


03-07-2025 LETTING ITEM 188

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 LOCAL BRIDGE FORMULA
 PROGRAM**
 CITY OF OGLESBY
**FAU 6093 (WALNUT STREET) OVER RAILROAD
 SECTION 20-00821-00-BR
 LASALLE COUNTY
 PROJECT 4J4M (719)
 C-93-006-25**

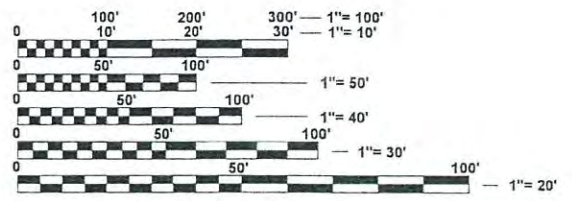
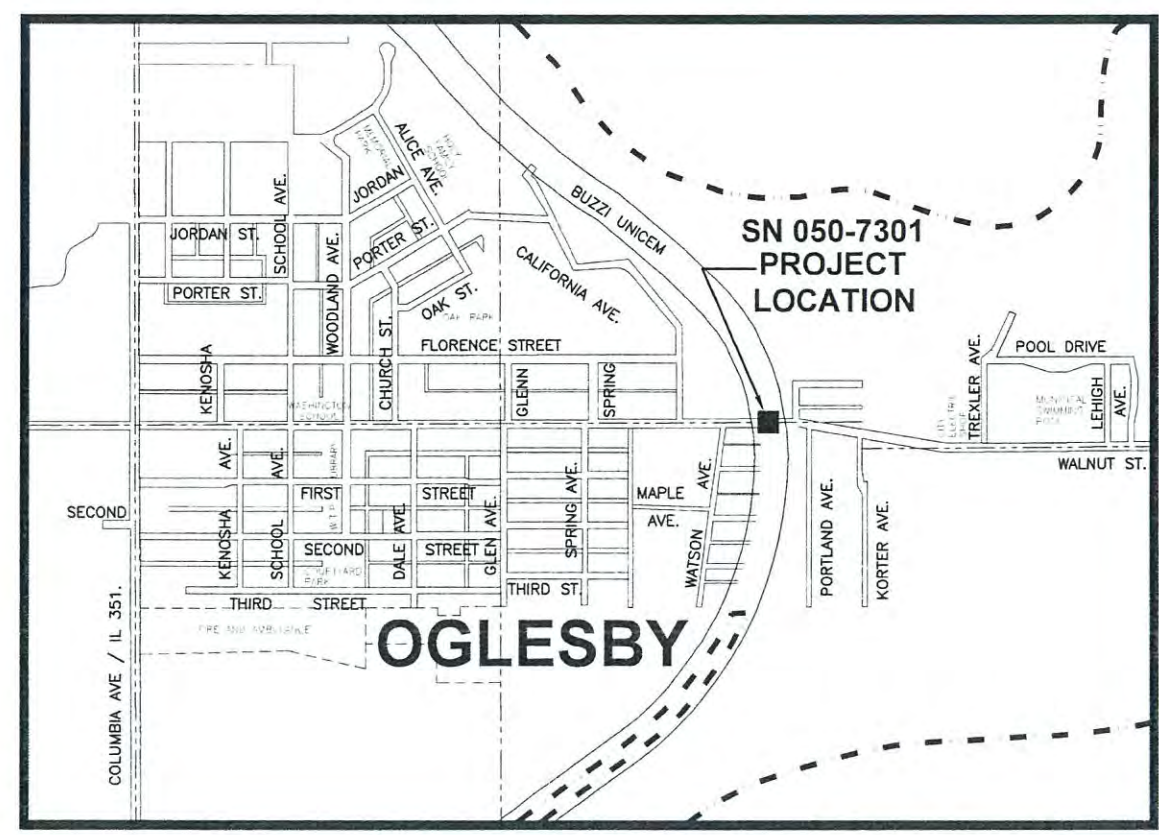
SEE SHEET 2 FOR INDEX OF SHEETS

F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6093	20-38821-00-BR	LASALLE	43	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 87852		



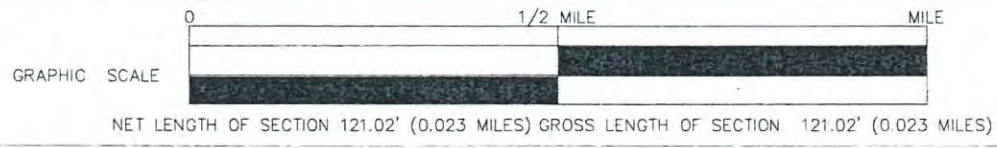
LOCATION OF SECTION INDICATED THUS: 

WALNUT STREET
 FUNCTION CLASSIFICATION: MINOR ARTERIAL
 ADT= 1600 (2020)
 POSTED SPEED 25 MPH
 DESIGN SPEED 25 MPH
 ADT= 1616 (2046)



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



JAMES K CLINARD
 CHAMLIN & ASSOCIATES
 815.223.3344

CONTRACT 87852

TOWNSHIP SECTION 20-38821-00-BR LASALLE COUNTY SECTION: ROUTE:

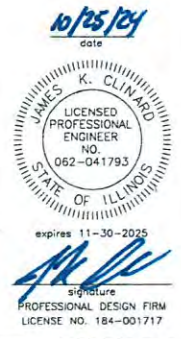
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED *Oct 25 2024* COUNTY ENGINEER

APPROVED *OCT 25 2024* MAYOR, CITY OF OGLESBY

PASSED *November 8, 2024* DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER

RELEASED FOR BID BASED ON LIMITED REVIEW *November 8, 2024* REGION 2 ENGINEER



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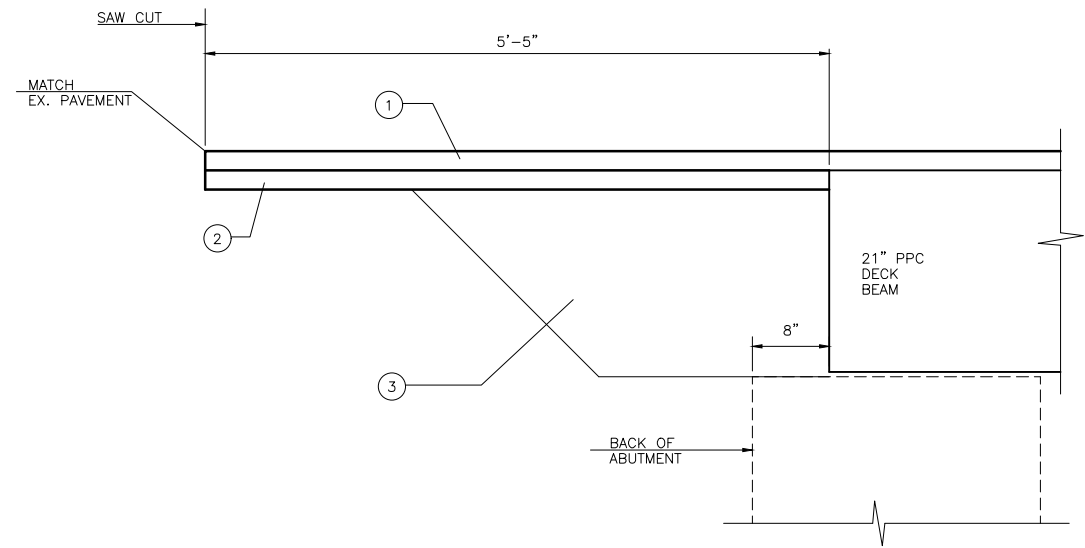
CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\j1111489-DD-Walnut Street Bridge Superstructure Replacement\CAD\002-GENERAL NOTES AND TYPICAL SECTIONS.dwg
 Last Modified: Wednesday, February 05, 2025 8:35:40 AM
 Plotted On: Wednesday, February 05, 2025 8:43:51 AM
 by Jim Chiarad

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND TYPICAL SECTION
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- 6 SCHEDULE OF QUANTITIES
- 7 PLAN & PROFILE
- 8-10 STAGE CONSTRUCTION AND TRAFFIC CONTROL PLANS
- 11-42 BRIDGE PLANS
- 43 DETAILS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 515001-04 NAME PLATE FOR BRIDGES
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701316-14 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR
- 701321-19 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-10 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS



TYPICAL SECTION AT END OF DECK

LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C" N50 1 1/2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 2 1/2"
- ③ AGGREGATE BASE COURSE, TYPE A

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA	HMA
	BINDER	SURFACE
BINDER GRADE (PG):	PG70-28	PG70-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 19.0	IL-9.5
(MIXTURE GRADATION)		
FRICITION AGGREGATE:		MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA
SUBLOT SIZE:	NA	NA
DENSITY TEST METHOD:	NUCLEAR	NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO

GENERAL NOTES

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:


GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN

COMMITMENTS

NO WORK SHALL BE DONE OVER THE RAILROAD BETWEEN JANUARY 1 AND MARCH 31.

"CONTRACT NO. 87852

DRAWN BY: JJW	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				


 PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

INDEX OF SHEETS
GENERAL NOTES AND TYPICAL SECTION

CONSTRUCTION PLANS	CURRENT AS OF: 2/7/2025	
	SCALE: AS NOTED	SHEET 2
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE 0013 050-7301
35100100	AGGREGATE BASE COURSE, TYPE A	TON	27	27
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	70	70
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	172	172
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	4.4	4.4
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	39	39
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	59	59
44000100	PAVEMENT REMOVAL	SQ YD	32	32
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	22	22
44000600	SIDEWALK REMOVAL	SQ FT	59	59
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	23.9	23.9
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3961	3961
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1350	1350
* 50901720	BICYCLE RAILING	FOOT	109	109

* SPECIALTY ITEM

"CONTRACT NO. 87852

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 Drawing Name: C:\Users\11111489-00-Walnut Street Bridge Substructure Rehabilitation\CAD\003-005-500.dwg
 Last Modified: Wednesday, November 13, 2024 11:16:44 AM
 Plotted On: Wednesday, February 04, 2025 9:27:07 AM
 by: Jim Conrad

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CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION
DATE: 01/2024				



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OTTAWA MENDOTA
ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

SUMMARY OF QUANTITIES

CONSTRUCTION
PLANS

CURRENT AS OF: 2/7/2025	
SCALE: AS NOTED	SHEET 3
FILE NO.: 111489.00 Y-	OF 43


CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE 0013 050-7301
51500100	NAME PLATES	EACH	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	37	37
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	368	368
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1102	1102
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	22	22
67100100	MOBILIZATION	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	425	425
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	212.5	212.5
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	60	60
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

* SPECIALTY ITEM

"CONTRACT NO. 87852

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 by Jim Clarend

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DATE: 01/2024			



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 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

SUMMARY OF QUANTITIES

CONSTRUCTION PLANS

CURRENT AS OF: 2/7/2025	
SCALE: AS NOTED	SHEET 4
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE 0013 050-7301
* Z0007124	STEEL RAILING (SPECIAL)	FOOT	108	108
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

* SPECIALTY ITEM

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DATE: 01/2024				



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SECTION 20-00821-00-BR
LASALLE COUNTY

SUMMARY OF QUANTITIES

CONSTRUCTION
PLANS

CURRENT AS OF: 2/7/2025	
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REMOVAL SCHEDULE			
LOCATION	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL
	SQ YD	FOOT	SQ FT
STA 5+82.25 TO WEST END OF DECK	15.6	10.8	30
EAST END OF DECK TO STA 7+03.27	15.6	10.8	28.9
TOTAL	31.2	21.6	58.9

PAVING SCHEDULE					
LOCATION	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL- 9.5, MIX "C",N50	AGGREGATE BASE COURSE, TYPE A
	POUND	POUND	TON	TON	TON
STA 5+81 TO WEST END OF DECK	35	---	2.2	---	13.5
STA 5+81 TO STA 7+02.02	---	172	---	39	---
EAST END OF DECK TO STA 7+02.02	35	---	2.2	---	13.5
TOTAL	70	172	4.4	39	27

TEMPORARY BRIDGE TRAFFIC SIGNAL SCHEDULE	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STAGE I & II	1
TOTAL	1

SIDEWALK SCHEDULE	
LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH
	SQ FT
STA 5+82.25 TO WEST END OF DECK	30
EAST END OF DECK TO STA 7+03.27	28.9
TOTAL	58.9

TEMPORARY CONCRETE BARRIER SCHEDULE				
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2
	FOOT	FOOT		
STAGE I				
STA 5+51.52 TO STA 7+26.52	175	---	---	---
STA 5+14.86 TO STA 7+63.73	250	---	2	---
STAGE II				
STA 5+26.71 TO STA 7+37.91	---	212.5	---	2
TOTAL	425	212.5	2	2

CURB AND GUTTER SCHEDULE	
LOCATION	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
	FOOT
STA 5+82.25 TO WEST END OF DECK	11
EAST END OF DECK TO STA 7+03.27	11
TOTAL	22

PAVEMENT MARKING SCHEDULE	
LOCATION	PAINT PAVEMENT MARKING - LINE 4"
	FOOT
STA 5+82.25 TO STA 7+03.27 (10' /40' - 2 APPLICATIONS)	60
TOTAL	60

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Drawing Name: G:\Users\11111489-JD-Walnut Street Bridge Superstructure Replacement\CAD\006-SCHEDULES.dwg Last Modified: Monday, October 21, 2024 3:05:51 PM Plotted On: Wednesday, February 05, 2025 9:13:59 AM by Jim Chiod

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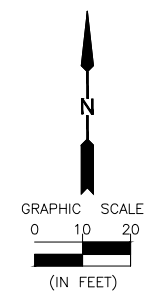
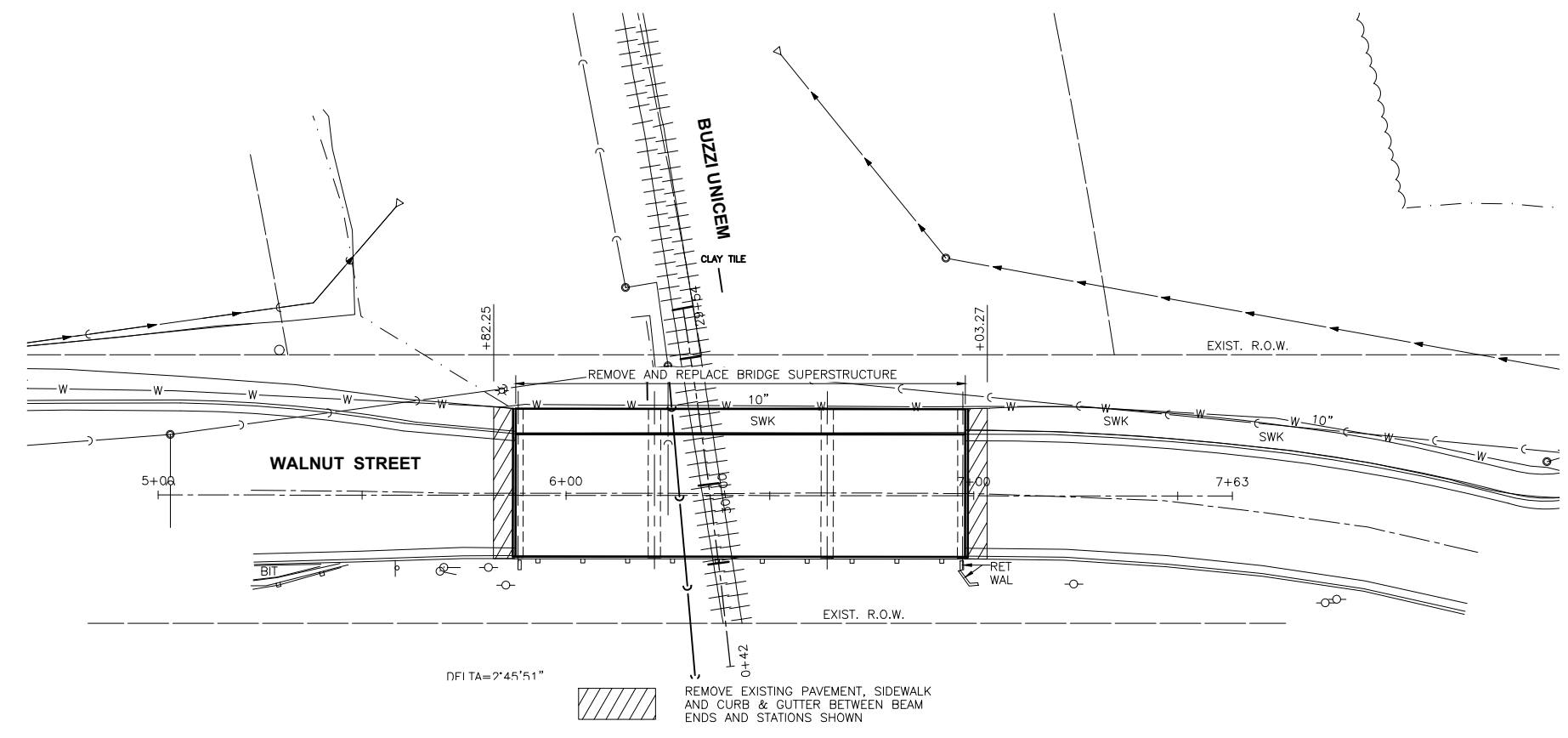
**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

SCHEDULE OF QUANTITIES

**CONSTRUCTION
PLANS**

CURRENT AS OF: 2/7/2025	
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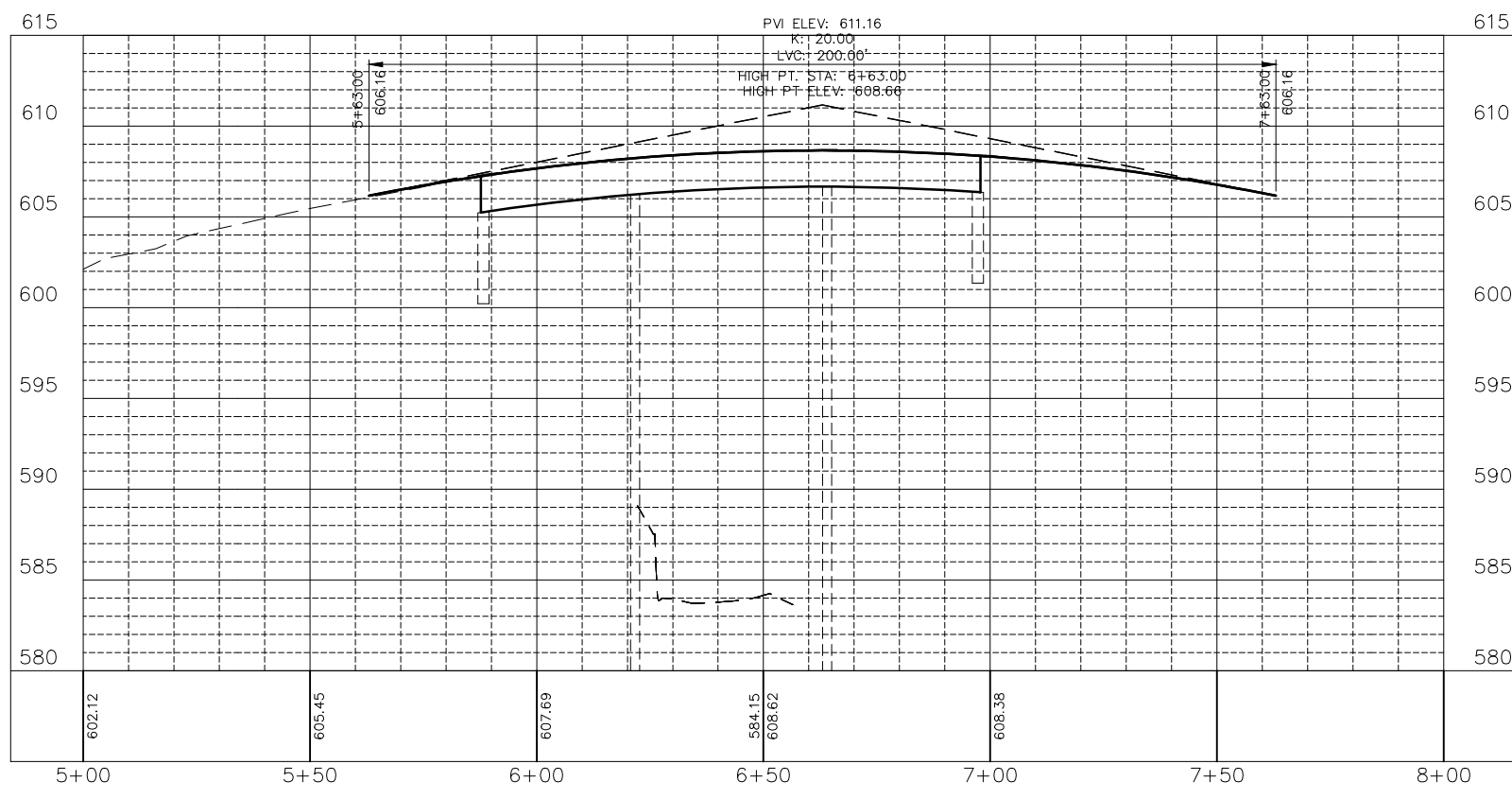
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 Plotted On: Wednesday, February 05, 2025 9:08:57 AM by Jim Chiodo



- BM #1
RAILROAD SPIKE IN POWER POLE
FACING NORTH AT S.E. CORNER
OF PORTLAND AVE. AND E. WALNUT ST.
INTERSECTION
ELEV.= 601.13

- BM #2
RAILROAD SPIKE IN FIRST POWER
POLE EAST OF PORTLAND AVE.,
SOUTH SIDE OF WALNUT ST.
ELEV.= 600.51

- BM #10
CHISELED "X" ON TOP BOLT OF
FIRST FIRE HYDRANT WEST OF
KASAP'S BAR
ELEV. 602.30



PROPOSED PROFILE HAS BEEN SHOWN FOR INFORMATION PURPOSES ONLY. THE INTENT IS FOR PROPOSED PROFILE TO MATCH EXISTING

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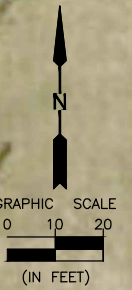
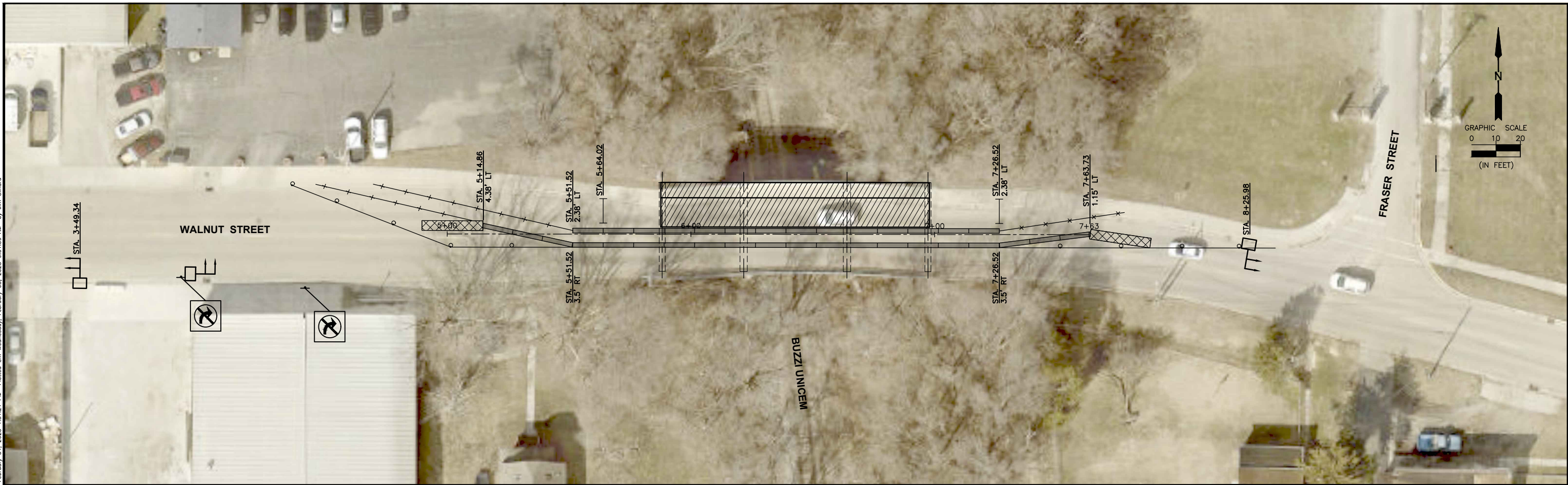

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WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

PLAN AND PROFILE

CONSTRUCTION PLANS
 CURRENT AS OF: 2/7/2025
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 Last Modified: Tuesday, February 04, 2025 1:31:21 PM
 Plotted On: Wednesday, February 05, 2025 9:01:39 AM
 by Jim Clarend



ADVANCE WARNING SIGN PLACEMENT (STAGES I-III)

- 50' IN ADVANCE OF TEMPORARY SIGNAL OR AS DIRECTED BY THE ENGINEER
R10-6A-2430 "STOP HERE ON RED"

- 250' IN ADVANCE OF TEMPORARY SIGNAL OR AS DIRECTED BY THE ENGINEER
W3-3(0)-48

- 450' IN ADVANCE OF TEMPORARY SIGNAL OR AS DIRECTED BY THE ENGINEER
W20-4(0)-48 "ONE LANE ROAD AHEAD"

- 650' IN ADVANCE OF TEMPORARY SIGNAL OR AS DIRECTED BY THE ENGINEER
W12-1102(0)-48 9'-0"

- 850' IN ADVANCE OF TEMPORARY SIGNAL OR AS DIRECTED BY THE ENGINEER
W20-1103(0)-48 "ROAD CONSTRUCTION AHEAD"

- EASTBOUND NEAR IL 351 AND SOUTHBOUND ON ED HAND HIGHWAY AT IL 71
AS DIRECTED BY THE ENGINEER
W12-1102(0)-48 AND W12-1101(0) "ONE MILE AHEAD" & "1.5 MILES AHEAD"

LEGEND

- TRAILER MOUNTED TEMPORARY TRAFFIC SIGNALS WITH MICROWAVE DETECTORS SEE SPECIAL PROVISIONS

- WORK AREA

- TYPE III BARRICADE

- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS SEE STANDARDS 704001 AND 782006

- FLEXIBLE DELINEATORS AT 10' OC

- DRUMS AT 25' OC

- DRUMS AT 25' OC WITH STEADY BURNING BI-DIRECTIONAL LIGHT

- IMPACT ATTENUATOR

SEE SHEETS 15 - 18 FOR ADDITIONAL DETAILS

ALL ORANGE SHEETED SIGNS SHALL BE FLUORESCENT ORANGE

CONTRACT NO. 87852

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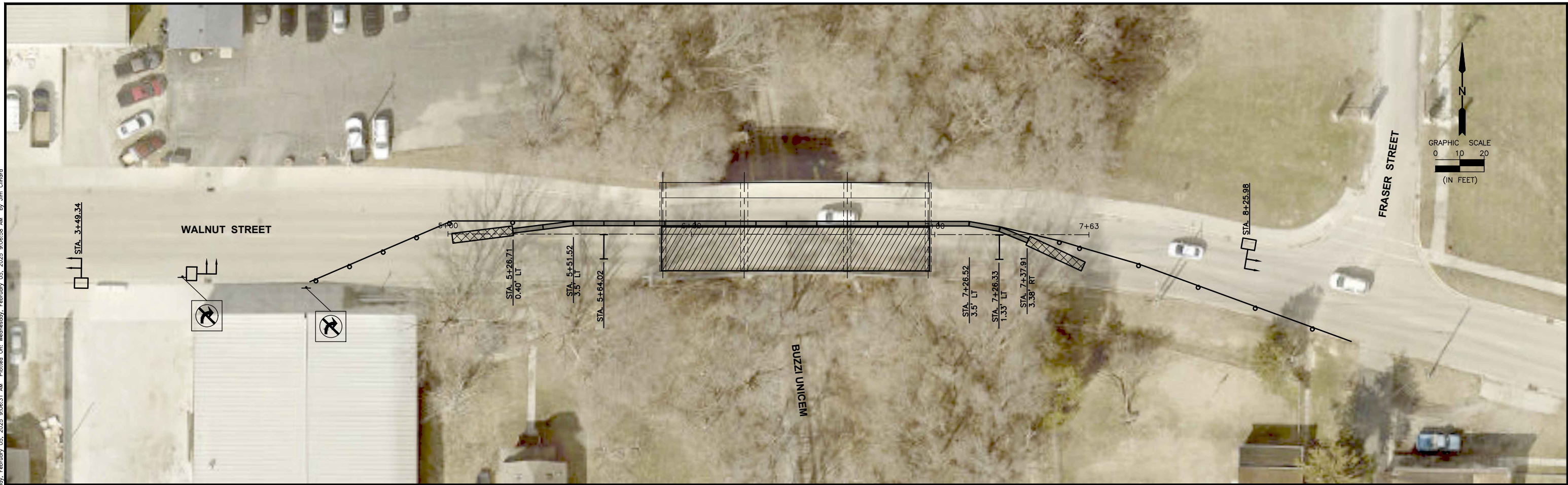
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

STAGE I
STAGE CONSTRUCTION &
TRAFFIC CONTROL

CONSTRUCTION
PLANS









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SEE SHEETS 15 - 18 FOR ADDITIONAL DETAILS

LEGEND

-  TRAILER MOUNTED TEMPORARY TRAFFIC SIGNALS WITH MICROWAVE DETECTORS SEE SPECIAL PROVISIONS
-  WORK AREA
-  TYPE III BARRICADE
-  TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS SEE STANDARDS 704001 AND 782006
-  FLEXIBLE DELINEATORS AT 10' OC
-  DRUMS AT 25' OC
-  DRUMS AT 25' OC WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATOR

ALL ORANGE SHEETED SIGNS SHALL BE FLUORESCENT ORANGE

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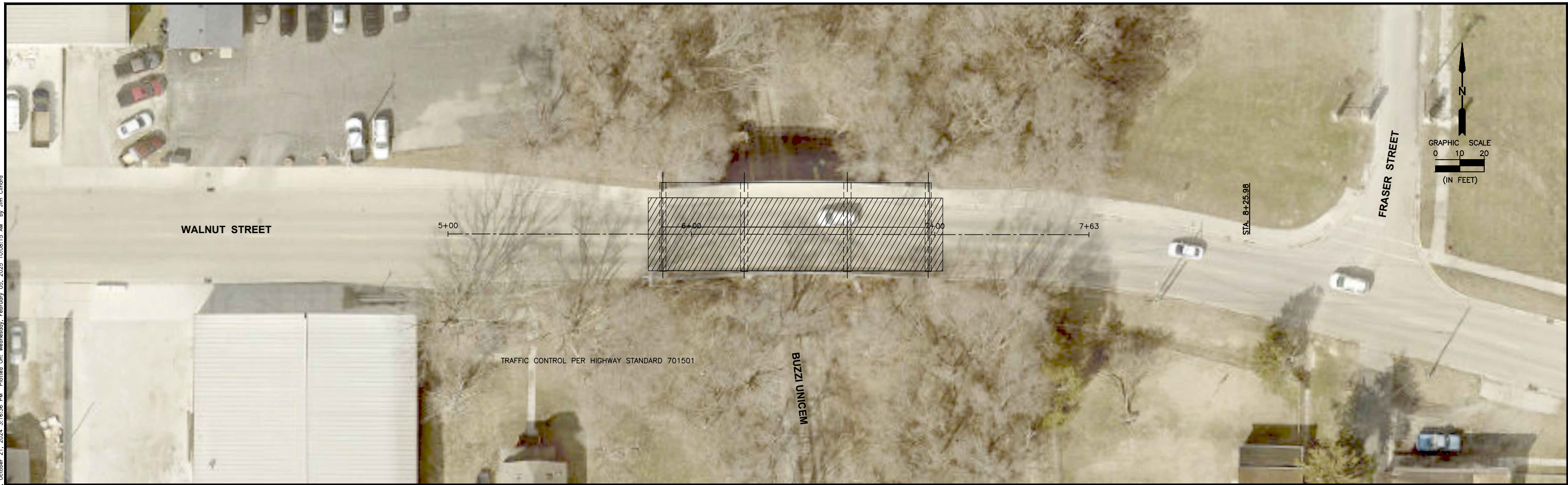
**WALNUT STREET BRIDGE
 SECTION 20-00821-00-BR
 LASALLE COUNTY**

**STAGE II
 STAGE CONSTRUCTION &
 TRAFFIC CONTROL**

**CONSTRUCTION
 PLANS**









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SEE SHEETS 15 - 18 FOR ADDITIONAL DETAILS

LEGEND

-  TRAILER MOUNTED TEMPORARY TRAFFIC SIGNALS WITH MICROWAVE DETECTORS SEE SPECIAL PROVISIONS
-  WORK AREA
-  TYPE III BARRICADE
-  TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS SEE STANDARDS 704001 AND 782006
-  FLEXIBLE DELINEATORS AT 10' OC
-  DRUMS AT 25' OC
-  DRUMS AT 25' OC WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATOR

ALL ORANGE SHEETED SIGNS SHALL BE FLUORESCENT ORANGE

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LEVEL	BY	DATE	REVISIONS	
			DESCRIPTION	



PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

STAGE III
STAGE CONSTRUCTION &
TRAFFIC CONTROL

CONSTRUCTION
PLANS

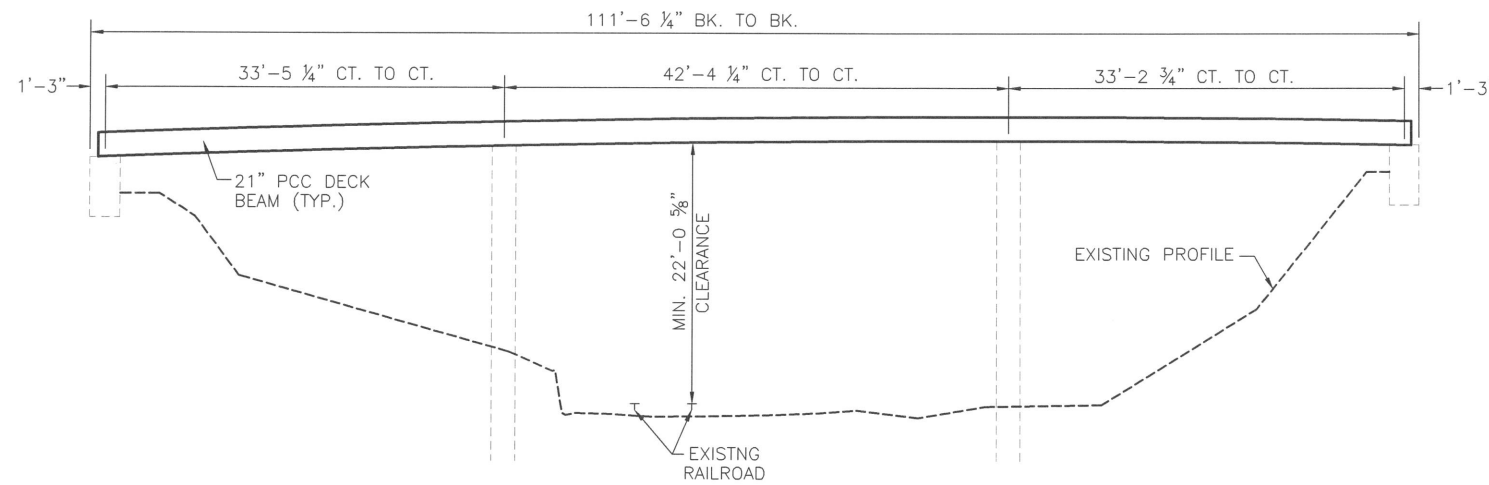
CURRENT AS OF: 2/7/2025	
SCALE: AS NOTED	SHEET 10
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EXISTING STRUCTURE NO. 050-7301

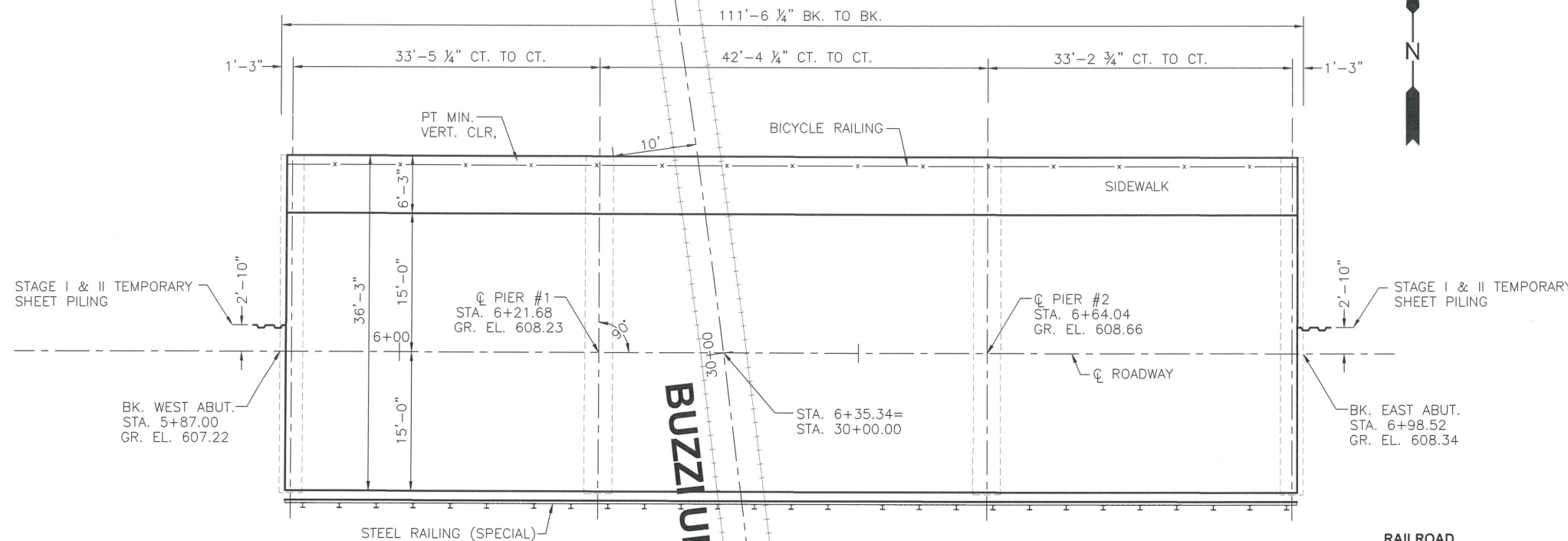
THREE SPAN PCC DECK
BEAM BRIDGE ON PILE
SUPPORTED ABUTMENTS

STAGED CONSTRUCTION

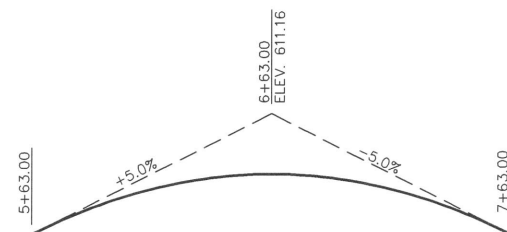
RE-USE EXISTING ABUTMENT
AND PIERS



ELEVATION

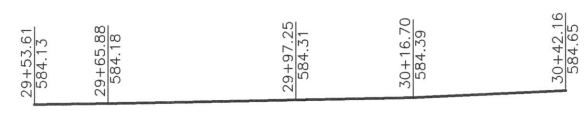


PLAN



PROFILE GRADE

RAILROAD CURVE DATA
DELTA=2°45'51"
R=1835.61'
T=44.29'
L=88.55'
CHORD
S 7°31'54" E
88.55'



RAILROAD PROFILE

BM #1
RAILROAD SPIKE IN POWER POLE
FACING NORTH AT S.E. CORNER
OF PORTLAND AVE. AND E. WALNUT ST.
INTERSECTION
ELEV.= 601.13

BM #2
RAILROAD SPIKE IN FIRST POWER
POLE EAST OF PORTLAND AVE.,
SOUTH SIDE OF WALNUT ST.
ELEV.= 600.51

BM #10
CHISELED "X" ON TOP BOLT OF
FIRST FIRE HYDRANT WEST OF
KASAP'S BAR
ELEV. 602.30

GENERAL NOTES
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVERED SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLANS, A DESIGN SUBMITTAL INCLUDING PLAN DETAILS AND CALCULATIONS WILL BE REQUIRED FOR REVIEW AND ACCEPTANCE 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 CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

INDEX

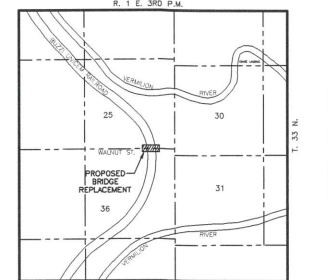
1	GENERAL PLAN AND ELEVATION
2	SUPERSTRUCTURE PLAN
3-4	SUPERSTRUCTURE DETAILS
5-8	BRIDGE STAGE CONSTRUCTION DETAILS
9	TEMPORARY CONCRETE BARRIER
10-15	PCC DECK BEAM DETAILS
16-17	BICYCLE RAILING
18-21	STEEL RAILING
22	RAIL POST SPACING
23-32	EXISTING BRIDGE PLANS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING SUPERSTRUCTURE	EACH	1	-	1
CONCRETE SUPERSTRUCTURE	CU YD	23.9	-	23.9
PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3961	-	3961
REINFORCEMENT BARS, EPOXY COATED	POUND	1350	-	1350
BICYCLE RAILING	FOOT	109	-	109
NAME PLATES	EACH	1	-	1
TEMPORARY SHEET PILING	SQ FT	37	-	37
WATERPROOFING MEMBRANE SYSTEM	SQ YD	368	-	368
PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1102	-	1102
STEEL RAILING (SPECIAL)	FOOT	108	-	108

STA. 6+42.76
RE-BUILT BY
LA SALLE COUNTY
FAU Rt. 6093 Sec. 20-38821-00-BR
LOADING HL-93
STR. NO.050-7301

NAME PLATE
See Std. 515001



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.073g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.124g
Soil Site Class = C

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition, no interims.

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" low lax. strands)
fpbt = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinforcement)

CHAMLIN & ASSOCIATES, INC. © 2023. DRAWING NO. 2023-0018-18. WALNUT STREET BRIDGE SUPERSTRUCTURE REPLACEMENT (CD) 011-GENERAL. PLAN AND ELEVATION. LAST MODIFIED: THURSDAY, FEBRUARY 08, 2024 12:32:05 PM. BY: JIM CLINARD

DRAWN BY:	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
JJW					
CHECKED BY:					
JKC					
DATE:					
01/2024					



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OTTAWA MORTON
ILLINOIS

**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

GENERAL PLAN & ELEVATION

**CONSTRUCTION
PLANS**

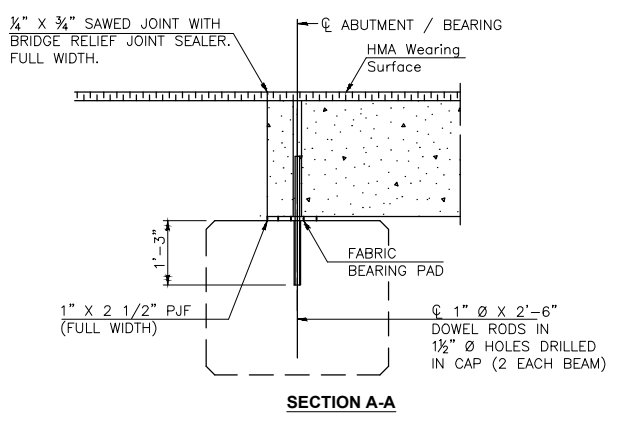
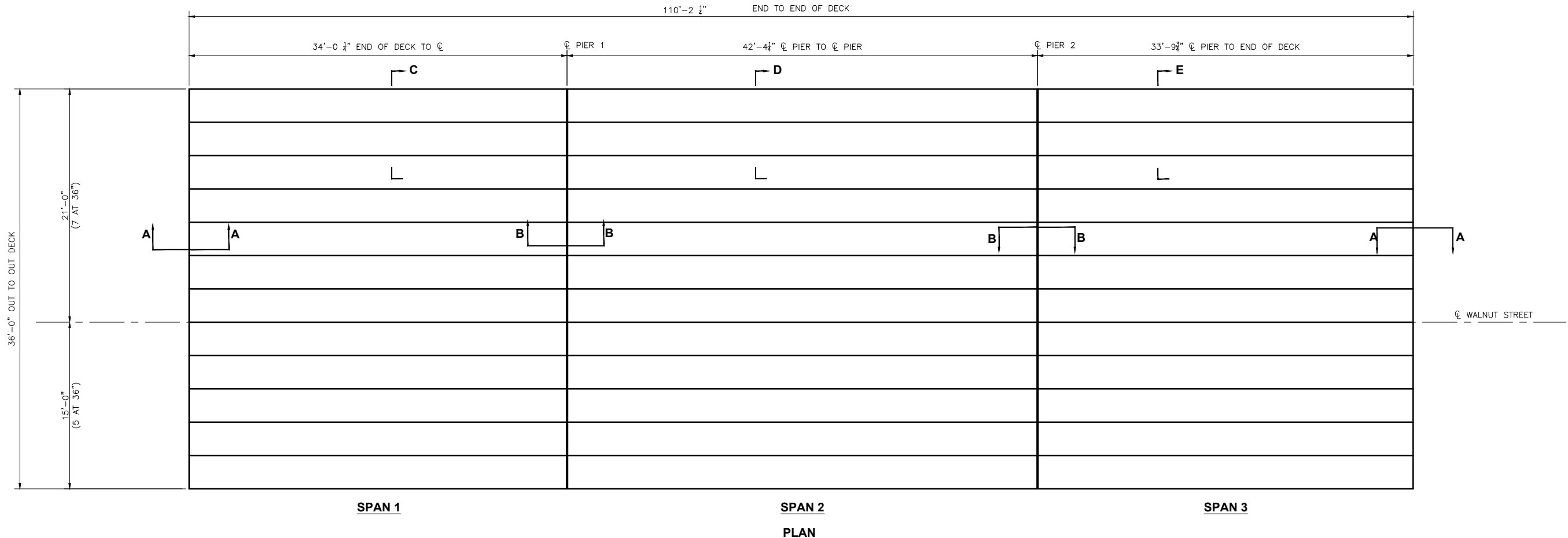
SHEET 1 OF 32 "CONTRACT NO. 87852"

CURRENT AS OF: 2/7/2025	SHEET 11
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

2/6/25
date
JAMES K. CLINARD
LICENSED STRUCTURAL ENGINEER
NO. 081-004655
STATE OF ILLINOIS
expires 11-30-2024
signature
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-001717

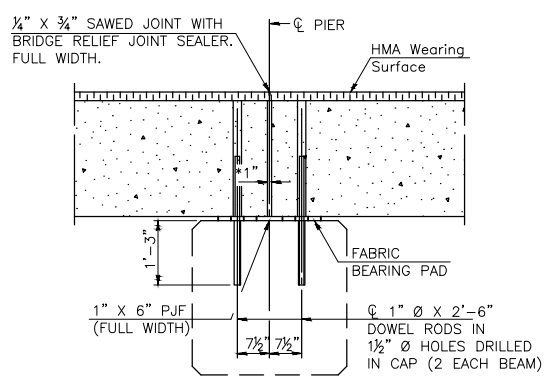
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

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SECTION A-A

SEE PPC DECK BEAM SHEETS FOR FABRIC BEARING PAD DETAILS



SECTION B-B

*1" JT. SHALL BE FILLED WITH NON-SHRINK GROUT. 1" DIMENSION MAY VARY TO ACCOMMODATE TOLERANCE IN BEAM LENGTHS.

NOTES
 SEE SHEET 3 OF 32 FOR SECTIONS C,D,&E

DRAWN BY: JKC	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 07/2022					


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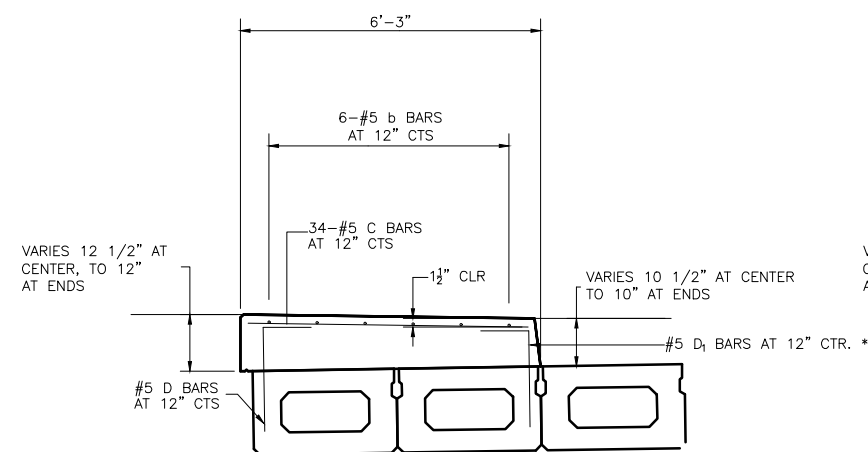
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

SUPERSTRUCTURE PLAN
STRUCTURE NO. 050-7301

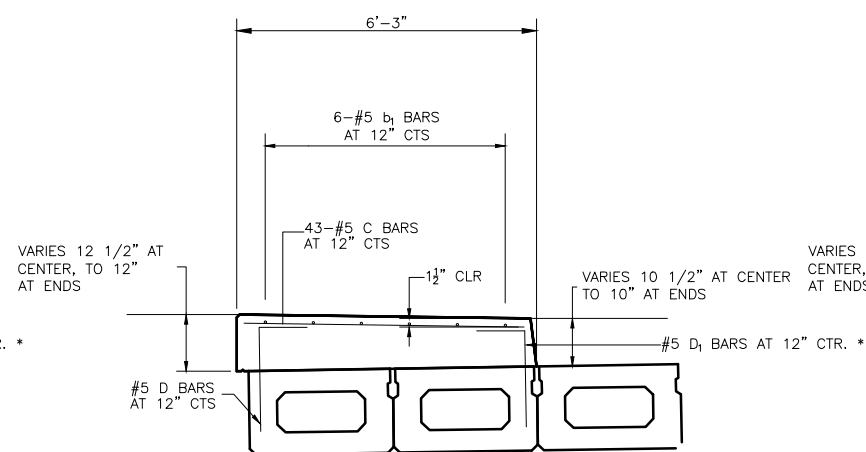
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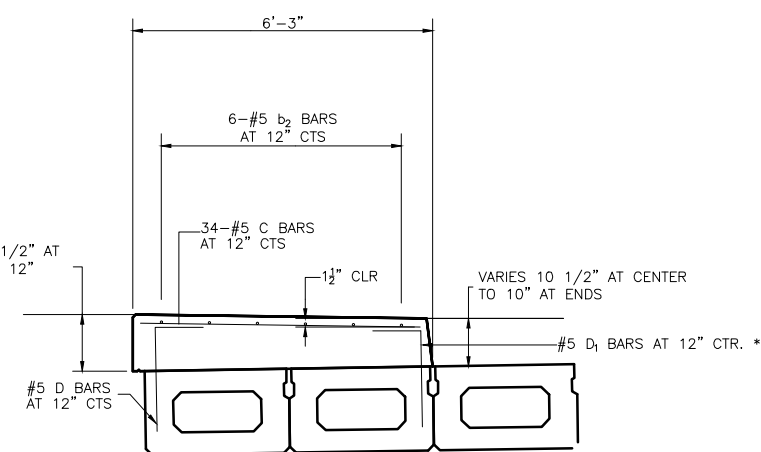
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 Last Modified: Wednesday, February 05, 2025 9:38:17 AM



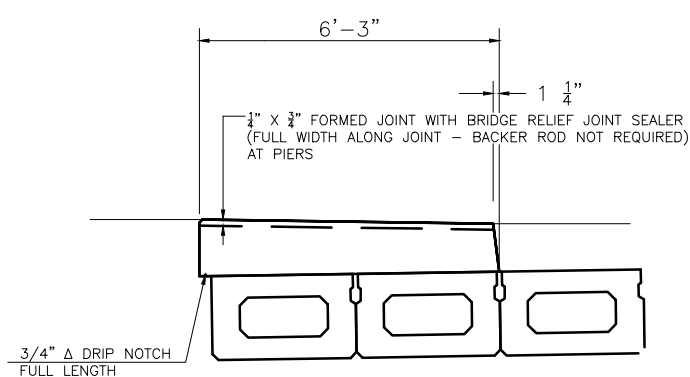
SECTION C- SPAN 1



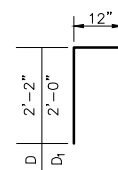
SECTION D- SPAN 2



SECTION E- SPAN 3



SIDEWALK DETAILS



BARS D & D1
 * - THESE BARS SHALL
 BE CAST WITH BEAMS
 (INCLUDED IN COST OF BEAMS)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
b	6	#5	33'-8"	---
b ₁	6	#5	42'-0"	---
b ₂	6	#5	33'-6"	---
C	111	#5	5'-9"	---
REINFORCEMENT BARS, EPOXY COATED			POUND	1350
CONCRETE SUPERSTRUCTURE			CU YD	23.9

LEVEL	BY	DATE	REVISIONS	DESCRIPTION

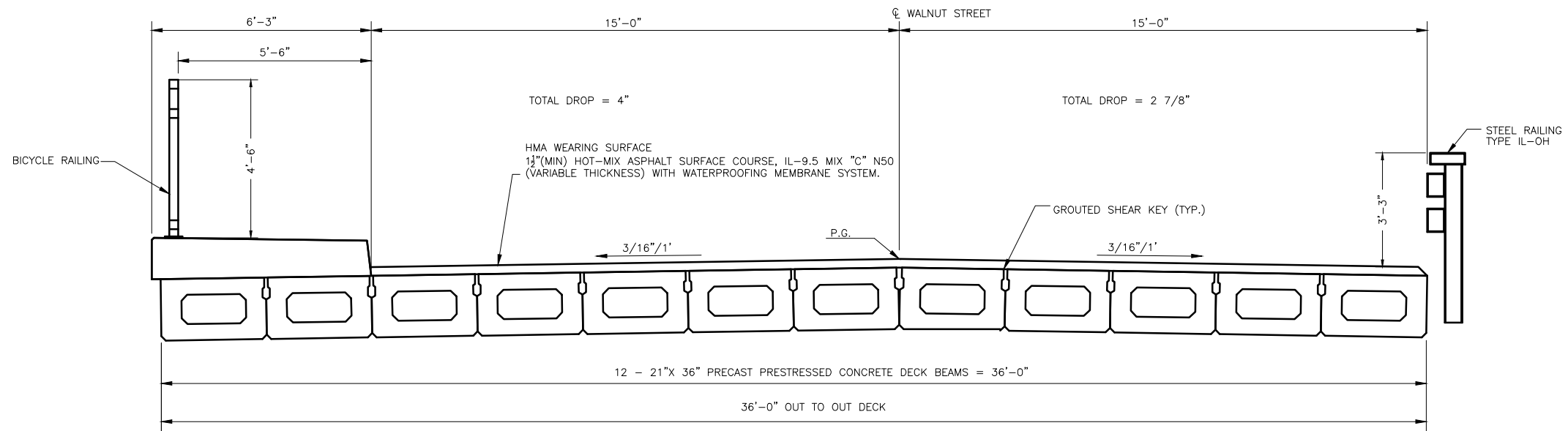

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SECTION 20-00821-00-BR
LASALLE COUNTY

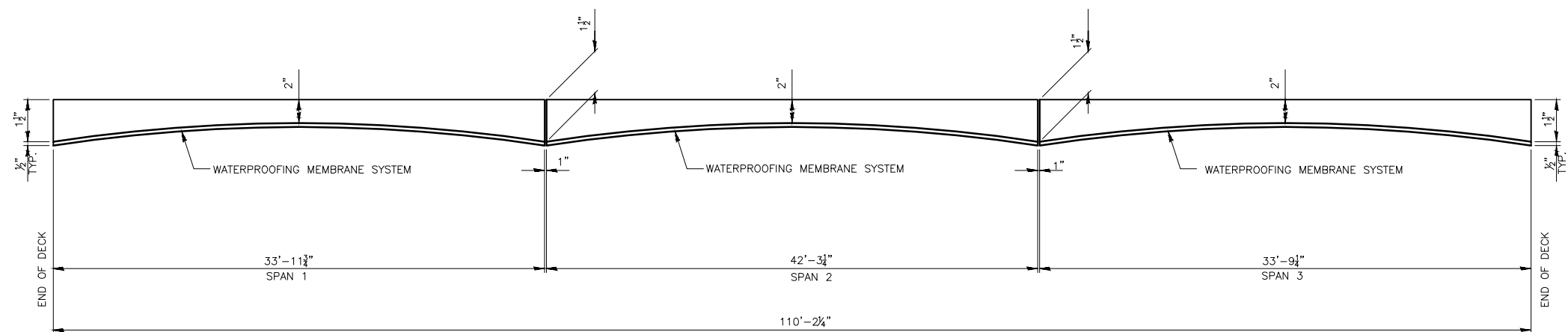
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 050-7301

CONSTRUCTION PLANS	CURRENT AS OF: 2/7/2025	
	SCALE: AS NOTED	SHEET 13
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 Last Modified: Wednesday, February 05, 2025 9:38:17 AM
 Plotted On: Wednesday, February 05, 2025 9:44:53 AM
 by Jim Clifford



CROSS SECTION



ANTICIPATED HMA WEARING SURFACE PROFILE
 (FOR INFORMATION ONLY - BEAM CAMBER MAY VARY IN FIELD)

LEVEL	BY	DATE	REVISIONS	DESCRIPTION

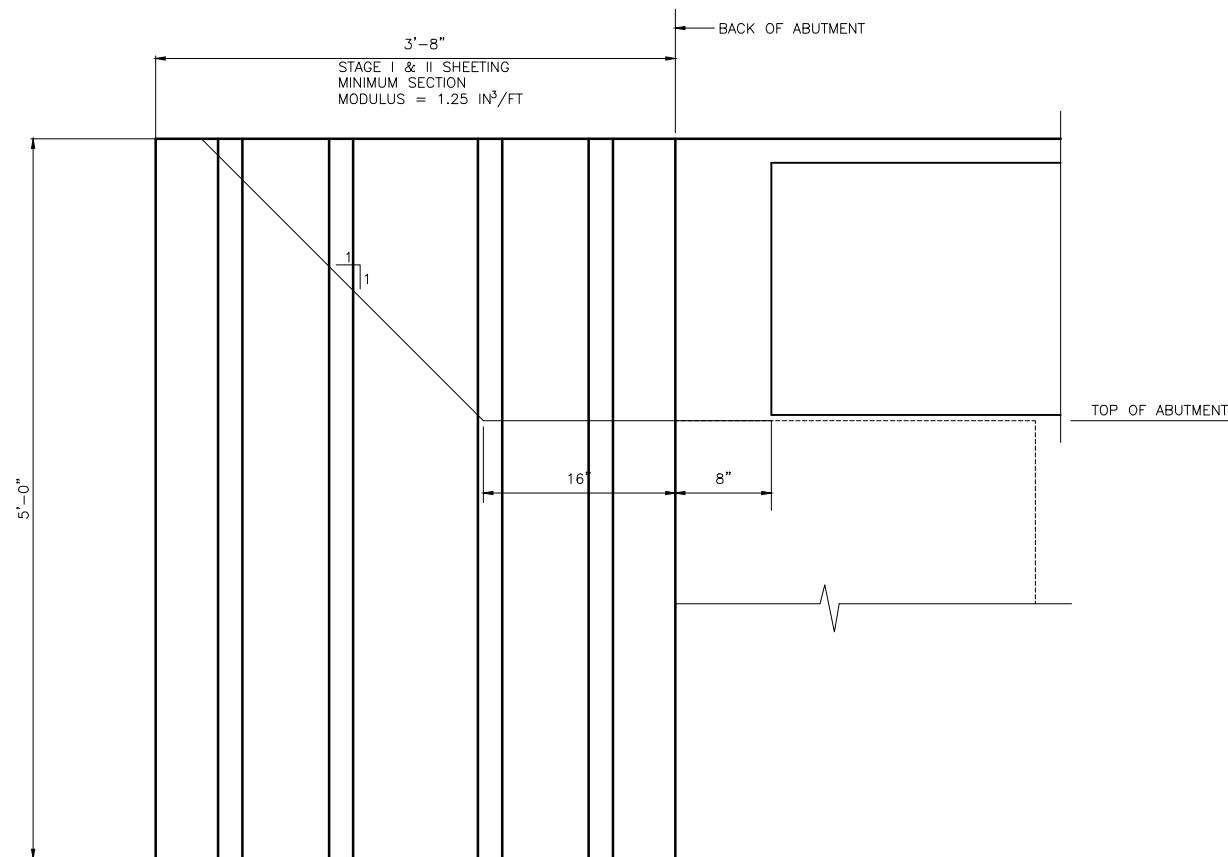

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SECTION 20-00821-00-BR
LASALLE COUNTY

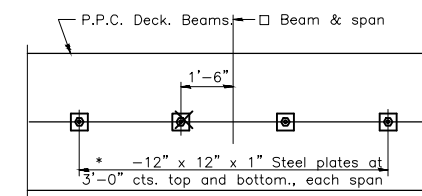
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STRUCTURE NO. 050-7301

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	FILE NO.: 111489.00 Y-	OF 42

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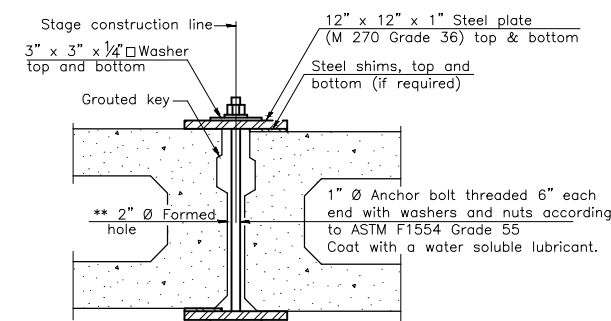


**TEMPORARY SHEET PILING DETAIL - STAGE I + II
TYPICAL AT EACH ABUTMENT**

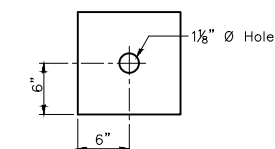


PLAN

*Space plates to miss temporary bridge rail posts.



SECTION



CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See stage construction details for traffic lanes.

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

BILL OF MATERIAL

TEMPORARY SHEET PILING	SOFT	37
------------------------	------	----

SHEET 5 OF 32 "CONTRACT NO. 87852

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	LEVEL	BY	DATE	DESCRIPTION
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DATE: 07/2022				



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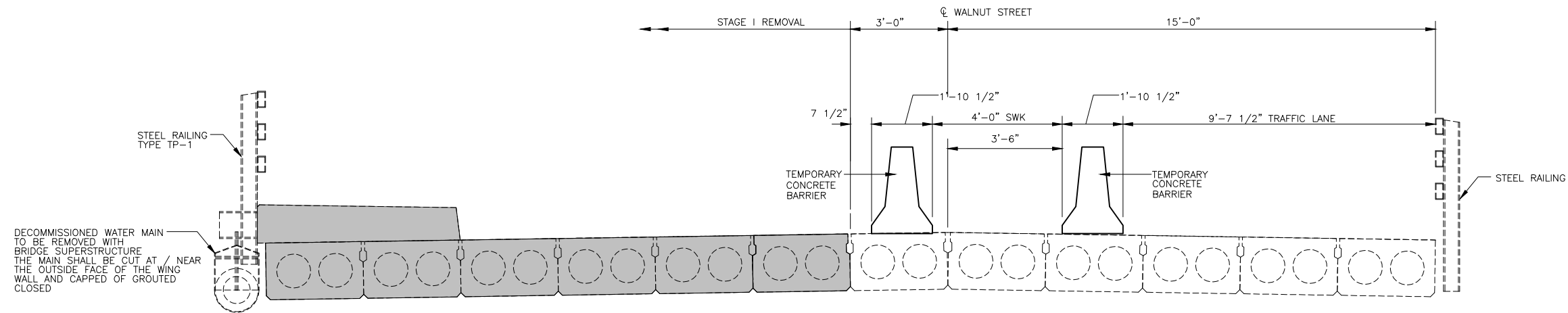
**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

**BRIDGE STAGE CONSTRUCTION
STRUCTURE NO. 050-7301**

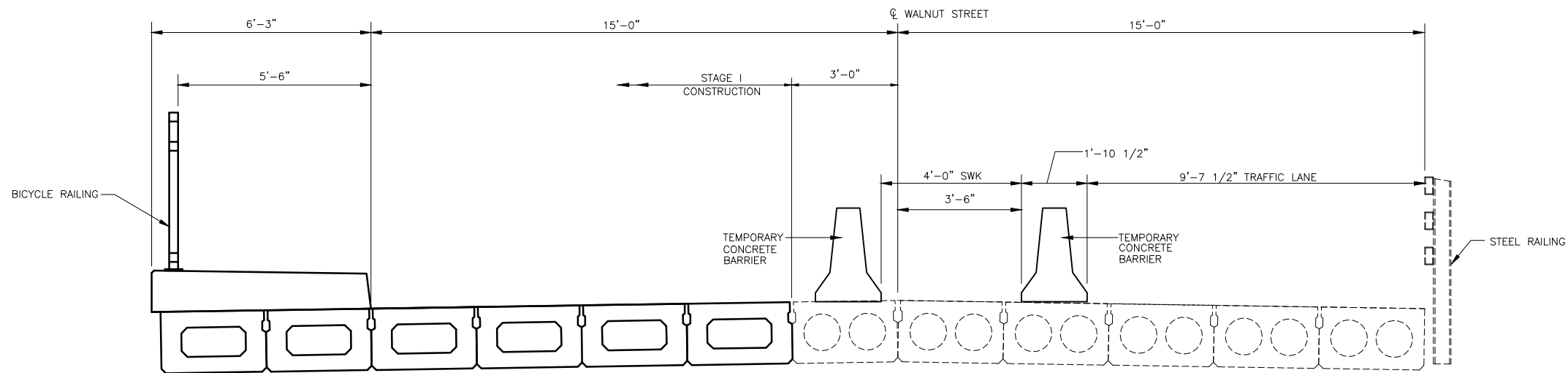
**CONSTRUCTION
PLANS**

CURRENT AS OF: 2/7/2025	
SCALE: AS NOTED	SHEET 15
FILE NO.: 111489.00 Y-	OF 43

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 Plotted On: Wednesday, February 05, 2025 9:32:28 AM
 by Jim Cloward



STAGE I TRAFFIC & REMOVAL



STAGE I TRAFFIC & CONSTRUCTION

SHEET 6 OF 32 "CONTRACT NO. 87852"

LEVEL	BY	DATE	REVISIONS	DESCRIPTION


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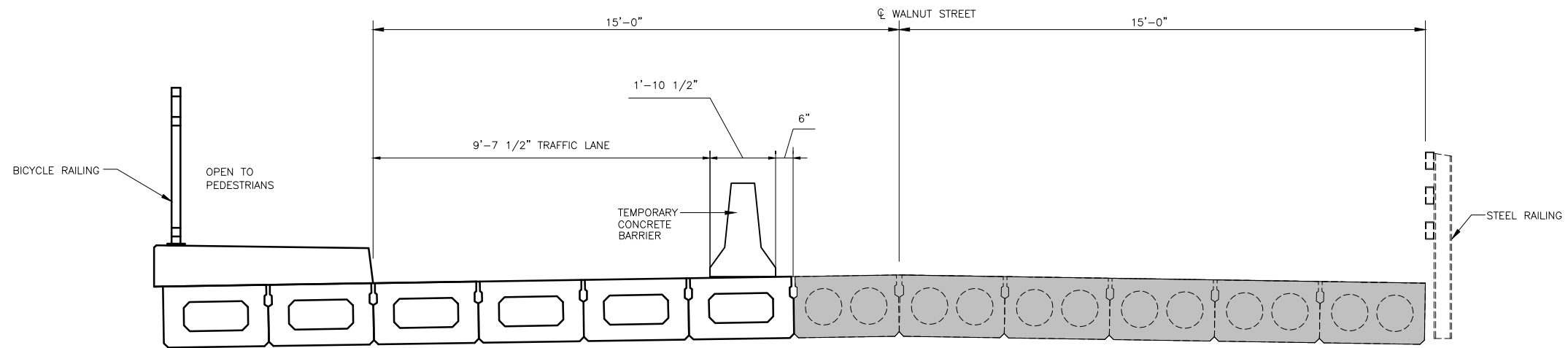
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SECTION 20-00821-00-BR
LASALLE COUNTY

BRIDGE STAGE CONSTRUCTION
STRUCTURE NO. 050-7301

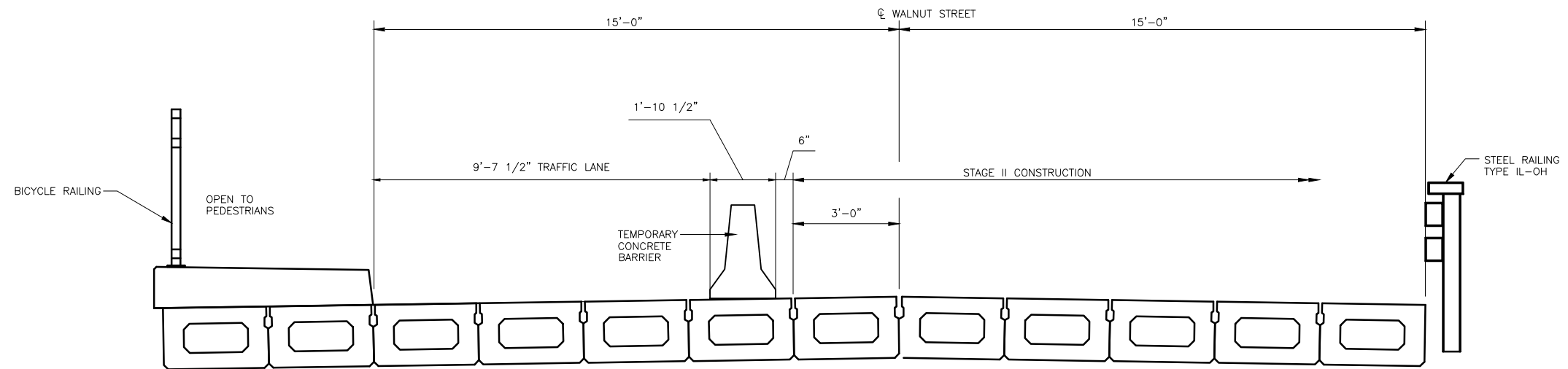
CONSTRUCTION
PLANS

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STAGE II TRAFFIC & REMOVAL



STAGE II TRAFFIC & CONSTRUCTION

SHEET 7 OF 32 "CONTRACT NO. 87852"

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DATE: 07/2022				

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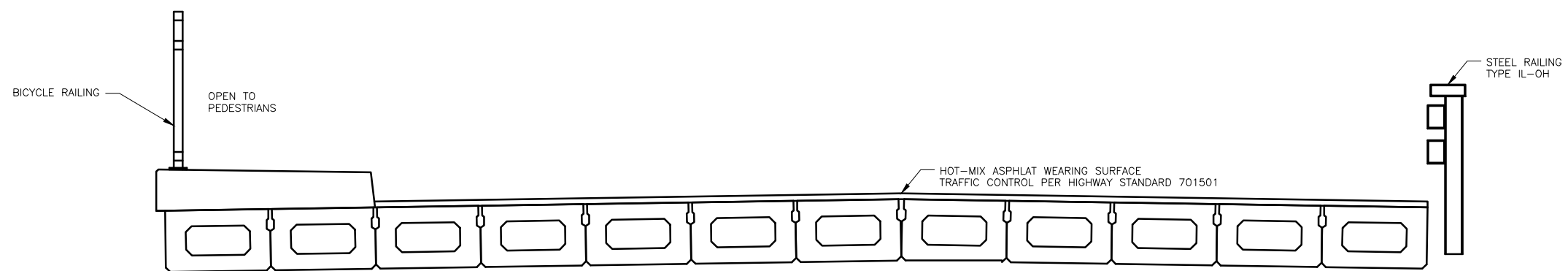
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

BRIDGE STAGE CONSTRUCTION
STRUCTURE NO. 050-7301

CONSTRUCTION
PLANS

CURRENT AS OF: 2/7/2025	
SCALE: AS NOTED	SHEET 17
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STAGE III TRAFFIC & CONSTRUCTION

SHEET 8 OF 32 "CONTRACT NO. 87852"

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DATE: 07/2022				



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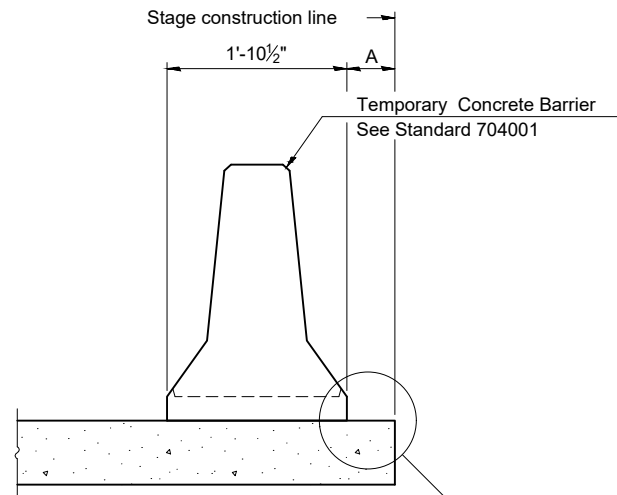
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

BRIDGE STAGE CONSTRUCTION
STRUCTURE NO. 050-7301

CONSTRUCTION
PLANS

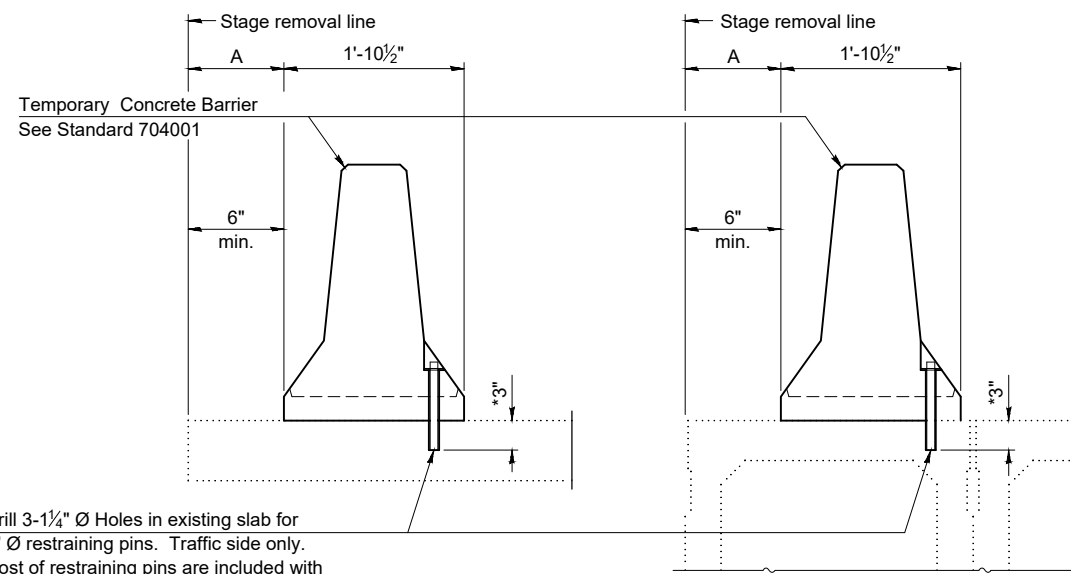
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 Last Modified: Wednesday, October 16, 2024 4:10:30 PM
 Plotted On: Monday, October 21, 2024 1:15:06 PM
 By: Jim Cloward



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



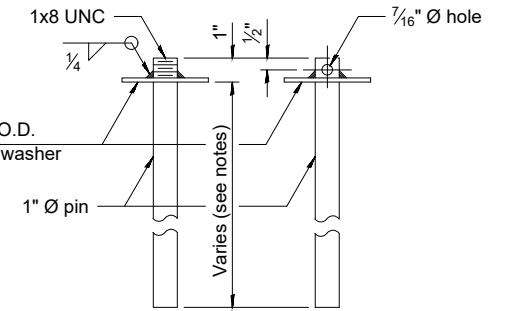
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

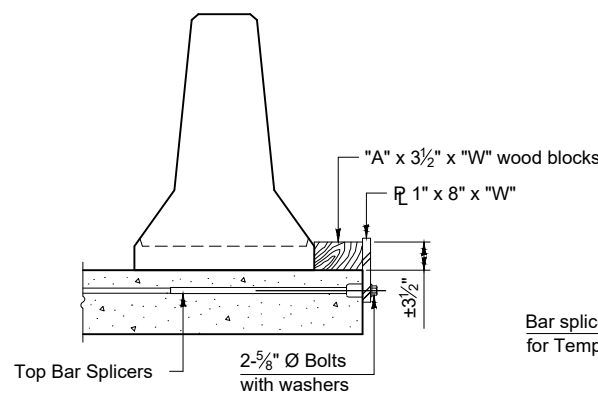
EXISTING DECK BEAM

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

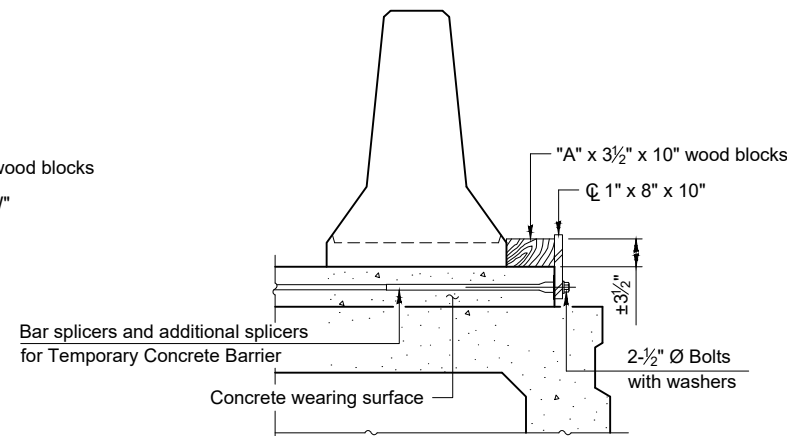
SECTIONS THRU SLAB OR DECK BEAM



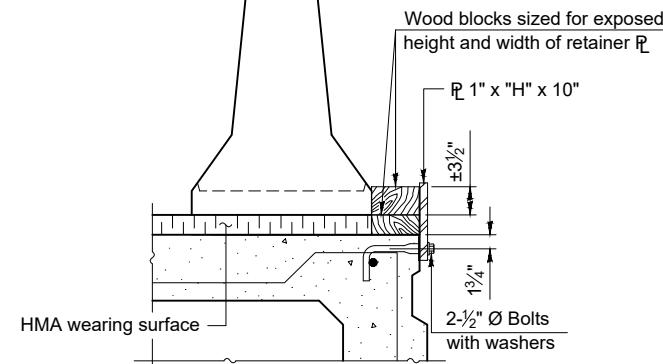
RESTRAINING PIN



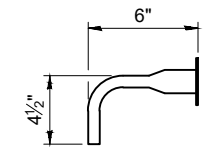
DETAIL I



DETAIL II



DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III

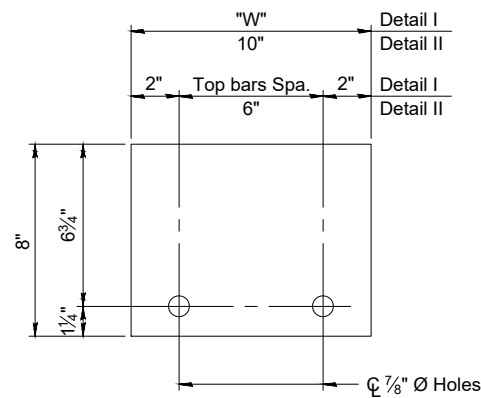
Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

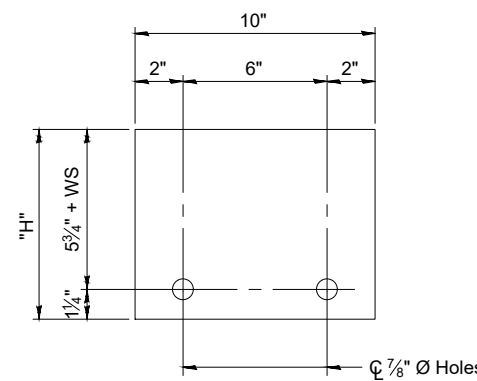
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER P 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER P 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

SHEET 9 OF 32 "CONTRACT NO. 87852

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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				

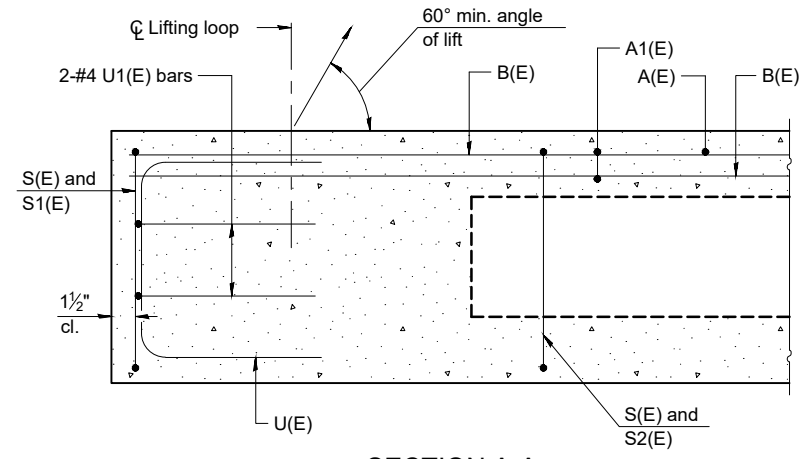

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WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

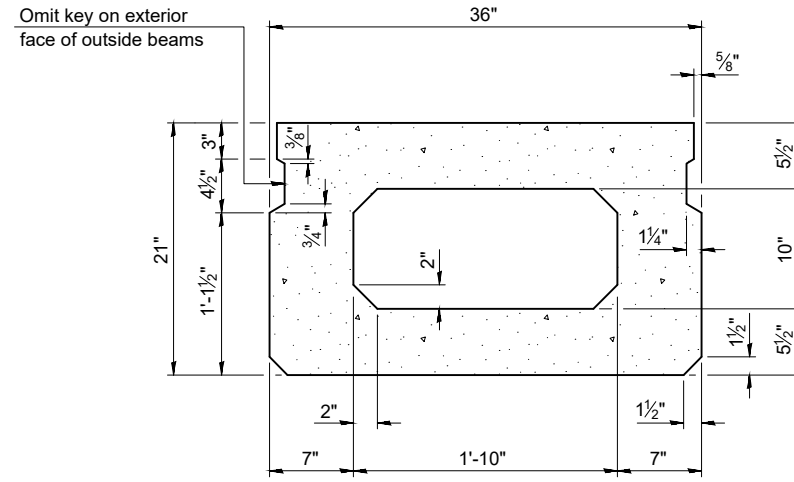
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 050-7301

CONSTRUCTION PLANS
 CURRENT AS OF: 10/21/2024
 SCALE: AS NOTED SHEET 19
 FILE NO.: 111489.00 Y- OF 43

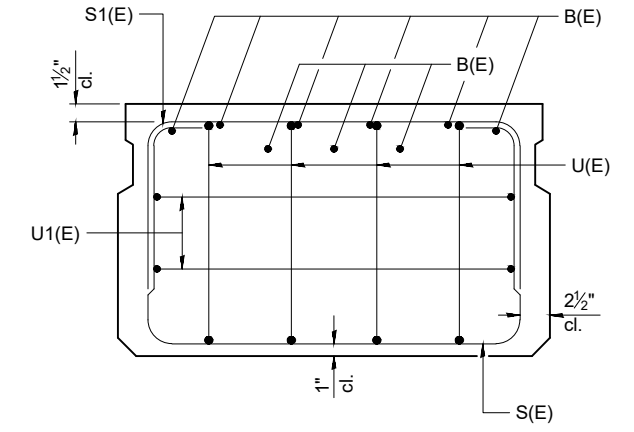
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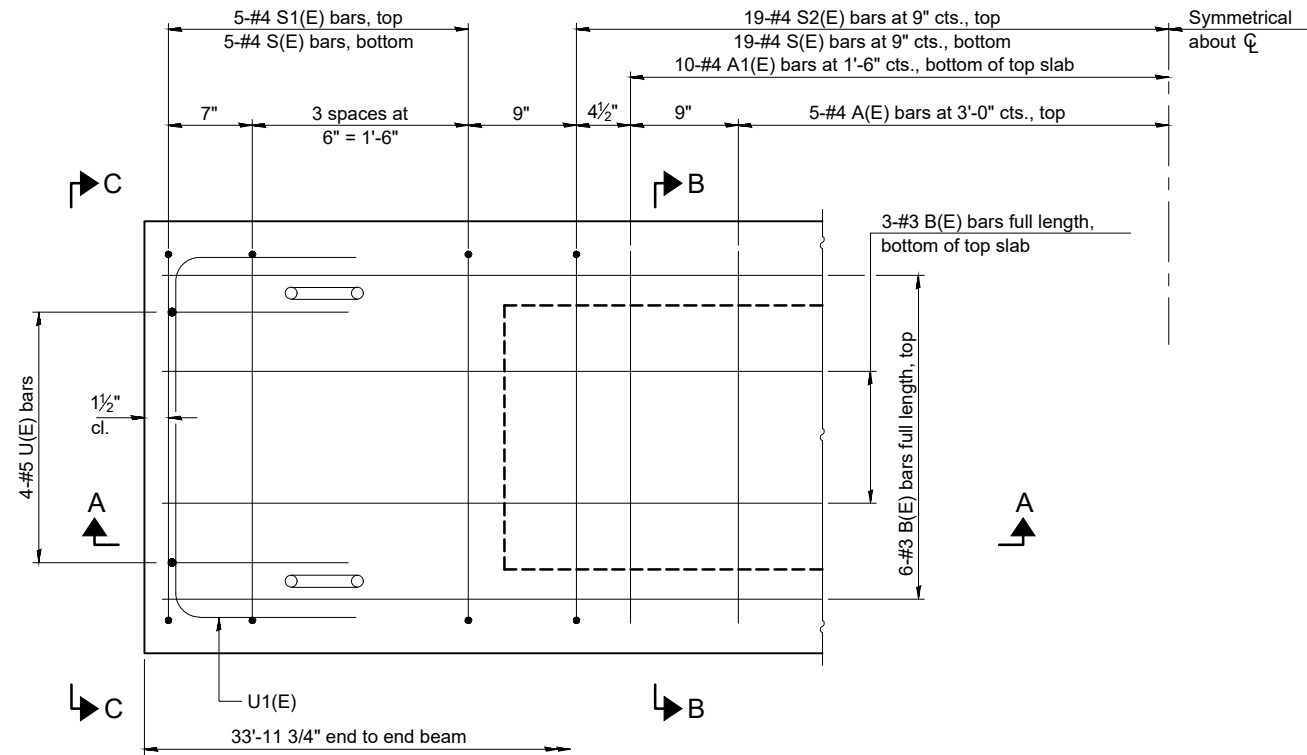
SECTION A-A



SECTION B-B
(Showing dimensions)

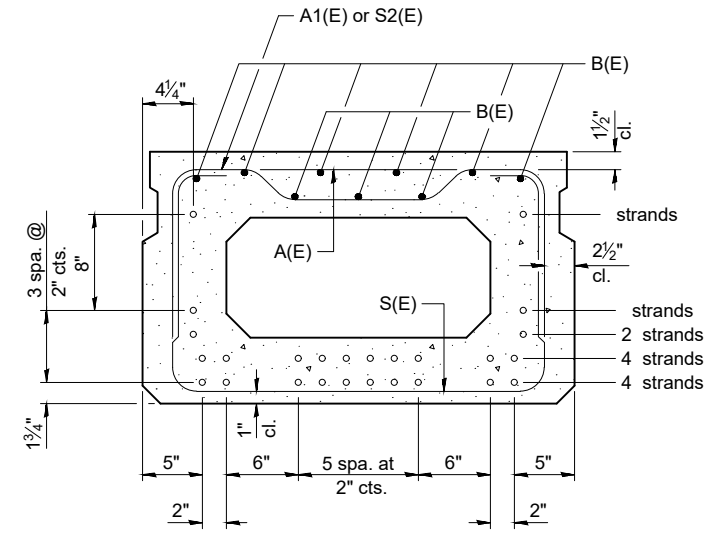


VIEW C-C



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)	10	#4	2'-7"	—
A1(E)	20	#4	2'-10"	—
B(E)	9	#3	33'-8"	—
S(E)	48	#4	6'-5"	⌈
S1(E)	10	#4	4'-11"	⌈
S2(E)	38	#4	5'-2"	⌈
U(E)	8	#5	4'-0"	⌈
U1(E)	4	#4	5'-0"	⌈

Note:
 See sheet 11 of 32 for additional details and Bill of Material.
 See sheet 3 of 32 for additional details for beams under sidewalk.

PD-2136-0

5-15-2023

SHEET 10 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				



PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

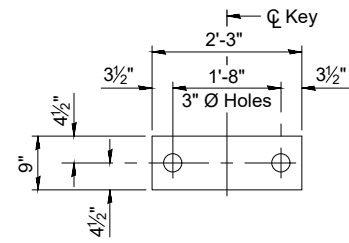
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

21" x 36" PPC DECK BEAM
STRUCTURE NO. 050-7301 SPAN 1

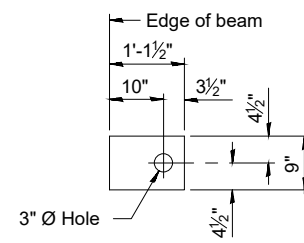
CONSTRUCTION
PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 20
FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\j1111489-00-Walnut Street Bridge Superstructure Replacement\CAD\021-023-025-21X36-PPC-DECK-BEAM-DETAILS.dwg
 Last Modified: Wednesday, October 16, 2024 4:20:38 PM
 Plotted On: Monday, October 21, 2024 11:00:01 PM by Jim Cinar



FABRIC BEARING PAD
(Interior)

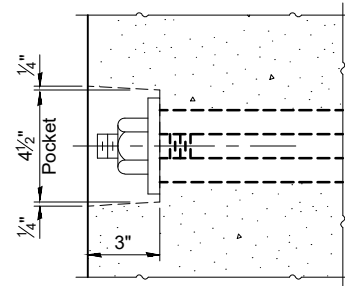


FABRIC BEARING PAD
(Exterior)

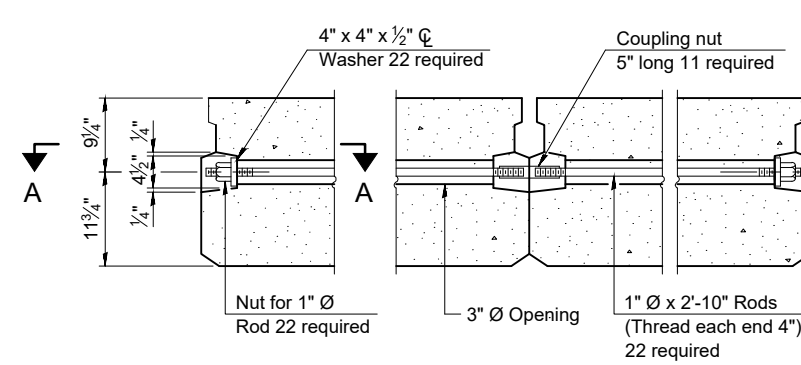
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Notes:

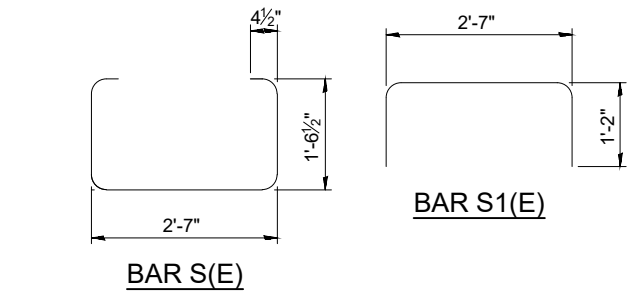
- All bearing pads shall be 1" thick.
- Omit holes when using expansion bearings.
- Expansion bearing pads shall be bonded to the substructure.



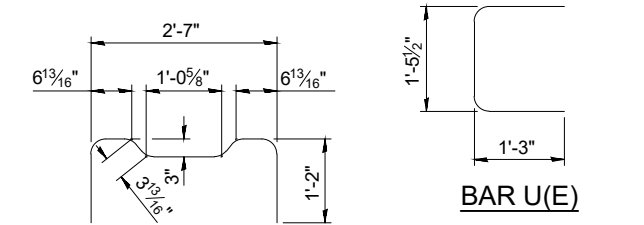
SECTION A-A



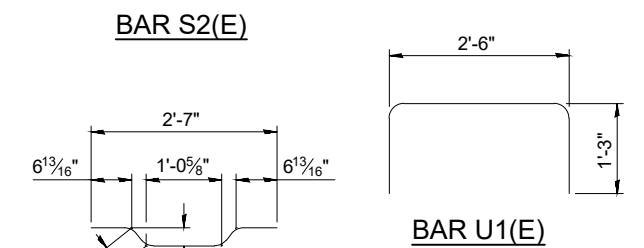
TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)



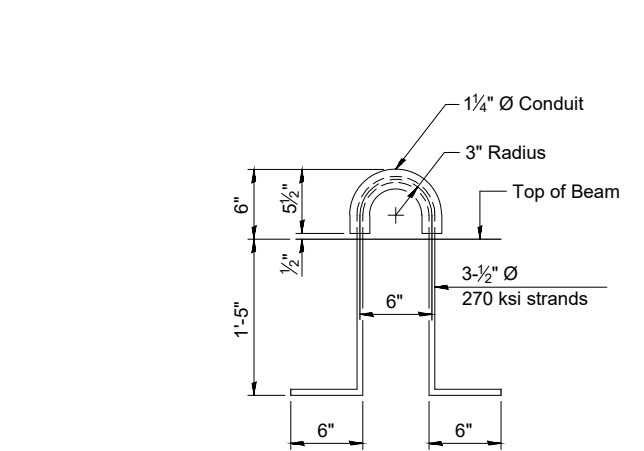
BAR U(E)



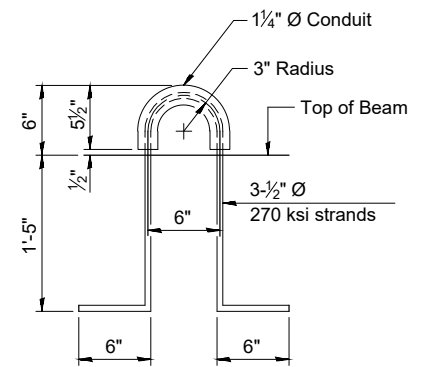
BAR S2(E)



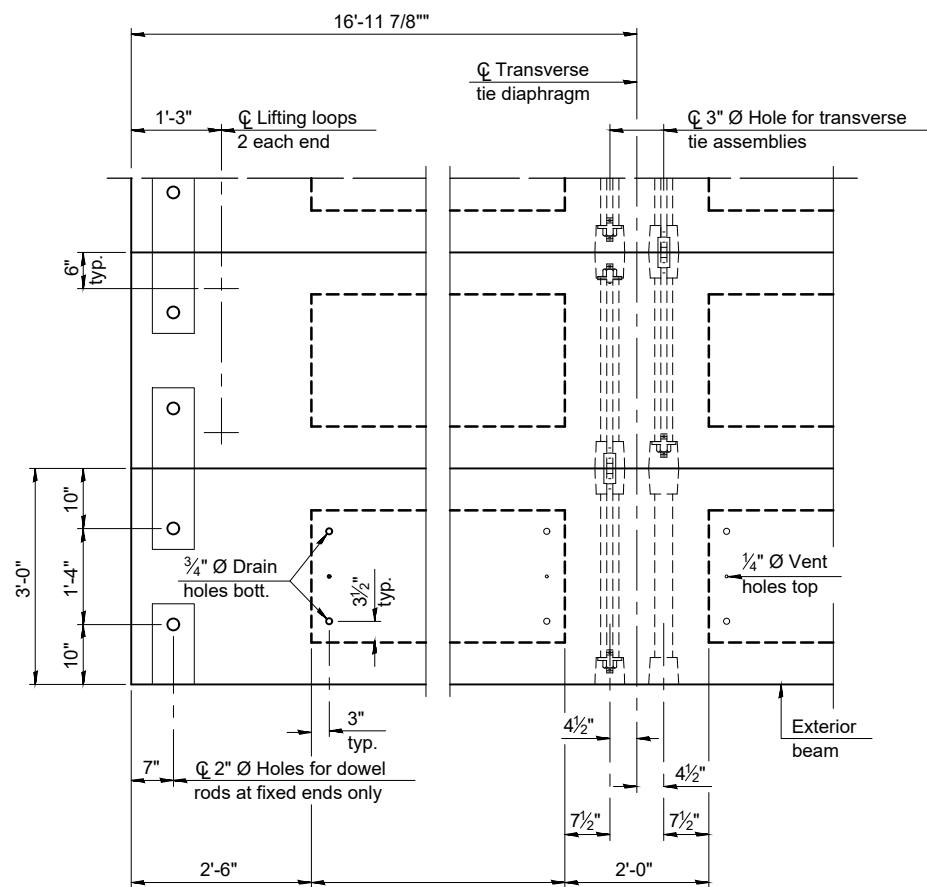
BAR U1(E)



BAR A1(E)



LIFTING LOOP DETAIL



PLAN VIEW

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

NOTES

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

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1223
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PDD-2136-0

5-15-2023

SHEET 11 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				



PERU MORRIS
OTTAWA MORTON
ILLINOIS

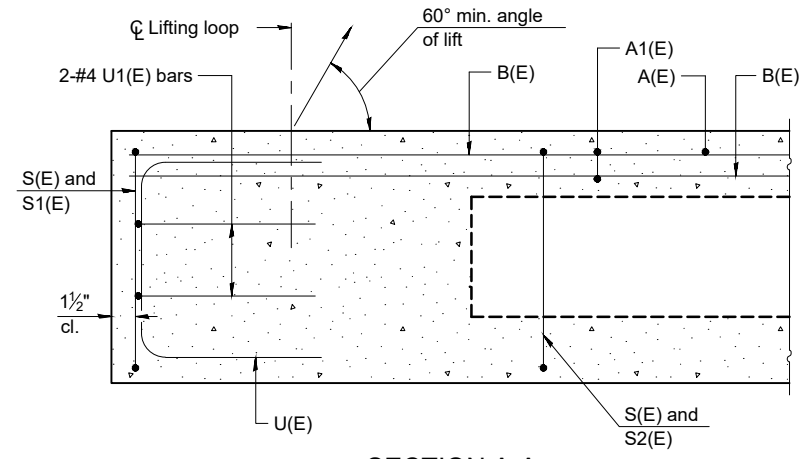
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 050-7301 SPAN 1

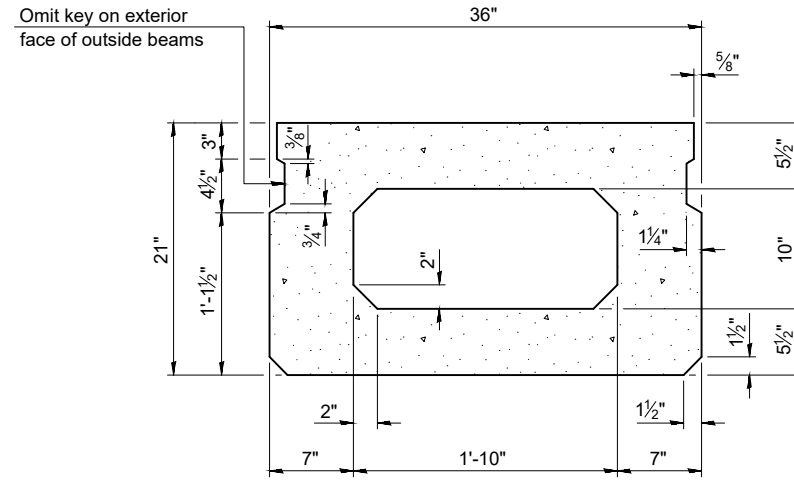
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 21
FILE NO.: 111489.00 Y-	OF 43

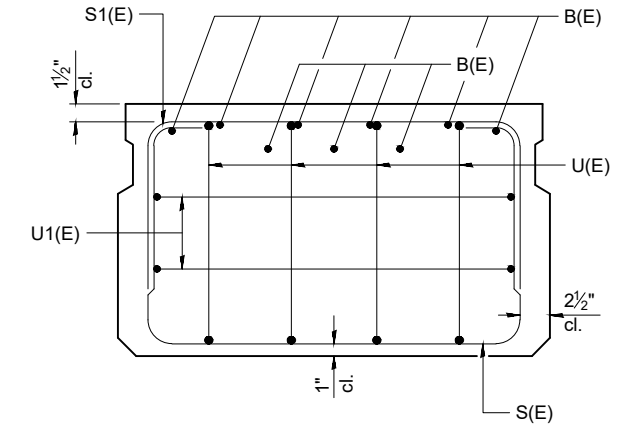
CHAMLIN & ASSOCIATES, INC. © 2023
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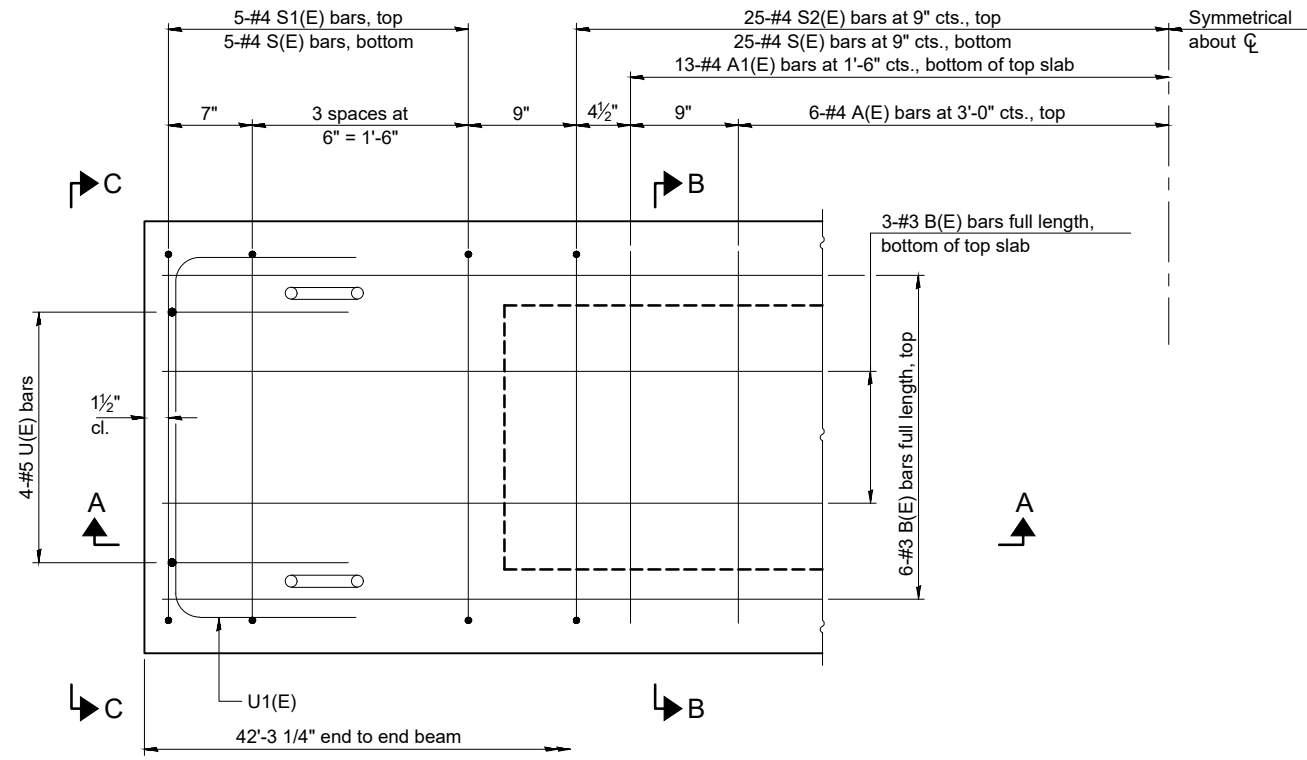
SECTION A-A



SECTION B-B
(Showing dimensions)

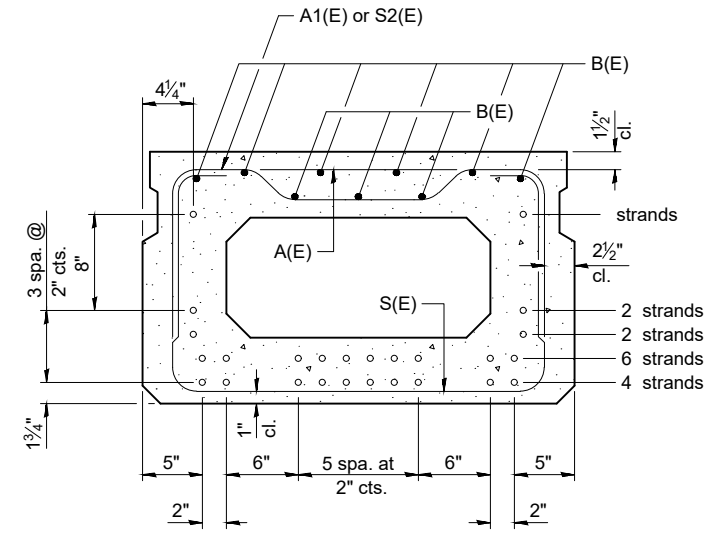


VIEW C-C



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	2'-7"	—
A1(E)	25	#4	2'-10"	—
B(E)	9	#3	42'-0"	—
S(E)	60	#4	6'-5"	⌊
S1(E)	10	#4	4'-11"	⌊
S2(E)	50	#4	5'-2"	⌊
U(E)	8	#5	4'-0"	⌊
U1(E)	4	#4	5'-0"	⌊

Note:
 See sheet 13 of 32 for additional details and Bill of Material.
 See sheet 3 of 32 for additional details for beams under sidewalk.

PD-2136-0

5-15-2023

SHEET 12 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				



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 OTTAWA MORTON
 ILLINOIS

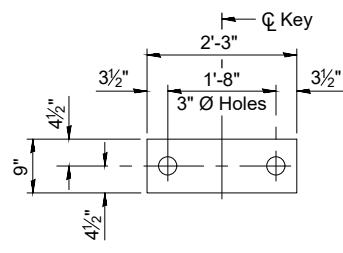
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

21" x 36" PPC DECK BEAM
STRUCTURE NO. 050-7301 SPAN 2

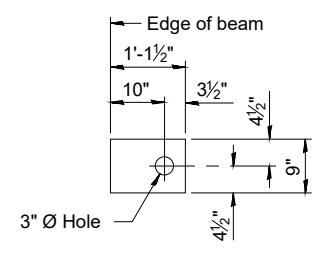
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 22
FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
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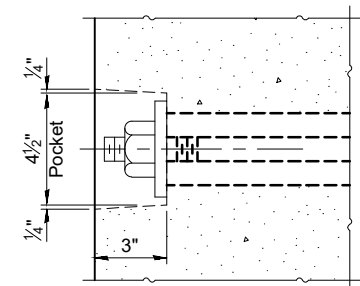
FABRIC BEARING PAD
(Interior)



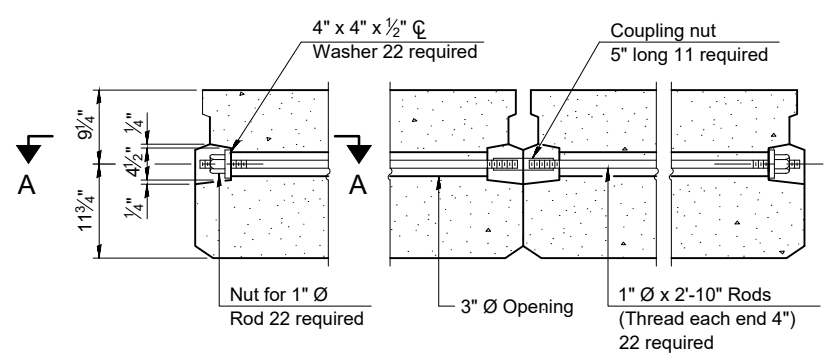
FABRIC BEARING PAD
(Exterior)

FIXED

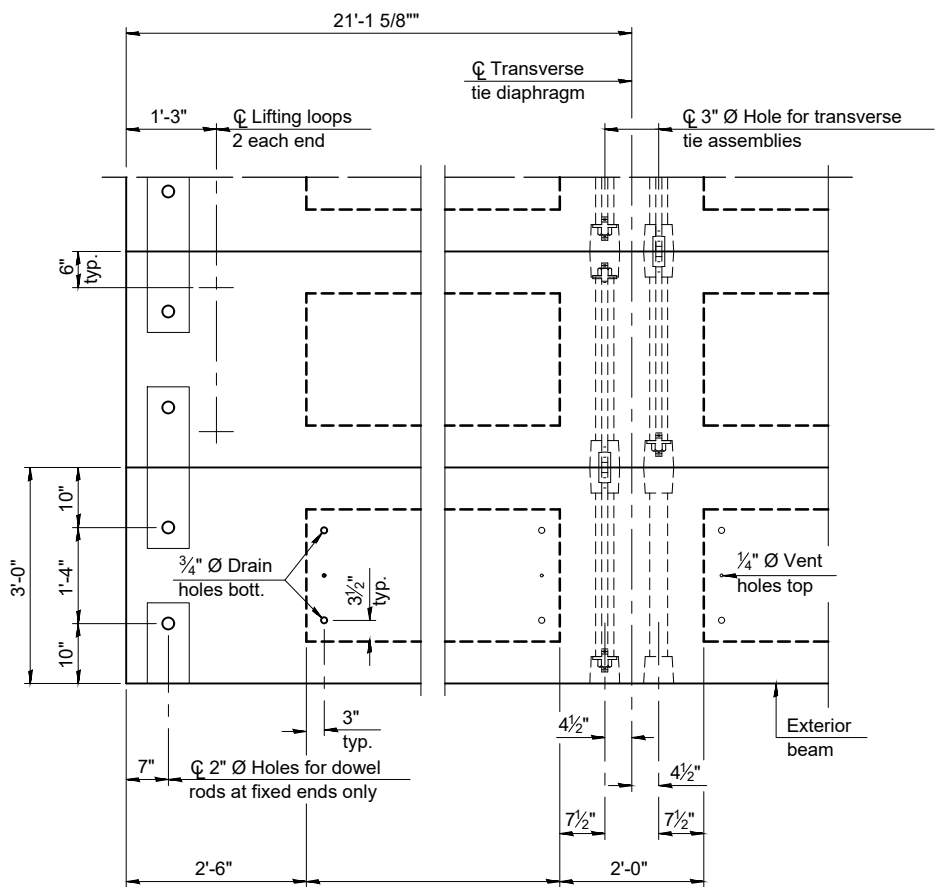
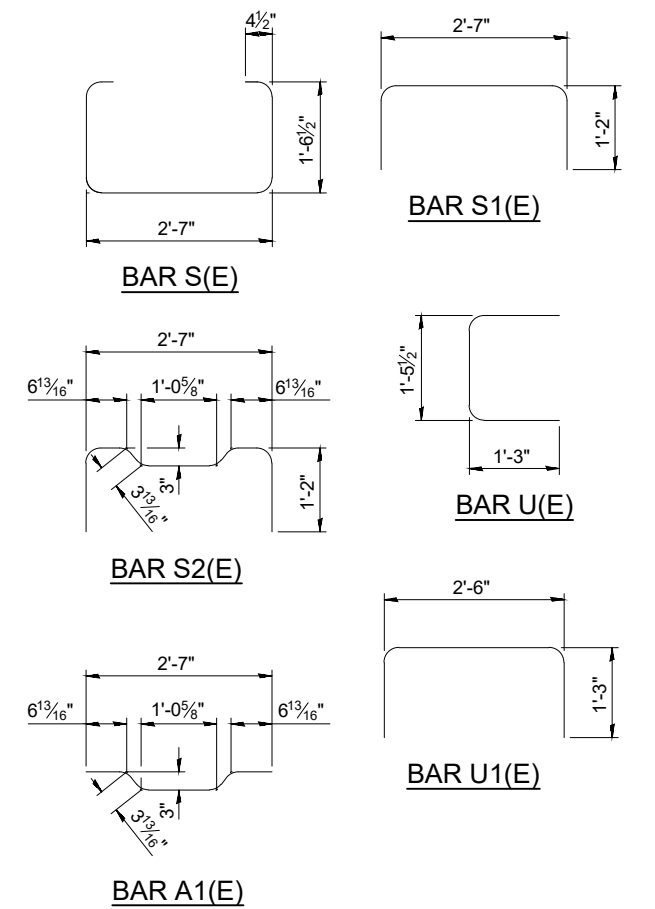
Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

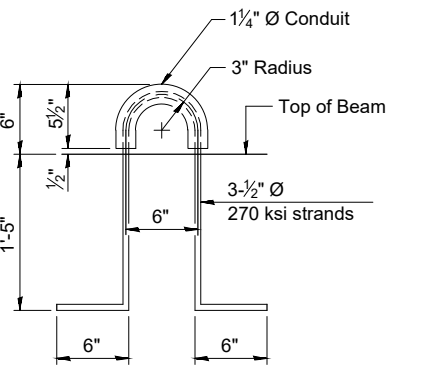


PLAN VIEW

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

NOTES

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



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1522
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PDD-2136-0

5-15-2023

SHEET 13 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS		
	LEVEL	BY	DATE
CHECKED BY: JKC			
DATE: 01/2024			


 PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

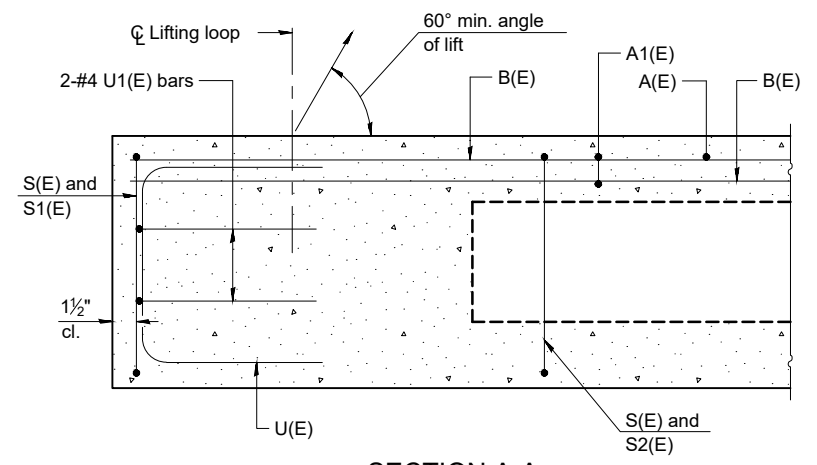
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 050-7301 SPAN 2

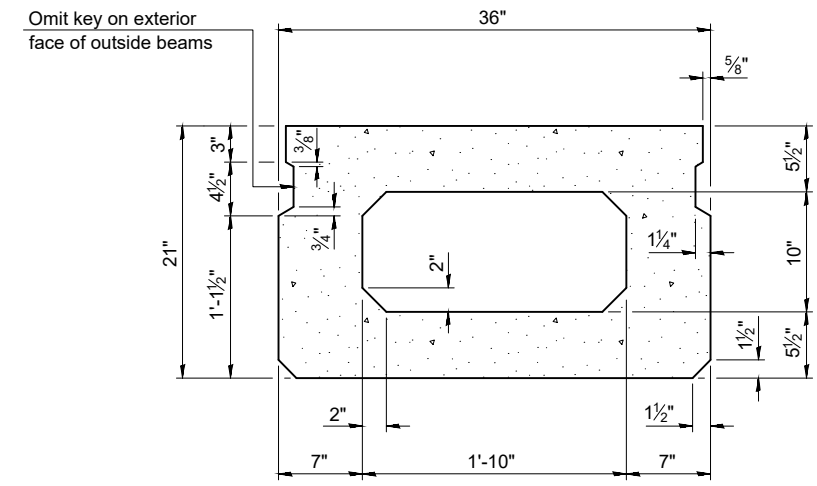
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 23
FILE NO.: 111489.00 Y-	OF 43

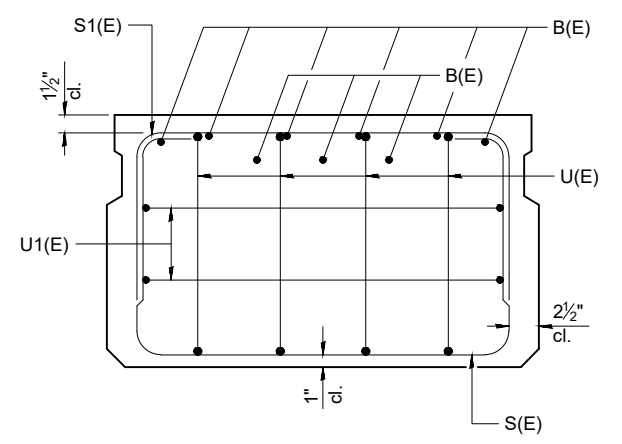
CHAMLIN & ASSOCIATES, INC. © 2023
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 Plotted On: Monday, October 21, 2024 1:13:25 PM by Jim Chiodo



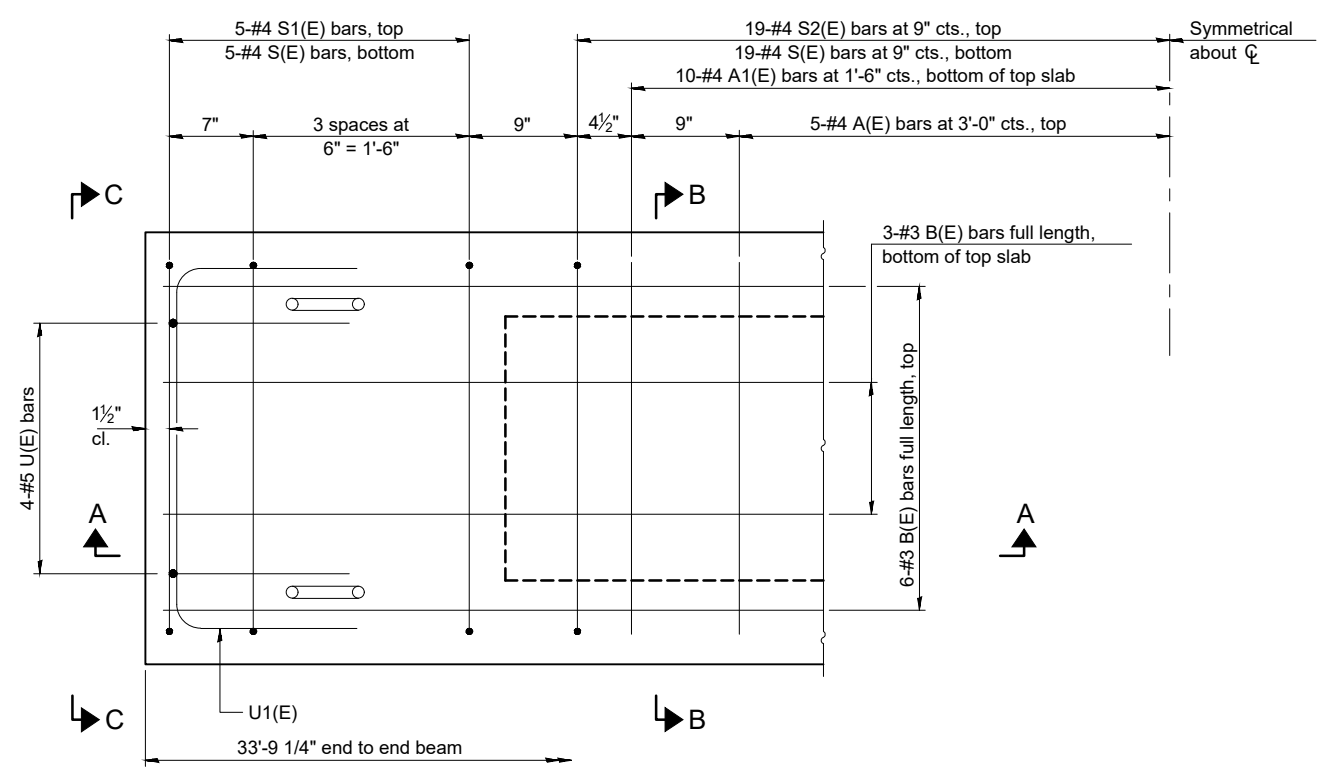
SECTION A-A



SECTION B-B
(Showing dimensions)

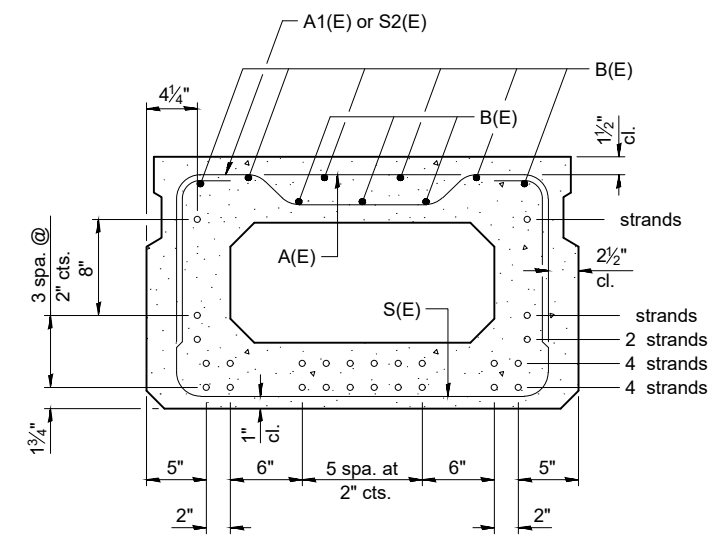


VIEW C-C



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)	10	#4	2'-7"	—
A1(E)	20	#4	2'-10"	—
B(E)	9	#3	33'-5"	—
S(E)	48	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	38	#4	5'-2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

Note:
See sheet 15 of 32 for additional details and Bill of Material.
See sheet 3 of 32 for additional details for beams under sidewalk.

PD-2136-0

5-15-2023

SHEET 14 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				

PERU MORRIS
OTTAWA MORTON
ILLINOIS

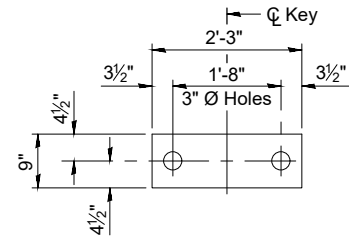
WALNUT STREET BRIDGE
SECTION 20-0021-00-BR
LASALLE COUNTY

21" x 36" PPC DECK BEAM
STRUCTURE NO. 050-7301 SPAN 3

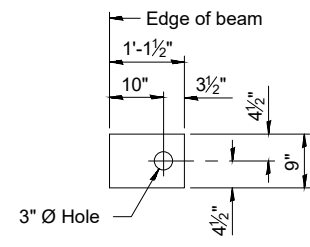
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 24
FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
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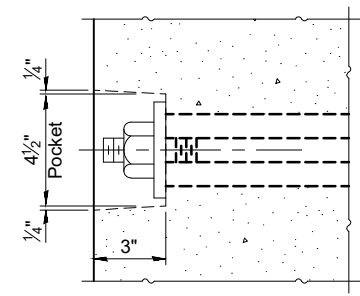
FABRIC BEARING PAD
(Interior)



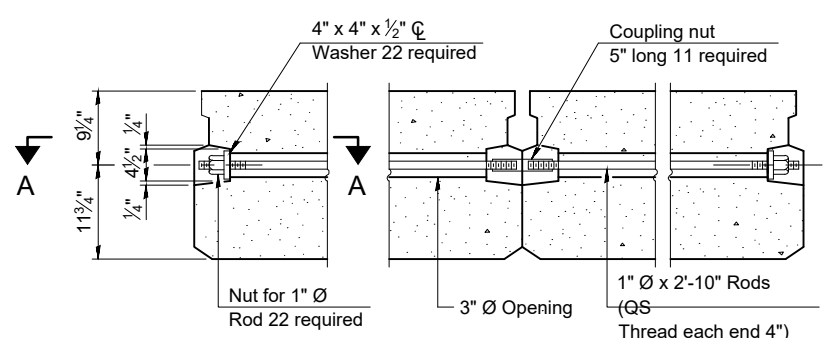
FABRIC BEARING PAD
(Exterior)

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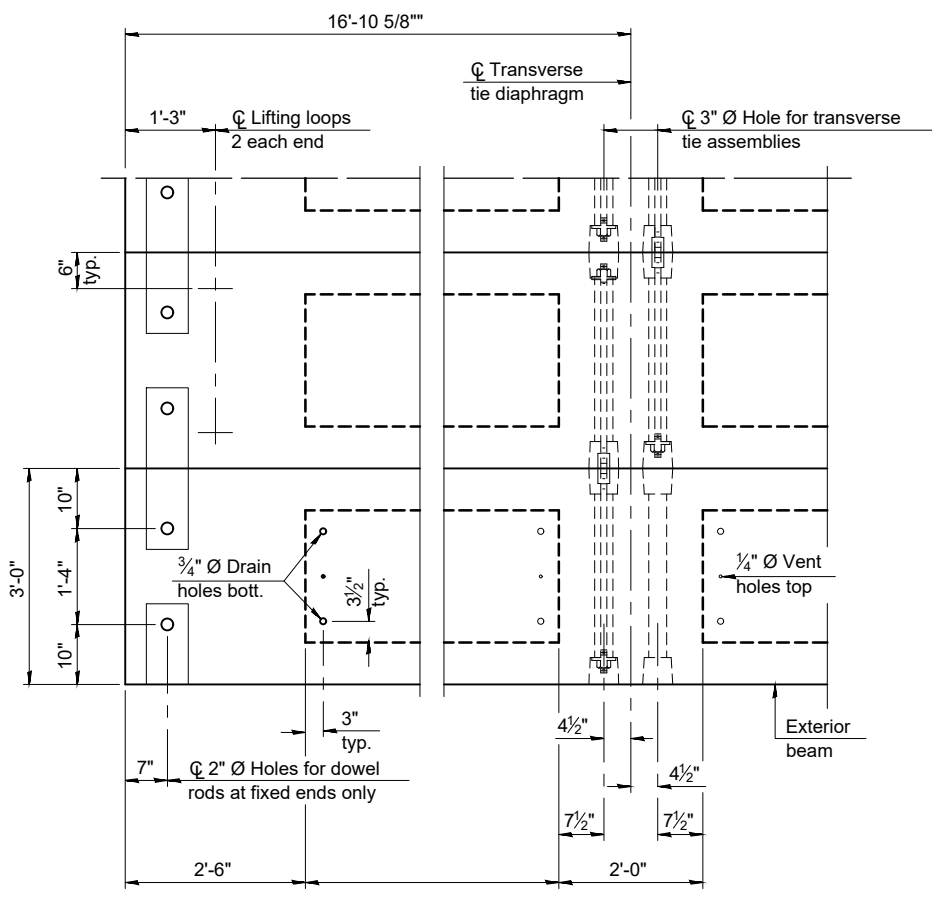
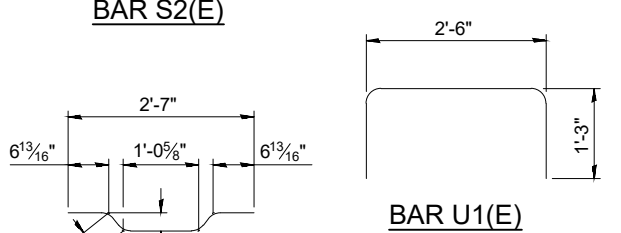
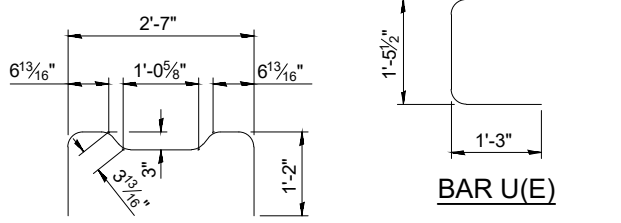
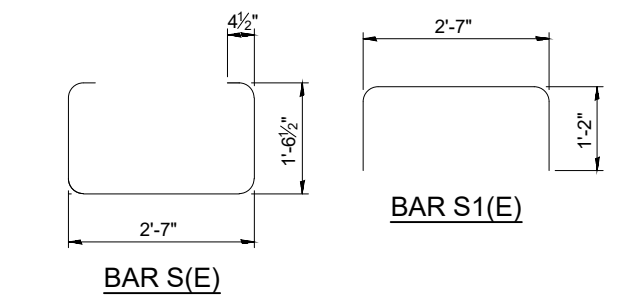
Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

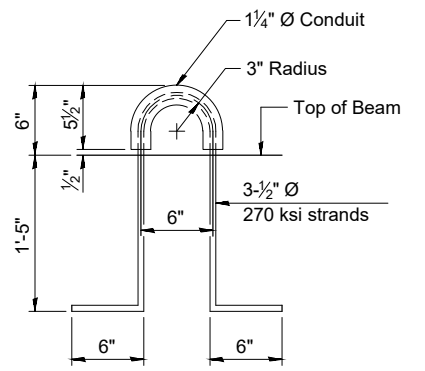


PLAN VIEW

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

NOTES

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



LIFTING LOOP DETAIL

BILL OF MATERIAL

Material	Sq. Ft.	Quantity
Precast Prestressed Conc. Deck Bms. (21" depth)		1216

PDD-2136-0

5-15-2023

SHEET 15 OF 32 "CONTRACT NO. 87852

LEVEL	BY	DATE	REVISIONS	DESCRIPTION

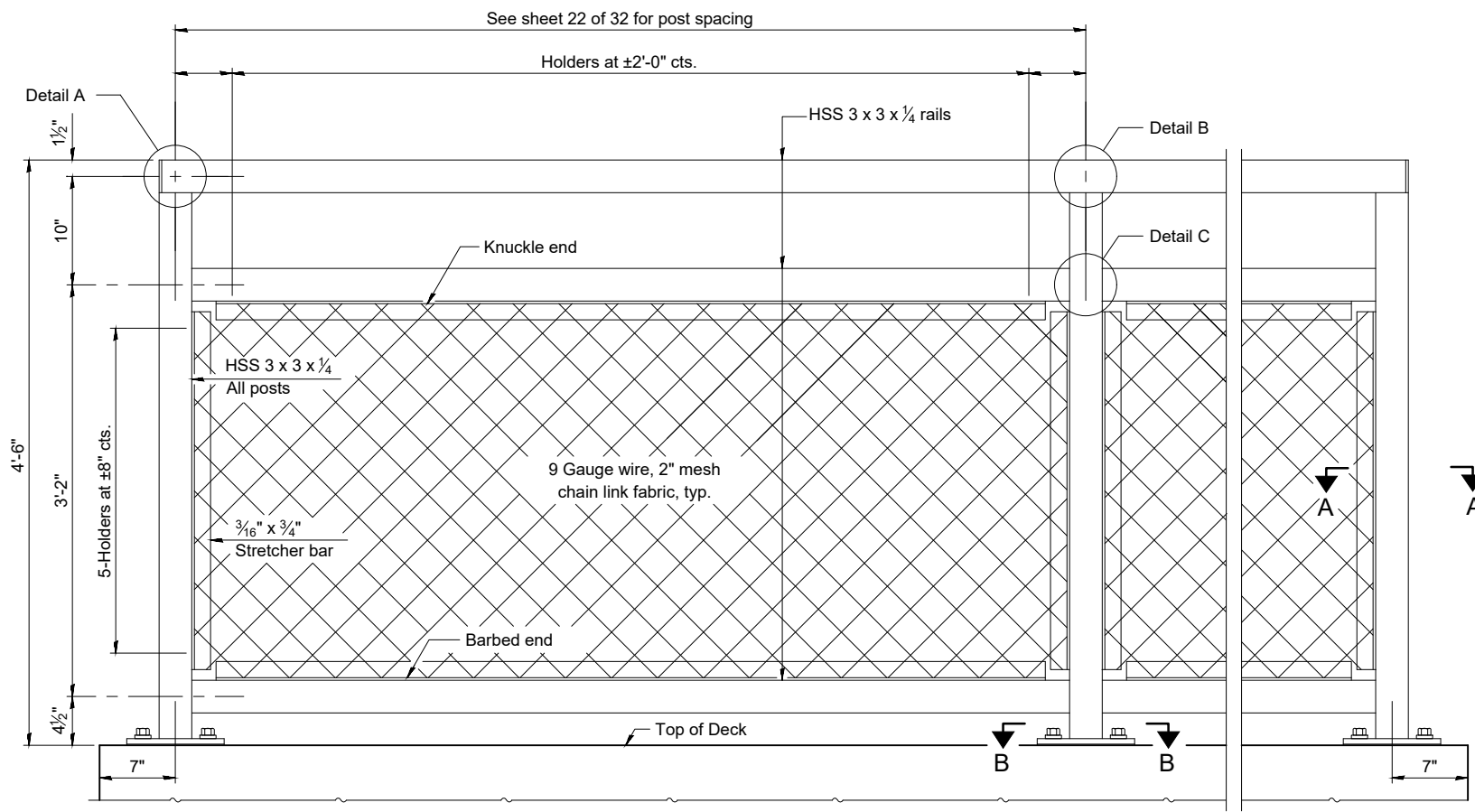

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 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

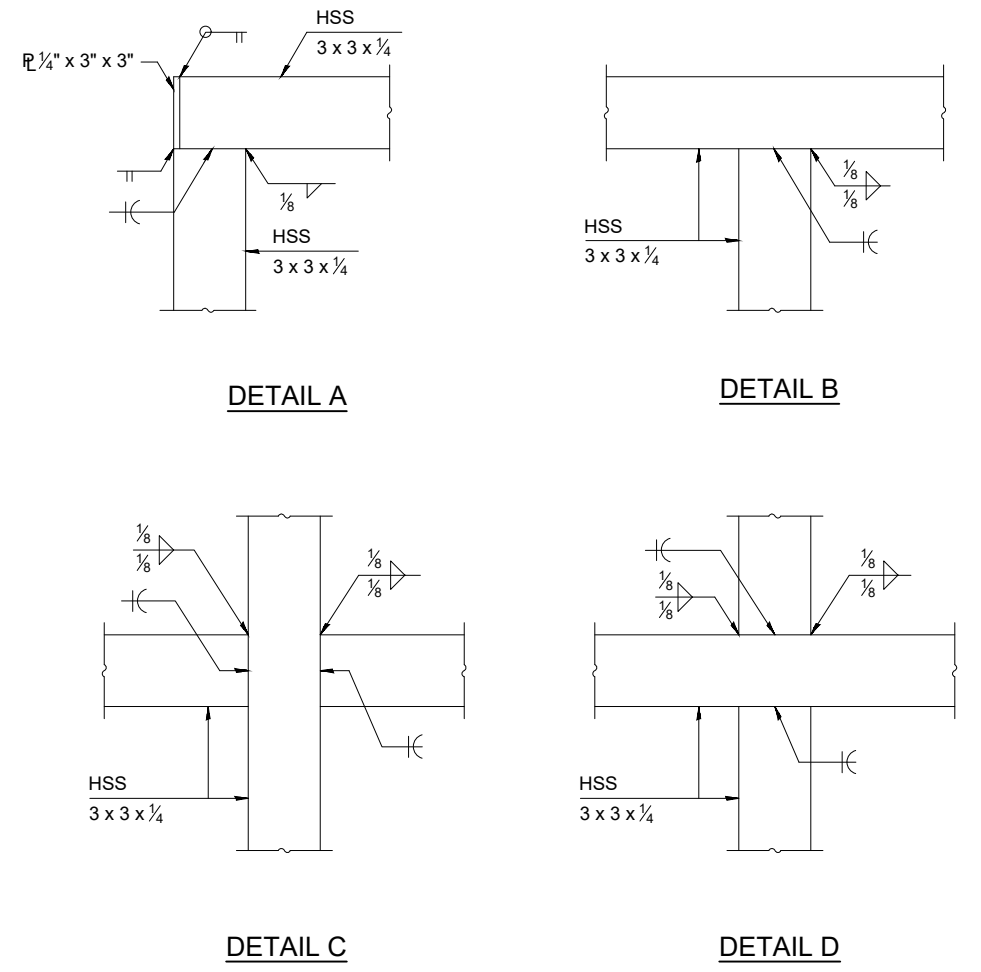
21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 050-7301 SPAN 3

CONSTRUCTION PLANS
 CURRENT AS OF: 10/21/2024
 SCALE: AS NOTED SHEET 25
 FILE NO.: 111489.00 Y- OF 43

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 Last Modified: Wednesday, October 16, 2024, 4:23:32 PM
 Plotted On: Monday, October 21, 2024, 1:05:29 PM
 By: Jim Clinard



ELEVATION BICYCLE RAILING
(Inside face)



RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29 5-15-2023

(SHEET 1 OF 2)

SHEET 16 OF 32 "CONTRACT NO. 87852

DRAWN BY: JKC	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				

PERU MORRIS
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ILLINOIS

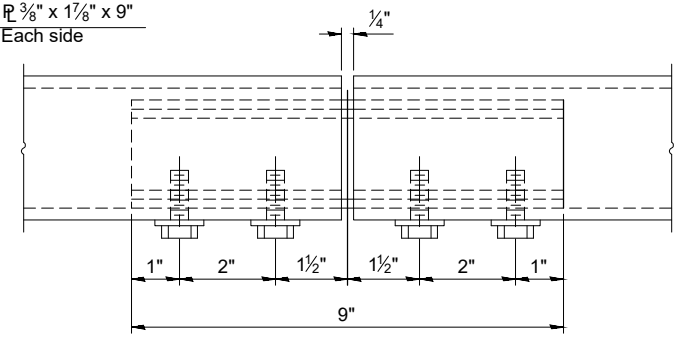
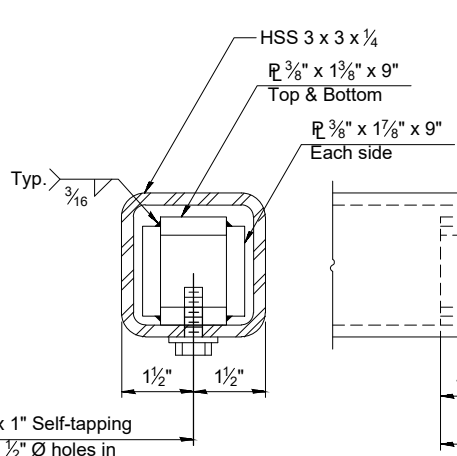
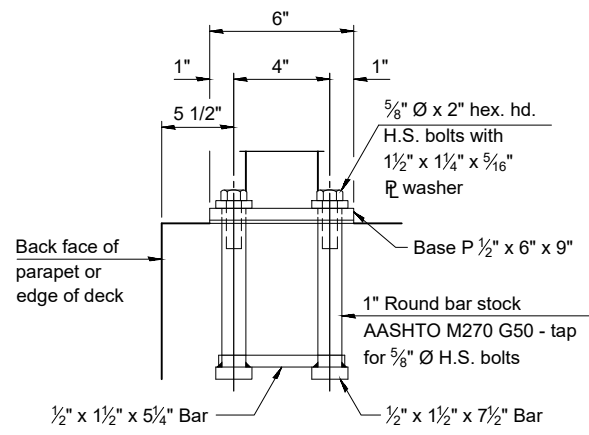
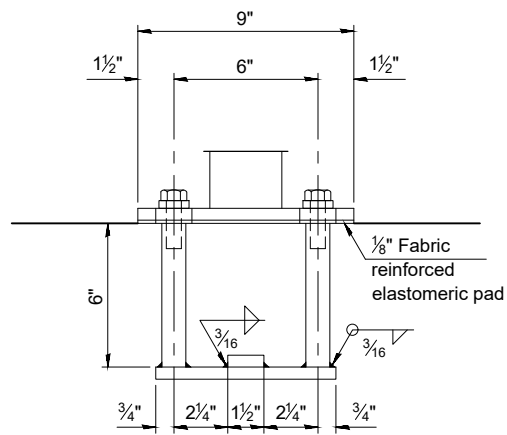
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

BICYCLE RAILING
STRUCTURE NO. 050-7301

CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 26
FILE NO.: 111489.00 Y-	OF 43

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 Plotted On: Monday, October 21, 2024 1:05:50 PM
 by Jim Clinard



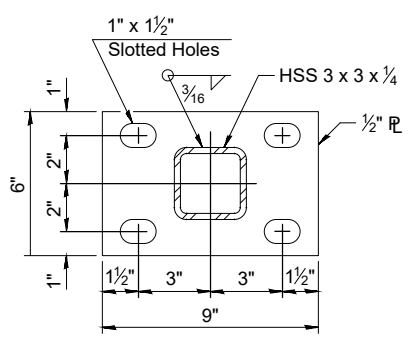
ANCHORAGE ASSEMBLY

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

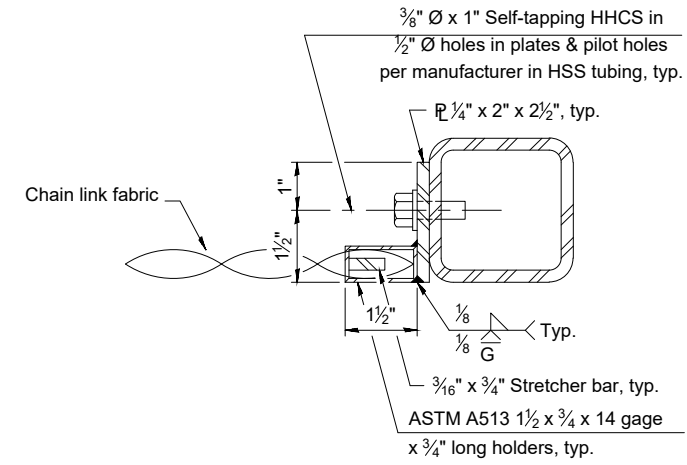
3/8" Ø x 1" Self-tapping HHCS in 1/2" Ø holes in HSS tubing and pilot holes per manufacturer in plates

MATERIAL SPLICE

Notes:
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing. All heavy hex nuts shall be according to ASTM A 563 grade DH. All fully threaded anchor rods shall be ASTM F1554 grade 105. The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn. Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



SECTION B-B



SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	109

(SHEET 2 OF 2)

SHEET 17 OF 32 "CONTRACT NO. 87852

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

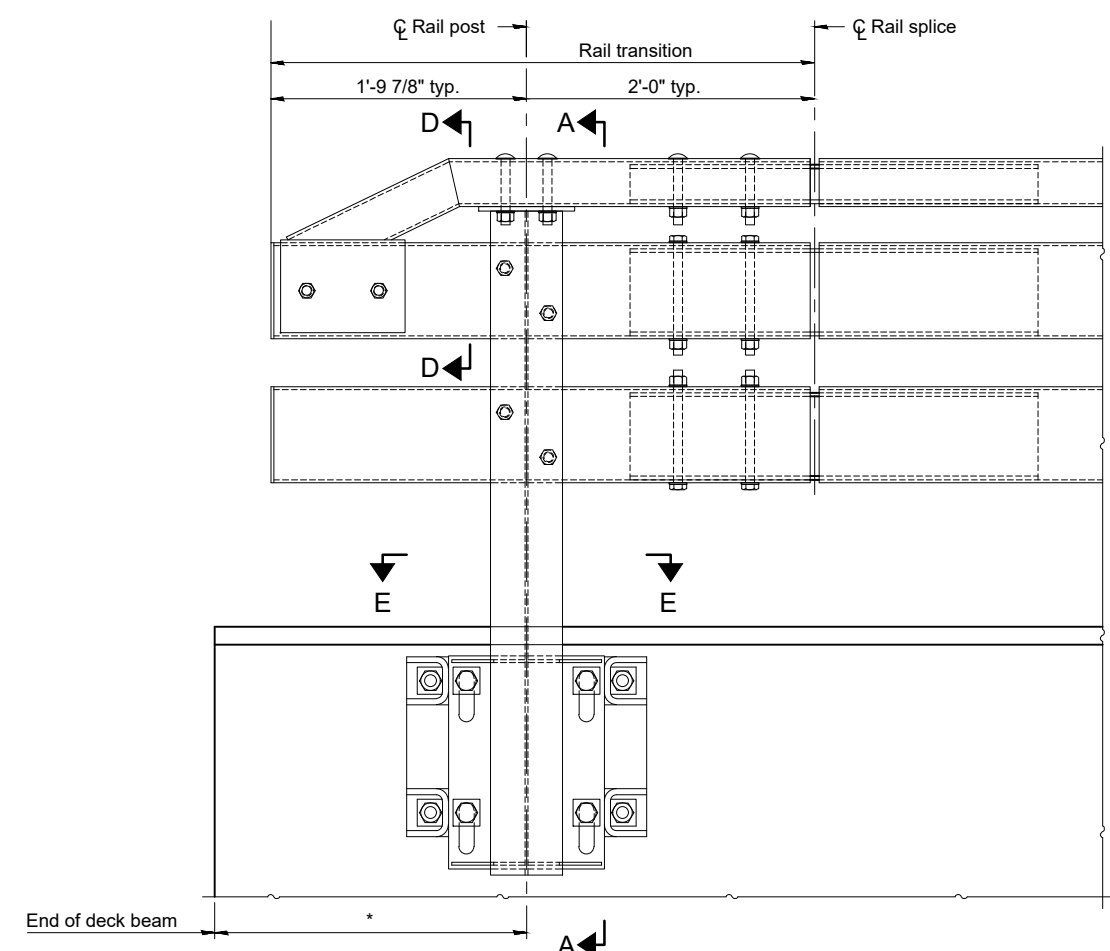

 PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

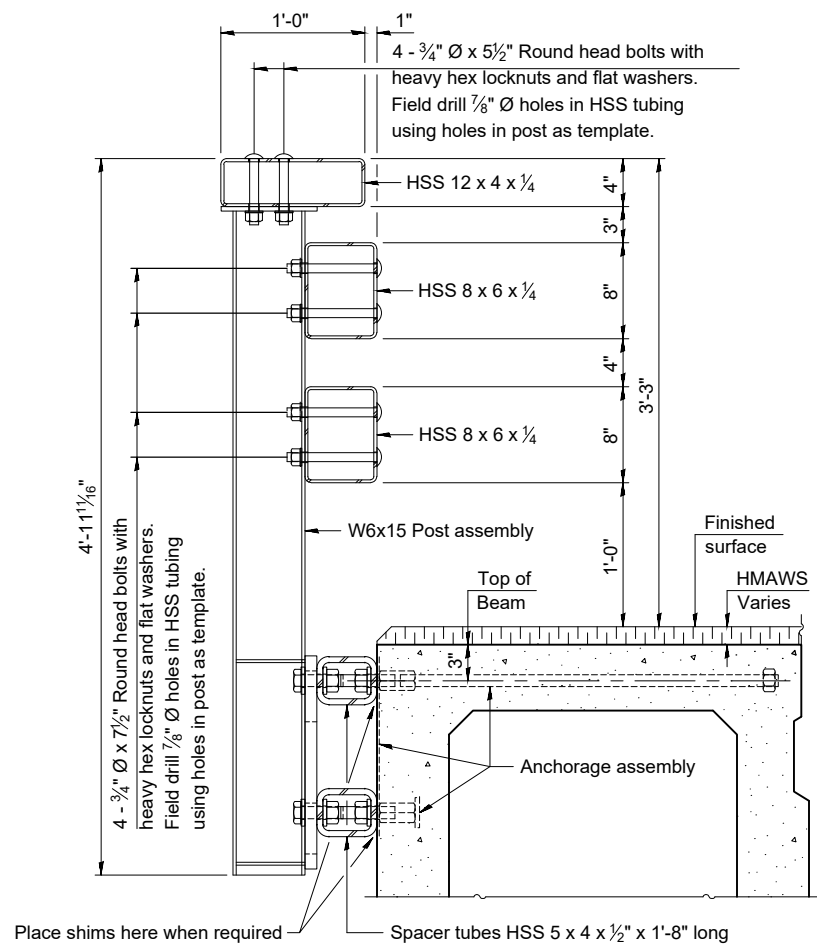
BICYCLE RAILING
STRUCTURE NO. 050-7301

CONSTRUCTION PLANS
 CURRENT AS OF: 10/21/2024
 SCALE: AS NOTED
 FILE NO.: 111489.00 Y- OF 43

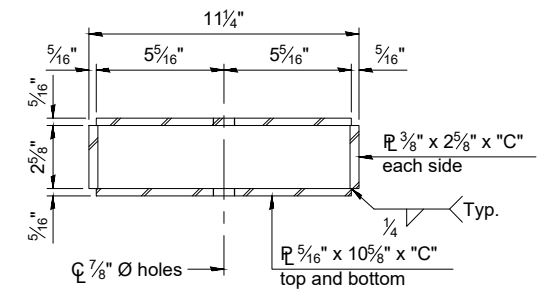
CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\11111489-JD-Wolnut_Street Bridge Superstructure Replacement\CAD\026-031-RAILING DETAILS.dwg Last Modified: Wednesday, October 16, 2024 4:23:32 PM Plotted On: Monday, October 21, 2024 1:06:17 PM by Jim Clinard



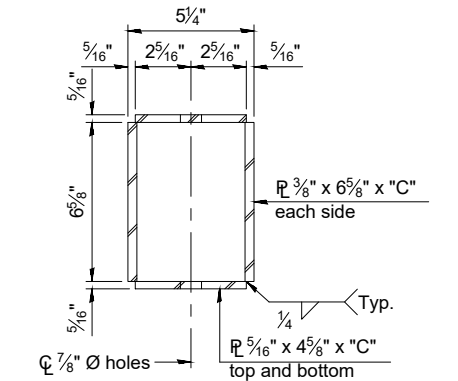
OUTSIDE ELEVATION OF RAIL
 * 3'-0" at abutments; 3'-0" min. at piers



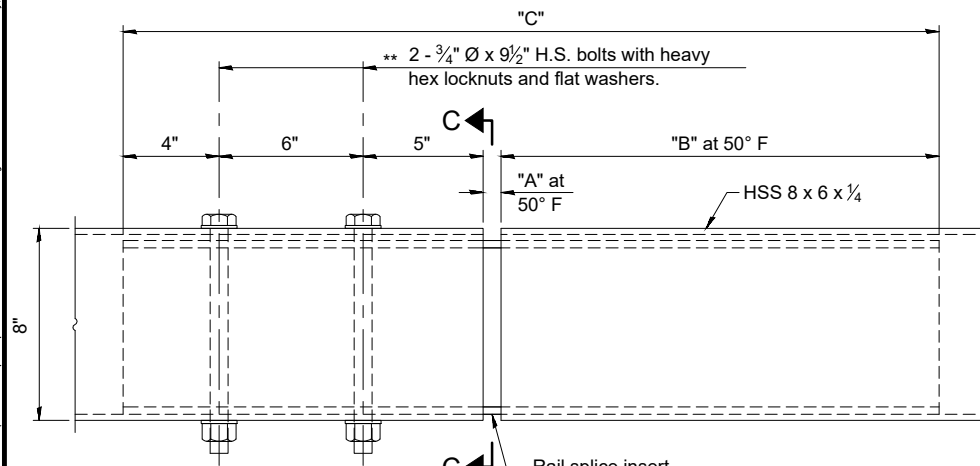
SECTION A-A



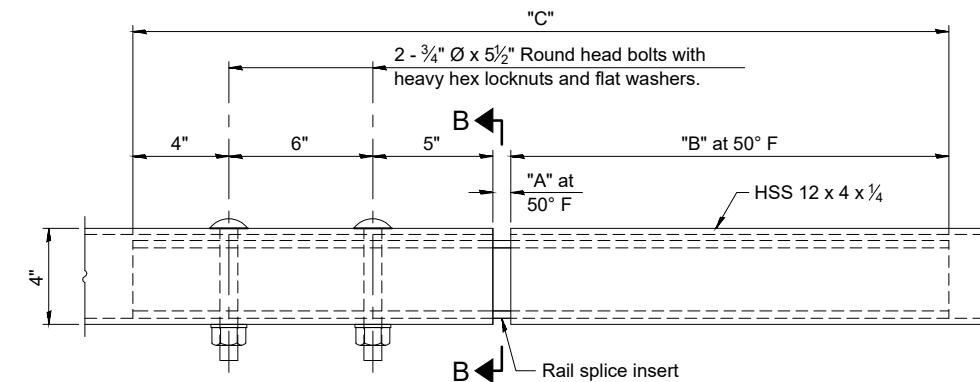
SECTION B-B



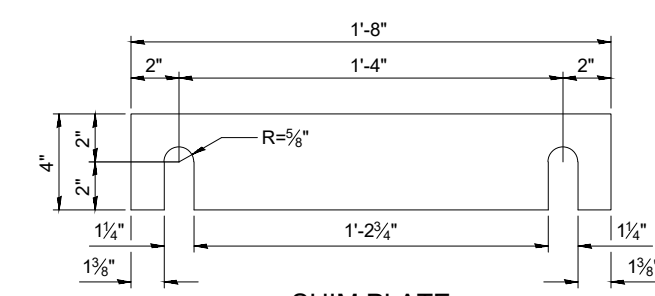
SECTION C-C



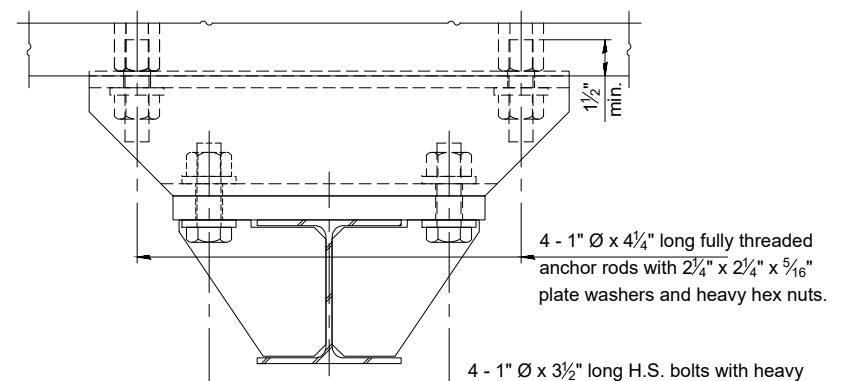
MIDDLE & BOTTOM RAIL SPLICE ELEVATION
 ** Bolt orientation shown for middle rail. Flip for bottom rail.



TOP RAIL SPLICE ELEVATION



SHIM PLATE



SECTION E-E

2 - 3/4" Ø x 7 1/2" Round head bolts with heavy hex locknuts and flat washers. Field drill 7/8" Ø holes in bent plate as template.

SECTION D-D

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	1/2"	1'-6"	2'-9 1/2"
Over Strip Seal Jt.	≤4"	2 1/2"	1'-8"	3'-1 1/2"

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

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS
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 ILLINOIS

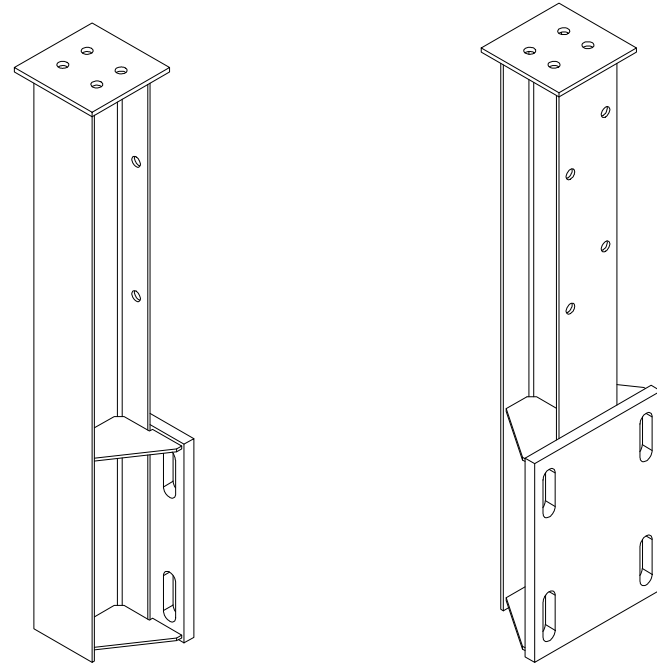
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

STEEL RAILING, TYPE IL-OH
STRUCTURE NO. 050-7301

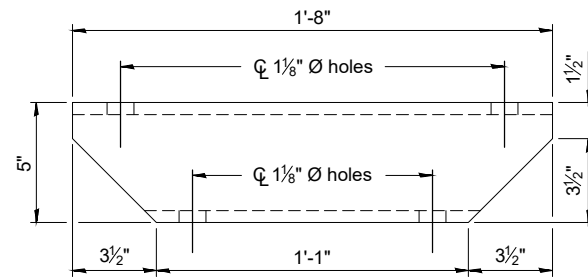
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	SHEET 28
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

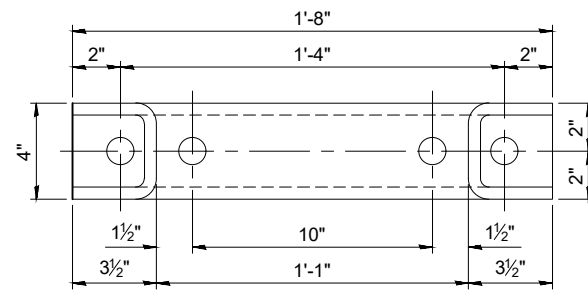
CHAMLIN & ASSOCIATES, INC. © 2023
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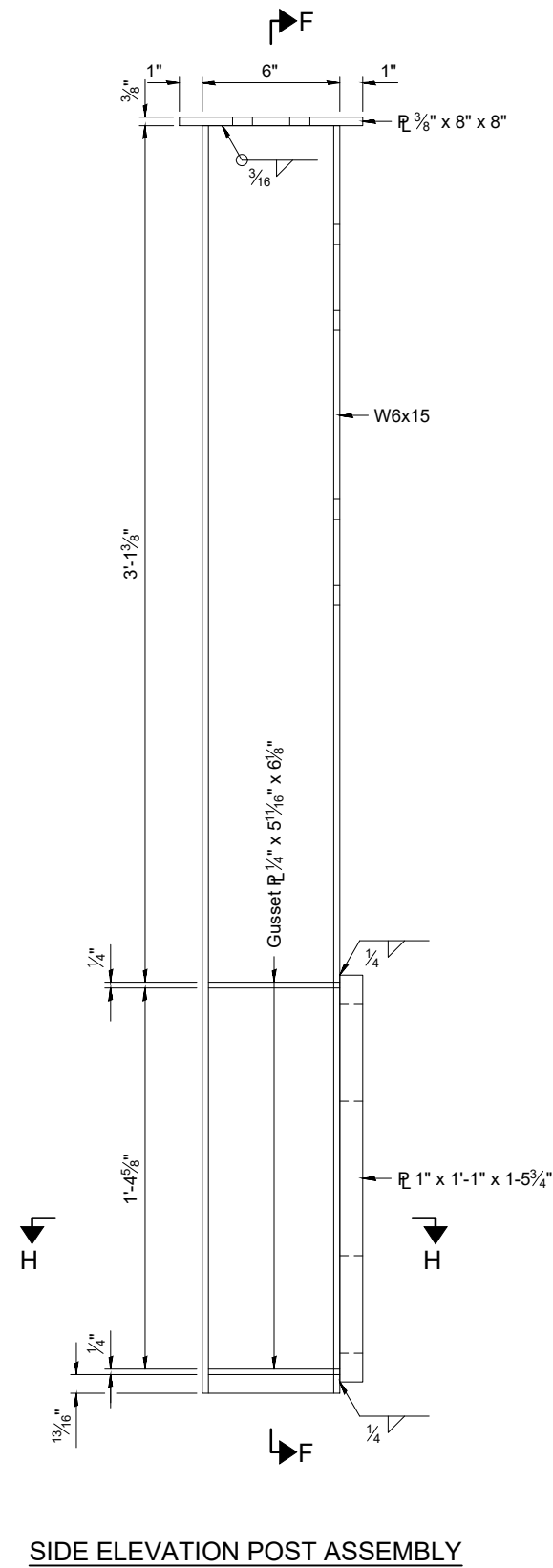
ISOMETRIC VIEWS POST ASSEMBLY



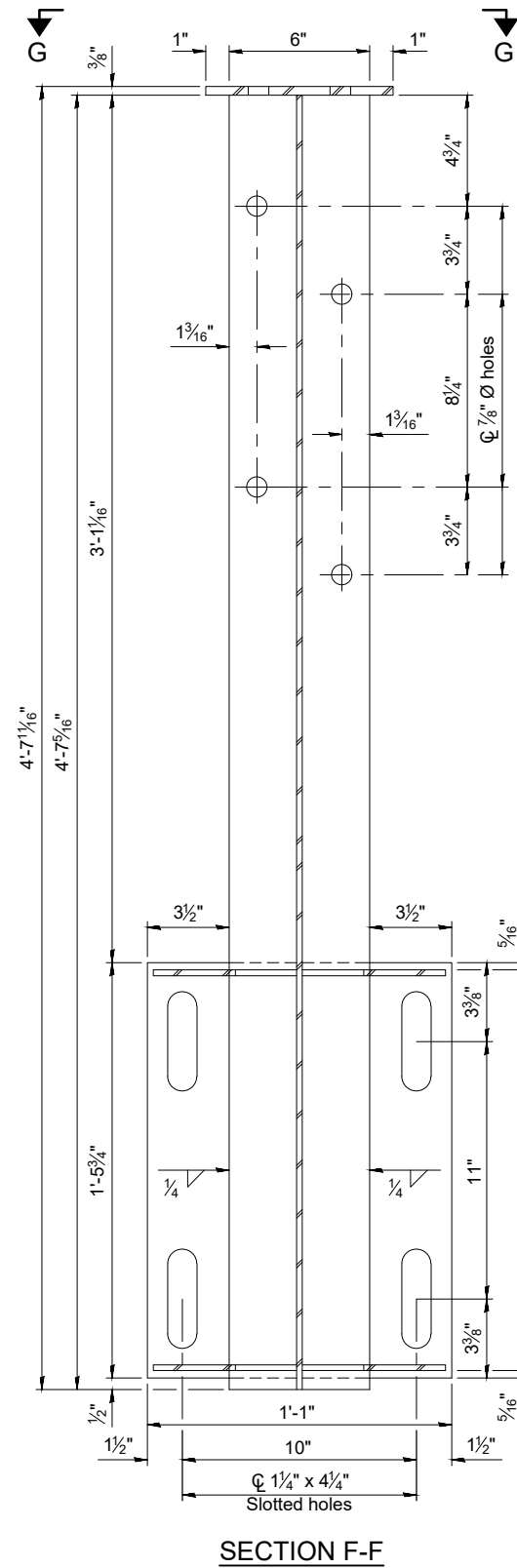
SPACER TUBE PLAN



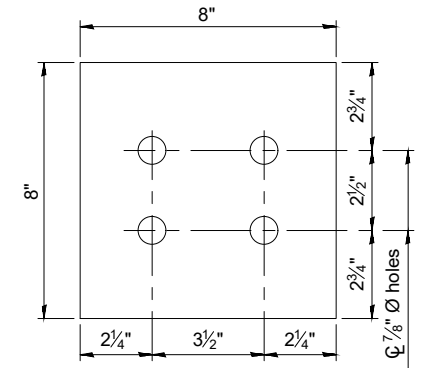
SPACER TUBE ELEVATION



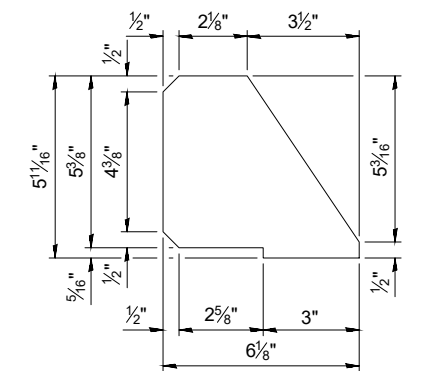
SIDE ELEVATION POST ASSEMBLY



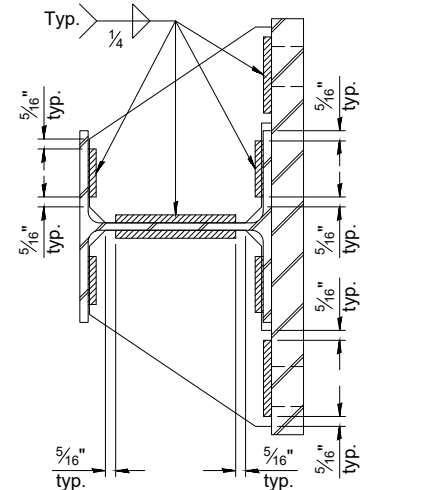
SECTION F-F



VIEW G-G
(Showing top plate)



GUSSET PLATE



SECTION H-H
(Showing gusset plate welds)

DRAWN BY: JKC	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				



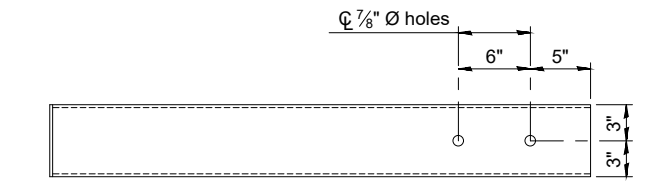
PERU MORRIS
OTTAWA MORTON
ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

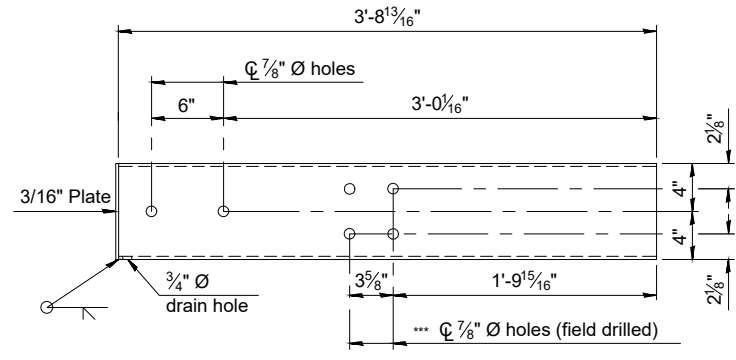
STEEL RAILING, TYPE IL-OH
STRUCTURE NO. 050-7301

CONSTRUCTION
PLANS

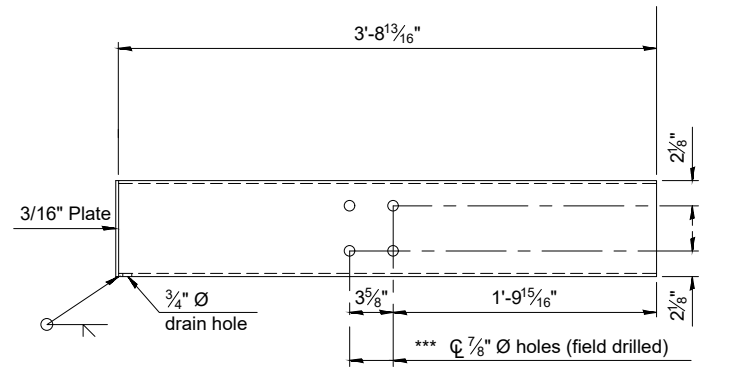
CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 29
FILE NO.: 111489.00 Y-	OF 43



PLAN OF MIDDLE AND BOTTOM RAIL TRANSITION

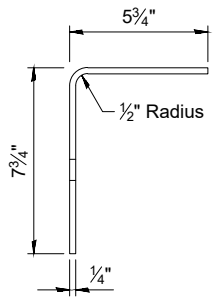


INSIDE ELEVATION OF LEFT MIDDLE RAIL TRANSITION

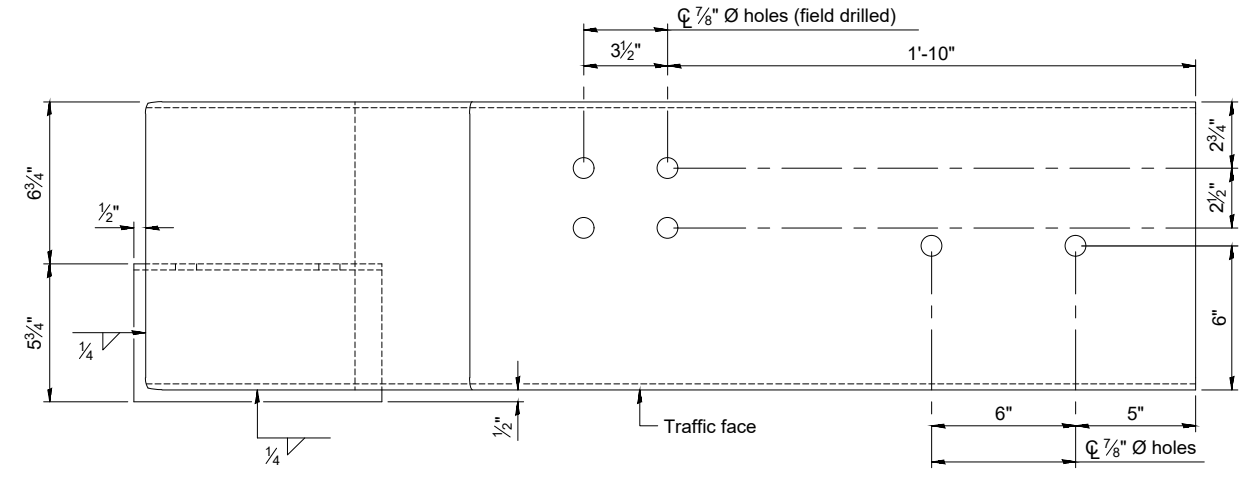


INSIDE ELEVATION OF LEFT BOTTOM RAIL TRANSITION

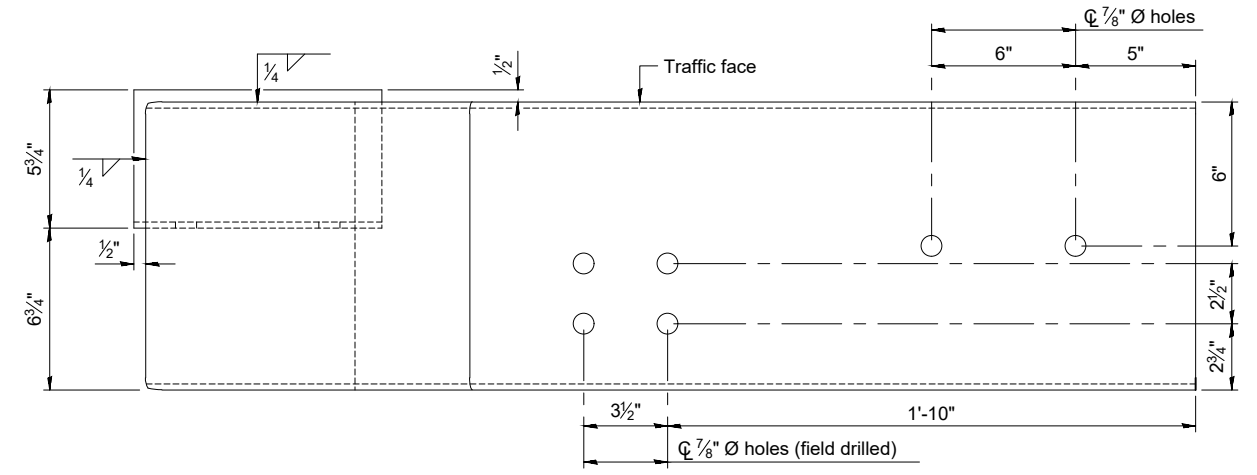
*** Hole orientation is flipped as shown with the dashed holes for the right side piece.



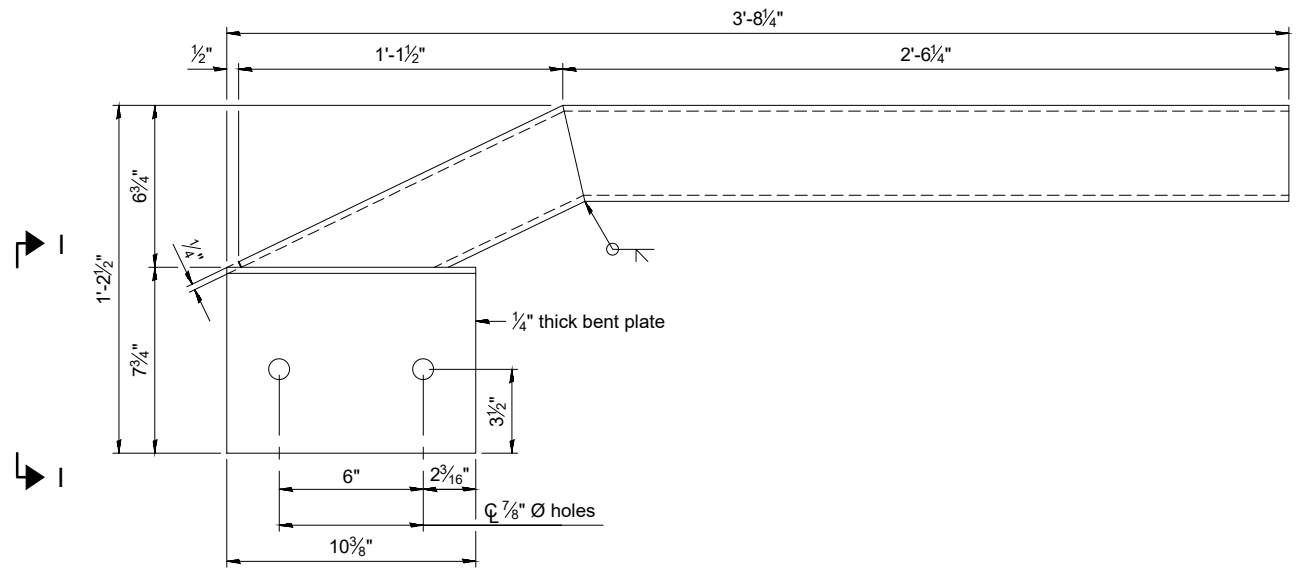
VIEW I-I



PLAN OF LEFT TOP RAIL TERMINATION ASSEMBLY



PLAN OF RIGHT TOP RAIL TERMINATION ASSEMBLY



INSIDE ELEVATION OF LEFT TOP RAIL TERMINATION ASSEMBLY

(Right Similar)

CHAMLIN & ASSOCIATES, INC. © 2023 Drawing Name: G:\Users\1111489-00-Walnut Street Bridge Superstructure Replacement\CAD\026-031-RAILING DETAILS.dwg Last Modified: Wednesday, October 21, 2024 4:23:32 PM Plotted On: Monday, October 21, 2024 1:07:03 PM by Jim Clinard

LEVEL	BY	DATE	DESCRIPTION

CA
Chamlin & Associates

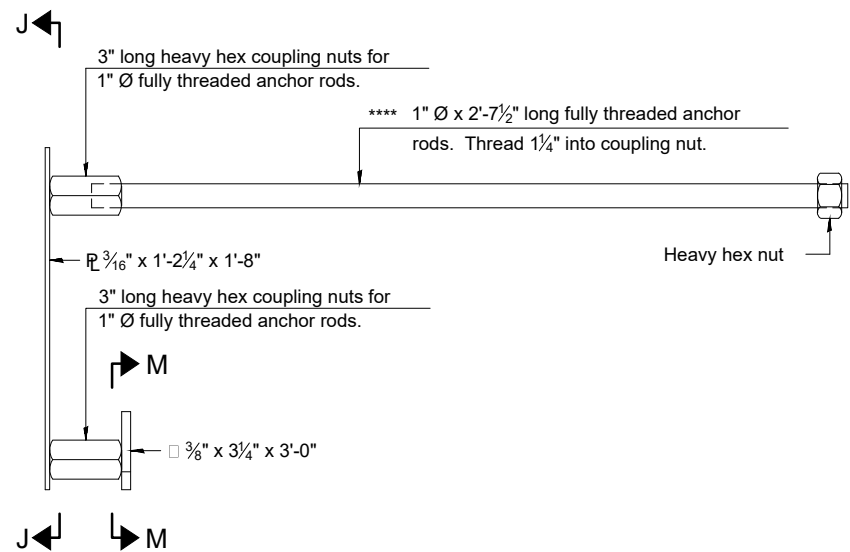
PERU MORRIS
OTTAWA MORTON
ILLINOIS

**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

**STEEL RAILING, TYPE IL-OH
STRUCTURE NO. 050-7301**

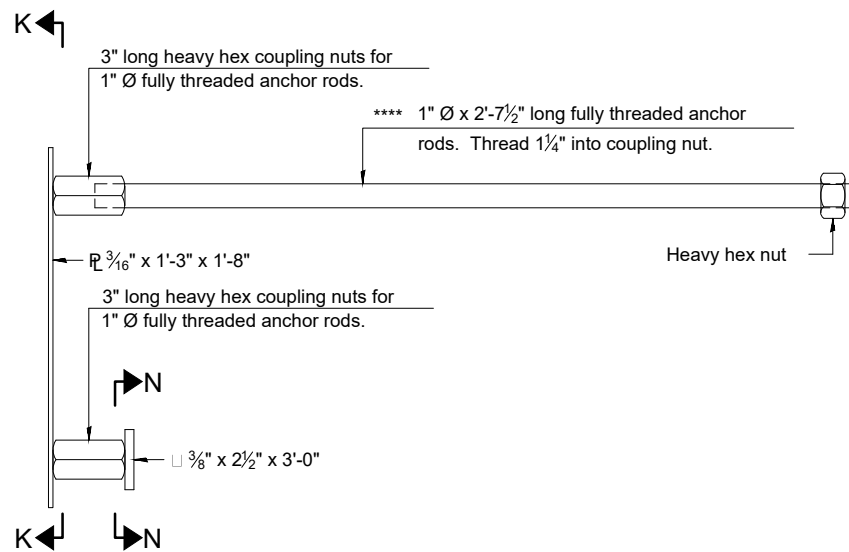
CONSTRUCTION PLANS	CURRENT AS OF: 10/21/2024	
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	FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
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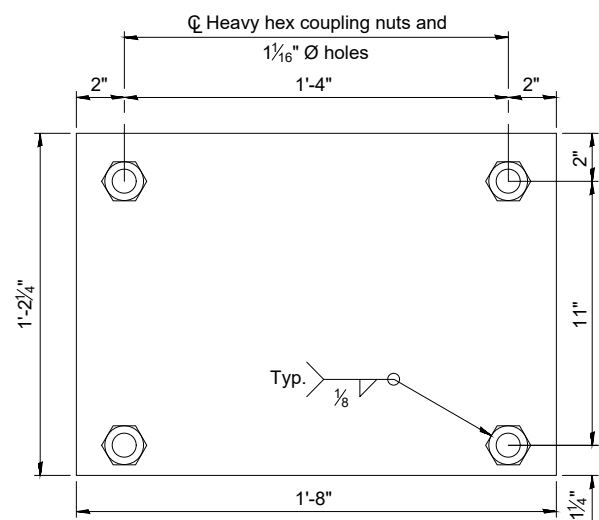


ANCHORAGE ASSEMBLY
(for 17" deck beams)

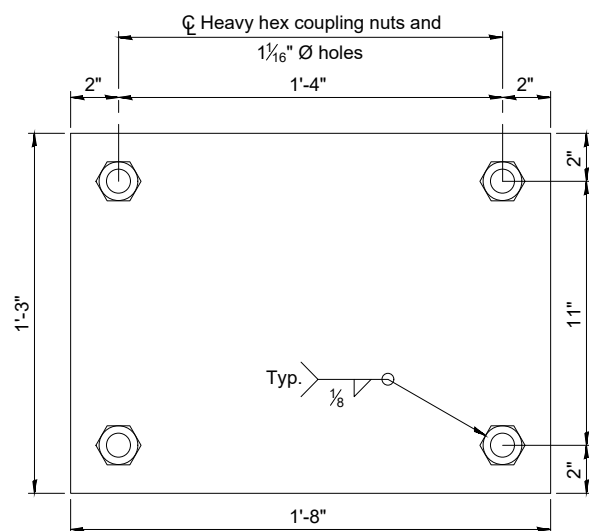
**** For skewed deck beams use 1" \varnothing x 1'-3" long fully threaded anchor rods at acute corners of beam ends.



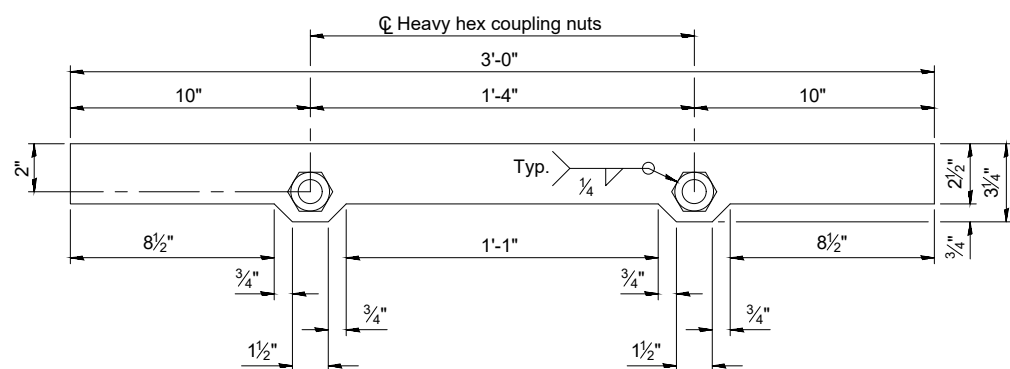
ANCHORAGE ASSEMBLY
(for 21" thru 42" deck beams)



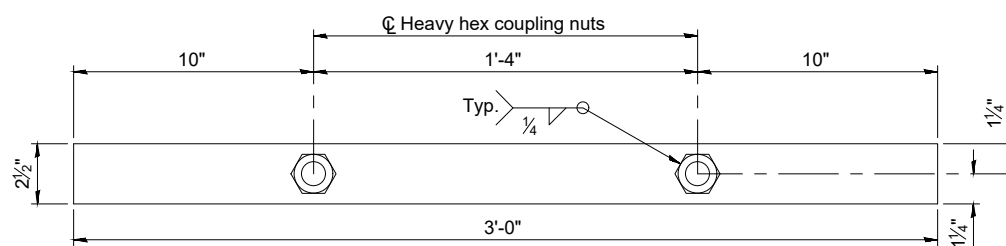
SECTION J-J



SECTION K-K

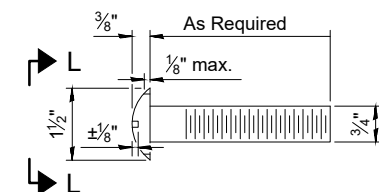


SECTION M-M

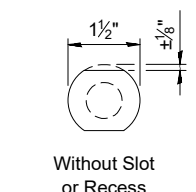
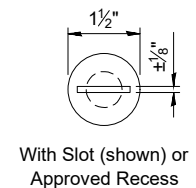


SECTION N-N

Notes:
 All plates shall be AASHTO M270 grade 50.
 All HSS tubing shall be ASTM A500 grade C.
 All heavy hex nuts including heavy hex coupling nuts shall be according to ASTM A563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 All round head bolts shall be ASTM A449.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 One 3/16" thick shim per post and a sufficient number of shims of various thicknesses, built to the dimensions shown in the shim plate detail, shall be provided to adjust posts for plumbness and horizontal alignment. Cost included with Steel Railing, Type IL-OH.
 The spacer tubes shall be fastened to the deck beams snug tight and given an additional 1/2 turn. The 1" diameter high strength bolts used to connect the spacer tubes to the post assemblies shall be tightened according to Article 505.04(f)(2) of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.



ROUND HEAD BOLT DETAIL




VIEW L-L

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, (Special)	Foot	108

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

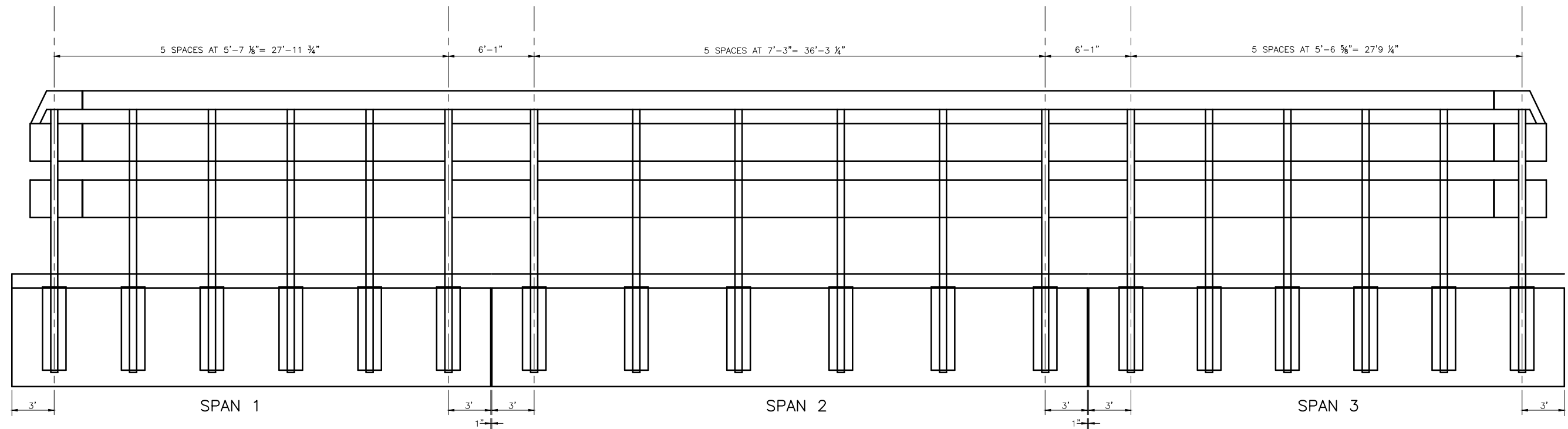
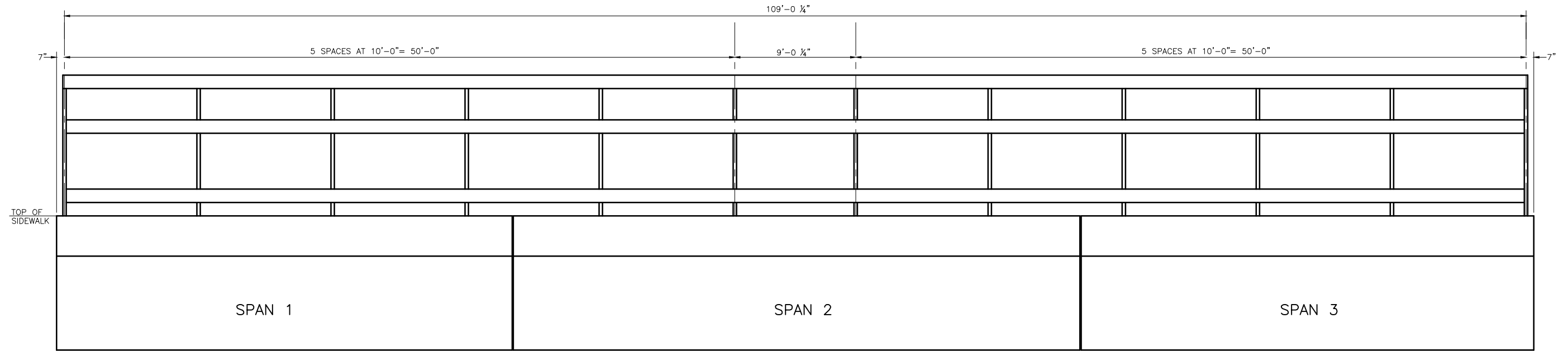

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 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

STEEL RAILING, SPECIAL
STRUCTURE NO. 050-7301

CONSTRUCTION PLANS
 CURRENT AS OF: 10/21/2024
 SCALE: AS NOTED
 FILE NO.: 111489.00 Y- OF 43

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 Drawing Name: G:\Users\11111489\11111489-00-Walnut Street Bridge Superstructure Replacement\CAD\032-RAIL POST SPACING.dwg
 Last Modified: Wednesday, October 16, 2024 4:25:08 PM
 Plotted On: Monday, October 21, 2024 1:02:38 PM
 by Jim Cloward



SHEET 22 OF 32 "CONTRACT NO. 87852"

DRAWN BY: DS	REVISIONS			
CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION
DATE: 01/2024				



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 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

RAIL POST SPACING
STRUCURE NO. 050-7301

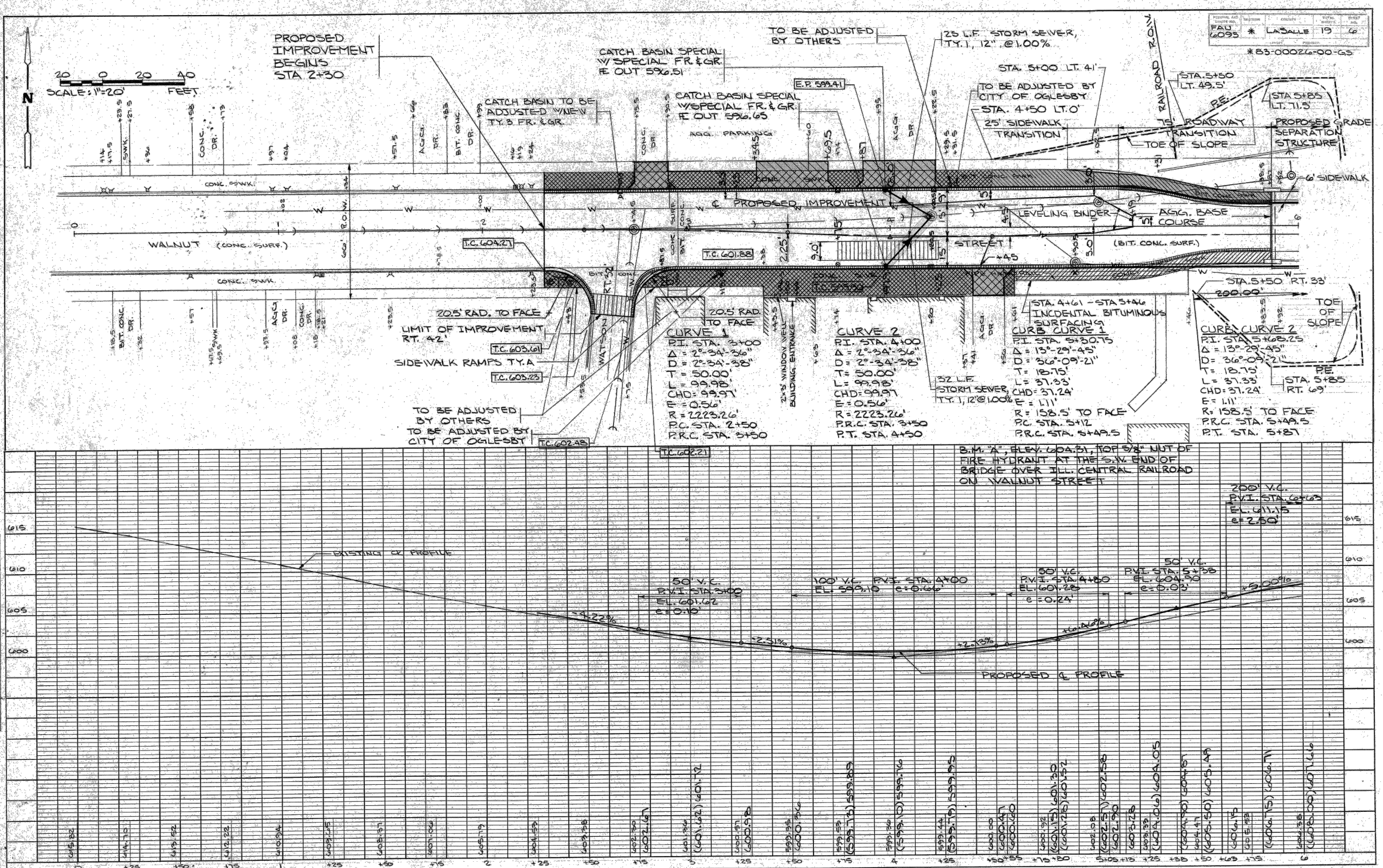
CONSTRUCTION PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 32
FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\11111489-00-Walnut Street Bridge Superstructure Replacement\CAD\032-042-EXISTING-BRIDGE-PLANS.dwg Last Modified: Thursday, October 17, 2024 4:30:39 PM Plotted On: Monday, October 21, 2024 12:56:50 PM by Jim Clined

DATE	BY	REVISIONS

DATE	BY	REVISIONS



FAU 6095	* LASALLE 19	6
#83-00026-00-65		

PLATE 1 - PLAN PROFILE B.P.R. STANDARD
TELETYPE POST, CHICAGO

SHEET 23 OF 32 "CONTRACT NO. 87852

DATE	BY	REVISIONS	DESCRIPTION
01/2024	CHECKED		

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**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

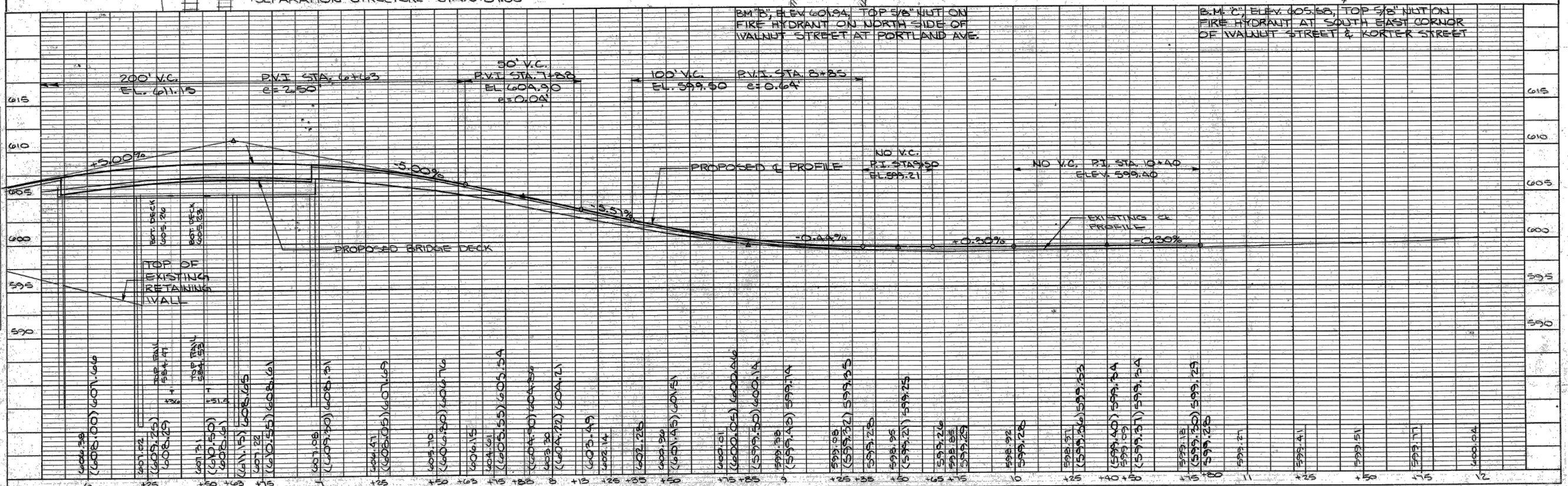
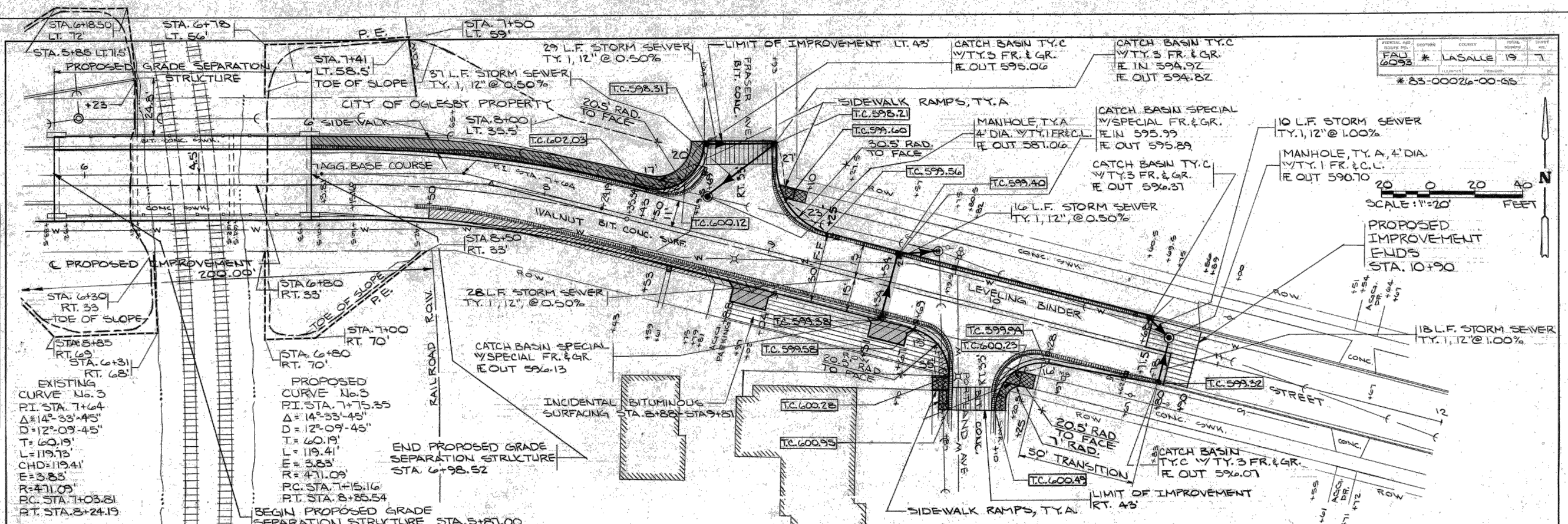
**EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301**

CURRENT AS OF: 10/21/2024	SHEET 33
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

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NO. 100	



FEDERAL AID DISTRICT NO.	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6093	LASALLE	19	7
# 83-00026-00-66			

SCALE: 1"=20' FEET

SHEET 24 OF 32 "CONTRACT NO. 87852

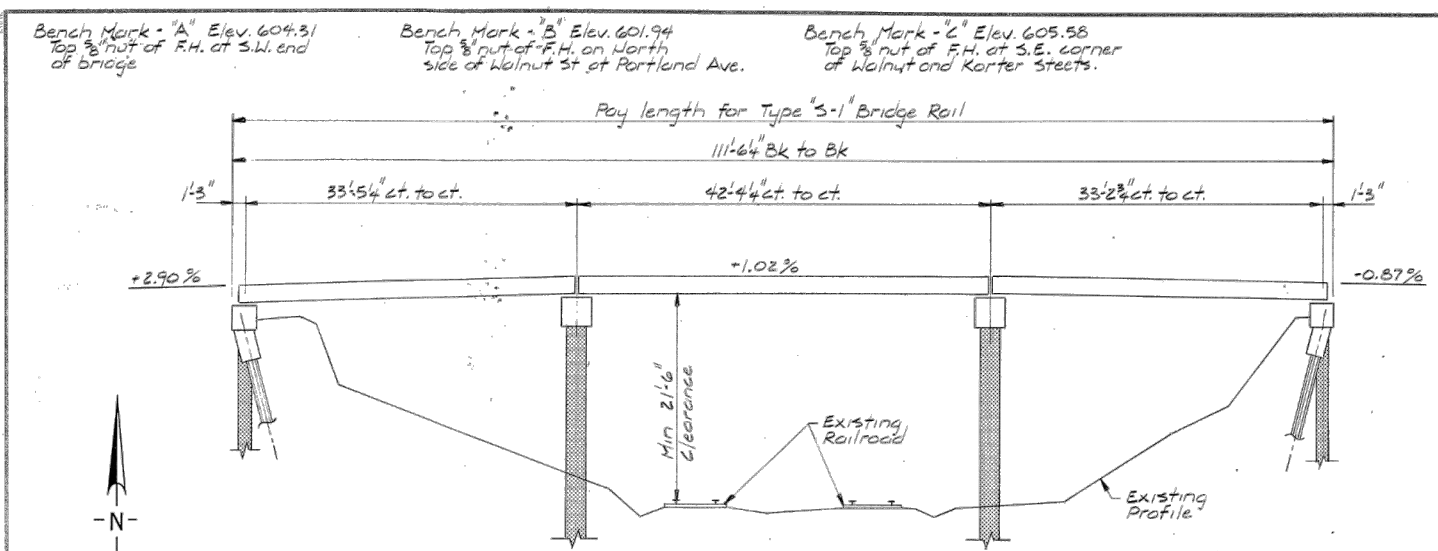
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CHECKED BY: CHECKED	LEVEL
DATE: 01/2024	BY
	DATE
	DESCRIPTION


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 OTTAWA MORTON
 ILLINOIS
 Chamlin & Associates

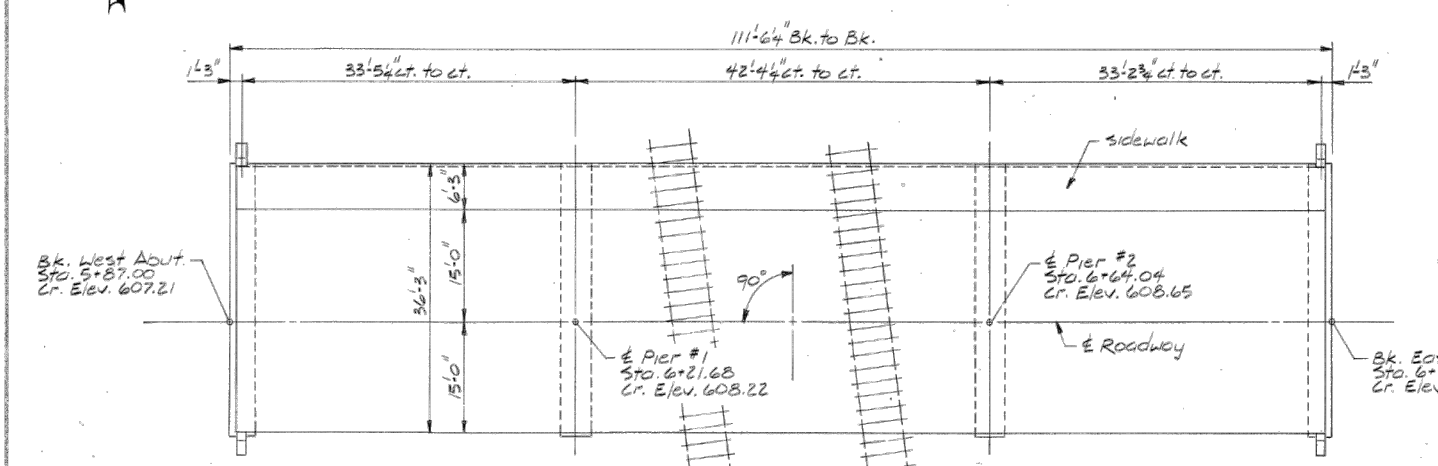
WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	SHEET 34
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	



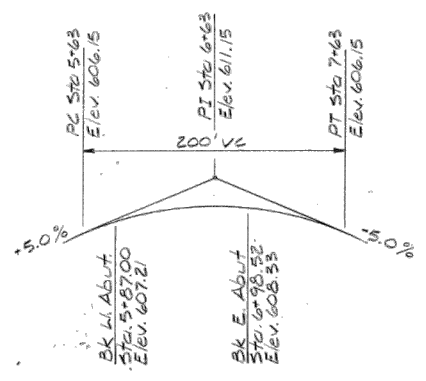
ELEVATION



PLAN

STATION 6+42.76
 BUILT 198_ BY
 CITY OF OGLESBY
 SECTION 83-00026-00-GS
 FAU RT 6093 PROJ. BH-M-5036 (10)
 STR. NO. 050-7301 LOADING HS 20

LETTERING FOR NAME PLATE
 Locate Name Plate at Northeast corner of Bridge (See Std 2113-2)



PROFILE

DESIGN STRESSES

Superstructure :
 $f'_c = 5000$ psi
 $f_y = 60000$ psi
 $f'_c = 4000$ psi
 $f_y = 270000$ psi ($1/2$ " ϕ strand)
 $f_{si} = 189000$ psi ($1/2$ " ϕ strand)

Substructure :
 $f'_c = 3500$ psi
 $f_y = 60000$ psi

Designed using 1983 AASHTO Specifications

HS 20-44 Loading plus 25 psf allowance for future wearing surface

TOTAL BILL OF MATERIAL

Item	Unit	Sub		Total
		Super	Piers Abuts	
Concrete Removal	Cu.Yds		217	217
Class X Concrete	Cu.Yds	51	30	98
Reinforcement Bars	Lbs	1293	2154	5425
R.P.C. Deck Beams 21" Depth	Sq.Ft.	3925		3925
Furnishing Steel Piles HPB*36	Lin.Ft.		189	189
Driving Steel Piles	Lin.Ft.		189	189
Test Pile Steel HPB*36	Each		1	1
Steel Railing Type "S-1"	Lin.Ft.	223		223
Bituminous Concrete Sur Cl I	Ton	62		62
Waterproofing Membrane System	Sq.Yds	364		364
P.C. Mortar Fairing Course	Lin.Ft.	981		981
Furn & Erect Strut Steel	Lbs	2412		2412
Name Plate	Each	1		1

* See Special Provisions for optional overlay systems

Structural No. 3865
 Sept. 28, 1984

I certify that to the best of my knowledge, information, and belief, this bridge is structurally adequate for the design loadings shown on the plans. The design is economical for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

GENERAL PLAN & ELEVATION
 WALNUT ST. GRADE SEPARATION
 SECTION 83-00026-00-GS
 LASALLE COUNTY
 STATION 6+42.76

DESIGNED LAL
 CHECKED DNF
 DRAWN KMS
 CHECKED DNF

HANSON ENGINEERS INCORPORATED
 SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 84-P1008
 DATE

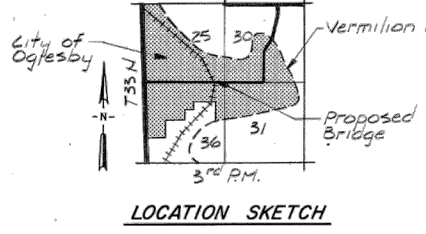
SHEET 1 OF 8

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6093	*	LaSalle	19	8

* 83-00026-00-GS

GENERAL NOTES

- All work shall comply with the "Standard Specifications for Road and Bridge Construction", adopted October 1, 1983.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M53, Grade 60.
- Class X Concrete shall be used throughout except in the Deck Beams.
- The Contractor shall drive one (1) test pile in a permanent location at the West Abutment prior to ordering the remaining piles.
- ** The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications, except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
- Plan dimensions and details relative to existing structure have been taken from existing plans and from as built surveys furnished by Chamlin & Associates and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- ** This surface treatment is for use with the Class I overlay with Waterproofing Membrane System. See Special Provisions for surface treatment with optional overlay systems.



LOCATION SKETCH

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REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS
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 ILLINOIS

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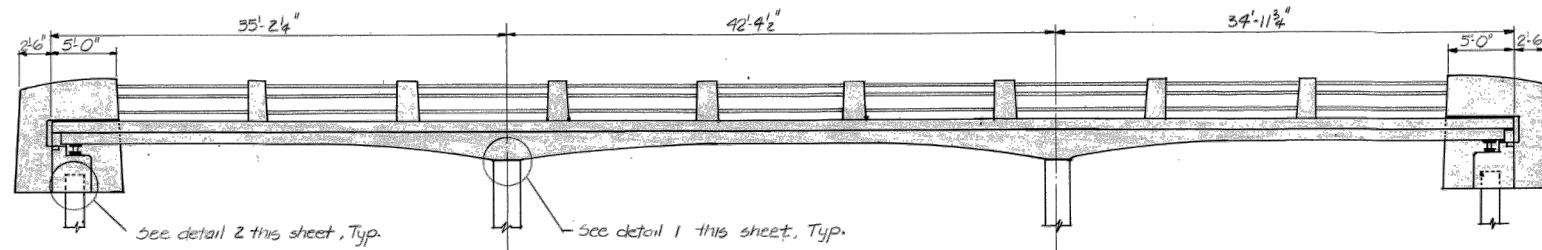
WALNUT STREET BRIDGE
 SECTION 20-00821-00-BR
 LASALLE COUNTY

EXISTING BRIDGE PLANS
 STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	SHEET 35
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

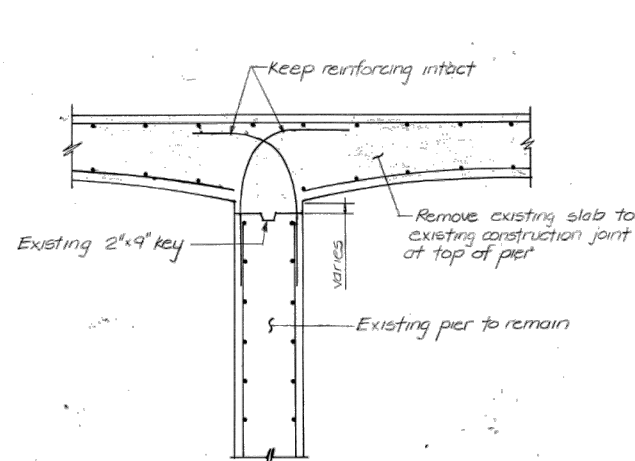
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FAU 6093	*	LaSalle	19	9
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 83-00026-00-45

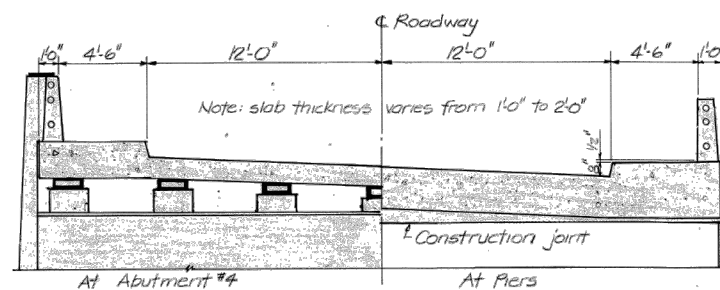


Note: Piers must be stabilized with respect to horizontal forces prior to deck removal.

EXISTING ELEVATION



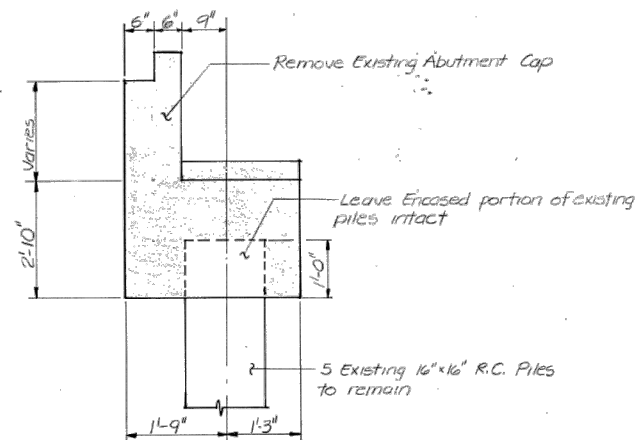
DETAIL 1
(DETAIL AT SLAB/PIER)



TYPICAL CROSS SECTION

NOTES

1. Cost for concrete removal shall include removal of: specified concrete, handrail, rollers, blast plates, misc. structural steel, reinforcing steel, cleaning of rebar that are to remain, and all other related items.
2. Contractor is responsible for the design and implementation of a bracing/shoring system that will stabilize the existing piers from all anticipated horizontal forces, during removal and replacement of deck.
3. [Hatched pattern symbol] Indicates portion of existing structure that is to be removed.



DETAIL 2
(DETAIL AT ABUTMENT)

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	277.0

**SUPERSTRUCTURE
WALNUT ST. GRADE SEPARATION
SECTION 83-00026-00-6S
LASALLE COUNTY
STATION 6+42.76**

DESIGNED LAL
CHECKED DJF
DRAWN LAL
CHECKED DJF



FILE NO.
84P1008
DATE

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REVISIONS	LEVEL	BY	DATE	DESCRIPTION

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OTTAWA MORTON
ILLINOIS

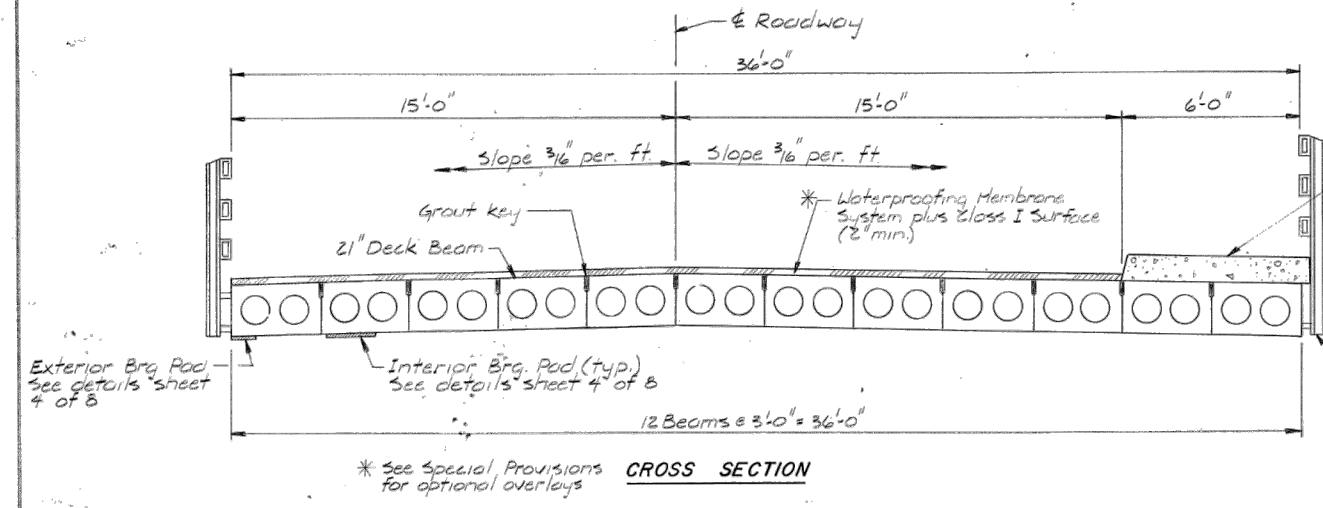
**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

**EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301**

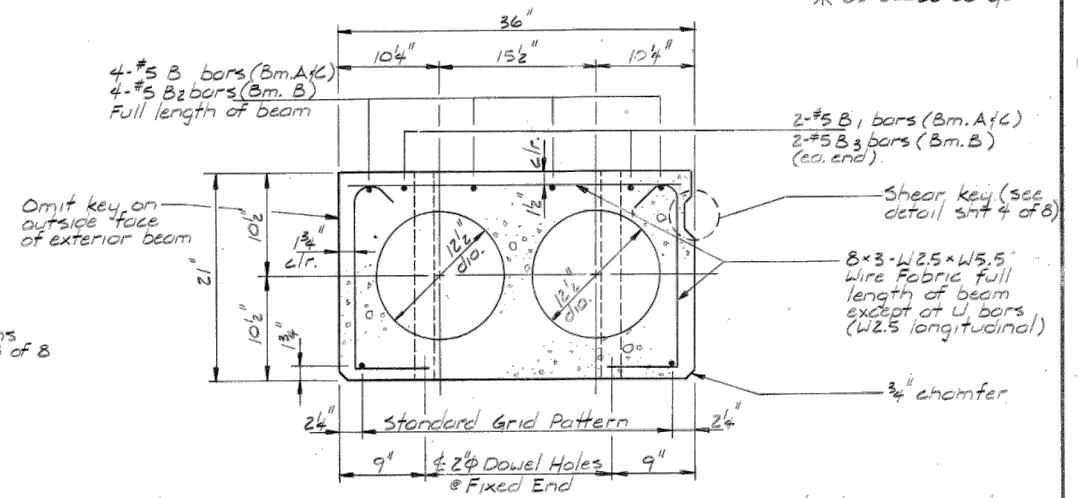
CURRENT AS OF: 10/21/2024	SHEET 36
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				
* 83-00026-00-65				

SHEET 3 OF 8

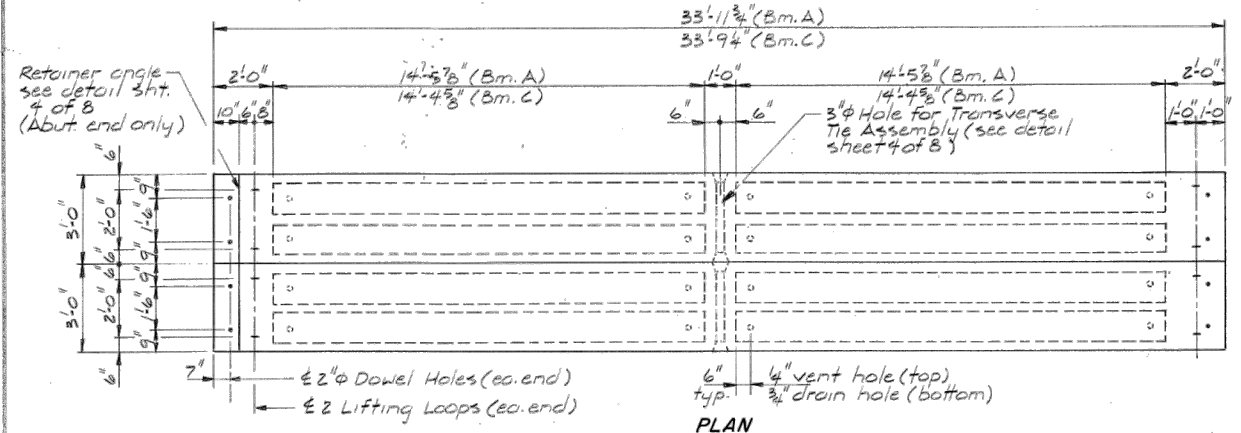


* See Special Provisions for optional overlays
CROSS SECTION

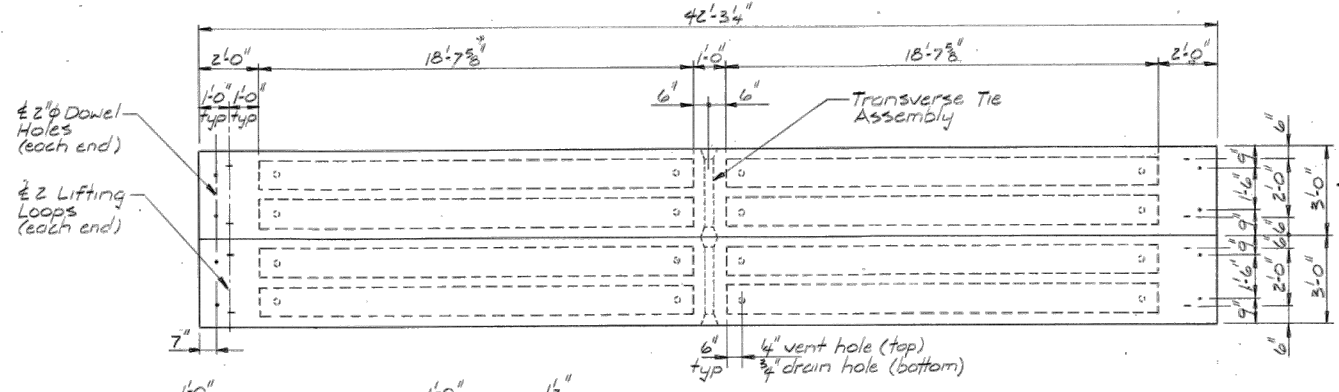


TYPICAL SECTION (BEAM A, B & C)

Each strand stressed to 28,900 lbs.
(Beam A/C) 7-1/2" strands @ 1 3/4" up
(Beam B) 7-1/2" strands @ 1 3/4" up
4-1/2" strands @ 3/4" up



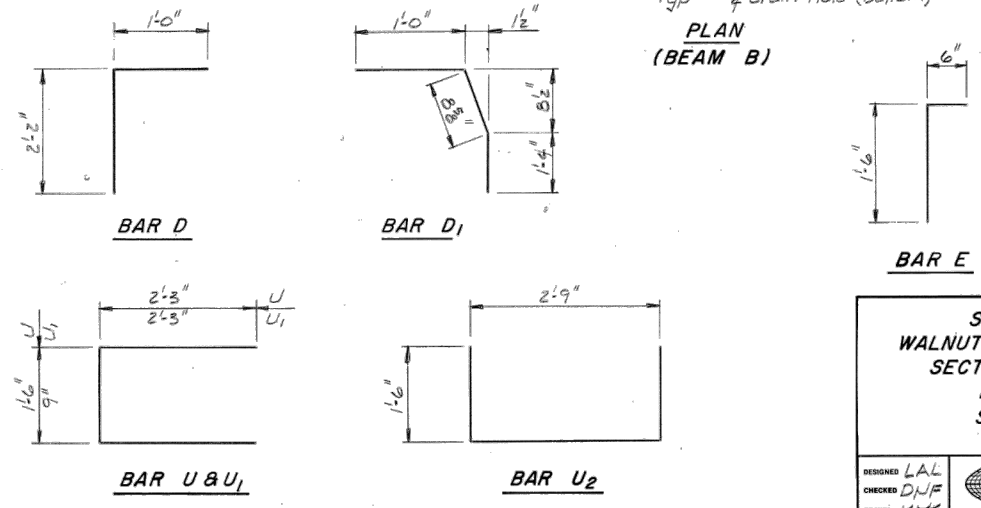
PLAN (BEAM A & C)



PLAN (BEAM B)

PRECAST NOTES

- The 1" rod in the transverse tie assembly shall be tightened to a snug fit and the tread's set pockets that receive transverse tie rods on outside shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to AASHTO - M31 or M53, Grade 60.
- The bearing seat surface shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
- Prestressing steel shall be non-galvanized, extra strength, stress relieved 7 wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Lifting loops shall consist of 2-1/2" 270 ksi, 7 wire stress-relieved strands. Cut or burn off flush with deck beam surface after beams are in place.
- After beams have been erected and prior to grouting shear keys, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place.
- Cost of reinforcement and accessories cast into the beams, of bearing pads, and of grouting longitudinal shear key is included in the unit price for "Precast Prestressed Concrete Deck Beams".
- Steel for the Retainer angle shall be structural steel AASHTO - M183 and shall be paid for at the contract unit price per pound for "Furnishing and Erecting Structural Steel".
- After fabrication the transverse tie assembly (tie rods, nuts, washers and sleeves) shall be hot dipped galvanized in accordance with AASHTO - M232.
- The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4". (Note: This is applicable for Class I overlay with Waterproofing Membrane System. See Special Provisions for surface treatment with optional overlays.)



SUPERSTRUCTURE
WALNUT ST. GRADE SEPARATION
SECTION 83-00026-00-65
LASALLE COUNTY
STATION 6+42.76

DESIGNED LAL
CHECKED DJF
DRAWN KMS
CHECKED DJF

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 84P1008
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DATE: 01/2024			

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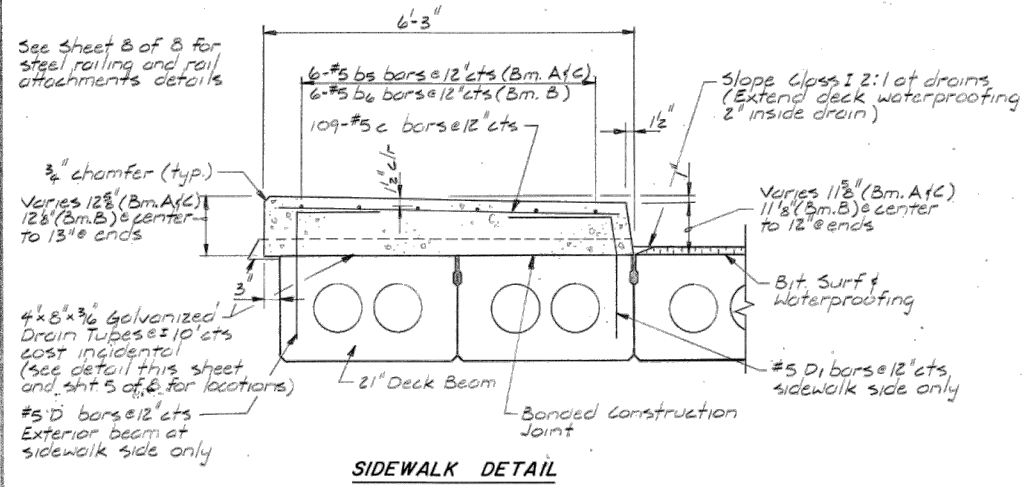
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ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-0821-00-BR
LASALLE COUNTY

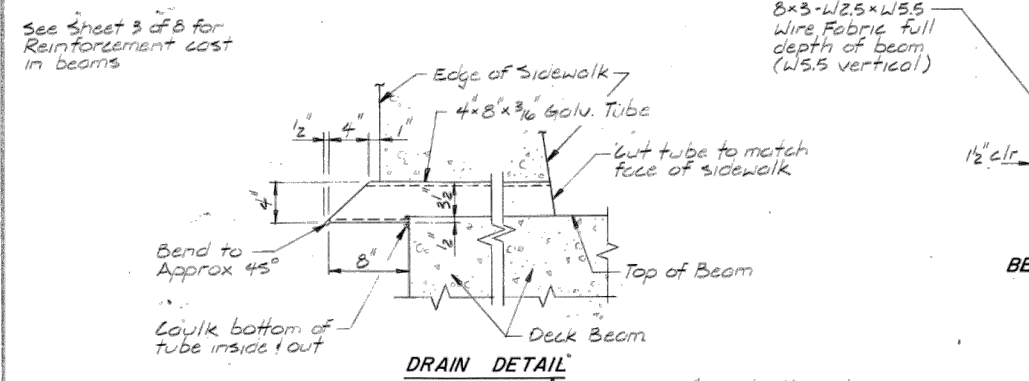
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STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 37
FILE NO.: 111489.00 Y-	OF 43

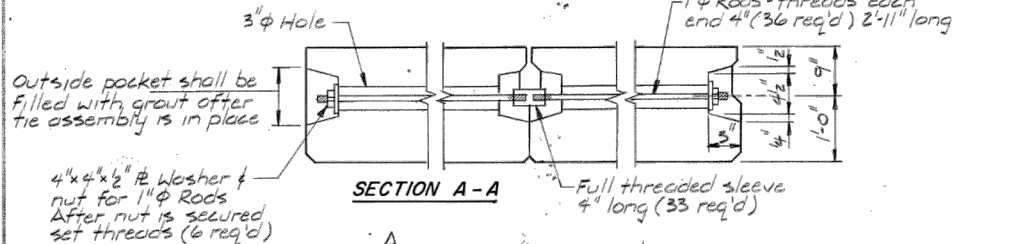
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*83-00026-00-6S				



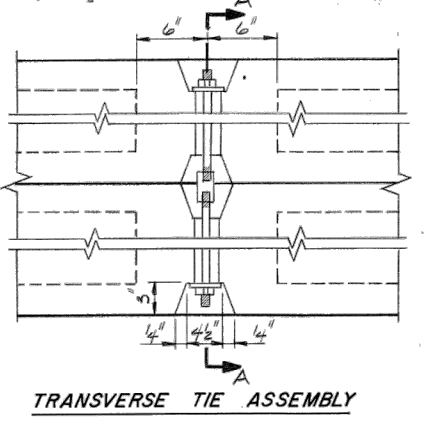
SIDEWALK DETAIL



DRAIN DETAIL



SECTION A-A

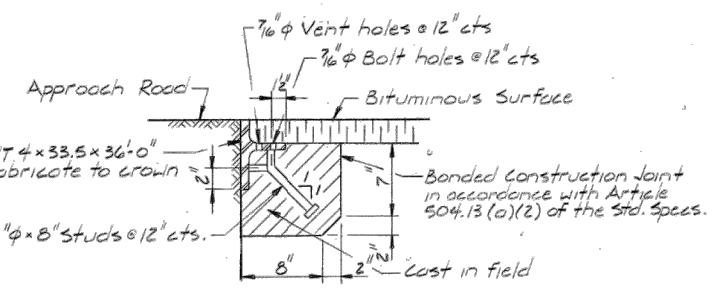


TRANSVERSE TIE ASSEMBLY

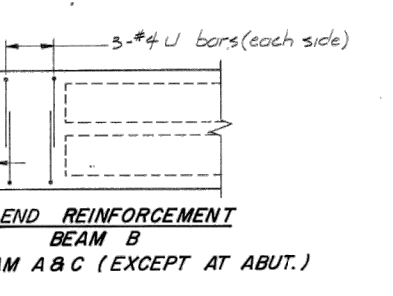
**BEAM A & C
BILL OF MATERIAL (1 BEAM)**

Bar	No.	Size	Length	Shape
B	4	#5	32'9"	—
B1	4	#5	7'-0"	—
B4	3	#4	1'-9"	—
D	33	#5	3'-2"	—
D1	33	#5	3'-1"	—
E	3	#5	2'-0"	—
U	6	#4	6'-0"	—
U1	4	#4	5'-3"	—
U2	4	#4	7'-0"	—

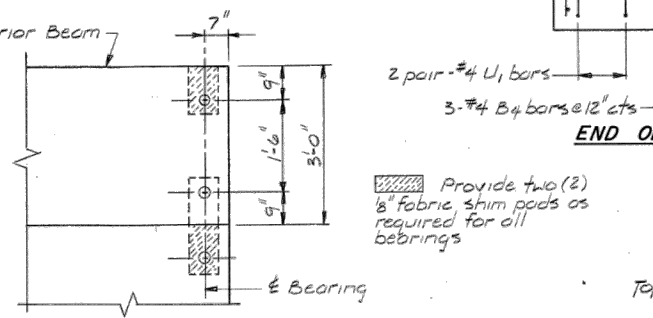
* Exterior beam at sidewalk only
 ** 1st interior beam at sidewalk only



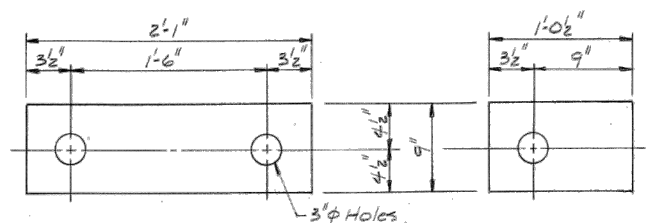
**RETAINER ANGLE
(BEAM A & C)**



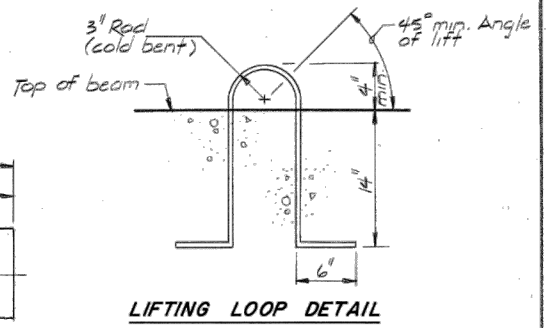
**END REINFORCEMENT
BEAM B
BEAM A & C (EXCEPT AT ABUT.)**



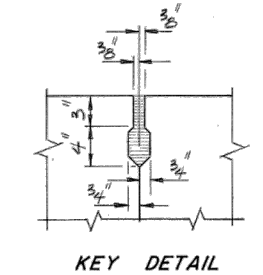
**END OF BEAM AT ABUTMENT
(BEAM A & C)**



**INTERIOR EXTERIOR
FABRIC BEARING PADS**



LIFTING LOOP DETAIL



KEY DETAIL

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
O	6	#5	35'8"	—
Bs	12	#5	33'6"	—
Bb	6	#5	42'-0"	—
C	109	#5	5'-9"	—
Reinforcement Bars	lbs		1293	
PPC Deck Beams 21"	Sq. Ft.		3,925	
F4E Structural Steel	lbs		2,412	
Waterpf Membrane Sys	Sq. Yds		364	
Class X Concrete	Cu. Yds		31	

**SUPERSTRUCTURE
WALNUT ST. GRADE SEPARATION
SECTION 83-00026-00-6S
LASALLE COUNTY
STATION 6+42.76**

DESIGNED LAL
 CHECKED DNF
 DRAWN KMS
 CHECKED DNF

**HANSON ENGINEERS
INCORPORATED**
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 ILLINOIS

**WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY**

**EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301**

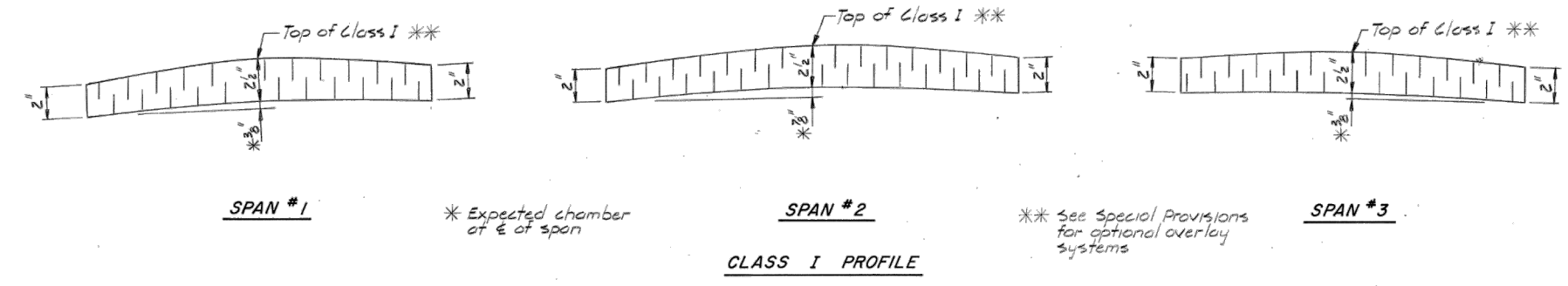
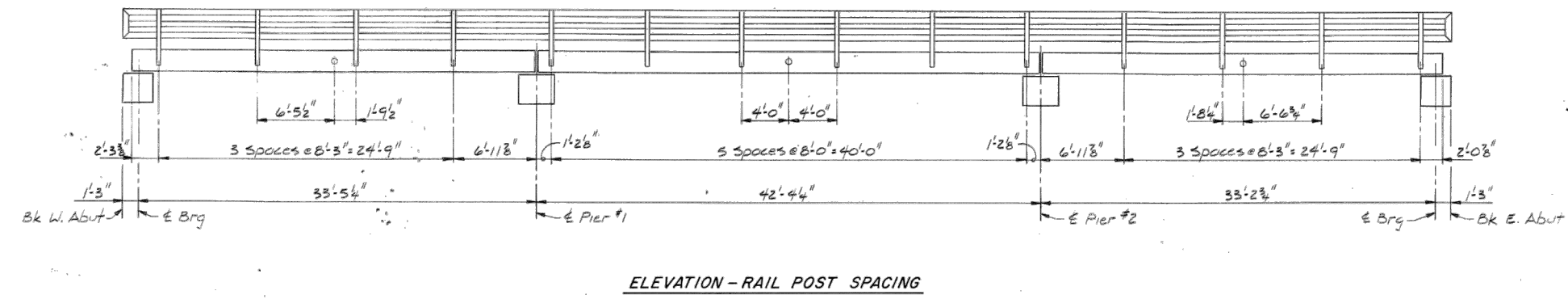
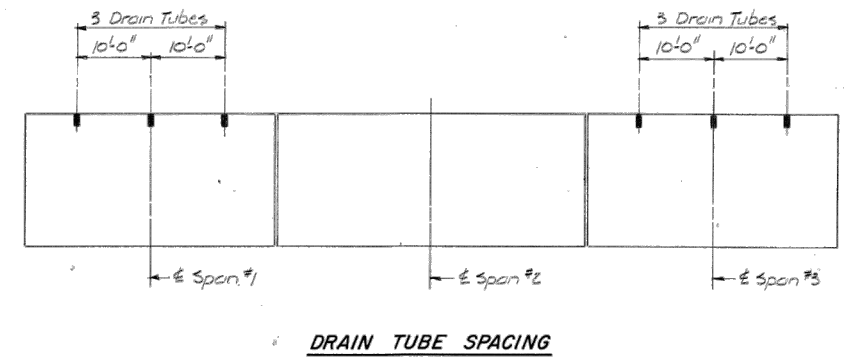
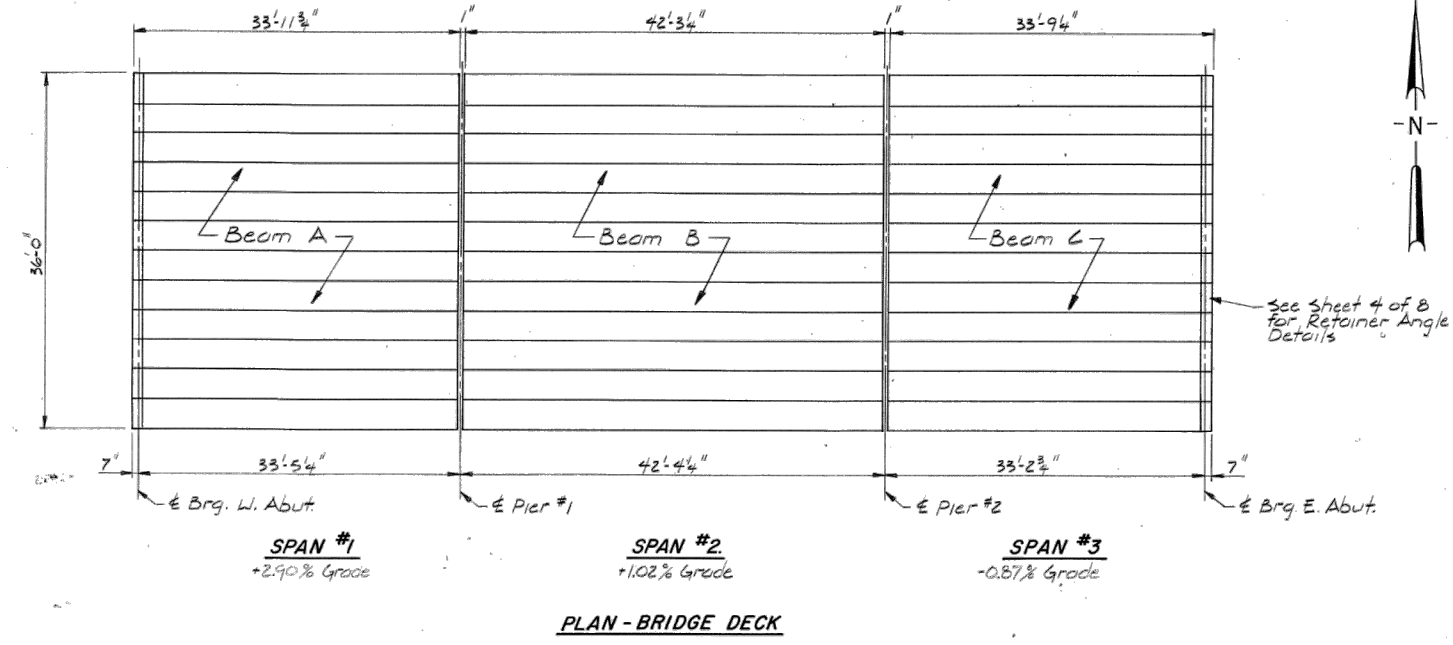
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ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6093	*	LaSalle	19	12
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

SHEET 5 OF 8

* 83-00026-00-65



SUPERSTRUCTURE
WALNUT ST. GRADE SEPARATION
SECTION 83-00026-00-65
LASALLE COUNTY
STATION 6+42.76

DESIGNED: LAL	 HANSON ENGINEERS INCORPORATED SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS	FILE NO.
CHECKED: DUF		84P1008
DRAWN: KMS		DATE
CHECKED: LAL		

SHEET 29 OF 32 "CONTRACT NO. 87852

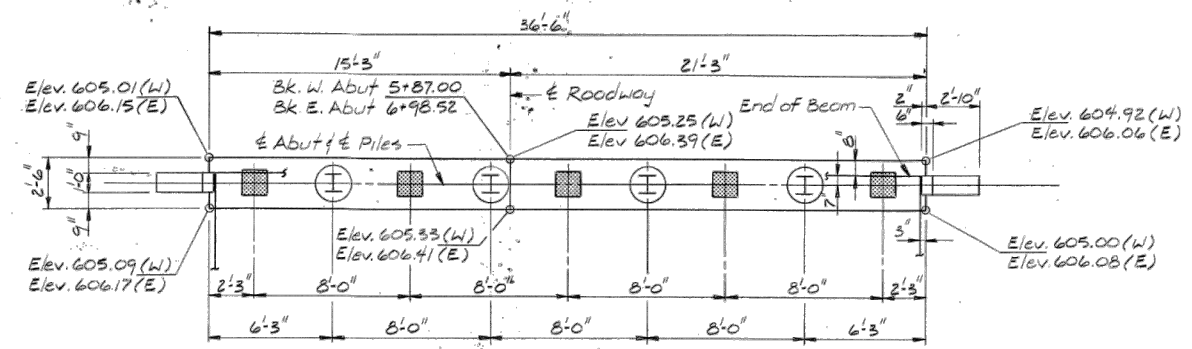
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WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

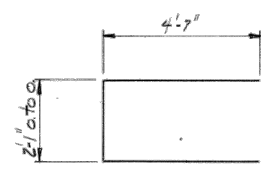
EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 39
FILE NO.: 111489.00 Y-	OF 43

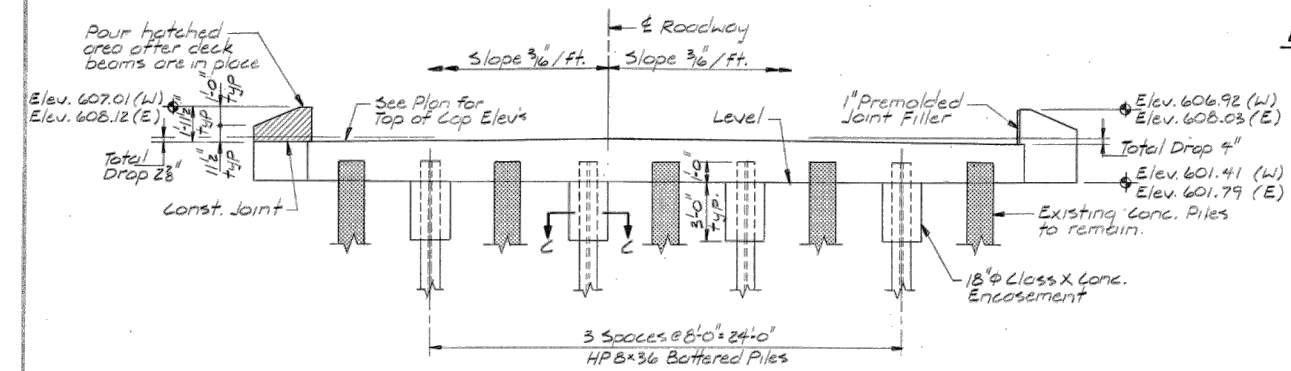


Note:
(W) Denotes West Abut.
(E) Denotes East Abut.
■ Indicates Existing Piles to Remain

PLAN

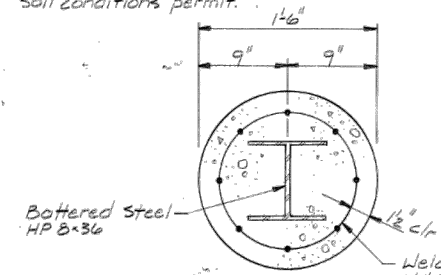


BAR u



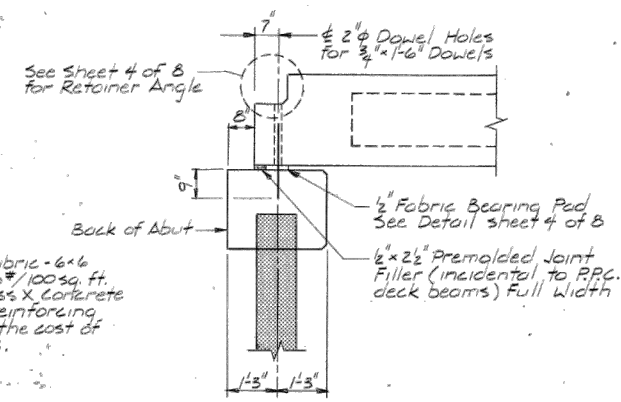
ELEVATION

Note:
Forms for encasement may be omitted when soil conditions permit.

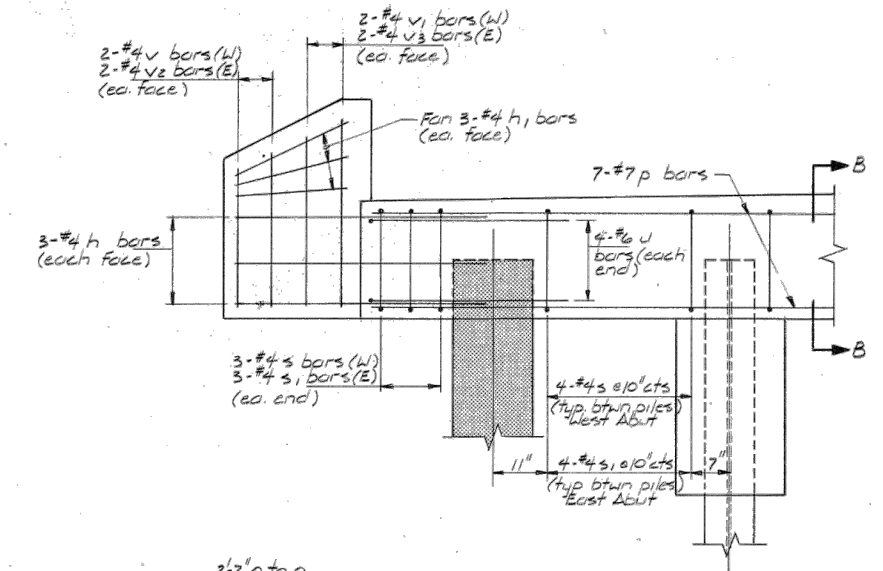


SECTION C-C

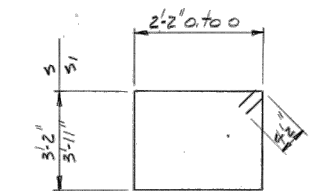
Welded Wire Fabric - 6x6 W4.0 x W4.0 @ 5.87' / 100 sq. ft. The cost of Class X concrete encasement & reinforcing is incidental to the cost of furnishing Piles.



BEARING DETAIL



REINFORCING DETAIL



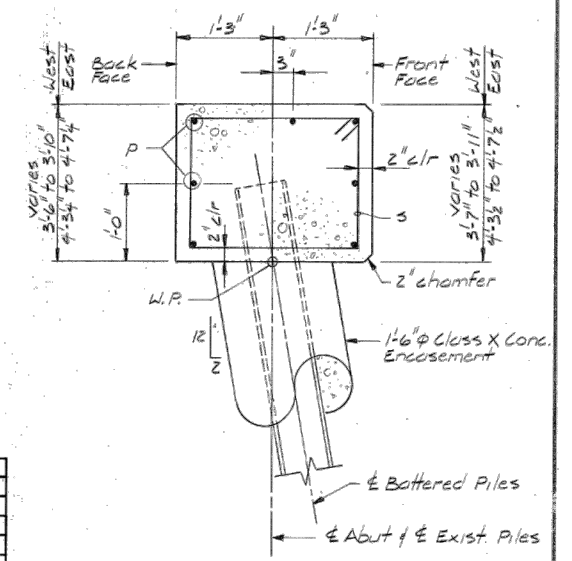
BAR s & s1

PILE DATA

Type Steel HPB-36
No. Req'd 8 (4 each abut.)
Capacity Refusal
Est. Length 27' Ft.
* Includes one (1) test pile at the West Abutment

BILL OF MATERIAL (2 ABUT)

Bar	No	Size	Length	Shape
h	24	#4	5'-4"	
h1	24	#4	2'-8"	
p	14	#7	36'-2"	
s	38	#4	11'-5"	□
s1	38	#4	12'-11"	□
u	16	#6	11'-3"	
v	8	#4	4'-2"	
v1	8	#4	4'-8"	
v2	8	#4	4'-10"	
v3	8	#4	5'-4"	
Furn Steel Piles HPB-36	Lin. Ft.	189'		
Drive Steel Piles	Lin. Ft.	189'		
Test Pile Steel HPB-36	Each	1		
Class X Concrete	Cu. Yds	30		
Reinforcement Bars	Lbs.	2,154		



SECTION B-B

ABUTMENT DETAIL
WALNUT ST. GRADE SEPARATION
SECTION 83-00026-00-65
LASALLE COUNTY
STATION 6+42.76

DESIGNED LAL		FILE NO.
CHECKED DNF		B4P100B
DRAWN KMS		DATE
CHECKED DNF		

SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

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 Drawing Name: G:\Users\11111489\OneDrive - Chamlin & Associates, Inc.\Desktop\2023\20-00821-00-BR\20-00821-00-BR-PLANS.dwg
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 by Jim Cloward

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

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 ILLINOIS
 Chamlin & Associates

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

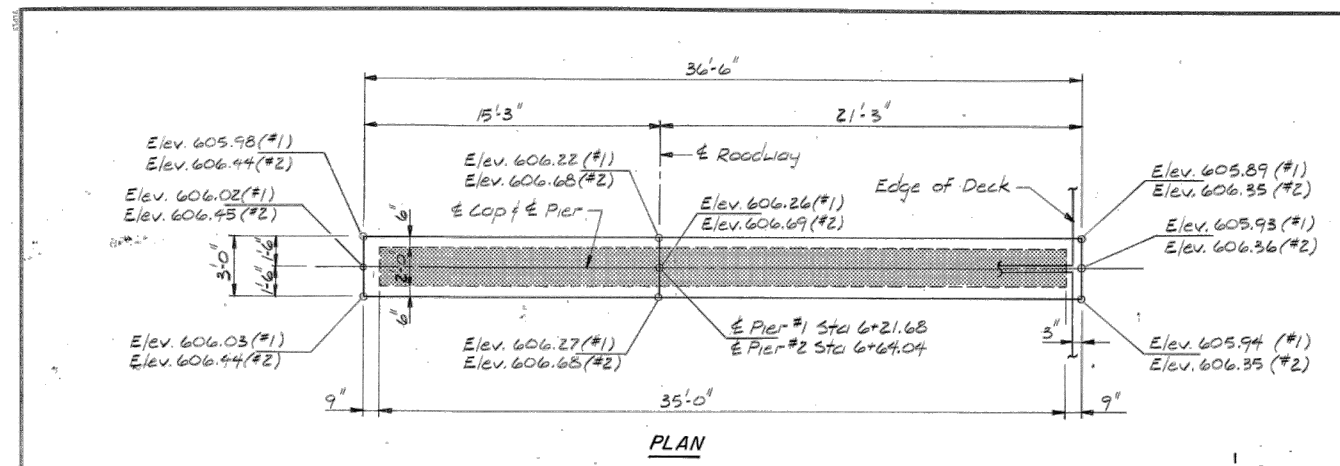
EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 40
FILE NO.: 111489.00 Y-	OF 43

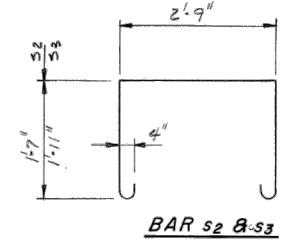
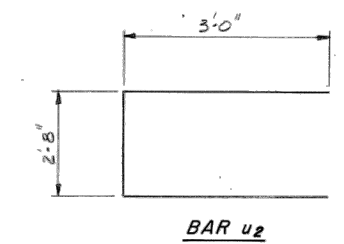
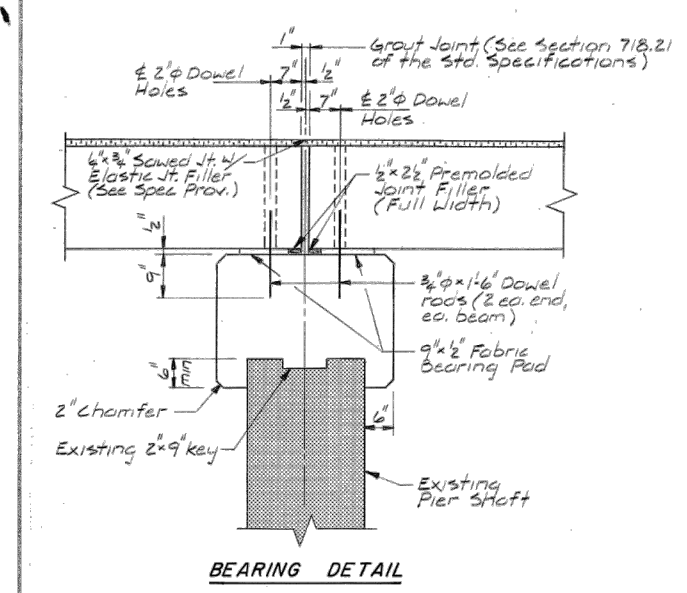
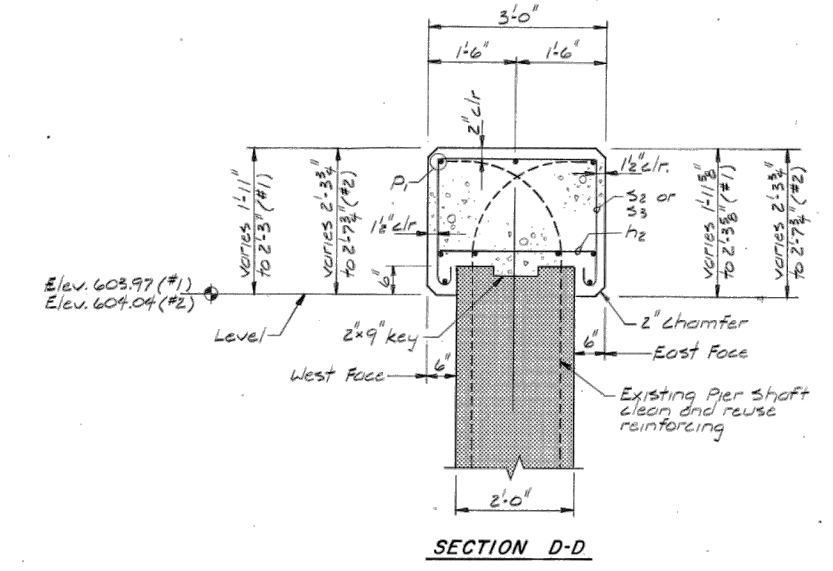
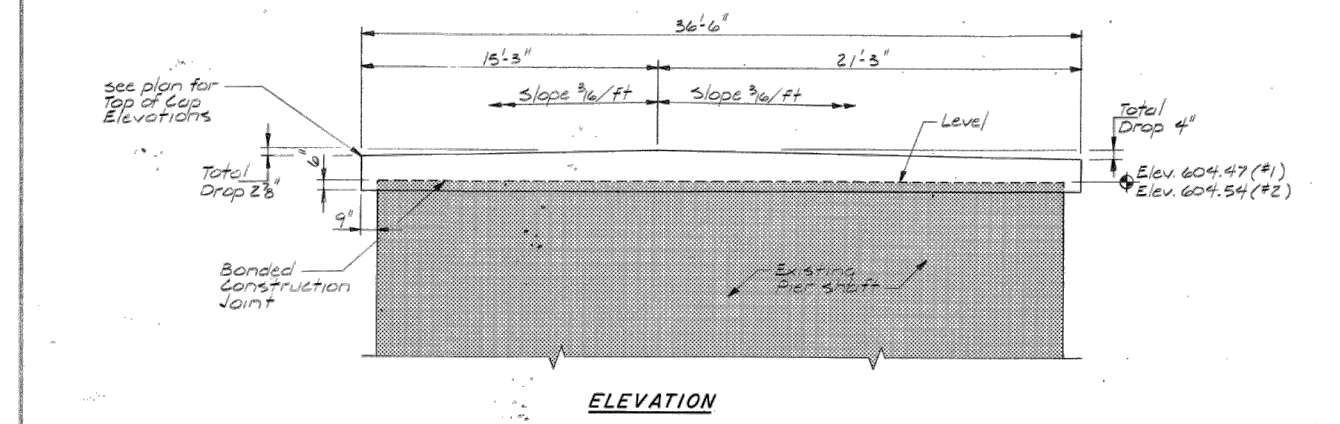
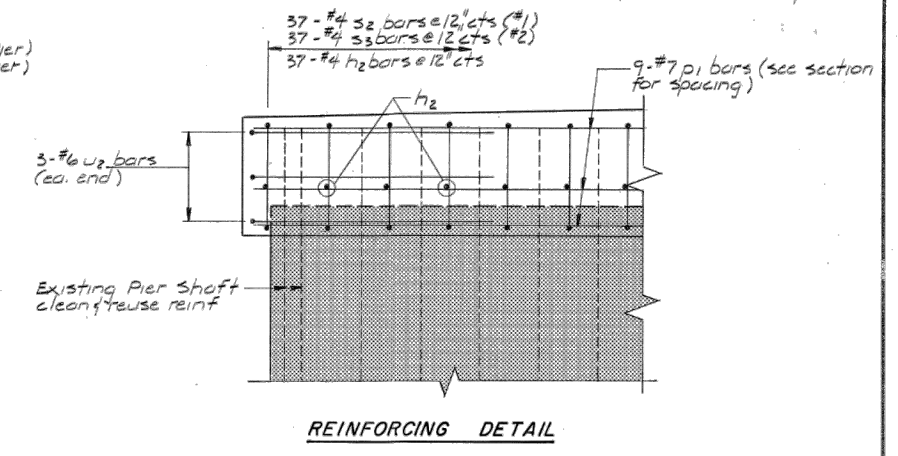
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
6093	*	LaSalle	19	14
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

* B3-00026-00-65

SHEET 7 OF 8



Note:
 (#1) Denotes Pier #1 (West Pier)
 (#2) Denotes Pier #2 (East Pier)
 [Hatched Area] Indicates Existing Pier Shaft to remain



BILL OF MATERIAL (2 PIERS)

Bar	No	Size	Length	Shape
h2	74	#4	2'-8"	U
D1	18	#7	36'-2"	—
s2	37	#4	6'-11"	U
s3	37	#4	7'-7"	U
U2	12	#6	8'-8"	U
Class X Concrete			60 yds	17
Reinforcement Bars			1bs	1976

PIER DETAILS
 WALNUT ST. GRADE SEPARATION
 SECTION 83-00026-00-65
 LASALLE COUNTY
 STATION 6+42.76

DESIGNED LAL
 CHECKED DJF
 DRAWN KMS
 CHECKED DJF

HANSON ENGINEERS
 INCORPORATED
 SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 84P1008
 DATE

CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\11111489-00-Walnut Street Bridge Superstructure Replacement\CAD\033-042-EXISTING-BRIDGE-PLANS.dwg Last Modified: Thursday, October 21, 2024 4:30:39 PM Plotted On: Monday, October 21, 2024 1:00:36 PM by Jim Olinard

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

CA
 Chamlin & Associates

PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

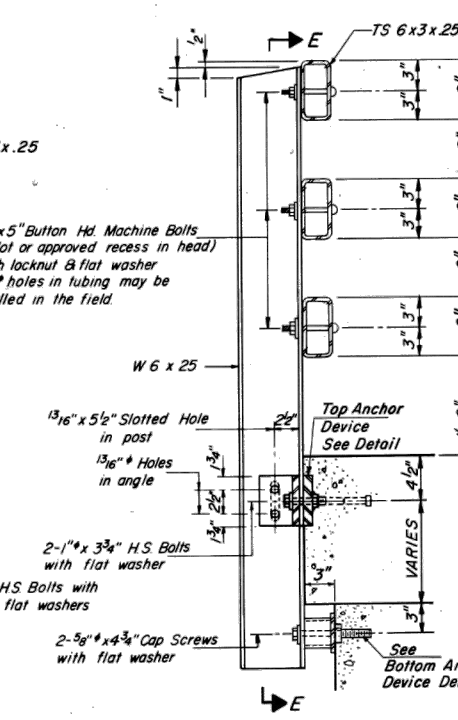
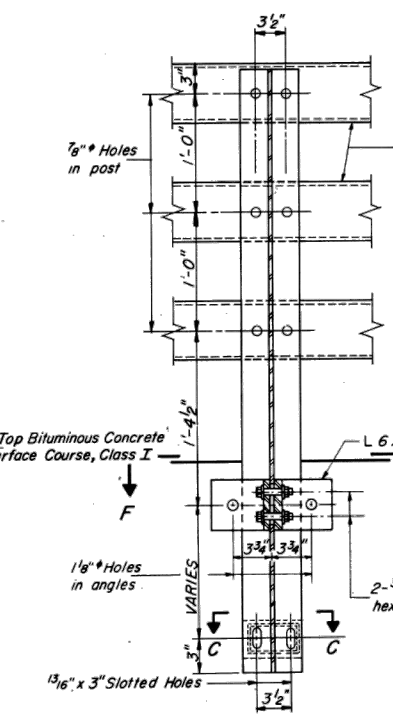
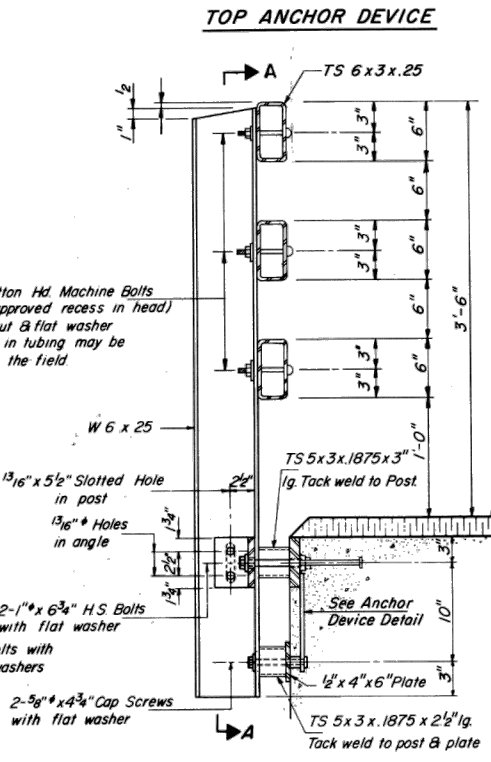
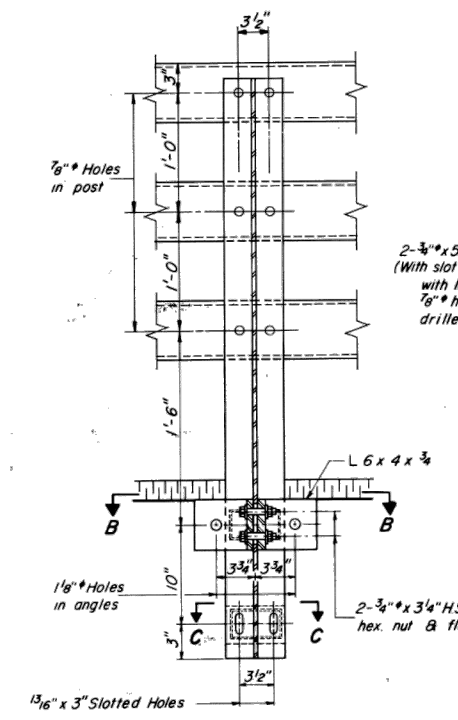
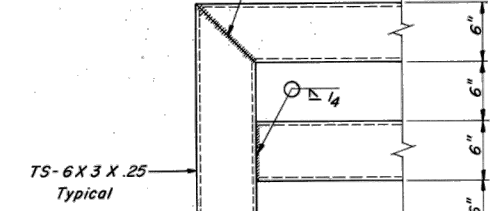
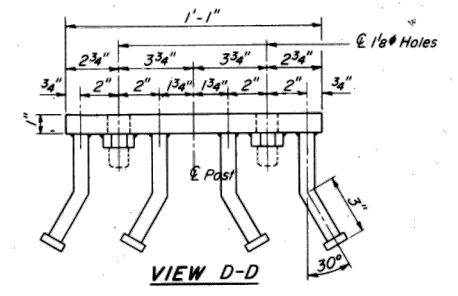
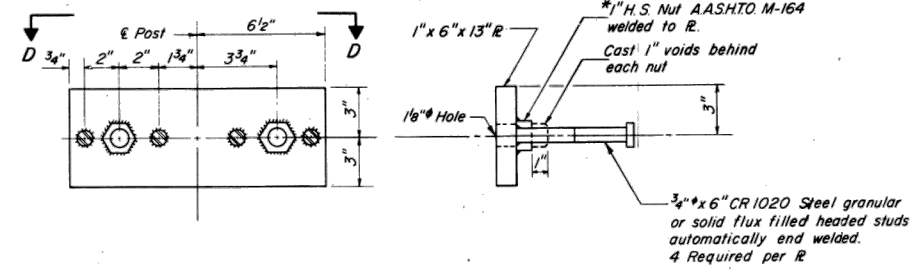
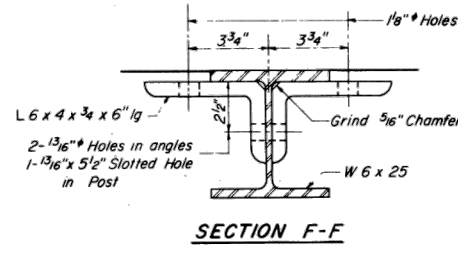
WALNUT STREET BRIDGE
 SECTION 20-0821-00-BR
 LASALLE COUNTY

EXISTING BRIDGE PLANS
 STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	SHEET 41
SCALE: AS NOTED	OF 43
FILE NO.: 111489.00 Y-	

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
6093	*	LASALLE	19	15
ILLINOIS PROJECT				
* 83-00026-00-43				

SHEET 8 OF 8



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and angles shall conform to AASHTO M-223, Grade 50 Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

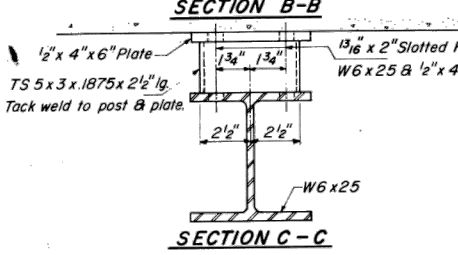
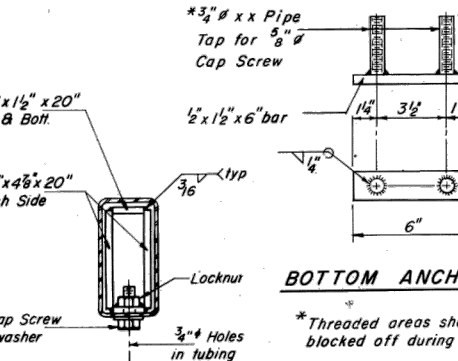
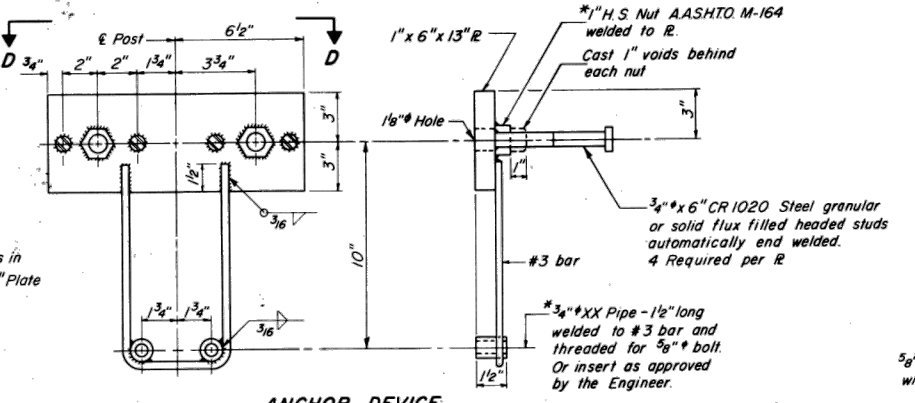
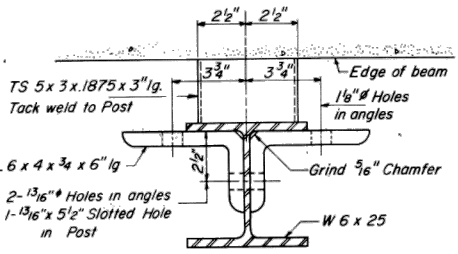
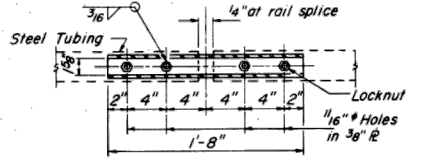
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 50704(g)(3) of the Standard Specifications. The 1 inch high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8 inch cap screws in bottom of posts shall be tightened to a snug fit only.

The lower portion of the post flange and the 1/2 x 4 x 6 inch plate in contact with concrete shall receive two coats of asphalt paint conforming to section 714.08 type B or place 1/8 inch fabric bearing pad between the post, plate and concrete.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STEEL RAILING	LIN. FT.	223

RAILING DETAIL
WALNUT ST GRADE SEPARATION
SECTION 83-00026-00-6S
LASALLE COUNTY
STATION 6+42.76

DESIGNED: JPL
 CHECKED: DJF
 DRAWN: RMS
 CHECKED: DJF

HANSON ENGINEERS
 INCORPORATED
 SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO: 84P1008
 DATE:

CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\111111489-00-Walnut Street Bridge Superstructure Replacement\CAD\032-042-EXISTING-BRIDGE-PLANS.dwg
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 by Jim Clinard

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

CA
 Chamlin & Associates

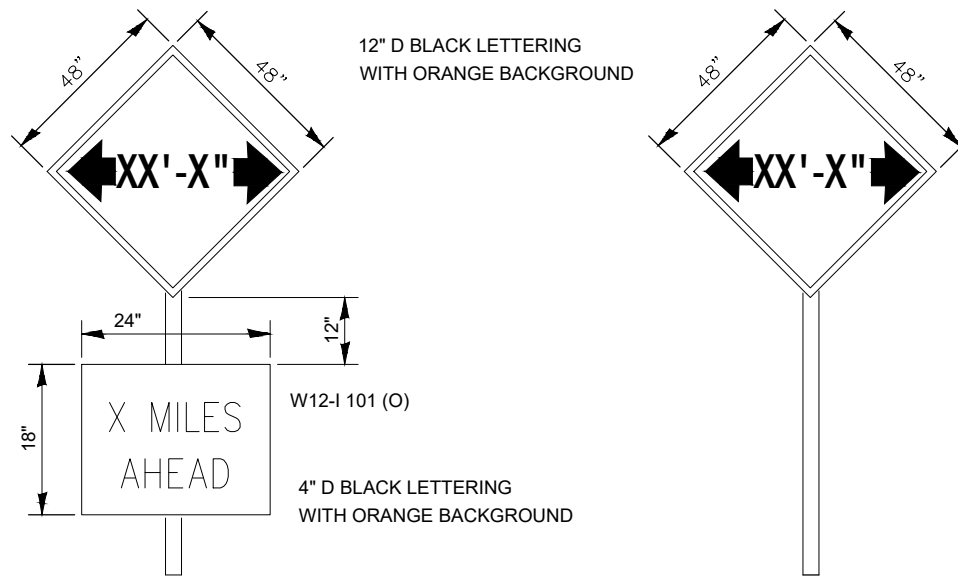
PERU MORRIS
 OTTAWA MORTON
 ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

EXISTING BRIDGE PLANS
STRUCTURE NO. 050-7301

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 42
FILE NO.: 111489.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2023
 Drawing Name: G:\Users\11111489\OneDrive - Chamlin & Associates, Inc.\Documents\2024\01\111489\00-Walnut Street Bridge Superstructure Replacement\CAD\04-SIGNING DETAILS.dwg
 Last Modified: Monday, October 21, 2024 12:48:43 PM
 Plotted On: Monday, October 21, 2024 12:50:00 PM
 by Jim Clined



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS

701-6

SHEET 32 OF 32 "CONTRACT NO. 87852

DRAWN BY: DS	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 01/2024				



PERU MORRIS
OTTAWA MORTON
ILLINOIS

WALNUT STREET BRIDGE
SECTION 20-00821-00-BR
LASALLE COUNTY

SIGNING DETAILS
STRUCTURE NO. 050-7301

CONSTRUCTION
PLANS

CURRENT AS OF: 10/21/2024	
SCALE: AS NOTED	SHEET 43
FILE NO.: 111489.00 Y-	OF 43