F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 93750		

01-19-2024 LETTING ITEM 066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED ILLINOIS TRANSPORTATION ENHANCEMENT PROJECT LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

CITY OF PANA

SECTION 16–00054–00–BR
PROJECT YA6Z(398)
CHRISTIAN COUNTY
C–96–215–17

INDEX OF SHEETS

STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATES FOR BRIDGES
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-09	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

SEE SHEET NO. 2 FOR LIST OF UTILITIES.

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF THE EXISTING 182'-8" LONG, 9'-0" FACE TO FACE CURB, 15 SPAN WOODEN RAILROAD TRESTLE AND CONSTRUCTION OF A SINGLE SPAN STEEL PEDESTRIAN TRUSS SUPERSTRUCTURE. 201'-8" BACK TO BACK ABUTMENTS, 10'-0" FACE TO FACE CURBS ON PILE BENT SPILL-THRU ABUTMENTS.

1" = 100' / 1" = 10'; 1" = 50'; 1" = 40'; 1" = 30'; 1" = 20'

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.

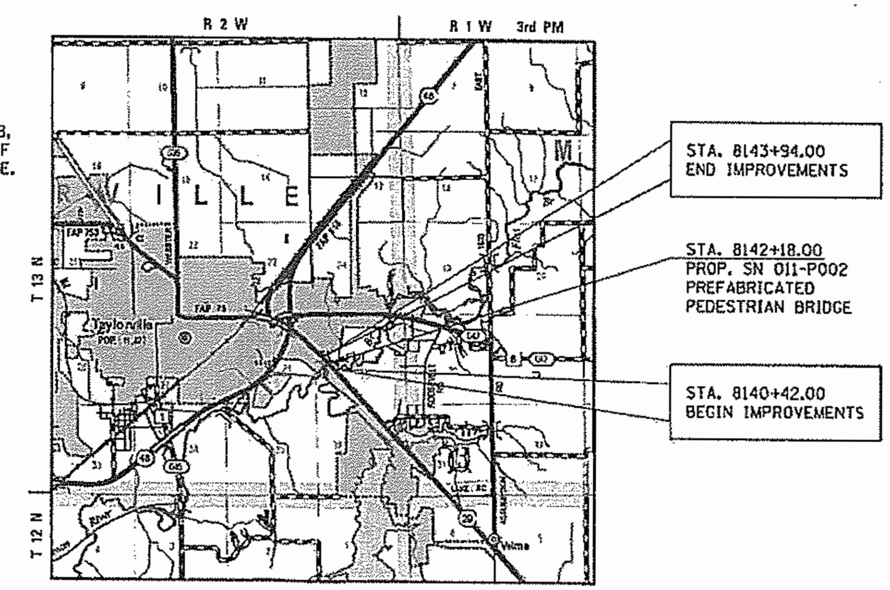
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER
PROJECT MANAGER

CONTRACT NO. 93750

N

APPROXIMATE SCALE IN MILES (0 1 2)



STA. 8143+94.00
END IMPROVEMENTS

STA. 8142+18.00
PROP. SN 011-P002
PREFABRICATED
PEDESTRIAN BRIDGE

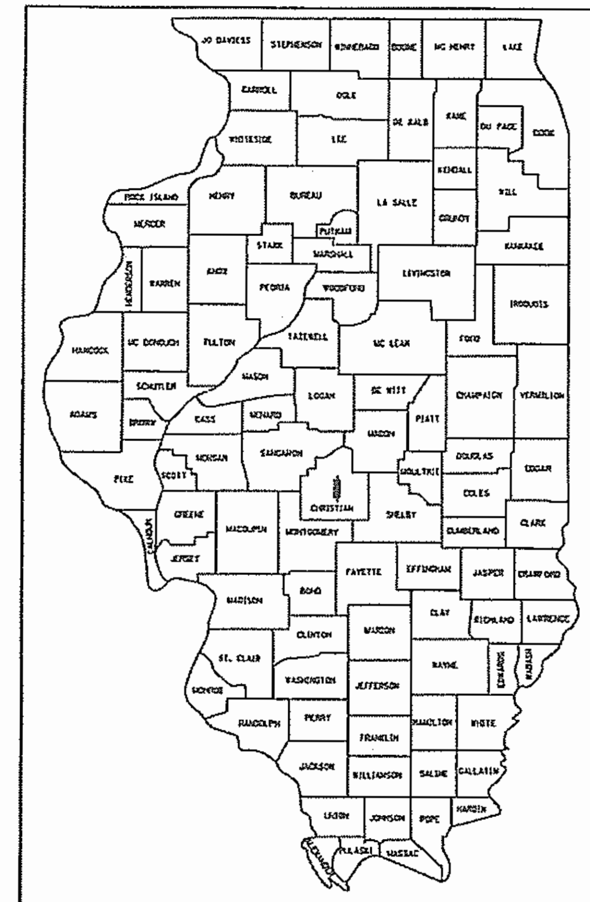
STA. 8140+42.00
BEGIN IMPROVEMENTS

LOCATION MAP

NET LENGTH OF PROJECT = 352.00 FEET = 0.067 MILES

DESIGN DESIGNATION

MULTI USE TRAIL
DESIGN SPEED: NONE REQUIRED



LOCATION OF SECTION INDICATED THUS:–

EXPIRES: 11/30/2023

APPROVED 9/27/23 2023
MAYOR

PASSED 10-19 2023
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review 10-19 2023
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

KUHN & TRELLO
CONSULTING ENGINEERS

KTCE PROJECT: 22063

COMPUTER FILE NO. 17022-sht-01_Cover.dgn

PROJECT 22063
6/13/23 - MDS

PLOT DRIVER = 22063.PDF_11x17.pltcfg

SUMMARY OF QUANTITIES

	ITEM NO.	ITEM	UNIT	TOTAL
#	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	93
#	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	134
	20300100	CHANNEL EXCAVATION	CU YD	79
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	20
	28000400	PERIMETER EROSION BARRIER	FOOT	475
	28100107	STONE RIPRAP, CLASS A4	SQ YD	798
	28200200	FILTER FABRIC	SQ YD	798
	35800100	PREPARATION OF BASE	SQ YD	146
	35800200	AGGREGATE BASE REPAIR	TON	5
*	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	38
*	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	16
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	95
	50300225	CONCRETE STRUCTURES	CU YD	15.2
	50300300	PROTECTIVE COAT	SQ YD	28.2
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	9.4
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,760
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	120
	51202305	DRIVING PILES	FOOT	120
	51203600	TEST PILE STEEL HP12X53	EACH	2
	51500100	NAME PLATES	EACH	1
	52100520	ANCHOR BOLTS, 1"	EACH	8
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	43
	58700300	CONCRETE SEALER	SQ FT	336
	67100100	MOBILIZATION	L SUM	1
*	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	2,000
*	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	300
*	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
*	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	185
*	X4811300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	11
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

SUMMARY OF QUANTITIES

	ITEM NO.	ITEM	UNIT	TOTAL
*	XX008340	TIMBER BRIDGE APPROACH RAILING	FOOT	300
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*	Z0015500	DEBRIS REMOVAL	L SUM	1
*	Z0022810	FENCE REMOVAL (SPECIAL)	FOOT	300
*	Z0064600	SELECTIVE CLEARING	ACRE	0.04
~	Z0076600	TRAINEES	HOUR	500
~	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500

CONSTRUCTION CODE: 0028

* SPECIAL PROVISION

\# SPECIALTY ITEM

~ 0042

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	VOIDS
HMA SURFACE	IL-9.5, MIX "C"	PG 64-22	4.0% @ N50

GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST ADDITION (INCLUDING ALL ADDITIONS AND ADDENDA), AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION. IN CASE OF CONFLICT, THE MORE RESTRICTIVE SPECIFICATIONS SHALL APPLY.

2. WHEN SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

3. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF, AT ANY TIME, HE DAMAGES OR DESTROYS PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINAL PRODUCT WHICH IS COMPLIANT WITH ALL LOCAL, STATE, AND FEDERAL AMERICANS WITH DISABILITIES ACT (A.D.A.) REQUIREMENTS. IF THE CONTRACTOR BELIEVES THAT CONSTRUCTION DOCUMENTS WILL PREVENT COMPLIANCE WITH A.D.A., HE SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO PERFORM DUE DILIGENCE WITH RESPECT TO A.D.A. REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM LIABILITY FOR THE SAME.

5. THE OWNER WILL PROCURE ALL CONSTRUCTION PERMITS. THE CONTRACTOR SHALL GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

6. THE CONTRACTOR SHALL FURNISH ALL CONSTRUCTION SIGNS AND BARRICADES AS REQUIRED.

7. THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATION USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. CALL JULIE 1-800-892-0123 PRIOR TO CONSTRUCTION.

8. SUMMARY OF QUANTITIES FOR MAJOR CONSTRUCTION ITEMS ARE INTENDED AS A GUIDE FOR THE CONTRACTOR TO DETERMINE THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO REASONABLE VARIATIONS IN THE QUANTITIES.

9. ALL SURPLUS EXCAVATED MATERIAL AND SPOILS SHALL BE DISPOSED OF OFFSITE AT A LOCATION APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.

10. ALL SAWCUTS NECESSARY FOR THE CONSTRUCTION OF BUTT JOINTS SHALL BE TO THE FULL DEPTH OF THE ITEM TO REMOVED OR CONSTRUCTED (MINIMUM DEPTH 1-1/2"), AND SHALL BE INCLUDED IN THE COST OF THAT ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11. THE FOLLOWING APPLICATION RATES WERE USED IN THE DEVELOPMENT OF PLAN QUANTITIES:

HMA SURFACE COURSE	112 LBS / SQ YD / IN
BIT. MATERIALS (PRIME COAT)	0.25 LBS / SQ FT
COARSE AGGREGATE	2.05 TON / CU YD
RIPRAP	1.50 TON / CU YD

UTILITIES

NAME	CONTACT	PHONE OFFICE	PHONE CELLULAR	EMAIL	TYPE
AMEREN ILLINOIS (SOUTH)	NATHAN HILL	618-301-5305		NHILL2@AMEREN.COM	ELECTRIC / GAS
COMPUTER TECHNIQUES, LLC	BRAD WILLIAMS		217-565-3959		INTERNET
IL CONSOLIDATED TELEPHONE	WES CHAMBERS	217-235-3355		WES.CHAMBERS@CONSOLIDATED.COM	TELEPHONE
TAYLORVILLE, CITY OF	MARLIN BRUNE	217-287-1441	217-820-7639	WATERSUPT@CTITECH.COM	WATER / SEWER
BUCKEYE PARTNERS	TRACI MCCLERNON	610-357-3294		TMCCLERNON@BUCKEYE.COM	PETROLEUM PIPELINE

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KUHN & TRELLO CONSULTING ENGINEERS, A Limited Liability Company
109 N. 7th Street, 1st Floor, Springfield, IL 62701, PHONE: 217-529-9661
Professional Design Firm No. 184-006326

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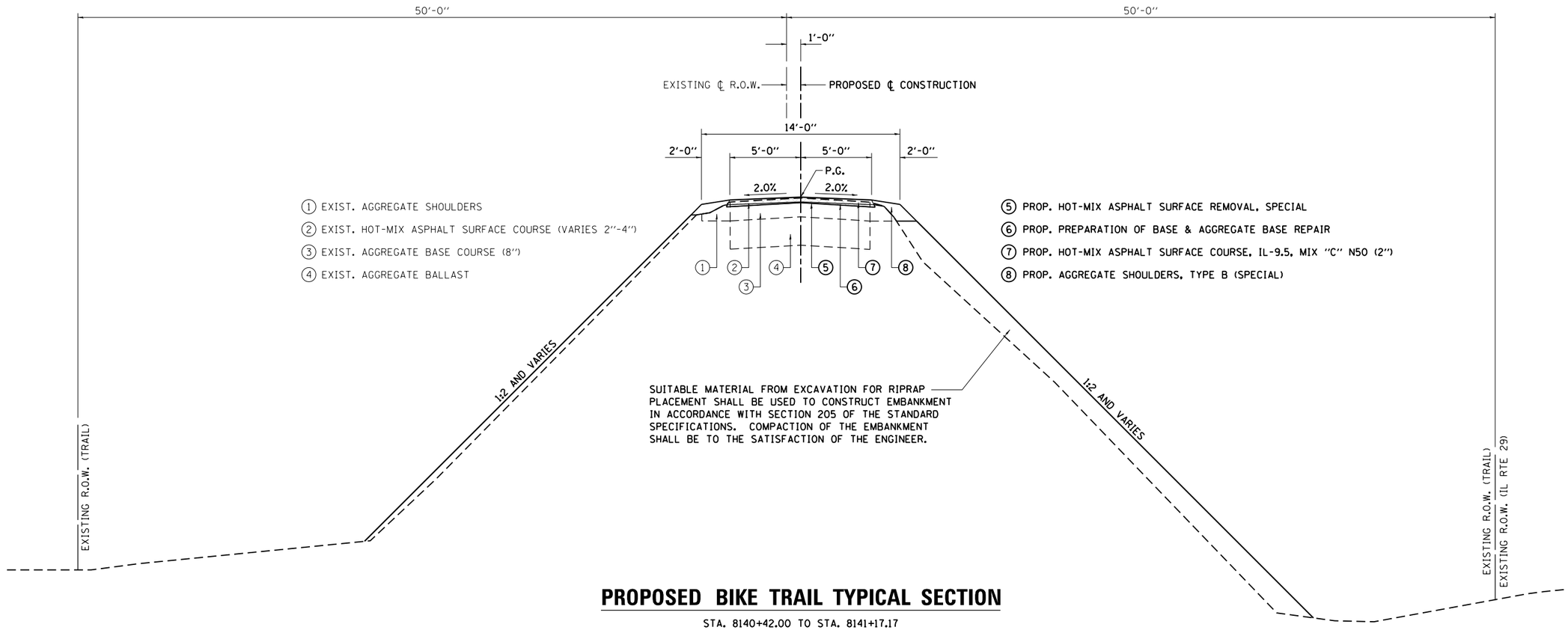
CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

SUMMARY OF QUANTITIES, GENERAL NOTES AND UTILITIES

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

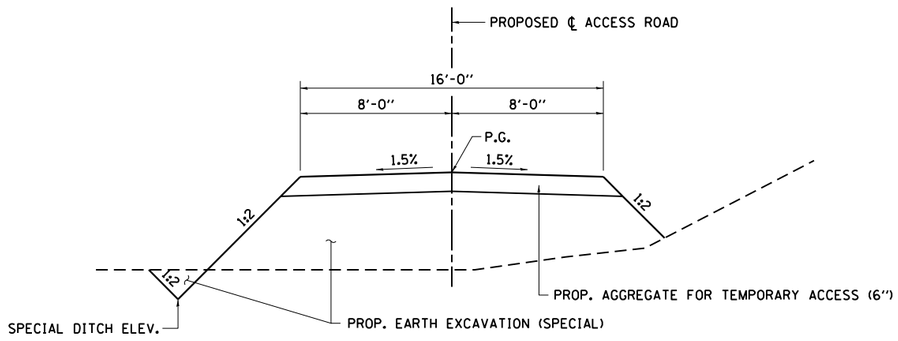
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	2
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			



PROPOSED BIKE TRAIL TYPICAL SECTION

STA. 8140+42.00 TO STA. 8141+17.17
STA. 8143+18.83 TO STA. 8143+94.00

FOR INFORMATION ONLY



PROPOSED TEMPORARY ACCESS ROAD TYPICAL SECTION

STA. 10+00.00 TO STA. 12+74.57

THIS TYPICAL SECTION IS FOR INFORMATION ONLY. IT SHOWS AN EXAMPLE CROSS SECTION FOR A TEMPORARY ACCESS ROAD. THE CONTRACTOR SHALL DESIGN AND SUBMIT HIS/HER ACTUAL CONSTRUCTION PLAN TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE ENGINEER FOR APPROVAL, PRIOR TO CONSTRUCTION. SEE SPECIAL PROVISIONS FOR MORE INFORMATION.

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KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-679-0044
Professional Design Firm No. 184.006516

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

TYPICAL SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	3
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

Beginning chain CLCONST description

Point X201 N 1,047,274.5720 E 2,552,240.7684 Sta 8115+00.00

Course from X201 to PC CLCONST-1 N 42° 19′ 31.40″ W Dist 2,910.5897

Curve Data					
Curve CLCONST-1					
P.I. Station		8144+87.41	N	1,049,483.2628	E 2,550,229.2247
Delta	=	3° 26′ 42.39″ (LT)			
Degree	=	2° 14′ 34.70″			
Tangent	=	76.8210			
Length	=	153.5958			
Radius	=	2,554.4591			
External	=	1.1549			
Long Chord	=	153.5727			
Mid. Ord.	=	1.1543			
P.C. Station		8144+10.59	N	1,049,426.4665	E 2,550,280.9514
P.T. Station		8145+64.19	N	1,049,536.8481	E 2,550,174.1784
C.C.			N	1,047,706.4465	E 2,548,392.3560
Back	= N	42° 19′ 31.40″ W			
Ahead	= N	45° 46′ 13.79″ W			
Chord Bear	= N	44° 02′ 52.60″ W			

Chain CLCONST description (continued)

Curve Data					
Curve CLCONST-2					
P.I. Station		8148+72.40	N	1,049,751.8368	E 2,549,953.3284
Delta	=	23° 45′ 39.11″ (LT)			
Degree	=	3° 54′ 39.01″			
Tangent	=	308.2124			
Length	=	607.5650			
Radius	=	1,465.0522			
External	=	32.0693			
Long Chord	=	603.2206			
Mid. Ord.	=	31.3824			
P.C. Station		8145+64.19	N	1,049,536.8481	E 2,550,174.1784
P.T. Station		8151+71.75	N	1,049,859.6170	E 2,549,664.5753
C.C.			N	1,048,487.0627	E 2,549,152.2545
Back	= N	45° 46′ 13.79″ W			
Ahead	= N	69° 31′ 52.91″ W			
Chord Bear	= N	57° 39′ 03.35″ W			

Ending chain CLCONST description

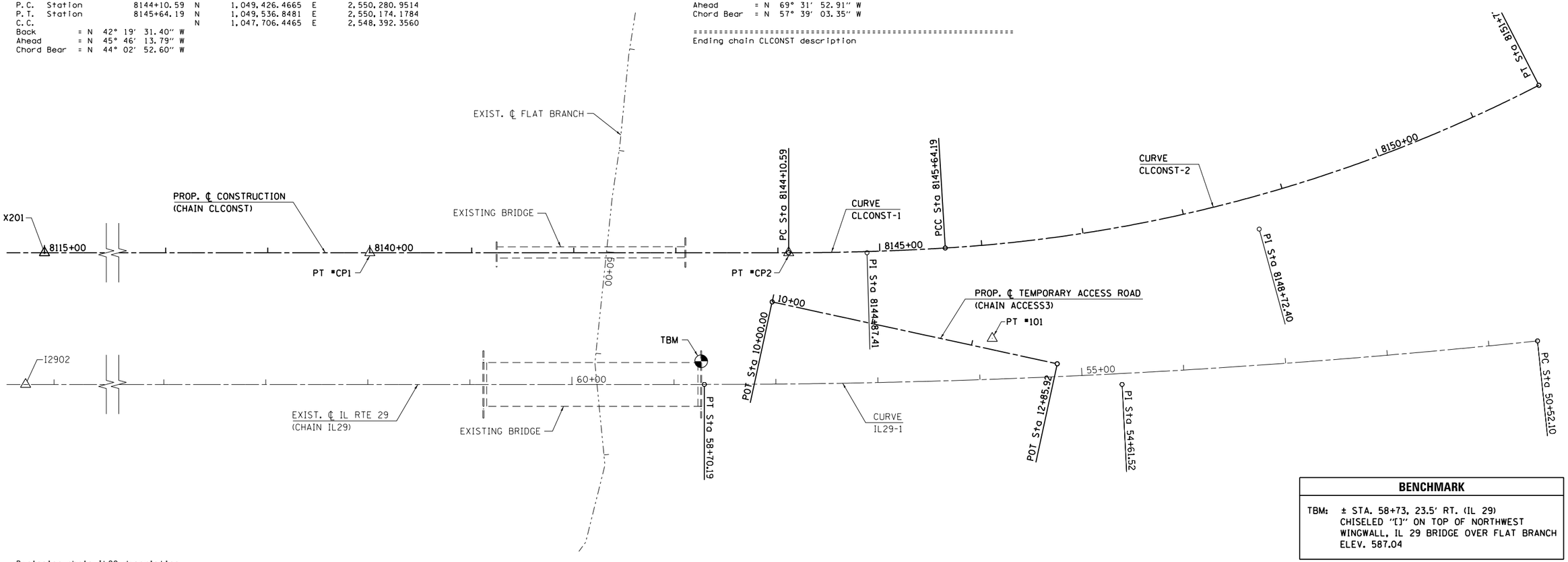
Beginning chain ACCESS3 description

Point X931 N 1,049,446.9547 E 2,550,327.4576 Sta 10+00.00

Course from X931 to X932 N 30° 05′ 13.83″ W Dist 285.9240

Point X932 N 1,049,694.3543 E 2,550,184.1190 Sta 12+85.92

Ending chain ACCESS3 description



Beginning chain IL29 description

Curve Data					
Curve IL29-1					
P.I. Station		54+61.52	N	1,049,754.9281	E 2,550,156.2898
Delta	=	5° 58′ 39.22″ (RT)			
Degree	=	0° 43′ 50.40″			
Tangent	=	409.4195			
Length	=	818.0961			
Radius	=	7,841.5670			
External	=	10.6809			
Long Chord	=	817.7251			
Mid. Ord.	=	10.6664			
P.C. Station		50+52.10	N	1,050,027.2706	E 2,549,850.5875
P.T. Station		58+70.19	N	1,049,452.2309	E 2,550,431.9684
C.C.			N	1,044,172.1886	E 2,544,634.4407
Back	= S	48° 18′ 10.62″ E			
Ahead	= S	42° 19′ 31.40″ E			
Chord Bear	= S	45° 18′ 51.01″ E			

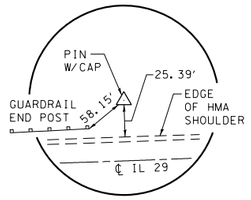
Course from PT IL29-1 to I2902 S 42° 19′ 31.40″ E Dist 2,357.7001

Point I2902 N 1,047,709.1059 E 2,552,019.5026 Sta 82+27.89

Ending chain IL29 description

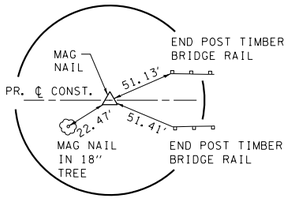
BENCHMARK

TBM: ± STA. 58+73, 23.5′ RT. (IL 29)
CHISELED "[]" ON TOP OF NORTHWEST WINGWALL, IL 29 BRIDGE OVER FLAT BRANCH
ELEV. 587.04



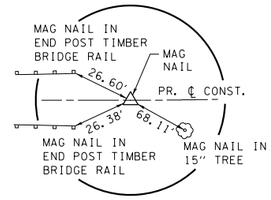
POINT #101
PIN W/CAP

STA. 55+86.47 (IL 29)
40.01′ RT
N 1,049,630.5010
E 2,550,208.5840



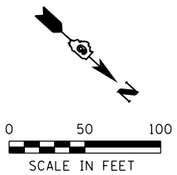
POINT #CP1
MAG NAIL

POT STA. 8140+00.00
N 1,049,122.9040
E 2,550,557.4179



POINT #CP2
MAG NAIL

PC STA. 8144+10.59,
N 1,049,426.4665
E 2,550,280.9514



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KUHN & TRELLO CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-679-0044
Professional Design Firm No. 184-006516

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1"=50′ | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	4
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

PHILLIP & HENRYETTA TULLIS

405 SQ YD STONE RIPRAP, CLASS A4 & FILTER FABRIC

EXIST. R.O.W.

92 SQ YD HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

STA. 8140+42.00 BEGIN IMPROVEMENTS MATCH EXISTING

STA. 8141+17.17 BK. SOUTH ABUT.

STA. 8142+18.00 PROPOSED 200' X 10' PEDESTRIAN TRUSS SUPERSTRUCTURE

℄ FLAT BRANCH

CONST. LIMITS

STA. 8142+17.73 EXISTING STRUCTURE TO BE REMOVED

393 SQ YD STONE RIPRAP, CLASS A4 & FILTER FABRIC

TOP OF BANK

THADDEUS & CONSUELA FRANCE

75 FOOT FENCE REMOVAL (EXISTING TIMBER BRIDGE APPROACH RAILING) INSTALL 75 FOOT TIMBER BRIDGE APPROACH RAILING (TYP. EACH CORNER)

STA. 8143+18.83 BK. NORTH ABUT.

STA. 8143+94.00 END IMPROVEMENTS MATCH EXISTING

CITY OF PANA

PROP. ℄ CONSTRUCTION

8140+00 HMA 8141 8142 8143 8144 HMA 8145+00

10' 2' AGG.

STA. 8141+05.17 TO STA. 8141+17.17
4.7 CU YD CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

EXIST. R.O.W.

CONST. LIMITS

1 L SUM DEBRIS REMOVAL (EXISTING LOG JAM) (VOLUME APPROX. 150 CU YD SEE SPECIAL PROVISIONS FOR MORE INFORMATION.)

93 SQ YD HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

STA. 8143+18.83 TO STA. 8143+30.83
4.7 CU YD CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

PC Sta 8144+10.59

PI Sta 8144+87.41

51' 49' 100'

LEGEND

⊗ TREE REMOVAL, UNIT DIA.

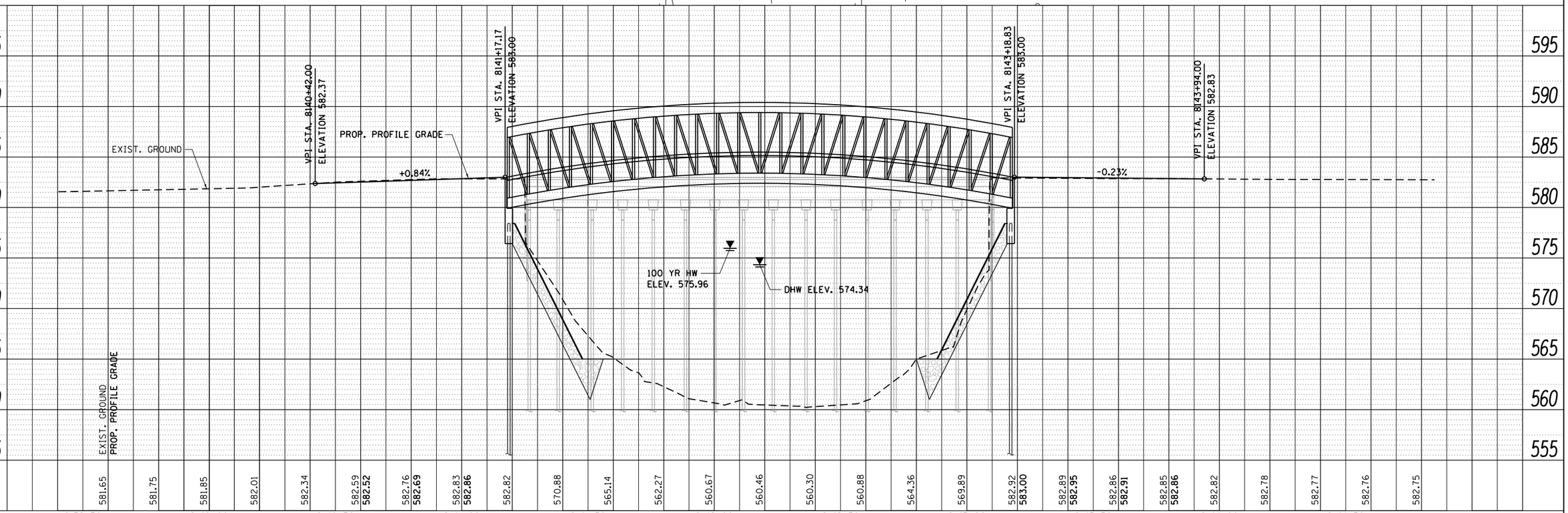
HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

DEBRIS REMOVAL

IL RTE 29

STATE OF ILLINOIS
DEPT. OF TRANSPORTATION

0 20 40
SCALE IN FEET



KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 3rd Floor Springfield, IL 62701 Phone: 217-679-0044 Professional Design Firm No. 184-006516	USER NAME = msutheard	DESIGNED - MDS	REVISED -
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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

PLAN AND PROFILE
LINCOLN PRAIRIE TRAIL

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	5
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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℄ FLAT BRANCH

STA. 8143+18.83
BK. NORTH ABUT.

STA. 8143+94.00
END IMPROVEMENTS
MATCH EXISTING

8141 8142 8143 8144 HMA 8145+00 8146

EXIST. ℄ CONSTRUCTION (TRAIL)

CITY OF PANA

0 20 40
SCALE IN FEET

0.04 ACRE
SELECTIVE CLEARING

STA. 11+57.1, 19.4' LT. (ACCESS ROAD) =
STA. 56+44.2, 63.2' RT. (IL RTE 29)
EXISTING MANHOLE

EXIST. R.O.W.

ROY L. SHOEMAKER

EXIST. R.O.W.

STA. 12+74.57, ℄ ACCESS ROAD =
STA. 55+34.63, 15.45' RT ℄ IL 29

EXIST. R.O.W.

STA. 12+00.0, 12.0' LT
ACCESS ROAD =
STA. 55+16.0, 23.0' RT
IL 29

EXISTING LOG JAM
TO BE REMOVED

STA. 10+00.00, ℄ ACCESS ROAD =
STA. 58+03.03, 80.54' RT ℄ IL 29

10+00

16'

200 TON AGGREGATE FOR
TEMPORARY ACCESS

11

TEMPORARY ACCESS ROAD
FROM IL RTE 29

12

STA. 12+00
8' LT

ACCESS ROAD
CONST. LIMITS

STA. 11+63.0, 18.0' RT
ACCESS ROAD =
STA. 56+47.5, 25.5' RT
IL 29

10' R

8'

TOP OF BANK

15'

TOP OF BANK

STATE OF ILLINOIS
DEPT. OF TRANSPORTATION

STA. 60+91
IL 29

EXIST.
ABUTMENT
RIPRAP

EXIST. ABUTMENT
RIPRAP

EXIST. EDGE
OF PAVEMENT

IL RTE 29

EXIST. END
OF GUARDRAIL

EXIST. AGG
SHOULDER

EXIST. HMA
SHOULDER

STA. 54+87.5
IL 29

60+00 59 58 57 56 55+00

EXISTING AGGREGATE SHOULDER SHALL BE
RECONSTRUCTED TO SAME AGGREGATE THICKNESS
AS TEMP. ACCESS ROAD. COST INCLUDED IN THE
COST OF THE TEMP. ACCESS ROAD.

595 590 585 580 575 570 565 560 555

VPI STA. 8143+18.83
ELEVATION 585.00

PROP. PROFILE GRADE

-0.23%

VPI STA. 8143+94.00
ELEVATION 582.83

EXIST. GROUND

PROP. PROFILE GRADE
ACCESS ROAD

+5.00%

VPI STA. 11+75.00
ELEVATION 584.85

+1.00%

VPI STA. 12+50.00
ELEV. 585.60

STA. 12+74.57, ℄ ACCESS ROAD =
STA. 55+34.63, 15.45' RT ℄ IL 29
EXIST. EDGE OF HMA SHOULDER

100 YR HW
ELEV. 575.96

DHW ELEV. 574.34

+25.00 EL. 582.35

SD LT @ +0.60% SLOPE

+25.00 EL. 585.35

STA. 11+00
BEGIN SD LT
ELEV. 578.85

100.00' V.C.

STA. 12+42.82, ℄ ACCESS ROAD
EXIST. EDGE OF AGG. SHOULDER

STA. 12+25
END SD LT
ELEV. 579.60

VPI STA. 10+00.00
ELEV. 576.10

300 CU YD
EARTH EXCAVATION (SPECIAL)

EXIST. GROUND
PROP. PROFILE GRADE

570.88 565.14 562.27 560.67 560.46 560.30 560.88 564.36 569.89 582.32 583.00 582.89 582.95 582.86 582.91 582.85 582.86 582.82 582.78 582.77 582.76 582.75

8141+50 8142+00 8142+50 8143+00 8143+50 8144+00 8144+50

THIS SHEET FOR INFORMATION ONLY

THE INFORMATION ON THIS SHEET IS FOR INFORMATION ONLY.
IT SHOWS AN EXAMPLE PLAN AND PROFILE FOR A TEMPORARY
ACCESS ROAD. THE CONTRACTOR SHALL DESIGN AND SUBMIT
HIS/HER ACTUAL CONSTRUCTION PLAN TO THE ILLINOIS
DEPARTMENT OF TRANSPORTATION AND THE ENGINEER FOR
APPROVAL, PRIOR TO CONSTRUCTION. SEE SPECIAL PROVISIONS
FOR MORE INFORMATION.

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A Limited Liability Company
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Springfield, IL 62701
Phone: 217-679-0044
Professional Design Firm No. 184-006516

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PLOT DATE = 6/22/2023	DATE - 6/13/23	REVISED -

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

PLAN AND PROFILE
TEMPORARY ACCESS ROAD – FOR INFORMATION ONLY

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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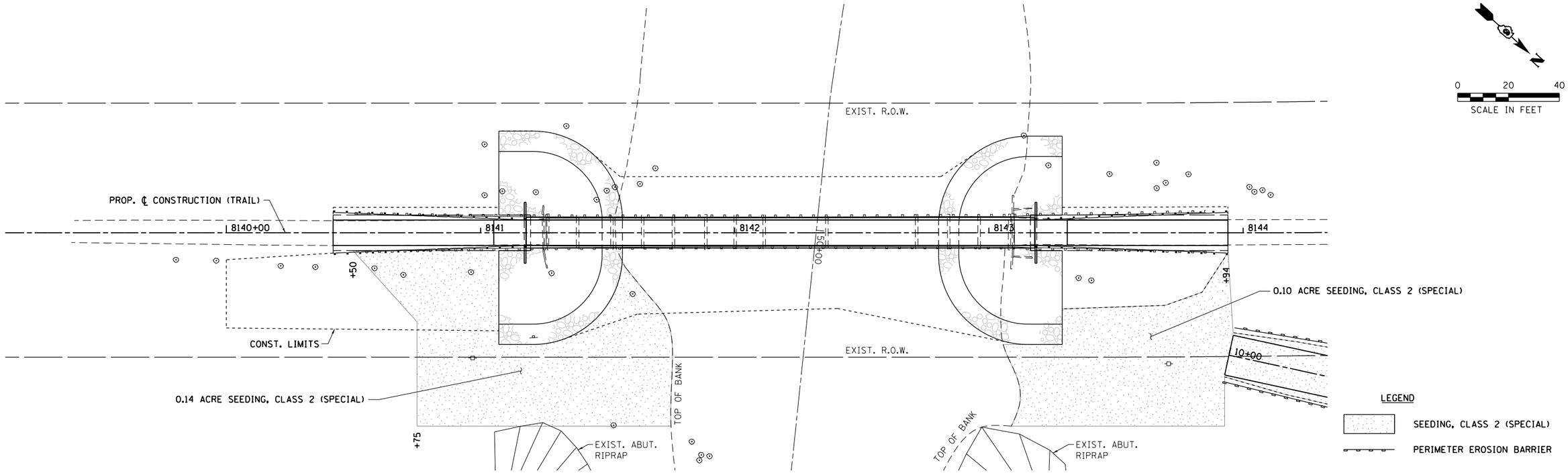
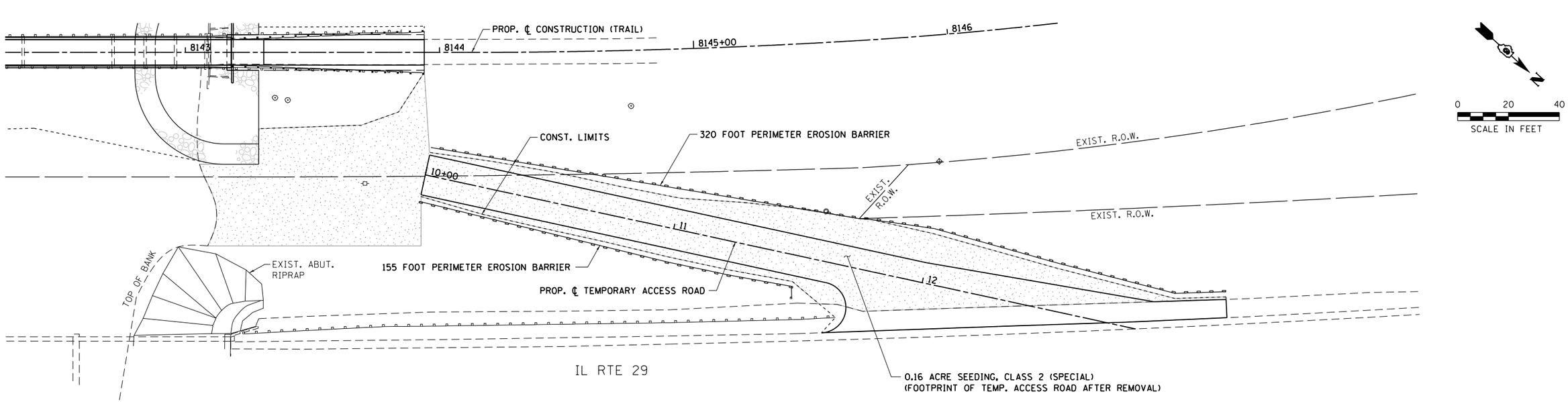
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			





NOTES: TEMPORARY EROSION CONTROL SEEDING TO BE INSTALLED AND MAINTAINED ON TEMPORARY ACCESS ROAD UNTIL SEEDING, CLASS 2 (SPECIAL) HAS BEEN INSTALLED.

TEMPORARY ACCESS ROAD EXAMPLE LAYOUT SHOWN. ADJUST SEEDING AND EROSION CONTROL ITEMS FOR ACTUAL TEMPORARY ACCESS ROAD CONSTRUCTION.

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PLOT DATE = 6/22/2023	DATE - 6/13/23	REVISED -	

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

SEEDING AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	7
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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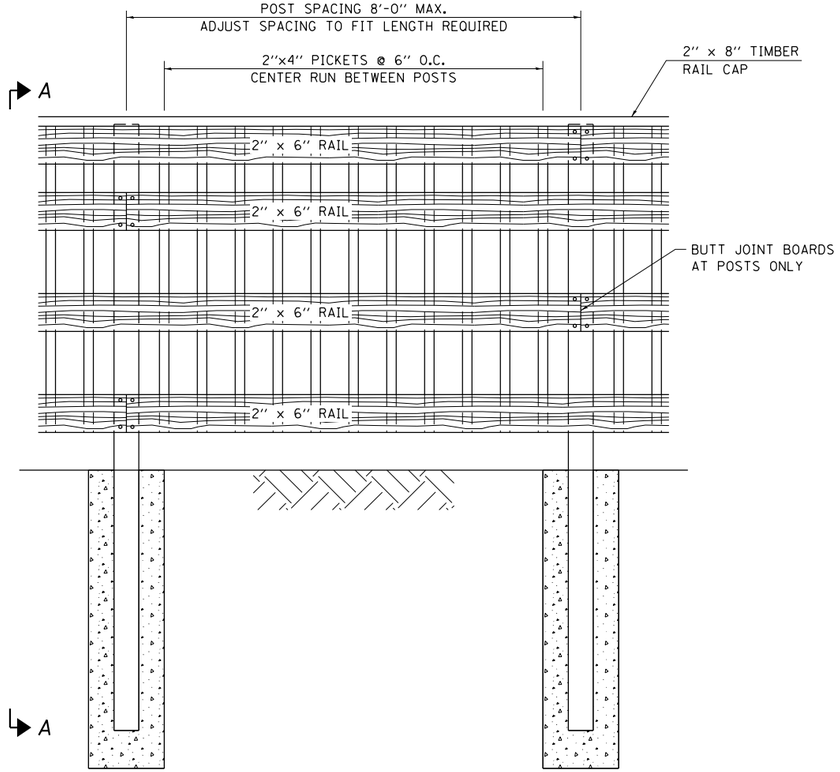
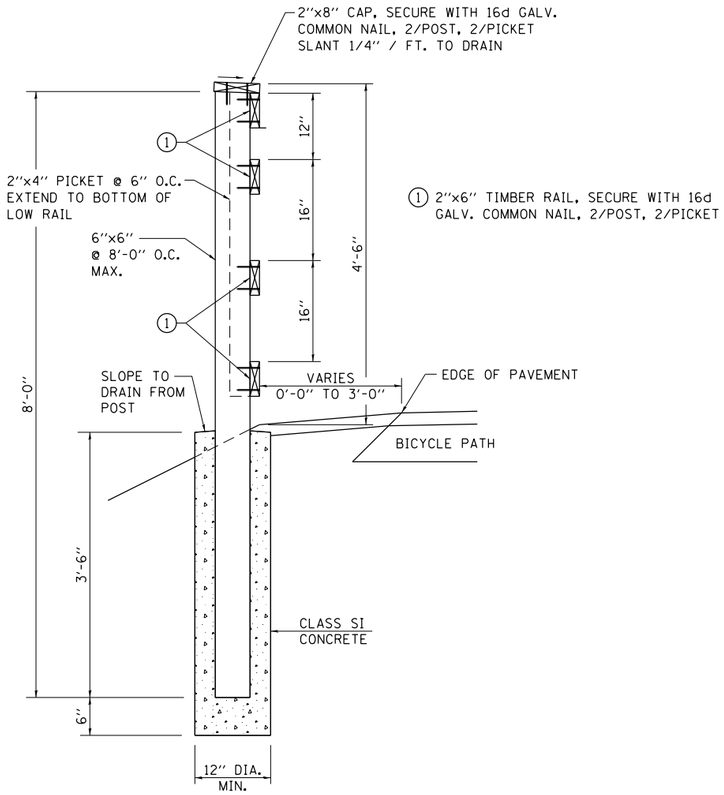
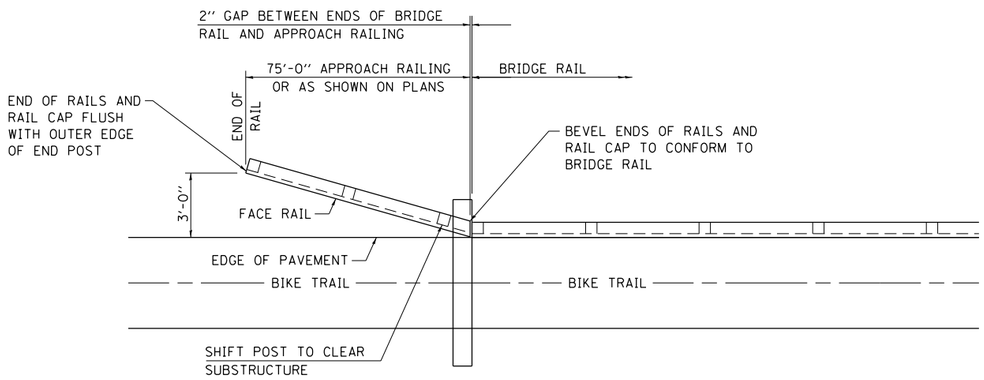


ELEVATION



SECTION A-A



PLAN VIEW

NOTES:

1. ALL TIMBER MATERIALS SHALL BE TREATED TO CONFORM TO THE REQUIREMENTS OF SECTION 507 OF THE STANDARD SPECIFICATIONS.
2. ALL NAILS AND OTHER FASTENERS SHALL BE HOT-DIPPED GALVANIZED AND CONFORM TO THE REQUIREMENTS OF SECTION 507 OF THE STANDARD SPECIFICATIONS.
3. STAGGER ALTERNATING BUTT ENDS ON FACE RAIL AND TOP RAIL CAP. CENTER ALL BUTT END JOINTS ON POSTS.

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

TIMBER BRIDGE APPROACH RAILING DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	8
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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TBM: ±Sta. 58+73, 23.5' Rt. (IL 29)
Chiseled "[]" on top of northwest wingwall, IL 29 Bridge over Flat Branch. Elev. 587.04

Existing Structure: The existing structure (no structure number) is a 15 span timber trestle railroad bridge which was rehabilitated in the 1990's with new timber ties, deck planks and railings during bike trail construction. The structure is 182'-8" face to face of abutment backwalls with a width of 9'-0" face to face of deck curbs.

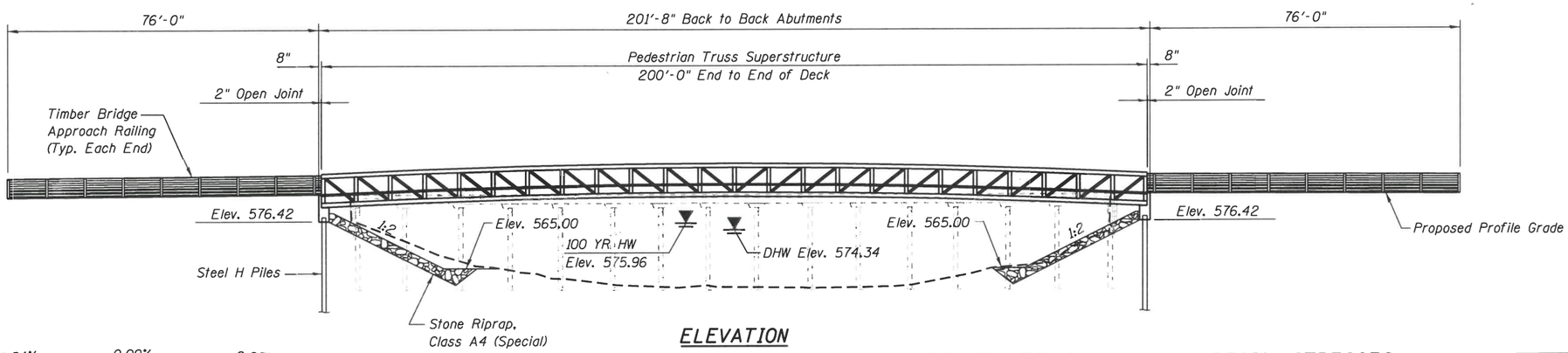
The existing structure will be completely removed and replaced with a single span Pedestrian Truss Superstructure. No salvage.

INDEX OF SHEETS

WATERWAY INFORMATION

Drainage Area = 279 Sq Mi Low Grade Elev. 581.87 @ Sta. 8139+28.20

Flood	Freq. Yr.	Q C.F.S.	Opening Ft² Exist.	Opening Ft² Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	-	-	-	-	-	-	-	-
Design	30	9,200	3,019	1,880	572.42	8.16	1.92	580.58	574.34
Base	100	11,900	3,058	2,171	573.46	8.56	2.50	582.02	575.96



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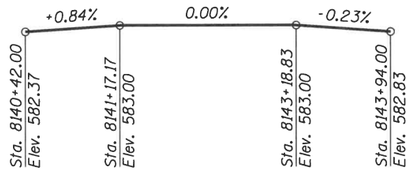


PROFILE GRADE
(along ℄ construction)

DESIGN SPECIFICATIONS

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges (Superstructure)

2017 AASHTO LRFD Bridge Design Specification, 8th Edition (Abutments)

LOADING H-10

Vehicle Load: 20,000 lb
Pedestrian Load: 90 psf uniform load

DESIGN STRESSES

FIELD UNITS

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

SEISMIC DATA

Seismic Performance Zone (SPZ) =
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.121g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.253g
Soil Site Class = C

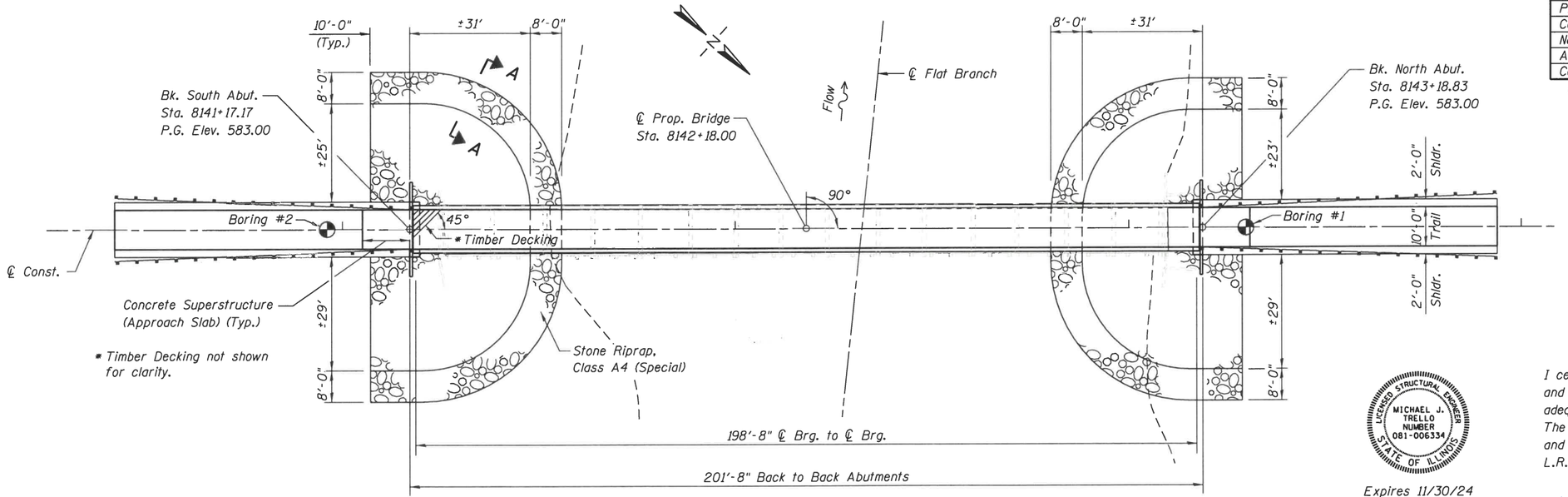
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu. Yd.	15.2
Stone Riprap, Class A4	Sq. Yd.	798
Filter Fabric	Sq. Yd.	798
* Pedestrian Truss Superstructure	Sq. Ft.	2,000
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	95
Reinforcement Bars (Epoxy Coated)	Pound	3760
Furnishing Steel Piles HP 12 x 53	Foot	120
Driving Piles	Foot	120
Test Pile Steel HP 12 x 53	Each	2
Granular Backfill For Structures	Cu. Yd.	43
Protective Coat	Sq. Yd.	28.2
Concrete Superstructure (Approach Slab)	Cu. Yd.	9.4
Name Plates	Each	1
Anchor Bolts, 1"	Each	8
Concrete Sealer	Sq. Ft.	336

* See Special Provisions

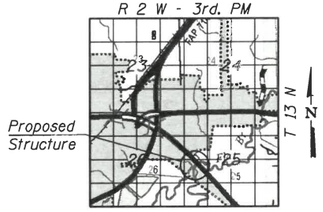
FLAT BRANCH
BUILT 20xx BY CITIES OF
PANA & TAYLORVILLE
SEC. 16-00054-00-BR
LINCOLN PRAIRIE TRAIL
STA. 8142+18.00
STR. NO. 011-P002 LOADING H10

NAME PLATE
See Std. 515001



PLAN

* Timber Decking not shown for clarity.



LOCATION SKETCH

MICHAEL J. TRELLO
LICENSED STRUCTURAL ENGINEER
NUMBER 081-006334
STATE OF ILLINOIS

Expires 11/30/24
(Applies to abutments only)

I certify that to the best of my knowledge, information and belief, this bridge foundation 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 A.A.S.H.T.O. L.R.F.D. Bridge Design Specifications.

Signed

9/27/2023
Dated

KUHN & TRELLO
CONSULTING ENGINEERS
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Springfield, IL 62701
Phone: 217-679-0044
Professional Design Firm No. 184-006516

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

GENERAL PLAN AND ELEVATION

SHEET 1 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	9
		CONTRACT NO. 93750		
	ILLINOIS	FED. AID PROJECT		

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GENERAL NOTES

1. The Contractor shall field verify all conditions at the site prior to the start of construction or fabrication of proposed bridge.
2. No field welding is permitted except as specified in the contract documents.
3. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
4. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Reinforcement bars (E) shall be epoxy coated.
6. Unless otherwise noted, exposed concrete edges shall have a $\frac{3}{4}$" chamfer.
7. Concrete sealer shall be applied to the designated areas of the abutments.
8. Timber deck planks shall be placed with the grain such that cupping will not cause water to sit on a plank.
9. All structural timber shall be treated to conform to Section 507 of the Standard Specifications.
10. All hardware required for timber construction, including nuts, washers, lag screws, threaded rods and miscellaneous fasteners shall be stainless steel or hot-dipped galvanized and shall conform to Section 507 of the Standard Specifications unless otherwise noted.
11. All lumber dimensions given are nominal dimensions. The minimum surfaced areas of timbers shall be as follows:

NOMINAL SIZE	DRESSED
2 x 6	$1\frac{1}{2}$" x $5\frac{1}{2}$"
2 x 8	$1\frac{1}{2}$" x $7\frac{1}{4}$"
2 x 12	$1\frac{1}{2}$" x $11\frac{1}{4}$"
3 x 12	$2\frac{1}{2}$" x $11\frac{1}{4}$"
6 x 6	$5\frac{1}{2}$" x $5\frac{1}{2}$"
8 x 8	$7\frac{1}{2}$" x $7\frac{1}{2}$"

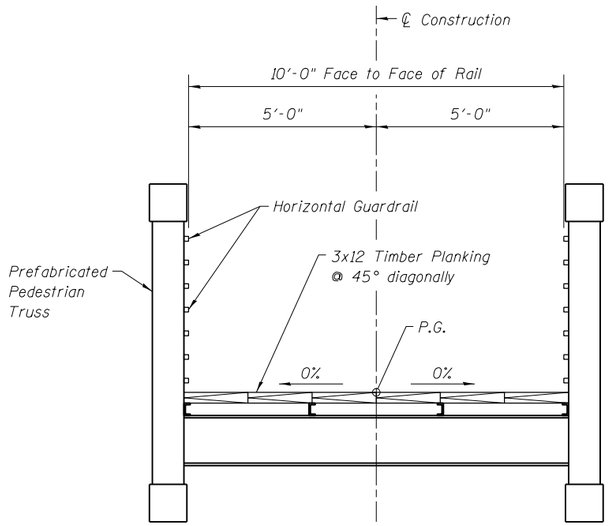
BRIDGE SPAN REACTIONS

COMBINE REACTION AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

\+ DOWNWARD LOAD
\- UPWARD LOAD

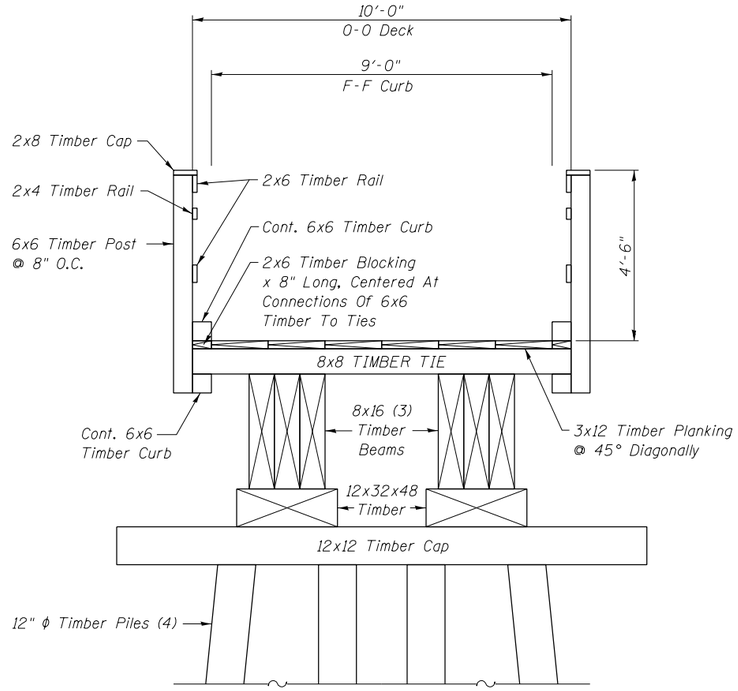
LOAD	P lbs	H lbs	L lbs
DEAD	36.000	-	-
UNIFORM LIVE	45.000	-	-
VEHICLE	13,800	-	-
WIND	±17.000	27,000	-
WINDWARD	-23,100	-	-
LEEWARD	6.000	-	-
THERMAL	-	-	7,000

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE SPAN)
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)



SECTION THRU PROPOSED PREFABRICATED BRIDGE SUPERSTRUCTURE

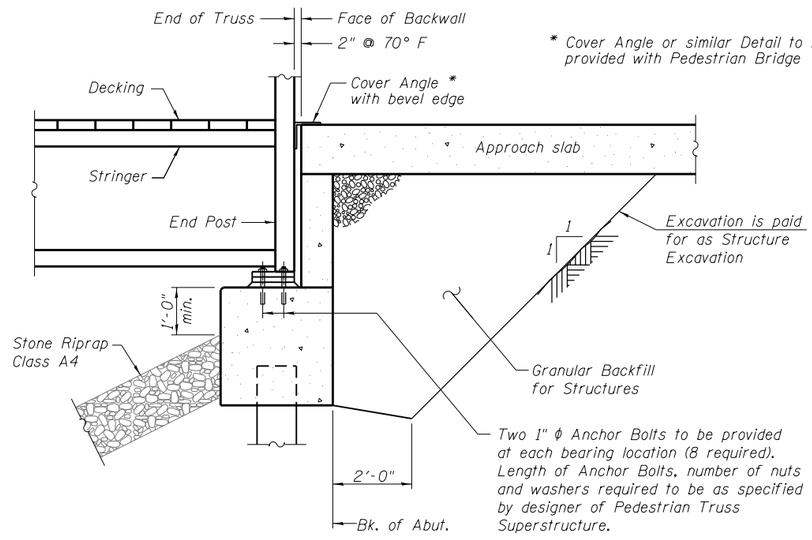
(SHOWN FOR DIMENSIONS ONLY. SHAPE MAY VARY.)



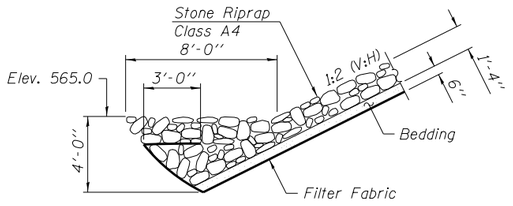
Typical Section At Each Of 14 Piers.
Piers At ± 12' Centers.

SECTION THRU EXISTING TIMBER STRUCTURE

(FOR INFORMATION ONLY)



SECTION THRU ABUTMENT



SEC. A-A
STONE RIPRAP ANCHOR DETAIL

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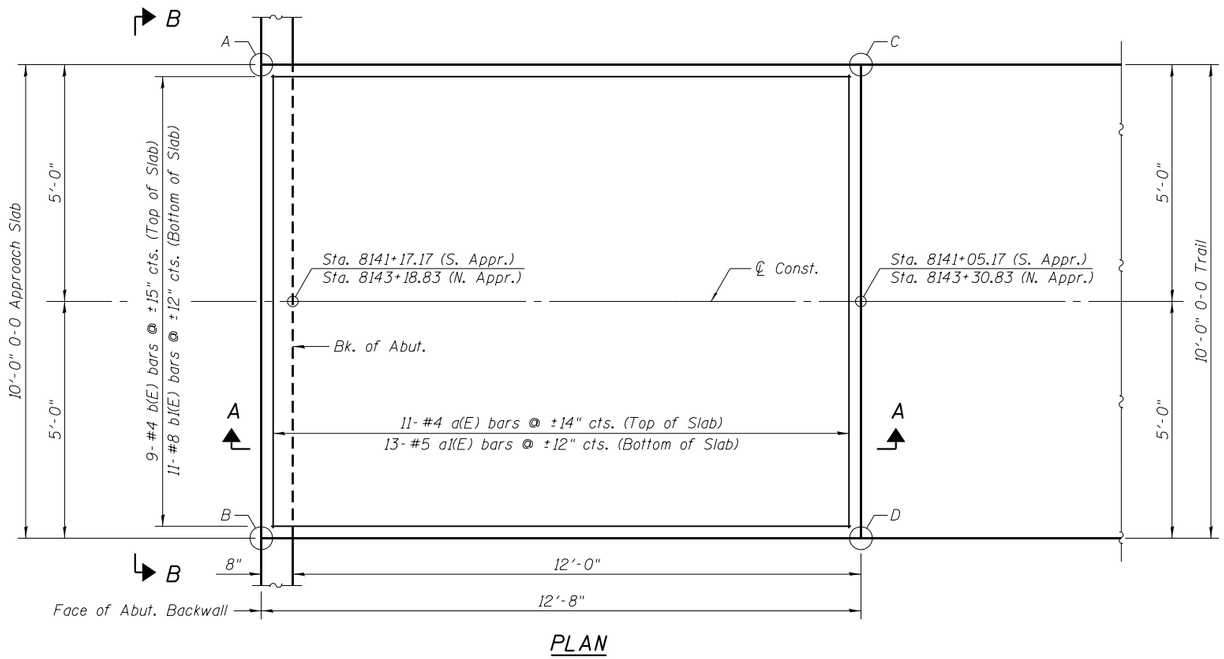
CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

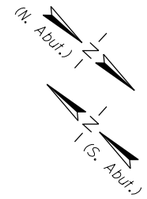
GENERAL NOTES AND CROSS SECTION DETAILS

SHEET 2 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	10
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			



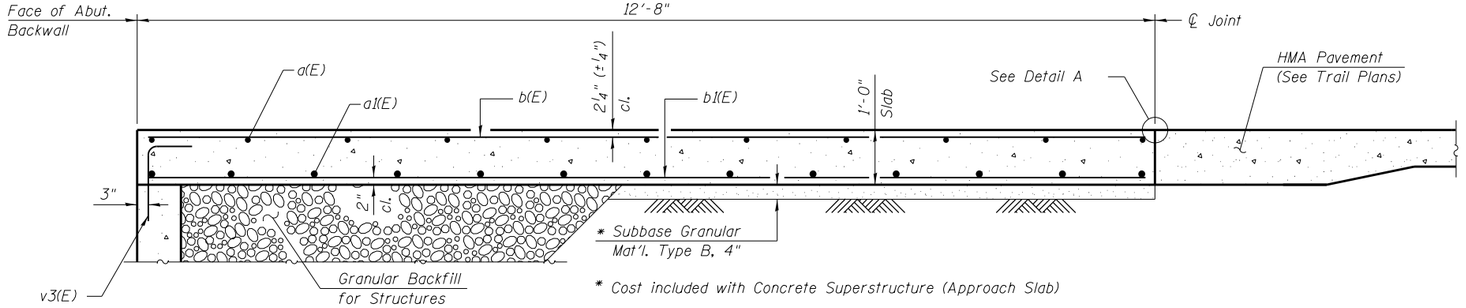
PLAN



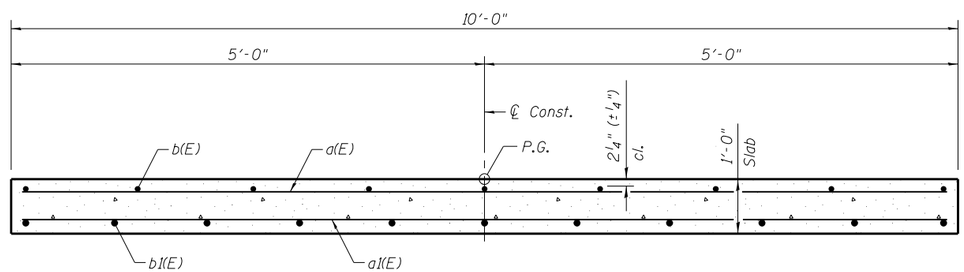
TOP OF APPROACH ELEVATIONS

Point	South Approach	North Approach
A	583.00	583.00
B	583.00	583.00
C	582.90	582.97
D	582.90	582.97

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 7.



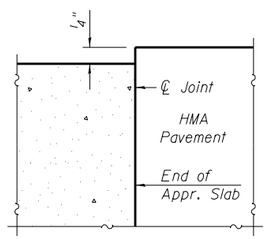
SECTION A-A



SECTION B-B

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#4	9'-8"	——
a1(E)	26	#5	9'-8"	——
b(E)	18	#4	12'-4"	——
b1(E)	22	#8	12'-4"	——
Concrete Superstructure (Approach Slab)			Cu. Yd.	9.4
Protective Coat			Sq. Yd.	28.2
Reinforcement Bars, Epoxy Coated			Pound	1,280



FLEXIBLE PAVEMENT

DETAIL A

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KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 3rd Floor
Springfield, IL 62701
Phone: 217-679-0044
Professional Design Firm No. 184.006516

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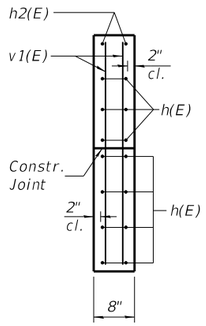
CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

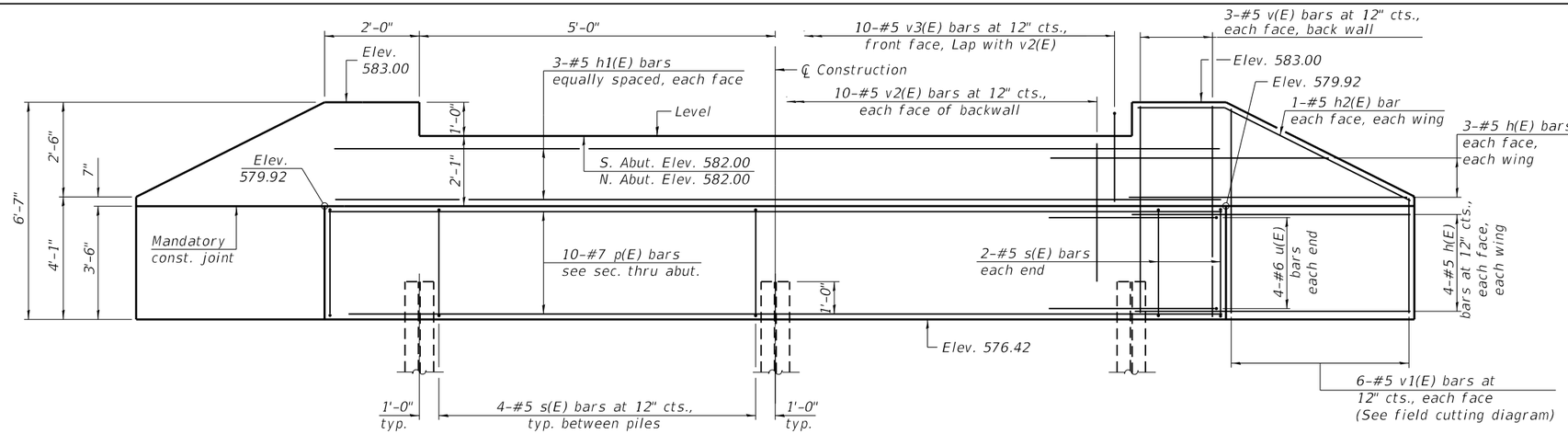
BRIDGE APPROACH SLAB DETAILS

SHEET 3 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	11
		CONTRACT NO. 93750		
	ILLINOIS	FED. AID PROJECT		



SECTION B-B



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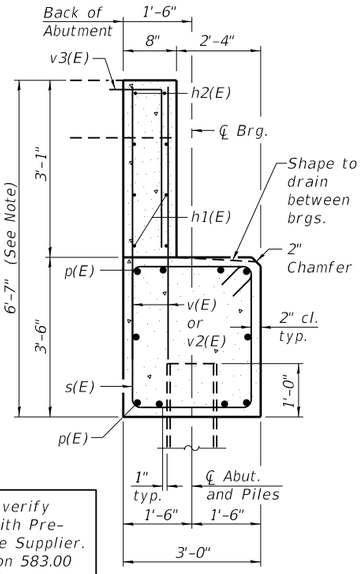
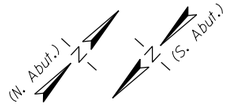
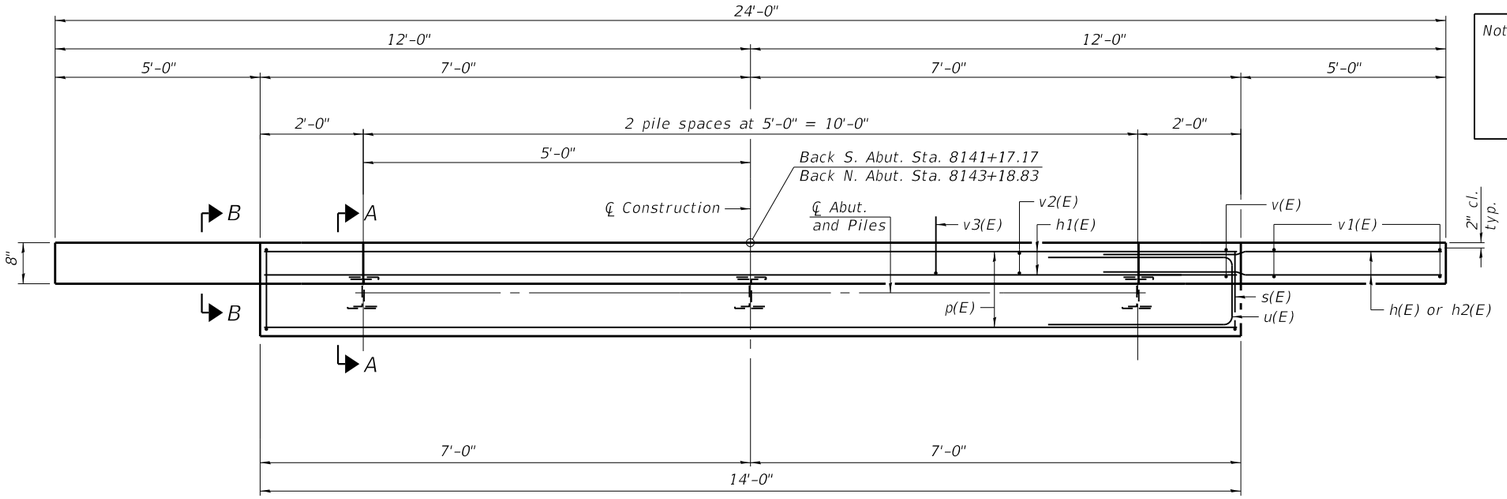


SECTION A-A





PLAN

Note: Contractor shall verify this dimension with Pre-fabricated Bridge Supplier. (Hold PG elevation 583.00 and adjust bearing seat elevation.)

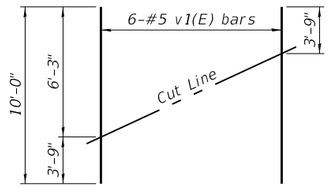
BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	56	#5	7'-4"	
h1(E)	12	#5	13'-8"	
h2(E)	8	#5	7'-2"	
p(E)	20	#7	13'-8"	
s(E)	24	#5	12'-7"	
u(E)	16	#6	11'-4"	
v(E)	24	#5	6'-3"	
v1(E)	24	#5	10'-0"	
v2(E)	40	#5	4'-2"	
v3(E)	20	#5	4'-6"	
Structure Excavation		Cu. Yd.	95	
Concrete Structures		Cu. Yd.	15.2	
Reinforcement Bars, Epoxy Coated		Pound	2480	
Furnishing Steel H Piles, 12x53		Foot	120	
Driving Piles		Foot	120	
Test Pile, HP 12x53		Each	2	
Concrete Sealer		Sq. Ft.	336	

PILE DATA

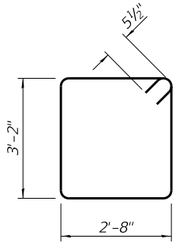
Type: Steel H, 12x53
Nominal Required Bearing: 190 kip
Factored Resistance Available: 104 kip
Est. Length: 24 ft N. Abut., 36 ft S. Abut.
No. Production Piles: 4
No. Test Piles: 2

One test pile to be driven in a permanent location at each Abutment, as directed by the Engineer, before ordering the remainder of the piles. The test pile shall be driven to 110 percent of the Nominal Required. Bearing indicated in the pile data information.

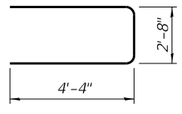


FIELD CUTTING DIAGRAM

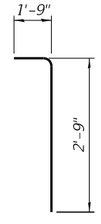
Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite wing.



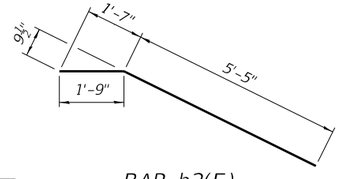
BAR s(E)



BARS u(E)



BAR v3(E)



BAR h2(E)

Notes:
For details of piles, see sheet 5 of 7.
Cast backwall and tops of wingwalls after Pedestrian Truss Superstructure has been erected.
Concrete Sealer shall be applied to the bearing seat and the front face of the backwall, wingwall and pile cap.

AD-SB-0 6-15-2019

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

ABUTMENTS

SHEET 4 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	12
		CONTRACT NO. 93750		
		ILLINOIS	FED. AID PROJECT	

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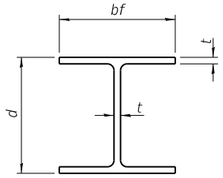
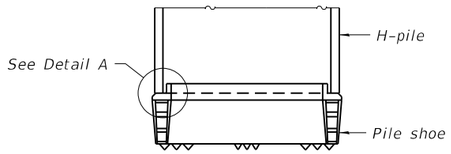


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	13/16"	30"
x102	14"	14¾"	1 1/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1 1/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



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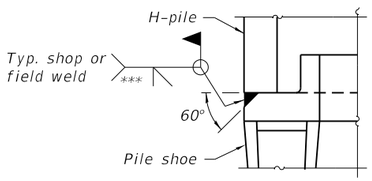
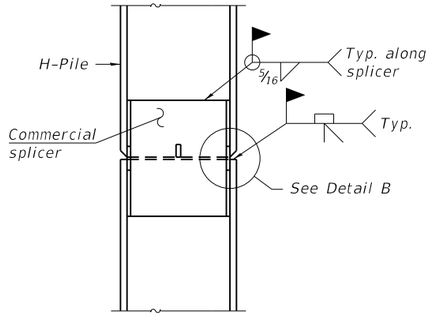


DETAIL A

SHOE ATTACHMENT

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



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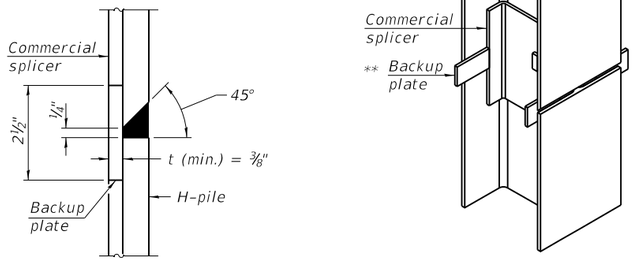
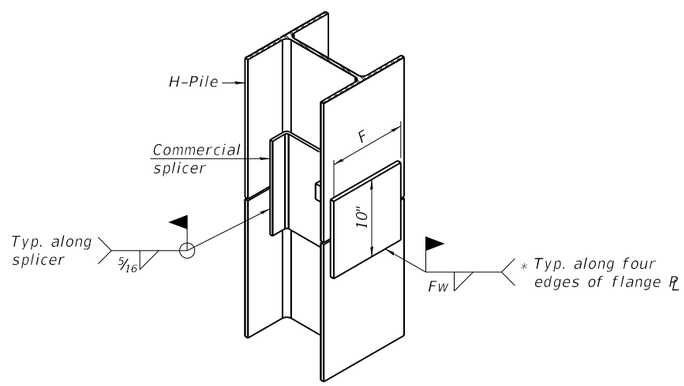


DETAIL "B"

ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



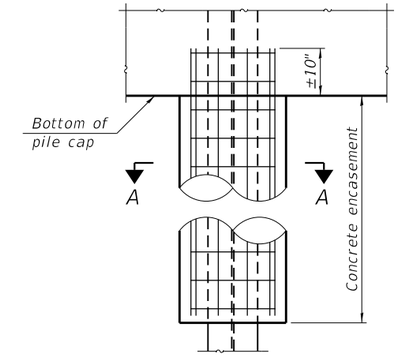
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



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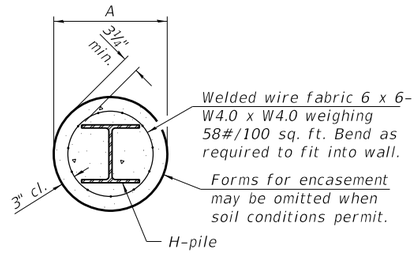
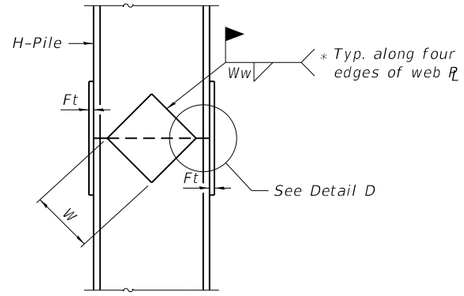


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

(when specified)



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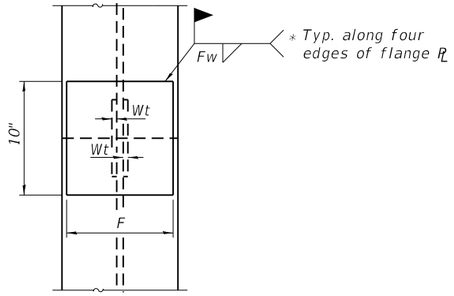
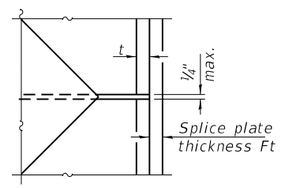


END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1 1/16"	7¾"	⅝"	½"
x73	12½"	⅝"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1 1/16"	6½"	⅝"	½"
x74	10"	⅞"	1 1/16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅜"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9/16"	5¼"	½"	⅜"
x42	8"	⅝"	9/16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7/16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP 1-1-2020

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

HP PILE DETAILS

SHEET 5 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	13
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

Lincoln Prairie Trail Bridge Replacement
Taylorville, Christian County, Illinois
Project No. 181-3018

HURST-ROSCHE, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: October 17 and 18, 2018
BORING ENG.: M. Emken
DRILLING TECH.: S. Bowers

FOUNDATION BORING LOG

BORING NO.: 1 COORDINATES: 20' NW of Existing NW Abutment SURFACE ELEV.: 583.0 ft.	N Value	Qu (tsf)	W (%)	REC (%)
0 Asphalt (4") Coarse Aggregate (CA-6) (8") 582.0 ft.				
SILT (ML), Gray, Moist, Very Stiff		P		
	16	4.0	11.8	90
579.0 ft.		P		
SILTY CLAY (CL), Brown, Dry to Moist, Hard 5	12	4.5	14.3	80
Dry		P		
	9	4.25	10.3	85
Gray and Brown, Dry to Moist		P		
10	12	>4.5	13.8	60
572.0 ft.		P		
SILTY LOAM (ML), Gray, Brown, Mottled, Dry to Moist, Hard	21	4.5	6.3	90
		P		
15	19	4.5	8.2	100
567.0 ft.				
SANDY LOAM (SP), Gray, Orange, Mottled, Moist, Very Fine, Medium Dense	11	NP	--	95
564.0 ft.				
SAND (SP), Brown and Gray, Saturated, Fine, Medium Dense, Trace of Gravel. No Fines 20	10	NP	--	70

GROUNDWATER ELEV. COMP.: -35.0 ft. AFTER 24 HRS.: -21.0 ft.	N Value	Qu (tsf)	W (%)	REC (%)
20 562.0 ft.		P		
CLAY TILL (CL), Brown and Gray, Moist, Very Stiff, Trace of Sand and Gravel 561.0 ft.	14	4.0	13.6	100
SILTY CLAY TILL (CL), Gray, Moist, Hard, Trace of Gravel Dry to Moist		P		
25	31	>4.5	11.5	100
		P		
	29	>4.5	10.7	100
		P		
30	28	>4.5	11.0	100
		P		
35	27	>4.5	11.3	100
Silty Sand Seam (4")		P		
40	52	>4.5	12.1	100

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

BORING 1

Lincoln Prairie Trail Bridge Replacement
Taylorville, Christian County, Illinois
Project No. 181-3018

HURST-ROSCHE, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: October 17 and 18, 2018
BORING ENG.: M. Emken
DRILLING TECH.: S. Bowers

FOUNDATION BORING LOG

BORING NO.: 1 (cont.) COORDINATES: 20' NW of Existing NW Abutment SURFACE ELEV.: 583.0 ft.	N Value	Qu (tsf)	W (%)	REC (%)
40 SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Gravel		P		
Silty Sand Seam (4") 45	71	>4.5	14.3	100
		P		
Trace of Gravel and Sand 50	60	>4.5	12.6	100
		P		
528.0 ft. 55	34	>4.5	12.9	100
End of Exploration at -55.0 ft. 60				

GROUNDWATER ELEV. COMP.: -35.0 ft. AFTER 24 HRS.: -21.0 ft.	N Value	Qu (tsf)	W (%)	REC (%)
60				
Notes: 1) Borehole backfilled with soil cuttings upon final groundwater measurement. 2) Groundwater encountered at 19 ft. depth during drilling.				
65				
70				
75				
80				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

BORING 1

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CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

BORING LOG
SHEET 6 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	14
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

Lincoln Prairie Trail Bridge Replacement
Taylorville, Christian County, Illinois
Project No. 181-3018

HURST-ROSCHE, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: October 18 and 19, 2018
BORING ENG.: M. Emken
DRILLING TECH.: S. Bowers

FOUNDATION BORING LOG

BORING NO.: 2 COORDINATES: 30' SE of Existing SE Abutment SURFACE ELEV.: 582.8 ft.	N Value	Qu (tsf)	W (%)	REC (%)
0 Asphalt (3") Coarse Aggregate (CA-6)				
	--	--	--	--
579.3 ft. SILTY CLAY (CL), Brown, Dry to Moist, Hard		P		
5	10	4.5	14.6	55
Dark Brown, Moist		P		
	11	4.5	17.5	80
		P		
Dark Brown, Orange, Mottled, Moist, Very Stiff 10	10	3.5	22.3	70
		P		
	6	2.25	21.8	100
		P		
15	9	2.75	25.3	100
		P		
	5	2.25	23.4	100
		P		
20 Light Brown and Gray	5	2.25	20.5	100

GROUNDWATER ELEV. COMP.: -23.9 ft. AFTER 24 HRS.: --	N Value	Qu (tsf)	W (%)	REC (%)
20 Gray, Medium Stiff		P		
	3	0.75	23.8	100
559.3 ft. SILTY LOAM (ML), Gray, Wet, Soft, Trace of Sand		P		
25	3	0.5	21.8	100
		P		
555.8 ft. SAND (SP), Brown, Medium Coarse to Coarse, Very Loose		0.25		
	3	NP	--	90
554.3 ft. SILTY LOAM (ML), Gray, Wet, Soft, Trace of Sand		P		
30	3	0.5	23.3	100
548.8 ft. SAND (SP), Gray, Saturated, Fine to Medium Coarse, Very Loose, No Fines				
35	1	NP	--	100
543.8 ft. SILTY CLAY TILL (CL), Gray, Moist, Hard, Trace of Gravel		P		
40	25	>4.5	11.6	100

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

BORING 2

Lincoln Prairie Trail Bridge Replacement
Taylorville, Christian County, Illinois
Project No. 181-3018

HURST-ROSCHE, INC.
HILLSBORO, ILLINOIS
PHONE 217/532-3959

DATE: October 17 and 18, 2018
BORING ENG.: M. Emken
DRILLING TECH.: S. Bowers

FOUNDATION BORING LOG

BORING NO.: 2 (cont.) COORDINATES: 30' SE of Existing SE Abutment SURFACE ELEV.: 582.8 ft.	N Value	Qu (tsf)	W (%)	REC (%)
SILTY CLAY TIL (CL), Gray, Moist, Hard, Trace of Gravel 40				
		P		
45	50	>4.5	17.5	100
		P		
50	37	>4.5	13.5	100
		P		
55	44	>4.5	12.9	100
		P		
60	42	>4.5	13.0	100

GROUNDWATER ELEV. COMP.: -23.9 ft. AFTER 24 HRS.: --	N Value	Qu (tsf)	W (%)	REC (%)
60		P		
517.8 ft. 65	31	4.5	15.0	100
End of Exploration at -65.0 ft. Note: Borehole backfilled with soil cuttings upon final groundwater measurement.				
70				
75				
80				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
NP: Non-Plastic
ST: Shelby Tube
W: Water Content

Type Failure:
B: Bulge Failure
S: Shear Failure
NS: No Sample
P: Penetrometer

BORING 2

MODEL: Default
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Springfield, IL 62701
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Professional Design Firm No. 184-006516

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PLOT DATE = 6/22/2023	CHECKED -	REVISED -

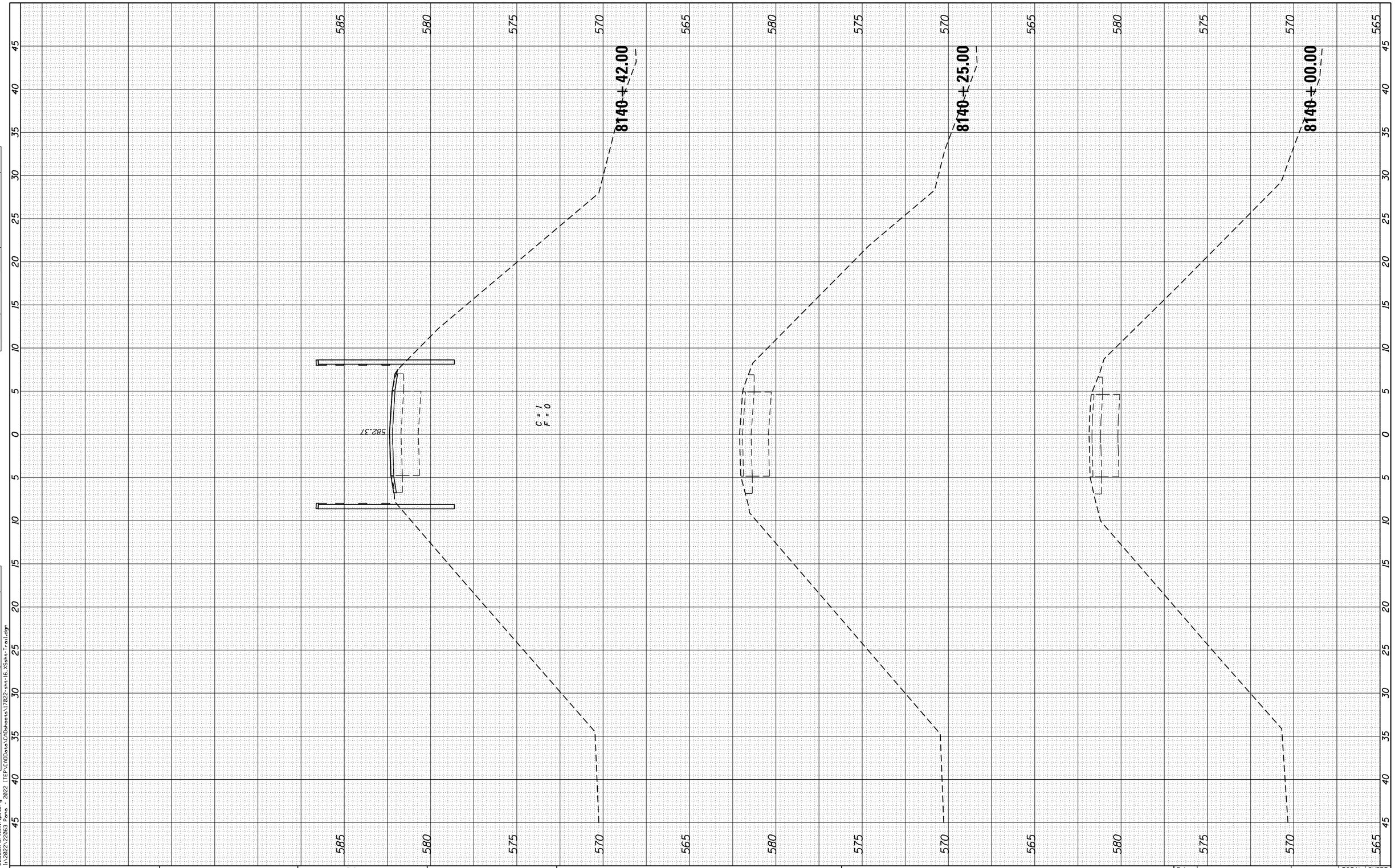
CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

BORING LOG
SHEET 7 OF 7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	15
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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

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



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USER NAME = msutheard	DESIGNED MDS	REVISED -	
FILE NAME = 17022-sht-16.XSsht-Trail.dgn	DRAWN MDS	REVISED -	
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PLOT DATE = 6/22/2023	DATE 6/13/23	REVISED -	

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

CROSS SECTIONS
BIKE TRAIL

SCALE: | SHEET OF SHEETS | STA. 8140+00.00 | TO STA. 8140+42.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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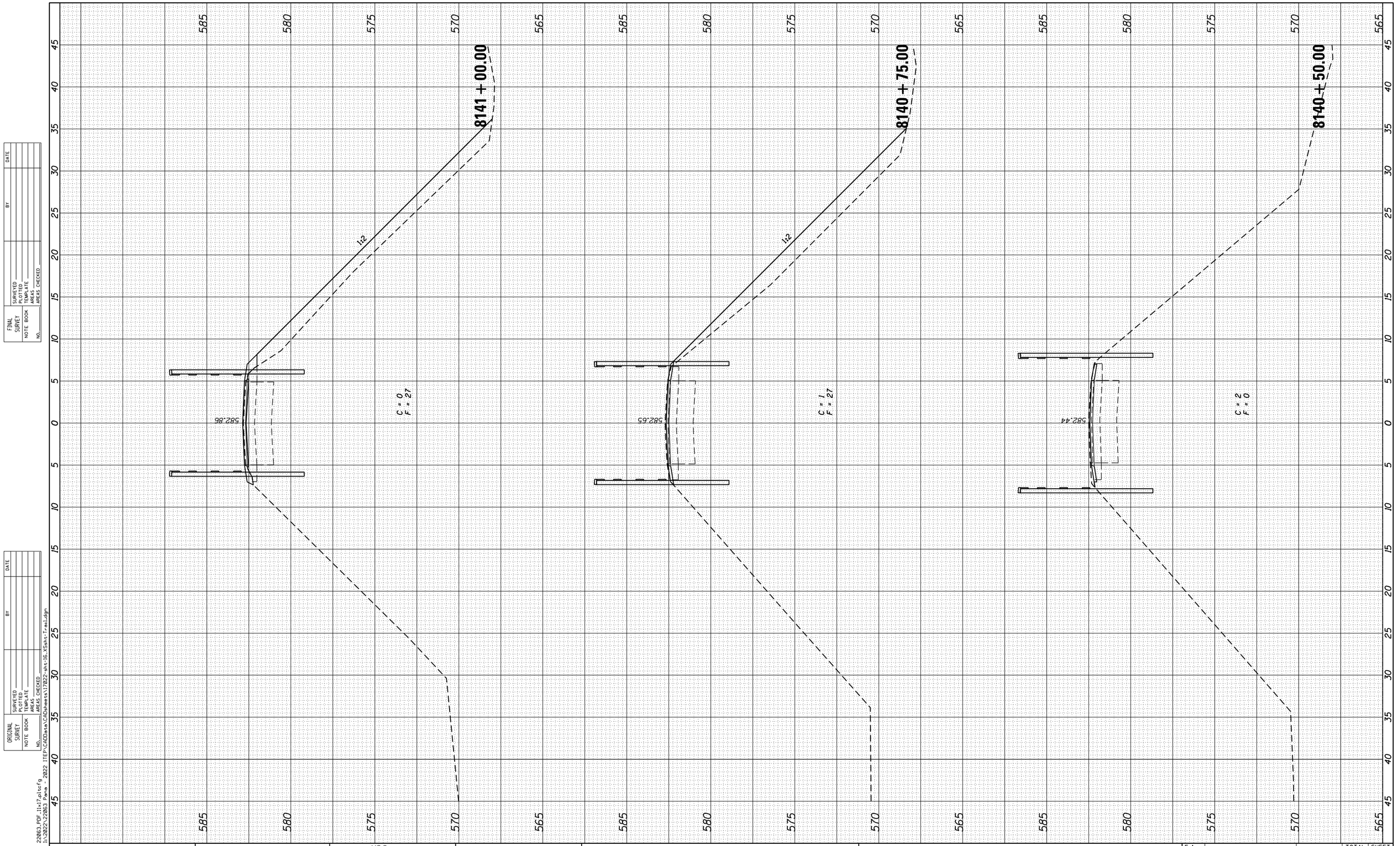
		CONTRACT NO. 93750		
	ILLINOIS	FED. AID PROJECT		



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

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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USER NAME = msutheard	DESIGNED MDS	REVISED -
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PLOT DATE = 6/22/2023	DATE 6/13/23	REVISED -

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

CROSS SECTIONS
BIKE TRAIL

SCALE: | SHEET OF SHEETS | STA. 8140+50.00 TO STA. 8141+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	17
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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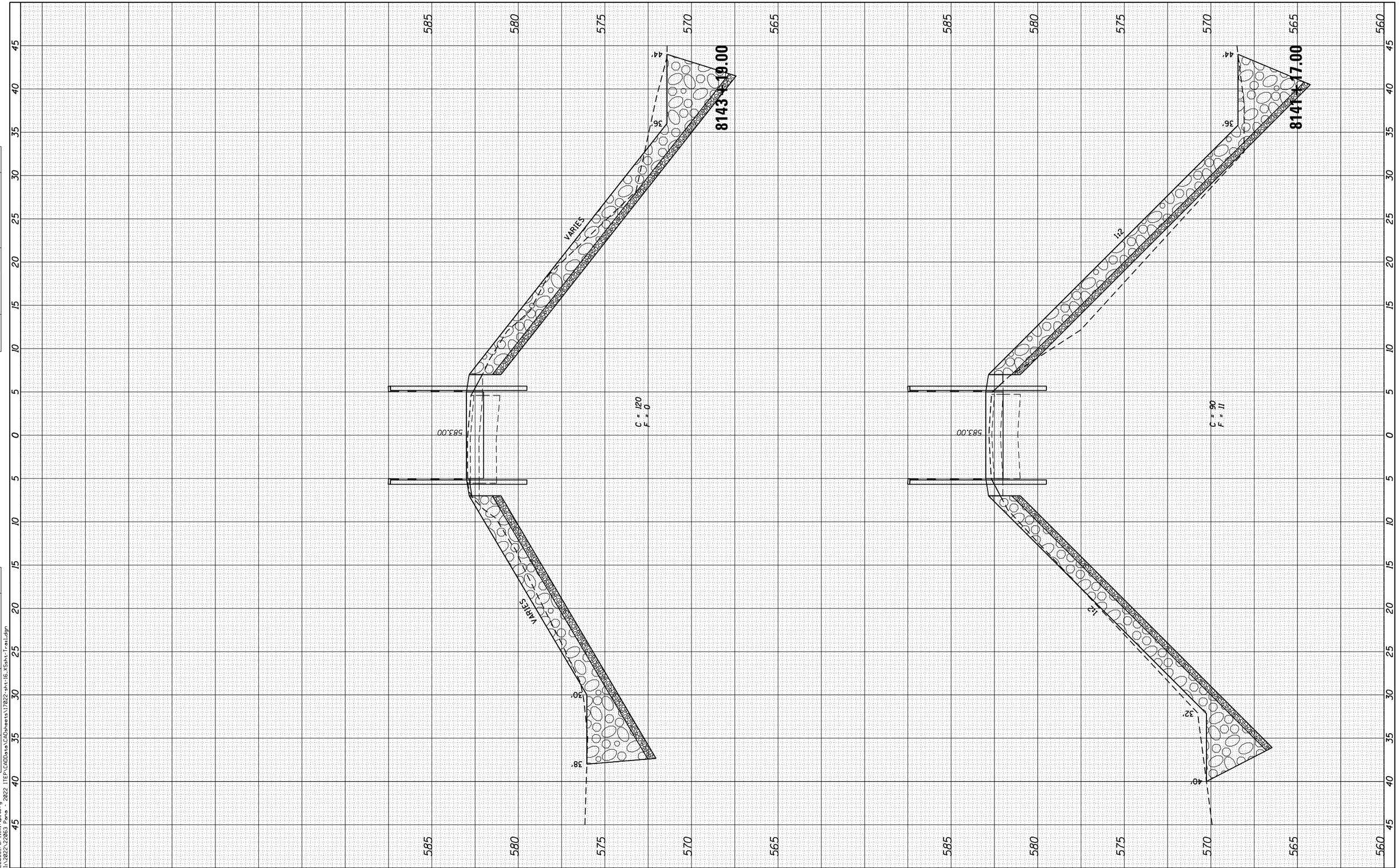
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



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

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USER NAME = msutheard	DESIGNED MDS	REVISED -	
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PLOT DATE = 6/22/2023	DATE 6/13/23	REVISED -	

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

CROSS SECTIONS
BIKE TRAIL

SCALE: | SHEET OF SHEETS | STA. 8141+17.00 TO STA. 8143+19.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	18
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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

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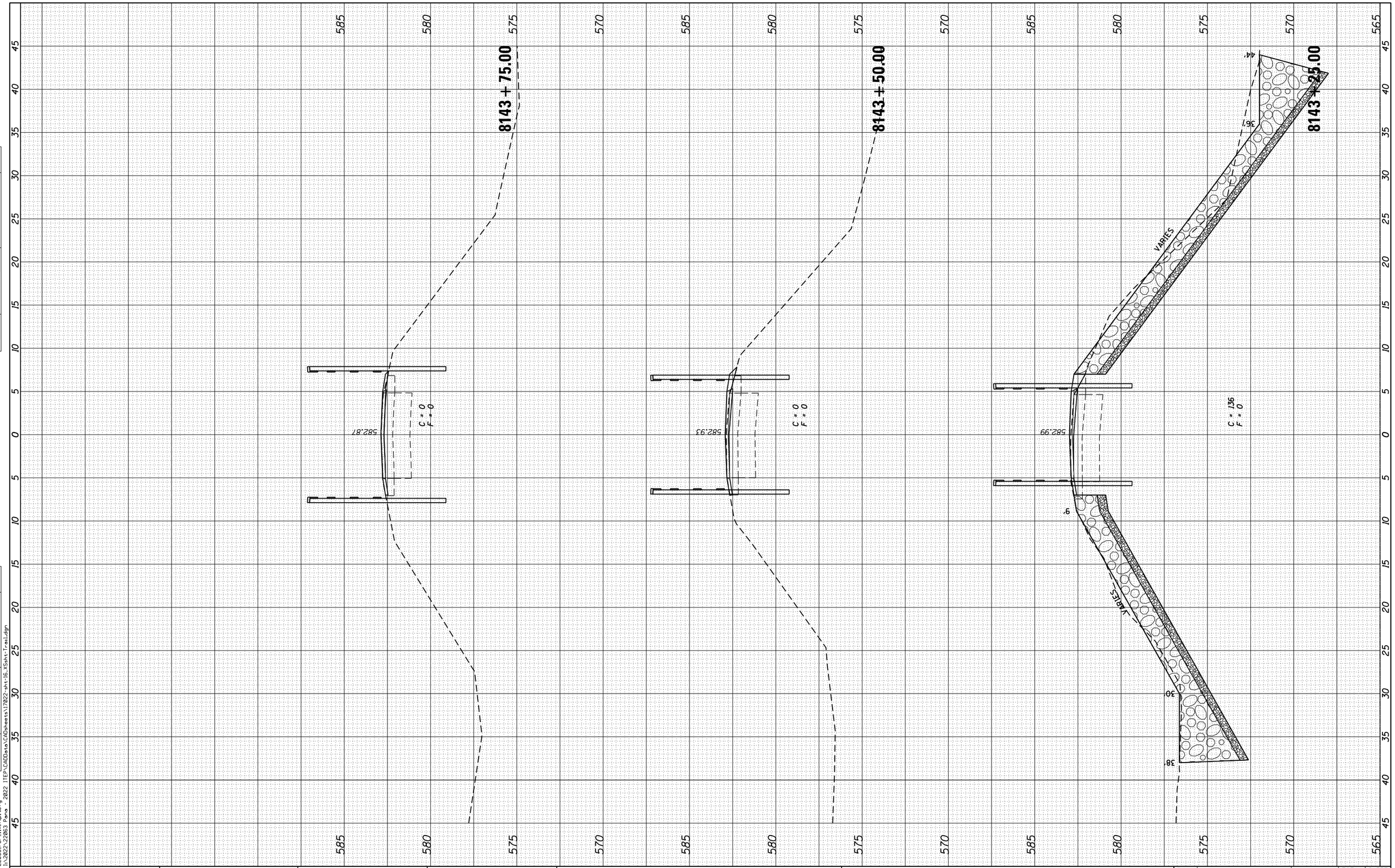

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USER NAME = msutheard	DESIGNED MDS	REVISED -
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PLOT DATE = 6/22/2023	DATE 6/13/23	REVISED -

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

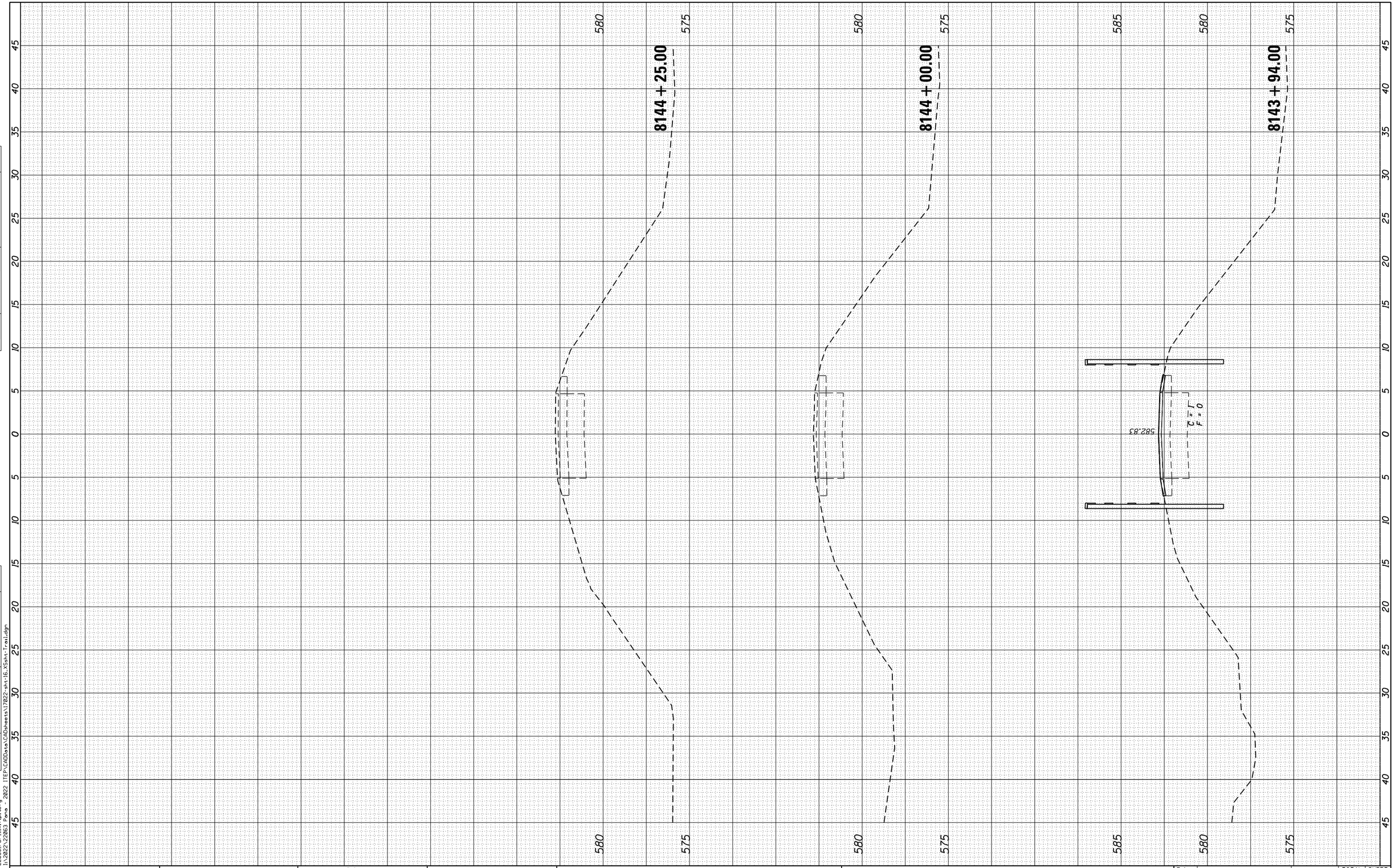
CROSS SECTIONS
BIKE TRAIL

SCALE: | SHEET OF SHEETS | STA. 8143+25.00 TO STA. 8143+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	19
		CONTRACT NO. 93750		
	ILLINOIS FED. AID PROJECT			

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

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



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USER NAME = msutheard	DESIGNED MDS	REVISED -
FILE NAME = 17022-sht-16.XSsht-Trail.dgn	DRAWN MDS	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED KLK	REVISED -
PLOT DATE = 6/22/2023	DATE 6/13/23	REVISED -

CITY OF PANA
LINCOLN PRAIRIE TRAIL BRIDGE REPLACEMENT

CROSS SECTIONS
BIKE TRAIL

SCALE: | SHEET OF SHEETS | STA. 8143+94.00 | TO STA. 8144+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00054-00-BR	CHRISTIAN	20	20
		CONTRACT NO. 93750		
	ILLINOIS	FED. AID PROJECT		