

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
BRIDGE REPLACEMENT
STP-BRIDGE

TR ROUTE 51 (LICKSKILLET ROAD)
SANGAMON TOWNSHIP
SECTION 20-06132-00-BR
PROJECT 6A5M(450)
PIATT COUNTY

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	J
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91600	
			6A5M(450)	

INDEX OF SHEETS

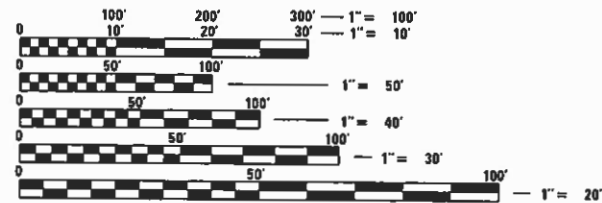
- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
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- 13 - 22 BRIDGE PLANS
- 23 - 30 CROSS SECTIONS

STANDARDS (IN PROPOSAL)

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



FUNCTIONAL CLASSIFICATION - LOCAL ROAD
ADT = 50(2005)
DESIGN SPEED = 30 MPH
3R GUIDELINES



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 EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER: CORY W. CHAMBERLAIN, P.E., S.E.

CONTRACT NO. 91600



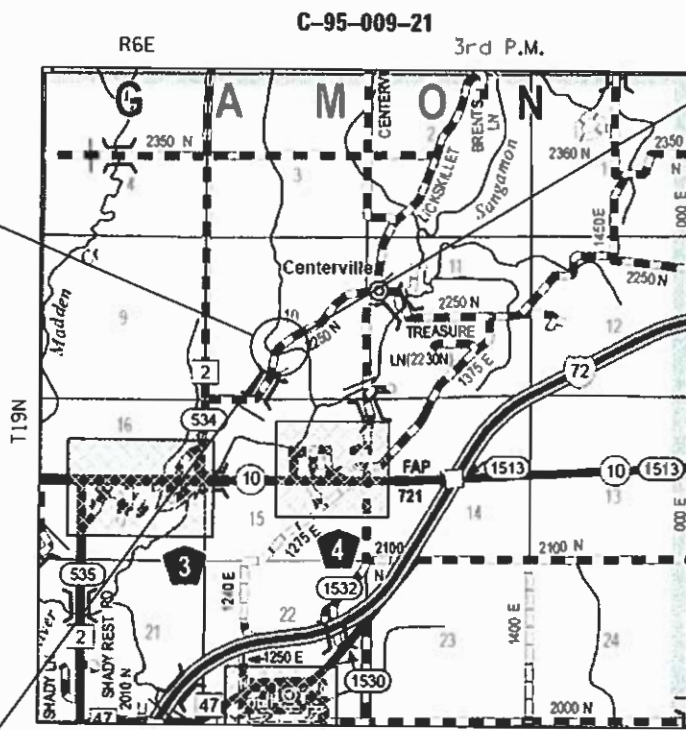
IMPROVEMENTS ENDS
STA. 12 + 00.00

UTILITY COMPANIES:

AMERENCILCO - (NORTH)
6 EXECUTIVE DRIVE
COLLINSVILLE, IL 62234
PHONE: (618)-301-5327
CONTACT: NATHAN HILL

FRONTIER COMMUNICATIONS
109 E. MARKET ST.
BLOOMINGTON, IL 61701
PHONE: (815) 895-1515
CONTACT: KALIN HINSHAW

IMPROVEMENTS BEGINS
STA. 7 + 75.00



LOCATION MAP SCALE
LOCATION MAP

TOTAL LENGTH = 425 FEET (0.080 MI)
NET LENGTH = 425 FEET (0.080 MI)

PROPOSED
SECTION 20-06132-00-BR
BEGINS STA. 7 + 75.00
ENDS STA. 12 + 00.00
PROPOSED STRUCTURE
NO. 074-3313



Cory W. Chamberlain
Expires: 11/30/2021 2-4-2021

APPROVED February 3 20 21
COUNTY ENGINEER

APPROVED February 3 20 21
ROAD COMMISSIONER

PASSED FEBRUARY 10 20 21
DISTRICT FIVE ENGINEER OF LOCAL ROADS AND STREETS

Released For Bid Based on Limited Review February 9 20 21
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGE (S.N. 074-3043) AND CONSTRUCTING A NEW STRUCTURE (S.N. 074-3313) AT STA. 9+95.00 WITH A SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS 27'-0" CLEAR ROADWAY AND 54'-0" BACK TO BACK OF ABUTMENTS, 0° SKEW, VARIABLE WIDTH TRANSITION APPROACHES AND OTHER COLLATERAL WORK.

GENERAL NOTES

1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
2. ALL ELEVATIONS ARE BASED ON NAVD 88-DATUM.
3. WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
4. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
5. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED, UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
6. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE
 AGGREGATE BASE COURSE: 2.05 TONS/CU YD
 RIPRAP: 1.50 TONS/CU YD
 HOT-MIX ASPHALT: 112 LBS/SQ YD/IN
7. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
8. DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
9. THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
10. THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.

GENERAL NOTES

11. CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED, REPAIRED AND CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
12. EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
13. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
14. CONTRACTOR SHALL VERIFY THE LENGTH OF REQUIRED PIPE CULVERTS PRIOR TO ORDERING.
15. PAVEMENT REMOVAL TO INCLUDE THE EXISTING AGGREGATE BASE COURSE AND OIL AND CHIP SURFACE TREATMENT.
16. 2" HIGH PRESSURE GAS LINE IS NOT RELOCATED. CONTRACTOR TO WATCH AND PROTECT. SEE SPECIAL PROVISIONS.

COMMITMENTS

1. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED BETWEEN APRIL 1 AND SEPTEMBER 30.
2. THE BRIDGE BAT ASSESSMENT EXPIRES 11/5/2022. A VALID ASSESSMENT IS REQUIRED PRIOR TO PERFORMING ANY WORK BELOW THE EXISTING BRIDGE DECK SURFACE

MIX DESIGN INFORMATION	
LOCATION	TR 51
MIXTURE USE(S)	2" HMA SURFACE
AC/PG	PG 64-22
DESIGN AIR VOIDS	4.0% @ N=50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5
FRICTION AGGREGATE	MIX C
QUALITY MANAGEMENT	QC/QA

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design firm
no. 184001036



engineers + planners + land surveyors

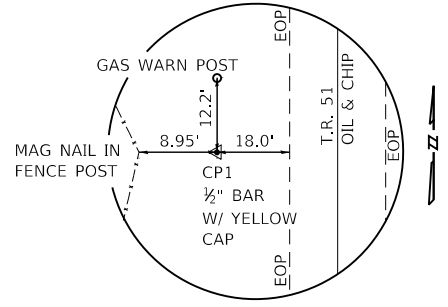
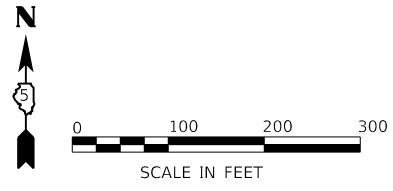
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PLOT DATE = 2/3/2021	CHECKED - BJJ/CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND COMMITMENTS
T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

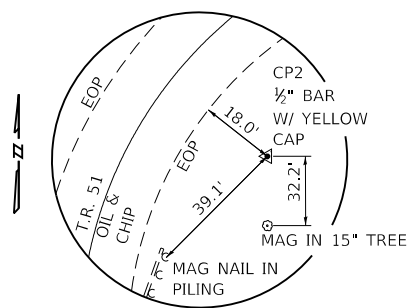
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T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	2
CONTRACT NO. 91600				
ILLINOIS			FED. AID PROJECT 6A5M(450)	



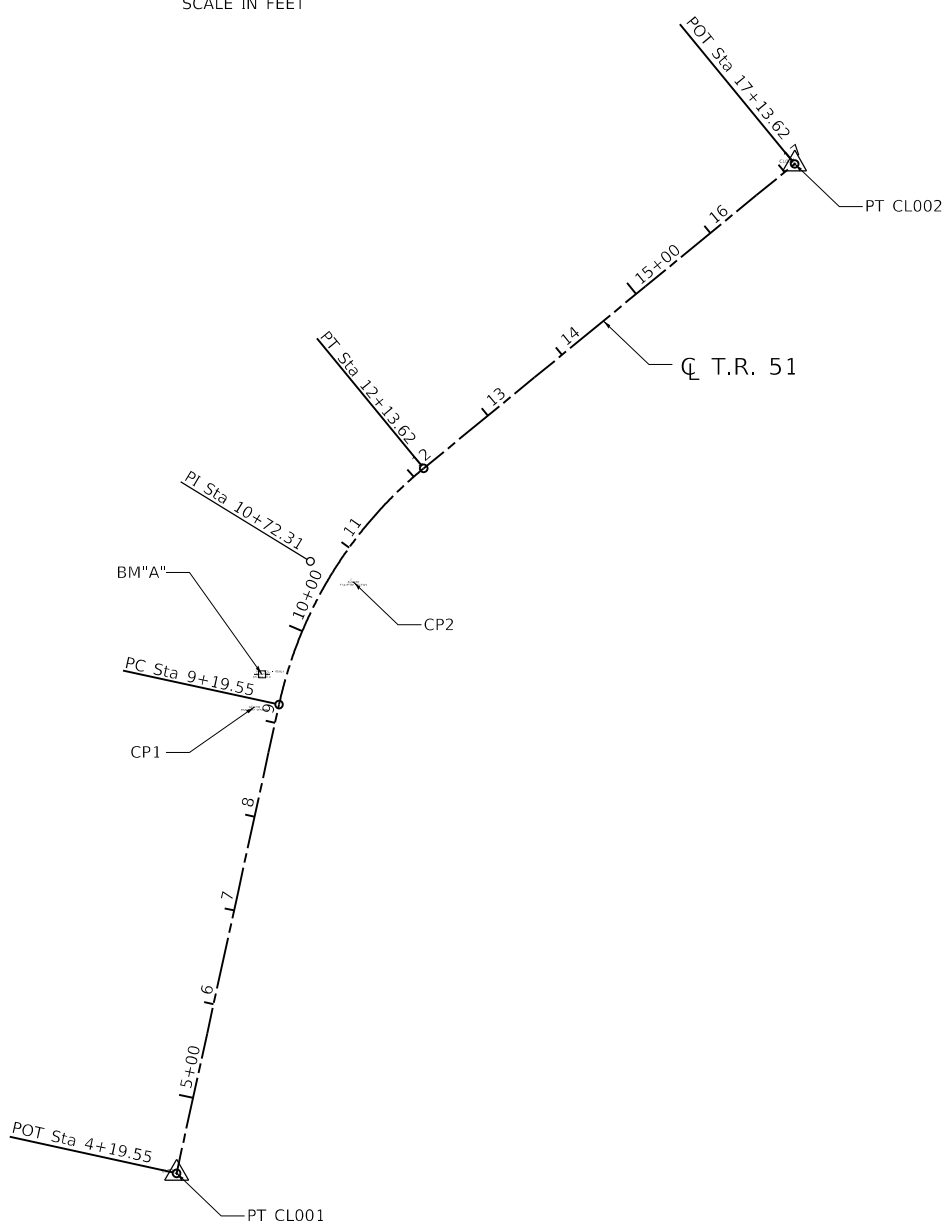
CONTROL POINT C.P.1

1/2" BAR W/ YELLOW CAP
 STA. 9+11.42, 24.56' LT
 N 1,256,423.243
 E 934,137.346



CONTROL POINT C.P.2

1/2" BAR W/ YELLOW CAP
 STA. 10+71.80, 23.70' RT
 N 1,256,553.539
 E 934,240.500



BM "A" STA 9+45.10, 24.89 LT
 RR SPIKE SET IN POWER POLE APPROX. 25' S.W. OF OF BRIDGE
 ELEVATION = 662.82

Beginning chain TR51 description

Point CL001 N 1,255,937.482 E 934,056.270 Sta 4+19.55
 Course from CL001 to PC TR511 N 12° 20' 04.7" E Dist 500.000

Curve Data

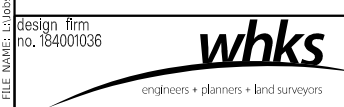
Curve TR511
 P.I. Station 10+72.31 N 1,256,575.176 E 934,195.713
 Delta = 38° 17' 33.1" (RT)
 Degree = 13° 01' 18.4"
 Tangent = 152.762
 Length = 294.066
 Radius = 440.000
 External = 25.764
 Long Chord = 288.623
 Mid. Ord. = 24.339
 P.C. Station 9+19.55 N 1,256,425.941 E 934,163.080
 P.T. Station 12+13.62 N 1,256,672.083 E 934,313.803
 C.C. N 1,256,331.947 E 934,592.924
 Back = N 12° 20' 04.7" E
 Ahead = N 50° 37' 37.8" E
 Chord Bear = N 31° 28' 51.2" E

Course from PT TR511 to CL002 N 50° 37' 37.8" E Dist 500.000

Point CL002 N 1,256,989.265 E 934,700.321 Sta 17+13.62

Ending chain TR51 description

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PLOT DATE = 2/3/2021	CHECKED - BJJ/CWC	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	3
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT 6A5M(450)				

				CONSTR. CODE
				ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0010
				S.N. 074-3414
Δ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	197	197
20200100	EARTH EXCAVATION	CU YD	153	153
20300100	CHANNEL EXCAVATION	CU YD	65	65
20400800	FURNISHED EXCAVATION	CU YD	180	180
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100
28000400	PERIMETER EROSION BARRIER	FOOT	777	777
28100109	STONE RIPRAP, CLASS A5	SQ YD	408	408
28200200	FILTER FABRIC	SQ YD	408	408
35101400	AGGREGATE BASE COURSE, TYPE B	TON	339	339
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	25	25
44000100	PAVEMENT REMOVAL	SQ YD	578	578
48101200	AGGREGATE SHOULDERS, TYPE B	TON	167	167
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	101	101

Δ SPECIALTY ITEMS

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design firm
no. 184001036



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PLOT DATE = 2/3/2021	DRAWN - GSJ	REVISED
	CHECKED - BJJ/CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	4
ILLINOIS FED. AID PROJECT				645M(450)

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0010
				S.N. 074-3414
50300225	CONCRETE STRUCTURES	CU YD	31.8	31.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1409	1409
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4890	4890
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	105	105
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	216	216
51202305	DRIVING PILES	FOOT	216	216
51203200	TEST PILE METAL SHELLS	EACH	2	2
51500100	NAME PLATES	EACH	1	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	157	157
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	251	251
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	49.2	49.2
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2
60100905	PIPE DRAINS 4"	FOOT	20	20
60100915	PIPE DRAINS 6"	FOOT	20	20

Δ SPECIALTY ITEMS

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no. 184001036



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
T.R. 51 OVER SANGAMON RIVER TRIBUTARY

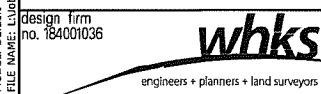
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51	20-06132-00-BR	PIATT	30	5
			CONTRACT NO. 91600	
			ILLINOIS FED. AID PROJECT 6A5M(450)	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0010 S.N. 074-3414
60100925	PIPE DRAINS 8"	FOOT	20	20
60100935	PIPE DRAINS 10"	FOOT	20	20
60100945	PIPE DRAINS 12"	FOOT	20	20
△ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
67100100	MOBILIZATION	L SUM	1	1
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
X0324079	EXISTING FIELD TILE REMOVAL	FOOT	40	40
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
Z0022800	FENCE REMOVAL	FOOT	282	282

△ SPECIALTY ITEMS

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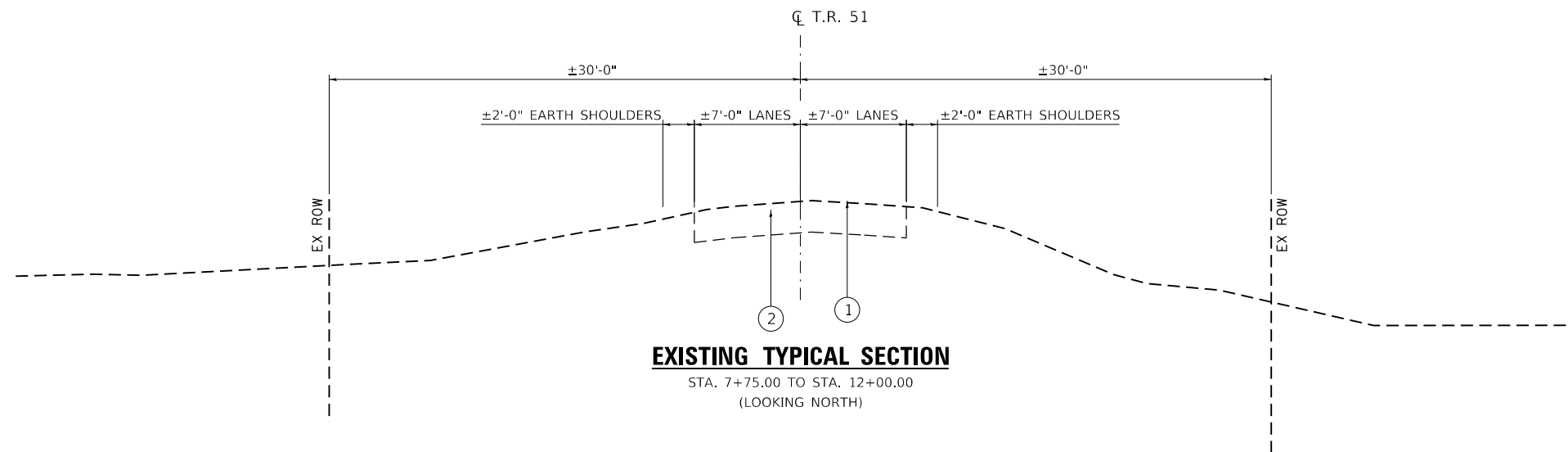
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
T.R. 51 OVER SANGAMON RIVER TRIBUTARY			
SCALE: 1" = 50'	SHEET 3	OF 3 SHEETS	STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91600	
			6A5M(450)	

LEGEND

- ① EX OIL & CHIP
- ② EX AGGREGATE BASE COURSE
- ③ PR AGGREGATE BASE COURSE, TYPE B (8")
- ④ PR AGGREGATE SHOULDERS, TYPE B (8")
- ⑤ PR EARTH SHOULDERS
- ⑥ FURNISHED EXCAVATION
- ⑦ PR GUARD RAIL



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

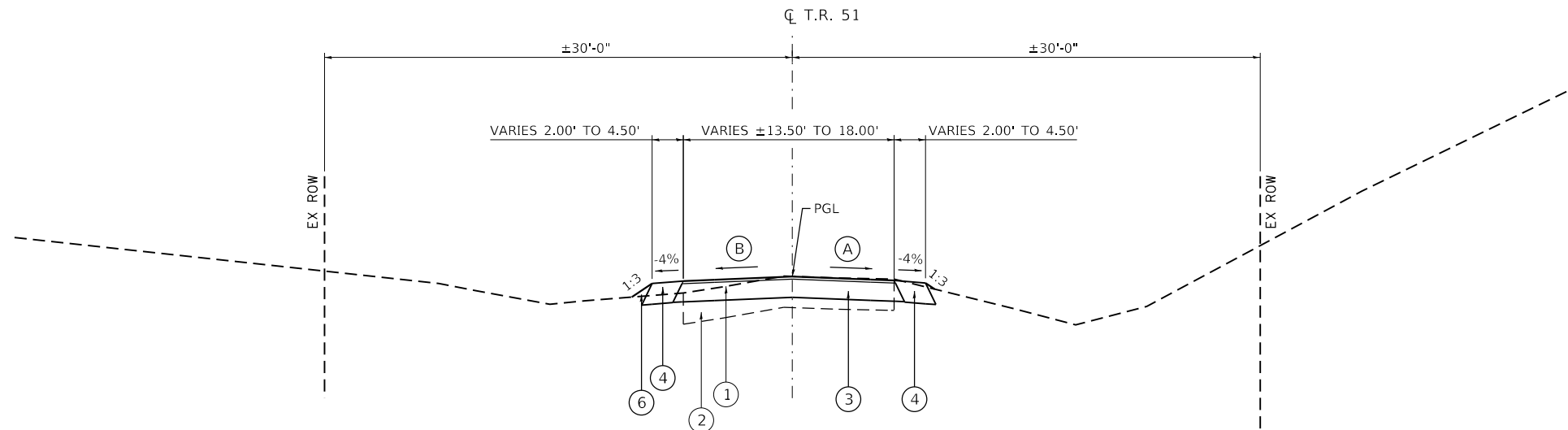
TYPICAL SECTIONS
T.R. 51 OVER SANGAMON RIVER TRIBUTARY

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	7
CONTRACT NO. 91600				
		ILLINOIS	FED. AID PROJECT	6A5M(450)

LEGEND

- ① EX OIL & CHIP
- ② EX AGGREGATE BASE COURSE
- ③ PR AGGREGATE BASE COURSE, TYPE B (8")
- ④ PR AGGREGATE SHOULDERS, TYPE B (8")
- ⑤ PR EARTH SHOULDERS
- ⑥ FURNISHED EXCAVATION
- ⑦ PR GUARD RAIL



PROPOSED TYPICAL SECTION

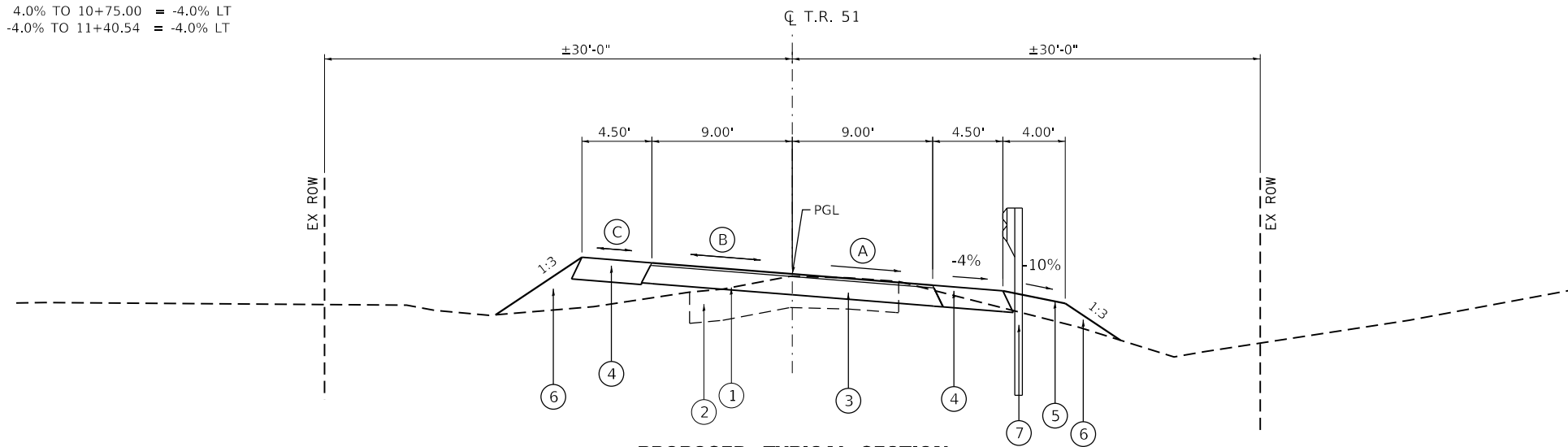
STA. 7+75.00 TO STA. 8+43.69
(LOOKING NORTH)

Ⓐ 7+75.00 = -1.9% TO 8+51.00 = -2.0% RT
 9+01.00 = -2.0% TO 9+43.00 = -4.0% RT
 9+43.00 = -4.0% TO 9+43.00 = -4.0% RT
 9+43.00 = -4.0% TO 11+50.00 = -4.0% RT
 11+50.00 = -4.0% TO 12+00.00 = -10.9% RT

Ⓑ 7+75.00 = -8.1% TO 8+60.00 = -2.0% LT
 8+60.00 = -2.0% TO 8+76.00 = 0.0% LT
 8+76.00 = 0.0% TO 9+01.00 = 2.0% LT
 9+01.00 = 2.0% TO 9+43.00 = 4.0% LT
 9+43.00 = 4.0% TO 11+50.00 = 4.0% LT
 11+50.00 = 4.0% TO 12+00.00 = -3.3% LT

Ⓒ 8+43.69 = -4.0% TO 9+00.00 = -4.0% LT
 9+00.00 = -4.0% TO 9+50.00 = 4.0% LT
 9+50.00 = 4.0% TO 10+25.00 = 4.0% LT
 10+25.00 = 4.0% TO 10+75.00 = -4.0% LT
 10+75.00 = -4.0% TO 11+40.54 = -4.0% LT

BRIDGE OMISSION:
 STA. 9+67.98 TO STA. 10+22.02 (SN 074-3313)



PROPOSED TYPICAL SECTION

STA. 8+43.69 TO STA. 9+67.98
(LOOKING NORTH)

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**STATE OF ILLINOIS
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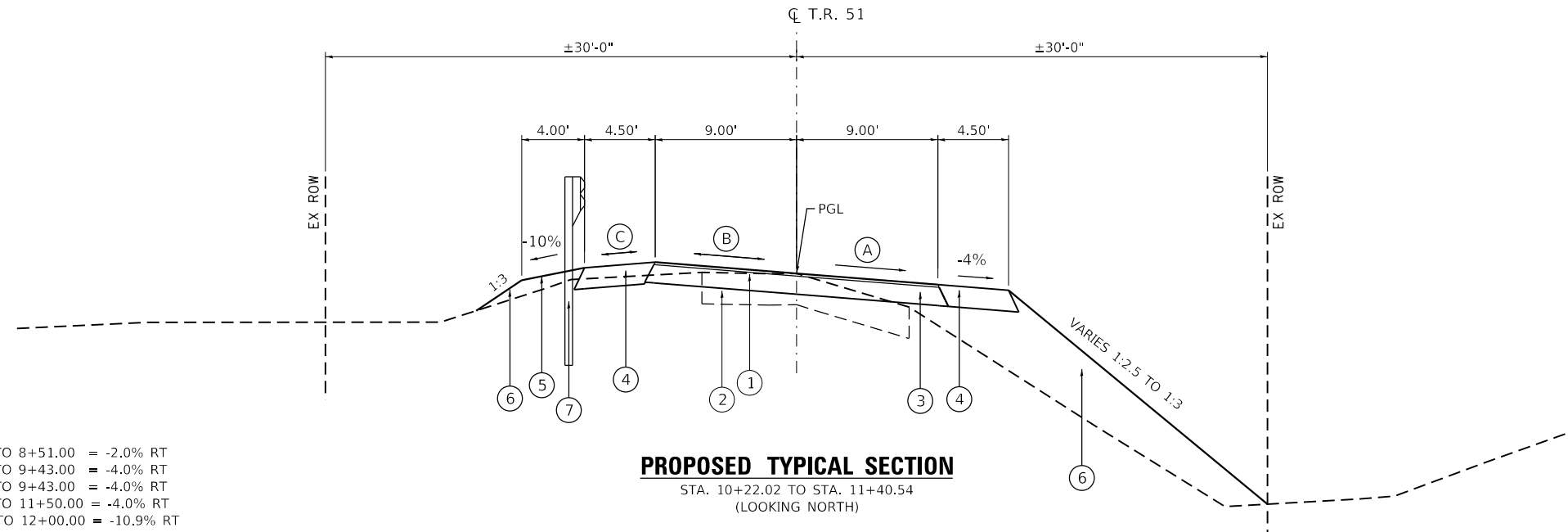
**TYPICAL SECTIONS
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1" = 5' SHEET 2 OF 3 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	8
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT			6A5M(450)	

LEGEND

- ① EX OIL & CHIP
- ② EX AGGREGATE BASE COURSE
- ③ PR AGGREGATE BASE COURSE, TYPE B (8")
- ④ PR AGGREGATE SHOULDERS, TYPE B (8")
- ⑤ PR EARTH SHOULDERS
- ⑥ FURNISHED EXCAVATION
- ⑦ PR GUARD RAIL

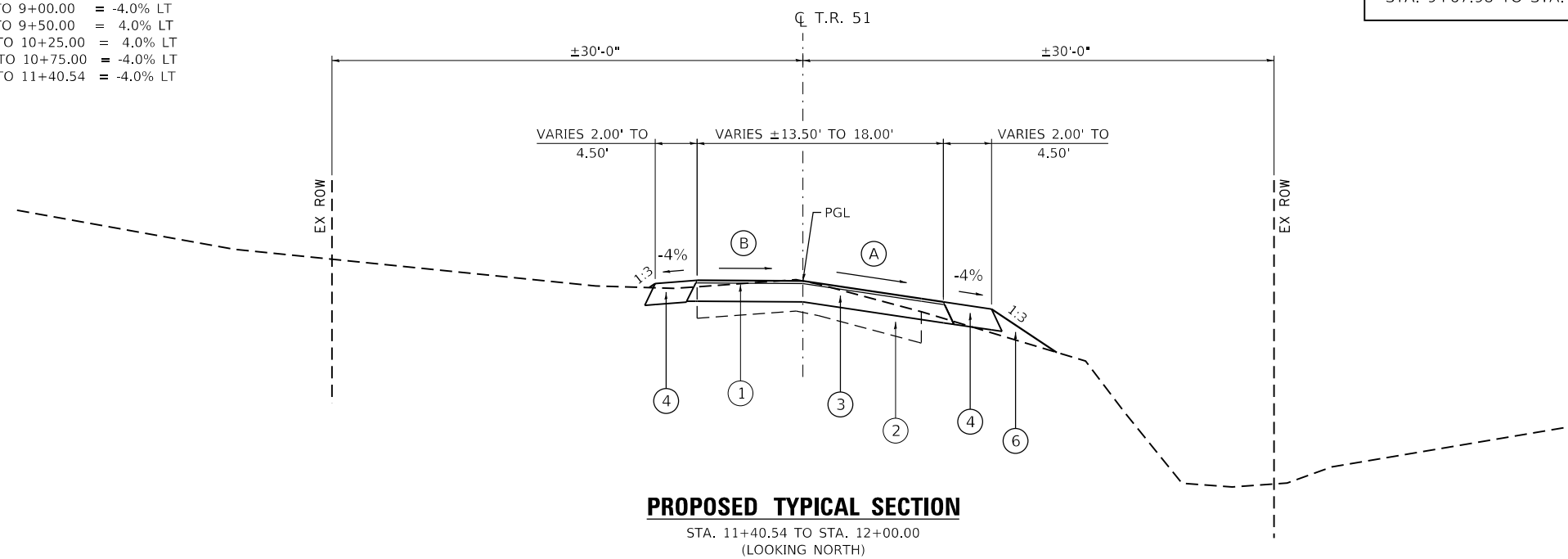


Ⓐ 7+75.00 = -1.9% TO 8+51.00 = -2.0% RT
 9+01.00 = -2.0% TO 9+43.00 = -4.0% RT
 9+43.00 = -4.0% TO 9+43.00 = -4.0% RT
 9+43.00 = -4.0% TO 11+50.00 = -4.0% RT
 11+50.00 = -4.0% TO 12+00.00 = -10.9% RT

Ⓑ 7+75.00 = -8.1% TO 8+60.00 = -2.0% LT
 8+60.00 = -2.0% TO 8+76.00 = 0.0% LT
 8+76.00 = 0.0% TO 9+01.00 = 2.0% LT
 9+01.00 = 2.0% TO 9+43.00 = 4.0% LT
 9+43.00 = 4.0% TO 11+50.00 = 4.0% LT
 11+50.00 = 4.0% TO 12+00.00 = -3.3% LT

Ⓒ 8+43.69 = -4.0% TO 9+00.00 = -4.0% LT
 9+00.00 = -4.0% TO 9+50.00 = 4.0% LT
 9+50.00 = 4.0% TO 10+25.00 = 4.0% LT
 10+25.00 = 4.0% TO 10+75.00 = -4.0% LT
 10+75.00 = -4.0% TO 11+40.54 = -4.0% LT

BRIDGE OMISSION:
 STA. 9+67.98 TO STA. 10+22.02 (SN 074-3313)



MODEL: Default FILE NAME: C:\Users\jrbat\OneDrive\Documents\Projects\9026-RT-51 Bridge Replacement\CADD\CAD_Sheets\9026-RT-51\9026-RT-51.dwg

design firm
 no. 184001036



USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 120,0000' / ft.	DRAWN - GSI	REVISED
PLOT DATE = 2/3/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

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

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	9
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT			6A5M(450)	

LOCATION	20200100	20300100	FOR INFORMATION ONLY		20400800
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) AND SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 7+75.00 TO STA. 9+68.00	86		65	43	22
STA. 9+68.00 TO STA. 10+22.00		65	* 24	0	24
STA. 10+22.00 TO STA. 12+00.00	67		50	276	-226
TOTAL	153	65	139	319	-180

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

*CHANNEL EXCAVATION USED IN EMBANKMENT= 50%

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

TR 51 (LICKSKILLET RD.)	UNIT
LT 10+40.00	8
LT 10+42.00	8
LT 10+60.00	12
LT 10+61.00	12
LT 10+62.00	8
LT 10+63.00	14
LT 11+12.00	15
LT 11+14.00	6
LT 11+31.00	12
LT 11+31.00	6
LT 11+34.00	6
LT 11+34.00	8
LT 11+50.00	12
LT 11+52.00	12
LT 11+60.00	6
LT 11+71.00	18
LT 11+73.00	10
LT 11+81.00	12
LT 11+86.00	6
LT 12+09.00	6
TOTAL	197

28000250 TEMPORARY EROSION CONTROL SEEDING

TR 51 (LICKSKILLET RD.)	POUND
LT 7+75.00 TO LT 9+68.00	25
LT 10+22.00 TO LT 12+00.00	25
RT 7+75.00 TO RT 9+68.00	25
RT 10+22.00 TO RT 12+00.00	25
TOTAL	100

28000400 PERIMETER EROSION BARRIER

TR 51 (LICKSKILLET RD.)	FOOT
LT 7+75.00 TO LT 9+75.00	211
LT 10+20.00 TO LT 12+00.00	194
RT 7+75.00 TO RT 9+75.00	198
RT 10+20.00 TO RT 12+00.00	174
TOTAL	777

35101400 AGGREGATE BASE COURSE, TYPE B

TR 51 (LICKSKILLET RD.)	TON
CL 7+75.00 TO CL 8+43.69	58
CL 8+43.69 TO CL 9+68.00	118
CL 10+22.00 TO CL 11+40.54	113
CL 11+40.54 TO CL 12+00.00	50
TOTAL	339

44000100 PAVEMENT REMOVAL

TR 51 (LICKSKILLET RD.)	SQ YD
CL 7+75.00 TO CL 8+43.69	107
CL 8+43.69 TO CL 9+68.00	194
CL 10+22.00 TO CL 11+40.54	184
CL 11+40.54 TO CL 12+00.00	93
TOTAL	578

48101200 AGGREGATE SHOULDERS, TYPE B

TR 51 (LICKSKILLET RD.)	TON
LT / RT 7+75.00 TO LT / RT 8+43.69	25
LT / RT 8+43.69 TO LT / RT 9+68.00	61
LT / RT 10+22.00 TO LT / RT 11+40.54	59
LT / RT 11+40.54 TO LT / RT 12+00.00	22
TOTAL	167

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

TR 51 (LICKSKILLET RD.)	EACH
RT 9+30.50 TO RT 9+68.00	1
LT 10+22.00 TO LT 10+59.50	1
TOTAL	2

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

TR 51 (LICKSKILLET RD.)	EACH
RT 8+80.50 TO RT 9+30.50	1
LT 10+59.50 TO LT 11+09.50	1
TOTAL	2

67100100 MOBILIZATION

TR 51 (LICKSKILLET RD.)	L SUM
TOTAL	1

72501000 TERMINAL MARKER - DIRECT APPLIED

TR 51 (LICKSKILLET RD.)	EACH
RT 8+80.50	1
LT 11+09.50	1
TOTAL	2

X2501000 SEEDING, CLASS 2 (SPECIAL)

TR 51 (LICKSKILLET RD.)	ACRE
LT 7+75.00 TO LT 9+68.00	0.06
LT 10+22.00 TO LT 12+00.00	0.06
RT 7+75.00 TO RT 9+68.00	0.06
RT 10+22.00 TO RT 12+00.00	0.06
TOTAL	0.25

X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

TR 51 (LICKSKILLET RD.)	L SUM
TOTAL	1

Z0022800 FENCE REMOVAL

TR 51 (LICKSKILLET RD.)	FOOT
25' LT 9+48.00 TO 16' LT 9+75.00	36
16' LT 10+22.50 TO 25' LT 12+00.00	246
TOTAL	282

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design firm
no. 184001036



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	CHECKED - CWC	REVISED
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PLOT DATE = 2/3/2021	CHECKED - BJJ/CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91600	
			6A5M(450)	

PROP. CURVE TR511
 PI STA. = 10+72.31
 $\Delta = 38^\circ 17' 33''$ (RT)
 $D = 13^\circ 01' 18''$
 $R = 440.00'$
 $T = 152.76'$
 $L = 294.07'$
 $E = 25.76'$
 $e = 4.0\%$
 $T.R. = 25'$
 $S.E. RUN = 92'$
 $P.C. STA. = 9+19.55$
 $P.T. STA. = 12+13.62$

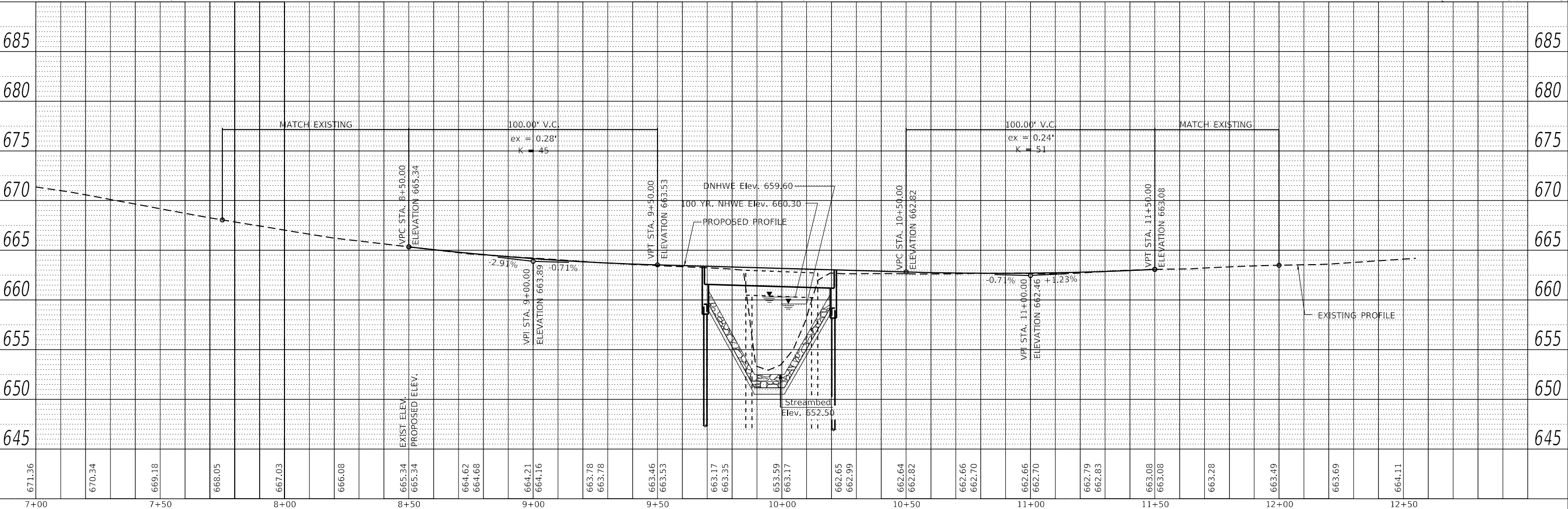
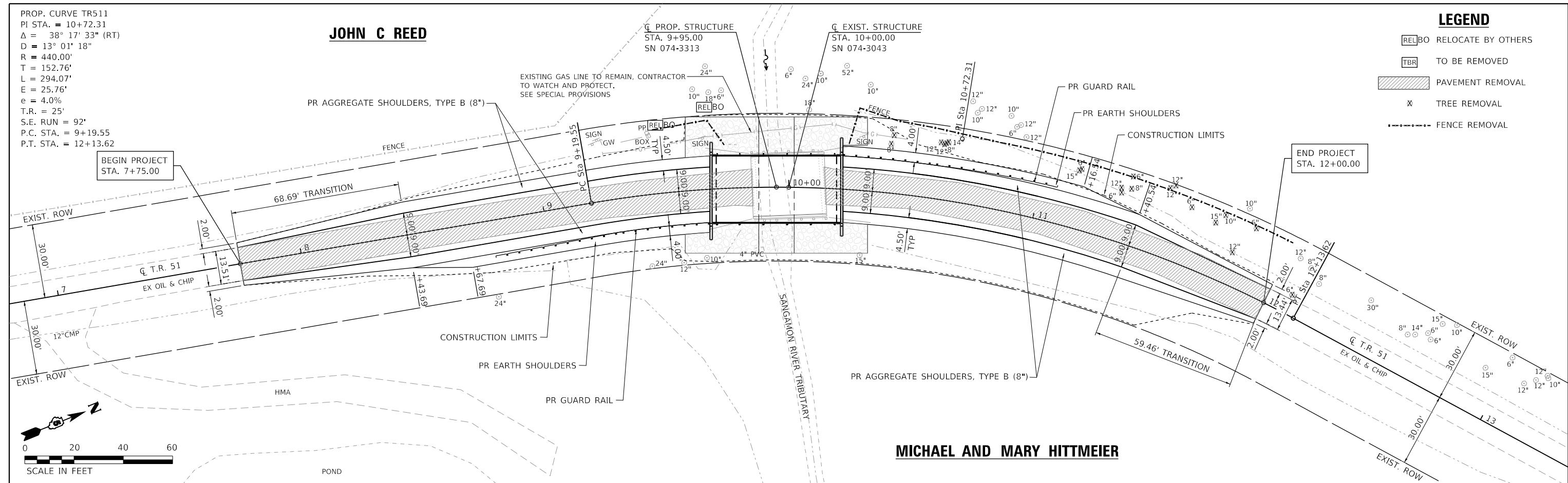
JOHN C REED

LEGEND

- REL/BO RELOCATE BY OTHERS
- TBR TO BE REMOVED
- PAVEMENT REMOVAL
- X TREE REMOVAL
- FENCE REMOVAL

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	GRADES CHECKED
	STRUCTURE NOTATION CHECKED
	FILE NAME
	NO.

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



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 Design firm
 no. 184001036

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		CHECKED -	CWC	REVISED	
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PLOT DATE =	2/3/2021	CHECKED -	RKA	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

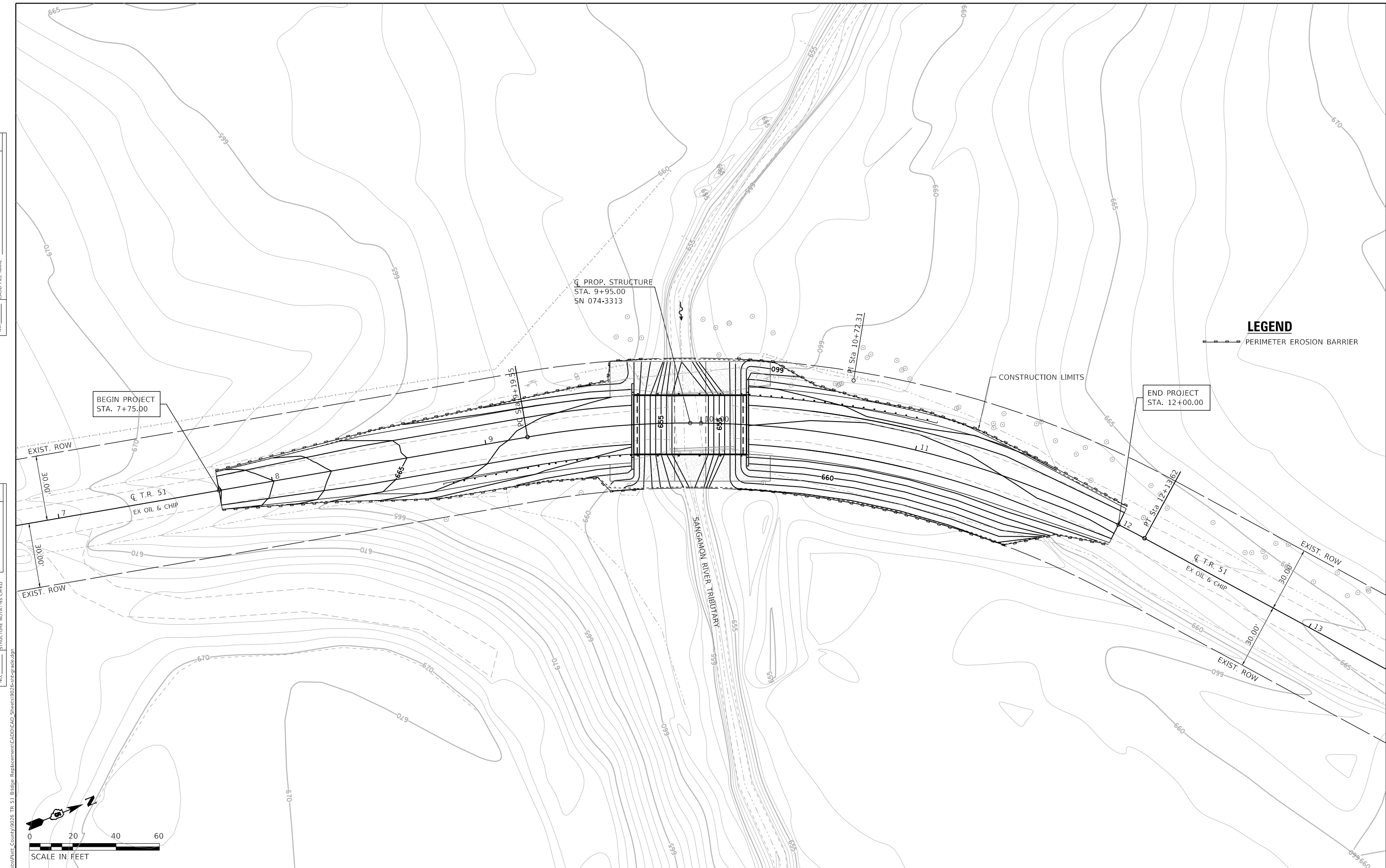
**PLAN AND PROFILE
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 7+75.00 TO STA. 12+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	11
CONTRACT NO. 91600			ILLINOIS FED. AID PROJECT 645M(450)	

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

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



LEGEND

--- PERIMETER EROSION BARRIER

BEGIN PROJECT
STA. 7+75.00

Q PROP. STRUCTURE
STA. 9+95.00
SN 074-3313

END PROJECT
STA. 12+00.00

CONSTRUCTION LIMITS

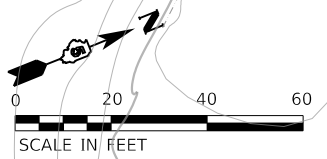
EXIST. ROW

EXIST. ROW

Q T.R. 51
EX OIL & CHIP

Q T.R. 51
EX OIL & CHIP

SANGAMON RIVER TRIBUTARY



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	CHECKED - CWC	REVISED
PLOT SCALE = 480.0000' / R.	DRAWN - GSI	REVISED
PLOT DATE = 2/3/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

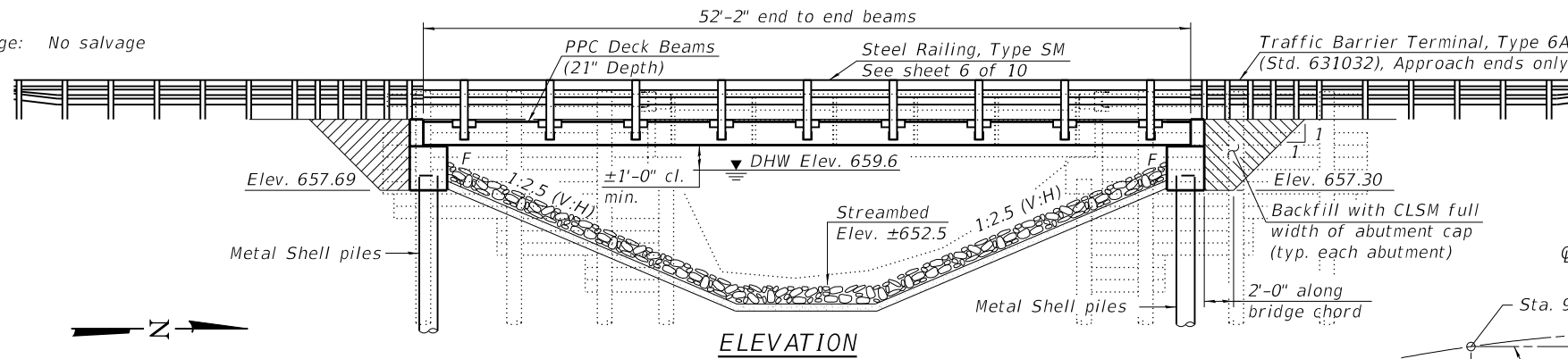
**SUGGESTED GRADING PLAN
T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 7+75.00 TO STA. 12+00.00

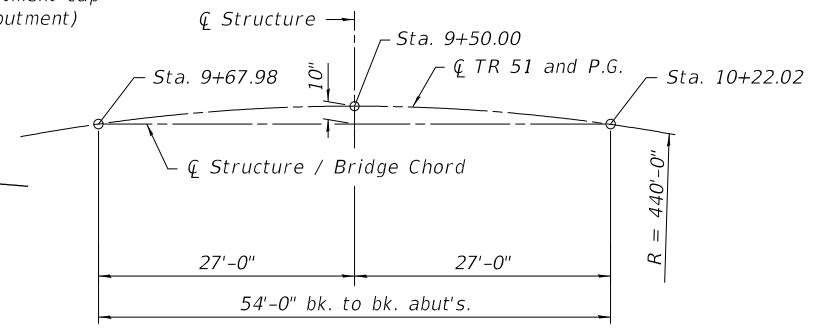
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	12
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT			6A5M(450)	

Benchmark: BM "A" Sta. 9+45.10, 24.89' Lt., RR spike in power pole approx. 25' southwest of bridge. Elev. 662.82
 Existing Structure: SN 074-3043 was constructed in 1960 as Section 112B-TR, Station 14+60. Single span precast channel beam bridge supported by reinforced concrete bent caps founded on timber piles. 30'-11" back to back of abutments, 26'-0" out to out of deck. Structure to be removed and replaced. Road closed during construction.

Salvage: No salvage



PROPOSED PROFILE GRADE
(Along \bar{C} TR 51)



OFFSET SKETCH

CURVE DATA (TR 51)

P.I. Sta. = 10+72.32
 $\Delta = 38^\circ 17' 33.1''$ (Rt.)
 $D = 13^\circ 01' 18.4''$
 $R = 440.00'$
 $T = 152.76'$
 $L = 294.07'$
 $E = 25.76'$
 S.E. Run = 4.0%
 P.C. Sta. = 9+19.55
 P.T. Sta. = 12+13.62

- Notes:
1. See sheet 2 of 10 for sections A-A and B-B.
 2. See roadway plans for Utilities, Grading Plan and Quantities not shown on sheet 2.

SANGAMON RIVER TRIBUTARY
 BUILT 20 BY
 PIATT COUNTY
 SEC. 20-06132-00-BR
 STA. 9+95
 STR. NO. 074-3313 LOADING HL93

NAME PLATE
See Std. 515001

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. 21" x 36" PPC Deck Beam
4. 21" x 36" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type SM w/ HMA Wearing Surface
7. South Abutment
8. North Abutment
9. Metal Shell Pile Details
10. Boring Logs

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications
 8th Edition with 2018 Interims

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

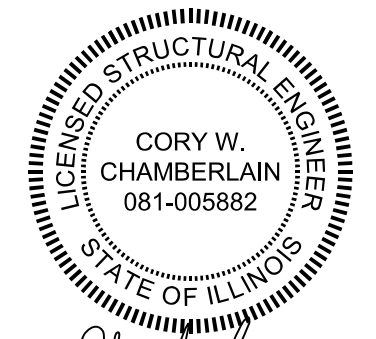
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f'_{pu} = 270,000$ psi ($1/2$ " low lax strands)
 $f'_{pbt} = 201,960$ psi ($1/2$ " low lax strands)

SEISMIC DATA

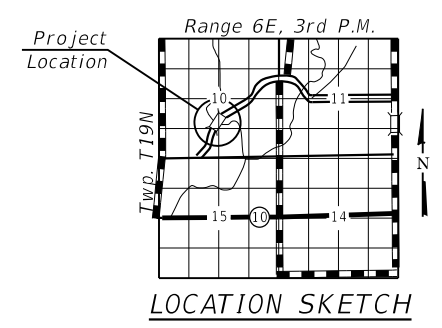
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.098g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.179g
 Soil Site Class = C



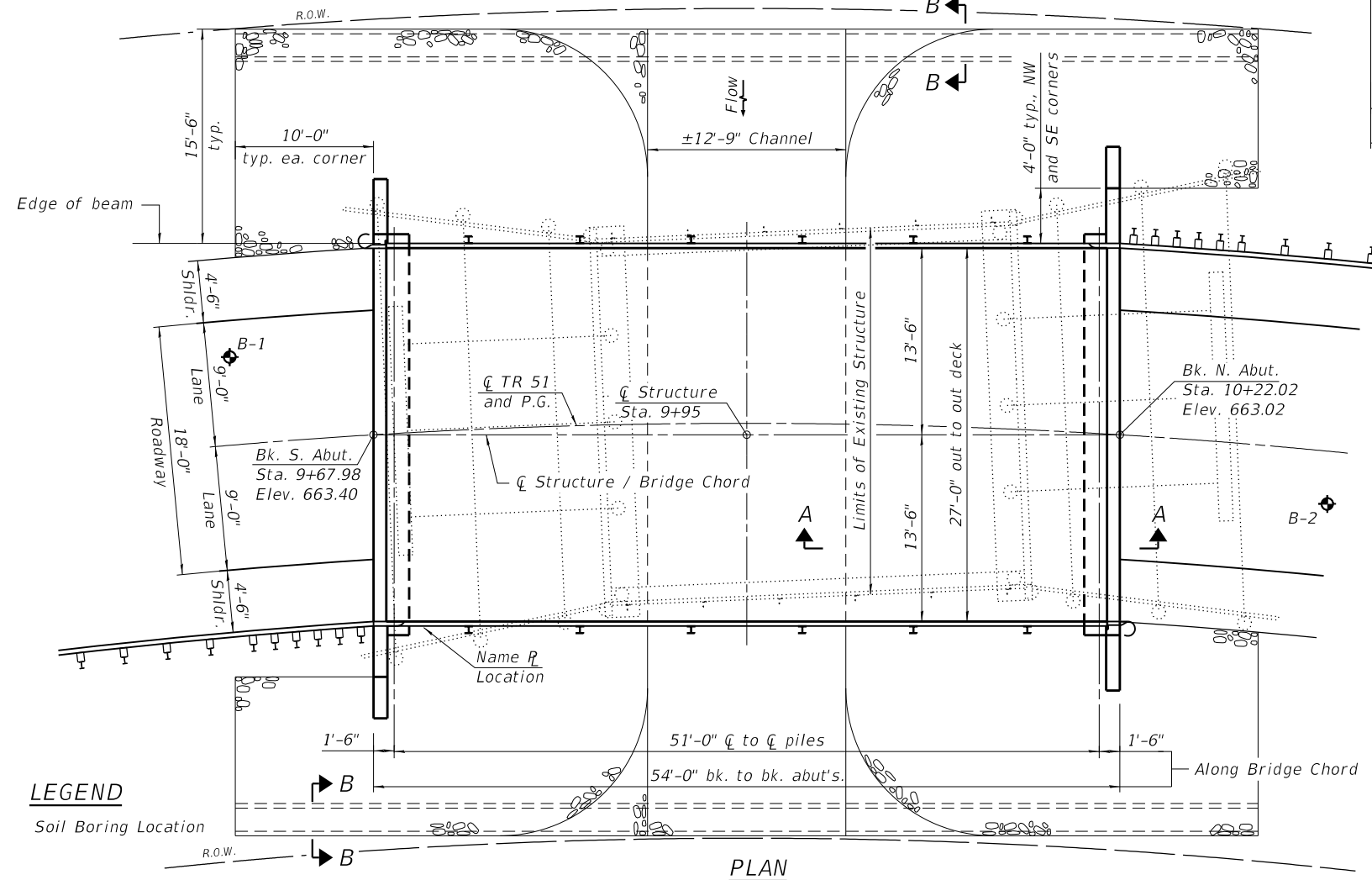
Cory W. Chamberlain 2-3-21
 Expires: 11/30/2022

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 current AASHTO LRFD Bridge Design Specifications.

GENERAL PLAN AND ELEVATION
TR 51 (NORTH RD) OVER SANGAMON RIVER TRIB.
SECTION 20-06132-00-BR
PIATT COUNTY
STATION 9+95
STRUCTURE NO. 074-3313



LOCATION SKETCH



LEGEND

Soil Boring Location

WATERWAY INFORMATION TABLE

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Drainage Area = 3.96 sq. mi. Exist. Low Grade Elev. 662.60 at Sta. 10+50.00 Prop. Low Grade Elev. 662.70 at Sta. 11+00.00									
Design	15	665	99	213	659.6	0.4	0.0	660.0	659.6
	20	730	103	216	659.7	0.5	0.1	660.2	659.8
	30	820	109	222	659.9	0.6	0.1	660.5	660.0
	50	920	115	228	660.1	0.8	0.2	660.9	660.3
Base	100	1080	122	234	660.3	1.1	0.3	661.4	660.6
Check	200	1240	129	244	660.6	1.3	0.4	661.9	661.0
Max. Calc.	500	1460	134	271	660.9	2.1	0.5	663.0	661.4

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elev. (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	-	-	8
Q200	-	-	
Design	657.69	657.30	
Check	657.69	657.30	

10yr Velocity through Existing: 5.5 ft/s
 10yr Velocity through Proposed: 2.9 ft/s

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design firm no. 184001036	USER NAME = dheberling	DESIGNED - GEM	REVISED -
		CHECKED - BRD/SBC	REVISED -
	PLOT DATE = 2/3/2021	DRAWN - DLH	REVISED -
	PLOT DATE = 4:01:12 PM	CHECKED - GEM/SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 074-3313
 SHEET 1 OF 10 SHEETS

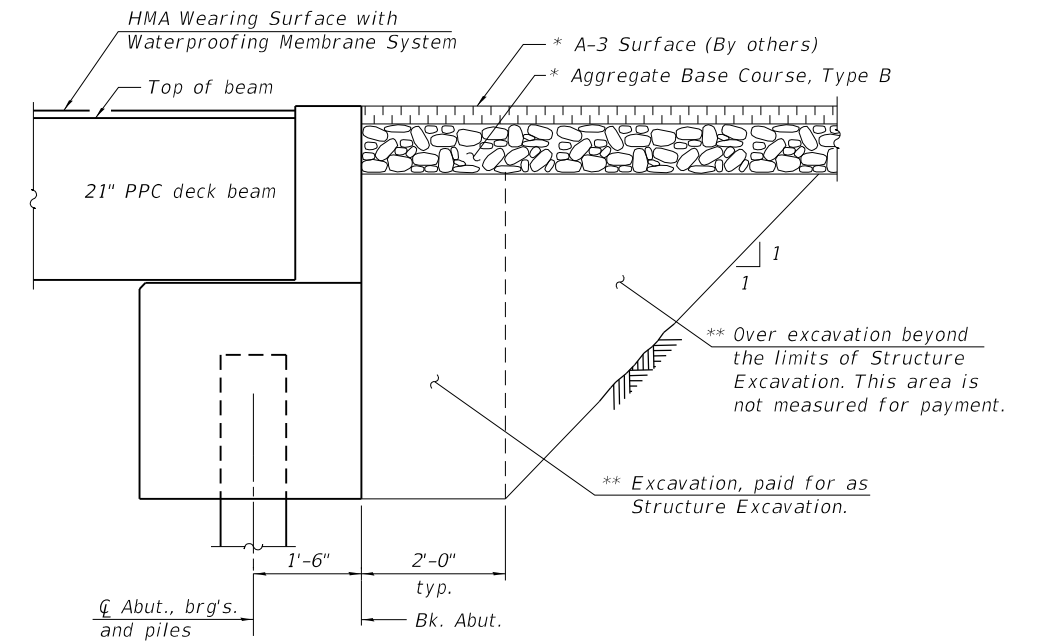
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	13
CONTRACT NO. 91600			ILLINOIS FED. AID PROJECT 6ASM(450)	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

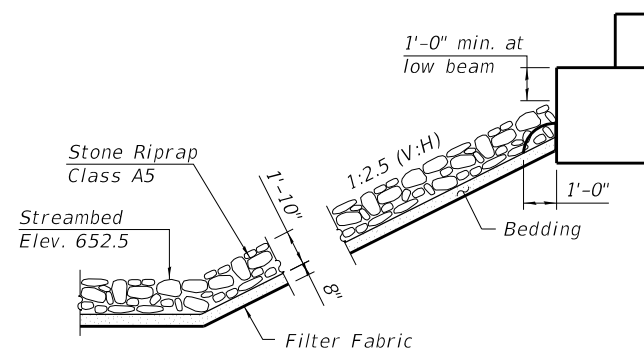
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Channel Excavation	Cu. Yd.		65	65
Stone Riprap, Class A5	Sq. Yd.		408	408
Filter Fabric	Sq. Yd.		408	408
Hot-mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	25		25
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		101	101
Concrete Structures	Cu. Yd.		31.8	31.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1,409		1,409
Reinforcement Bars, Epoxy Coated	Pound		4,890	4,890
Steel Railing, Type SM	Foot	105		105
Furnishing Metal Shell Piles 14" x 0.250"	Foot		216	216
Driving Piles	Foot		216	216
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	157		157
Portland Cement Mortar Fairing Course	Foot	251		251
Controlled Low-Strength Material	Cu. Yd.		49.2	49.2

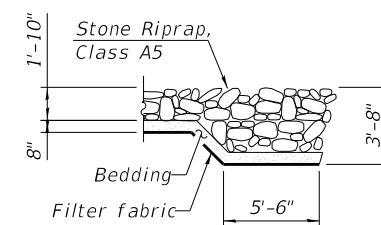


SECTION AT ABUTMENT
(Dimensions are along bridge chord)

- * See roadway plans.
- ** Backfill with Controlled Low-Strength Material (CLSM) (Mix 2) behind abutments. Backfill behind wingwalls in accordance with Article 502.10 of the Standard Specifications. Cost included with Structure Excavation.



SECTION A-A



SECTION B-B

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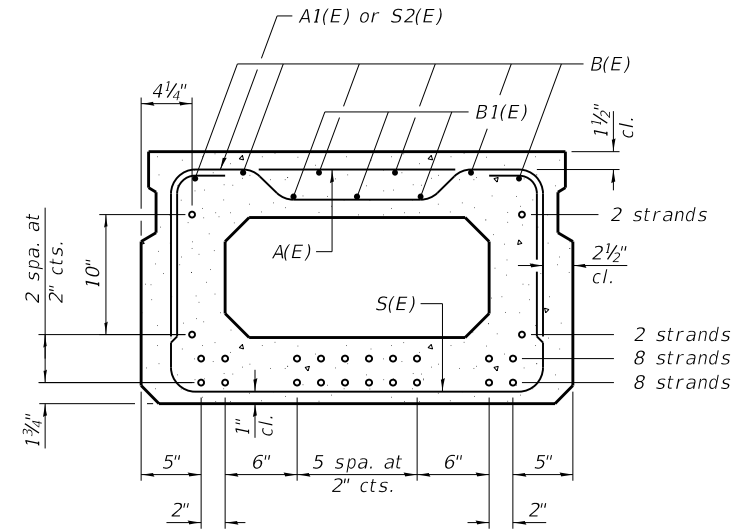
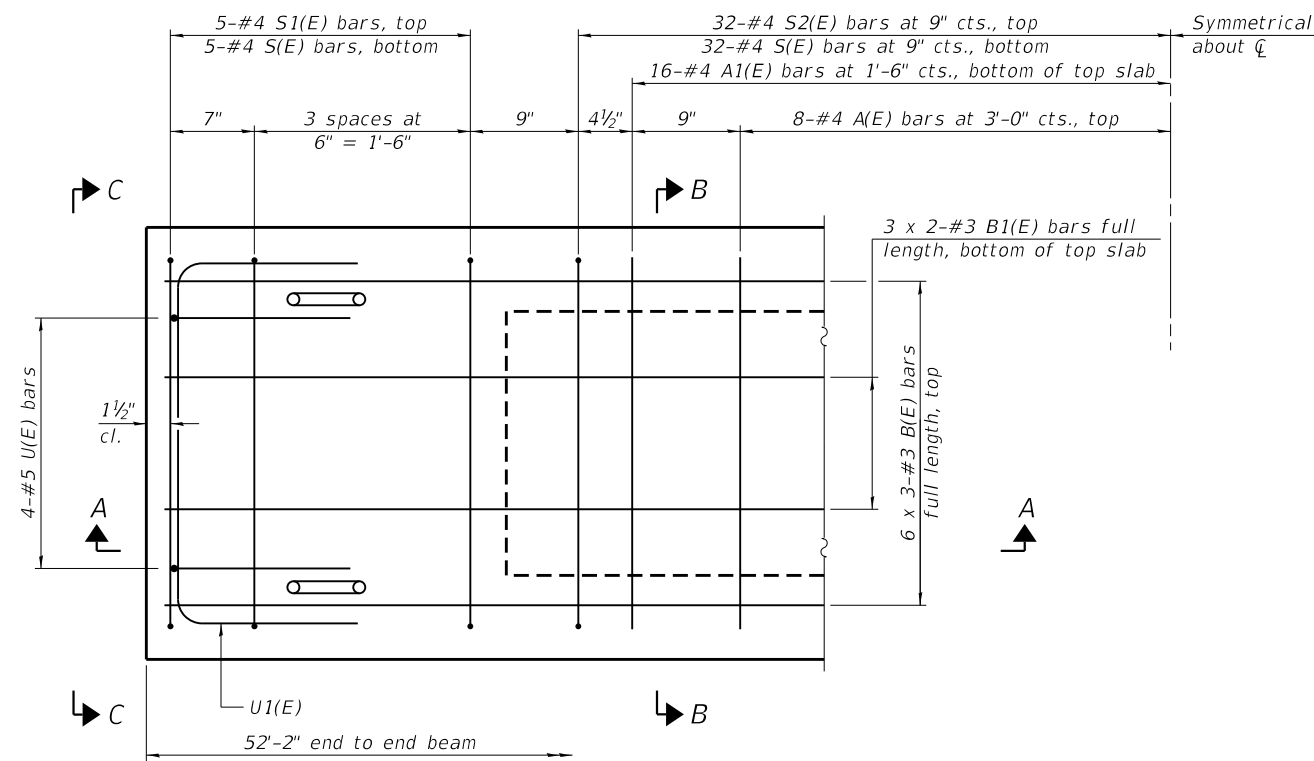
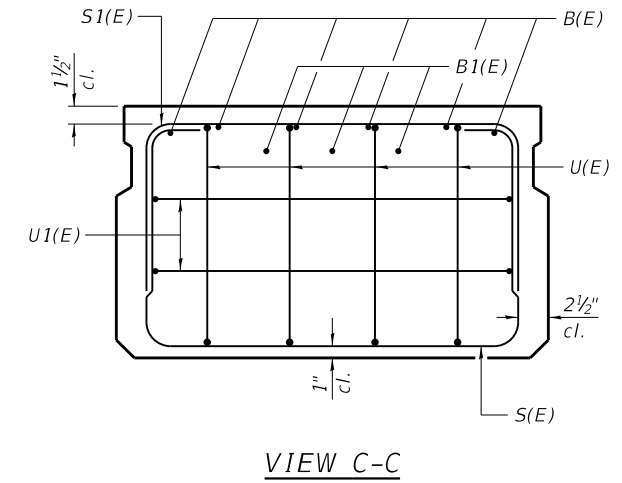
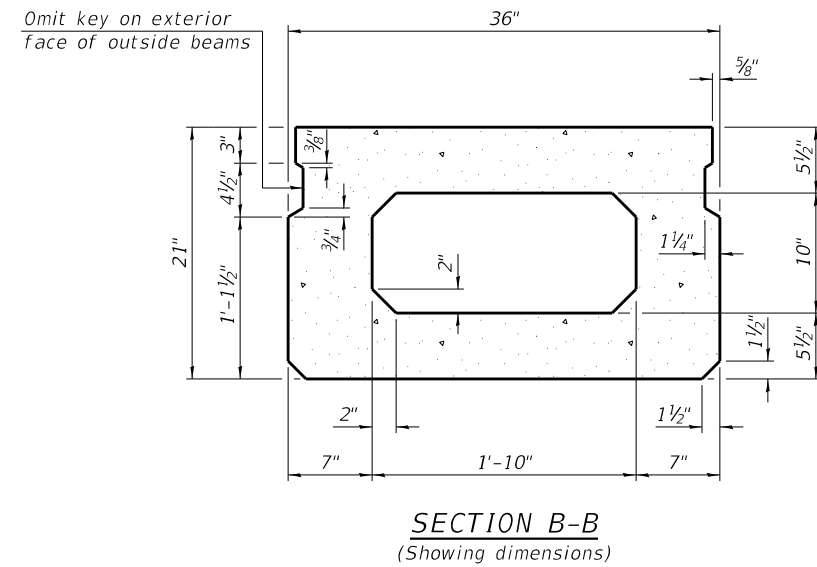
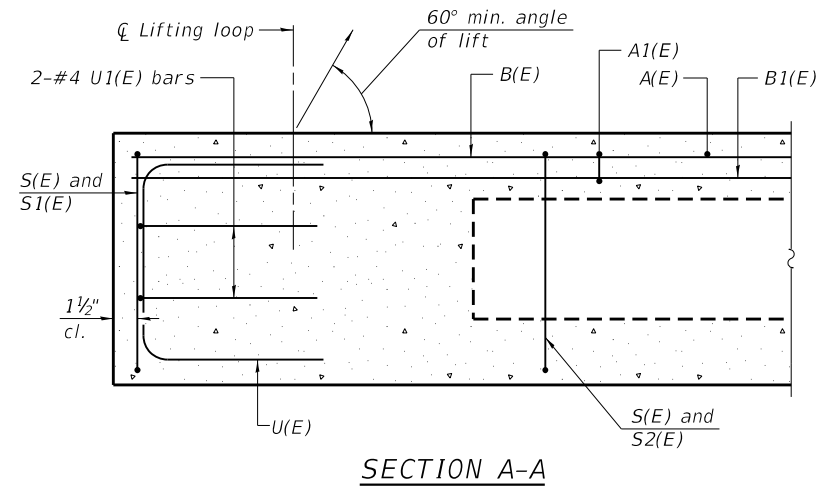
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 074-3313**

SHEET 2 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	14
CONTRACT NO. 91600				
ILLINOIS		FED. AID PROJECT	6ASM(450)	



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	2'-7"	—
A1(E)	32	#4	2'-10"	~
B(E)	18	#3	18'-4"	—
B1(E)	6	#3	26'-9"	—
S(E)	74	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	64	#4	5'-2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

PLAN VIEW

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.

SECTION B-B
(Showing reinforcement and permissible strand locations)
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

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

- Notes:
- See sheet 4 for additional details and Bill of Material.
 - Bars indicated thus 1 x 2-#4 ect. indicates 1 line of bars with 2 lengths per line.

PD-2136-0 1-1-2020

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	CHECKED - GEM/SBC	REVISED -

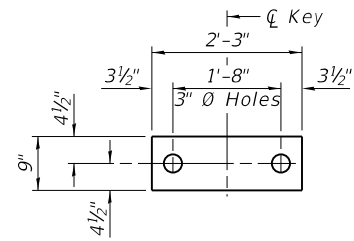
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM
STRUCTURE NO. 074-3313

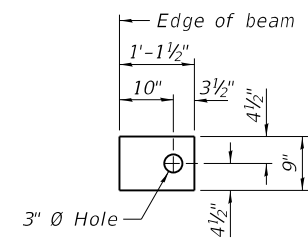
SHEET 3 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	15
CONTRACT NO. 91600				

ILLINOIS FED. AID PROJECT 6ASM(450)



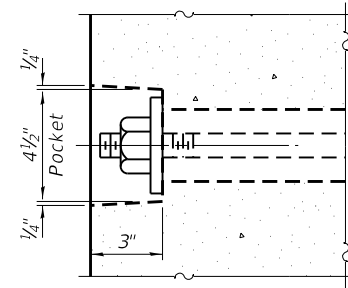
FABRIC BEARING PAD
(Interior)



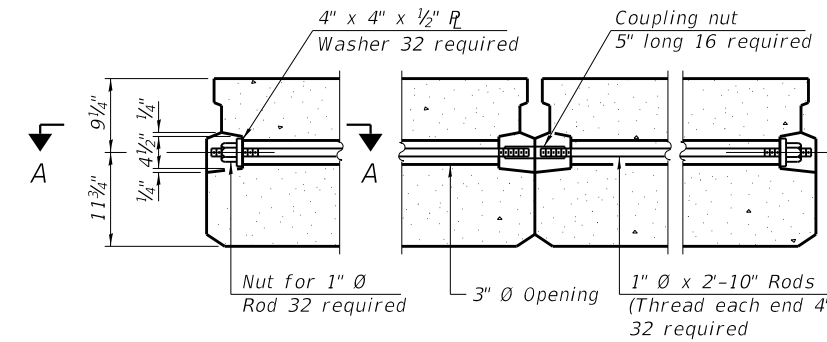
FABRIC BEARING PAD
(Exterior)

FIXED

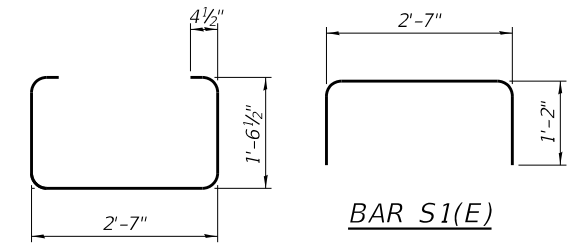
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A

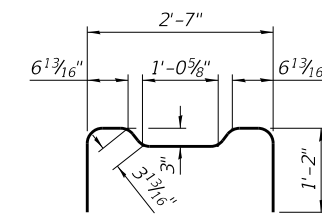


TYPICAL TRANSVERSE TIE ASSEMBLY



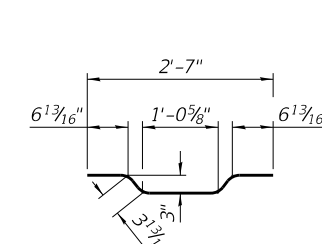
BAR S1(E)

BAR S(E)

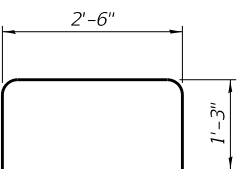


BAR U(E)

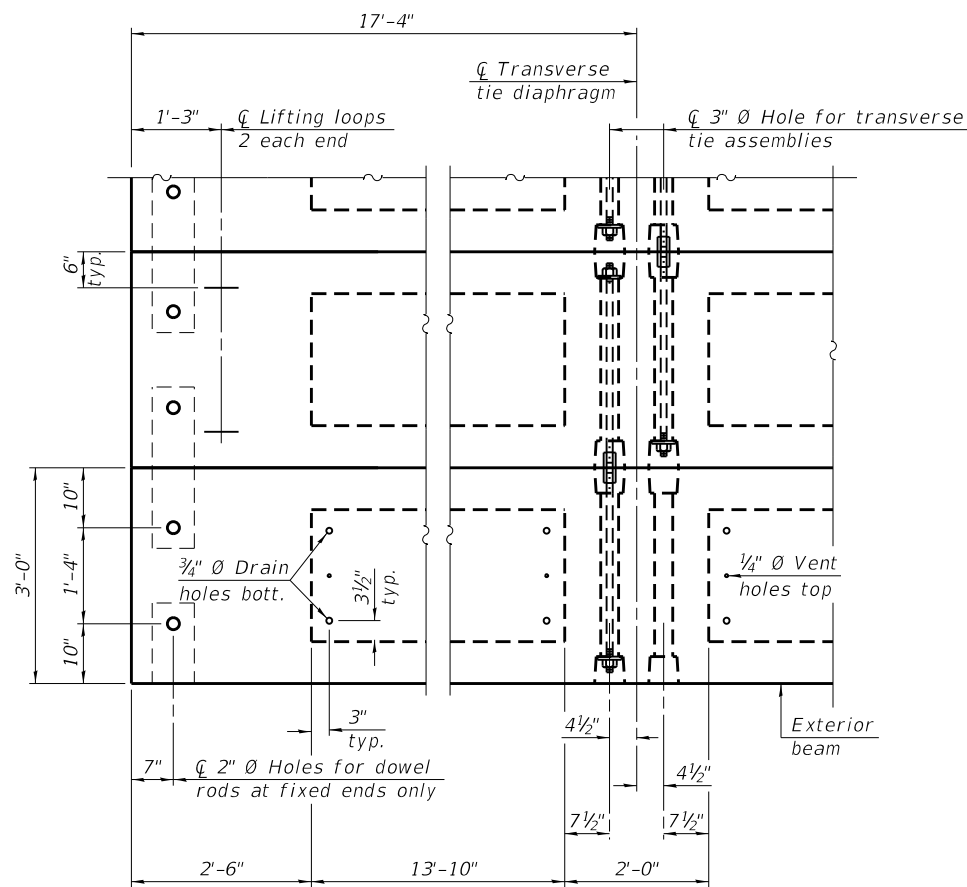
BAR S2(E)



BAR A1(E)



BAR U1(E)

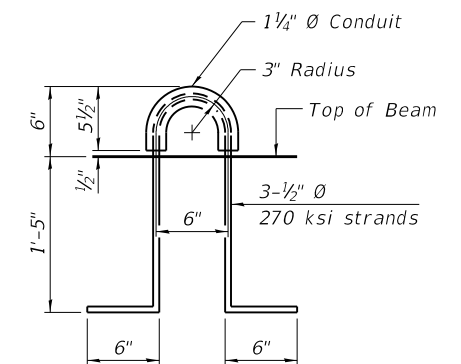


PLAN VIEW

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

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" diameter 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" diameter 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.



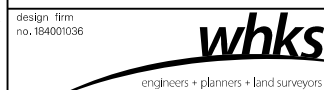
LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,409
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FILE NAME: L:\Jobs\PRC_County\026 TR 51 Bridge Replacement\CADD\CAD_Sheets\0743313-01.600.dgn

PDD-2136-0 1-1-2020



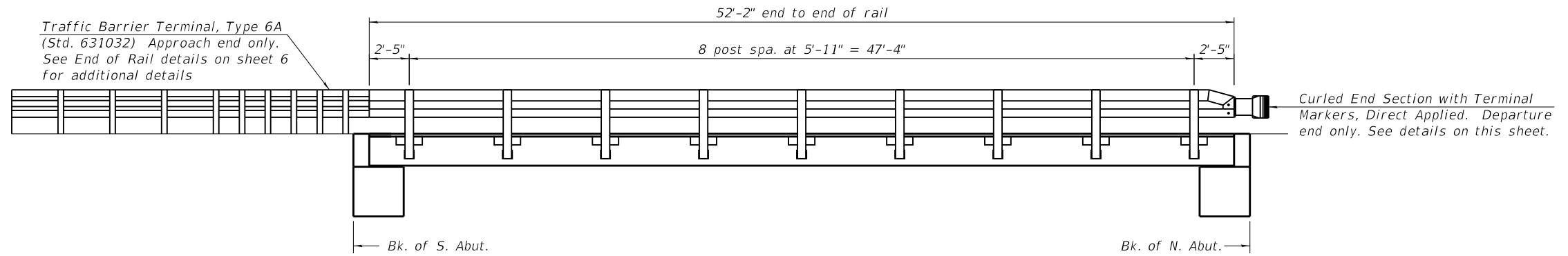
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PLOT DATE = 2/3/2021	CHECKED - BRD/SBC	REVISED -
PLOT DATE = 4:01:13 PM	DRAWN - DLH	REVISED -
	CHECKED - GEM/SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

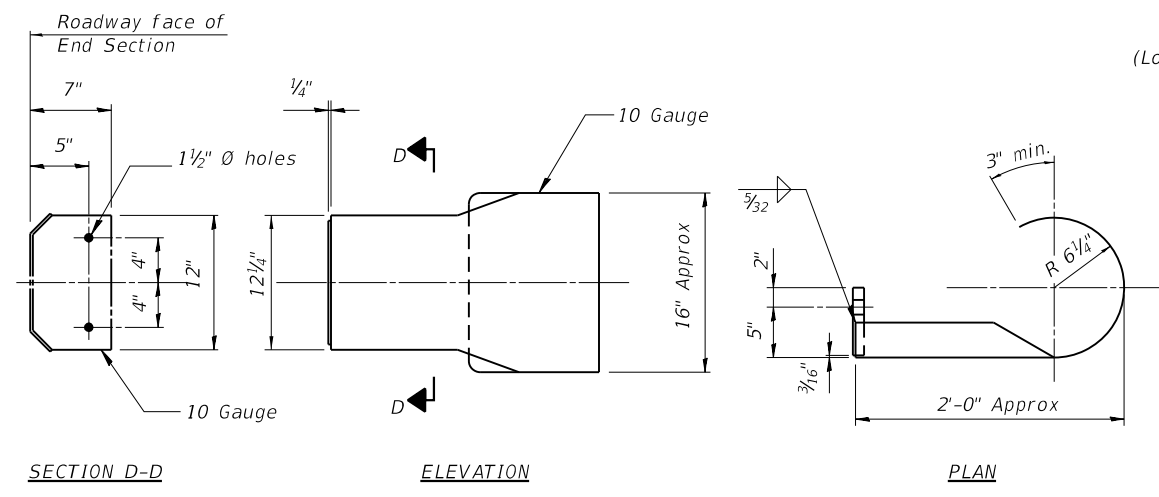
21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 074-3313

SHEET 4 OF 10 SHEETS

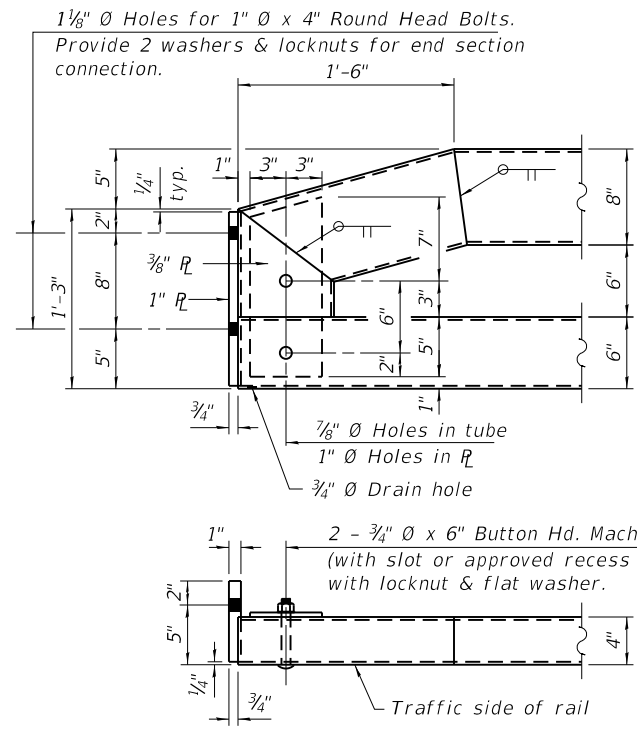
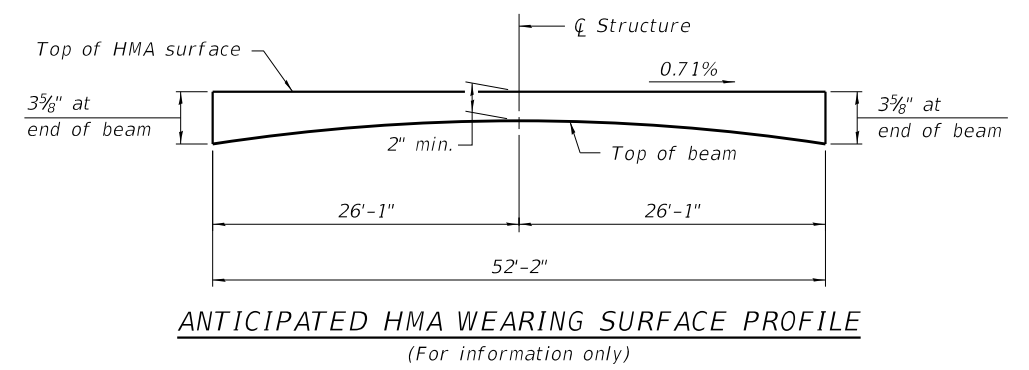
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	16
CONTRACT NO. 91600				
ILLINOIS		FED. AID PROJECT	6ASM(450)	



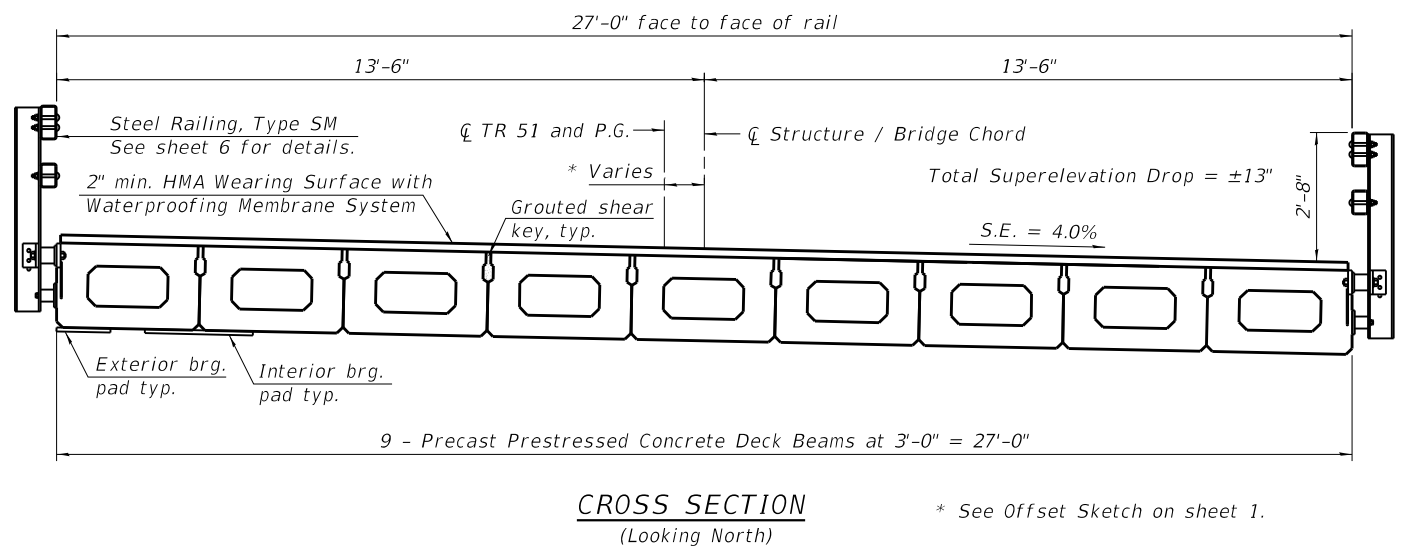
RAIL POST SPACING
(Looking West at East fascia. West fascia similar. See sheet 1.)



DETAILS OF CURLED END SECTION
(Cost included with Steel Railing, Type SM)



END OF RAIL DETAILS
(At ends with Curled End Sections only.)



BILL OF MATERIAL

Item	Unit	Quantity
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Tons	25
Waterproofing Membrane System	Sq. Yd.	157
Portland Cement Mortar Fairing Course	Foot	251

FILE NAME: L:\Jobs\PIB\County\026 TR 51 Bridge Replacement\CADD\CAD_Sheets\0743313-01.600.dgn



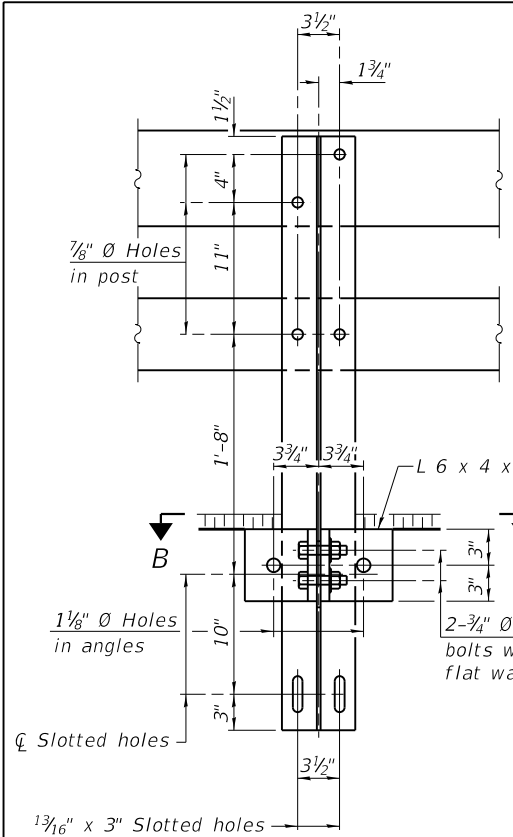
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PLOT DATE = 2/3/2021	CHECKED - BRD/SBC	REVISED -
PLOT DATE = 4:01:13 PM	DRAWN - DLH	REVISED -
	CHECKED - GEM/SBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 074-3313

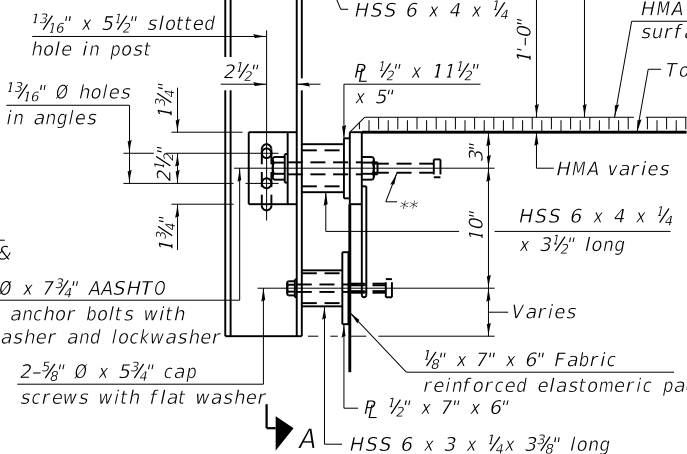
SHEET 5 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91600				
ILLINOIS		FED. AID PROJECT	6ASM(450)	

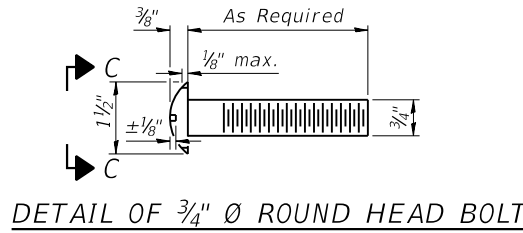


SECTION A-A

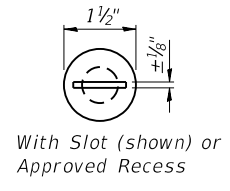
4- $\frac{3}{4}$ " \emptyset x 6" Round Head Bolts with locknut & flat washer.
 $\frac{7}{8}$ " \emptyset holes in hollow structural section may be drilled in the field.



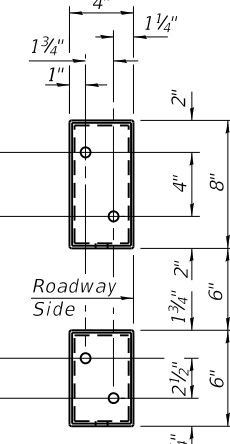
SECTION AT RAIL POST



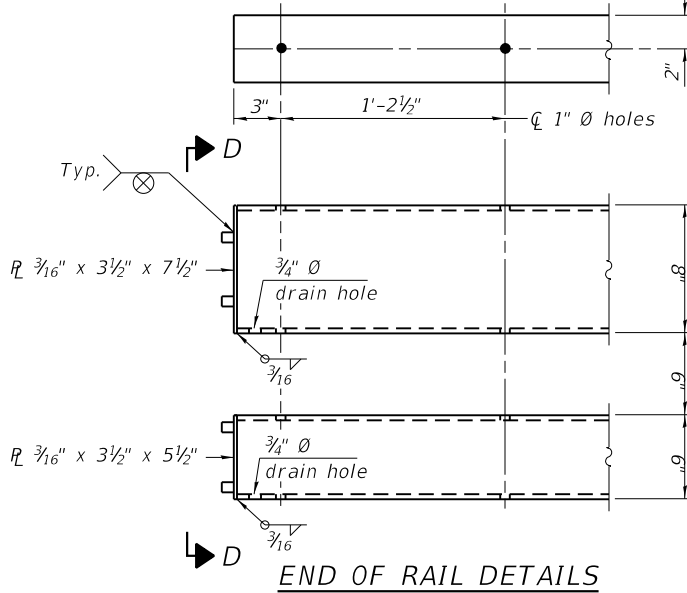
DETAIL OF $\frac{3}{4}$ " \emptyset ROUND HEAD BOLT



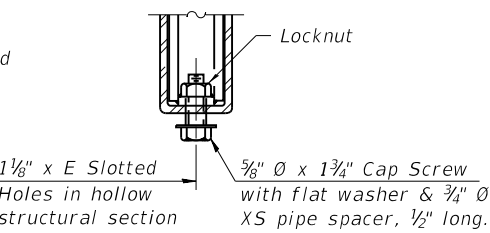
VIEW C-C



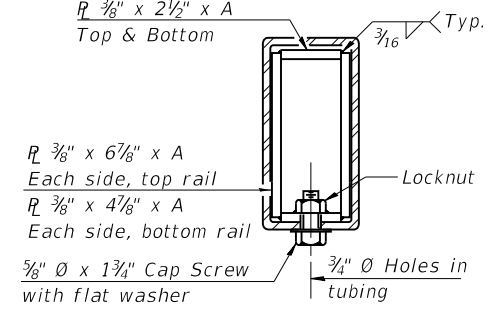
VIEW D-D



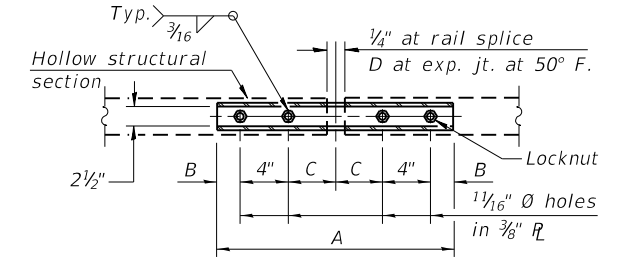
END OF RAIL DETAILS



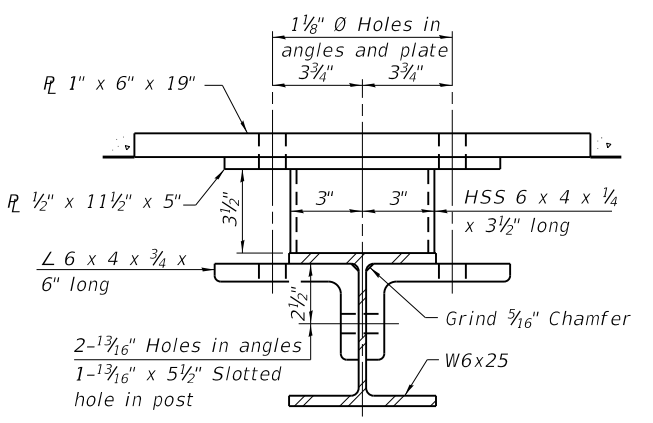
RAIL SPLICE CONNECTION AT EXPANSION JT.



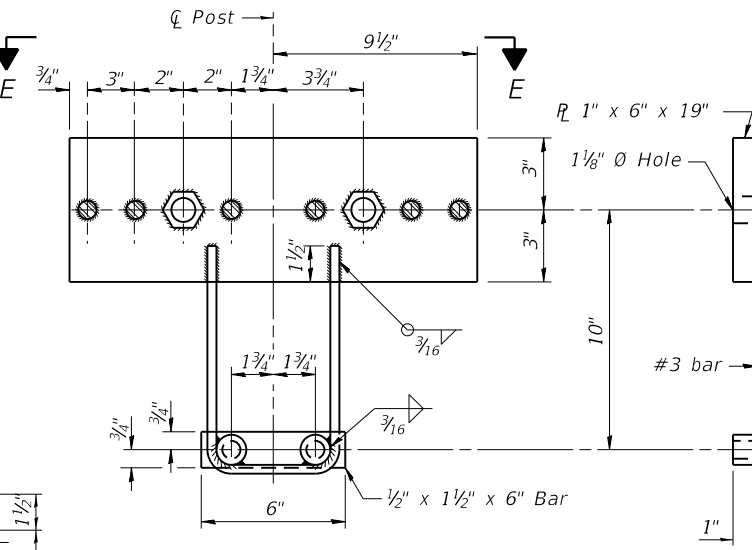
SECTION AT RAIL SPLICE



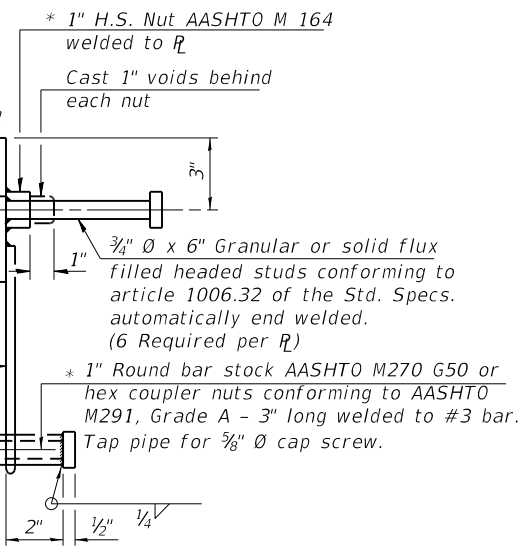
PLAN-BOTT. SPLICE R TYPICAL



SECTION B-B



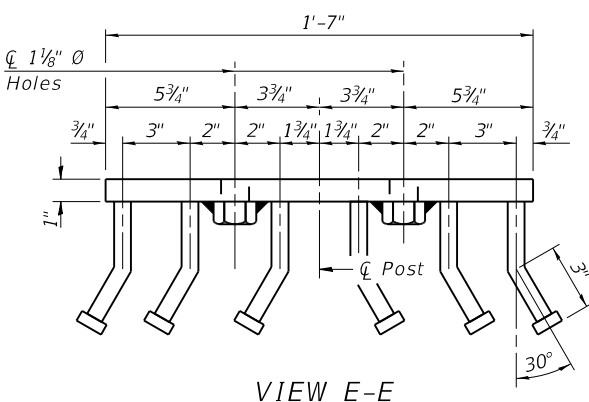
ANCHOR DEVICE



SPLICE DIMENSIONS

T	D	A	B	C	E
$\leq 4"$	$2\frac{1}{2}"$	1'-8"	2"	4"	$2\frac{1}{2}"$
$> 4" \leq 6\frac{1}{2}"$	$3\frac{3}{4}"$	2'-0"	$2\frac{1}{2}"$	$5\frac{1}{2}"$	$3\frac{1}{2}"$
$> 6\frac{1}{2}" \leq 9"$	5"	2'-4"	$3\frac{1}{2}"$	$6\frac{1}{2}"$	9"
$> 9" \leq 13"$	7"	2'-10"	$4\frac{1}{2}"$	$8\frac{1}{2}"$	11"
Rail Splice	$\frac{1}{4}"$	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

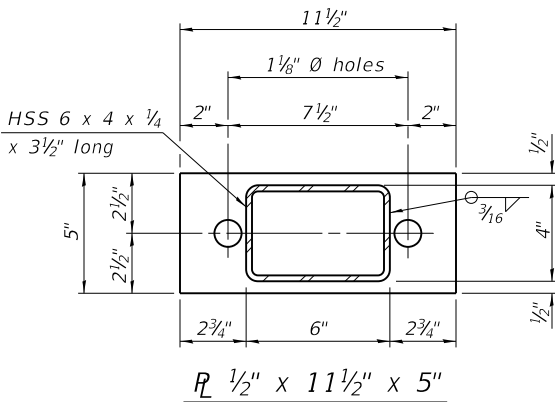


VIEW E-E

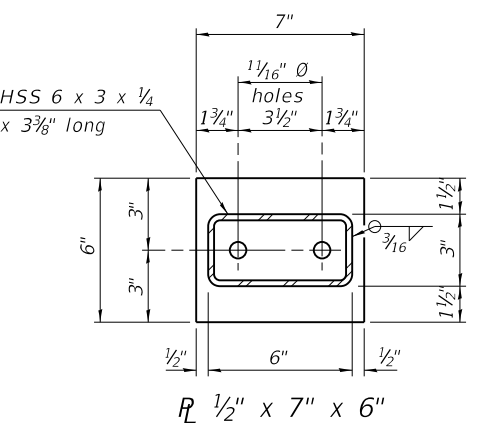
Notes:
 For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down $\frac{1}{2}"$ to accommodate the top reinforcement bar placement.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	105



$R \frac{1}{2}" \times 11\frac{1}{2}" \times 5"$



$R \frac{1}{2}" \times 7" \times 6"$

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

R-34HMAWS 2-17-2017 (6'-3" Maximum Post Spacing) ($1\frac{1}{4}"$ minimum to $3\frac{1}{8}"$ maximum HMA thickness)

FILE NAME: L:\Jobs\Proj_County\0226 TR 51 Bridge Replacement\CADD\CAD_Sheets\0743313-01.6000.dgn

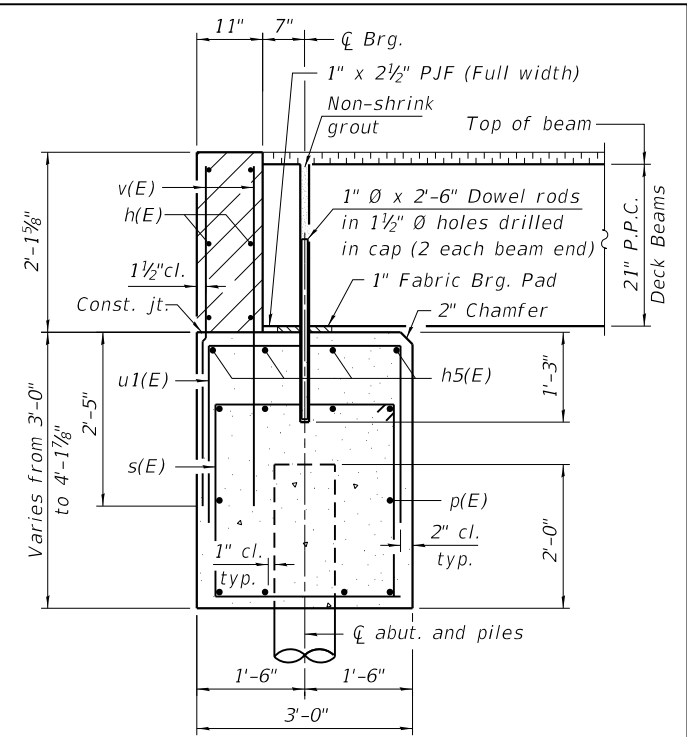
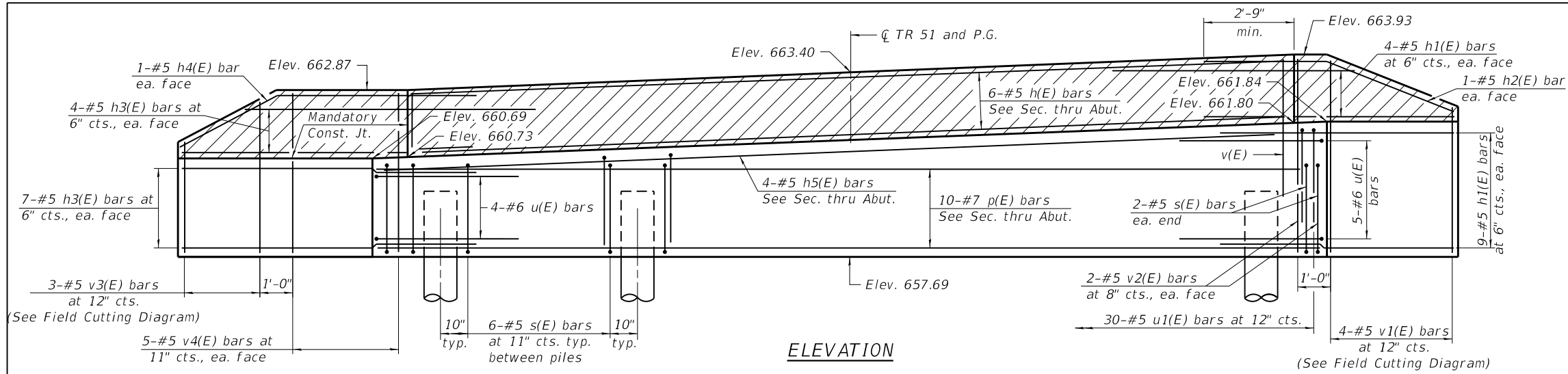


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PLOT DATE = 2/3/2021	CHECKED - BRD/SBC	REVISED -
PLOT DATE = 4:01:14 PM	DRAWN - DLH	REVISED -
	CHECKED - GEM/SBC	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
 STRUCTURE NO. 074-3313
 SHEET 6 OF 10 SHEETS

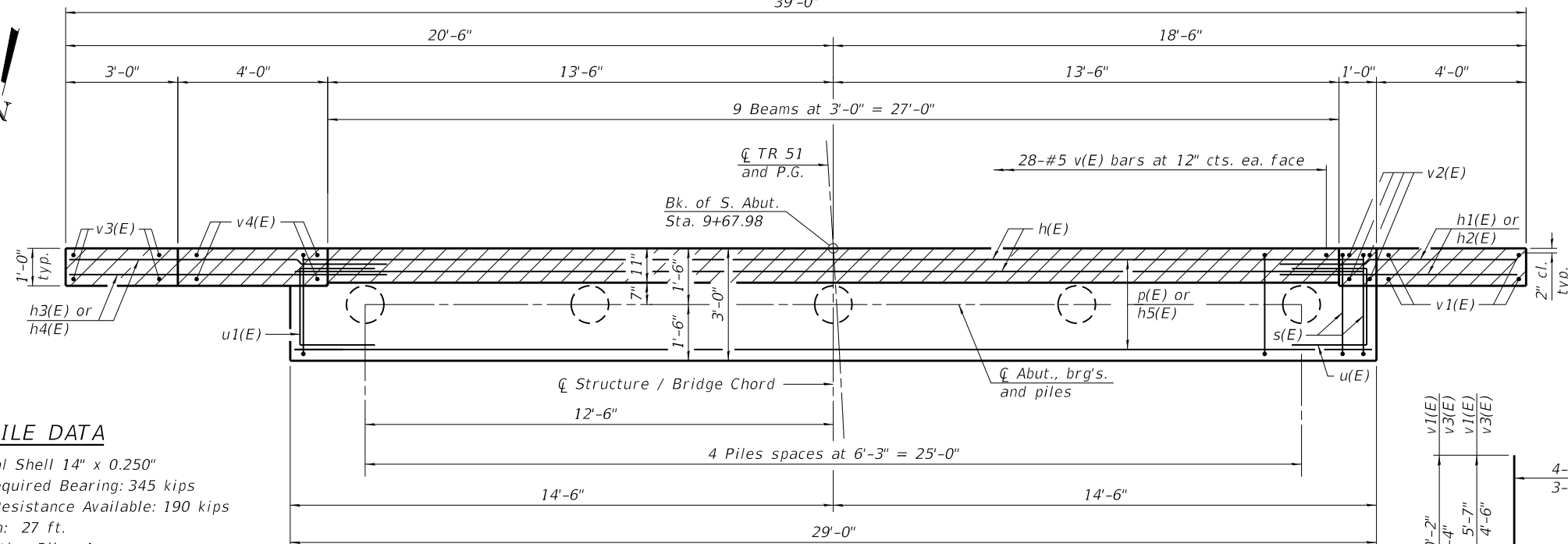
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	18
CONTRACT NO. 91600			ILLINOIS FED. AID PROJECT 6ASM(450)	



SECTION THRU ABUTMENT
See sheet 4 for Fabric Bearing Pad details.

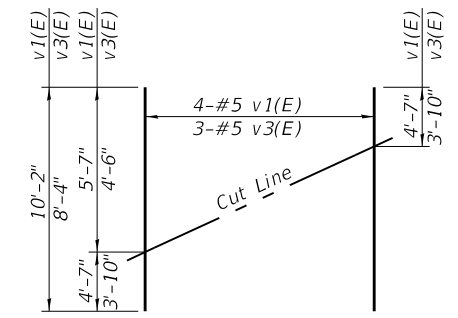
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	26'-8"	—
h1(E)	26	#5	7'-7"	—
h2(E)	2	#5	7'-10"	—
h3(E)	22	#5	9'-7"	—
h4(E)	2	#5	9'-9"	—
h5(E)	4	#5	28'-8"	—
p(E)	10	#7	28'-8"	—
s(E)	28	#5	11'-7"	□
u(E)	9	#6	9'-4"	U
u1(E)	30	#5	7'-6"	U
v(E)	56	#5	4'-5"	—
v1(E)	4	#5	10'-2"	—
v2(E)	4	#5	5'-11"	—
v3(E)	3	#5	8'-4"	—
v4(E)	10	#5	4'-10"	—
Structure Excavation		Cu. Yd.	50	
Concrete Structures		Cu. Yd.	15.9	
Reinforcement Bars, Epoxy Coated		Pound	2,440	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	108	
Driving Piles		Foot	108	
Test Pile, Metal Shells		Each	1	



PILE DATA

Type: Metal Shell 14" x 0.250"
Nominal Required Bearing: 345 kips
Factored Resistance Available: 190 kips
Est. Length: 27 ft.
No. Production Piles: 4
No. Test Piles: 1

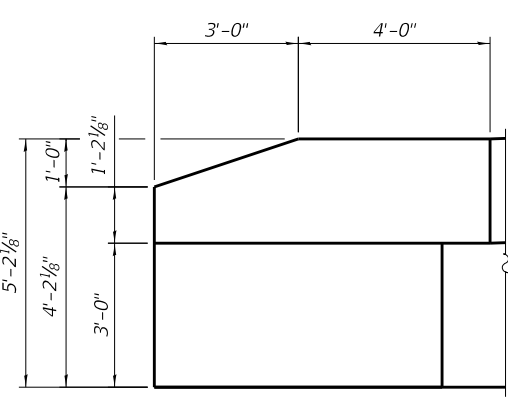


FIELD CUTTING DIAGRAM

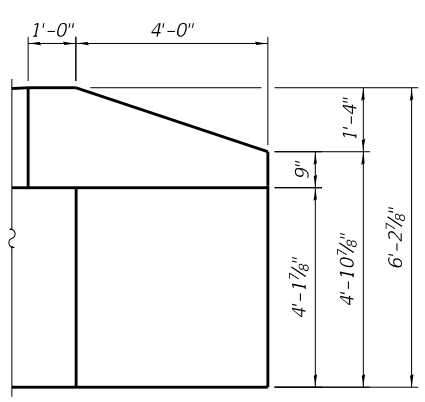
Order v1(E) and v3(E) bars full length. Cut as shown and use remainder of bars in opposite face.

Notes:

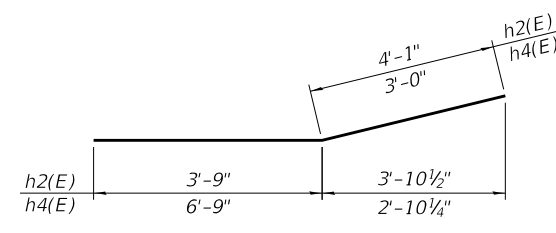
- The hatched area shall be poured after the beams are in place. The backwall and the wingwalls shall be cast against the beams.
- Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).
- If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".
- For details of piles, see sheet 9 of 10.



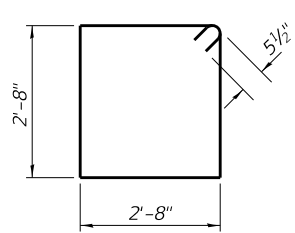
SOUTHEAST WINGWALL



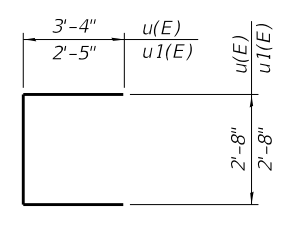
SOUTHWEST WINGWALL



BAR h2(E) & h4(E)

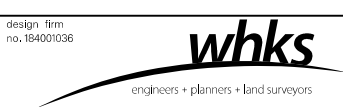


BARS s(E)



BAR u(E) & u1(E)

FILE NAME: L:\Jobs\Proj_County\026 TR 51 Bridge Replacement\CADD\CAD_Sheets\074331-91600.dgn



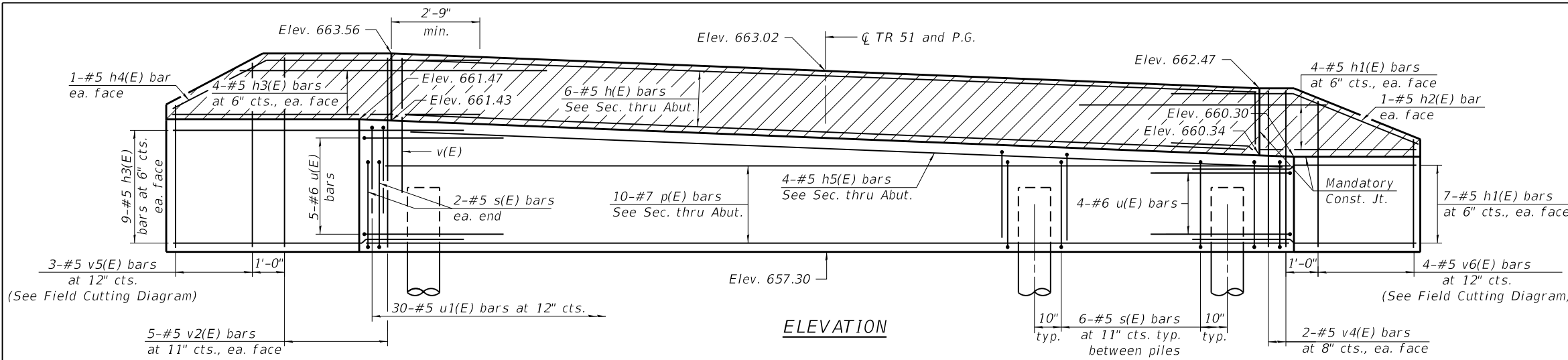
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PLOT DATE = 2/3/2021	CHECKED - BRD/SBC	REVISED -
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	CHECKED - GEM/SBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

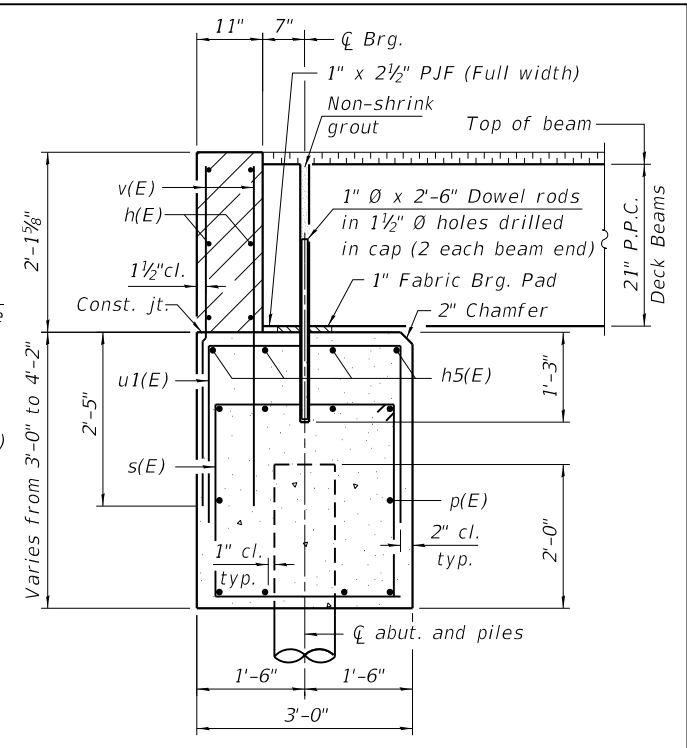
**SOUTH ABUTMENT
STRUCTURE NO. 074-3313**

SHEET 7 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 91600				
ILLINOIS		FED. AID PROJECT	6ASM(450)	

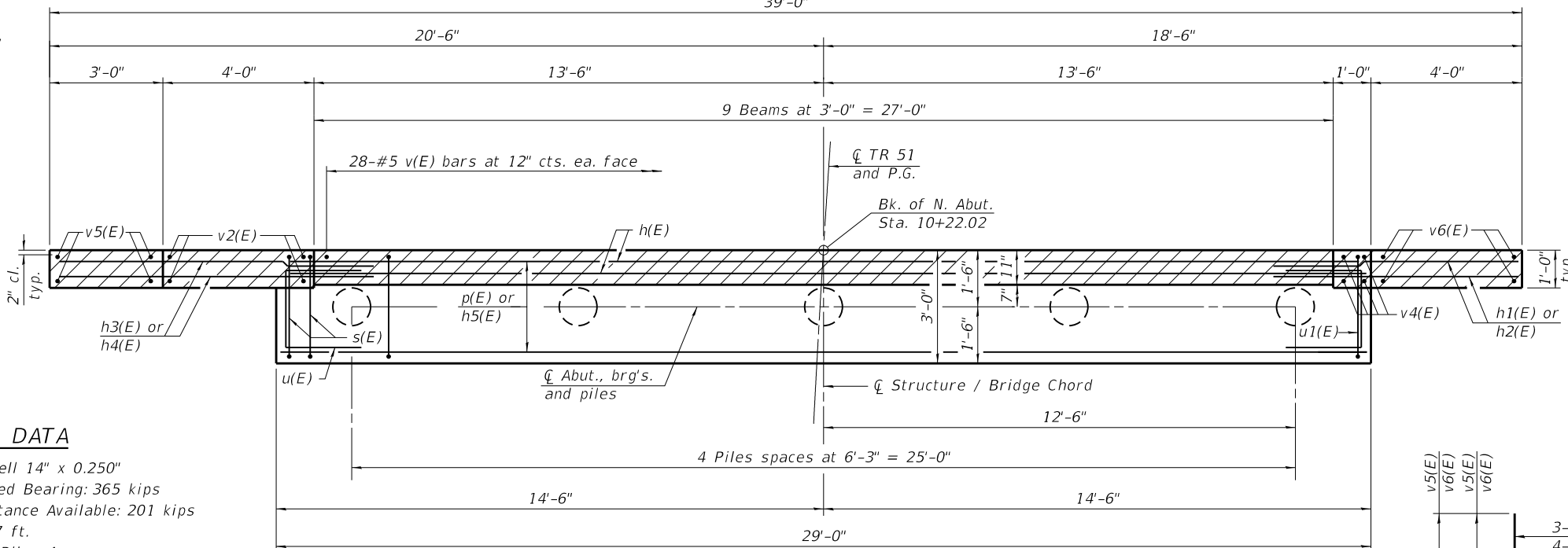


ELEVATION



SECTION THRU ABUTMENT

See sheet 4 for Fabric Bearing Pad details.



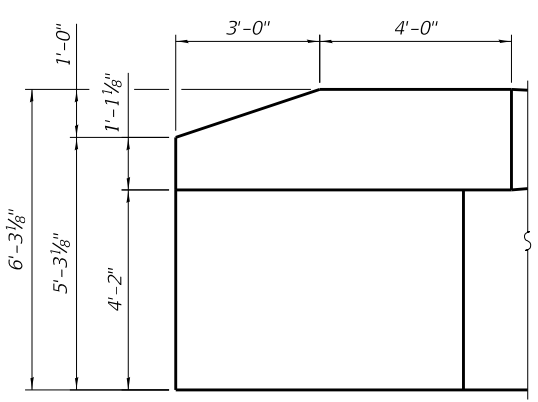
PLAN

BILL OF MATERIAL

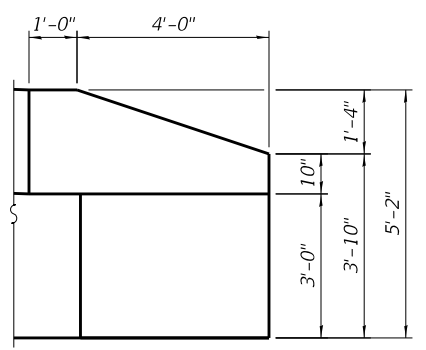
Bar	No.	Size	Length	Shape
h(E)	6	#5	26'-8"	—
h1(E)	22	#5	7'-7"	—
h2(E)	2	#5	7'-10"	—
h3(E)	26	#5	9'-7"	—
h4(E)	2	#5	9'-9"	—
h5(E)	4	#5	28'-8"	—
p(E)	10	#7	28'-8"	—
s(E)	28	#5	11'-7"	□
u(E)	9	#6	9'-4"	U
u1(E)	30	#5	7'-6"	U
v(E)	56	#5	4'-5"	—
v2(E)	10	#5	5'-11"	—
v4(E)	4	#5	4'-10"	—
v5(E)	3	#5	10'-6"	—
v6(E)	4	#5	8'-0"	—
Structure Excavation		Cu. Yd.	51	
Concrete Structures		Cu. Yd.	15.9	
Reinforcement Bars, Epoxy Coated		Pound	2,450	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	108	
Driving Piles		Foot	108	
Test Pile, Metal Shells		Each	1	

PILE DATA

Type: Metal Shell 14" x 0.250"
 Nominal Required Bearing: 365 kips
 Factored Resistance Available: 201 kips
 Est. Length: 27 ft.
 No. Production Piles: 4
 No. Test Piles: 1



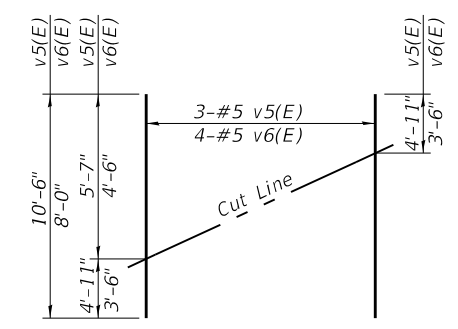
NORTHWEST WINGWALL



NORTHEAST WINGWALL

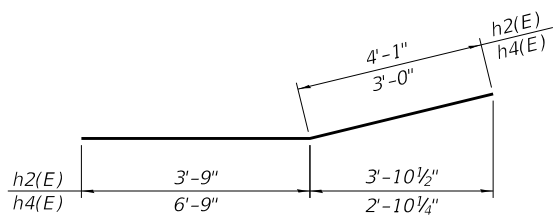
Notes:

- The hatched area shall be poured after the beams are in place. The backwall and wingwalls shall be cast against the beams.
- Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).
- If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".
- For details of piles, see sheet 9 of 10.

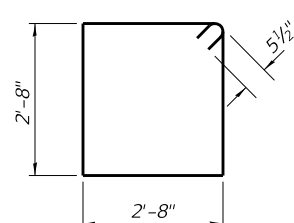


FIELD CUTTING DIAGRAM

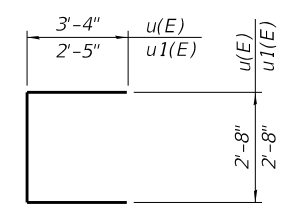
Order v5(E) and v6(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR h2(E) & h4(E)



BARS s(E)



BAR u(E) & u1(E)

FILE NAME: L:\005\PRJ\County\026 TR 51 Bridge Replacement\CADD\CAD_Sheets\074313-01.600.dgn



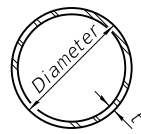
design firm no. 184001036	USER NAME = dheberling	DESIGNED - GEM	REVISED -
		CHECKED - BRD/SBC	REVISED -
	PLOT DATE = 2/3/2021	DRAWN - DLH	REVISED -
	PLOT DATE = 4:01:15 PM	CHECKED - GEM/SBC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT
 STRUCTURE NO. 074-3313**

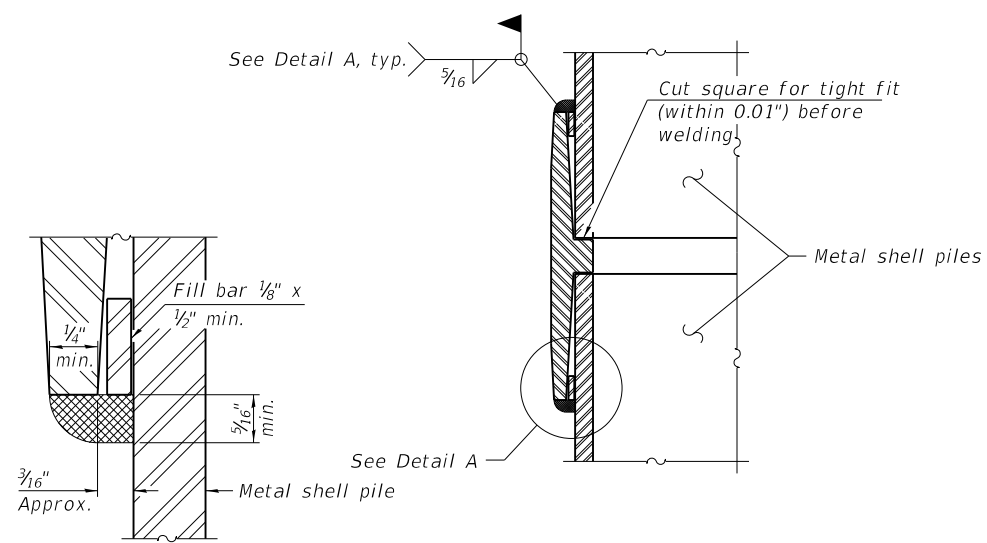
SHEET 8 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	20
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT 6ASM(450)				

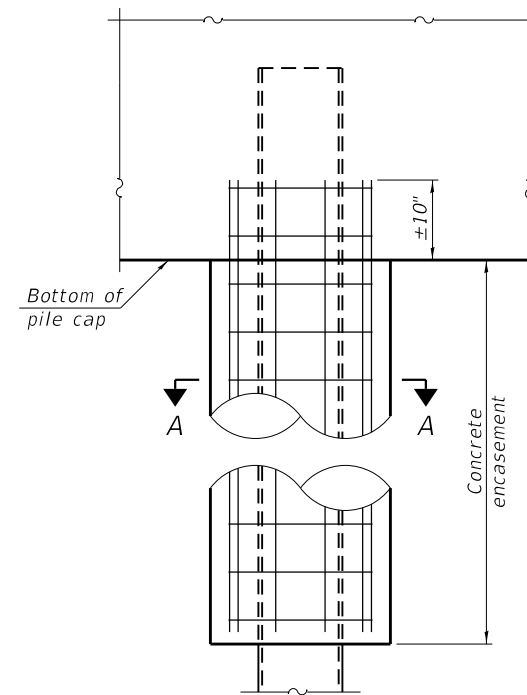


METAL SHELL PILE TABLE

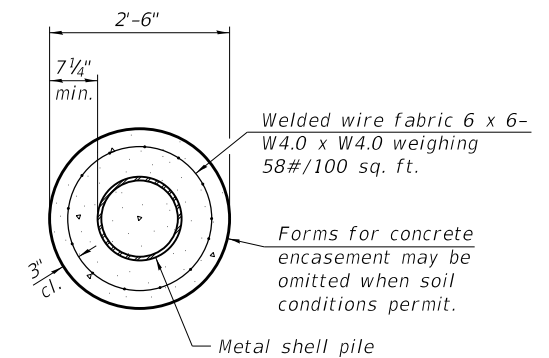
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

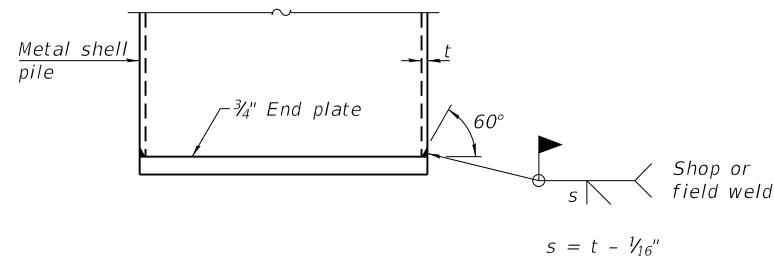


ELEVATION



SECTION A-A

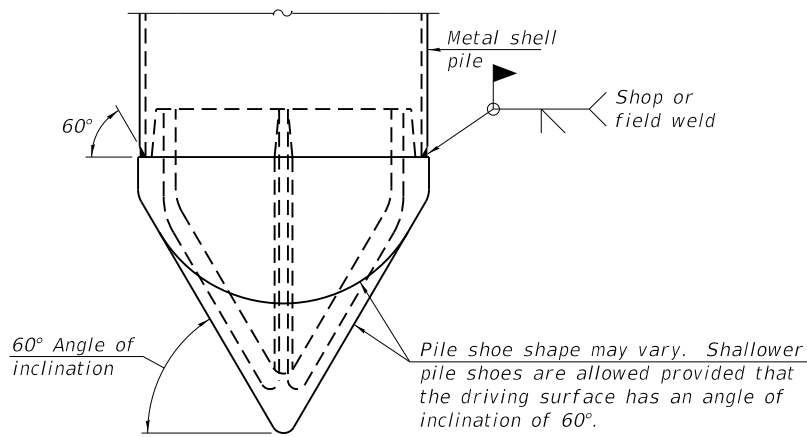
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

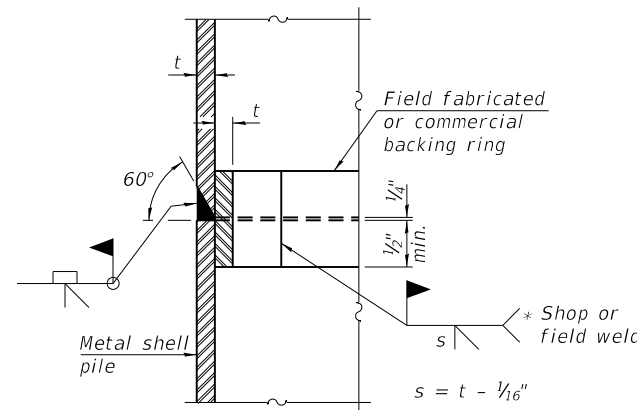
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



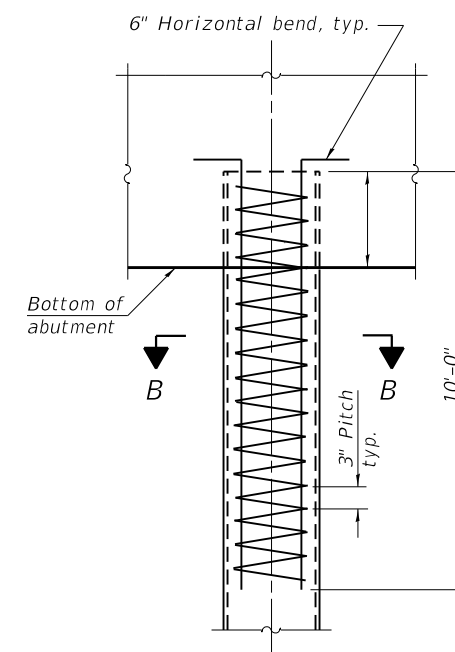
PILE SHOE ATTACHMENT

(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 80-50 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).

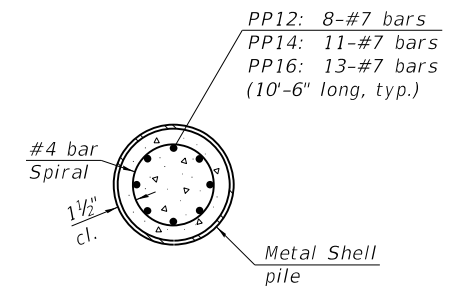


COMPLETE PENETRATION WELD SPLICE

* 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.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

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

F-MS 1-1-2020



design firm no. 184001036	USER NAME = dheberling	DESIGNED - GEM	REVISED -
		CHECKED - BRD/SBC	REVISED -
	PLOT DATE = 2/3/2021	DRAWN - DLH	REVISED -
	PLOT DATE = 4:01:15 PM	CHECKED - GEM/SBC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 074-3313**

SHEET 9 OF 10 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	21
CONTRACT NO. 91600				
ILLINOIS		FED. AID PROJECT	6ASM(450)	

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 4/17/20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 4/17/20

ROUTE TR 51 DESCRIPTION TR 51 Bridge Replacement

ROUTE TR 51 DESCRIPTION TR 51 Bridge Replacement

SECT. 20-06132-00-BR STRUCT. NO. 074-3043 DRILLED BY B. Williamson

SECT. 20-06132-00-BR STRUCT. NO. 074-3043 DRILLED BY B. Williamson

COUNTY Piatt LOCATION Sangamon Township S. 10, TWP. 19N, RNG. 6E

COUNTY Piatt LOCATION Sangamon Township S. 10, TWP. 19N, RNG. 6E

Boring No. / Station / Offset / Surface Elev.	DEPTH (ft)	BLOW COUNT	WATER	QU	B	S	P	W %	Surface Water Elev. / Groundwater Elev.: / when drilling / at Completion / after Hrs.	DEPTH (ft)	BLOW COUNT	WATER	QU	B	S	P	W %
B-1 South Abutment 100.20 ft 100.20 ft	0-4	4 S 12							90.2 74.2	0-5	5 11 16						
Oil & Chip Pavement / Stiff brown-dark brown SILTY CLAY LOAM	4-10	4 S 12								5-7	7 15 22						
	10-15	2 B 29 3 1.11 3								7-9	7 15 22						
94.20 ft	15-17	0 B 25 2 0.74 2								7-10	7 15 22						
Medium stiff dark brown SILTY CLAY LOAM	17-18	0 B 27 0 1								10-14	23 B 9 18 4.55 21						
91.70 ft	18-21	0 B 19 2 1.64 4								14-15	14 P 7 41 4.5+ 50/4"						
Very loose gray SANDY LOAM	21-23	2 B 15 3 1.11 4								15-18	23 P 7 32 4.5+ 40						
89.20 ft	23-26	3 B 15 10 1.39 7								18-21	14 P 11 50/4" 4.5+						
Stiff gray SILTY LOAM	26-30	4 6 10								21-25	14 P 7 19 B 10 26 4.5+ 40						
94.20 ft	30-33	7 10 18								25-28	13 P 6 50/5" 4.5+						
Medium dense gray fine to medium SAND	33-34	End of Boring at 50'								28-30							
79.20 ft	34-40									30-40							
End of Boring at 50'	40-50									40-50							
75.20 ft	50-55									50-55							

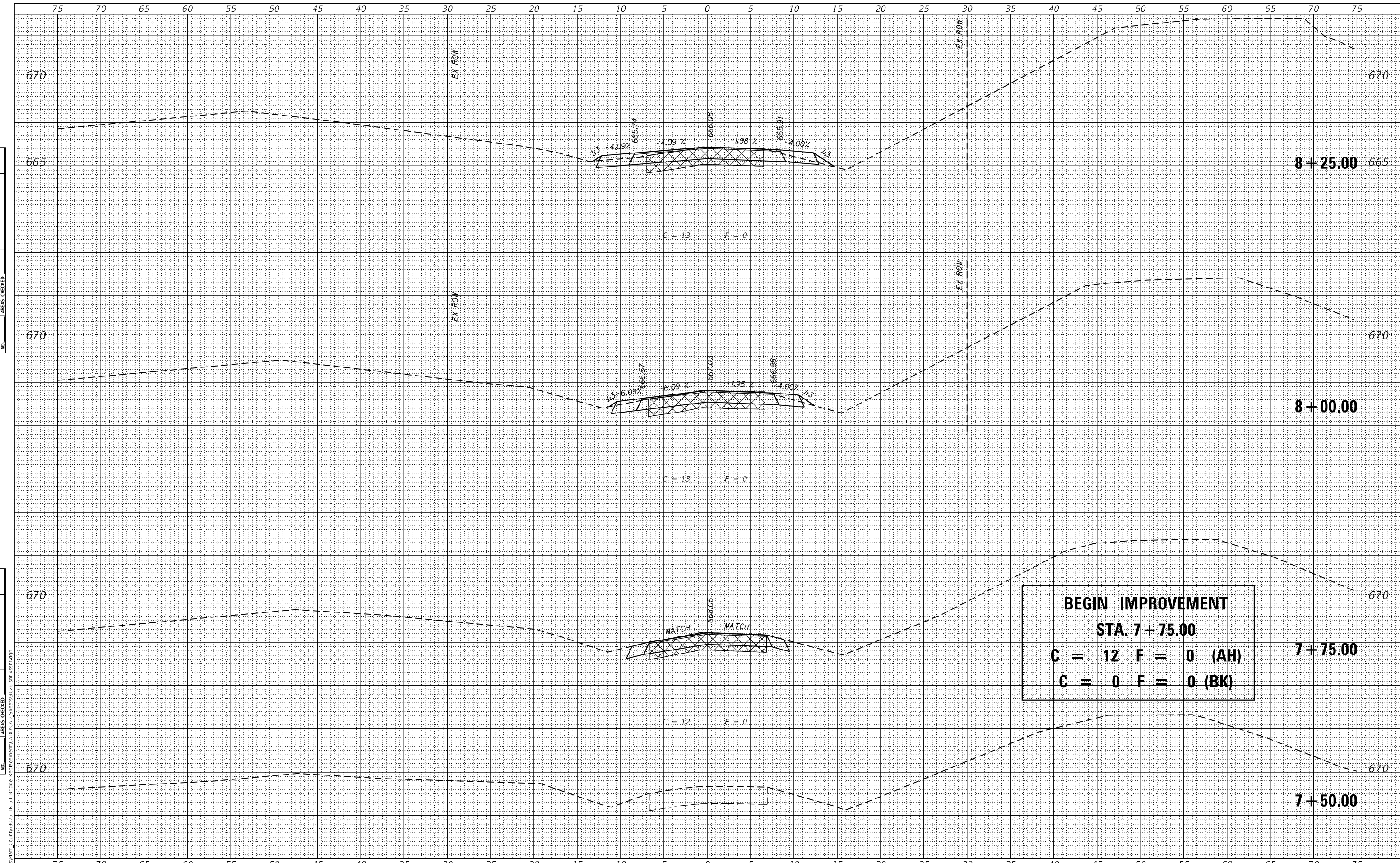
Boring No. / Station / Offset / Surface Elev.	DEPTH (ft)	BLOW COUNT	WATER	QU	B	S	P	W %	Surface Water Elev. / Groundwater Elev.: / when drilling / at Completion / after Hrs.	DEPTH (ft)	BLOW COUNT	WATER	QU	B	S	P	W %
B-2 North Abutment 99.40 ft 99.40 ft	0-6	5 B 18 6 1.76 6							88.9 84.4	0-8	8 16 22						
Oil & Chip Pavement / Aggregate Base / Stiff dark brown-gray SILTY CLAY LOAM	6-10	5 B 18 6 1.76 6								8-10	8 16 22						
	10-14	3 B 24 3 1.56 4								10-17	17 S 9 17 2.65 25						
93.40 ft	14-16	2 B 22 1 0.34 2								17-25	17 S 9 17 2.65 25						
Soft dark brown-gray CLAY LOAM	16-18	0 B 18 1 1								25-28	16 P 9 89 4.5+ 42						
91.40 ft	18-21	0 B 18 1 1								28-30							
Very loose dark brown SANDY LOAM	21-23	3 5 3								30-33	19 P 8 33 4.5+ 50/3"						
89.90 ft	23-26	2 B 23 1 0.86 2								33-35	19 P 7 26 4.5+ 40						
Loose gray fine to medium SAND	26-28	2 B 14 3 2.05 9								35-38	13 P 6 50/5" 4.5+						
91.40 ft	28-31	7 B 10 16 4.26 21								38-40							
Very stiff gray SILTY LOAM	31-33	7 15 21								40-45							
83.40 ft	33-36	7 19 7								45-50							
Hard gray CLAY LOAM (TILL)	36-39									50-55							
81.40 ft	39-40									55-58							
Dense to medium dense gray fine to coarse SAND	40-45									58-60							
78.40 ft	45-50									60-65							
End of Boring at 50'	50-55									65-70							
74.40 ft	70-75									75-80							

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
 Stations, Depths, Offset, and Elevations are in Feet

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
 Stations, Depths, Offset, and Elevations are in Feet

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREA'S CHECKED	TEMPLATE
	AREA'S CHECKED



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 design firm
 no. 184001036
whks
 engineers • planners • land surveyors

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	CHECKED - CWC	REVISED
PLOT SCALE = 120,000' / ft.	DRAWN - GSI	REVISED
PLOT DATE = 2/3/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

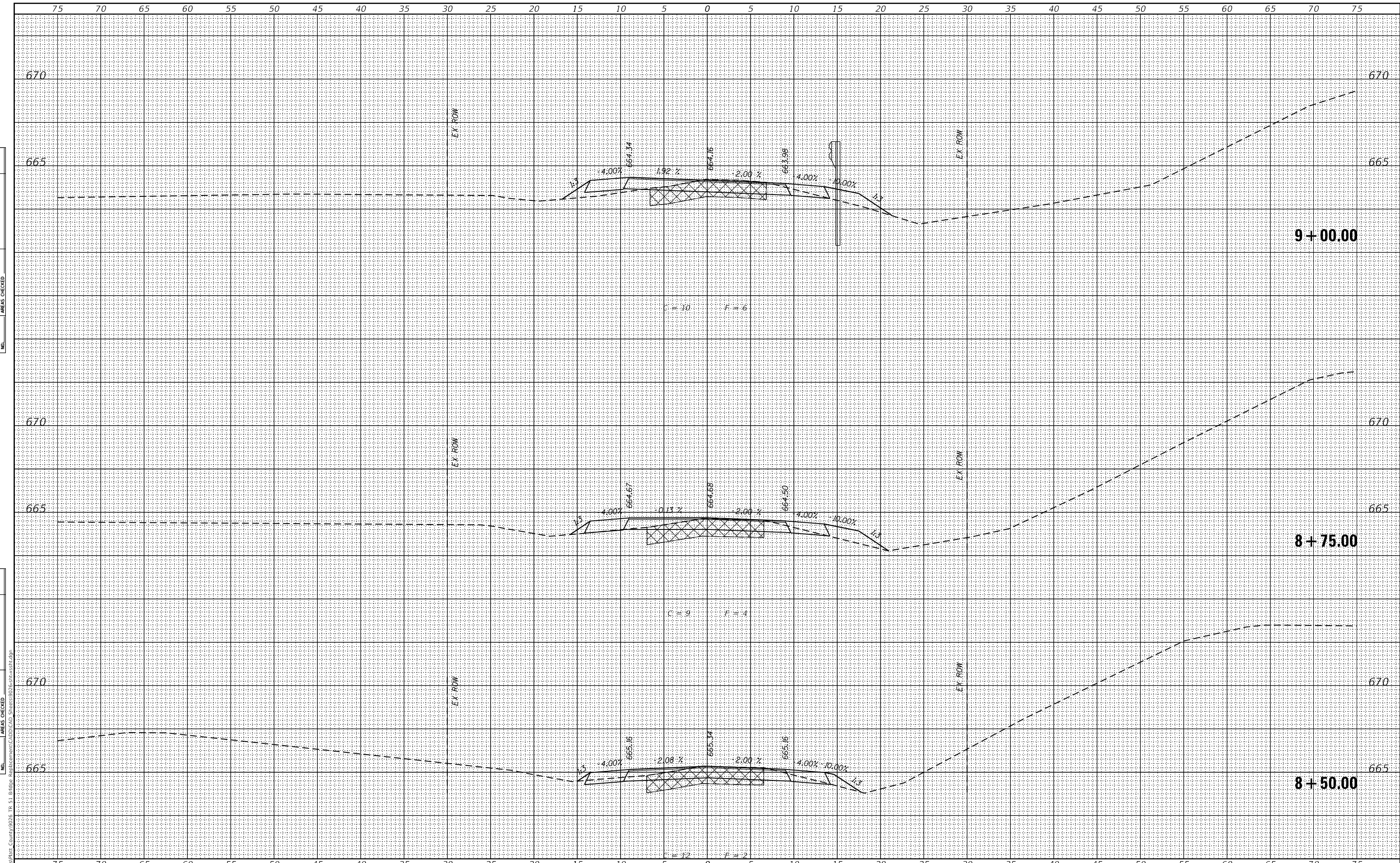
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T.R. 51 OVER SANGAMON RIVER TRIBUTARY	
SCALE: 1" = 5'	SHEET 1 OF 8 SHEETS
STA. 7+50.00 TO STA. 8+25.00	

**BEGIN IMPROVEMENT
 STA. 7+75.00
 C = 12 F = 0 (AH)
 C = 0 F = 0 (BK)**

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	23
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT				645M(450)

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FINAL	
SURVEY	
NOTE BOOK	
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DATE	
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 design firm
 no. 184001036
whks
 engineers + planners + land surveyors

USER NAME =	SOPERATORS	DESIGNED -	BBJ	REVISED	
		CHECKED -	CWC	REVISED	
PLOT SCALE =	1/20,000' / ft.	DRAWN -	GSI	REVISED	
PLOT DATE =	2/3/2021	CHECKED -	RKA	REVISED	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1" = 5'
 SHEET 2 OF 8 SHEETS
 STA. 8+50.00 TO STA. 9+00.00

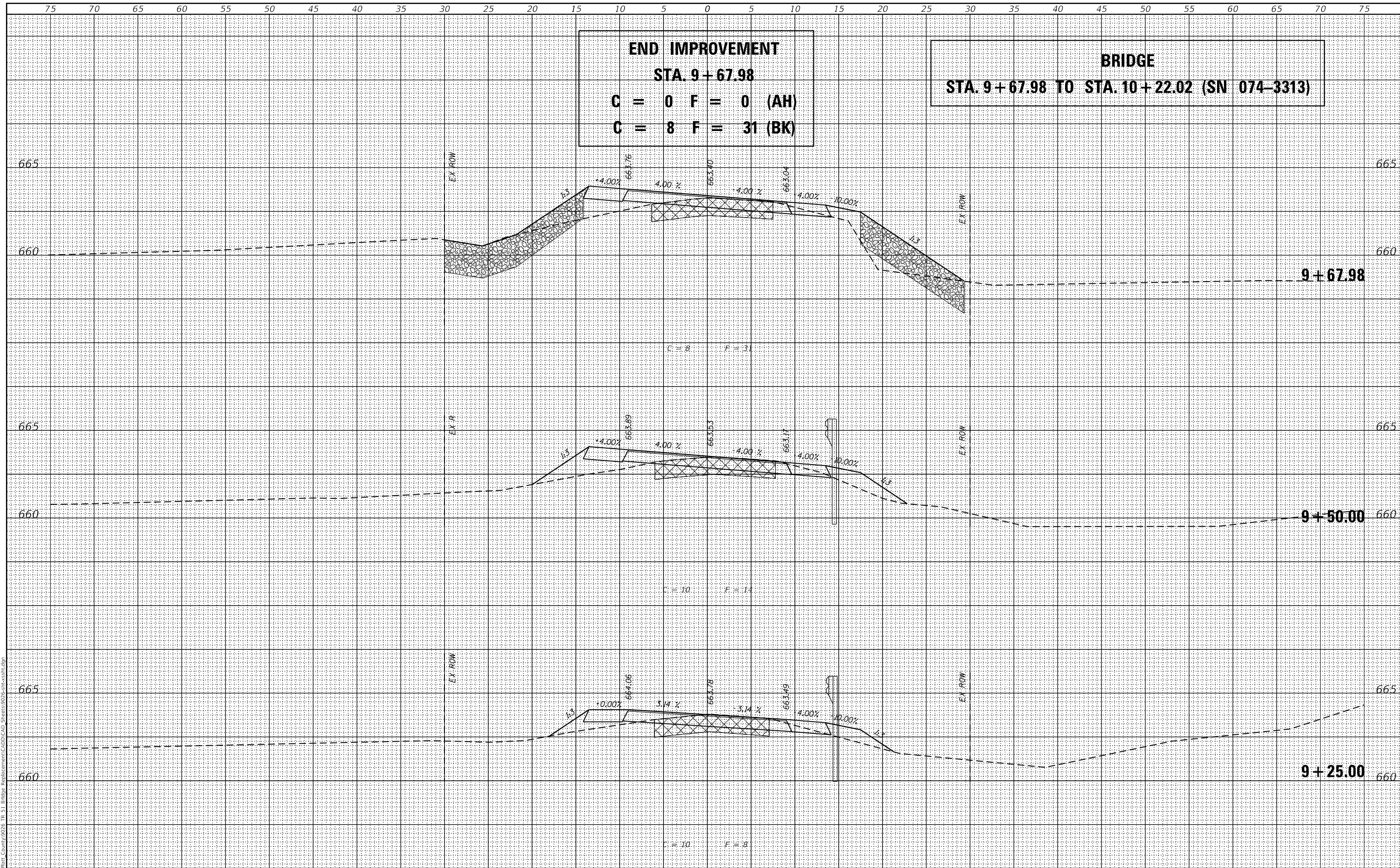
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51	20-06132-00-BR	PIATT	30	24
CONTRACT NO. 91600			65M(450)	
ILLINOIS		FED. AID PROJECT		

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

DATE	
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TEMPLATE	
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NOTE BOOK	
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END IMPROVEMENT
STA. 9+67.98
C = 0 F = 0 (AH)
C = 8 F = 31 (BK)

BRIDGE
STA. 9+67.98 TO STA. 10+22.02 (SN 074-3313)



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Design firm
 no. 184001036
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 engineers • planners • land surveyors

USER NAME =	SOPERATORS	DESIGNED -	BBJ	REVISED	
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PLOT SCALE =	120,000' / ft.	DRAWN -	GSI	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

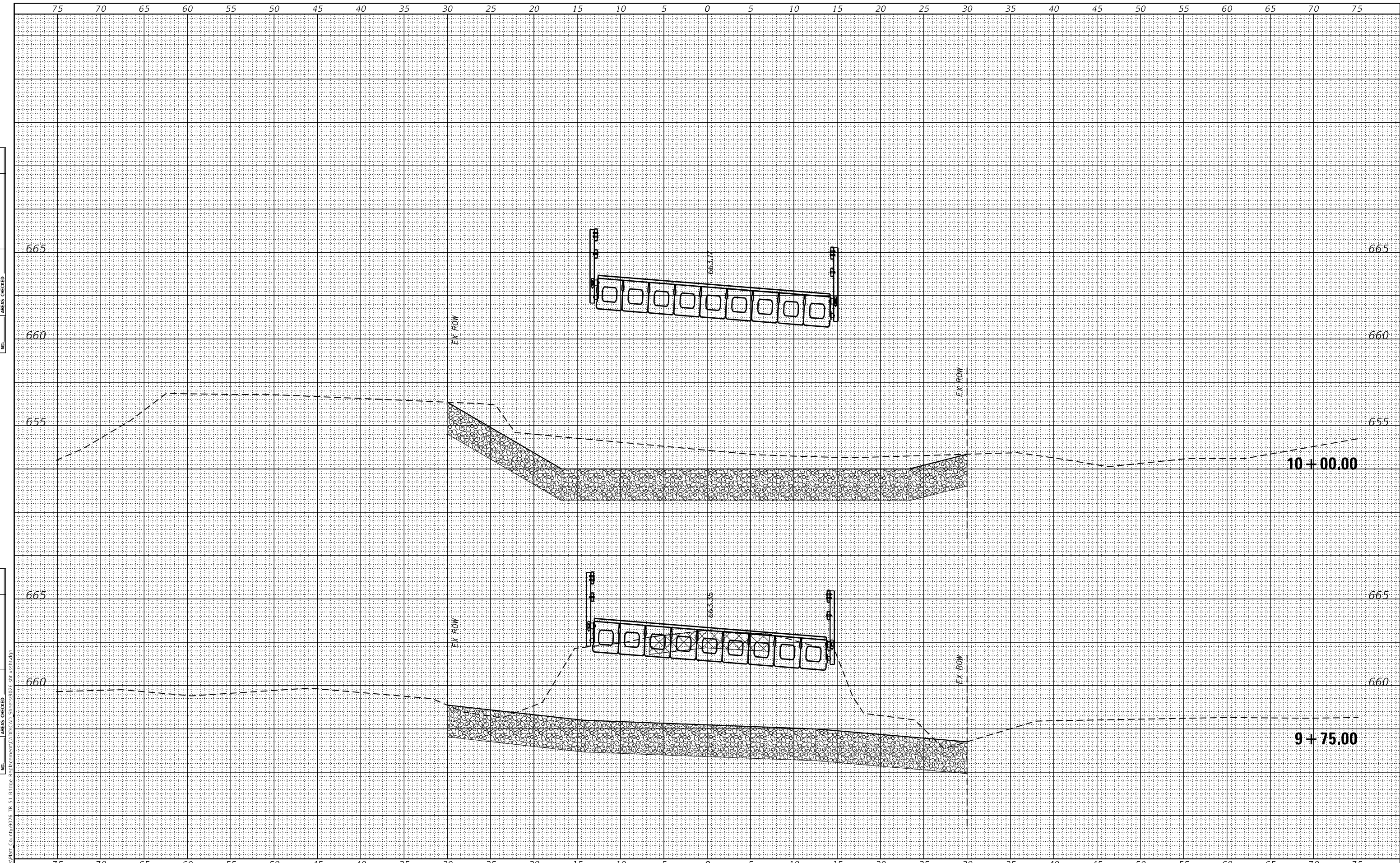
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T.R. 51 OVER SANGAMON RIVER TRIBUTARY

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51	20-06132-00-BR	PIATT	30	25
				CONTRACT NO. 91600
				ILLINOIS FED. AID PROJECT 645M(450)

DATE	
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PLOTTED	
TEMPLATE	
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FINAL	
SURVEY	
NOTE BOOK	
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DATE	
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NOTE BOOK	
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 design firm
 no. 184001036
whks
 engineers • planners • land surveyors

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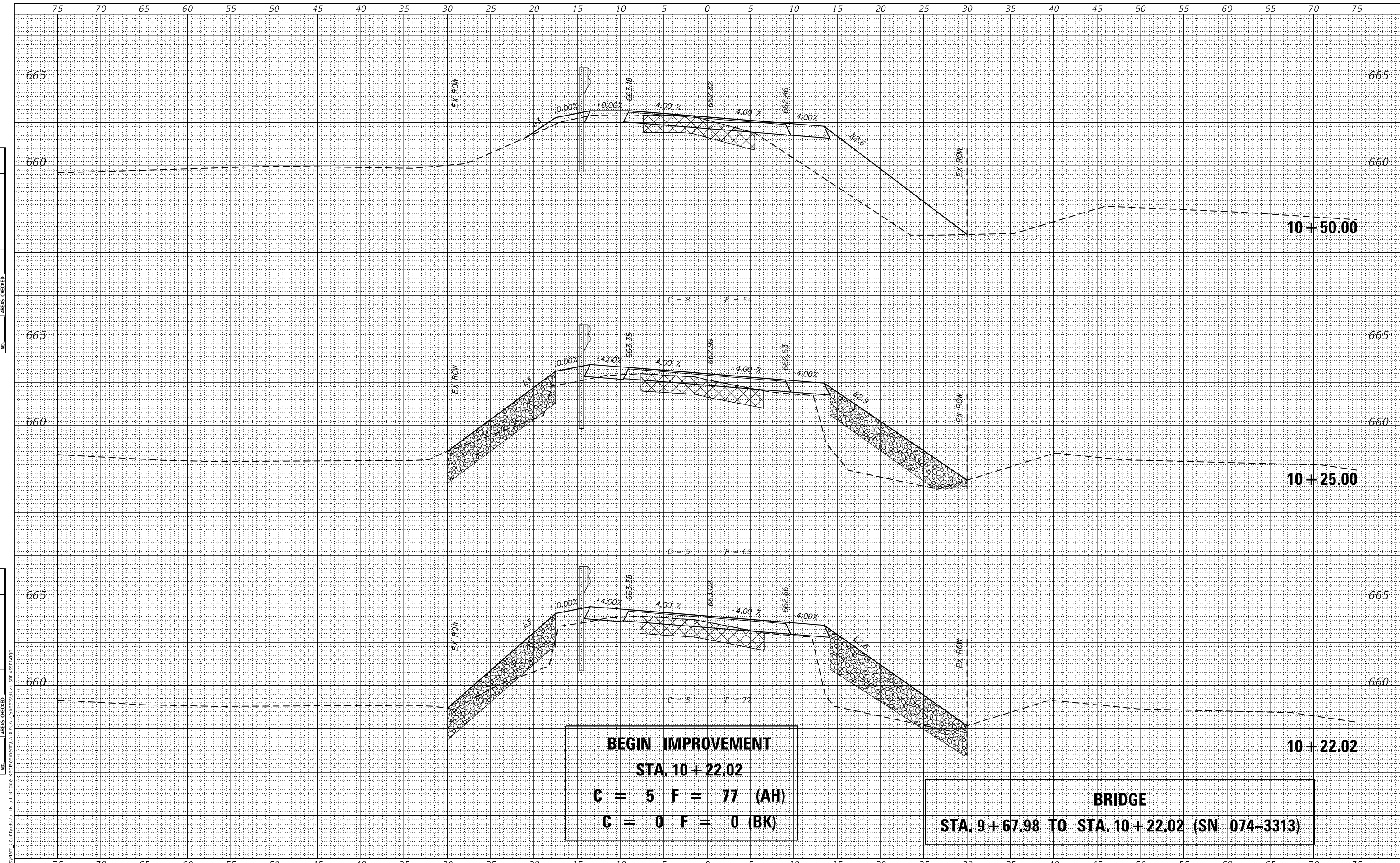
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
T.R. 51 OVER SANGAMON RIVER TRIBUTARY
 SCALE: 1" = 5'
 SHEET 4 OF 8 SHEETS
 STA. 9+75.00 TO STA. 10+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	26
CONTRACT NO. 91600			ILLINOIS FED. AID PROJECT 645M(450)	

DATE	
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SURVEYED	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	

DATE	
BY	
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 design firm
 no. 184001036
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USER NAME =	SOPERATORS	DESIGNED -	BBJ	REVISED	
		CHECKED -	CWC	REVISED	
PLOT SCALE =	120,000' / ft.	DRAWN -	GSI	REVISED	
PLOT DATE =	2/3/2021	CHECKED -	RKA	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

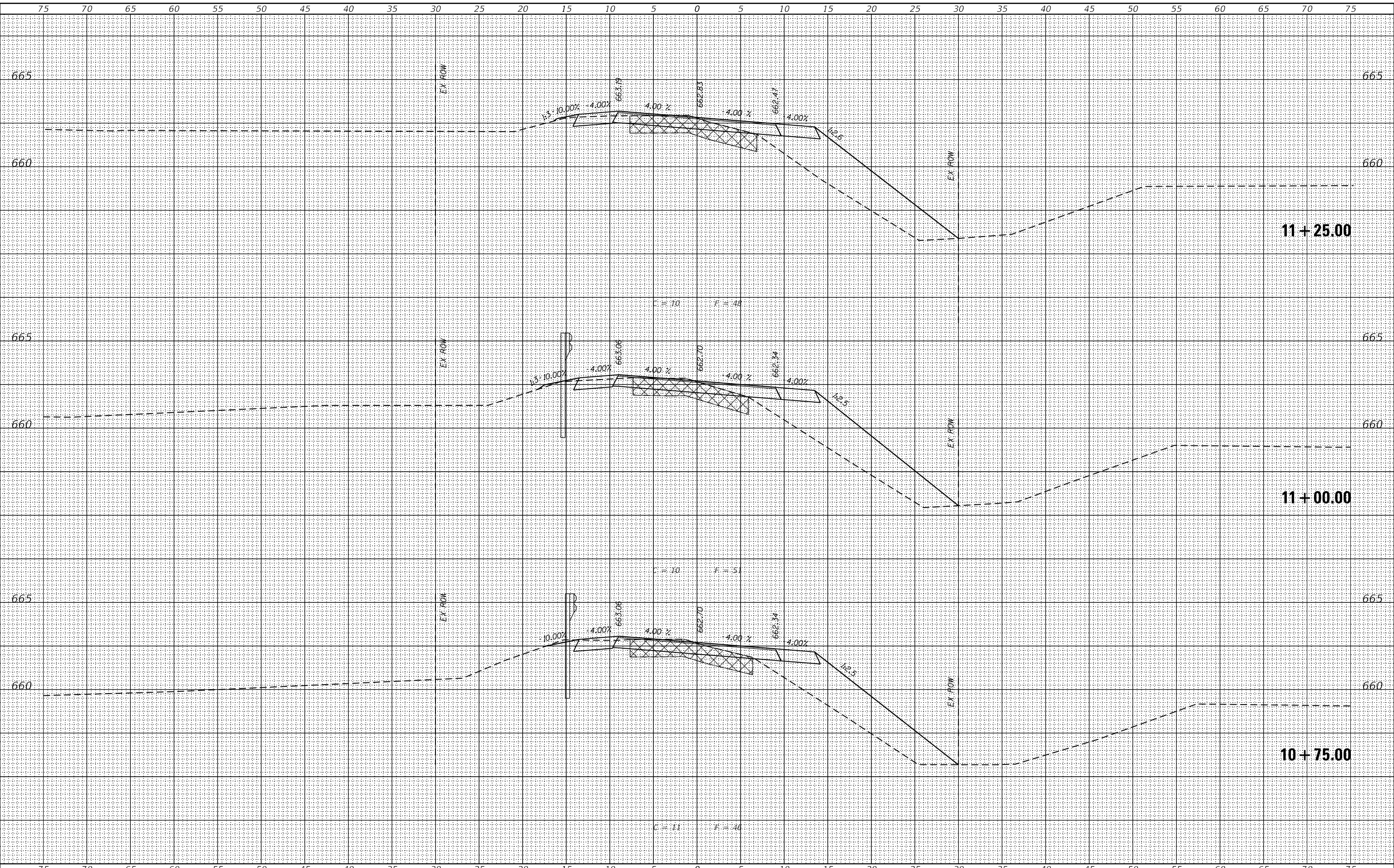
CROSS SECTIONS
T.R. 51 OVER SANGAMON RIVER TRIBUTARY
 SCALE: 1" = 5'
 SHEET 5 OF 8 SHEETS
 STA. 10+22.02 TO STA. 10+50.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	27
CONTRACT NO. 91600			65M(450)	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FINAL	
SURVEY	
NOTE BOOK	
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DATE	
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 design firm
 no. 184001036



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USER NAME	= SOPERATORS	DESIGNED	- BBJ	REVISED	
		CHECKED	- CWC	REVISED	
PLOT SCALE	= 1/20,000' / ft.	DRAWN	- GSI	REVISED	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

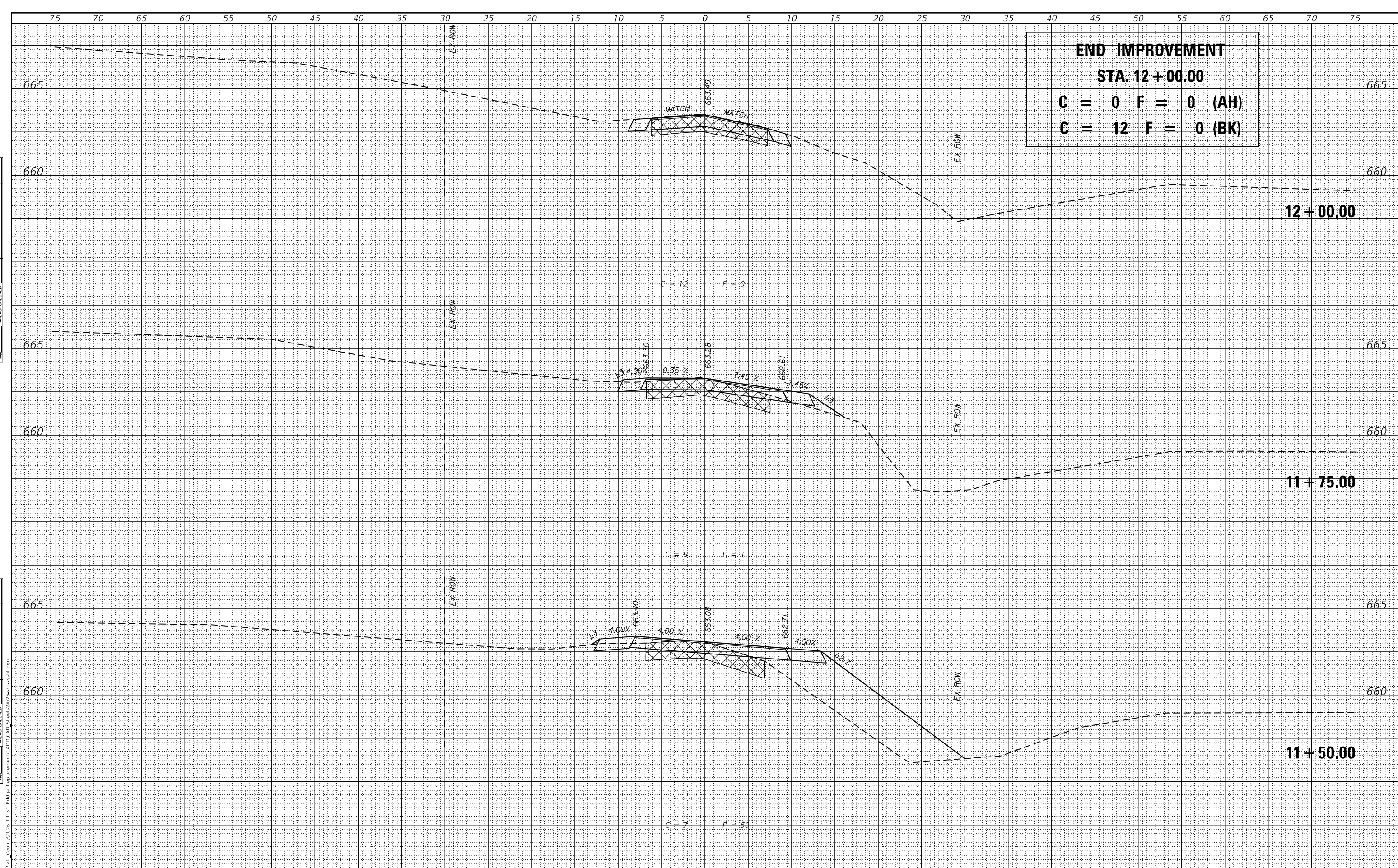
CROSS SECTIONS
 T.R. 51 OVER SANGAMON RIVER TRIBUTARY

SCALE: 1" = 5' SHEET 6 OF 8 SHEETS STA. 10+75.00 TO STA. 11+25.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	28
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT			6AS(450)	

BY	DATE

FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



END IMPROVEMENT
STA. 12+00.00
C = 0 F = 0 (AH)
C = 12 F = 0 (BK)

MODEL Default
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 design firm
 no. 184001036



USER NAME =	SOPERATORS	DESIGNED -	BBJ	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

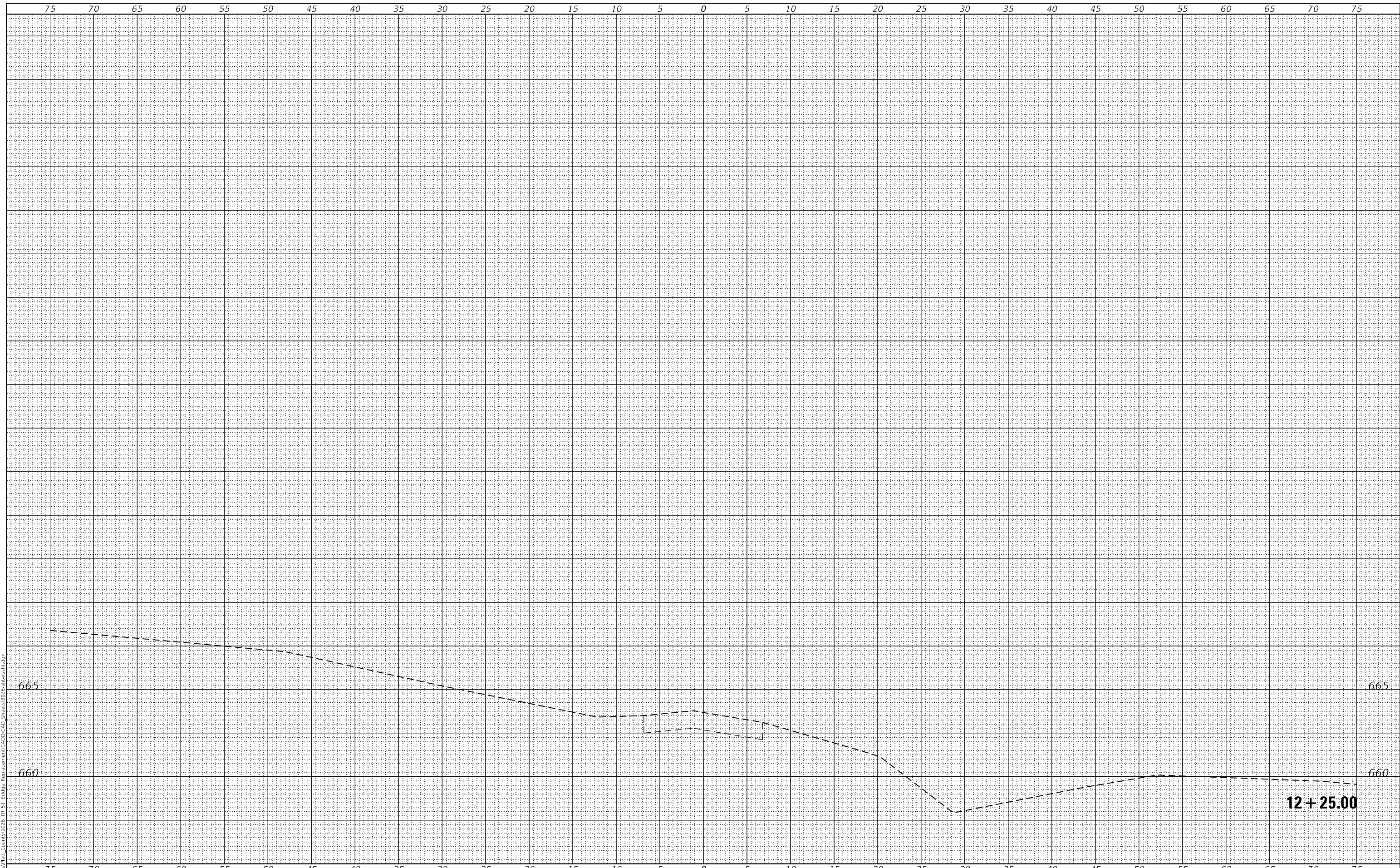
CROSS SECTIONS			
T.R. 51 OVER SANGAMON RIVER TRIBUTARY			
SCALE: 1" = 5'	SHEET 7	OF 8 SHEETS	STA. 11+50.00 TO STA. 12+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	29
CONTRACT NO. 91600				
ILLINOIS FED. AID PROJECT			65M(450)	

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design firm
whks
engineers • planners • land surveyors

USER NAME = SOPERATORS	DESIGNED - BBJ	REVISED
	CHECKED - CWC	REVISED
PLOT SCALE = 120,000' / ft.	DRAWN - GSJ	REVISED
PLOT DATE = 2/3/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
T.R. 51 OVER SANGAMON RIVER TRIBUTARY**

SCALE: 1" = 5' SHEET 8 OF 8 SHEETS STA. 12+25.00 TO STA. 12+25.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
51	20-06132-00-BR	PIATT	30	30
			CONTRACT NO. 91600	
			ILLINOIS FED. AID PROJECT 645M(450)	