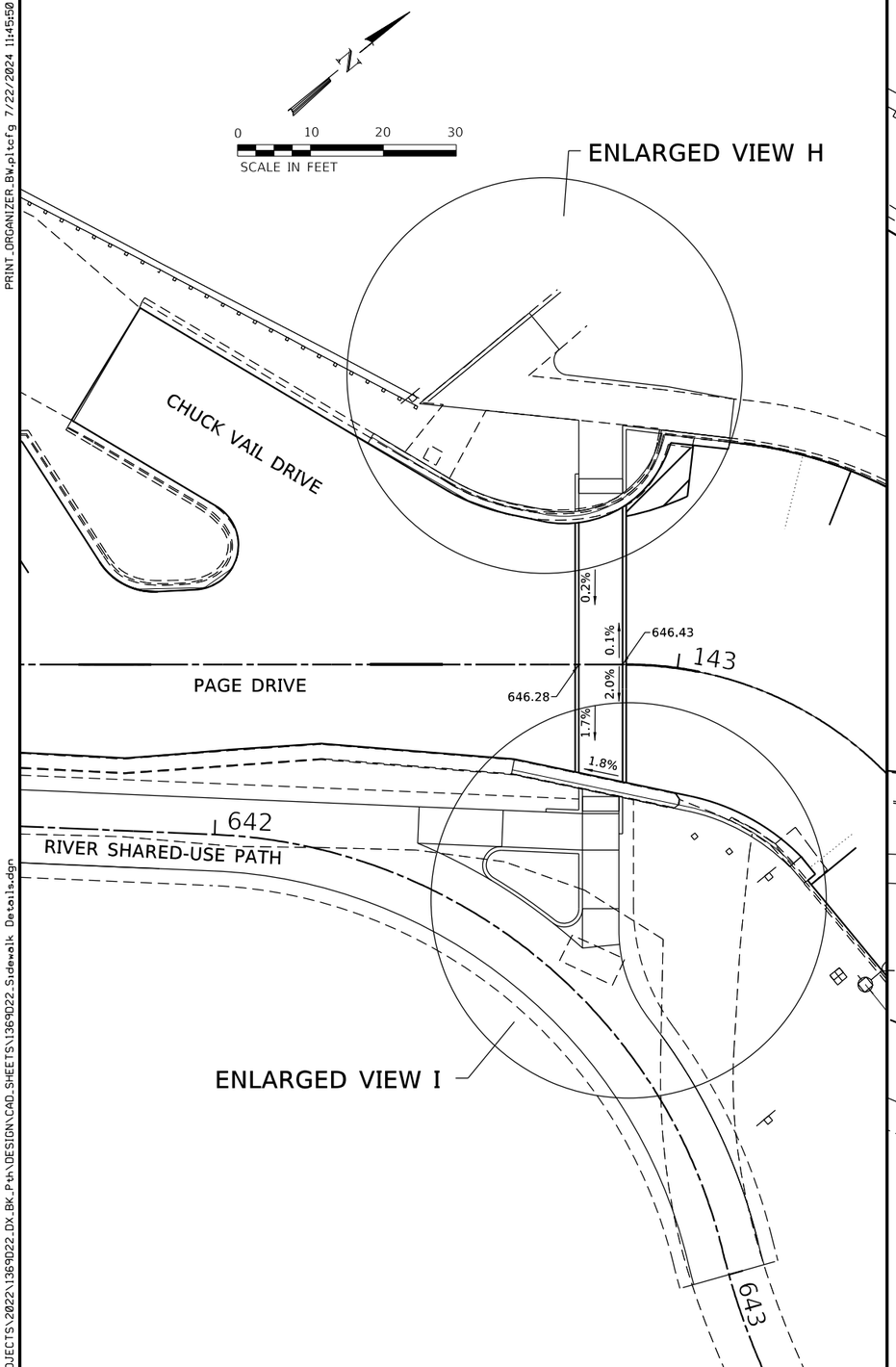
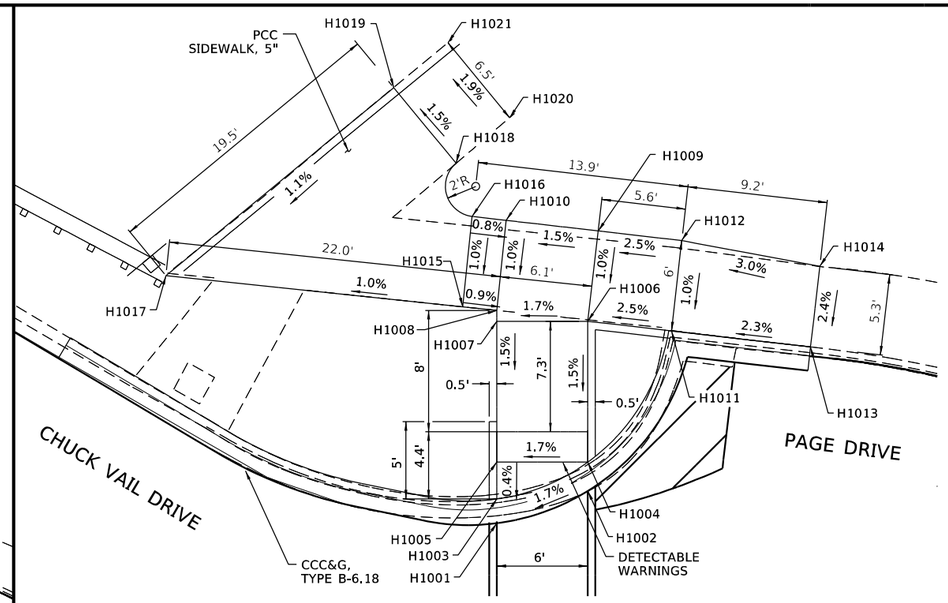
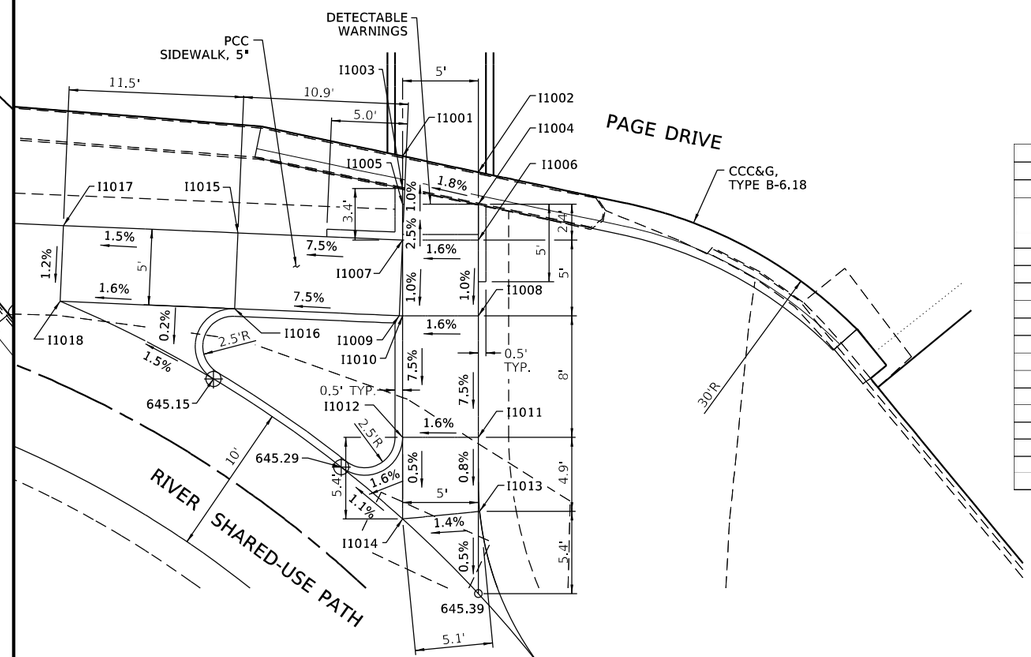




ENLARGED VIEW H

ENLARGED VIEW H			
POINT	NORTHING	EASTING	ELEVATION
H1001	1,887,078.5701	2,481,101.2983	646.31
H1002	1,887,084.5418	2,481,103.5047	646.42
H1003	1,887,079.5908	2,481,100.0735	646.30
H1004	1,887,085.7600	2,481,102.0430	646.41
H1005	1,887,081.1507	2,481,098.2017	646.31
H1006	1,887,091.7136	2,481,094.8990	646.55
H1007	1,887,087.1044	2,481,091.0577	646.45
H1008	1,887,087.5924	2,481,090.5383	646.46
H1009	1,887,096.0573	2,481,090.7598	646.61
H1010	1,887,091.9181	2,481,086.4162	646.52
H1011	1,887,095.5495	2,481,098.9237	646.69
H1012	1,887,099.8925	2,481,094.7845	646.75
H1013	1,887,101.9265	2,481,105.6147	646.90
H1014	1,887,105.7843	2,481,101.9385	647.03
H1015	1,887,085.9830	2,481,088.8831	646.48
H1016	1,887,090.2839	2,481,084.7013	646.54
H1017	1,887,072.2475	2,481,074.7566	646.29
H1018	1,887,091.7141	2,481,081.3216	646.59
H1019	1,887,091.7455	2,481,074.8513	646.49
H1020	1,887,096.7639	2,481,081.2240	646.68
H1021	1,887,096.7460	2,481,074.8750	646.56



ENLARGED VIEW I

ENLARGED VIEW I			
POINT	NORTHING	EASTING	ELEVATION
I1001	1,887,056.9420	2,481,128.0313	646.02
I1002	1,887,060.1094	2,481,132.0407	646.11
I1003	1,887,055.5812	2,481,129.6642	645.98
I1004	1,887,058.7486	2,481,133.6735	646.08
I1005	1,887,054.9075	2,481,130.4725	646.00
I1006	1,887,057.2418	2,481,135.4816	646.11
I1007	1,887,053.4008	2,481,132.2805	646.03
I1008	1,887,054.0378	2,481,139.3261	646.06
I1009	1,887,050.0389	2,481,135.9816	645.98
I1010	1,887,050.1968	2,481,136.1250	645.98
I1011	1,887,048.9004	2,481,145.4906	645.46
I1012	1,887,045.0594	2,481,142.2896	645.38
I1013	1,887,045.8433	2,481,149.3051	645.42
I1014	1,887,041.6137	2,481,146.4241	645.35
I1015	1,887,045.3457	2,481,124.9637	645.21
I1016	1,887,041.9838	2,481,128.6647	645.16
I1017	1,887,036.8101	2,481,117.2104	645.04
I1018	1,887,033.4482	2,481,120.9115	644.98

REVISION	DATE	BY	REMARKS

DESIGNED BAW
DRAWN DLB
REVIEWED LGN
APPROVED GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: # 184-000918

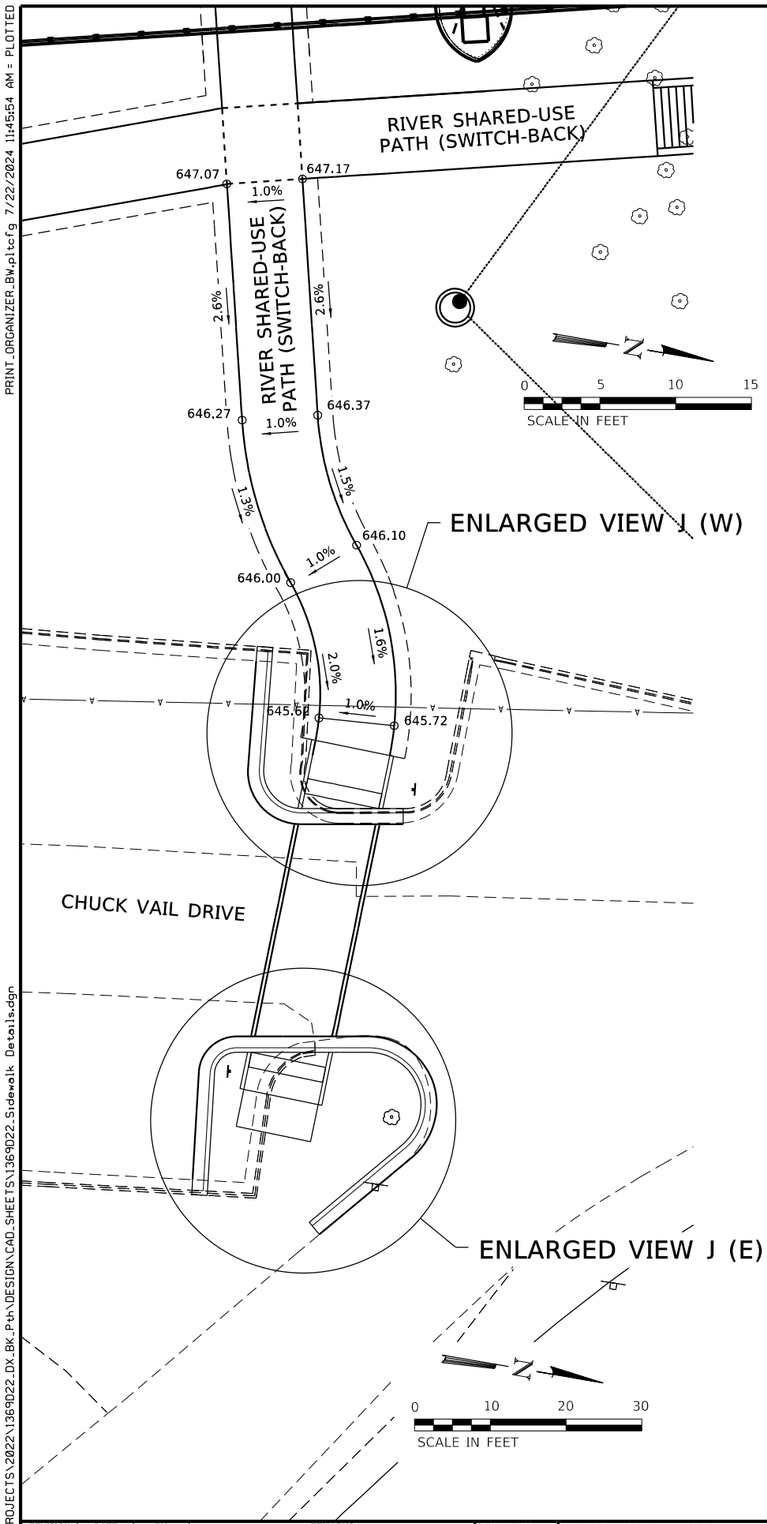
CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

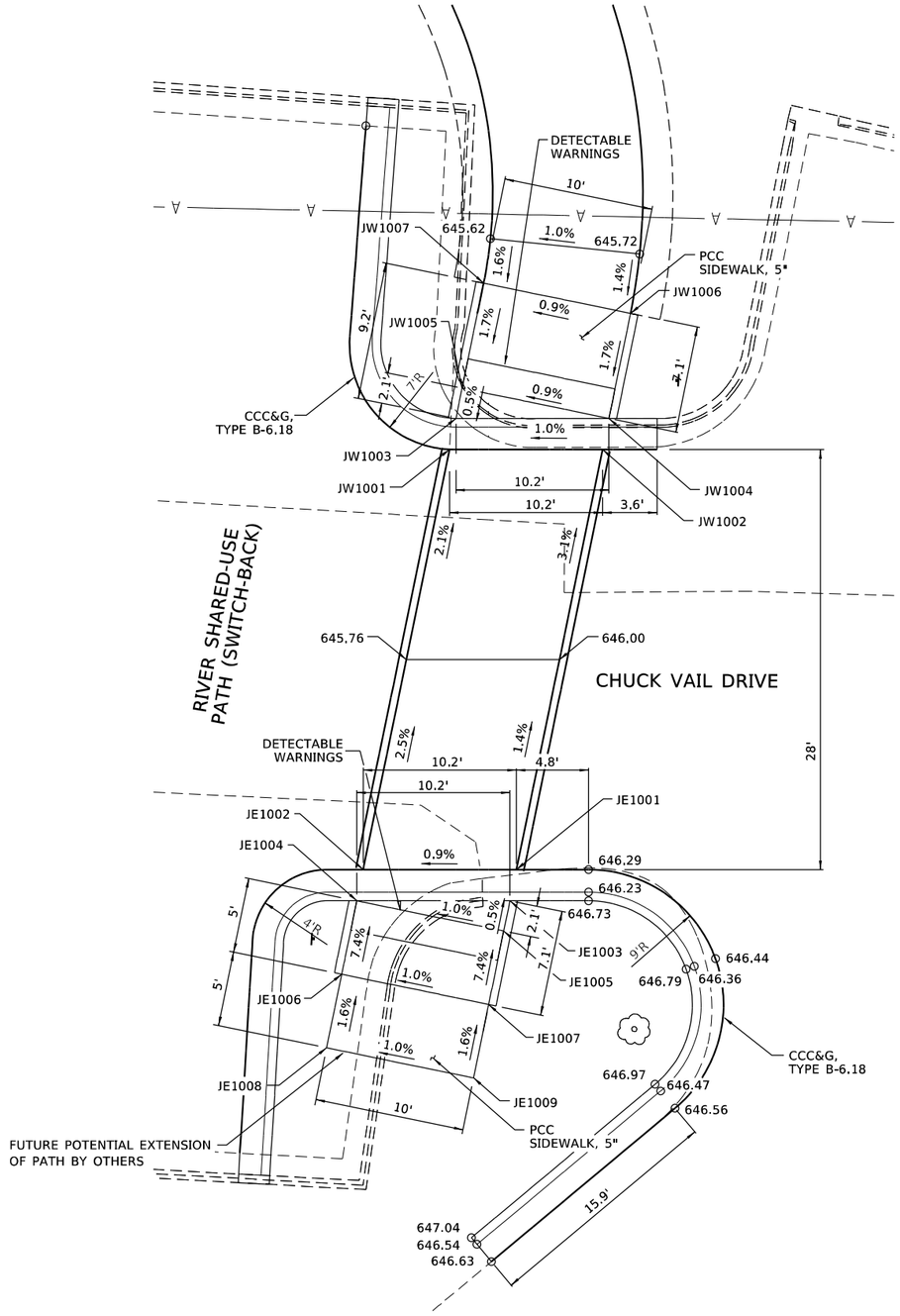
DIXON Here to Serve

SIDEWALK ELEVATION DETAILS

SHEET 4 OF 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	101
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			





ENLARGED VIEW J (W)

ENLARGED VIEW J			
POINT	NORTHING	EASTING	E_EVATION
JW1001	1,887,131.9614	2,480,699.7248	645.46
JW1002	1,887,142.0506	2,480,698.1676	645.56
JW1003	1,887,132.0662	2,480,697.6040	645.43
JW1004	1,887,142.1554	2,480,696.0468	645.53
JW1005	1,887,132.1676	2,480,695.5532	645.44
JW1006	1,887,142.5081	2,480,688.9095	645.65
JW1007	1,887,132.5203	2,480,688.4159	645.56
JE1001	1,887,140.6395	2,480,726.7169	646.20
JE1002	1,887,130.5504	2,480,728.2741	646.11
JE1003	1,887,140.5347	2,480,728.8377	646.17
JE1004	1,887,130.4456	2,480,730.3949	646.08
JE1005	1,887,140.4334	2,480,730.8885	646.18
JE1006	1,887,130.1987	2,480,735.3888	646.45
JE1007	1,887,140.1865	2,480,735.8824	646.55
JE1008	1,887,129.9519	2,480,740.3827	646.53
JE1009	1,887,139.9397	2,480,740.8763	646.63

ENLARGED VIEW J (E)

REVISION	DATE	BY	REMARKS

DESIGNED BAW
DRAWN DLB
REVIEWED LGN
APPROVED GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: # 184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

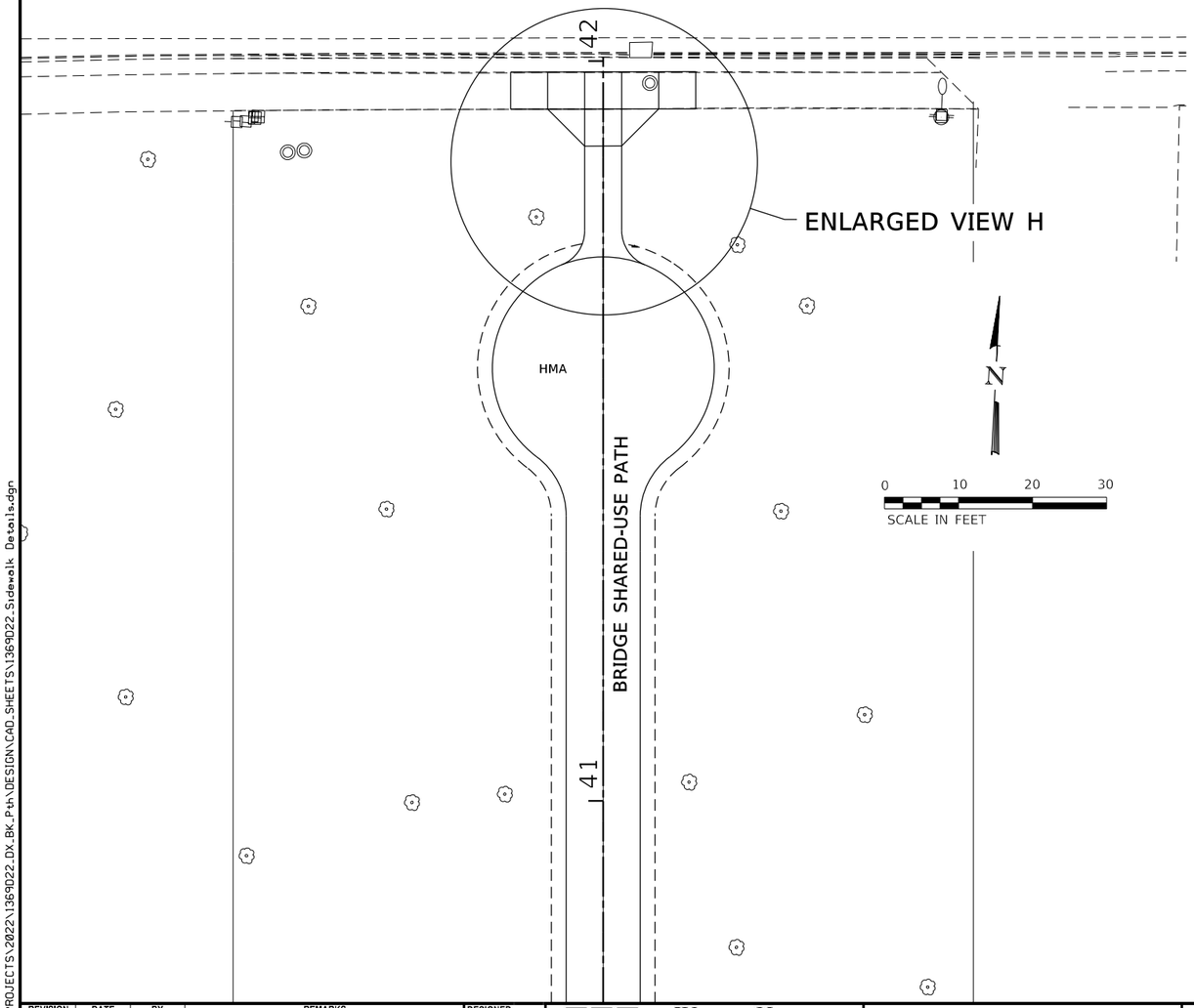
SIDEWALK ELEVATION DETAILS

SHEET 5 OF 6

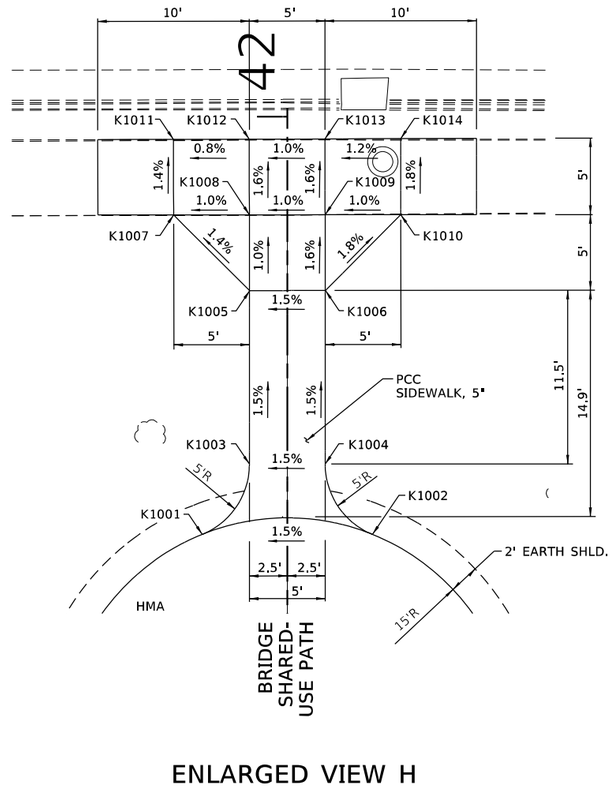
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	102
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

393+00

PALMYRA ST. / IL RT 2



PALMYRA ST. / IL RT 2



ENLARGED VIEW H

ENLARGED VIEW <			
POINT	NORTHING	EASTING	ELEVATION
K1001	1,887,731.6339	2,479,520.4140	671.95
K1002	1,887,732.1483	2,479,531.6523	672.13
K1003	1,887,736.4071	2,479,523.3238	671.94
K1004	1,887,736.6357	2,479,528.3185	672.02
K1005	1,887,747.8376	2,479,522.8006	671.77
K1006	1,887,748.0915	2,479,527.7942	671.85
K1007	1,887,752.6128	2,479,517.5767	671.67
K1008	1,887,752.8413	2,479,522.5715	671.72
K1009	1,887,753.0863	2,479,527.5660	671.77
K1010	1,887,753.3140	2,479,532.5603	671.72
K1011	1,887,757.5902	2,479,517.3325	671.60
K1012	1,887,757.8353	2,479,522.3265	671.64
K1013	1,887,758.0803	2,479,527.3205	671.69
K1014	1,887,758.3253	2,479,532.3145	671.63

REVISION	DATE	BY	REMARKS

DESIGNED BAW
DRAWN DLB
REVIEWED LGN
APPROVED GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: # 184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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SIDEWALK ELEVATION DETAILS

SHEET 6 OF 6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	103
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

Benchmark: BM #402 "□" on west headwall of box culvert by old railroad bridge (Sta. 22+46, 30' Rt, Elev. 642.03). BM #413 "□" southwest corner of ComEd tower foundation west of railroad arch (Sta. 14+21, 128' Lt, Elev. 652.32).

Existing Structure:
The original single-track railroad bridge was 1,000'-0" long from ℄-to-℄ of bearing and was built in the 1920s by the Illinois Central Railroad. The substructure consists of cast-in-place concrete abutments and fifteen piers and is all that remains of the existing structure. When the bridge was in service, it also included non-ballasted steel deck girders and steel trestles on the concrete piers. The girders and trestles were removed in the 1980s.

Vehicular and river traffic under the bridge to be maintained during construction.

Salvage: None

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)											
	S. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9	N. Abut.	Item 113
Q100 (base)	665.60	627.51	623.01	622.51	624.01	627.28	632.45	639.16	639.16	642.38	673.70	5
Q200	665.60	621.50	613.92	613.42	614.92	620.91	626.34	633.37	633.35	636.57	673.70	
Design	665.60	627.51	623.01	622.51	624.01	627.28	632.45	639.16	639.16	642.38	673.70	
Check	665.60	621.50	613.92	613.42	614.92	620.91	626.34	633.37	633.35	636.57	673.70	

WATERWAY INFORMATION

Drainage Area = 8,620 sq.mi. — Low Grade Elev. 669.72 at Sta. 22+79 to 26+75

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
10-Year	10	42,600	7,350	7,644	645.59	N/A	0	N/A	645.59
Design	50	56,800	9,287	9,634	647.98	N/A	0	N/A	647.98
Base	100	62,400	9,980	10,345	648.82	N/A	0	N/A	648.82
Scour Check	200	67,584	10,696	11,079	649.68	N/A	0	N/A	649.68
Max. Calc.	500	74,500	11,400	11,804	650.53	N/A	0	N/A	650.53

10-Yr Velocity through Existing Bridge = 5.8 fps
10-Yr Velocity through Proposed Bridge = 5.6 fps

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition with 2015 Interims

LOADING H10

Pedestrian Live Load = 90 psf uniform load

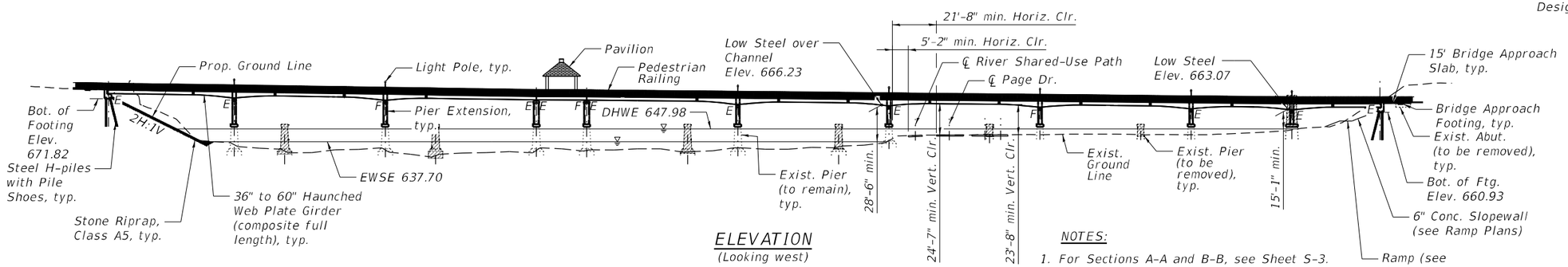
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
All structural steel shall be painted

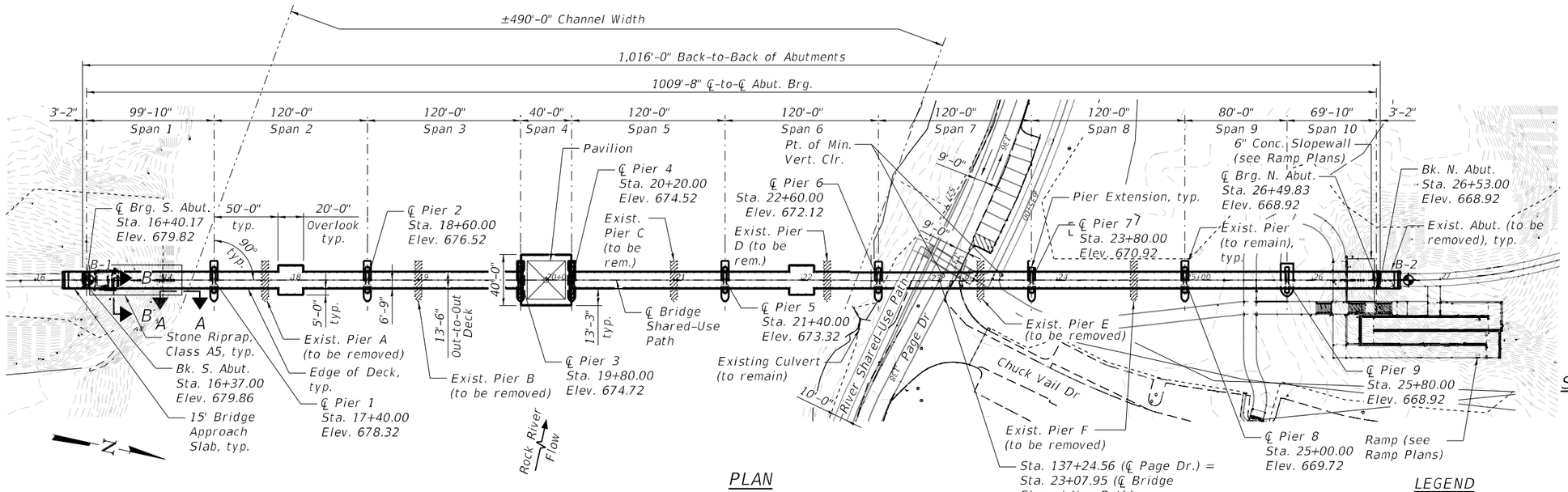
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.086
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.143
Soil Site Class = D



ELEVATION
(Looking west)

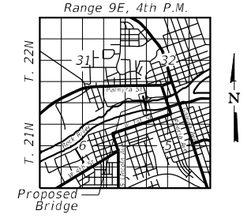
NOTES:
1. For Sections A-A and B-B, see Sheet S-3.
2. Refer to Ramp Plans for North Abutment Slopewall details.



PLAN

LEGEND

Soil Boring



LOCATION SKETCH

MATTHEW F. HELLENTHAL
081-007652
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

EXPIRATION DATE 11-30-2024
DATE: 07-22-2024

GENERAL PLAN AND ELEVATION
SHARED-USE PATH EXTENSION OVER ROCK RIVER AND PAGE DRIVE
PUBLIC WATER
SEC. 22-00183-00-BR
LEE COUNTY
STATION 23+07.95
STRUCTURE NO. 052-0082

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

benesch
Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

SHEET NO. S-1 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	104
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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GENERAL NOTES

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts shall be ⅞" Ø, in 1 5/16" Ø holes, unless otherwise noted.

2. Calculated weight of Structural Steel = 337,118 lbs.

3. All structural steel shall be AASHTO M270 Grade 50.

4. No field welding is permitted except as specified in the contract documents.

5. Reinforcement bars designated (E) shall be epoxy coated.

6. If the Contractor elects to use cantilever forming brackets on theexterior girders or outlook supports, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and the first interior girder at each of these additional bracket locations.

7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

8. Concrete stain and anti-graffiti coating shall be applied to all exposed surfaces of the abutments and piers, including existing concrete. The bottom limit shall be taken 1'-0" below grade on land and the EWSE in the water.

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

10. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans (Permit No. DS2024051).

11. Plan dimensions and details relative to the existing structure have been taken from survey and inspection notes and are subject to nominal 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 work.

12. The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all steel surfaces shall be gray, Munsell No 5B 7/1 unless noted otherwise.

13. No in stream work shall be conducted from April 1st through July 31st of any given year.

14. The Contractor shall determine the means and methods of temporary river access and temporary works for pier removal and bridge construction. All work associated with temporary river access and temporary works for pier removal and bridge construction is not paid separately and is incidental to the items requiring work in or above the river.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		238	238
Filter Fabric	Sq. Yd.		238	238
Concrete Removal	Cu. Yd.		1,400.1	1,400.1
Structure Excavation	Cu. Yd.		203	203
Concrete Structures	Cu. Yd.		541.4	541.4
Concrete Superstructure	Cu. Yd.	378.1		378.1
Form Liner Textured Surface	Sq. Ft.		4,136	4,136
Protective Coat	Sq. Yd.	1,729		1,729
Concrete Superstructure (Approach Slab)	Cu. Yd.	10.0		10.0
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	5,688		5,688
Reinforcement Bars, Epoxy Coated	Pound	101,880	75,220	177,100
Pedestrian Railing	Foot	2,191		2,191
Furnishing Steel Piles HP12X53	Foot		390	390
Driving Piles	Foot		390	390
Test Pile Steel HP12x53	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	54		54
Elastomeric Bearing Assembly, Type I	Each	16		16
Elastomeric Bearing Assembly, Type II	Each	4		4
Elastomeric Bearing Assembly, Type III	Each	2		2
Anchor Bolts, 3/4"	Each	32		32
Anchor Bolts, 1"	Each	20		20
Anchor Bolts, 1 1/2"	Each	8		8
Granular Backfill for Structures	Cu. Yd.		30	30
Epoxy Crack Injection*	Foot		270	270
Geocomposite Wall Drain	Sq. Yd.		16	16
Concrete Headwalls for Pipe Drains	Each		2	2
Pipe Underdrains for Structures 4"	Foot		71	71
Anti-Graffiti Coating	Sq. Ft.		19,924	19,924
Potholing	Each		1	1
Staining Concrete Structures	Sq. Ft.		19,924	19,924
Bar Terminators	Each	60		60
Underwater Concrete Repair*	Sq. Ft.		120	120
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)*	Sq. Ft.		720	720
Structural Repair of Concrete (Depth Greater Than 5 Inches)*	Sq. Ft.		180	180
Pavilion Structure	L. Sum	1		1

*Pay item quantity includes an allowance. Final repair areas shall be determined in the field and coordinated with the Engineer during construction. See Sheet S-7 for additional information.

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7/22/2024

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	MFH
DRAWN	RMG
CHECKED	MFH

benesch
Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

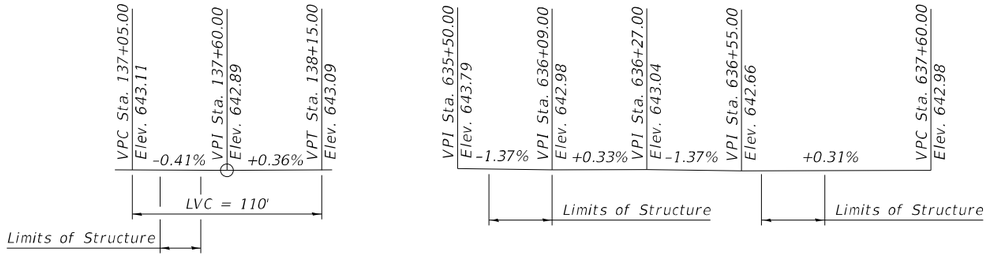
CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

GENERAL NOTES, BILL OF MATERIALS AND INDEX OF SHEETS
STRUCTURE NO. 052-0082

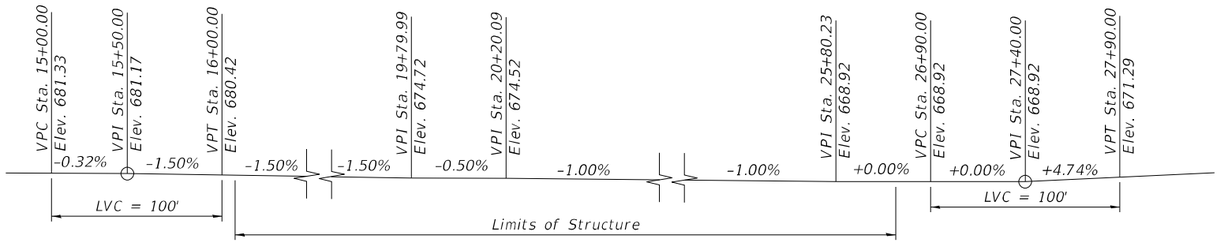
SHEET NO. S-2 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	105
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			



PROFILE GRADE
(Along ℄ Page Drive)

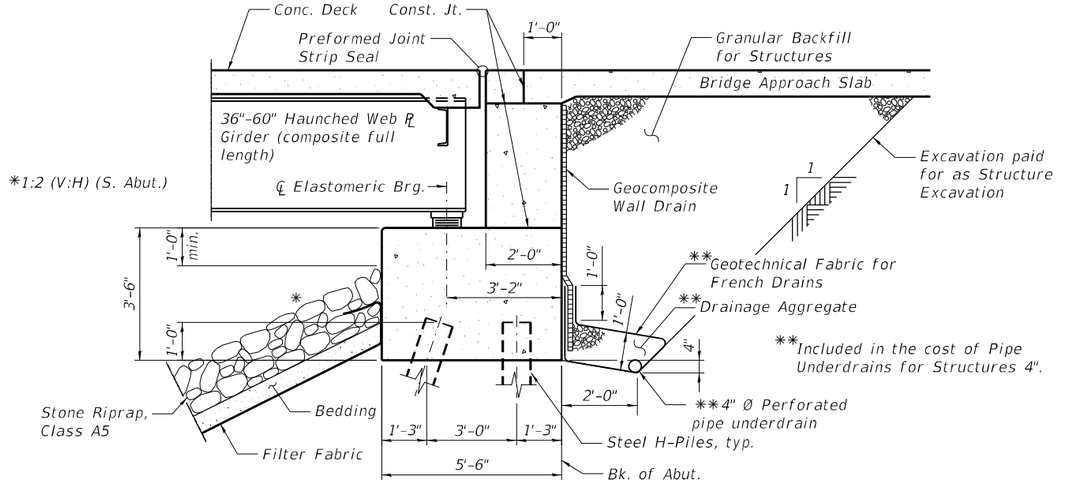
PROFILE GRADE
(Along ℄ River Shared-Use Path)



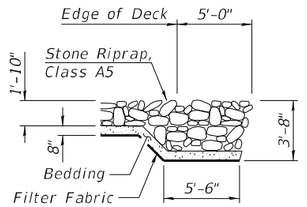
PROFILE GRADE
(Along ℄ Bridge Shared-Use Path)

ROCK RIVER
BUILT 202_ BY
CITY OF DIXON
LEE COUNTY
STA 23+07.95
STR. NO. 052-0082 - H10 LOADING

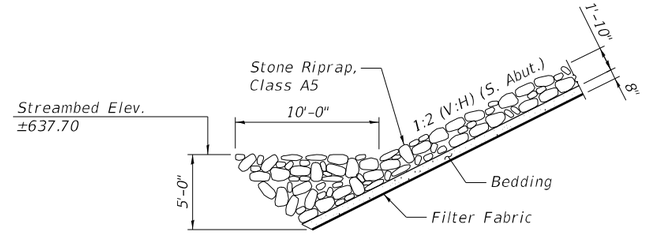
NAME PLATE
(See Std. 515001)



SECTION THRU PILE SUPPORTED STUB ABUTMENT
(S. Abut. with riprap shown, N. Abut. with slopewall similar; see Ramp plans for slopewall details)



SECTION B-B



SECTION A-A

NOTES:

1. All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the west wingwall until intersecting the west side slope. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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7/22/2024

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	MFH
DRAWN	RMG
CHECKED	MFH

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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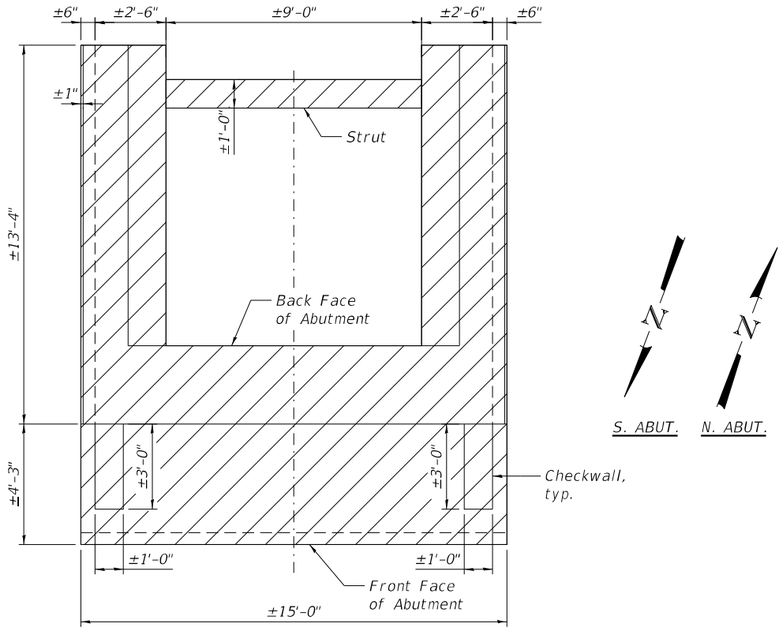
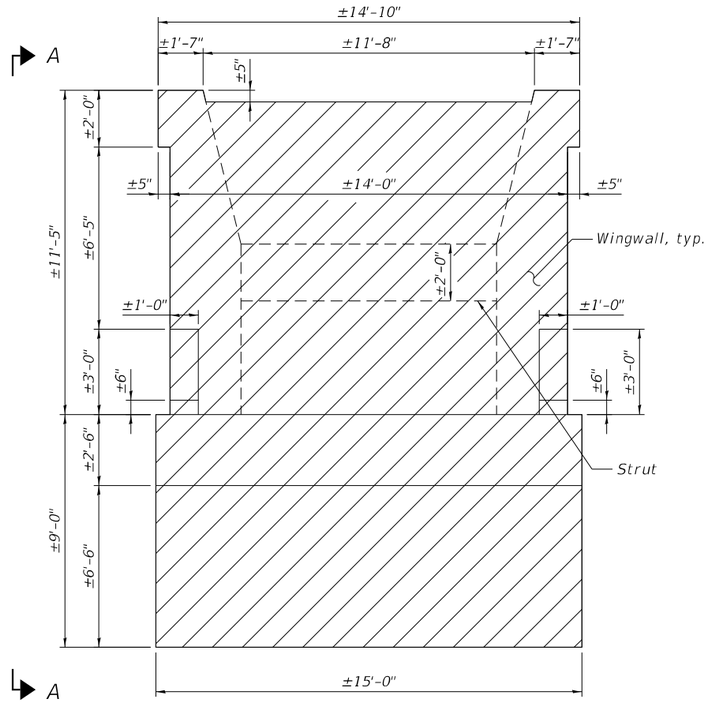
GENERAL DATA
STRUCTURE NO. 052-0082
SHEET NO. S-3 OF S-50 SHEETS

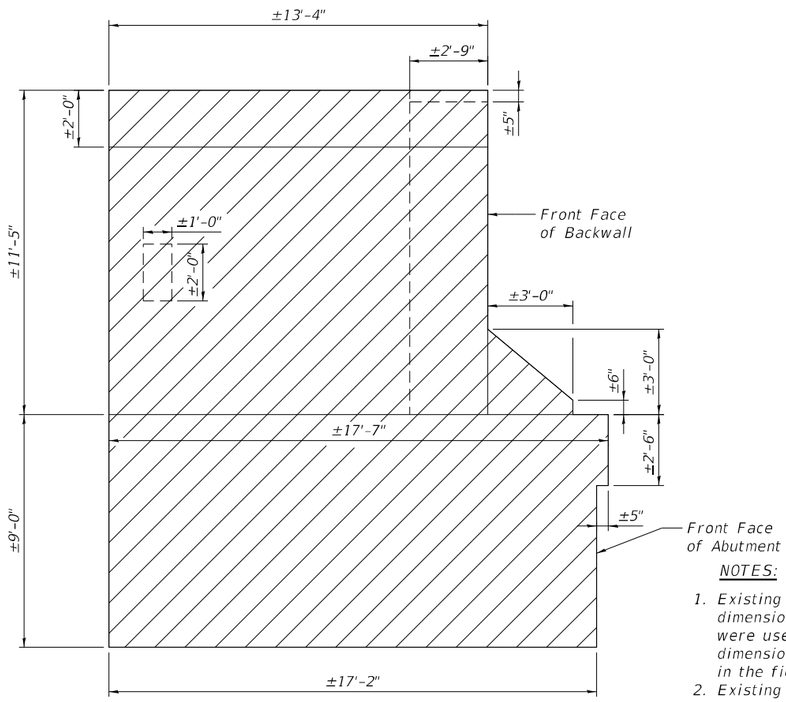
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	106
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			



PLAN



FRONT ELEVATION



VIEW A-A

LEGEND

Concrete Removal

NOTES:

1. Existing plans are not available for this structure. The shape and dimensions of the existing abutments below grade are assumed and were used to estimate the quantity of Concrete Removal. The actual dimensions and quantity of removal for payment shall be determined in the field.
2. Existing abutments shall be removed to at least 1 ft below the proposed elevation of subgrade or ground surface. Portions of the existing abutments below this elevation that interfere with the proposed construction shall also be removed.

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	MFH
DRAWN	RMG
CHECKED	MFH

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ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-4 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	107
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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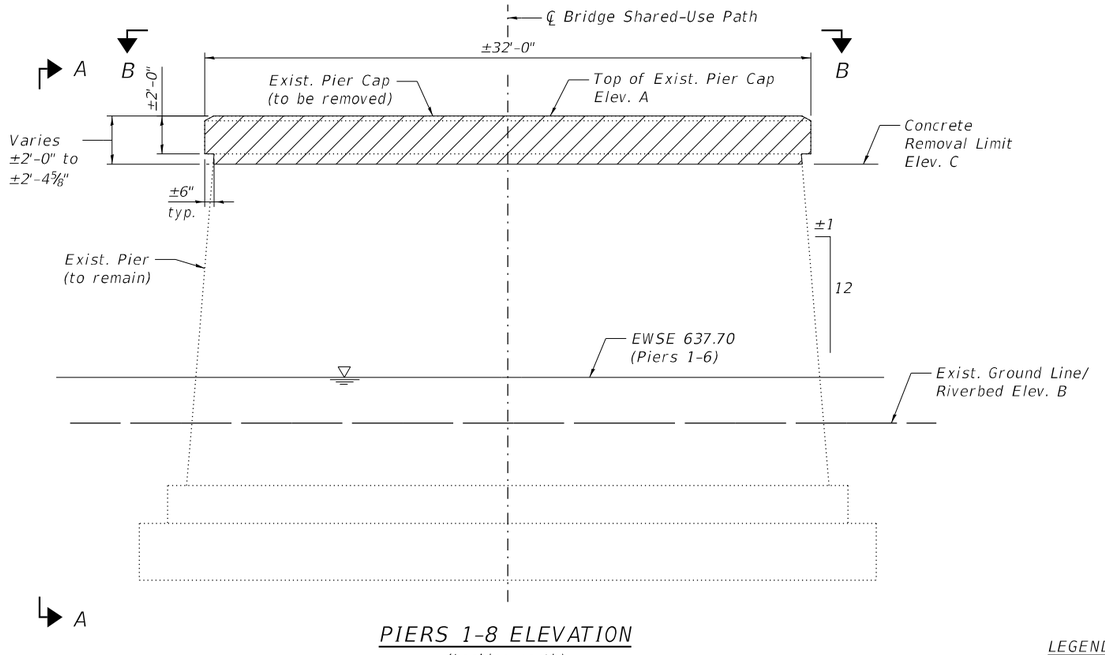
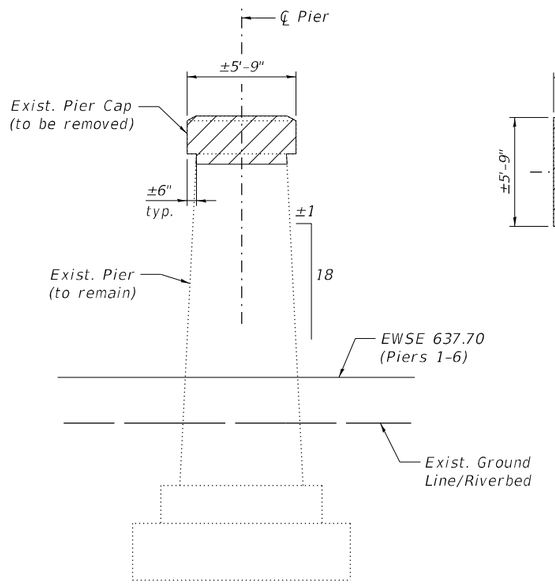
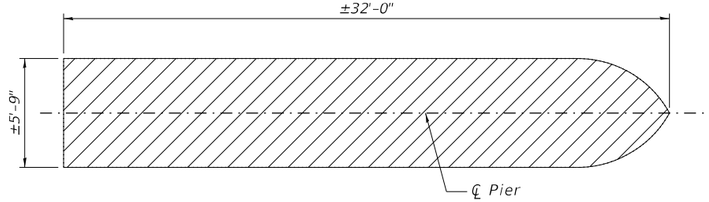


PIERS 1-8 ELEVATION

(Looking north)



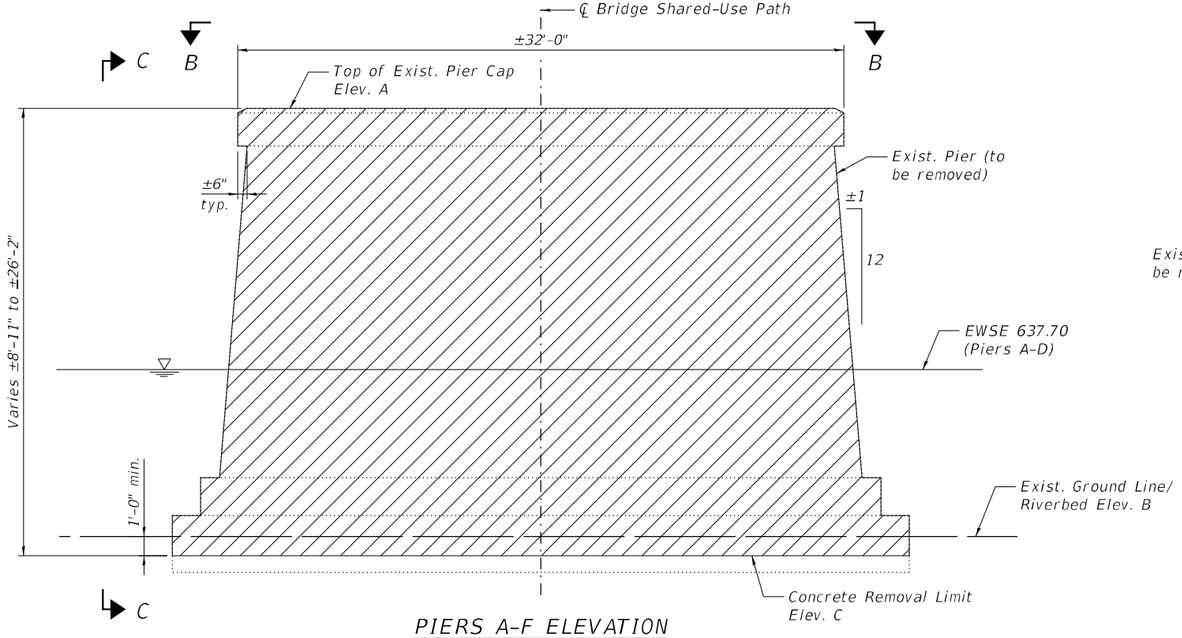
VIEW A-A



VIEW B-B

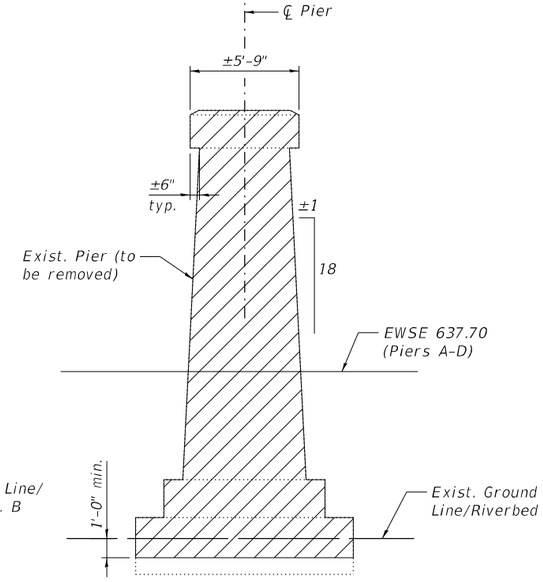
LEGEND

Concrete Removal



PIERS A-F ELEVATION

(Looking north)



VIEW C-C

ELEVATION TABLE

Pier	A	B	C
1	±651.71	±634.90	649.43
2	±651.69	±630.70	649.43
3	±651.55	±630.40	649.43
4	±651.59	±630.40	649.43
5	±651.82	±632.40	649.43
6	±651.46	±639.30	649.43
7	±651.44	±643.10	649.43
8	±651.50	±643.10	649.43
A	±651.69	±629.90	±628.90
B	±651.58	±626.40	±625.40
C	±651.59	±629.20	±628.20
D	±651.74	±633.20	±632.20
E	±651.45	±643.50	±642.50
F	±651.47	±643.20	±642.20

c:\pwwordir\benesch projects\projects\d0171931\PIER REMOVAL DETAILS (1 OF 2).dgn
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REVISION	DATE	BY	REMARKS

DESIGNED SLV
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DRAWN RMG
CHECKED MFH

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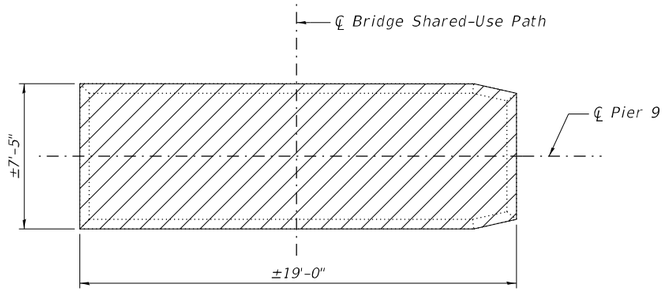
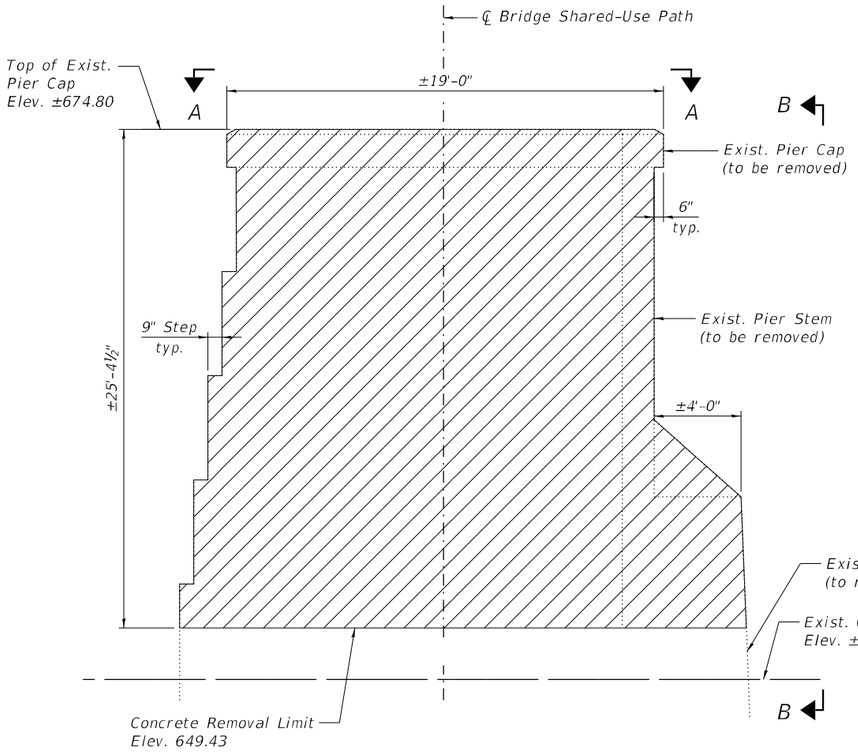
PIER REMOVAL DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-5 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	108
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

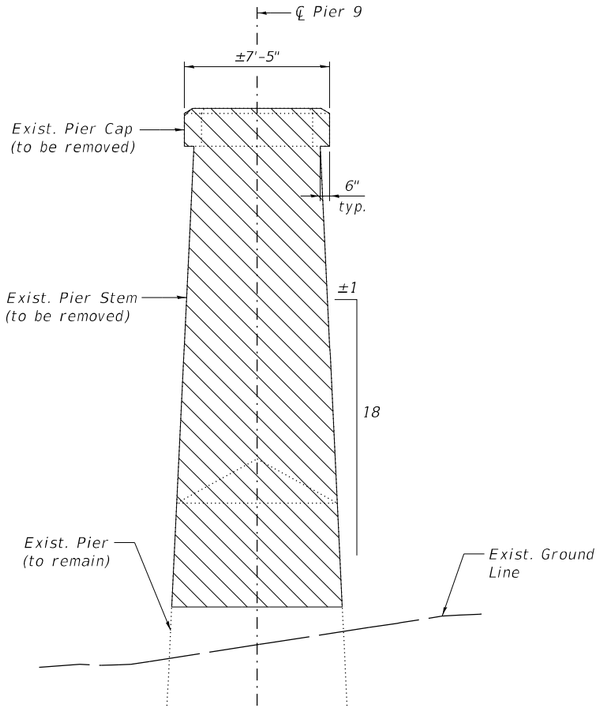


VIEW A-A



PIER 9 - ELEVATION

(Looking north)



VIEW B-B

LEGEND

Concrete Removal

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REVISION	DATE	BY	REMARKS

DESIGNED	SLV
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DRAWN	RMG
CHECKED	MFH

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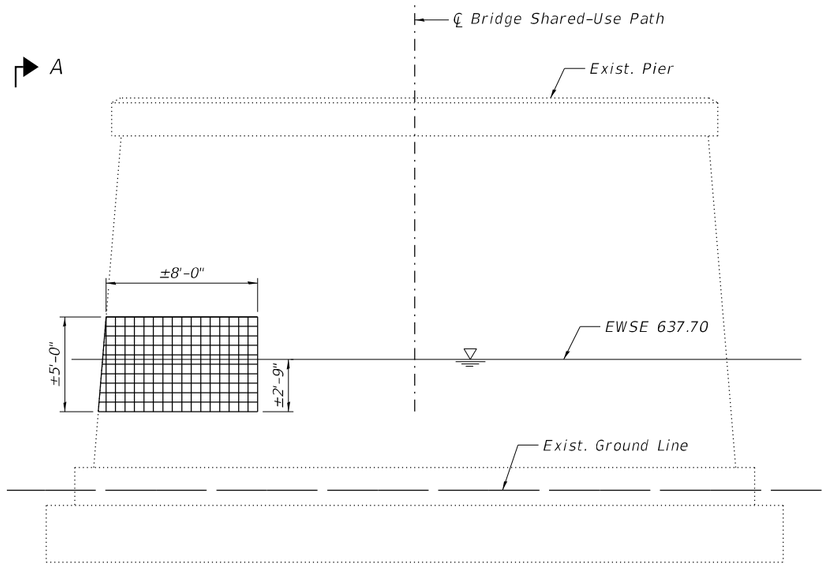
PIER REMOVAL DETAILS (2 OF 2)
STRUCTURE NO. 052-0082

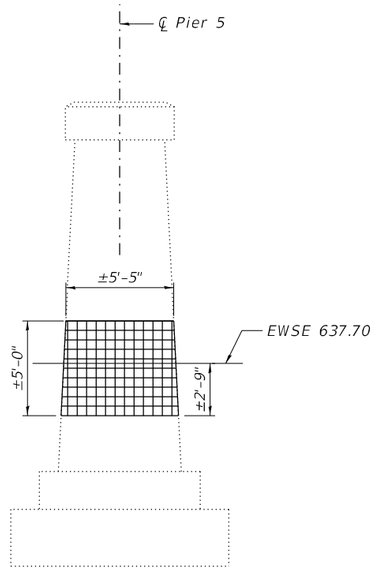
SHEET NO. S-6 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	109
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		



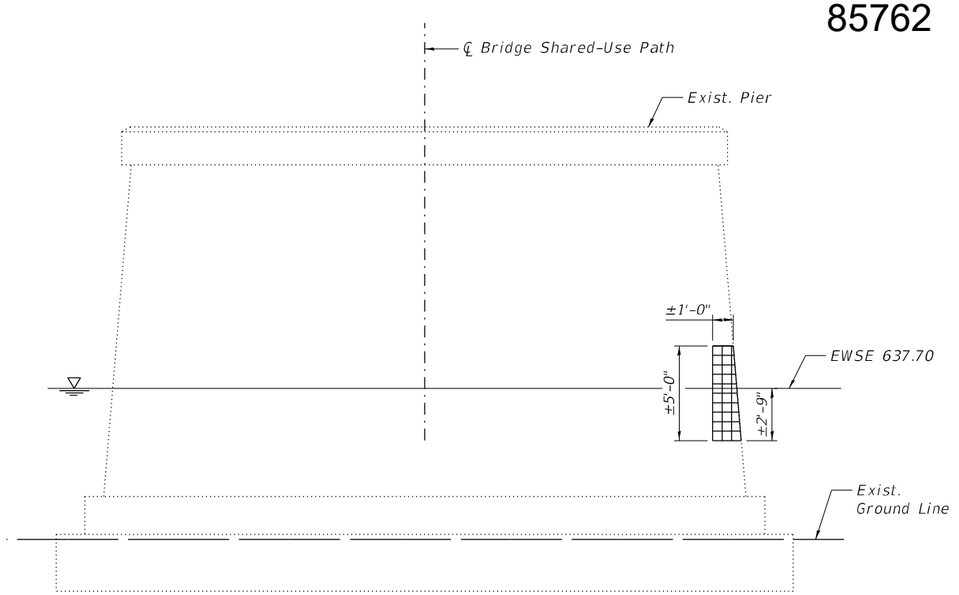
PIER 5 ELEVATION

(Looking north; partial removal not shown for clarity)



VIEW A-A

(Looking east; partial removal not shown for clarity)



PIER 5 ELEVATION

(Looking south; partial removal not shown for clarity)

LEGEND

Underwater Concrete Repair

NOTES:

1. The deteriorated areas indicated on this sheet shall be repaired. Additional repairs to Piers 1-9, shall be determined in the field by the Engineer and repaired using the appropriate pay item. Allowances have been provided for the following repair items:

   A) Epoxy Crack Injection
   B) Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
   C) Structural Repair of Concrete (Depth Greater Than 5 Inches)
   D) Underwater Concrete Repair

2. The primary intent of the additional repairs is to avoid discoloration or spalling of the piers after they have been stained. Areas with exposed/corroding rebar and delaminated concrete shall be repaired. Areas where the surface is rough, but sound with no exposed rebar (e.g. shallow spalls, divots, gouges, washouts, etc.), need not be repaired.

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REVISION	DATE	BY	REMARKS

DESIGNED	SLV
CHECKED	MFH
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CHECKED	MFH

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RIVER CROSSING SHARED-USE PATH
2024

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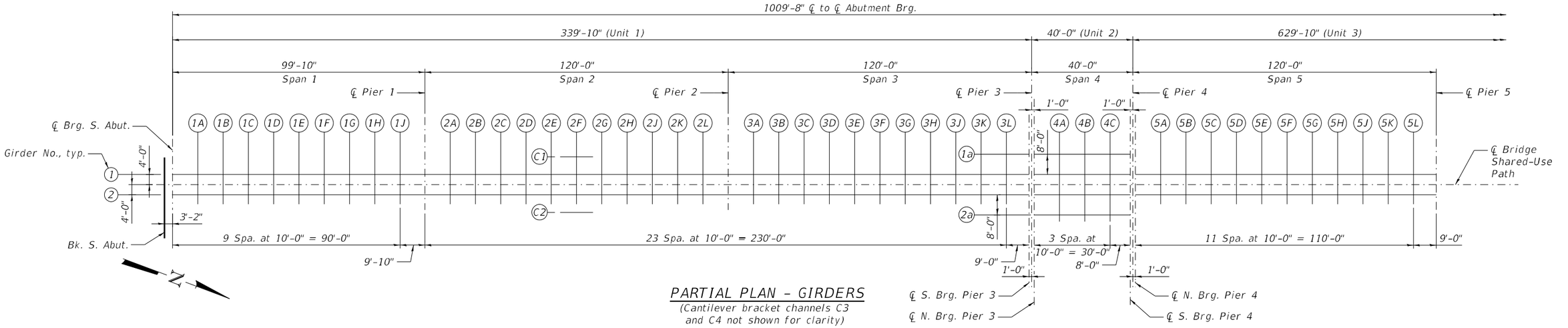
PIER REPAIR DETAILS
STRUCTURE NO. 052-0082

SHEET NO. S-7 OF S-50 SHEETS

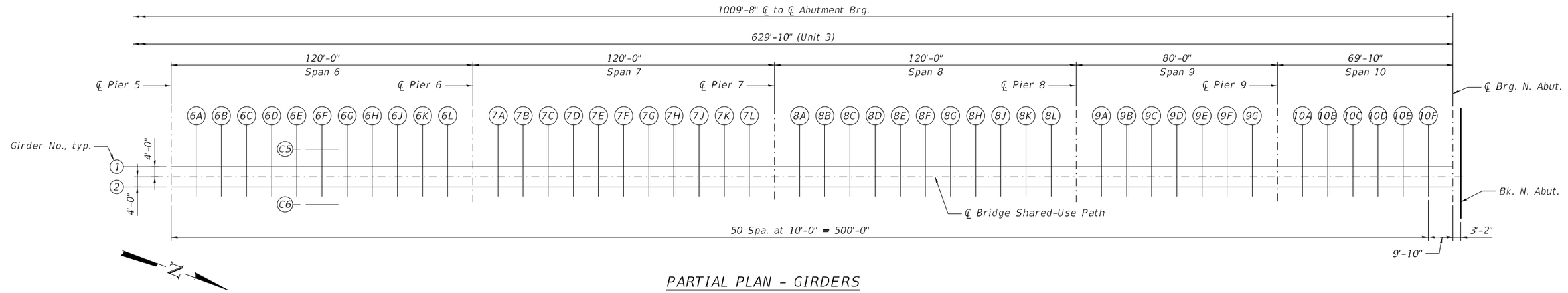
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	110
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

85762

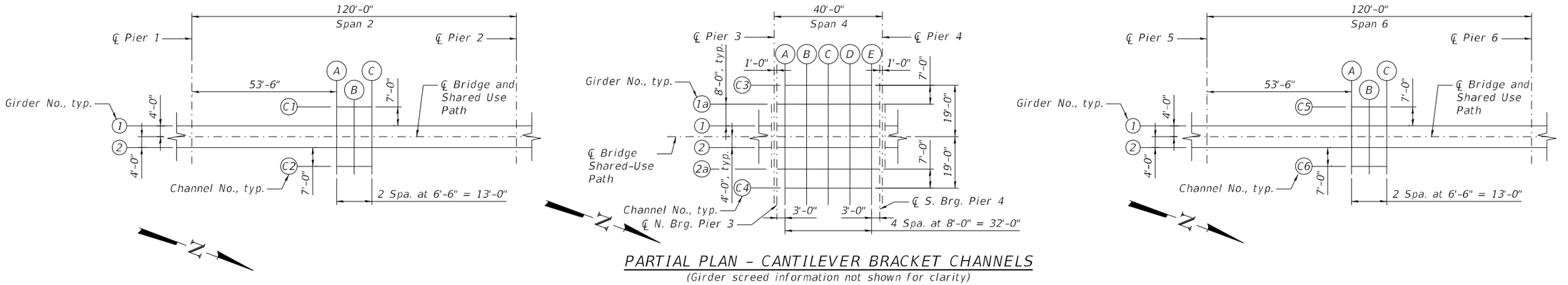


PARTIAL PLAN - GIRDERS

(Cantilever bracket channels C3 and C4 not shown for clarity)



PARTIAL PLAN - GIRDERS



PARTIAL PLAN - CANTILEVER BRACKET CHANNELS

(Girder screed information not shown for clarity)

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7/22/2024

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

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RIVER CROSSING SHARED-USE PATH
2024

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TOP OF SLAB ELEVATIONS PLAN
STRUCTURE NO. 052-0082
SHEET NO. S-8 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	111
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5L7(916)		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	16+37.00	-4.00	679.80	679.80
CL. Brg. S. Abut.	16+40.17	-4.00	679.76	679.76
1A	16+50.17	-4.00	679.61	679.68
1B	16+60.17	-4.00	679.46	679.59
1C	16+70.17	-4.00	679.31	679.49
1D	16+80.17	-4.00	679.16	679.35
1E	16+90.17	-4.00	679.01	679.20
1F	17+00.17	-4.00	678.86	679.02
1G	17+10.17	-4.00	678.71	678.83
1H	17+20.17	-4.00	678.56	678.63
1J	17+30.17	-4.00	678.41	678.44
CL. Brg. Pier 1	17+40.00	-4.00	678.26	678.26
2A	17+50.00	-4.00	678.11	678.09
2B	17+60.00	-4.00	677.96	677.94
2C	17+70.00	-4.00	677.81	677.79
2D	17+80.00	-4.00	677.66	677.64
2E	17+90.00	-4.00	677.51	677.50
2F	18+00.00	-4.00	677.36	677.34
2G	18+10.00	-4.00	677.21	677.18
2H	18+20.00	-4.00	677.06	677.02
2J	18+30.00	-4.00	676.91	676.86
2K	18+40.00	-4.00	676.76	676.71
2L	18+50.00	-4.00	676.61	676.58
CL. Brg. Pier 2	18+60.00	-4.00	676.46	676.46
3A	18+70.00	-4.00	676.31	676.36
3B	18+80.00	-4.00	676.16	676.28
3C	18+90.00	-4.00	676.01	676.20
3D	19+00.00	-4.00	675.86	676.13
3E	19+10.00	-4.00	675.71	676.04
3F	19+20.00	-4.00	675.56	675.94
3G	19+30.00	-4.00	675.41	675.80
3H	19+40.00	-4.00	675.26	675.62
3J	19+50.00	-4.00	675.11	675.41
3K	19+60.00	-4.00	674.96	675.18
3L	19+70.00	-4.00	674.81	674.92
CL. S. Brg. Pier 3	19+79.00	-4.00	674.67	674.67
CL. Pier 3	19+80.00	-4.00	674.66	674.66
CL. N. Brg. Pier 3	19+81.00	-4.00	674.65	674.65
4A	19+91.00	-4.00	674.61	674.62
4B	20+01.00	-4.00	674.56	674.58
4C	20+11.00	-4.00	674.51	674.52
CL. S. Brg. Pier 4	20+19.00	-4.00	674.47	674.47
CL. Pier 4	20+20.00	-4.00	674.46	674.46
CL. N. Brg. Pier 4	20+21.00	-4.00	674.45	674.45
5A	20+31.00	-4.00	674.35	674.47
5B	20+41.00	-4.00	674.25	674.47
5C	20+51.00	-4.00	674.15	674.45
5D	20+61.00	-4.00	674.05	674.40
5E	20+71.00	-4.00	673.95	674.32
5F	20+81.00	-4.00	673.85	674.21
5G	20+91.00	-4.00	673.75	674.06
5H	21+01.00	-4.00	673.65	673.89
5J	21+11.00	-4.00	673.55	673.72
5K	21+21.00	-4.00	673.45	673.55
5L	21+31.00	-4.00	673.35	673.39

GIRDER 1 (CONT'D)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. Brg. Pier 5	21+40.00	-4.00	673.26	673.26
6A	21+50.00	-4.00	673.16	673.13
6B	21+60.00	-4.00	673.06	673.02
6C	21+70.00	-4.00	672.96	672.93
6D	21+80.00	-4.00	672.86	672.84
6E	21+90.00	-4.00	672.76	672.76
6F	22+00.00	-4.00	672.66	672.68
6G	22+10.00	-4.00	672.56	672.58
6H	22+20.00	-4.00	672.46	672.48
6J	22+30.00	-4.00	672.36	672.37
6K	22+40.00	-4.00	672.26	672.26
6L	22+50.00	-4.00	672.16	672.16
CL. Brg. Pier 6	22+60.00	-4.00	672.06	672.06
7A	22+70.00	-4.00	671.96	671.98
7B	22+80.00	-4.00	671.86	671.90
7C	22+90.00	-4.00	671.76	671.83
7D	23+00.00	-4.00	671.66	671.76
7E	23+10.00	-4.00	671.56	671.68
7F	23+20.00	-4.00	671.46	671.58
7G	23+30.00	-4.00	671.36	671.46
7H	23+40.00	-4.00	671.26	671.34
7J	23+50.00	-4.00	671.16	671.21
7K	23+60.00	-4.00	671.06	671.08
7L	23+70.00	-4.00	670.96	670.96
CL. Brg. Pier 7	23+80.00	-4.00	670.86	670.86
8A	23+90.00	-4.00	670.76	670.78
8B	24+00.00	-4.00	670.66	670.71
8C	24+10.00	-4.00	670.56	670.65
8D	24+20.00	-4.00	670.46	670.59
8E	24+30.00	-4.00	670.36	670.52
8F	24+40.00	-4.00	670.26	670.44
8G	24+50.00	-4.00	670.16	670.34
8H	24+60.00	-4.00	670.06	670.22
8J	24+70.00	-4.00	669.96	670.08
8K	24+80.00	-4.00	669.86	669.94
8L	24+90.00	-4.00	669.76	669.79
CL. Brg. Pier 8	25+00.00	-4.00	669.66	669.66
9A	25+10.00	-4.00	669.56	669.54
9B	25+20.00	-4.00	669.46	669.43
9C	25+30.00	-4.00	669.36	669.33
9D	25+40.00	-4.00	669.26	669.24
9E	25+50.00	-4.00	669.16	669.14
9F	25+60.00	-4.00	669.06	669.06
9G	25+70.00	-4.00	668.96	668.96
CL. Brg. Pier 9	25+80.00	-4.00	668.86	668.86
10A	25+90.00	-4.00	668.86	668.88
10B	26+00.00	-4.00	668.86	668.89
10C	26+10.00	-4.00	668.86	668.91
10D	26+20.00	-4.00	668.86	668.91
10E	26+30.00	-4.00	668.86	668.91
10F	26+40.00	-4.00	668.86	668.89
CL. Brg. N. Abut.	26+49.83	-4.00	668.86	668.86
Bk. N. Abut.	26+53.00	-4.00	668.86	668.86

℄ BRIDGE SHARED-USE PATH

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	16+37.00	0.00	679.86	679.86
CL. Brg. S. Abut.	16+40.17	0.00	679.82	679.82
1A	16+50.17	0.00	679.67	679.74
1B	16+60.17	0.00	679.52	679.65
1C	16+70.17	0.00	679.37	679.55
1D	16+80.17	0.00	679.22	679.41
1E	16+90.17	0.00	679.07	679.26
1F	17+00.17	0.00	678.92	679.08
1G	17+10.17	0.00	678.77	678.89
1H	17+20.17	0.00	678.62	678.69
1J	17+30.17	0.00	678.47	678.50
CL. Brg. Pier 1	17+40.00	0.00	678.32	678.32
2A	17+50.00	0.00	678.17	678.15
2B	17+60.00	0.00	678.02	678.00
2C	17+70.00	0.00	677.87	677.85
2D	17+80.00	0.00	677.72	677.70
2E	17+90.00	0.00	677.57	677.56
2F	18+00.00	0.00	677.42	677.40
2G	18+10.00	0.00	677.27	677.24
2H	18+20.00	0.00	677.12	677.08
2J	18+30.00	0.00	676.97	676.92
2K	18+40.00	0.00	676.82	676.77
2L	18+50.00	0.00	676.67	676.64
CL. Brg. Pier 2	18+60.00	0.00	676.52	676.52
3A	18+70.00	0.00	676.37	676.42
3B	18+80.00	0.00	676.22	676.34
3C	18+90.00	0.00	676.07	676.26
3D	19+00.00	0.00	675.92	676.19
3E	19+10.00	0.00	675.77	676.10
3F	19+20.00	0.00	675.62	676.00
3G	19+30.00	0.00	675.47	675.86
3H	19+40.00	0.00	675.32	675.68
3J	19+50.00	0.00	675.17	675.47
3K	19+60.00	0.00	675.02	675.24
3L	19+70.00	0.00	674.87	674.98
CL. S. Brg. Pier 3	19+79.00	0.00	674.73	674.73
CL. Pier 3	19+80.00	0.00	674.72	674.72
CL. N. Brg. Pier 3	19+81.00	0.00	674.71	674.71
4A	19+91.00	0.00	674.67	674.68
4B	20+01.00	0.00	674.62	674.64
4C	20+11.00	0.00	674.57	674.58
CL. S. Brg. Pier 4	20+19.00	0.00	674.53	674.53
CL. Pier 4	20+20.00	0.00	674.52	674.52
CL. N. Brg. Pier 4	20+21.00	0.00	674.51	674.51
5A	20+31.00	0.00	674.41	674.53
5B	20+41.00	0.00	674.31	674.53
5C	20+51.00	0.00	674.21	674.51
5D	20+61.00	0.00	674.11	674.46
5E	20+71.00	0.00	674.01	674.38
5F	20+81.00	0.00	673.91	674.27
5G	20+91.00	0.00	673.81	674.12
5H	21+01.00	0.00	673.71	673.95
5J	21+11.00	0.00	673.61	673.78
5K	21+21.00	0.00	673.51	673.61
5L	21+31.00	0.00	673.41	673.45

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

benesch
Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

TOP OF SLAB ELEVATIONS (1 OF 3)
STRUCTURE NO. 052-0082
SHEET NO. S-9 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	112
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

℄ BRIDGE SHARED-USE PATH (CONT'D)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. Brg. Pier 5	21+40.00	0.00	673.32	673.32
6A	21+50.00	0.00	673.22	673.19
6B	21+60.00	0.00	673.12	673.08
6C	21+70.00	0.00	673.02	672.99
6D	21+80.00	0.00	672.92	672.90
6E	21+90.00	0.00	672.82	672.82
6F	22+00.00	0.00	672.72	672.74
6G	22+10.00	0.00	672.62	672.64
6H	22+20.00	0.00	672.52	672.54
6J	22+30.00	0.00	672.42	672.43
6K	22+40.00	0.00	672.32	672.32
6L	22+50.00	0.00	672.22	672.22
CL. Brg. Pier 6	22+60.00	0.00	672.12	672.12
7A	22+70.00	0.00	672.02	672.04
7B	22+80.00	0.00	671.92	671.96
7C	22+90.00	0.00	671.82	671.89
7D	23+00.00	0.00	671.72	671.82
7E	23+10.00	0.00	671.62	671.74
7F	23+20.00	0.00	671.52	671.64
7G	23+30.00	0.00	671.42	671.52
7H	23+40.00	0.00	671.32	671.40
7J	23+50.00	0.00	671.22	671.27
7K	23+60.00	0.00	671.12	671.14
7L	23+70.00	0.00	671.02	671.02
CL. Brg. Pier 7	23+80.00	0.00	670.92	670.92
8A	23+90.00	0.00	670.82	670.84
8B	24+00.00	0.00	670.72	670.77
8C	24+10.00	0.00	670.62	670.71
8D	24+20.00	0.00	670.52	670.65
8E	24+30.00	0.00	670.42	670.58
8F	24+40.00	0.00	670.32	670.50
8G	24+50.00	0.00	670.22	670.40
8H	24+60.00	0.00	670.12	670.28
8J	24+70.00	0.00	670.02	670.14
8K	24+80.00	0.00	669.92	670.00
8L	24+90.00	0.00	669.82	669.85
CL. Brg. Pier 8	25+00.00	0.00	669.72	669.72
9A	25+10.00	0.00	669.62	669.60
9B	25+20.00	0.00	669.52	669.49
9C	25+30.00	0.00	669.42	669.39
9D	25+40.00	0.00	669.32	669.30
9E	25+50.00	0.00	669.22	669.20
9F	25+60.00	0.00	669.12	669.12
9G	25+70.00	0.00	669.02	669.02
CL. Brg. Pier 9	25+80.00	0.00	668.92	668.92
10A	25+90.00	0.00	668.92	668.94
10B	26+00.00	0.00	668.92	668.95
10C	26+10.00	0.00	668.92	668.97
10D	26+20.00	0.00	668.92	668.97
10E	26+30.00	0.00	668.92	668.97
10F	26+40.00	0.00	668.92	668.95
CL. Brg. N. Abut.	26+49.83	0.00	668.92	668.92
Bk. N. Abut.	26+53.00	0.00	668.92	668.92

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	16+37.00	+4.00	679.80	679.80
CL. Brg. S. Abut.	16+40.17	+4.00	679.76	679.76
1A	16+50.17	+4.00	679.61	679.68
1B	16+60.17	+4.00	679.46	679.59
1C	16+70.17	+4.00	679.31	679.49
1D	16+80.17	+4.00	679.16	679.35
1E	16+90.17	+4.00	679.01	679.20
1F	17+00.17	+4.00	678.86	679.02
1G	17+10.17	+4.00	678.71	678.83
1H	17+20.17	+4.00	678.56	678.63
1J	17+30.17	+4.00	678.41	678.44
CL. Brg. Pier 1	17+40.00	+4.00	678.26	678.26
2A	17+50.00	+4.00	678.11	678.09
2B	17+60.00	+4.00	677.96	677.94
2C	17+70.00	+4.00	677.81	677.79
2D	17+80.00	+4.00	677.66	677.64
2E	17+90.00	+4.00	677.51	677.50
2F	18+00.00	+4.00	677.36	677.34
2G	18+10.00	+4.00	677.21	677.18
2H	18+20.00	+4.00	677.06	677.02
2J	18+30.00	+4.00	676.91	676.86
2K	18+40.00	+4.00	676.76	676.71
2L	18+50.00	+4.00	676.61	676.58
CL. Brg. Pier 2	18+60.00	+4.00	676.46	676.46
3A	18+70.00	+4.00	676.31	676.36
3B	18+80.00	+4.00	676.16	676.28
3C	18+90.00	+4.00	676.01	676.20
3D	19+00.00	+4.00	675.86	676.13
3E	19+10.00	+4.00	675.71	676.04
3F	19+20.00	+4.00	675.56	675.94
3G	19+30.00	+4.00	675.41	675.80
3H	19+40.00	+4.00	675.26	675.62
3J	19+50.00	+4.00	675.11	675.41
3K	19+60.00	+4.00	674.96	675.18
3L	19+70.00	+4.00	674.81	674.92
CL. S. Brg. Pier 3	19+79.00	+4.00	674.67	674.67
CL. Pier 3	19+80.00	+4.00	674.66	674.66
CL. N. Brg. Pier 3	19+81.00	+4.00	674.65	674.65
4A	19+91.00	+4.00	674.61	674.62
4B	20+01.00	+4.00	674.56	674.58
4C	20+11.00	+4.00	674.51	674.52
CL. S. Brg. Pier 4	20+19.00	+4.00	674.47	674.47
CL. Pier 4	20+20.00	+4.00	674.46	674.46
CL. N. Brg. Pier 4	20+21.00	+4.00	674.45	674.45
5A	20+31.00	+4.00	674.35	674.47
5B	20+41.00	+4.00	674.25	674.47
5C	20+51.00	+4.00	674.15	674.45
5D	20+61.00	+4.00	674.05	674.40
5E	20+71.00	+4.00	673.95	674.32
5F	20+81.00	+4.00	673.85	674.21
5G	20+91.00	+4.00	673.75	674.06
5H	21+01.00	+4.00	673.65	673.89
5J	21+11.00	+4.00	673.55	673.72
5K	21+21.00	+4.00	673.45	673.55
5L	21+31.00	+4.00	673.35	673.39

GIRDER 2 (CONT'D)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. Brg. Pier 5	21+40.00	+4.00	673.26	673.26
6A	21+50.00	+4.00	673.16	673.13
6B	21+60.00	+4.00	673.06	673.02
6C	21+70.00	+4.00	672.96	672.93
6D	21+80.00	+4.00	672.86	672.84
6E	21+90.00	+4.00	672.76	672.76
6F	22+00.00	+4.00	672.66	672.68
6G	22+10.00	+4.00	672.56	672.58
6H	22+20.00	+4.00	672.46	672.48
6J	22+30.00	+4.00	672.36	672.37
6K	22+40.00	+4.00	672.26	672.26
6L	22+50.00	+4.00	672.16	672.16
CL. Brg. Pier 6	22+60.00	+4.00	672.06	672.06
7A	22+70.00	+4.00	671.96	671.98
7B	22+80.00	+4.00	671.86	671.90
7C	22+90.00	+4.00	671.76	671.83
7D	23+00.00	+4.00	671.66	671.76
7E	23+10.00	+4.00	671.56	671.68
7F	23+20.00	+4.00	671.46	671.58
7G	23+30.00	+4.00	671.36	671.46
7H	23+40.00	+4.00	671.26	671.34
7J	23+50.00	+4.00	671.16	671.21
7K	23+60.00	+4.00	671.06	671.08
7L	23+70.00	+4.00	670.96	670.96
CL. Brg. Pier 7	23+80.00	+4.00	670.86	670.86
8A	23+90.00	+4.00	670.76	670.78
8B	24+00.00	+4.00	670.66	670.71
8C	24+10.00	+4.00	670.56	670.65
8D	24+20.00	+4.00	670.46	670.59
8E	24+30.00	+4.00	670.36	670.52
8F	24+40.00	+4.00	670.26	670.44
8G	24+50.00	+4.00	670.16	670.34
8H	24+60.00	+4.00	670.06	670.22
8J	24+70.00	+4.00	669.96	670.08
8K	24+80.00	+4.00	669.86	669.94
8L	24+90.00	+4.00	669.76	669.79
CL. Brg. Pier 8	25+00.00	+4.00	669.66	669.66
9A	25+10.00	+4.00	669.56	669.54
9B	25+20.00	+4.00	669.46	669.43
9C	25+30.00	+4.00	669.36	669.33
9D	25+40.00	+4.00	669.26	669.24
9E	25+50.00	+4.00	669.16	669.14
9F	25+60.00	+4.00	669.06	669.06
9G	25+70.00	+4.00	668.96	668.96
CL. Brg. Pier 9	25+80.00	+4.00	668.86	668.86
10A	25+90.00	+4.00	668.86	668.88
10B	26+00.00	+4.00	668.86	668.89
10C	26+10.00	+4.00	668.86	668.91
10D	26+20.00	+4.00	668.86	668.91
10E	26+30.00	+4.00	668.86	668.91
10F	26+40.00	+4.00	668.86	668.89
CL. Brg. N. Abut.	26+49.83	+4.00	668.86	668.86
Bk. N. Abut.	26+53.00	+4.00	668.86	668.86

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

benesch
Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

TOP OF SLAB ELEVATIONS (2 OF 3)
STRUCTURE NO. 052-0082
SHEET NO. S-10 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	113
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

GIRDER 1a

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. Pier 3	19+80.00	-12.00	674.54	674.54
CL. N. Brg. Pier 3	19+81.00	-12.00	674.53	674.53
4A	19+91.00	-12.00	674.49	674.50
4B	20+01.00	-12.00	674.44	674.46
4C	20+11.00	-12.00	674.39	674.40
CL. S. Brg. Pier 4	20+19.00	-12.00	674.35	674.35
CL. Pier 4	20+20.00	-12.00	674.34	674.34

GIRDER 2a

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL. Pier 3	19+80.00	12.00	674.54	674.54
CL. N. Brg. Pier 3	19+81.00	12.00	674.53	674.53
4A	19+91.00	12.00	674.49	674.50
4B	20+01.00	12.00	674.44	674.46
4C	20+11.00	12.00	674.39	674.40
CL. S. Brg. Pier 4	20+19.00	12.00	674.35	674.35
CL. Pier 4	20+20.00	12.00	674.34	674.34

CANTILEVER BRACKET CHANNEL C1

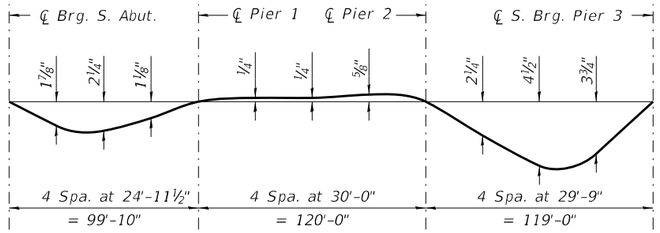
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	17+93.50	-11.00	677.35	677.34
B	18+00.00	-11.00	677.26	677.24
C	18+06.50	-11.00	677.16	677.13

CANTILEVER BRACKET CHANNEL C2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	17+93.50	11.00	677.35	677.34
B	18+00.00	11.00	677.26	677.24
C	18+06.50	11.00	677.16	677.13

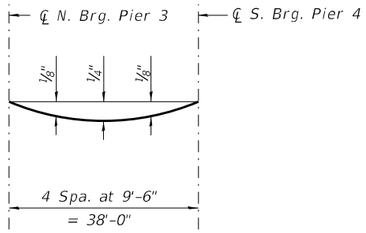
CANTILEVER BRACKET CHANNEL C3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	19+84.00	-19.00	674.42	674.43
B	19+92.00	-19.00	674.38	674.40
C	20+00.00	-19.00	674.34	674.36
D	20+08.00	-19.00	674.30	674.32
E	20+16.00	-19.00	674.26	674.27



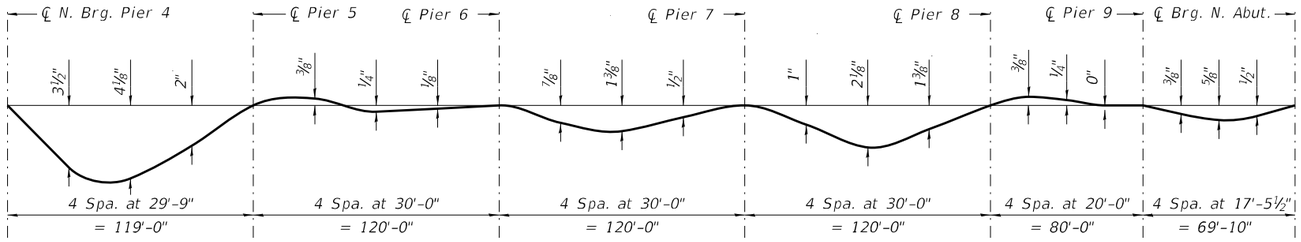
DEAD LOAD DEFLECTION DIAGRAM – UNIT 1

(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM – UNIT 2

(For Girders 1a, 1, 2, & 2a. Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM – UNIT 3

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet and Sheets S-9 to S-10.

CANTILEVER BRACKET CHANNEL C4

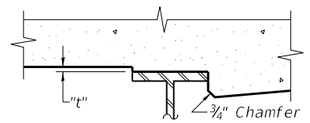
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	19+84.00	19.00	674.42	674.43
B	19+92.00	19.00	674.38	674.40
C	20+00.00	19.00	674.34	674.36
D	20+08.00	19.00	674.30	674.32
E	20+16.00	19.00	674.26	674.27

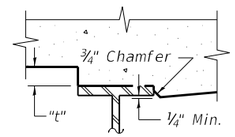
CANTILEVER BRACKET CHANNEL C5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	21+93.50	-11.00	672.62	672.63
B	22+00.00	-11.00	672.56	672.57
C	22+06.50	-11.00	672.49	672.51

CANTILEVER BRACKET CHANNEL C6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
A	21+93.50	11.00	672.62	672.63
B	22+00.00	11.00	672.56	672.57
C	22+06.50	11.00	672.49	672.51





To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown on Sheet S-8. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this sheet and on Sheets S-9 to S-10, minus the 7" slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

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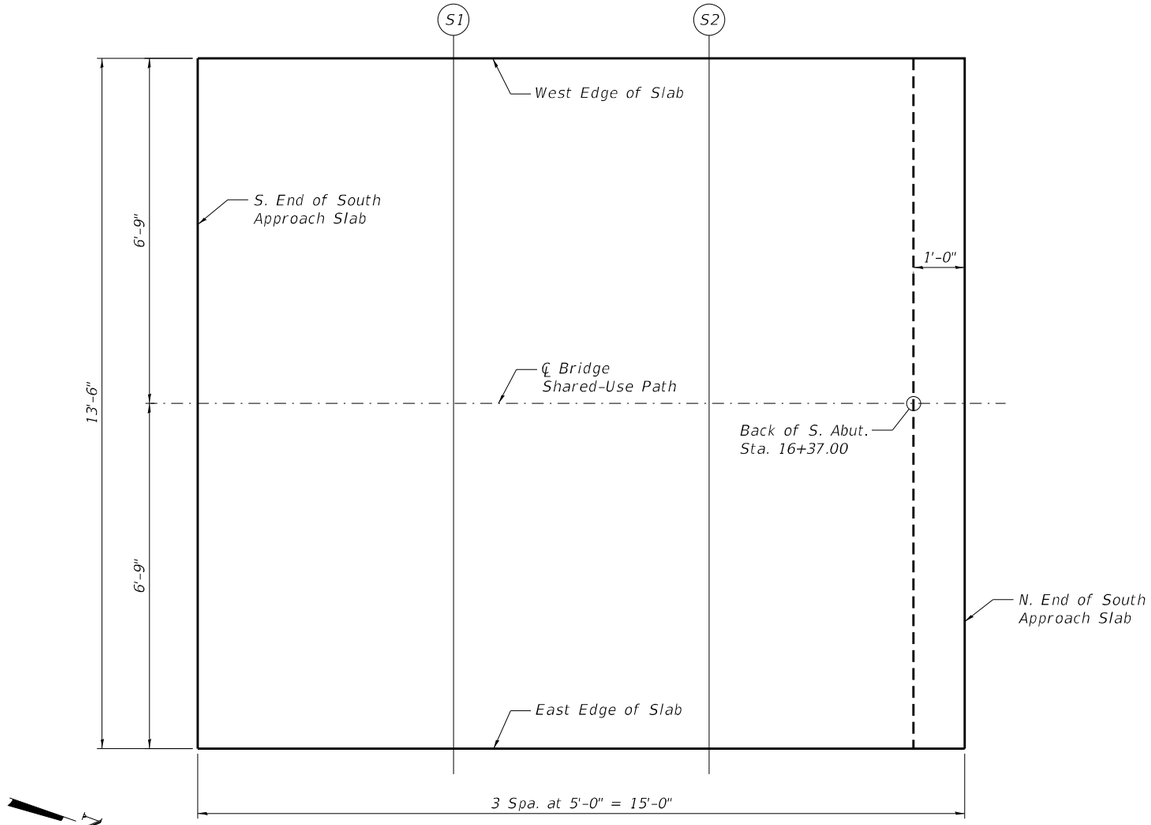
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

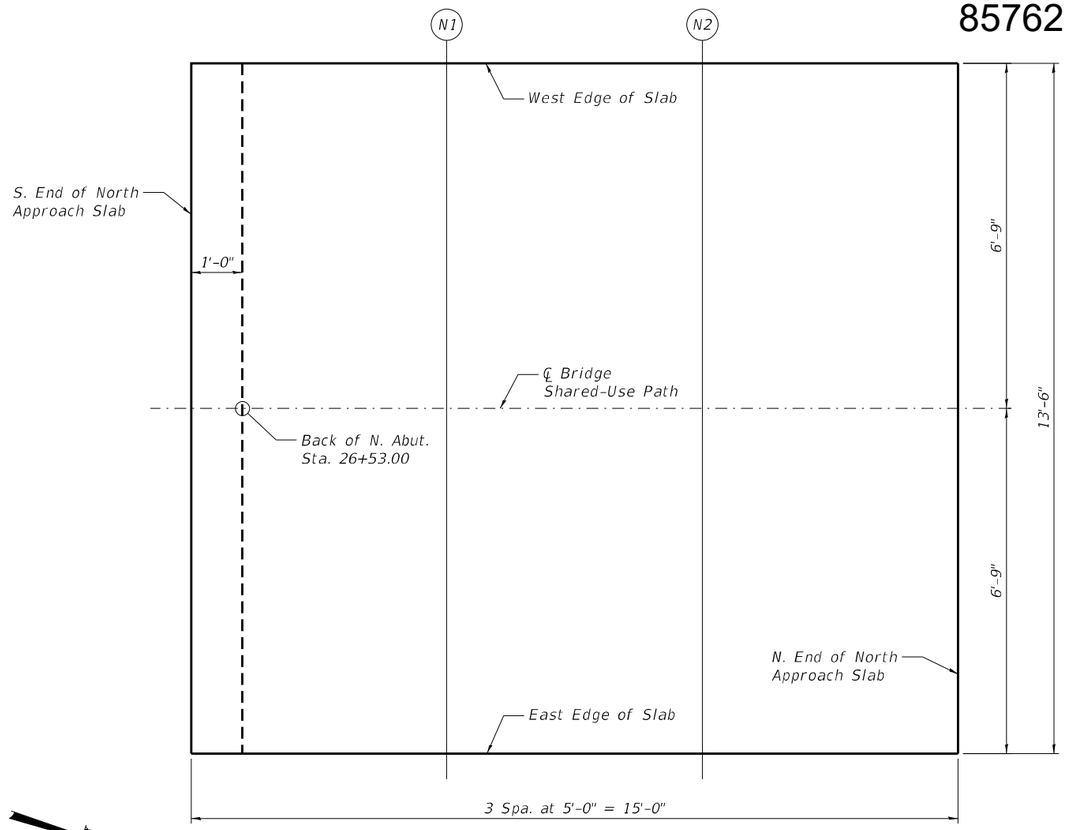
DIXON Here to Serve

TOP OF SLAB ELEVATIONS (3 OF 3)
STRUCTURE NO. 052-0082
SHEET NO. S-11 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	114
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		



PLAN - SOUTH APPROACH



PLAN - NORTH APPROACH

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	16+23.00	-6.75	679.97
S1	16+28.00	-6.75	679.90
S2	16+33.00	-6.75	679.82
N. End of S. Appr. Slab	16+38.00	-6.75	679.75

℄ MULTI-USE PATH

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	16+23.00	0.00	680.08
S1	16+28.00	0.00	680.00
S2	16+33.00	0.00	679.93
N. End of S. Appr. Slab	16+38.00	0.00	679.85

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	26+52.00	-6.75	668.82
N1	26+57.00	-6.75	668.82
N2	26+62.00	-6.75	668.82
N. End of N. Appr. Slab	26+67.00	-6.75	668.82

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	16+23.00	6.75	679.97
S1	16+28.00	6.75	679.90
S2	16+33.00	6.75	679.82
N. End of S. Appr. Slab	16+38.00	6.75	679.75

℄ MULTI-USE PATH

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	26+52.00	0.00	668.92
N1	26+57.00	0.00	668.92
N2	26+62.00	0.00	668.92
N. End of N. Appr. Slab	26+67.00	0.00	668.92

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	26+52.00	6.75	668.82
N1	26+57.00	6.75	668.82
N2	26+62.00	6.75	668.82
N. End of N. Appr. Slab	26+67.00	6.75	668.82

REVISION	DATE	BY	REMARKS

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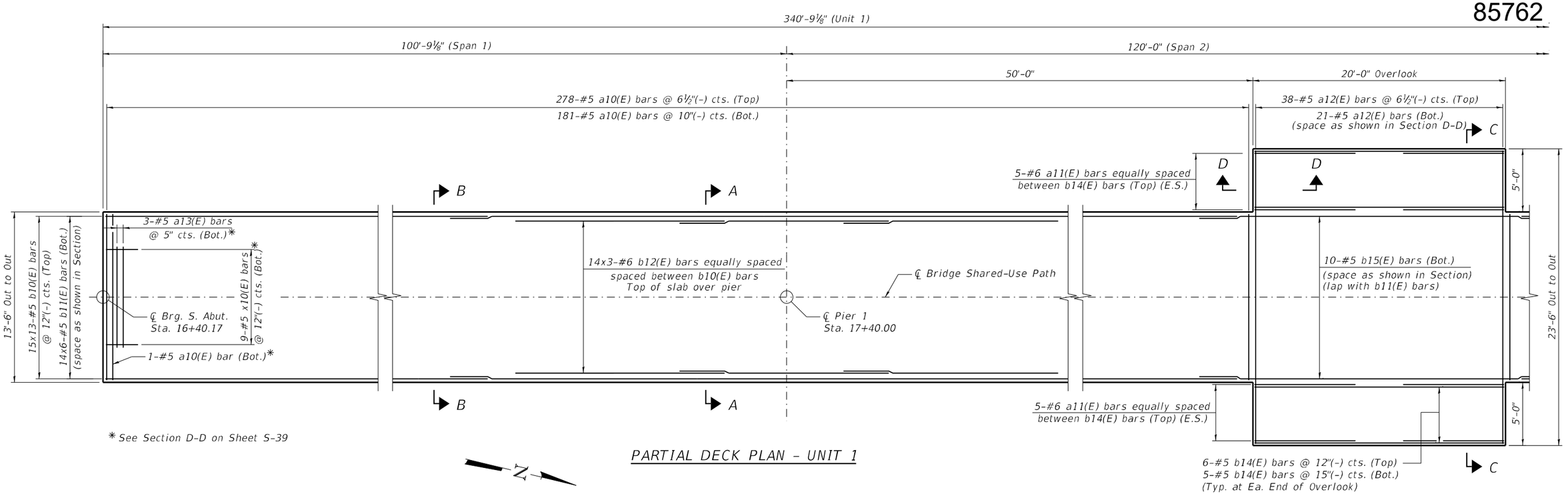
TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 052-0082
SHEET NO. S-12 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	115
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

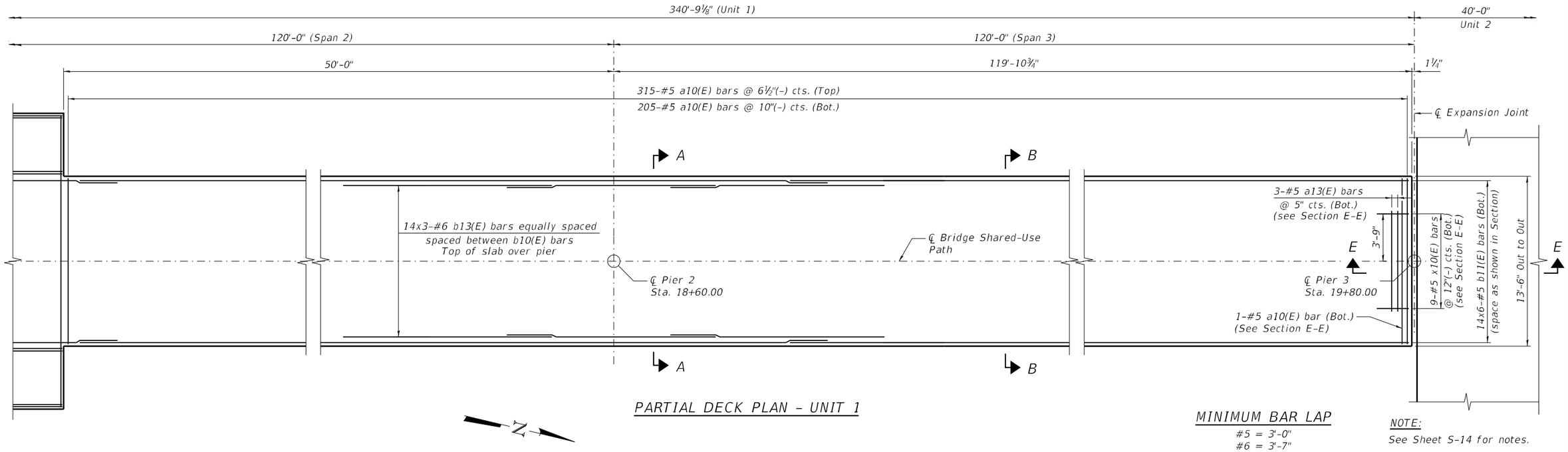
85762



* See Section D-D on Sheet S-39

PARTIAL DECK PLAN - UNIT 1

6-#5 b14(E) bars @ 12"(-) cts. (Top)
5-#5 b14(E) bars @ 15"(-) cts. (Bot.)
(Typ. at Ea. End of Overlook)



PARTIAL DECK PLAN - UNIT 1

MINIMUM BAR LAP

#5 = 3'-0"
#6 = 3'-7"

NOTE:
See Sheet S-14 for notes.

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REVISION	DATE	BY	REMARKS

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CHECKED	SLV
DRAWN	RMG
CHECKED	SLV

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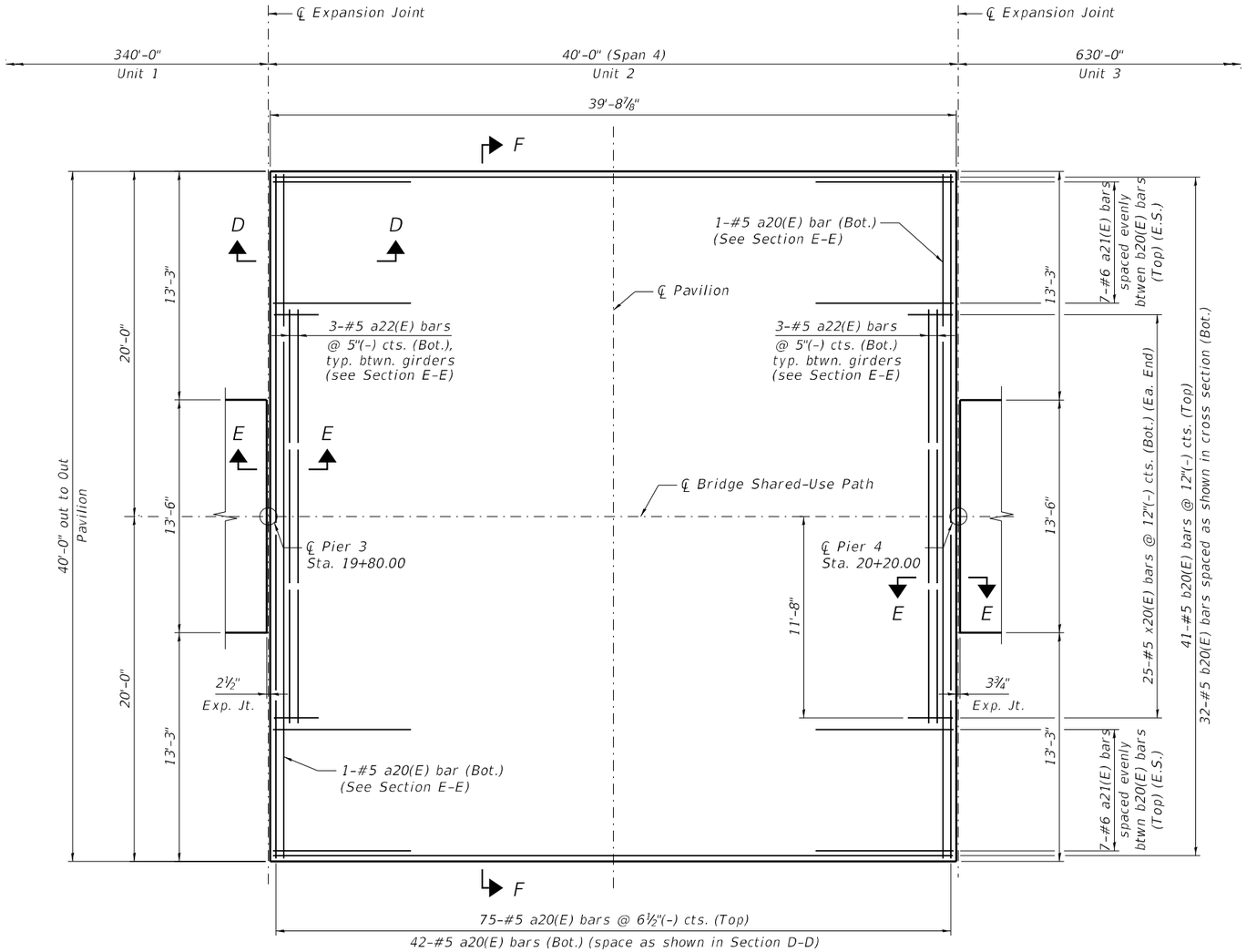
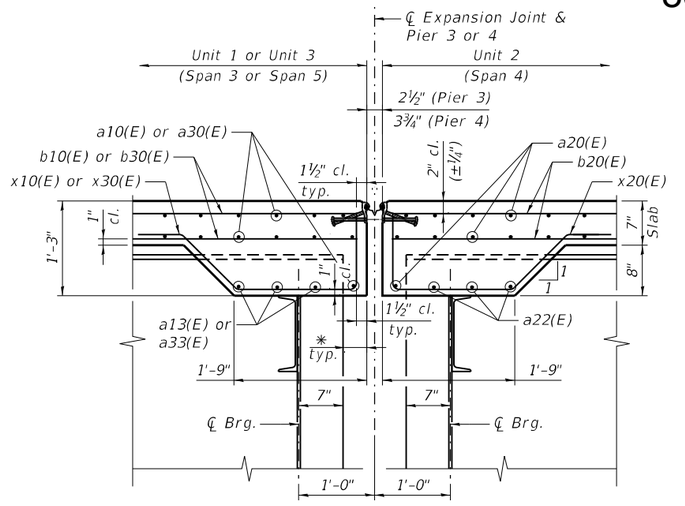
DECK PLAN - UNIT 1
STRUCTURE NO. 052-0082
SHEET NO. S-13 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	116
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



PLAN AT PAVILION - UNIT 2



SECTION E-E

* 3¾" (Pier 3)
3⅛" (Pier 4)

NOTES:

1. See Sheet S-19 for Superstructure Details and Bill of Material.
2. See Sheet S-16 for Section A-A - Typical Deck Cross Section Near Pier.
3. See Sheet S-16 for Section B-B - Typical Deck Cross Section Near Midspan.
4. See Sheet S-17 for Section C-C - Typical Deck Cross Section at Overlooks.
5. See Sheet S-17 for Section D-D - Typical Deck Cross Section Thru Overhangs.
6. See Sheet S-18 for Section F-F - Typical Deck Cross Section at Pavilion.
7. Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet S-22.
8. Place reinforcement to miss Pedestrian Railing anchorage assembly.

REVISION	DATE	BY	REMARKS

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DECK PLAN - UNIT 2
STRUCTURE NO. 052-0082
SHEET NO. S-14 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	117
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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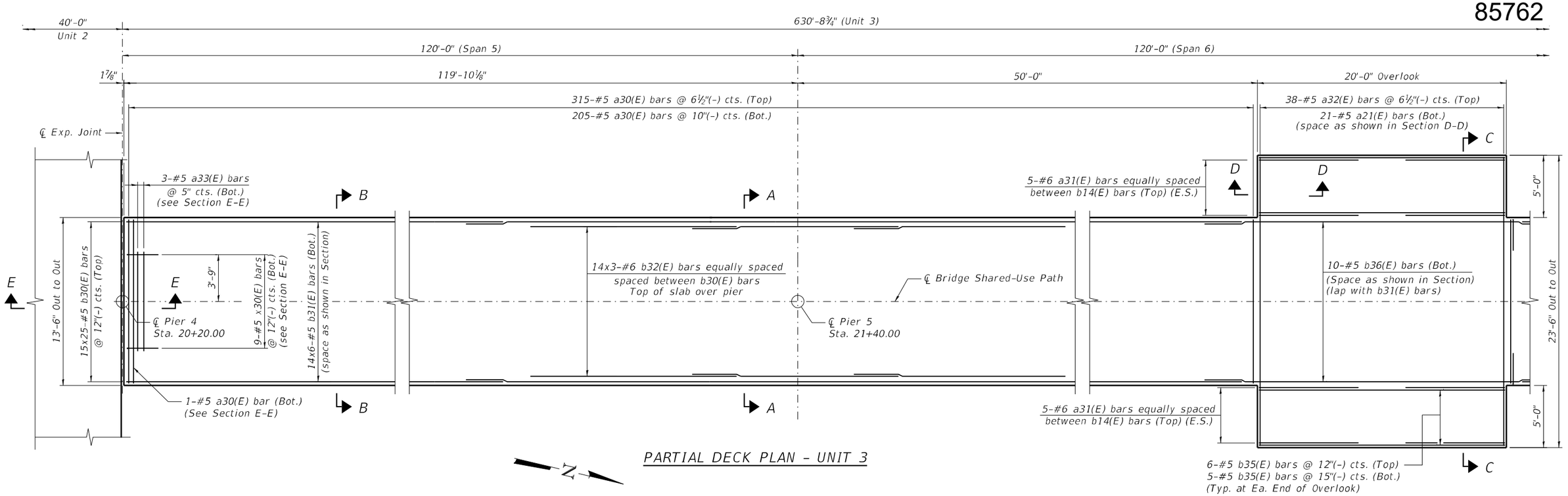
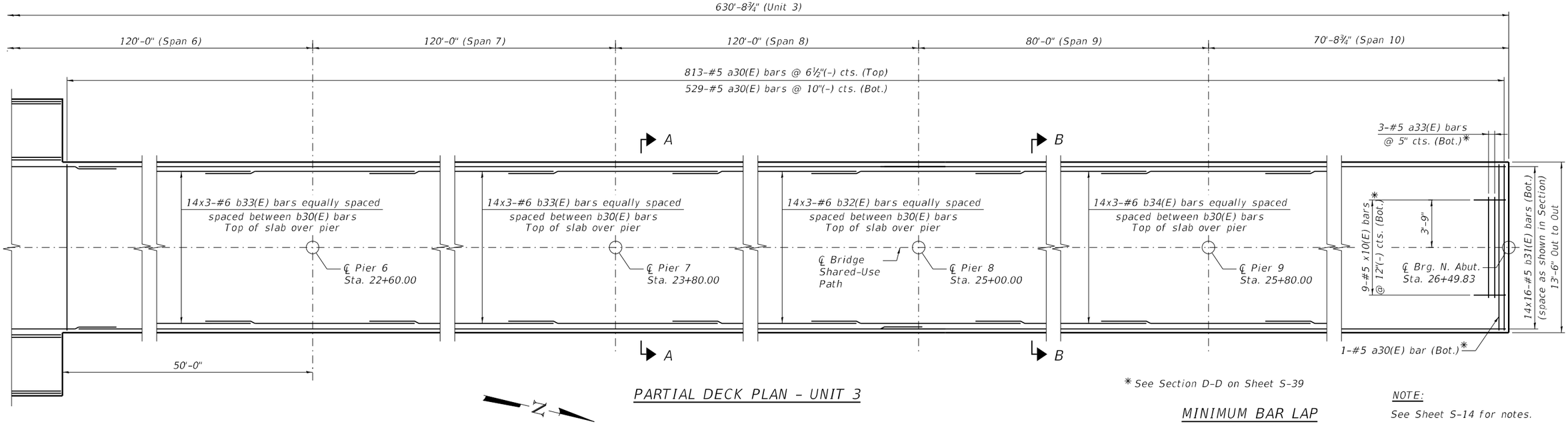


PARTIAL DECK PLAN - UNIT 3



PARTIAL DECK PLAN - UNIT 3

* See Section D-D on Sheet S-39

MINIMUM BAR LAP

#5 = 3'-0"
#6 = 3'-7"

NOTE:

See Sheet S-14 for notes.

REVISION	DATE	BY	REMARKS

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DECK PLAN - UNIT 3
STRUCTURE NO. 052-0082
SHEET NO. S-15 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	118
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			

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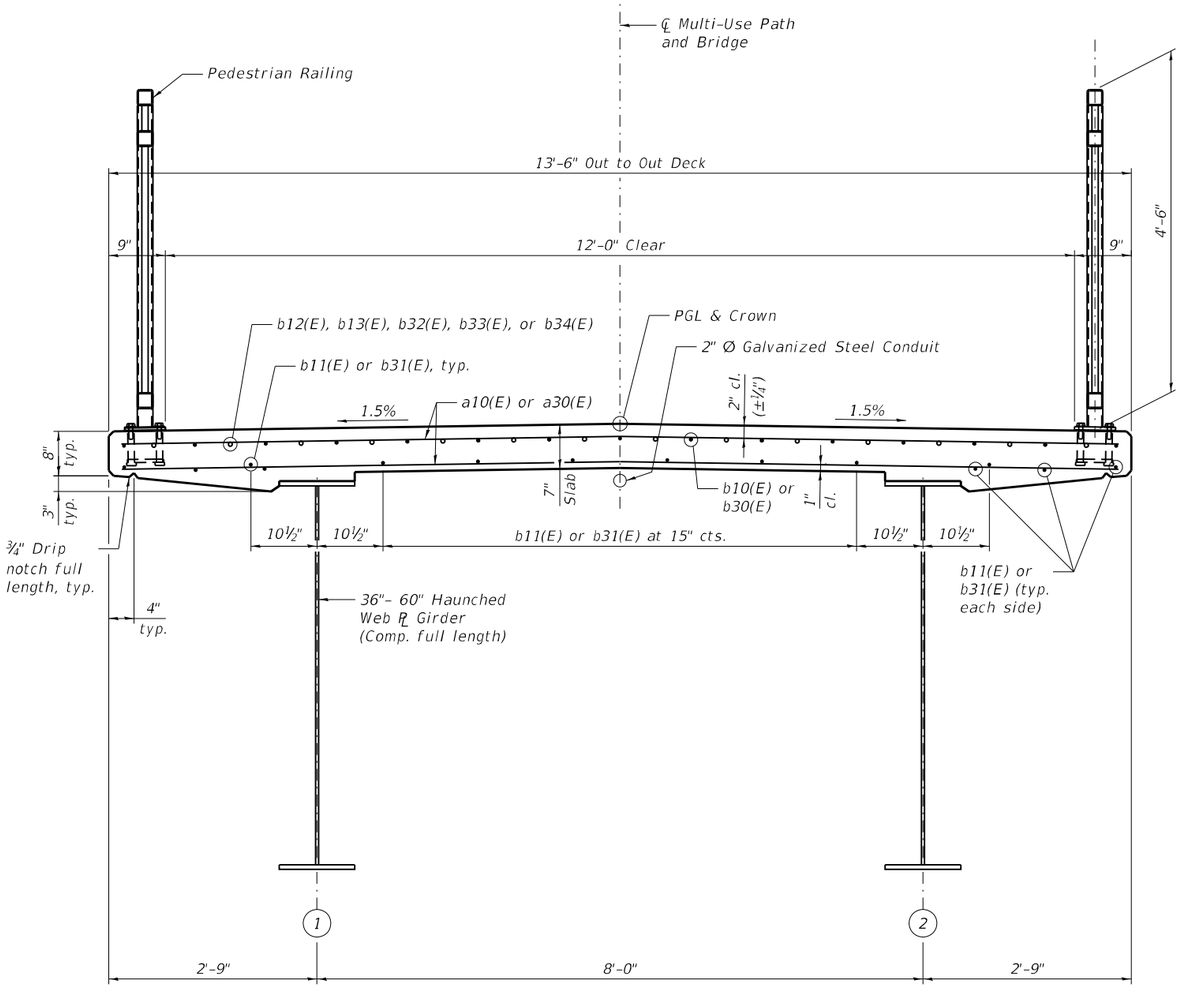
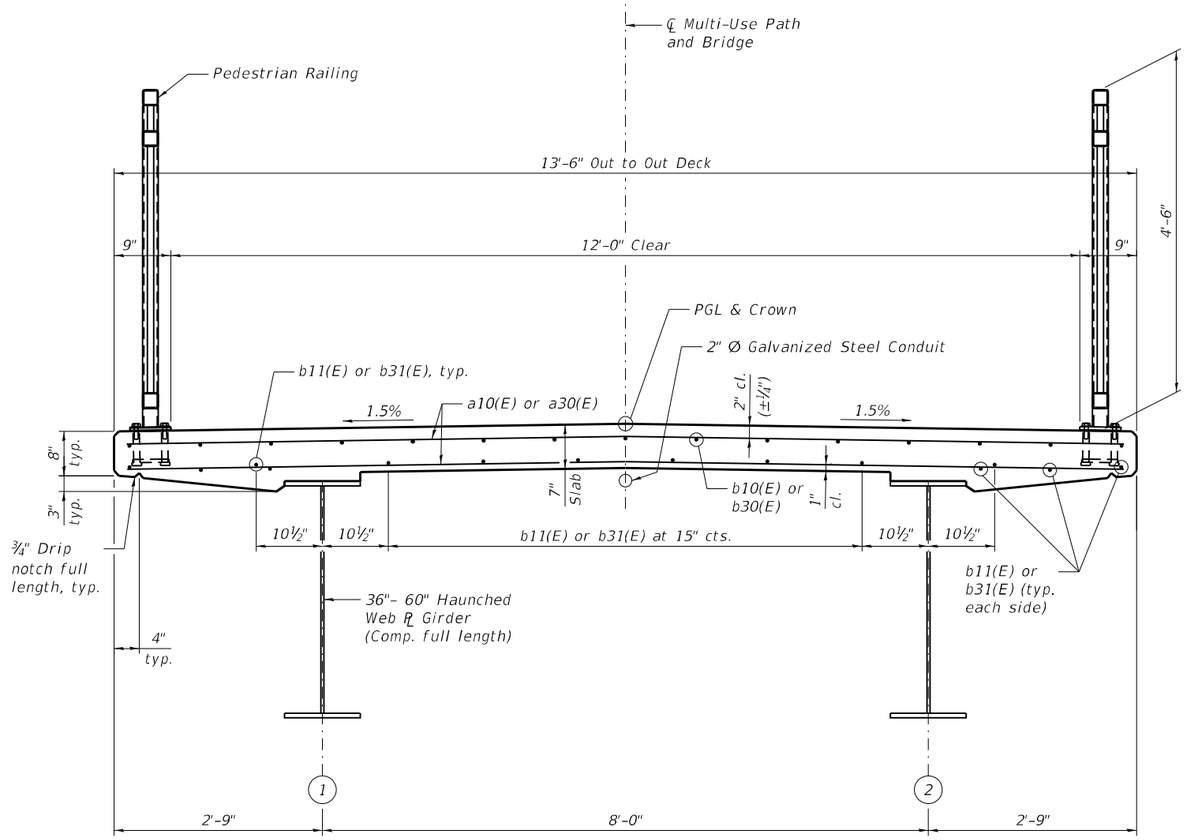


SECTION A-A - TYPICAL DECK CROSS SECTION NEAR PIER



SECTION B-B - TYPICAL DECK CROSS SECTION NEAR MIDSPAN

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CHECKED	SLV

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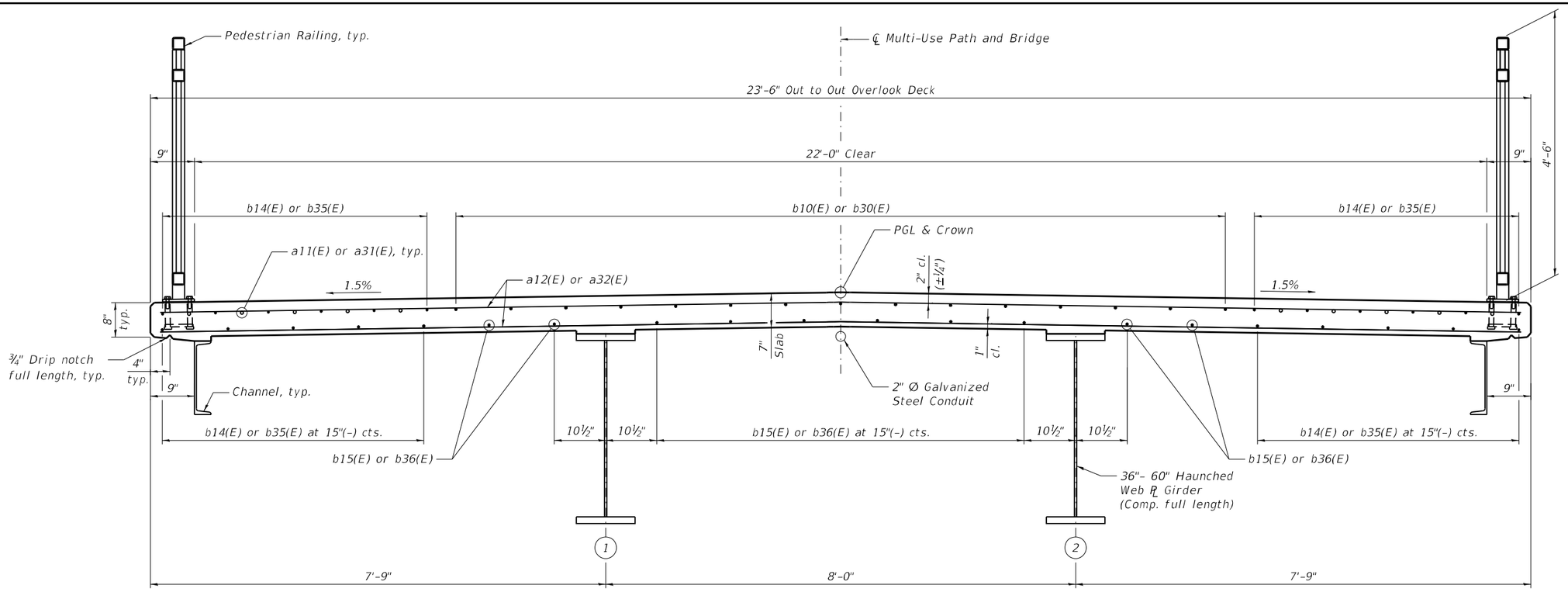
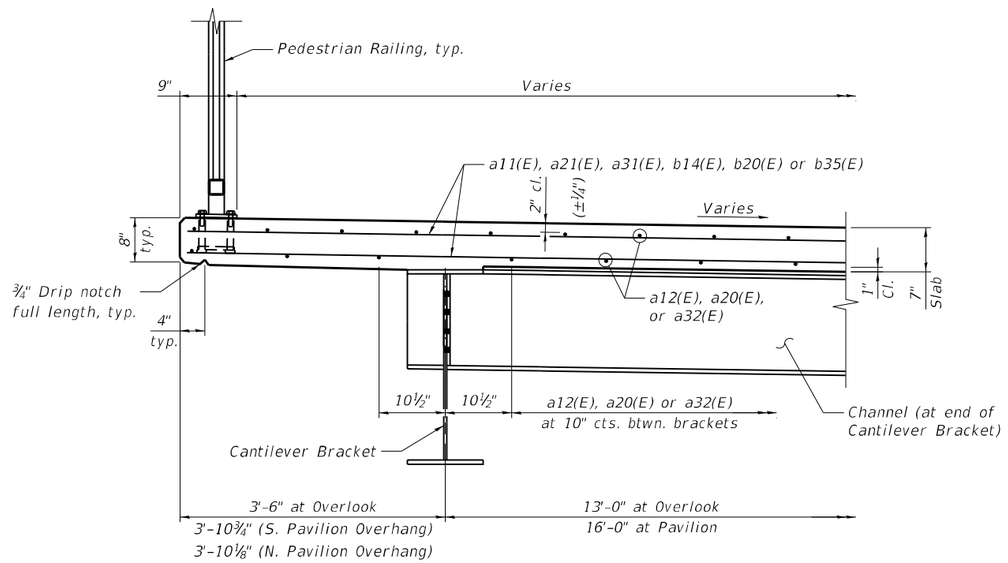
DECK CROSS SECTIONS - TYPICAL
STRUCTURE NO. 052-0082
SHEET NO. S-16 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	119
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

85762



SECTION C-C - DECK CROSS SECTION AT OVERLOOKS



SECTION D-D - DECK CROSS SECTION THRU OVERHANGS

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DECK CROSS SECTIONS - OVERLOOKS
STRUCTURE NO. 052-0082
SHEET NO. S-17 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	120
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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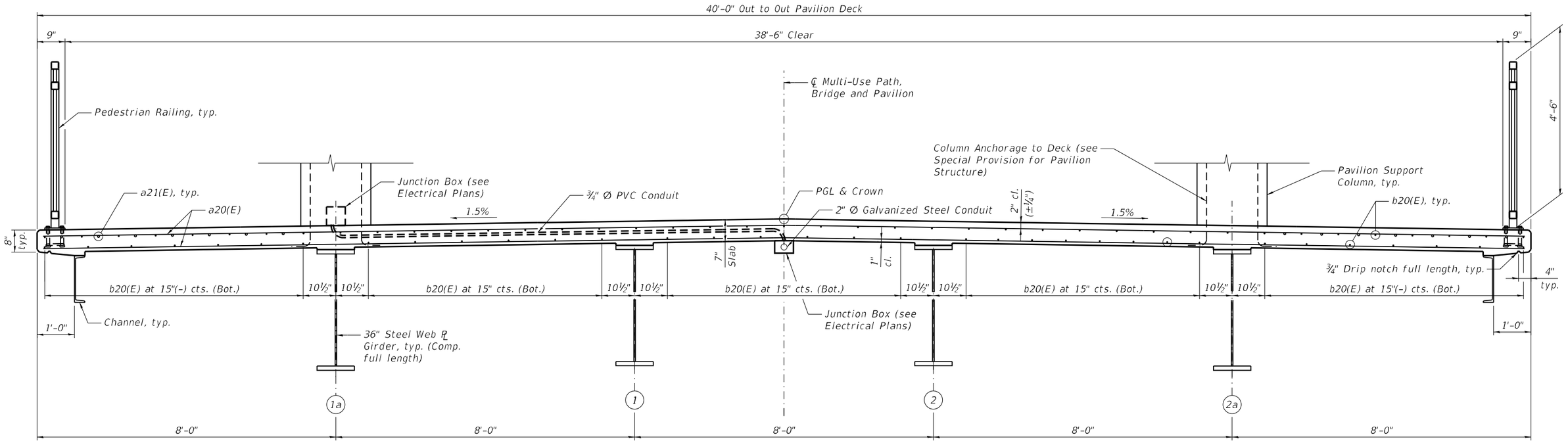

SECTION F-F - DECK CROSS SECTION AT PAVILION

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CHECKED	SLV

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DECK CROSS SECTIONS - PAVILION
STRUCTURE NO. 052-0082

SHEET NO. S-18 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	121
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

UNIT 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	981	#5	13'-3"	
a11(E)	20	#6	8'-0"	
a12(E)	59	#5	23'-3"	
a13(E)	6	#5	7'-9"	
b10(E)	195	#5	28'-11"	
b11(E)	168	#5	30'-10"	
b12(E)	42	#6	26'-6"	
b13(E)	42	#6	31'-6"	
b14(E)	22	#5	19'-9"	
b15(E)	10	#5	26'-4"	
x10(E)	18	#5	5'-11"	
Concrete Superstructure			Cu. Yd.	120.8
Reinforcement Bars, Epoxy Coated			Pound	31,060

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

UNIT 2
BILL OF MATERIAL

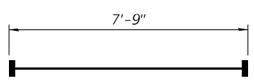
Bar	No.	Size	Length	Shape
a20(E)	119	#5	39'-9"	
a21(E)	28	#6	8'-0"	
a22(E)	18	#5	7'-9"	
b20(E)	73	#5	39'-9"	
x20(E)	50	#5	5'-11"	
Concrete Superstructure			Cu. Yd.	38.6
Reinforcement Bars, Epoxy Coated			Pound	8,760

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

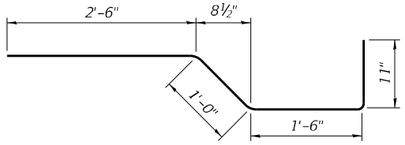
UNIT 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	1864	#5	13'-3"	
a31(E)	20	#6	8'-0"	
a32(E)	59	#5	23'-3"	
a33(E)	6	#5	7'-9"	
b30(E)	375	#5	28'-1"	
b31(E)	308	#5	30'-10"	
b32(E)	84	#6	28'-6"	
b33(E)	84	#6	26'-6"	
b34(E)	42	#6	31'-6"	
b35(E)	22	#5	19'-9"	
b36(E)	10	#5	26'-4"	
x10(E)	18	#5	5'-11"	
Concrete Superstructure			Cu. Yd.	218.7
Reinforcement Bars, Epoxy Coated			Pound	58,140

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.



BARS a14(E), a22(E), and a34(E)
(Headed, 60-#5 Bar Terminators)



BARS x10(E), x20(E), and x30(E)

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REVISION	DATE	BY	REMARKS

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CHECKED	SLV

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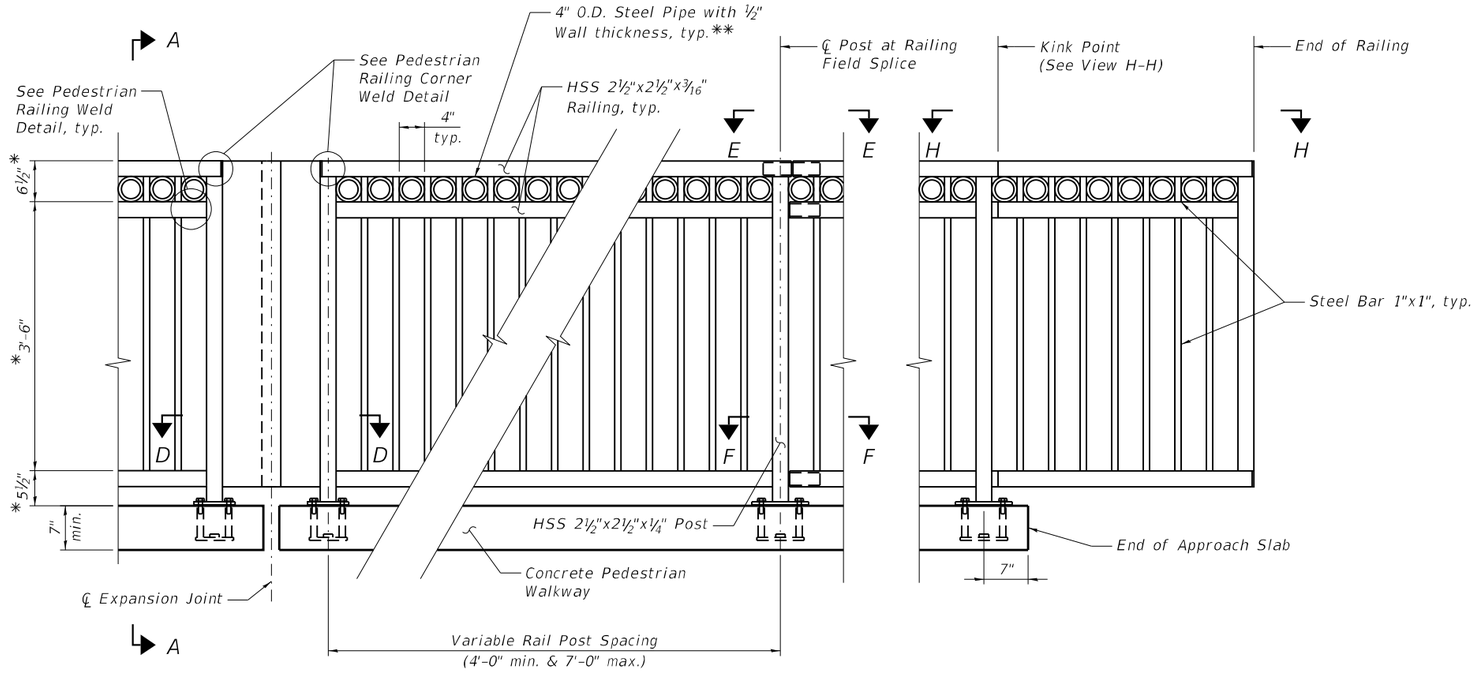
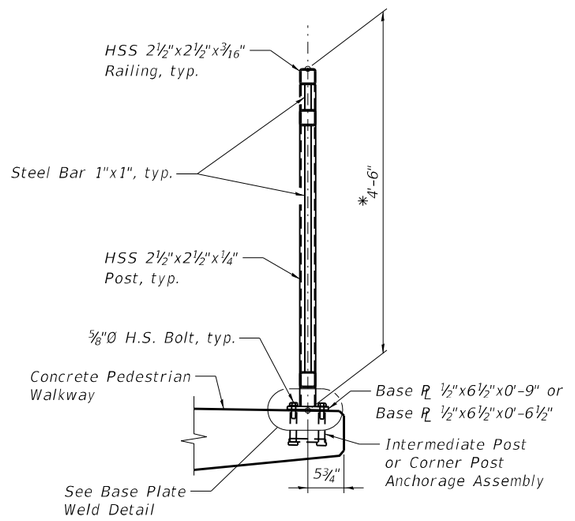
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-19 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	122
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



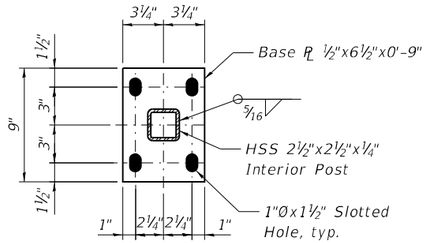
ELEVATION - PEDESTRIAN RAILING



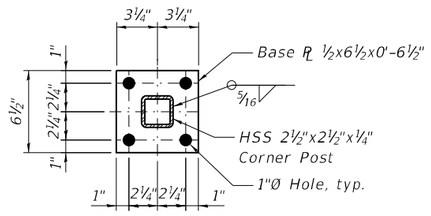
SECTION A-A

*Dimensions measured along ℄ of Post

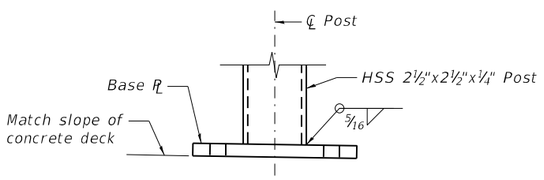
**Omit Steel Pipe adjacent to railing posts when spacing is less than 4"



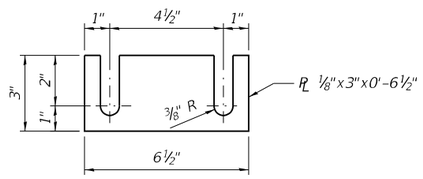
BASE PLATE - INTERMEDIATE POST



BASE PLATE - CORNER POST



BASE PLATE WELD DETAIL



POST SHIM PLATE DETAIL

Shim plates shall be galvanized after shop fabrication according to AASHTO M232.

NOTES:

1. Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Pedestrain Railing.
2. Hollow Structural Steel Tubing shall conform to the requirements of ASTM designation A500, Grade B, Structural Steel Tubing.
3. All other steel shapes and plates shall conform to the requirements of AASHTO M270, Grade 36.
4. Railing shall be fabricated in lengths that include a minimum of 3 posts unless section length is less than 8'-0".
5. Post base plates shall be flat with all surfaces smooth and free from warp, and all edges smooth, straight and vertical.
6. Posts shall be vertical with bottom edge cut to match slope of deck before welding to base plates.
7. Galvanized and painted steel post shims may be used under posts where required for alignment.
8. All posts, railings, splices, anchor devices and plates shall be galvanized according to Article 509.05 and painted according to Article 505.06 of the Standard Specifications.
9. New steel shall receive a 3 coat of paint system. The organic zinc rich primer / epoxy / urethane paint system shall be used for painting of the steel railing except where otherwise noted. The entire system shall be shop applied, with the exception of masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for the steel surfaces shall be dark green, Munsell 7.5G 2/4.
10. For Views B-B, C-C, E-E, H-H, Sections D-D, F-F, G-G, Pedestrian Railing Weld Detail, and Pedestrian Railing Corner Weld Detail see Sheet S-21.

REVISION	DATE	BY	REMARKS

DESIGNED RPC
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CHECKED SLV

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PEDESTRIAN RAILING DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-20 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	123
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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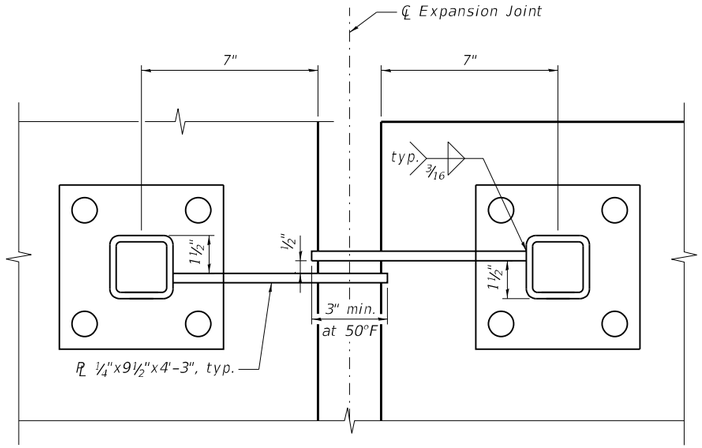
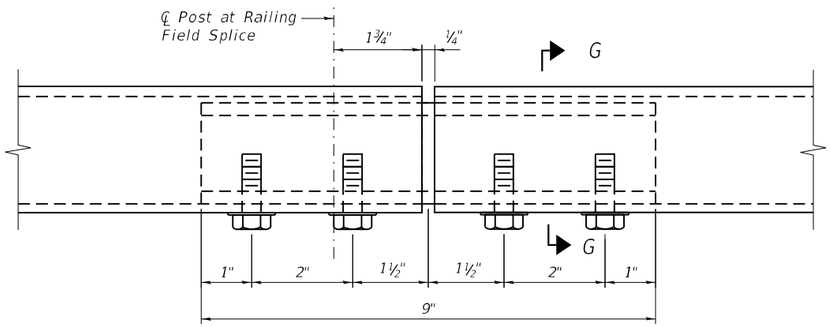
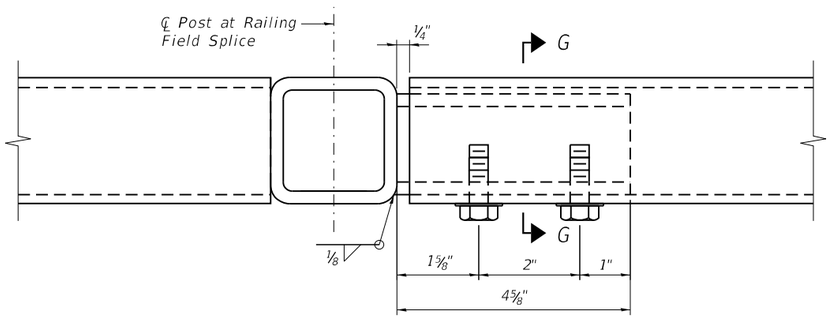


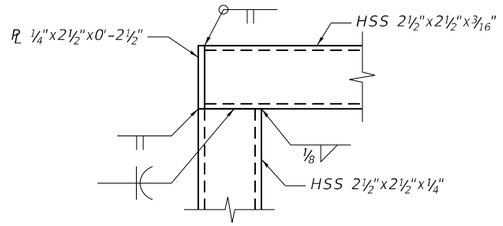
SECTION D-D



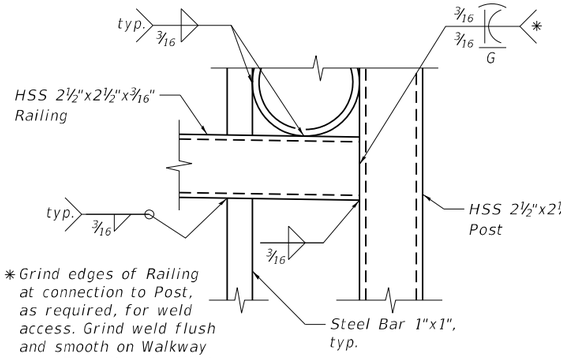
VIEW E-E



SECTION F-F

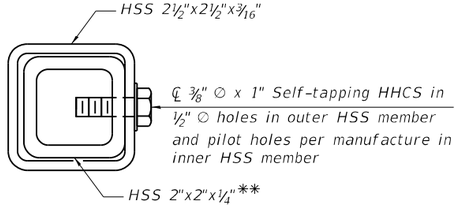


PEDESTRIAN RAILING CORNER WELD DETAIL



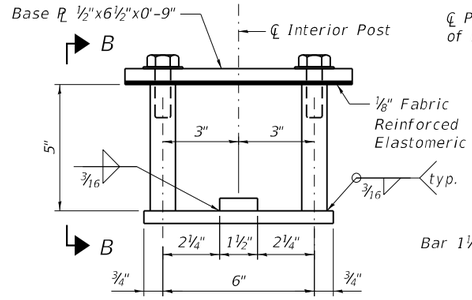
*Grind edges of Railing at connection to Post, as required, for weld access. Grind weld flush and smooth on Walkway side. Transition to fillet welds without interrupting weld.

PEDESTRIAN RAILING WELD DETAIL

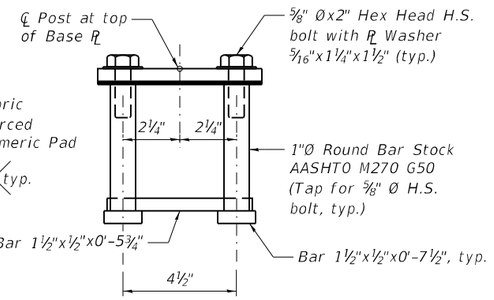


SECTION G-G

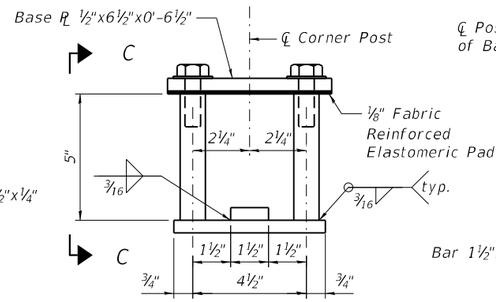
** The splice design is based on nominal dimensions. The fabricator shall suggest an alternative splice detail if fitment is of concern. If alternative member is used, fabricator/contractor shall submit shop drawings.



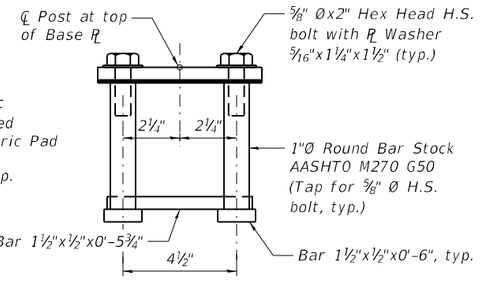
INTERMEDIATE POST ANCHORAGE ASSEMBLY



VIEW B-B



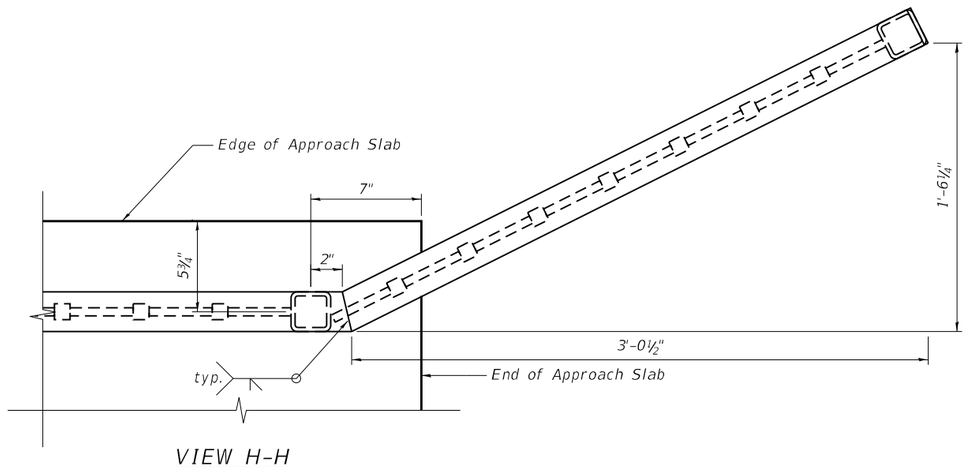
CORNER POST ANCHORAGE ASSEMBLY



VIEW C-C

NOTE:

In lieu of the cast-in-place anchor devices shown, the Contractor has the option of drilling and setting ⅝" 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. An embedment depth of 5½" shall be used. The adhesive used shall have a bond strength of Hilti HY200 or better.



VIEW H-H

c:\pwworkr\benesch projects\projects\d0171931\HANDRAILING DETAILS (2 OF 2).dgn
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7/22/2024

REVISION	DATE	BY	REMARKS

DESIGNED	RPC
CHECKED	SLV
DRAWN	RPC
CHECKED	SLV

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Chicago, Illinois 60601
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RIVER CROSSING SHARED-USE PATH
2024

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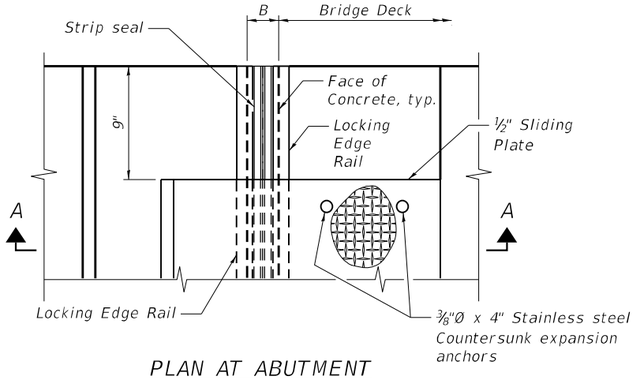
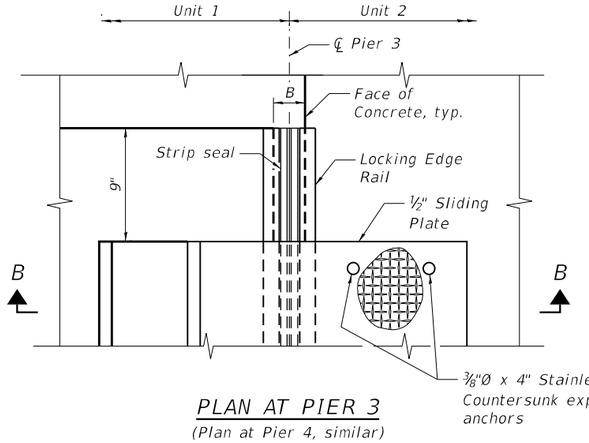
PEDESTRIAN RAILING DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-21 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	124
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		



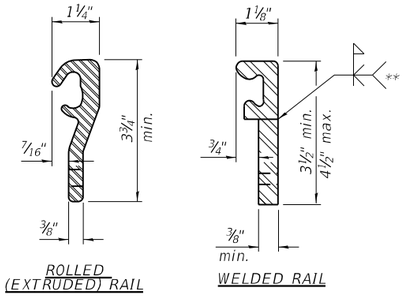
PLAN AT ABUTMENT

(S. Abut. shown, N. Abut. Opp. Hand)

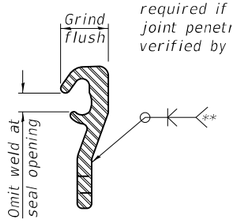


PLAN AT PIER 3

(Plan at Pier 4, similar)



LOCKING EDGE RAILS



** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 5 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

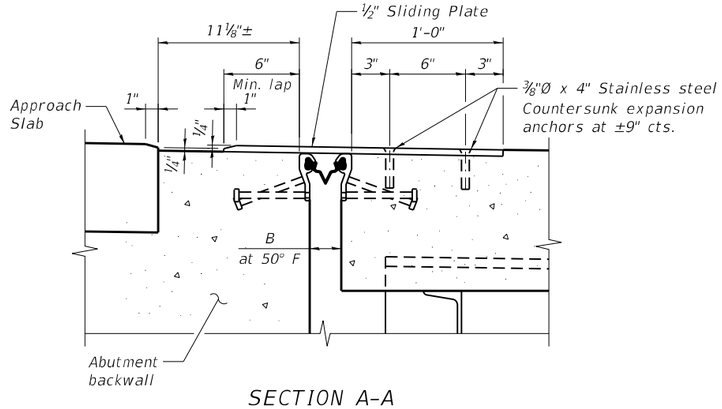
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

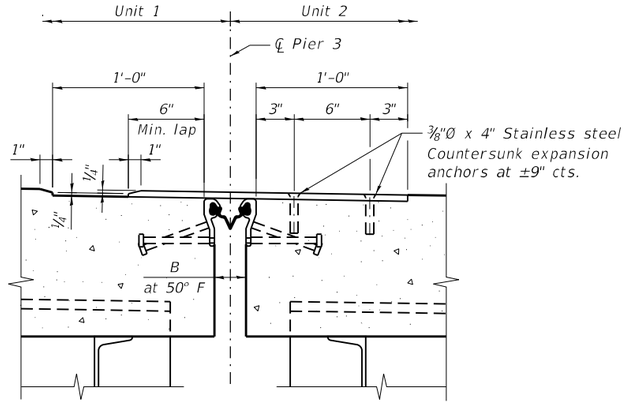
The top surface of sliding plates shall have a raised pattern according to ASTM A786.

Cost of sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

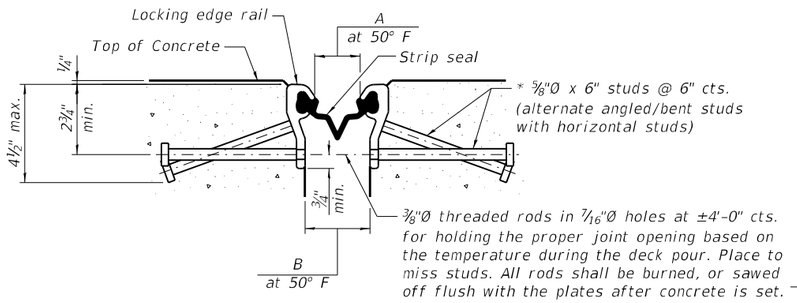
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required.



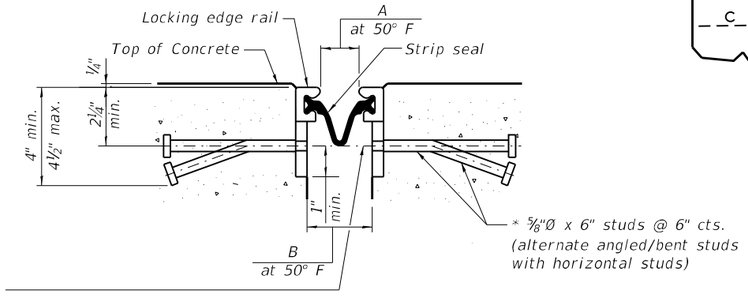
SECTION A-A



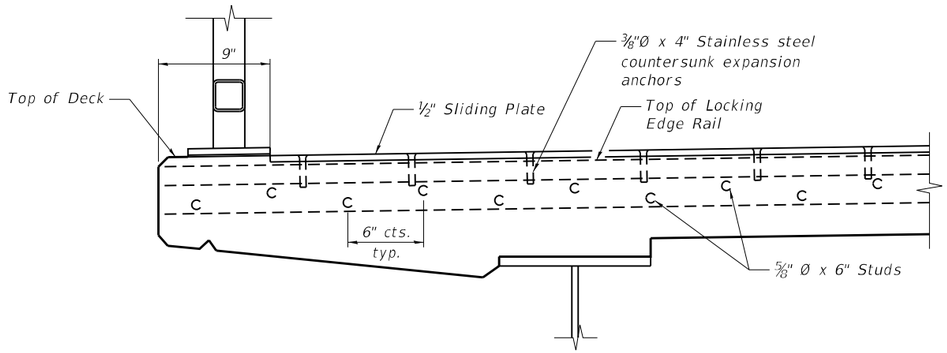
SECTION B-B



SHOWING ROLLED RAIL JOINT



SHOWING WELDED RAIL JOINT



SECTION AT EDGE OF DECK

STRIP SEAL ASSEMBLY

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

JOINT DIMENSION TABLE

ITEM	S. ABUT.	PIER 3	PIER 4	N. ABUT.
A	2"	1⅜"	2⅞"	2⅜"
B	2⅞"	2½"	3¾"	3¼"

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	54

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED SLV
DRAWN RMG
CHECKED SLV

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PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 052-0082
SHEET NO. S-22 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	125
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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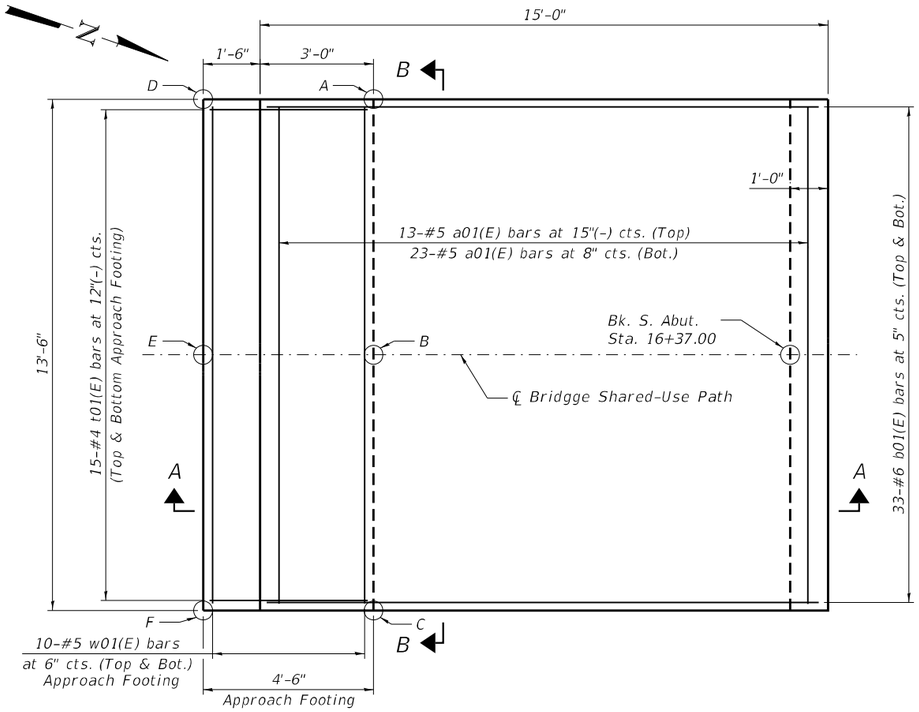
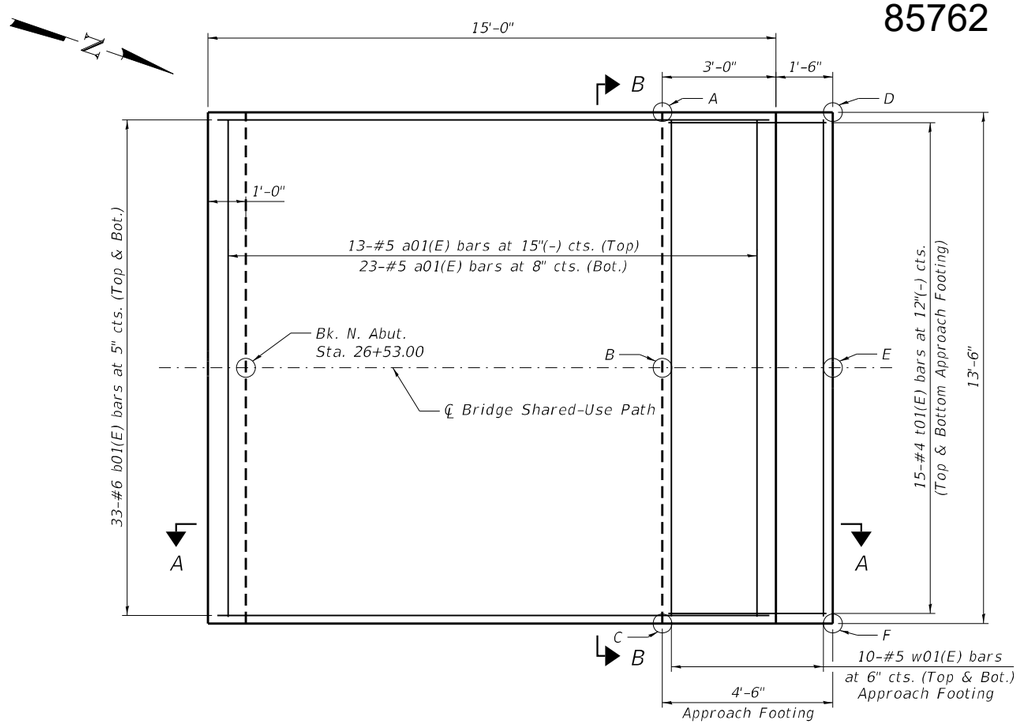
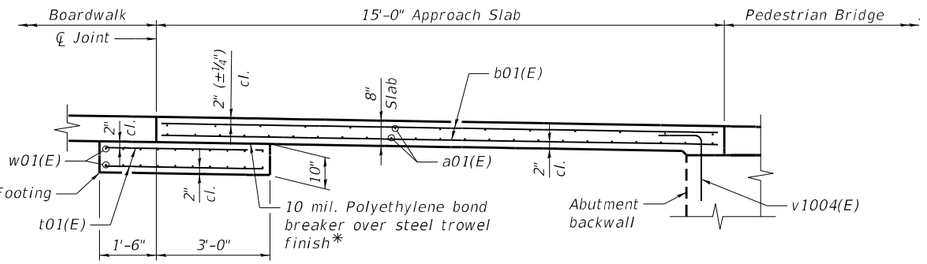


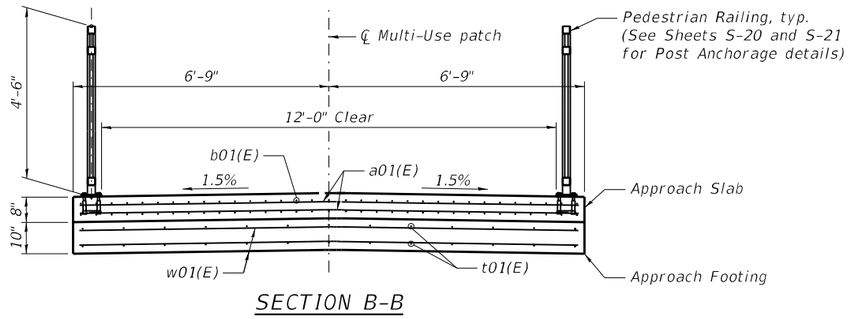
PLAN - SOUTH APPROACH



PLAN - NORTH APPROACH



SECTION A-A



SECTION B-B

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

SOUTH APPROACH			NORTH APPROACH		
Location	Top	Bottom	Location	Top	Bottom
A	679.26	678.43	A	668.15	667.32
B	679.36	678.53	B	668.25	667.42
C	679.26	678.43	C	668.15	667.32
D	679.33	678.50	D	668.15	667.32
E	679.43	678.60	E	668.25	667.42
F	679.33	678.50	F	668.15	667.32

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a01(E)	72	#5	13'-2"	——
b01(E)	132	#6	14'-9"	——
t01(E)	60	#4	4'-3"	——
w01(E)	40	#5	13'-3"	——
Concrete Superstructure (Approach Slab)		Cu. Yd.	10.0	
Concrete Structures		Cu. Yd.	3.8	
Reinforcement Bars, Epoxy Coated		Pound	4,640	

NOTES:

1. See Sheet S-39 for v1004(E) bar details.
2. Approach Slab shall be paid for as Concrete Superstructure (Approach Slab).
3. Approach footing concrete shall be paid for as Concrete Structures.
4. The Approach Slab footing maximum applied service bearing pressure is (Q_{max}) = 0.50 ksf.
5. Cost of excavation for approach footing included with Concrete Structures.
6. Place reinforcement to miss Pedestrian Railing anchorage assembly.

* Cost included with Concrete Superstructure (Approach Slab)

REVISION	DATE	BY	REMARKS

DESIGNED AED
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DRAWN RMG
CHECKED SLV

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APPROACH SLAB DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-23 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	126
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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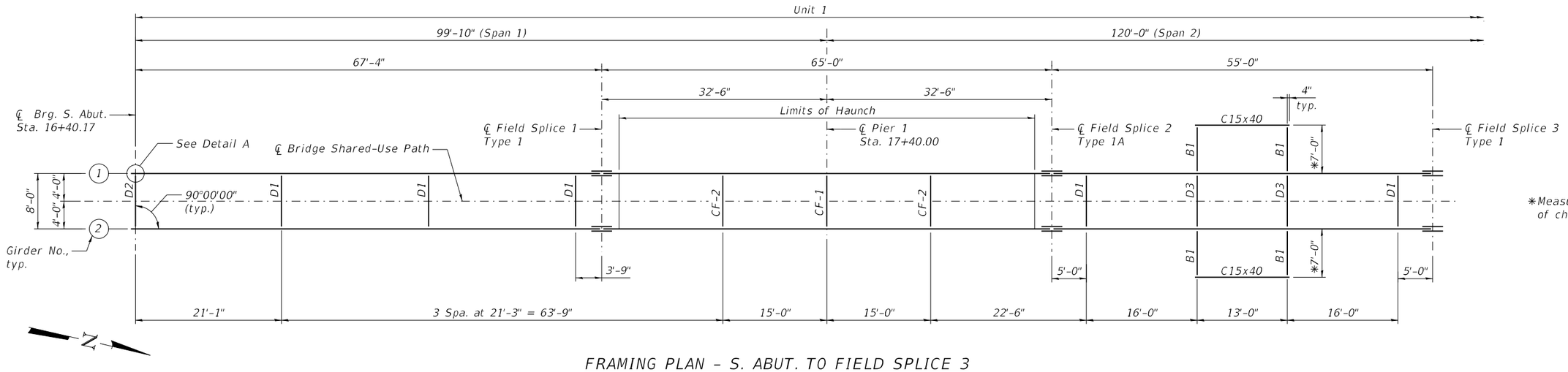
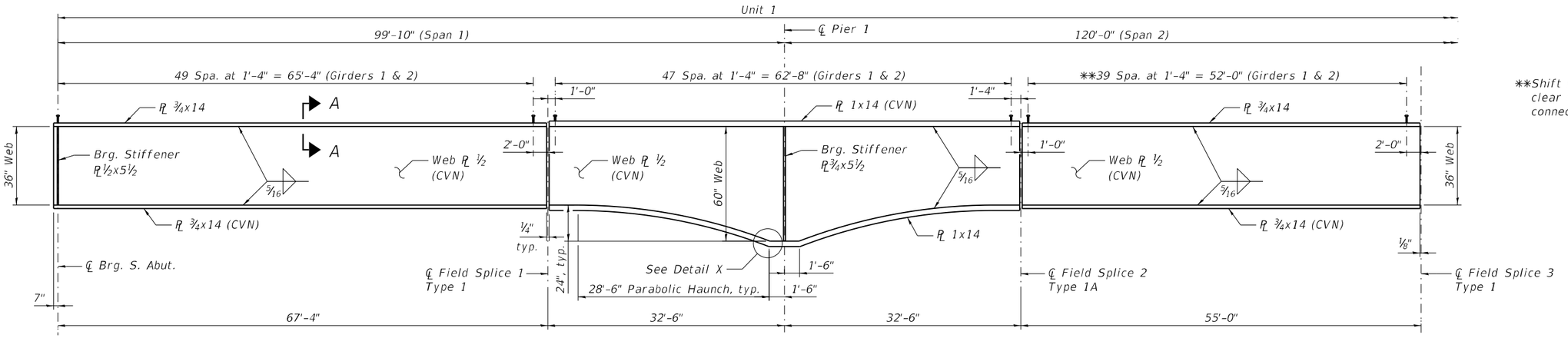


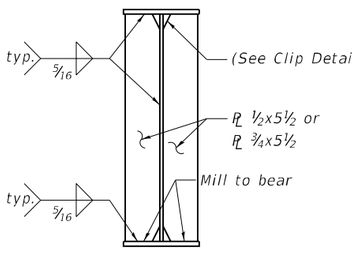
*Measured to back of channel.

FRAMING PLAN – S. ABUT. TO FIELD SPLICE 3

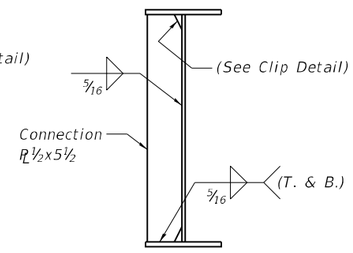


**Shift studs as needed to clear cantilever bracket connection plates.

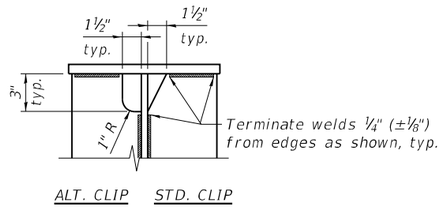
GIRDER ELEVATION – S. ABUT. TO FIELD SPLICE 3



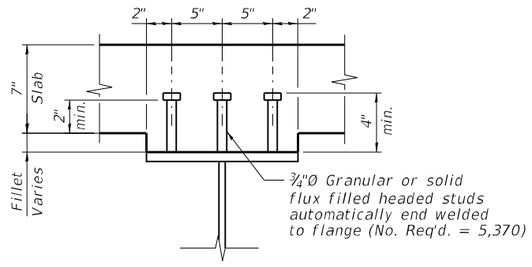
BEARING STIFFENERS
(Typical at Piers and Abutments)



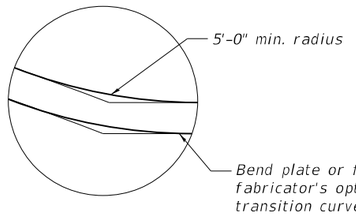
CONNECTION PLATE



WELD LIMITS AND CLIP DETAILS



SECTION A–A



DETAIL X

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
4. See Sheet S-30 for Detail A.
5. See Sheet S-32 for field splice details.

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REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	KMP
DRAWN	RMG
CHECKED	KMP

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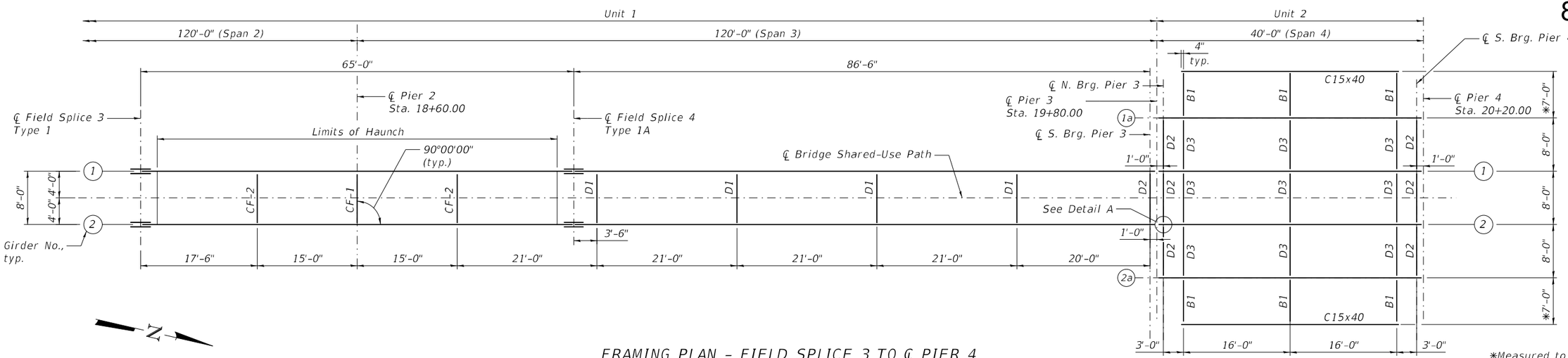
FRAMING PLAN AND GIRDER ELEVATION (1 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-24 OF S-50 SHEETS

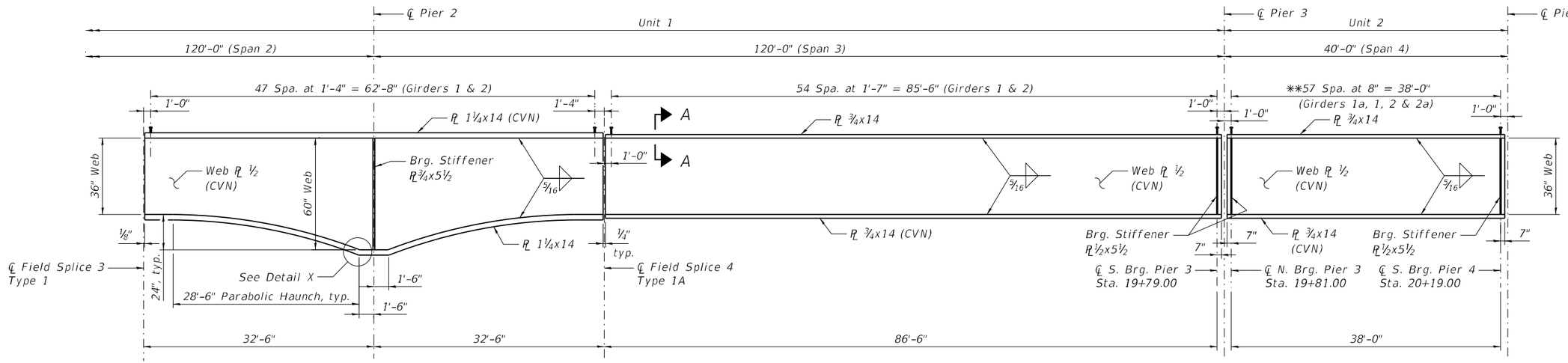
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	127
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			

85762



*Measured to back of channel.

FRAMING PLAN - FIELD SPLICE 3 TO ℄ PIER 4



**Shift studs as needed to clear cantilever bracket connection plates.

GIRDER ELEVATION - FIELD SPLICE 3 TO ℄ PIER 4

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts
4. See Sheet S-24 for Section A-A and Detail X.
5. See Sheet S-30 for Detail A.
6. See Sheet S-32 for field splice details.

REVISION	DATE	BY	REMARKS

DESIGNED AED/MCB
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

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RIVER CROSSING SHARED-USE PATH
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FRAMING PLAN AND GIRDER ELEVATION (2 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-25 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	128
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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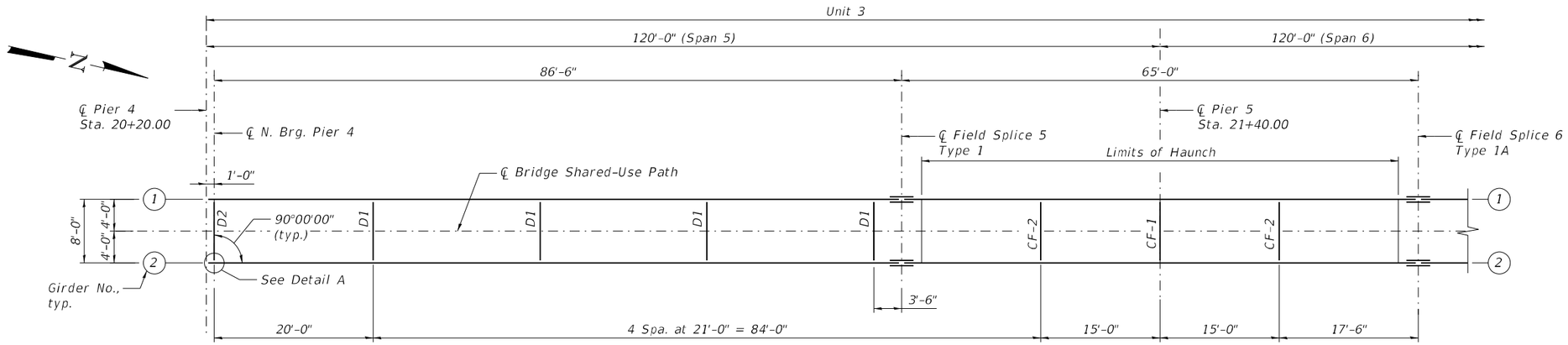
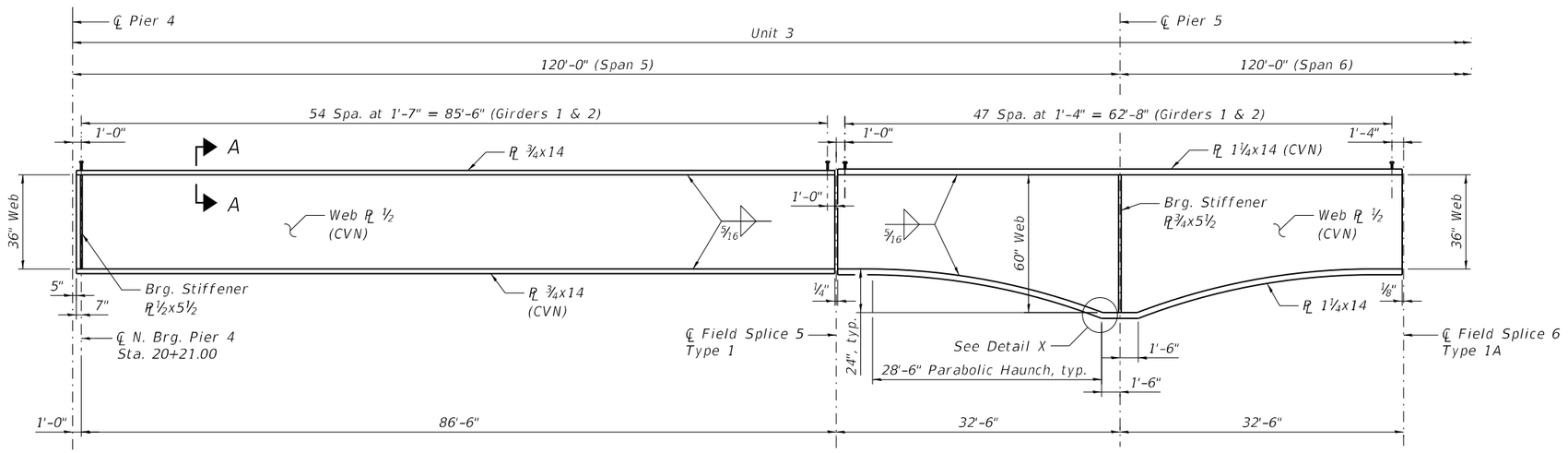


FRAMING PLAN - ℄ PIER 4 TO FIELD SPLICE 6



GIRDER ELEVATION - ℄ PIER 4 TO FIELD SPLICE 6

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts
4. See Sheet S-24 for Section A-A and Detail X.
5. See Sheet S-30 for Detail A.
6. See Sheet S-32 for field splice details.

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REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	KMP
DRAWN	RMG
CHECKED	KMP

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2024

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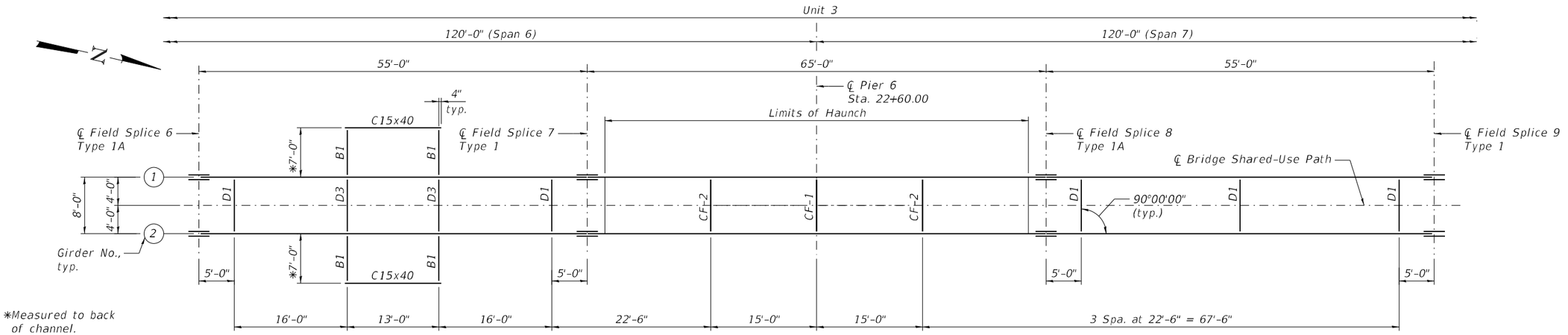
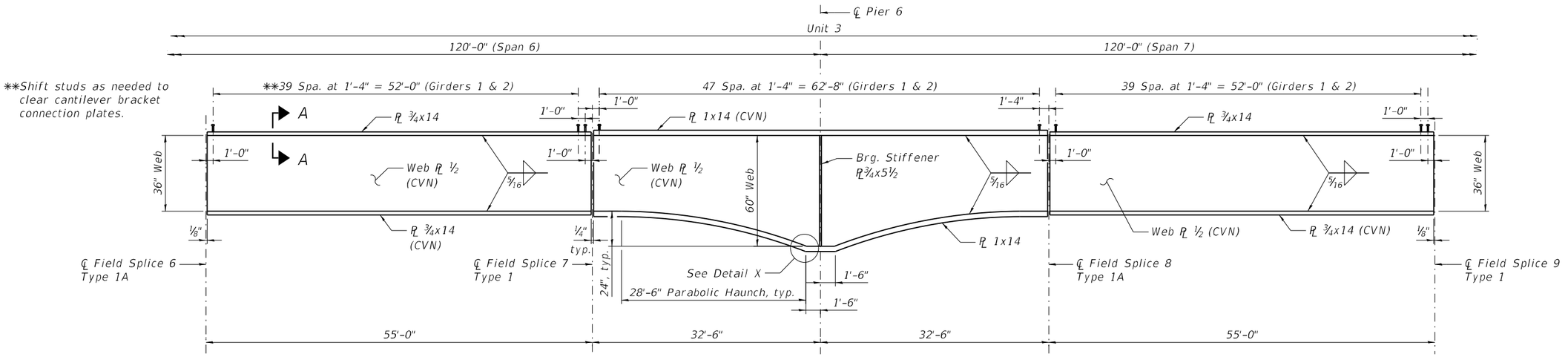
FRAMING PLAN AND GIRDER ELEVATION (3 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-26 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	129
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			



FRAMING PLAN - FIELD SPLICE 6 TO FIELD SPLICE 9



GIRDER ELEVATION - FIELD SPLICE 6 TO FIELD SPLICE 9

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
4. See Sheet S-24 for Section A-A and Detail X.
5. See Sheet S-32 for field splice details.

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	KMP
DRAWN	RMG
CHECKED	KMP

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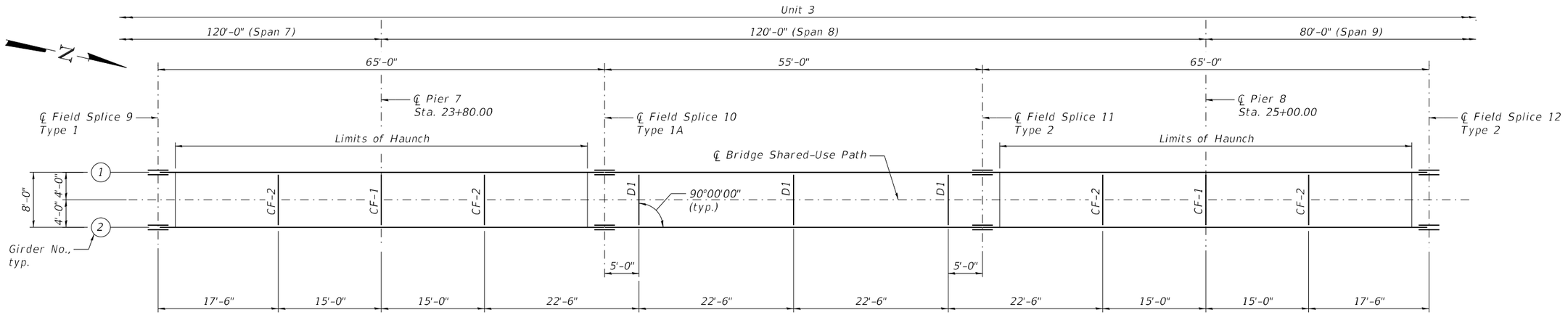
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

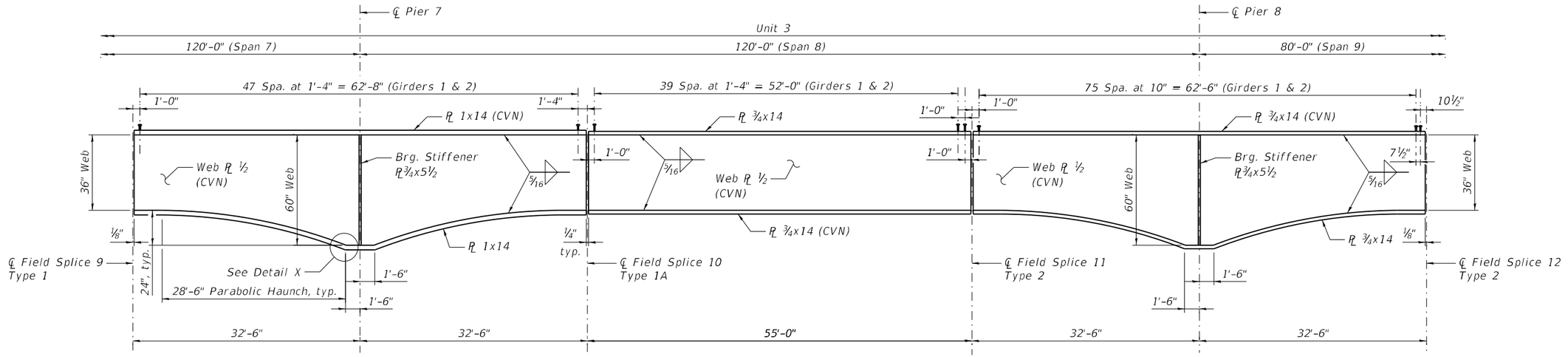
DIXON Here to Serve

FRAMING PLAN AND GIRDER ELEVATION (4 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-27 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	130
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



FRAMING PLAN – FIELD SPLICE 9 TO FIELD SPLICE 12



GIRDER ELEVATION – FIELD SPLICE 9 TO FIELD SPLICE 12

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
4. See Sheet S-24 for Section A-A and Detail X.
5. See Sheet S-32 for field splice details.

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP
DRAWN RMG
CHECKED KMP

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Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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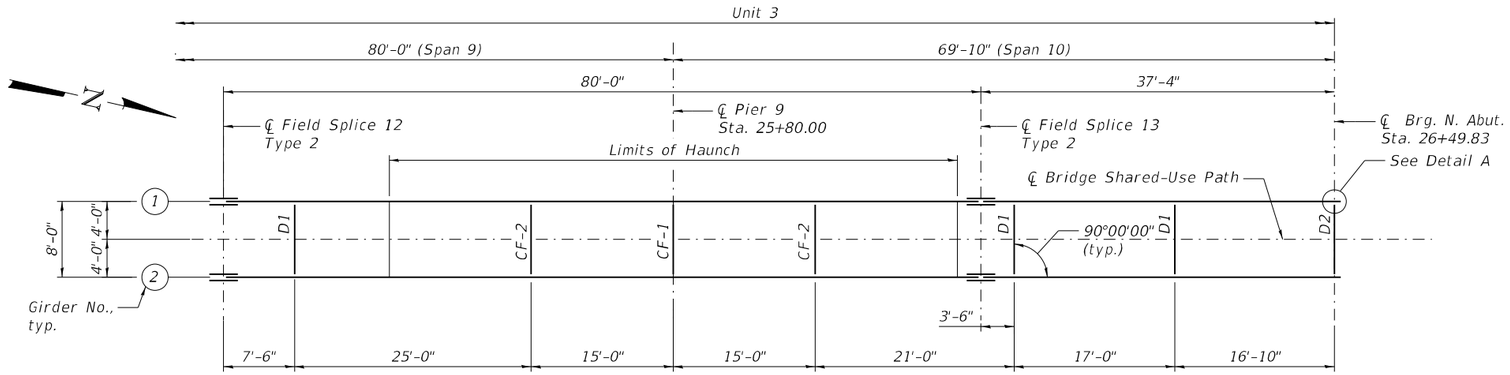
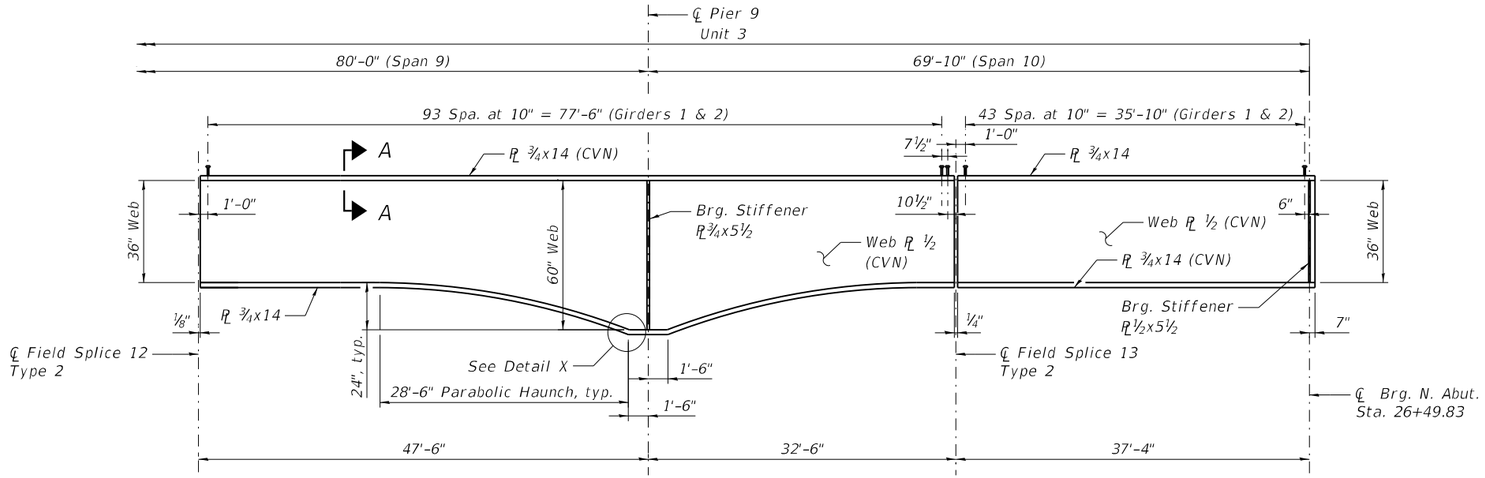
FRAMING PLAN AND GIRDER ELEVATION (5 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-28 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	131
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



FRAMING PLAN - FIELD SPLICE 12 TO N. ABUT.



GIRDER ELEVATION - FIELD SPLICE 12 TO N. ABUT.

NOTES:

1. All steel on this sheet shall be AASHTO M270, Grade 50.
2. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
3. All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames and diaphragms at supports may be temporarily disconnected to install bearing anchor bolts
4. See Sheet S-24 for Section A-A and Detail X.
5. See Sheet S-30 for Detail A.
6. See Sheet S-32 for field splice details.

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP
DRAWN RMG
CHECKED KMP

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Chicago, Illinois 60601
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RIVER CROSSING SHARED-USE PATH
2024

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FRAMING PLAN AND GIRDER ELEVATION (6 OF 6)
STRUCTURE NO. 052-0082
SHEET NO. S-29 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	132
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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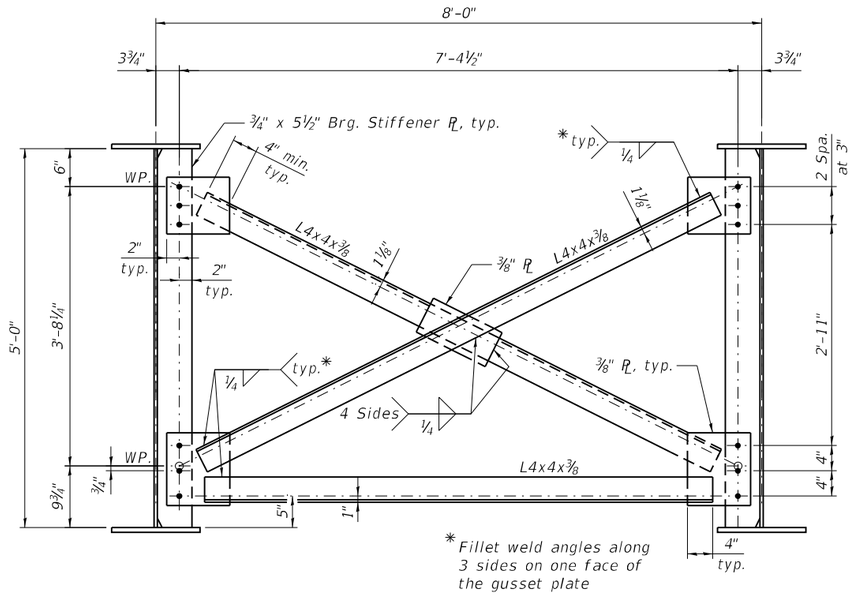
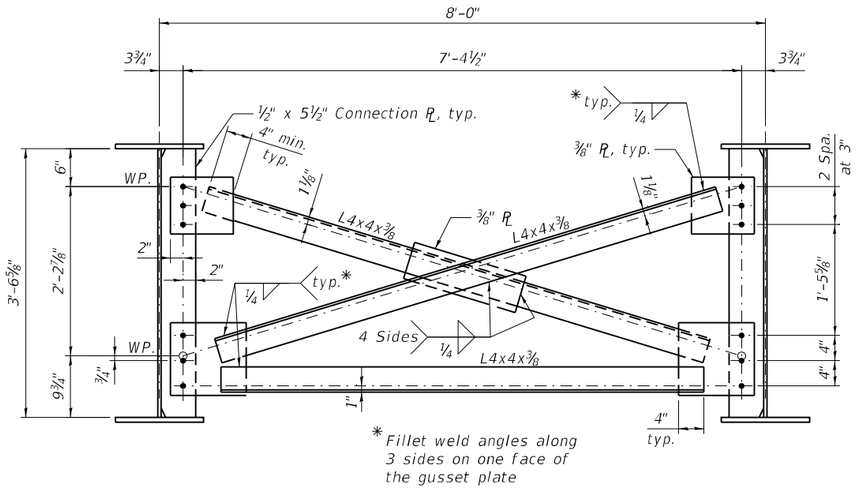


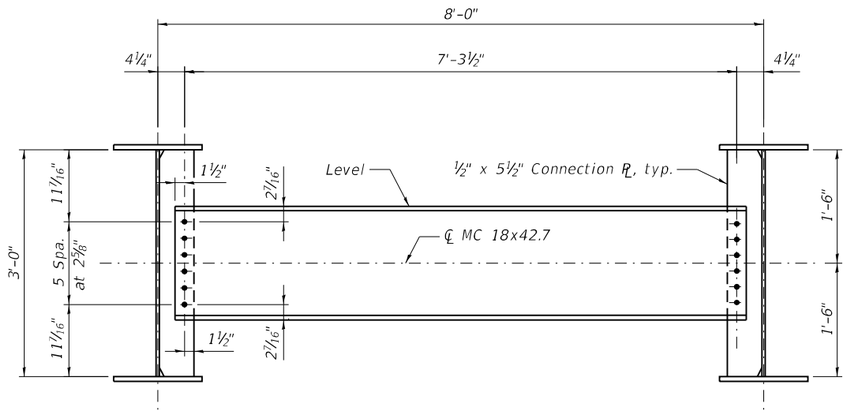
* Fillet weld angles along 3 sides on one face of the gusset plate

INTERMEDIATE CROSS-FRAME CF-1 AT CENTERLINE OF PIER

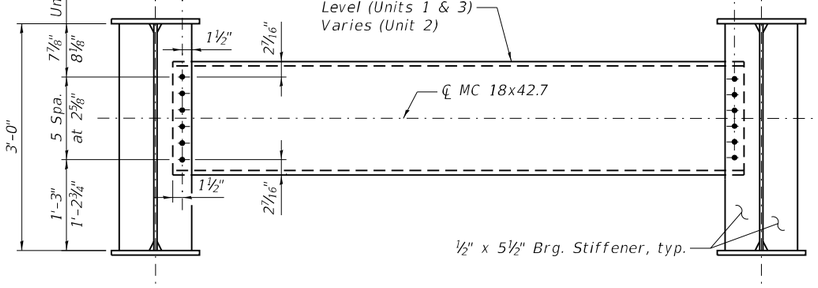


* Fillet weld angles along 3 sides on one face of the gusset plate

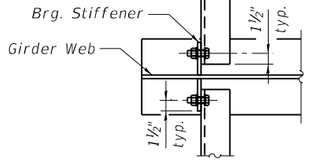
INTERMEDIATE CROSS-FRAME CF-2



INTERIOR DIAPHRAGM D1



END DIAPHRAGM D2



DETAIL A

NOTES:

1. See Framing Plans for location of Girder cross frames and diaphragms.
2. AASHTO M270 Grade 50 steel shall be used for all cross frames, diaphragms, connections plates and bearing stiffeners, unless otherwise noted.
3. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
4. Fasteners shall be ASTM F 3125 Grade A325 Type I, mechanically galvanized bolts. Bolts shall be ⅞" Ø, in holes 15/16" Ø, unless otherwise noted.
5. All cross frames and diaphragms between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
6. All cross frames and diaphragms shall be oriented, at all locations, perpendicular to the girders.

c:\pwwordir\benesch projects\projects\d0171931\CROSS FRAME & DIAPHRAGM DETAILS.dgn
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REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP
DRAWN RMG
CHECKED KMP

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Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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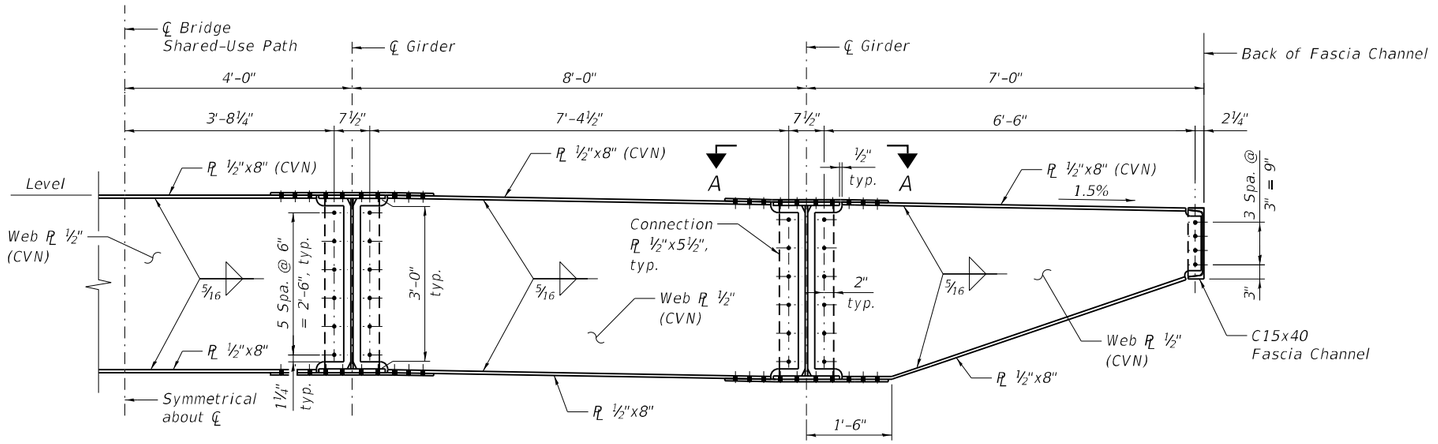
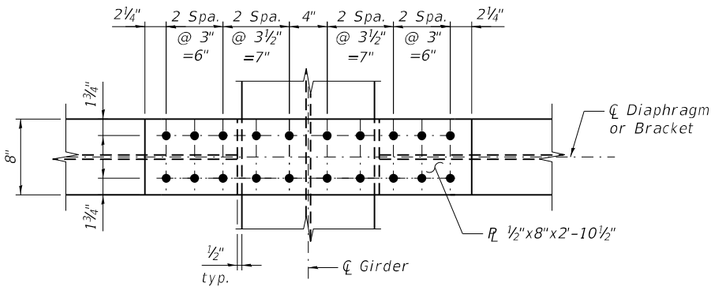
STEEL DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-30 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	133
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



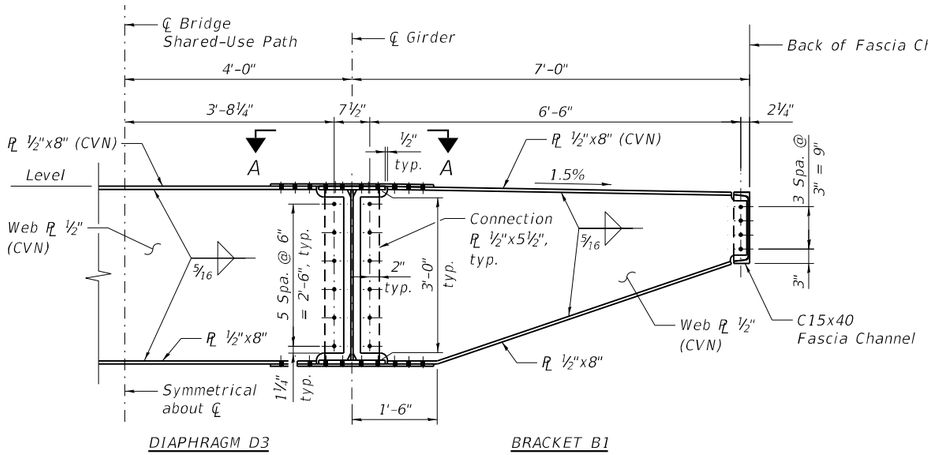
DIAPHRAGM D3 DIAPHRAGM D3 BRACKET B1

PARTIAL SECTION AT PAVILION



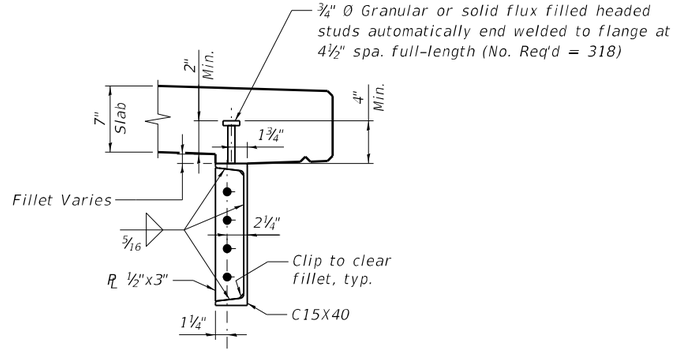
VIEW A-A

(top flange shown, bottom flange similar)



DIAPHRAGM D3 BRACKET B1

PARTIAL SECTION AT OVERLOOK



FASCIA CHANNEL DETAIL

NOTES:

1. See Framing Plans for location of diaphragms and brackets.
2. All steel on this sheet shall be AASHTO M270, Grade 50.
3. Load carrying components designated "CVN" shall conform to the Impact Testing Requirements, Zone 2.
4. All brackets and diaphragms shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer.
5. Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts. Bolts shall be ⅞" Ø, in 15/16" Ø holes unless otherwise noted.

REVISION	DATE	BY	REMARKS

DESIGNED MCB
CHECKED MFH
DRAWN RMG
CHECKED MFH

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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STEEL DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-31 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	134
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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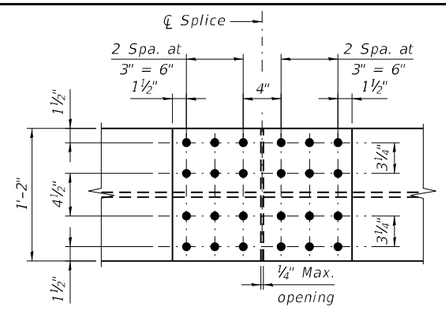
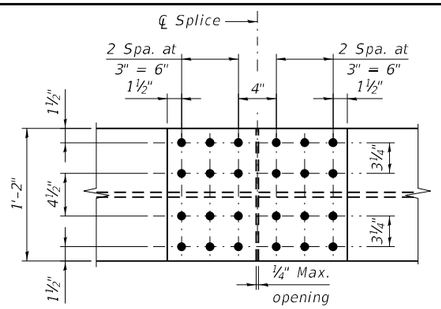
SPLICE TABLE

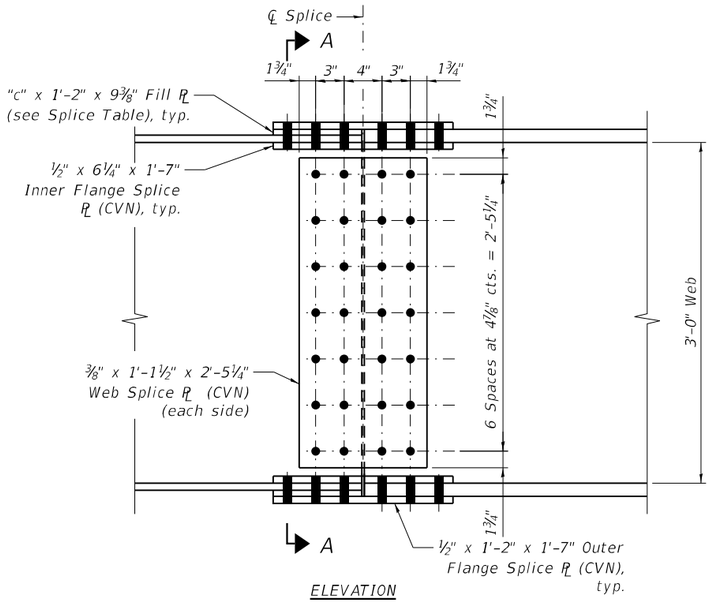
SPLICE NO.	TYPE	FLANGE FILL PL "c"
1	1	¼"
2	1A	¼"
3	1	½"
4	1A	½"
5	1	½"
6	1A	½"
7	1	¼"
8	1A	¼"
9	1	¼"
10	1A	¼"
11	2	—
12	2	—
13	2	—



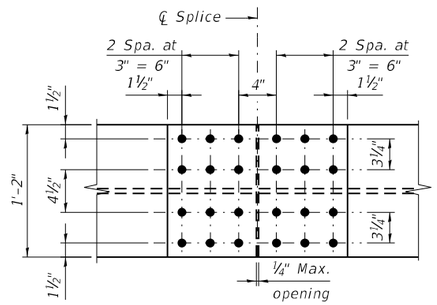
TOP FLANGE SPLICE PLATE



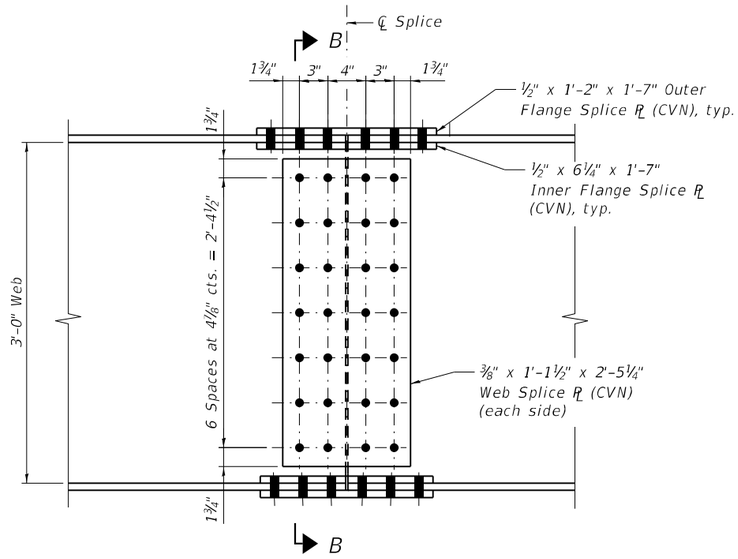
TOP FLANGE SPLICE PLATE



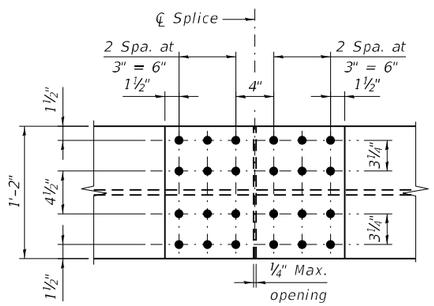
ELEVATION



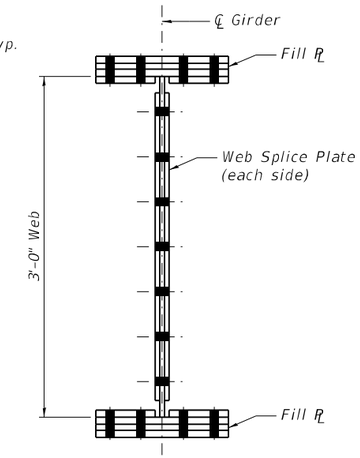
BOTTOM FLANGE SPLICE PLATE



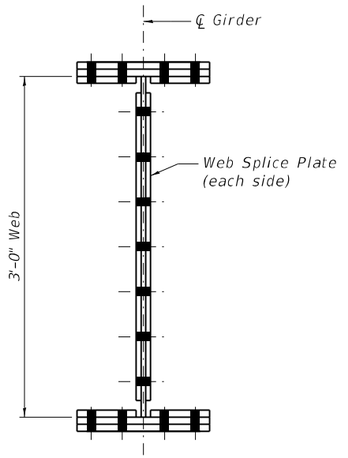
ELEVATION



BOTTOM FLANGE SPLICE PLATE



SECTION A-A
(Types 1 & 1A)



SECTION B-B
(Type 2)

FIELD SPLICE DETAIL – TYPE 1
FIELD SPLICE DETAIL – TYPE 1A (OPPOSITE HAND)

FIELD SPLICE DETAIL – TYPE 2

NOTES:

1. See Framing Plans for location of Splices.
2. AASHTO M270 Grade 50 steel shall be used for all splice plate material, unless othewise noted.
3. Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts. Bolts shall be ⅞" Ø, in holes 15/16" Ø, unless otherwise noted.
4. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.

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REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	KMP
DRAWN	RMG
CHECKED	KMP

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Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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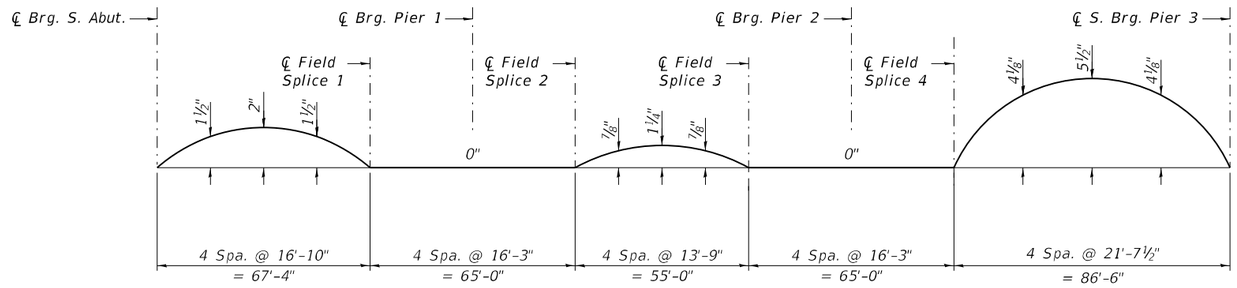
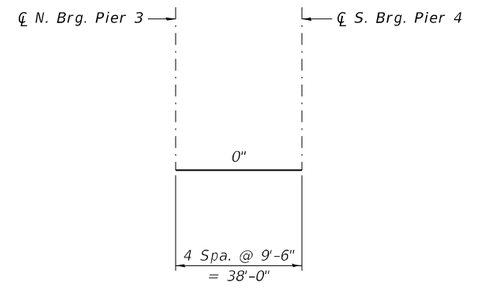
FIELD SPLICE DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-32 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	135
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

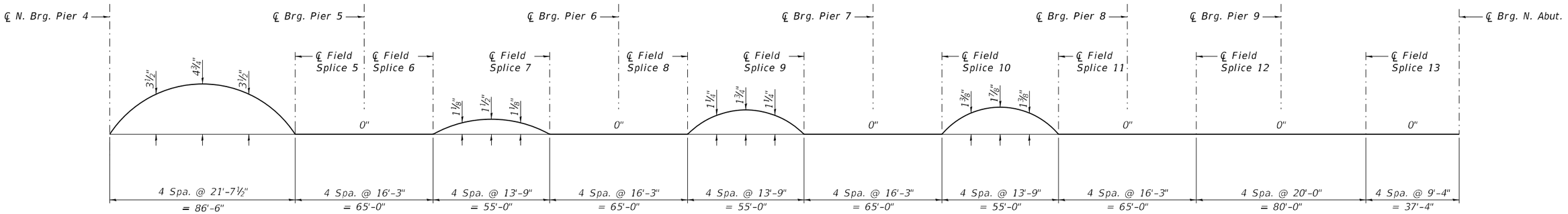


CAMBER DIAGRAM – UNIT 1



CAMBER DIAGRAM – UNIT 2

(For Girders 1a, 1, 2, & 2a.)



CAMBER DIAGRAM – UNIT 3

UNIT 1								
	℄ Brg. S. Abut.	FS 1	℄ Brg. Pier 1	FS 2	FS 3	℄ Brg. Pier 2	FS 4	℄ S. Brg. Pier 3
Girder 1	678.97	678.07	677.52	676.97	676.06	675.69	675.32	673.88
Girder 2	678.97	678.07	677.52	676.97	676.06	675.69	675.32	673.88

UNIT 2		
	℄ N. Brg. Pier 3	℄ S. Brg. Pier 4
Girder 1a	673.76	673.57
Girder 1	673.88	673.69
Girder 2	673.88	673.69
Girder 2a	673.76	673.57

UNIT 3															
	℄ N. Brg. Pier 4	FS 5	℄ Brg. Pier 5	FS 6	FS 7	℄ Brg. Pier 6	FS 8	FS 9	℄ Brg. Pier 7	FS 10	FS 11	℄ Brg. Pier 8	FS 12	℄ Brg. Pier 9	FS 13	℄ Brg. N. Abut.
Girder 1	673.66	672.91	672.49	672.08	671.63	671.31	670.99	670.40	670.11	669.83	669.35	668.86	668.37	668.14	667.98	668.07
Girder 2	673.66	672.91	672.49	672.08	671.63	671.31	670.99	670.40	670.11	669.83	669.35	668.86	668.37	668.14	667.98	668.07

TOP OF WEB ELEVATIONS

For fabrication only. Elevations based on a "No-Load" condition (fully supported with the web horizontal).

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

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Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10809.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

STEEL GIRDER TOP OF WEB ELEVATIONS AND CAMBER
STRUCTURE NO. 052-0082

SHEET NO. S-33 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	136
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

GIRDER MOMENT TABLE																	
		UNIT 1					UNIT 2	UNIT 3									
		0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.6 Span 3	0.5 Span 4	0.4 Span 5	Pier 5	0.5 Span 6	Pier 6	0.5 Span 7	Pier 7	0.5 Span 8	Pier 8	0.5 Span 9	Pier 9	0.6 Span 10
I_s	(in^4)	9,035	35,049	9,035	41,831	9,035	9,035	9,035	41,831	9,035	35,049	9,035	35,049	9,035	28,376	9,035	28,376	9,035
$I_c(n)$	(in^4)	24,428	–	24,428	–	24,428	22,948	24,428	–	24,428	–	24,428	–	24,428	–	24,428	–	24,428
$I_c(3n)$	(in^4)	18,094	–	18,094	–	18,094	17,635	18,094	–	18,094	–	18,094	–	18,094	–	18,094	–	18,094
$I_c(cr)$	(in^4)	–	43,505	–	50,508	–	–	–	50,507	–	43,506	–	43,506	–	36,597	–	36,597	–
S_s	(in^3)	482	1,131	482	1,339	482	482	482	1,339	482	1,131	482	1,131	482	923	482	94	482
$S_c(n)$	(in^3)	704	–	704	–	704	668	704	–	704	–	704	–	704	–	704	–	704
$S_c(3n)$	(in^3)	641	–	641	–	641	618	641	–	641	–	641	–	641	–	641	–	641
$S_c(cr)$	(in^3)	–	1,242	–	1,447	–	–	–	1,447	–	1,242	–	1,242	–	1,039	–	1,039	–
S_x	(in^3)	631	1,209	665	1,406	592	665	604	1,407	656	1,212	657	1,206	643	1,008	701	-274	662
DC1	(k/')	1.09	1.17	1.53	1.19	1.09	1.20	1.09	1.19	1.53	1.17	1.09	1.17	1.09	1.14	1.09	1.14	1.09
M_{DC1}	('k)	518	1,136	283	1,678	803	217	717	1,662	341	1,037	336	1,237	435	818	22	437	299
DC2	(k/')	0.045	0.045	0.045	0.045	0.045	0.660	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
M_{DC2}	('k)	31	58	11	82	44	119	43	83	13	52	21	68	24	45	1	24	17
DW	(k/')	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M_{DW}	('k)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M_{LL}	('k)	645	1,193	817	1,395	793	182	808	1,451	879	1,295	647	1,172	610	936	350	562	364
f_f (Strength I)	(ksi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
$M_u + {}^1/_3 f_f S_x$	('k)	1,693	3,581	1,798	4,643	2,338	738	2,254	4,721	1,981	3,627	1,480	3,574	1,640	2,717	627	1,545	1,032
$\phi_f M_n$	('k)	3,414	–	3,542	–	3,205	3,336	3,269	–	3,498	–	3,553	–	3,480	–	2,998	–	3,586
f_s DC1	(ksi)	12.9	12.1	7.0	15.0	20.0	5.4	17.9	14.9	8.5	11.0	8.4	13.1	10.8	10.6	0.5	55.6	7.4
f_s DC2	(ksi)	0.6	0.6	0.2	0.7	0.8	2.3	0.8	0.7	0.2	0.5	0.4	0.7	0.4	0.5	0.0	0.3	0.3
f_s DW	(ksi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
f_s (M_{LL})	(ksi)	11.0	11.5	13.9	11.6	13.5	3.3	13.8	12.0	15.0	12.5	11.0	11.3	10.4	10.8	6.0	6.5	6.2
f_f (Service II)	(ksi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
$f_s + {}^{f_f}/_2$ (Service II)	(ksi)	27.8	27.6	25.4	30.8	38.4	11.0	36.6	31.2	28.2	27.8	23.1	28.5	24.8	25.2	8.3	64.3	15.8
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
$f_s + {}^{f_f}/_3$ (Strength I)	(ksi)	36.1	35.9	33.5	39.9	49.7	15.4	47.4	40.5	37.2	36.3	30.3	37.0	32.3	32.9	11.1	81.2	20.6
$\phi_f F_n$	(ksi)	–	50.0	–	50.0	–	50.0	–	50.0	–	50.0	–	50.0	–	50.0	–	50.0	–

GIRDER REACTION TABLE – UNIT 1					
		S. Abut.	Pier 1	Pier 2	Pier 3
R_{DC1}	(k)	29.8	102.7	123.9	41.6
R_{DC2}	(k)	1.7	5.3	6.3	2.0
R_{DW}	(k)	0.0	0.0	0.0	0.0
R_{LL}	(k)	28.3	91.4	98.9	31.1
R_{Total} (Strength I)(No Impact)	(k)	88.8	295.0	335.7	108.9

GIRDER REACTION TABLE – UNIT 2			
		Pier 3	Pier 4
R_{DC1}	(k)	26.8	26.8
R_{DC2}	(k)	16.6	16.6
R_{DW}	(k)	0.0	0.0
R_{LL}	(k)	22.5	22.5
R_{Total} (Strength I)(No Impact)	(k)	93.6	93.6

GIRDER REACTION TABLE – UNIT 3								
		Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9	N. Abut.
R_{DC1}	(k)	35.0	124.0	96.4	112.5	83.1	62.9	22.7
R_{DC2}	(k)	2.0	6.3	5.0	5.7	4.6	3.5	1.2
R_{DW}	(k)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R_{LL}	(k)	31.4	101.3	95.5	88.6	78.5	62.1	21.5
R_{Total} (Strength I)(No Impact)	(k)	101.2	340.2	293.8	302.8	247.0	191.6	67.5

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange ($in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{LL} : Un-factored live load moment (kip-ft).

M_u : Strength I load combination of factored design moments (kip-ft.). $1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{LL}$

f_f : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).

$\phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / $S_c(3n)$ or M_{DC2} / $S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / $S_c(3n)$ or M_{DW} / $S_c(cr)$ as applicable.

f_s (M_{LL}): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load as calculated below (ksi).
M_{LL} / $S_c(n)$ or M_{LL} / $S_c(cr)$ as applicable.

$f_s + f_f/2$ (Service II): Sum of stresses as computed below (ksi).
f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (M_{LL}) + $f_f/2$

Service II Resistance: Composite ($0.95R_hF_{yf}$) or noncomposite ($0.80R_hF_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_f/3$ (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (M_{LL}) + $f_f/3$

$\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

V_f : Maximum factored shear range in span computed according to Article 6.10.10.

R_{DC1} : Un-factored reaction due to non-composite dead load (kip).

R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).

R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).

R_{LL} : Un-factored live load reaction (kip).

R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 ($R_{DC1} + R_{DC2}$) + 1.5R_{DW} + 1.75 (R_{LL})

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REVISION	DATE	BY	REMARKS

DESIGNED AED/MCB
CHECKED KMP/MFH
DRAWN RMG
CHECKED KMP/MFH

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312-565-0450 Job No. 10869.00

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RIVER CROSSING SHARED-USE PATH
2024

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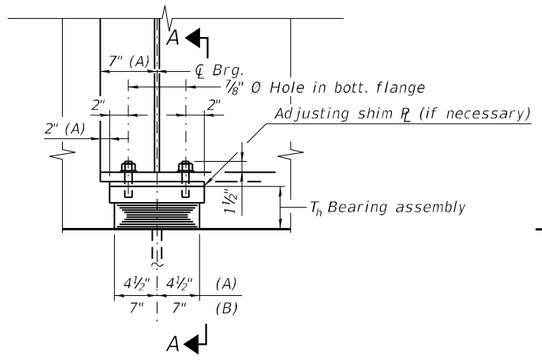
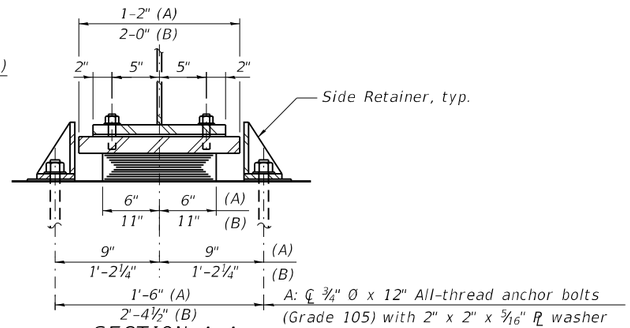
MOMENT AND REACTION TABLES
STRUCTURE NO. 052-0082
SHEET NO. S-34 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	137
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		



ELEVATION

(S. & N. Brg. Pier 3 shown, others similar)

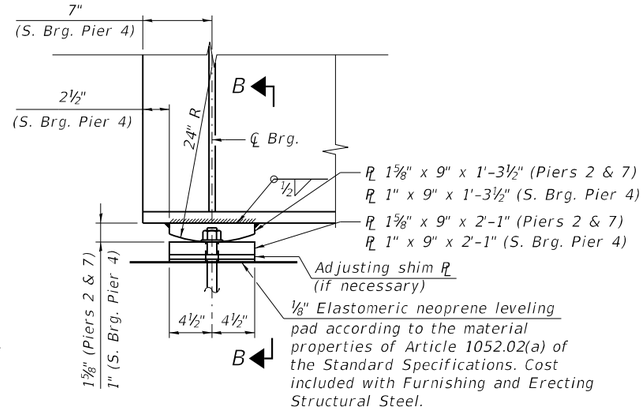


SECTION A-A

A: ℄ ¾" Ø x 12" All-thread anchor bolts (Grade 105) with 2" x 2" x 5/16" PL washer under nut.
B: ℄ 1" Ø x 12" All-thread anchor bolts (Grade 105) with 2¼" x 2¼" x 5/16" PL washer under nut.

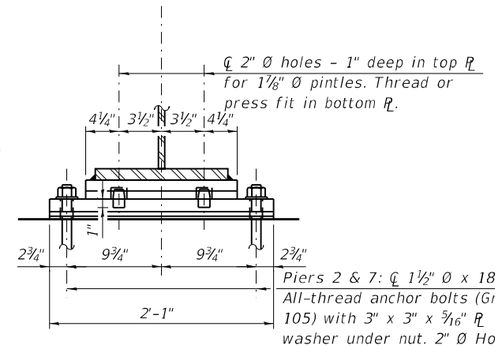
TYPE I ELASTOMERIC EXP. BRG.

(A = S. & N. Brg. Pier 3;
B = Piers 1, 5, 6, 8, & 9)



ELEVATION

(S. Brg. Pier 4 shown, others similar)

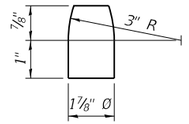


SECTION B-B

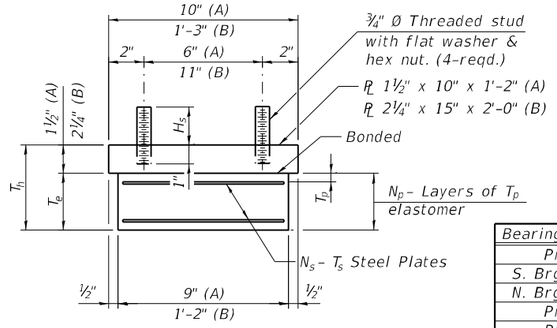
Piers 2 & 7: ℄ 1½" Ø x 18" All-thread anchor bolts (Grade 105) with 3" x 3" x 5/16" PL washer under nut. 2" Ø Holes in bottom PL.
S. Brg. Pier 4: ℄ ¾" Ø x 12" All-thread anchor bolts (Grade 105) with 2" x 2" x 5/16" PL washer under nut. 1¼" Ø Holes in bottom PL.

FIXED BEARING

(Piers 2, 7, & S. Brg. Pier 4)

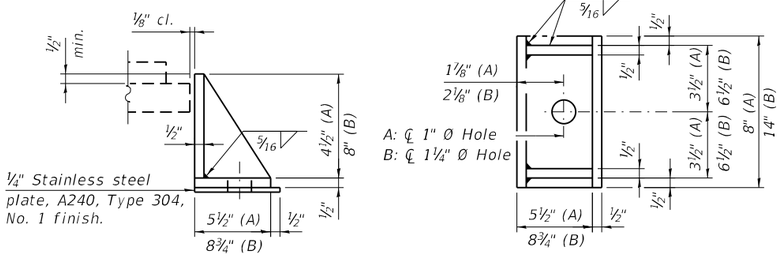


PINTLE



BEARING ASSEMBLY

Bearing Location	T_e	T_h	N_s	T_s	N_p	T_p	H_s
Pier 1	3 5/16"	5 9/16"	3	3/16"	4	1 1/16"	2¾"
S. Brg. Pier 3	3 3/16"	4 1 1/16"	6	3/32"	7	⅜"	2½"
N. Brg. Pier 3	3 3/16"	4 1 1/16"	6	3/32"	7	⅜"	2½"
Pier 5	5 1 5/16"	8 3/16"	6	3/16"	7	1 1/16"	3"
Pier 6	3 5/16"	5 9/16"	3	3/16"	4	1 1/16"	2¾"
Pier 8	3 5/16"	5 9/16"	3	3/16"	4	1 1/16"	2½"
Pier 9	5 1 5/16"	8 3/16"	6	3/16"	7	1 1/16"	2½"



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	16
Anchor Bolts, ¾"	Each	20
Anchor Bolts, 1"	Each	20
Anchor Bolts, 1½"	Each	8

NOTES:

1. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
3. Shim plates shall not be placed under Elastomeric Bearing, Type I bearing assemblies.
4. The cost of the fixed bearing assembly, excluding Anchor Bolts, shall be included with "Furnishing and Erecting Structural Steel".
5. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
6. Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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2024

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ELASTOMERIC BEARING TYPE I & LOW PROFILE FIXED BEARING DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-35 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	138
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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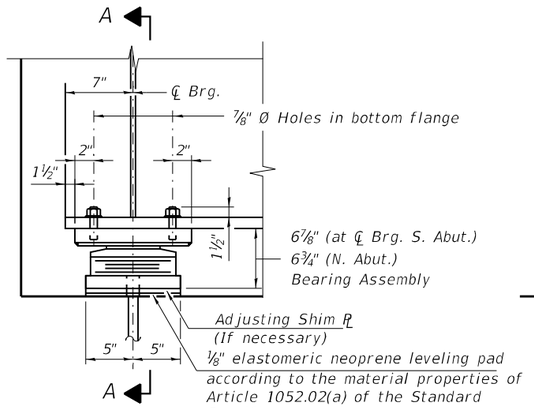
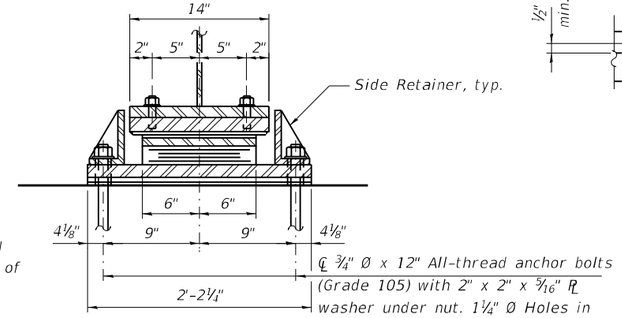


ELEVATION

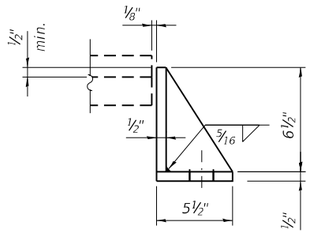
(N. Abut. shown, S. Abut. similar)

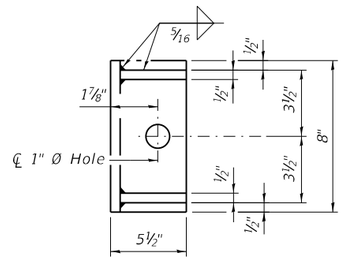


SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.

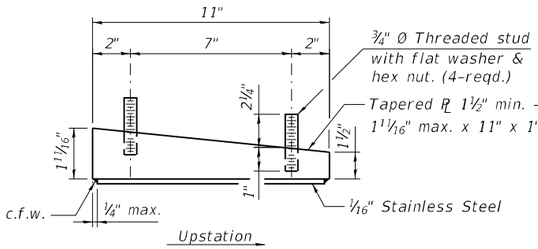
(South and North Abutments)





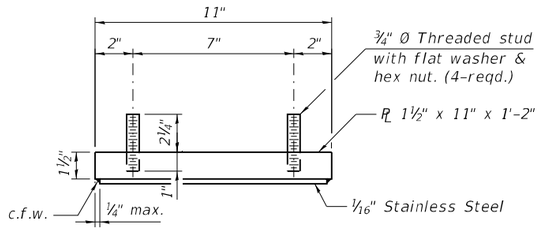
SIDE RETAINER

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



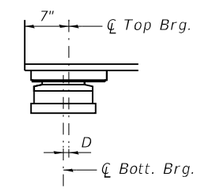
TOP BEARING ASSEMBLY

(S. Abut.)

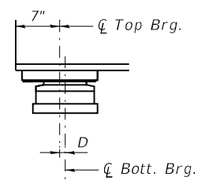


TOP BEARING ASSEMBLY

(N. Abut.)



BELOW 50°F.

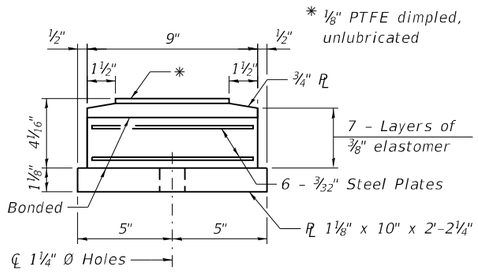


ABOVE 50°F.

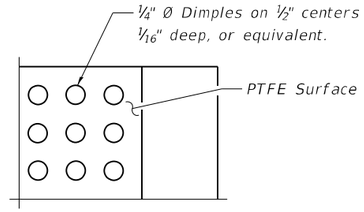
D=⅛" per each 100' of expansion for every 15° temp.
change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

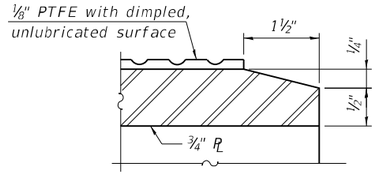
The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.



BOTTOM BEARING ASSEMBLY



PLAN-PTFE SURFACE



SECTION THRU PTFE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4
Anchor Bolts, ¾"	Each	8

NOTES:

1. Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
2. The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
3. Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
4. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
6. Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

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REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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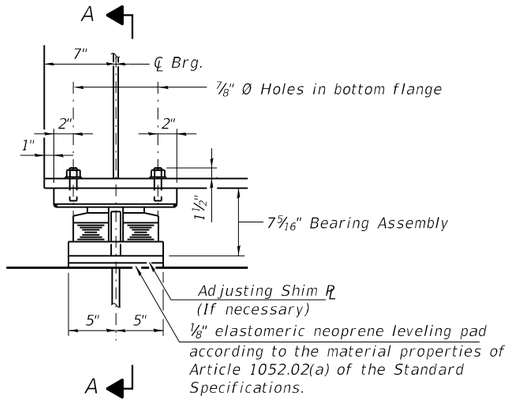
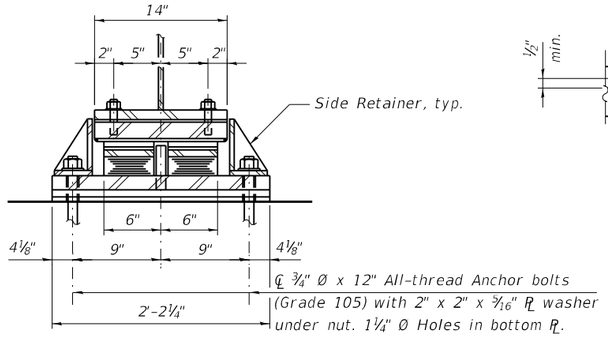
ELASTOMERIC BEARING TYPE II DETAILS
STRUCTURE NO. 052-0082

SHEET NO. S-36 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	139
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5L7(916)		



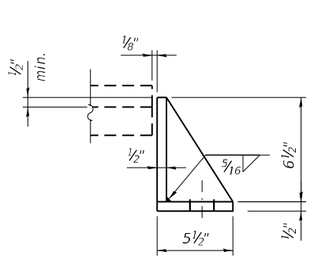
ELEVATION

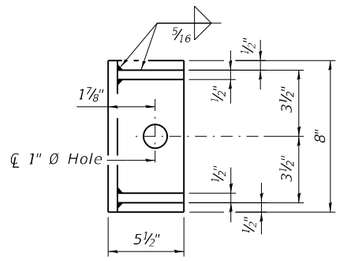


SECTION A-A

TYPE III ELASTOMERIC EXP. BRG.

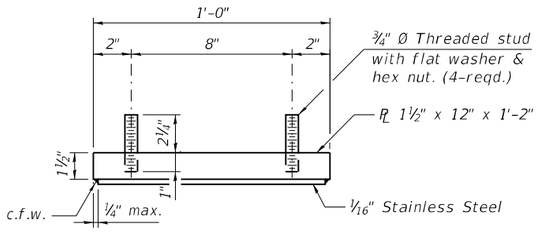
(N. Brg. Pier 4)



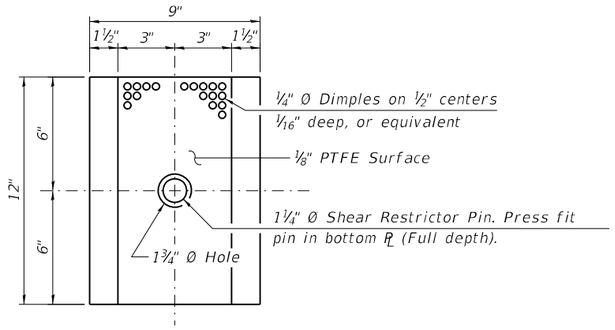


SIDE RETAINER

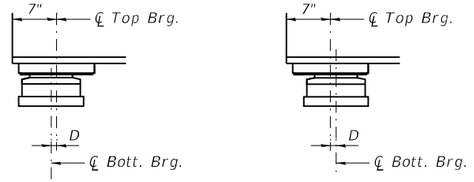
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



TOP BEARING ASSEMBLY



PLAN-PTFE ELASTOMERIC BRG.

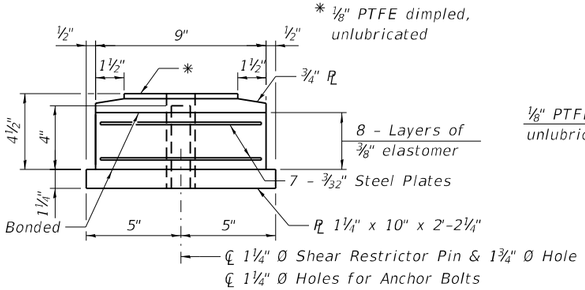


BELOW 50°F. ABOVE 50°F.

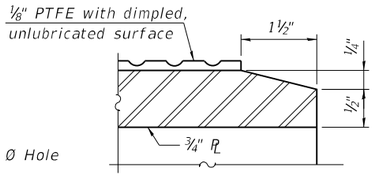
D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.



BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type III	Each	2
Anchor Bolts, ¾"	Each	4

NOTES:

1. Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type III.
2. The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
3. Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
4. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
6. Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

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REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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RIVER CROSSING SHARED-USE PATH
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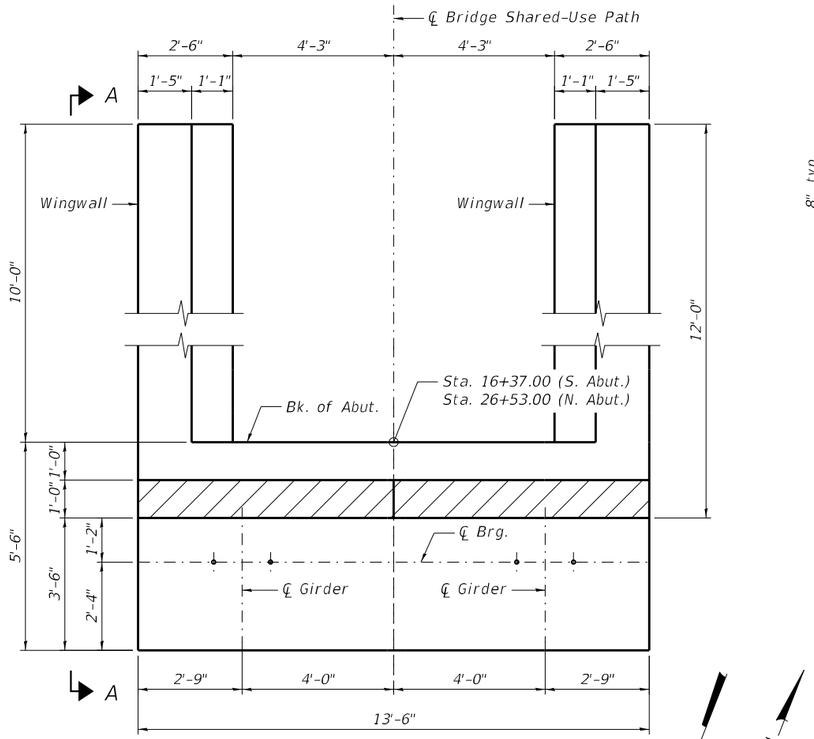
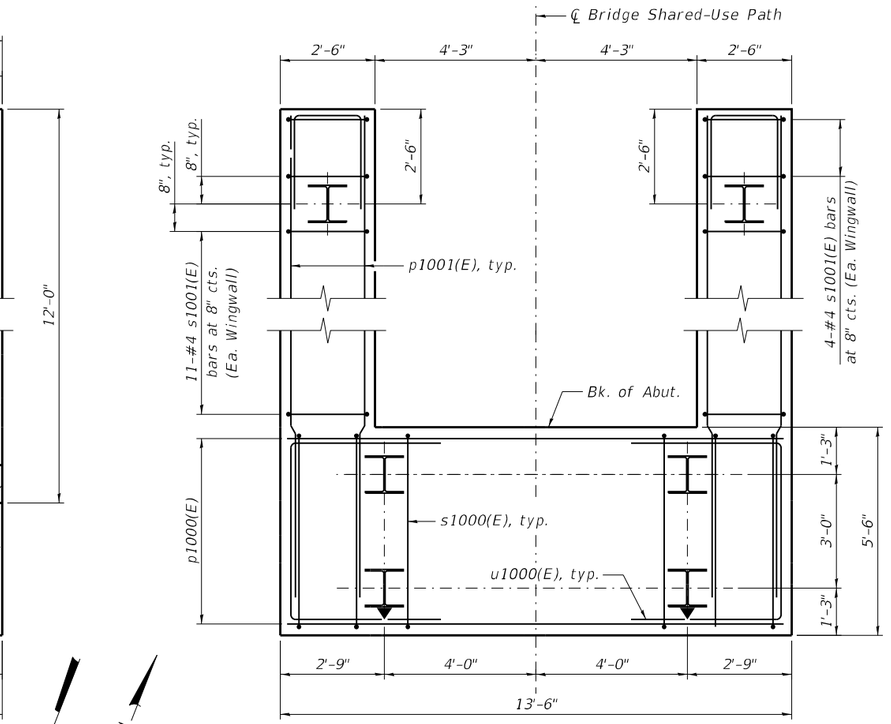
ELASTOMERIC BEARING TYPE III DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-37 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	140
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



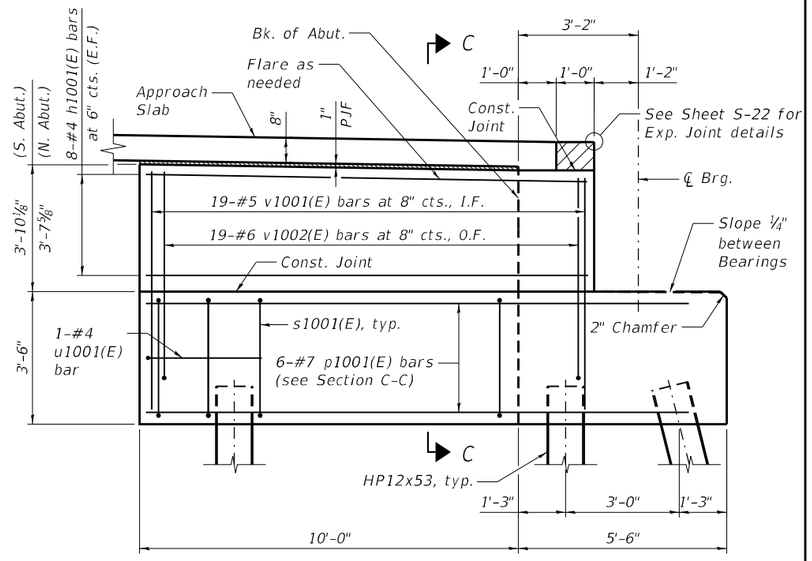
PLAN - ABUTMENT



FOUNDATION & PILE LAYOUT

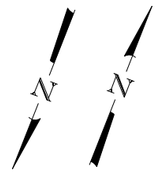
ELEVATION TABLE 85762

LOCATION	ELEVATION				
	A	B	C	D	E
S. ABUT.	679.86	679.76	679.01	675.32	671.82
N. ABUT.	668.92	668.82	668.07	664.43	660.93

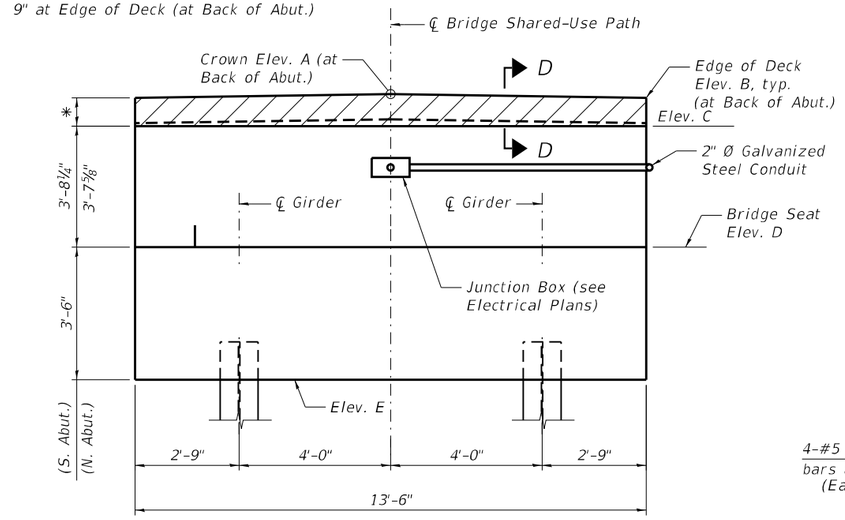


VIEW A-A

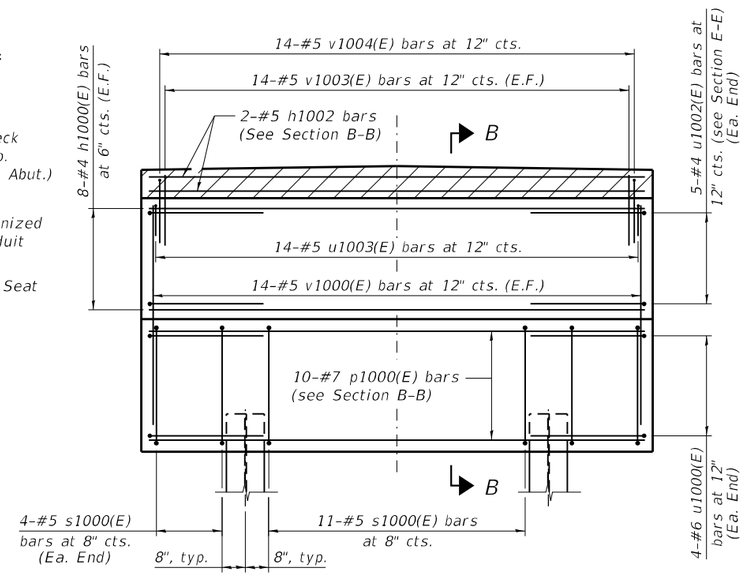
(Opposite wingwall similar)



* 10¼" at Crown (at Back of Abut.)
9" at Edge of Deck (at Back of Abut.)



ELEVATION - ABUTMENT



ELEVATION - ABUTMENT REINFORCEMENT

NOTES:

1. See Sheet S-39 for Sections B-B, C-C & D-D.
2. Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
3. Quantity of concrete in hatched area included with Concrete Superstructure.
4. Space reinforcement in cap to miss anchor bolts.
5. For details of piles see Sheet S-45.
6. Boring 1, located at the S. Abutment, indicates a "possible void" between elevations 661.6 and 667.6. The Contractor shall excavate a 3'-0" by 3'-0" min. area to elevation 661.6 at the location of the boring to determine whether a void or unsuitable soils are present. The extent of the exploratory excavation and backfilling to the ground surface as it existed before any excavation was made shall be paid for as Potholing. Additional removal and disposal of unsuitable materials and backfilling beyond these limits will be paid separately. Refer to the Special Provision for "Potholing" for additional information.

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	SLV
DRAWN	RMG
CHECKED	SLV

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RIVER CROSSING SHARED-USE PATH
2024

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ABUTMENT DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-38 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	141
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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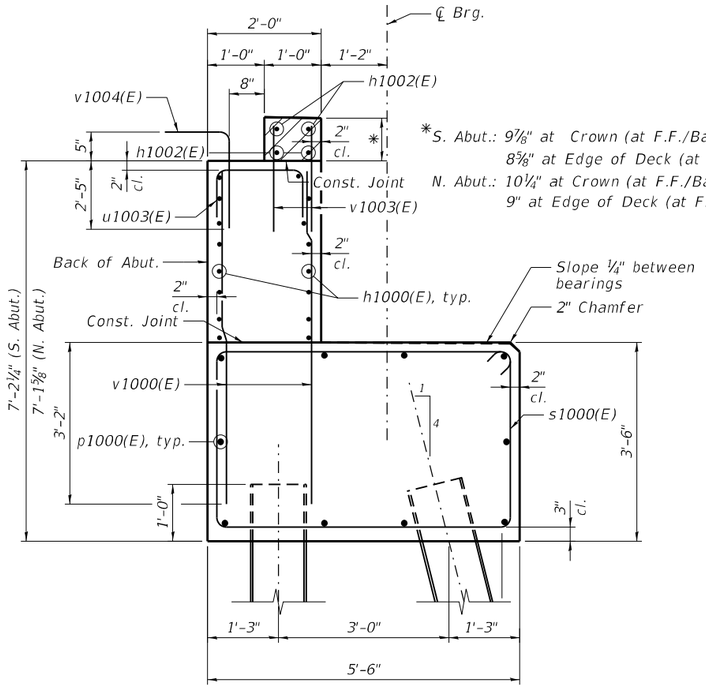
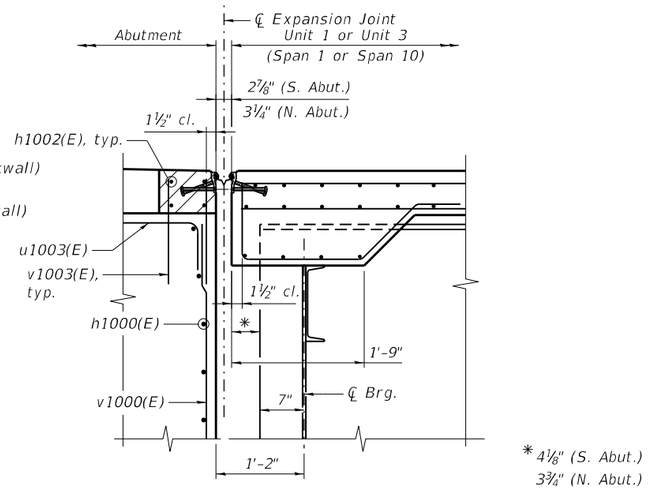


SECTION B-B

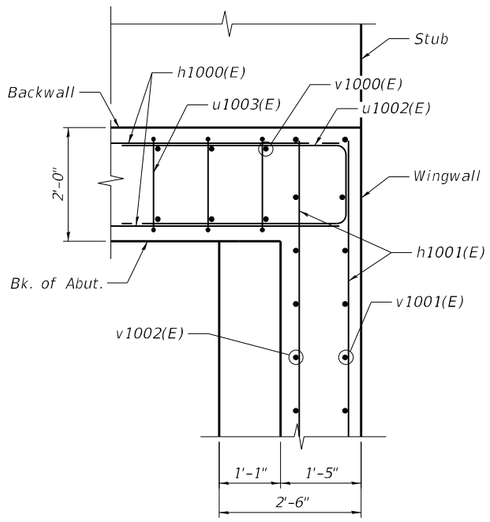
* S. Abut.: 9⅞" at Crown (at F.F./Backwall)
8⅜" at Edge of Deck (at F.F./Backwall)
N. Abut.: 10¼" at Crown (at F.F./Backwall)
9" at Edge of Deck (at F.F./Backwall)



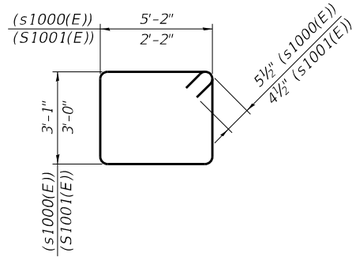
* 4⅛" (S. Abut.)
3¾" (N. Abut.)

SECTION D-D

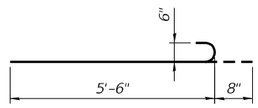
SECTION C-C



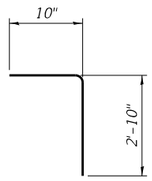
SECTION E-E



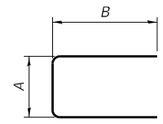
BAR s1000(E) AND s1001(E)



BAR v1002(E)



BAR v1004(E)



BARS u1000(E), u1001(E), u1002(E), & u1003(E)

ABUTMENT
BILL OF MATERIAL
(Quantity for N. & S. Abutments)

Bar	No.	Size	Length	Shape
h1000(E)	32	#4	13'-2"	
h1001(E)	32	#4	11'-8"	
h1002(E)	8	#5	13'-2"	
p1000(E)	20	#7	13'-2"	
p1001(E)	24	#7	15'-2"	
s1000(E)	38	#5	17'-5"	
s1001(E)	60	#4	11'-1"	
u1000(E)	16	#6	13'-9"	
u1001(E)	4	#4	7'-11"	
u1002(E)	20	#4	9'-11"	
u1003(E)	28	#5	3'-4"	
v1000(E)	56	#5	6'-9"	
v1001(E)	76	#5	6'-9"	
v1002(E)	76	#6	6'-2"	
v1003(E)	56	#5	2'-3"	
v1004(E)	28	#5	3'-8"	
Structure Excavation			Cu. Yd.	203
Concrete Structures			Cu. Yd.	47.4
Reinforcement Bars, Epoxy Coated			Pound	5,510
Furnishing Steel Piles HP12x53			Foot	390
Driving Piles			Foot	390
Test Pile Steel HP12x53			Each	2
Pile Shoes			Each	12

PILE DATA

SOUTH ABUTMENT
Type: HP12x53 with Pile Shoes
Nominal Required Bearing: 164 kips
Factored Resistance Available: 90 kips
Est. Length: 38 ft.
No. Production Piles: 5
No. Test Piles: 1

NORTH ABUTMENT
Type: HP12x53 with Pile Shoes
Nominal Required Bearing: 147 kips
Factored Resistance Available: 81 kips
Est. Length: 40 ft.
No. Production Piles: 5
No. Test Piles: 1

u(E) Bar Dimensions

Bar	A	B
u1000(E)	5'-1"	4'-4"
u1001(E)	2'-1"	2'-11"
u1002(E)	1'-6½"	4'-2"
u1003(E)	1'-8"	10"

NOTE:

For superstructure details in Section D-D, see Sheets S-13 to S-19.

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED SLV
DRAWN RMG
CHECKED SLV

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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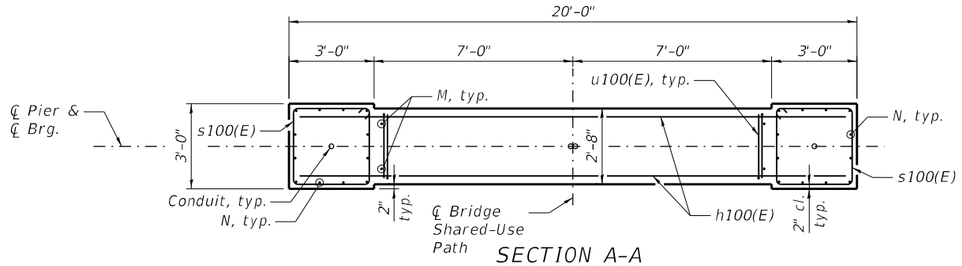
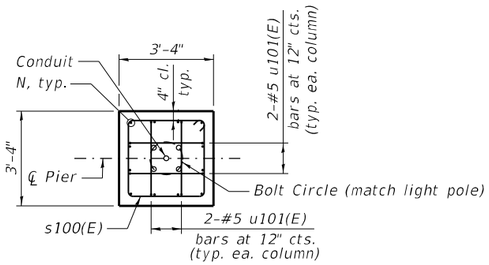
ABUTMENT DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-39 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	142
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			



SECTION A-A



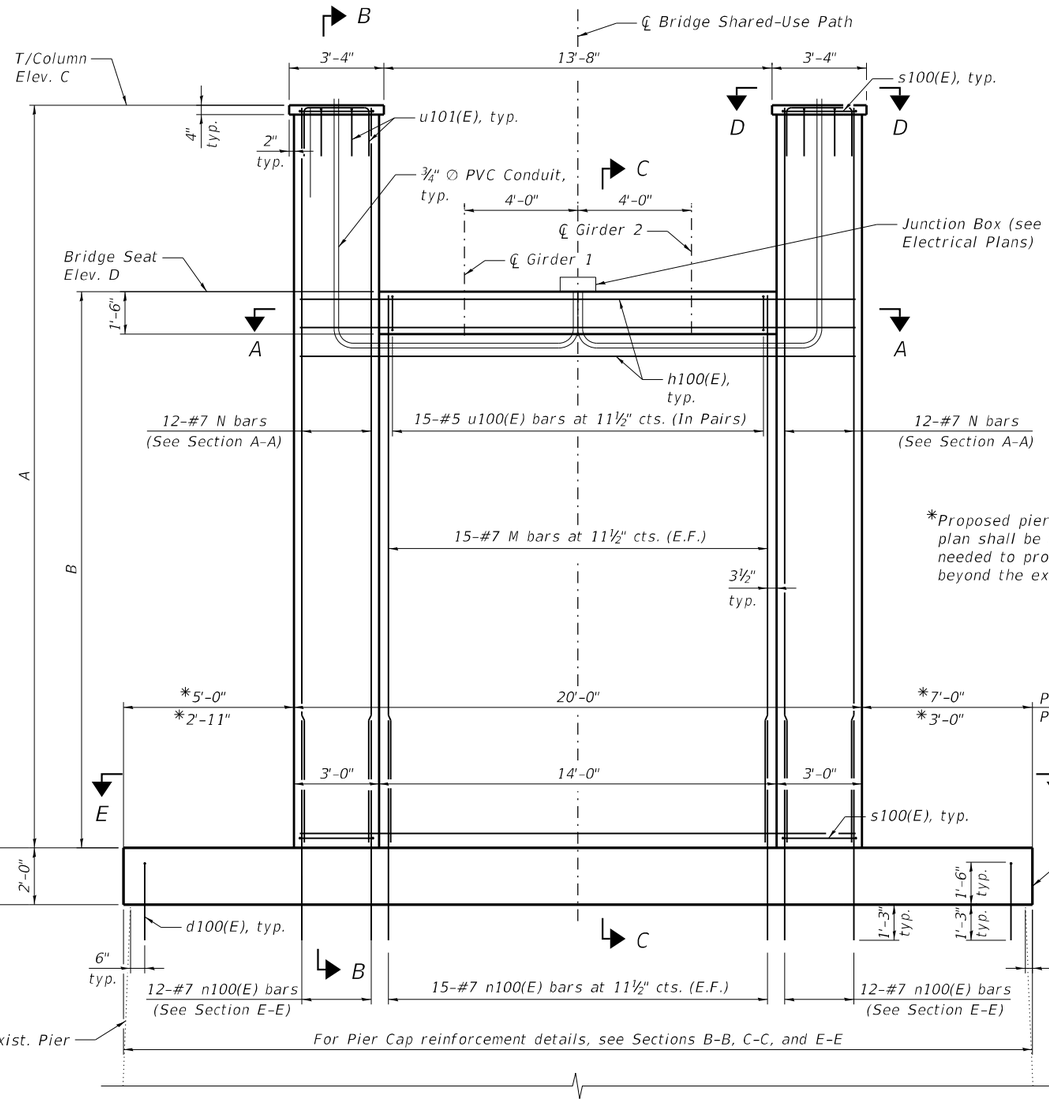
VIEW D-D

PIER TABLE

ITEM	PIER 1	PIER 2	PIER 5	PIER 6	PIER 7	PIER 8	PIER 9
A	26'-9½"	24'-11⅞"	21'-9½"	20'-7⅛"	19'-4⅝"	18'-2¼"	17'-4¾"
B	20'-6½"	18'-10½"	15'-3⅜"	14'-4⅛"	13'-5"	11'-10¾"	10'-11½"
C	678.22	676.42	673.22	672.02	670.82	669.62	668.82
D	671.97	670.31	666.71	665.77	664.85	663.33	662.39
M	v100(E)	v101(E)	v102(E)	v103(E)	v104(E)	v105(E)	v106(E)
N	v107(E)	v108(E)	v109(E)	v110(E)	v111(E)	v112(E)	v113(E)
Y	28	26	23	22	20	19	18
Z	20	18	15	14	13	11	10

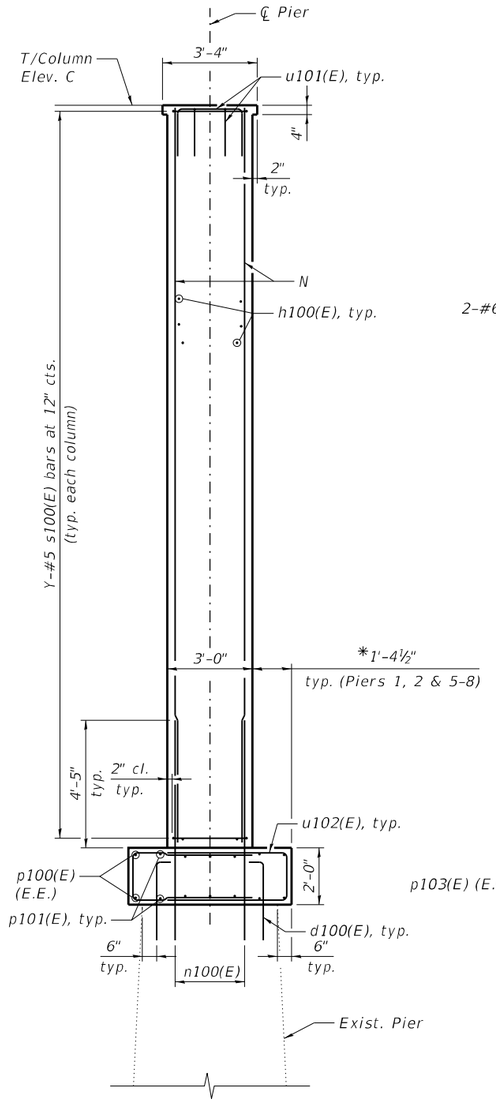
NOTES:

1. See Sheet S-41 for Section E-E, bar bends, and bill of materials.
2. Space reinforcement to miss anchor bolts in bearing assemblies.
3. Cost of anchor rods is included with Concrete Structures.
4. Bars shall be drilled and grouted as shown in accordance with Section 584 of the Standard Specifications.

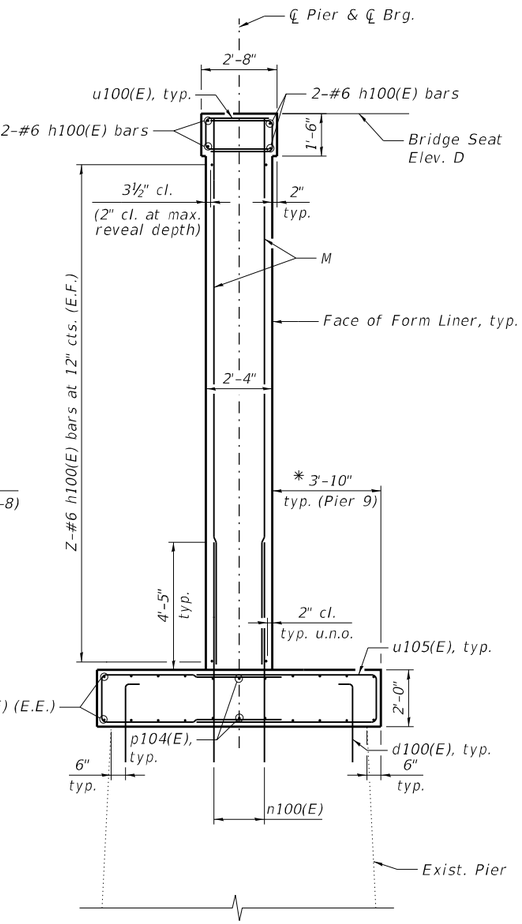


*Proposed pier cap dimensions in plan shall be adjusted as needed to provide a 6" overhang beyond the existing pier stem.

ELEVATION
(Looking upstation)



SECTION B-B
(Pier Cap shown for Piers 1, 2 & 5-8)



SECTION C-C
(Pier Cap shown for Pier 9)

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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Chicago, Illinois 60601
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RIVER CROSSING SHARED-USE PATH
2024

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PIER TYPE 1 DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-40 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	143
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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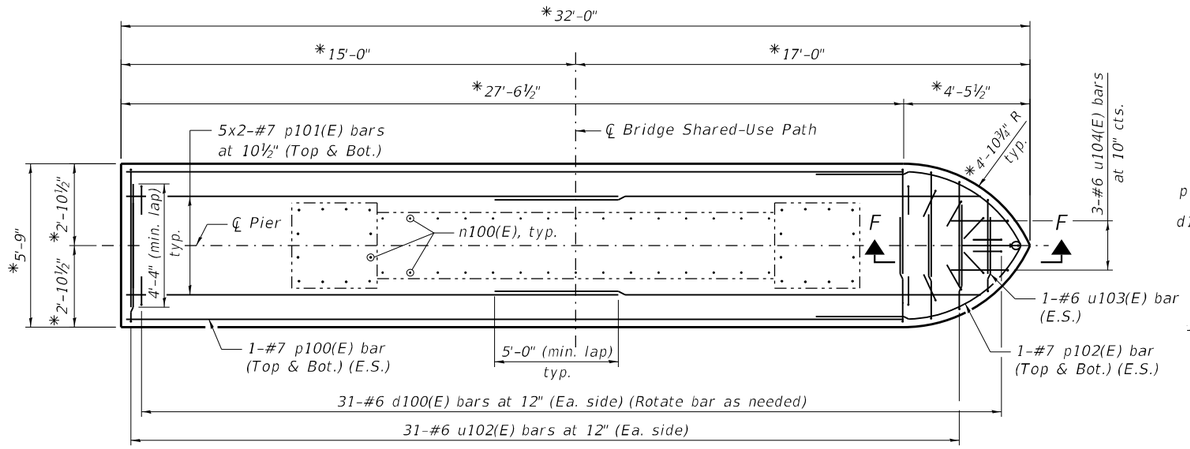
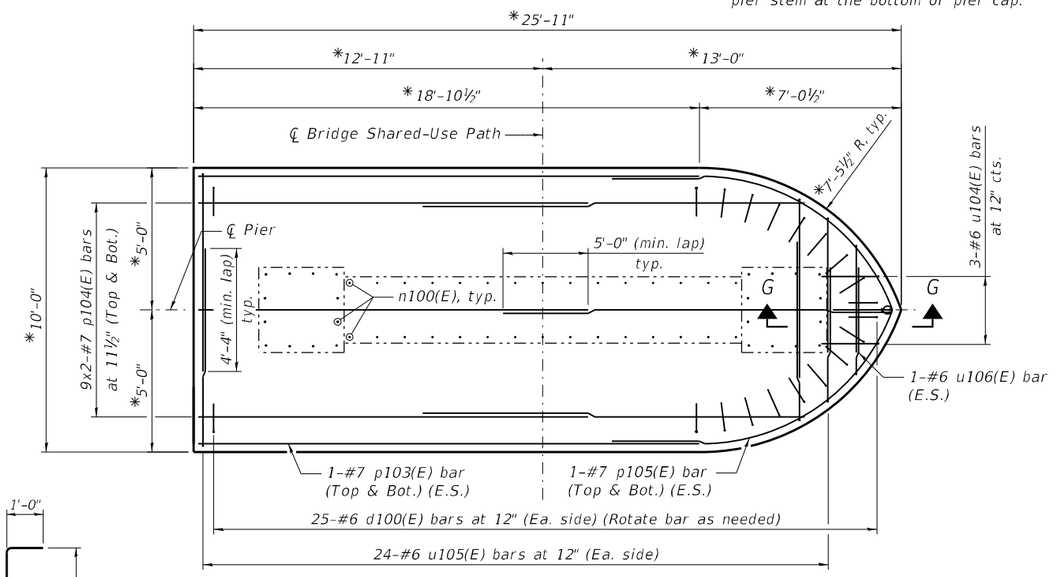
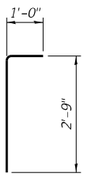


SECTION E-E
(Piers 1, 2 & 5-8)

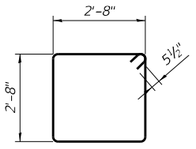
*Proposed pier cap dimensions in plan are approximate and shall be adjusted as needed to provide a 6" overhang beyond the existing pier stem at the bottom of pier cap.



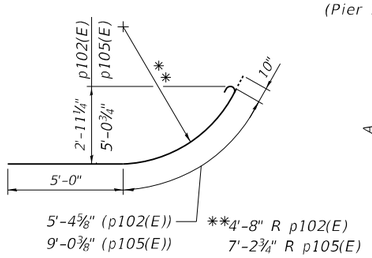
SECTION E-E
(Pier 9)



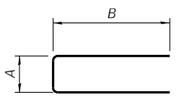
BAR d100(E)



BAR s100(E)



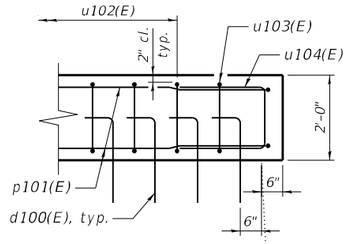
BARS p102(E) & p105(E)



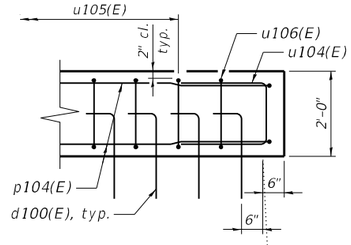
BARS u100(E) THRU u106(E)

u(E) BAR DIMENSIONS

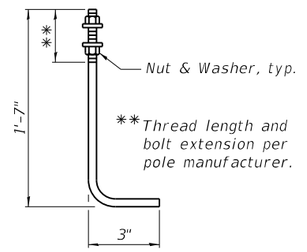
Bar	A	B
u100(E)	1'-2"	2'-4"
u101(E)	2'-6½"	3'-2"
u102(E)	1'-8"	4'-10½"
u103(E)	1'-8"	3'-0"
u104(E)	1'-6½"	3'-2"
u105(E)	1'-8"	7'-0"
u106(E)	1'-8"	4'-8½"



SECTION F-F



SECTION G-G



ANCHOR ROD
Diameter and grade as specified for light poles. Full length hot dipped galvanized.

PIER 1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	44	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	56	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v100(E)	30	#7	20'-2"	
v107(E)	24	#7	26'-5"	
Concrete Structures			Cu. Yd.	56.2
Reinforcement Bars, Epoxy Coated			Pound	8,150

PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	40	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	52	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v101(E)	30	#7	18'-6"	
v108(E)	24	#7	24'-7"	
Concrete Structures			Cu. Yd.	53.0
Reinforcement Bars, Epoxy Coated			Pound	7,790

PIER 5
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	34	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	46	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v102(E)	30	#7	14'-11"	
v109(E)	24	#7	21'-5"	
Concrete Structures			Cu. Yd.	46.5
Reinforcement Bars, Epoxy Coated			Pound	7,170

PIER 6
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	32	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	44	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v103(E)	30	#7	14'-0"	
v110(E)	24	#7	20'-3"	
Concrete Structures			Cu. Yd.	44.5
Reinforcement Bars, Epoxy Coated			Pound	6,970

PIER 7
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	30	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	40	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v104(E)	30	#7	13'-1"	
v111(E)	24	#7	19'-0"	
Concrete Structures			Cu. Yd.	42.6
Reinforcement Bars, Epoxy Coated			Pound	6,750

PIER 8
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	62	#6	3'-9"	
h100(E)	26	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p100(E)	4	#7	27'-3"	
p101(E)	20	#7	18'-4"	
p102(E)	4	#7	11'-3"	
s100(E)	38	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u102(E)	62	#6	11'-5"	
u103(E)	2	#6	7'-8"	
u104(E)	3	#6	7'-11"	
v105(E)	30	#7	11'-6"	
v112(E)	24	#7	17'-10"	
Concrete Structures			Cu. Yd.	40.0
Reinforcement Bars, Epoxy Coated			Pound	6,450

PIER 9
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	50	#6	3'-9"	
h100(E)	24	#6	19'-8"	
n100(E)	54	#7	7'-8"	
p103(E)	4	#7	18'-7"	
p104(E)	36	#7	15'-4"	
p105(E)	4	#7	14'-11"	
s100(E)	36	#5	11'-7"	
u100(E)	30	#5	5'-10"	
u101(E)	8	#5	8'-11"	
u104(E)	3	#6	7'-11"	
u105(E)	48	#6	15'-8"	
u106(E)	2	#6	11'-1"	
v106(E)	30	#7	10'-7"	
v113(E)	24	#7	17'-0"	
Concrete Structures			Cu. Yd.	43.0
Reinforcement Bars, Epoxy Coated			Pound	6,620

REVISION	DATE	BY	REMARKS

DESIGNED AED
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PIER TYPE 1 DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-41 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	144
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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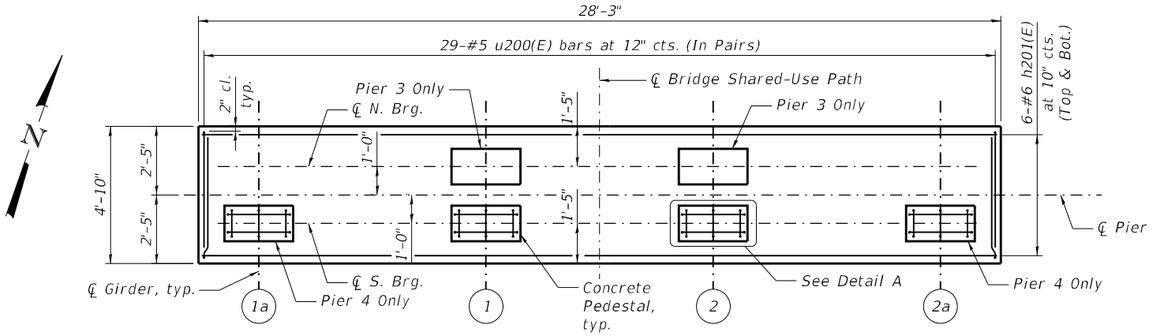
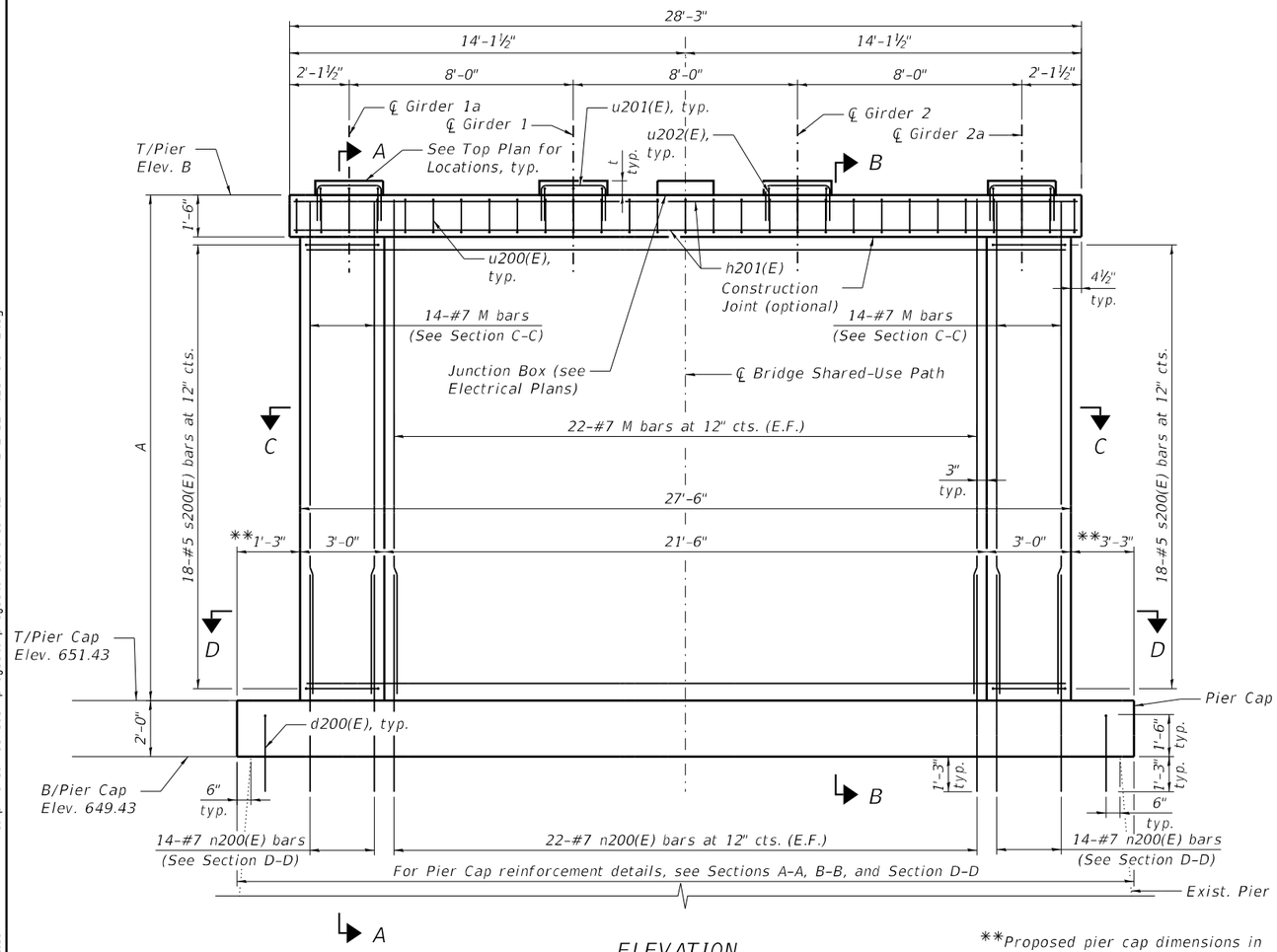


TOP PLAN

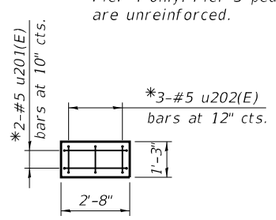
(v200(E) and v201(E) bars not shown for clarity)



ELEVATION

(Looking upstation; Pier 4 shown, Pier 3 similar)

**Proposed pier cap dimensions in plan shall be adjusted as needed to provide a 6" overhang beyond the existing pier stem.



*Pier 4 only. Pier 3 pedestals are unreinforced.

DETAIL A

CONCRETE PEDESTAL THICKNESS & SEAT ELEVATION TABLE

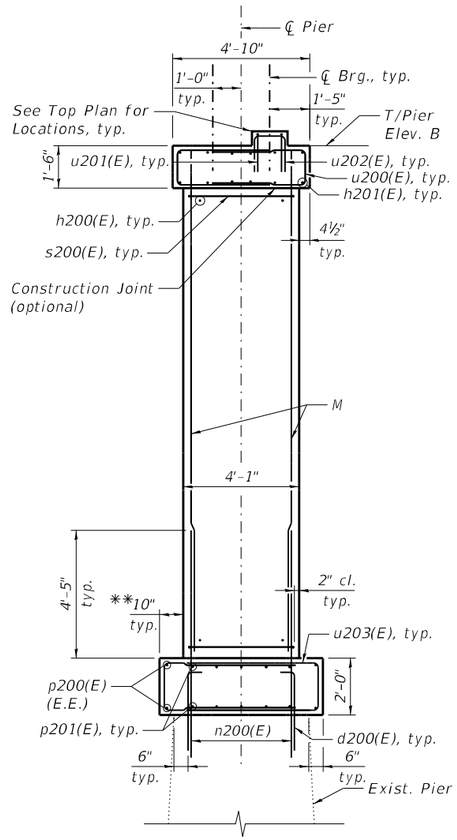
BRG.	GIRDER	PIER 3		PIER 4	
		t	Elev.	t	Elev.
North	1a	—	670.31	—	—
	1	1½"	670.43	—	669.98
	2	1½"	670.43	—	669.98
	2a	—	670.31	—	—
South	1a	—	—	4¼"	670.34
	1	1½"	670.43	5¾"	670.46
	2	1½"	670.43	5¾"	670.46
	2a	—	—	4¼"	670.34

PIER TABLE

ITEM	PIER 3	PIER 4
A	18'-10⅜"	18'-6⅜"
B	670.31	669.98
M	v200(E)	v201(E)

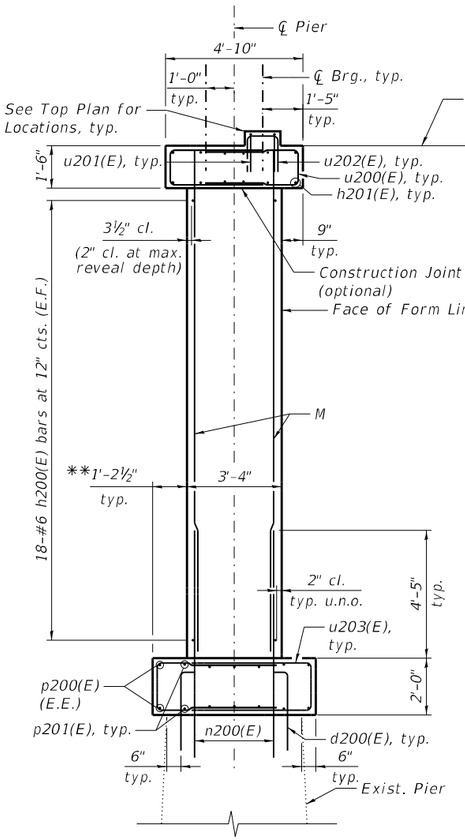
NOTES:

1. See Sheet S-43 for Section C-C, Section D-D, bar bends, and bill of materials.
2. Space reinforcement to miss anchor bolts in bearing assemblies.
3. Bars shall be drilled and grouted as shown in accordance with Section 584 of the Standard Specifications.
4. All concrete pedestals shall be poured monolithically with the cap.



SECTION A-A

(Pier 4 shown, Pier 3 similar)



SECTION B-B

(Pier 4 shown, Pier 3 similar)

REVISION	DATE	BY	REMARKS

DESIGNED AED
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PIER TYPE 2 DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-42 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	145
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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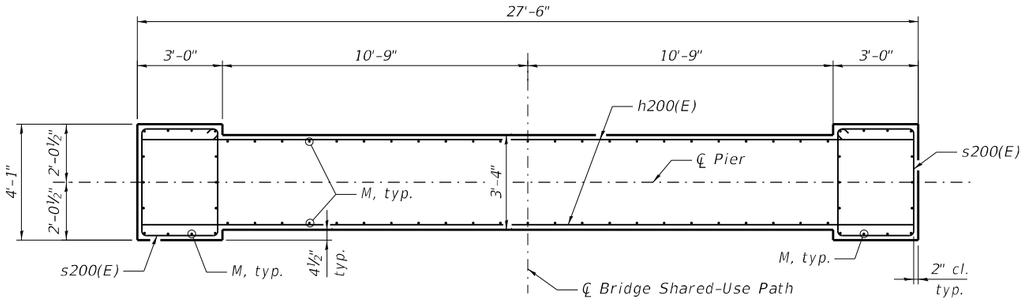
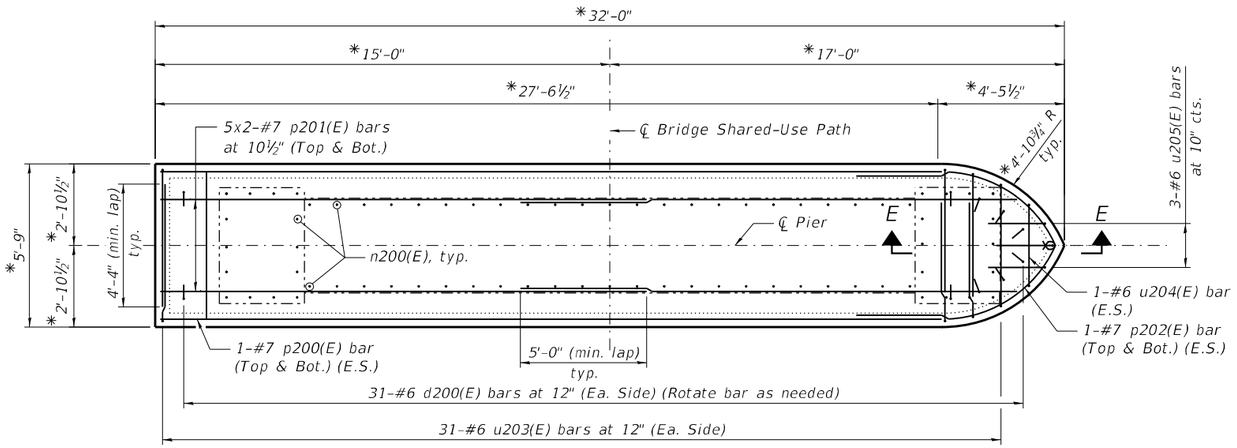
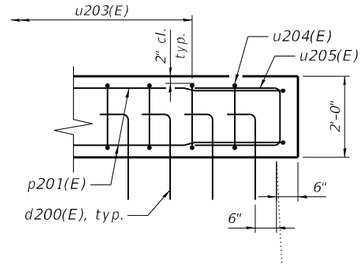


SECTION C-C

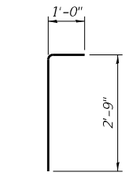


SECTION D-D

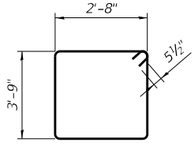


SECTION E-E

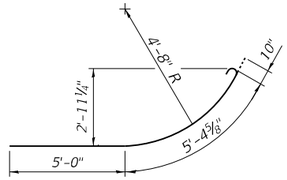
* Proposed pier cap dimensions in plan are approximate and shall be adjusted as needed to provide a 6" overhang beyond the existing pier stem at the bottom of pier cap.



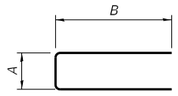
BAR d200(E)



BAR s200(E)



BAR p202(E)



BARS u200(E) THRU u205(E)

PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d200(E)	62	#6	3'-9"	
h200(E)	36	#6	27'-2"	
h201(E)	12	#6	27'-11"	
n200(E)	72	#7	7'-8"	
p200(E)	4	#7	27'-3"	
p201(E)	20	#7	18'-4"	
p202(E)	4	#7	11'-3"	
s200(E)	36	#5	13'-9"	
u200(E)	58	#5	10'-2"	
u203(E)	62	#6	11'-5"	
u204(E)	2	#6	7'-8"	
u205(E)	3	#6	7'-11"	
v200(E)	72	#7	18'-6"	
Concrete Structures			Cu. Yd.	82.7
Reinforcement Bars, Epoxy Coated			Pound	9,490

PIER 4
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d200(E)	62	#6	3'-9"	
h200(E)	36	#6	27'-2"	
h201(E)	12	#6	27'-11"	
n200(E)	72	#7	7'-8"	
p200(E)	4	#7	27'-3"	
p201(E)	20	#7	18'-4"	
p202(E)	4	#7	11'-3"	
s200(E)	36	#5	13'-9"	
u200(E)	58	#5	10'-2"	
u201(E)	8	#5	8'-4"	
u202(E)	12	#5	6'-11"	
u203(E)	62	#6	11'-5"	
u204(E)	2	#6	7'-8"	
u205(E)	3	#6	7'-11"	
v201(E)	72	#7	18'-2"	
Concrete Structures			Cu. Yd.	81.7
Reinforcement Bars, Epoxy Coated			Pound	9,600

u(E) BAR DIMENSIONS

Bar	A	B
u200(E)	1'-2"	4'-6"
u201(E)	2'-4"	3'-0"
u202(E)	11"	3'-0"
u203(E)	1'-8"	4'-10½"
u204(E)	1'-8"	3'-0"
u205(E)	1'-6½"	3'-2"

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REVISION	DATE	BY	REMARKS

DESIGNED AED
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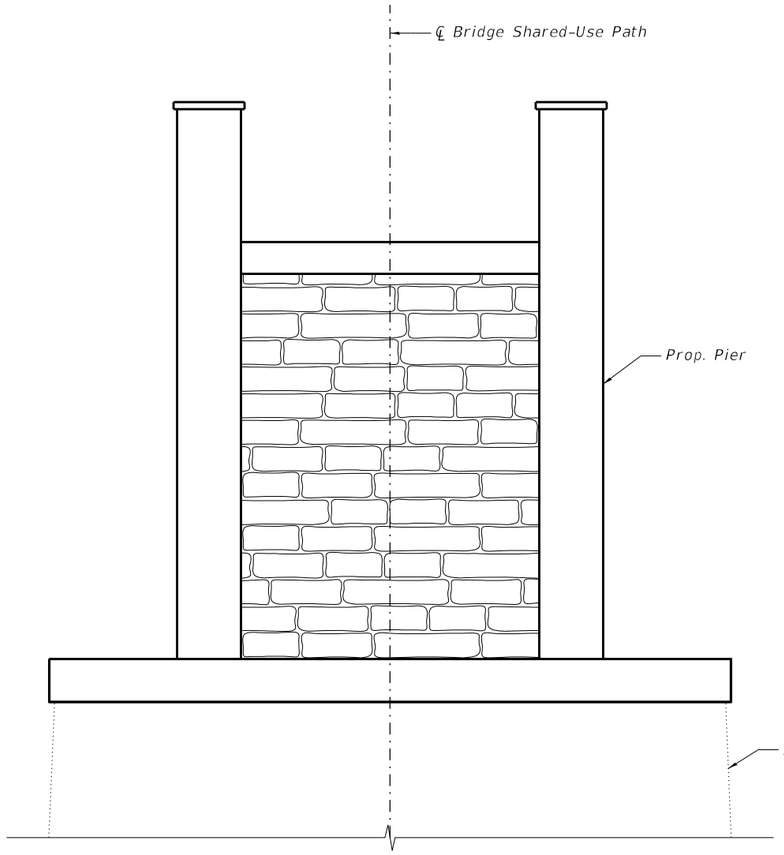
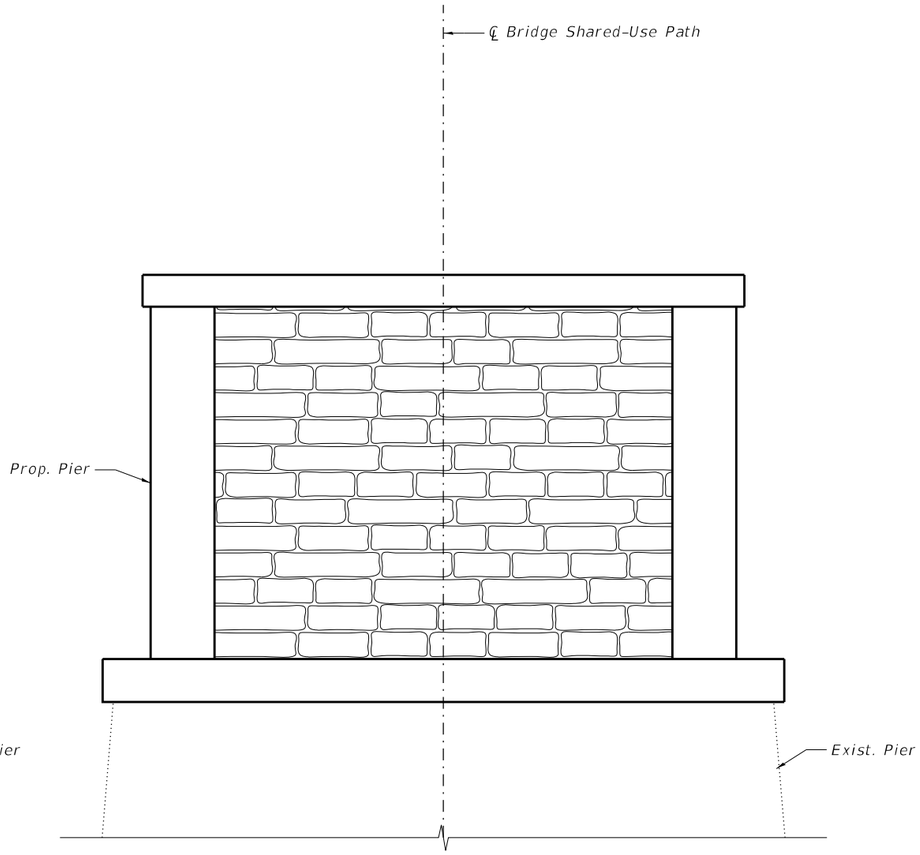
PIER TYPE 2 DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-43 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	146
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			

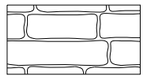


ELEVATION – PIER TYPE 1



ELEVATION – PIER TYPE 2

LEGEND:



Form Liner Textured Surface

NOTES:

1. Pier areas indicated as Form Liner Textured Surface shall be cast using form liners with a stone block surface. The form liner shall be configured to match the block sizes such that there are no joints crossing the stones. The relief shall be no greater than 1½" deep at any point.

2. Form liners shall be made from high-strength elastomeric urethane and be removable without causing concrete surface damage or weakness in the substrate. Form release agents shall be non-staining, non-residual, non-reactive, and shall not contribute to the degredation of the form liner material.

3. The following form liner manufacturers have been pre-approved to provide the listed pattern for the stone block surface:

   a. Fitzgerald Formliners; Santa Ana, CA
      #17051 Liberty Island Stone 1.5" Depth, 16" H
   b. Architectural Polymers; New Ringgold, PA
      #893A M 15" Custom Quarry Stone

   Other products will be considered, provided sufficient information is submitted 30 days prior to use to allow the Engineer to determine that products proposed are equivalent to those named.

4. Form liners shall be used in accordance with the manufacturer's recommendations, including, but not limited to, installation and removal methods, form release agents, cleaning procedures, inspection procedures, repair procedures, curing methods, concrete slump requirements, and consolidation methods to achieve the highest quality concrete appearance possible. Manufacturer recommendations shall not supplant requirements listed elsewhere in the Contract Documents without prior approval from the Engineer.

5. The finished exposed formed concrete surfaces shall be free of visible vertical seams, horizontal seams, and butt joint marks after removing the form liners. Grinding and chipping of finished formed surfaces shall be avoided.

6. The Contractor shall provide a 6'-0"x6'-0" (min.) precast panel mockup containing the form liner surface. Upon receipt of comments from inspection of the mockup, adjustments or corrections shall be made where imperfections are found. If required, additional mockups shall be prepared when the initial mockup is found to be unsatisfactory.

7. All work and materials associated with form liners and mockups, including adjustments or corrections needed to address mockup comments and additional mockups, if required, will not be paid for separately but shall be included in the cost of Form Liner Textured Surface.

8. See Sheets S-40 thru S-43 for pier dimensions.

REVISION	DATE	BY	REMARKS

DESIGNED MFH
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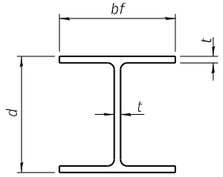
FORM LINER DETAILS
STRUCTURE NO. 052-0082

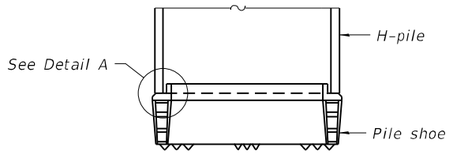
SHEET NO. S-44 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	147
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			

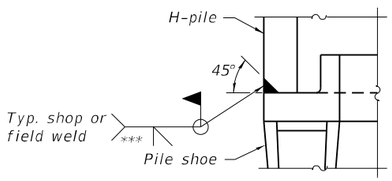


STEEL PILE TABLE

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



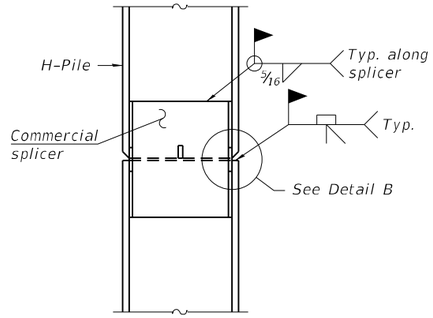
ELEVATION



DETAIL A

SHOE ATTACHMENT

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



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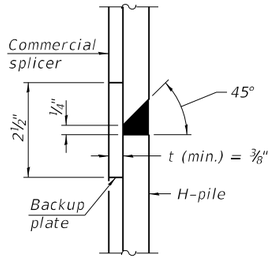
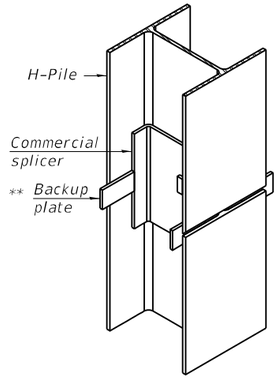
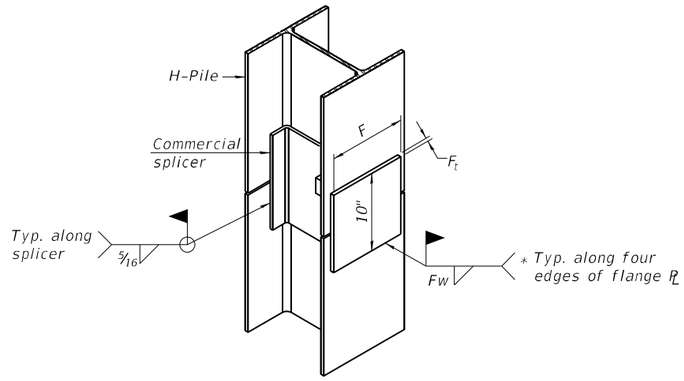


DETAIL B



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



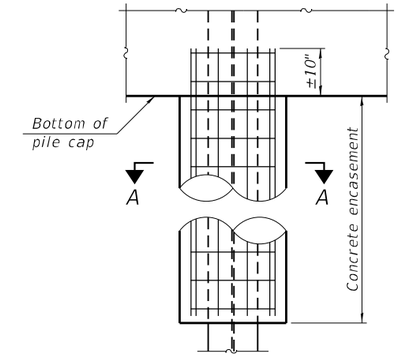
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

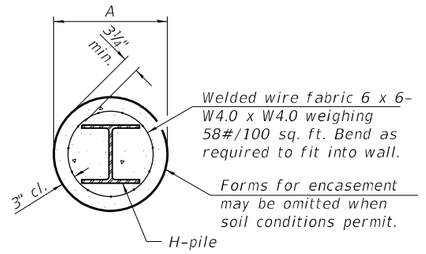
* Interrupt welds ¼" from end of web and/or each flange.

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

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



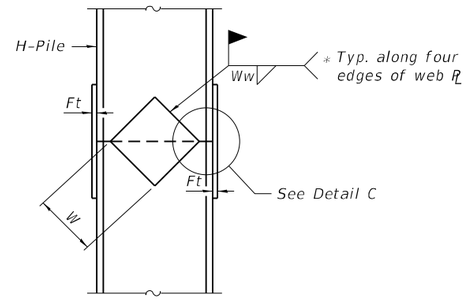
ELEVATION



SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

(when specified)



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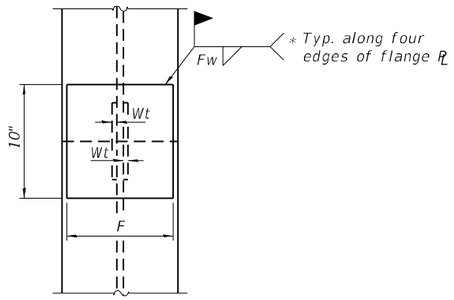
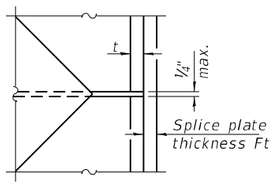


END VIEW



DETAIL C

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1¼"	⅞"	7¾"	⅝"	½"
x102	12½"	1"	¾"	7¾"	⅝"	½"
x89	12½"	⅞"	1 1/16"	7¾"	⅝"	½"
x73	12½"	¾"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	1"	1 1/16"	6½"	⅝"	½"
x74	10"	⅞"	1 1/16"	6½"	⅝"	½"
x63	10"	¾"	½"	6½"	½"	⅜"
x53	10"	¾"	½"	6½"	½"	⅜"
HP 10x57	8"	⅞"	9/16"	5¼"	½"	⅜"
x42	8"	¾"	9/16"	5¼"	½"	⅜"
HP 8x36	6¾"	⅝"	7/16"	4"	½"	⅜"

WELDED PLATE FIELD SPLICE

REVISION	DATE	BY	REMARKS

DESIGNED	AED
CHECKED	MFH
DRAWN	RMG
CHECKED	MFH

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312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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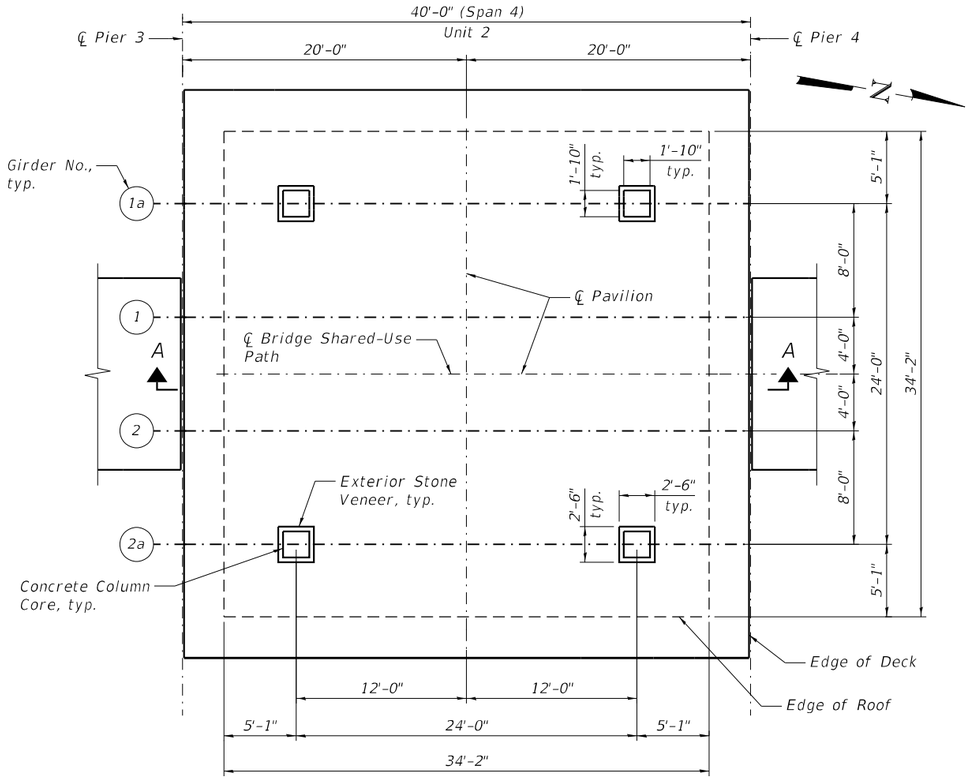
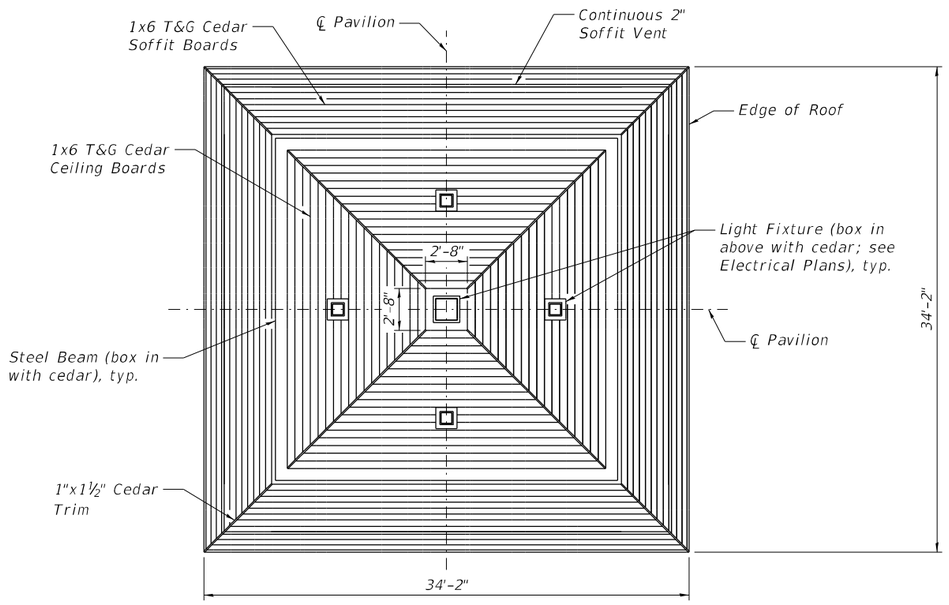
HP-PILE DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-45 OF S-50 SHEETS

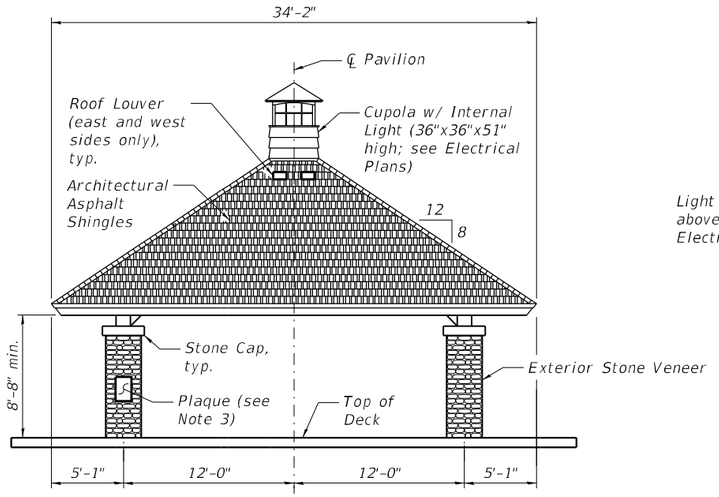
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	148
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			



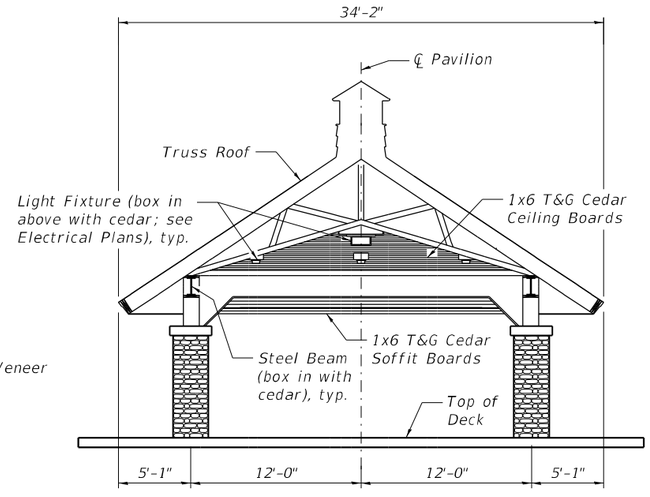
FLOOR PLAN



CEILING PLAN



ELEVATION



SECTION A-A

NOTES:

1. The general appearance of the pavilion shall match the existing open pavilion at Heritage Crossing between Peoria Avenue and Galena Avenue along the south bank of the Rock River. Details shown here are intended to convey the modified geometry for this project, including but not limited to, roof size as well as column size, spacing, and orientation. All materials and finishes shall match the existing pavilion in type, appearance, and durability, and be of the same overall quality. Refer to the Special Provision for Pavilion Structure for additional information.

2. The factored reactions at each column-to-deck connection shall not exceed the following:
   a. Max. Vertical Load = 33.0 kips
   b. Max. Transverse Moment = 14.5 k-ft
   c. Max. Longitudinal Moment = 14.5 k-ft

3. The Contractor shall coordinate with the Owner for placement and installation of a plaque on one of the columns prior to completion of the stone veneer. Cost of this work is included in the cost of Pavilion Structure.

REVISION	DATE	BY	REMARKS

DESIGNED SLV
CHECKED MFH
DRAWN RMG
CHECKED MFH

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PAVILION DETAILS
STRUCTURE NO. 052-0082
SHEET NO. S-46 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	149
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

PROJECT **Project Rock!, Multi-Use Path over Rock River, Dixon, Illinois**

CLIENT **Willett, Hofmann & Associates, Dixon, Illinois**

BORING **1** DATE STARTED **3-27-23** DATE COMPLETED **3-27-23** JOB **L-94,767**

ELEVATIONS
GROUND SURFACE **678.6**
END OF BORING **608.6**

WATER LEVEL OBSERVATIONS
WHILE DRILLING **38.0 '**
AT END OF BORING **30.0 '**
24 HOURS

Station 16+42

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
0								1.2	677.4	FILL - Black clayey TOPSOIL, trace sand, very moist (OL)
		1	SS	5	13.5	1.5*	116	3.0	675.6	FILL - Light brown, brown and black sandy CLAY, little gravel and crushed stone, trace cinders, moist (CL-ML)
5		2	SS	4	19.6	1.75*	102			FILL - Light brown and brown very silty CLAY, little to some sand, trace gravel and crushed stone, moist (CL)
		3	SS	11	11.2	4.5+*	112	6.0	672.6	
		4	SS	9	14.2	4.5+*	104			FILL - Light brown and brown very silty CLAY, some sand, little crushed stone, moist (CL-ML)
10								11.0	667.6	
		5	SS	WOH						Possible Void (Note: "WOH" = Weight of Hammer)
		6	SS	WOH						
15								17.0	661.6	
		7	SS	2	23.2			18.0	660.6	FILL - Brown and light brown silty SAND, little gravel, trace clay and wood fragments, very moist (SM)
		8	SS	12	14.4	4.0*	118	20.5	658.1	FILL - Brown and light brown sandy CLAY, little gravel and crushed stone, moist (CL-ML)
20		9	SS	13	4.2					FILL - Light brown silty SAND and GRAVEL, moist (SM/GM)
								23.0	655.6	
		10	SS	11	6.8					FILL - Brown and dark brown silty SAND, some gravel and crushed stone, moist (SM)
25								26.0	652.6	
		11	SS	8	23.8	1.75*	99	28.0	650.6	FILL - Brown and dark brown silty CLAY, little sand, trace to little gravel, trace organic, moist (CL)
		12	SS	6	20.4	2.0*	101			▽ FILL - Dark brown and brown very silty CLAY, trace sand and organic, moist (CL)
30								33.0	645.6	
		13	SS	6	20.5	1.75*	103			FILL - Light brown and dark brown very silty CLAY, trace sand and organic, moist (CL)
35								38.0	640.6	▼
		14	SS	6	9.4					Loose brown clayey SAND, some gravel, very moist to wet (SC)
40										End of Boring at 70.0'

TSC_EOB 94767.GPJ TSC_ALL.GDT 5/24/23

DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT **Project Rock!, Multi-Use Path over Rock River, Dixon, Illinois**

CLIENT **Willett, Hofmann & Associates, Dixon, Illinois**

BORING **1** DATE STARTED **3-27-23** DATE COMPLETED **3-27-23** JOB **L-94,767**

ELEVATIONS
GROUND SURFACE **678.6**
END OF BORING **608.6**

WATER LEVEL OBSERVATIONS
WHILE DRILLING **38.0 '**
AT END OF BORING **30.0 '**
24 HOURS

Station 16+42

DISTANCE BELOW SURFACE IN FEET	LENGTH RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40										Loose brown clayey SAND, some gravel, very moist to wet (SC)
								43.0	635.6	
		A 15 R	SS	8	29.2	1.25*		44.0	634.6	Stiff light brown and bluish-gray very silty CLAY, little sand, trace to little gravel, very moist (CL)
45										
		16	SS	49						
50										
		17	SS	31						
55										Loose to dense light brown SAND and GRAVEL, occasional Cobbles, trace silt, wet (SP-SM/GP-GM)
		18	SS	27						
60										
		19	SS	24						
65										
		20	SS	32						
70										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
75										
80										End of Boring at 70.0'

TSC_EOB 94767.GPJ TSC_ALL.GDT 5/24/23

DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

c:\pwordir\benesch projects\projects\d017193\BORINGS (1 OF 2).dgn
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7/22/2024

REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

SOIL BORING LOGS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-47 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	150
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

PROJECT **Project Rock!, Multi-Use Path over Rock River, Dixon, Illinois**

CLIENT **Willett, Hofmann & Associates, Dixon, Illinois**

BORING **2** DATE STARTED **3-22-23** DATE COMPLETED **3-22-23** JOB **L-94,767**

ELEVATIONS
GROUND SURFACE **683.2**
END OF BORING **608.2**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **Dry to 23.5'**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS

Station 26+75

DISTANCE BELOW SURFACE IN FEET

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS		6	8.6			3.0	680.2	FILL - Black sandy, clayey TOPSOIL very moist (OL)
2	SS		7	15.0	1.0*	110			FILL - Brown and light brown sandy CLAY, little gravel and dolomite fragments and silty SAND, very moist (CL/SM)
3	SS		8	12.7	1.5*	110			
4	SS		16	13.9	2.75*	121	10.5	672.7	
5	SS		15	12.6	4.5*	117			Medium dense brown to light brown clayey SILT, little sand, trace gravel and dolomite fragments, moist (ML) (Probable Fill)
6	SS		16	13.2	4.5+*	114			
7	SS		18	8.9	4.5+*	124			
8	SS		19	13.9	4.5+*	115			
9	SS		13	18.6	4.25*		23.0	660.2	Medium dense light brown sandy SILT and silty SAND, some dolomite fragments, moist (ML/SM) (Probable Fill)
10	SS		22	9.4			26.0	657.2	
11	SS		6						Loose brown SAND, little gravel, trace silt, wet (SP-SM)
12	SS		7						
13	SS		8						
14	SS		8	13.1			37.0	646.2	Loose brown silty SAND, little gravel, trace clay, wet (SM)

End of Boring at 75.0'

DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

Page **1 of 2**

TSC_EOB 9476?.GPJ TSC_ALL.GDT 5/24/23

PROJECT **Project Rock!, Multi-Use Path over Rock River, Dixon, Illinois**

CLIENT **Willett, Hofmann & Associates, Dixon, Illinois**

BORING **2** DATE STARTED **3-22-23** DATE COMPLETED **3-22-23** JOB **L-94,767**

ELEVATIONS
GROUND SURFACE **683.2**
END OF BORING **608.2**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **Dry to 23.5'**
▽ AT END OF BORING **N/A - wash boring**
▼ 24 HOURS

Station 26+75

DISTANCE BELOW SURFACE IN FEET

SAMPLE NO.	SAMPLE TYPE	LENGTH RECOVERY	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
							43.0	640.2	Loose brown silty SAND, little gravel, trace clay, wet (SM)
15	SS		3	24.6	0.5*				Soft to medium stiff brown sandy CLAY, trace gravel with clayey sand seams, very moist (CL/SC)
							48.0	635.2	
16	SS		13						Medium dense to very dense light brown SAND and GRAVEL, occasional Cobbles, wet (SP/GP)
17	SS		50/1"						
							57.0	626.2	
18	SS		50/2"						
19	SS		20						Very dense to loose light brown silty SAND and GRAVEL with dolomite fragments, wet (SM/GM) (possible weathered rock)
20	SS		8						

End of Boring at 75.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

DRILL RIG NO. **334**

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

Page **2 of 2**

TSC_EOB 9476?.GPJ TSC_ALL.GDT 5/24/23

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REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

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Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

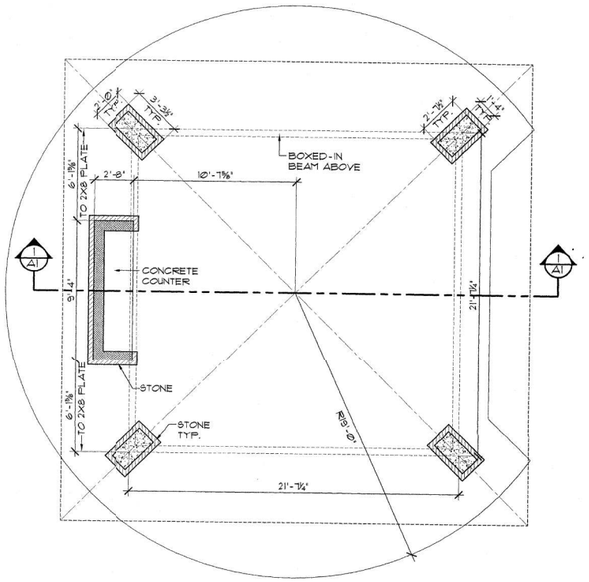
DIXON Here to Serve

SOIL BORING LOGS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-48 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	151
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

85762

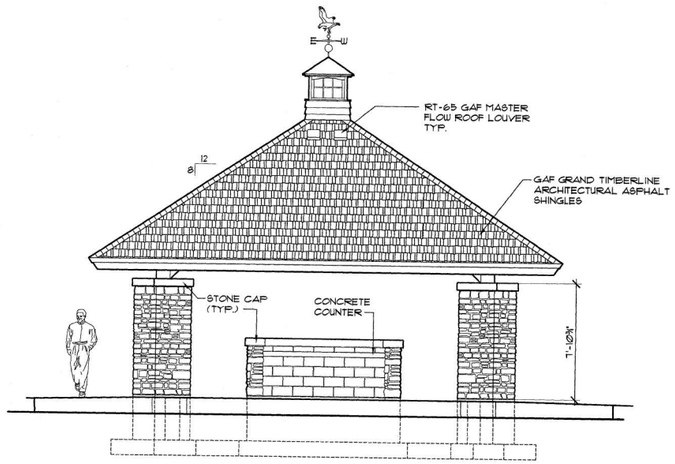
FOR INFORMATION ONLY



FLOOR PLAN

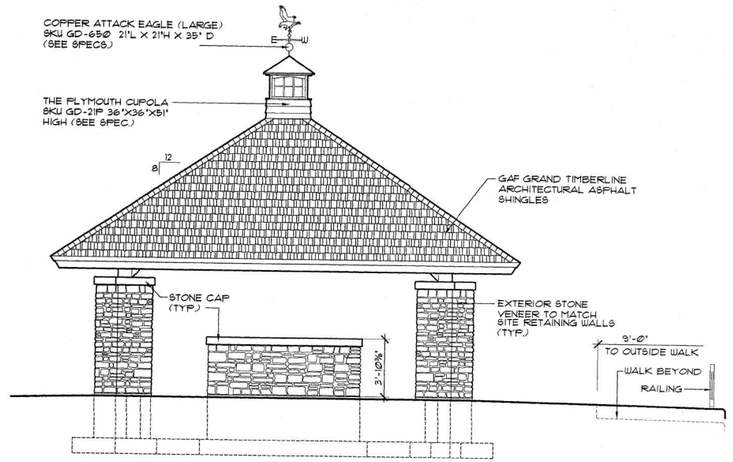
SCALE: ¼"=1'-Ø"

N



NORTH ELEVATION

SCALE: ¼"=1'-Ø"



SOUTH ELEVATION

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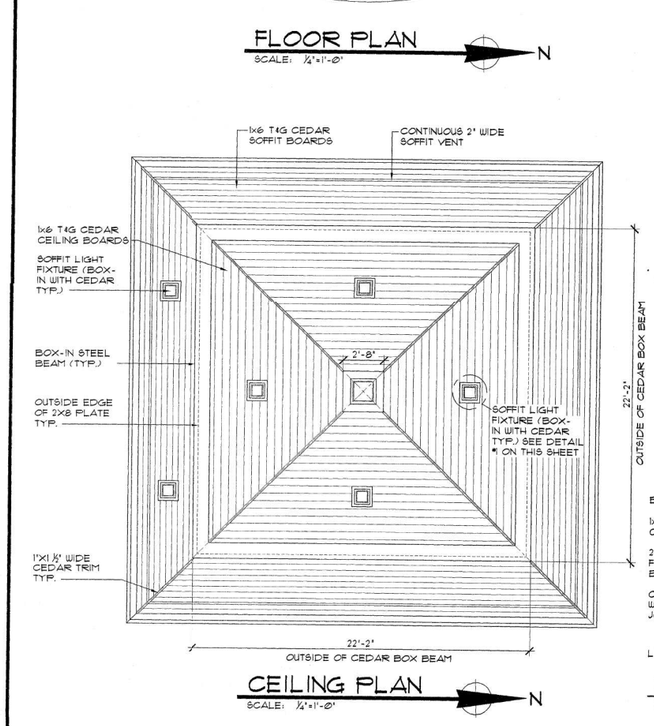
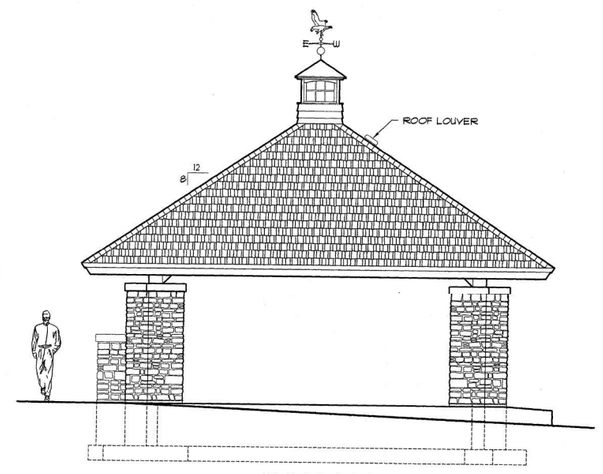


CEILING PLAN

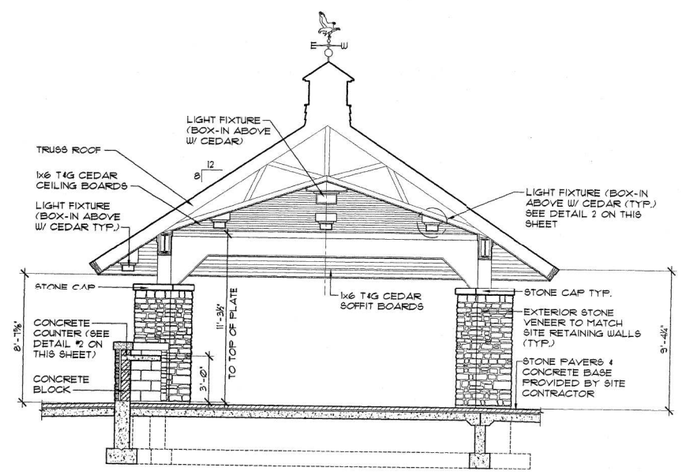
SCALE: ¼"=1'-Ø"

N



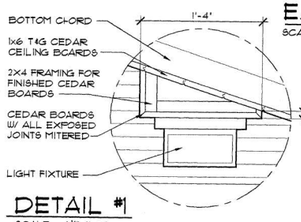
EAST ELEVATION

SCALE: ¼"=1'-Ø"



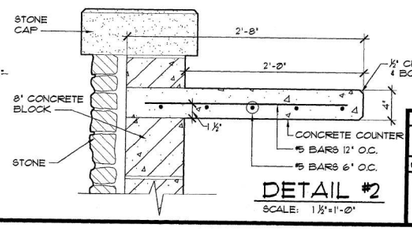
A1 SECTION

SCALE: ¼"=1'-Ø"



DETAIL #1

SCALE: 1½"=1'-Ø"



DETAIL #2

SCALE: 1½"=1'-Ø"

DRAWN BY:	REVISED		OPEN PAVILLION PLAN & ELEVATIONS	JOHN R. McLANE ■ ARCHITECT ■	SHEET A1
AJL	1			212 S. OTTAWA AVE. DIXON, ILLINOIS 61021 PHONE 815.284.6056 FAX 815.284.7717	OF 1
CHECKED BY:	2				DATE:
JRM	3		HERITAGE CROSSING PAVILIONS DIXON, ILLINOIS		Ø5/23/Ø8
	4				
	5				

REVISION	DATE	BY	REMARKS	DESIGNED AED
				CHECKED MFH
				DRAWN RMG
				CHECKED MFH

benesch — Alfred Benesch & Company, 35 West Wacker Drive, Suite 3300, Chicago, Illinois 60601, 312-565-0450, Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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EXISTING HERITAGE CROSSING PAVILION DETAILS (1 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-49 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	152
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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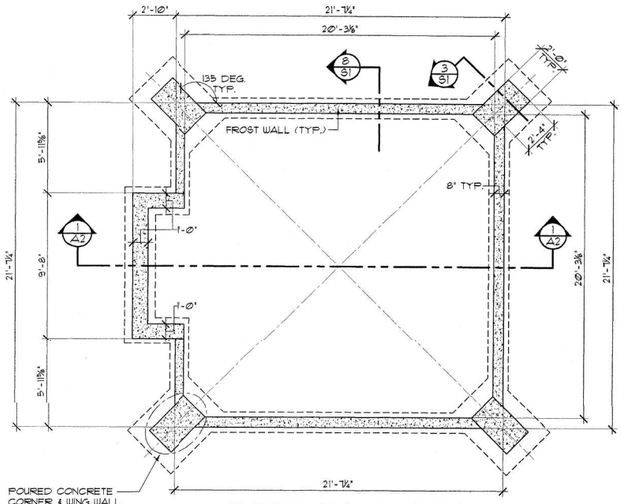
85762

FOR INFORMATION ONLY

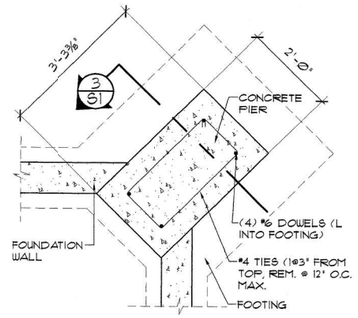


POURED CONCRETE CORNER & WING WALL (SEE DETAIL#1 ON THIS SHEET)

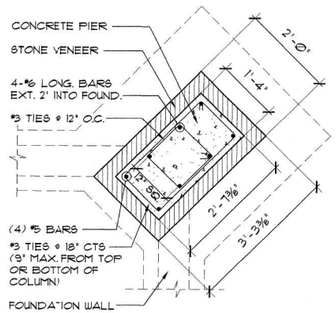
FOUNDATION PLAN
(OPEN PAVILION)

SCALE: ¼"=1'-0"

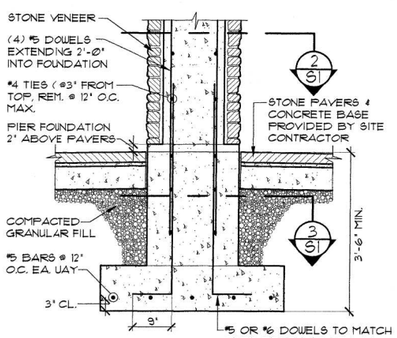
NOTE: FOOTINGS, FOUNDATIONS AND RELATED REINFORCING ARE TO BE PROVIDED BY THE SITEWORK CONTRACTOR.



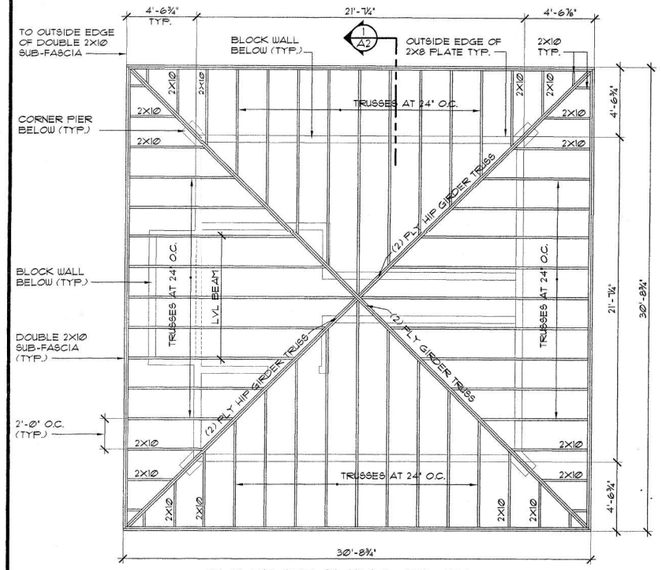
1/S1 FOUNDATION PIER
SCALE: ¾"=1'-0"



2/S1 CONCRETE COLUMN
SCALE: ¾"=1'-0"

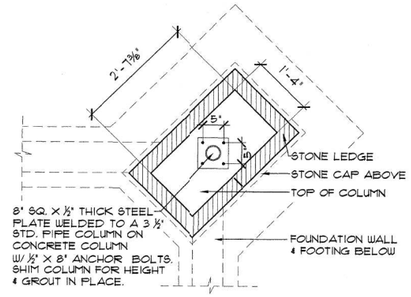


3/S1 CONCRETE COLUMN
SCALE: ¾"=1'-0"

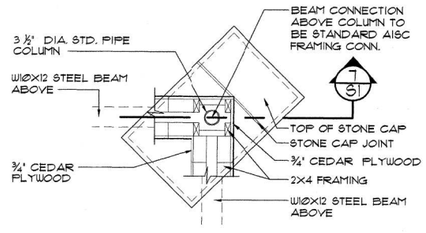


ROOF FRAMING PLAN
(OPEN PAVILION)

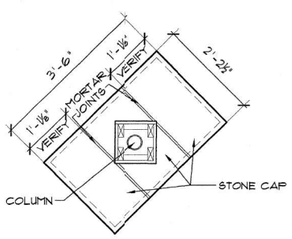
SCALE: ⅛"=1'-0"



4/S1 PLATE @ TOP OF PIER COLUMN
SCALE: ¾"=1'-0"

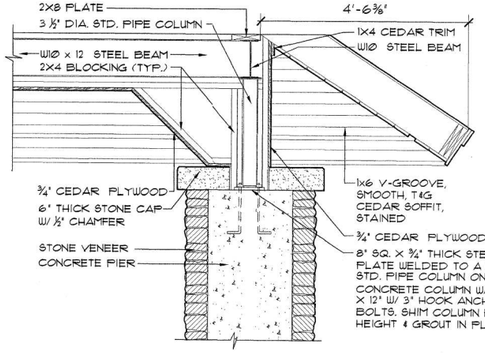


5/S1 BOX COLUMN DETAIL
SCALE: ¾"=1'-0"

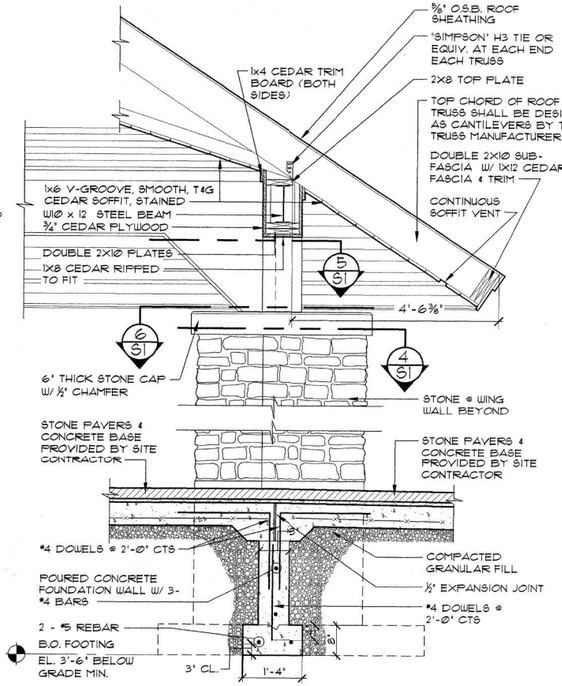


NOTE: STONE CAP IS 6" THICK W/ ½" CHAMFER

6/S1 STONE CAP
SCALE: ¾"=1'-0"



7/S1 SECTION THRU COLUMN & PIER
SCALE: ¾"=1'-0"



8/S1 TYPICAL WALL SECTION
SCALE: ¾"=1'-0"

DRAWN BY:	REVISED		OPEN PAVILION STRUCTURAL PLANS & DETAILS	JOHN R. McLANE ■ ARCHITECT ■ 212 S. OTTAWA AVE. DIXON, ILLINOIS 61021 PHONE 815.284.6056 FAX 815.284.7717	SHEET S1 OF 1
AJL	1				
CHECKED BY:	2				
JRM	3		HERITAGE CROSSING PAVILIONS		DATE: 05/23/08
	4				
	5		DIXON, ILLINOIS		

c:\pwordir\benesch projects\projects\d0171931\EXISTING PAVILION (2 OF 2).dgn
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REVISION	DATE	BY	REMARKS

DESIGNED AED
CHECKED MFH
DRAWN RMG
CHECKED MFH

benesch
Alfred Benesch & Company
35 West Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10869.00

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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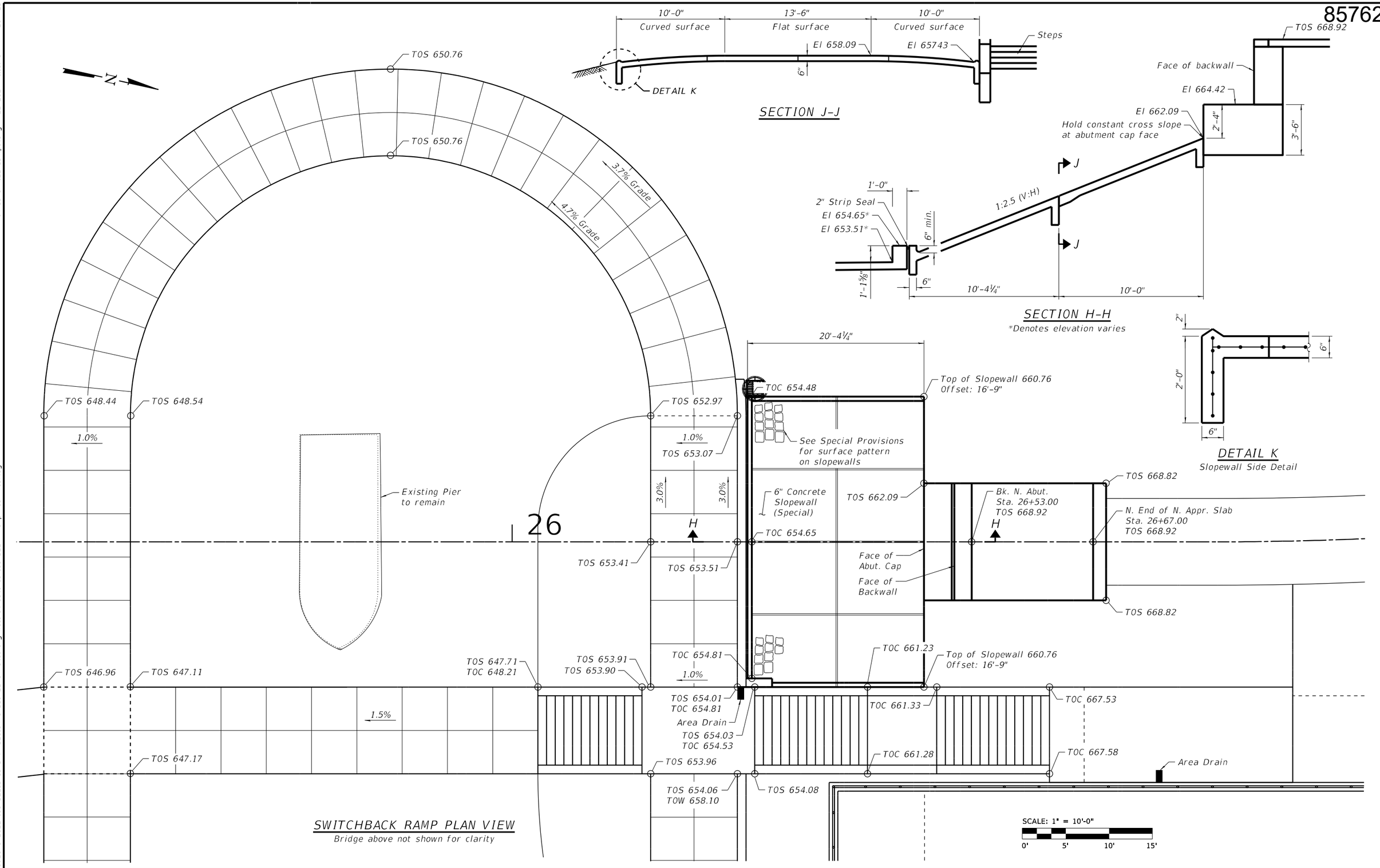
EXISTING HERITAGE CROSSING PAVILION DETAILS (2 OF 2)
STRUCTURE NO. 052-0082
SHEET NO. S-50 OF S-50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	153
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



SWITCHBACK RAMP PLAN VIEW

Bridge above not shown for clarity

SECTION J-J

SECTION H-H

*Denotes elevation varies

DETAIL K

Slopewall Side Detail

REVISION	DATE	BY	REMARKS

DESIGNED RB
DRAWN RDA
REVIEWED
APPROVED

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: # 184-000918

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2024

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RAMP PLAN VIEW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	154
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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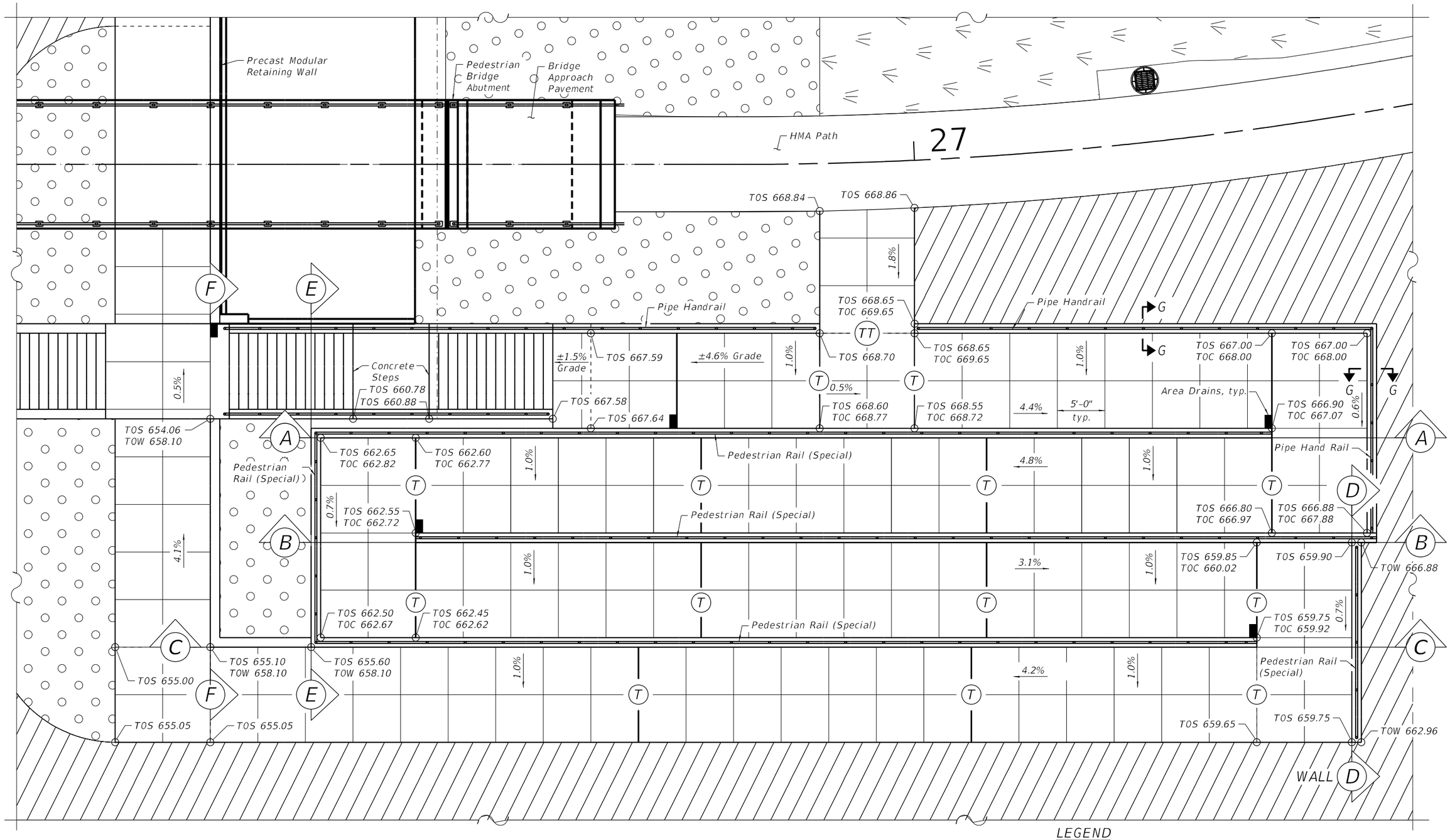
85762



N

SWITCHBACK RAMP PLAN

SCALE: 1" = 10'-0"

0' 5' 10' 15'

LEGEND

- (T) Designates Transverse Expansion Joint
- (TT) Designates Tied Transverse Construction Joint
- (A) Wall Elevation Views

REVISION	DATE	BY	REMARKS

DESIGNED RB
DRAWN RDA
REVIEWED ---
APPROVED ---

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RETAINING WALL PLAN VIEW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	155
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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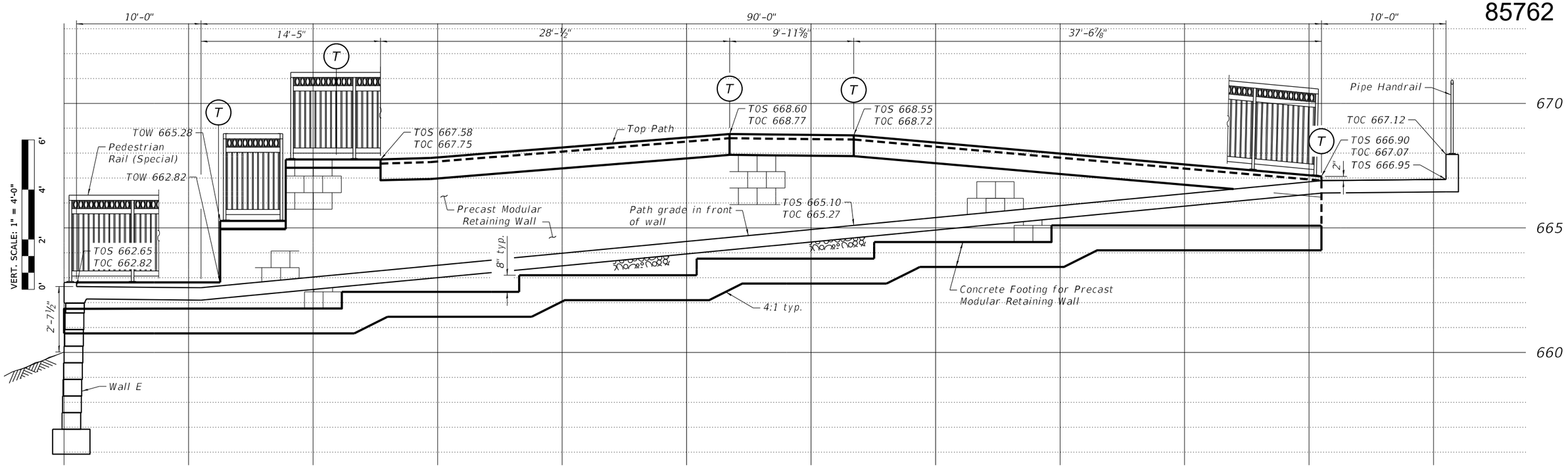
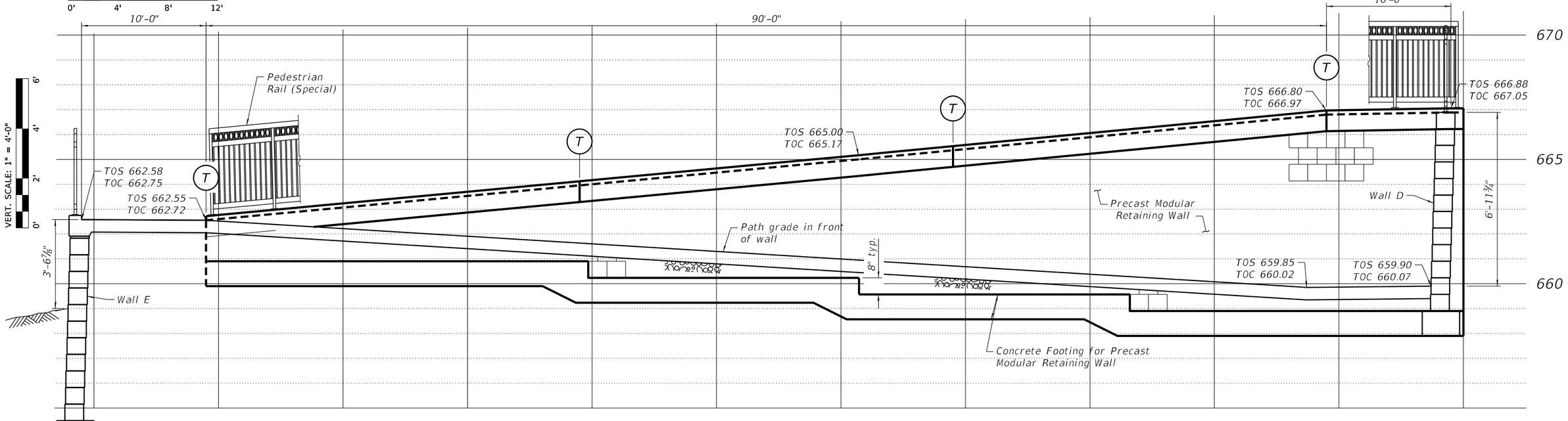


HORIZ. SCALE: 1" = 8'-0"
0' 4' 8' 12'

WALL A ELEVATION



HORIZ. SCALE: 1" = 8'-0"
0' 4' 8' 12'

WALL B ELEVATION

REVISION	DATE	BY	REMARKS

DESIGNED	RB
DRAWN	RDA
REVIEWED	---
APPROVED	---

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ENGINEERING ARCHITECTURE LAND SURVEYING
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CITY OF DIXON
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WALL A & B DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	156
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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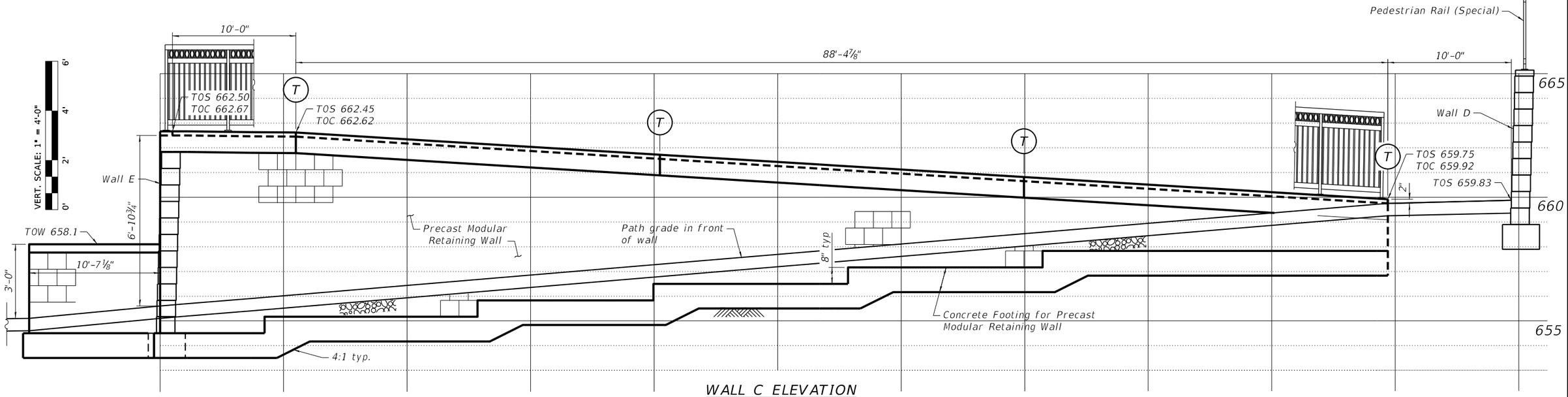
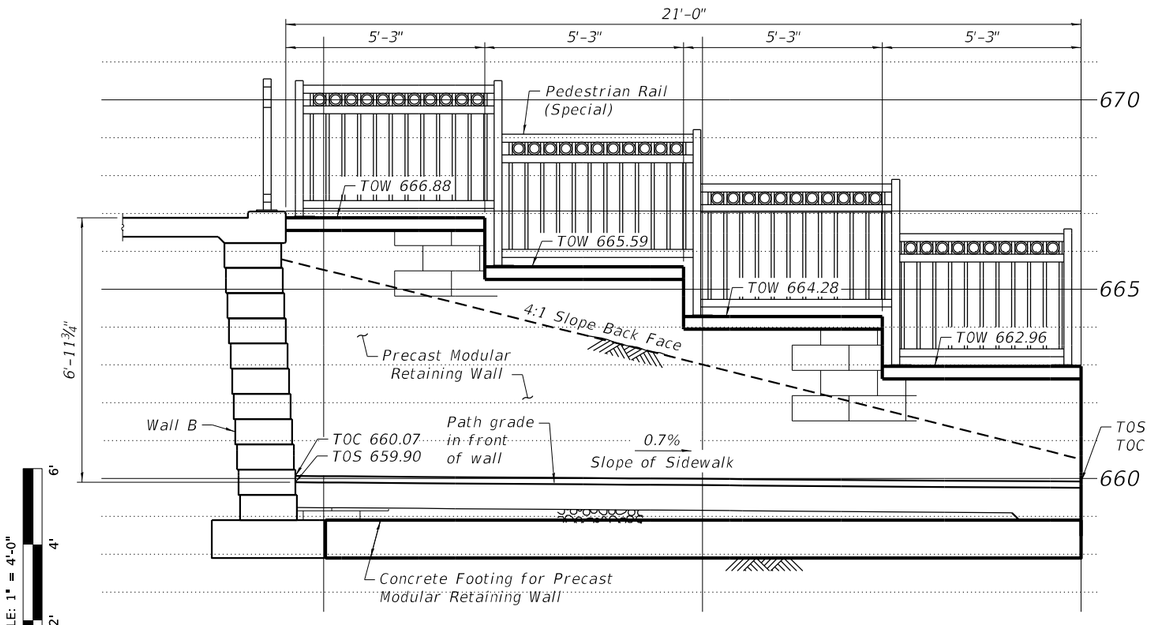
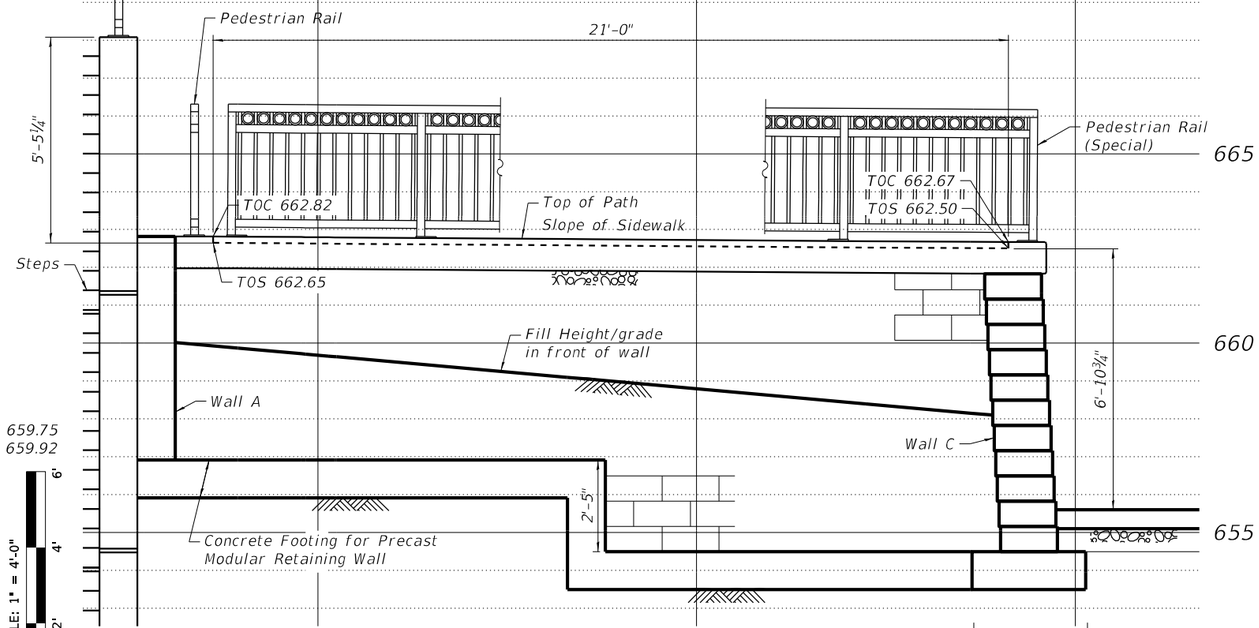


WALL C ELEVATION



WALL D ELEVATION



WALL E ELEVATION

REVISION	DATE	BY	REMARKS

DESIGNED RB
DRAWN RDA
REVIEWED ---
APPROVED ---

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
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WALL C, D, & E DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	157
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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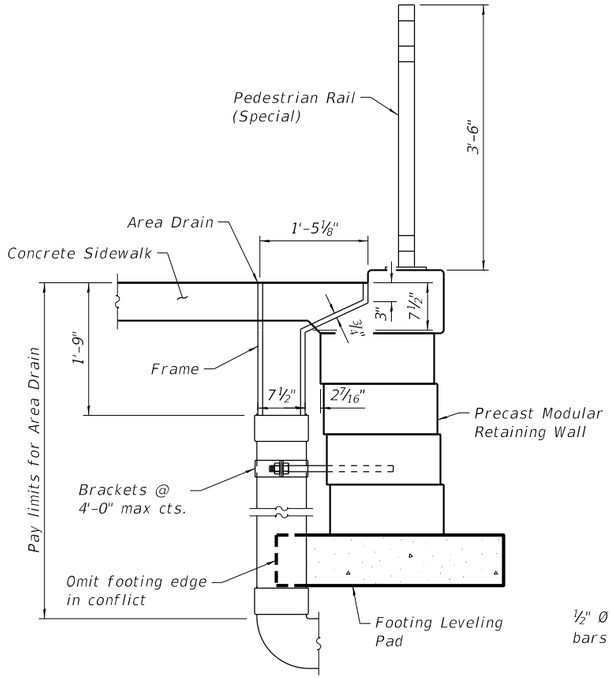
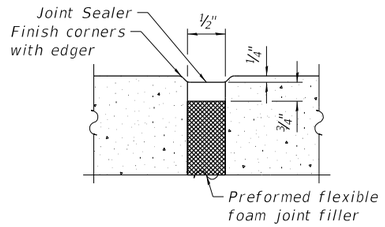
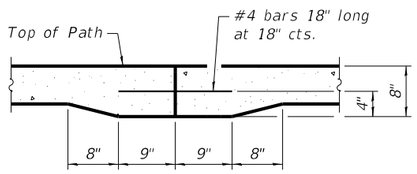


AREA DRAIN DETAIL

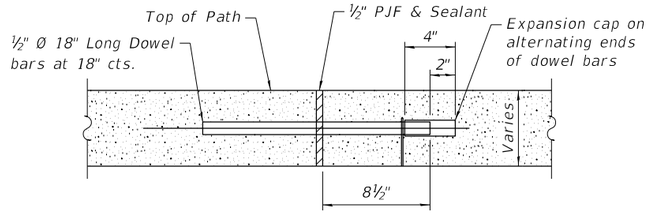


SEALING DETAIL



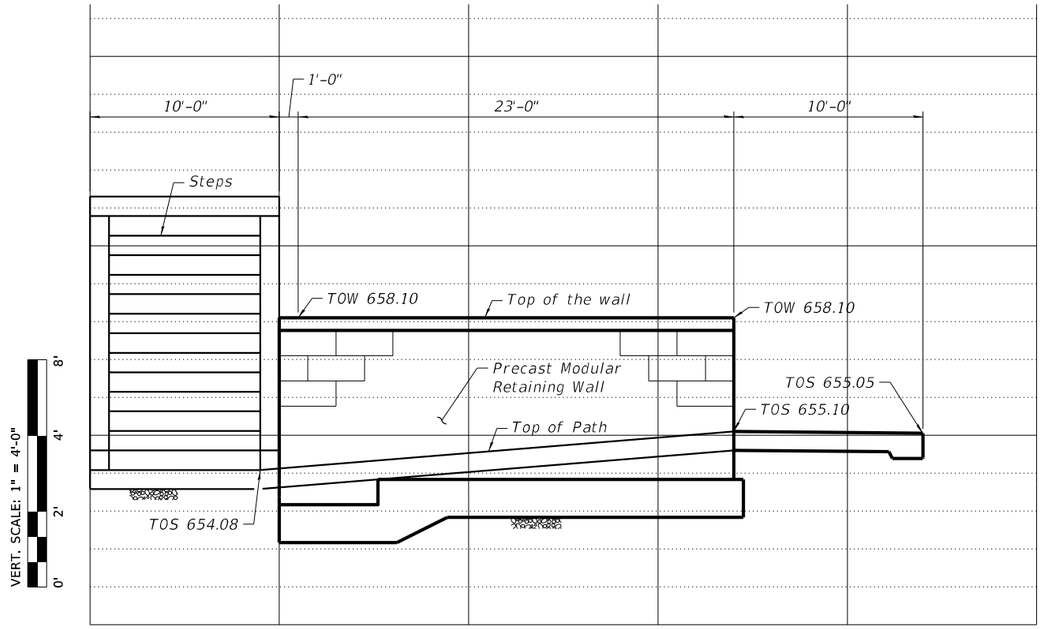
TIED TRANSVERSE CONSTRUCTION JOINT

NOTE:
Cost of furnishing and installing dowels considered incidental to Portland Cement Sidewalk 6 inch, Special

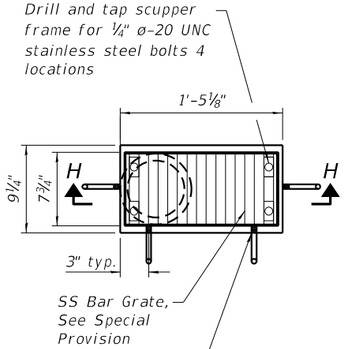


TRANSVERSE EXPANSION JOINT

NOTE:
Cost of furnishing and installing dowels considered incidental to Portland Cement Sidewalk 6 inch, Special

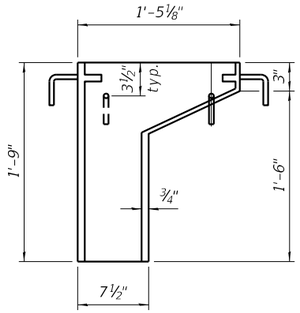


WALL F ELEVATION

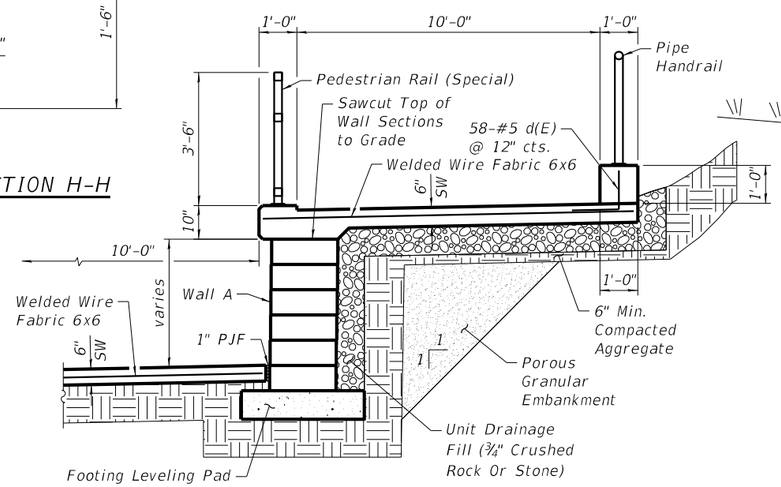


AREA DRAIN FRAME PLAN

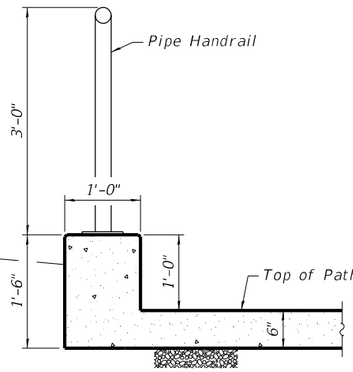
(See plan view for anchor locations to avoid transverse joints)



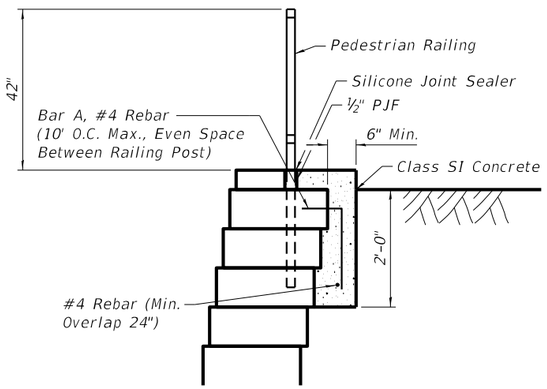
FRAME SECTION H-H



TYPICAL SECTION THRU PATH



SECTION G-G



PIPE HANDRAIL - FOR RETAINING WALL

(Option 2 - Block depth 12" to 19")

TOTAL BILL OF MATERIAL

Switchback Ramps, Retaining Walls and Slopewalls

ITEM	UNIT	TOTAL
Pipe Handrail	Foot	170
Precast Modular Retaining Wall	Sq. Ft.	1,121
Slope Wall (Special)	Sq. Yd.	82
Anti-Graffiti Coating	Sq. Ft.	2,057
Portland Cement Concrete Sidewalk, 6 Inch Special	Sq. Ft.	5,525
Staining Concrete Structures	Sq. Ft.	695
Pedestrian Rail (Special)	Foot	343

REVISION	DATE	BY	REMARKS

DESIGNED SAB
DRAWN RDA
REVIEWED ---
APPROVED ---

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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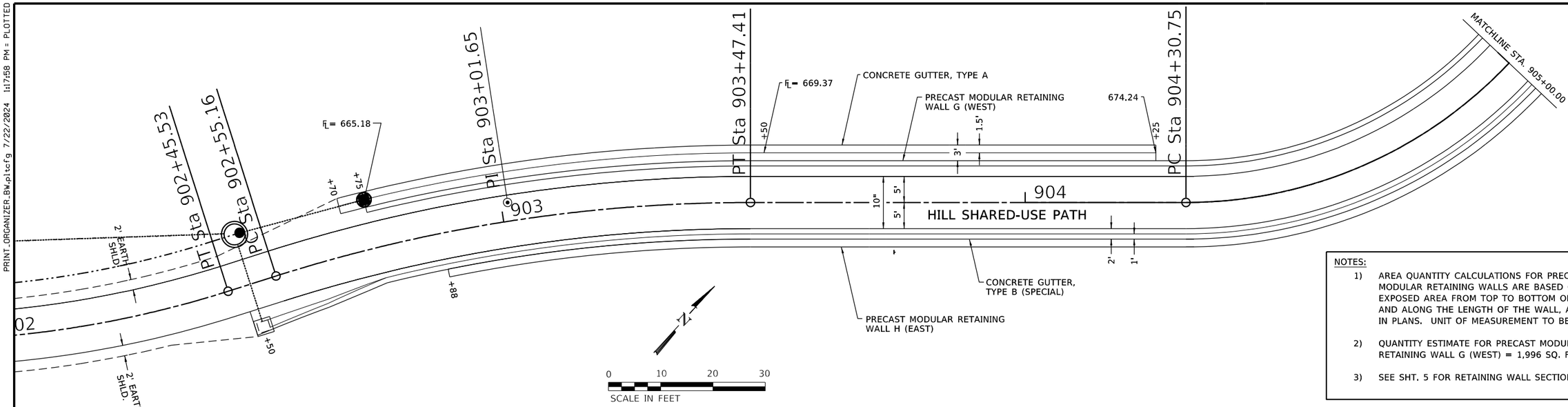
WALL F & RAIL DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	158
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

85762

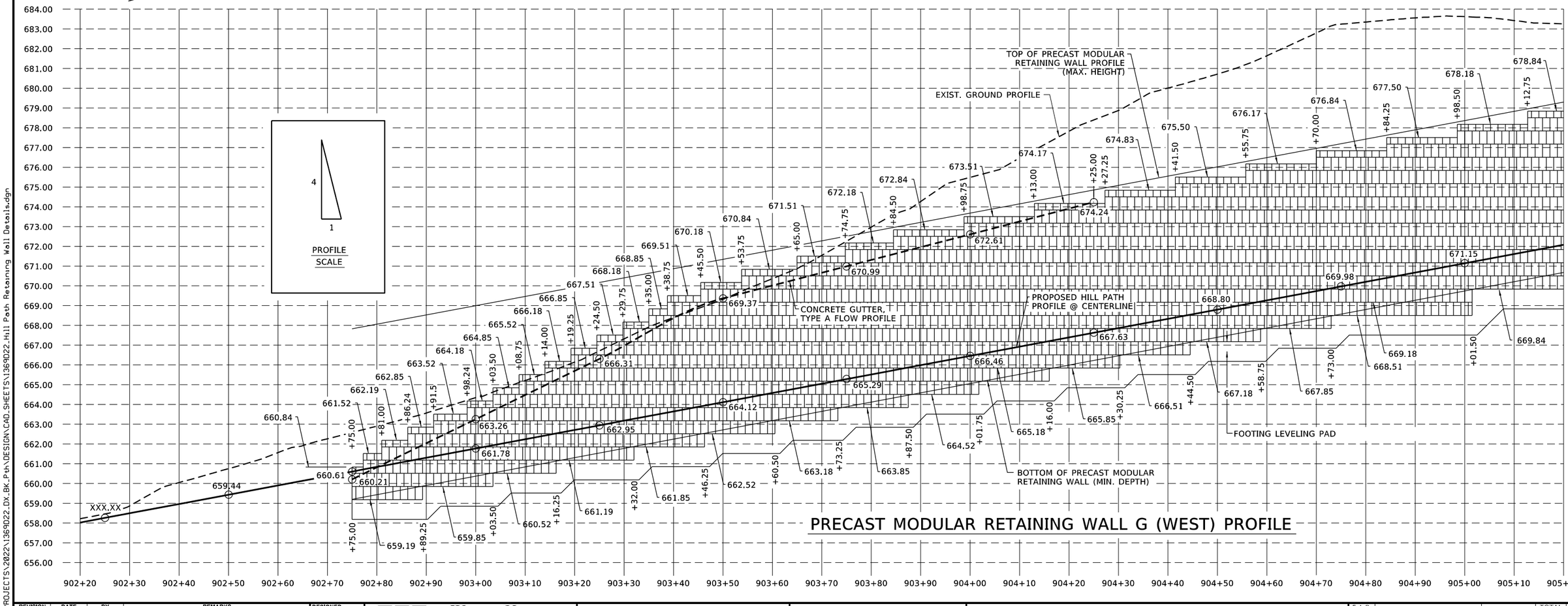


NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL G (WEST) = 1,996 SQ. FT.

3) SEE SHT. 5 FOR RETAINING WALL SECTIONS AND DETAILS.



PRECAST MODULAR RETAINING WALL G (WEST) PROFILE

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

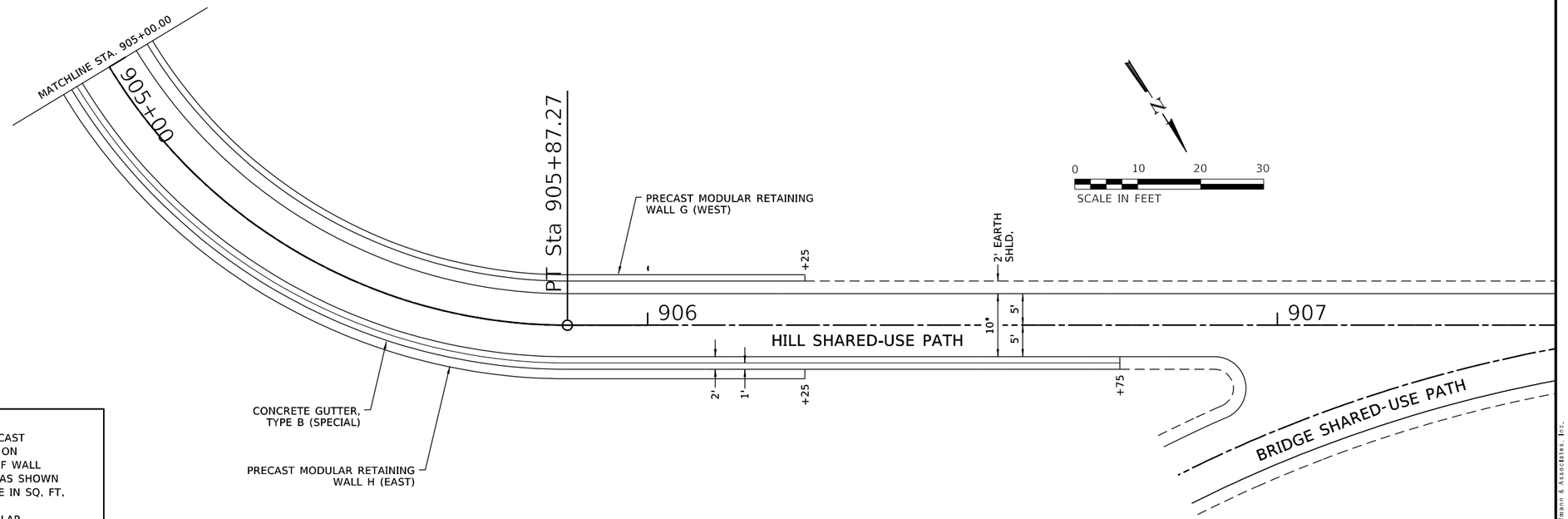
DIXON Here to Serve

WALL G & H DETAILS

SHEET 1 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	159
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

85762

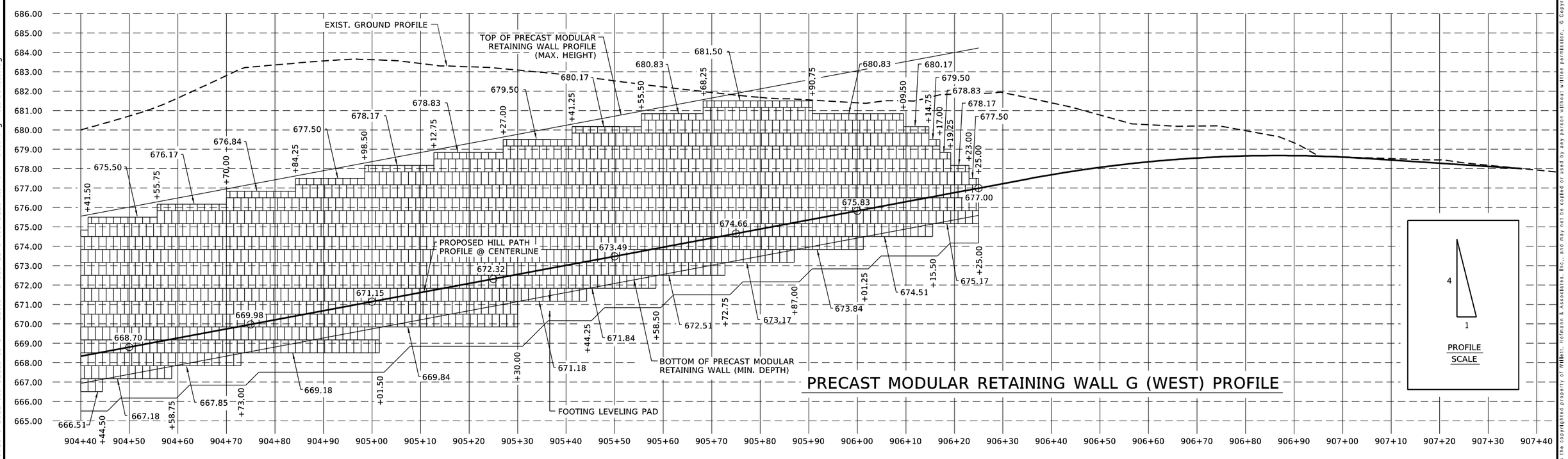


NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL G (WEST) = 1,996 SQ. FT.

3) SEE SHT. 5 FOR RETAINING WALL SECTIONS AND DETAILS.



PRECAST MODULAR RETAINING WALL G (WEST) PROFILE

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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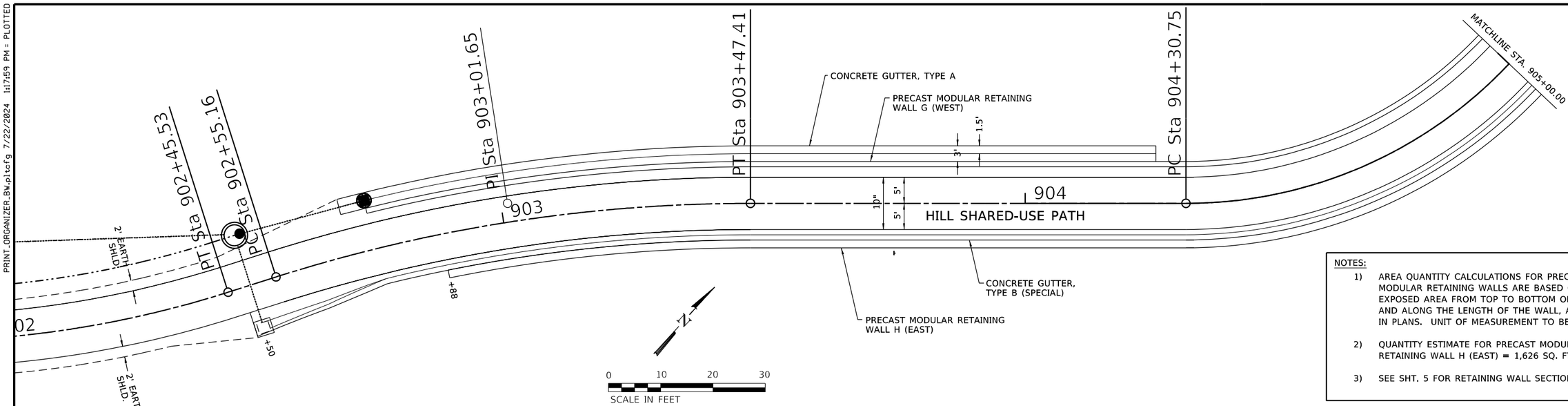
WALL G & H DETAILS

SHEET 2 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	160
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

85762

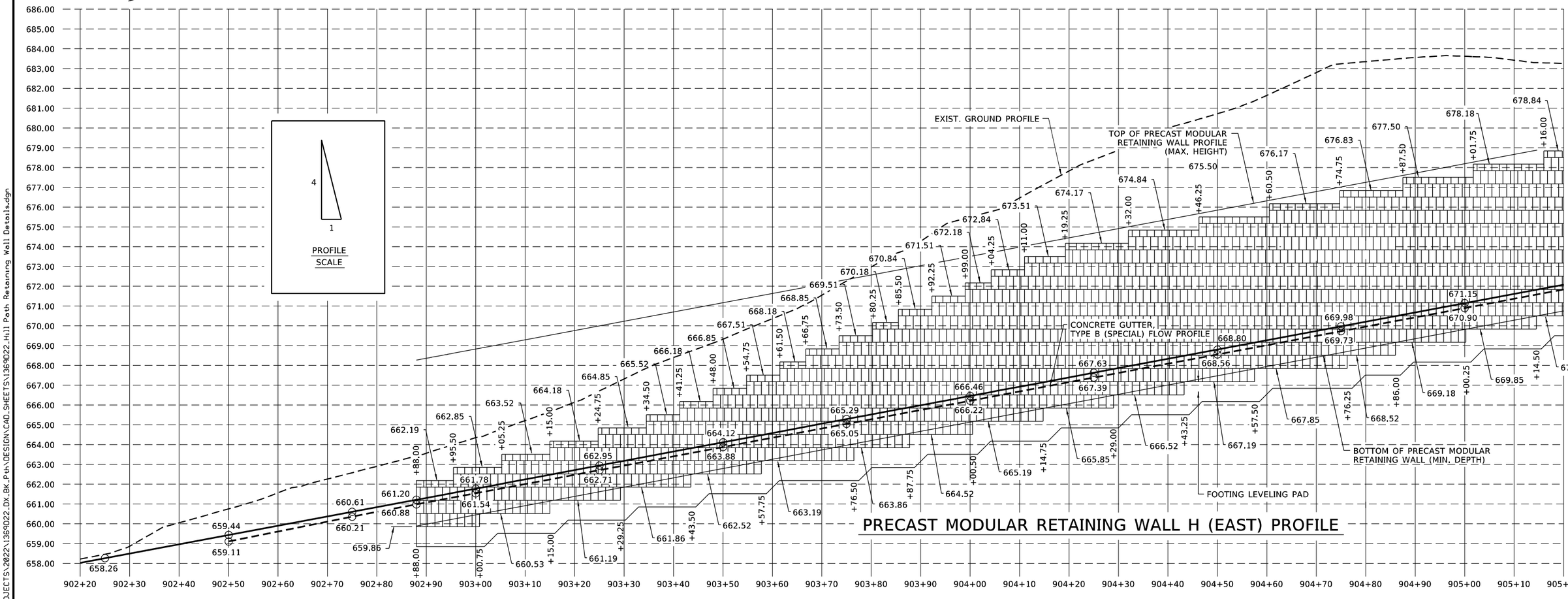


NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL H (EAST) = 1,626 SQ. FT.

3) SEE SHT. 5 FOR RETAINING WALL SECTIONS AND DETAILS.



PRECAST MODULAR RETAINING WALL H (EAST) PROFILE

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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WALL G & H DETAILS

SHEET 3 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	161
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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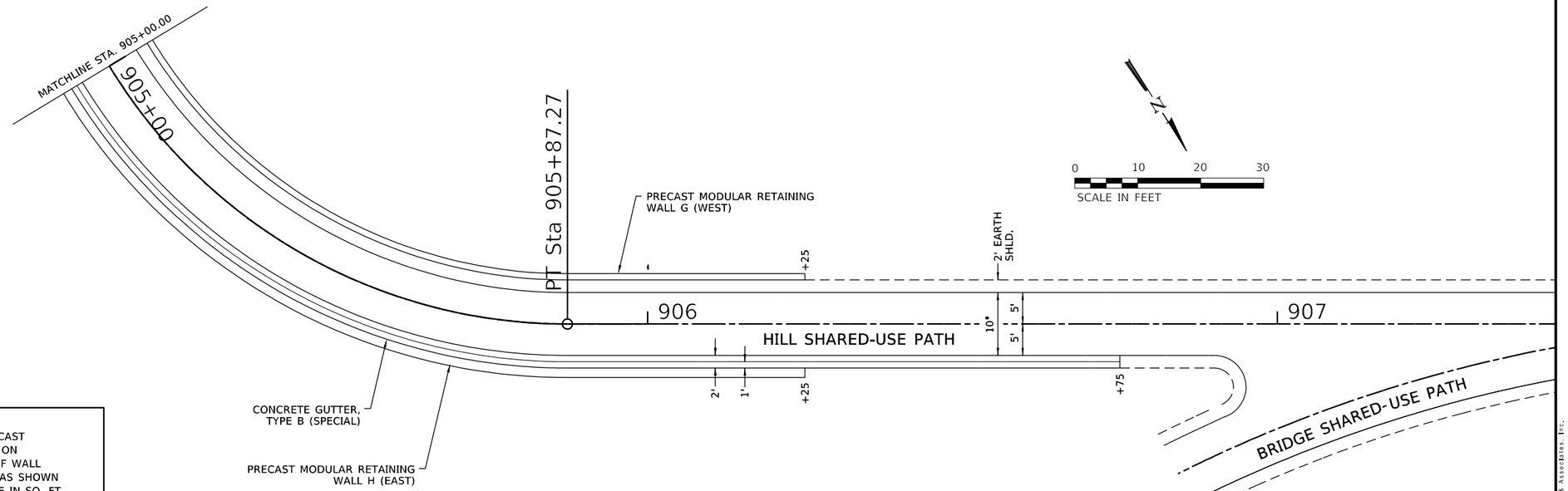
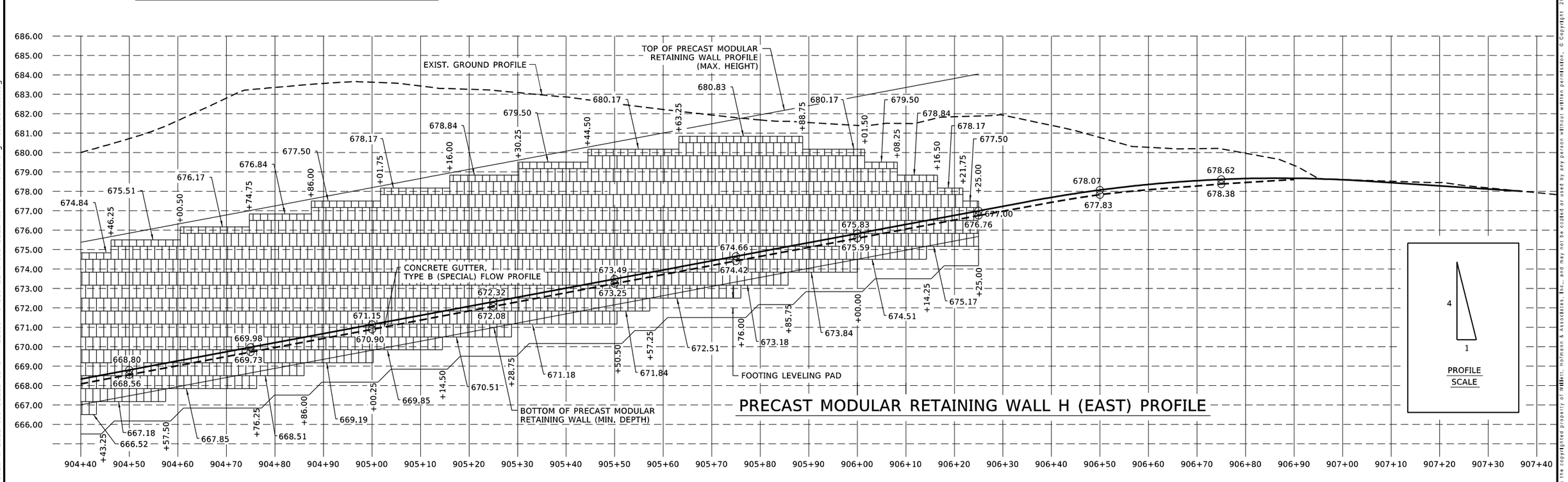


NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL H (EAST) = 1,626 SQ. FT.

3) SEE SHT. 5 FOR RETAINING WALL SECTIONS AND DETAILS.



PRECAST MODULAR RETAINING WALL H (EAST) PROFILE

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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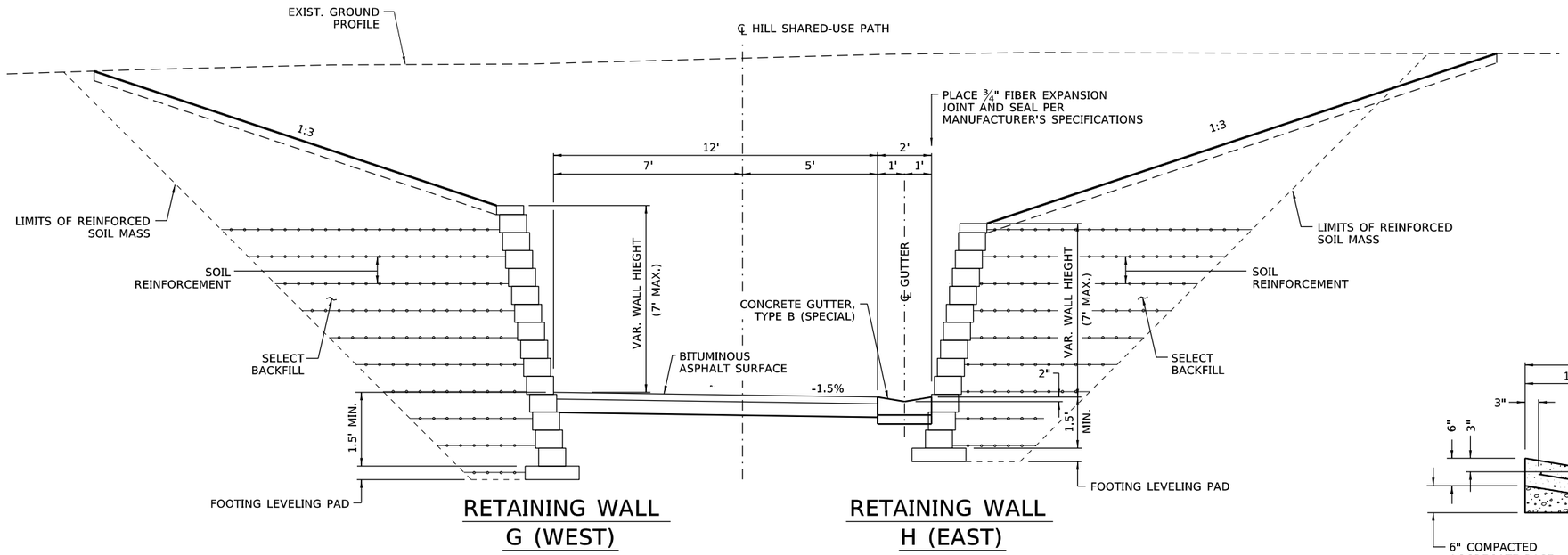
WALL G & H DETAILS

SHEET 4 OF 5

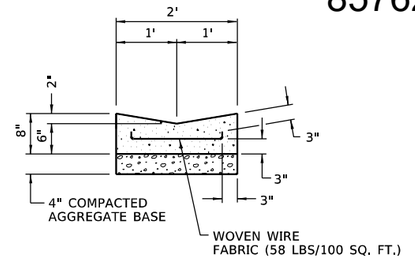
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	162
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		



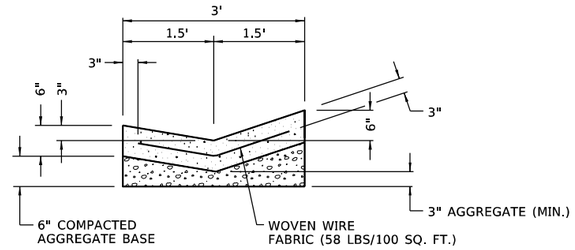
RETAINING WALL G (WEST)

RETAINING WALL H (EAST)

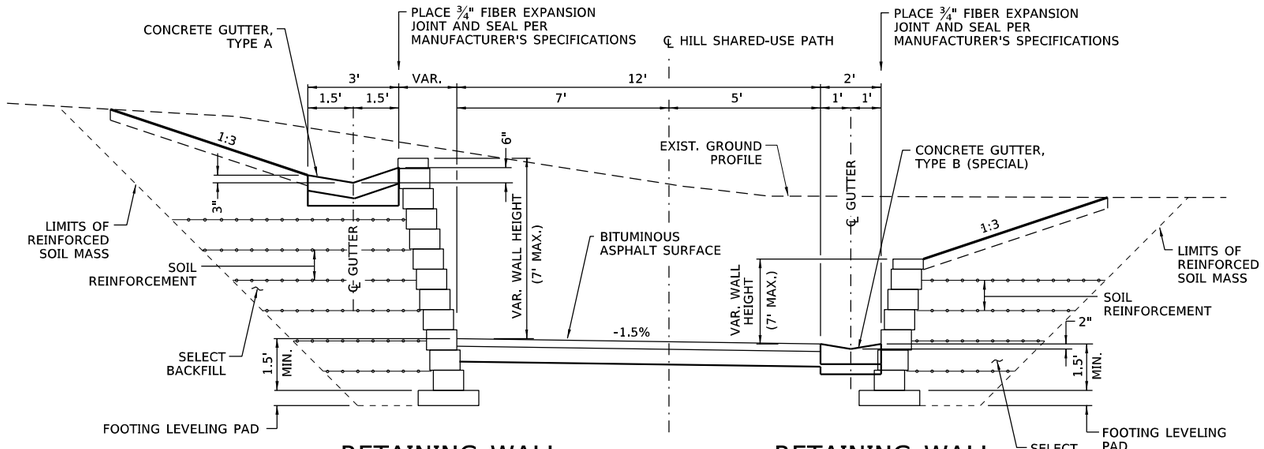
STA. 904+25.00 TO 906+25.00
LOOKING NORTH



CONCRETE GUTTER, TYPE B (SPECIAL) DETAIL



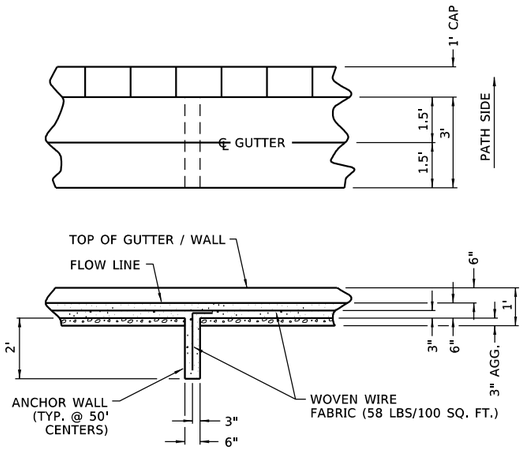
CONCRETE GUTTER, TYPE A DETAIL



RETAINING WALL G (WEST)

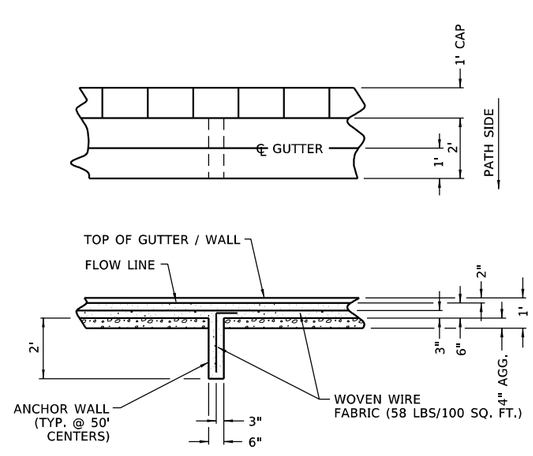
RETAINING WALL H (EAST)

STA. 902+88.00 TO 904+25.00
LOOKING NORTH



CONCRETE GUTTER, TYPE A ANCHOR WALL DETAIL

(SECTION THRU ℄ GUTTER)



CONCRETE GUTTER, TYPE B (SPECIAL) ANCHOR WALL DETAIL

(SECTION THRU ℄ GUTTER)

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

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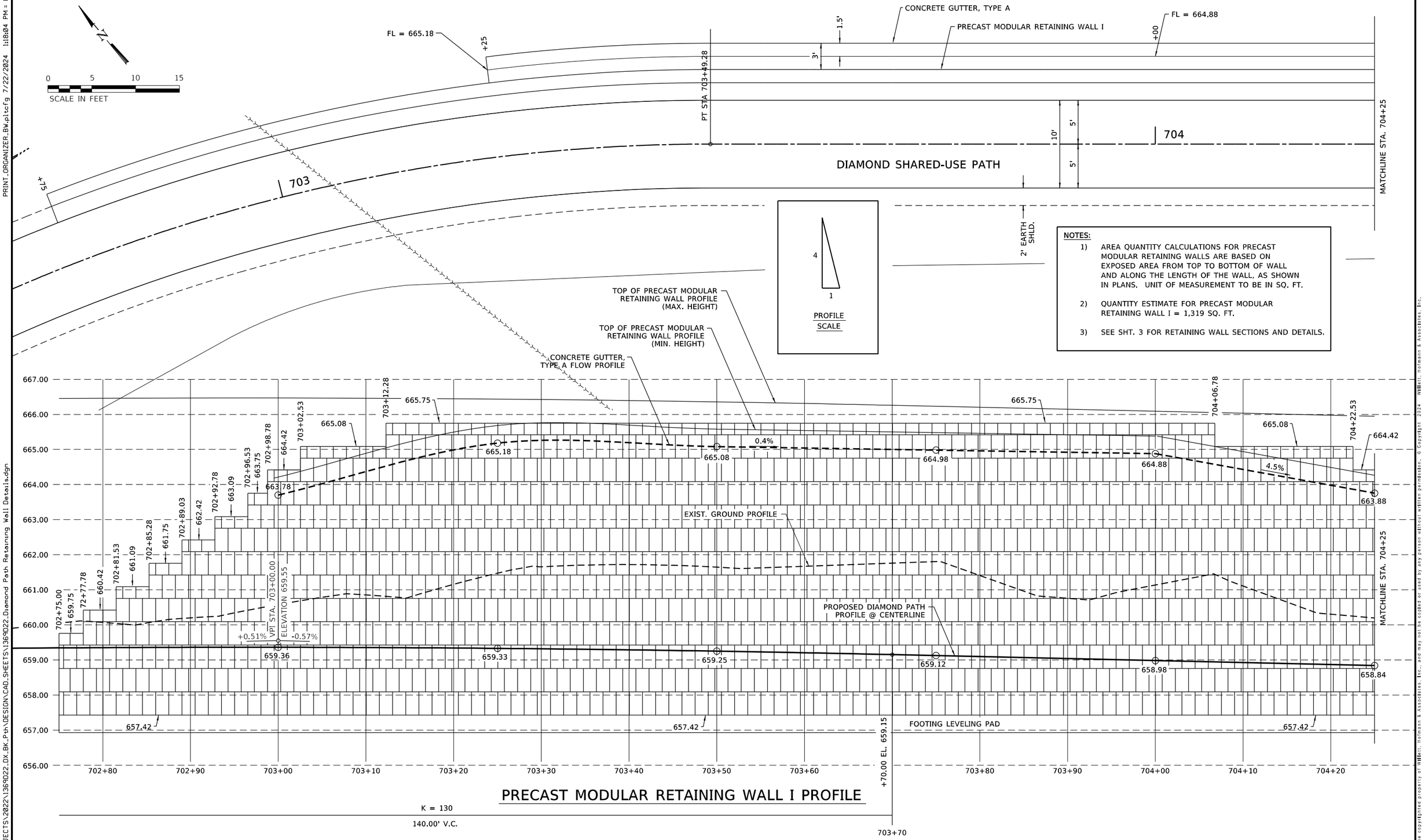
CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

WALL G & H DETAILS

SHEET 5 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	163
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



PRECAST MODULAR RETAINING WALL I PROFILE

NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.
2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL I = 1,319 SQ. FT.
3) SEE SHT. 3 FOR RETAINING WALL SECTIONS AND DETAILS.

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

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RIVER CROSSING SHARED-USE PATH
2024

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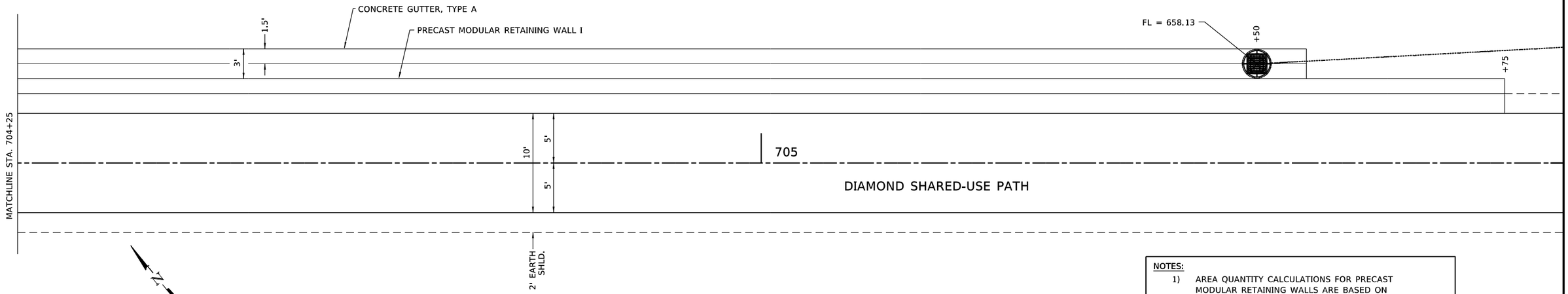
WALL I DETAILS

SHEET 1 OF 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	164
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

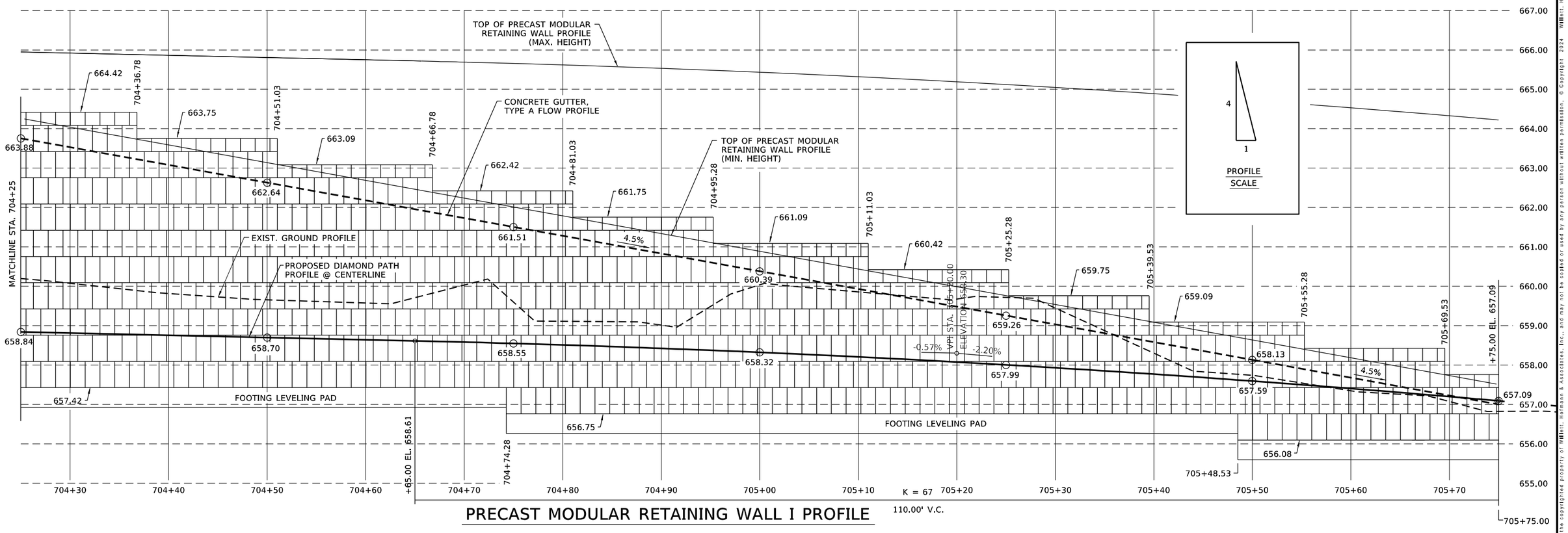


NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL, AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL I = 1,319 SQ. FT.

3) SEE SHT. 3 FOR RETAINING WALL SECTIONS AND DETAILS.



PRECAST MODULAR RETAINING WALL I PROFILE

REVISION	DATE	BY	REMARKS

DESIGNED LGN
DRAWN DLB
REVIEWED GFS
APPROVED GFS

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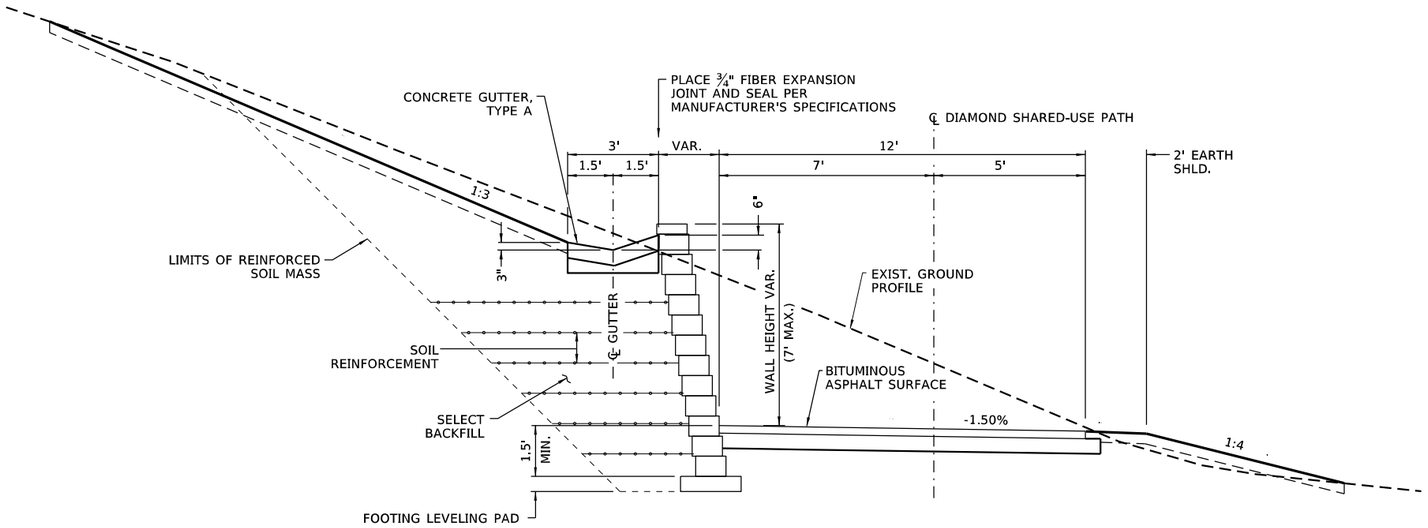
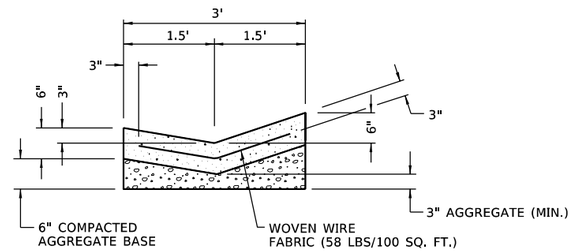
WALL I DETAILS

SHEET 2 OF 3

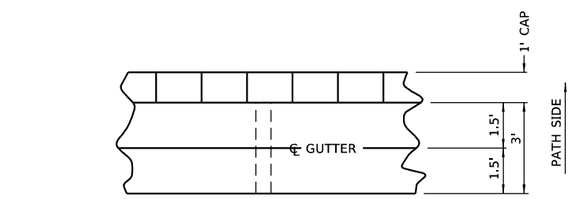
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	165
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

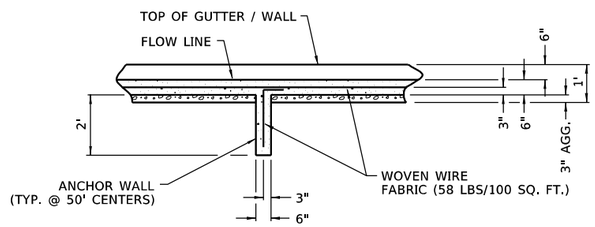


PRECAST MODULAR RETAINING WALL I W/ CONC. GUTTER
STA. 703+00.00 TO 705+75.00
LOOKING SOUTH



CONCRETE GUTTER, TYPE A DETAIL





CONCRETE GUTTER, TYPE A ANCHOR WALL DETAIL

(SECTION THRU ℄ GUTTER)

REVISION	DATE	BY	REMARKS

DESIGNED LGN
DRAWN DLB
REVIEWED GFS
APPROVED GFS

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RIVER CROSSING SHARED-USE PATH
2024

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WALL I DETAILS

SHEET 3 OF 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	166
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			

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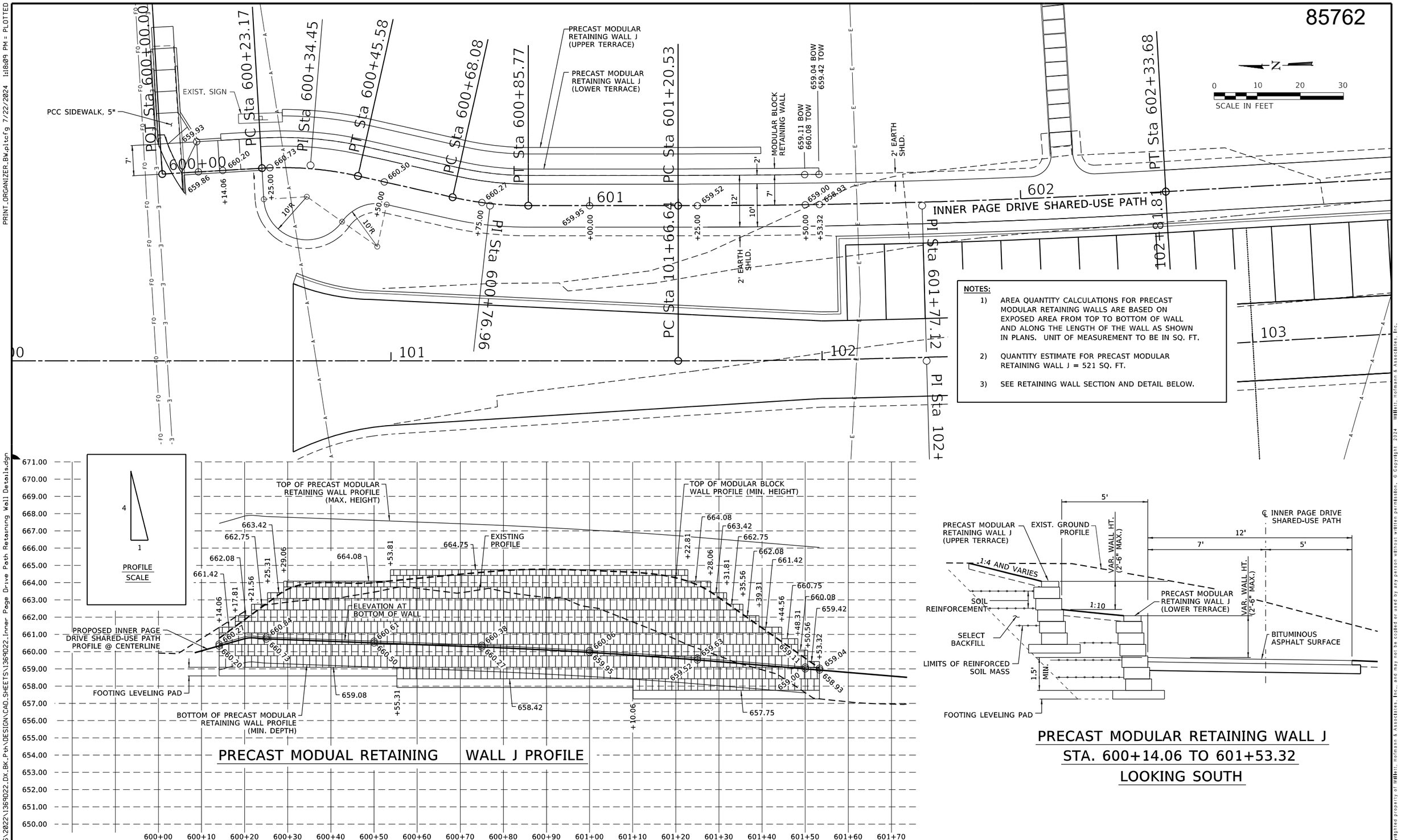

NOTES:

1) AREA QUANTITY CALCULATIONS FOR PRECAST MODULAR RETAINING WALLS ARE BASED ON EXPOSED AREA FROM TOP TO BOTTOM OF WALL AND ALONG THE LENGTH OF THE WALL AS SHOWN IN PLANS. UNIT OF MEASUREMENT TO BE IN SQ. FT.

2) QUANTITY ESTIMATE FOR PRECAST MODULAR RETAINING WALL J = 521 SQ. FT.

3) SEE RETAINING WALL SECTION AND DETAIL BELOW.

PRECAST MODUAL RETAINING WALL J PROFILE

PRECAST MODULAR RETAINING WALL J
STA. 600+14.06 TO 601+53.32
LOOKING SOUTH

REVISION	DATE	BY	REMARKS

DESIGNED LGN
DRAWN DLB
REVIEWED GFS
APPROVED GFS

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2024

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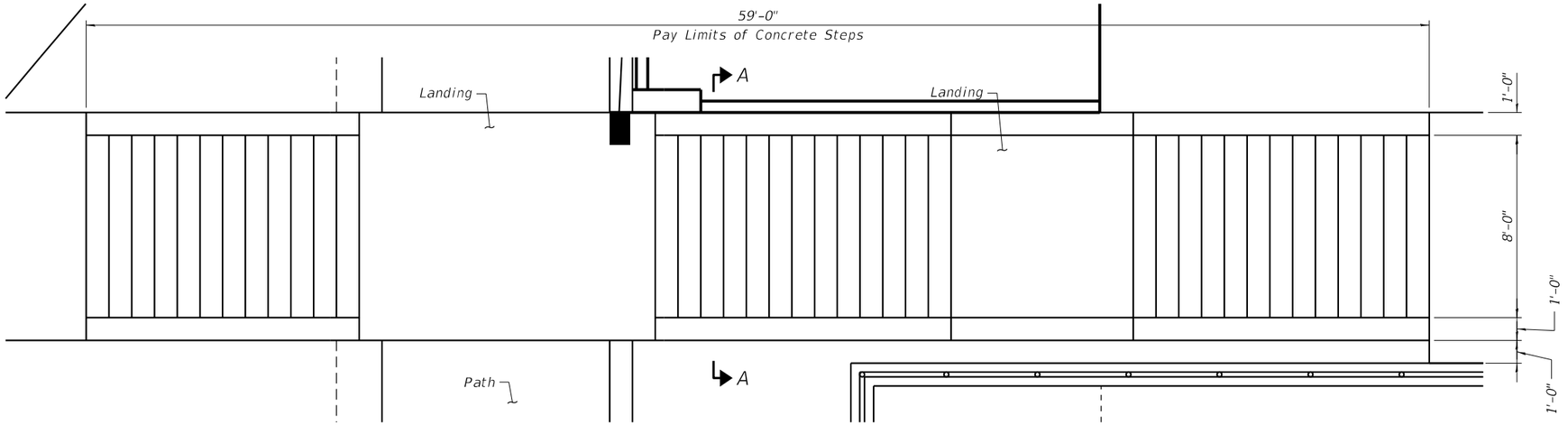
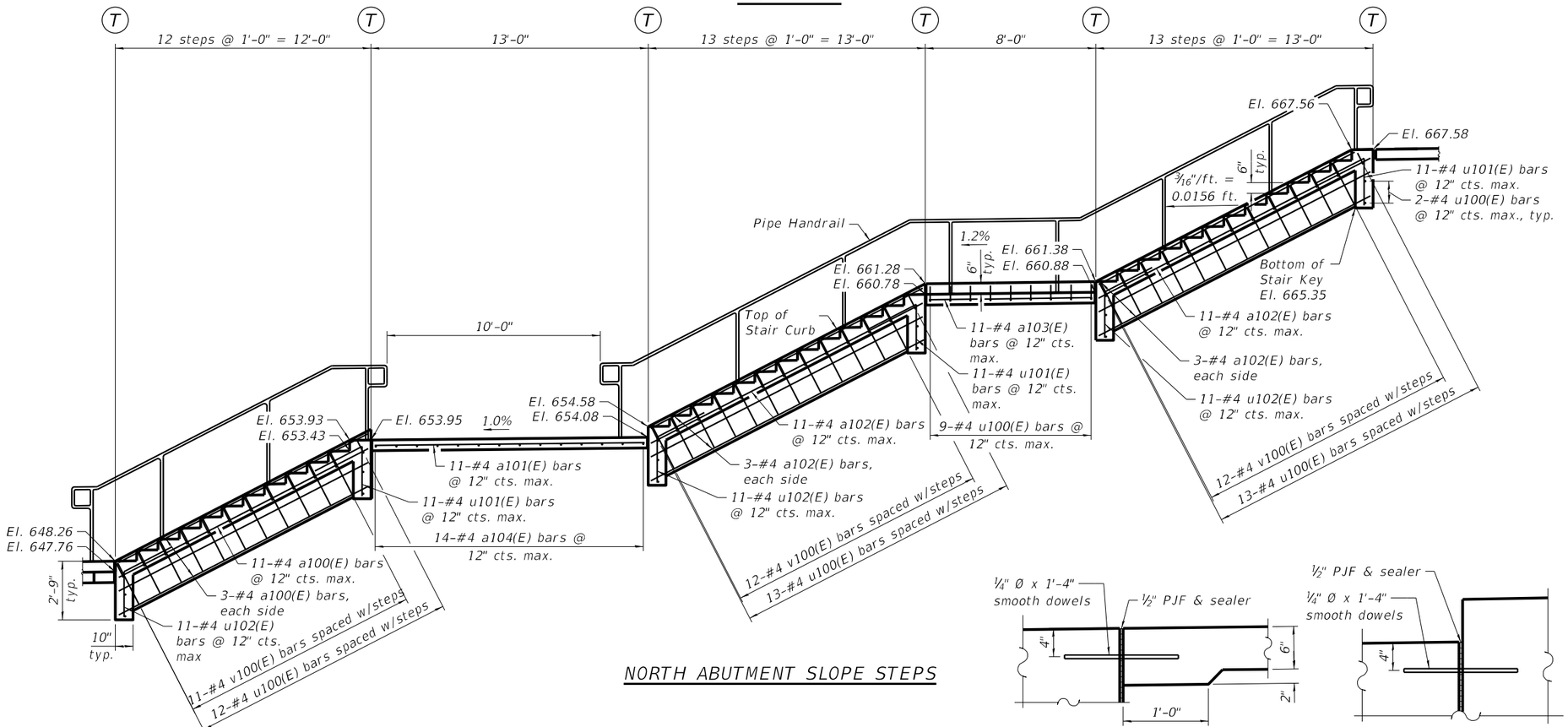
WALL J DETAILS

SHEET 1 OF 1

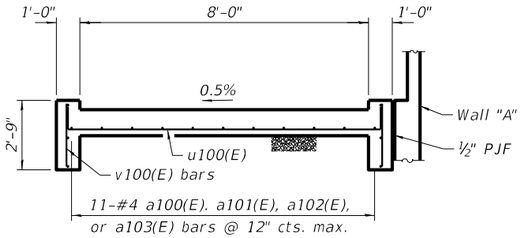
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	167
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			



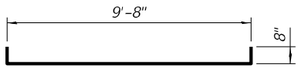
PLAN VIEW



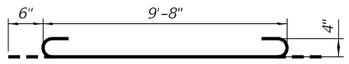
NORTH ABUTMENT SLOPE STEPS



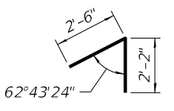
SECTION A-A



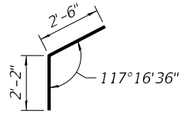
u100(E) Bar



a104(E) Bar



u101(E) Bar



u102(E) Bar

BILL OF MATERIAL

(Concrete Steps)

Bar	No.	Size	Length	Shape
a100(E)	17	#4	13'-2"	
a101(E)	11	#4	12'-8"	
a102(E)	34	#4	14'-4"	
a103(E)	11	#4	7-8"	
a104(E)	14	#4	10-8"	
u100(E)	47	#4	11'-0"	
u101(E)	33	#4	4'-8"	
u102(E)	33	#4	5'-8"	
v100(E)	70	#4	2'-2"	
Reinforcement Bars, Epoxy Coated			Pound	1,400
Concrete Steps			Cu. Yd.	24

TRANSVERSE JOINT DETAIL (T)

Top of cut off wall

TRANSVERSE JOINT DETAIL (T)

Bottom of Riser Cut off walls

REVISION	DATE	BY	REMARKS

DESIGNED SAB
DRAWN RDA
REVIEWED ---
APPROVED ---

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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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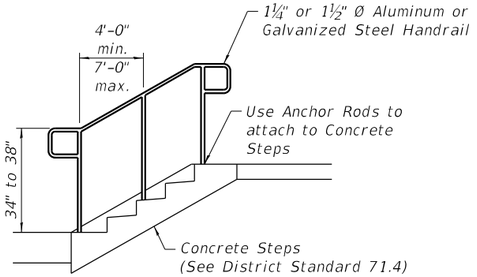
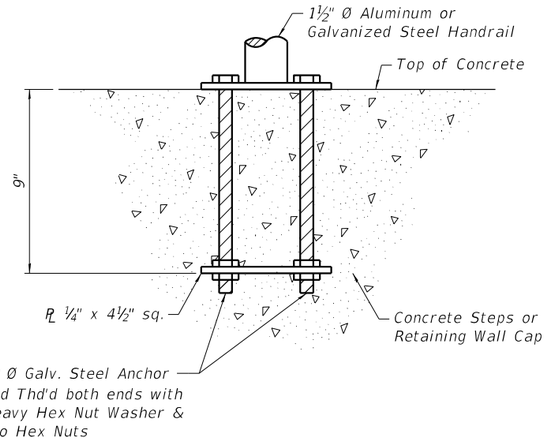
STAIR DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	168
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

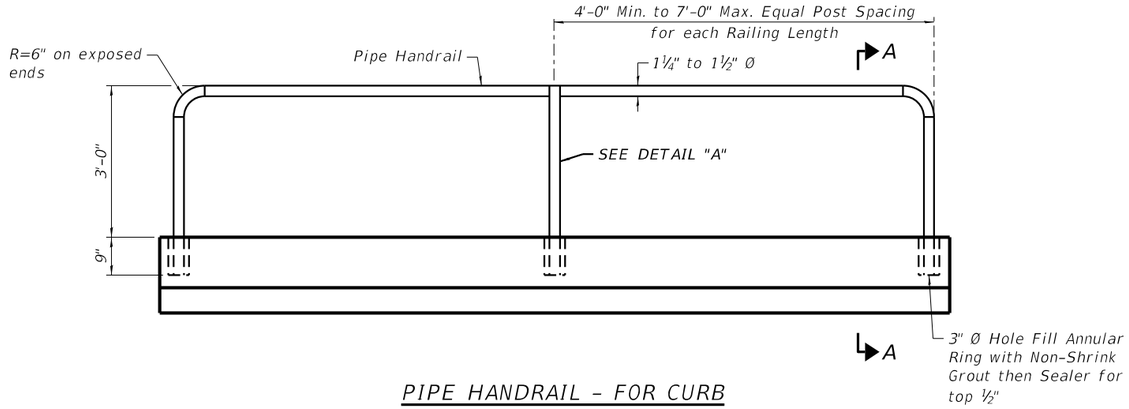


HANDRAIL FOR CONCRETE STEPS

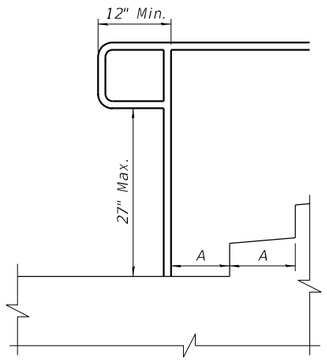


ANCHOR ROD DETAIL

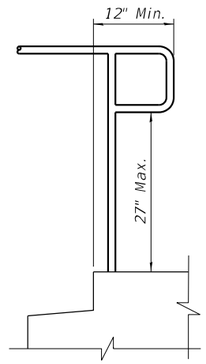
(Included in the cost of Pipe Handrail)



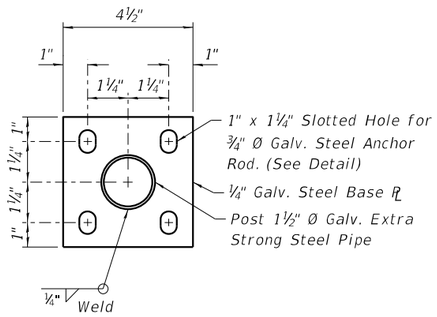
PIPE HANDRAIL – FOR CURB



EXTENSION AT BOTTOM OF RUN DETAIL

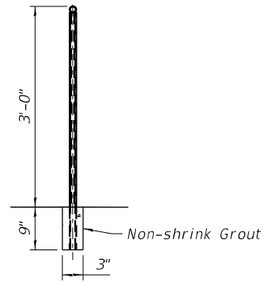


EXTENSION AT TOP OF RUN DETAIL

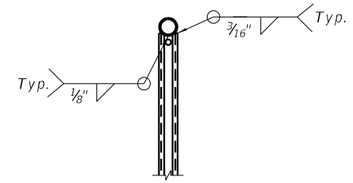


POST BASE PLATE DETAIL

(Included in the cost of Hand or Safety Rail)



SECTION A-A



DETAIL A

PIPE HANDRAIL NOTES:

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.

Ends of handrail shall be either rounded or returned smoothly to floor, wall, or post.

Hand & safety rails shall not rotate within their fittings.

Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30 or 1006.34.

The Ø of the gripping surface of the handrail shall be 1¼" to 1½".

Drilling of blocks will be necessary for reinforcement placement.

This work shall consist of furnishing and erecting Handrails as listed above and according to this detail. This work shall be paid for at the contract unit price per Foot for Pipe Handrail.

Stairways shall have continuous handrails both sides of all stairs.

The clear space between handrails and any wall shall be 1½"

New steel shall receive a 3 coat of paint system. The organic zinc rich primer / epoxy / urethane paint system shall be used for painting of the steel railing except where otherwise noted. The entire system shall be shop applied, with the exception of masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for the steel surfaces shall be dark green, Munsell 7.5G 2/4.

REVISION	DATE	BY	REMARKS

DESIGNED SAB
DRAWN RDA
REVIEWED ---
APPROVED ---

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RIVER CROSSING SHARED-USE PATH
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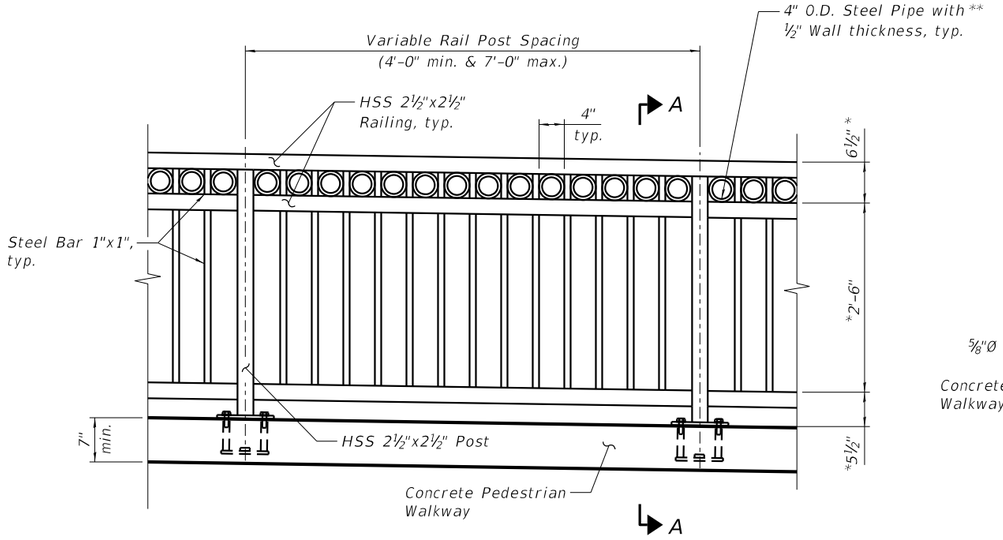
PIPE HANDRAIL DETAILS

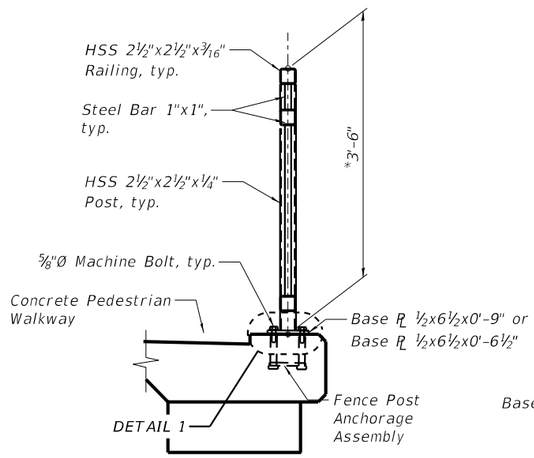
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	169
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		



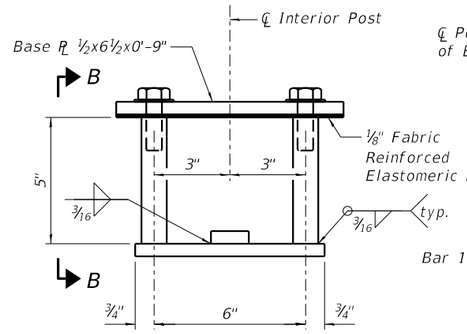
ELEVATION – PEDESTRIAN RAILING

*Dimensions measured along ℄ of Post

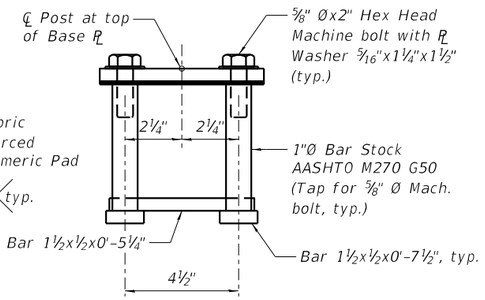
**Omit adjacent to railing posts when spacing is less than 4"



SECTION A-A

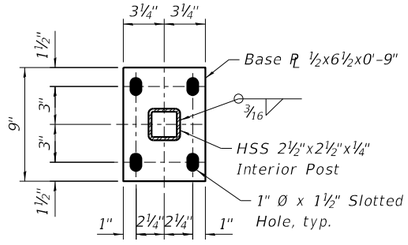


INTERMEDIATE POST ANCHORAGE ASSEMBLY

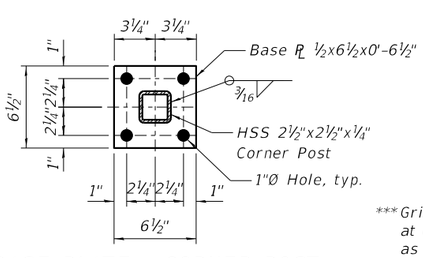


VIEW B-B

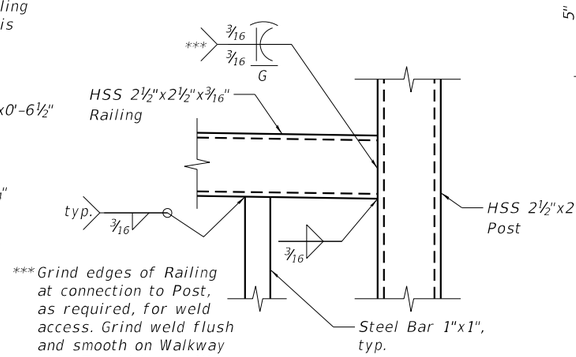
NOTE:
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BASE PLATE – INTERMEDIATE POST

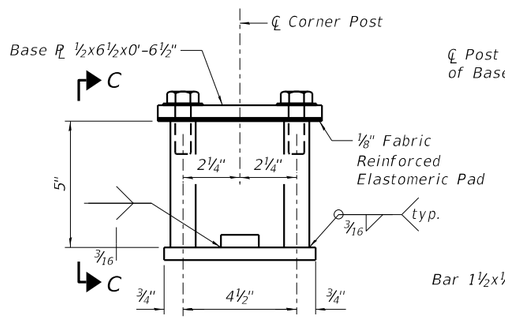


BASE PLATE – CORNER POST

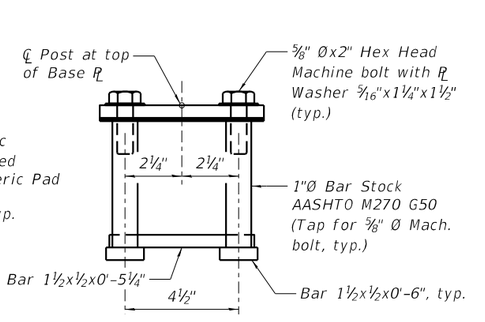


***Grind edges of Railing at connection to Post, as required, for weld access. Grind weld flush and smooth on Walkway side. Transition to fillet welds without interrupting weld.

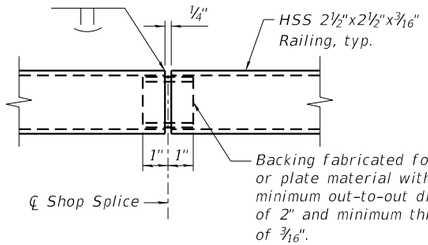
PEDESTRIAN RAILING WELD DETAIL



CORNER POST ANCHORAGE ASSEMBLY

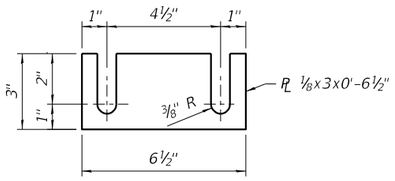


VIEW C-C



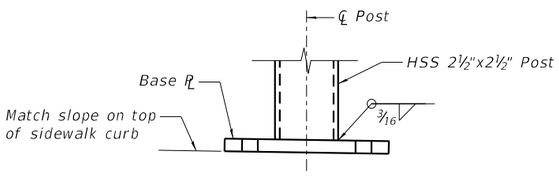
SHOP RAIL SPLICE DETAIL

(Locations must be shown on Shop Drawings)



POST SHIM PLATE DETAIL

Shim plates shall be galvanized after shop fabrication according to AASHTO M232.



DETAIL 1

NOTES:

1. Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Pedestrian Rail (Special) Handrail, Spec.
2. Hollow Structural Steel Tubing shall conform to the requirements of ASTM designation A500, Grade B, Structural Steel Tubing.
3. All other steel shapes and plates shall conform to the requirements of AASHTO M270, Grade 36.
4. Railing shall be fabricated in lengths that include a minimum of 3 posts unless section length is less than 8'-0".
5. Post base plates shall be flat with all surfaces smooth and free from warp, and all edges smooth, straight and vertical.
6. Posts shall be vertical with bottom edge cut to match slope of deck before welding to base plates.
7. Galvanized steel post shims may be used under posts where required for alignment.
8. Pedestrian Rail Anchor bolts shall be ⅝" diameter, supplied with hexagonal nuts and cut washers, minimum embedment length in sound concrete of 5".
9. New steel shall receive a 3 coat of paint system. The organic zinc rich primer / epoxy / urethane paint system shall be used for painting of the steel railing except where otherwise noted. The entire system shall be shop applied, with the exception of masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for the steel surfaces shall be dark green, Munsell 7.5G 2/4.

REVISION	DATE	BY	REMARKS

DESIGNED	SAB
DRAWN	RDA
REVIEWED	---
APPROVED	---

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM #: 184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

PEDESTRIAN RAIL, SPECIAL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	170
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT SLY7(916)			

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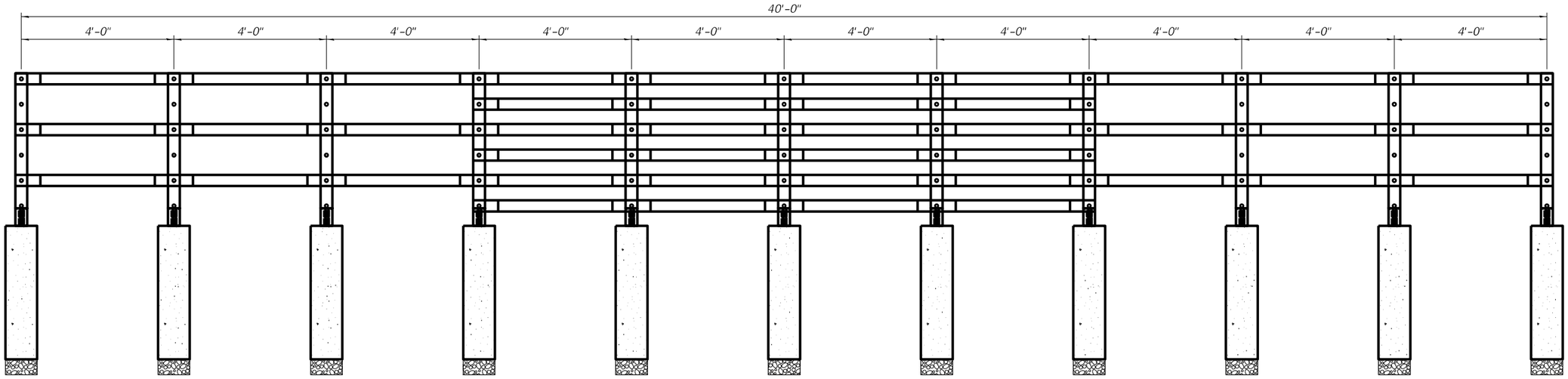
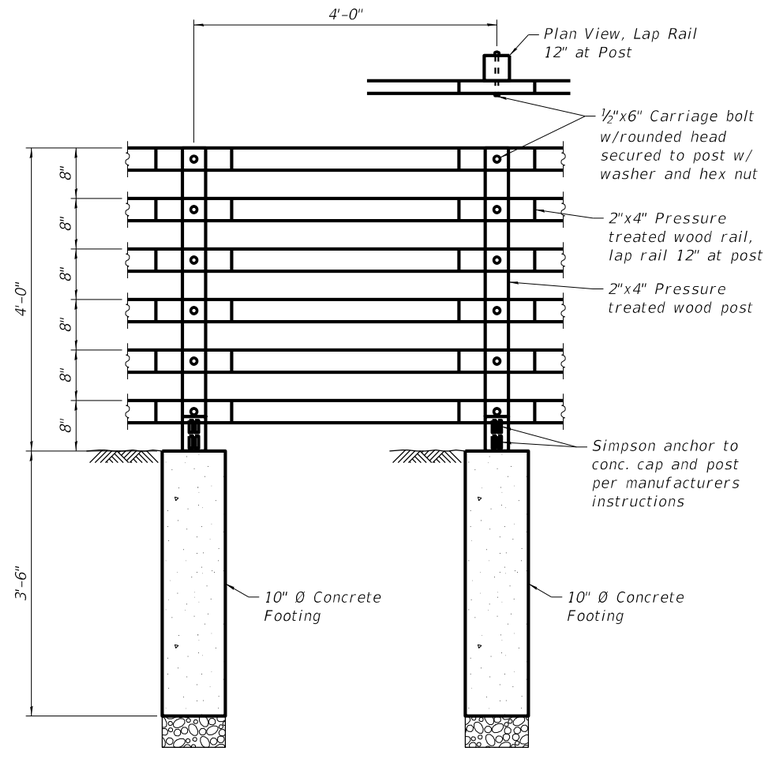


WOOD POST AND RAIL ELEVATION



WOOD POST AND RAIL FENCE DETAIL

N.T.S.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Wood Post and Rail Fence	Foot	80

BILL OF MATERIAL

REVISION	DATE	BY	REMARKS

DESIGNED SAB
DRAWN RDA
REVIEWED ---
APPROVED ---

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
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WOOD FENCE DETAILS STA. 13+46 TO STA. 13+86

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	171
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT SLY7(916)		

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GENERAL NOTES:

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENT SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS LATEST EDITION.
2. THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH COULD AFFECT HIS WORK UNDER THIS CONTRACT FOR OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
3. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM JOB SITE AT THE CONTRACTOR'S EXPENSE.
4. ALL UNDERGROUND UNIT DUCT SHALL BE 30 INCHES MINIMUM BELOW GRADE PER IDOT SECTION 810. UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS, AND UNDERGROUND UTILITIES.
5. ALL SPLICING MUST BE IN POLE BASES WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS. UNLESS NOTED OTHERWISE.
6. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION OF EXISTING LIGHTING WITHOUT THE APPROVAL OF THE ENGINEER. ALL EXISTING LIGHTING SHALL OPERATE FROM DUSK TO DAWN DAILY FOR DURATION OF THE PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS.
7. THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICE REQUIRED FOR THE TRAFFIC OPERATIONS THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATION PREFORMED BY THE STATE IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
8. REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, UNSUITABLE, AND ORGANIC MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL INSTALL FLEXIBLE CONDUIT AS PER DETAIL BE-902, WHEN TRANSISTION BETWEEN EXPANSION JOINT.

CONTROLLER NOTES:

1. CONTROL CABINET SHALL BE U.L. LISTED "INDUSTRIAL CONTROL PANEL" PER U.L. 508.
2. CONSTRUCTION SHALL BE NEMA 4X.
3. VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS. 120/240V, 1∅, 3W.
4. SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.
5. SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
6. THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE MINIMUM DIAMETER OF 11MM.
7. ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINALS LUGS SHALL BE COPPER SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 200A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:

   A) INCOMING TERMINALS (LANDING LUGS)
   B) NEUTRAL LUGS
   C) SOLID NEUTRAL TERMINAL STRIP
   D) TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE
8. AT LEAST 6 STANDARD SINGLE POLE CIRCUIT BREAKER SPACES (20MM NOMINAL) SHALL BE PROVIDED FOR BRANCH CIRCUITS. INTERIORS SHALL ACCEPT BOLT- ON OR CABLE-IN/CABLE- OUT CIRCUIT BREAKERS.
9. BOLT- ON CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE- IN/ CABLE- OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN VERTICAL POSITION.
10. FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
11. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
12. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
13. FOUNDATION SHALL EXTEND 3" MINIMUM BEYOND EDGE OF ENCLOSURE.
14. FIRST TOP 6 CIRCUIT, OF PANEL SHALL BE NON- SWITCHED. BOTTOM SECOND 12 CIRCUIT, SHALL BE CONTACTOR CONTROL WITH PHOTOCELL, AND UNIVERSAL TIMER.

CONTACT NOTES:

1. CALL JULIE OR DIGGER FOR CABLE LOCATES, CALL IDOT EMC AT (708) 524-2145 FOR IDOT MAINTAINED CABLE LOCATES.

SYMBOL LEGEND:

- PROPOSED LIGHTING CONTROLLER
- TYPE A PROPOSED LIGHTING UNIT, SPECIAL
- TYPE B PROPOSED CANOPY LIGHT FOR PAVILION.
- TYPE C PROPOSED LIGHT, MARINE GRADE FOR PIER LIGHTING.
- PROPOSED JUNCTION BOX SHALL BE STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED ON PLANS
- PROPOSED HANDHOLE
- TYPE D PROPOSED LIGHTING UNIT, SPECIAL
- (A) PROPOSED UNIT DUCT, UNIT DUCT, 600V, 3-1C NO.1, 1/C NO.8 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE
- (B) PROPOSED ELECTRIC CABLE IN CONDUIT, 2" CNC

ABBREVIATIONS:

E	EXISTING TO REMAIN
E.O.P.	EDGE OF PAVEMENT
EMC	ELECTRICAL MAINTENANCE CONTRACT
FT	FEET OR FOOT
GND	GROUND
JB	JUNCTION BOX
MA	MAST ARM
NO.	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANISED STEEL
R	REMOVE
STA.	STATION
U.N.O.	UNLESS NOTED OTHERWISE
HPS	HIGH PRESSURE SODIUM

SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QTY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" CONDUIT	FOOT	50
81028730	UNDERGROUND CONDUIT, COILABLE NONMETTALIC CONDUIT, 1 1/4" DIA.	FOOT	13,410
81028750	UNDERGROUND CONDUIT, COILABLE NONMETTALIC CONDUIT, 2" DIA.	FOOT	350
81100100	CONDUIT ATTACHED TO STRUCTURE, 1/2" DIA., GALVANIZED STEEL	FOOT	830
81100300	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	40
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	1,120
81200200	CONDUIT EMEBEDDED IN STRUCTURE 3/4" DIA., PVC	FOOT	300
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	18
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	24
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	1
81400100	HANDHOLE	EACH	1
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1-1/C NO. 10	FOOT	16,530
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1-1/C NO. 8	FOOT	40,830
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1-1/C NO. 6	FOOT	44,670
81702190	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1-1/C NO. 4/0	FOOT	250
82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200 AMP	EACH	1
X1400210	LIGHT POLE, SPECIAL, 12'	EACH	100
X81212034	LUMINAIRE, TYPE D (SPECIAL)	EACH	28
X8212031	LUMINAIRE, TYPE A (SPECIAL)	EACH	72
X8212032	LUMINAIRE, TYPE B (SPECIAL)	EACH	5
X8212033	LUMINAIRE, TYPE C (SPECIAL)	EACH	90
X8360120	LIGHT POLE FOUNDATION SPECIAL	EACH	86

STATE OF ILLINOIS
HAMJA S. MASTER
062-040209
REGISTERED PROFESSIONAL ENGINEER

E-00

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOHII
REVIEWED KK
APPROVED HM

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

LIGHTING GENERAL NOTES AND LEGEND

SHEET 01 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	172
	WHA# 1369D22	CONTRACT NO. 85762		
NOT TO SCALE	ILLINOIS	FED. AID PROJECT 5LY7(916)		

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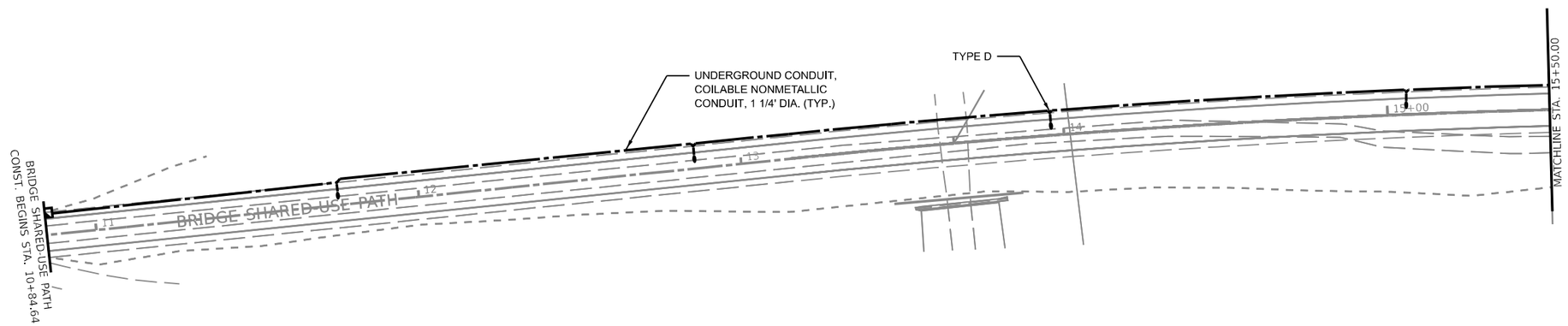
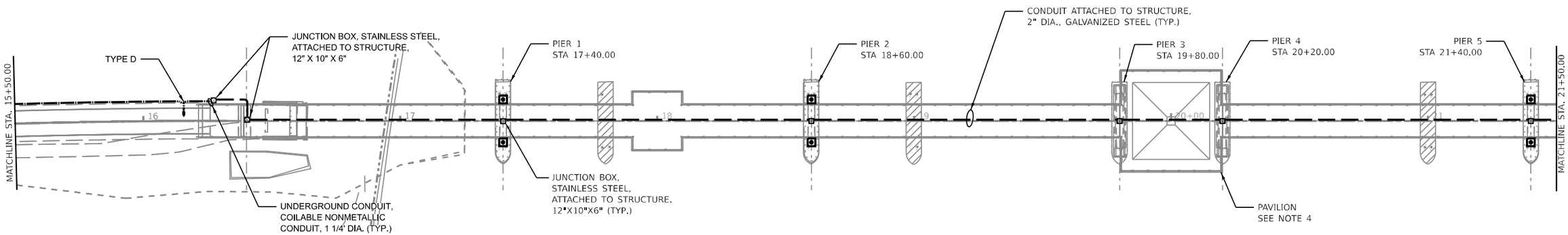
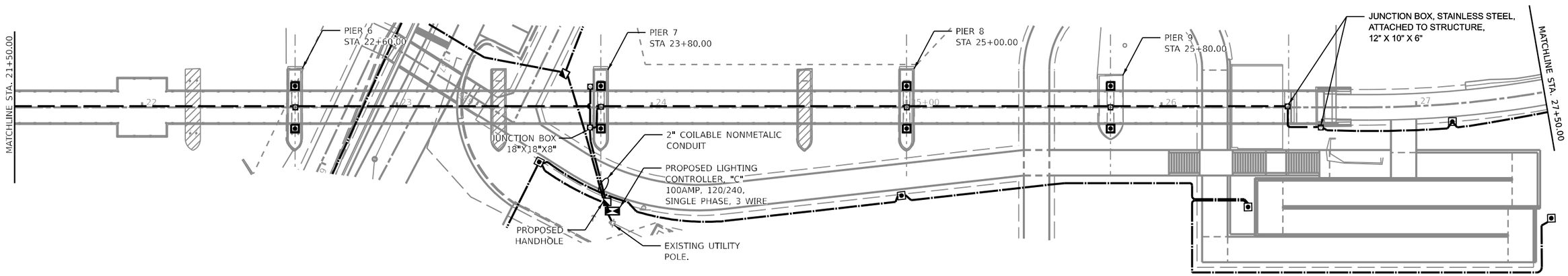
SCALE IN FEET

NOTES

1. FOR GENERAL NOTES AND SYMBOLS LEGEND, SEE SHEET E-00.
2. SEE SHEET E-05, FOR PIER LIGHING DETAIL.
3. CONTRACATOR SHALL FIELD VERIFY THE LIGHING LOCATOIN, AND THE LIGHTING ORIENTATION, FOR ASTHETIC PIER LIGHTING.
4. SEE SHEET E-03, FOR SINGLE LINE, AND CABLING DETAILS.
5. SEE SHEET E-07, FOR LIGHTING CONTROLLER DETAILS.
6. SEE SHEET E-05 FOR PEDESTRAIN WALKWAY LIGHTING DETAILS.







E-01

REVISION	DATE	BY	REMARKS

DESIGNED	AM
DRAWN	LOHII
REVIEWED	KK
APPROVED	

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PROPOSED LIGHTING PLAN

SHEET 02 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	173
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT STY7(916)		

FILE = $FILE$

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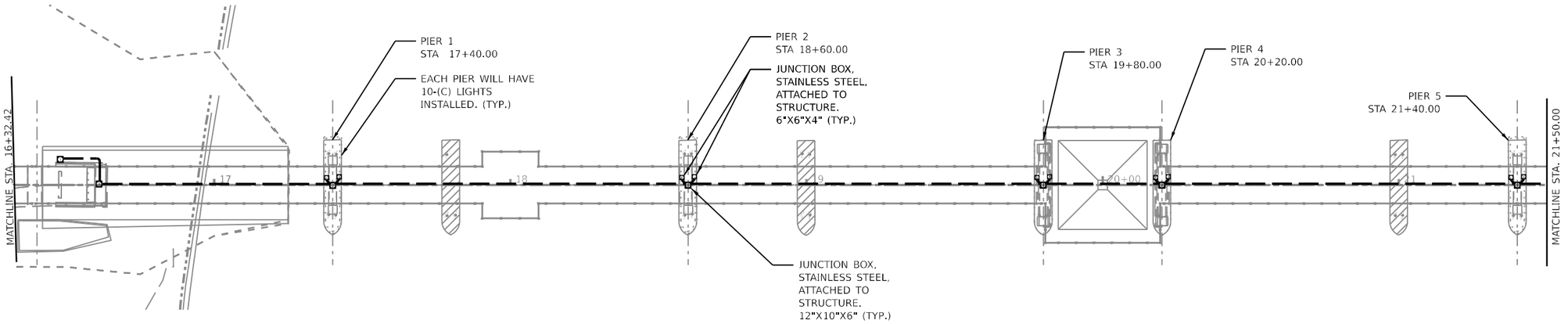
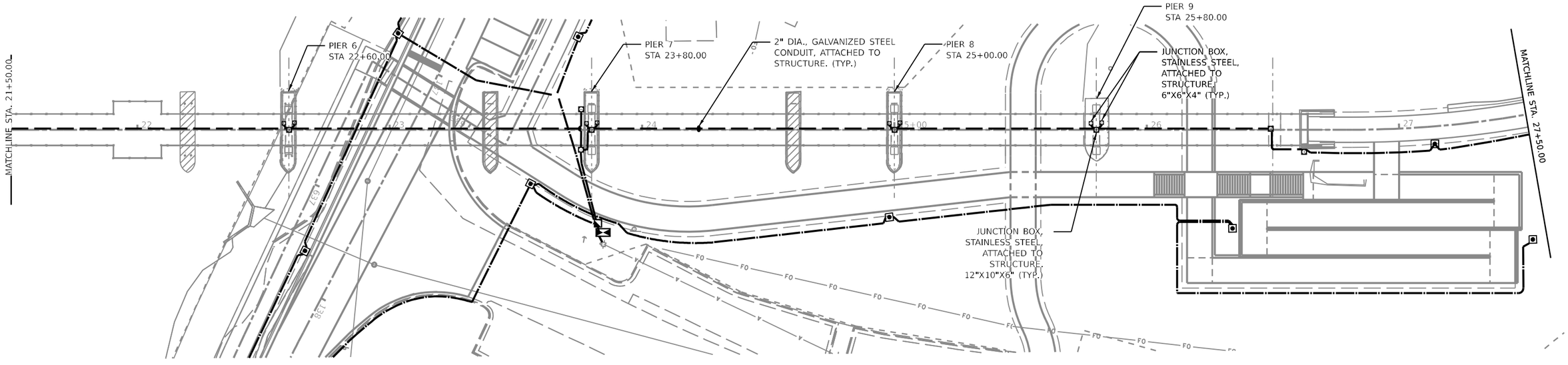


NOTES

1. FOR GENERAL NOTES AND SYMBOLS LEGEND, SEE SHEET E-00
2. SEE SHEET E-05, FOR PIER LIGHING DETAIL.
3. CONTRACATOR SHALL FIELD VERIFY THE LIGHING LOCATOIN, AND THE LIGHTING ORIENTATION, FOR ASTHETIC PIER LIGHTING.
4. SEE SHEET E-04, FOR PAVILION LIGHTING INSTALLATION.



E-02

REVISION	DATE	BY	REMARKS

DESIGNED	AM
DRAWN	LOHE
REVIEWED	KK
APPROVED	

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PROPOSED LIGHTING PLAN
PIER UP AND DOWN LIGHT

SHEET 03 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	174
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

FILE = $FILE$

$PLTDRY$ $DATE$ $TIME$ = PLOTTED

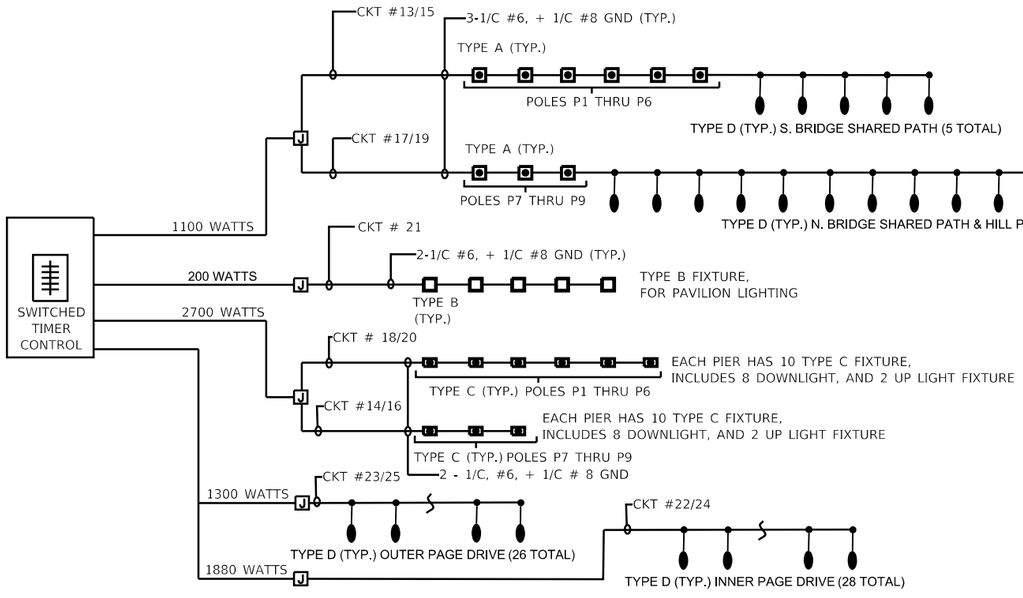
LIGHTING FIXTURE SCHEDULE

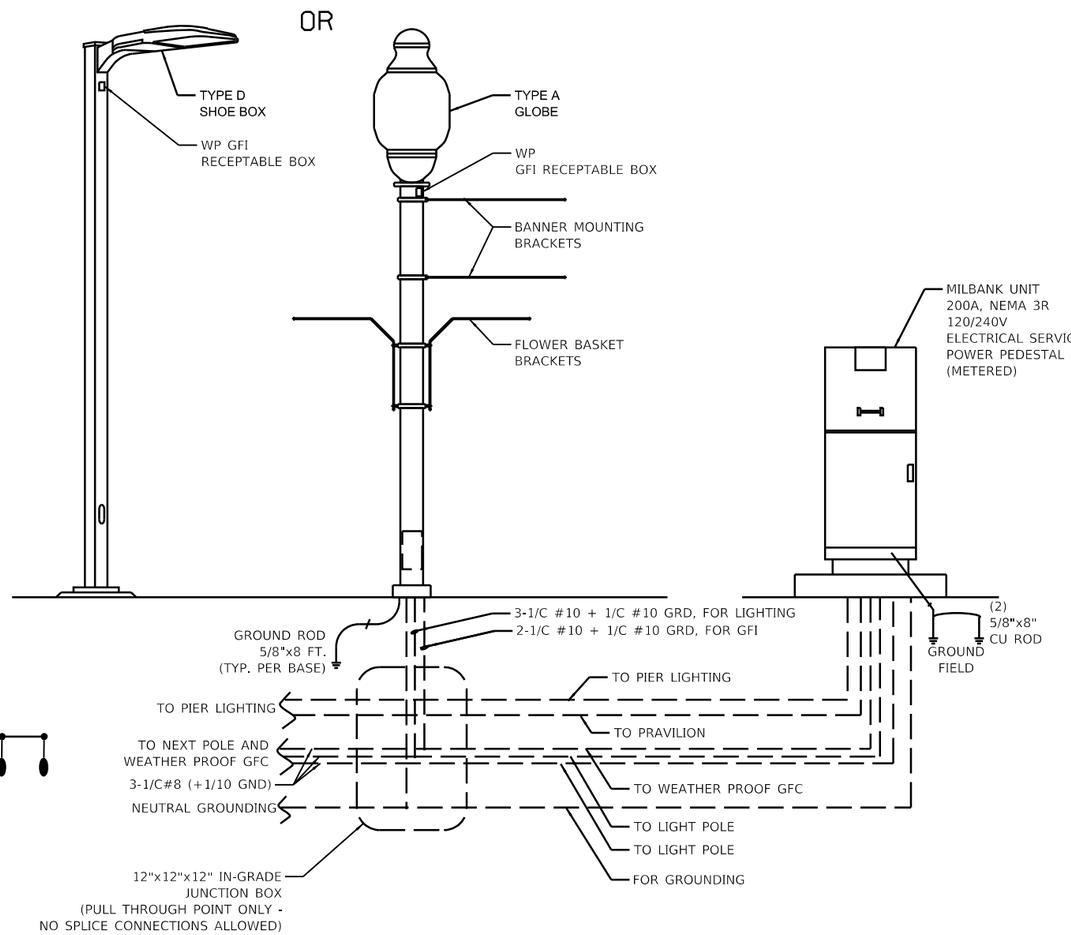
TYPE	DESCRIPTION	LAMP TYPE	LUMENS	FIXTURE WATTAGE	MOUNTING	VOLTAGE	REMARK
A	VICTORIAN STYLE DECORATEIVE POST TOP LED GROLBED POLE FIXTURE, 12' POLE, GREEN 3000K COLOR TEMP, 350mA DRIVE CURRENT, TYPE 3 WIDE OPTICS. HADCO TYPE #RL54-B-W-3	LED	9200	69W	POLE TOP	240V	POLE MOUNT12FT GREEN, FLUTED DECORATIVE POLE #P206512-J
B	1' X 1' CANOPY LIGHT LED, WIDE DISTRIBUTION, SURFACE MOUNTED, 4000 DEGREE K COLOR, 240V, 1 PHASE, IP 65 RATED, UL LISTED, BARON TYPE TRACE LITE TYPE # SCP-S-36-P-VS-4K	LED	4800	36W	SURFACE	240V	
C	6" DIA., PIER DOWN LIGHT, ALUMINIUM ALLOY, LED MODULE, RATED IP66 FOR WET LOCATION, 30W, 3200 LUMENS, 3500K, COLOR CHANGING, 240V, STANDARD FLOOD OPTIC 30 DEGREE. LUMINIS TYPE # SY602-L2L15-R30-240V	LED	3200	30W	SURFACE	240V	
D	MEDIUM DISTRIBUTION, SLEEK, LOW PROFILE DESGN, AND OPTIMAL PERFORMANCE. HOUSING IP66 RATED, LOW COPPPER DIE-CAST ALUMINUM ALLOY FOR A HIGH RESISTANCE TO CORROSION. 3000K, ARM MOUNT, 5100 LUMENS GARDCO TYPE P26-5100LUMENS-AR-240 V	LED	5100	51W	POLE	240V	POLE MOUNT12FT BLACK, ROUND STARIGHT STEEL # RA4-CB-12-D1-BLP

PANEL " LP " SCHEDULE

PANEL : LP — RATING (AIC): 14000 — TYPE: BOLT - ON, SERVICE ENTRANCE RATED
VOLTAGE: 120/240 — BUS 225A — NEMA : 1 INTERNAL TO 3R ENCLOSURE
PHASE: 1 - WIRE: 3, #4/0 awg — MAIN BREAKER 200A — MOUNT : OUTDOOR
- — FEED BOTTOM — LOCATION : SERVICE PEDESTAL

DESCRIPTION	WIRE SIZE	VA A	VA B	BRKR AMP	BRKR P	CKT. NO.	BUS CONN.	CKT. NO.	BRKR P	BRKR AMP	VA A	VA B	WIRE SIZE	DESCRIPTION
RECEPTACLE INSIDE CABINET			180	20	1	1		2	1	20	1080		#10awg	RECEPTACLE ON POLES P1 THRU' P6
SCHEMATIC DIAGRAM CONTROL CIRCUIT	#12awg	200		20	1	3		4	1	20		1440	#10awg	RECEPTACLE ON POLES P7 THRU' P9, AND S. BRIDGE SHARE (5) POLES
RECEPTACLES ON N. BRIDGE SHARE PATH, AND HILL PATH POLES TOTAL OF 15 POLES	#8 awg		2700	40	1	5		6	1	40	3330		#6 AWG	RECEPTACLES ON INNER PAGE DRIVE, AND DIAMOND PATH POLES, TOTAL OF 19 POLES
SPARE				20	1	7		8	1	40		3330	#6 AWG	RECEPTACLES ON OUTER PAGE DRIVE POLES, TOTAL OF18 POLES
SPARE				20	1	9		10	1	20				SPARE
SPARE				20	1	11		12	1	20				SPARE
				200A CONTACTOR W/ PHOTOCELL CONTROL										
POLE LIGHTING FIXTURE (A) - P1 through P6 AND S. BRIDGE SHARE PATH 5 POLES	#6 AWG	595	595	20	2	13 15		14 16	2	20	450	450	#6awg	UP AND DOWN DECORATIVE LIGHTING FIXTURE (C), PIER 7 THUR 9
POLE LIGHTING FIXTURE (A) - P7 through P9, HILL DRIVE, AND N. BRIDGE SHARE PATH, 15 POLES	#6 AWG	585	585	20	2	17 19		18 20	2	20	900	900	#6awg	UP AND DOWN DECORATIVE LIGHTING FIXTURE (C), PIER 1 THRU 6
PAVILION LIGHTING FIXTURE TYPE "B" TOTAL OF 5	#6 AWG	90	90	20	2	21 23		22 24	2	20	925	925	#6 AWG	INNER PAGE DRIVE POLES, AND DIAMOND PATH DRIVE, 37 POLES
OUTER PAGE DRIVE POLES, 26 POLES	#6 AWG	650	650	20	2	25 27		26 28	1 1	20 20				SPARE SPARE
SPARE				20	1	29		30	1	20				SPARE
VA: BUS A&B:		2120	4800								6685	7045		
TOTAL VA :		20722												
POWER FACTOR		1												
AMPS :		86												





SITE DISTRIBUTION DETAIL

FILE = $FILE$

REVISION	DATE	BY	REMARKS

DESIGNED AM
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REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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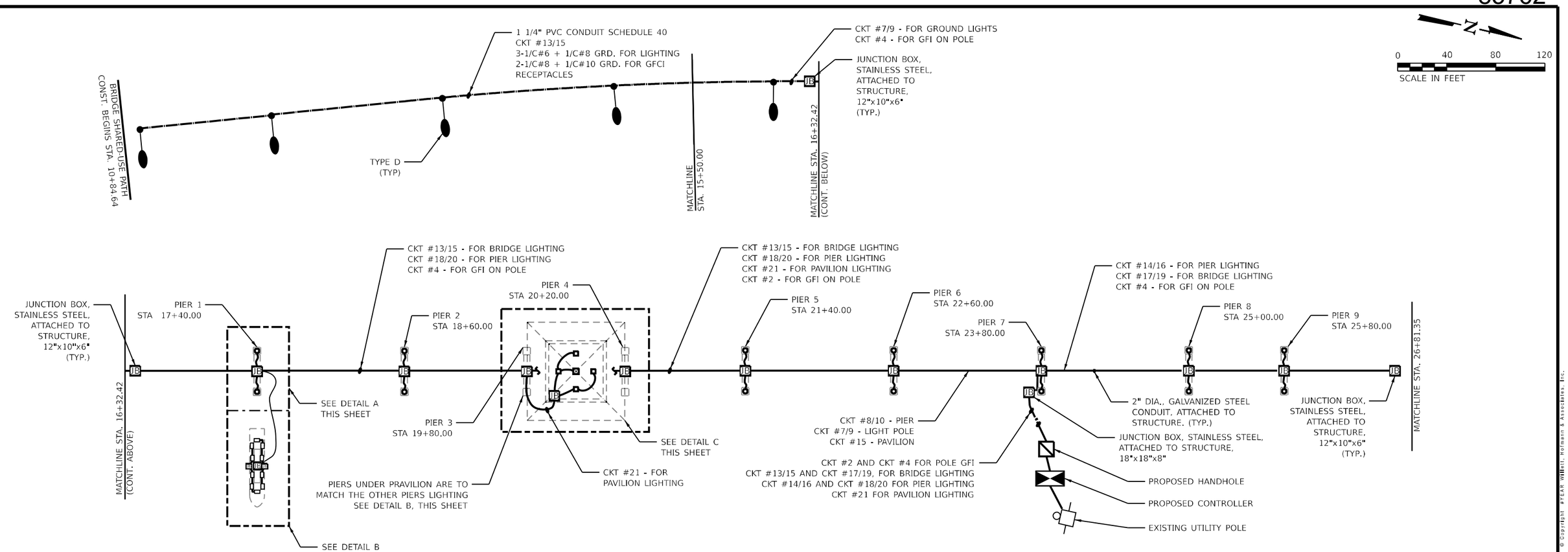
ELECTRICAL SCHEDULES AND LEGENDS

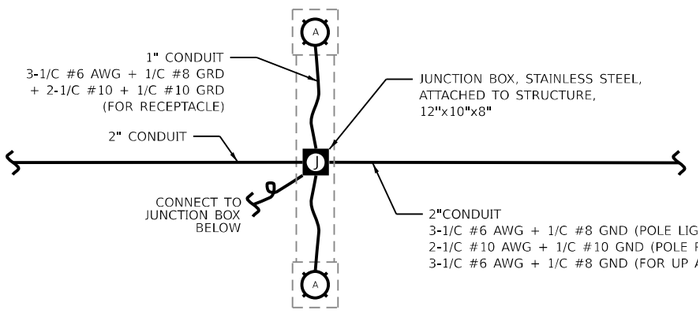
SHEET 04 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	175
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

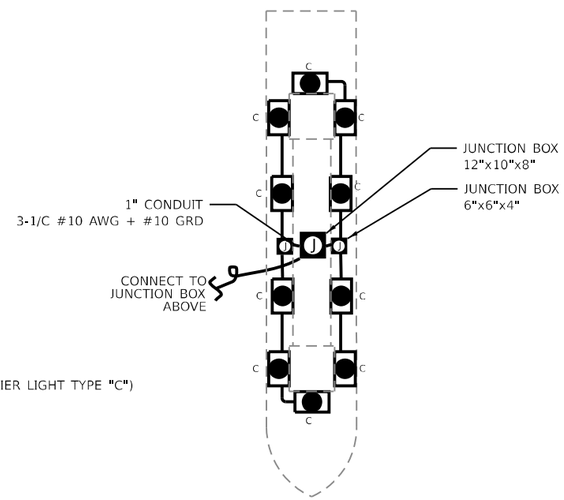
E-03



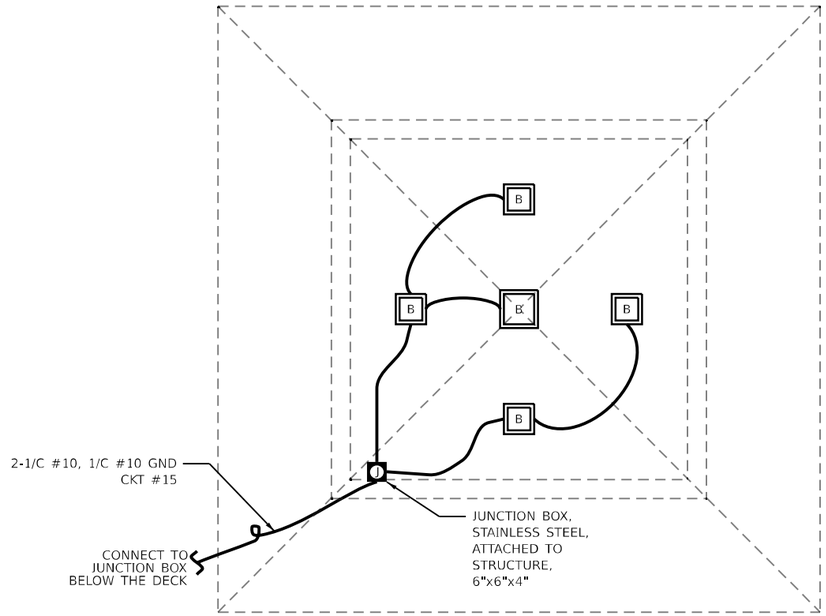
BRIDGE SHARE-USE PATH WIRING DIAGRAM



DETAIL A - PIER SCHEMATIC (TYP)



DETAIL B - PIER SCHEMATIC (TYP)



DETAIL C - PAVILION CEILING LIGHTING WIRING PLAN

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOHE
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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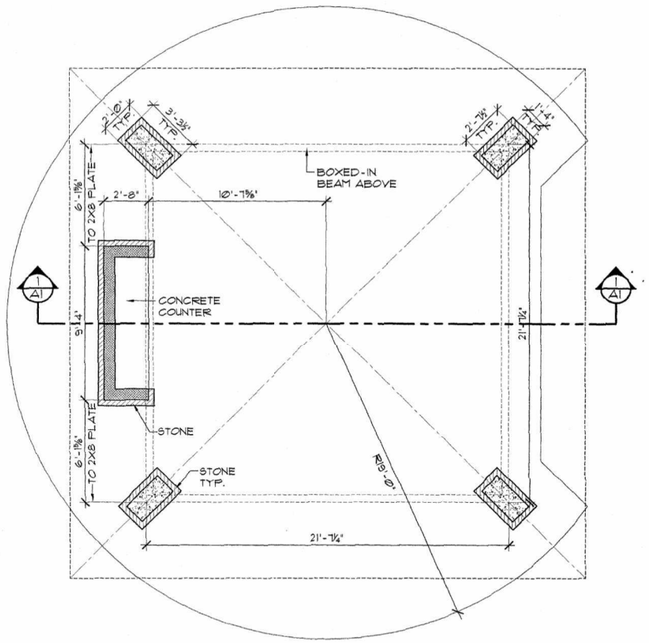
PROPOSED LIGHTING PLAN

SHEET 05 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	176
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

FILE = $FILE$

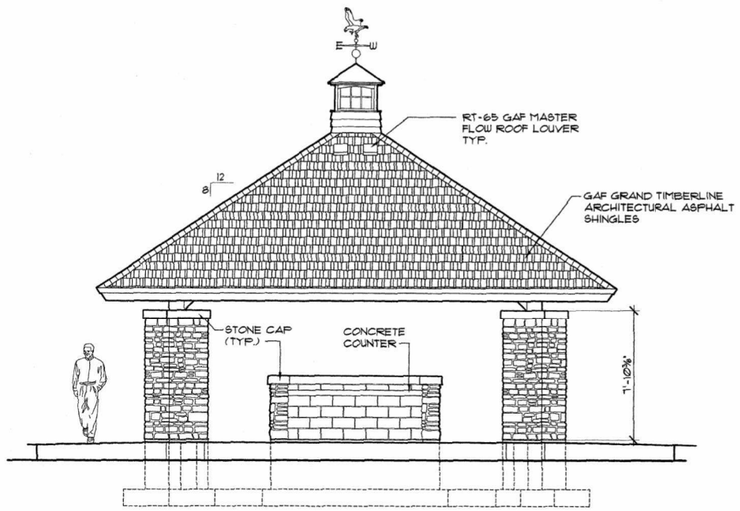
85762



FLOOR PLAN

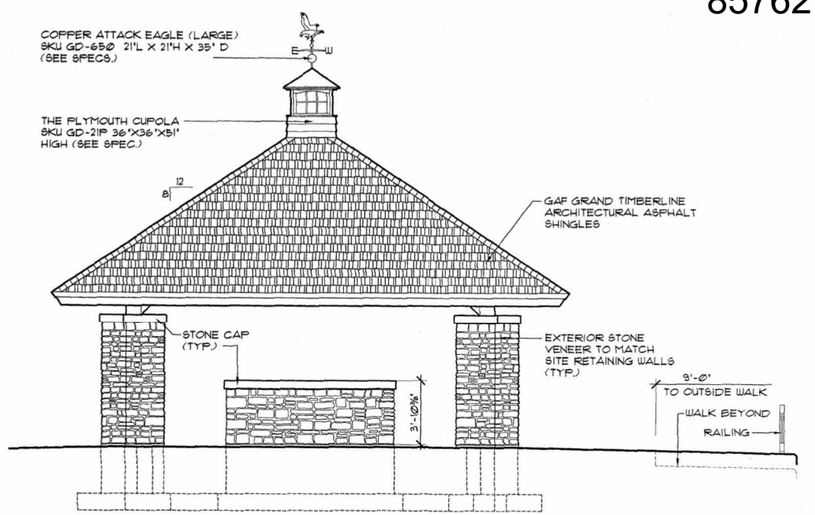
SCALE: ¼"=1'-Ø"

N



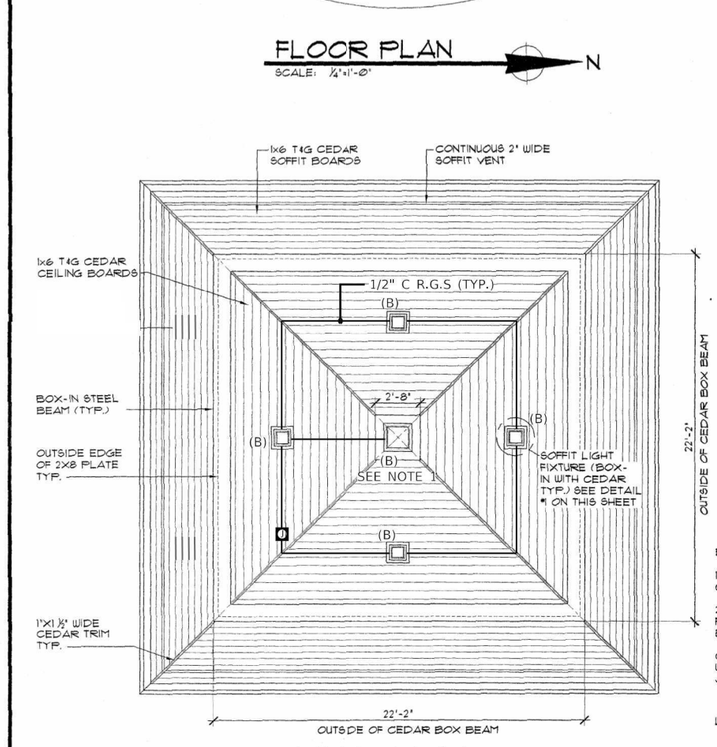
NORTH ELEVATION

SCALE: ¼"=1'-Ø"



SOUTH ELEVATION

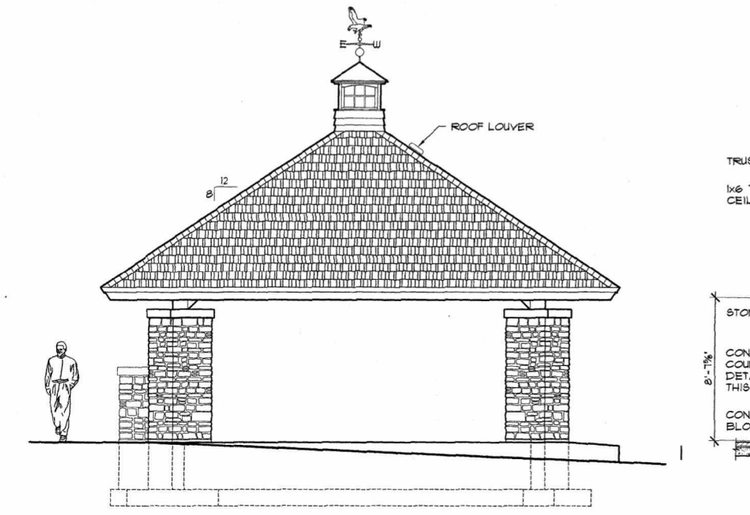
SCALE: ¼"=1'-Ø"



CEILING PLAN

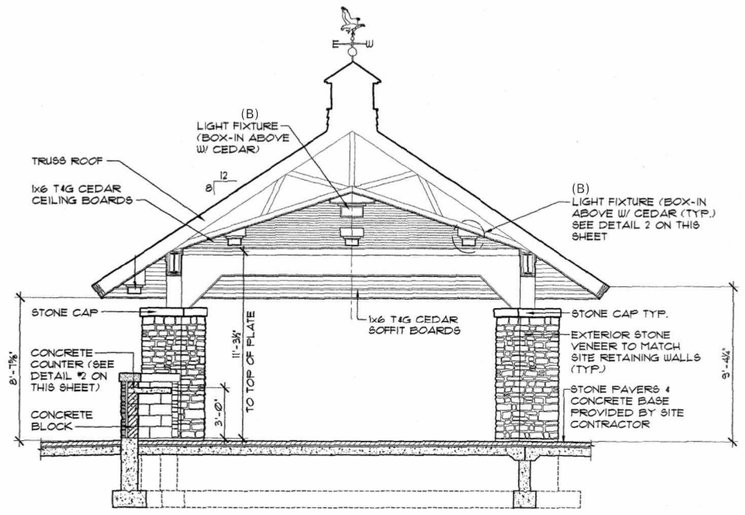
SCALE: ¼"=1'-Ø"

N



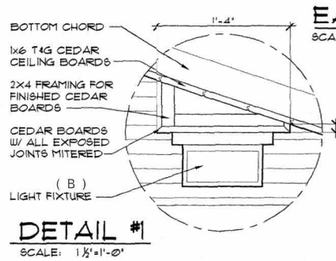
EAST ELEVATION

SCALE: ¼"=1'-Ø"



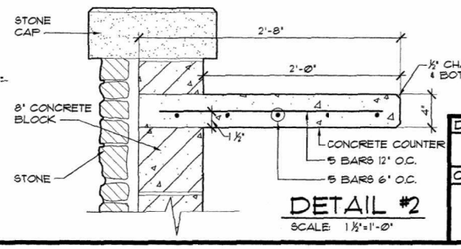
SECTION

A1 SCALE: ¼"=1'-Ø"



DETAIL #1

SCALE: 1½"=1'-Ø"



DETAIL #2

SCALE: 1½"=1'-Ø"

NOTES:

1. CONTRACTOR TO INSTALL LIGHT FIXTURE FACING UP. COORDINATE WITH PAVILION PROVIDER.

DRAWN BY:	REVISED		OPEN PAVILLION PLAN & ELEVATIONS	JOHN R. McLANE ARCHITECT	SHEET A1
AJL	1				
	2				OF 1
CHECKED BY:	3		HERITAGE CROSSING PAVILIONS	212 S. OTTAWA AVE. DIXON, ILLINOIS 61021 PHONE 815.284.6056 FAX 815.284.7717	
JRM	4		DIXON, ILLINOIS		DATE: 05/23/08
	5				

E-05

FILE = $FILE$

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOHII
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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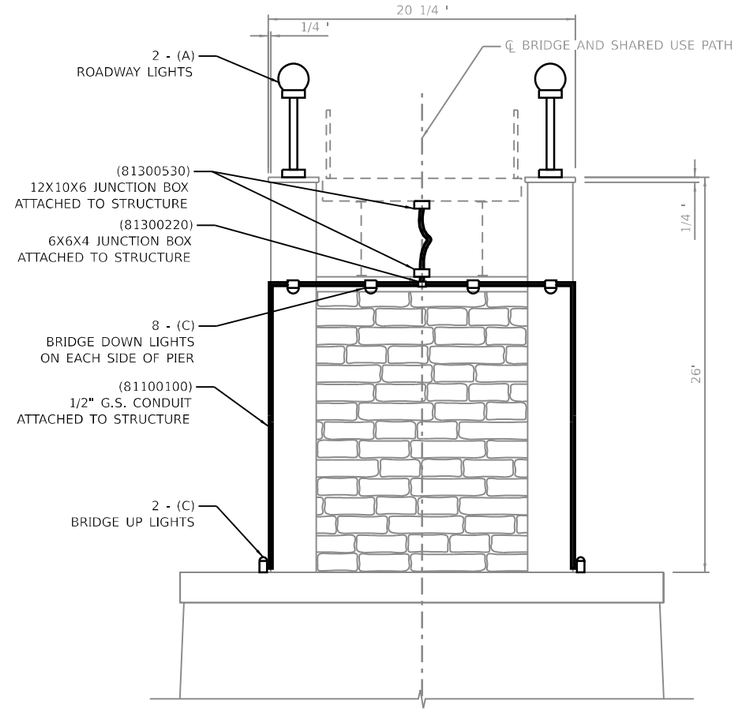
OPEN PAVILLION
PLAN AND ELEVATIONS
SHEET 06 OF 27

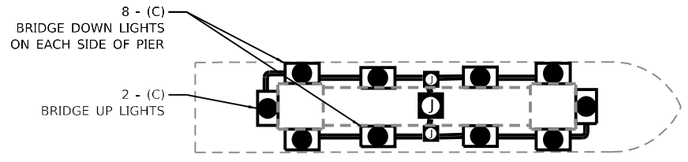
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	177
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

$PLTDRV$ $DATE$ $TIME$ = PLOTTED



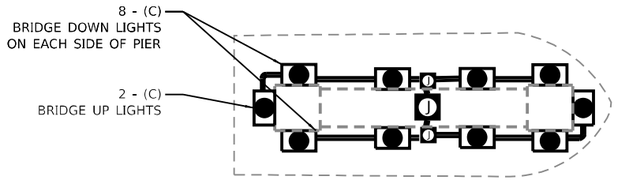
ELEVATION - PIER TYPE 1

(PIERS 1, 2, 5, 6, 7, 8 & 9)



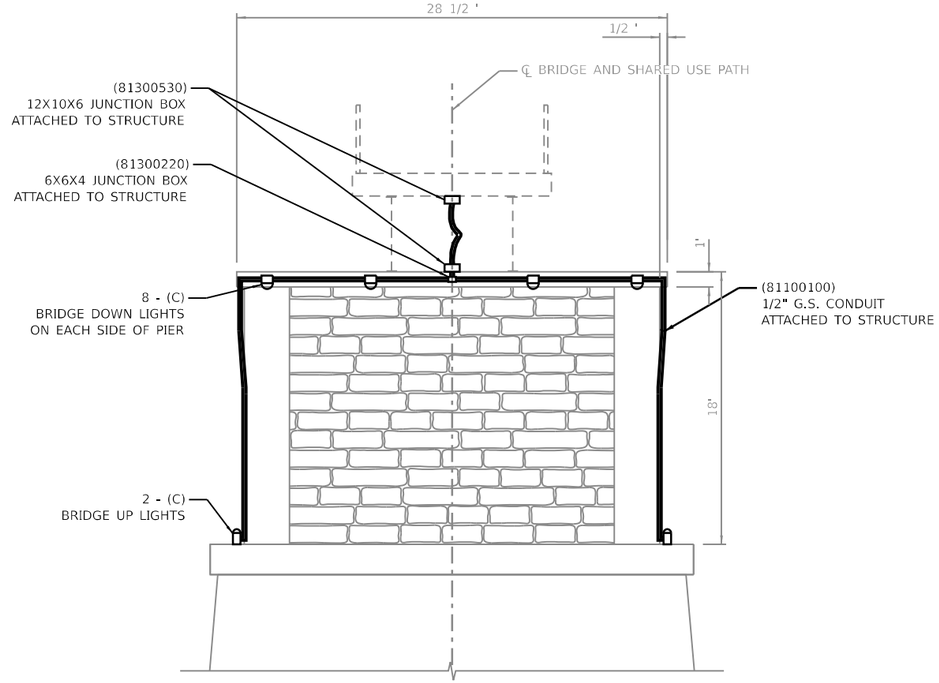
LIGHTING PLAN - PIER TYPE 1

(PIERS 1, 2, 5, 6, 7 & 8)



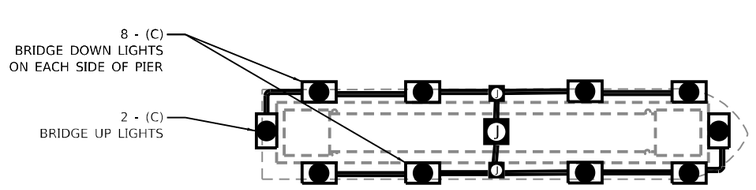
LIGHTING PLAN - PIER TYPE 1

(PIER 9)



ELEVATION - PIER TYPE 2

(PIERS 3 & 4)



LIGHTING PLAN - PIER TYPE 2

(PIERS 3 & 4)

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOHI
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PIER LIGHTING
ELEVATIONS AND PLANS

SHEET 07 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	178
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

$PLTDRVS$ $DATE$ $TIME$: PLOTTED

FILE = $FILE$

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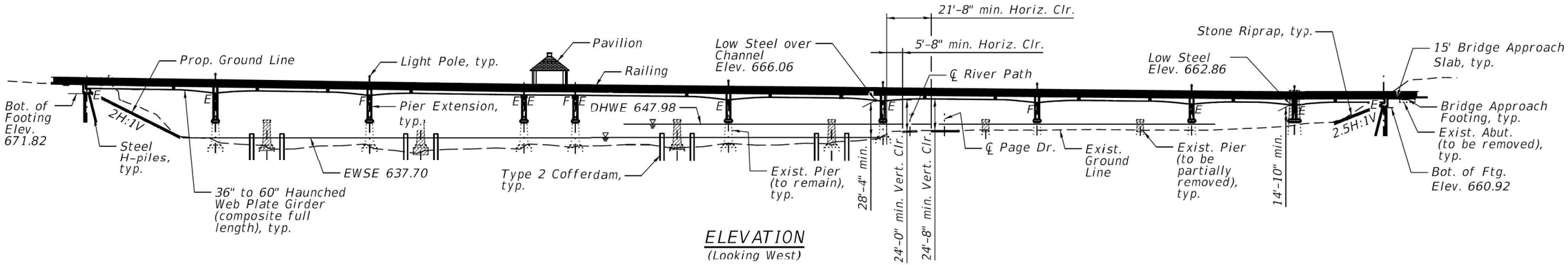
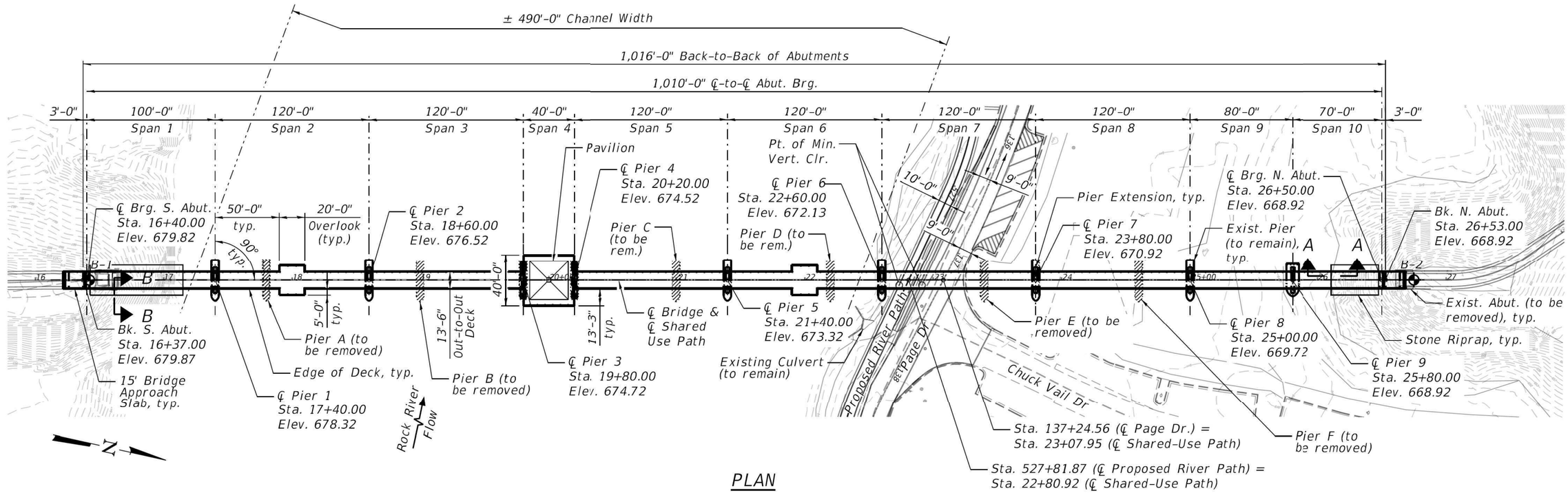
FOR REFERENCE ONLY



ELEVATION
(Looking West)



PLAN

E-07

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOHII
REVIEWED KK
APPROVED HM

DELTA ENGINEERING GROUP

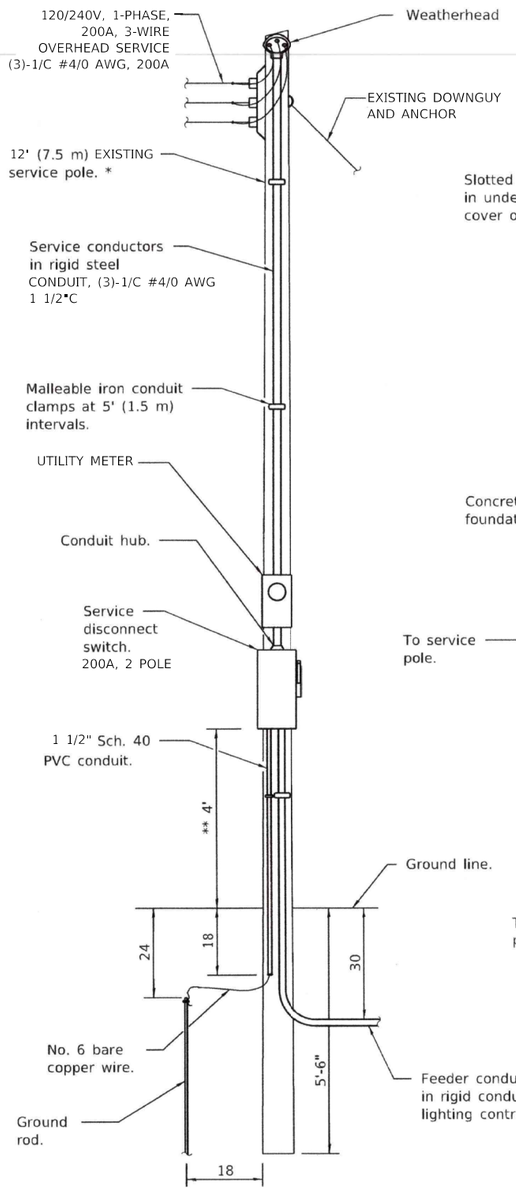
CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

SITE PLAN AND ELEVATION
REFERENCE ONLY
SHEET 08 OF 27

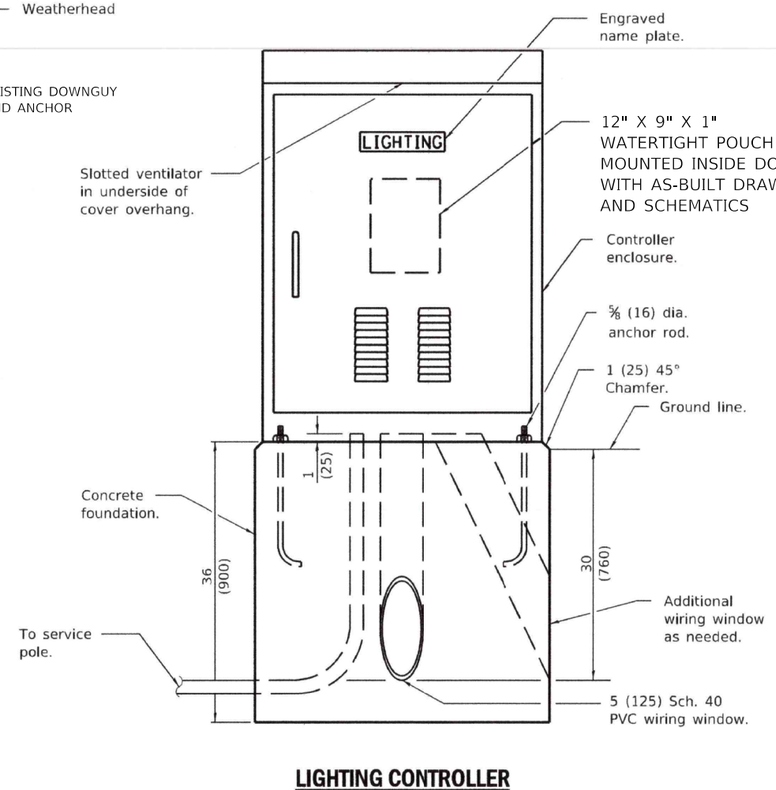
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	179
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

FILE = $FILE$



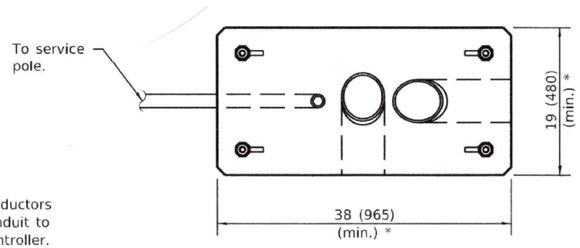
ELECTRIC SERVICE INSTALLATION

* Size larger as needed.
** Or as directed by Utility Company.



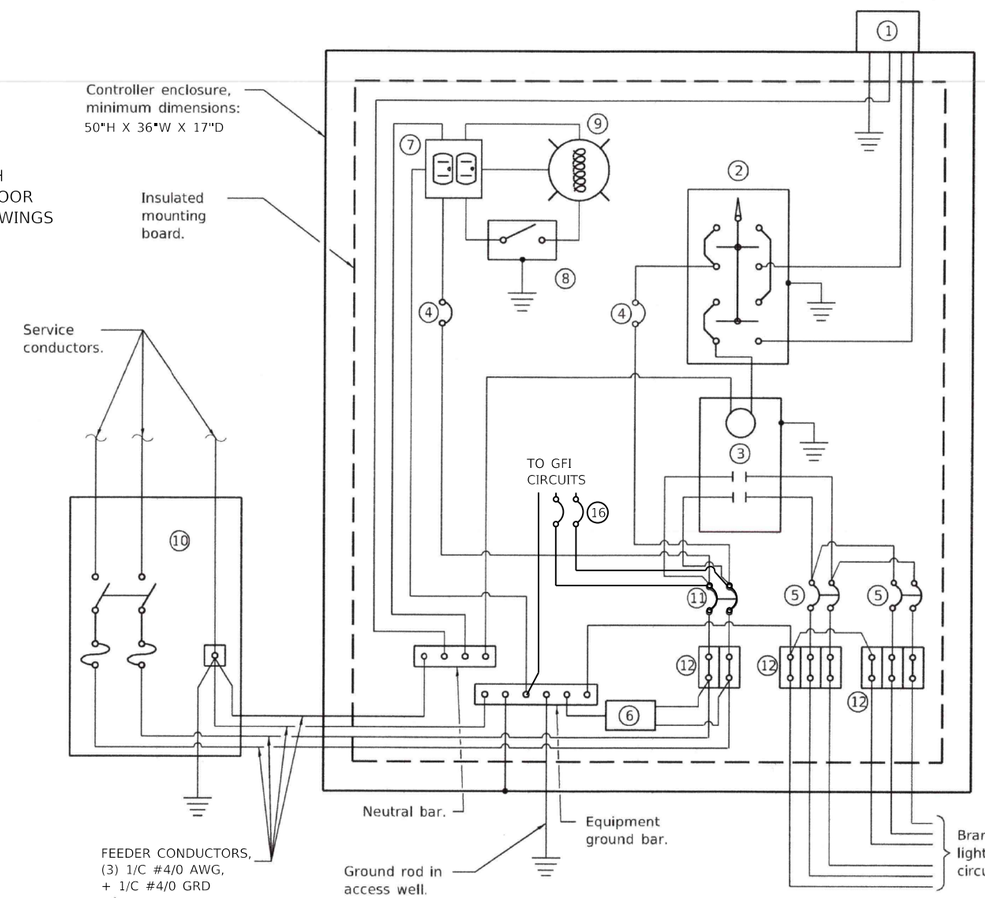
LIGHTING CONTROLLER

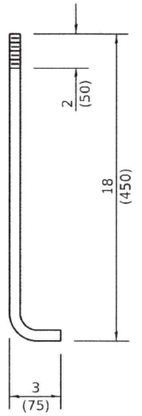
(NOTE: FOR THE CONTROLLER NOTES SEE SHEET LT-00)



FOUNDATION (PLAN)

(Work pad not shown.)





ANCHOR ROD DETAIL

CONTROL SCHEMATIC

1. PHOTOCELL WITH INTEGRAL SURGE ARRESTER.
2. HAND-OFF-AUTO SELECTOR SWITCH.
3. 200 AMP*, ELECTRICALLY HELD CONTRACTOR.
4. 15 AMP*, 1-POLE CIRCUIT: BREAKER
5. (7) 20 AMP*, 2-POLE CIRCUIT BREAKER
   (4) 20 AMP*, 1-POLE, CIRCUIT BREAKER
   (6) BLANK SPACES
6. SURGE ARRESTER.
7. GFCI DUPLEX RECEPTACLE.
8. SINGLE-POLE, SINGLE-THROW SWITCH.
9. LED LUMINAIRE, ENCLOSED AND GASKETTED WITH EQUAL TO 100 WATT LAMP
10. SERVICE DISCONNECT SWITCH -2-POLE, 3-WIRE, 200AMP*, FUSED AT 200 AMP*, SOLID NEUTRAL IN NEMA 4X ENCLOSURE HAVING LOCKABLE EXTERNAL HANDLE.
11. 200 AMP; 2-POLE MAIN CIRCUIT BREAKER
12. TERMINAL BLOCK SIZED FOR CONDUCTORS AS SHOWN ON PLANS
13. UNIVERSAL TIMER IS NOT SHOWN FOR CLARITY
14. FOR PANEL SCHEDULE SEE SHEET E-03.
15. CONTRACTOR TO PROVIDE COMPLETE WIRING DIAGRAM WITH PHOTOCELL AND TIMER
16. (2) 40 AMP*, 1-POLE CIRCUIT BREAKER
    (9) 20 AMP*, 1-POLE CIRCUIT BREAKER

NOTES

1. CONTRACTOR TO PROVIDE CONTROL PANEL SCHEDULE, SEE SHEET E-03.

E-08

REVISION	DATE	BY	REMARKS

DESIGNED AM
DRAWN LOH
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

LIGHTING CONTROLLER
BASE MOUNTED, 240V
SHEET 09 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	180
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

HADCO by signify

Urban

Refractive globe with Lumilock LED engine GX4

RL34/RL54 Post Top

Whether you are looking to beautify or add a sense of security and well-being to your outdoor space, the highly configurable Hadco LED refractive post tops paired with the latest LumiLock light engine GX4 will definitely help you achieve your goals. A multitude of exterior luminaire styles allow you to create promenades and areas exuding timeless, historical charm both day and night. The configurable LED light engine GX4 is an ideal alternative to HID sources, providing you with significant energy savings, and more choices for light levels, optics and controls. Includes Service Tag, Hadco's innovative way to provide assistance throughout the life of the product.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

Example: RL34 A A B A 1 A S N R7 W A 3 N N N N SP1

Series	Pod	Roof	Cage	Finial	Fastener	Finish	Optic	Pod Photo Control (location inside of pod)
RL54	**B**	**A**	**N**	**N**	**1**	**J**	**S**	**N**
RL34 Wide Body Type 3 **RL54** Wide Body Type 5	**A** Octagonal style **B** Round fitter with scalloped petals **H** Round contemporary **L** Round fluted long **T** Decorative leaf with scalloped petals	**A** Victorian **B** Acorn **C** Tall **D** Short **G** Adams	**B**[1] Cage for wide body globe **E** Band for wide body globe **F** Band for wide body globe **G**[1] Cage for wide body globe **I**[1] Cage for wide body globe **J**[1] Cage for wide body globe **N** None	**A** **B** **C**[2] **D**[2] **E**[2] **F** **G** **H** **N** None	**1** Hex head **2** Allen head	**A** Black **B** White **G** Verde **H** Bronze **J** Green	**S** Short **W** Wide	**E** 120 VAC Button Eye **H** 208/240/277 Button Eye **R**[3] 3 Pin Receptacle **N** None

				Optional programs			
Future Proof Photo Control	Color Temp	Voltage	Drive Current	Integral Control Options	Option 1	Option 2	Option 3	Surge Protection
N	**W**		**3**					
R5[3,4,5] 5 pin receptacle on the engine **R7**[3,4,7] 7 pin receptacle on the engine **N** None	**W** 3000K **N** 4000K	**A** 120-277 VAC **B** 347-480 VAC	**2**[7] 200mA **3** 350mA **4** 450mA **5**[7] 530mA	Dynadimmer[5,8] **DA** 4 Hrs 25% Reduction **DB** 4 Hrs 50% Reduction **DC** 4 Hrs 75% Reduction **DD** 6 Hrs 25% Reduction **DE** 6 Hrs 50% Reduction **DF** 6 Hrs 75% Reduction **DG** 8 Hrs 25% Reduction **DH** 8 Hrs 50% Reduction **DJ** 8 Hrs 75% Reduction **DL**[6] DALI **S**[9] FAWS Switch **N** None	**AST**[8] Adjustable start up time **N** None	**CLO**[8] Constant light output **N** None	**OTL**[8] Over the life **N** None	**SP1** 10kV/10kA Surge Protector **SP2**[6] 20kV/10kA Surge Protector

1 Not available with A pod.
2 Not available with B Roof.
3 Use of photoelectric cell (pod photo control (R) only) or shorting cap is required to ensure proper illumination. When R, R5, R7 options are selected, product will ship with shorting cap(s) installed.
4 Only available with A & B clear roof options. Not available with drive currents 4 or 5. RL 34 or 54 with S optic only available with A roof.
5 Optional Dynadimmer dimming schedules, DALI, AST, CLO, and OTL not available with 347-480 VAC.
6 When SP2 option is selected, luminaire will be fitted with SP2 instead of SP1.
7 Not available with B 347-480 voltage.
8 Not available with R5 or R7.
9 FAWS not available with CLO.

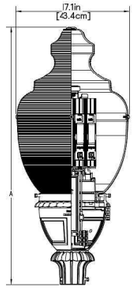
DLC LISTED

RL34/RL54 Refractive Globe with Lumilock LED engine GX4

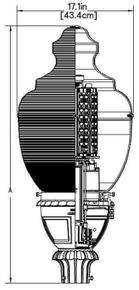
TYPE A

Dimensions

RL34 - Type 3

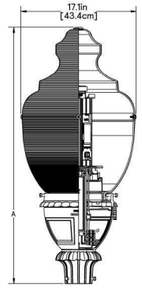


RL34BANNxxW configuration shown

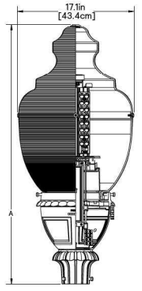


RL34BANNxxS configuration shown

RL54 - Type 5



RL54BANNxxW configuration shown



RL54BANNxxS configuration shown

Roof	dimension "A" (in)	(cm)
A Victorian	37.9	96.3
B Acorn	34.4	87.3
C Tall	36.3	92.2
D Short	32.0	81.3
G Adams	35.7	90.7

EPA: 2.09 sq. ft. (Varies depending on options selected)
Weight: 55lbs (maximum)

Dimensions will vary when other pod, cage and brim options are specified.
See specification text on pages 5 and 6 for option dimensions.

Housing Cptions

Fitter/Pod Otions

A Octagonal

B Round with Scalloped Petals

H Round Contemporary

L Round Fluted Long

T Decorative Leaf w/ Scalloped Petals

Roof Options

A Victorian

B Acorn

C Tall

D Short

G Adams

Cage/Band Options

B Cage for Wide Body Globe

E Band for Wide Body Globe

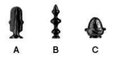
F Band for Wide Body Globe

G Cage for Wide Body Globe

I Cage for Wide Body Globe

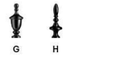
J Cage for Wide Body Globe

Finial Options



A **B** **C**

D **E** **F**



G **H**

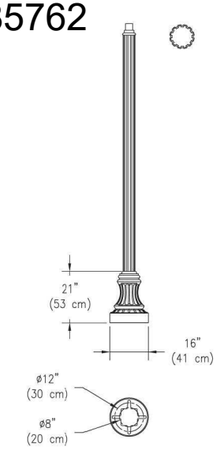
85762

HADCO by signify

Poles & Brackets

Urban Decorative

P2000 Series Poles



Hadco P2000 Series decorative aluminum poles provide a wide range of options in a timeless aesthetic. All poles are made in the USA and always open to a wide range of add-ons and customizations to meet any project need.

Ordering guide

P2065

Series	Pole height	Finish	Accessory Location (factory installed)	Pole Accessories	Tenon Options
P2065	12	J	T		
P2025	**8** 8ft [1]	**A** Black	**N** No Option	**N** No Option	**N** Standard Tenon - 3" OD x 3"
P2060	**10** 10ft	**B** White	**T** 12" Down from Top - Aligned with House Side	**D** Standard Duplex	**ISF** Internal Slip Fitter (for HFP Brackets)
P2061	**12** 12ft	**G** Verde	**B** 4" Up from Top of Base - Aligned with House Side	**G** GFI Duplex	**T4** 4" OD Tenon or 4" pole w/o standard 3" tenon (consult factory for 3" OD poles)
P2063	**14** 14ft	**H** Bronze	**Z** Custom	**M** Motion Control [3]	
P2065	**16** 16ft	**I** Gray			
P2071	**18** 18ft	**J** Green			
	20 20ft [2]	**Z** Custom [3]			

Note: Top outlets not available with the HFP arms. Consult factory for HFP arm outlet mounting.

Footnotes:
1. Not available on P2065 models
2. Only available on P2071 models
3. Consult factory for quotation

Anchor Bolts & Templates (ordered separately)

12NC	Description
912400110297	ANCHOR BOLT, 3/4-10x19x3, 4/PK
912400128329	AB TEMPLATE, P2000 (excl. P2060)
912400128328	AB TEMPLATE, P2060

Banner Arm Bracket

example: BA31A18B-A

Product Code	Pole Dia.	# of Arms	Materials	Length	Finial	Finish
BA	5"	2	A		B	J
BA Banner Arm Bracket	**3"** **4"** **5"**	**1** One **2** Two at 180°	**A** Aluminum	**18"** **24"** **30"**	**B** Ball	**A** Black **B** White **G** Verde **H** Bronze **I** Gray **J** Green **Z** Custom

Tie Down Bracket

example: TD32-H

Product Code	Pole Dia.	# of Arms	Finish
TD	5"	2	J
TD Tie Down Bracket	**3"** **4"** **5"**	**1** One **2** Two at 180°	**A** Black **B** White **G** Verde **H** Bronze **I** Gray **J** Green **Z** Custom

Flower Pot Bracket

example: FPB4212-B

Product Code	Pole Dia.	# of Arms	Length	Finish
FPB	5"	1	12	J
FPB Flower Pot Bracket	**4"** **5"**	**1** One **2** Two at 180°	**12"**	**A** Black **B** White **G** Verde **H** Bronze **I** Gray **J** Green **Z** Custom

P2065	P2065-10	5	Straight	Fluted, 12 Flat	10	0.188 - 0.267	3 x 3	73	8 to 12	16 x 21	5 x 8	3/4 x 19 x 3
P2065	P2065-12	5	Straight	Fluted, 12 Flat	12	0.188 - 0.267	3 x 3	82	8 to 12	16 x 21	5 x 8	3/4 x 19 x 3
P2065	P2065-14	5	Straight	Fluted, 12 Flat	14	0.188 - 0.267	3 x 3	90	8 to 12	16 x 21	5 x 8	3/4 x 19 x 3

E-09

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

LED POST TOP
DETAILS AND SCHEDULES

SHEET 10 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	181
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

TRACE LITE
BARRON
commercial & industrial lighting

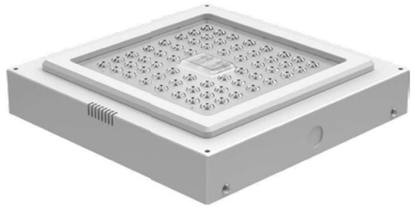
SCP-S Series

Surface Mount: Performance LED Canopy

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____



DESCRIPTION

The SCP-S is a low-profile 12" surface mount square canopy with a variety of precision engineered optics for application flexibility. This canopy optimizes optical performance and long-life with superior thermal management in an attractive and durable die-formed aluminum enclosure with a premium PMMA lens that does not yellow over time. This product can be easily surface or pendant mounted and is the ideal energy saving solution for applications including, but not limited to, parking garages, schools, office complexes, light commercial development, apartments, walkways, entryways and stairwells.

CONSTRUCTION

- Precision die-formed aluminum enclosure and backplate with stainless steel hardware
- White powder coat finish, custom colors available upon request
- IP65 rated light engine compartment
- Single ¾" side knockout

OPTICS/LEDS

- UV-stabilized polymethyl methacrylate (PMMA) optics that will not yellow over time
- Garage optics provides a type V short symmetric square distribution with light focused in the 60° to 80° zones to optimize spacing with even light distribution
- Performance optic provides a type VS (square) very short distribution and offers more light in the 30° to 60° zones, ideal for higher mounting heights over 12'
- Low glare optic provides excellent Type VS (square) short distribution with exceptional glare control
- From 20W to 67W with up to 9016 lumens for maximum project flexibility
- Efficacies up to 134 LPW maximize energy savings and utility rebates
- 4000K CCT and 5000K CCT
- L70 of 190,000 hours
- CRI ≥71

ELECTRICAL

- 120-277VAC, 50/60Hz
- 0-10V Dimming driver

INSTALLATION

- Fixture enclosure is attached to backplate by four white fasteners
- Backplate easily attaches to a recessed 3" or 4" J-box
- Pendant mounted using standard ½" downrod and hardware (supplied by others)

OPTION

- Integral battery backup (BB) offers over 900 lumens and 90 minutes of runtime for path of egress. Rated for ambient temperatures between 0°C to 40°C (32°F to 104°F). Battery backup option available on the SCP-S-20-P-VS-4K-WH only.

TESTING & COMPLIANCE

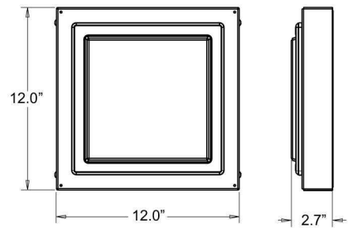
- cETLus Listed to UL1598 for Wet Locations for covered canopy applications
- Operating temperatures: -40°C to 40°C (-40°F to 104°F)

WARRANTY

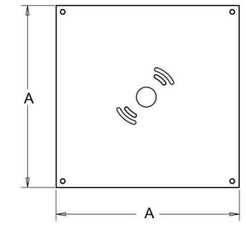
- Five year warranty (terms and conditions apply)

Specs At A Glance*				
Wattage (W)	20	36	50	67
Lumens (lm)	2670	4815	6586	8940
Efficacy (LPW)	130	133	131	133
Equivalency (HID)	70W	100W	150W	250W
Distribution	Garage (G) - Type VS Square Short Low Glare (LG) - Type VS Square Short Performance (P) - Type VS Square Very Short			
CCT	4000K, 5000K			
CRI	≥71			
Input Voltage	120-277VAC, 50/60Hz, 0-10V Dimmable			
Operating Temp	-40°C to 40°C (-40°F to 104°F)			
Certifications	cETLus Listed, Wet Locations Covered Canopy			
Warranty	5 Years			
Weight	7.0 lbs			

DIMENSIONS



TRANSITION PLATE DETAILS

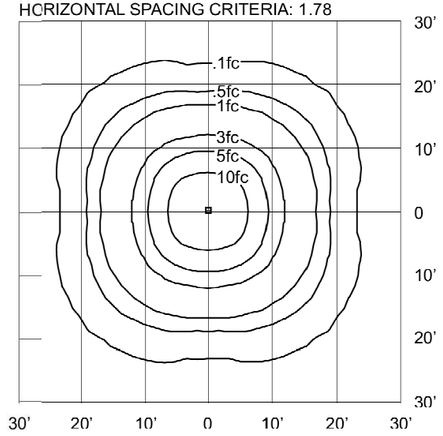


Accessory	A
MC-TR16	16"
MC-TR24	24"

SAMPLE PHOTOMETRICS

SCP-S-36-P-VS-4K

IES: Type VS Square Very Short
MOUNTING HEIGHT: 10'
HORIZONTAL SPACING CRITERIA: 1.78



Specifications are subject to change without notice.
Installation must be performed in accordance with Barron Lighting Group installation instructions.
10810374 Rev 6

BARRON lighting group
800.533.3948 • www.barronltg.com

HADCO by signify

Landscape

BL9 FlexScape LED

Accent Aluminum

Breaking new ground with optimal versatility, the **FlexScape BL9** has zoomable optics (15° to 35°) & 60° by switching optic element. This adjustable luminaire also has the ability to switch light output in 4 steps.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: BL9DW-AS7

Series	Lamping	CCT	Finish	Mount
BL9	D	☐ –	☐	S7
BL9 Low Voltage 9W Bullet Lighting	**D** LED	**W** Warm (3000K) **C** Cool (4000K)	**A** Black **H** Bronze	**S7** Stake

Features

1. Housing/Construction: A360° die-cast aluminum, tool-less twist off/on shroud. Teeth to lock aim the knuckle arm for accurate aiming secured by black oxide Phillips-head stainless steel screw and metal locking nut to provide durable mounting of the accent. A 360° die-cast aluminum housing for driver with thermal management creates continuity with housing by repeating similar shape. All gaskets are 100% molded silicone.
2. Electrical: 10W (on high setting) Input voltage range (VAC): 10-14. Pre-wired with a 3-ft. pigtail for easy hookup to the low voltage supply cable. Driver housed in injected molded case with electronics encapsulated. 12V class 2 driver with integral switch for 4 preset light levels.
3. LED Board and Array: Single Luxeon M LED.
4. Controls: 12 Volt Class 2 driver with integral switch provides simple customer access to the adjustment between 4 present light levels.
5. Optical Systems: Flat glass, low iron tempered clear glass, c-channel gasket slips onto lens without tools or RTV. Zoomable optic / Injection molded acrylic (PMMA) clear, highly polished molded with select surfaces textured. Zoomable lens provides Narrow 15° to Medium 35° beam pattern depending on the position, Inter-changeable lens provides Wide 60 flood output.
6. Mounting: 1/2"-14 NPSM male threads to screw onto mounting stake, or other mounting accessory, sold separately.

Finish

Thermoset polyester powder coat is electrostatically applied after a five-stage conversion cleaning process and bonded by heat fusion thermosetting.

Lamps

Integral LED module

Watts Consumed /Needed to Drive	2.0W	4.5W	8.6W	10.7W
mA	230	600	1100	1500
3K 15°	113	241	429	567
3K 35°	132	284	505	669
3K 60°	111	241	428	561
4K 15°	131	269	477	602
4K 35°	155	316	562	710

Power Supply

Fixtures can be used with the HADCO Low Voltage Transformers series TC152, TSS, TC. Power supplies are available in 150W / 300W / 600W and 900W.
Ask your Philips representative for a full list of options.

IP66 Rating

Dust tight and sealed against direct jets of water.

Labels

ETL Listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. 5-year limited warranty.

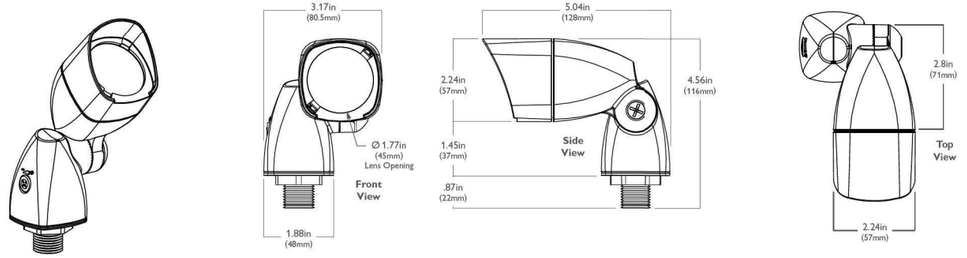
85762

TYPE C

BL9 FlexScape LED

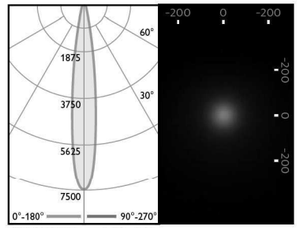
Accent aluminum

Dimensions



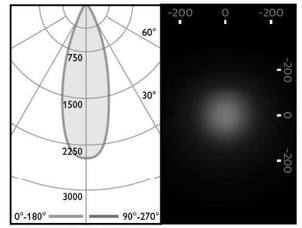
BL9 Warm 3000K

Spot
minimum output



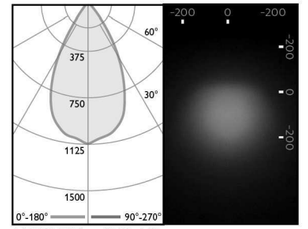
TR140208 SYM (cd/1000lm) L.O.R.= 1.00

Narrow Flood
minimum output



TR140211 SYM (cd/1000lm) L.O.R.= 1.00

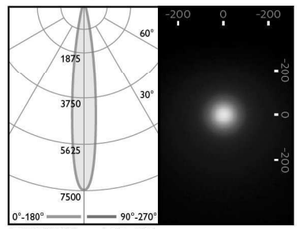
Flood
minimum output



TR140237 SYM (cd/1000lm) L.O.R.= 1.00

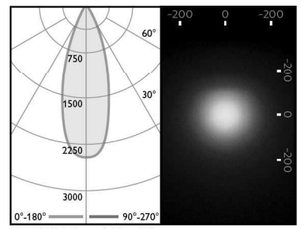
BL9 Cool 4000K

Spot
maximum output



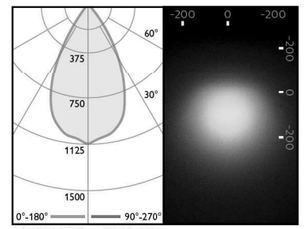
TR140210 SYM (cd/1000lm) L.O.R.= 1.00

Narrow Flood
maximum output



TR140213 SYM (cd/1000lm) L.O.R.= 1.00

Flood
maximum output



TR120237 SYM (cd/1000lm) L.O.R.= 1.00

signify

Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008

E-11

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

LED UP/DOWN PIER LIGHT
DETAILS AND SCHEDULES
SHEET 12 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	183
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

FILE = $FILE$

85762

GARDCO by Signify

Site & Area
PureForm
P26 medium area light with comfort optics

TYPE D

Gardco PureForm LED area medium comfort P26 features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 2, 3, and 5 optical distributions are availble. A full range of control options provides additional energy savings.

Project:
Location:
Cat.No:
Type:
Lumens: Qty:
Notes:

Ordering guide

example: P26-196L-650-NW-G2-AR-5-120-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
P26	196	1150	WW-G2		2	240
P26 PureForm area medium, 26"	**196L** 196 LEDs (comfort engine) **140L** 140 LEDs (comfort engine)	**450** 450mA **650** 650mA **1150** 1150mA **1675** 1675mA **2100** 2100mA	**WW-G2** Warm White 3000K, 80CRI Generation 2 **NW-G2** Neutral White 4000K, 80CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2 **WY-G2** Warm Yellow 2700K, 80 CRI Generation 2[1] **BW-G2** Balanced White 3500K (80 CRI) Generation 2[1] **AM-G2** Amber Generation 2[1,13]	**AR** Arm Mount (standard)[2] The following mounting kits must be ordered separately (See accessories) **SF** Slip Fitter Mount[3] (fits to 2³/₈" O.D. tenon) **WS** Wall mount with surface conduit rear entry permitted **RAM** Retrofit arm mount kit[2]	**Type 2** **2** Comfort Type 2 **Type 3** **3** Comfort Type 3 **Type 5** **5** Comfort Type 5	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)

Options

Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	Finish
					BK
DD 0-10V External dimming (controls by others)[4] **FAWS** Field Adjustable Wattage Selector[4,5] **LLC** Integral wireless module[4,6,7,15] **BL** Bi-level functionality[4,15] **DynaDimmer:** Automatic Profile Dimming **CS50** Security 50% Dimming, 7 hours[4,7] **CM50** Median 50% Dimming, 8 hours[4,7] **CS30** Security 30% Dimming, 7 hours[4,7] **CM30** Median 30% Dimming, 8 hours[4,7]	**IMRI2** Integral with #2 lens[13] **IMRI3** Integral with #3 lens[13]	**PCB** Photocontrol Button[7,8] **TLRD5** Twist Lock Receptacle 5 Pin[9] **TLRD7** Twist Lock Receptacle 7 Pin[9] **TLRPC** Twist Lock Receptacle w/Photocell[8,10]	**Fusing** **F1** Single (120, 277, 347VAC)[8] **F2** Double (208, 240, 480VAC)[8] **F3** Canadian Double Pull (208, 240, 480VAC)[8] **Pole Mount Fusing** **FP1** Single (120, 277, 347VAC)[8] **FP2** Double (208, 240, 480VAC)[8] **FP3** Canadian Double Pull (208, 240, 480VAC)[8] **Surge Protection** (10kA standard) **SP2** Increased 20kA	Square Pole Adapter included as standard **TB** Terminal Block **RPA** Round Pole Adapter (fits to 3"- 3.9" O.D. pole)[11]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Mounts to a 4-5" OD round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Must specify input voltage.
9. Dimming will not be connected to NEMA receptacle if ordering with other control options.
10. Not available in 480V. Order photocell separately with TLRD5/7.
11. Not available with SF and WS. RPAs provided with black finish standard.
12. Not available in 2100mA
13. Not available with DD and FAWS dimming control options.
14. Not available with DD, FAWS, BL, LLC dimming control options (DynaDimmer required).
15. Must specify a motion sensor lens.

P26 PureForm LED medium

Area light with comfort optics

TYPE D

Dimensions

Standard Arm (AR)
Weight: 27 Lbs (12.4 Kg) EPA: 0.26ft² (.024m²)

Wall (WS)
Weight: 30 Lbs. (13.7 Kg) EPA: 0.30ft² (.028m²)

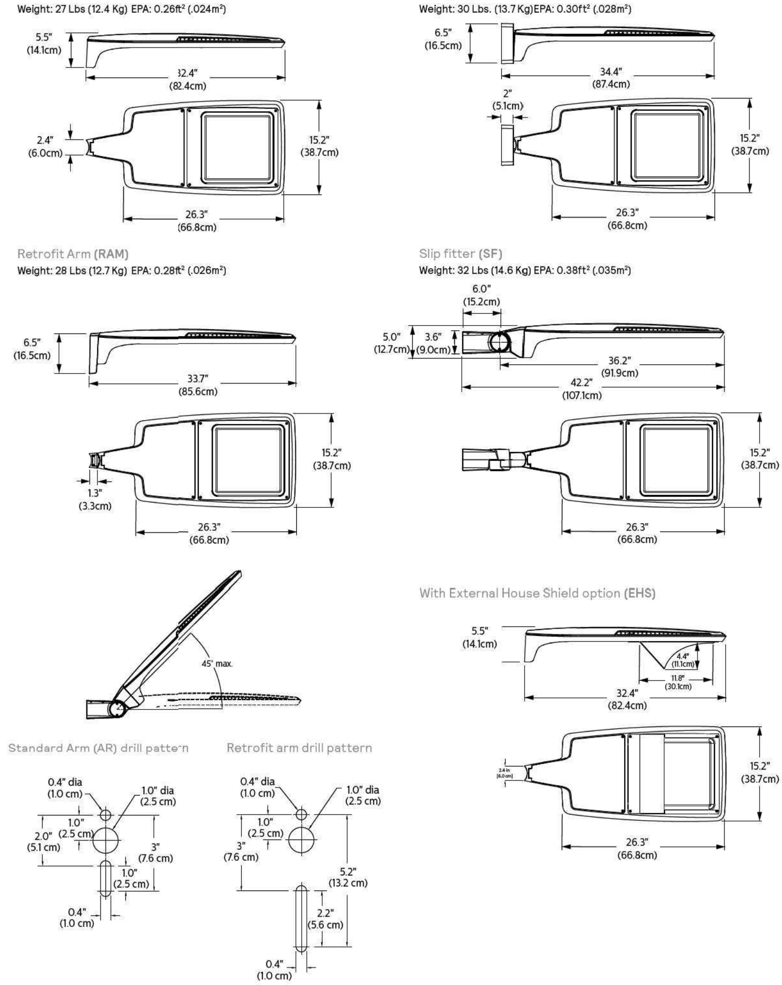
Retrofit Arm (RAM)
Weight: 28 Lbs (12.7 Kg) EPA: 0.28ft² (.026m²)

Slip fitter (SF)
Weight: 32 Lbs (14.6 Kg) EPA: 0.38ft² (.035m²)

With External House Shield option (EHS)

Standard Arm (AR) drill pattern

Retrofit arm drill pattern



GARDCO

Poles & Brackets
Site and Area Poles
Straight Round Steel

The **Gardco SRS Straight Round Steel** pole consists of a one-piece high tensile carbon steel tube welded and secured to the carbon steel base plate providing excellent strength and integrity. The poles are finished with an electrostatically applied, thermally cured polyester powdercoat. All poles include base cover, hand hole, ground lug and top cap. Anchor bolts and templates are ordered as a separate accessory.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: SRS-CB-5-7-25-T2D4L-N-BZ

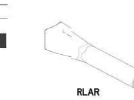
Family	Base	Pole Shaft Size (in.)	Pole Gauge/ Wall Thickness	Height (ft)[5]	Drilling/Tenon Configurations[1]	Drilling Template[2]	Finish	Options[3]
	CB				D1		BK	GFI
SRS	**CB** Carbon Steel Base w/ Base Cover	3	11 — 11 ga. / 0.120"	10 12 14 16	**Drilling** **D1** 1 Way **D1@180** 1 Way @ 180 **D2** 2 Way @ 180 **D2@90** 2 Way @ 90 **D3** 3 Way @ 90 **D3@120** 3 Way @ 120 **D4** 4 Way @ 90	**DT1** Drill Template 1 **DT2** Drill Template 2 **DT3** Drill Template 3 **DT4** Drill Template 4 **DT5** Drill Template 5 **DT6** Drill Template 6 See drill template chart for details. **[DTX-xxx]**[6,7] Custom Template	**BK** Black **BZ** Bronze **WH** White **DG** Dark Grey **MG** Medium Grey **GY3**[8] Light Grey, Smooth **SSDGY**[8] SolarForm Dark Grey (RAL7011) **GV** Galvanized (No Paint) **FP/GV** Finished Textured Paint over Galvanized (Specify, ex: MG/GV) **OC** Optional Color Paint (ex: RAL7024) **SC**[6] Special/Custom Color (Specify, must supply color chip)	**FES**[6] Festoon Outlet **VDA**[11] Vibration Dampener **AHH**[6] Additional Hand Hole **DR**[6,8] Duplex Receptacle **VPA** Vandalproof Screws **GFI**[6] DR with GFI (120V only) **BAC**[9] Buy American Compliant **CL1/2**[6] Coupling 1/2" **CL3/4**[6] Coupling 3/4" **CL1**[6] Coupling 1" **CL1-1/4**[6] Coupling 1-1/4" **CL1-1/2**[6] Coupling 1-1/2" **NL1/2**[6] Nipple 1/2" **NL3/4**[6] Nipple 3/4" **NL1**[6] Nipple 1" **NL1-1/4**[6] Nipple 1-1/4" **NL1-1/2**[6] Nipple 1-1/2" For FES, AHH, DR, GFI, CL* and NL* options, indicate height in inches above base and orientation to hand hole. See page 2 and 3 for details.
		4	11 — 11 ga. / 0.120"	10 12 14 16 20 25	**Tenons** **T2D4L** 2-3/8" OD x 4" length **T2D6L**[8] 2-3/8" OD x 6" length **T3D4L** 3" OD x 4" length **T4D6L** 4" OD x 6" length	**N** No Drilling Template (for Tenon and Plain Top Options)		
L/SRS		5	11 — 11 ga. / 0.120"	20 25 30	**No Drilling/No Tenon** **P** Plain Top			
			7 — 7 ga. / 0.180"	25 30				

1. See Drilling Configurations on Page 3.
2. See Luminaire Drilling Templates on Page 3
3. Not all options available with all configurations. Consult factory for more details
4. Options listed with gray text will be shipped with the Legacy SRS design. Use the L/SRS family code whenever these options are specified.
5. Pole heights can be cut to length. Specify as a whole number in ft. (ex. 11, 13) or to the inch as a decimal (ex. 15.33 = 15' 4") or as "15FT 4IN" for Legacy designs.
6. Option must be specified, including install location, by the customer before order release. FES, DR, GFI, AHH options typically must be placed 12-18" away from standard hand hole (20" or 12" above base).
7. Custom drill templates (DTX) require factory quote.
8. Option not available with Legacy SRS designs.
9. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
10. Consult Signify to confirm whether specific accessories are BAA-compliant.
11. Not available with 3" shaft size.

Accessories[10]

Service	Pole Size	12NC	Description (Diameter x Length x Hook)
Anchor Bolts + Templates			
For shipment with the pole (order 1 per pole)	3" Poles	912401597399	AB 3/4x17x3-G DEC w/ 8.5 BC ABT
	4" & 5" Poles	912401597397	AB 3/4x24x3-G DEC w/ 8.5 BC ABT
For Pre-Ship service (order 1 per pole)	3" Poles	912401597407	AB 3/4x17x3-G DEC w/ 8.5 BC ABT-RS
	4" & 5" Poles	912401597405	AB 3/4x24x3-G DEC w/ 8.5 BC ABT-RS

Part No.	Pole Size	Description
RLAR-1A-R4@4.9-(finish)	4" Poles	Cast Aluminum mounting arm, 15" long with DT6 drill pattern (order 1 per luminaire). For use with Lumec Roadway and Gardco SolarForm luminaires. (For SolarForm: use RLAR bracket to mount horizontally, use T2D6L tenon to mount vertically). Specify finish to match pole.
RLAR-1A-R5@6-(finish)	5" Poles	



RLAR

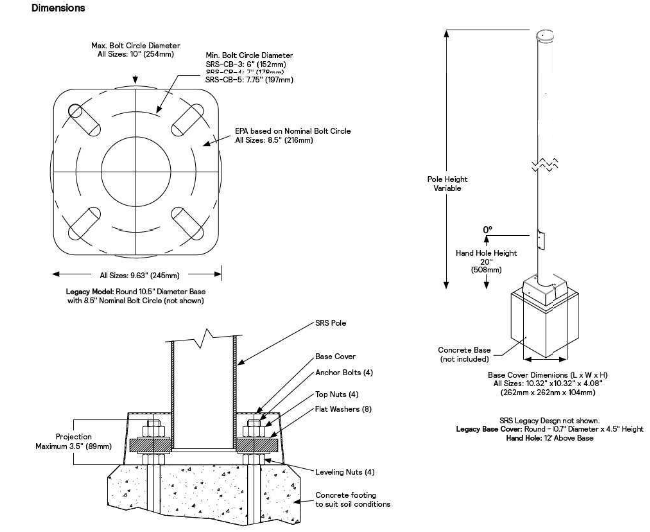
Poles Straight Round Steel

Quick Ship ordering guide

example: SRS-CB-4-11-20-D1-DT5-BZ-RS

Family	Base	Pole Shaft Size (in.)	Pole Gauge/ Wall Thickness	Height (ft.)[5]	Drilling Configuration	Drilling Template	Finish	Options
SRS Straight Round Steel	**CB** Carbon Steel Base w/ Cover	4	11 — 11 ga. / 0.120"	20 25	**D1** 1 Way **D1@180** 1 Way @ 180 **D2** 2 Way @ 180 **D2@90** 2 Way @ 90 **D3** 3 Way @ 90 **D3@120** 3 Way @ 120 **D4** 4 Way @ 90	**DT5** Drill Template 5	**BZ** Bronze **MG** Medium Grey **BK** Black	**RS** RapidShip*

Dimensions



* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.
**Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

E-12

REVISION	DATE	BY	REMARKS

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DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

LIGHTING FIXTURE DETAIL

SHEET 13 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	184
	WHA# 1369D22	CONTRACT NO. 85762		

SCALE: AS NOTED | ILLINOIS | FED. AID PROJECT 5LY7(916)

FILE = $FILEL$
$DATE$
$PLTDRVS$

1 1/4"C PVC SCH. 40
CKT# 17/19
3-1/C #6 + 1/C #8GRD FOR LIGHTING
2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

MATCHLINE STA. 36+00.00
FOR CONTINUATION SEE SHEET E-15

MATCHLINE STA. 30+00.00

MATCHLINE STA. 30+00.00

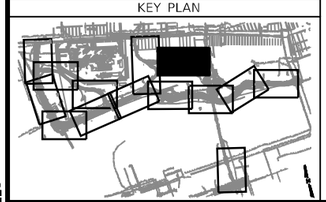
1 1/4"C PVC SCH. 40
CKT# 17/19
3-1/C #6 + 1/C #8GRD FOR LIGHTING
2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

BRIDGE ENDS MATCHLINE STA. 26+68.50

N

0 20 40 60
SCALE IN FEET

KEY PLAN



REVISION	DATE	BY	REMARKS

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DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

HILL PATH
PROPOSED LIGHTING PLAN
SHEET 14 OF 27

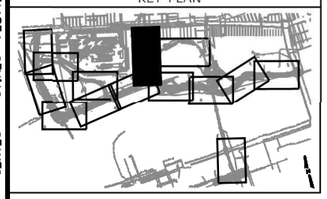
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	185
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

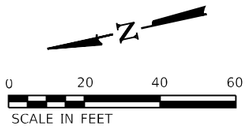
E-13

FILE = $FILE$ $TIME$ = PLOTTED $DATE$ $PLTDRVS$

85762

KEY PLAN





E-14

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON *Here to Serve*

HILL PATH
PROPOSED LIGHTING PLAN

SHEET 15 OF 26

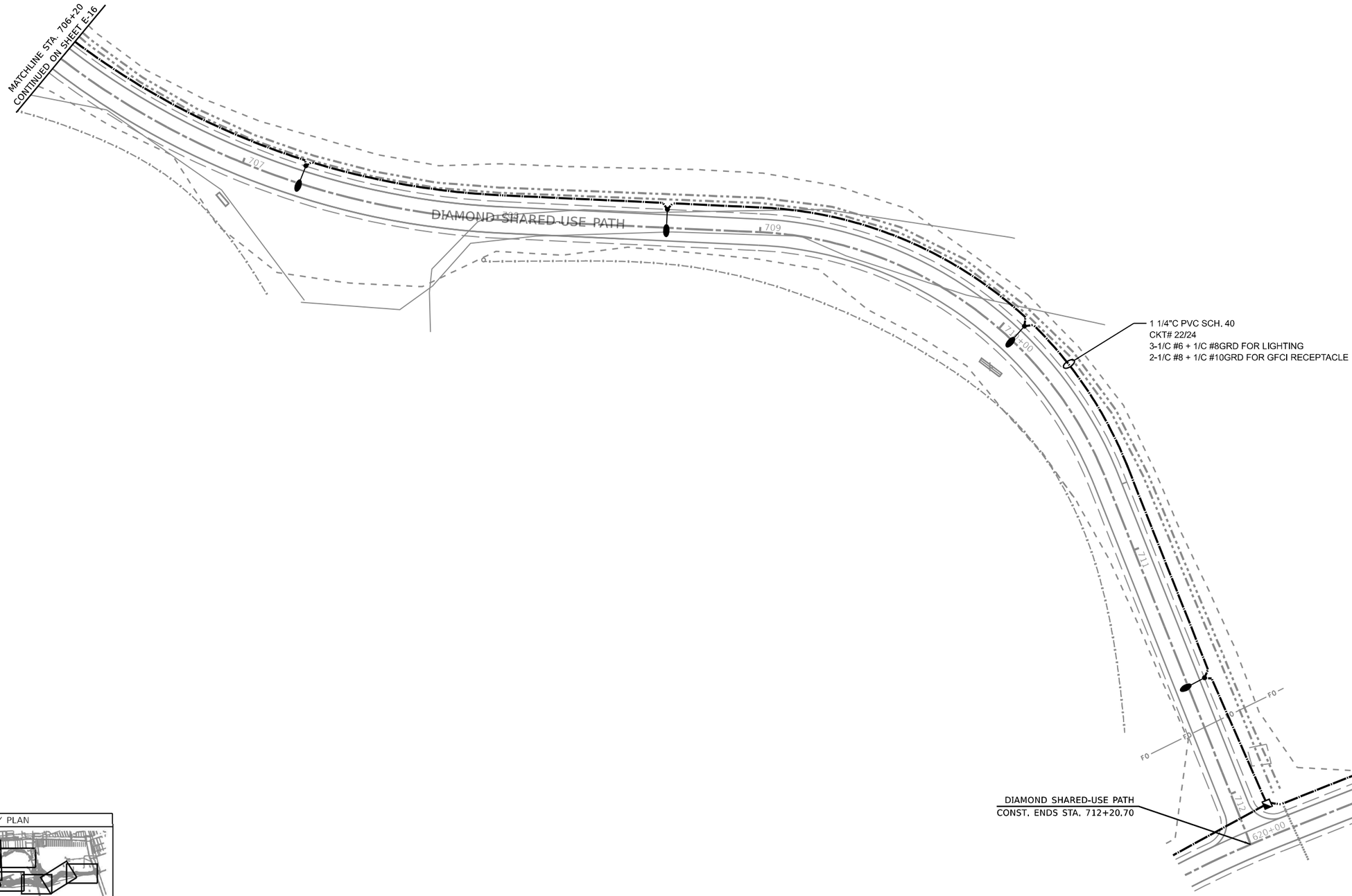
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	186
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

FILE = $FILE$

$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

85762



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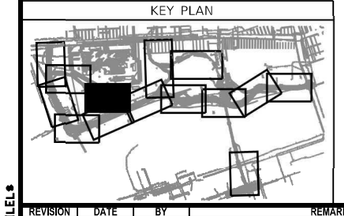

E-15

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

DIAMOND PATH
PROPOSED LIGHTING PLAN - PART B

SHEET 16 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	187
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT STP-7(916)		

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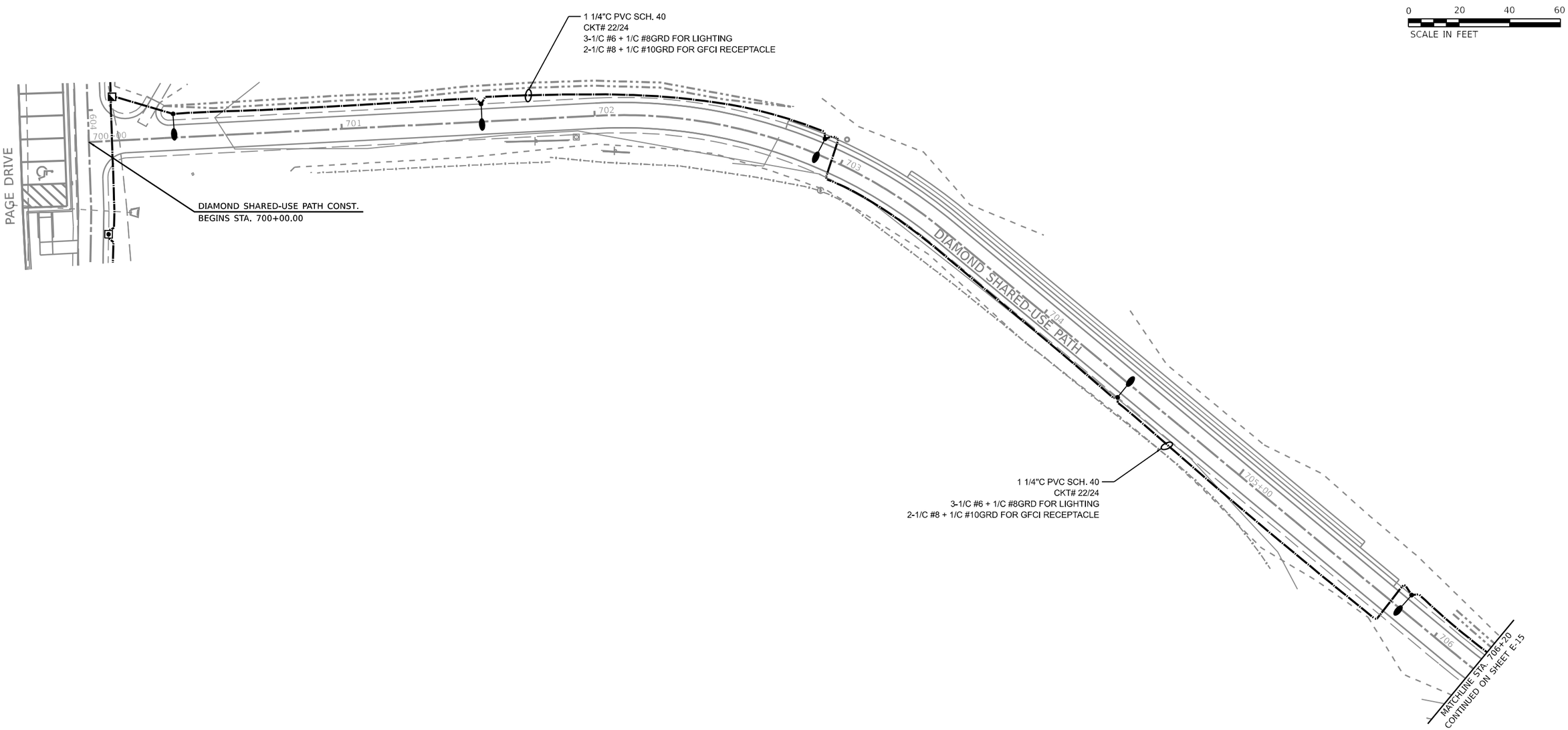
85762



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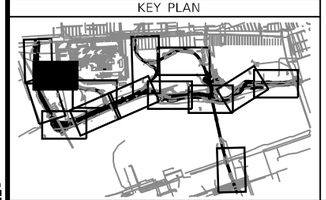

E-16

REVISION	DATE	BY	REMARKS

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DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

DIAMOND PATH
PROPOSED LIGHTING PLAN - PART A

SHEET 17 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	188
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

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$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

85762

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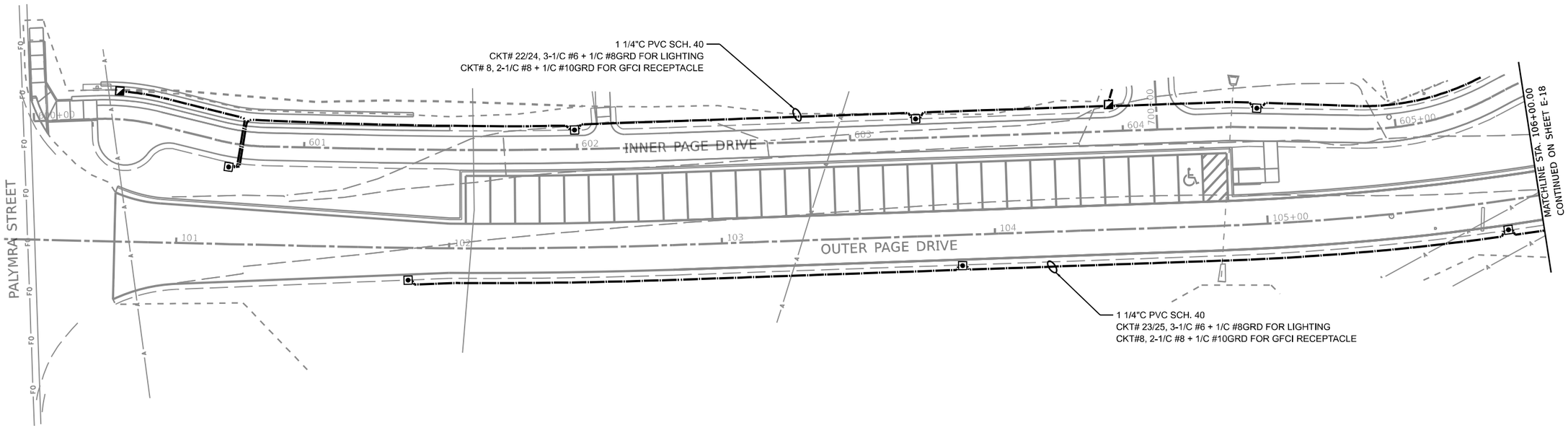
SCALE IN FEET



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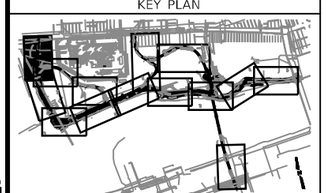

E-17

REVISION	DATE	BY	REMARKS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 18 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	189
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

FILE = $FILEL$

85762

N

0 20 40 60

SCALE IN FEET

1 1/4"C PVC SCH. 40
CKT# 22/24, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT# 8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

MATCHLINE STA. 106+00.00
CONTINUED ON SHEET E-17

606 607 608 609 610+00 611

INNER PAGE DRIVE

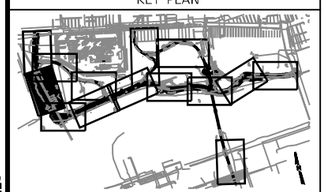
107 108 109 110+00 111

OUTER PAGE DRIVE

MATCHLINE STA. 112+00.00
CONTINUED ON SHEET E-19

1 1/4"C PVC SCH. 40
CKT# 23/25, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT#8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

KEY PLAN



E-18

REVISION	DATE	BY	REMARKS

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DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 19 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	190
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SIY7(916)		

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$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

$PLTDRVS$ $DATE$ $TIME$: PLOTTED

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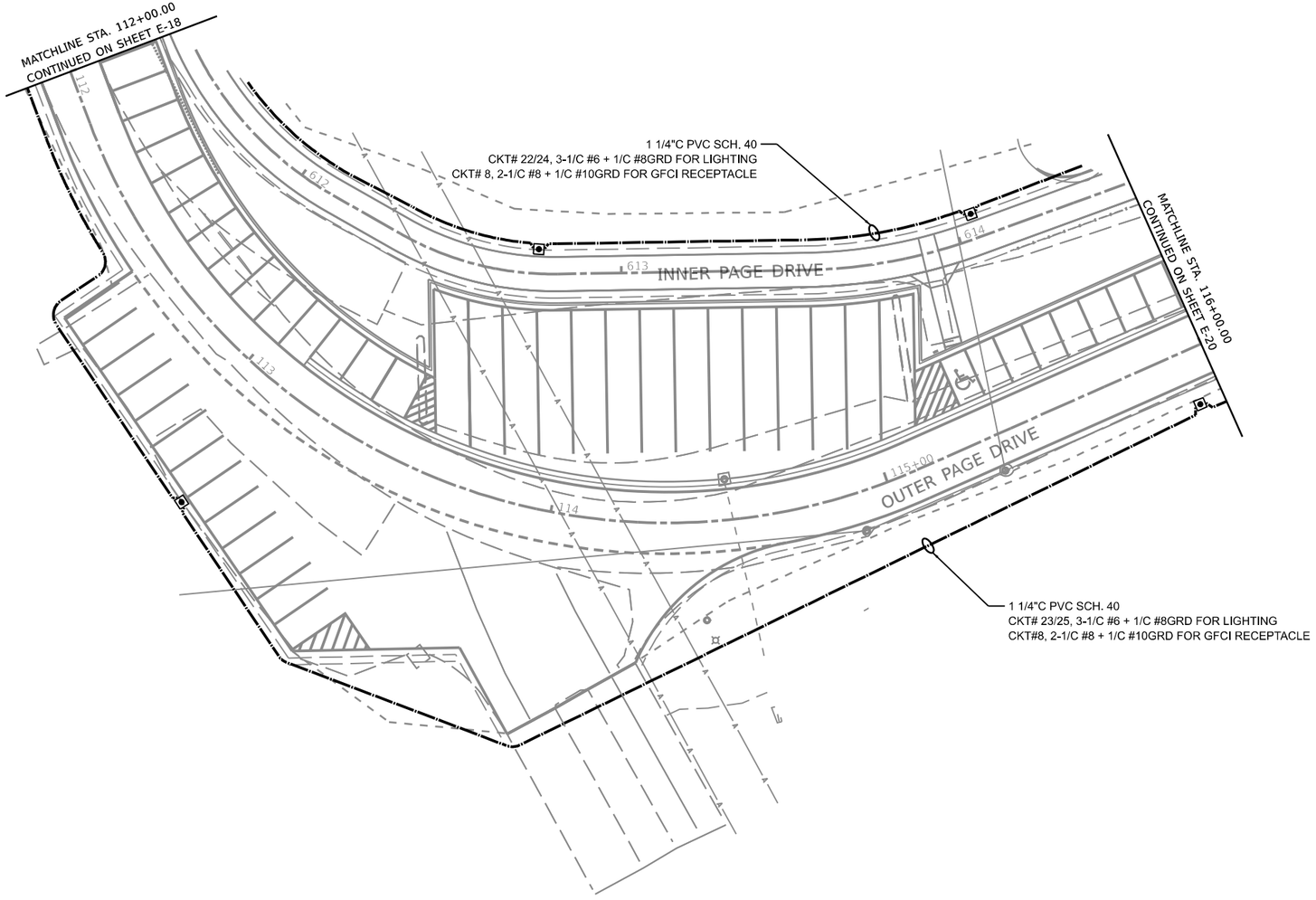

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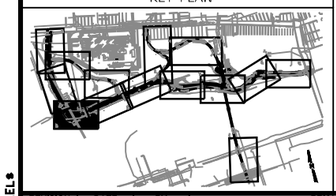

E-19

REVISION	DATE	BY	REMARKS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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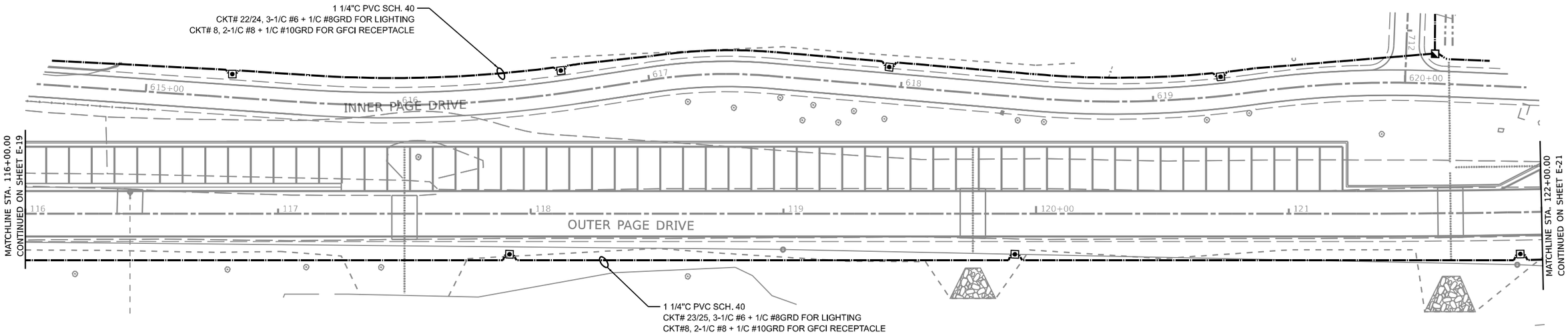
PAGE DRIVE (INNER AND OUTER)
LIGHTING PROPOSED PLAN

SHEET 20 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	191
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5IY7(916)		

FILE = $FILEL$

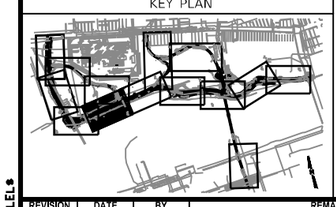
85762



N

0 20 40 60
SCALE IN FEET

KEY PLAN



E-20

REVISION	DATE	BY	REMARKS

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DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 21 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	192
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

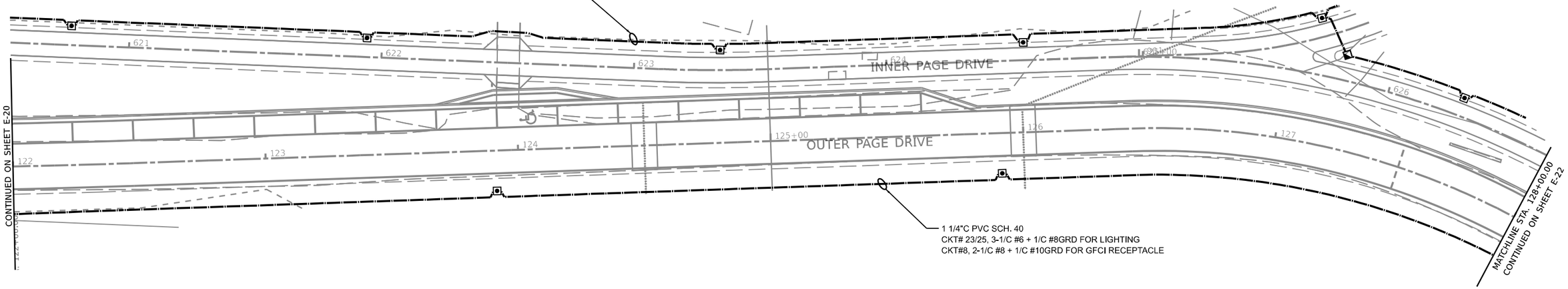
FILE = $FILE$
$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

N

0 20 40 60

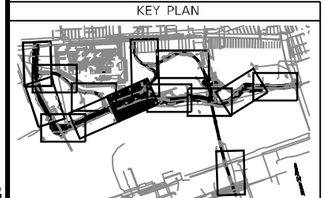
SCALE IN FEET

1 1/4"C PVC SCH. 40
CKT# 22/24, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT# 8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE



1 1/4"C PVC SCH. 40
CKT# 23/25, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT#8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

KEY PLAN



E-21

REVISION	DATE	BY	REMARKS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 22 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	193
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

FILE = $FILE$

$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

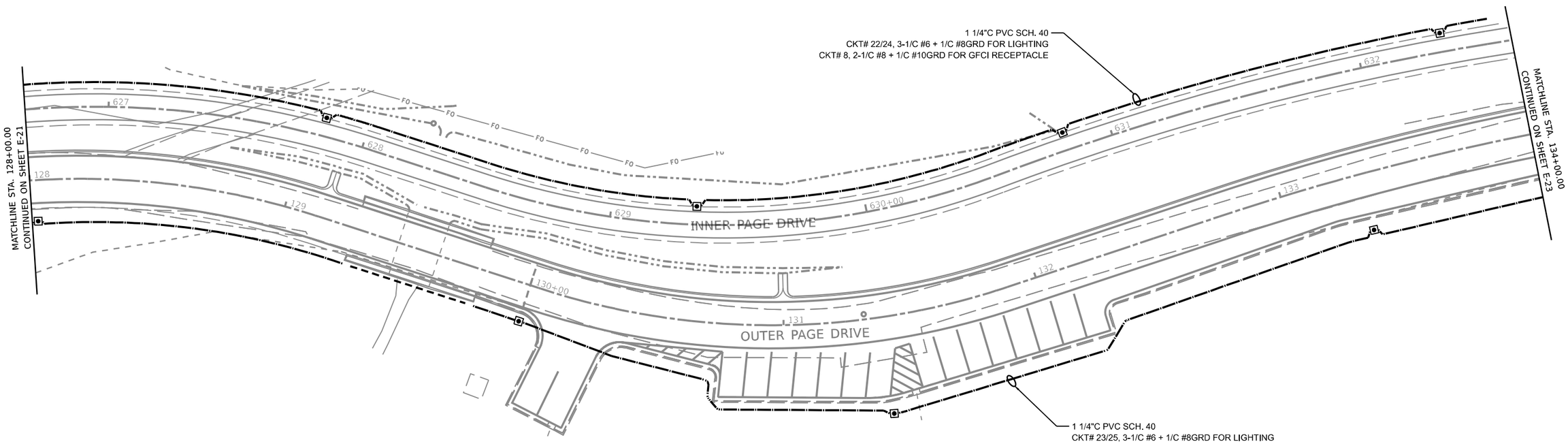
85762

N

0 20 40 60

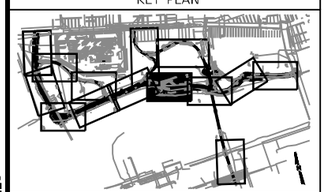
SCALE IN FEET

1 1/4"C PVC SCH. 40
CKT# 22/24, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT# 8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE



1 1/4"C PVC SCH. 40
CKT# 23/25, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT#8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

KEY PLAN



E-22

REVISION	DATE	BY	REMARKS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

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PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 23 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	194
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SIY7(916)		

FILE = $FILE$

$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

85762

N

0 20 40 60
SCALE IN FEET

1 1/4"C PVC SCH. 40
CKT# 11/13, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT# 8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

INNER PAGE DRIVE

OUTER PAGE DRIVE

633 634 635+00 135+00 136 637 638 138 139

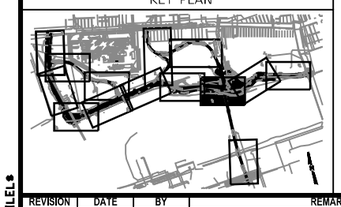
MATCHLINE STA. 134+00.00
CONTINUED ON SHEET E-22

MATCHLINE STA. 140+00.00
CONTINUED ON SHEET E-24

1 1/4"C PVC SCH. 40
CKT# 11/13, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT# 8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

1 1/4"C PVC SCH. 40
CKT# 23/25, 3-1/C #6 + 1/C #8GRD FOR LIGHTING
CKT#8, 2-1/C #8 + 1/C #10GRD FOR GFCI RECEPTACLE

KEY PLAN



E-23

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON *Here to Serve*

PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 24 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	195
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

FILE = $FILE$
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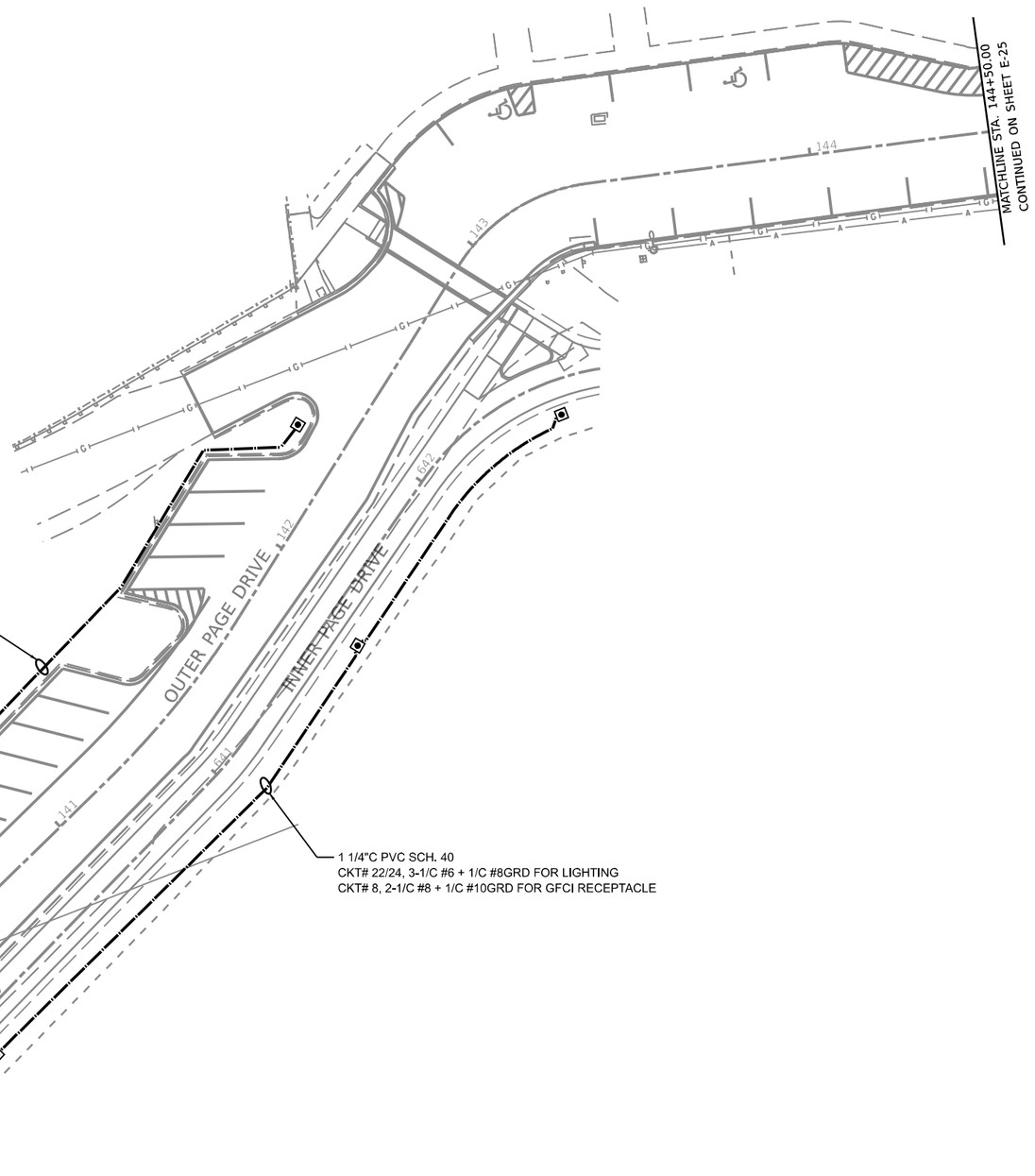
$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

85762



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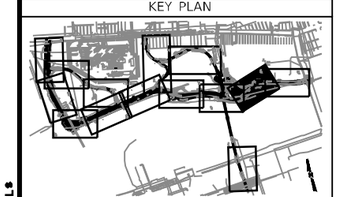

E-24

REVISION	DATE	BY	REMARKS

DESIGNED
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DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

PAGE DRIVE (INNER AND OUTER)
PROPOSED LIGHTING PLAN

SHEET 25 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	196
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5IY7(916)		

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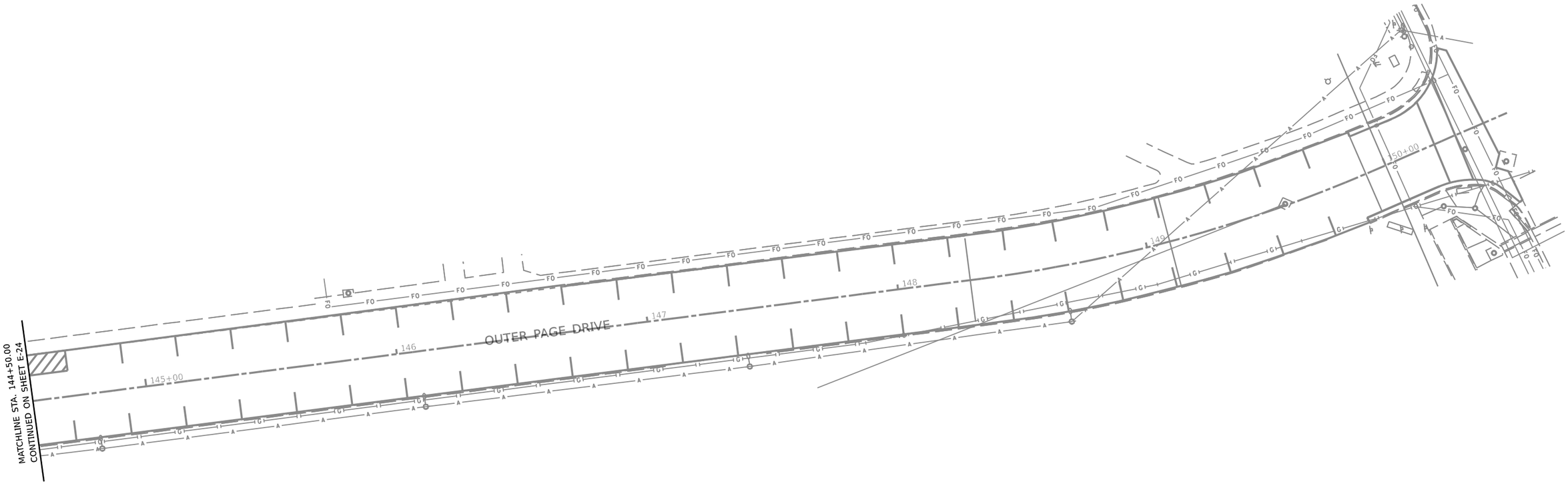
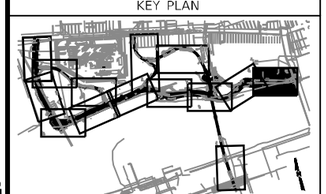
$PLTDRVS$ $DATE$ $TIME$: PLOTTED

85762

FOR REFERENCE ONLY



KEY PLAN



E-25

REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED KK

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

REFERENCE ONLY

SHEET 26 OF 27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	197
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT SLY7(916)		

SCALE: AS NOTED

FILE = $FILEL$

85762

$PLTDRVS$ $DATE$ $TIME$ = PLOTTED

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REVISION	DATE	BY	REMARKS

DESIGNED
DRAWN
REVIEWED KK
APPROVED

DELTA ENGINEERING GROUP

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON Here to Serve

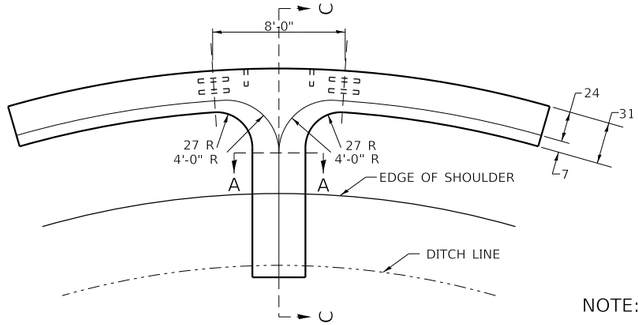
DETAIL

SHEET 27 OF 27

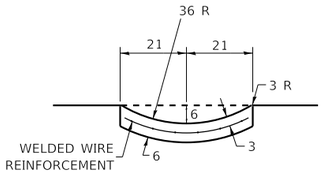
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	198
	WHA# 1369D22	CONTRACT NO. 85762		
SCALE: AS NOTED	ILLINOIS	FED. AID PROJECT 5LY7(916)		

FILE = $FILE$

CURB AND GUTTER OUTLET, SPECIAL



SECTION C-C



QUANTITY OF CONCRETE
SECTION A-A = 0.07 CU.YD./FT.
8' SECTION OF CURB & GUTTER UP TO
SECTION A-A = 0.75 CU.YD.

SECTION A-A

NOTE:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 30 LONG - 30 CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT HAVING A WEIGHT OF AT LEAST 58 lbs/100 sq. ft. WITH 6 x 6 MESH, NO. 4 WIRE. COST TO BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET).

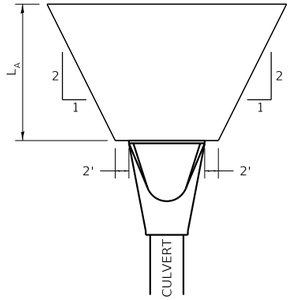
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-05-16
REVISED - 9-30-11

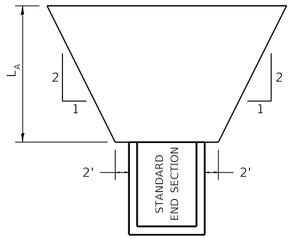
CURB AND GUTTER OUTLET, SPECIAL 18.4

RIPRAP AT END SECTIONS

85762



FLARED END SECTION

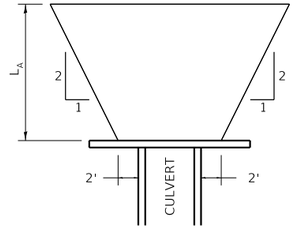


STANDARD END SECTION

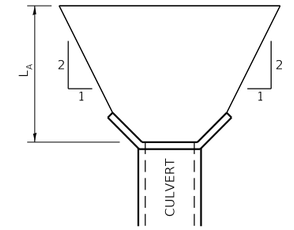
L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



CULVERT WITH HEADWALL

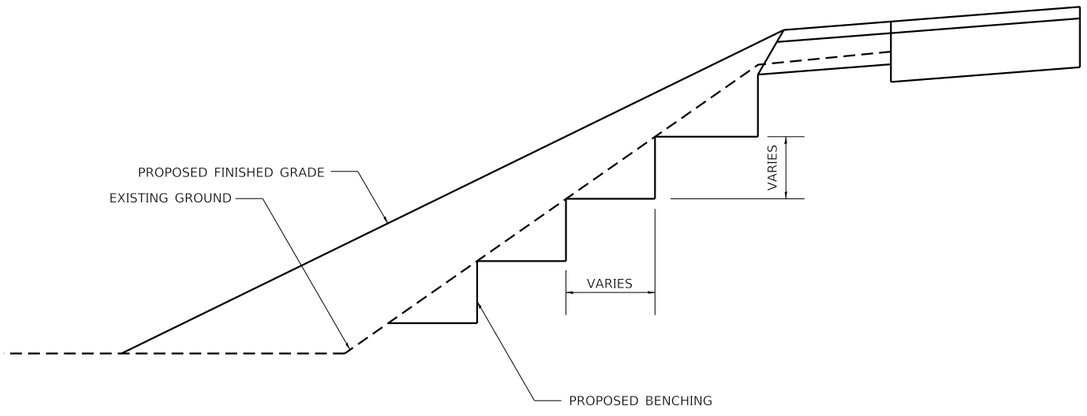


CULVERT WITH WING WALLS

REVISED - 7-13-16
REVISED - 11-12-14
REVISED - 2-10-14

RIPRAP AT END SECTIONS 19.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

WILLETT HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

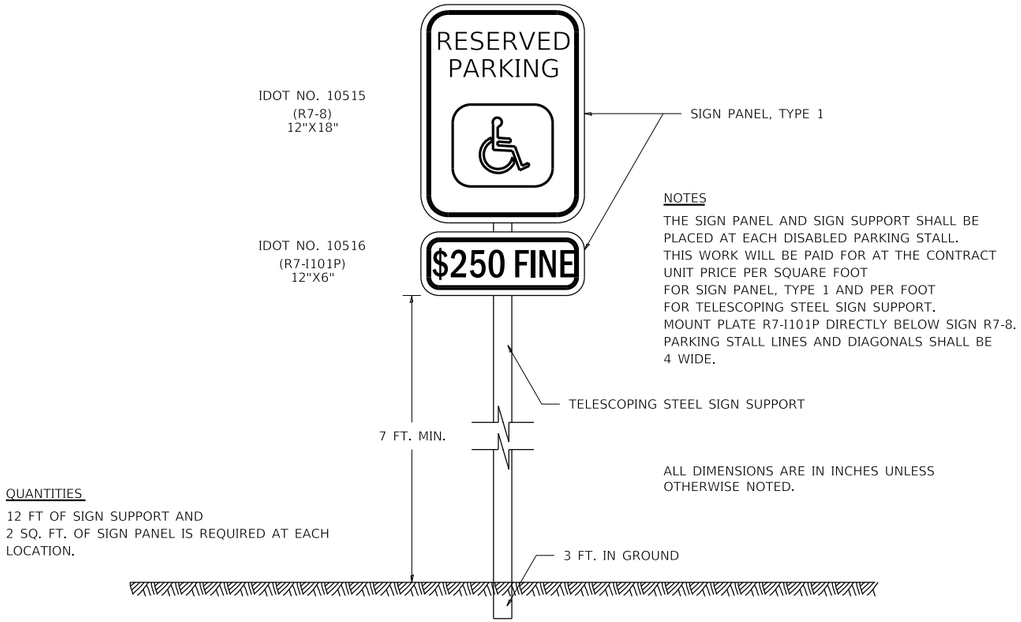
DIXON Here to Serve

REGION 2 / DISTRICT 2 STANDARDS
18.4, 19.4, AND 50.4

SHEET 1 OF 11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	199
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS	FED. AID PROJECT 5LY7(916)		

RESERVED PARKING SIGN DETAIL



NOTES

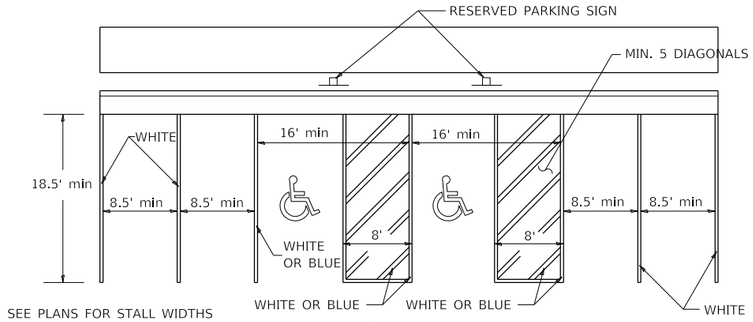
THE SIGN PANEL AND SIGN SUPPORT SHALL BE PLACED AT EACH DISABLED PARKING STALL. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR SIGN PANEL, TYPE 1 AND PER FOOT FOR TELESCOPING STEEL SIGN SUPPORT. MOUNT PLATE R7-I101P DIRECTLY BELOW SIGN R7-8. PARKING STALL LINES AND DIAGONALS SHALL BE 4 WIDE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

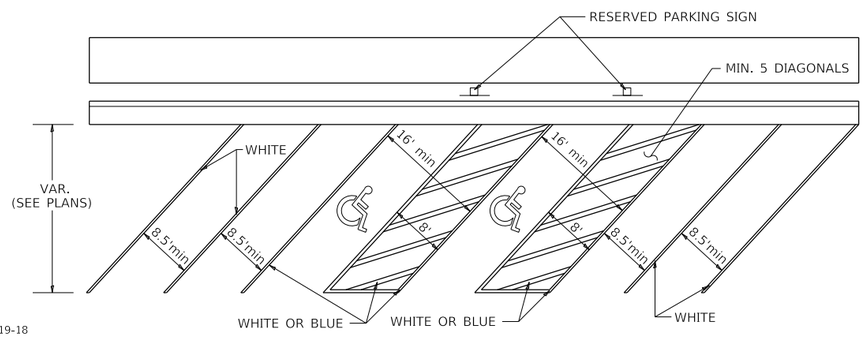
QUANTITIES

12 FT OF SIGN SUPPORT AND
2 SQ. FT. OF SIGN PANEL IS REQUIRED AT EACH LOCATION.

DISABLED PARKING STRIPING



PARKING ANGLE = 90°



LESS THAN 90° PARKING ANGLE

REVISED - 4-19-18
REVISED - 1-05-16
REVISED - 6-27-14
REVISED - 10-14-11

RESERVED PARKING SIGN DETAIL 44.2

REVISION	DATE	BY	REMARKS

DESIGNED	LGN
DRAWN	DLB
REVIEWED	GFS
APPROVED	GFS

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CITY OF DIXON
RIVER CROSSING SHARED-USE PATH
2024

DIXON
Here to Serve

REGION 2 / DISTRICT 2 STANDARDS 44.2

SHEET 2 OF 11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00183-00-BR	LEE	315	200
	WHA# 1369D22	CONTRACT NO. 85762		
	ILLINOIS FED. AID PROJECT 5LY7(916)			