11/07/2025 LETTING ITEM 134

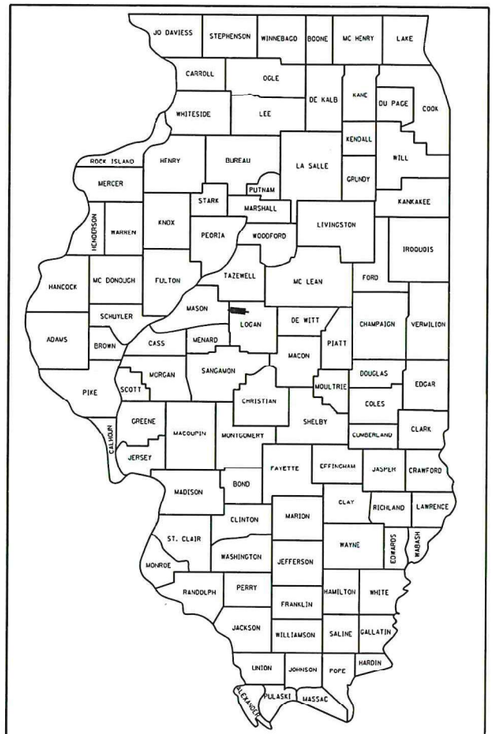
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	1
FEDERAL AID PROJECT	ILLINOIS	CONTRACT NO. 93846		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

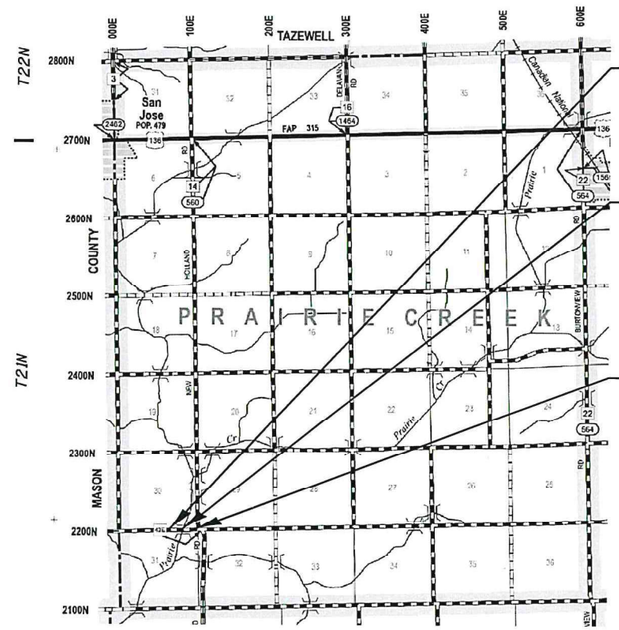
PLANS FOR PROPOSED LOCAL BRIDGE FORMULA PROGRAM

CH 24 (2200TH ST) OVER PRAIRIE CREEK
SECTION 22–00103–02–BR
PROJECT HS17(651)
LOGAN COUNTY
C–96–003–26

SEE SHEET 2 FOR INDEX OF SHEETS AND LIST OF ILLINOIS DOT HIGHWAY STANDARDS



LOCATION OF SECTION INDICATED THUS:– ▬



LAYOUT

Net Length of Section = 540.00 FEET = 0.102 MILES

0 1 2 3 4 5

SCALE IN MILES

FUNCTIONAL CLASSIFICATION : MINOR COLLECTOR
DESIGN SPEED 30 MPH
CURRENT ADT= 100 (2022)

UTILITY CONTACTS:
NONE

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 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

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

KIMBERLY S. CUMMINS
56816
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

Kimberly S. Cummins 7/29/25
ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/25)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 7/29, 20 25

LOGAN COUNTY ENGINEER

PASSED August 12, 20 25

Brian Wright MEB
Digitally signed by Mark Bloome, PE
Date: 2025.08.12 11:42:44 -05'00'

DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW August 12, 20 25

Teresa Price MEB
Digitally signed by Mark Bloome, PE
Date: 2025.08.12 11:43:23 -05'00'

REGION FOUR ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3–4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES
7	ALIGNMENT, BENCHMARKS, AND CROSS TIES
8–9	PLAN AND PROFILE
10	TRAFFIC CONTROL – ADVANCE WARNING SIGNS (ROAD CLOSURE)
11–21	BRIDGE PLANS
22–23	CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001–08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001–02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001–07	TEMPORARY EROSION CONTROL SYSTEMS
515001–04	NAME PLATE FOR BRIDGES
701001–02	OFF–ROAD OPERATIONS, 2L, 2W, MORE THAN 15′ (4.5 M) AWAY FROM PAVEMENT EDGE
701006–05	OFF–ROAD OPERATIONS, 2L, 2W, 15′ (4.5 M) TO 24″ (600 MM) FROM PAVEMENT EDGE
701901–10	TRAFFIC CONTROL DEVICES
BLR 21–9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

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

2. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.

   SEEDING CLASS 2 (SPECIAL) = 0.50 ACRES

3. TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO DISTURBED EARTH DURING THE PERIOD WHEN PERMANENT SEEDING IS NOT ALLOWED.

4. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

5. THE LOCATION OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E NUMBER IS 1 (800) 892–0123. A MINIMUM 48 HOURS ADVANCE NOTICE IS REQUIRED. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES WITH UTILITY COMPANIES LISTED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

7. LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

APPLICATION RATES USED IN QUANTITY CALCULATIONS

GRANULAR MATERIALS — — — — — — — — — 2.05 TONS / CU YD
RIPRAP — — — — — — — — — — — — — — 1.7 TONS / CU YD
TEMPORARY EROSION CONTROL SEEDING — — — 100 LB / ACRE

COMMITMENTS

NONE

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - CGF	REVISED -
FILE NAME = 2781-sht-gen.dgn	DRAWN - CFC	REVISED -
PLOT SCALE = 100.0000 ′ / in.	CHECKED - TSH	REVISED -
PLOT DATE = 7/23/2025	DATE - 3/20/2025	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

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

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	2
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% LOCAL BRIDGE 0013 054-3046
20200100	EARTH EXCAVATION	CU YD	65	65
20300100	CHANNEL EXCAVATION	CU YD	340	340
20400800	FURNISHED EXCAVATION	CU YD	170	170
20600110	GRANULAR EMBANKMENT, SPECIAL	TON	331	331
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40
28000305	TEMPORARY DITCH CHECKS	FOOT	16	16
28000400	PERIMETER EROSION BARRIER	FOOT	150	150
28100207	STONE RIPRAP, CLASS A4	TON	270	270
28200200	FILTER FABRIC	SQ YD	290	290
35100100	AGGREGATE BASE COURSE, TYPE A	TON	403	403
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1
50102400	CONCRETE REMOVAL	CU YD	3.6	3.6
50200100	STRUCTURE EXCAVATION	CU YD	6	6
50300225	CONCRETE STRUCTURES	CU YD	2.6	2.6

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% LOCAL BRIDGE 0013
	50300280	CONCRETE ENCASEMENT	CU YD	2.5	2.5
	50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2,394	2,394
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	340	340
*	50900205	STEEL RAILING, TYPE S1	FOOT	200	200
	51500100	NAME PLATES	EACH	1	1
	67100100	MOBILIZATION	L SUM	1	1
	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.50	0.50
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1

* SPECIALTY ITEM

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

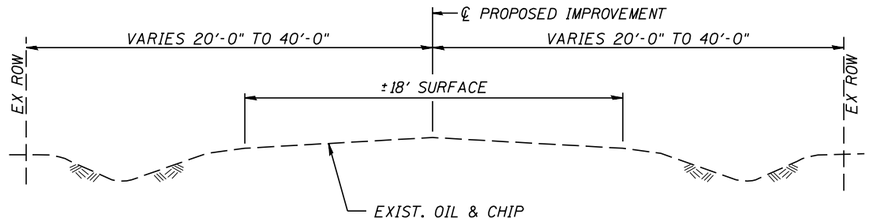
JOB = 2781	DESIGNED - CFC	REVISED -
FILE NAME = 2781-sht-SOQ.dgn	DRAWN - CFC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 8/1/2025	DATE - 03/21/2025	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

SUMMARY OF QUANTITIES

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

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	4
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

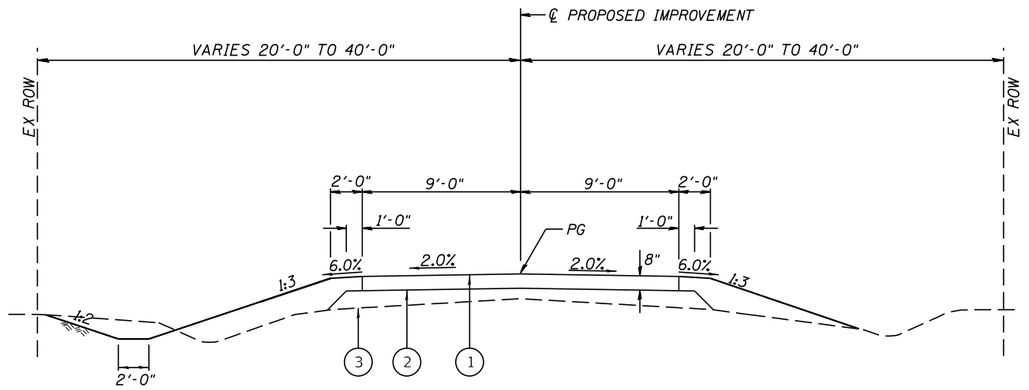


EXISTING TYPICAL SECTION

STA 13+10.00 TO STA 15+19.27
STA 16+20.93 TO STA 18+50.00

OMISSIONS

BRIDGE
STA 15+19.27 TO STA 16+20.93



CUT SECTION-CONSTRUCT AS
SHOWN ON STATION CROSS SECTIONS

FILL SECTION-CONSTRUCT AS
SHOWN ON STATION CROSS SECTIONS

PROPOSED TYPICAL SECTION

STA 13+10.00 TO STA 15+19.27
STA 16+20.93 TO STA 18+50.00

LEGEND

1. PROPOSED BITUMINOUS SURFACE TREATMENT A2 (BY OTHERS)
2. PROPOSED AGGREGATE BASE COURSE, TYPE A
3. PROPOSED GRANULAR EMBANKMENT, SPECIAL

NOTE:
TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY
FROM STA 13+10.00 TO STA 13+35.00
TRANSITION FROM PROPOSED ROADWAY TO EXISTING ROADWAY
FROM STA 18+25.00 TO STA 18+50.00

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - CGF	REVISED -
FILE NAME = 2781-sht-typ.dgn	DRAWN - CFC	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 8/1/2025	DATE - 3/20/2025	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

TYPICAL SECTIONS

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

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	5
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION		20200100 EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	20400800 FURNISHED EXCAVATION EARTHWORK BALANCE WASTE (+) OR
		CU YD	CU YD	CU YD	CU YD
STA 13+10.00	TO STA 15+00.00	25	20	90	-70
STA 16+20.93	TO STA 18+50.00	40	30	130	-100
CHANNEL EXCAVATION		340			
TOTAL		65	50	220	-170

SHRINKAGE = 25%

20600110 GRANULAR EMBANKMENT, SPECIAL

LOCATION			TON
STA 13+10.00	TO STA 15+19.27		137
STA 15+17.27	TO STA 15+19.27	@ backwall	3
STA 16+20.93	TO STA 16+22.93	@ backwall	3
STA 16+20.93	TO STA 18+50.00		188
TOTAL			331

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION		POUND
LT STA 13+10.00	TO STA 15+90.00	14
LT STA 16+09.00	TO STA 18+50.00	9
RT STA 13+10.00	TO STA 15+47.00	7
RT STA 15+69.00	TO STA 18+50.00	10
TOTAL		40

28000305 TEMPORARY DITCH CHECKS

LOCATION	FOOT
LT STA 16+50.00	8
RT STA 16+50.00	8
TOTAL	16

28000400 PERIMETER EROSION BARRIER

LOCATION		FOOT
RT STA 13+50.00	TO STA 15+00.00	150
TOTAL		150

35100100 AGGREGATE BASE COURSE, TYPE A

LOCATION		WIDTH	TON
STA 13+10.00	TO STA 13+35.00	18	22.78
STA 13+35.00	TO STA 15+19.27	18	169.57
STA 16+20.93	TO STA 18+25.00	18	187.61
STA 18+25.00	TO STA 18+50.00	18	22.78
TOTAL			402.74
USE			403

X2501000 SEEDING, CLASS 2 (SPECIAL)

LOCATION		ACRE
LT STA 13+10.00	TO STA 15+90.00	0.14
LT STA 16+09.00	TO STA 18+50.00	0.09
RT STA 13+10.00	TO STA 15+47.00	0.07
RT STA 15+69.00	TO STA 18+50.00	0.10
TOTAL		0.40
USE		0.50

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - CFC	REVISED -	
FILE NAME = 2781-sht-schedule.dgn	DRAWN - CFC	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - CGF	REVISED -	
PLOT DATE = 8/1/2025	DATE - 03/21/2025	REVISED -	

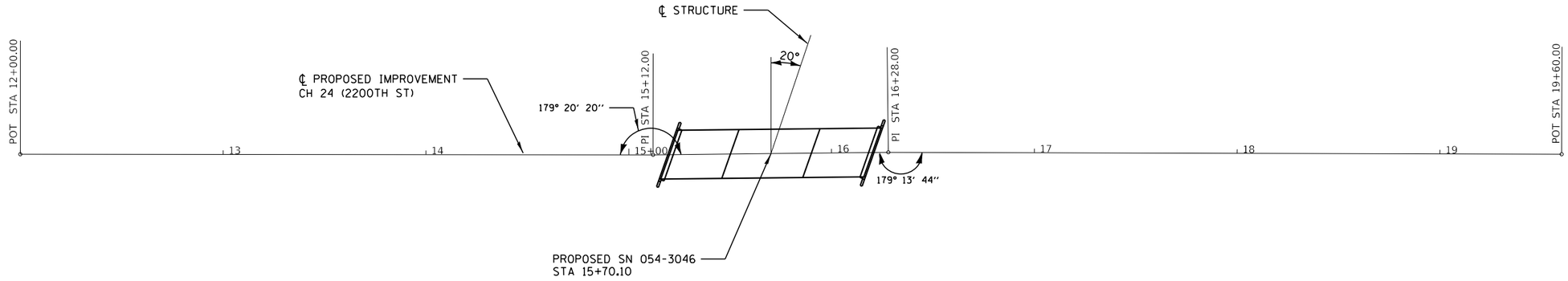
LOGAN COUNTY
CH 24 IMPROVEMENTS

SCHEDULE OF QUANTITIES

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

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	6
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC 30, T21N, R4W, 3RD PM



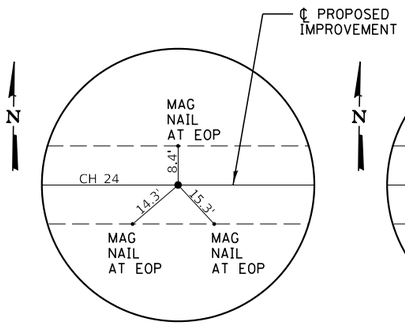
SEC 31, T21N, R4W, 3RD PM

BM#1 - MAG NAIL IN END OF 24"Ø CMP
STA. 9+92, 18.5' LT
ELEV. 528.70

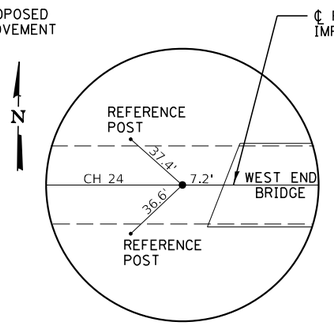
BM#2 - CHISELED "□" IN NW WINGWALL OF BRIDGE
STA. 15+24, 12.7' LT
ELEV. 531.20

BM#3 - CHISELED "□" IN SE WINGWALL OF BRIDGE
STA. 16+16, 12.5' RT
ELEV. 531.19

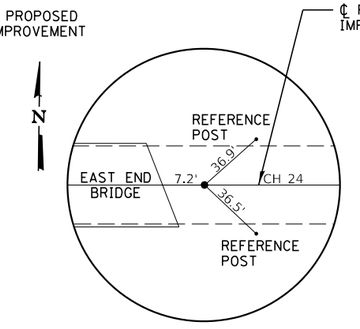
℄ PROPOSED IMPROVEMENT			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	12+00.00	1299311.67	2458348.88
PI	15+12.00	1299315.41	2458660.85
PI	16+28.00	1299318.14	2458776.82
POT	19+60.00	1299321.48	2459108.81



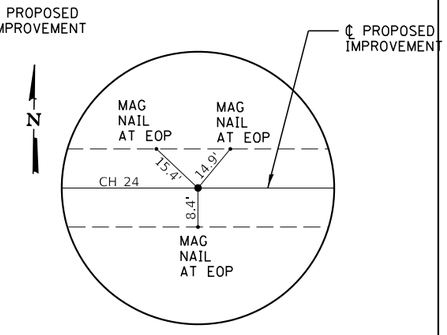
POT STA 12+00.00
MAG NAIL



PI STA 15+12.00
MAG NAIL



PI STA 16+28.00
MAG NAIL



POT STA 19+60.00
MAG NAIL

CEC Cummins Engineering Corporation ENGINEERS & SURVEYORS	JOB = 2781	DESIGNED - CFC	REVISED -	LOGAN COUNTY CH 24 IMPROVEMENTS	ALIGNMENT, BENCHMARKS, AND CROSS TIES
	FILE NAME = 2781-sht-all.dgn	DRAWN - CFC	REVISED -		
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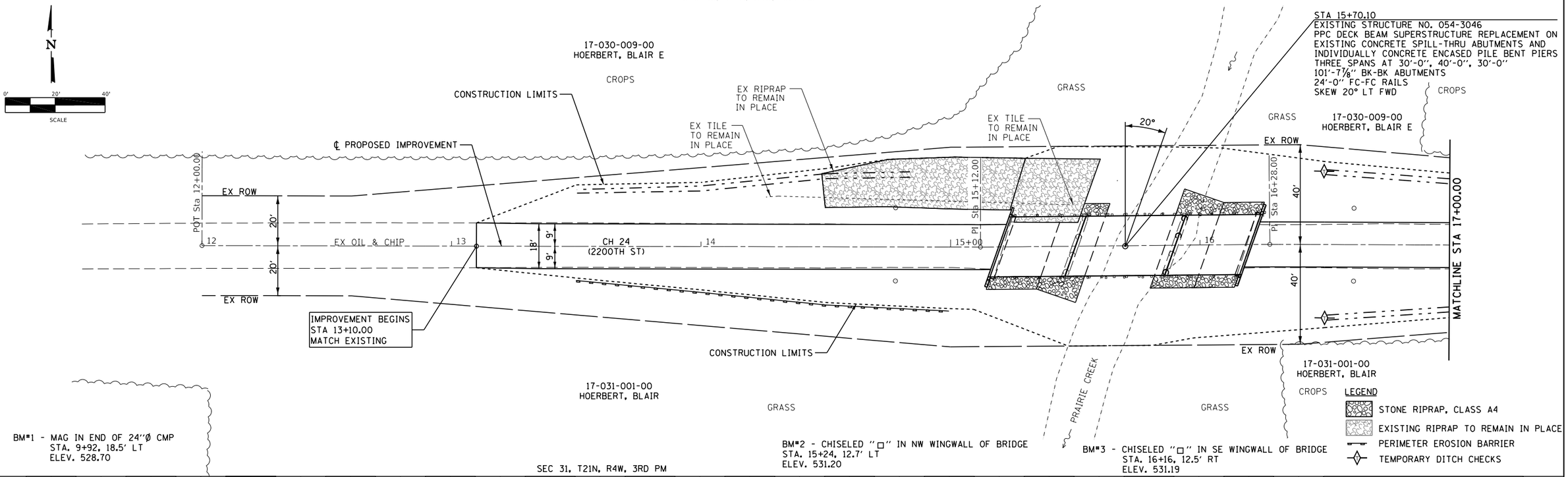
	PLOT DATE = 8/1/2025	DATE - 03/18/2025	REVISED -		SCALE: / SHEET NO. OF SHEETS / STA. / TO STA.

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	7
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC 30, T21N, R4W, 3RD PM



BM#1 - MAG IN END OF 24"Ø CMP
STA. 9+92, 18.5' LT
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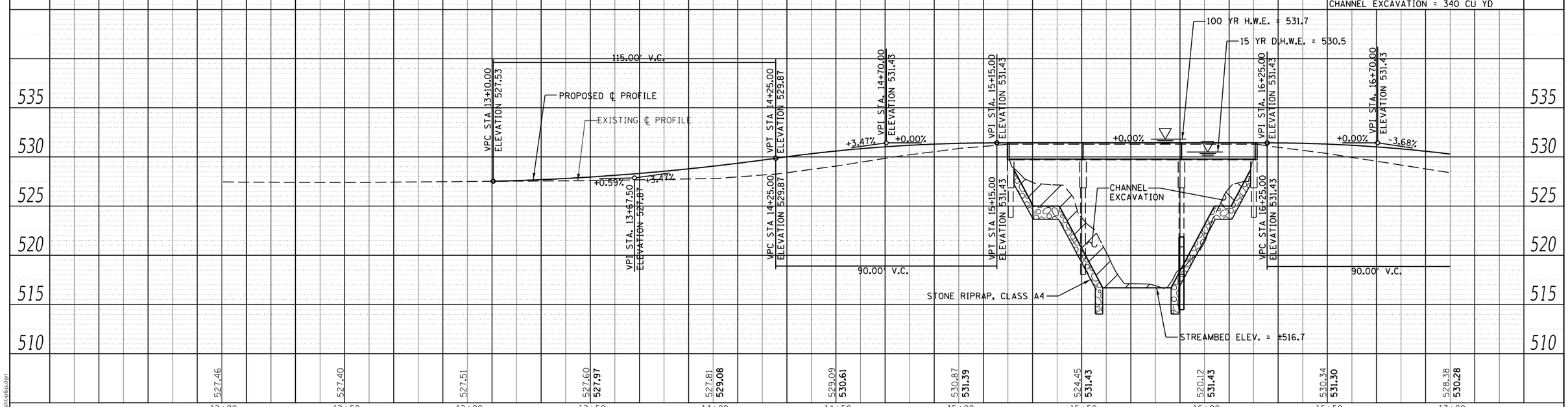
BM#2 - CHISELED "□" IN NW WINGWALL OF BRIDGE
STA. 15+24, 12.7' LT
ELEV. 531.20

BM#3 - CHISELED "□" IN SE WINGWALL OF BRIDGE
STA. 16+16, 12.5' RT
ELEV. 531.19

SEC 31, T21N, R4W, 3RD PM

CHANNEL EXCAVATION
THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITHIN THE PROPOSED STRUCTURE THEN TAPER TO MATCH THE EXISTING CHANNEL AT THE RIGHT OF WAY LINES. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.

CHANNEL EXCAVATION = 340 CU YD



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PLOT SCALE = 40.0000 ' / in.	CHECKED - TSH	REVISED -	
PLOT DATE = 8/6/2025	DATE - 3/20/2025	REVISED -	

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

LOGAN COUNTY
CH 24 IMPROVEMENTS

PLAN AND PROFILE

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

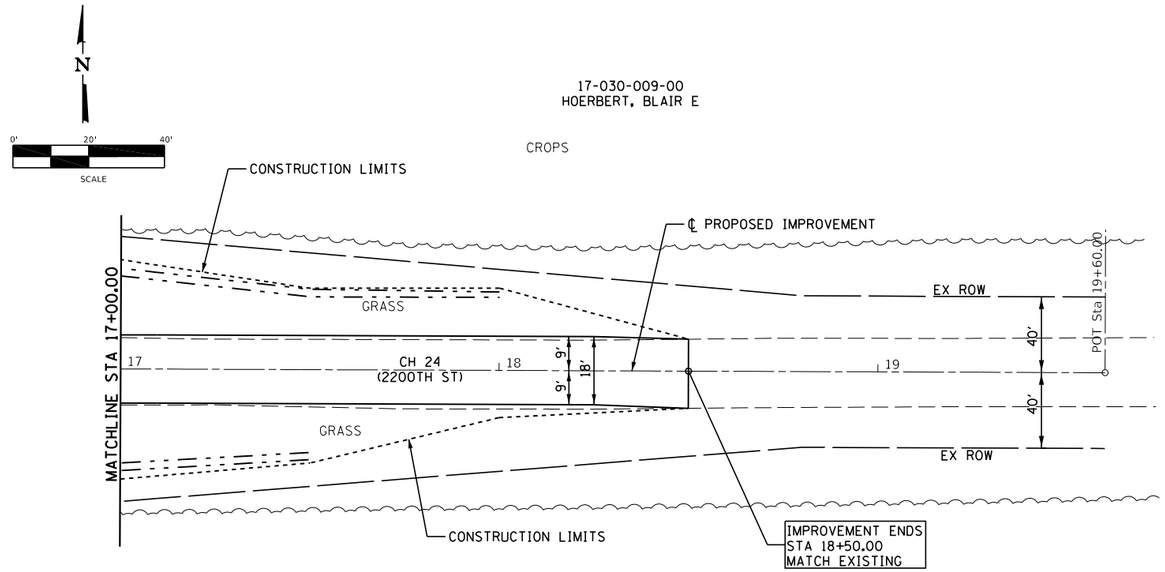
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	8
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

Default
2781-sht-p&p.dgn

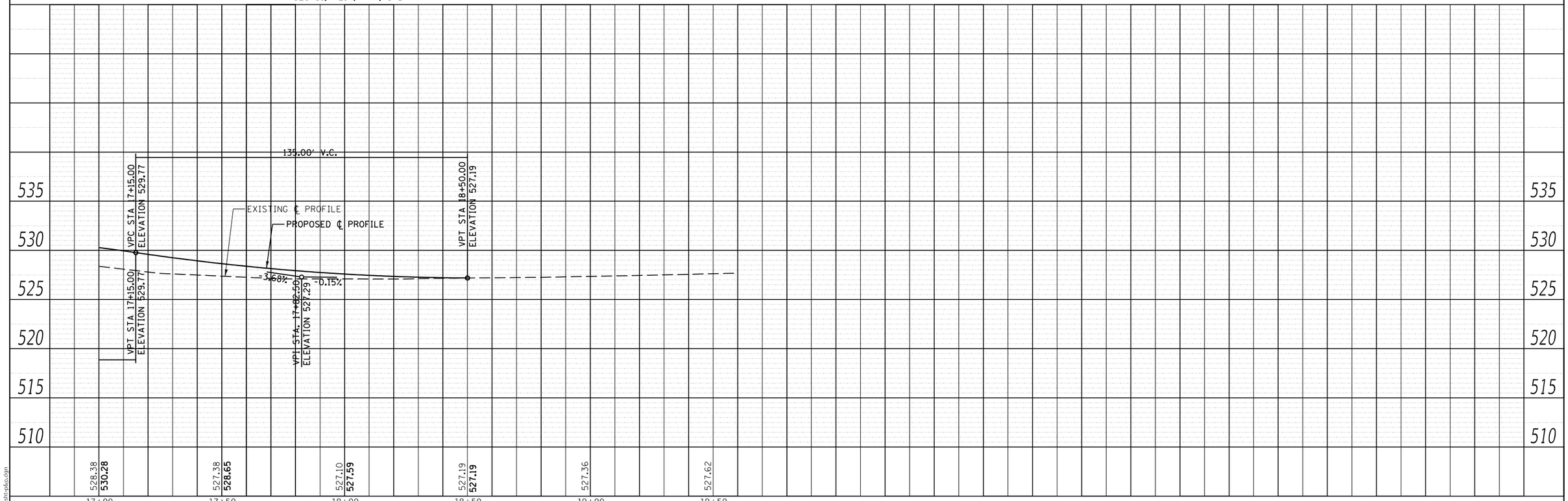
SEC 30, T21N, R4W, 3RD PM



LEGEND

- STONE RIPRAP, CLASS A4
- EXISTING RIPRAP TO REMAIN
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS

SEC 31, T21N, R4W, 3RD PM



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

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

Default
2781-sht-p&p.dgn

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

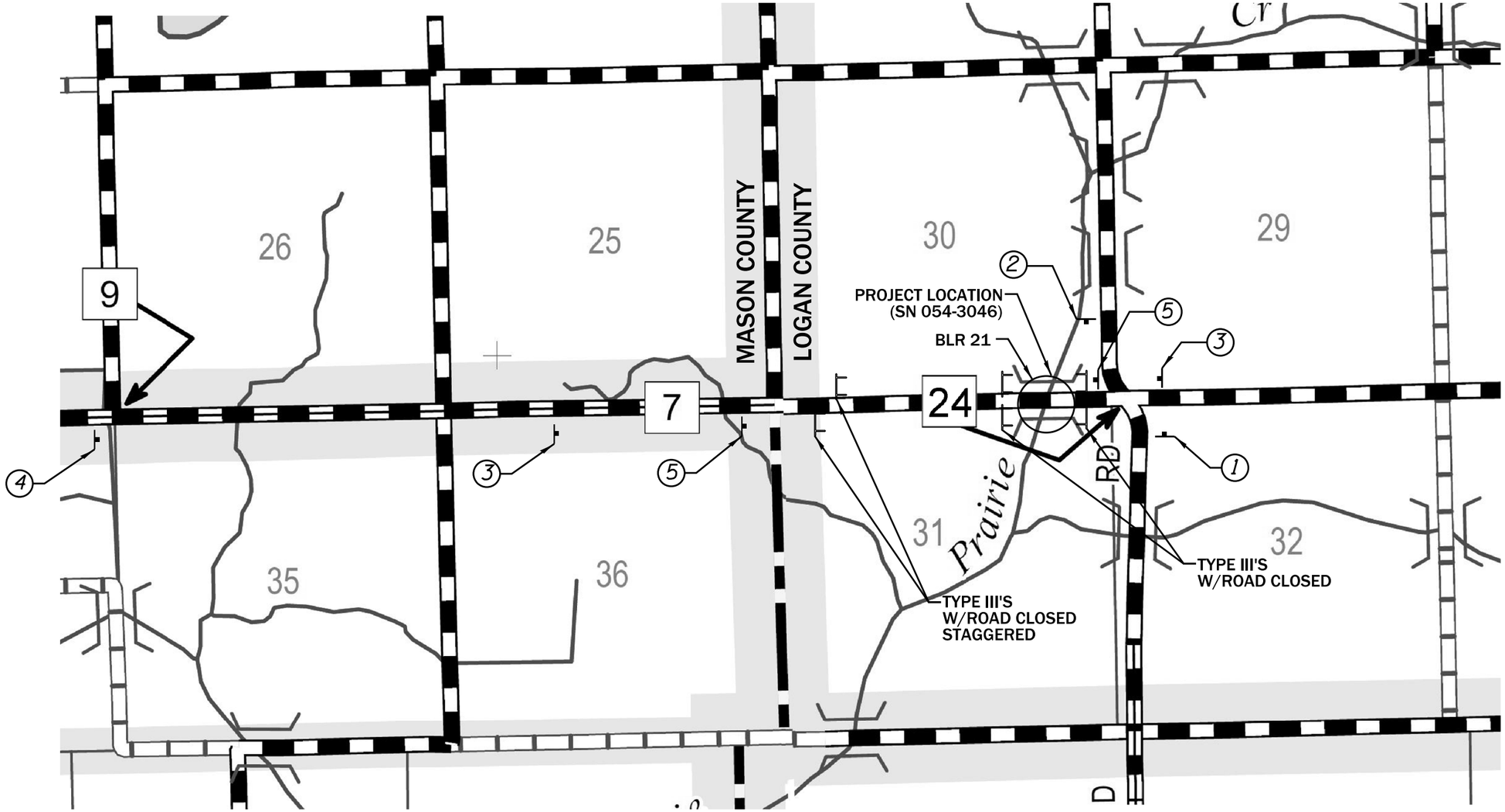
JOB = 2781	DESIGNED - CGF	REVISED -
FILE NAME = 2781-sht-p&p.dgn	DRAWN - CGF	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TSH	REVISED -
PLOT DATE = 8/1/2025	DATE - 3/20/2025	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

PLAN AND PROFILE

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

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	9
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



W20-3(0)-48
M5-1(L)
POST MOUNTED
W/ LIGHT
SIGN PANEL (1)

W20-3(0)-48
M5-1(R)
POST MOUNTED
W/ LIGHT
SIGN PANEL (2)

W20-3(0)-48
POST MOUNTED
W/ LIGHT
SIGN PANEL (3)

W20-3(0)-48
POST MOUNTED
W/ LIGHT
SIGN PANEL (4)

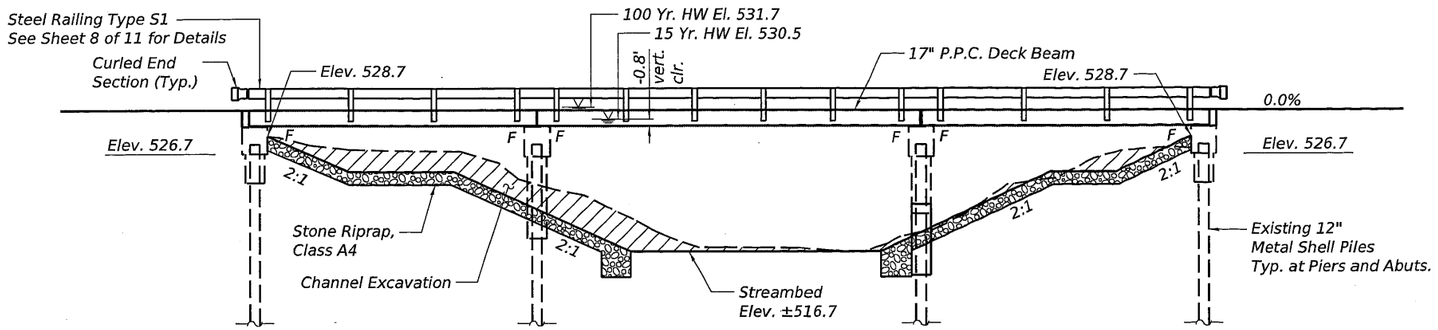
W20-3(0)-48
POST MOUNTED
W/ LIGHT
SIGN PANEL (5)

CEC Cummins Engineering Corporation ENGINEERS & SURVEYORS	JOB = 2781	DESIGNED - CGF	REVISED -	LOGAN COUNTY CH 24 IMPROVEMENTS	TRAFFIC CONTROL ADVANCE WARNING SIGNS (ROAD CLOSURE)
	FILE NAME = 2781-sht-Alternate Route.dgn	DRAWN - CGF	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TSH	REVISED -		
	PLOT DATE = 8/12/2025	DATE - 8/12/2025	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.

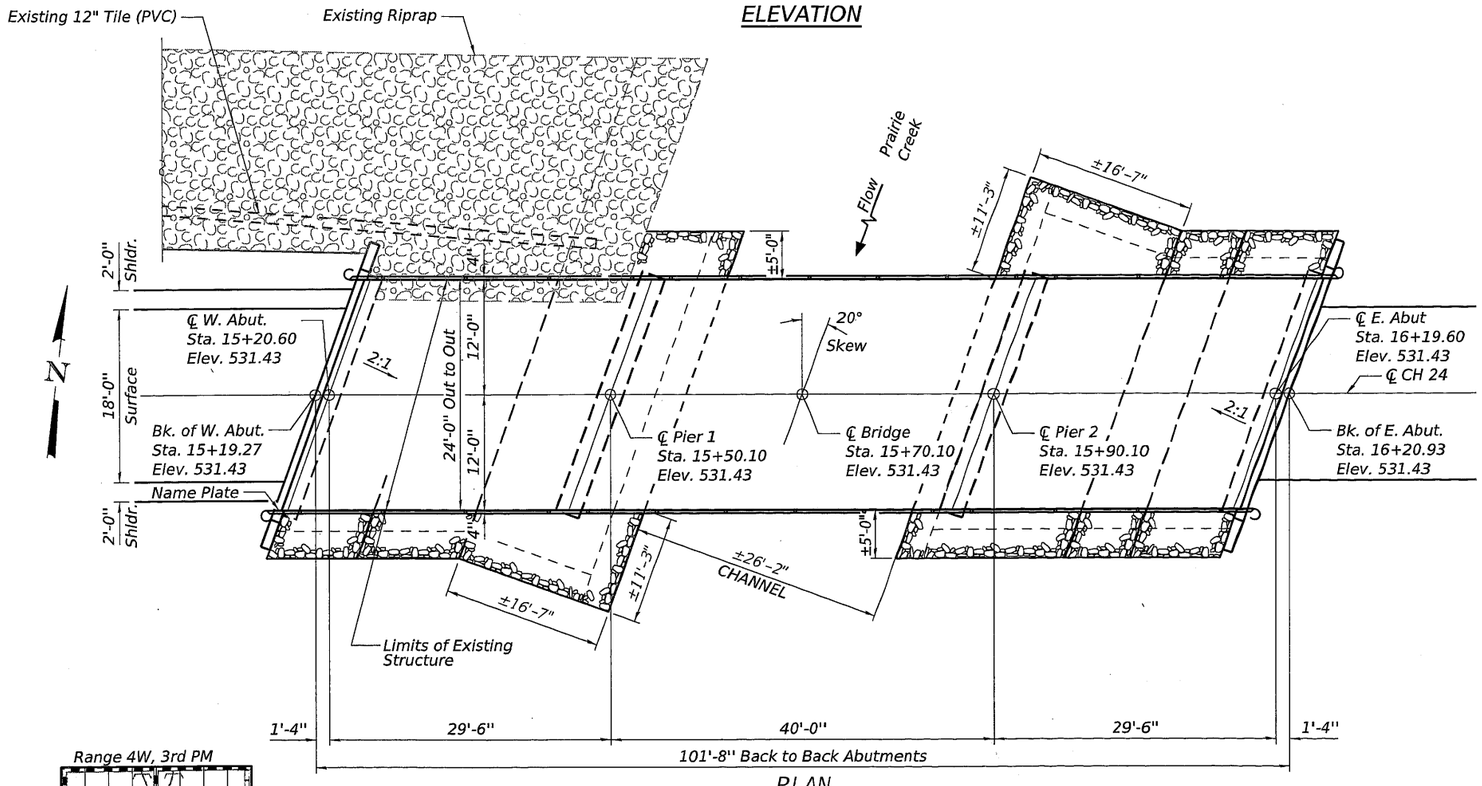
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	10
		CONTRACT NO. 93846		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Benchmark: #2 Chisled square on NW wingwall, 12.4' LT. Sta. 15+23.73, Elev. 531.20.

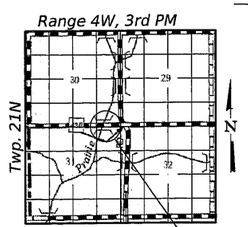
Existing S.N. 054-3046 three span PPC Deck Beam bridge on spill-thru abutments and individually encased pile bent piers. The structure is 101'-8" back to back abutments and 24' out to out deck. The structure is skewed 20° Lt. fwd.



ELEVATION



PLAN



LOCATION SKETCH

INDEX OF SHEETS

PRAIRIE CREEK
RE-BUILT 20__ BY
LOGAN COUNTY
SEC. 22-00103-02-BR
STATION 15+70.10
STR. NO. 054-3046 LOADING HL-93

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Ton		270	270
Filter Fabric	Sq. Yd.		290	290
Removal Of Existing Superstructures	Each		1	1
Concrete Removal	Cu. Yd.		3.6	3.6
Structure Excavation	Cu. Yd.		6	6
Concrete Structures	Cu. Yd.		2.6	2.6
Concrete Encasement	Cu. Yd.		2.5	2.5
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2394		2394
Reinforcement Bars, Epoxy Coated	Pound		340	340
Steel Railing, Type S1	Foot	200		200
Name Plates	Each		1	1

DESIGN SPECIFICATIONS

2025 AASHTO LRFD Bridge Design Specifications, 10th Edition

LOADING HL-93

(NEW CONSTRUCTION)
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD & EXISTING UNITS

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

PRECAST PRESTRESSED UNITS

$f'c$ = 6,000 psi
$f'ci$ = 5,000 psi
f_{pu} = 270,00 psi (½" low relax strands)
f_{pbi} = 201,960 psi (½" low relax strands)

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

Michael D. Cummins 8-6-25

ILLINOIS STRUCTURAL NO. 4822 (Expires 11/30/26)

LICENSED STRUCTURAL ENGINEER ★ MICHAEL D. CUMMINS 4822 SPRINGFIELD ★ STATE OF ILLINOIS

GENERAL PLAN AND ELEVATION
CH 24 (2200TH ST) OVER
PRAIRIE CREEK
SECTION 22-00103-02-BR
LOGAN COUNTY
STA 15+70.10
STRUCTURE NO. 054-3046

CEC Cummins Engineering Corporation ENGINEERS & SURVEYORS	JOB = 2781	DESIGNED - EFB	REVISED -
	FILE NAME = 054-3046-0000-01-GPE.dgn	CHECKED - AAN	REVISED -
	PLOT DATE = 8/6/2025	DRAWN - EFB	REVISED -
		CHECKED - MDC	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 054-3046
SHEET 1 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	1
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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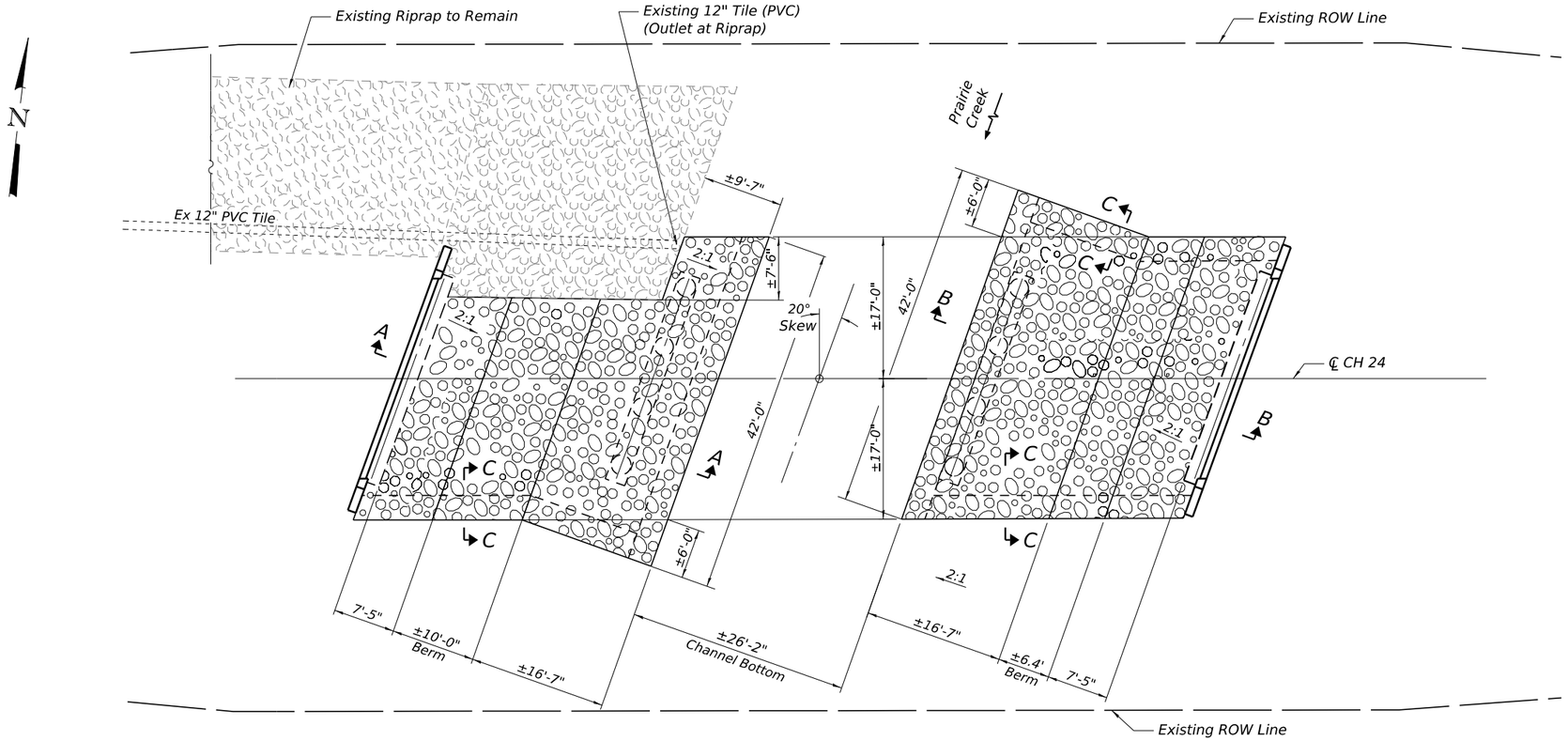
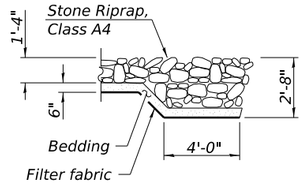




SECTION C-C

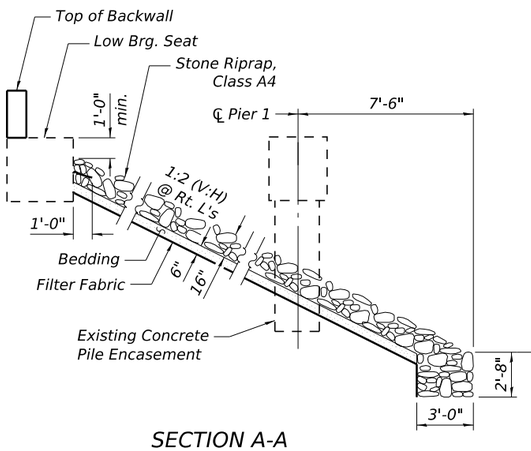
RIPRAP PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Elevation (ft.)	527.2	513.6	512.2	527.2	5

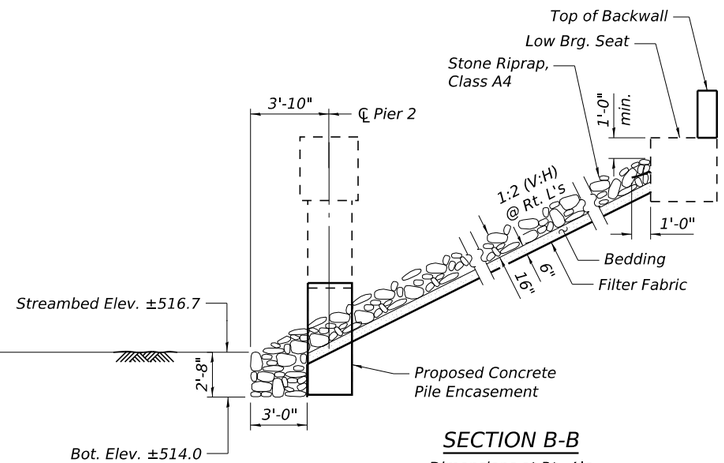
WATERWAY INFORMATION

Drainage Area	74.0 Sq. Mi.
Required Opening (15 Yr.)	3,112 Sq. Ft.
Proposed Opening (15 Yr.)	722 Sq. Ft.
Approach Opening (15 Yr.)	2,390 Sq. Ft.
Required Opening (100 Yr.)	5,011 Sq. Ft.
Proposed Opening (100 Yr.)	722 Sq. Ft.
Approach Opening (100 Yr.)	4,289 Sq. Ft.
Ex. Ovt. Discharge (2 Yr.)	2,000 C.F.S.
Created Head (2 Yr.)	0.2 Ft.
Design Discharge (15 Yr.)	5,595 C.F.S.
Created Head (15 Yr.)	0.1 Ft.
Base Discharge (100 Yr.)	9,070 C.F.S.



SECTION A-A

Dimensions at Rt. ∠'s



SECTION B-B

Dimensions at Rt. ∠'s

MODEL: Default
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CEC Cummins Engineering Corporation
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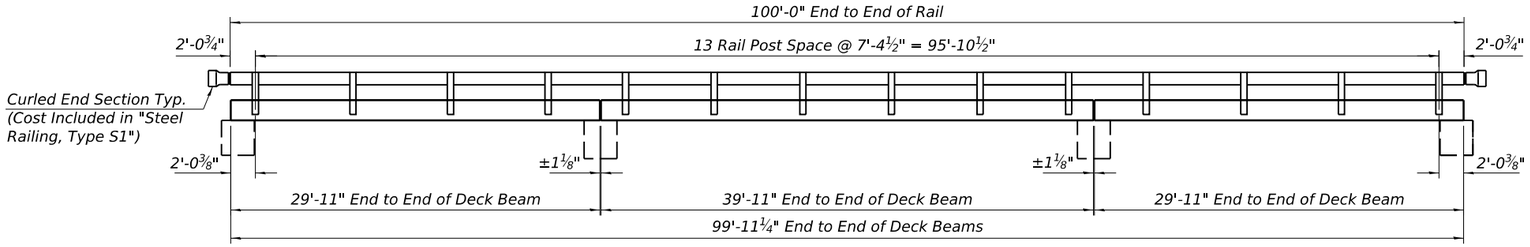
PLOT DATE = 8/6/2025	DRAWN - TSH	REVISED -	
	CHECKED - MDC	REVISED -	

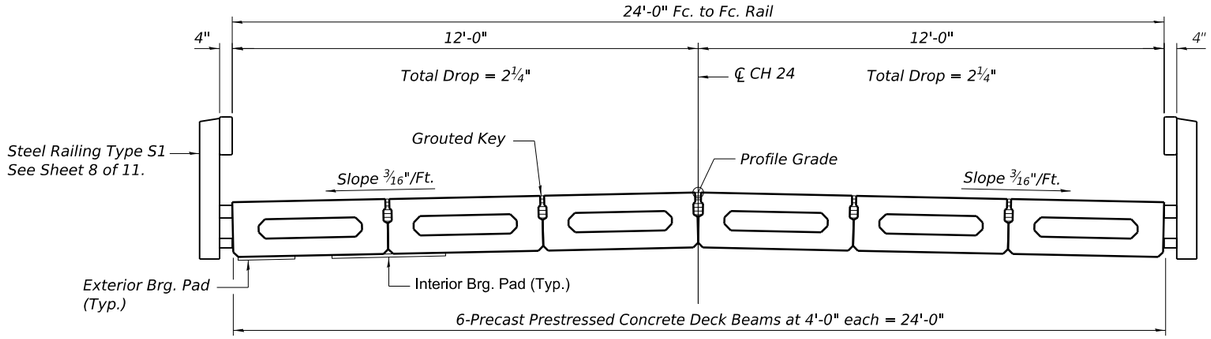
LOGAN COUNTY
CH 24 IMPROVEMENTS

RIPRAP PLAN
STRUCTURE NO. 054–3046
SHEET 2 OF 11 SHEETS

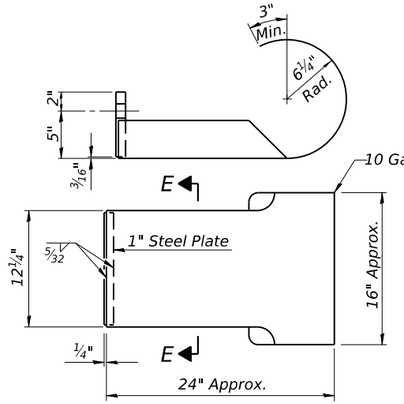
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	12
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			



RAIL ELEVATION - STEEL RAILING, TYPE S1



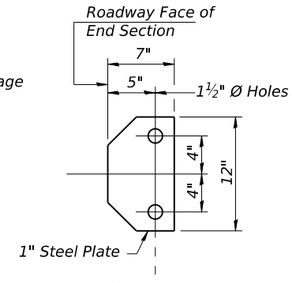
CROSS SECTION



CURLED END SECTION DETAILS

(4 Required)

Note: Curled end sections shall meet the requirements of Article 1006.34(c) of the Standard Specifications.



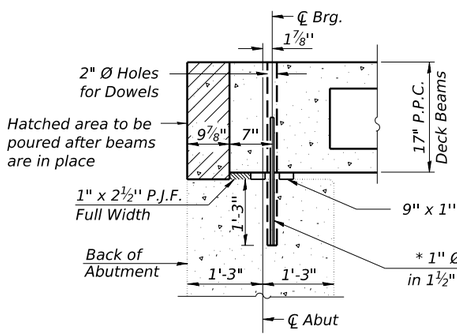
SECTION E-E

Note:

Dowel holes in new beams have been adjusted to miss existing dowel rods. Contractor shall verify location of existing dowel rods prior to fabrication of new beams.

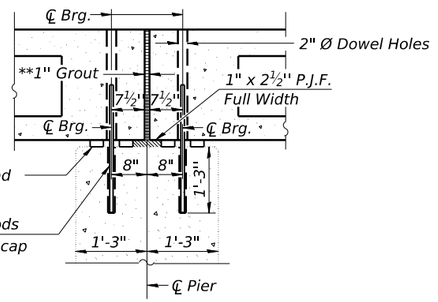
* After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

** 1" dimension may vary plus or minus to accomodate tolerance in beam lengths.



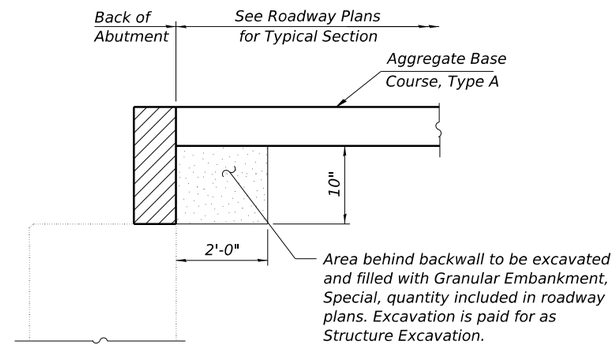
SECTION THRU ABUT.

(@ Rt. ∠ 's to Abut.)



SECTION THRU PIER

(@ Rt. ∠ 's to Pier)



BACKFILL DETAIL

Notes:

See Sheet 4 thru 7 of 11 for Superstructure.
See Sheet 8 of 11 for Steel Railing, Type S1.

MODEL: Default
FILE NAME: H:\2781 Logan Co. CH 24 Bridge Rehab\CADD\Sheets\Bridge\054-3046-0000-03-SuperDetails.dgn

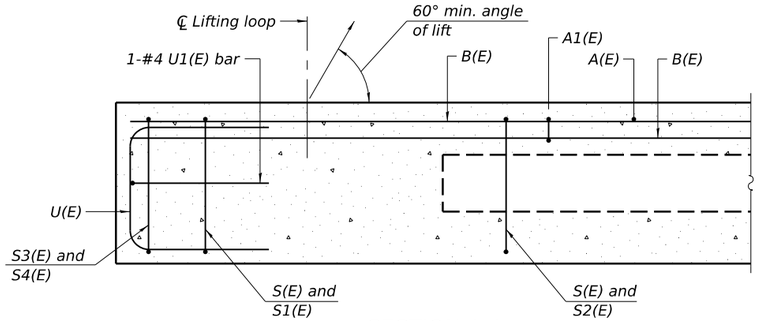
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -	
FILE NAME = 054-3046-0000-03-SuperDetails.dgn	CHECKED - AAN	REVISED -	
PLOT DATE = 8/6/2025	DRAWN - EFB	REVISED -	
	CHECKED - MDC	REVISED -	

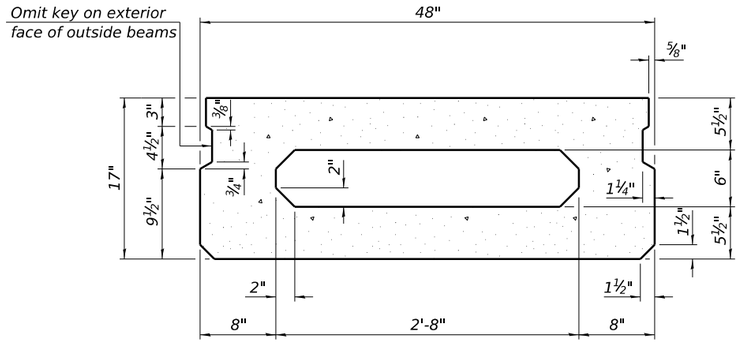
LOGAN COUNTY
CH 24 IMPROVEMENTS

SUPERSTURCTURE DETAILS
STRUCTURE NO. 054-3046
SHEET 3 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	13
		CONTRACT NO. 93846		
	ILLINOIS	FED. AID PROJECT		

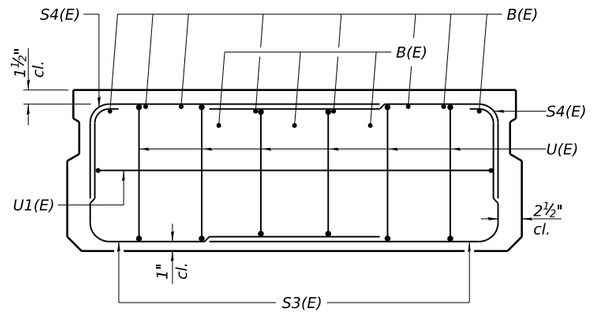


SECTION A-A

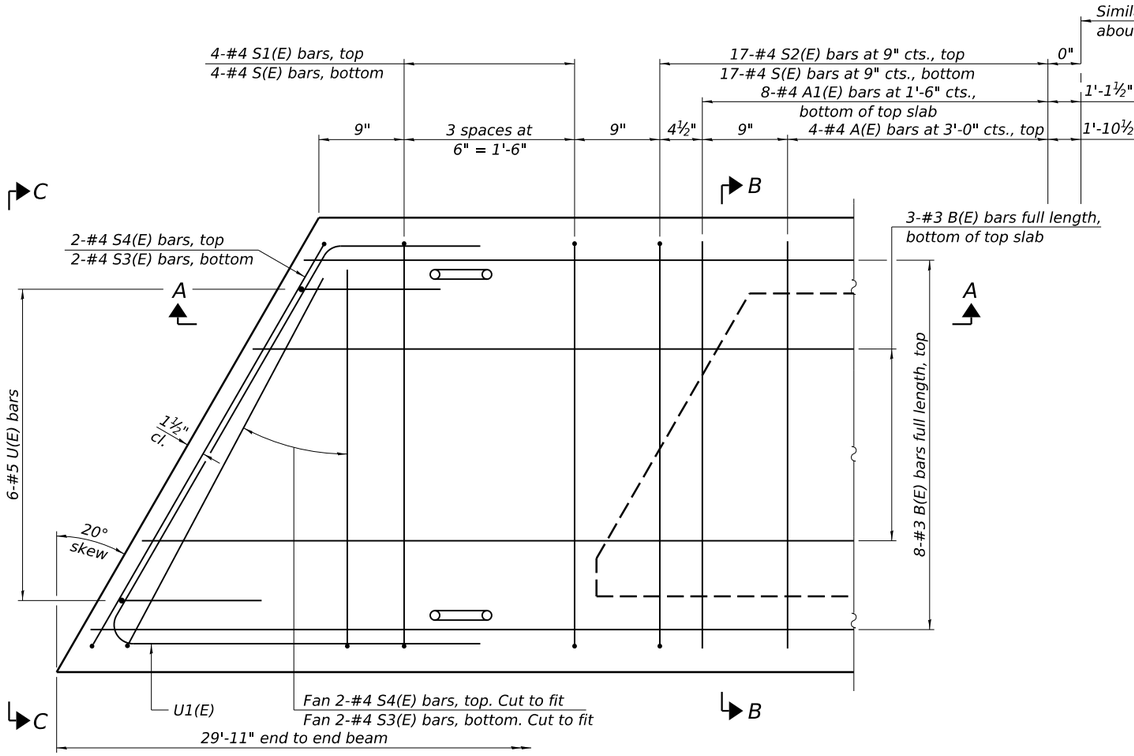


SECTION B-B

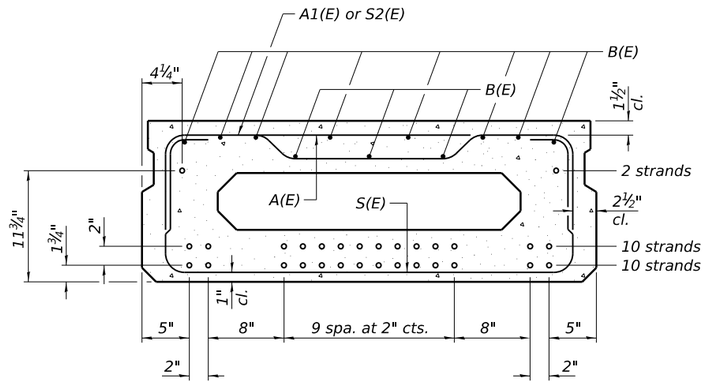
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST

ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	3'-7"	—
A1(E)	17	#4	3'-10"	⌒
B(E)	11	#3	29'-8"	—
S(E)	41	#4	6'-9"	⊔
S1(E)	8	#4	5'-3"	⊓
S2(E)	33	#4	5'-6"	⊓
S3(E)	8	#4	5'-0"	⌋
S4(E)	8	#4	4'-3"	⌋
U(E)	12	#5	3'-8"	⊏
U1(E)	2	#4	7'-6"	⊏

Note:
See sheet 5 of 11 for additional details and Bill of Material.

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

MINIMUM BAR LAP

#3 bar = 1'-6"

PD-1748-L 5-15-2023

MODEL: Default
FILE NAME: 054-3046-0000-04-07-Super.dgn

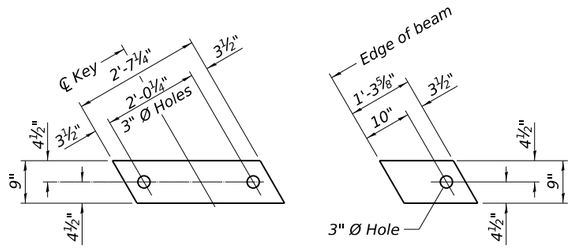
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -
FILE NAME = 054-3046-0000-04-07-Super.dgn	CHECKED - AAN	REVISED -
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

17" x 48" PPC DECK BEAM
STRUCTURE NO. 054-3046
SHEET 4 OF 11 SHEETS

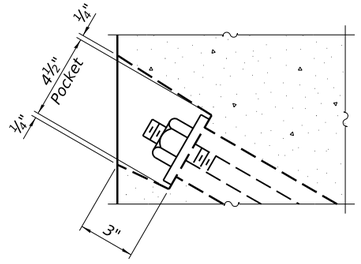
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	14
		CONTRACT NO. 93846		
	ILLINOIS	FED. AID PROJECT		



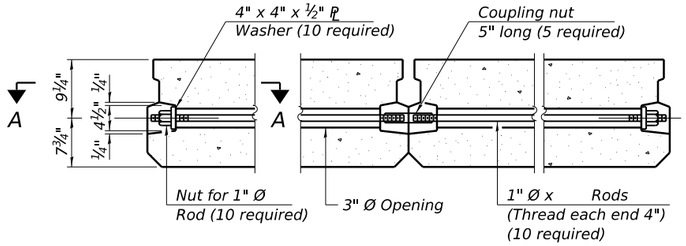
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

FIXED

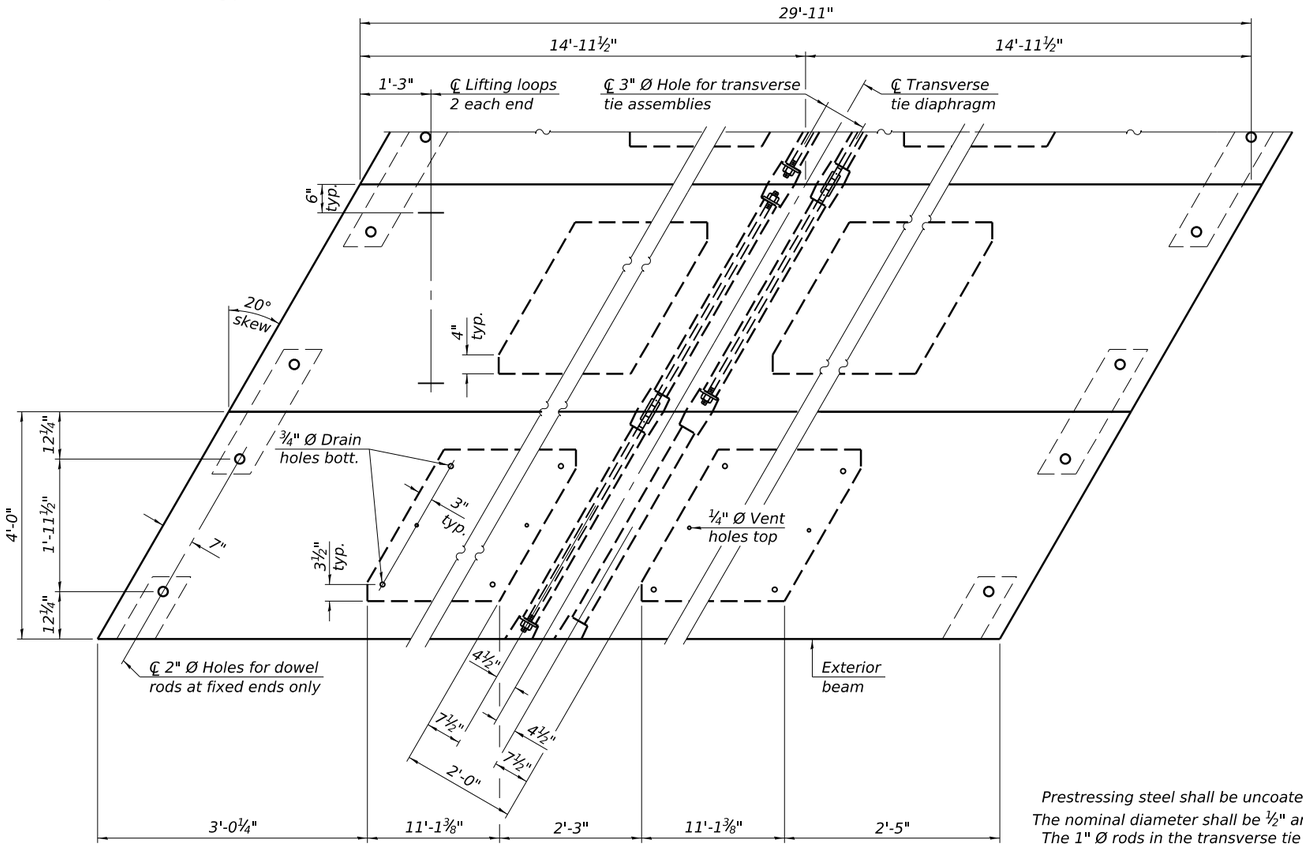


SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

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



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 ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

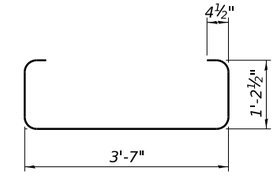
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" Ø lifting pin shall be used to engage the lifting loops during handling.

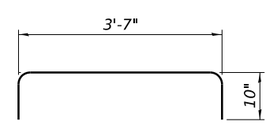
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f 'c, shall be 6000 psi.

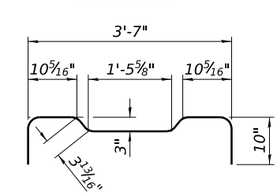
Compressive strength of prestressed concrete at release, f 'ci, shall be 5000 psi.



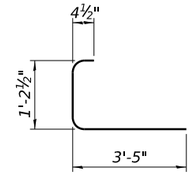
BAR S(E)



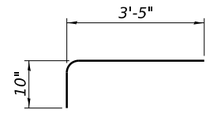
BAR S1(E)



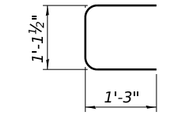
BAR S2(E)



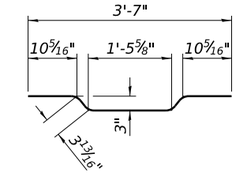
BAR S3(E)



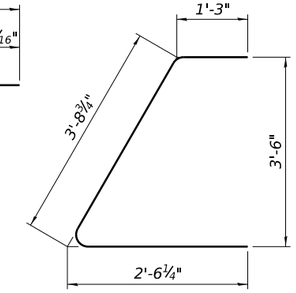
BAR S4(E)



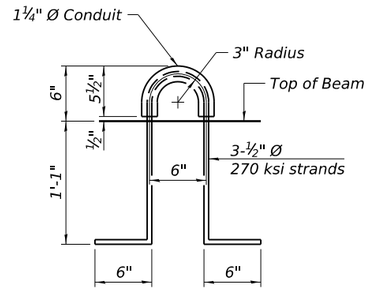
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1436

MODEL: Default
FILE NAME: 054-3046-0000-04-07-Super.dgn

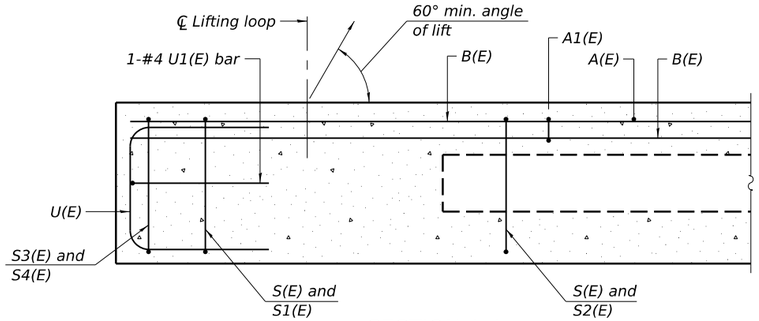
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -
FILE NAME = 054-3046-0000-04-07-Super.dgn	CHECKED - AAN	REVISED -
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

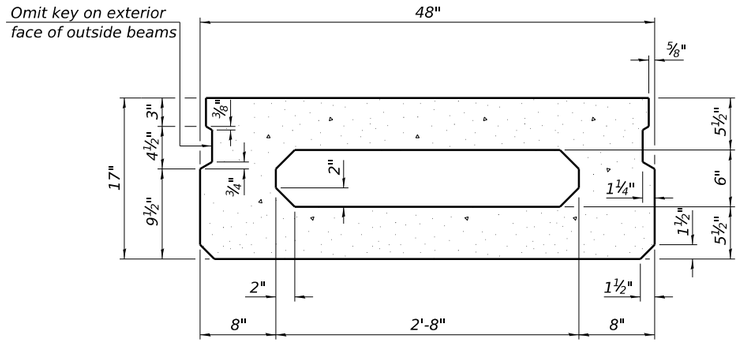
LOGAN COUNTY
CH 24 IMPROVEMENTS

17" x 48" PPC DECK BEAM
STRUCTURE NO. 054-3046
SHEET 5 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	15
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			

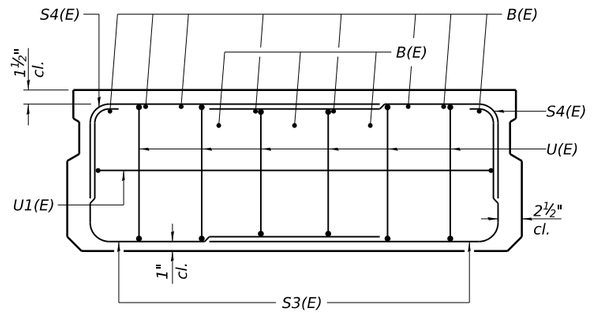


SECTION A-A

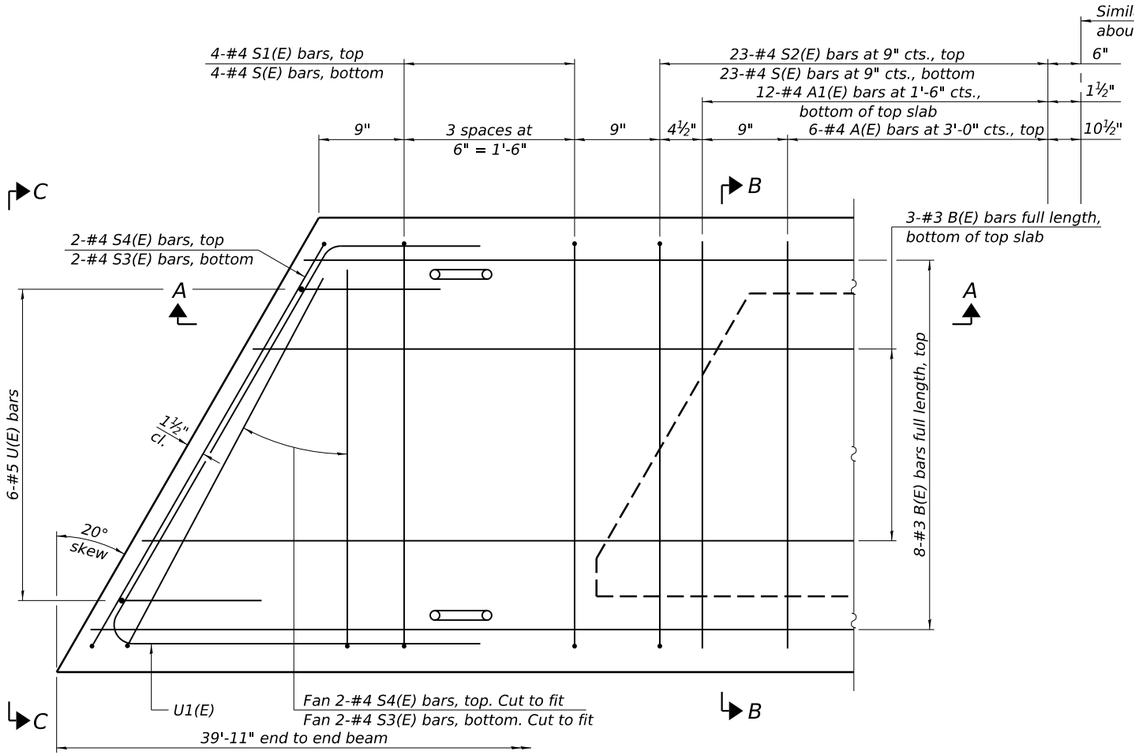


SECTION B-B

(Showing dimensions)



VIEW C-C



PLAN VIEW

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

SECTION B-B

(Showing reinforcement and permissible strand locations)

Note:
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"

BAR LIST

ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	—
A1(E)	25	#4	3'-10"	⌒
B(E)	11	#3	39'-8"	—
S(E)	55	#4	6'-9"	⊔
S1(E)	8	#4	5'-3"	⊓
S2(E)	47	#4	5'-6"	⊓
S3(E)	8	#4	5'-0"	⌋
S4(E)	8	#4	4'-3"	⌋
U(E)	12	#5	3'-8"	⊏
U1(E)	2	#4	7'-6"	⊏

Note:
See sheet 7 of 11 for additional details and Bill of Material.

PD-1748-L 5-15-2023

MODEL: Default
FILE NAME: 054-3046-0000-04-07-Super.dgn

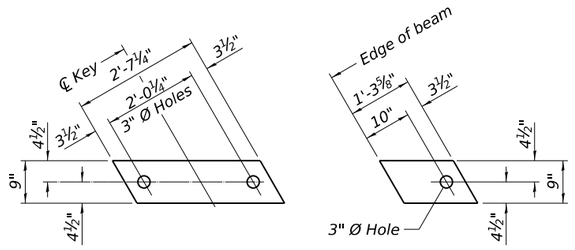
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -	
FILE NAME = 054-3046-0000-04-07-Super.dgn	CHECKED - AAN	REVISED -	
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -	
	CHECKED - MDC	REVISED -	

LOGAN COUNTY
CH 24 IMPROVEMENTS

17" x 48" PPC DECK BEAM
STRUCTURE NO. 054-3046
SHEET 6 OF 11 SHEETS

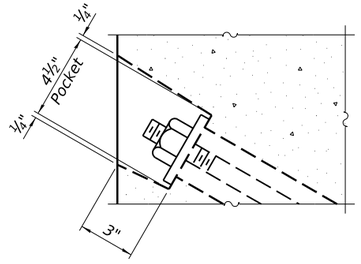
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	16
		CONTRACT NO. 93846		
	ILLINOIS	FED. AID PROJECT		



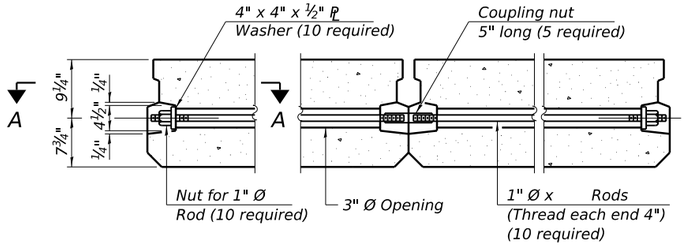
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

FIXED

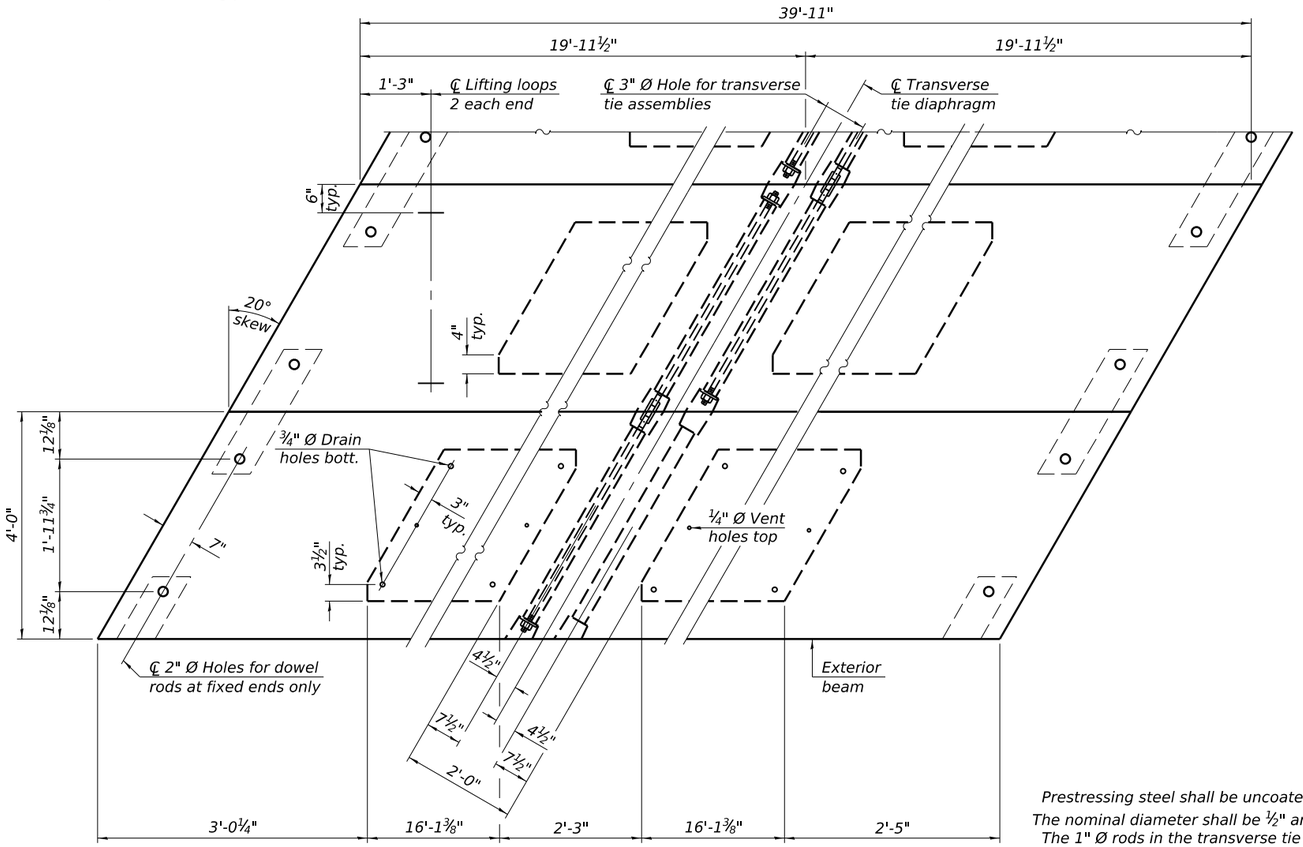


SECTION A-A



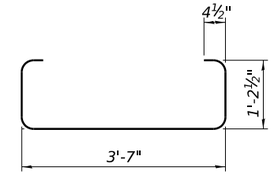
TYPICAL TRANSVERSE TIE ASSEMBLY

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

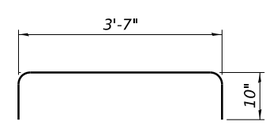


PLAN VIEW

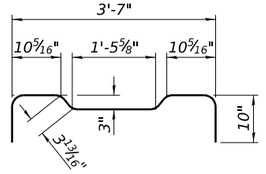
Note:
Connect beams in pairs with the transverse tie configuration shown.



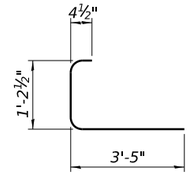
BAR S(E)



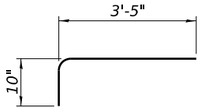
BAR S1(E)



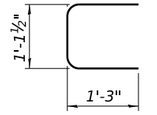
BAR S2(E)



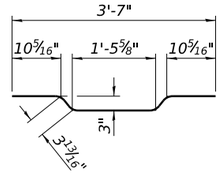
BAR S3(E)



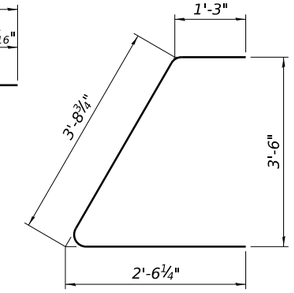
BAR S4(E)



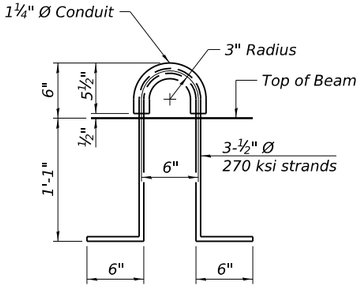
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" Ø lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f 'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f 'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	958

MODEL: Default
FILE NAME: 054-3046-0000-04-07-Super.dgn

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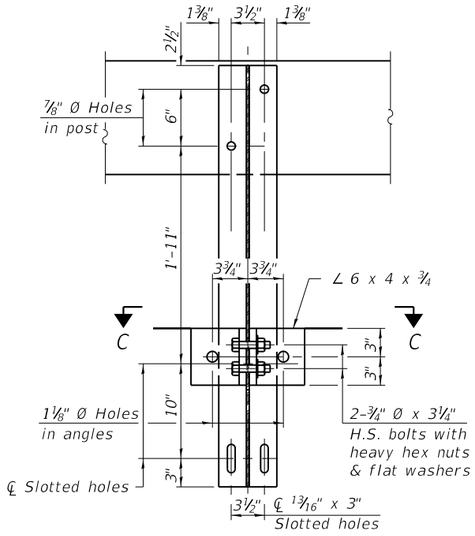
JOB = 2781	DESIGNED - EFB	REVISED -
FILE NAME = 054-3046-0000-04-07-Super.dgn	CHECKED - AAN	REVISED -
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

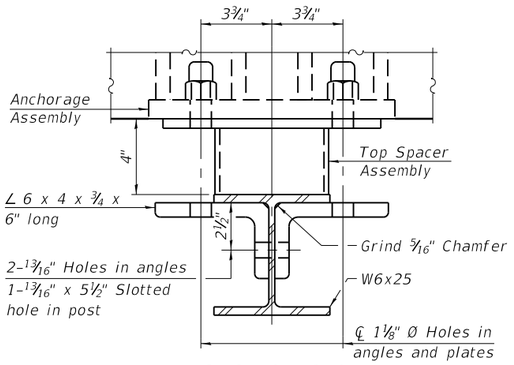
LOGAN COUNTY
CH 24 IMPROVEMENTS

17" x 48" PPC DECK BEAM
STRUCTURE NO. 054-3046
SHEET 7 OF 11 SHEETS

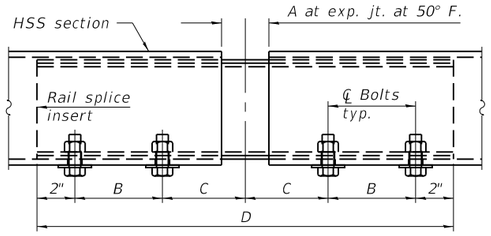
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	17
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			



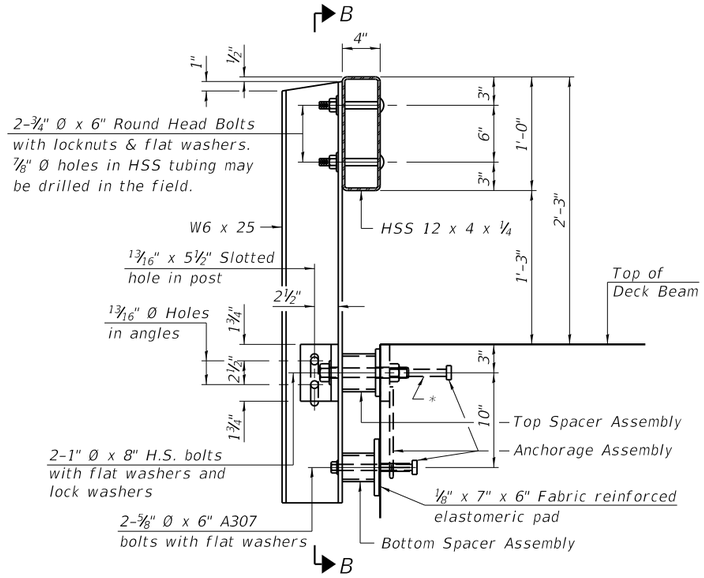
SECTION B-B



SECTION C-C



RAIL SPLICE ELEVATION

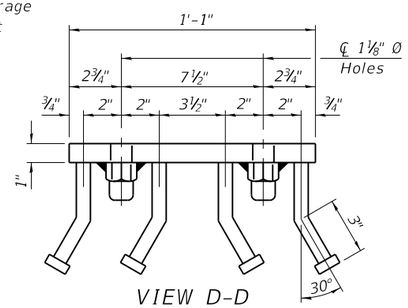


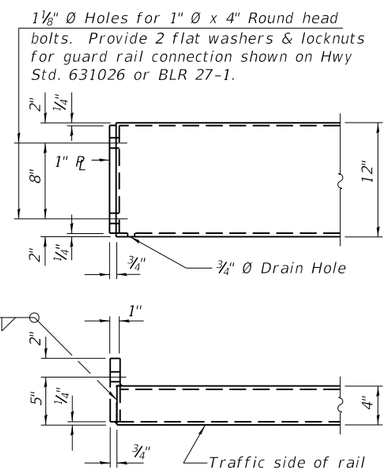
SECTION AT RAILING POST

* *The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down ½" to accommodate the top reinforcement bar placement.*

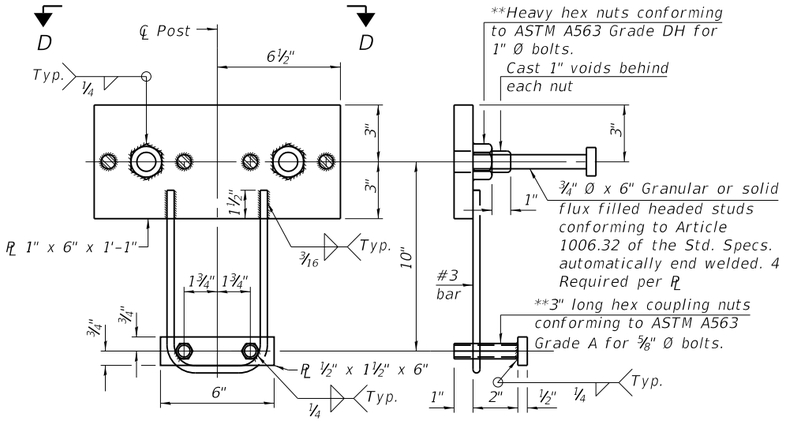
SECTION AT RAIL SPLICE

RAIL SPLICE CONNECTION AT EXPANSION JT.





END OF RAIL DETAILS



** *Heavy hex nuts conforming to ASTM A563 Grade DH for 1" Ø bolts. Cast 1" voids behind each nut*

** *Threaded areas shall be plugged or blocked off during casting of concrete.*

ANCHORAGE ASSEMBLY

Notes:

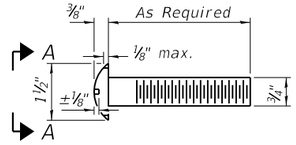
A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11½", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than ¼" (top) or ½" (bottom), longer bolts are required. Cost included with Steel Railing, Type S-1.

All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.

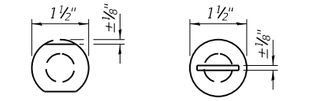
All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.

All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

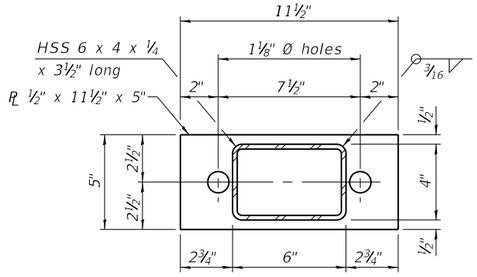


ROUND HEAD BOLT DETAIL

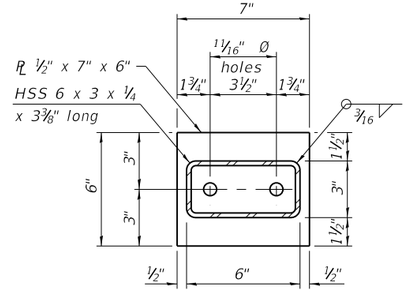


Without Slot or Recess — *With Slot (shown) or Approved Recess*

VIEW A-A



TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY

SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	¼"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2½"	4⅝"	4⅜"	1'-10"	3 1⁄16"
Over Finger or Modular Jt.	≤9½"	5½"	7⅜"	7¼"	2'-9¼"	5 13⁄16"
Over Finger or Modular Jt.	≤15"	8¼"	10⅛"	10"	3'-8¼"	8 9⁄16"

T = ; total movement along centerline of roadway at expansion joint.

RAILING CRITERIA

NCHRP 350 Test Level	2
Railing Weight (plf)	50
Max Post Spacing	10'-9"
HMA thickness range (in)	1¼ - 3⅛

R-23A 10-12-2021

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	200

MODEL: Default
FILE NAME: 054-3046-0000-08-S-1_Rail.dgn

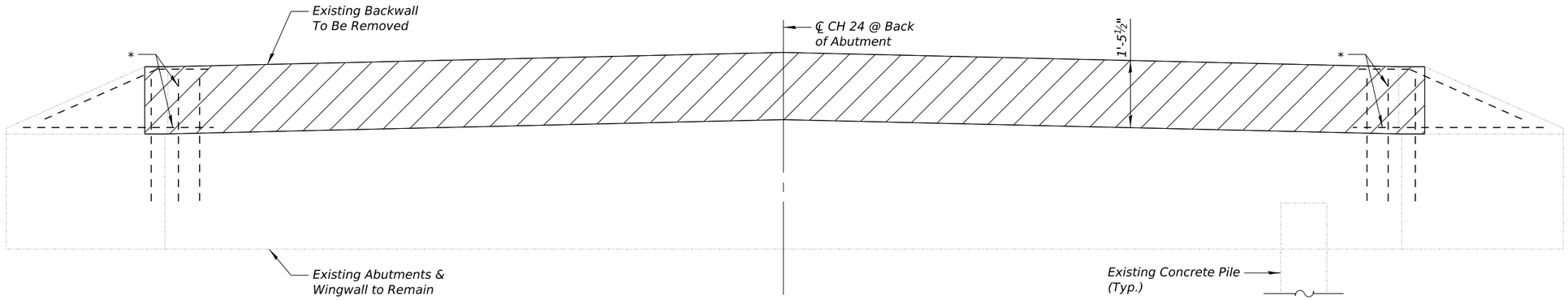
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -	
FILE NAME = 054-3046-0000-08-S-1_Rail.dgn	CHECKED - AAN	REVISED -	
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -	
	CHECKED - MDC	REVISED -	

LOGAN COUNTY
CH 24 IMPROVEMENTS

STEEL RAILING, TYPE S-1
STRUCTURE NO. 054-3046
SHEET 8 OF 11 SHEETS

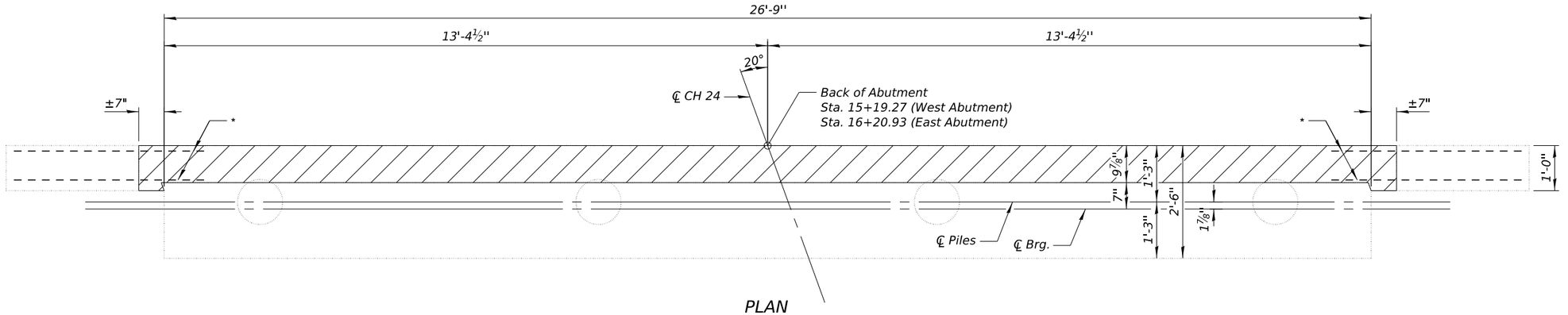
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	18
		CONTRACT NO. 93846		
		ILLINOIS FED. AID PROJECT		



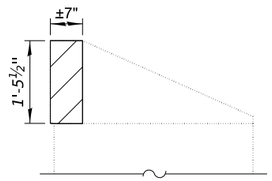
ELEVATION

(Looking West @ West Abut.)
(Looking East @ East Abut.)

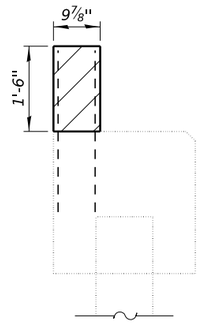
* Existing reinforcement extending into removal area shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.



PLAN



WINGWALL REMOVAL DETAIL



SECTION THRU ABUTMENT

TWO ABUTMENTS
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.5

Note:
Hatched area indicates limits of Concrete Removal.

MODEL: Default
FILE NAME: H:\2781 Logan Co. CH 24 Bridge Rehab\CADD\Sheets\Bridge\054-3046-0000-09-10-Abuts.dgn

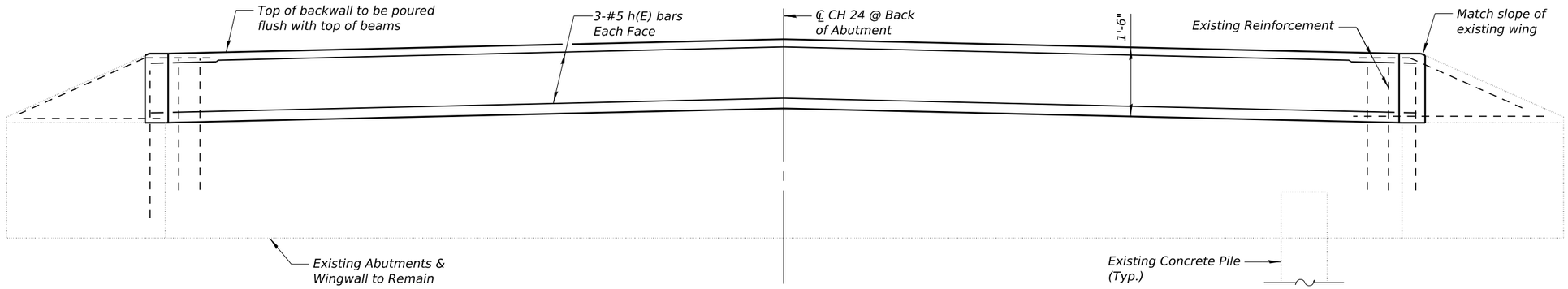
CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -	
FILE NAME = 054-3046-0000-09-10-Abuts.dgn	CHECKED - AAN	REVISED -	
PLOT DATE = 8/6/2025	DRAWN - EFB	REVISED -	
	CHECKED - MDC	REVISED -	

LOGAN COUNTY
CH 24 IMPROVEMENTS

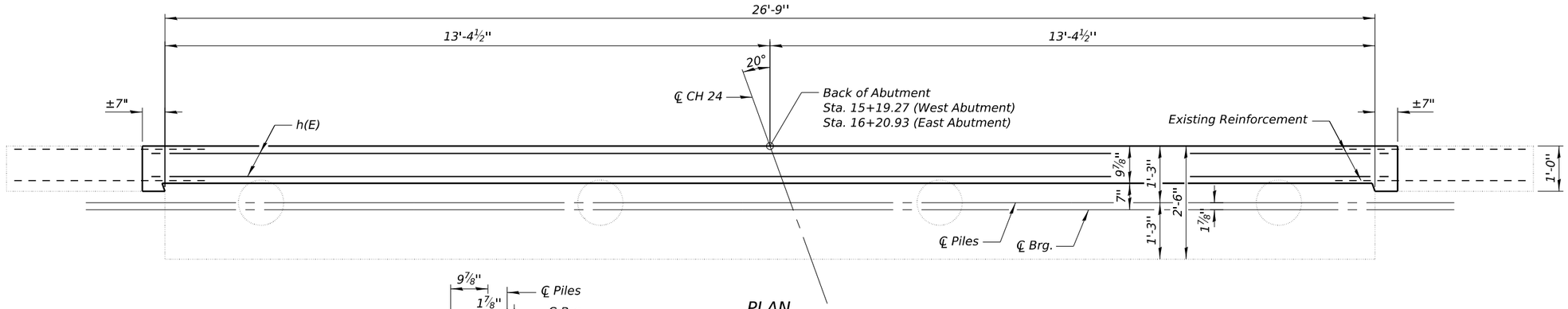
ABUTMENT CONCRETE REMOVAL
STRUCTURE NO. 054-3046
SHEET 9 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	19
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			

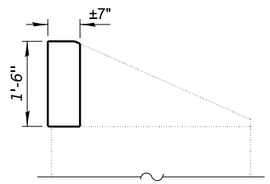


ELEVATION

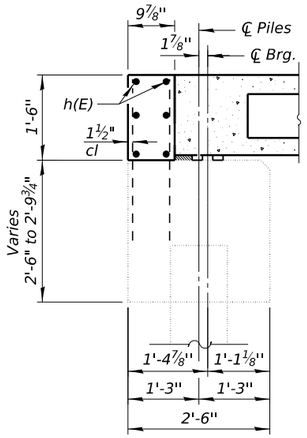
(Looking West @ West Abut.)
(Looking East @ East Abut.)



PLAN



WINGWALL DETAIL



SECTION THRU ABUTMENT

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	26'-5"	———
Reinforcement Bars, Epoxy Coated			Pound	340
Concrete Structures			Cu. Yd.	2.6

Note:
Dowel holes in new beams have been adjusted to miss existing dowel rods. Contractor shall verify location of existing dowel rods prior to fabrication of new beams.
After beams have been placed and dowel rods grouted, the backwall and portions of the wingwall shall be poured.

MODEL: Default
FILE NAME: H:\2781 Logan Co. CH 24 Bridge Rehab\CADDSheets\Bridge\054-3046-0000-09-10-Abuts.dgn

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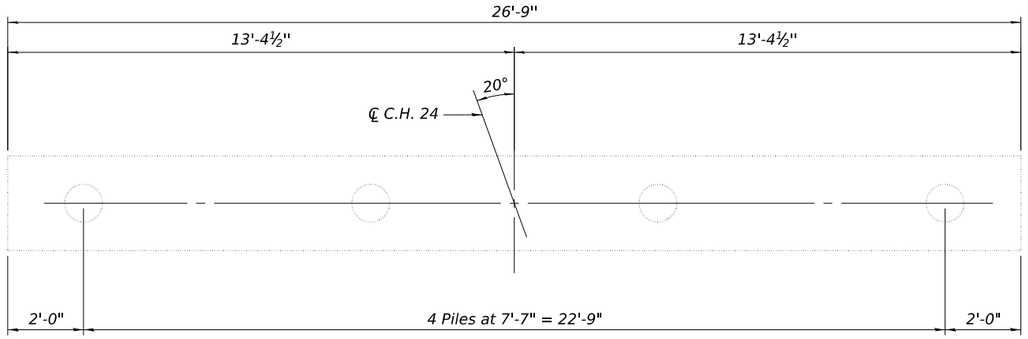
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -
FILE NAME = 054-3046-0000-09-10-Abuts.dgn	CHECKED - AAN	REVISED -
PLOT DATE = 8/6/2025	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

ABUTMENT DETAILS
STRUCTURE NO. 054-3046
SHEET 10 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	20
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			



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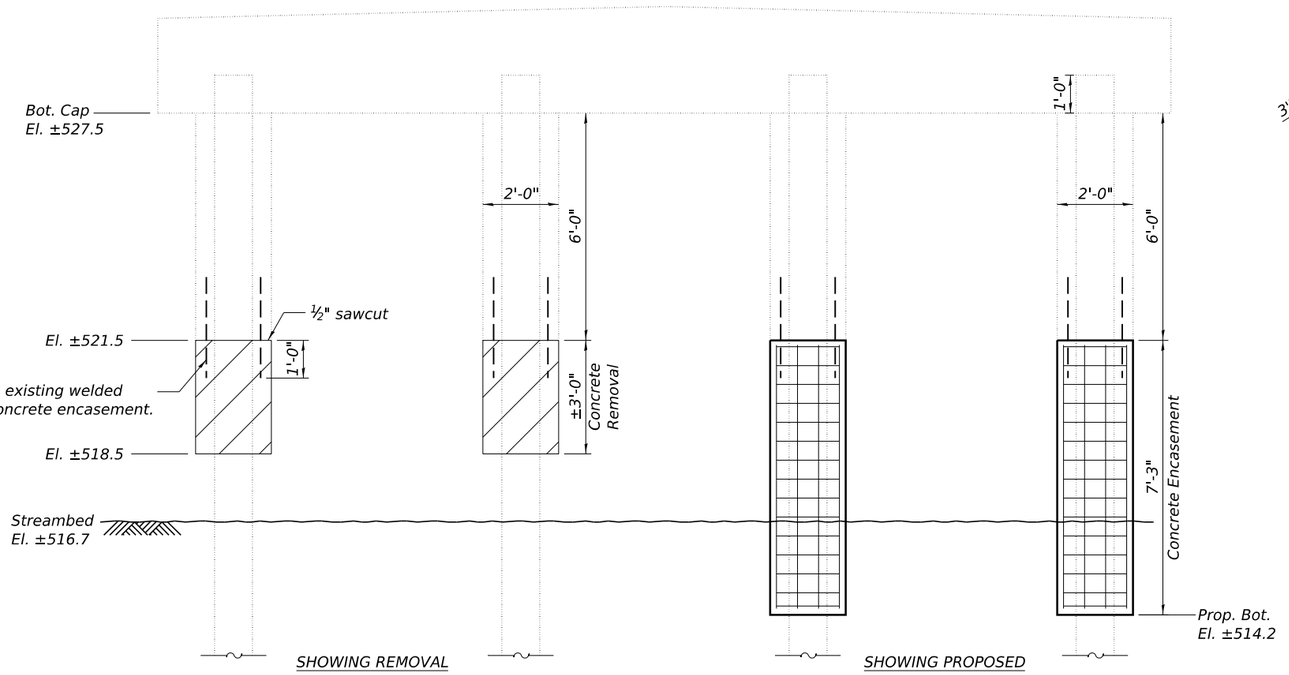
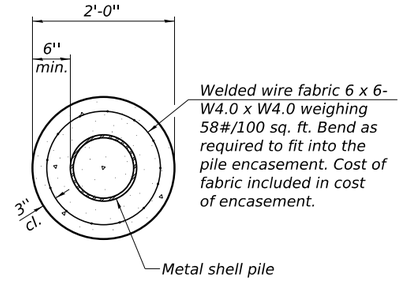
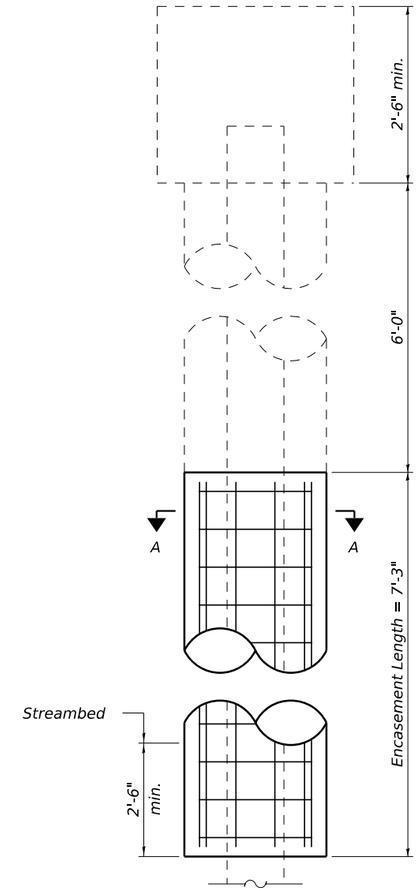


ELEVATION



SECTION A-A



SECTION THRU PIER

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	1.1
Concrete Encasement	Cu. Yd.	2.5

MODEL: Default
FILE NAME: 054-3046-0000-11-Piers.dgn

CEC Cummins Engineering Corporation
ENGINEERS & SURVEYORS

JOB = 2781	DESIGNED - EFB	REVISED -
FILE NAME = 054-3046-0000-11-Piers.dgn	CHECKED - AAN	REVISED -
PLOT DATE = 7/23/2025	DRAWN - EFB	REVISED -
	CHECKED - MDC	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

PIER 2 DETAILS
STRUCTURE NO. 054–3046
SHEET 11 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	21
		CONTRACT NO. 93846		
	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		

BRIDGE OMISSION
STA 15+19.27 TO STA 16+20.93

IMPROVEMENT BEGINS
STA 13+10.00
MATCH EXISTING

15+00.00 — C=2 F=9 — 531.39 / 530.87 — EX RIPRAP TO REMAIN — EX ROW

14+50.00 — C=3 F=20 — 530.61 / 529.09 — ADD STONE RIPRAP TO MATCH 1:3 SLOPE — EX RIPRAP TO REMAIN GRADE TO DRAIN — EX ROW

14+00.00 — C=2 F=15 — 527.81 / 529.08 — SD 525.02 — EX ROW

13+50.00 — C=5 F=3 — 527.60 / 527.97 — EX ROW

13+10.00 — C=5 F=3 AHEAD, C=0 F=0 BACK — 527.53 / 527.53 — EX ROW

1:3 -6.00% -2.00 % 1:3

530 525 520 0 10 20 30 40

MODEL: Default
FILE NAME: 2781-sht-xsec.dgn

CEC Cummins Engineering Corporation — ENGINEERS & SURVEYORS	JOB = 2781	DESIGNED - CGF	REVISED -
	FILE NAME = 2781-sht-xsec.dgn	DRAWN - CGF	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - TSH	REVISED -
	PLOT DATE = 8/6/2025	DATE - 3/20/2025	REVISED -

LOGAN COUNTY
CH 24 IMPROVEMENTS

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 13+10.00 TO STA. 15+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	22
		CONTRACT NO. 93846		
		ILLINOIS FED. AID PROJECT		

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

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

IMPROVEMENT ENDS STA 18+50.00 MATCH EXISTING

BRIDGE OMISSION STA 15+19.27 TO STA 16+20.93

18+50.00

EX ROW
527.19
527.19
C=0 F=0 AHEAD
C=3 F=3 BACK

18+00.00

EX ROW
527.10
528.82
-6.00%
-2.00 %
1:3
C=3 F=3

17+50.00

EX ROW
527.38
528.65
-6.00%
-2.00 %
1:3
SD
525.61
C=0 F=12

17+00.00

EX ROW
528.38
530.28
-6.00%
-2.00 %
1:3
SD
525.46
SD
525.37
C=5 F=28

16+50.00

EX ROW
530.34
531.30
-6.00%
-2.00 %
1:3
SD
525.31
SD
525.22
C=9 F=22

MODEL: Default
FILE NAME: H:\2781 Logan Co. CH 24 Bridge Rehab\CADD\Sheets\2781-sht-xsec.dgn

CEC Cummins Engineering Corporation — ENGINEERS & SURVEYORS				
JOB = 2781	DESIGNED - CGF	REVISED -	LOGAN COUNTY CH 24 IMPROVEMENTS	CROSS SECTIONS
FILE NAME = 2781-sht-xsec.dgn	DRAWN - CGF	REVISED -		
PLOT SCALE = 10.0000 ' / in.	CHECKED - TSH	REVISED -		SCALE: SHEET OF SHEETS STA. 16+50.00 TO STA. 18+50.00
PLOT DATE = 8/1/2025	DATE - 3/20/2025	REVISED -		

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	22-00103-02-BR	LOGAN	23	23
		CONTRACT NO. 93846		
	ILLINOIS FED. AID PROJECT			