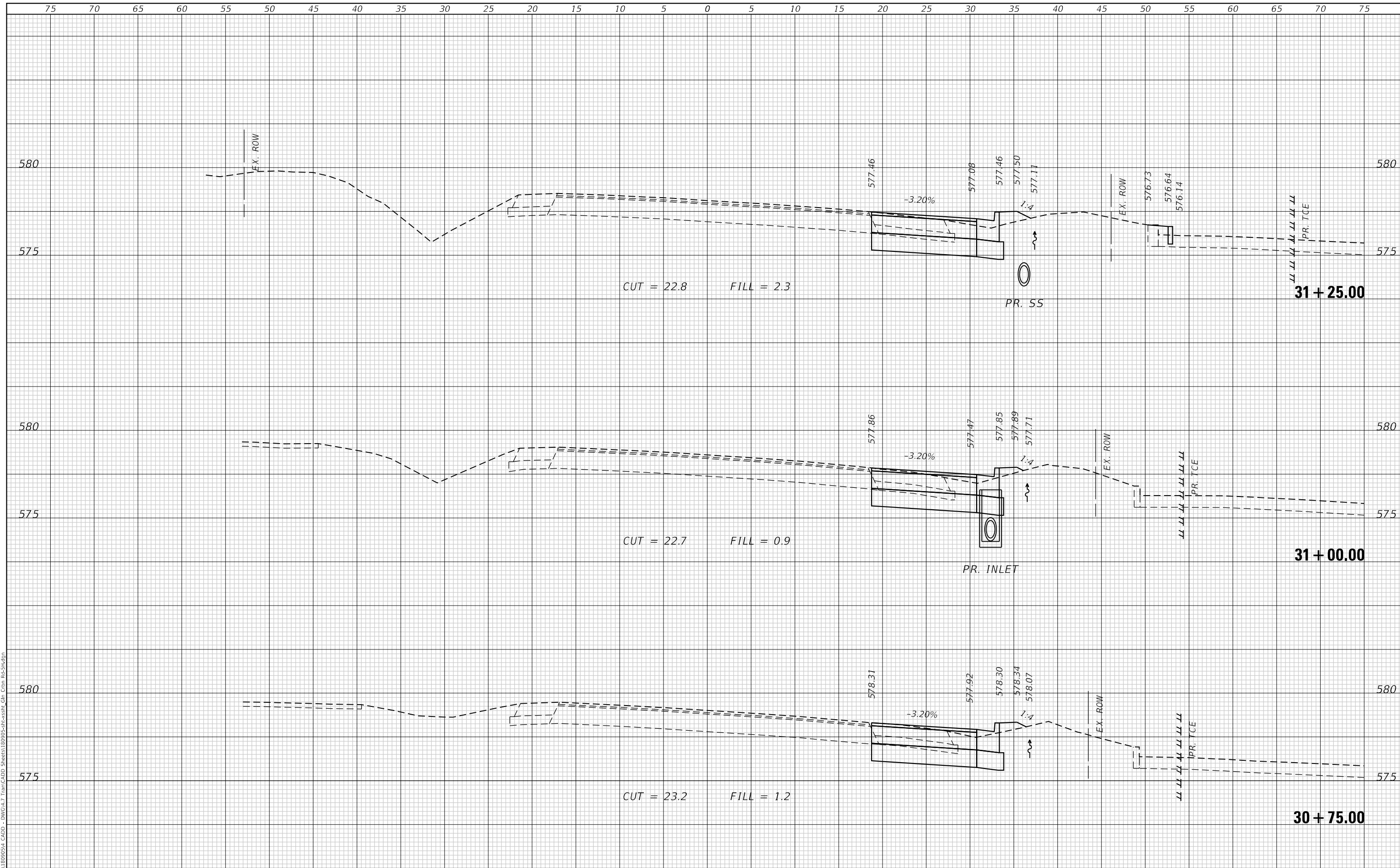


**CROSS SECTIONS
 E GLEN CARBON ROAD**
 SCALE: 1"=5' SHEET 4 OF 6 SHEETS STA. 30+00.00 TO STA. 30+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	60
			CONTRACT NO. 97793	
		ILLINOIS FED. AID PROJECT		

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

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



MODEL: Defnair
 FILE NAME: P:\2019\190905\4 CAD - DWG\4.7 Tran\CADD Streets\190905-rc-ssn.dwg
 User: mschwierjohn

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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 8/15/2024	CHECKED - JWS	REVISED -
	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 E GLEN CARBON ROAD**

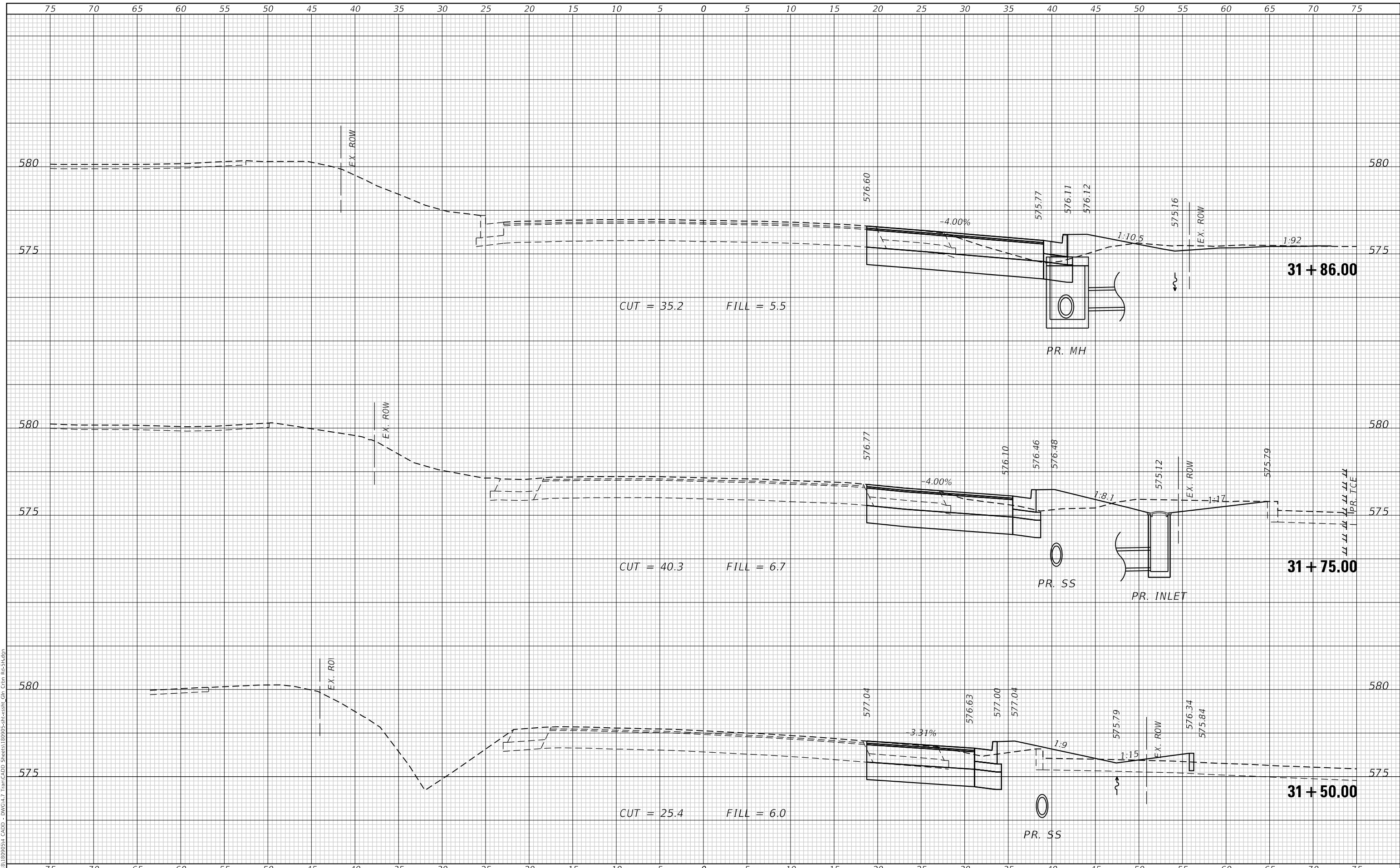
SCALE: 1"=5' SHEET 5 OF 6 SHEETS STA. 30+75.00 TO STA. 31+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	61
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defnair
 FILE NAME: P:\2022\19-00025\CADD - DWG\4-7 Tran\CADD_Sheets\19-00025-01-PW_Cin_Rc-31.dgn



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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 E GLEN CARBON ROAD**

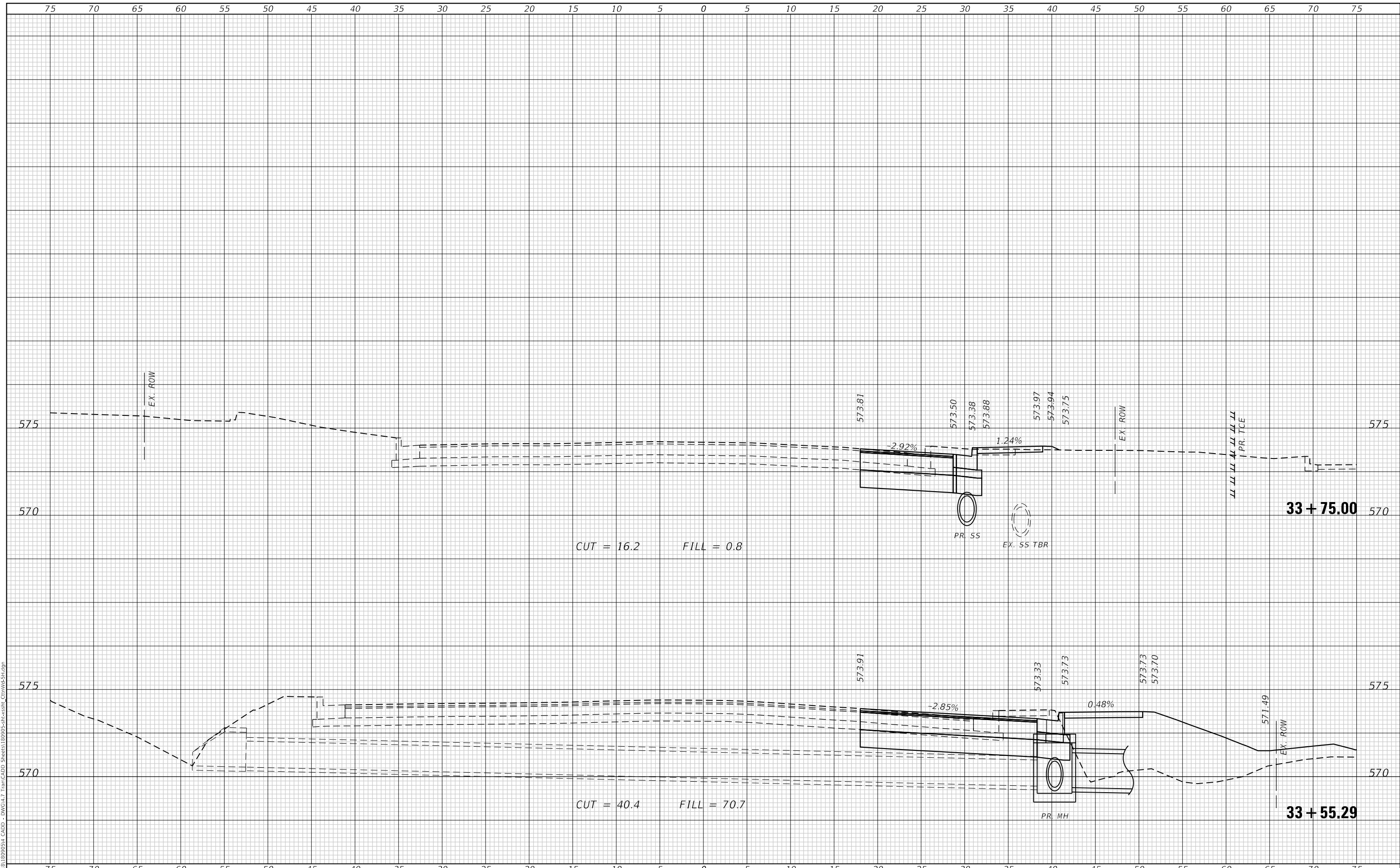
SCALE: 1"=5' SHEET 6 OF 6 SHEETS STA. 31+50.00 TO STA. 31+86.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 62
			CONTRACT NO. 97793	
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	

MODEL: Defnair
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CUT = 16.2 FILL = 0.8

CUT = 40.4 FILL = 70.7



USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



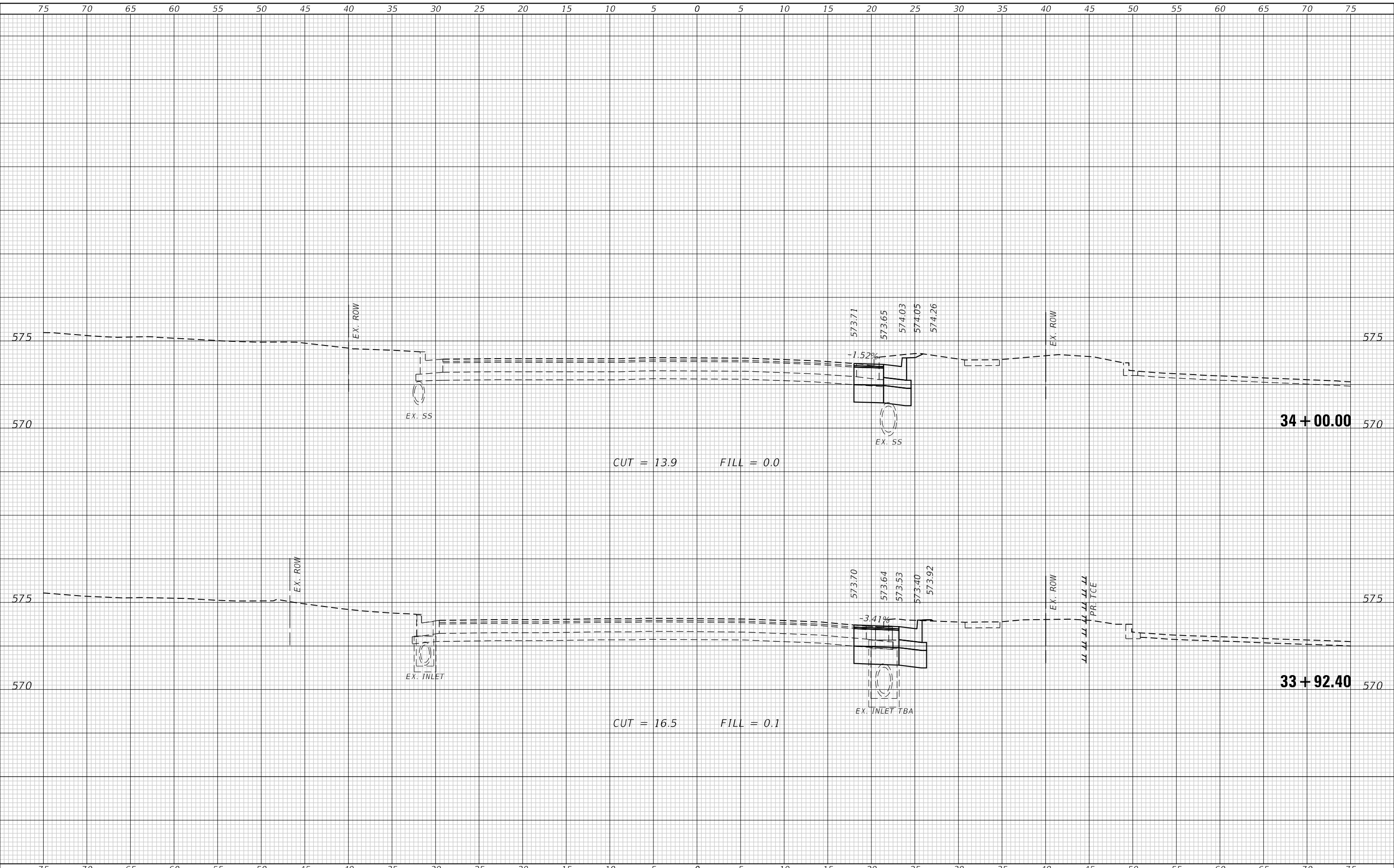
**CROSS SECTIONS
 E COTTONWOOD ROAD**
 SCALE: 1"=5' SHEET 1 OF 3 SHEETS STA. 33+55.29 TO STA. 33+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	63
			CONTRACT NO. 97793	
		ILLINOIS FED. AID PROJECT		

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

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

MODEL: Defnair
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USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 E COTTONWOOD ROAD**

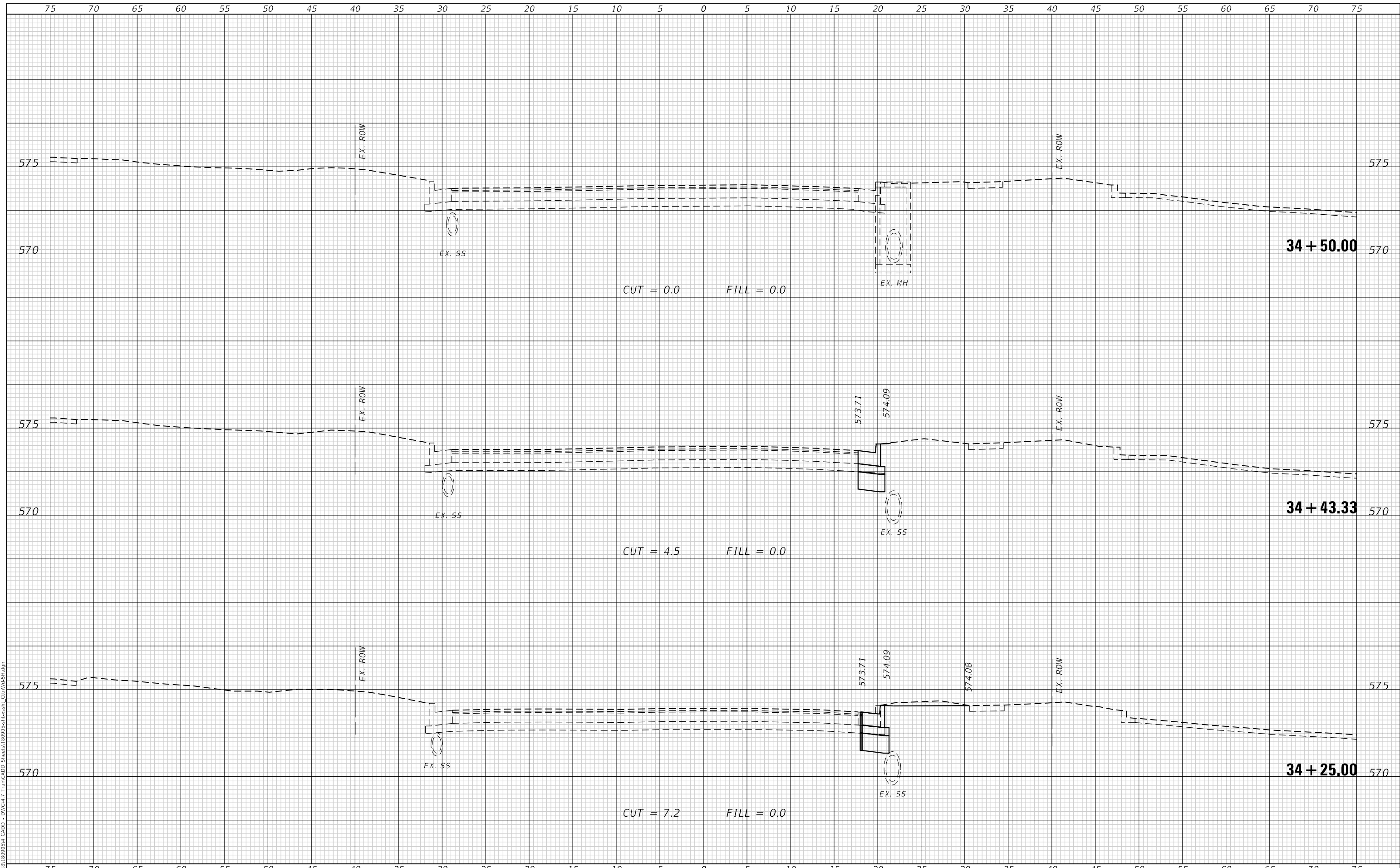
SCALE: 1"=5' SHEET 2 OF 3 SHEETS STA. 33+92.40 TO STA. 34+00.00

F.A.P. RTE. 600	SECTION 19-00025-01-PW	COUNTY MADISON	TOTAL SHEETS 65	SHEET NO. 64
ILLINOIS FED. AID PROJECT			CONTRACT NO. 97793	

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

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

MODEL: Defnair
 FILE NAME: P:\2019\190905\4_CADD - DWG\4-7 Tran\CADD_Sheets\190905-Str-SS01_CrossWS-Str.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

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

USER NAME = mschwierjohn	DESIGNED - MLS	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JWS	REVISED -
PLOT DATE = 8/15/2024	DATE - AUG 2022	REVISED -



**CROSS SECTIONS
 E COTTONWOOD ROAD**

SCALE: 1"=5' SHEET 3 OF 3 SHEETS STA. 34+25.00 TO STA. 34+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	19-00025-01-PW	MADISON	65	65
			CONTRACT NO. 97793	
ILLINOIS FED. AID PROJECT				