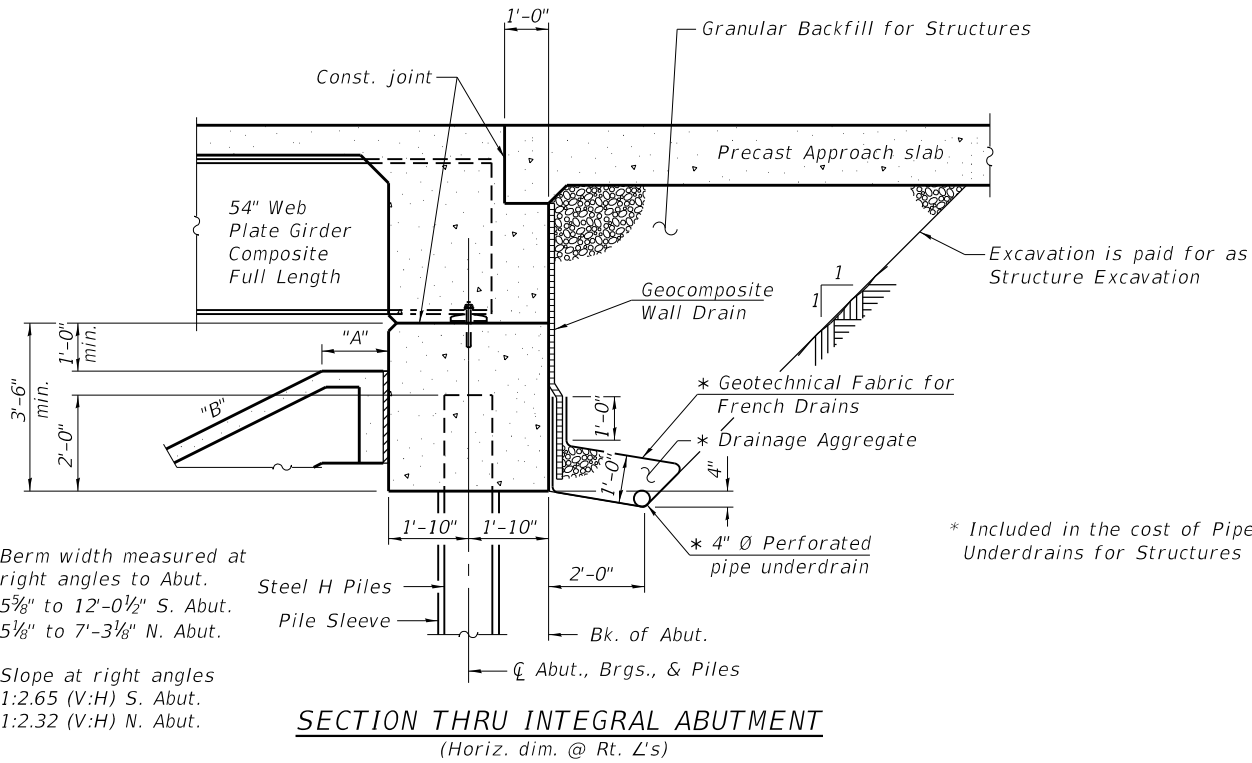


TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		5,572	5,572
Rock Excavation for Structures	Cu. Yd.		17	17
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		371.5	371.5
Concrete Superstructure	Cu. Yd.	578.3		578.3
Protective Coat	Sq. Yd.	2,165		2,165
Furnishing & Erecting Structural Steel	L. Sum	0.2		0.2
Stud Shear Connectors	Each	9,342		9,342
Reinforcement Bars, Epoxy Coated	Pound	149,670	47,130	196,800
Bar Splicers	Each		300	300
Mechanical Splicers	Each		2	2
Slope Wall 4 Inch	Sq. Yd.		1,214	1,214
Furnishing Steel Piles HP14x89	Foot		300	300
Driving Piles	Foot		300	300
Test Pile Steel HP14x89	Each		2	2
Pile Shoes	Each		12	12
Furnishing Steel Piles W14x211	Foot		781	781
Drilling and Setting Piles (In Soil)	Cu. Ft.		2,366.8	2,366.8
Drilling and Setting Piles (In Rock)	Cu. Ft.		1,188.0	1,188.0
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	115.0		115.0
Anchor Bolts, 1"	Each	24		24
Anchor Bolts, 1 1/4"	Each	24		24
Temporary Soil Retention System	Sq. Ft.		716	716
Granular Backfill for Structures	Cu. Yd.		349	349
Geocomposite Wall Drain	Sq. Yd.		165	165
Pipe Underdrains for Structures 4"	Foot		239	239
Drainage Scuppers, DS-11	Each	2		2
Diamond Grinding (Bridge Section)	Sq. Yd.	1,914		1,914
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,089		1,089
Concrete Wearing Surface, 5"	Sq. Yd.	280		280
Precast Bridge Approach Slab	Sq. Ft.	2,380		2,380

INDEX OF SHEETS

- General Plan and Elevation
- General Data
- 3-4. Stage Construction Details
- 5-8. Top Of Slab Elevations
9. Top Of South Approach Slab Elevations
10. Top Of North Approach Slab Elevations
11. Superstructure
- 12-13. Superstructure Details
14. Diaphragm Details
15. Drainage Scupper, DS-11
- 16-18. Precast Bridge Approach Slab Details
19. Preformed Joint Strip Seal
20. Framing Plan
21. Structural Steel Details
22. Design Data Tables
23. Bearing Details
24. South Abutment
25. North Abutment
- 26-27. Abutment Details
28. Pier 1
29. Pier 2
30. Bar Splicer Details
31. HP Pile Details
32. Concrete Parapet Slipforming Option
- 33-37. Boring Logs



"A" - Berm width measured at right angles to Abut.
5 5/8" to 12'-0 1/2" S. Abut.
5 1/8" to 7'-3 1/8" N. Abut.

"B" - Slope at right angles
1:2.65 (V:H) S. Abut.
1:2.32 (V:H) N. Abut.

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures

Notes:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).
See Sheet 1 of 37 for Section A-A.

GENERAL NOTES

Calculated Weight of Structural Steel = 27,230 lbs (M270 Grade 36)
= 581,810 lbs (M270 Grade 50)

No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

Sloped wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

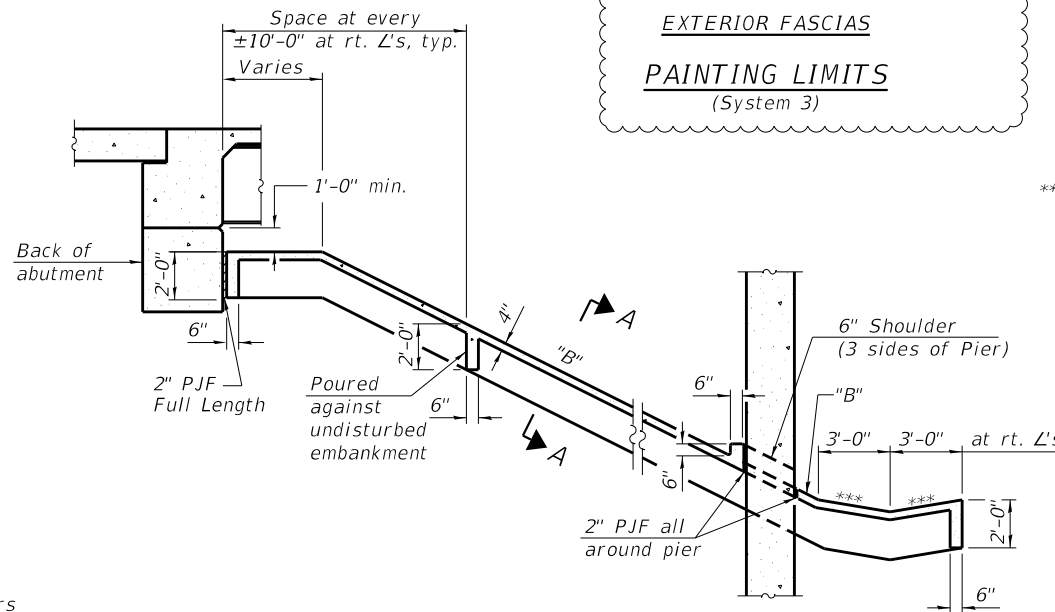
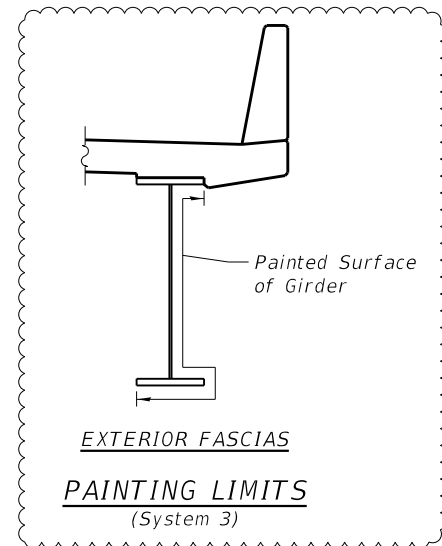
All new structural steel shall be metalized, unless noted otherwise. See Special Provision for "Metalizing of Structural Steel."

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in metalized areas.

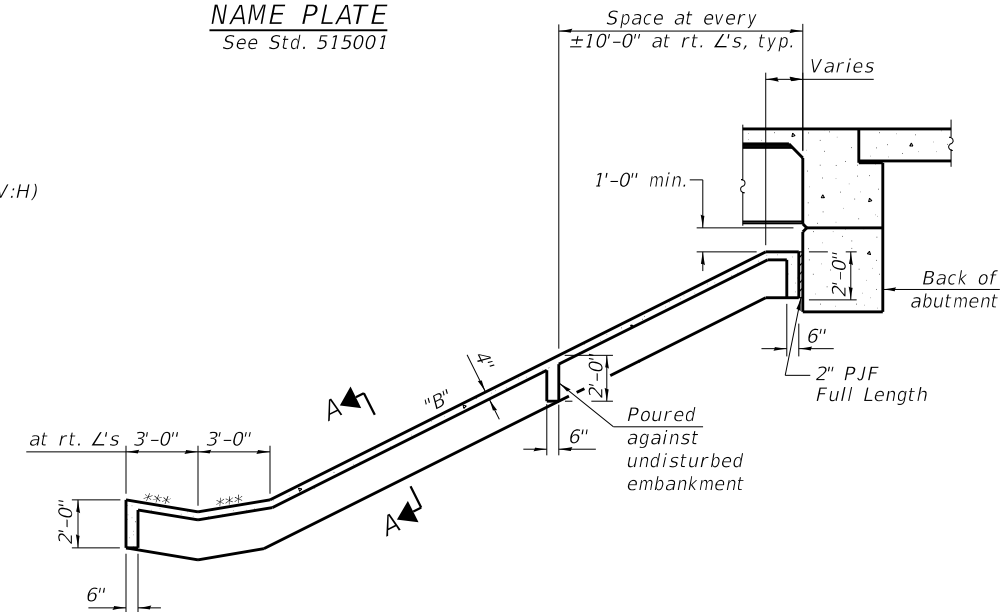
Protective Coat shall be applied to the entire surface of the bridge deck, approach slabs and to the top and traffic face of all bridge deck and approach slab parapets.

Structure Excavation limits shall be to 1'-0" min. below the bottom of the girders except at the abutment and pier caps. For limits of Structure Excavation at the abutment and pier caps see Sheet 4 of 37. The excavation below these areas shall be paid for in the Roadway Plans.

The interior metalized areas shall be painted with System 1. Exterior fascia and bottom of bottom flange areas shall be metalized and shop painted using System 3. See painting limits on this sheet. The color of the final finish coat of paint shall be Blue, Munsell No. 10B 3/6.



SECTION THRU CONCRETE SLOPEWALL
(South Abutment)



SECTION THRU CONCRETE SLOPEWALL
(North Abutment)

STATION 364+92.09
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 39 SEC. (201-3)K
LOADING HL-93
STRUCTURE NO. 101-0204

NAME PLATE
See Std. 515001

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PLOT DATE =	03/31/2023	CHECKED -	MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

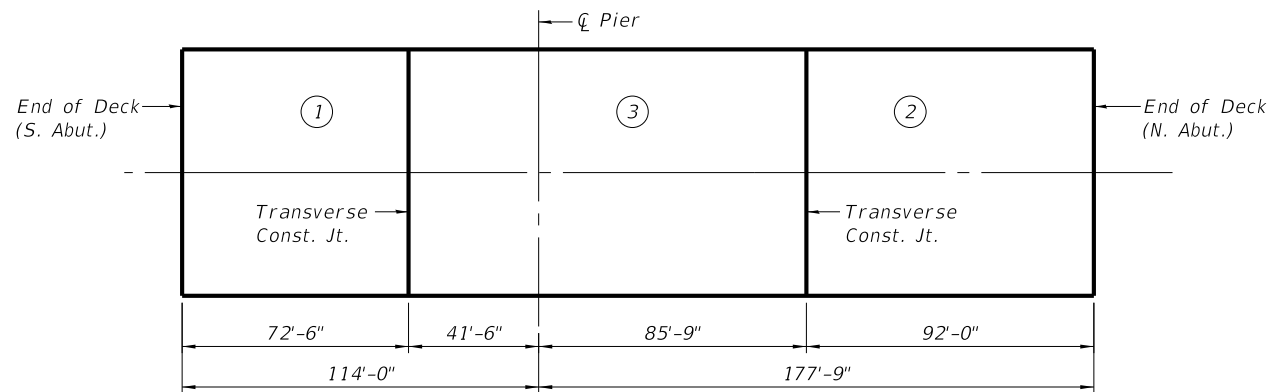
GENERAL DATA
STRUCTURE NO. 101-0204

SHEET 2 OF 37 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(201-3)K	WINNEBAGO	2192	864
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B13	

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Slope Wall and Pile Layout
- 4-6 Top of Slab Elevations
- 7 Top of S Approach Slab Elevations
- 8 Top of N Approach Slab Elevations
- 9 Superstructure
- 10 Superstructure Details
- 11 Concrete Parapet Slipforming Option
- 12 Diaphragm Details
- 13-15 Precast Bridge Approach Slab
- 16 Modified Preformed Joint Strip Seal
- 17 Framing Plan
- 18-19 Structural Steel Details
- 20 Guided Expansion HLMR Pot Bearing Details
- 21 Fixed Bearing Details
- 22-23 South Abutment
- 24-25 North Abutment
- 26 Pier Details
- 27 Metal Shell Pile Details
- 28-31 Soil Boring Logs



DECK POURING SEQUENCE

When the deck pour is stopped for the day at one or more of the bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

1. At least 72 hours have elapsed from the end of the previous pour.
2. The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compression strength of 4,000 psi

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal Of Existing Structures No. 5	Each	0.5	0.5	1
Protective Shield	Sq Yd	1,048		1,048
Structure Excavation	Cu Yd		600	600
Concrete Structures	Cu Yd	25.3	166.7	192.0
Concrete Superstructure	Cu Yd	501.4		501.4
Protective Coat	Sq Yd	1,862	81	1,943
Furnishing And Erecting Structural Steel	L. Sum	0.2		0.2
Stud Shear Connectors	Each	4,488		4,488
Reinforcement Bars, Epoxy Coated	Pound	127,710	27,720	155,430
Slope Wall 4 Inch	Sq Yd		437	437
Furnishing Metal Shell Piles 12"x0.25"	Foot		880	880
Driving Piles	Foot		880	880
Test Pile Metal Shells	Each		3	3
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	82		82
Anchor Bolts, 1"	Each		48	48
Granular Backfill For Structures	Cu Yd		263	263
Geocomposite Wall Drain	Sq Yd		140	140
Pipe Underdrains For Structures 4"	Foot		210	210
Diamond Grinding (Bridge Section)	Sq Yd	1,407		1,407
Bridge Deck Grooving (Longitudinal)	Sq Yd	938		938
Concrete Wearing Surface, 5"	Sq Yd	280		280
Precast Bridge Approach Slab	Sq Ft	2,380		2,380
High Load Multi-Rotational Bearings, Pot Guided Expansion, 600K	Each		6	6

GENERAL NOTES:

Fasteners shall be ASTM F3125 Grade A325 Type 1, Hot-Dip Galvanized Bolts in metalized areas. Bolts 7/8" Ø, holes 1 1/16" Ø unless otherwise noted.

Calculated weight of Structural Steel = 625,640 lbs. (Grade 50)
Calculated weight of Structural Steel = 18,830 lbs. (Grade 36)

All new structural steel to be metalized. See Special Provisions for "Metalizing of Structural Steel".

The interior metalized areas shall be painted with System 1. Exterior fascia and bottom of bottom flange areas shall be metalized and shop painted using System 3. See painting limits on detail on this sheet. The color of the final finish coat of paint shall be Blue, Munsell No. 10B 3/6.

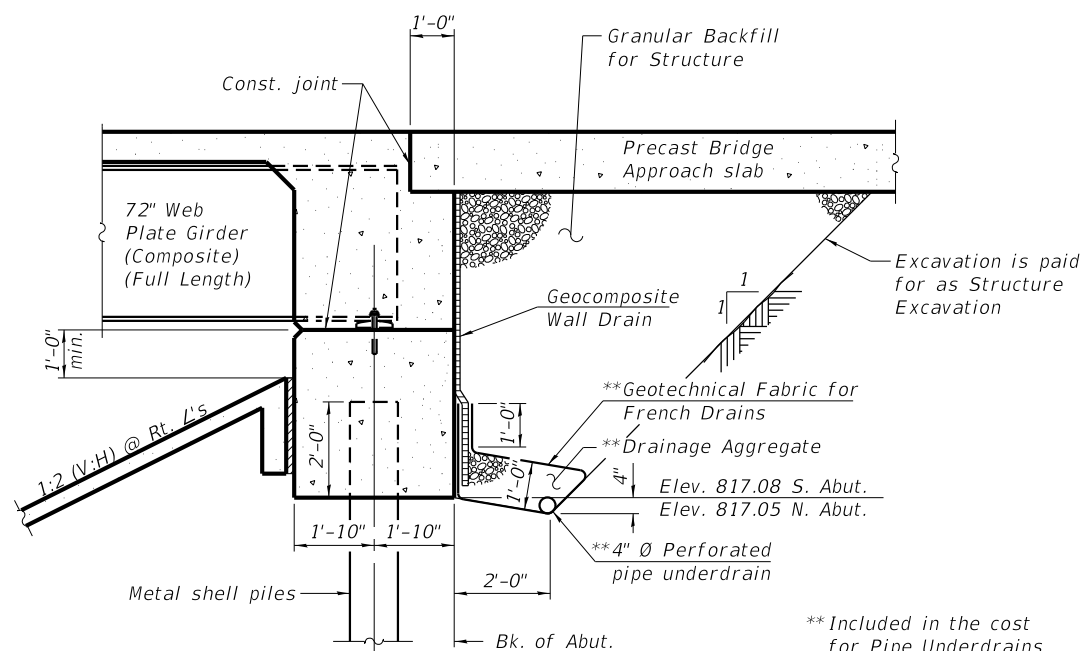
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustments shall be made by grinding the surface or by shimming the Bearings.

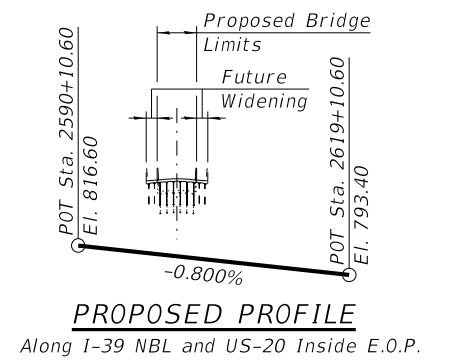
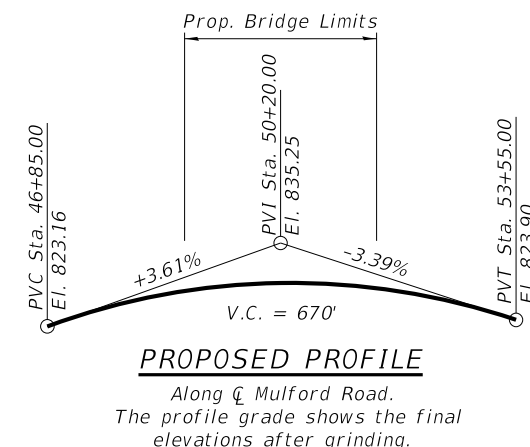
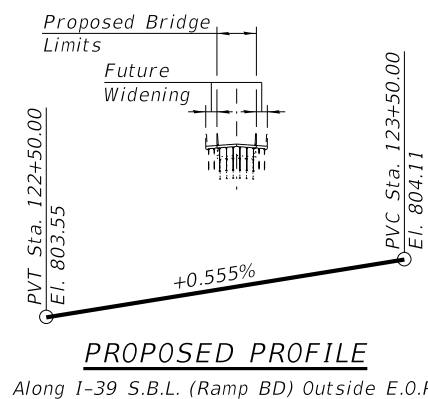
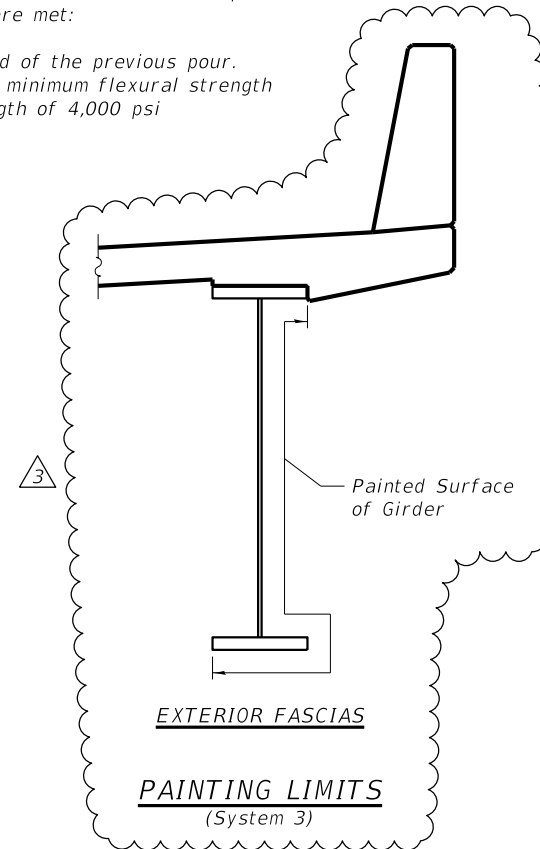
The existing structure (S.N. 101-0131) carrying Mulford Road over I-39 & U.S. 20 shall removed per Article 501.04 of the Standard Specifications. See Staging Plans in the roadway plans for timing of removal and related staging information. Please reference the "Additional Information" provided to bidders for existing structure plans.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

All drainage components shall extend to 2'-0" from the end of each wingwall, except an outlet pipe shall extend until intersecting with the side slopes. The pipe shall drain into concrete headwalls. (see Article 601.05 of the Standard Specifications and Highwall Standard 601101).

** Included in the cost for Pipe Underdrains for Structures.



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	DRAWN - FDL	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET 2 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(201-3)K	WINNEBAGO	2192	925
WHA # 1390D19		CONTRACT NO. 64B13		