06/17/2022 LETTING ITEM 202

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	1
	ILLINOIS	CONTRACT NO. 99632		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS TRANSPORTATION ENHANCEMENT PROGRAM

PROPOSED PLANS

NORTHWEST PEDESTRIAN AND BICYCLE PATH
CITY OF CARBONDALE
SECTION 17-00136-00-BT
PROJECT VI1N(801)
JACKSON COUNTY
C-99-023-18

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
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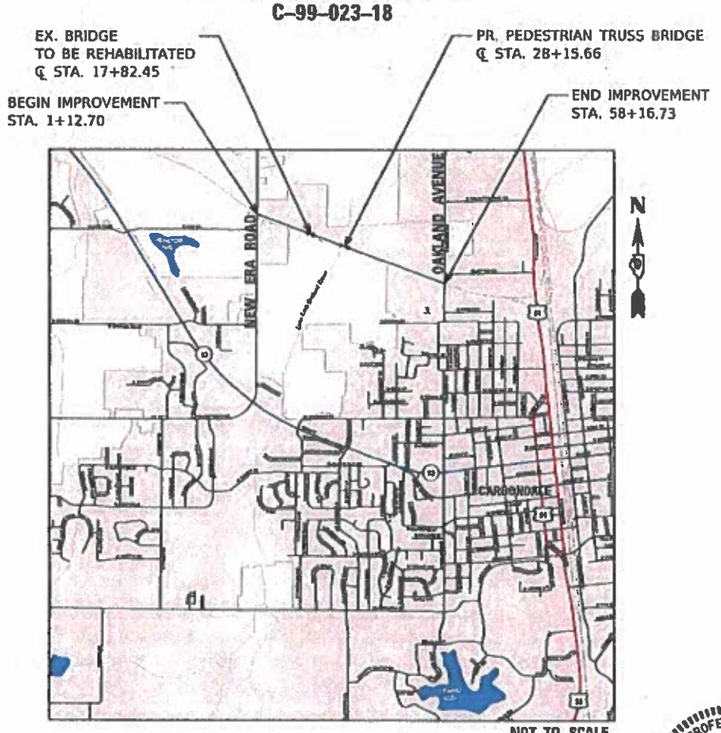
7	SCHEDULE OF QUANTITIES
8	ALIGNMENT, TIES AND BENCHMARKS
9-15	PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE
16-26	STRUCTURAL PLANS AND DETAILS
27	WOOD RAIL DETAILS
28-51	CROSS SECTIONS



NOT TO SCALE

LOCATION OF SECTION INDICATED THUS:- -■-

0 50' 100' — 1"= 25'

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

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

PROJECT MANAGER: ROBERT HARDIN

CONTRACT NO. 99632

GROSS LENGTH = 5,704.03 FT. = 1.080 MILE
NET LENGTH = 5,704.03 FT. = 1.080 MILE

LICENSED PROFESSIONAL ENGINEER
JEFFREY R. REIS
062-063262
STATE OF ILLINOIS

1-31-2022

JEFFREY R. REIS, P.E. EXPIRATION DATE
LICENSE NO. 062-063262 11-30-2023
COVERS SHEETS 1-15 AND 28-51

CITY OF CARBONDALE

APPROVED January 28th 20 22
Robert Hardin PE
CITY OF CARBONDALE

PASSED 3/29 20 22
DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW 3/29 20 22
ACTING DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL

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

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

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

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

ALL SIDEWALK CONSTRUCTION SHALL MEET THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS.

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

TREE REMOVAL

EVERY TREE SHALL BE SAVED, IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PROFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER. THE ENGINEER SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

NO TREE REMOVAL SHALL OCCUR BETWEEN APRIL 1ST AND OCTOBER 14TH OF ANY CONSTRUCTION YEAR TO AVOID IMPACTS TO INDIANA BAT HABITATS.

ALL CLEARING OF LOGS, SHRUBS, BUSHES, SAPLINGS, GRASS, WEEDS, OTHER VEGETATION AND STUMPS OF LESS THAN 6 INCHES IN DIAMETER WILL NOT BE MEASURED FOR PAYMENT.

ANY TREE ROOTS ENCOUNTERED DURING CONSTRUCTION SHALL BE EXCAVATED AND REMOVED TO A MINIMUM OF 6" BELOW THE SUB-GRADE OF THE PROPOSED SIDEWALK, OR AS DIRECTED BY THE ENGINEER. THE COST OF ROOT REMOVAL SHALL BE INCLUDED IN THE COST FOR PORTLAND CEMENT CONCRETE SIDEWALK OF THE THICKNESS SPECIFIED.

UTILITIES – LOCATIONS/INFORMATION ON PLANS

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

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

DRAINAGE

PROPOSED DITCHES OR SWALES SHALL BE CONSTRUCTED ACCORDING TO THE PLANS AND AS NEEDED, PER THE DIRECTION OF THE ENGINEER. COST SHALL BE INCLUDED IN COST OF EARTH EXCAVATION.

ALL EARTH AREAS SHALL BE SLOPED TO DRAIN TO PREVENT PONDING OF ANY WATERS, MAXIMUM SLOPE SHALL BE 4:1 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

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

EROSION CONTROL

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

EROSION AND SEDIMENT CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE IDOT STANDARD SPECIFICATIONS AND THE PROJECT PLANS SHOWING EROSION CONTROL ITEMS. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED EARLY IN THE CONSTRUCTION STAGES AND BE MAINTAINED FOR THE DURATION OF THE PROJECT AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

HIGHWAY STANDARDS

000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001 - 07	TEMPORARY EROSION CONTROL SYSTEMS
424001 - 11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542401 - 04	METAL FLARED END SECTION FOR PIPE CULVERTS
606001 - 08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001 - 02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006 - 05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201 - 05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501 - 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801 - 06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 08	TRAFFIC CONTROL DEVICES
720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 04	SIGN PANEL ERECTION DETAILS

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CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	2
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
Δ	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	783
Δ	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	426
	20200100	EARTH EXCAVATION	CU YD	675
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
	20300100	CHANNEL EXCAVATION	CU YD	162
	20400800	FURNISHED EXCAVATION	CU YD	750
	20800150	TRENCH BACKFILL	CU YD	22
	21400100	GRADING AND SHAPING DITCHES	FOOT	310
Δ	25000305	SEEDING, CLASS 3A	ACRE	1.5
Δ	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	140
Δ	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	140
Δ	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	140
	28000305	TEMPORARY DITCH CHECKS	FOOT	27
	28000400	PERIMETER EROSION BARRIER	FOOT	8203
	28000500	INLET AND PIPE PROTECTION	EACH	5
	28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	219
	28200200	FILTER FABRIC	SQ YD	219
	30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	1335
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	722
	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	44920
	42400800	DETECTABLE WARNINGS	SQ FT	32
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	18
	50200100	STRUCTURE EXCAVATION	CU YD	30
	50300225	CONCRETE STRUCTURES	CU YD	16.4
	50800105	REINFORCEMENT BARS	POUND	1940
	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	81
	51202305	DRIVING PILES	FOOT	81
	51203200	TEST PILE METAL SHELLS	EACH	1
	54262712	METAL FLARED END SECTIONS 12"	EACH	1
	54262715	METAL FLARED END SECTIONS 15"	EACH	2
	54262718	METAL FLARED END SECTIONS 18"	EACH	2

Δ SPECIALTY ITEMS

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
	54262724	METAL FLARED END SECTIONS 24"	EACH	2
	54262748	METAL FLARED END SECTIONS 48"	EACH	2
	542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	22
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	19
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	28
	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	24
	542D0253	PIPE CULVERTS, CLASS D, TYPE 1 48"	FOOT	125
	59000200	EPOXY CRACK INJECTION	FOOT	10.8
	59200101	BRIDGE WASHING NO. 1	EACH	1
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	18
	67100100	MOBILIZATION	L SUM	1
Δ	72000100	SIGN PANEL - TYPE 1	SQ FT	23
Δ	73000100	WOOD SIGN SUPPORT	FOOT	98
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	81
Δ	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	8
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
	Z0015500	DEBRIS REMOVAL	L SUM	1
Δ	Z0078000	WOOD RAIL	FOOT	96
Δ	Z0078002	WOOD RAIL (SPECIAL)	FOOT	60
	X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	1.2
	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	622
	X0350805	FOLD DOWN BOLLARDS	EACH	2
	X0800003	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YD	36
	X5030301	CONCRETE WEARING SURFACE (VARIABLE DEPTH)	SQ YD	38.1
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

Δ SPECIALTY ITEMS

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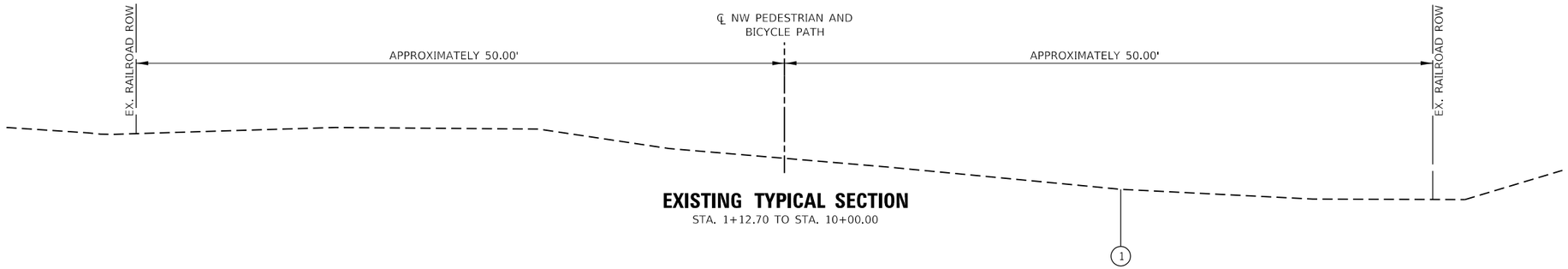
CARBONDALE

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	3
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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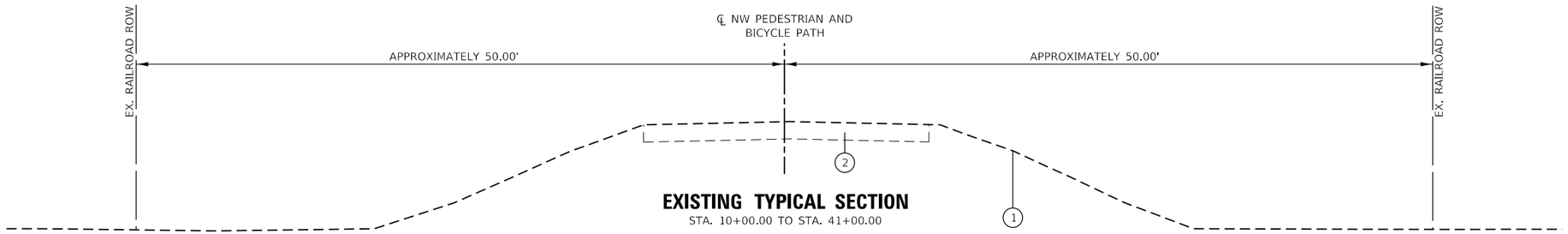

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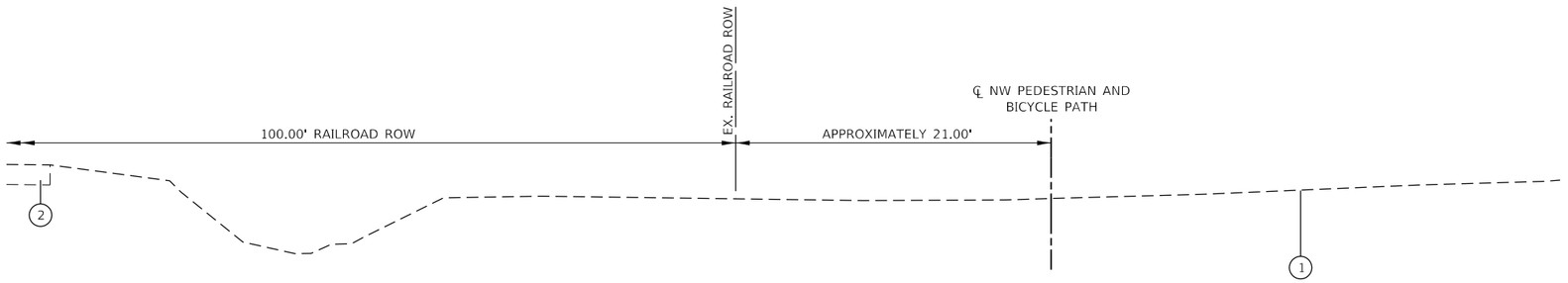
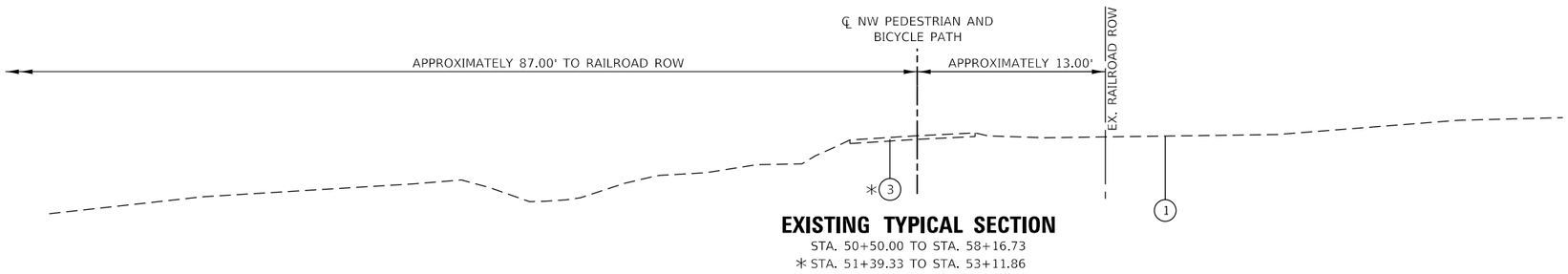
STA. 10+00.00 TO STA. 41+00.00



EXISTING TYPICAL SECTION

STA. 41+00.00 TO STA. 50+50.00



EXISTING TYPICAL SECTION

STA. 50+50.00 TO STA. 58+16.73

*STA. 51+39.33 TO STA. 53+11.86

LEGEND

1. EX. GROUND
2. EX. RAILROAD BALLAST
3. EX. CEMETERY ROAD (OIL & CHIP)
4. PR. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
   PR. AGGREGATE BASE COURSE, TYPE B, 3"
5. PR. AGGREGATE SUBGRADE IMPROVEMENT, VAR. DEPTH
6. PR. EARTH SHOULDER
7. PR. AGGREGATE BASE COURSE, TYPE B, 2"
   (SEE NOTE 1)
8.

NOTES:
1. INCORPORATE WITH EXISTING AGGREGATE RAIL BED MATERIAL AND GRADE TO PROVIDE LEVEL, UNIFORM BASE FOR CONCRETE SIDEWALK. ENGINEER TO DETERMINE LOCATION AND THICKNESS IN FIELD.

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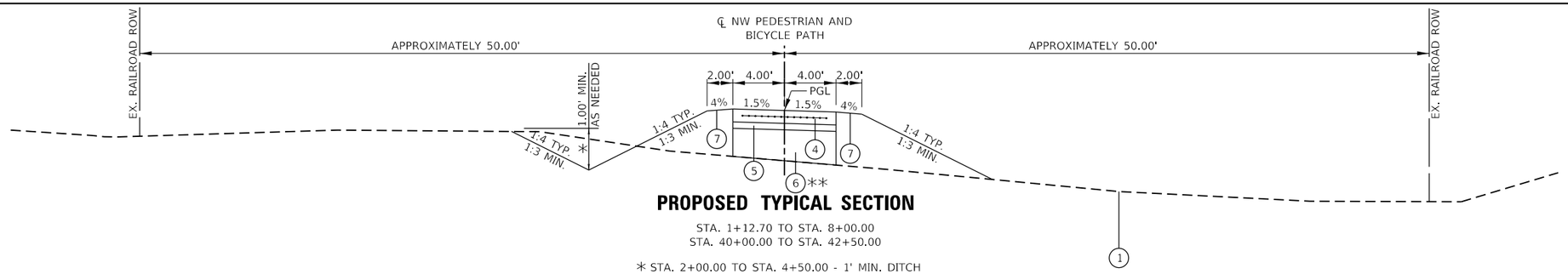
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 1 OF 3 SHEETS | STA. | TO STA.

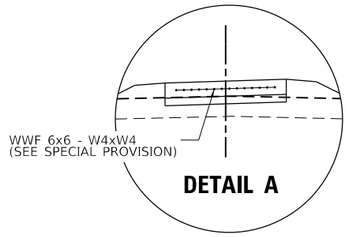
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	4
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 1+12.70 TO STA. 8+00.00
STA. 40+00.00 TO STA. 42+50.00

* STA. 2+00.00 TO STA. 4+50.00 - 1' MIN. DITCH
** STA. 5+00.00 TO STA. 8+00.00 = 5"



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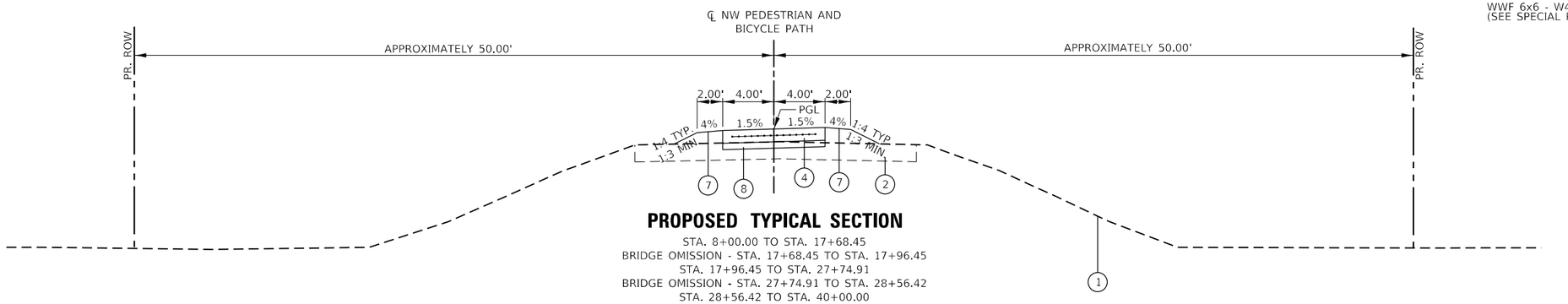
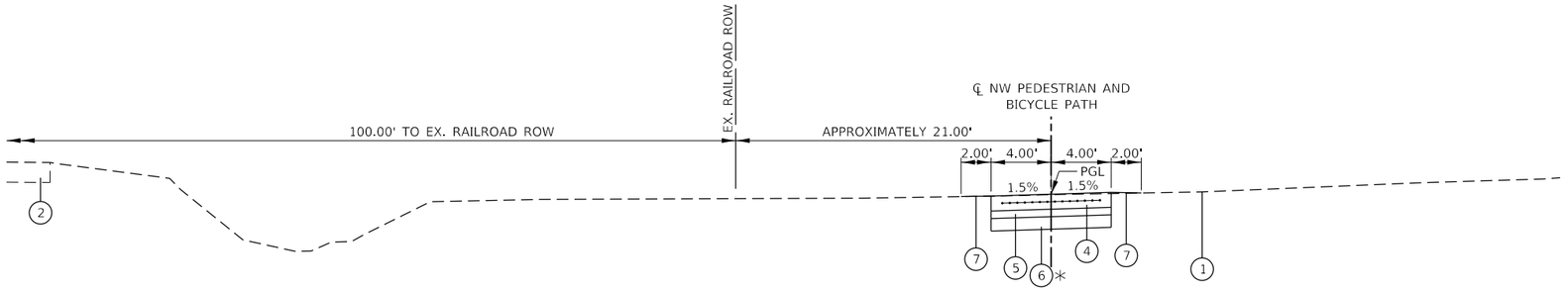


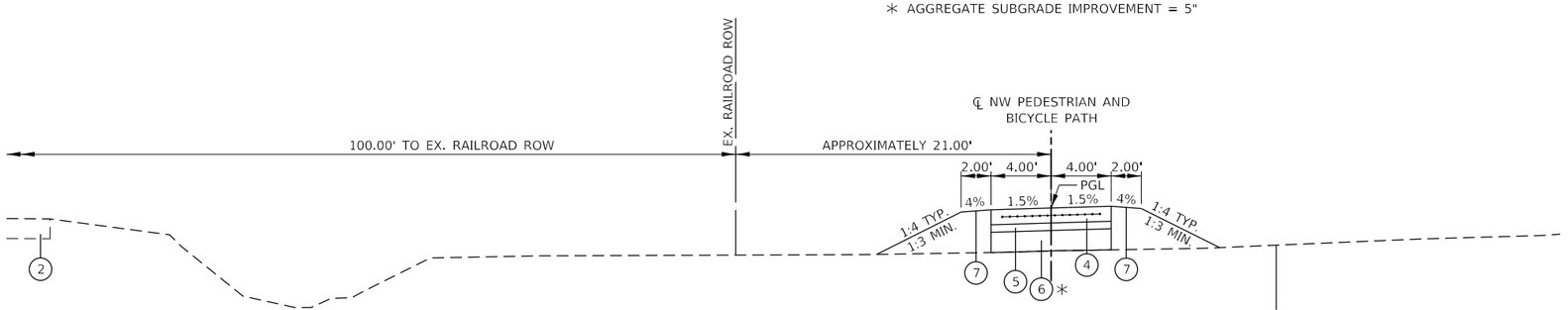
PROPOSED TYPICAL SECTION

STA. 8+00.00 TO STA. 17+68.45
BRIDGE OMISSION - STA. 17+68.45 TO STA. 17+96.45
STA. 17+96.45 TO STA. 27+74.91
BRIDGE OMISSION - STA. 27+74.91 TO STA. 28+56.42
STA. 28+56.42 TO STA. 40+00.00



PROPOSED TYPICAL SECTION

STA. 42+50.00 TO STA. 43+75.00
* AGGREGATE SUBGRADE IMPROVEMENT = 5"



PROPOSED TYPICAL SECTION

STA. 43+75.00 TO STA. 50+50.00
* STA. 44+00.00 TO STA. 50+50.00
AGGREGATE SUBGRADE IMPROVEMENT = 5"

LEGEND

1. EX. GROUND
2. EX. RAILROAD BALLAST
3. EX. CEMETERY ROAD (OIL & CHIP)
4. PR. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
   PR. AGGREGATE BASE COURSE, TYPE B, 3"
5. PR. AGGREGATE SUBGRADE IMPROVEMENT, VAR. DEPTH
6. PR. EARTH SHOULDER
7. PR. AGGREGATE BASE COURSE, TYPE B, 2"
   (SEE NOTE 1)
8.

NOTES:
1. INCORPORATE WITH EXISTING AGGREGATE RAIL BED MATERIAL AND GRADE TO PROVIDE LEVEL, UNIFORM BASE FOR CONCRETE SIDEWALK. ENGINEER TO DETERMINE LOCATION AND THICKNESS IN FIELD.

2. PGL SHALL BE APPROXIMATELY 6" ABOVE EX. GROUND UNLESS NOTED OTHERWISE ON THE PLAN AND PROFILE SHEETS.

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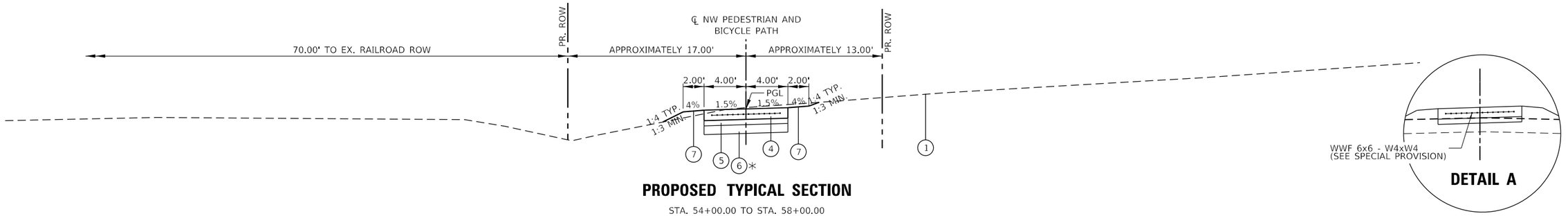
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 2 OF 3 SHEETS | STA. | TO STA.

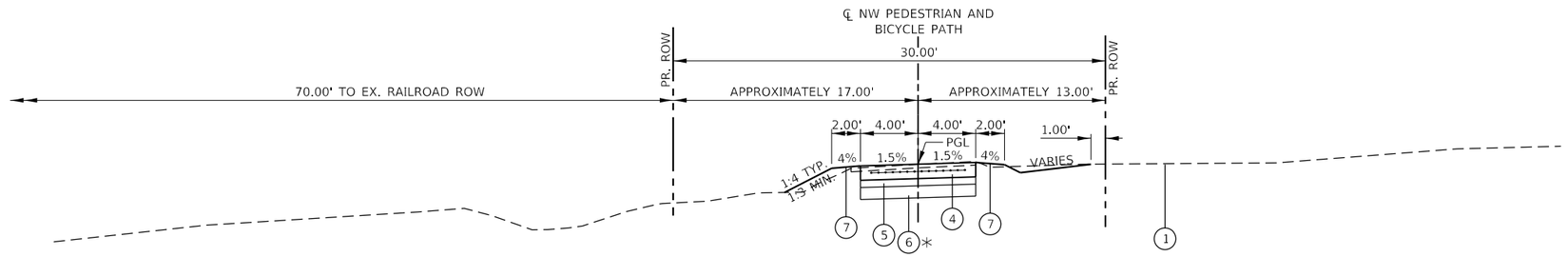
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	5
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 54+00.00 TO STA. 58+00.00
* AGGREGATE SUBGRADE IMPROVEMENT = 5"

DETAIL A



PROPOSED TYPICAL SECTION

STA. 50+50.00 TO STA. 54+00.00
STA. 58+00.00 TO STA. 58+16.73
* AGGREGATE SUBGRADE IMPROVEMENT = 5"

LEGEND

1. EX. GROUND
2. EX. RAILROAD BALLAST
3. EX. CEMETERY ROAD (OIL & CHIP)
4. PR. PORTLAND CEMENT CONCRETE SIDEWALK, 6"
   PR. AGGREGATE BASE COURSE, TYPE B, 3"
5. PR. AGGREGATE SUBGRADE IMPROVEMENT, VAR. DEPTH
6. PR. EARTH SHOULDER
7. PR. AGGREGATE BASE COURSE, TYPE B, 2"
   (SEE NOTE 1)
8.

NOTES:
1. INCORPORATE WITH EXISTING AGGREGATE RAIL BED MATERIAL AND GRADE TO PROVIDE LEVEL, UNIFORM BASE FOR CONCRETE SIDEWALK. ENGINEER TO DETERMINE LOCATION AND THICKNESS IN FIELD.

2. PGL SHALL BE APPROXIMATELY 6" ABOVE EX. GROUND UNLESS NOTED OTHERWISE ON THE PLAN AND PROFILE SHEETS.

MODEL: Default
FILE NAME: P:\2017\17052814 CADD - DWG\4.7 Tran\CADD Sheets\170528-ht-typ.dgn

TWM

USER NAME = efisher	DESIGNED - EKF	REVISED -
	DRAWN - EKF	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -
PLOT DATE = 1/24/2022	DATE -	REVISED -

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	6
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION				EARTH EXCAVATION	FOR INFORMATION ONLY			FURNISHED EXCAVATION
					EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)	
ROUTE	STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD	CU YD
NW PATH	1+14.78	TO	58+16.73	674	505.5	1254	-748.5	748.5
			SUB-TOTAL:	674	506	1254	-748	749
			PAY TOTAL:	675	505	1255	-750	750

SEEDING SCHEDULE

LOCATION			SEEDING, CLASS 3A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	FOR INFORMATION ONLY	
							MULCH, METHOD 1	TEMP. EROSION CONTROL SEEDING (POUND) (2 APPL.)
STATION	TO	STATION	ACRE	POUND	POUND	POUND	ACRE	POUND
NORTHWEST PEDESTRIAN AND BICYCLE PATH								
1+12.70	TO	58+16.73	1.518	136.6	136.6	136.6	1.518	303.6
		TOTAL:	1.518	136.6	136.6	136.6	1.50	300
		PAY TOTAL:	1.50	140	140	140		

SIDEWALK SCHDULE

LOCATION			AGGREGATE BASE COURSE, TYPE B	AGGREGATE SUBGRADE IMPROVEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	DETECTABLE WARNINGS	FOLD DOWN BOLLARDS
STATION			TON	TON	CU YD	SQ FT	SQ FT	EACH
NORTHWEST PEDESTRIAN AND BICYCLE PATH								
1+12.70	TO	5+00.00	106.9	304.3		44871.8	16.0	
1+35.78								1
5+00.00	TO	8+00.00		77.8				
8+00.00	TO	40+00.00	331.8					
40+00.00	TO	42+50.00	282.6	337.9				
42+50.00	TO	43+75.00		32.4				
43+75.00	TO	44+00.00		14.9				
44+00.00	TO	58+16.73		367.3			16.0	
57+65.00	TO	57+73.00	0.9			48.0		
57+95.73								1
SUB-TOTAL:			722	1135	0	44920	32	2
CONTINGENCY:				200	100			
TOTAL:			722	1335	100	44920	32	2

PAVEMENT MARKING SCHEDULE

LOCATION					PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 12"
					YELLOW	WHITE
STATION	TO	STATION	LOCATION	TYPE	FOOT	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH						
1+20.78	TO	1+50.78	Center	Solid Yellow Line	40.4	
1+21.28			Stop bar	Solid White Line		4.0
57+80.73	TO	58+10.73	Center	Solid Yellow Line	40.4	
58+10.21			Stop bar	Solid White Line		4.0
				TOTAL:	81	8

EROSION CONTROL SCHEDULE

LOCATION				TEMPORARY DITCH CHECKS		INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER
STATION	TO	STATION	LT/RT	EACH	FOOT	EACH	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH							
1+12.70	TO	5+00.00	LT	2	18	1	
1+12.70	TO	5+00.00	RT				50.0
5+00.00	TO	17+00.00	LT				985.0
5+00.00	TO	17+00.00	RT				680.0
17+00.00	TO	29+00.00	LT				1114.0
17+00.00	TO	29+00.00	RT				1116.0
29+00.00	TO	40+00.00	LT				1100.0
29+00.00	TO	40+00.00	RT				1100.0
40+00.00	TO	46+00.00	LT			1	573.0
40+00.00	TO	46+00.00	RT			1	285.0
46+00.00	TO	52+00.00	LT				600.0
46+00.00	TO	52+00.00	RT				
52+00.00	TO	58+16.73	LT	1	9		600.0
52+00.00	TO	58+16.73	RT			2	
			TOTAL:	27		5	8,203

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
1+12.70	TO	5+00.00	LT		
1+12.70	TO	5+00.00	RT		
5+00.00	TO	17+00.00	LT	22.0	20.0
5+00.00	TO	17+00.00	RT	30.0	21.0
17+00.00	TO	29+00.00	LT	88.0	
17+00.00	TO	29+00.00	RT	28.0	50.0
29+00.00	TO	40+00.00	LT	162.0	
29+00.00	TO	40+00.00	RT	116.0	
40+00.00	TO	46+00.00	LT	101.0	79.0
40+00.00	TO	46+00.00	RT	152.0	82.0
46+00.00	TO	52+00.00	LT	73.0	136.0
46+00.00	TO	52+00.00	RT	11.0	38.0
52+00.00	TO	58+16.73	LT		
52+00.00	TO	58+16.73	RT		
			TOTAL:	783	426

*SEE PLAN SHEETS FOR ADDITIONAL INFORMATION

DRAINAGE SCHEDULE

LOCATION							INLETS, TYPE A, TYPE 8 GRATE	METAL FLARED END SECTIONS					PIPE CULVERTS, CLASS D, TYPE 1					TRENCH BACKFILL
								12 INCH	15 INCH	18 INCH	24 INCH	48 INCH	12 INCH	15 INCH	18 INCH	24 INCH	48 INCH	
STATION			TO	STATION			EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
NORTHWEST PEDESTRIAN AND BICYCLE PATH																		
3+00.00	13.08	LT	TO	3+00.00	14.41	RT				2					27.5			3.4
40+90.02	20.56	RT	TO	42+09.55	24.76	LT						2					124.9	12.2
43+88.62	11.34	RT	TO	43+93.54	12.21	LT					2					24.0		2.8
53+60.27	7.74	LT	TO	53+77.85	7.73	RT	1	1					22.4					2.4
58+04.97	9.24	LT	TO	58+07.72	9.16	RT			2					18.6				1.5
						TOTAL:	1	1	2	2	2	2	22	19	28	24	125	22

CURB AND GUTTER SCHDULE

LOCATION				COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	COMBINATION CURB AND GUTTER REMOVAL
STATION			NOTES	FOOT	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
1+12.70	TO	1+14.78	CURB RAMP	18.0	18.0
			TOTAL:	18	18

GRADING AND SHAPING DITCHES SCHEDULE

LOCATION				GRADING AND SHAPING DITCHES
STATION	TO	STATION	LT/RT	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH				
2+00.00	TO	4+00.00	LT	200.0
52+50.00	TO	53+60.00	LT	110.0
			TOTAL:	310

FENCE SCHDULE

LOCATION	WOOD RAIL
STATION	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH	
EX. BRIDGE (4 QUADS)	48.0
PR. TRUSS BRIDGE (3 QUADS)	48.0
TOTAL:	96

NOTES:
1. FOR BRIDGE QUANTITIES, SEE STRUCTURAL PLANS AND DETAILS.

SIGNAGE SCHEDULE

LOCATION			DESCRIPTION						SIGN PANEL - TYPE 1	WOOD SIGN SUPPORT
STATION			SIGN	SHAPE	SIZE				SQ FT	FOOT
NORTHWEST PEDESTRIAN AND BICYCLE PATH										
1+20.80	8.00	RT	R5-3 (NO MOTOR VEHICLES)	RECTANGLE	24.0	X	24.0		4.00	12.3
1+20.80	8.00	LT	R1-1 (STOP)	OCTAGON	18.0	X	18.0		2.25	11.8
2+70.80	8.00	LT	W3-1 (STOP AHEAD)	RECTANGLE	18.0	X	18.0		2.25	12.4
56+60.72	8.00	RT	W3-1 (STOP AHEAD)	RECTANGLE	18.0	X	18.0		2.25	12.4
58+10.72	8.00	RT	R1-1 (STOP)	OCTAGON	18.0	X	18.0		2.25	11.8
58+10.72	8.00	LT	R5-3 (NO MOTOR VEHICLES)	RECTANGLE	24.0	X	24.0		4.00	12.3
OAKLAND AVE.		LT	W16-1 (SHARE THE ROAD)	RECTANGLE	18.0	X	24.0		3.00	12.3
OAKLAND AVE.		LT	W16-1 (SHARE THE ROAD)	RECTANGLE	18.0	X	24.0		3.00	12.3
								TOTAL:	23	98

MODEL:
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TWM

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	DRAWN - EKF	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 3/4/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

SCHEDULE OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	7
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

PROP. CURVE P_FINAL1
PI STA. = 1+35.59
Δ = 29° 11' 15" (RT)
D = 163° 42' 08"
R = 35.00'
T = 9.11'
L = 17.83'
E = 1.17'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 1+26.47
P.T. STA. = 1+44.30

PROP. CURVE P_FINAL2
PI STA. = 2+15.45
Δ = 9° 53' 18" (LT)
D = 28° 38' 52"
R = 200.00'
T = 17.30'
L = 34.52'
E = 0.75'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 1+98.15
P.T. STA. = 2+32.67

CARBONDALE NORTHWEST
WASTEWATER TREATMENT PLANT

PROP. CURVE P_FINAL3
PI STA. = 10+94.34
Δ = 0° 26' 09" (RT)
D = 0° 22' 55"
R = 15,000.00'
T = 57.05'
L = 114.10'
E = 0.11'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 10+37.29
P.T. STA. = 11+51.39

PROP. CURVE P_FINAL4
PI STA. = 16+02.49
Δ = 0° 58' 29" (LT)
D = 0° 45' 50"
R = 7,500.00'
T = 63.80'
L = 127.59'
E = 0.27'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 15+38.69
P.T. STA. = 16+66.28

PROP. CURVE P_FINAL5
PI STA. = 20+13.42
Δ = 0° 32' 21" (RT)
D = 0° 22' 55"
R = 15,000.00'
T = 70.56'
L = 141.12'
E = 0.17'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 19+42.86
P.T. STA. = 20+83.98

PC Sta 1+00.00
PC Sta 1+26.47
PI Sta 1+35.59
PT Sta 1+44.30
PC Sta 1+98.15
PT Sta 2+32.67
PI Sta 2+15.45
PC Sta 10+37.29
PI Sta 10+94.34
PT Sta 11+51.39
PC Sta 15+38.69
PI Sta 16+02.49
PT Sta 16+66.28
PC Sta 19+42.86
PI Sta 20+13.42
PT Sta 20+83.98
103
106
402
NEW ERA ROAD
TRIBUTARY TO LITTLE CRAB ORCHARD CREEK
EX. BRIDGE TO REMAIN
PR. ℄ NORTHWEST PATH
LITTLE CRAB ORCHARD CREEK
PR. PEDESTRIAN TRUSS BRIDGE
MATCHLINE STATION 29+00.00

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION	STATION	OFFSET	LT/RT
103	394392.54	2562790.14	406.64	IRCS	1+51.13	48.75	RT
106	393877.33	2564346.25	395.40	IRCS	17+82.46	0.04	LT
402	393556.02	2565297.67	391.77	IRCS	27+86.56	13.23	LT
400	393448.45	2565556.30	396.72	IRCS	30+66.26	1.66	RT
100	392697.02	2567754.97	406.58	IRCS	54+10.39	62.48	LT
101	392596.82	2568105.07	405.64	IRCS	57+73.84	85.14	LT

0 100 200 300
SCALE IN FEET

E.T. SIMONDS

PROP. CURVE P_FINAL8
PI STA. = 50+45.58
Δ = 29° 59' 54" (LT)
D = 57° 17' 45"
R = 100.00'
T = 26.79'
L = 52.36'
E = 3.53'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 50+18.79
P.T. STA. = 50+71.15

PROP. CURVE P_FINAL9
PI STA. = 51+12.36
Δ = 29° 59' 54" (RT)
D = 57° 17' 45"
R = 100.00'
T = 26.79'
L = 52.36'
E = 3.53'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 50+85.57
P.T. STA. = 51+37.92

PROP. CURVE P_FINAL10
PI STA. = 58+04.72
Δ = 18° 42' 33" (LT)
D = 163° 42' 08"
R = 35.00'
T = 5.77'
L = 11.43'
E = 0.47'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 57+98.96
P.T. STA. = 58+10.38

MATCHLINE STATION 29+00.00
400
100
101
PR. ℄ NORTHWEST PATH
PC Sta 40+78.60
PI Sta 41+32.19
PT Sta 41+83.32
PC Sta 42+18.15
PT Sta 42+71.74
PT Sta 43+22.87
PC Sta 50+45.58
PI Sta 50+71.15
PT Sta 51+12.36
PT Sta 51+37.92
PC Sta 57+98.96
PI Sta 58+04.72
PT Sta 58+24.39
EX. ACCESS ROAD
READY MIX ROAD
N. OAKLAND AVENUE
OAKLAND CEMETERY

PROP. CURVE P_FINAL6
PI STA. = 41+32.19
Δ = 30° 00' 00" (RT)
D = 28° 38' 52"
R = 200.00'
T = 53.59'
L = 104.72'
E = 7.06'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 40+78.60
P.T. STA. = 41+83.32

PROP. CURVE P_FINAL7
PI STA. = 42+71.74
Δ = 29° 59' 57" (LT)
D = 28° 38' 52"
R = 200.00'
T = 53.59'
L = 104.72'
E = 7.05'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 42+18.15
P.T. STA. = 43+22.87

0 100 200 300
SCALE IN FEET

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	DRAWN - EKF	REVISED -	
PLOT SCALE = 200.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 1/24/2022	DATE -	REVISED -	

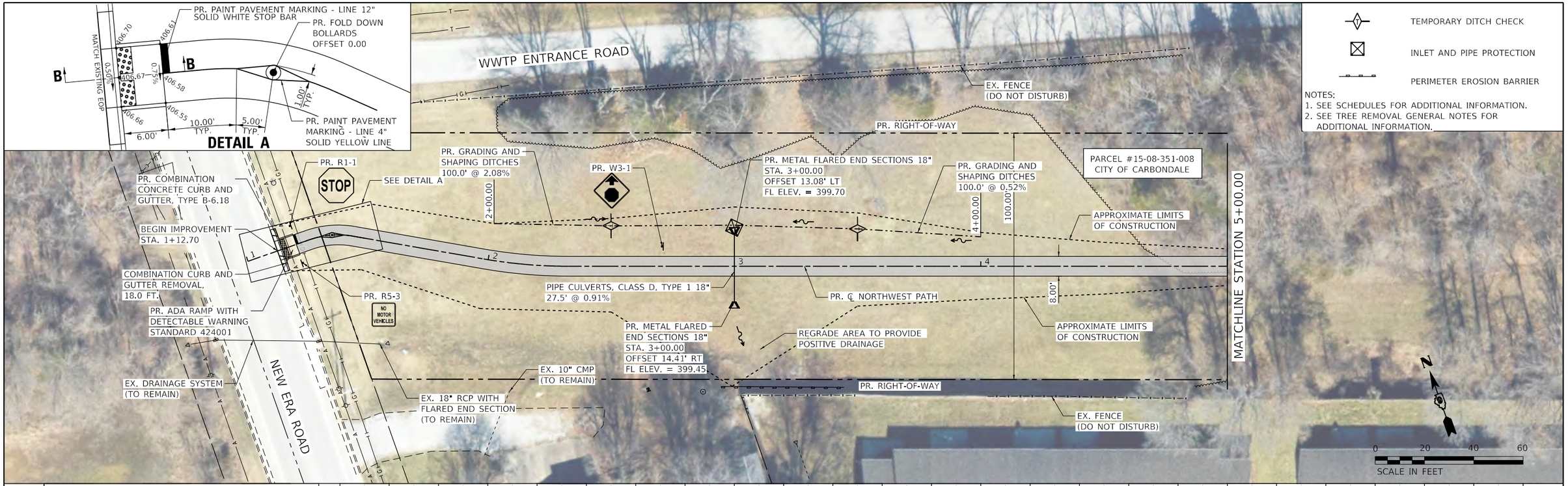
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	8
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



PLAN — NOTE BOOK NO. — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE

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TWM

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	DRAWN - EKF	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 3/4/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 1 OF 7 SHEETS | STA. 1+12.70 TO STA. 5+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	9
		CONTRACT NO. 99632		
		ILLINOIS	FED. AID PROJECT	

TEMPORARY DITCH CHECK

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER

NOTES:
1. SEE SCHEDULES FOR ADDITIONAL INFORMATION.
2. SEE TREE REMOVAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
1+12.70	TO	18+00.00	LT	7, 8, 7	20
1+12.70	TO	18+00.00	RT	8, 7, 7, 8	21

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	DRAWN - EKF	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 3/4/2022	DATE -	REVISED -	

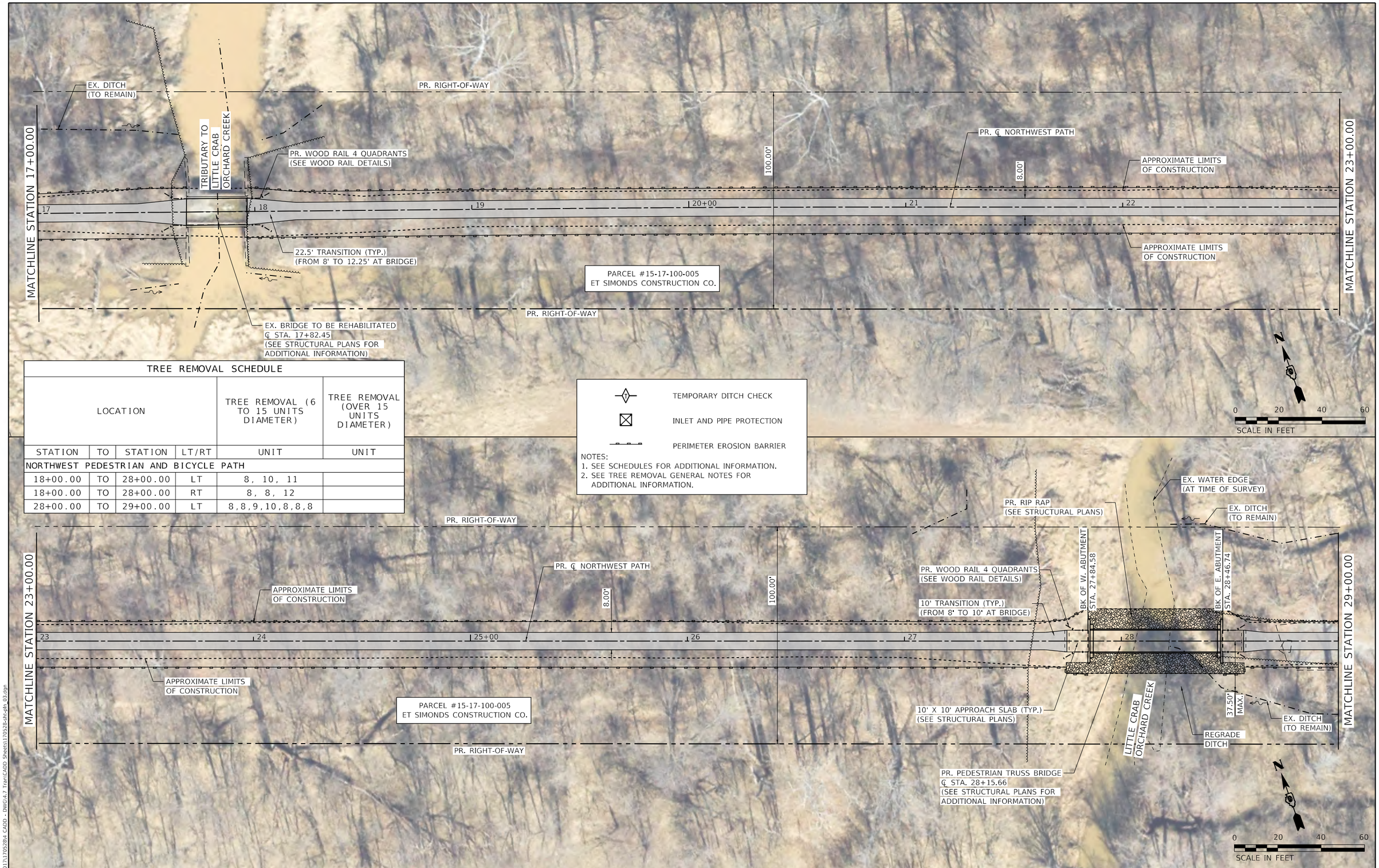
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 2 OF 7 SHEETS | STA. 5+00.00 TO STA. 17+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	10
		CONTRACT NO. 99632		
		ILLINOIS	FED. AID PROJECT	



TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
18+00.00	TO	28+00.00	LT	8, 10, 11	
18+00.00	TO	28+00.00	RT	8, 8, 12	
28+00.00	TO	29+00.00	LT	8,8,9,10,8,8,8	

NOTES:
1. SEE SCHEDULES FOR ADDITIONAL INFORMATION.
2. SEE TREE REMOVAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

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TWM

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	DRAWN - EKF	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 3/4/2022	DATE -	REVISED -	

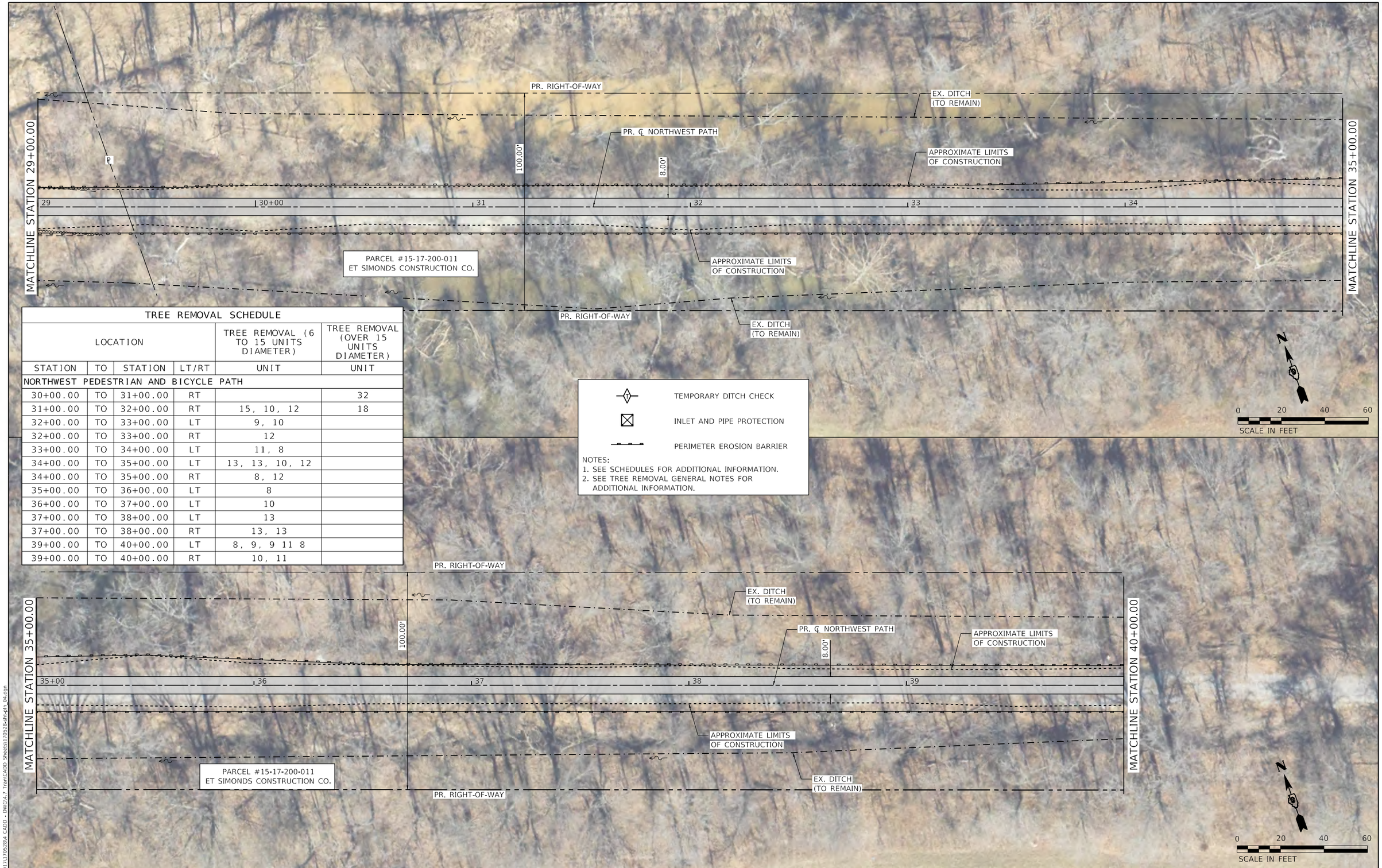
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 3 OF 7 SHEETS | STA. 17+00.00 TO STA. 29+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	11
		CONTRACT NO. 99632		
		ILLINOIS	FED. AID PROJECT	



TEMPORARY DITCH CHECK

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER

NOTES:
1. SEE SCHEDULES FOR ADDITIONAL INFORMATION.
2. SEE TREE REMOVAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
30+00.00	TO	31+00.00	RT		32
31+00.00	TO	32+00.00	RT	15, 10, 12	18
32+00.00	TO	33+00.00	LT	9, 10	
32+00.00	TO	33+00.00	RT	12	
33+00.00	TO	34+00.00	LT	11, 8	
34+00.00	TO	35+00.00	LT	13, 13, 10, 12	
34+00.00	TO	35+00.00	RT	8, 12	
35+00.00	TO	36+00.00	LT	8	
36+00.00	TO	37+00.00	LT	10	
37+00.00	TO	38+00.00	LT	13	
37+00.00	TO	38+00.00	RT	13, 13	
39+00.00	TO	40+00.00	LT	8, 9, 9 11 8	
39+00.00	TO	40+00.00	RT	10, 11	

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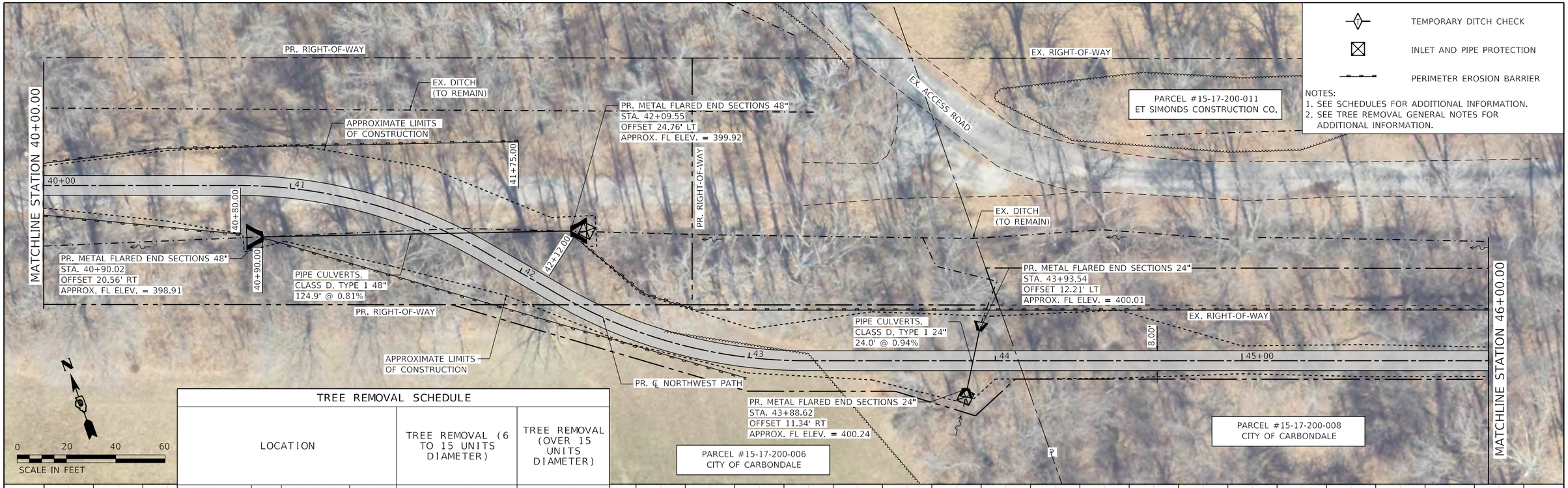
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

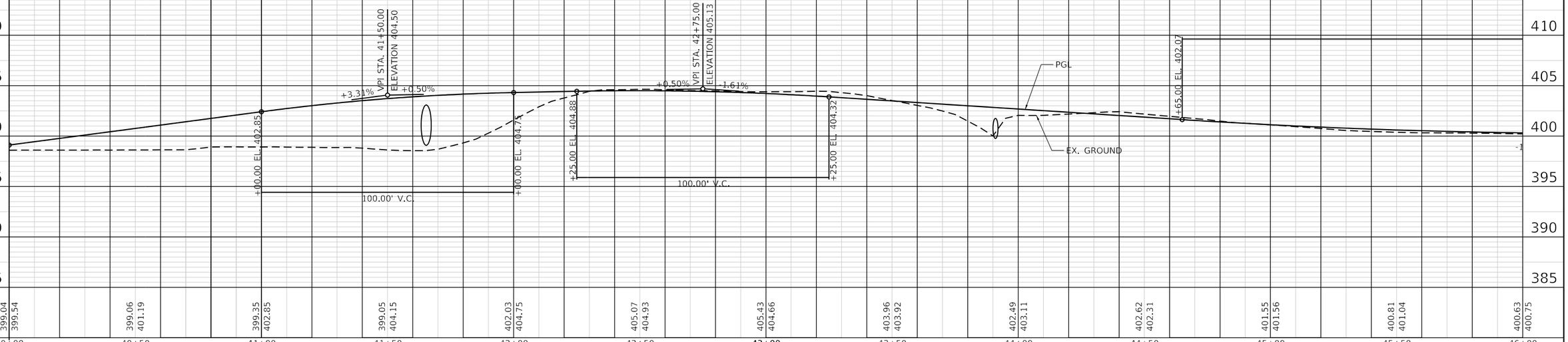
SCALE: 1" = 20' | SHEET 4 OF 7 SHEETS | STA. 29+00.00 TO STA. 40+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	12
		CONTRACT NO. 99632		
		ILLINOIS	FED. AID PROJECT	



TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
41+00.00	TO	41+83.00	RT	6, 11, 8, 15, 8	
41+83.00	TO	42+18.00	RT	8, 6, 13	38
42+18.00	TO	42+70.00	RT	15	28
43+22.00	TO	44+00.00	LT	10, 8, 8, 10, 10	
43+22.00	TO	44+00.00	RT	8, 11, 13, 8, 7	
44+00.00	TO	47+00.00	LT	9,9,7,7,7,7,9	20,17,21,21
44+00.00	TO	47+00.00	RT	7, 8	16



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PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

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PLOT DATE = 3/4/2022	DATE -	REVISED -	

CARBONDALE — All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 5 OF 7 SHEETS | STA. 40+00.00 | TO STA. 46+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	13
	CONTRACT NO. 99632			
	ILLINOIS	FED. AID PROJECT		

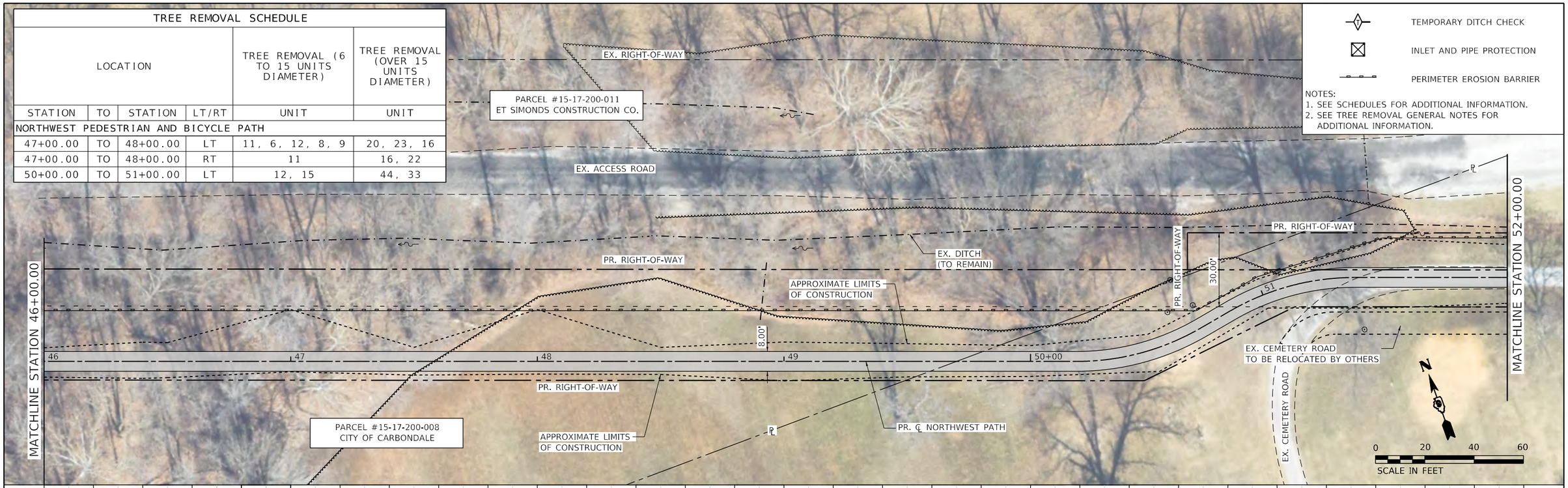
TREE REMOVAL SCHEDULE					
LOCATION				TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION	TO	STATION	LT/RT	UNIT	UNIT
NORTHWEST PEDESTRIAN AND BICYCLE PATH					
47+00.00	TO	48+00.00	LT	11, 6, 12, 8, 9	20, 23, 16
47+00.00	TO	48+00.00	RT	11	16, 22
50+00.00	TO	51+00.00	LT	12, 15	44, 33

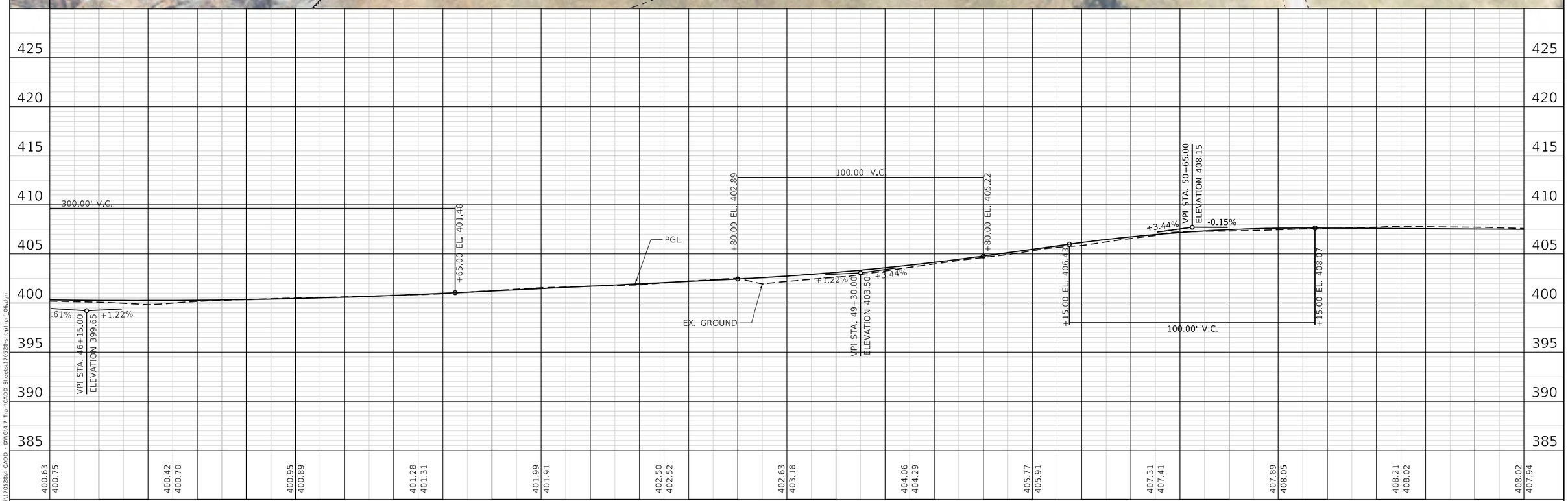
TEMPORARY DITCH CHECK

INLET AND PIPE PROTECTION

PERIMETER EROSION BARRIER

NOTES:
1. SEE SCHEDULES FOR ADDITIONAL INFORMATION.
2. SEE TREE REMOVAL GENERAL NOTES FOR ADDITIONAL INFORMATION.





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

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

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PLOT DATE = 3/4/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 6 OF 7 SHEETS | STA. 46+00.00 TO STA. 52+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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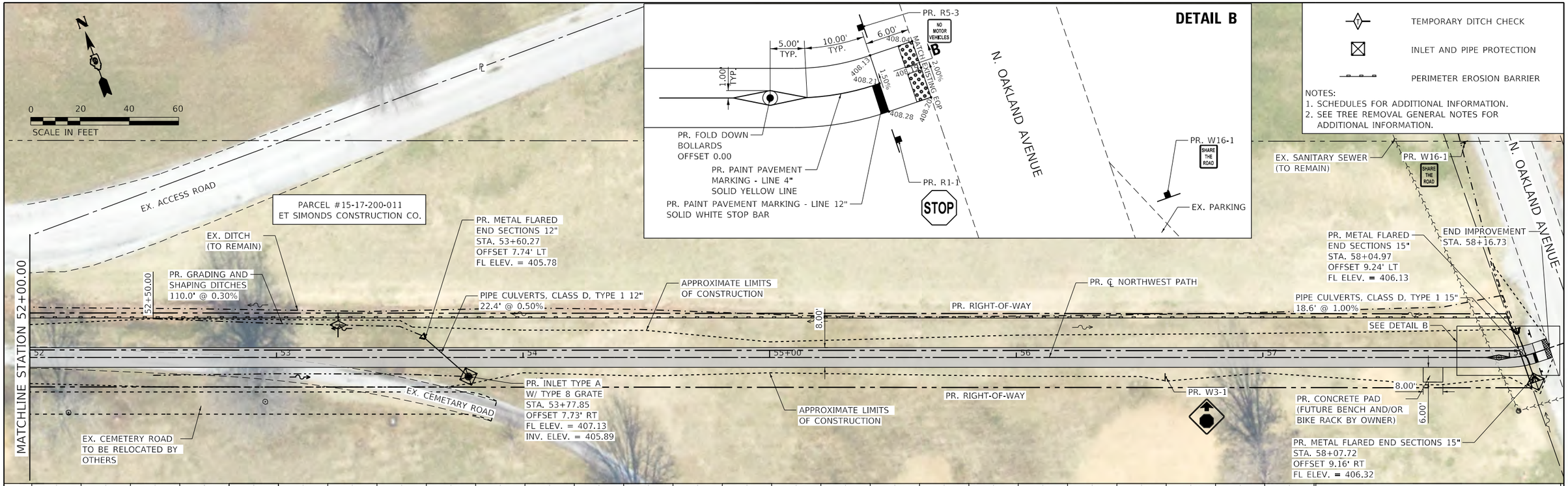
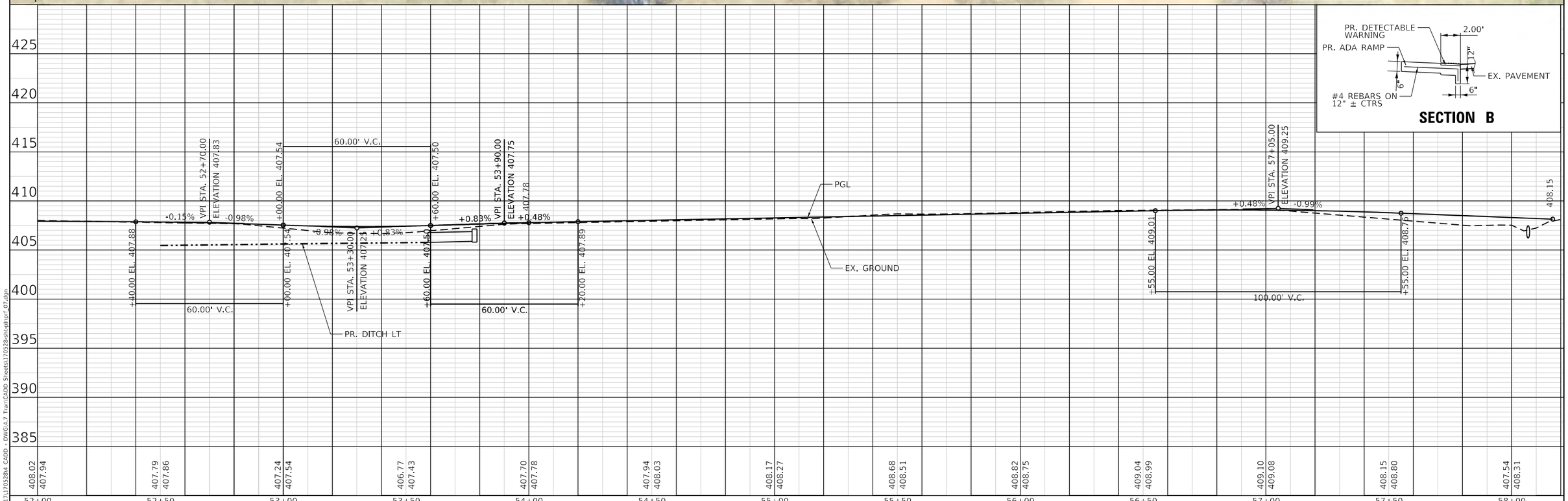
		ILLINOIS	FED. AID PROJECT	





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PROFILE — SURVEYED | PLOTTED | GRADES CHECKED | E.M. NOTED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO. | BY | DATE

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PLOT DATE = 3/4/2022		DATE -		REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

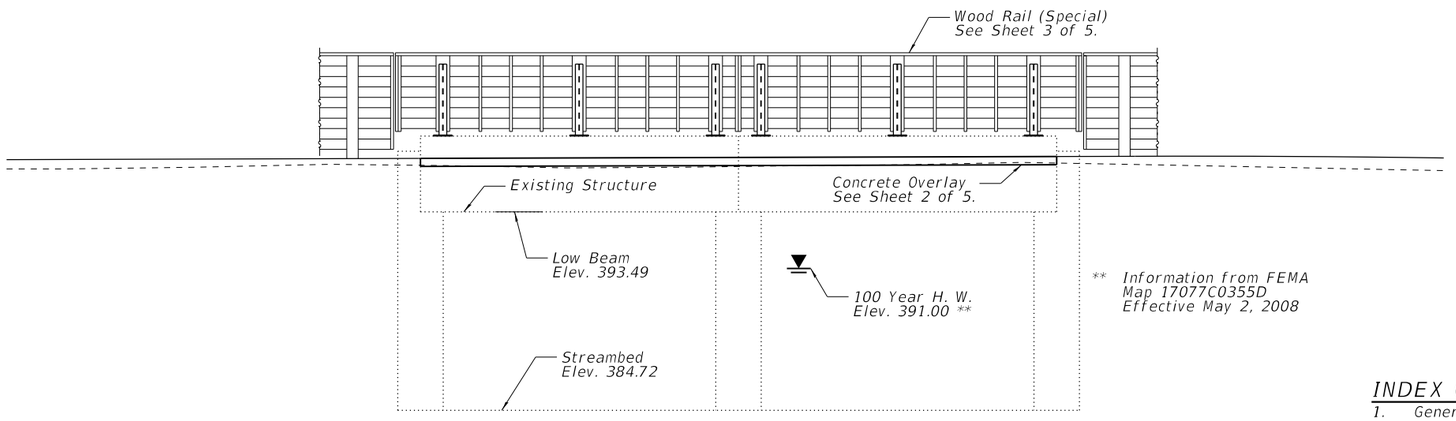
PLAN, EROSION CONTROL, PAVEMENT MARKING AND SIGNAGE

SCALE: 1" = 20' | SHEET 7 OF 7 SHEETS | STA. 52+00.00 TO STA.58+16.73

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	15
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

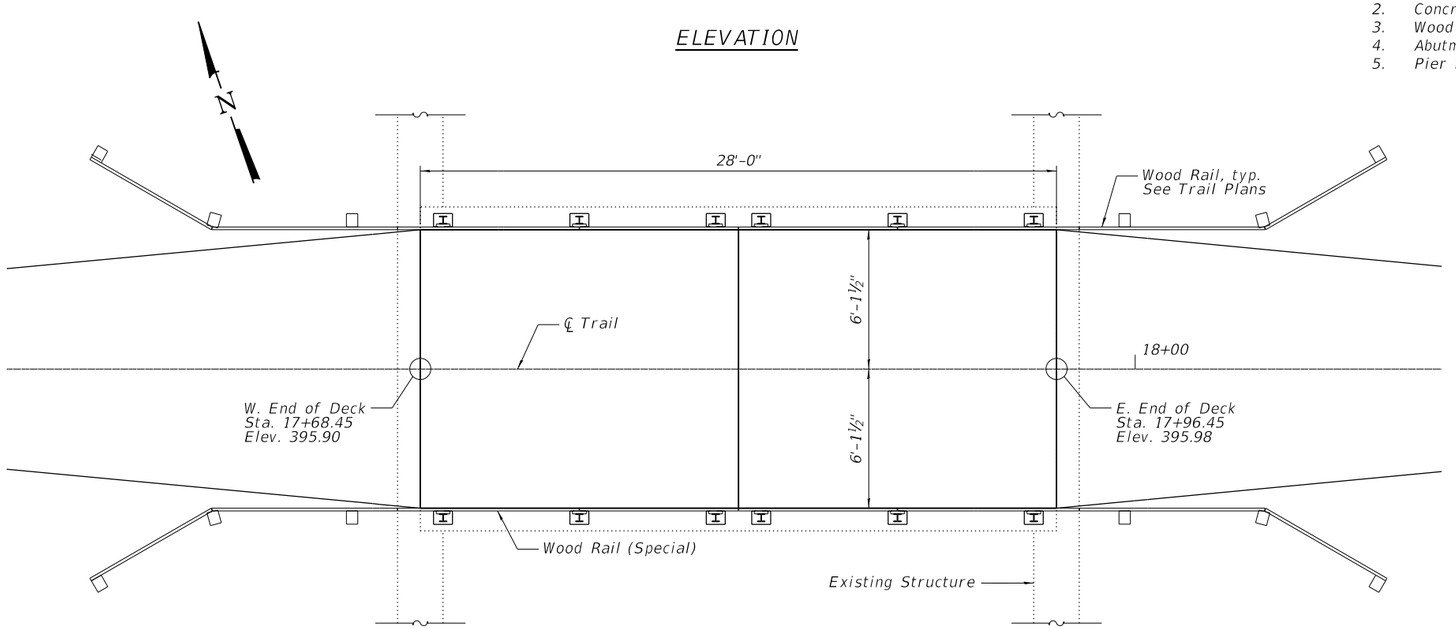
Benchmark: Control Point #106 – Iron Rod with Control Cap. Station 17+82.46, Offset 0.04 ft. Lt, Elevation NAVD '88 = 395.40

Existing Structure: Two simple span, reinforced concrete slabs with a longitudinal joint along the centerline of the structure on closed concrete abutments and concrete wall pier.



** Information from FEMA Map 17077C0355D Effective May 2, 2008

ELEVATION



PLAN

INDEX OF SHEETS

1. General Plan & Elevation
2. Concrete Overlay
3. Wood Rail (Special) Details
4. Abutment Repairs
5. Pier Repairs

GENERAL NOTES

1. Plan dimensions and details relative to the existing structure are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Wearing Surface (Variable Depth)	Sq. Yd.	38.1		38.1
Wood Rail (Special)	Foot	60		60
Polymer Modified Portland Cement Mortar	Sq. Ft.		1.2	1.2
Bridge Washing No. 1	Each	0.5	0.5	1
Debris Removal	L. Sum	1		1
Epoxy Crack Injection	Foot		10.8	10.8

DESIGN SPECIFICATIONS

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges 2015 Interims

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 65,000 psi (min.) (WW Reinforcement)

LOADING

Pedestrian Live Load = 90 psf
Vehicle Live Load = AASHTO H5

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the AASHTO Design Specifications shown on the plans.

LICENSED STRUCTURAL ENGINEER
ANGELA L. NEMSKY
081-005503
STATE OF ILLINOIS

1/27/2022

EXPIRES 11/30/2022

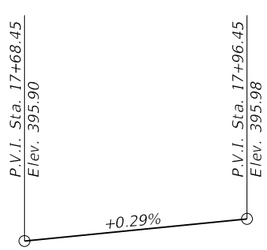
WATERWAY INFORMATION **

Drainage Area = 8.91 sq mi Low Grade Elev. 395.00 @ Sta. 18+40.00

Flood	Freq. Yr.	Q C.F.S.	Opening Ft² Exist.	Opening Ft² Prop.	Nat. H.W.E.	Head – Ft. Exist.	Head – Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10								
Design									
Base	100	4640	---	151	391.00				
Overtopping									
Max. Calc.	500			175	392.00				

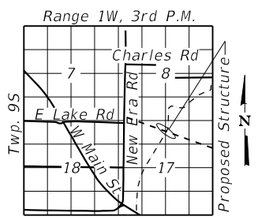
DESIGN SCOUR ELEVATION TABLE

Design Scour Elev. (ft.)	W. Abut.	E. Abut.
	384.72	384.72



PROFILE GRADE

(along ℄ Northwest Pedestrian and Bicycle Path)



LOCATION SKETCH

GENERAL PLAN & ELEVATION NORTHWEST PEDESTRIAN AND BICYCLE PATH OVER TRIB. TO LITTLE CRAB ORCHARD CREEK SECTION 17-00136-00-BT JACKSON COUNTY STA. 17+82.45

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CARBONDALE All Ways Open

CITY OF CARBONDALE

GENERAL PLAN & ELEVATION

SHEET 1 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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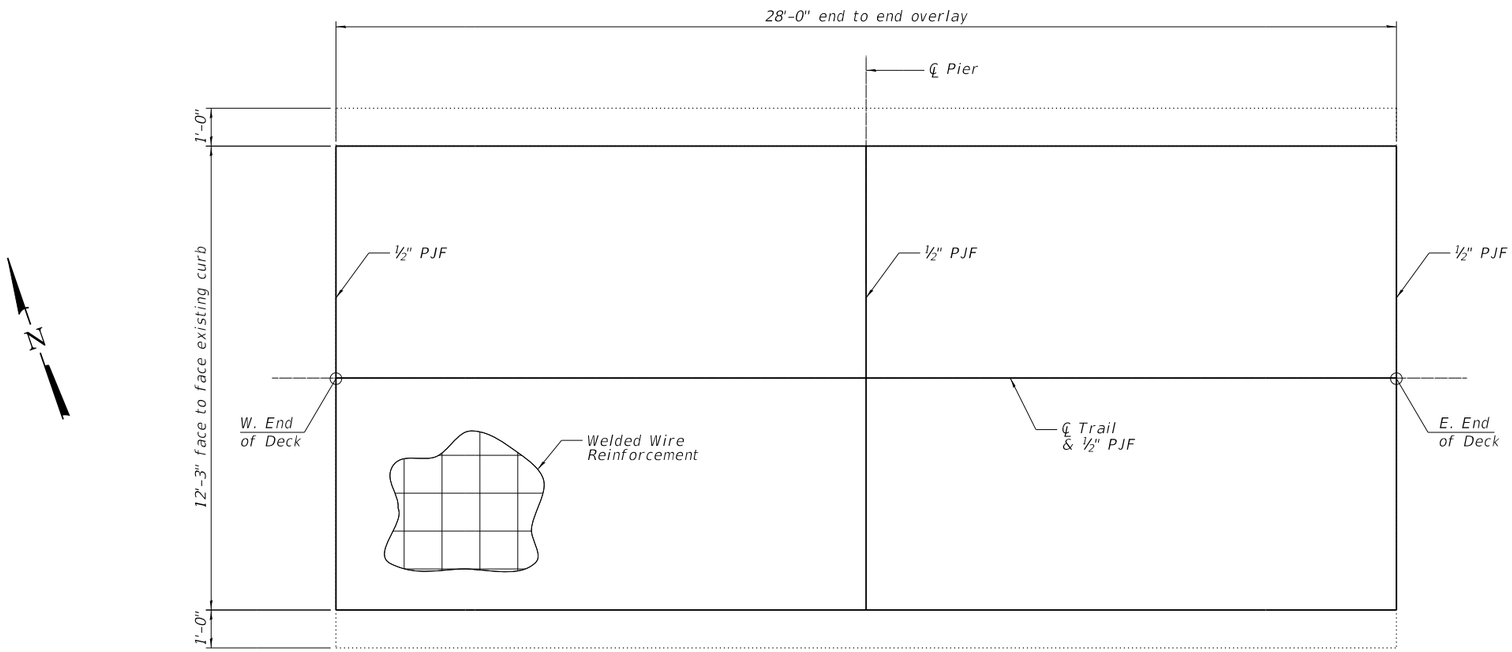
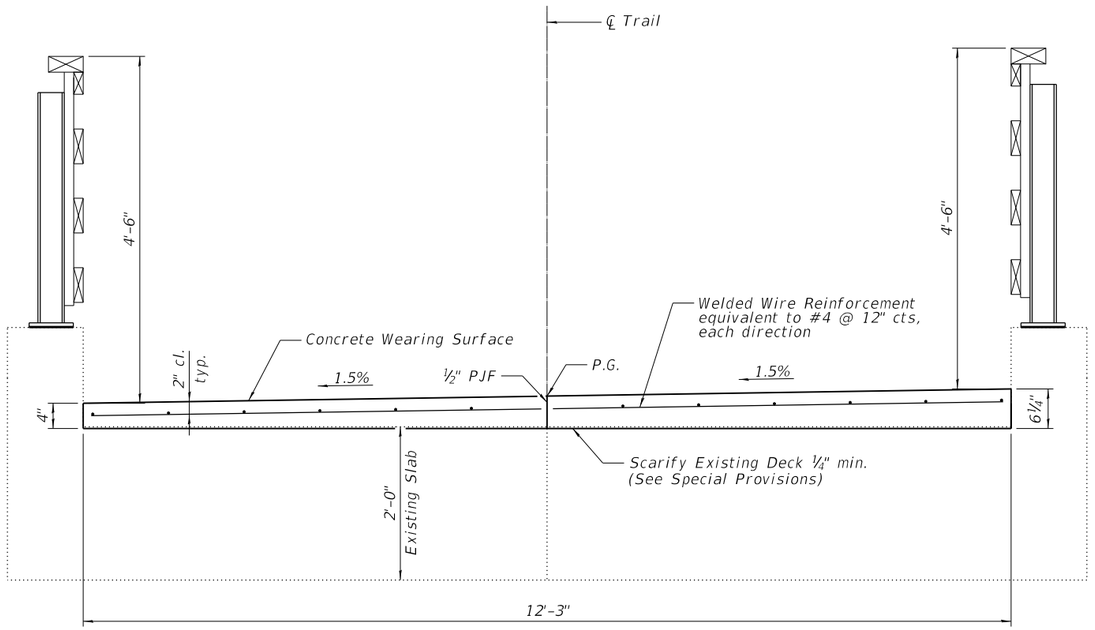
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			



PLAN

Note:
Cost of PJF and Welded Wire Reinforcement shall be included in the price bid for Concrete Wearing Surface (Variable Depth).
If a lap is required in the Welded Wire Reinforcement, it shall be a min. of the cross wire spacing plus 2".



CROSS SECTION
(Looking East)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
Concrete Wearing Surface (Variable Depth)	Sq. Yd.	38.1

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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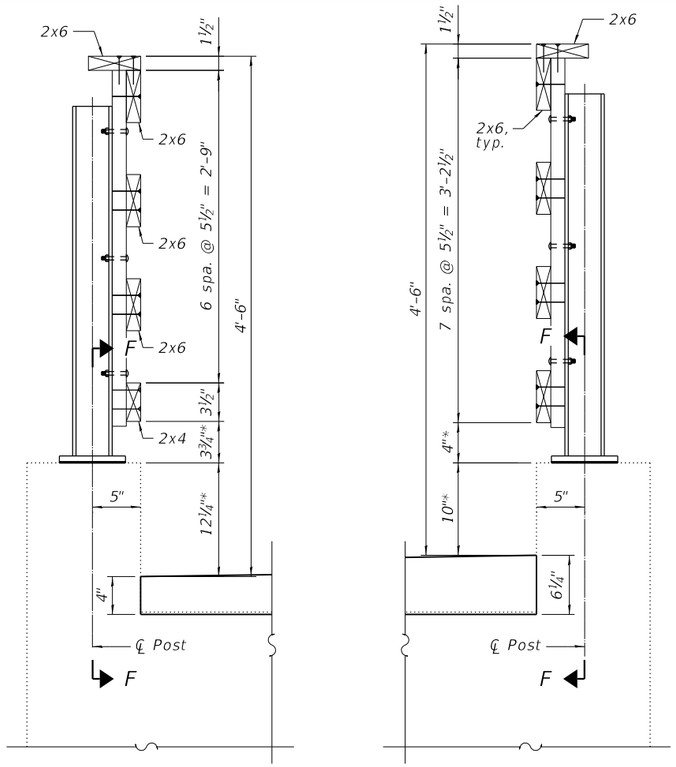
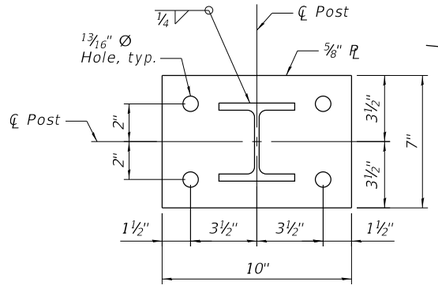
	ILLINOIS FED. AID PROJECT			

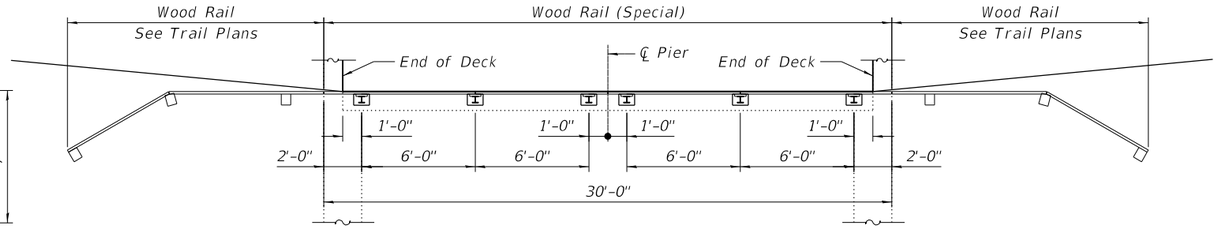


SECTION THRU RAILING

* Dimensions based on ¼" min. scarification. May be adjusted in the field as directed by the Engineer if actual amount varies.

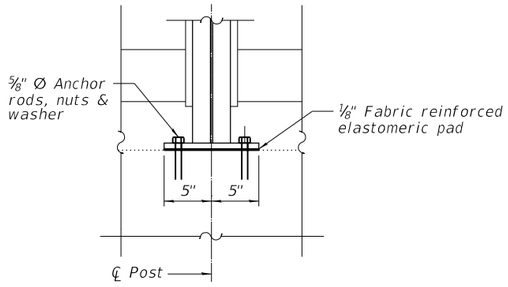


BASE PLATE



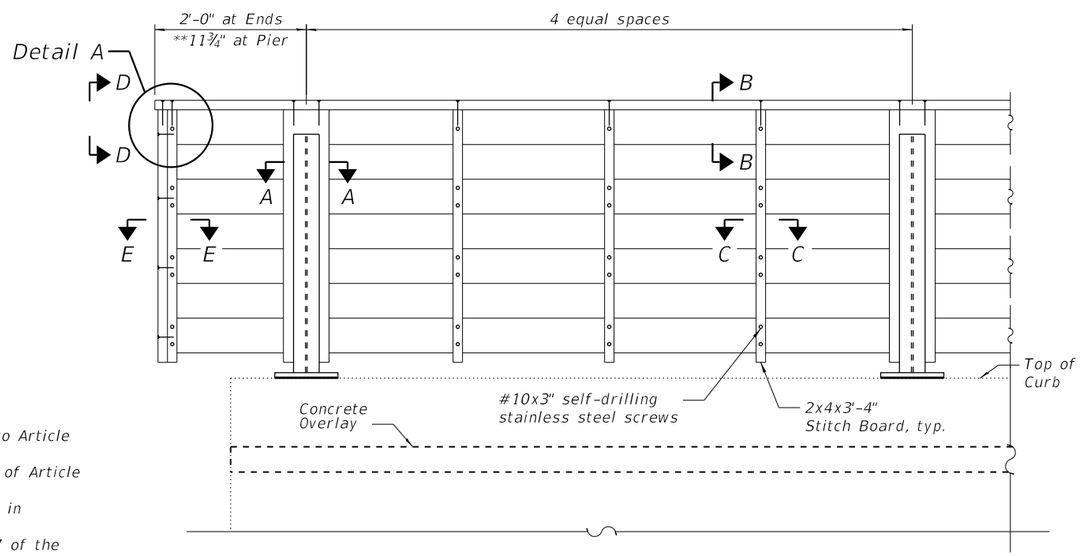
PLAN

South Curb Shown
North Curb Similar



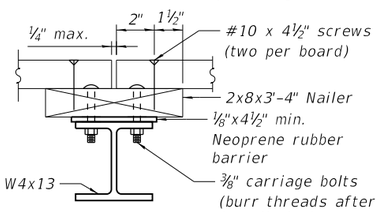
SECTION F-F

Drill and set ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment (6" min.) shall be according to the manufacturer's specifications.

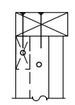


RAILING ELEVATION

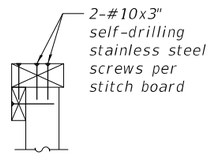
** ½" Gap in rails at Pier



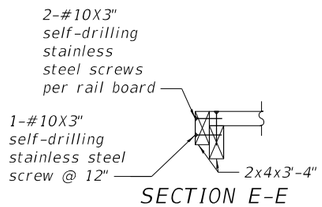
SECTION A-A



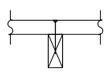
SECTION D-D



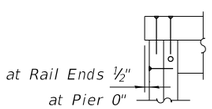
SECTION B-B



SECTION E-E



SECTION C-C



DETAIL A

Dimensions based on ¼" min. scarification. May be adjusted in the field as directed by the Engineer if actual amount varies.

NOTES:

1. Carriage bolts and screws shall be Stainless Steel according to Article 1006.29(d) of the Standard Specifications.
2. Neoprene rubber barrier shall meet the material requirements of Article 1052.02 (a) of the Standard Specfications.
3. Anchor bolts, nuts and washers shall be hot dipped galvanized in accordance with ASTM F 2329.
4. Wood Rail construction shall be in accordance with Section 507 of the Standard Specification except as modified by these plans.
5. Submit pressure treatment type and retention level prior to ordering timber. Pressure treatment shall be one of the following:
   a. MCA with a minimum retention level of 0.23
   b. ACQ with a minimum retention level of 0.60
6. Pressure treated lumber shall not contact any metal except stainless steel fasteners.
7. Screws shall be driven such that boards are tightly clamped. Where screw threads in the top board push the boards apart screws shall be backed out and re-driven until the boards are tightly clamped. If re-driving does not tightly clamp boards other methods such as pre-drilling top boards shall be used.
8. Rail boards shall only terminate at Posts as shown in Section A-A. Rail boards shall be continuous over the end posts and posts on either side of ℄ Pier. Terminate as shown in the Railing Elevation.
9. Holes for anchor bolts may be drilled through existing reinforcement.
10. Cost of furnishing and installing anchor bolts, fabricating and installing posts, and furnishing and installing timber, including all fasteners and neoprene barrier shall be included in the cost of Wood Rail (Special). This work will be measured for payment in place in feet. The length measured will be the overall length along the top longitudinal railing member through all posts and gaps.

MATERIALS

W Shapes - AASHTO M270 Grade 50W
Plates - AASHTO M270 Grade 50W
Anchor Bolts - F1554 Grade 36
Welds - E70XX Electrodes
Timber - No. 1 Southern Pine (Pressure Treated)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
Wood Rail (Special)	Foot	60

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TWM ENGINEERING GEOSPATIAL SERVICES

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CITY OF CARBONDALE

WOOD RAIL (SPECIAL) DETAILS

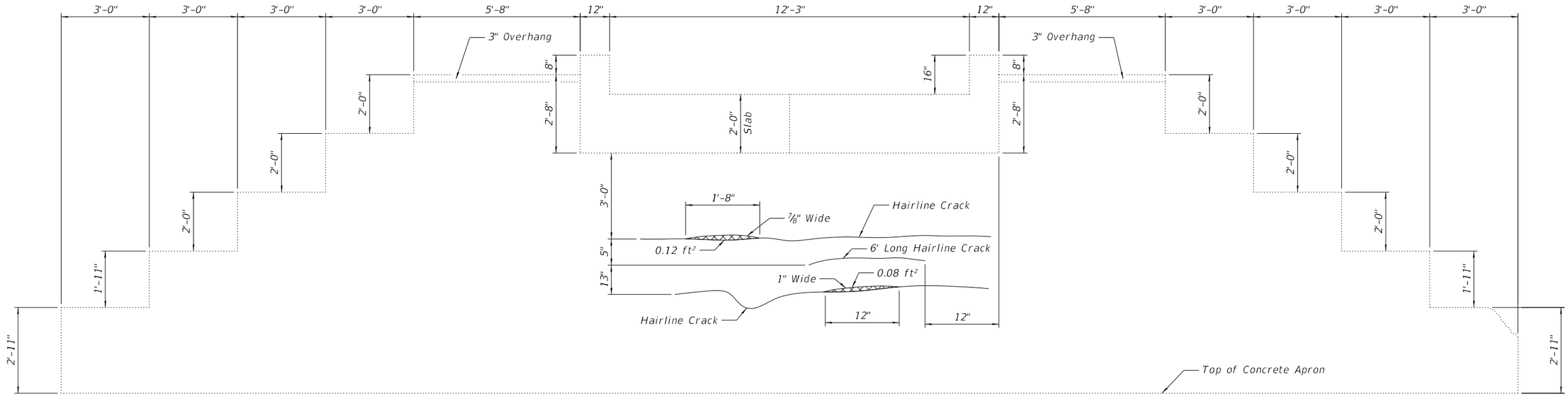
SHEET 3 OF 5 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	18
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

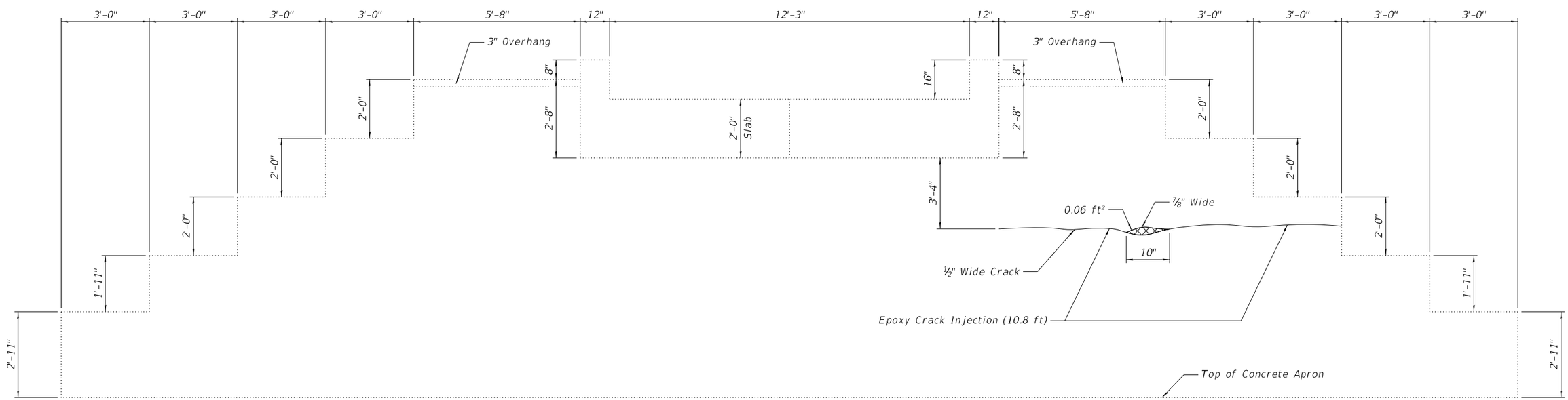
KEY

Crack

Polymer Modified Portland Cement Mortar



ELEVATION - EAST ABUTMENT



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CITY OF CARBONDALE

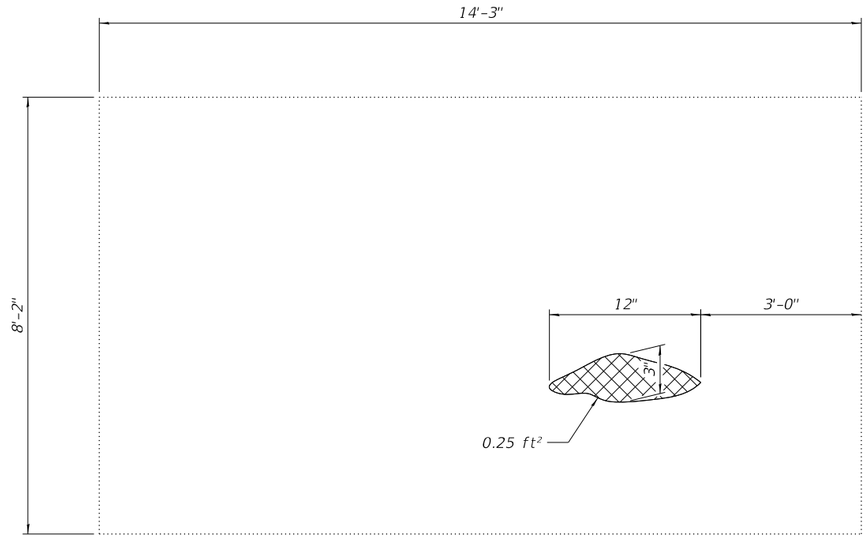
ABUTMENT REPAIRS

SHEET 4 OF 5 SHEETS

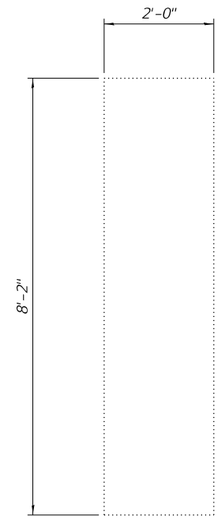
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	19
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

KEY

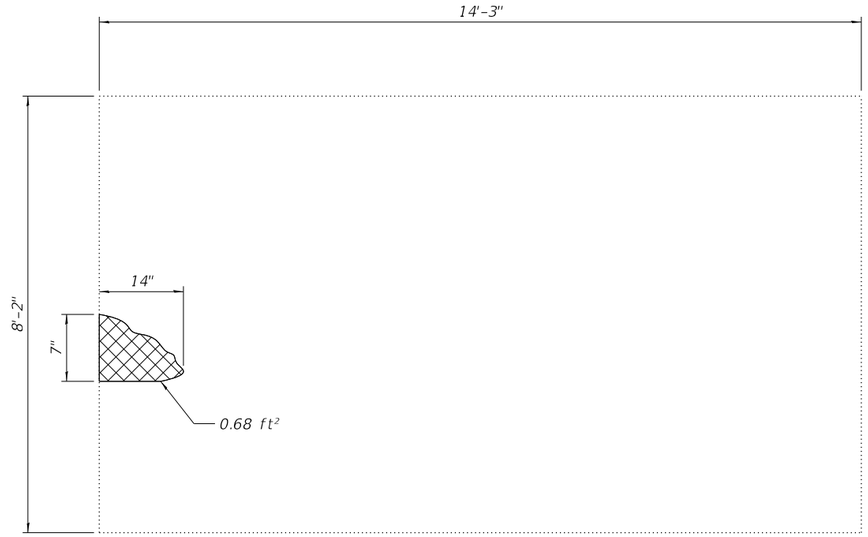
Polymer Modified Portland Cement Mortar



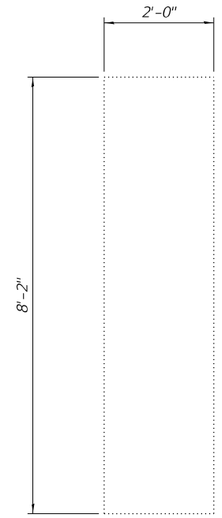
ELEVATION - EAST PIER FACE



ELEVATION - NORTH PIER FACE



ELEVATION - WEST PIER FACE



ELEVATION - SOUTH PIER FACE

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ENGINEERING & GEOSPATIAL SERVICES

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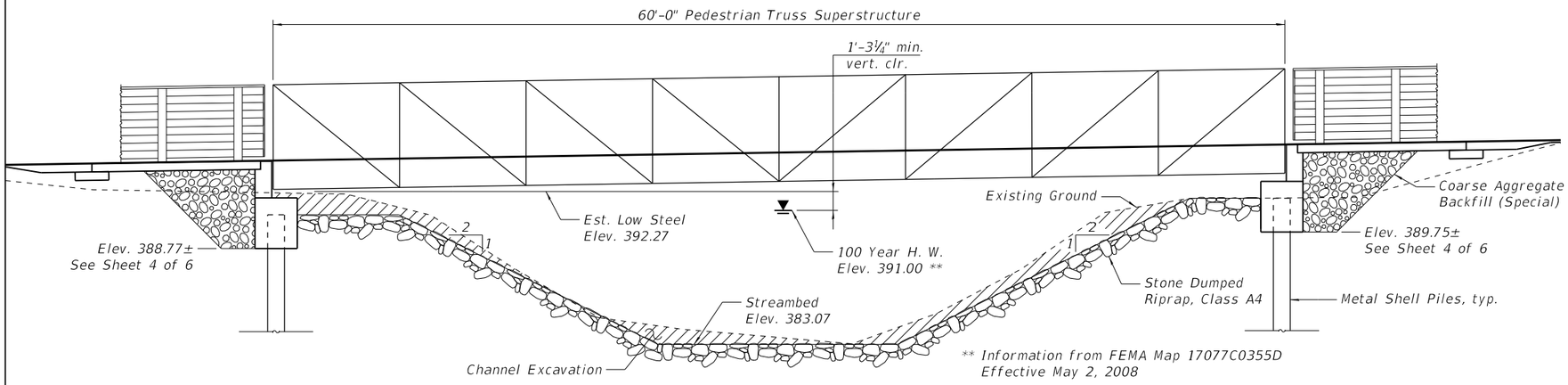
CITY OF CARBONDALE

PIER REPAIRS

SHEET 5 OF 5 SHEETS

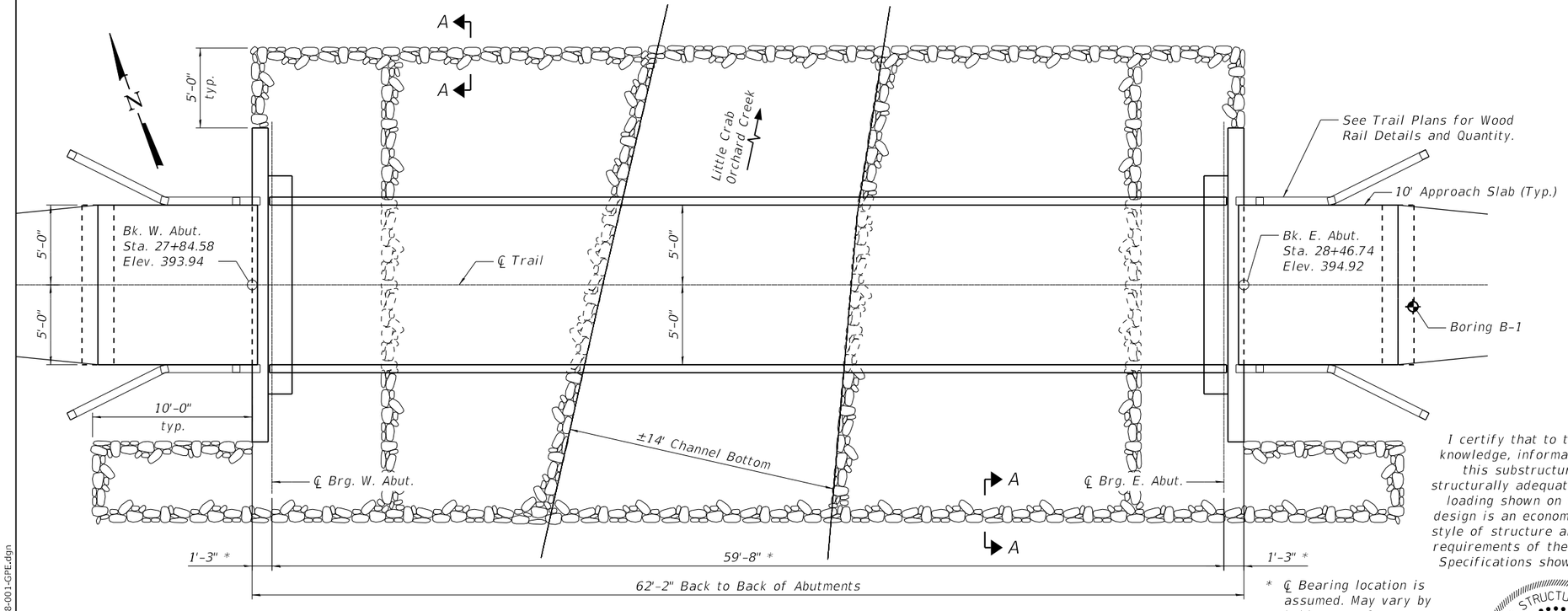
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	20
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

Benchmark: Control Point #402 – Iron Rod with Control Cap. Station 27+86.56, Offset 13.23 ft. Lt., Elevation NAVD '88 = 391.77
Existing Structure: Existing Railroad Bridge Superstructure has been removed. Remnants of the existing substructure may be present below grade.



** Information from FEMA Map 17077C0355D Effective May 2, 2008

ELEVATION



PLAN

(See Sheet 2 of 6 for Section A-A)

WATERWAY INFORMATION **

Drainage Area = 8.91 sq mi Low Grade Elev. 393.12 @ Sta. 27+33.26

Flood	Freq. Yr.	Q C.F.S.	Opening Ft² Exist.	Opening Ft² Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10								
Design									
Base	100	4640	---	238	391.00				
Overtopping									
Max. Calc.	500			284	392.00				

DESIGN SCOUR ELEVATION TABLE

Design Scour Elev. (ft.)	W. Abut.	E. Abut.
	388.77	389.75

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Bridge Approach Slab Details
4. Abutment Details
5. Metal Shell Pile Details
6. Boring Log

DESIGN SPECIFICATIONS

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges 2015 Interims

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS

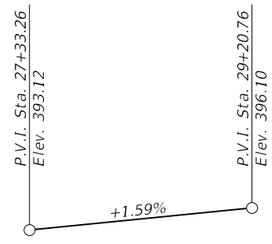
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

LOADING

Pedestrian Live Load = 90 psf
Vehicle Live Load = AASHTO H5

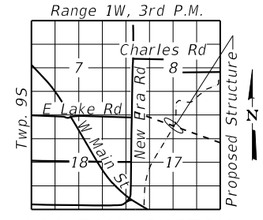
SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.357
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.837
Soil Site Class = D



PROFILE GRADE

(along ℄ Northwest Pedestrian and Bicycle Path)



LOCATION SKETCH

I certify that to the best of my knowledge, information and belief, this substructure design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the AASHTO Design Specifications shown on the plans.

LICENSED STRUCTURAL ENGINEER
ANGELA L. NEMSKY
081-005503
STATE OF ILLINOIS

Angela L. Nemsky
1/27/2022
EXPIRES 11/30/2022

* ℄ Bearing location is assumed. May vary by bridge manufacturer.

GENERAL PLAN & ELEVATION NORTHWEST PEDESTRIAN AND BICYCLE PATH OVER LITTLE CRAB ORCHARD CREEK SECTION 17-00136-00-BT JACKSON COUNTY STA. 28+15.66

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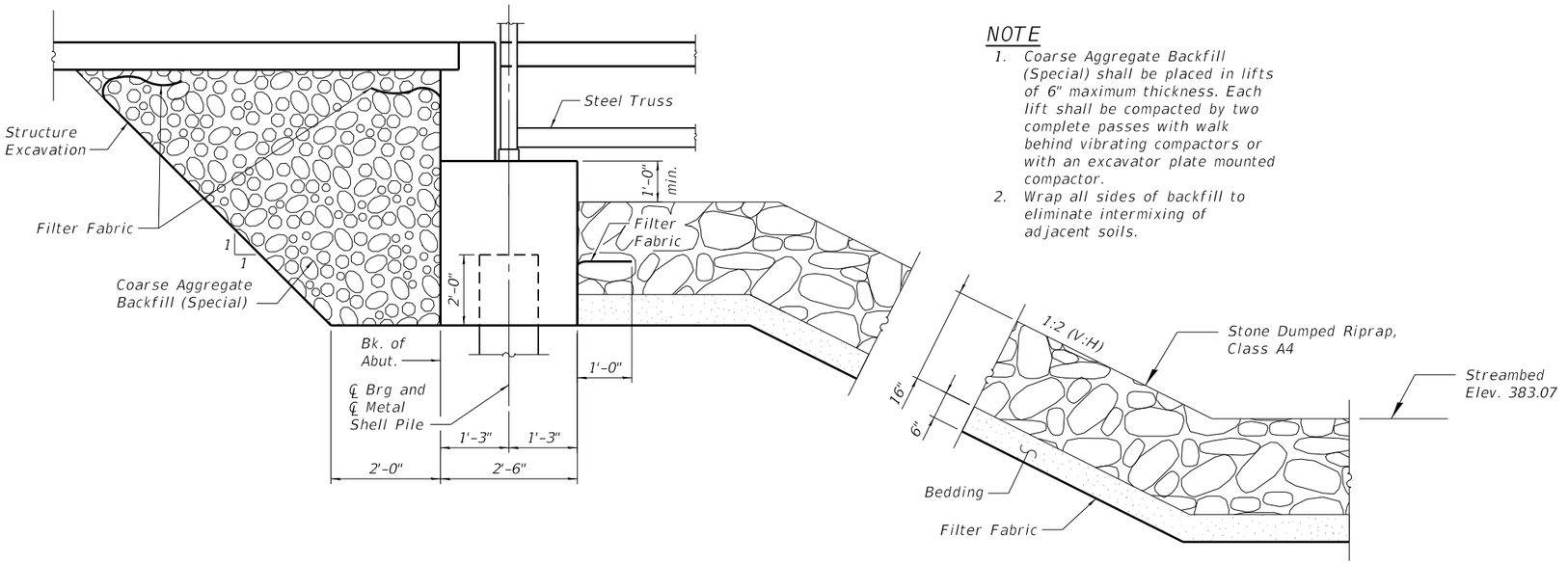
CARBONDALE All Ways Open

CITY OF CARBONDALE

GENERAL PLAN & ELEVATION

SHEET 1 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	21
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



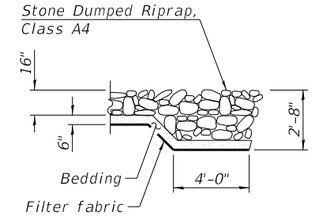
SECTION THROUGH ABUTMENT

NOTE

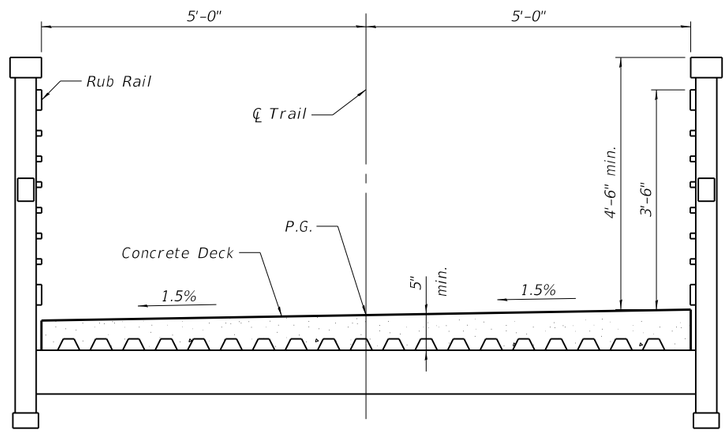
1. Coarse Aggregate Backfill (Special) shall be placed in lifts of 6" maximum thickness. Each lift shall be compacted by two complete passes with walk behind vibrating compactors or with an excavator plate mounted compactor.
2. Wrap all sides of backfill to eliminate intermixing of adjacent soils.

GENERAL NOTES

1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
2. For approach details, see Bridge Approach Slab Details, sheet 3.
3. The Pedestrian Truss Superstructure shall meet the requirements of the Special Provisions and the design plans.
   Bearings: The bearings shall be specified by the bridge manufacturer.
   Camber: The truss shall be cambered for Dead Load only.
4. The truss manufacturer shall provide the reinforced concrete deck design. The concrete deck shall utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after the truss is set. Cost included with Pedestrian Truss Superstructure.



SECTION A-A



SECTION THROUGH BRIDGE

(Looking East)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Pedestrian Truss Superstructure	Sq. Ft.	622		622
Structure Excavation	Cu. Yd.		30	30
Concrete Structures	Cu. Yd.	3.7	12.7	16.4
Reinforcement Bars	Pound	800	1140	1940
Furnishing Metal Shell Piles, 12"x0.250"	Foot		81	81
Test Pile Metal Shells	Each		1	1
Driving Piles	Foot		81	81
Coarse Aggregate Backfill (Special)	Cu. Yd.		36	36
Stone Dumped Riprap, Class A4	Sq. Yd.		219	219
Filter Fabric	Sq. Yd.		219	219
Channel Excavation	Cu. Yd.		162	162

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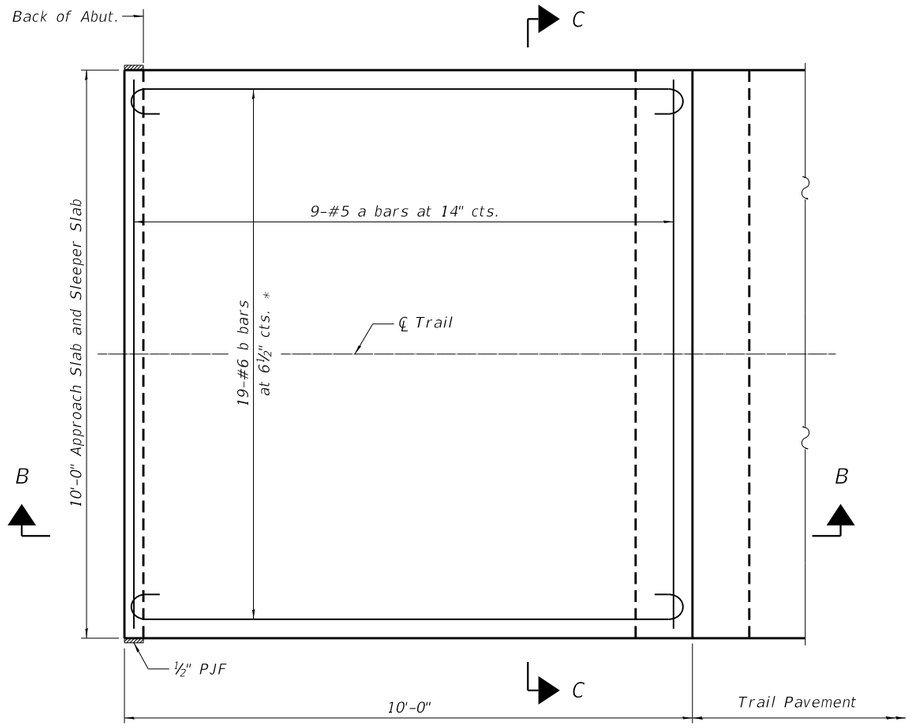
CARBONDALE All Ways Open

CITY OF CARBONDALE

GENERAL DATA

SHEET 2 OF 6 SHEETS

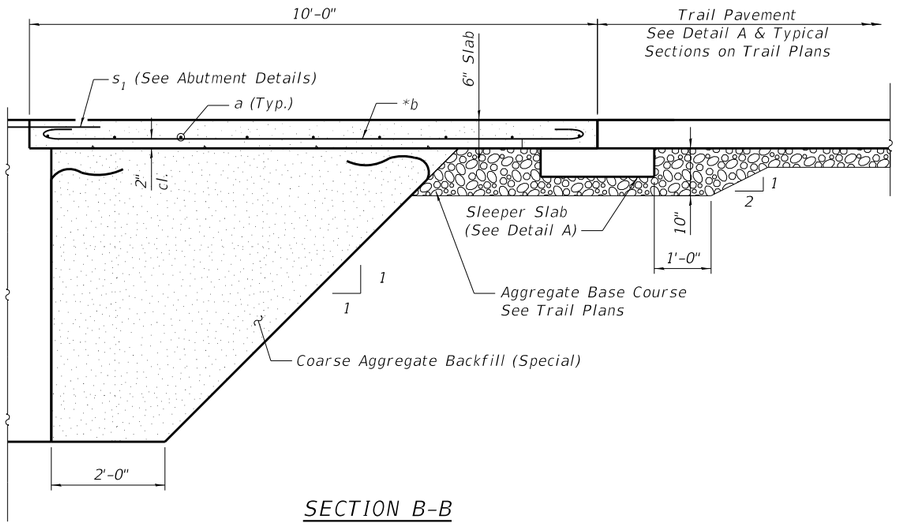
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	22
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



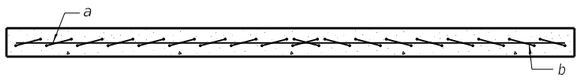
PLAN

(East Appr. Slab Shown; West Similar)

* Tilt #6 b bars as required to maintain clearance.



SECTION B-B



SECTION C-C

WEST SLEEPER SLAB - NORTH EDGE

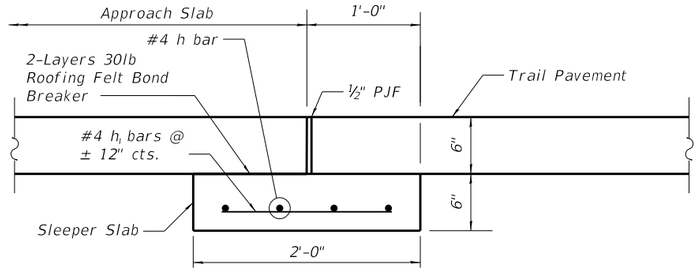
Location	Station	Offset	Top of Slab Elevations
W. End of W. Sleeper Slab	27+73.91	-5.00	393.19
E. End of W. Sleeper Slab	27+75.91	-5.00	393.22

WEST SLEEPER SLAB - ℄ TRAIL & P.G.

Location	Station	Offset	Top of Slab Elevations
W. End of W. Sleeper Slab	27+73.91	0.00	393.27
E. End of W. Sleeper Slab	27+75.91	0.00	393.30

WEST SLEEPER SLAB - SOUTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of W. Sleeper Slab	27+73.91	5.00	393.34
E. End of W. Sleeper Slab	27+75.91	5.00	393.37



DETAIL A

WEST APPROACH SLAB - NORTH EDGE

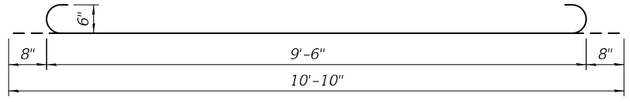
Location	Station	Offset	Top of Slab Elevations
W. End of W. Appr. Slab	27+74.91	-5.00	393.71
E. End of W. Appr. Slab	27+84.91	-5.00	393.87

WEST APPROACH SLAB - ℄ TRAIL & P.G.

Location	Station	Offset	Top of Slab Elevations
W. End of W. Appr. Slab	27+74.91	0.00	393.78
E. End of W. Appr. Slab	27+84.91	0.00	393.94

WEST APPROACH SLAB - SOUTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of W. Appr. Slab	27+74.91	5.00	393.86
E. End of W. Appr. Slab	27+84.91	5.00	394.02



BAR b

EAST SLEEPER SLAB - NORTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of E. Sleeper Slab	28+55.41	-5.00	394.49
E. End of E. Sleeper Slab	28+57.41	-5.00	394.52

EAST SLEEPER SLAB - ℄ TRAIL & P.G.

Location	Station	Offset	Top of Slab Elevations
W. End of E. Sleeper Slab	28+55.41	0.00	394.56
E. End of E. Sleeper Slab	28+57.41	0.00	394.59

EAST SLEEPER SLAB - SOUTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of E. Sleeper Slab	28+55.41	5.00	394.64
E. End of E. Sleeper Slab	28+57.41	5.00	394.67

BILL OF MATERIAL (2 SLEEPER SLABS)

Bar	No.	Size	Length	Shape
h	8	#4	9'-8"	——
h_1	22	#4	1'-8"	——
Concrete Structures			Cu. Yd.	0.7
Reinforcement Bars			Pound	80

EAST APPROACH SLAB - NORTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of E. Appr. Slab	28+46.41	-5.00	394.84
E. End of E. Appr. Slab	28+56.41	-5.00	395.00

EAST APPROACH SLAB - ℄ TRAIL & P.G.

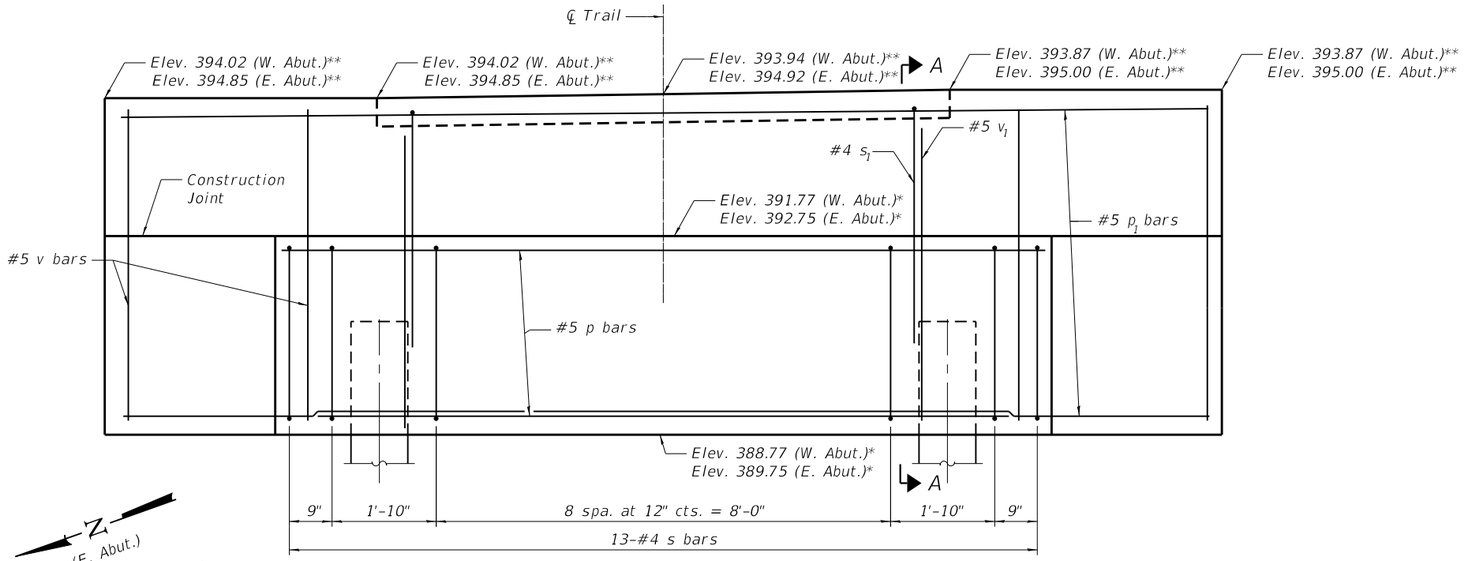
Location	Station	Offset	Top of Slab Elevations
W. End of E. Appr. Slab	28+46.41	0.00	394.92
E. End of E. Appr. Slab	28+56.41	0.00	395.08

EAST APPROACH SLAB - SOUTH EDGE

Location	Station	Offset	Top of Slab Elevations
W. End of E. Appr. Slab	28+46.41	5.00	394.99
E. End of E. Appr. Slab	28+56.41	5.00	395.15

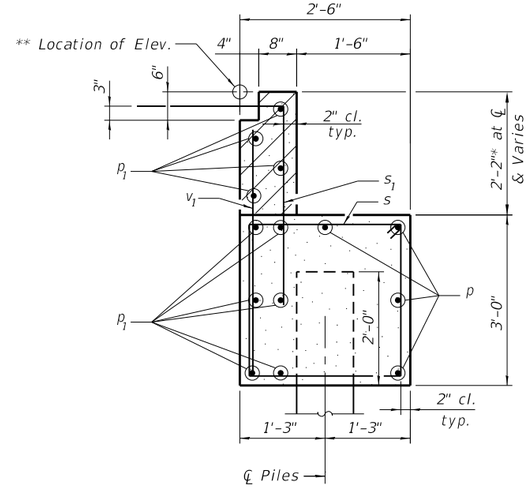
BILL OF MATERIAL (2 APPROACH SLABS)

Bar	No.	Size	Length	Shape
a	18	#5	9'-8"	——
b	38	#6	10'-10"	⊂⊃
Concrete Structures			Cu. Yd.	3.7
Reinforcement Bars			Pound	800



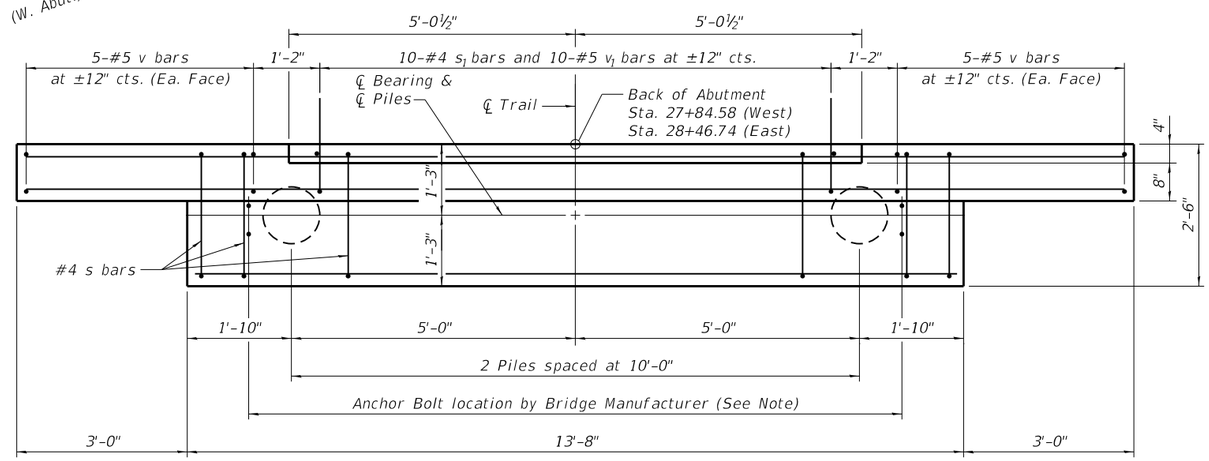
ABUTMENT ELEVATION

East Abutment shown. West Abutment similar.



SECTION A-A

** Indicated dimensions and elevations shall be coordinated with requirements of bridge fabricator. Estimated Quantites and bar dimensions based on dimensions shown.*



ABUTMENT PLAN

ASSUMED TRUSS LOADS

		P (lbs)	H (lbs)	L (lbs)
Dead Load		12,525		
Uniform Live Load		13,500		
Vehicle Load		5,000		
Wind Uplift 20 psf	Windward	-4,875		
	Leeward	-1,625		
Wind		±1,925	5,995	
Thermal				1,880

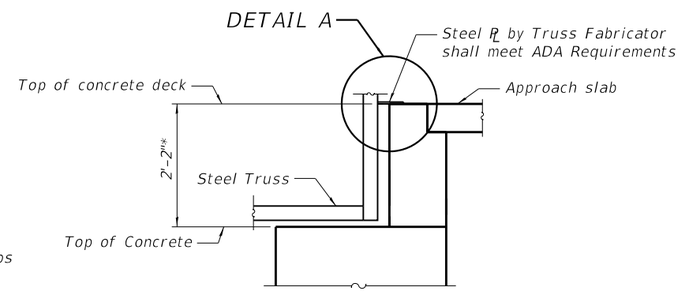
"+" - Downward Load
"-" - Upward Load
"P" - Vertical Load Each Base Plate (4 per Truss)
"H" - Horizontal Load Each Abutment (2 per Truss)
"L" - Longitudinal Load Each Base Plate (4 per Truss)
Loads are unfactored

BILL OF MATERIAL
2 ABUTMENTS

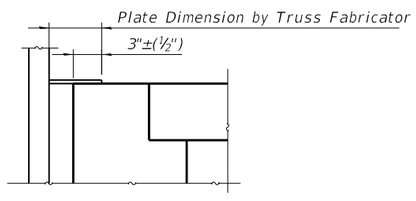
Bar	No.	Size	Length	Shape
p	8	#5	13'-4"	——
p_1	20	#5	19'-4"	——
s	26	#4	10'-5"	□
s_1	20	#4	6'-2"	⌐
v	40	#5	4'-9"	——
v_1	20	#5	4'-3"	——
Structure Excavation		Cu. Yd.	30	
Concrete Structures		Cu. Yd.	12.0	
Reinforcement Bars		Pound	1060	
Furnishing Metal Shell Piles, 12"x0.250"		Foot	81	
Driving Piles		Foot	81	
Test Pile, Metal Shells		Each	1	

Notes:
Hatched area above construction joint to be poured after truss has been erected.

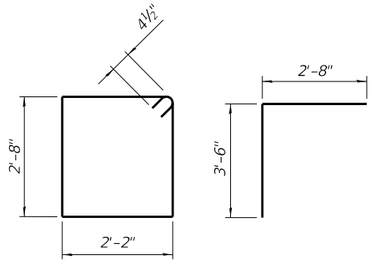
Spacing of s Bars at each end of pile cap should be modified to avoid anchor bolts. Size, number, and location of anchor bolts are to be based on the approved shop drawings for the Pedestrian Truss Superstructure.



APPROACH DETAIL



DETAIL A

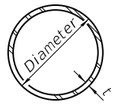


BAR s

BAR s_1

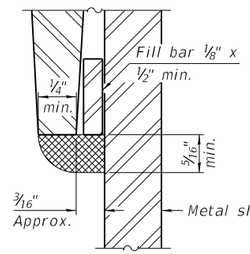
PILE DATA

Type: Metal Shell
Nominal Required Bearing: 119 kips
Factored Resistance Available: 65 kips
Est. Length: 27'
No. Test Piles: 1 at West Abutment
No. Production Piles: 1 at West Abutment
2 at East Abutment

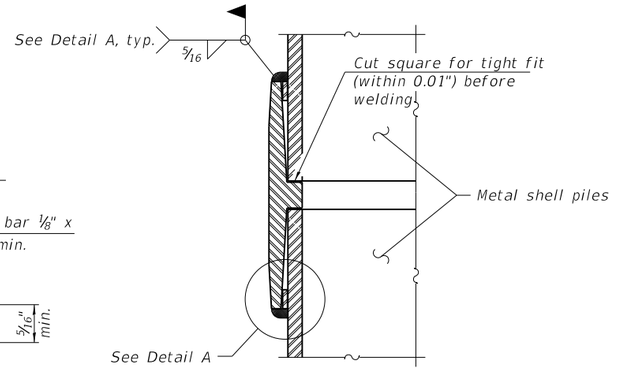


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

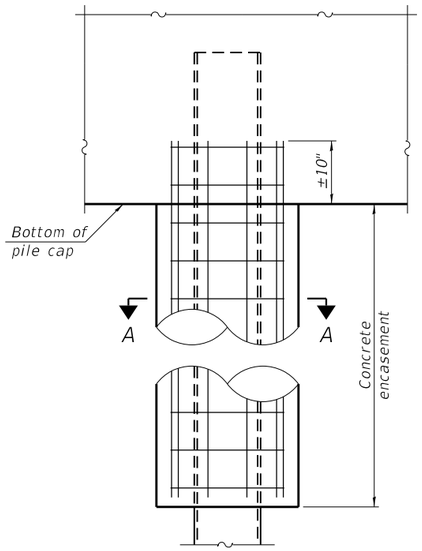


DETAIL A



WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



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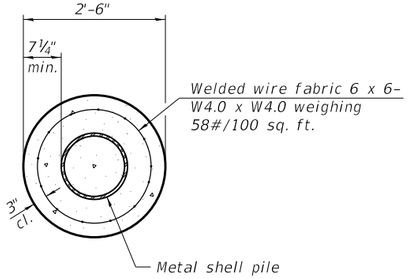
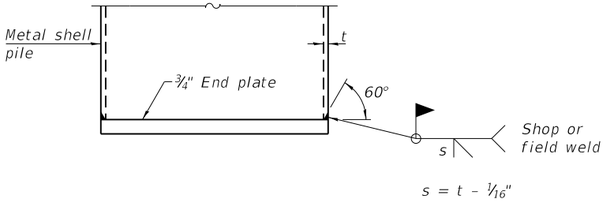


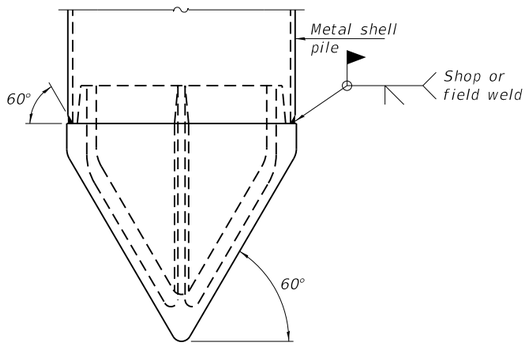
SECTION A–A

INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



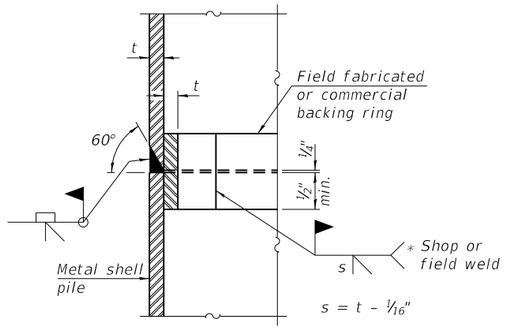
s = t – 1/16"

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

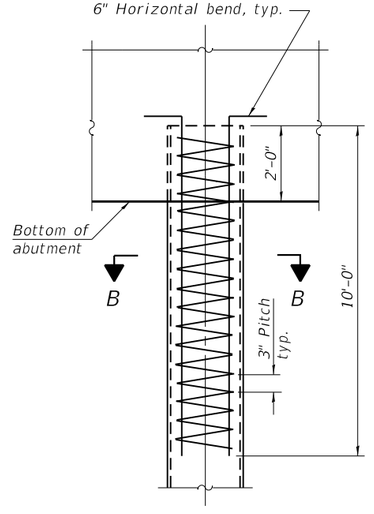
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



s = t – 1/16"

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



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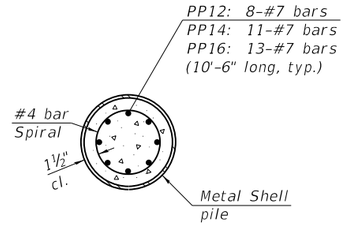

SECTION B-B

REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 8-11-2017

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CITY OF CARBONDALE

METAL SHELL PILE DETAILS

SHEET 5 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	25
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-19010
Section:
Structure:
County: Jackson

Bridge Northwest Trail Bridge
Station

Date: 2/4/2019
Bored by: D. Plucker
Checked By: T. Holcomb

Boring No: 1
Station:
Offset:

Surface Water Elev.
Ground Water Elev.
During Drilling 376.5'
Upon Completion Plugged @ 381.5'

Elevation	N	Qu tsf	w %
Ground Surface 396.5			
0			
4" Crushed Stone			
Gray Mottled Brown Silty CLAY (A-6)			
	26	--	32
-5	7	--	23
387.5			
Gray Clayey SILT (A-4)			
-10	3	0.7S	30
	3	0.4S	30
-15	3	1.1S	28
379.5			
Gray Silty CLAY (A-6)	3	0.6S	36
-20	4	2.1S	26
375.5			
Gray Silty CLAY to CLAY (A-6)	9	2.2S	28
silty clay to clay (continued)			
-25	9	2.0S	28
	8	2.1S	40
368.0			
Brown Mottled Gray Silty CLAY to CLAY (A-6)			
-30	9	2.0S	36
-35	8	2.1S	31
358.0			
Gray Mottled Brown Silty CLAY to CLAY (A-6)			
-40	7	1.9S	34
	8	1.2S	36

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
393 Wood Road 618-529-5262
Carbondale, Il. 62901 618-457-8991 fax

Bridge Foundation Boring Log

Project: H-19010
Section:
Structure:
County: Jackson

Bridge Northwest Trail Bridge
Station

Date: 2/4/2019
Bored by: D. Plucker
Checked By: T. Holcomb

Boring No: 1
Station:
Offset:

Surface Water Elev.
Ground Water Elev.
During Drilling 376.5'
Upon Completion Plugged @ 381.5'

Elevation	N	Qu tsf	w %
silty clay to clay (continued)			
45			
347.5 -50	9	1.0B	30
End of Boring @ -49.0'			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

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CARBONDALE All Ways Open

CITY OF CARBONDALE

BORING B-1

SHEET 6 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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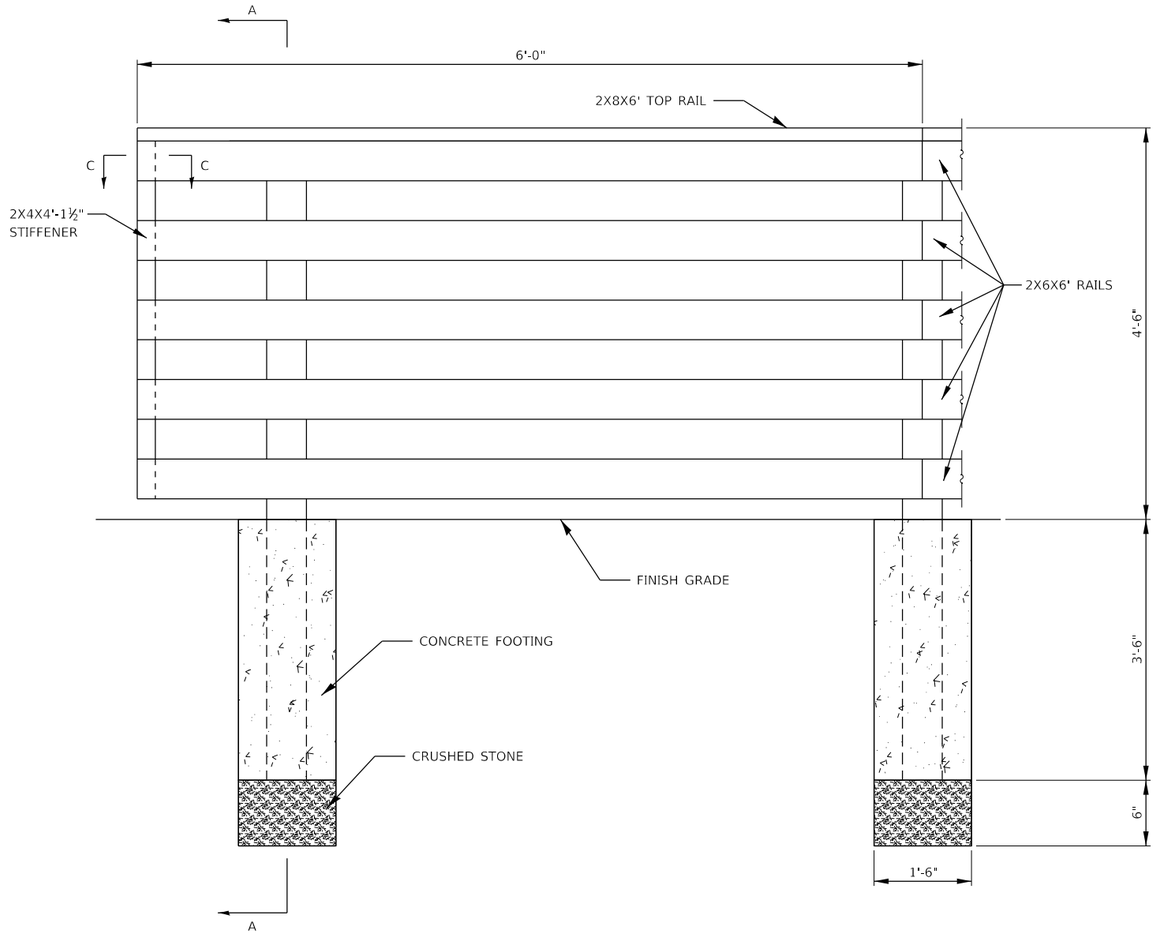
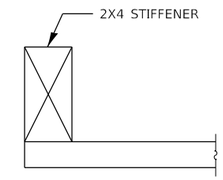
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

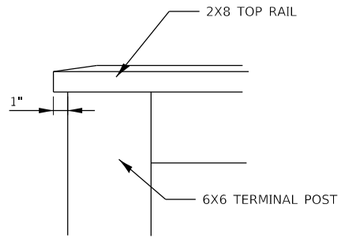
WOOD RAIL DETAIL



VIEW B–B



SECTION C–C



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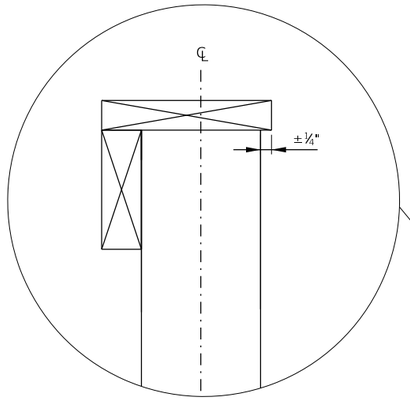
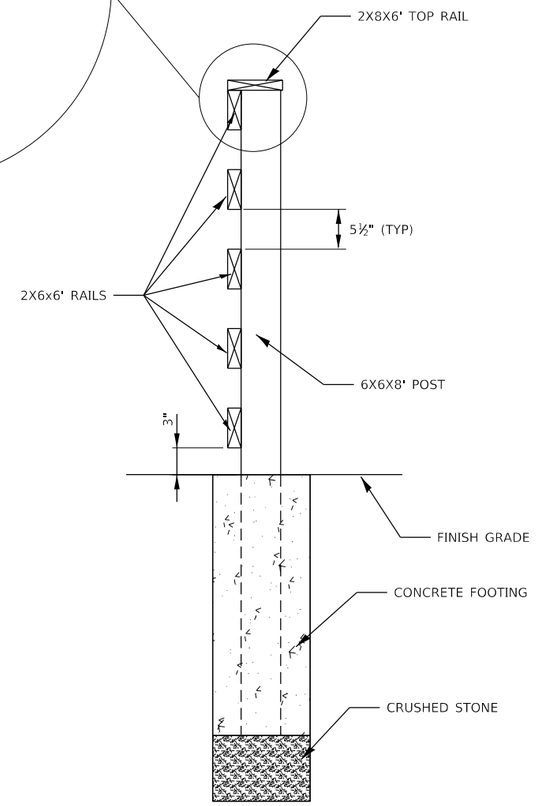
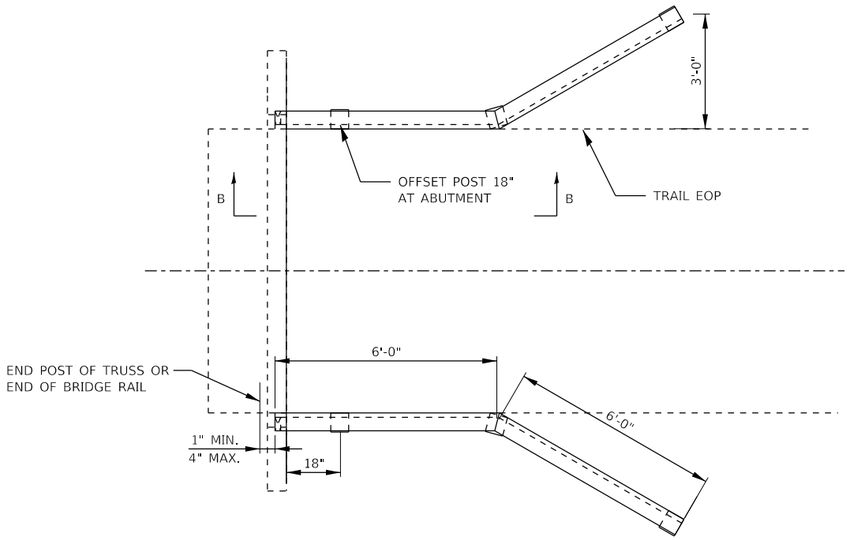




SECTION A–A



LAYOUT AT TRAIL BRIDGE

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE LAYOUT WITH ENGINEER PRIOR TO INSTALLATION.
2. ALL LUMBER SHALL BE PRESSURE TREATED NO. 1 SOUTHERN PINE.
3. ALL SCREWS SHALL BE #10 X 3".
4. ATTACH RAILS WITH 3 STAINLESS STEEL SCREWS AT EACH POST OR STIFFENER.

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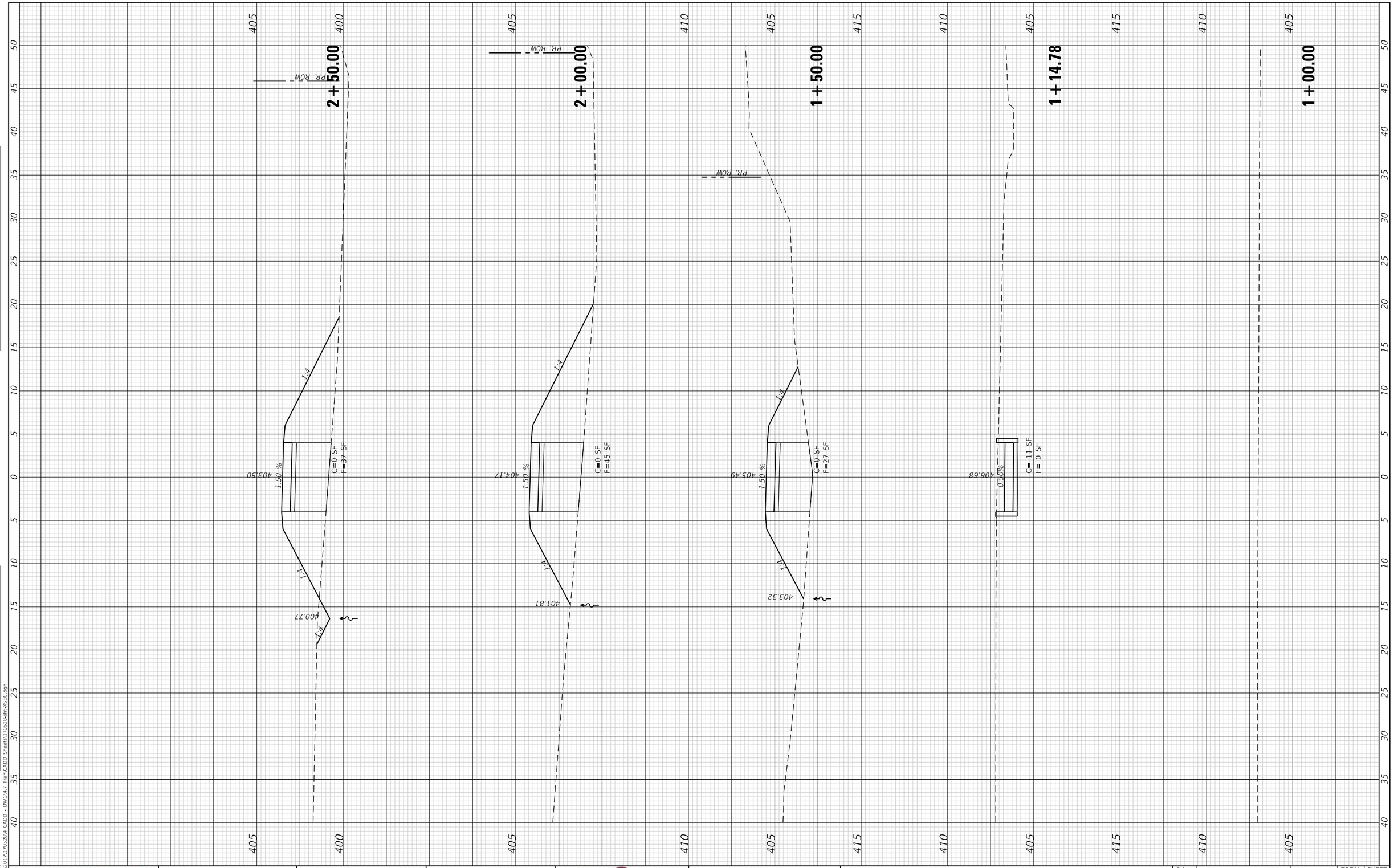
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 1 OF 24 SHEETS | STA. 1+00.00 TO STA. 2+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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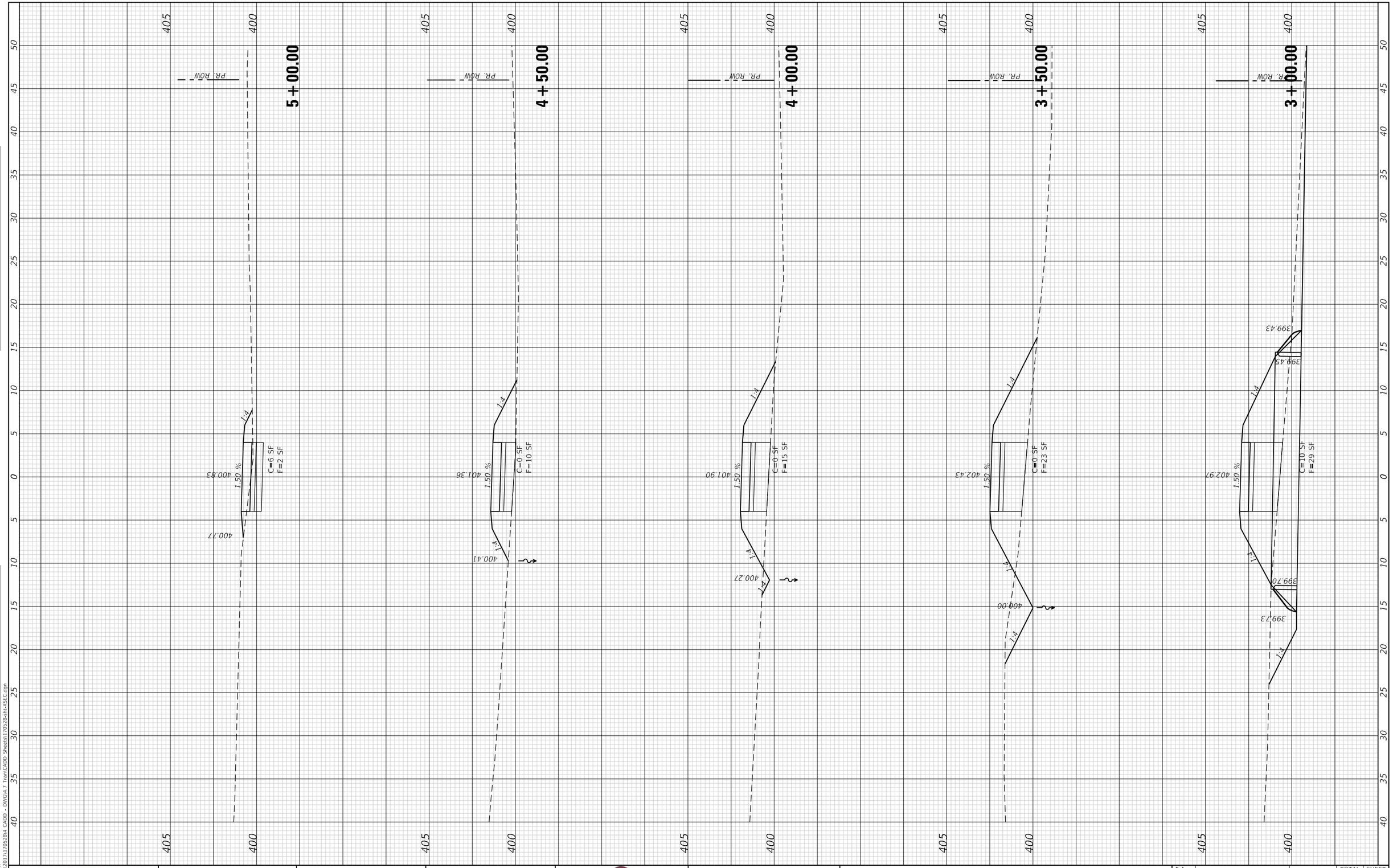
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

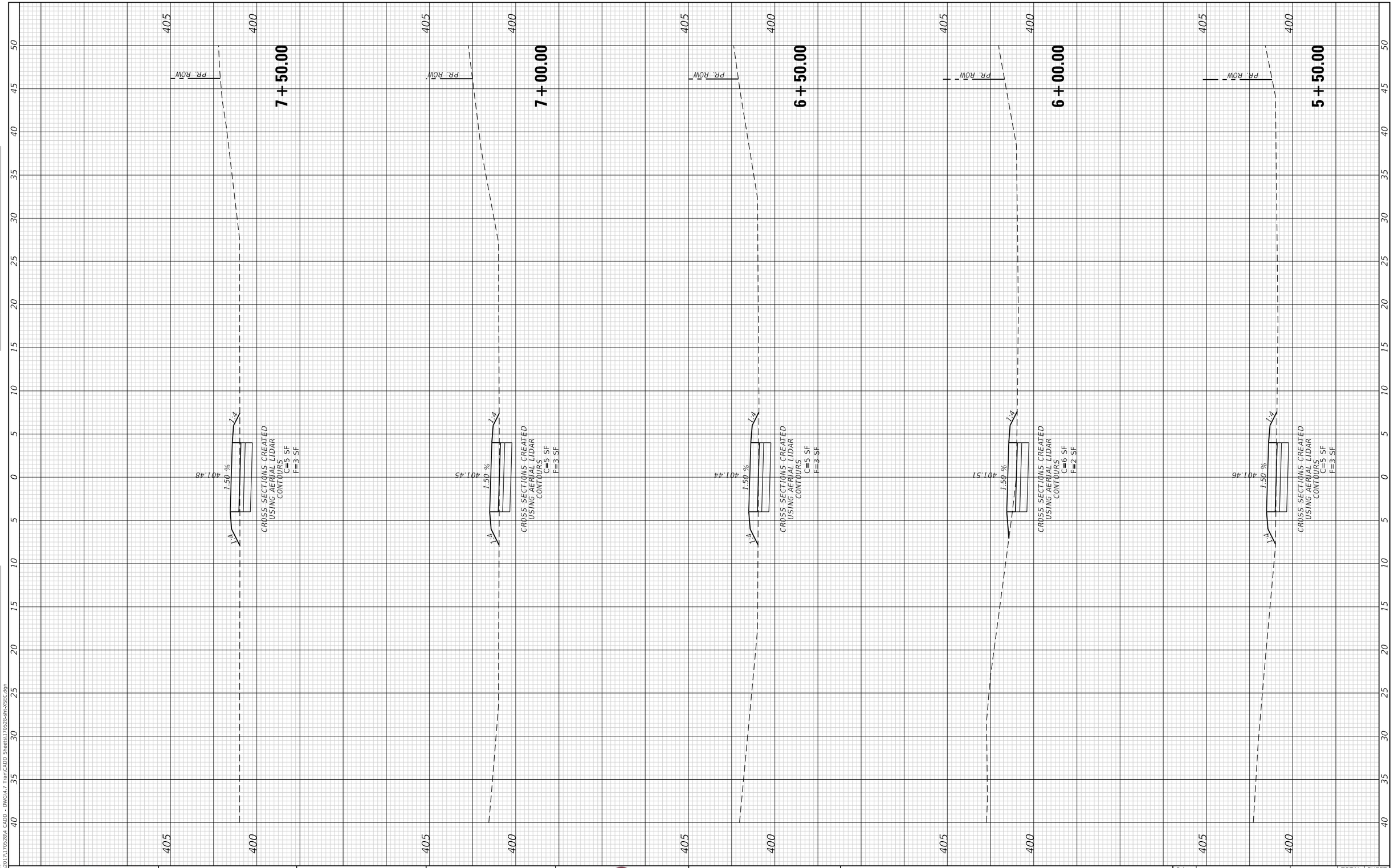
CROSS SECTIONS

SCALE: 1" = 5' | SHEET 2 OF 24 SHEETS | STA. 3+00.00 TO STA. 5+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	29
		CONTRACT NO. 99632		
		ILLINOIS	FED. AID PROJECT	

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

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



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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 3 OF 24 SHEETS | STA. 5+50.00 TO STA. 7+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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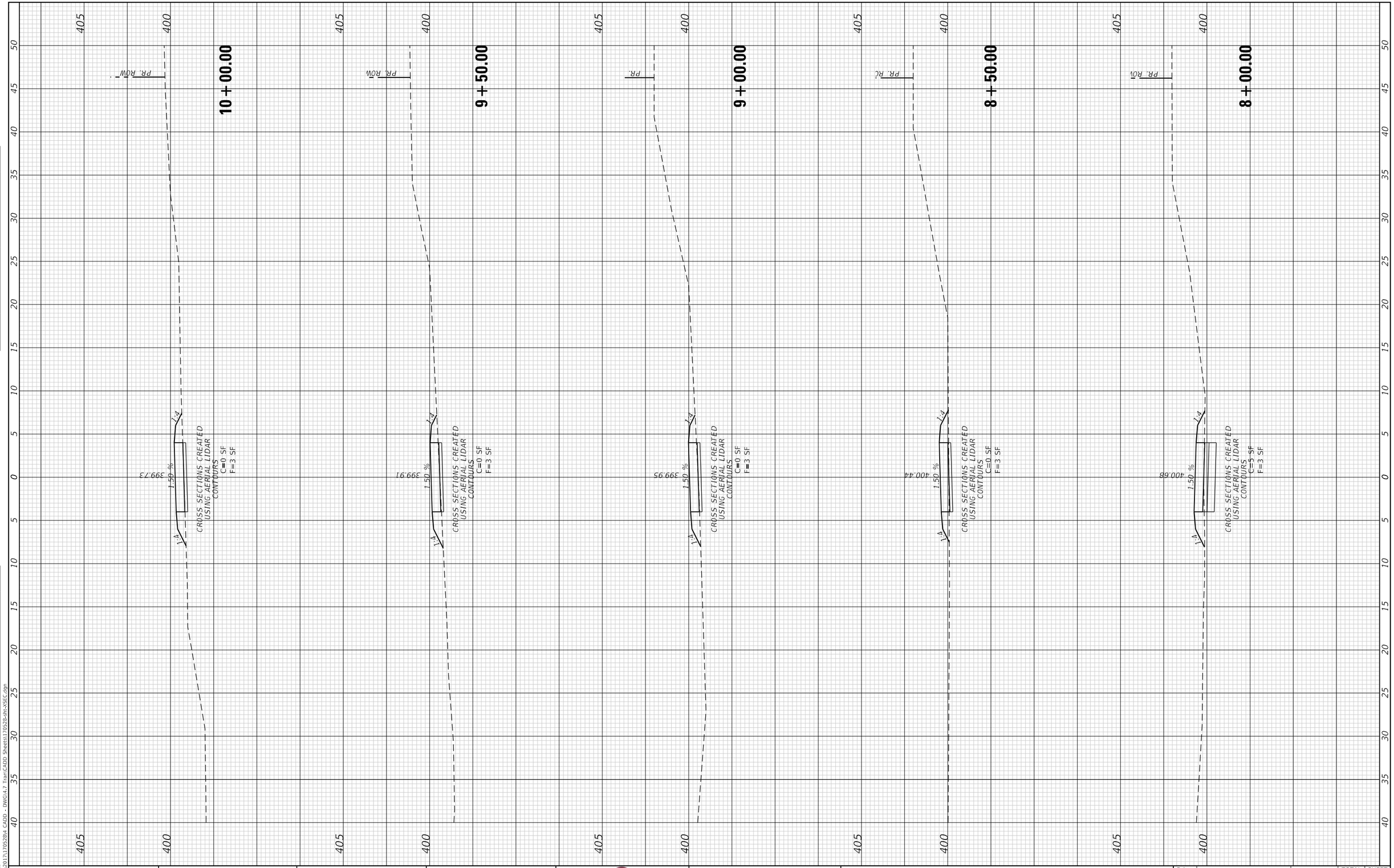
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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	AREAS CHECKED		

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PLOT DATE = 1/24/2022	DATE -	REVISED -

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 4 OF 24 SHEETS | STA. 8+00.00 TO STA. 10+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	31
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

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NOTE BOOK	SURVEYED		
NO.	PLOTTED		
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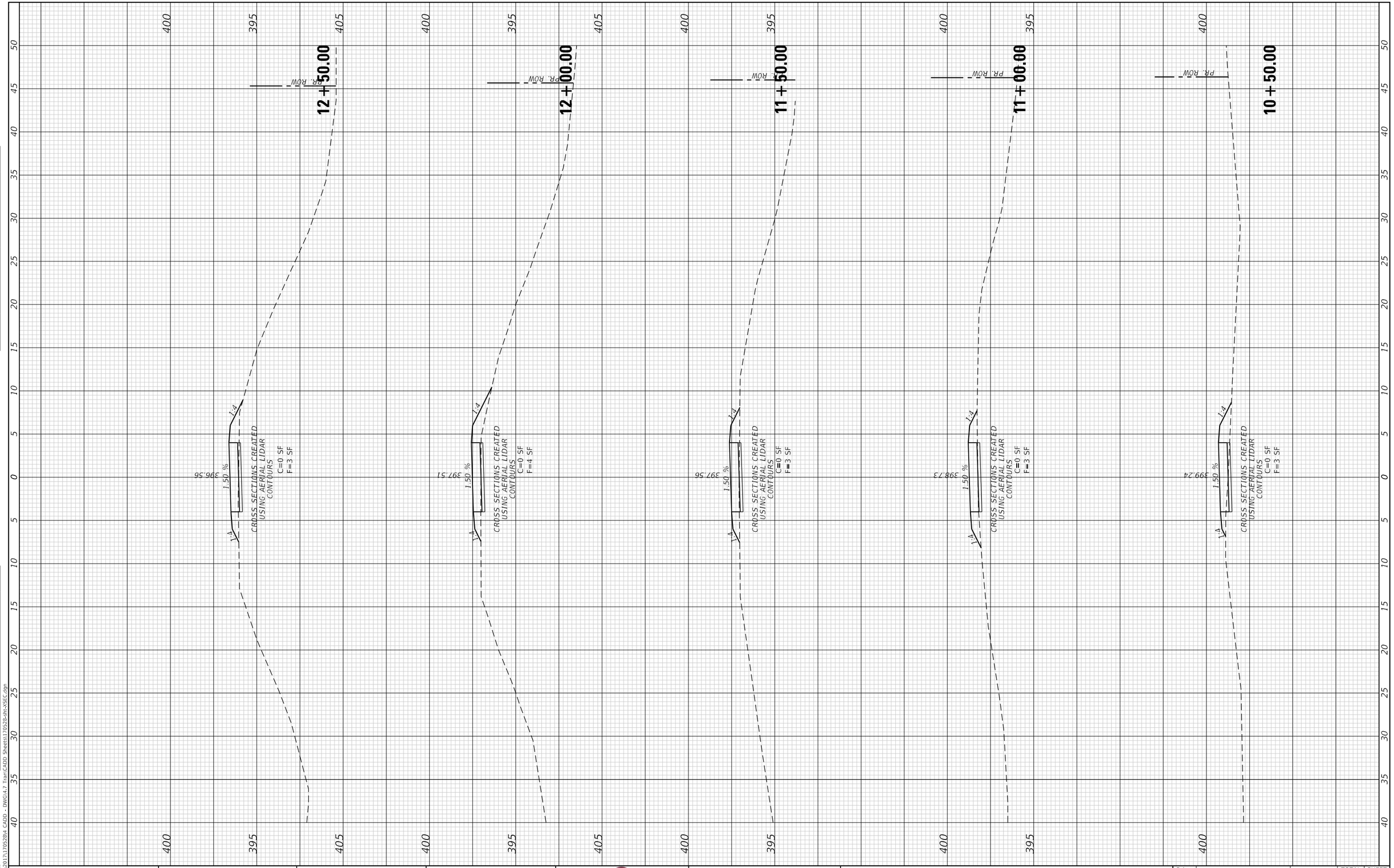
	AREAS		
	AREAS CHECKED		



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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 5 OF 24 SHEETS | STA. 10+50.00 TO STA. 12+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	32
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

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NOTE BOOK	SURVEYED		
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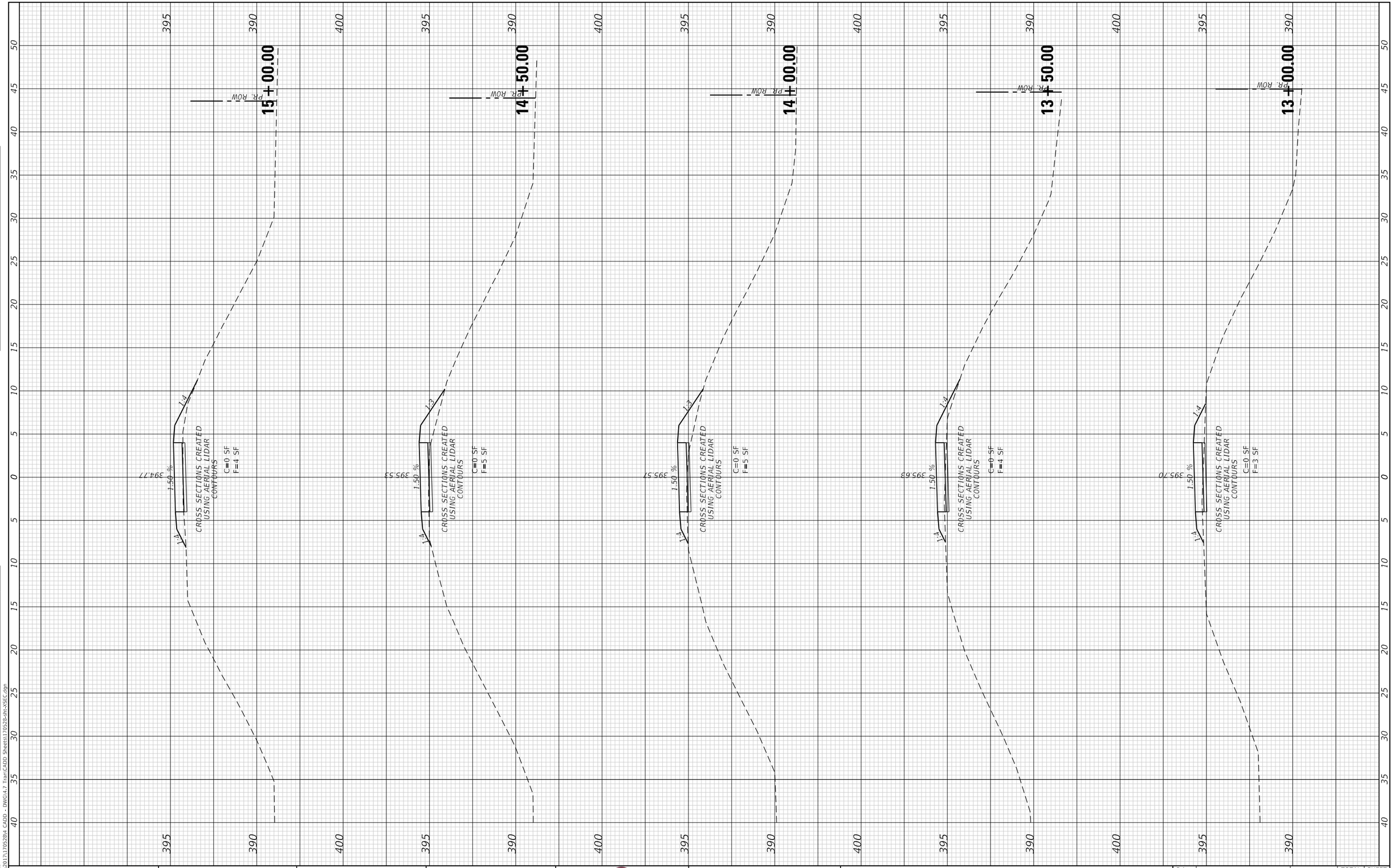

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

TWM

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 6 OF 24 SHEETS | STA. 13+00.00 TO STA. 15+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	33
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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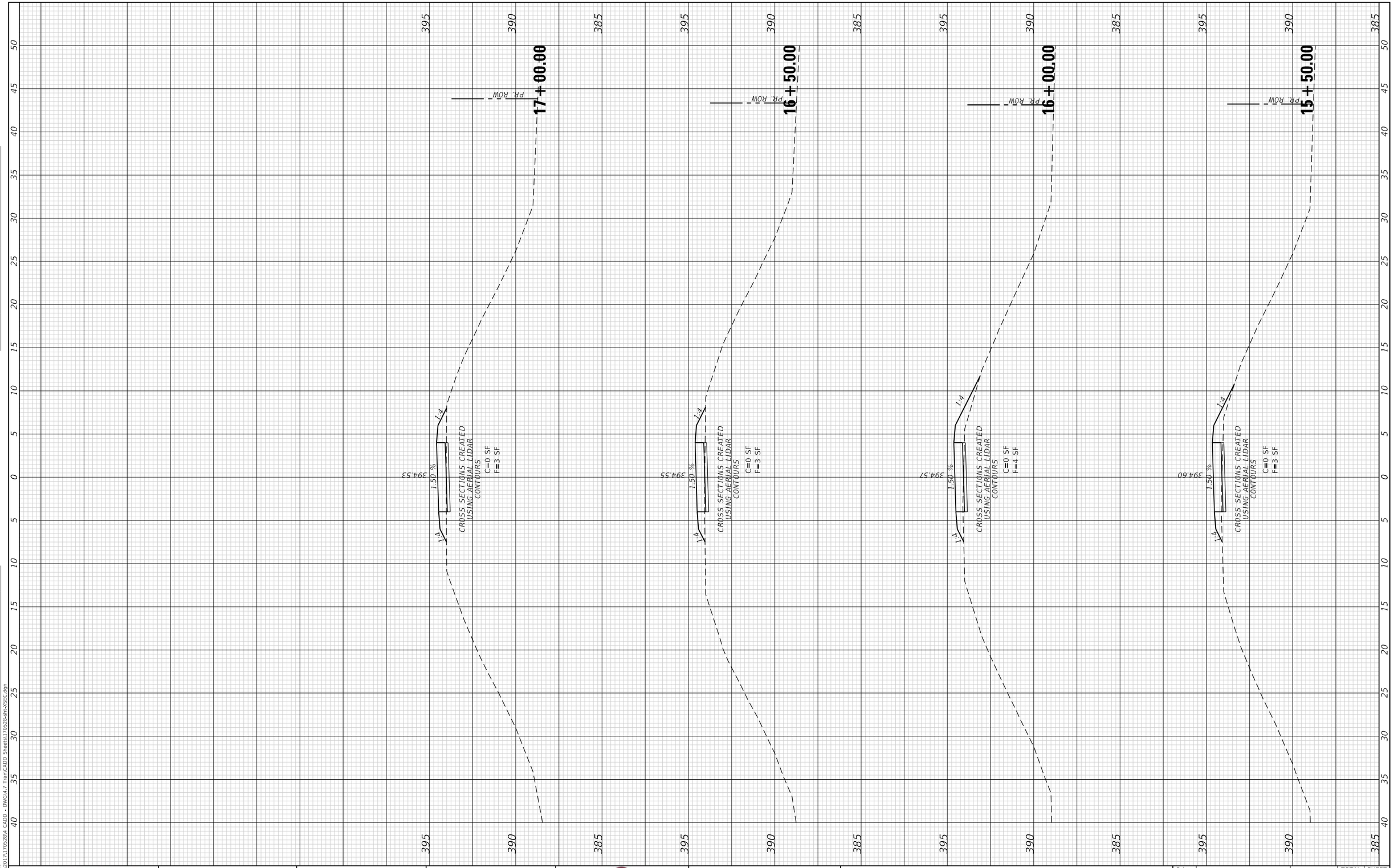

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	PLOT DATE = 1/24/2022	DATE -	REVISED -

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 7 OF 24 SHEETS | STA. 15+50.00 TO STA. 17+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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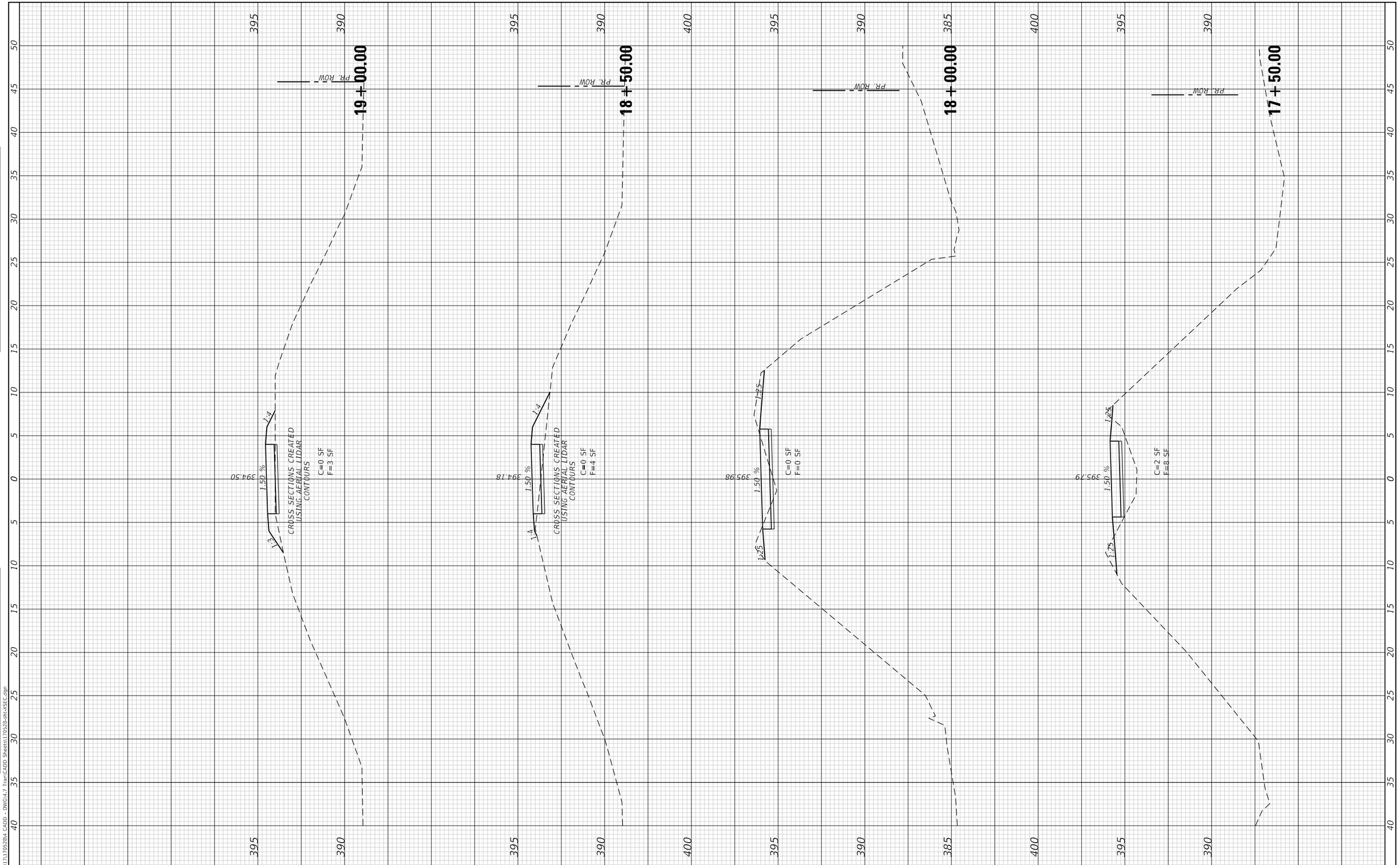
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

	BY	DATE

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

	BY	DATE



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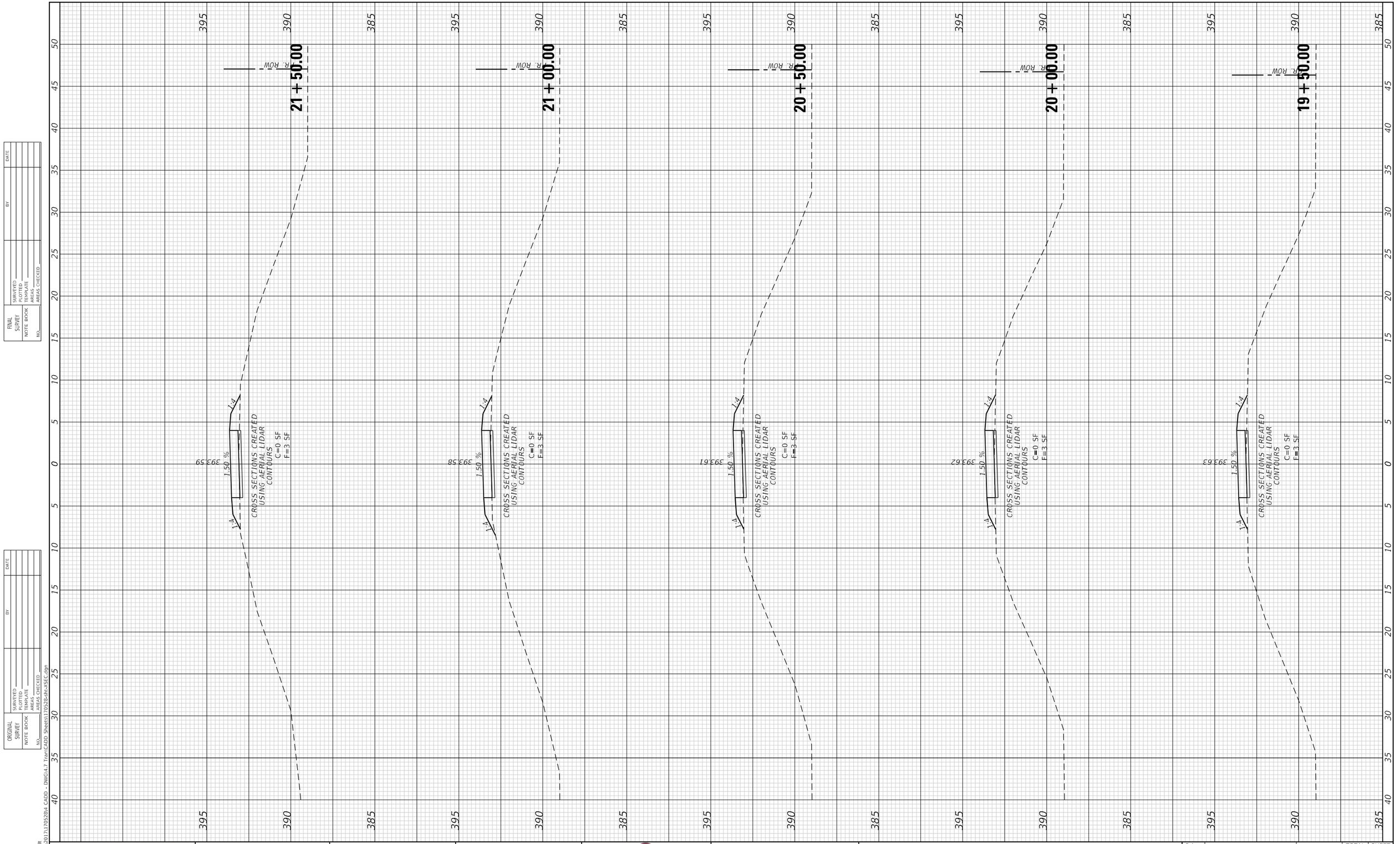
PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 1/24/2022	DATE -	REVISED -	

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 8 OF 24 SHEETS | STA. 17+50.00 TO STA. 19+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	35
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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

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

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PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -
PLOT DATE = 1/24/2022	DATE -	REVISED -

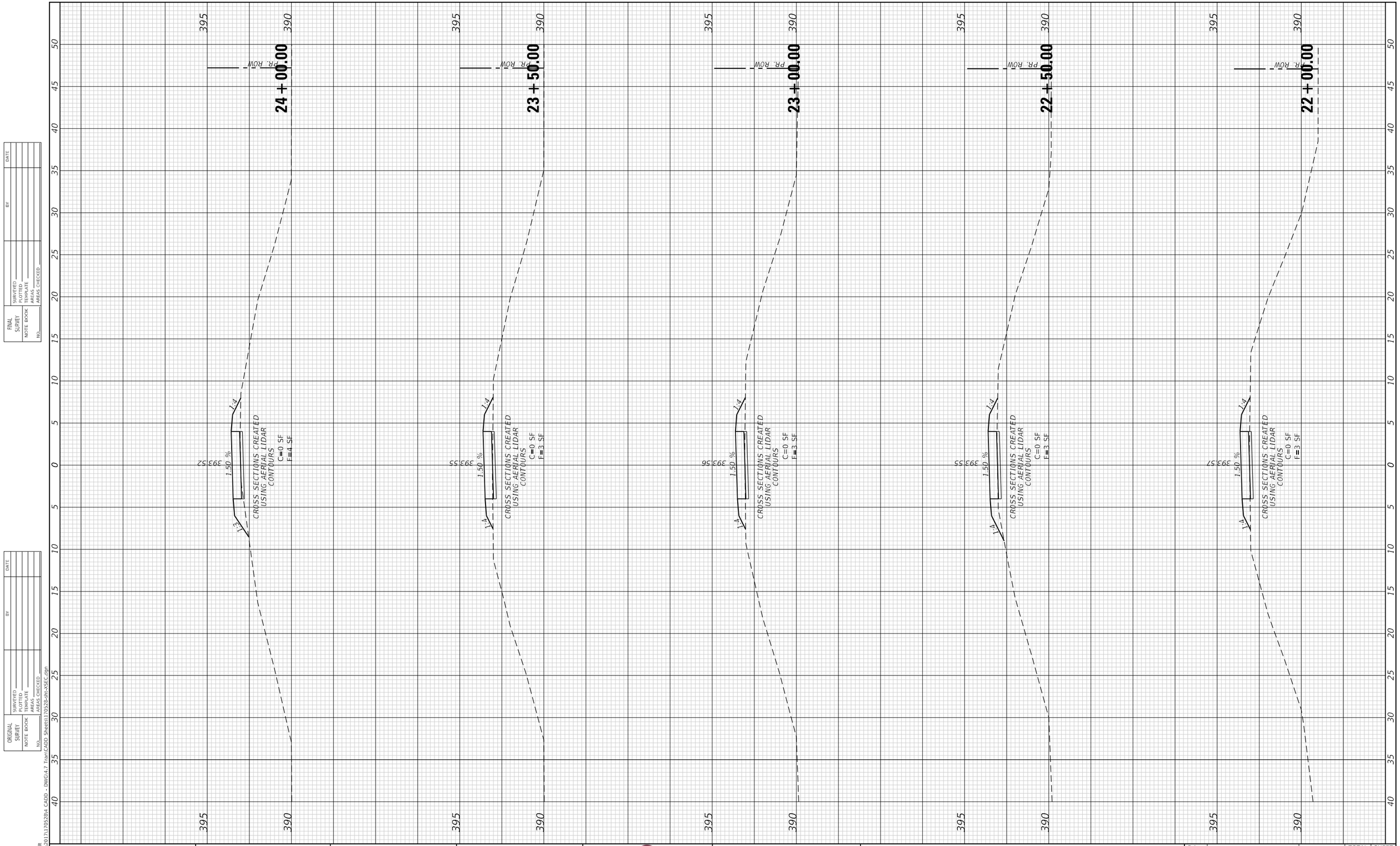
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 9 OF 24 SHEETS | STA. 19+50.00 TO STA. 21+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	36
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -
PLOT DATE = 1/24/2022	DATE -	REVISED -

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

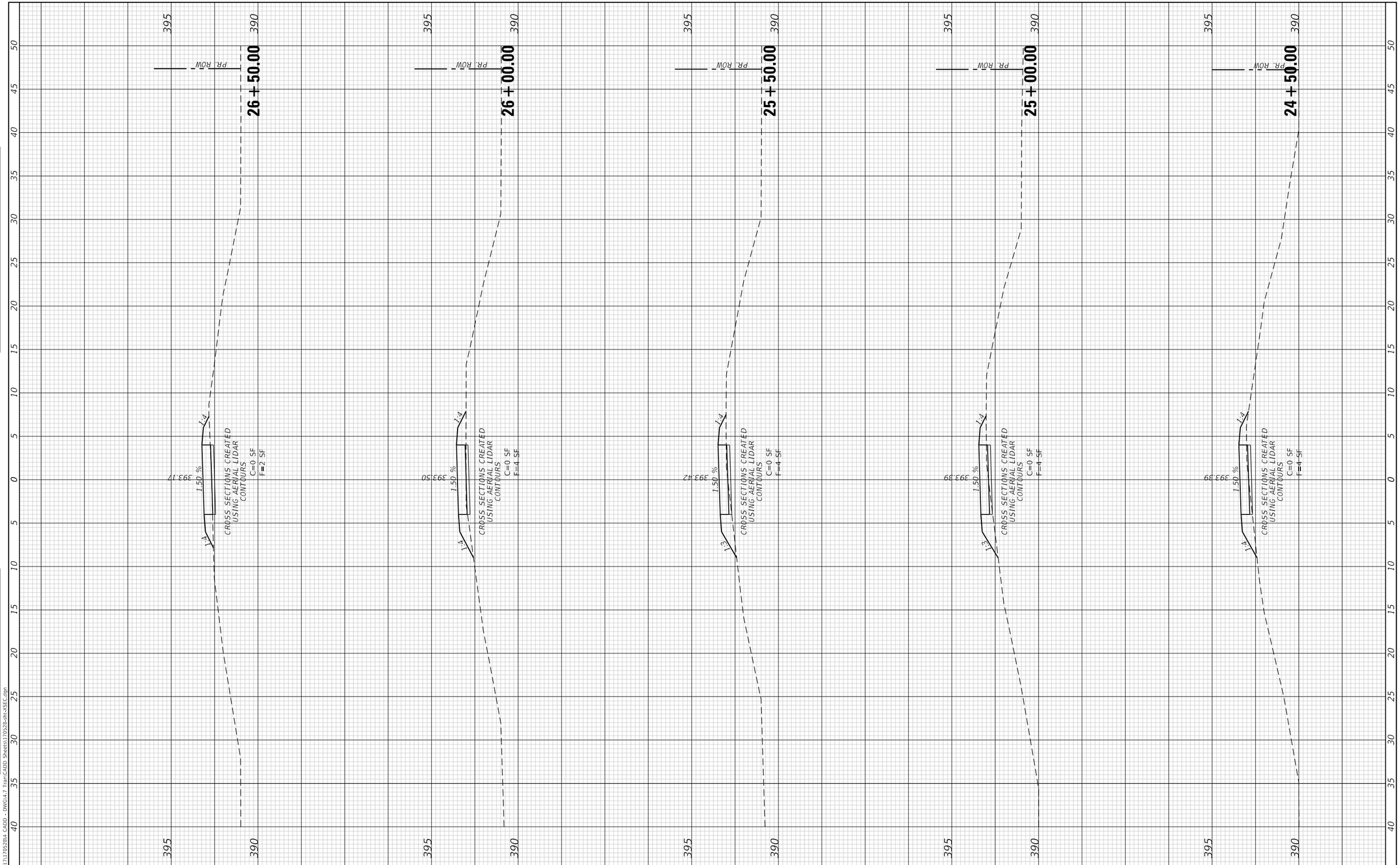
CROSS SECTIONS

SCALE: 1" = 5' | SHEET 10 OF 24 SHEETS | STA. 22+00.00 TO STA. 24+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	37
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

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



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PLOT DATE = 1/24/2022	DATE -	REVISED -	

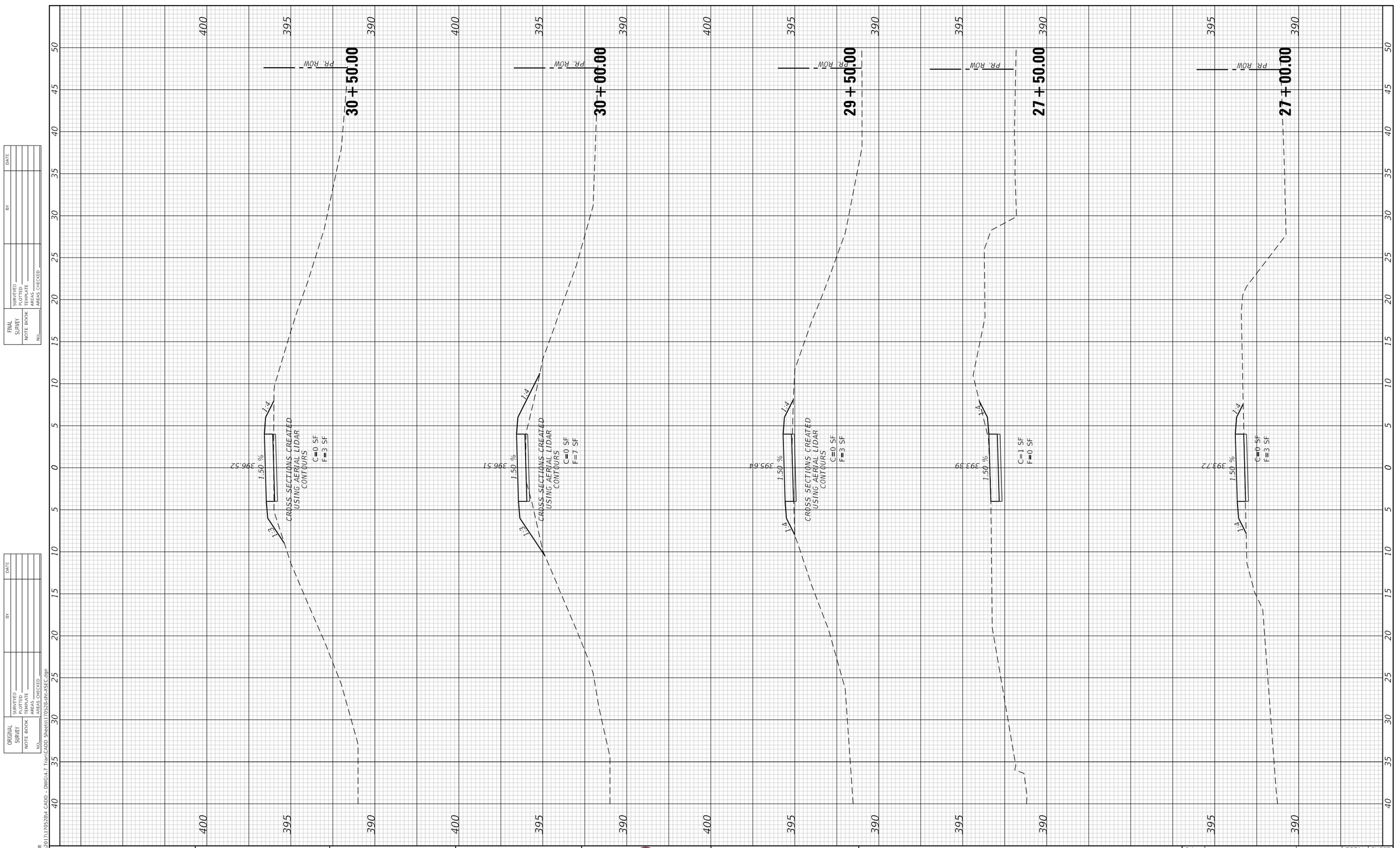
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 11 OF 24 SHEETS | STA. 24+50.00 | TO STA. 26+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	38
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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

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PLOT DATE = 1/24/2022	DATE -	REVISED -

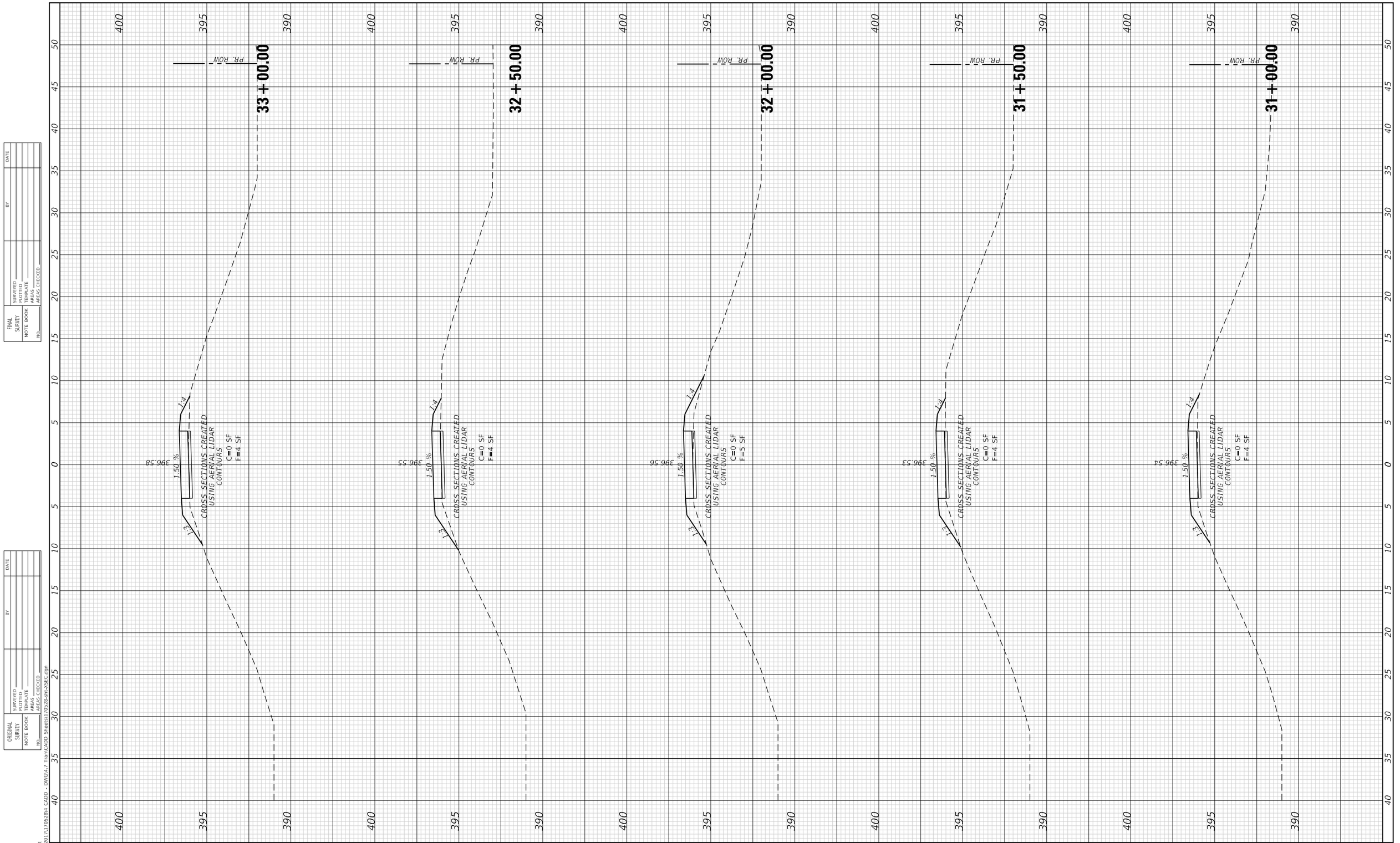
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 12 OF 24 SHEETS | STA. 27+00.00 TO STA. 30+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	39
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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

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

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PLOT DATE = 1/24/2022	DATE -	REVISED -

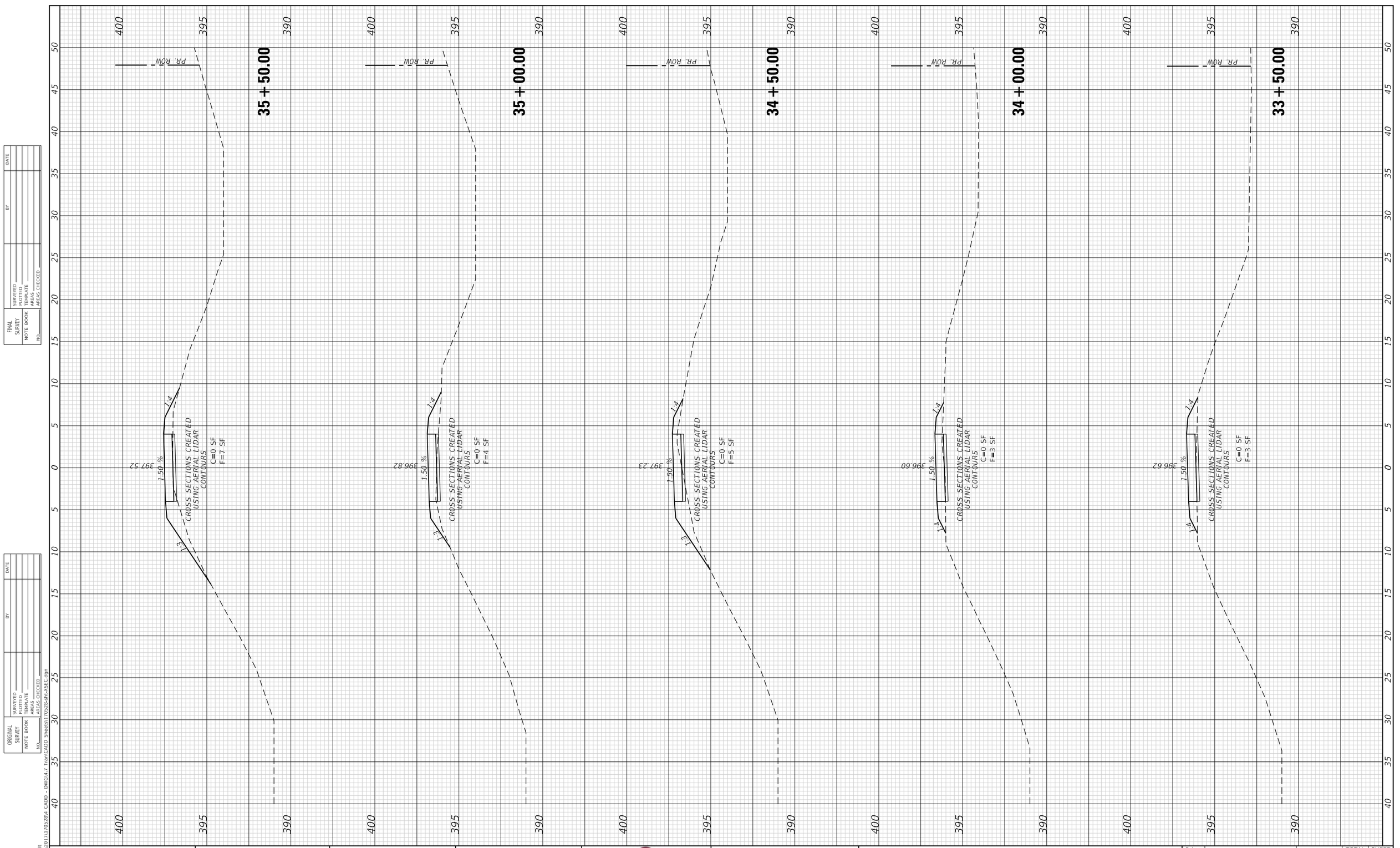
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 13 OF 24 SHEETS | STA. 31+00.00 | TO STA. 33+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	40
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	PLOTTED	DATE
NO.	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	BY
NOTE BOOK	PLOTTED	DATE
NO.	TEMPLATE	
	AREAS	
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PLOT DATE = 1/24/2022	DATE -	REVISED -

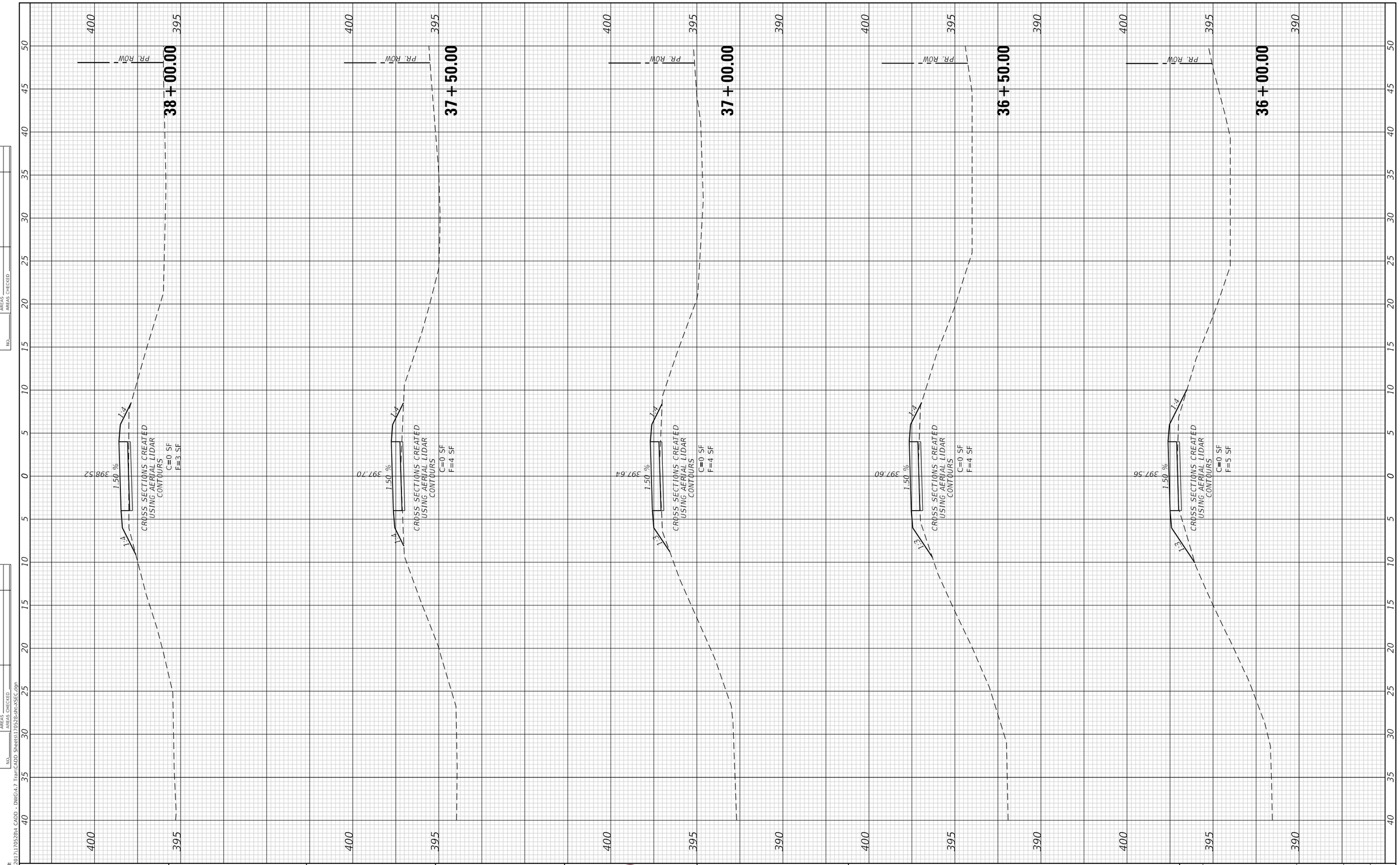
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 14 OF 24 SHEETS | STA. 33+50.00 TO STA. 35+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	41
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
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PLOT DATE = 1/24/2022	DATE -	REVISED -

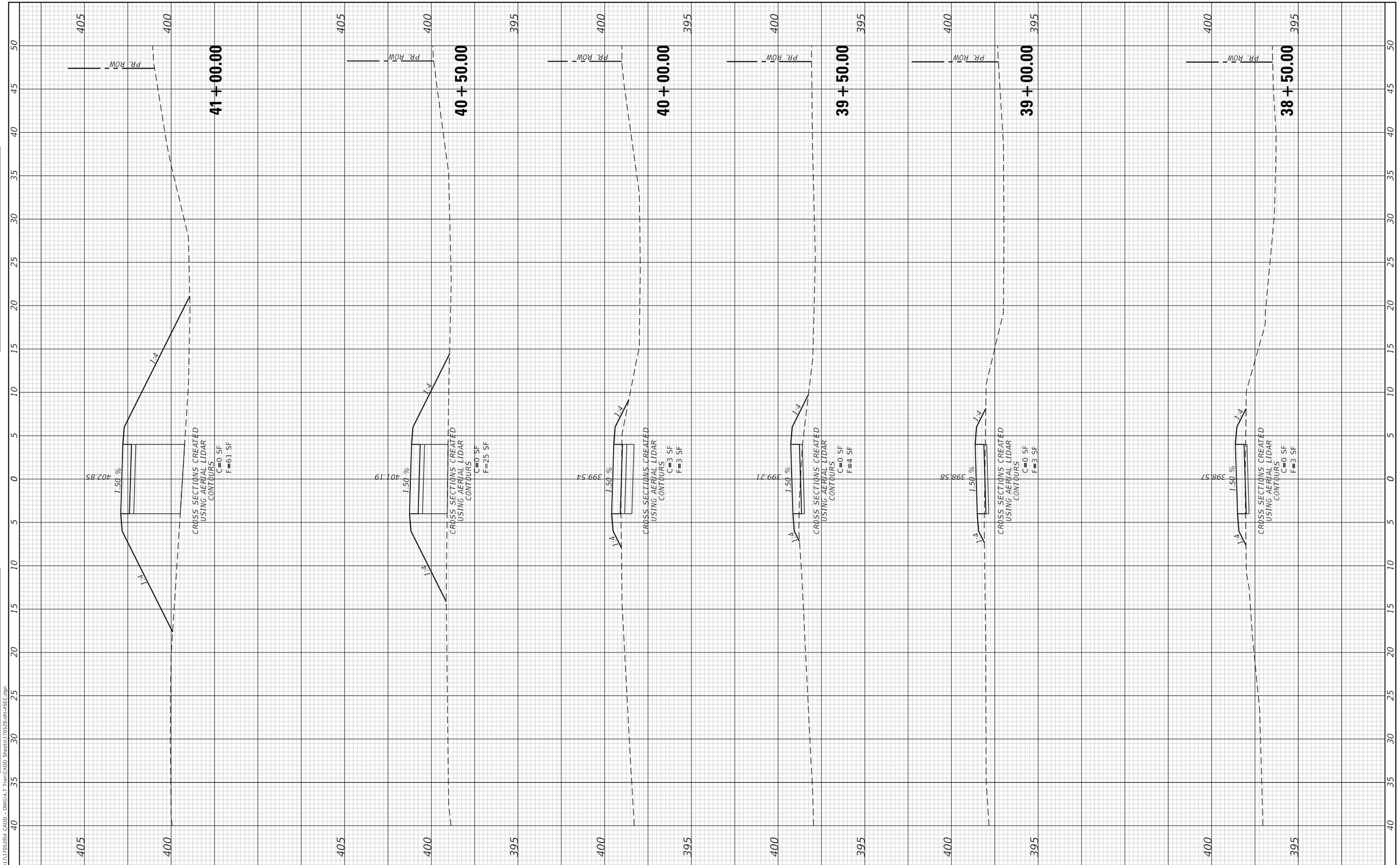
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 15 OF 24 SHEETS | STA. 36+00.00 | TO STA. 38+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	42
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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PLOT DATE = 1/24/2022	DATE -	REVISED -

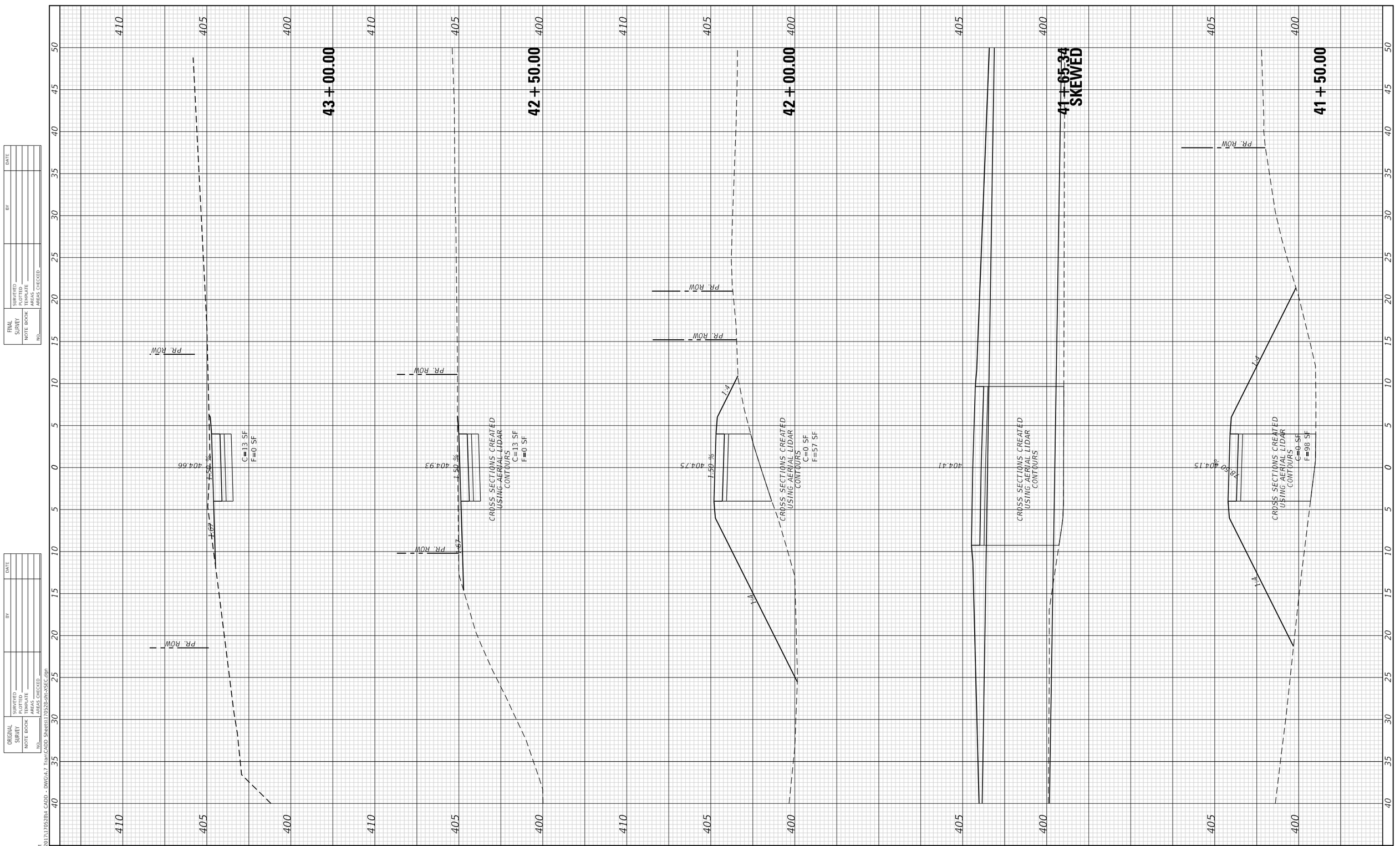
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 16 OF 24 SHEETS | STA. 38+50.00 | TO STA. 41+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	43
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 17 OF 24 SHEETS | STA. 41+50.00 TO STA. 43+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	44
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			

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

ORIGINAL SURVEY		BY	DATE
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	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
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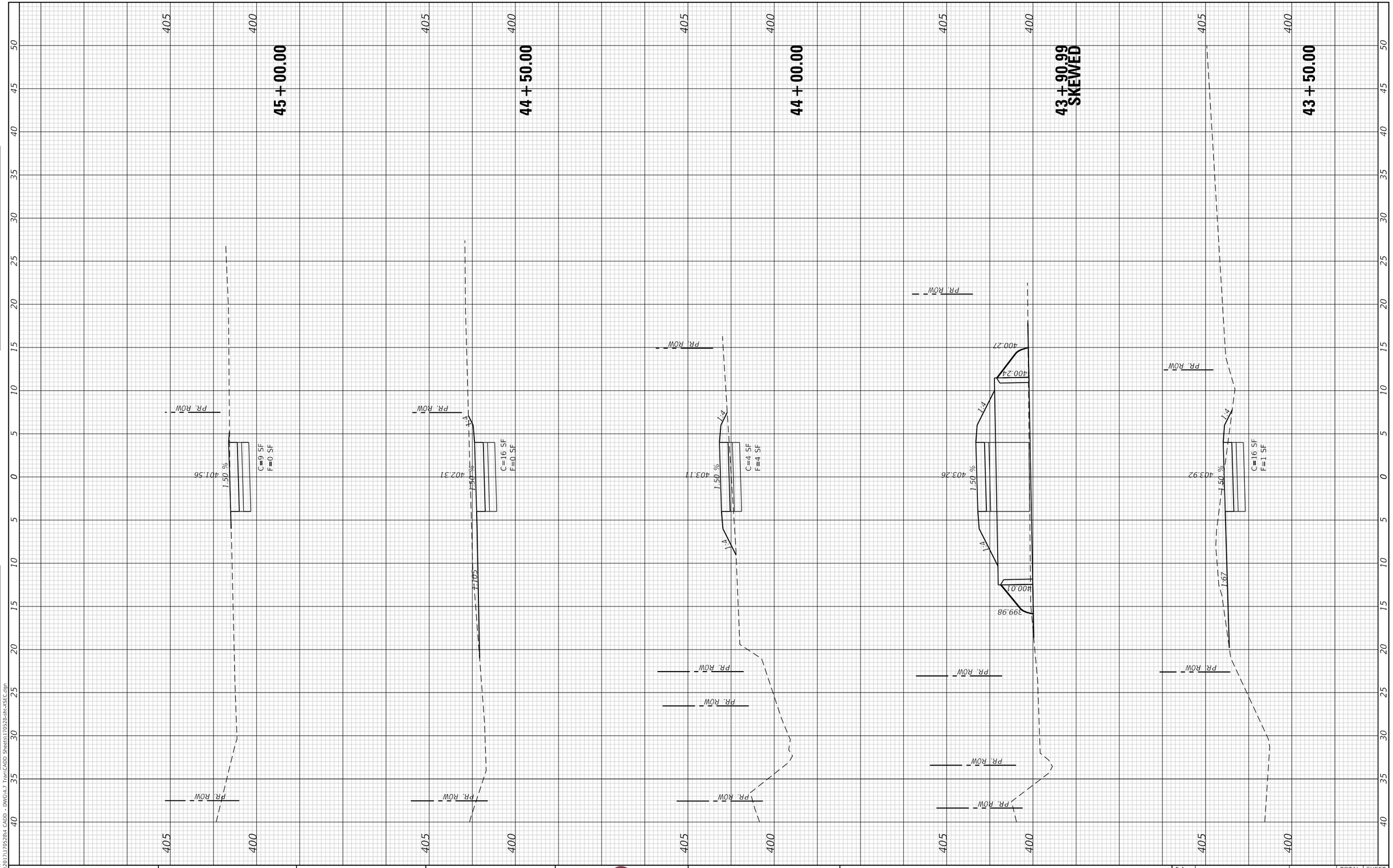

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PLOT DATE = 1/24/2022	DATE -	REVISED -

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 18 OF 24 SHEETS | STA. 43+50.00 | TO STA. 45+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	45
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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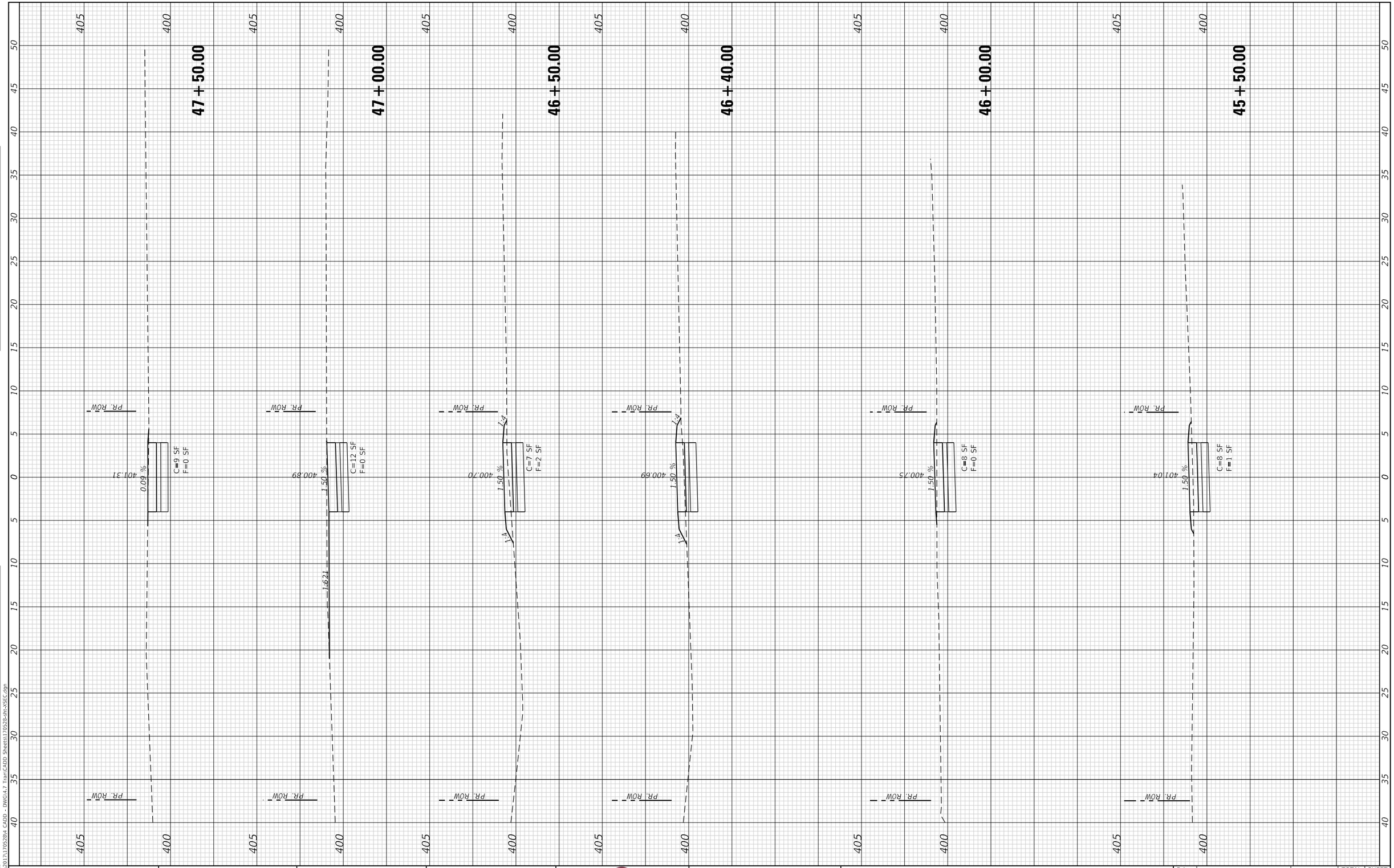

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 19 OF 24 SHEETS | STA. 45+50.00 | TO STA. 47+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	46
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
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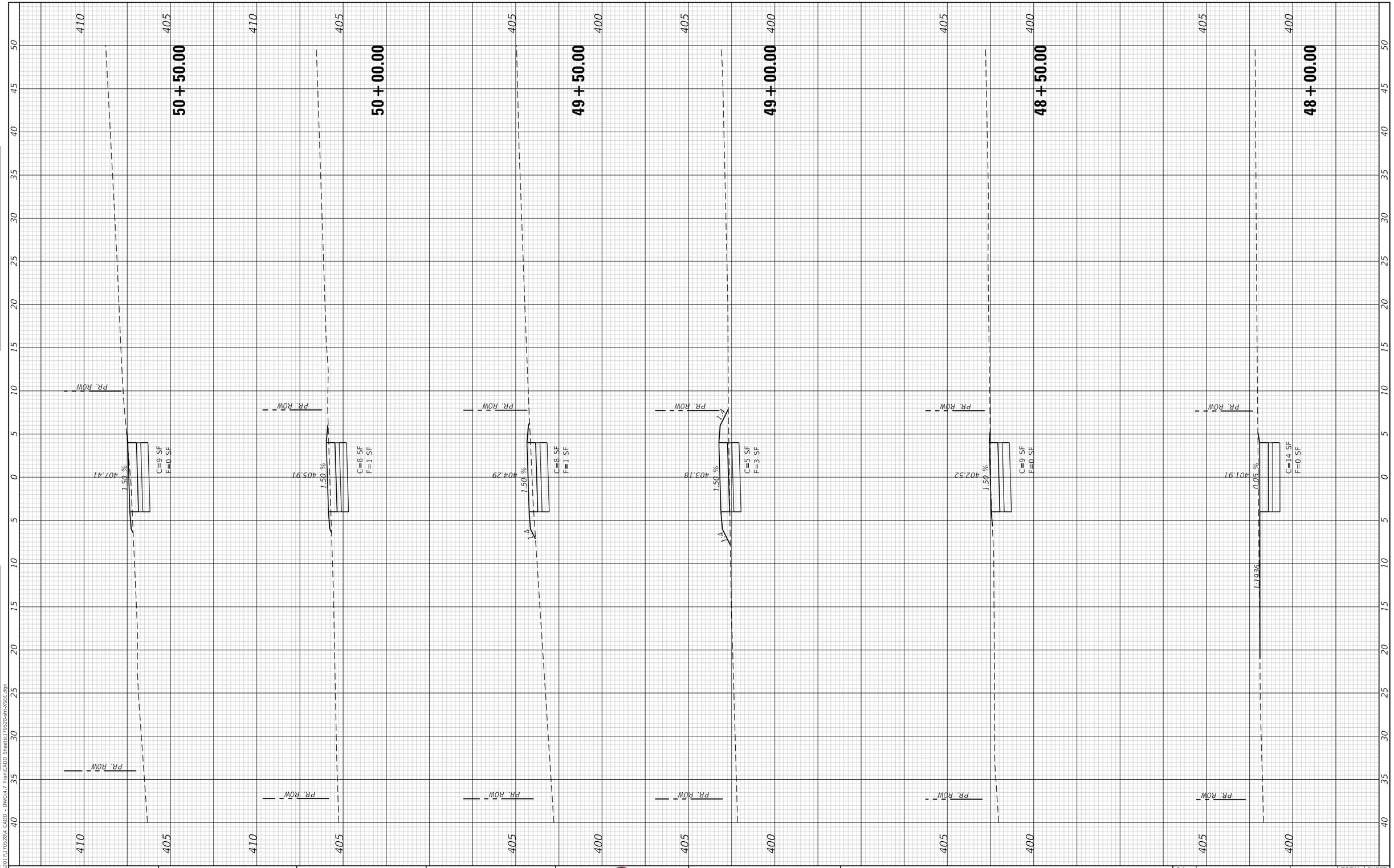

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

TWM

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 20 OF 24 SHEETS | STA. 48+00.00 | TO STA. 50+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	47
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
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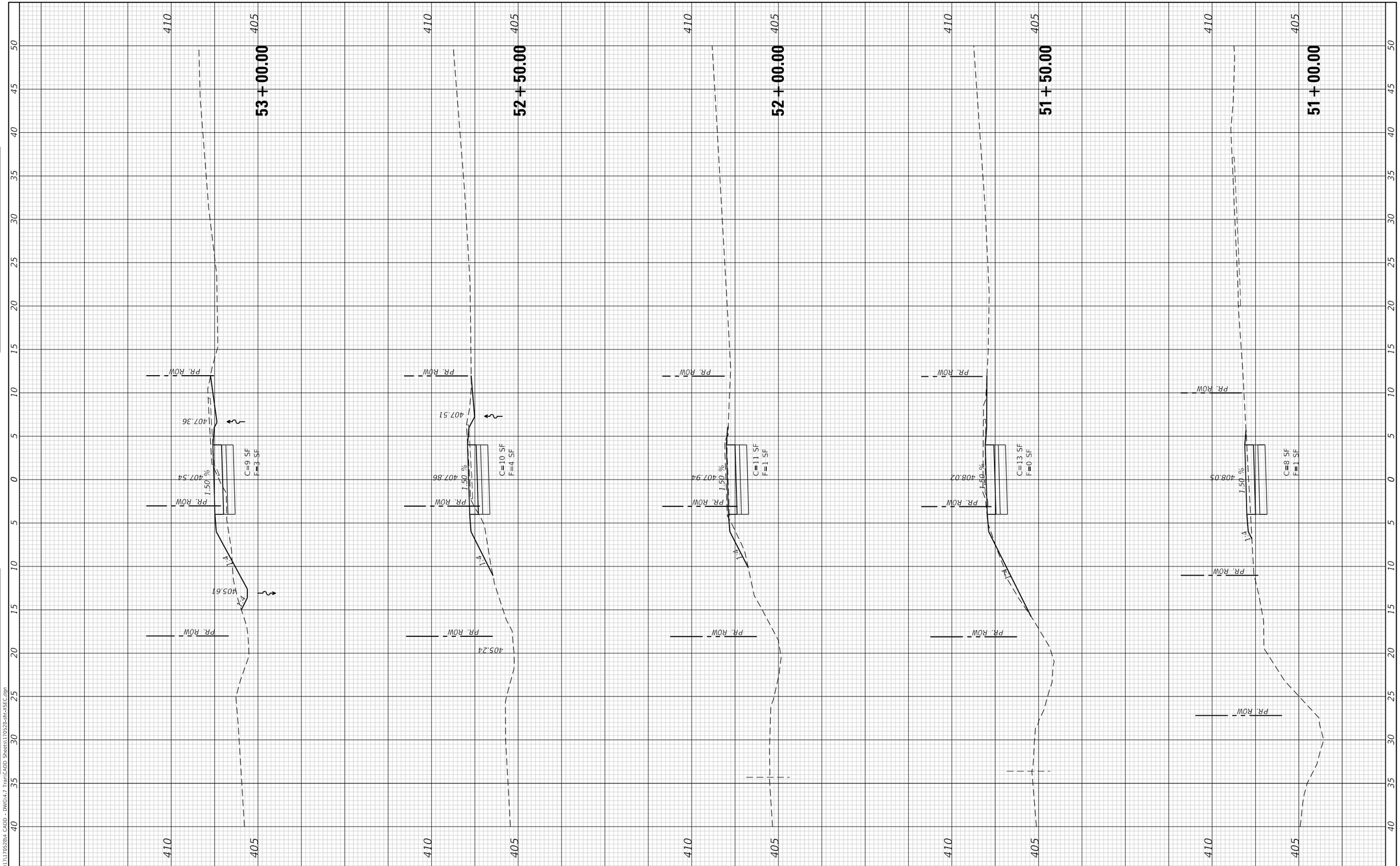

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 21 OF 24 SHEETS | STA. 51+00.00 TO STA. 53+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	48
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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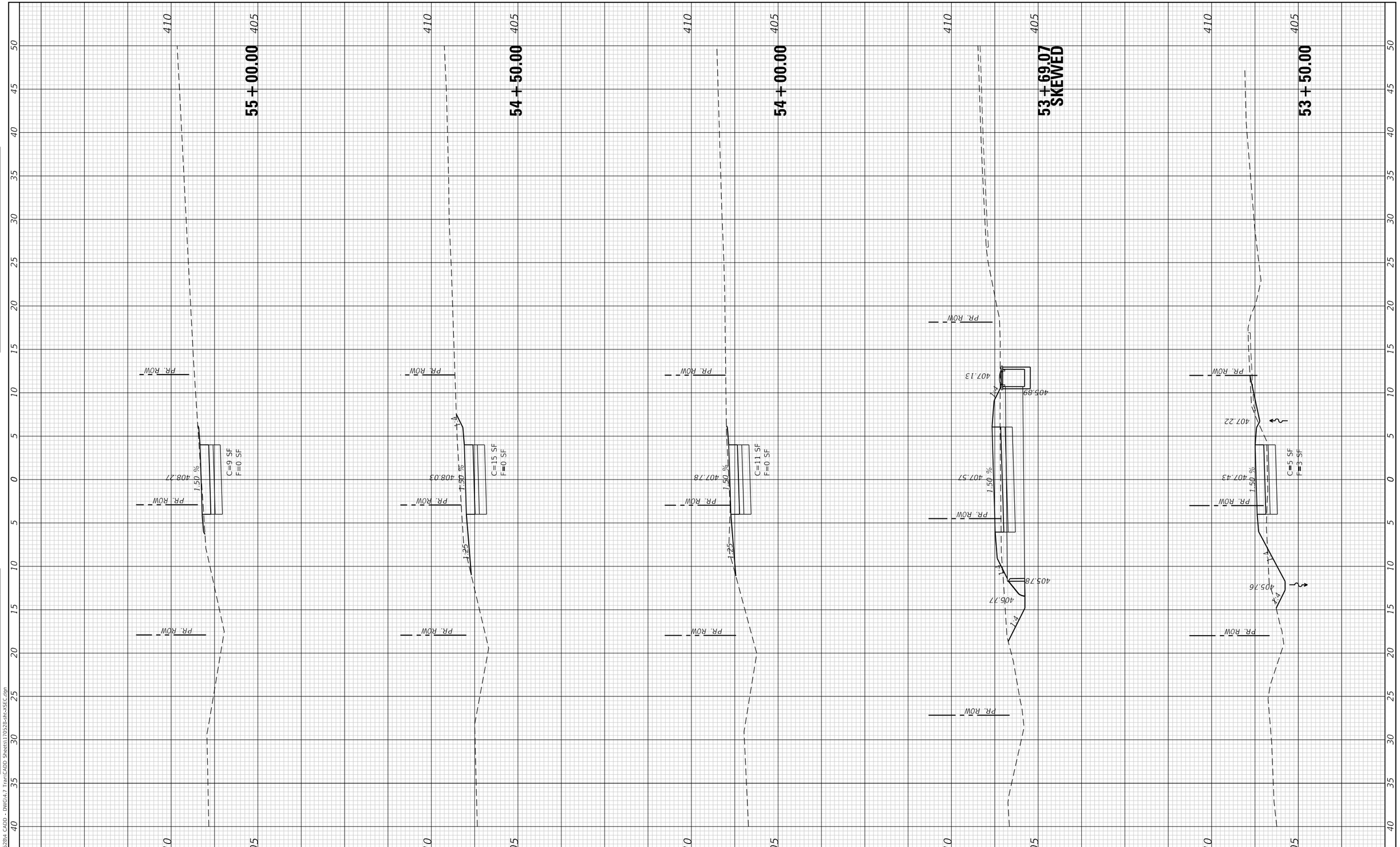

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PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 22 OF 24 SHEETS | STA. 53+50.00 | TO STA. 55+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	49
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY		BY	DATE
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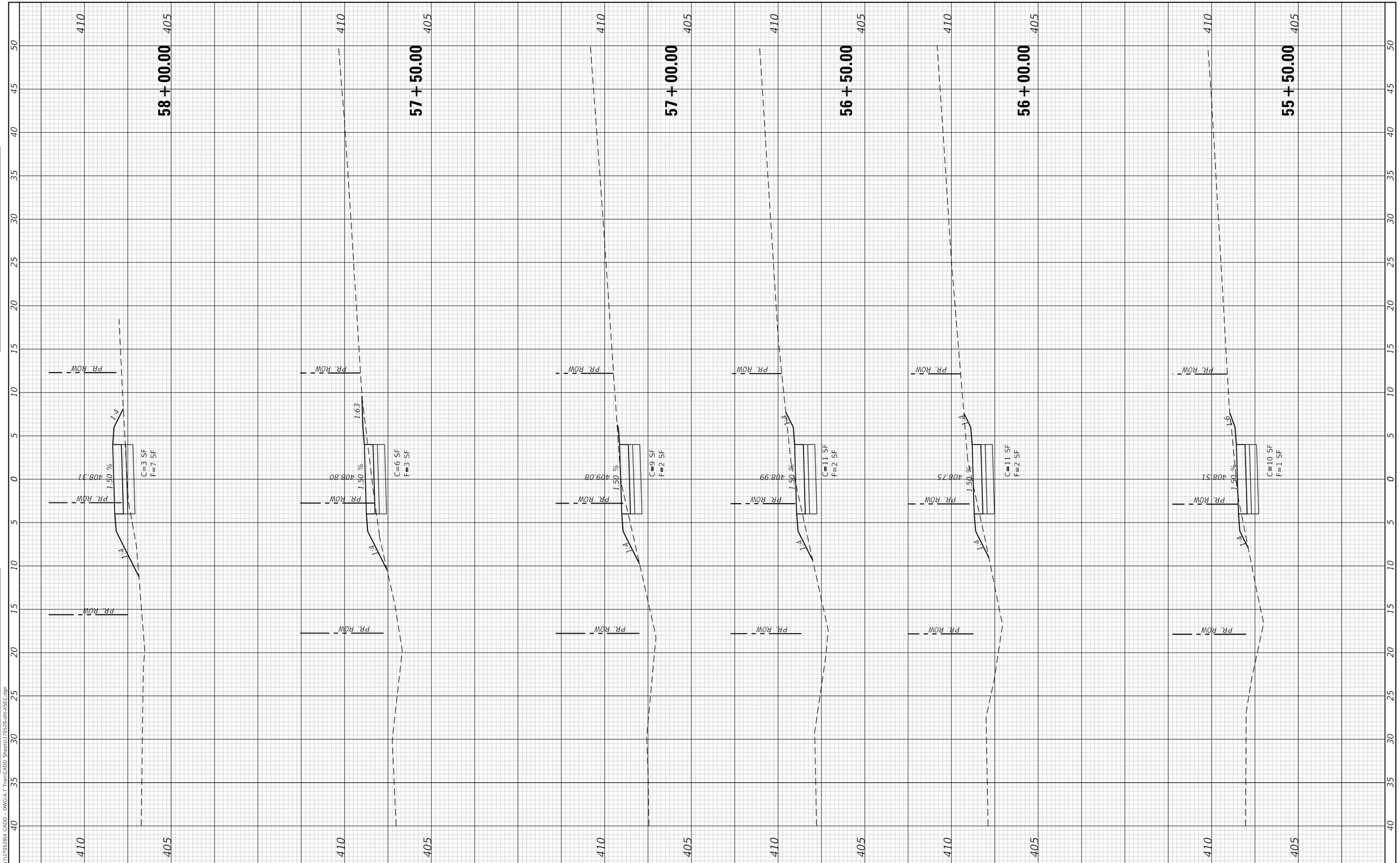

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PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 1/24/2022	DATE -	REVISED -	

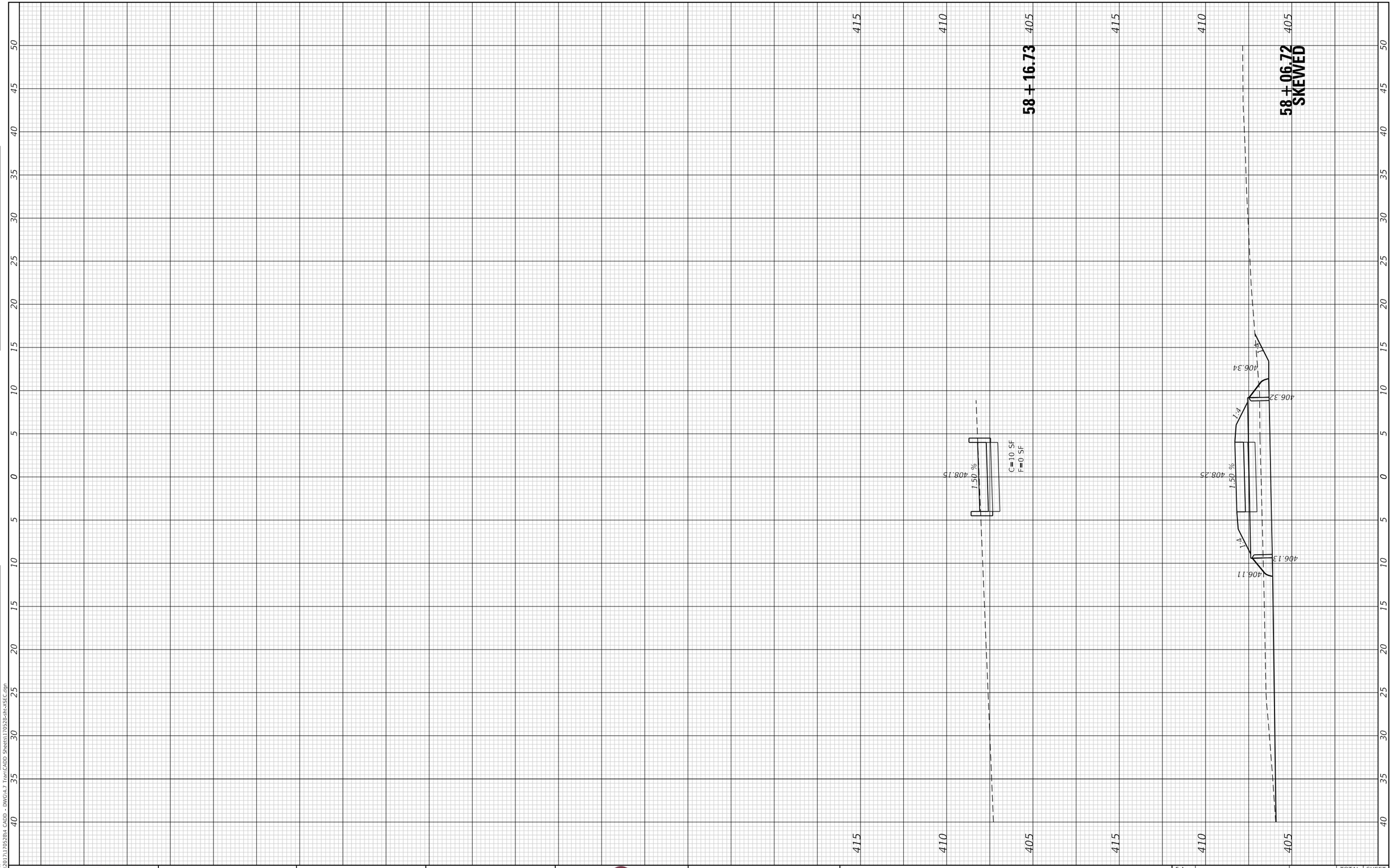
CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 23 OF 24 SHEETS | STA. 55+50.00 | TO STA. 58+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	50
		CONTRACT NO. 99632		
	ILLINOIS	FED. AID PROJECT		



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

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

MODEL: Default
FILE NAME: P:\2017\1705284 CADD - DWG\4.7 Train\CADD Sheets\170528-dh-XSEC.dgn

TWM

USER NAME = efisher	DESIGNED - EKF	REVISED -	
	DRAWN - EKF	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - JRR	REVISED -	
PLOT DATE = 1/24/2022	DATE -	REVISED -	

CARBONDALE
All Ways Open

CITY OF CARBONDALE
NORTHWEST PEDESTRIAN AND BICYCLE PATH

CROSS SECTIONS

SCALE: 1" = 5' | SHEET 24 OF 24 SHEETS | STA. 58+06.72 | TO STA. 58+16.73

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00136-00-BT	JACKSON	51	51
		CONTRACT NO. 99632		
	ILLINOIS FED. AID PROJECT			