

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 95950	

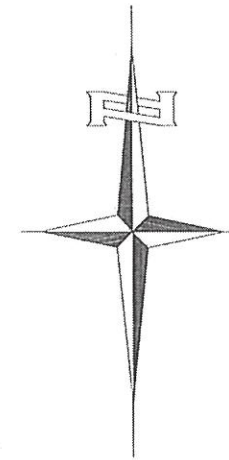
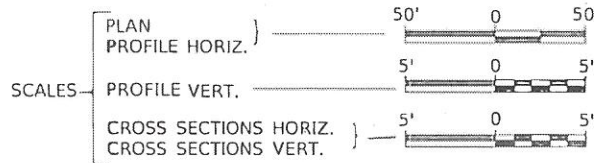
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, TYPICAL SECTIONS, DETAILS
3	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4	TRAFFIC CONTROL PLAN
5	EROSION CONTROL PLAN
6	PLAN AND PROFILE
7-14	STRUCTURE PLANS
15-19	CROSS SECTIONS

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED LBFP FUNDS SHELBY COUNTY SECTION 19-11120-00-BR TOWNSHIP ROAD 387 OVER MATNEY BRANCH PROJECT NO. NB36(014) JOB NUMBER C-97-071-22



**HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 701901-09 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

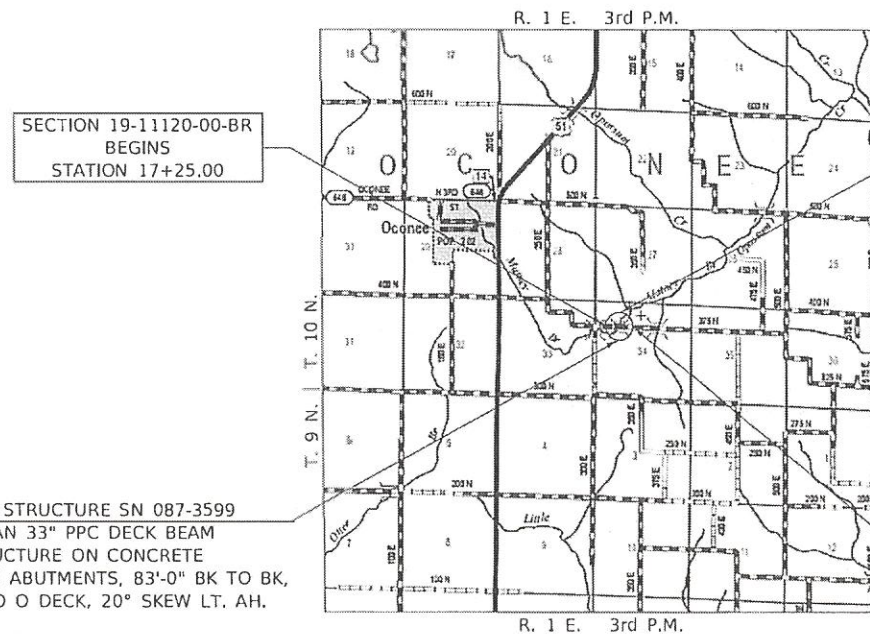


**UTILITY COMPANIES**

- FRONTIER COMMUNICATIONS  
ALTAMONT, ILLINOIS
- EJ WATER COOPERATIVE, INC.  
DIETERICH, ILLINOIS

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

**CONTRACT NO. 95950**



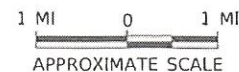
SECTION 19-11120-00-BR  
BEGINS  
STATION 17+25.00

EXISTING STRUCTURE SN 087-3236  
TWO SPAN STEEL BEAM BRIDGE WITH A TIMBER DECK ON CLOSED ABUTMENTS WITH EXPOSED TIMBER PILES AND A PIER CONSISTING OF A TIMBER BEAM SUPPORTED BY TIMBER PILES. 48'-4" BK TO BK, 20'-2" O TO O DECK, NO SKEW. (TO BE REMOVED)

PROPOSED STRUCTURE SN 087-3599  
SINGLE SPAN 33" PPC DECK BEAM SUPERSTRUCTURE ON CONCRETE SPILL-THRU ABUTMENTS, 83'-0" BK TO BK, 24'-0" O TO O DECK, 20° SKEW LT. AH.

SECTION 19-11120-00-BR  
ENDS  
STATION 22+25.00

**LOCATION MAP**



NET LENGTH OF PROJECT = 500.00 FEET = 0.095 MILES  
DESIGN CLASSIFICATION: LOCAL ROAD (NON-URBAN)  
DESIGN ADT = 125 (2022)  
DESIGN SPEED = 30 MPH

APPROVED	<i>Benjamin A. Neel</i>	2024
OCONEE ROAD DISTRICT HIGHWAY COMMISSIONER		
APPROVED	<i>Mark...</i>	2024
SHELBY COUNTY ENGINEER		
PASSED	<i>01/11/24</i> <i>Frank...</i>	2024
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS		
Released For Bid Based on Limited Review	<i>01/11/24</i> <i>Jeff...</i>	2024
REGION FOUR ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

DATE: \_\_\_\_\_

*Benjamin A. Neel*  
SIGNATURE

ENGINEERS SEAL

**Hutchison**  
Engineering, Inc.

2024 JOB#4655

FILE NAME: V:\4655 - TR 387 SHY MATNEY BRANCH (SHRBY) \CADD\CADD - 95950-001.dgn

**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

**GENERAL NOTES**

PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE PROPOSED RIGHT OF WAY. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE TREE REMOVAL QUANTITIES, SUCH TREES THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.

THE REMOVAL OF EXISTING OIL & CHIP SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

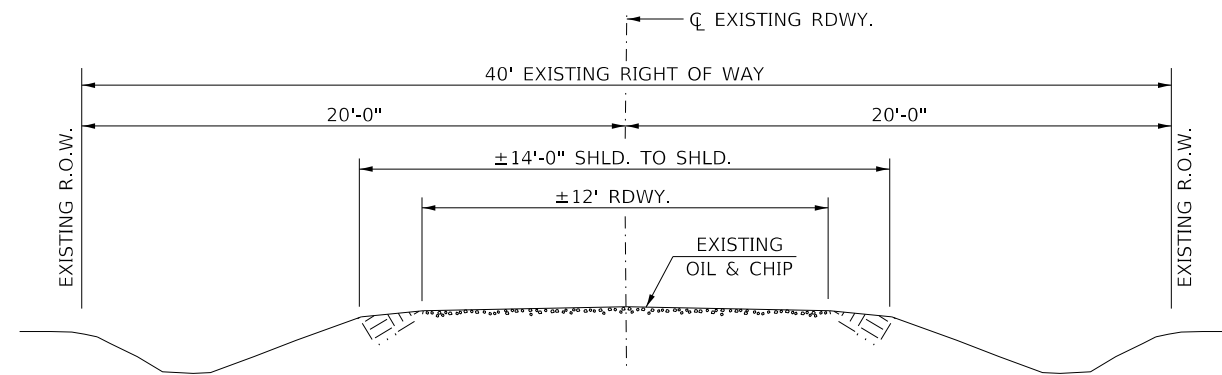
ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

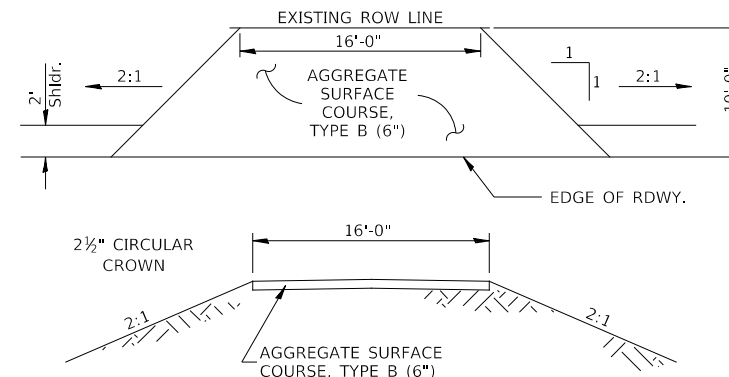
THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

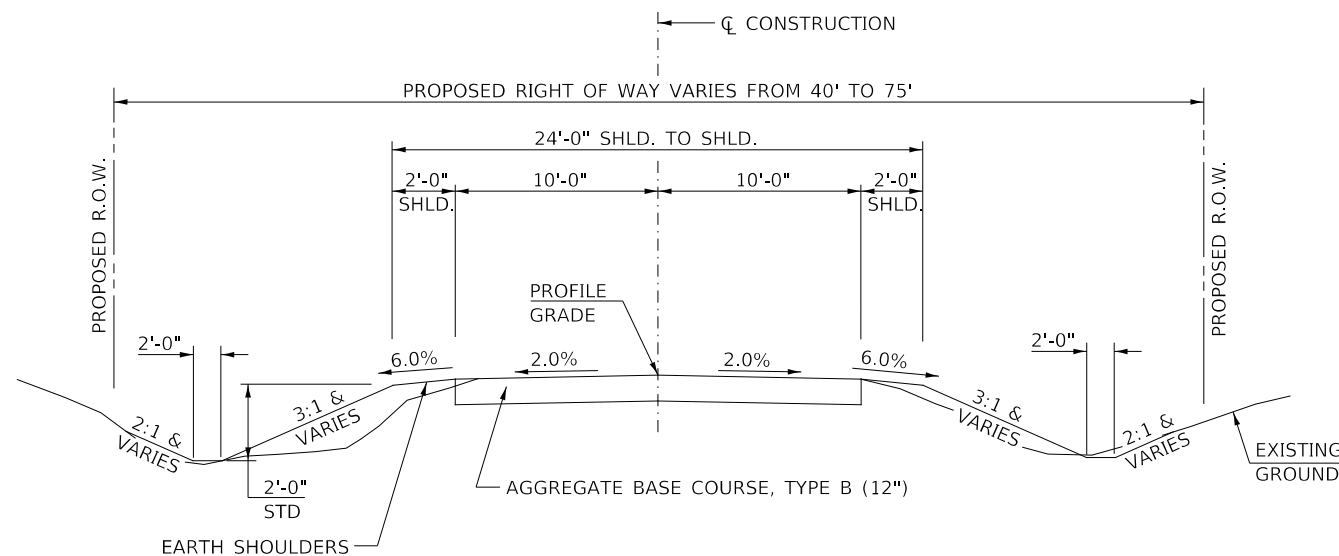


**EXISTING TYPICAL SECTION**



**FIELD ENTRANCES**

STA 18+00 LT

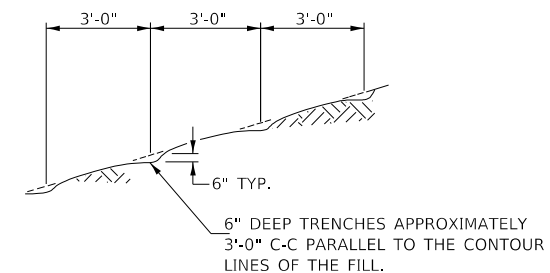


**PROPOSED TYPICAL SECTION**

STA. 17+25.00 TO STA. 19+64.85  
STA. 20+47.86 TO STA. 22+25.00

EXCEPT TRANSITIONS

BRIDGE OMISSION  
STA. 19+64.85 TO STA. 20+47.86



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL, COST SHALL BE INCLUDED WITH SEEDING, CLASS 2.

**DETAIL OF CONTOUR PLOWING**

MODEL: \\MODEL\NAME: TR\_387\_over\_Matney\_Branch (Shelby)\CADD\CADD Sheets\1655-001.dgn  
FILE NAME: V:\1655 - TR\_387\_over\_Matney\_Branch (Shelby)\CADD\CADD Sheets\1655-001.dgn

USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
PLOT SCALE = 2,000' / in.	DRAWN - MMO	REVISED - _____
PLOT DATE = 1/3/2024	CHECKED - JPS/BAN	REVISED - _____
	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**GENERAL NOTES, TYPICAL SECTIONS, DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 17+25.00 TO STA. 22+25.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	2
			CONTRACT NO. 95950	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT N836(014)	

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16
* 20100500	TREE REMOVAL, ACRES	ACRE	0.2
20200100	EARTH EXCAVATION	CU YD	865
20300100	CHANNEL EXCAVATION	CU YD	340
25000200	SEEDING, CLASS 2	ACRE	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27
25100115	MULCH, METHOD 2	ACRE	0.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300
28000305	TEMPORARY DITCH CHECKS	FOOT	348
28000400	PERIMETER EROSION BARRIER	FOOT	740
28100209	STONE RIPRAP, CLASS A5	TON	515
28200200	FILTER FABRIC	SQ YD	650
28300400	AGGREGATE DITCH	TON	147
35101400	AGGREGATE BASE COURSE, TYPE B	TON	571
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	35
50300225	CONCRETE STRUCTURES	CU YD	25.2
50300280	CONCRETE ENCASEMENT	CU YD	3.6
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,944
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,680
* 50900205	STEEL RAILING, TYPE S1	FOOT	166
51201400	FURNISHING STEEL PILES HP10X42	FOOT	316
51202305	DRIVING PILES	FOOT	316
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	19.0
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* X2200020	FENCE REMOVAL AND REINSTALLATION	FOOT	510

\* SPECIALTY ITEMS

**TEMPORARY DITCH CHECKS**

STATION	SIDE	FOOT
20+15	RIGHT	12
20+28	RIGHT	12
20+35	LEFT	12
20+40	RIGHT	12
20+48	LEFT	12
20+53	RIGHT	12
20+60	LEFT	12
20+65	RIGHT	12
20+73	LEFT	12
20+78	RIGHT	12
20+85	LEFT	12
20+90	RIGHT	12
20+98	LEFT	12
21+03	RIGHT	12
21+10	LEFT	12
21+20	RIGHT	12
21+23	LEFT	12
21+35	LEFT	12
21+38	RIGHT	12
21+48	LEFT	12
21+55	RIGHT	12
21+60	LEFT	12
21+73	LEFT	12
21+73	RIGHT	12
21+85	LEFT	12
21+90	RIGHT	12
21+99	LEFT	12
22+08	RIGHT	12
22+12	LEFT	12
<b>TOTAL</b>		<b>348</b>

EARTHWORK SUMMARY					
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE
	CU YD				
RDWY 17+25.00 - 19+64.85	174			165	(35)
RDWY 20+47.86 - 22+25.00	689			372	145
CHANNEL		340			
STRUCTURE			35		
<b>TOTAL</b>	<b>863</b>	<b>340</b>	<b>35</b>	<b>537</b>	<b>110</b>
USE	865	340	35	-	110

(@ 25% SHRINKAGE)

AGGREGATE BASE COURSE, TYPE B					
STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON	
17+25.00   17+75.00	1.00'	16.54' AVG.	50.00'	58	
17+75.00   19+64.85	1.00'	20.00'	189.85'	266	
20+47.86   21+75.00	1.00'	20.00'	127.14'	178	
21+75.00   22+25.00	1.00'	17.02' AVG.	50.00'	60	
ENTR. - 18+00.00 LT	0.50'	16' & VAR.	10.00'	9	
<b>TOTAL</b>				<b>571</b>	

FENCE REMOVAL AND REINSTALLATION			
STATION TO STATION	SIDE	FOOT	
17+25	19+75	LEFT	256
17+25	19+75	RIGHT	254
<b>TOTAL</b>			<b>510</b>

TREE REMOVAL				
STATION TO STATION	OFFSET	SIDE	OVER 15 UNITS	ACRES
19+46	52'	LEFT	16	
20+31	22+18	VARIES	LEFT	0.1
20+34	22+09	VARIES	RIGHT	0.1
<b>TOTAL</b>			<b>16</b>	<b>0.2</b>

PERIMETER EROSION BARRIER			
STATION TO STATION	SIDE	FOOT	
17+25	19+71	LEFT	290
17+25	19+60	RIGHT	250
20+35	22+25	LEFT	200
<b>TOTAL</b>			<b>740</b>

AGGREGATE DITCH*					
STATION TO STATION	SIDE	WIDTH	TON	FILTER FABRIC (SQ YD)	
20+15	22+25	RIGHT	77	140	
20+35	22+25	LEFT	70	130	
<b>TOTAL</b>			<b>147</b>	<b>270</b>	

\*AGGREGATE DITCH SHALL CONFORM TO MATERIAL TYPE B-3 OF THE STANDARD SPECIFICATIONS

MODEL: 44001.DWG  
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PLOT DATE = 1/3/2024	CHECKED - JPS/BAN	REVISED - _____
	DATE - 11/8/2023	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**SUMMARY OF QUANTITIES,  
SCHEDULES OF QUANTITIES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 17+25.00 TO STA. 22+25.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	3
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 95950	
FED. AID PROJECT NB36(014)				

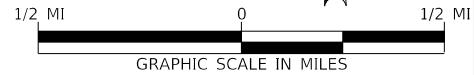
R 1 E, 3rd PM



- 1 ROAD CLOSED 1/4 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
- 2 ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
- 3 ROAD CLOSED 1 1/4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3
- 4 ROAD CLOSED 1 1/2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3
- 5 ROAD CLOSED 1 3/4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3

- 6 ROAD CLOSED AHEAD W20-3
- 7 ROAD CLOSED 500 FT W20-3
- 8 TYPE III BARRICADES

SEE STANDARD BLR 21 AND SPECIAL PROVISIONS



MODEL: STANDARDNAMES  
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PLOT SCALE = 2,000' / in.	DRAWN - MMO	REVISED -
PLOT DATE = 1/3/2024	CHECKED - JPS/BAN	REVISED -
	DATE - 10/1/2021	REVISED -

**SHELBY COUNTY  
 TOWNSHIP ROAD 387  
 OVER MATNEY BRANCH**

**TRAFFIC CONTROL PLAN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 17+25.00 TO STA. 22+25.00

RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	4
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 95950	
		FED. AID PROJECT N836(014)		

T 10 N, R 1 E, 3rd PM  
SECTION 34

BRANCH

MATNEY

+25

+71

+35 +48 +60 +73 +85 +98 +10 +23 +35 +48 +60 +73 +85 +99 +12 +25

17

18 19  
TOWNSHIP ROAD 387

20+00

21

22

+25


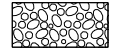


+60

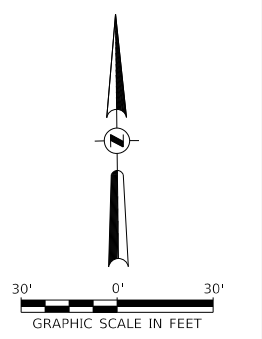
+15 +28 +40 +53 +65 +78 +90 +03 +20 +38 +55 +73 +90 +08 +25

PROPOSED STRUCTURE  
SN 087-3599

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP/AGGREGATE DITCH PLACEMENT
-  TEMPORARY DITCH CHECK
-  SPECIAL DITCH - FLOW LINE AND DIRECTION



T 10 N, R 1 E, 3rd PM  
SECTION 34

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**EROSION CONTROL PLAN**

USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 60,0000 ' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. 17+25.00 TO STA. 22+25.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	5
		CONTRACT NO. 95950		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT N836(014)		

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SECTION 34

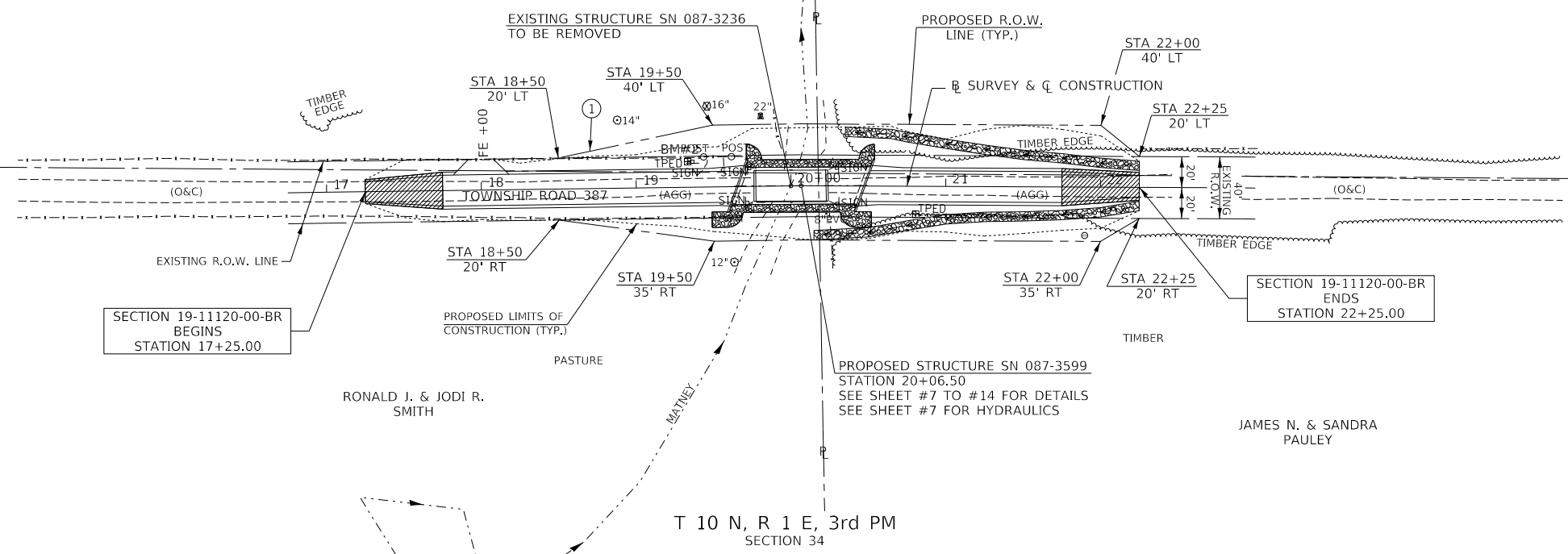
POT STA 16+75.00  
MAG NAIL

POT STA 22+99.98  
MAG NAIL

RONALD J. & JODI R. SMITH

ARTHUR HOEHN

① SILT FENCE SHALL BE PLACED ALONG ROW LINE FOR LIMITS OF THE PROJECT PER SECTION 280 & ARTICLE 1080.02

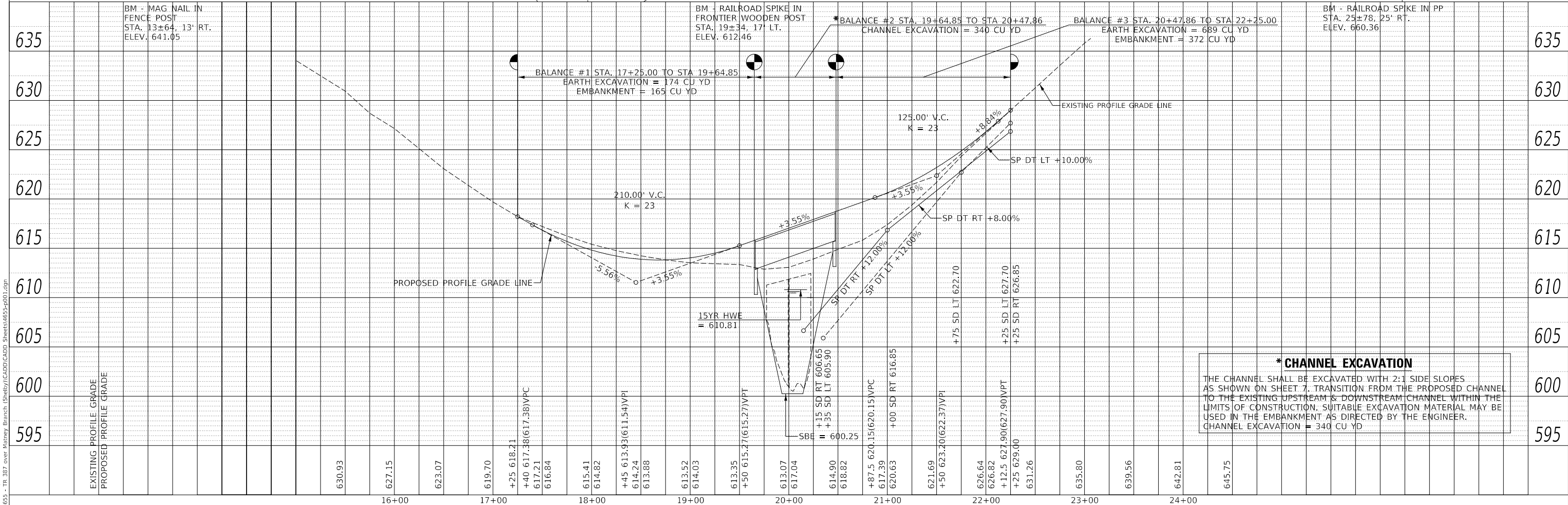


**LEGEND**

- TRANSITION TO OR FROM EXISTING TO PROPOSED TYPICAL PAVEMENT
- PROPOSED RIPRAP/AGGREGATE DITCH PLACEMENT
- SPECIAL DITCH WITH FLOW DIRECTION
- PROPOSED TREE REMOVAL

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

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



**\* CHANNEL EXCAVATION**  
THE CHANNEL SHALL BE EXCAVATED WITH 2:1 SIDE SLOPES AS SHOWN ON SHEET 7. TRANSITION FROM THE PROPOSED CHANNEL TO THE EXISTING UPSTREAM & DOWNSTREAM CHANNEL WITHIN THE LIMITS OF CONSTRUCTION. SUITABLE EXCAVATION MATERIAL MAY BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.  
CHANNEL EXCAVATION = 340 CU YD

MODEL: SPODEL\MAMES  
FILE NAME: V:\1855 - TR 387 over Matney Branch (Shelby)\CADD\CADD Sheets\1855-p01.dgn

USER NAME = JSavage	DESIGNED - MMO	REVISED -
	DRAWN - MMO	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JPS/BAN	REVISED -
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED -

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

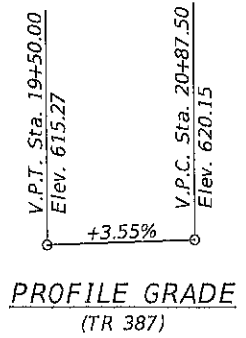
SCALE: 1"=50'  
SHEET NO. 1 OF 1 SHEETS  
STA. 17+25.00 TO STA. 22+25.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	6
CONTRACT NO. 95950				
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NB36(014)		

B.M.: Mag-Nail in Fence Post Sta. 13+64, 13' Rt. Elev. 641.05  
 RR Spike in Frontier Wooden Post Sta. 19+34, 17' Lt. Elev. 612.46  
 RR Spike in Power Pole Sta. 25+78, 25' Rt. Elev. 660.36

MATNEY BRANCH  
 BUILT 202 BY  
 OCONEE ROAD DISTRICT  
 SHELBY COUNTY  
 SEC. 19-11120-00-BR  
 T.R. 387 STATION 20+06.50  
 F.A. PROJ. NO. NB36(014)  
 STR. NO. 087-3599 LOADING HL-93

**NAME PLATE**  
 Locate Name Plate at S.W. Wingwall  
 Corner of Bridge (See Std. 515001)

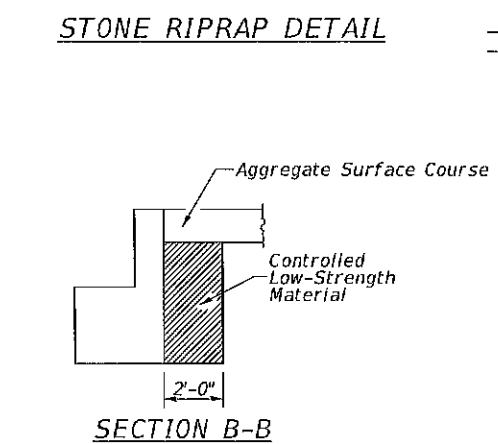
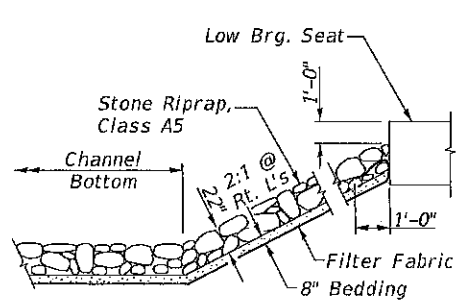
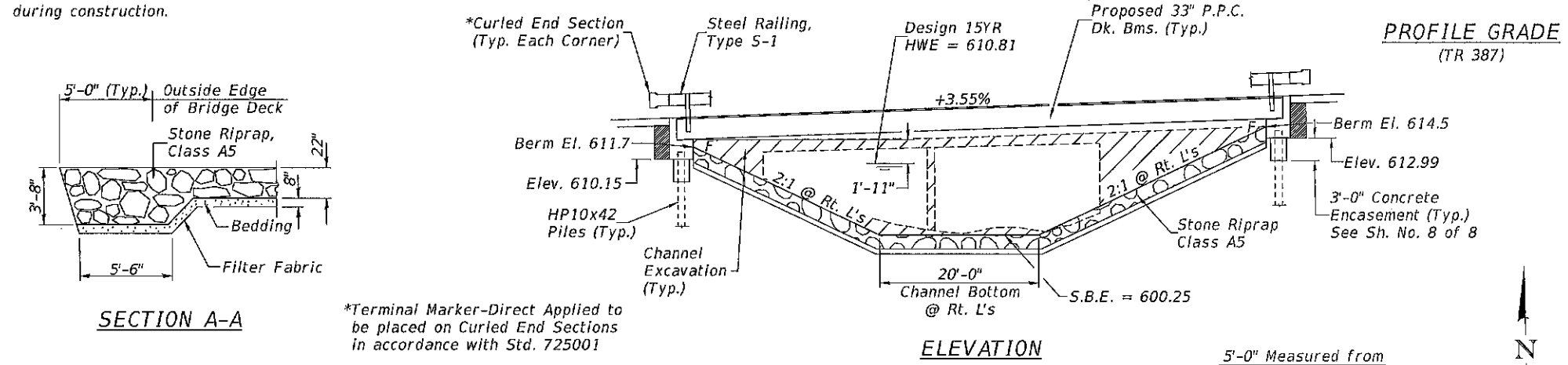


**Existing Structure:**  
 Two span steel beam bridge with a timber deck on closed abutments with exposed timber piles and a pier consisting of a timber beam supported by timber piles. The structure is 48'-4" back to back of abutments, 20'-2" out to out deck, and is not skewed. Str. No. 087-3236

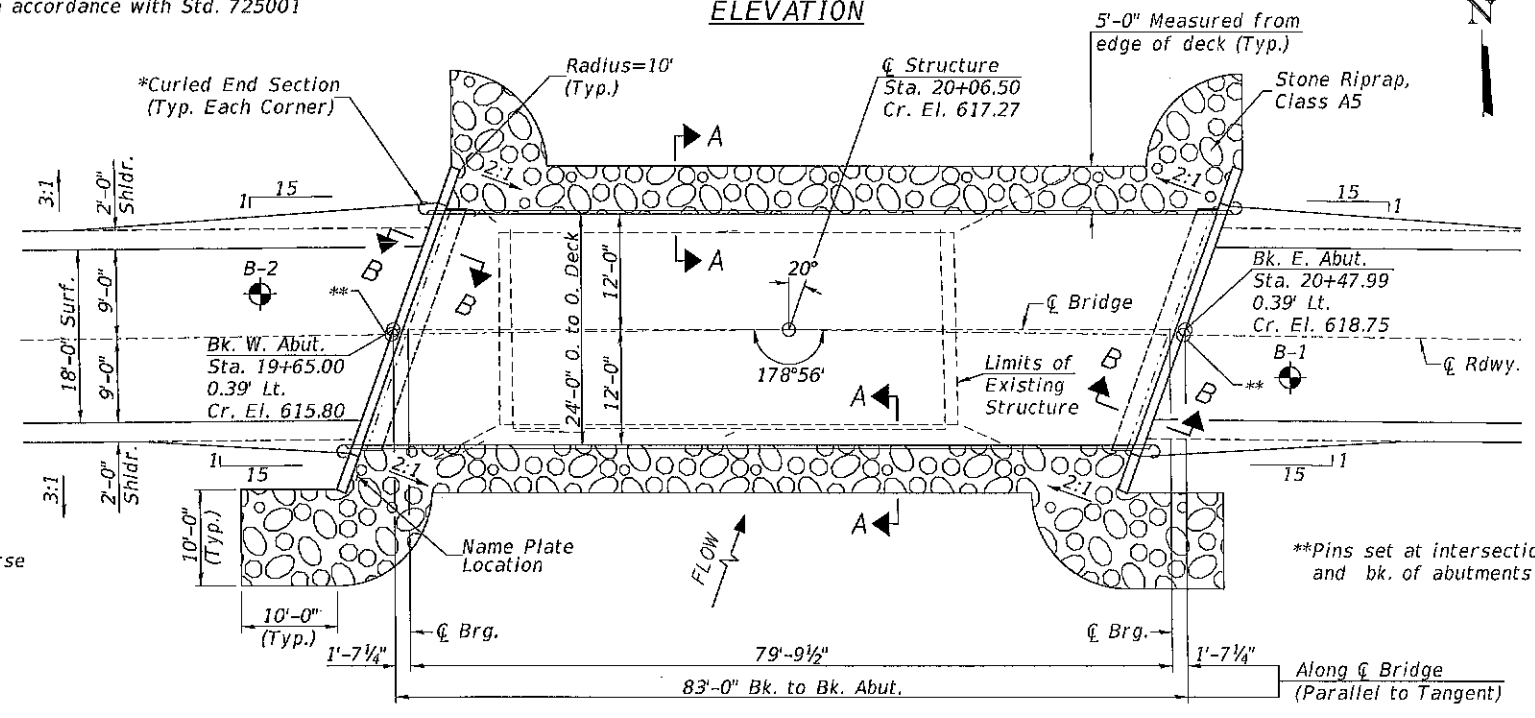
Salvage: None

Road to be closed to traffic during construction.

**GENERAL NOTES**  
 For Soil Boring Logs, See Special Provisions.  
 A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Articles 1020.05(b)(10) and 1021.07 of the Standard Specifications.  
 Reinforcement Bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
 The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.  
 The existing structural steel coating may contain lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.  
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



\*Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 725001



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)			Item 113
	W. Abut.	E. Abut.	
Q100	610.15	612.99	8
Q200	610.15	612.99	
Design	610.15	612.99	
Check	610.15	612.99	

WATERWAY INFORMATION

Drainage Area = 5.34 Sq. Mi.		Low Grade Elev. = 613.81 @ Sta. 18+68.15					
Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Headwater El. Prop.
Design	15	1,692	343	434	610.81	0.23	611.04
Base	100	2,750	384	514	612.05	0.65	612.70

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

(FIELD UNITS) f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (Rein.)  
 (PRECAST PRESTRESSED UNITS) f'c = 6,000 p.s.i. f'ci = 5,000 p.s.i. f's = 270,000 p.s.i. (1/2" Strands) f'si = 201,960 p.s.i. (1/2" Strands)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

TOTAL BILL OF MATERIAL

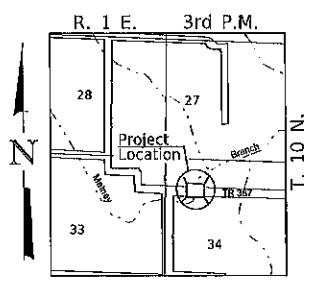
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD		340	340
Stone Riprap, Class A5	TON		515	515
Filter Fabric	SQ YD		380	380
① Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		35	35
Concrete Structures	CU YD		25.2	25.2
Concrete Encasement	CU YD		3.6	3.6
Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	1,944		1,944
Reinforcement Bars, Epoxy Coated	POUND		2,680	2,680
Steel Railing, Type S1	FOOT	166		166
Furnishing Steel Piles HP10x42	FOOT		316	316
Driving Piles	FOOT		316	316
Test Pile Steel HP10x42	EACH		2	2
Name Plates	EACH		1	1
① Controlled Low-Strength Material	CU YD		19.0	19.0
Terminal Marker - Direct Applied	EACH	4		4

① See Special Provisions



I certify that to the best of my 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 current AASHTO Standard Specification for Highway Bridges. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

Illinois Structural No. 6527  
 Expires 11/30/2024



LOCATION SKETCH

**GENERAL PLAN & ELEVATION**  
 TOWNSHIP ROAD 387  
 OVER MATNEY BRANCH  
 SHELBY COUNTY  
 OCONEE ROAD DISTRICT  
 SECTION 19-11120-00-BR  
 STATION 20+06.50  
 STRUCTURE NO. 087-3599

USER NAME	DESIGNED	REVISIONS
= JSavage	- MMO	-
	DRAWN - MMO	REVISIONS -
	CHECKED - ZLJ/BAN	REVISIONS -
	DATE - 11/8/2021	REVISIONS -

**SHELBY COUNTY**  
**TOWNSHIP ROAD 387**  
**OVER MATNEY BRANCH**

GENERAL PLAN & ELEVATION

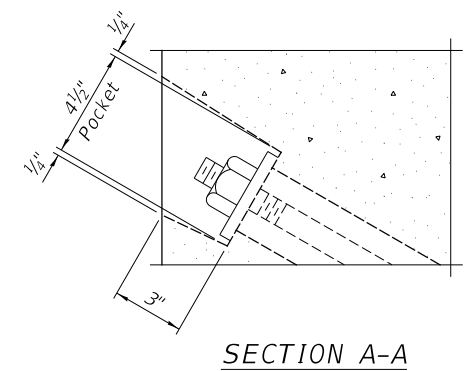
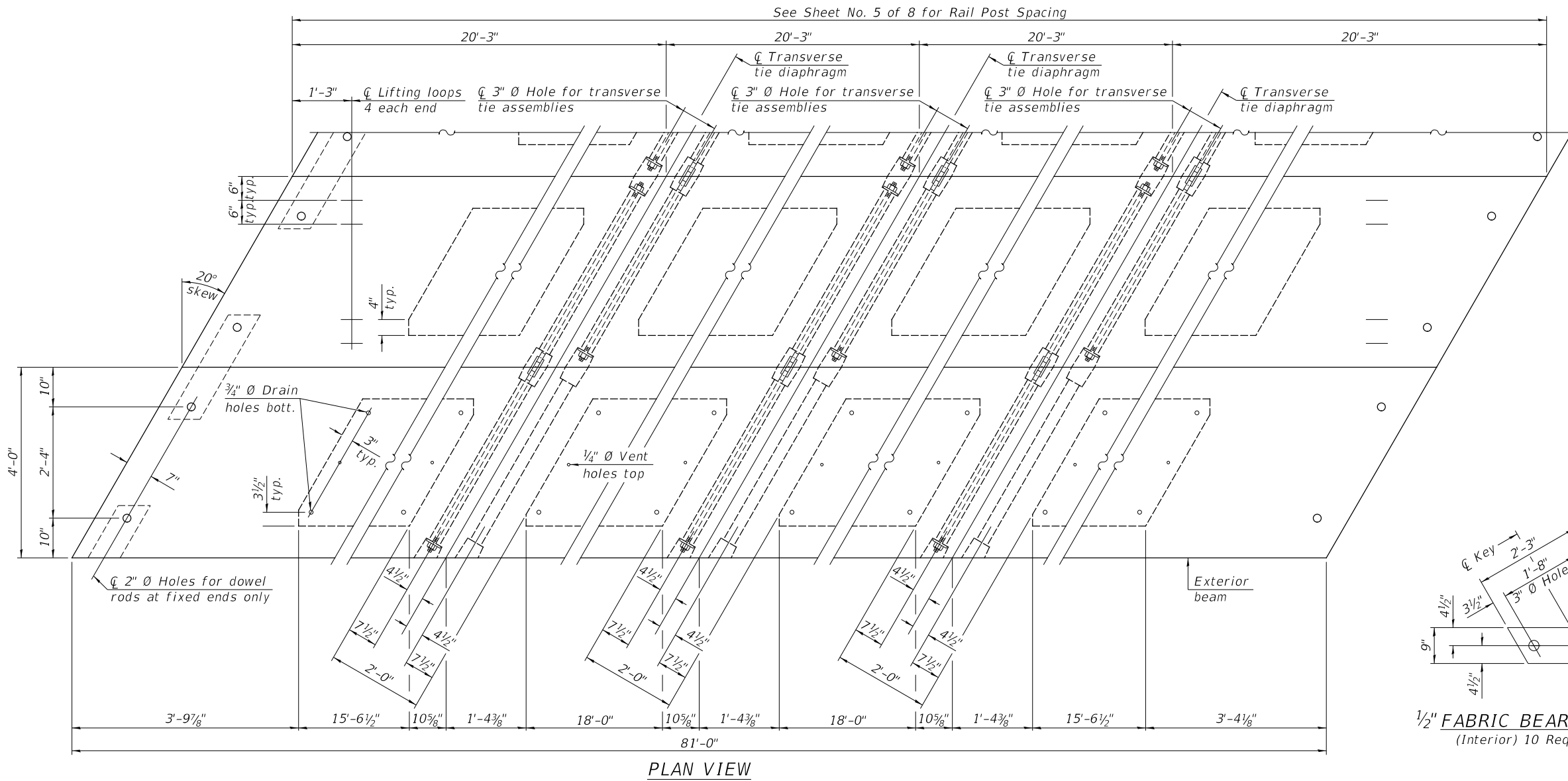
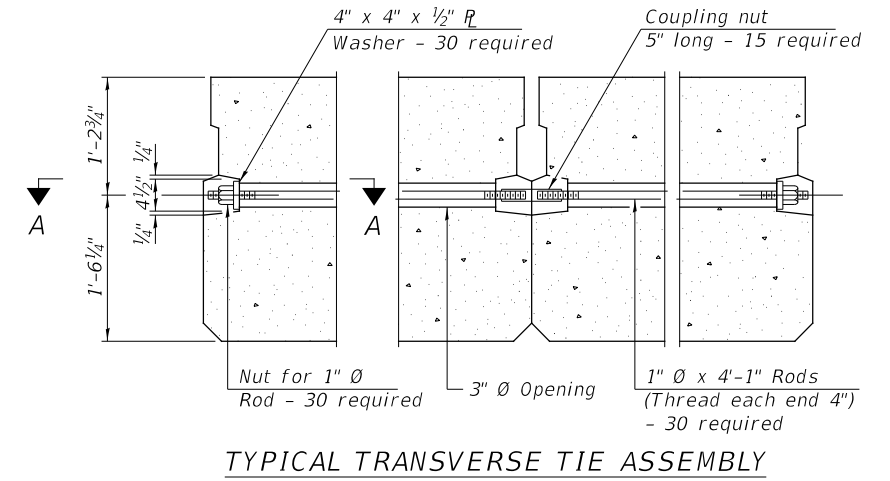
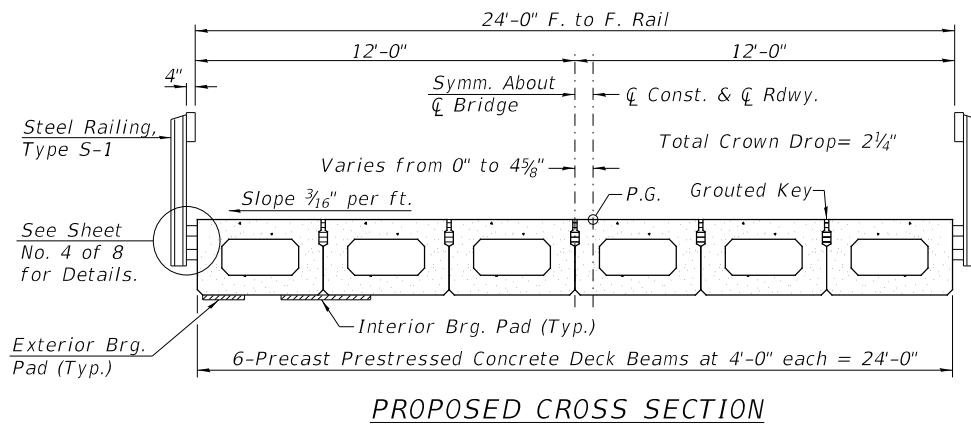
SCALE: NONE SHEET 1 OF 8 SHEETS

RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	7
S.N. 087-3599		CONTRACT NO. 95950		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NB36(014)		

MODEL: SMOELNAME; FILE NAME: V:\d55 - TR 387 over Matney Branch (Shelby)\CADD\Sheet\4655-001.dgn

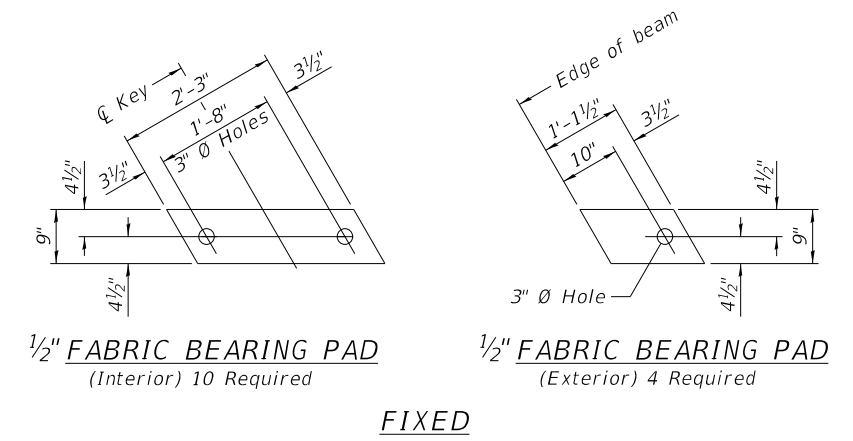
**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
 The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
 A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.  
 Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	1,944



Note: Connect beams in pairs with the transverse tie configuration shown.

MODEL: 140821.MXMS  
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PLOT DATE = 1/3/2024	CHECKED - ZL/BAN	REVISED -
	DATE - 10/1/2021	REVISED -

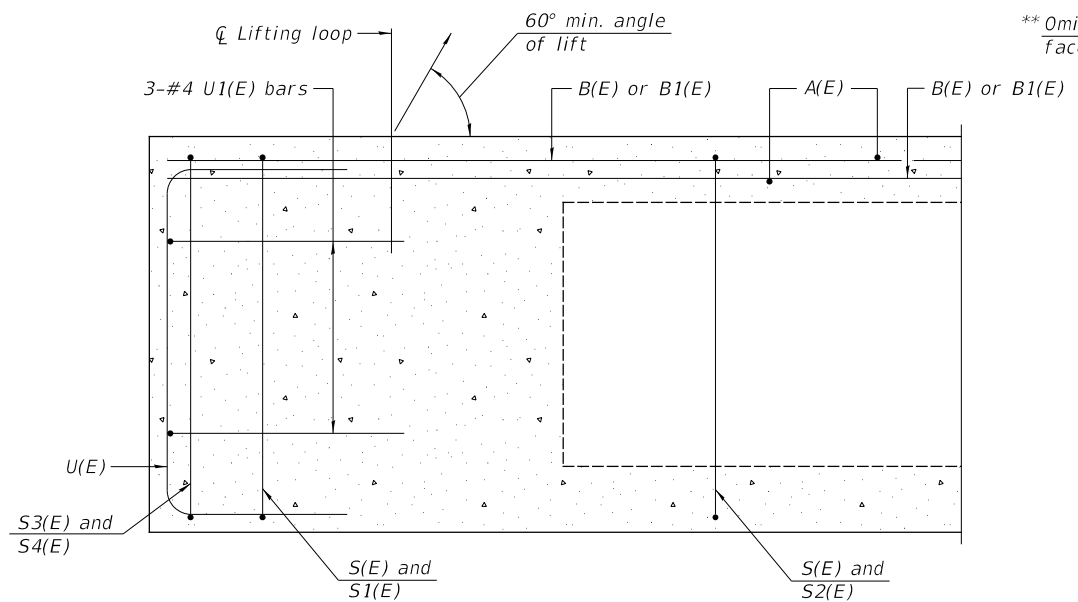
**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

SCALE: NONE SHEET 2 OF 8 SHEETS

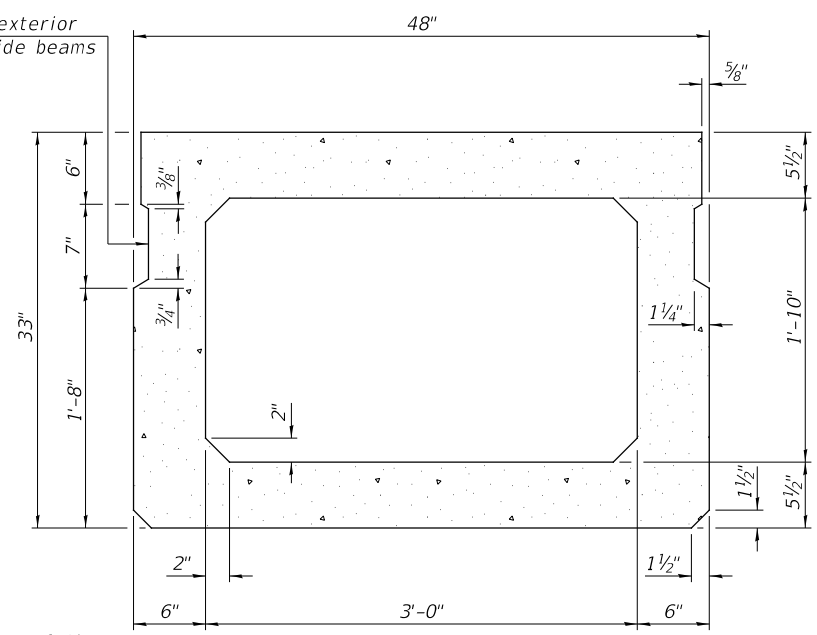
**SUPERSTRUCTURE**

RTS.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	8
	S.N. 087-3599		CONTRACT NO. 95950	
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT N836(014)	

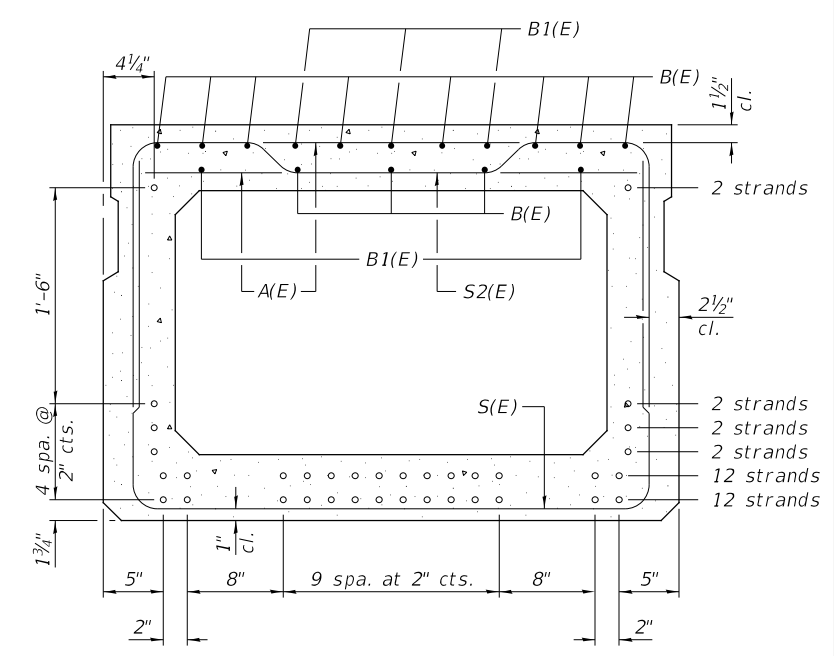




SECTION A-A



SECTION B-B  
(Showing dimensions)

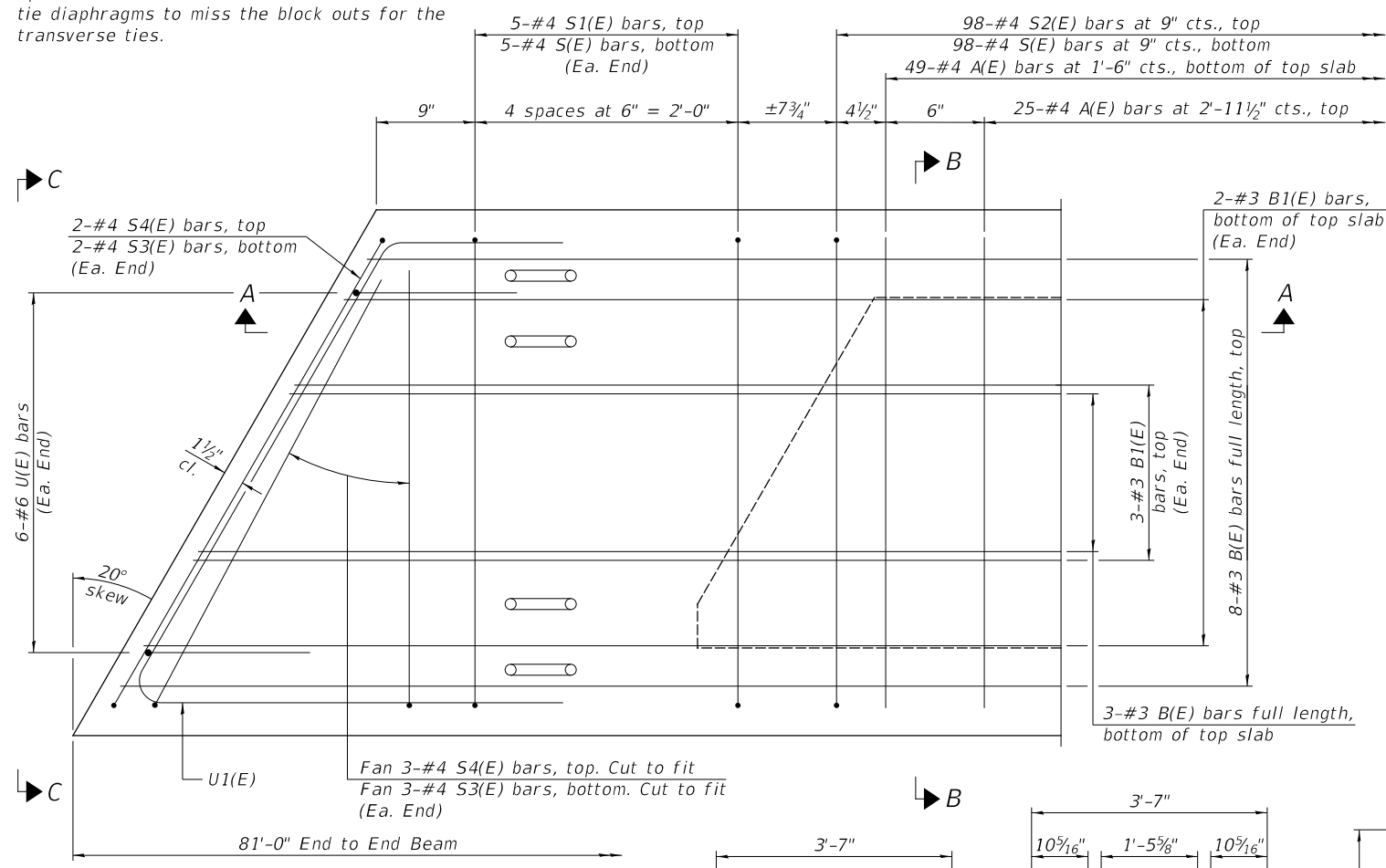


SECTION B-B

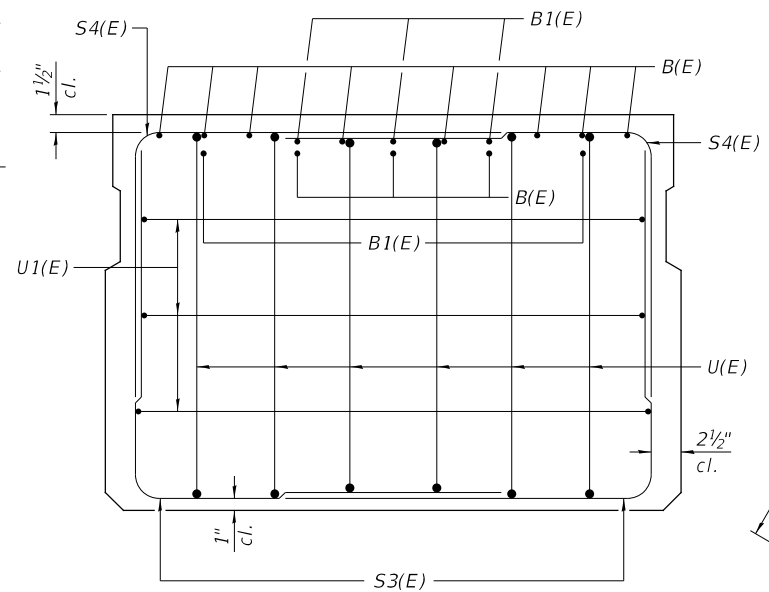
32-1/2" Ø Strands Each Strand Stressed to 30,900 Lbs.  
 12-Strands 1 3/4" up, 12-Strands 3 3/4" up, 2-Strands 5 3/4" up  
 2-Strands 7 3/4" up, 2-Strands 9 3/4" up, 2-Strands 27 3/4" up  
 Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

Note:  
 Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

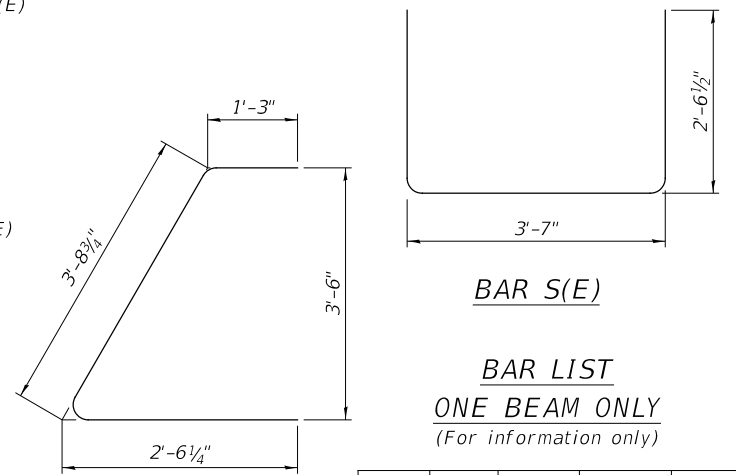
\*\*Rail post anchor devices (Sheet No. 4 of 8) to be cast into exterior face of outside beams.



PLAN VIEW



VIEW C-C



BAR S(E)

BAR LIST  
 ONE BEAM ONLY  
 (For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	74	#4	3'-7"	—
B(E)	11	#3	*80'-9"	—
B1(E)	10	#3	10'-0"	—
S(E)	108	#4	8'-8"	┌
S1(E)	10	#4	7'-5"	┌
S2(E)	98	#4	7'-8"	┌
S3(E)	10	#4	6'-2"	┌
S4(E)	10	#4	5'-6"	┌
U(E)	12	#6	5'-0"	┌
U1(E)	6	#4	7'-6"	┌

Note: See Sheet 2 of 8 for additional details and Bill of Material.

\*Total length, lap as necessary.

MINIMUM BAR LAP  
 #3 bar = 1'-6"

BAR S1(E)

BAR S2(E)

BAR S3(E)

BAR S4(E)

BAR U(E)

LIFTING LOOP DETAIL

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	DATE - 10/1/2021	REVISED -

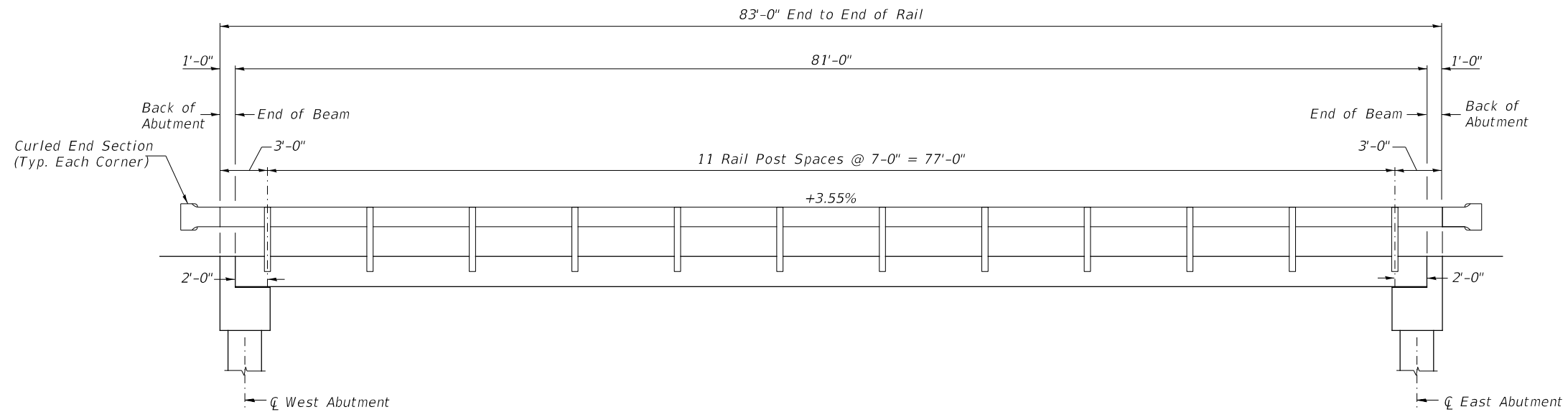
**SHELBY COUNTY  
 TOWNSHIP ROAD 387  
 OVER MATNEY BRANCH**

**SUPERSTRUCTURE DETAILS**

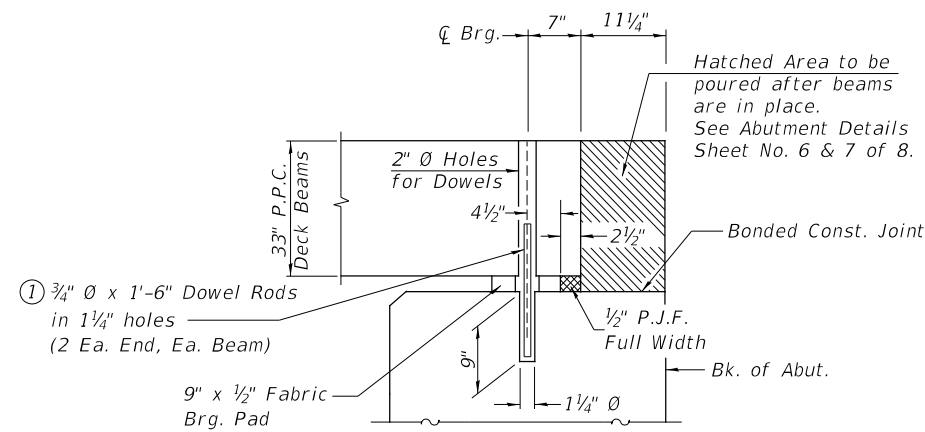
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TRT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	9
	S.N. 087-3599	CONTRACT NO.	95950	
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NB36(014)		





RAIL POST SPACING



SECTION THRU ABUTMENTS  
(At Right Angles)

① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

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FILE NAME: V:\955 - TR 387 over Matney Branch (Shelby)\CADD\CADD Sheets\465-8005.dgn

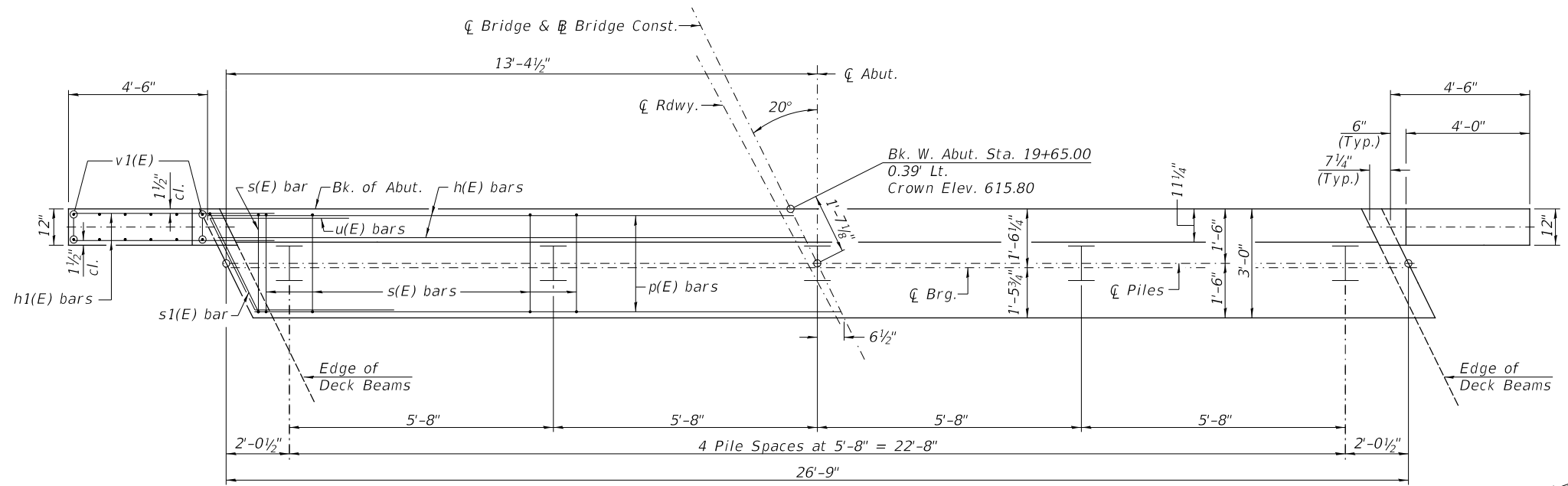
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**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

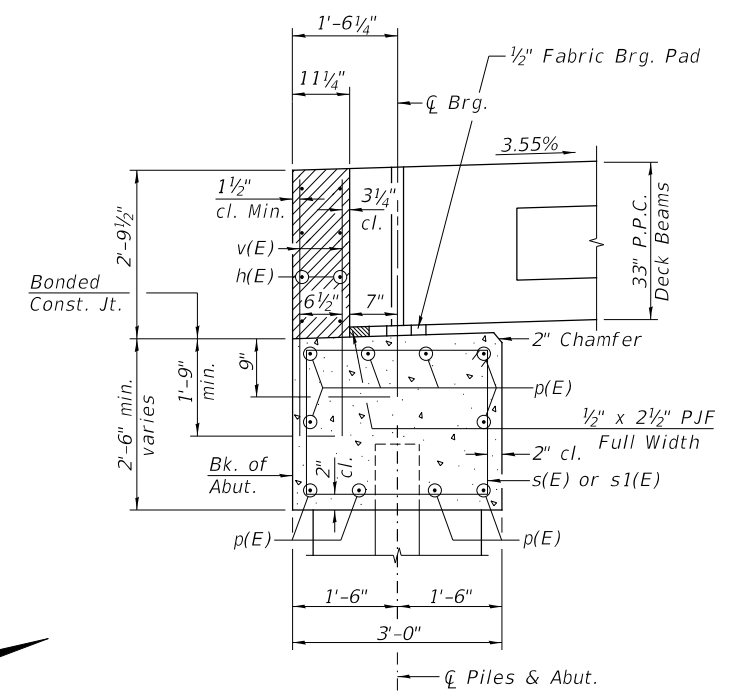
**RAIL POST SPACING &  
SUPERSTRUCTURE DETAILS**

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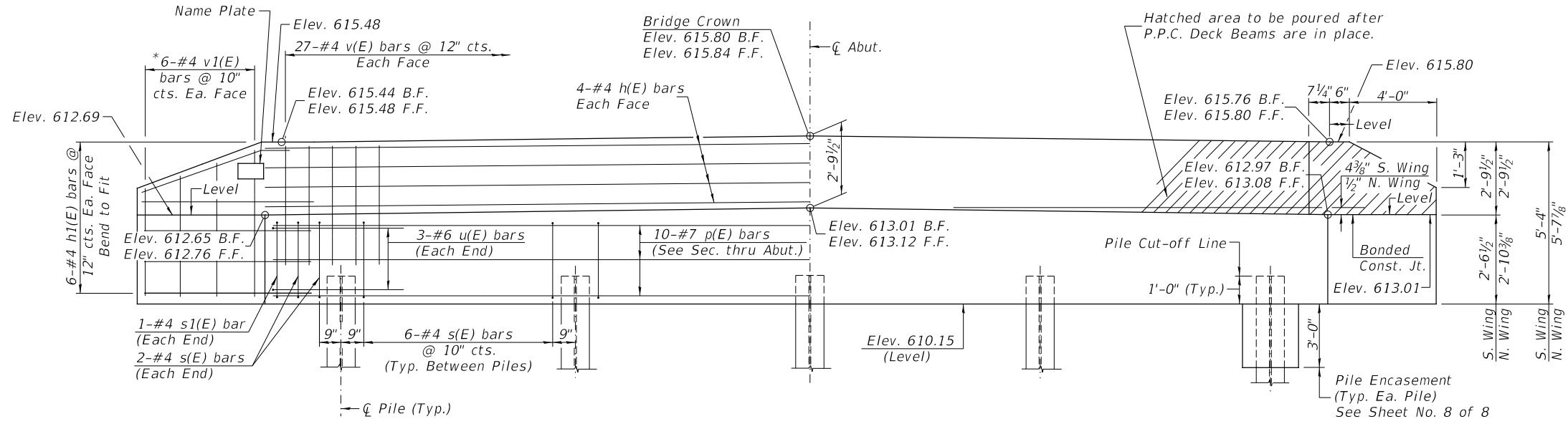
RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	11
S.N. 087-3599		CONTRACT NO. 95950		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NB36(014)		



PLAN



SECTION THRU ABUT.  
(At Right Angles)



ELEVATION  
(Front View of Abutment)

WEST ABUTMENT  
BILL OF MATERIAL

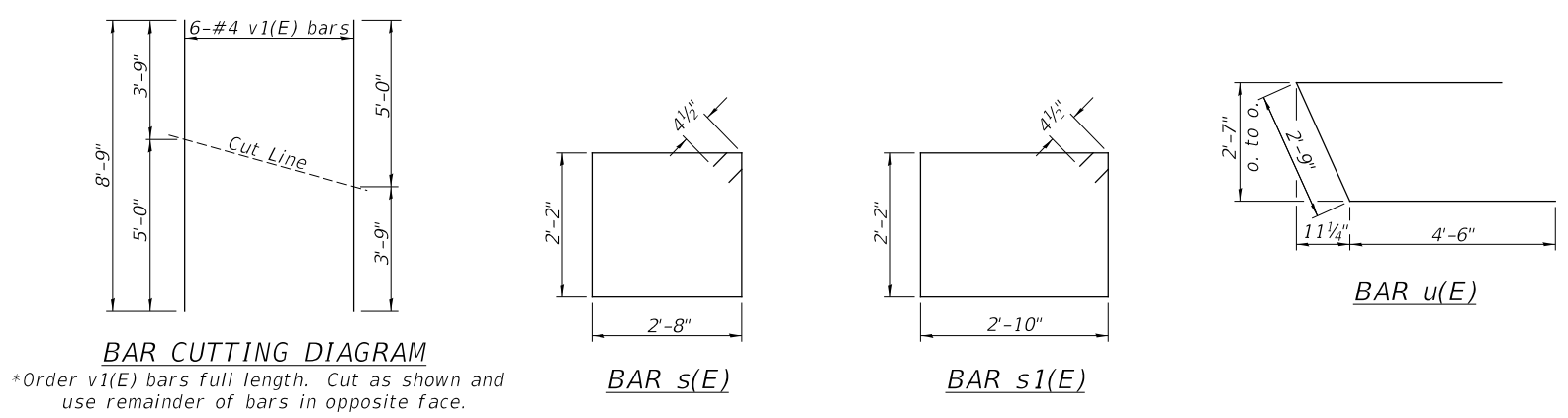
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	8	#4	26'-6"	—
h1(E)	24	#4	6'-6"	—
p(E)	10	#7	26'-6"	—
s(E)	28	#4	10'-5"	□
s1(E)	2	#4	10'-9"	□
u(E)	6	#6	11'-9"	∩
v(E)	54	#4	4'-6"	—
v1(E)	12	#4	8'-9"	—
Structure Excavation		CU YD	20	
Concrete Structures		CU YD	12.6	
Concrete Encasement		CU YD	1.8	
Reinforcement Bars, Epoxy Coated		POUND	1,340	
Furnishing Steel Piles HP10x42		FOOT	148	
Driving Piles		FOOT	148	
Test Pile Steel HP10x42		EACH	1	
Name Plates		EACH	1	

PILE DATA

Type & Size: Steel HP10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184 kips  
 Est. Length: 37'  
 No. Req'd.: 5 (Includes 1 Test Pile)

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- All edges shall have standard 3/4" chamfer.



BAR CUTTING DIAGRAM

\*Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face.

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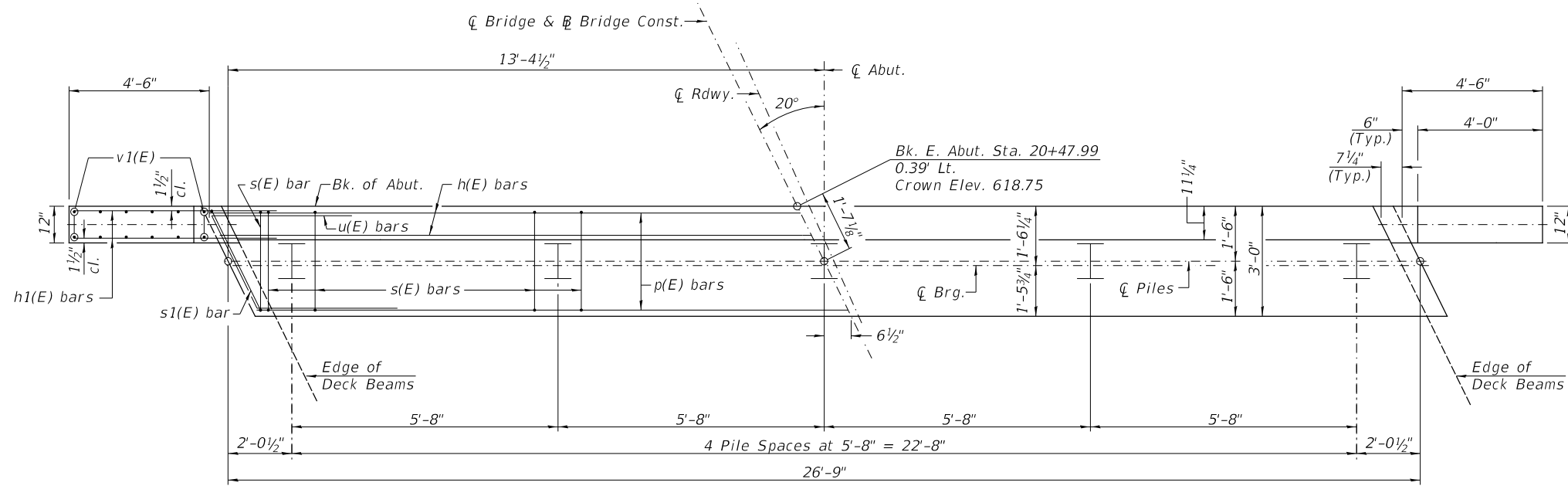
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DRAWN - MMO	REVISIONS -	
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PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISIONS -

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

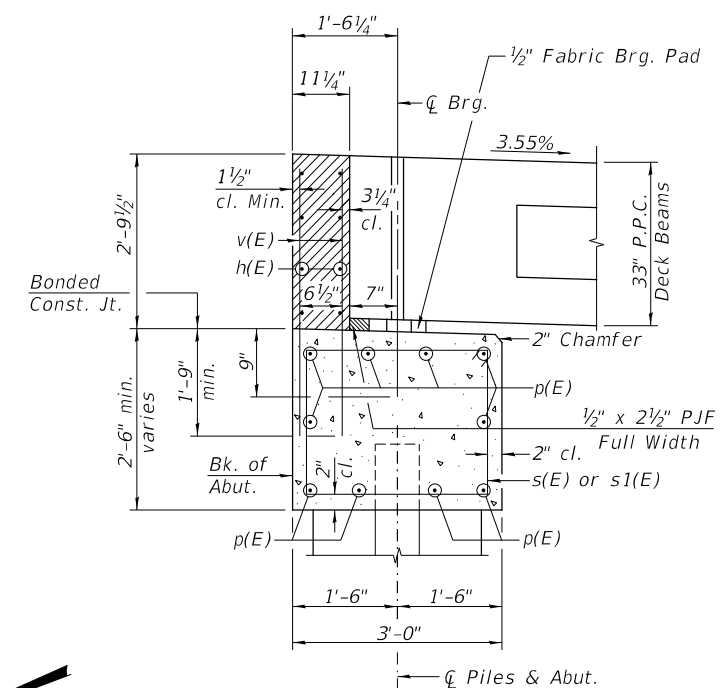
WEST ABUTMENT

SCALE: NONE SHEET 6 OF 8 SHEETS

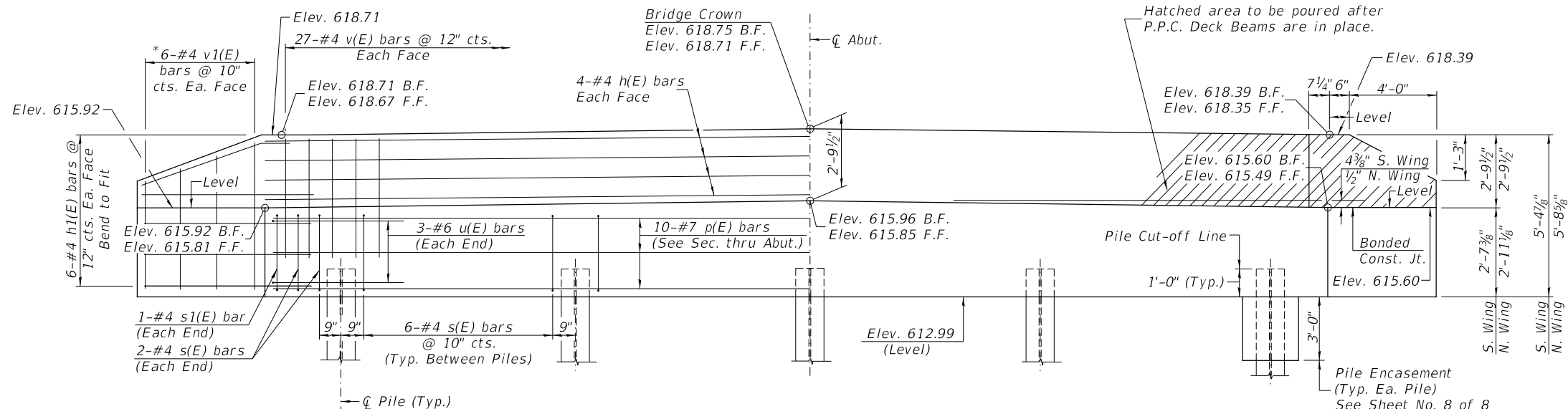
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TR 387	19-11120-00-BR	SHELBY	19	12
	S.N. 087-3599		CONTRACT NO. 95950	
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NB36(014)		



PLAN



SECTION THRU ABUT.  
(At Right Angles)



ELEVATION  
(Front View of Abutment)

EAST ABUTMENT  
BILL OF MATERIAL

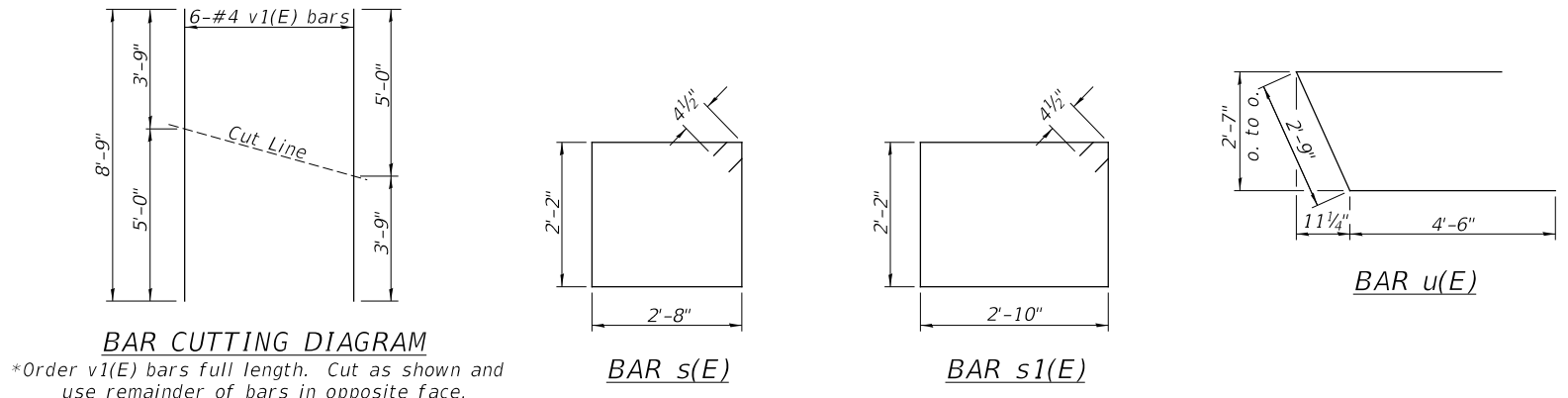
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	8	#4	26'-6"	—
h1(E)	24	#4	6'-6"	—
p(E)	10	#7	26'-6"	—
s(E)	28	#4	10'-5"	□
s1(E)	2	#4	10'-9"	□
u(E)	6	#6	11'-9"	∩
v(E)	54	#4	4'-6"	—
v1(E)	12	#4	8'-9"	—
Structure Excavation		CU YD	15	
Concrete Structures		CU YD	12.6	
Concrete Encasement		CU YD	1.8	
Reinforcement Bars, Epoxy Coated		POUND	1,340	
Furnishing Steel Piles HP10x42		FOOT	168	
Driving Piles		FOOT	168	
Test Pile Steel HP10x42		EACH	1	

PILE DATA

Type & Size: Steel HP10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184 kips  
 Est. Length: 42'  
 No. Req'd.: 5 (Includes 1 Test Pile)

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- All edges shall have standard 3/4" chamfer.



BAR CUTTING DIAGRAM

\*Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite face.

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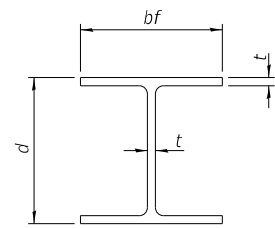
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PLOT DATE = 1/3/2024	CHECKED - ZL/BAN	REVISED -
	DATE - 10/1/2021	REVISED -

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**EAST ABUTMENT**

SCALE: NONE SHEET 7 OF 8 SHEETS

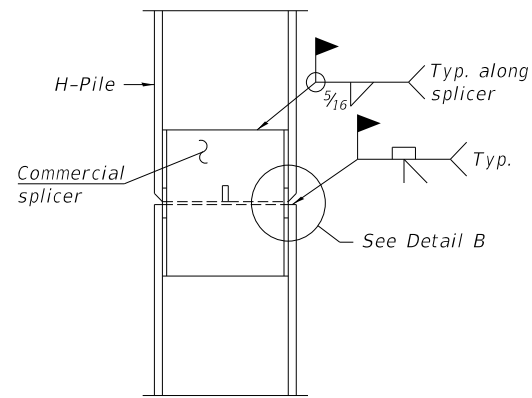
RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	13
	S.N. 087-3599		CONTRACT NO. 95950	
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT N836(014)	



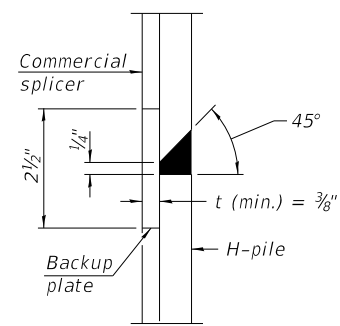
**STEEL PILE TABLE**

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

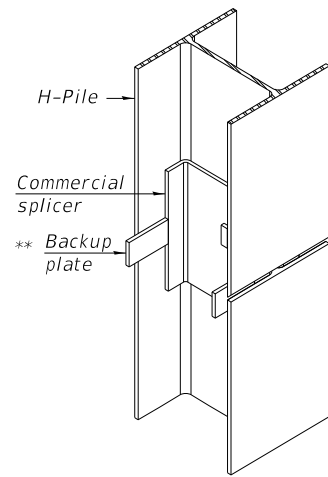


**ELEVATION**

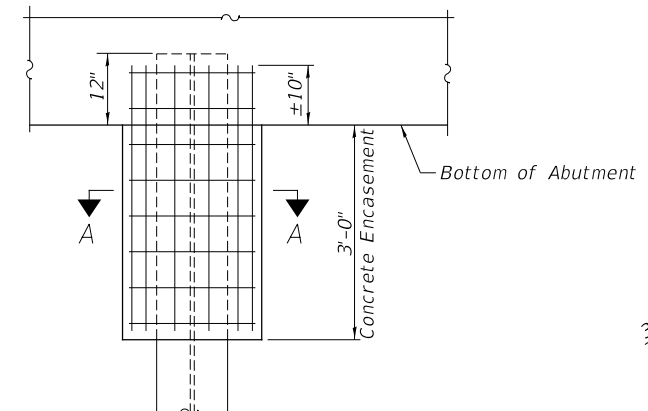


**DETAIL "B"**

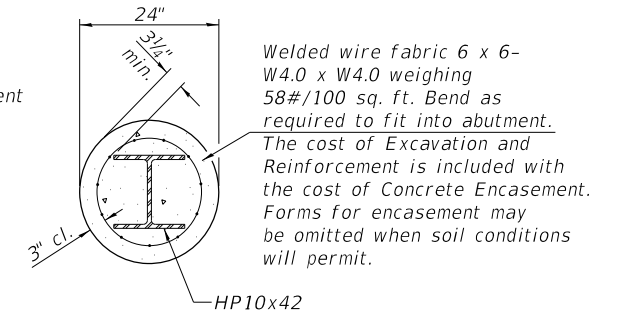
**WELDED COMMERCIAL SPLICE**



**ISOMETRIC VIEW**

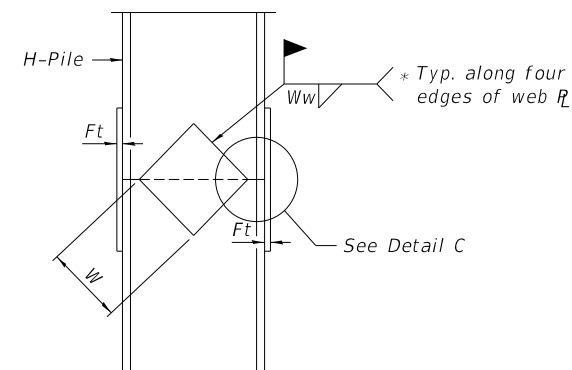


**ABUTMENT ELEVATION**

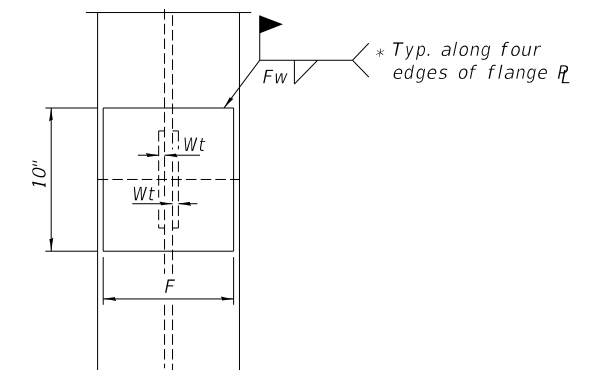


**SECTION A-A**

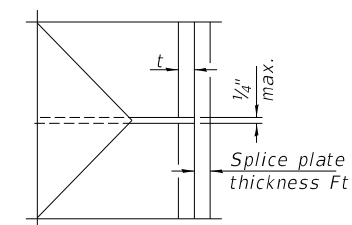
**PILE ENCASEMENT**



**ELEVATION**



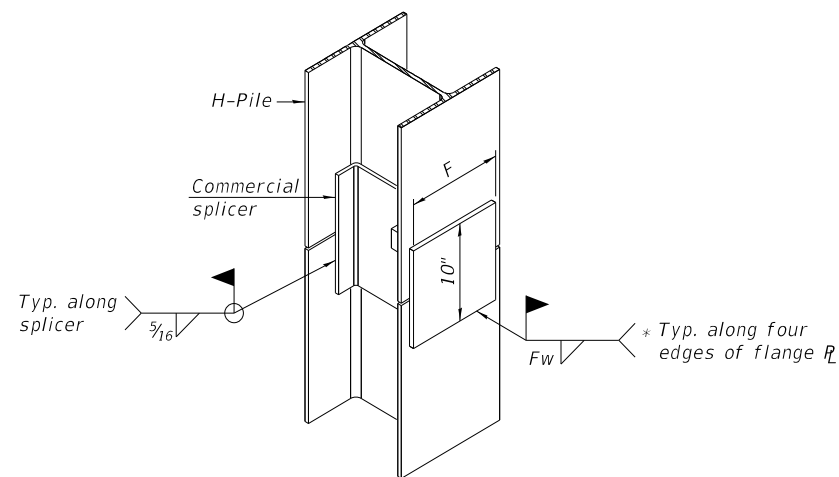
**END VIEW**



**DETAIL C**

**WELDED PLATE FIELD SPLICE**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

\* Interrupt welds 1/4" from end of web and/or each flange.  
\*\* Remove portions of backup plates that extend outside the flanges.

MODEL: 44061.MMTS  
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USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
PLOT SCALE = 100.0000 ' / in.	DRAWN - MMO	REVISED - _____
PLOT DATE = 1/3/2024	CHECKED - ZL/BAN	REVISED - _____
	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**HP PILE DETAILS**

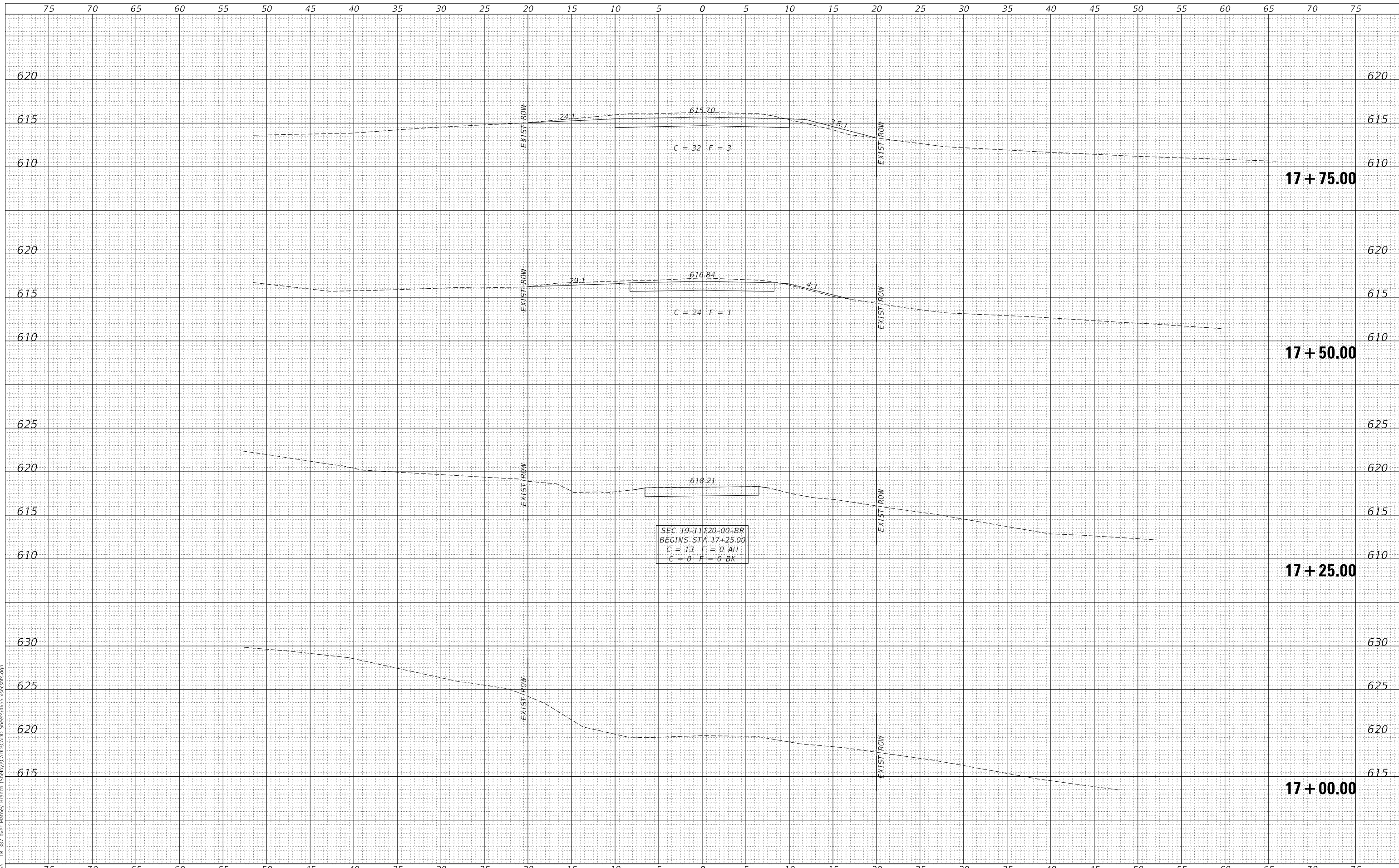
SCALE: NONE SHEET 8 OF 8 SHEETS

TR 387	SECTION 19-11120-00-BR	COUNTY SHELBY	TOTAL SHEETS 19	SHEET NO. 14
S.N. 087-3599		CONTRACT NO. 95950		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT N836(014)		

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

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

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	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**CROSS SECTIONS**

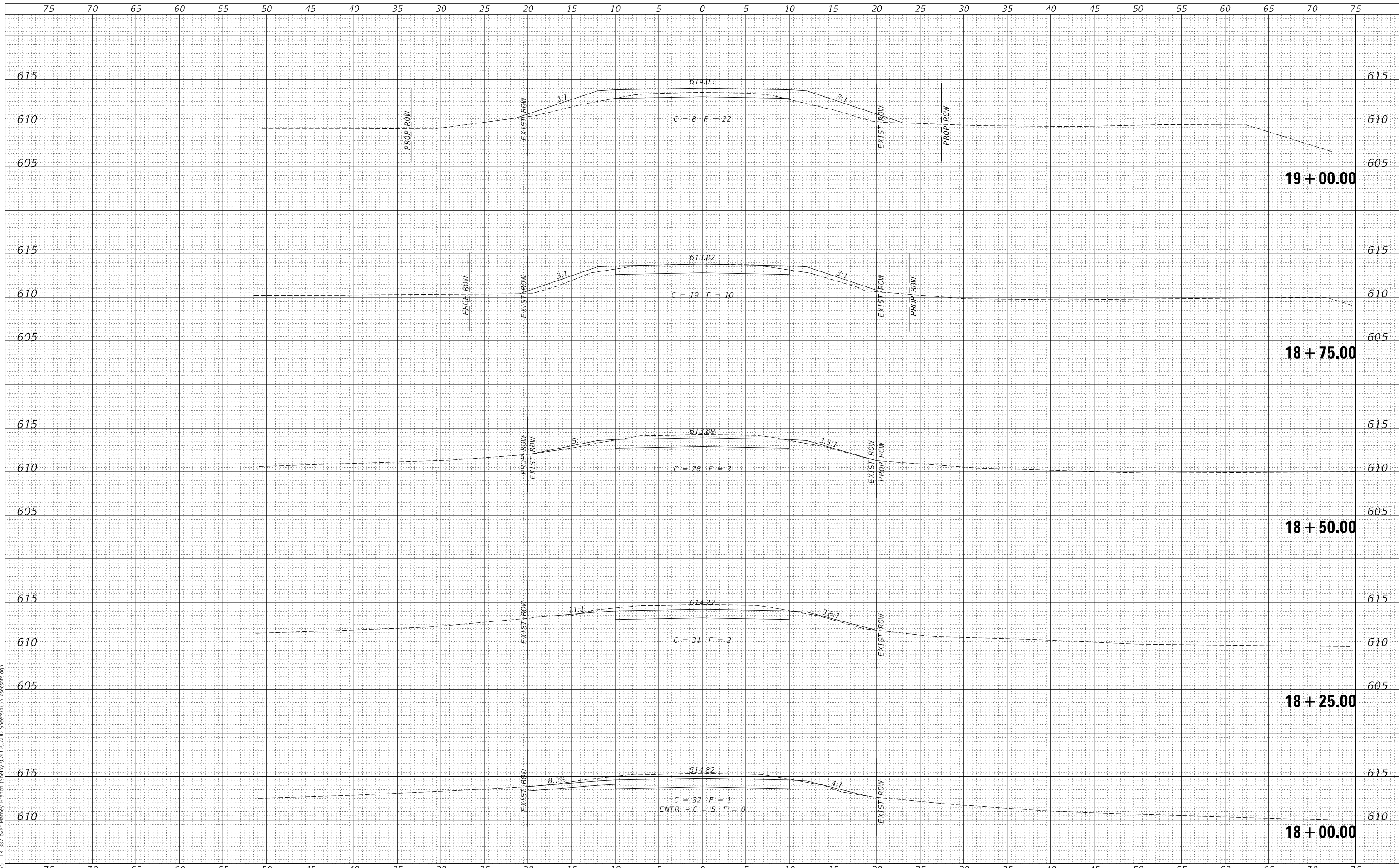
SCALE: 1"=5' SHEET 1 OF 5 SHEETS STA. 17+00.00 TO STA. 17+75.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	15
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 95950	
			FED. AID PROJECT NB36(014)	

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

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

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USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**CROSS SECTIONS**

SCALE: 1"=5' SHEET 2 OF 5 SHEETS STA. 18+00.00 TO STA. 19+00.00

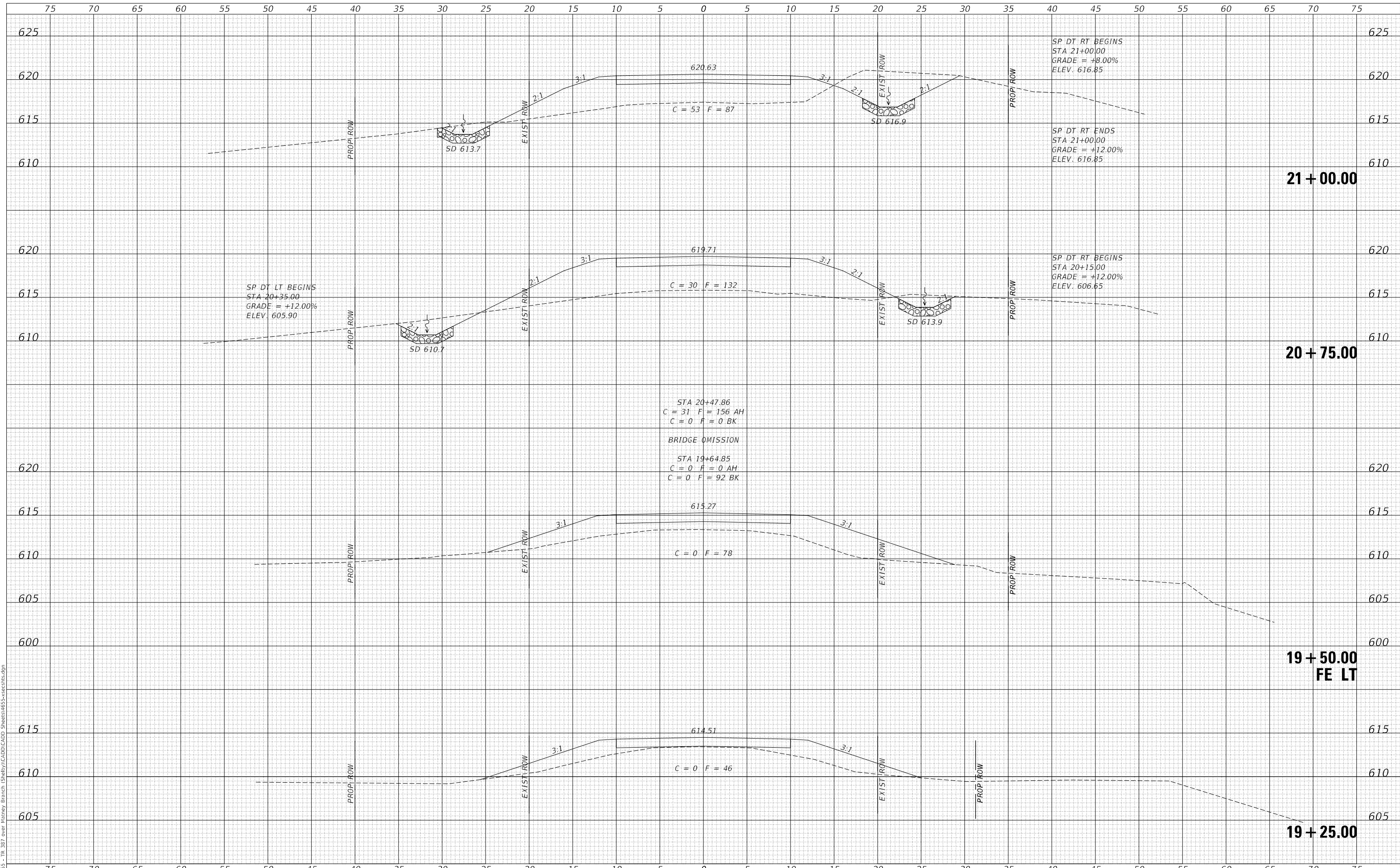
RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	16
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 95950	
			FED. AID PROJECT NB36(014)	



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

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

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USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
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PLOT SCALE = 10.0000' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**CROSS SECTIONS**

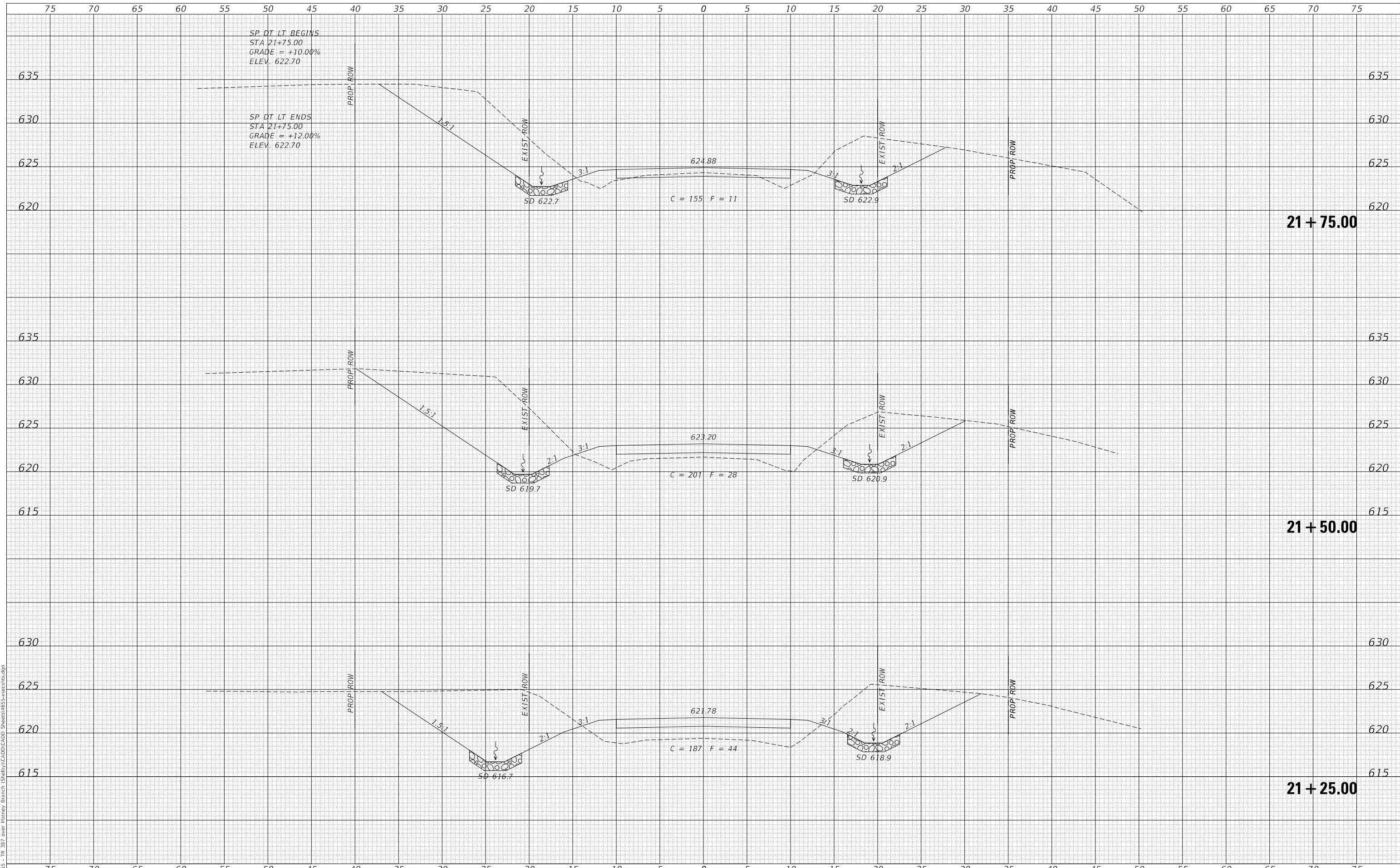
SCALE: 1"=5' SHEET 3 OF 5 SHEETS STA. 19+25.00 TO STA. 21+00.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	17
		CONTRACT NO. 95950		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT N836(014)		

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

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

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USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**CROSS SECTIONS**

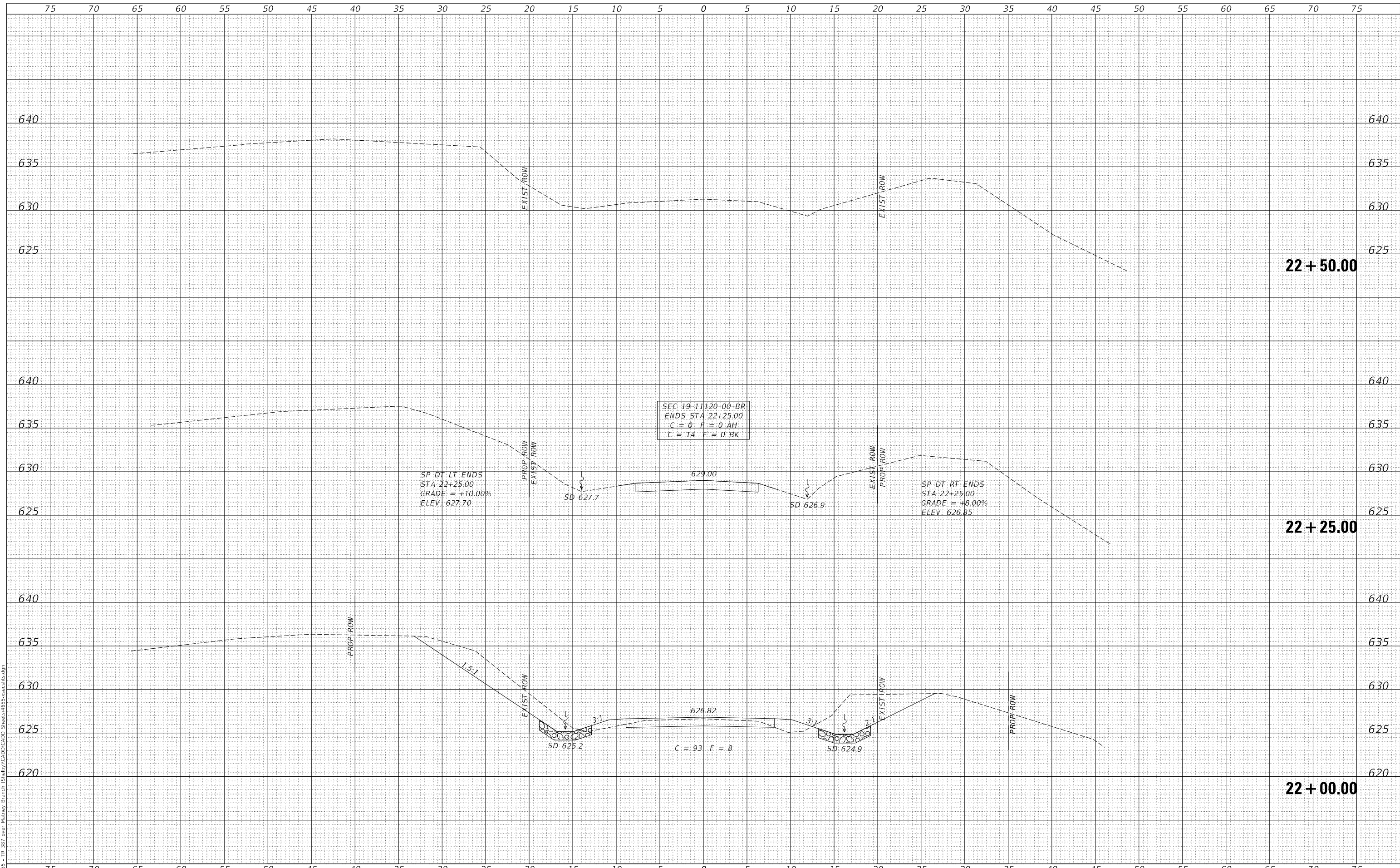
SCALE: 1"=5' SHEET 4 OF 5 SHEETS STA. 21+25.00 TO STA. 21+75.00

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	18
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 95950	
			FED. AID PROJECT NB36(014)	

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

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

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USER NAME = JSavage	DESIGNED - MMO	REVISED - _____
	DRAWN - MMO	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - JPS/BAN	REVISED - _____
PLOT DATE = 1/3/2024	DATE - 10/1/2021	REVISED - _____

**SHELBY COUNTY  
TOWNSHIP ROAD 387  
OVER MATNEY BRANCH**

**CROSS SECTIONS**

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

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 387	19-11120-00-BR	SHELBY	19	19
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 95950	
			FED. AID PROJECT NB36(014)	