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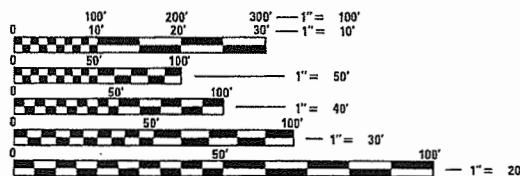
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03-09-2018 LETTING ITEM 136

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS > 45 MPH
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- 701901-07 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

542401-03 METAL FLARED END SECTION FOR PIPE CULVERTS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - SRK
PROJECT MANAGER - SRK

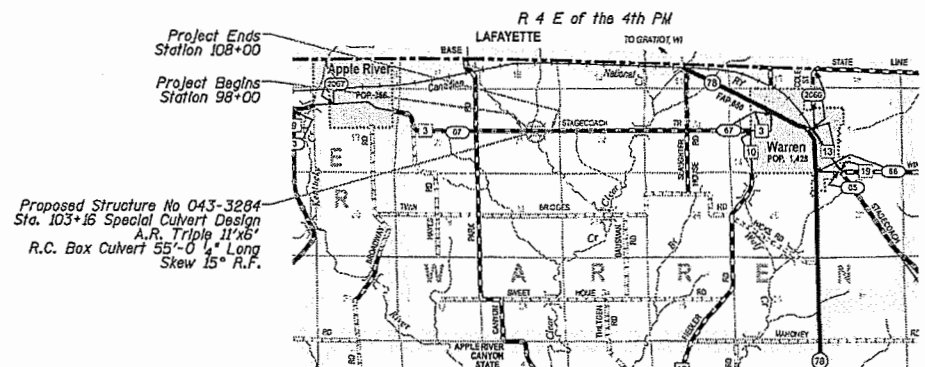
CONTRACT NO. 85663

STATE OF ILLINOIS

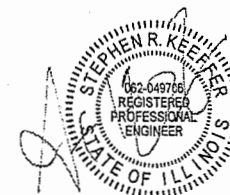
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
RURAL - BRIDGE (FY-18)

FAS 67 (E. STAGECOACH TRAIL)
SECTION 12-00142-00-BR
PROJECT TOLL(004)
JOB NO. C-92-041-14
STRUCTURE REPLACEMENT
JO DAVIESS COUNTY

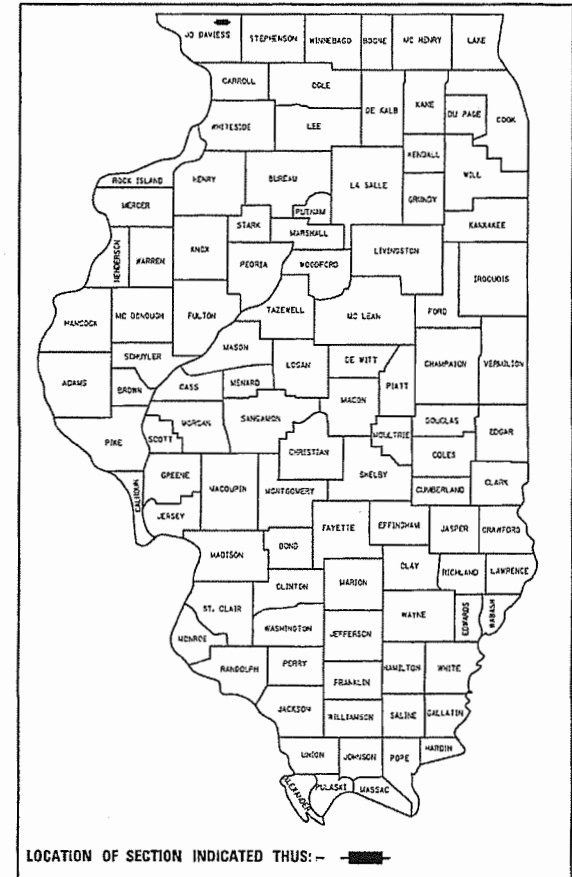


GROSS LENGTH = 1000 FT. = 0.189 MILE
NET LENGTH = 1000 FT. = 0.189 MILE



Expires 11-30-2019

F.A. Route	Section	County	Total Sheet No.
67	12-00142-00-BR	Jo Daviess	24 / 1
			Contract No. 85663
Illinois Fed. Aid Project			



JO DAVIESS COUNTY HIGHWAY DEPARTMENT	
APPROVED	December 14, 2017
<i>[Signature]</i> JO DAVIESS COUNTY ENGINEER	
PASSED	December 19, 2017
<i>[Signature]</i> DISTRICT 2 ENGINEER OF LOCAL ROADS AND STREETS	
RELEASING FOR 60% BASED ON LIMITED REVIEW	December 19, 2017
<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER	

Jo Daviess County Highway Department
1 Commercial Drive, Suite 3
Hanover, IL 61041

General Notes

Existing wells shall be sealed in accordance with section 672 of the standard specifications, and existing structures (including foundations, walls, cisterns, or other underground structures) within the right of way shall be removed in accordance with article 501.04 and 501.05 of the standard specifications, without additional compensation, unless otherwise noted in the plans or special provisions.

No overhaul has been computed and none shall be paid for from any source.

The contractor shall seed all disturbed areas within the project limits.

The final top four inches of soil in any right-of-way area disturbed by the contractor must be a cohesive soil capable of supporting vegetation and approved by the Engineer.

All utility poles, gas pipes, etc. in the way of the improvements shall be moved by the utilities prior to construction and shall not be included in the contract. The contractor shall notify the respective utilities to make the necessary adjustments prior to construction.

The location and elevation of the various underground utilities as shown on the plan are not to be taken as exact. The contractor shall use special care when conducting construction operations near them to prevent damage.

The location of existing field tiles and any other public or private utilities as shown in the plans are not to be taken as exact. Exact location of all field tiles and utilities is to be determined in the field by the contractor.

The contractor shall be responsible for protecting utility property during construction operations as outlined in article 107.39 of the standard specifications. Any utility property damaged during construction shall be repaired or replaced to the satisfaction of the owner at the contractor's expense.

The utilities located within the project limits or immediately adjacent to the project construction limits include:

Frontier Communications	ComEd	Mediacom
Attn: Kalin Hinshaw	Attn: Nora Fernandez	Attn: Jeff Auckman
112 Elm Street	123 Energy Avenue	1 Mediacom Way
Sycamore, IL 60178	Rockford, IL 61109	Mediacom Park, NY 10918
(815) 895-1515	(815) 490-2335	(563) 599-2420
kalin.hinshaw@frt.com	nora.fernandez@comed.com	

A nationwide 404 permit has been issued for this project and the conditions of that permit must be adhered to.

Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The contractor shall protect and carefully preserve all property markers, monuments, and right of way pins until the owner, an authorized surveyor, or agent has witnessed or otherwise referenced their location.

General Notes - cont.

Existing mailboxes, street signs, and traffic signs that are within the construction limits shall be removed by the contractor. Cost of removal to be included in the contract unit price bid per cubic yard for earth excavation (special).

Where the proposed construction meets an existing bituminous surface, or where sawing is stated on the plans, the existing shall be sawed in a neat, straight line. Cost of sawing to be included in the contract unit price bid per cubic yard for earth excavation (special).

All borrow/waste/use sites must be approved by the department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of the construction.

Removal and disposal of unsuitable material shall be used for removal of soft spots as determined by the Engineer, see special provisions.

Benchmarks

Benchmark # 1; Spike in Power Pole Sta 102+21.4, 30.1' L; Elev. = 935.13

Benchmark # 2; Spike in Telephone Pole Sta 103+59.3, 34.5' R; Elev. = 935.17

Benchmark # 3; Spike in Power Pole Sta 104+10.1, 35.7' L; Elev. = 942.00'

Benchmark # 4; Chiseled 'X' in SE Bridge Wingwall Sta 103+28.8, 14.4' L; Elev. = 939.83

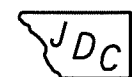
FAS 67 (Stagecoach Trail) Earthwork Totals

Location	Embankment	Earth * Excavation (Special)	Earth Excavation Adjusted for Shrinkage (25%)	Channel Excavation	Channel Excavation Adjusted for Shrinkage (50%)	Structural Excavation	Structural Excavation Adjusted for Shrinkage (50%)
FAS 67 (Stagecoach Trail)							
Sta 98+00 - 108+00	1276	1569	1177				
Sta 103+16 (Culvert)				200	100	350	175
Driveway							
Main Drive							
Sta 0+00 - 0+60	1	154	116				
Left Drive							
Sta 10+00 - 10+70	1	37	28				
Right Drive							
Sta 20+00 - 20+50	0	184	138				
Total	1278	1944	1459	200	100	350	175

* Pay Item

Channel Excavation - The channel shall be excavated from the inlet and outlet of the box culvert and taper to the existing channel at the Temporary Construction Easement lines.

Embankment quantity has been adjusted for the volume of the box culvert



Jo Daviess County Highway Department
1 Commercial Drive, Suite 3
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CHECKED	REVISION -
DRAWN	REVISION -
CHECKED	REVISION -

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

General Notes

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F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	2
Contract No. 85663				

Illinois Fed. Aid Project

Summary of Quantities
Construction Type Code: 0010

Pay Code	Item	Unit	Quantity
20200200	Rock Excavation	Cu. Yd.	25
20201200	Removal and Disposal of Unsuitable Material	Cu. Yd.	25
20300100	Channel Excavation	Cu. Yd.	200
25100630	Erosion Control Blanket	Sq. Yd.	5,322
28000250	Temporary Erosion Control Seeding	Pound	110
28000305	Temporary Ditch Checks	Foot	890
28000400	Perimeter Erosion Barrier	Foot	2,240
28000500	Inlet and Pipe Protection	Each	2
28100105	Stone Rip Rap, Class A3	Sq. Yd.	15
28100109	Stone Rip Rap, Class A5	Sq. Yd.	110
28200200	Filter Fabric	Sq. Yd.	110
35100100	Aggregate Base Course, Type A	Ton	1,440
40200800	Aggregate Surface Course, Type B	Ton	174
40600275	Bituminous Materials (Prime Coat)	Pound	5,567
40600290	Bituminous Materials (Tack Coat)	Pound	557
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	Ton	416
40603310	Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	277
48101200	Aggregate Shoulders, Type B	Ton	231
50100100	Removal of Existing Structures	Each	1
50200100	Structural Excavation	Cu. Yd.	350
50800205	Reinforcement Bars Epoxy Coated	Pound	41,540
51500100	Name Plates	Each	1
54003000	Concrete Box Culverts	Cu. Yd.	219.9
54262718	Metal Flared End Sections 18"	Each	4
542C0223	Pipe Culverts, Class C, Type 1, 18"	Foot	102
▲ 63200310	Gaurdrail Removal	Foot	268
67100100	Mobilization	L. Sum	1
▲ 78001110	Paint Pavement Marking - Line 4"	Foot	2,230
*X2010400	Stump Removal Only	Unit	82
*X2020410	Earth Excavation (Special)	Cu. Yd.	1,944
*X2070302	Porous Granular Embankment (Special)	Ton	303
*X2501020	Seeding, Class 2A (Special)	Acre	1.10
*X7010216	Traffic Control and Protection (Special)	L. Sum	1
*Z0022810	Fence Removal (Special)	Foot	600

* See Special Provisions

▲ SPECIALTY ITEMS

Schedule of Quantities

Rock Excavation		
Station	Cu. Yd.	Remarks
FAS 67 (Stagecoach Trail)		
Contingency Item	25	As Directed by the Engineer
Project Total	25	

Schedule of Quantities - cont.

Removal and Disposal of Unsuitable Material		
Station	Cu. Yd.	Remarks
FAS 67 (Stagecoach Trail)		
Contingency Item	25	As Directed by the Engineer
Project Total	25	

Erosion Control Blanket		
Station	Sq. Yd.	Remarks
FAS 67 (Stagecoach Trail)		
Rt Sta 98+00 - 108+00	2805	
Lt Sta 98+00 - 108+00	2517	
Project Total	5322	

Temporary Erosion Control Seeding		
Station	Pound	Remarks
FAS 67 (Stagecoach Trail)		
Rt Sta 98+00 - 108+00	58	100 Pounds per Acre
Lt Sta 98+00 - 108+00	52	100 Pounds per Acre
Project Total	110	

Temporary Ditch Checks		
Station	Foot	Remarks
FAS 67 (Stagecoach Trail)		
Lt Sta 98+25 - 99+25	110	
Rt Sta 98+20 - 100+50	390	
Rt Sta 103+60 - 107+85	180	
Lt Sta 104+50 - 107+75	140	
Driveway		
Rt Main Drive Sta 0+35 to	35	
Rt Right Drive Sta 20+40		
Rt Left Drive Sta 10+30 - 10+60	21	
Lt Left Drive Sta 20+40 - 20+50	14	
Project Total	890	

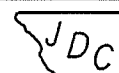
Schedule of Quantities - cont.

Perimeter Erosion Barrier		
Station	Foot	Remarks
FAS 67 (Stagecoach Trail)		
Lt Sta 98+00 - 102+75	525	
Lt Sta 103+25 - 103+75	210	
Lt Sta 104+00 - 108+00	500	
Rt Sta 98+00 - 103+10	530	
Rt Sta 104+00 - 108+00	475	
Project Total	2240	

Inlet and Pipe Protection		
Station	Each	Remarks
Driveway		
Rt Main Drive Sta 0+26.53	1	At Pipe Inlet
Rt Left Drive Sta 10+13.54	1	
Project Total	2	

Stone Rip Rap, Class A3		
Station	Sq. Yd.	Remarks
Driveway		
Rt Right Drive		
Sta 10+13 - 10+30	6	
Lt Left Drive		
Sta 20+15 - 20+40	9	
Project Total	15	

Aggregate Base Course, Type A		
Station	Ton	Remarks
FAS 67 (Stagecoach Trail)		
Sta 98+00 - 108+00	1440	12"
Project Total	1440	



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Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Summary of Quantities and
Schedule of Quantities

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Contract No. 85663			Illinois Fed. Aid Project	

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Schedule of Quantities - cont.

Aggregate Surface Course, Type B		
Station	Ton	Remarks
Driveway		
Main Drive Sta 0+11 - 0+60	94	8"
Left Drive		
Sta 10+00 - 10+70	36	8"
Right Drive		
Sta 20+00 - 20+50	44	8"
Project Total	174	

Bituminous Materials (Prime Coat)		
Station	Pound	Remarks
FAS 67 (Stagecoach Trail)		
Sta 98+00 - 108+00	5567	.25 lb./sq. ft. over Agg.
Project Total	5567	

Bituminous Materials (Tack Coat)		
Station	Pound	Remarks
FAS 67 (Stagecoach Trail)		
Sta 98+00 - 108+00	557	0.025 lb./sq. ft. over Binder
Project Total	557	

Hot Mix Asphalt Binder Course, IL-19.0, N50		
Station	Ton	Remarks
FAS 67 (Stagecoach Trail)		
Sta 98+00 - 108+00	416	3" - 112 lb./sq. yd./in.
Project Total	416	

Hot Mix Asphalt Surface Course, Mix "C", N50		
Station	Ton	Remarks
FAS 67 (Stagecoach Trail)		
Sta 98+00 - 108+00	277	2" - 112 lb./sq. yd./in.
Project Total	277	

Schedule of Quantities - cont.

Aggregate Shoulders, Type B		
Station	Ton	Remarks
FAS 67 (Stagecoach Trail)		
Lt Sta 98+00 - 103+68	68	6"
Lt Sta 104+45 - 108+00	43	6"
Rt Sta 98+00 - 108+00	120	6"
Project Total	231	

Metal Flared End Sections 18"		
Station	East	Remarks
Driveway		
Main Drive		
Sta 0+27, Rt 31'	1	
Sta 0+28, Lt 31'	1	
Left Drive		
Sta 10+14, Rt 15'	1	
Sta 10+27, Lt 22'	1	
Project Total	4	

Pipe Culverts, Class C, Type 1, 18"		
Station	Foot	Remarks
Driveway		
Main Drive Sta 0+27		
	63	
Left Drive Sta 10+21		
	39	
Project Total	102	

Guardrail Removal		
Station	Foot	Remarks
FAS 67 (Stagecoach Trail)		
Lt Sta 102+00 - 102+92	92	
Rt Sta 102+00 - 102+92	92	
Lt Sta 103+28 - 103+70	42	
Rt Sta 103+28 - 103+70	42	
Project Total	268	

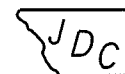
Schedule of Quantities - cont.

Paint Pavement Marking - Line 4"		
Station	Foot	Remarks
FAS 67 (Stagecoach Trail)		
Lt Sta 98+00 - 108+00	1000	Edge Line (White)
Rt Sta 98+00 - 108+00	1000	Edge Line (White)
Lt Sta 98+00 - 106+43	843	Solid @ C (Yellow)
Rt Sta 98+00 - 108+00	250	10'/30' Skip @ C (Yellow)
Project Total	2230	

Stump Removal		
Station	Unit	Remarks
FAS 67 (Stagecoach Trail)		
Sta 100+10, Lt 33'	6	
Sta 100+10, Lt 34'	6	
Sta 100+11, Lt 33'	6	
Sta 100+11, Lt 34'	6	
Sta 100+35, Lt 35'	6	
Sta 100+36, Lt 36'	6	
Sta 101+60, Lt 30'	8	
Sta 101+62, Lt 33'	6	
Sta 102+75, Lt 63'	32	Cluster of Stumps
Project Total	82	

Seeding, Class 2A (Special)		
Station	Acre	Remarks
FAS 67 (Stagecoach Trail)		
Rt Sta 98+00 - 108+00	.57	
Lt Sta 98+00 - 108+00	.53	
Project Total	1.10	

Fence Removal		
Station	Foot	Remarks
FAS 67 (Stagecoach Trail)		
Rt Sta 98+00 - 103+00	400	
Lt Sta 102+25 - 104+25	200	
Project Total	600	



Jo Daviess County Highway Department
1 Commercial Drive, Suite 3
Hanover, IL 61041

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Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Summary of Quantities and
Schedule of Quantities

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	4
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**Pavement Structural Design
FAS 67 (Stagecoach Trail)**

Structural Design Traffic (SDT) = Year 2028

Class III Street PV 880
SU 70 } 1,000 ADT
80,000 lb. Truck Design MU 50

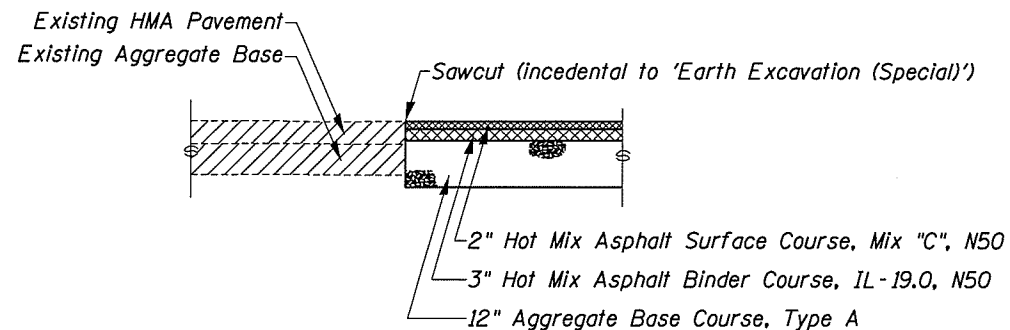
E : 2 Ksi (Poor Subgrade)
TF = .205
HMA Mix Temp. = 72
HMA E = 660
HMA Design Strain = 230

Use:
2" Hot-Mix Asphalt Surface Course, Mix "C", N50
3" Hot-Mix Asphalt Binder Course, IL-19.0, N50
12" Aggregate Base Course, Type A

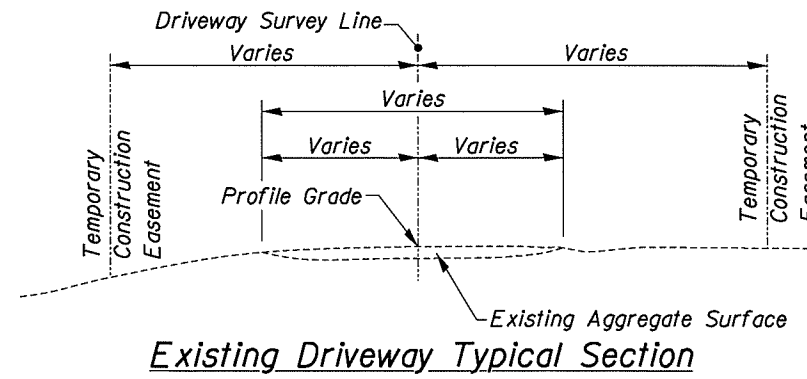
See Section 44-3.03(a) of the Local Road and Streets Manual

Pavement Mixture Requirements

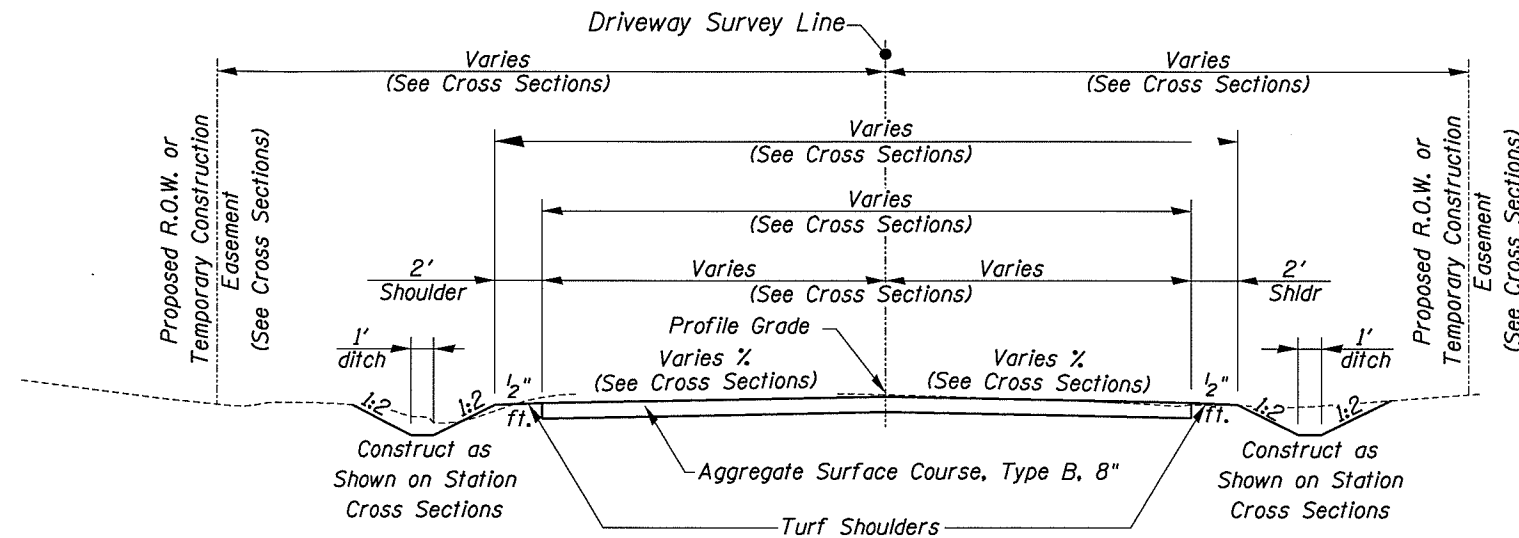
Mixture Use	Binder	Surface
PG:	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL-19.0	IL-9.5
Friction Aggregate	N/A	Mix "C"
Mixture Weight:	112 lb./sq. yd./in.	112 lb./sq. yd./in.



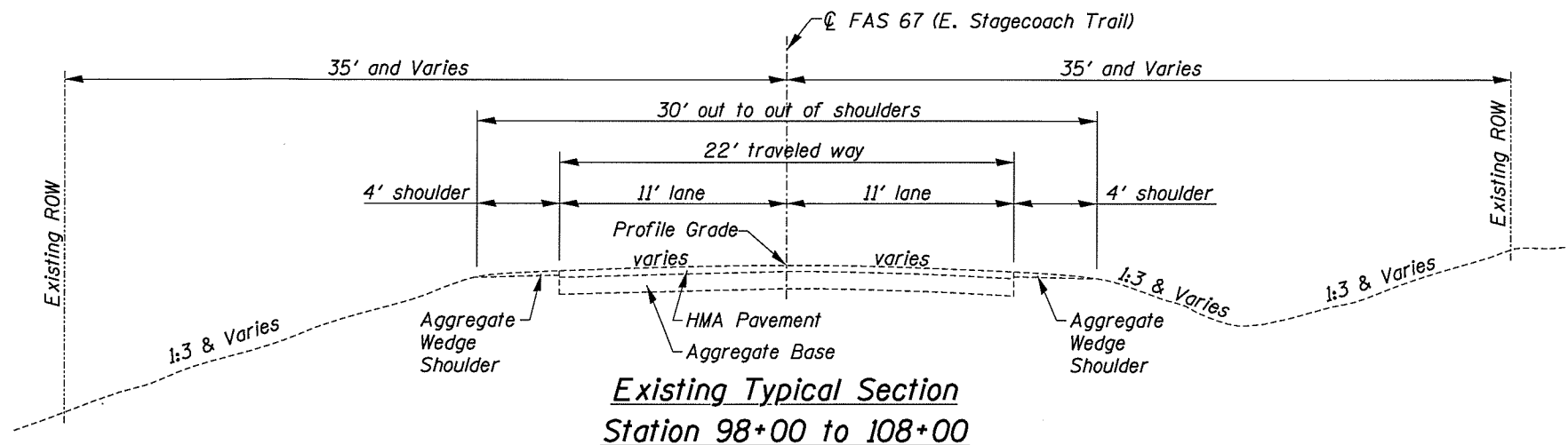
Typical Core Joint Detail
Station 98+00 and 108+00



Existing Driveway Typical Section



Proposed Driveway Typical Section
Main Driveway Station 0+11 to 0+60
Left Driveway Station 10+00 to 10+70
Right Driveway Station 20+00 to 20+50



Existing Typical Section
Station 98+00 to 108+00



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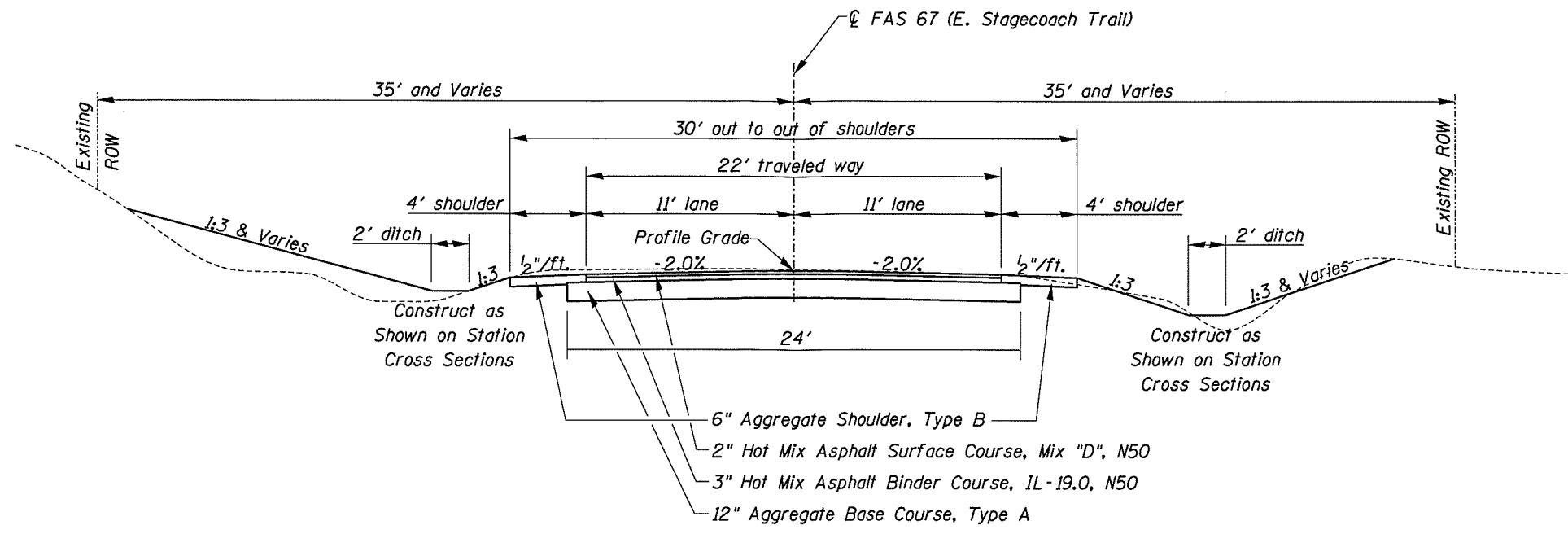
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Typical Sections and Details

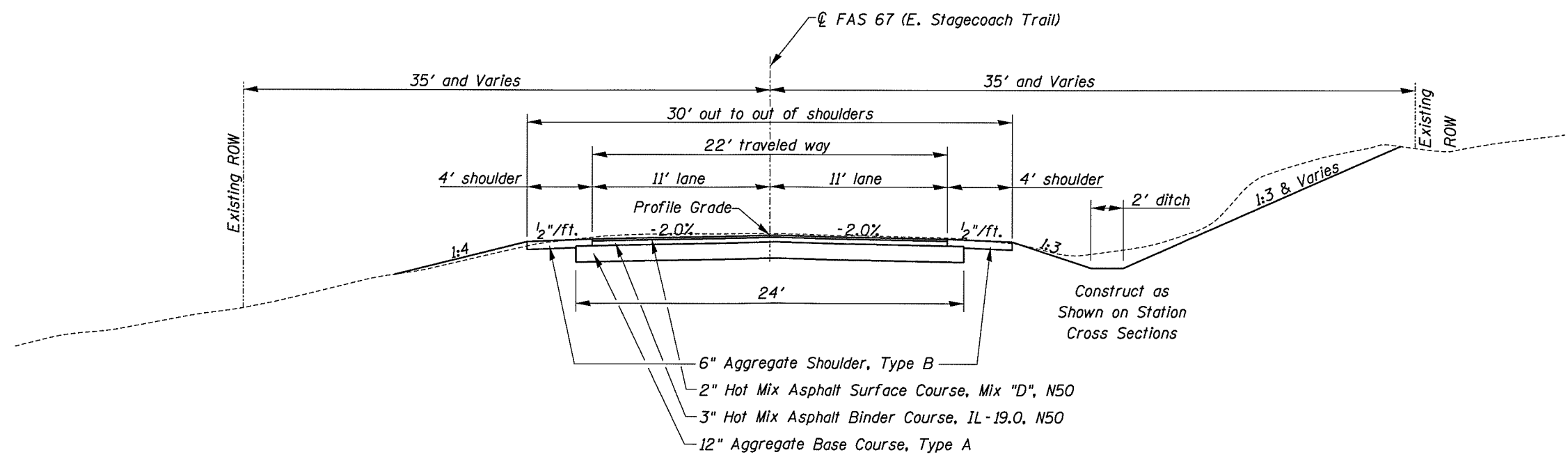
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			Contract No. 85663	

Illinois Fed. Aid Project



**Proposed Typical Section at
Station 98+00 to 99+00 and
Station 105+00 to 107+50**



**Proposed Typical Section at
Station 99+00 to 100+00 and Station 104+00 to 105+00**



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CHECKED	REVISION	-

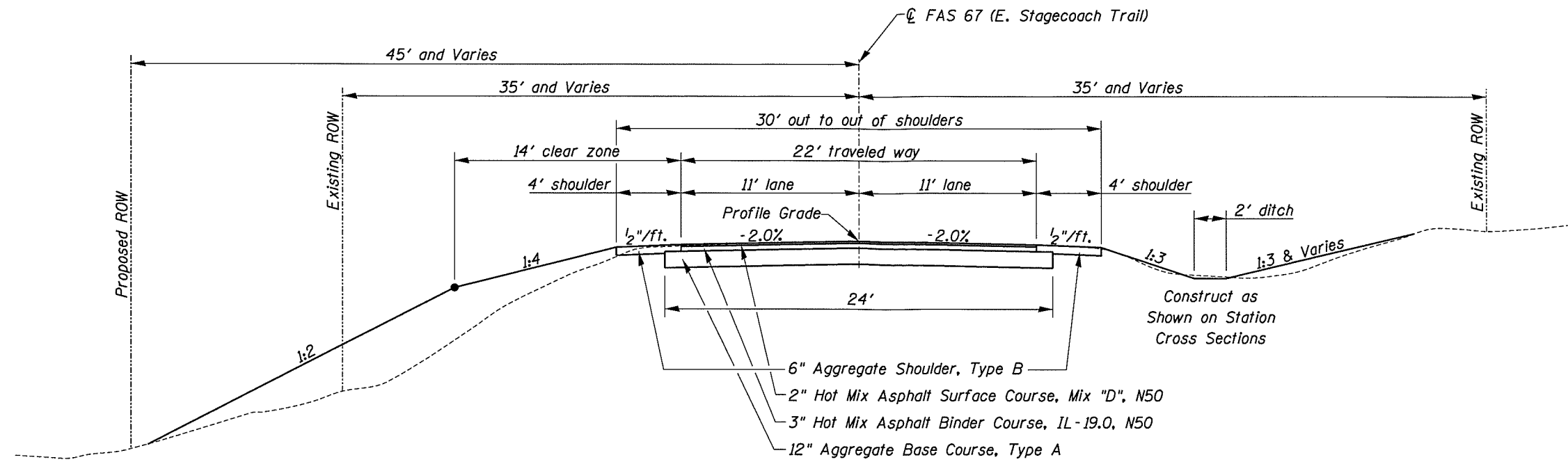
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Typical Sections and Details

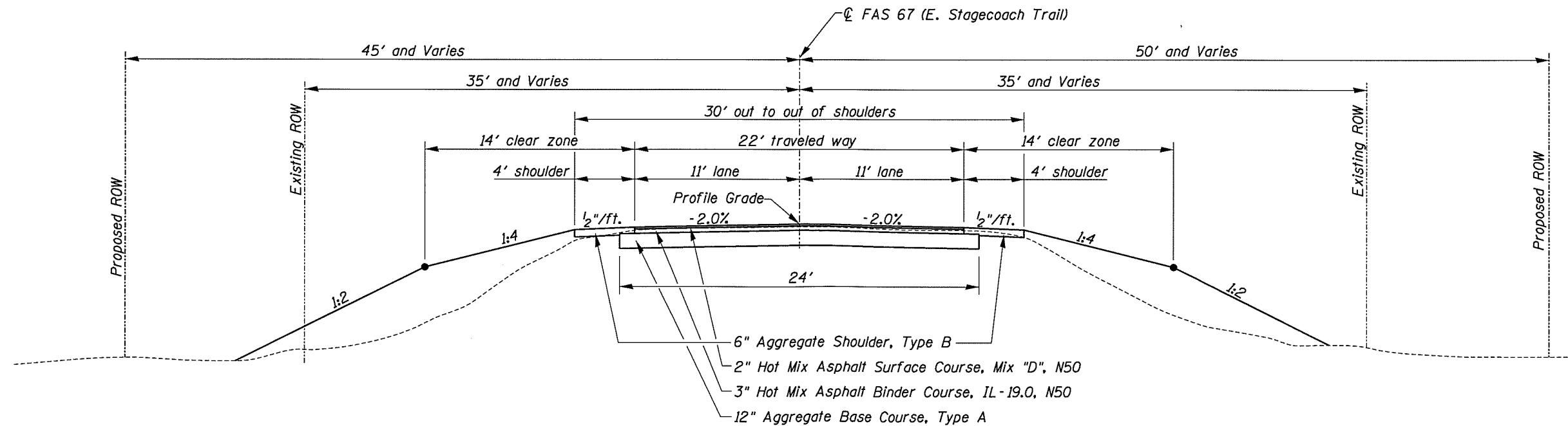
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F.A. Route	Section	County	Total Sheets	Sheet No.
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Illinois Fed. Aid Project



**Proposed Typical Section at
Station 100+00 to 101+00**



**Proposed Typical Section at
Station 101+00 to 104+00**



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CHECKED	REVISION	-

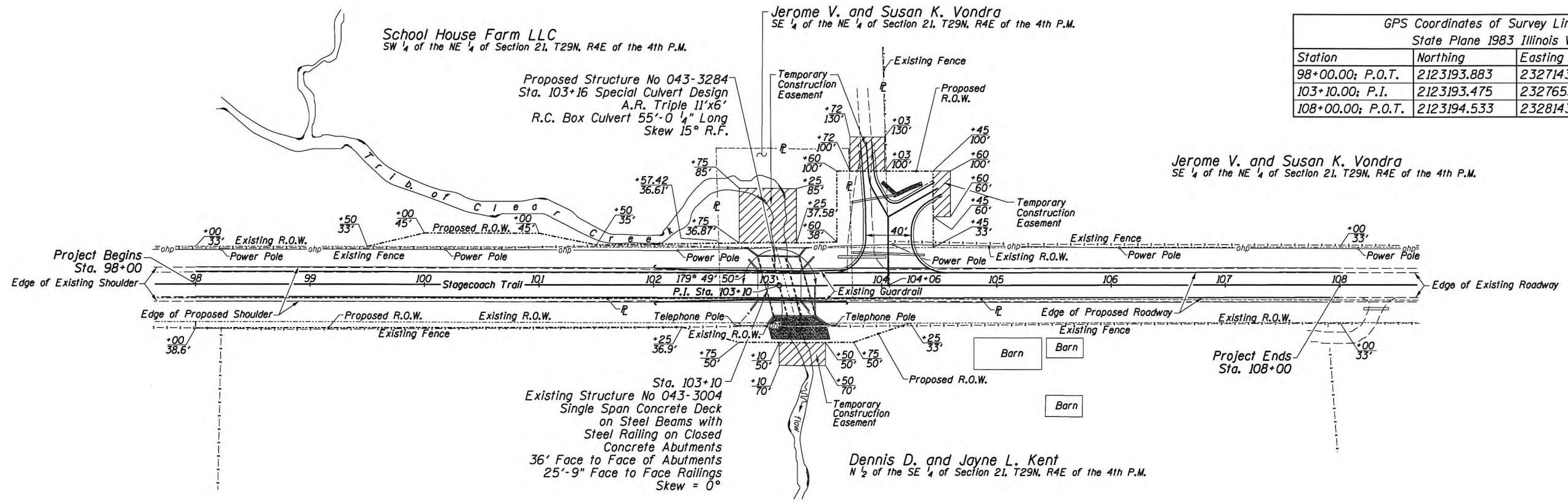
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
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Typical Sections and Details

SHEET NO. 3 OF 3

F.A. Route	Section	County	Total Sheets	Sheet No.
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Illinois Fed. Aid Project



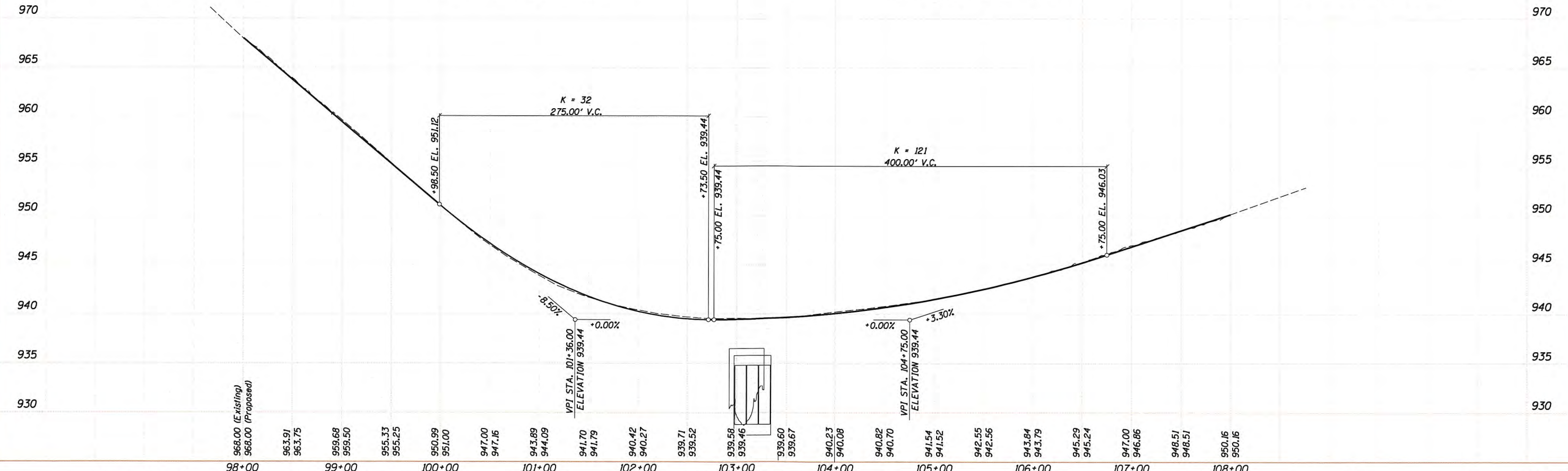
GPS Coordinates of Survey Line Points State Plane 1983 Illinois West			
Station	Northing	Easting	Description
98+00.00; P.O.T.	2123193.883	2327143.669	PK Nail
103+10.00; P.I.	2123193.475	2327653.669	PK Nail
108+00.00; P.O.T.	2123194.533	2328143.668	PK Nail

Benchmark # 1; Spike in Power Pole
Sta 102+21.4, 30.1' L; Elev. = 935.13

Benchmark # 4; Chiseled 'X' in SE Bridge Wingwall
Sta 103+28.8, 14.4' L; Elev. = 939.83

Benchmark # 2; Spike in Telephone Pole
Sta 103+59.3, 34.5' R; Elev. = 935.17

Benchmark # 3; Spike in Power Pole
Sta 104+10.1, 35.7' L; Elev. = 942.00'



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CHECKED	REVISIONS
DRAWN	REVISIONS
CHECKED	REVISIONS

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

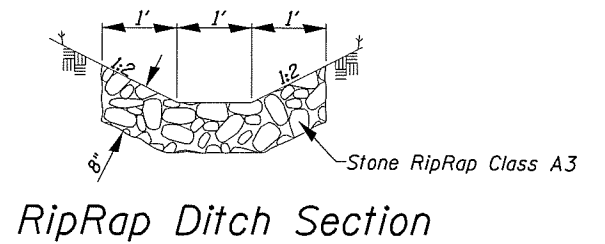
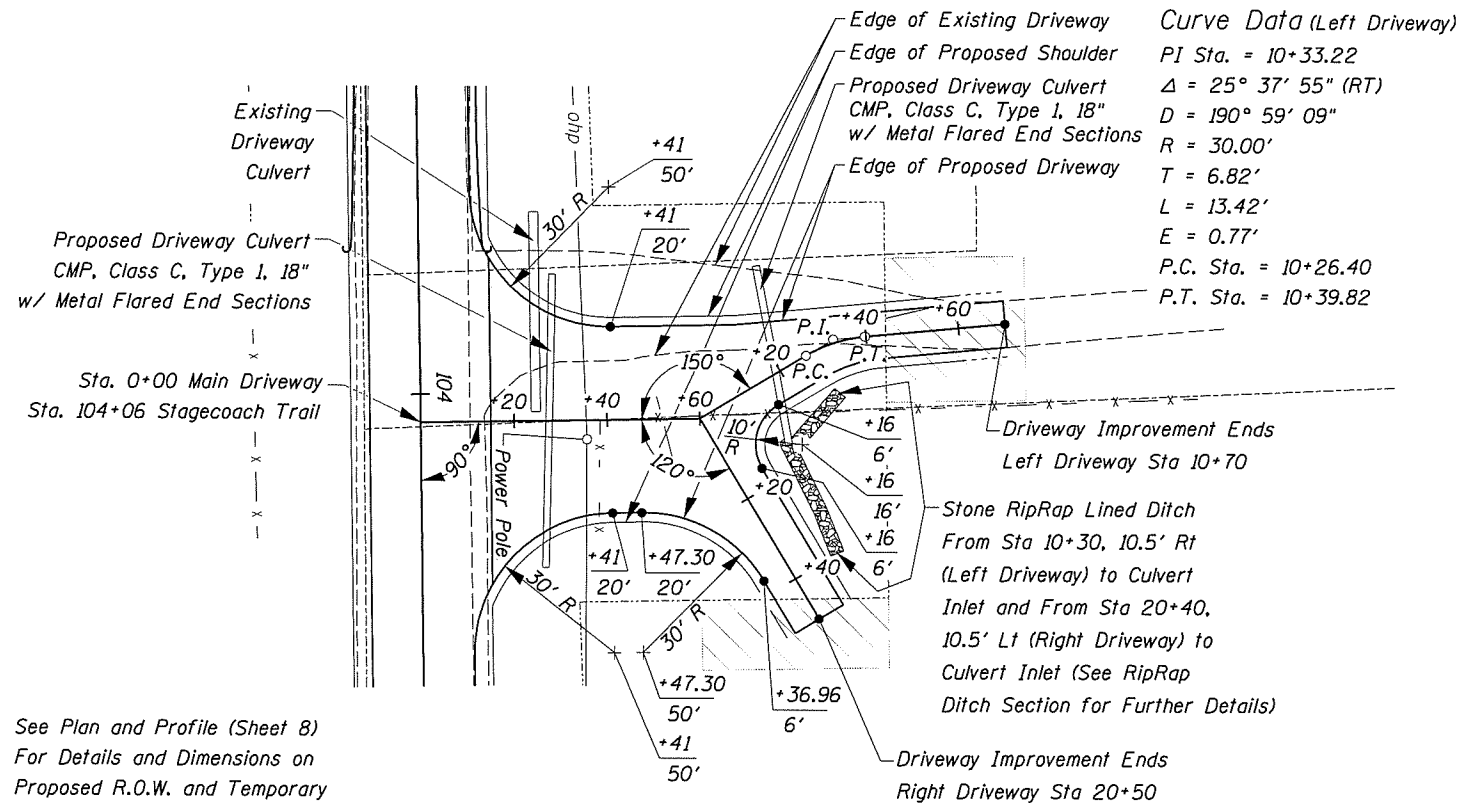
Plan and Profile

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	8

Contract No. 85663

SHEET NO. 1 OF 1

Illinois Fed. Aid Project



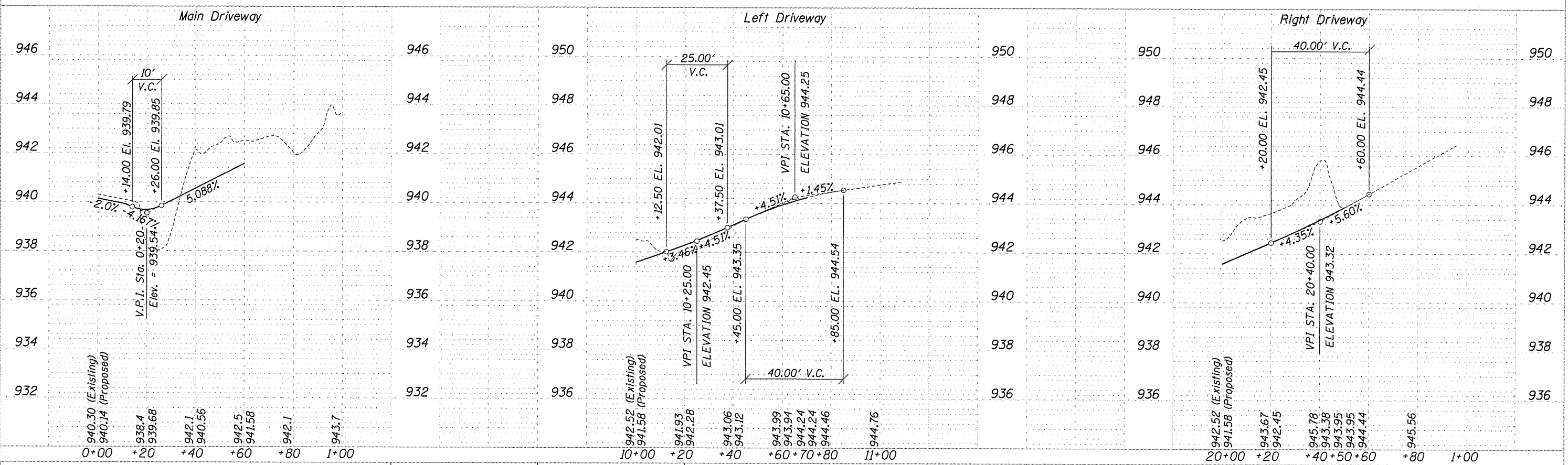
Proposed Culvert Details

- Main Drive Culvert**
 Diameter 18"; Length 63'
 Inlet Invert: Elevation = 937.91'
 Station 104+37.48; Offset 26.53' Lt (Stagecoach Trail)
 Station 0+26.53; Offset 31.48' Rt (Main Drive)
 Outlet Invert: Elevation = 936.15'
 Station 103+74.52; Offset 28.67 Lt (Stagecoach Trail)
 Station 0+28.67; Offset 31.48' Lt (Main Drive)
- Left Drive Culvert**
 Diameter 18"; Length 39'
 Inlet Invert: Elevation = 939.78'
 Station 10+13.54; Offset 14.55' Rt (Left Drive)
 Outlet Invert: Elevation = 939.27'
 Station 10+26.81; Offset 22.02' Lt (Left Drive)

See Plan and Profile (Sheet B)
 For Details and Dimensions on
 Proposed R.O.W. and Temporary
 Construction Easements

Station Equation:
 0+60 Main Drive = 10+00 Left Drive = 20+00 Right Drive

Driveway Plan



Jo Daviess County Highway Department
 1 Commercial Drive, Suite 3
 Hanover, IL 61041

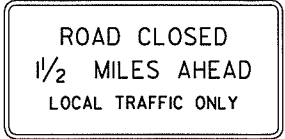
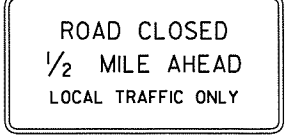
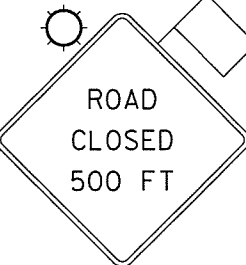
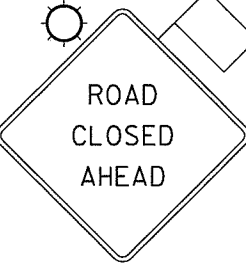


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CHECKED	REVISION

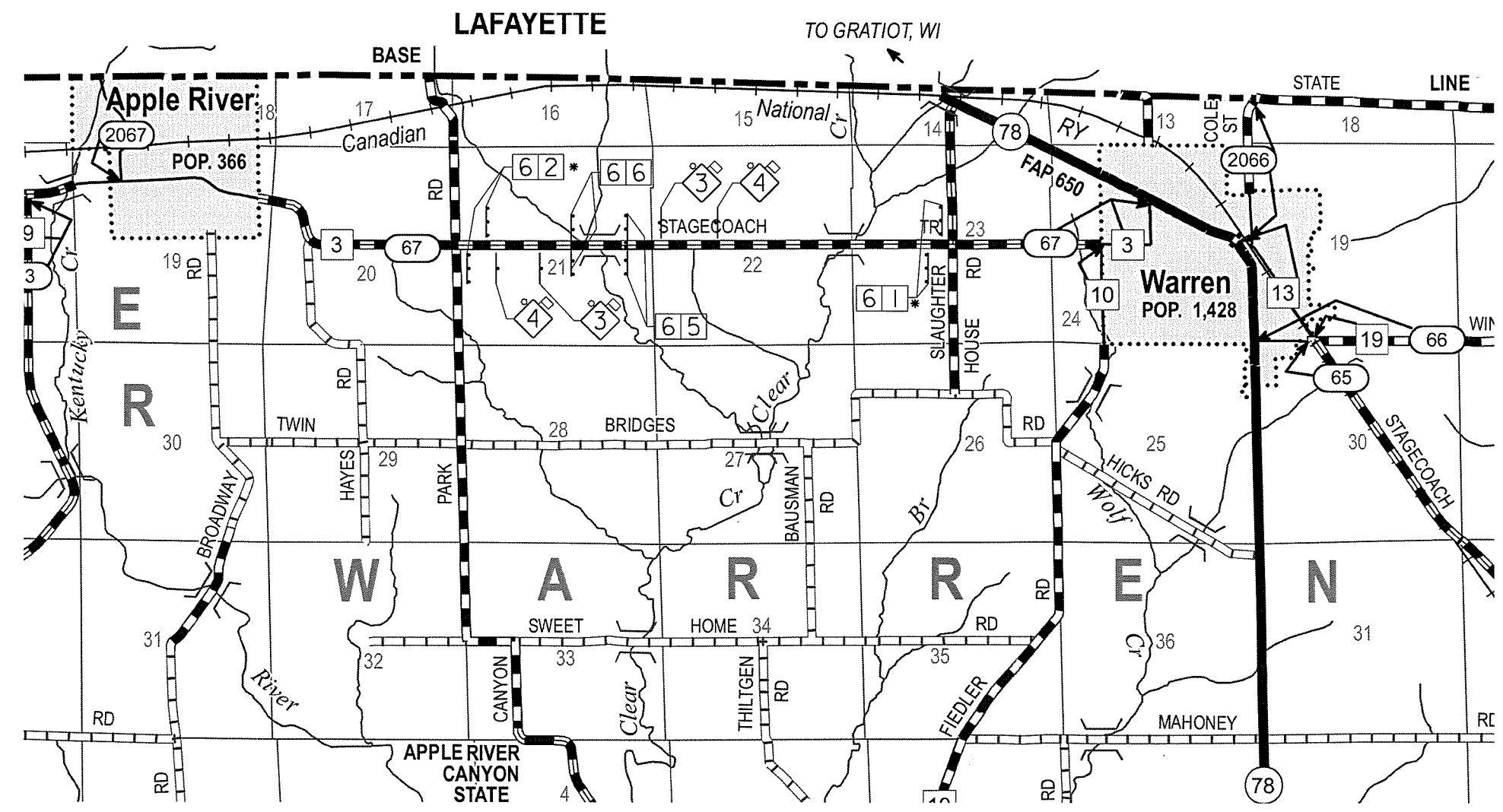
Jo Daviess County
 Stagecoach Trail - Clear Creek Tributary
 Bridge Replacement

Driveway Plan and Profile

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-0042-00-BR	Jo Daviess	24	9
Contract No. 85663				

Sign Legend

- 1  R11-3a, 60"x30"
(1 Req'd)
- 2  R11-3a, 60"x30"
(1 Req'd)
- 3  **W20-3, 48"x48"
With Amber Flashing
Lights and Flag
(2 Req'd)
- 4  **W20-3, 48"x48"
With Amber Flashing
Lights and Flag
(2 Req'd)
- 5  R11-2, 48"x30"
(4 Req'd)
- 6  Type III Barricades
with two Flashing
Lights Each
(8 Req'd)



Notes:

- * Staggered Barricades to Allow Local Traffic Access to Their Properties
- ** See the Applicable Standards for use of the Flags and Flashing Lights. Spacing of all Proposed Signs Shall be in Accordance with BLR 22

JDC
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 1 Commercial Drive, Suite 3
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CHECKED	REVISIONS

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Road Closure Plan

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	10
			Contract No. 85663	
Illinois Fed. Aid Project				

Erosion Control Notes:

Temporary erosion control seeding shall be applied at a rate of 100 lbs. /acres.

Erosion Control Blanket shall be installed to all disturbed areas with slopes equal to or greater than 1V:5H and in critical areas (i.e. detention basin perimeters, streambanks, berms, etc.) immediately upon final grading.

All adjacent streets must be kept clear of debris, inspected daily and cleaned when necessary.

All soil erosion and sediment control practices are referenced from the Illinois Urban Manual.

Temporary Ditch Checks shall comply with Section 280 of the Standard Specifications for Road and Bridge Construction and Standard 280001 located in the Proposal. Temporary Ditch Checks shall be constructed from products from the Department's approved list or shall be aggregate.

Temporary Ditch Checks shall be placed at 25' maximum centers and shall be placed at stations called out in the Schedule of Quantities or as directed by the Engineer.

Erosion Control Blanket shall be placed as shown on this Erosion Control Plan Sheet and in accordance with Section 251 of the Standard Specifications for Road and Bridge Construction.

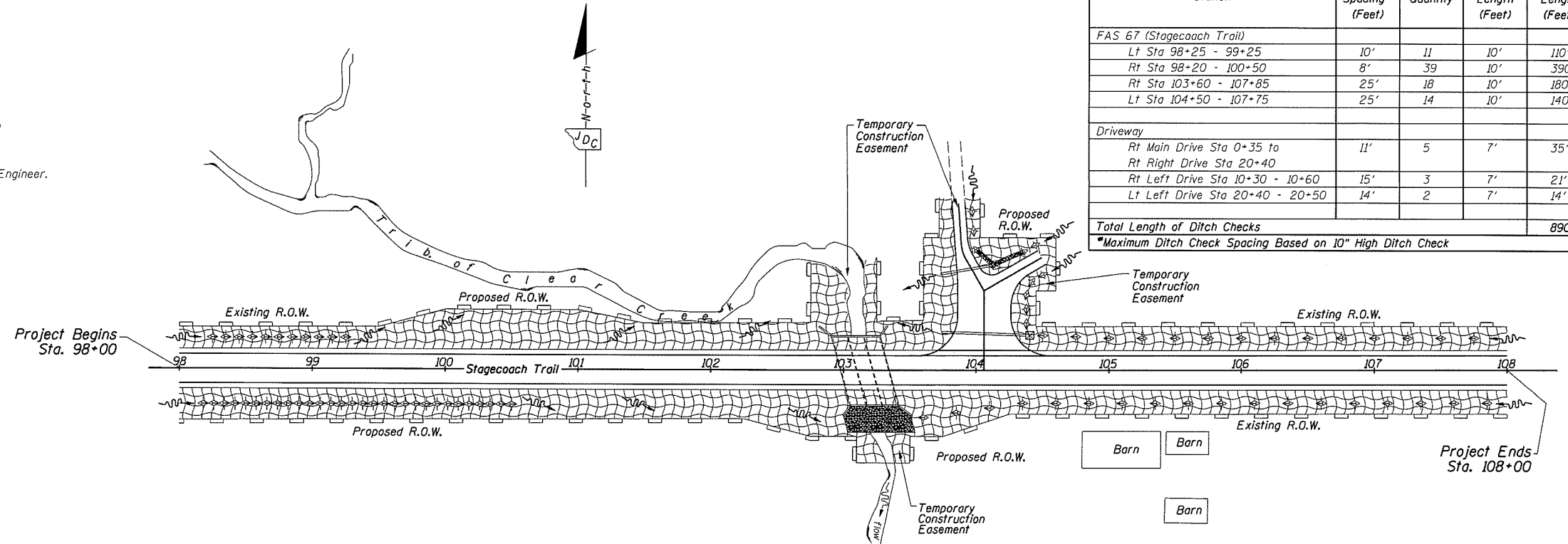
The use of green dye in the Erosion Control Blanket is not acceptable.

The use of asphalt as a binder is not acceptable.

All items shall be constructed as shown on Standard 280001 and as directed by the engineer. Maintenance and cleaning of the erosion control items shall be included in the respective erosion control pay item.

Erosion Control Legend

- Perimeter Erosion Barrier
- Inlet Protection
- Temporary Ditch Checks (with Direction of Flow)
- Erosion Control Blanket and Seeding Class 2
- Stone Rip Rap
- Drainage Flow



Ditch Check Schedule				
Station	Maximum Spacing* (Feet)	Quantity	Average Length (Feet)	Total Length (Feet)
FAS 67 (Stagecoach Trail)				
Lt Sta 98+25 - 99+25	10'	11	10'	110'
Rt Sta 98+20 - 100+50	8'	39	10'	390'
Rt Sta 103+60 - 107+85	25'	18	10'	180'
Lt Sta 104+50 - 107+75	25'	14	10'	140'
Driveway				
Rt Main Drive Sta 0+35 to Rt Right Drive Sta 20+40	11'	5	7'	35'
Rt Left Drive Sta 10+30 - 10+60	15'	3	7'	21'
Lt Left Drive Sta 20+40 - 20+50	14'	2	7'	14'
Total Length of Ditch Checks				890'
*Maximum Ditch Check Spacing Based on 10" High Ditch Check				

Storm Water Pollution Prevention Plan

The following plan is established and incorporated in the project to direct the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction. Other items shall be installed by the contractor as directed by the Engineer on a case by case situation depending on the contractor's sequence of activities, time of year, and expected weather conditions.

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein and as directed by the Engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The Engineer will determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems, which are not included in this plan, shall be added.

The contractor shall perform all work as directed by the Engineer and as shown in Standard 280001 of the plans.

Section 280, Temporary Erosion Control, of the Standard Specifications additionally supplements this plan.

Site Description

Description of Construction Activity:

- The project consists of a bridge removal and replacement with a cast in place reinforced concrete box culvert and approach road way improvements on Stagecoach Trail (FAS Route 67) where it crosses a tributary of Clear Creek.
- Construction includes earth excavation, furnished excavation, concrete box culverts, aggregate base course, HMA pavement and other miscellaneous items of construction.

Description of Intended Sequence for Major Construction Activities Which Will Disturb Soils from Major Portions of the Construction Site:

- Install perimeter erosion barrier as directed by the Engineer.
- Stump removal and stripping topsoil.
- Earth excavation, shaping of ditches, and placement of temporary ditch checks.
- Aggregate base, bituminous surface and related appurtenances.
- Placement of permanent erosion control in ditches including seeding and erosion control blanket.

Miscellaneous:

All erosion control products furnished shall be specifically recommended by the manufacturer for the use specified in the erosion control plan, prior to the approval and use of the product, the contractor shall submit to the Engineer a notarized certification by the producer stating the intended use of the product and that the physical properties required for this application are met or exceeded. The contractor shall provide manufacturer installation procedures to facilitate the Engineer in construction inspection.

Area of Construction Site:

The total area of the construction site is estimated to be 1.88 acres of which 1.10 acres will be disturbed by excavation, grading, and other activities.

Other Reports, Studies and Plans Which Aid in the Development of the Storm Water Pollution Prevention Plan as Referenced Documents:

- Information of the soils and terrain within the site was obtained from soil borings that were utilized for the development of the culvert plans, USGS Quad Maps, IDOT Lidar data, and the Jo Daviess County Soil Survey.
- Project plan documents, specifications and special provisions, and plan drawings indicating drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

Controls - Erosion Controls and Sediment Controls

Description of Stabilization Practices at the Beginning of Construction:

- In the drawings, specifications and special provisions will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include: temporary seeding, permanent seeding, perimeter erosion barrier, and other appropriate measures as directed by the Engineer. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity if that portion of the site has temporarily or permanently ceased.
 - Areas of existing vegetation (wood and grasslands) outside the proposed construction limits shall be identified by the Engineer for preserving and shall be protected from construction activities.
 - Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required stump removal.
 - As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks and perimeter erosion barrier shall be installed as called out in this plan and directed by the Engineer.
 - Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are expected within seven days.
 - At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line.
- Establishment of these temporary erosion control measures will have additional benefits to the project, desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and over seeding can be completed.

Description of Stabilization Practices During Construction:

- During construction, areas outside the construction limits as outlined previously herein shall be protected, the contractor shall not use this area for staging (except as described on the plans and directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - Within the construction limits, areas which may be susceptible to erosion as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - Earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - As construction proceeds, the contractor shall institute the following as directed by the Engineer:
 - Place temporary erosion control facilities at locations shown on the plans.
 - Temporarily seed erodible bare earth on a weekly basis to minimize the amount of erodible surface area within the contract limits.
 - Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction activity in the area is planned for 7 days.
 - Construction equipment shall be stored and fueled only at designated locations, all necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations, leaking equipment or supplies shall be immediately repaired or removed from the site.
 - The resident engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 1/2 inch or greater or equivalent snowfall and during the winter shutdown period. The project shall additionally be inspected by the construction field engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other erosion control work is necessary.
 - Sediment collected during construction of the various temporary erosion control systems shall be disposed of on site on a regular basis as directed by the Engineer. The cost of this maintenance shall be included in the unit bid price for various temporary erosion control pay items.
 - The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The cost of this removal shall be included in the unit bid price for various temporary erosion control pay items.

Description of Structural Practices After Final Grading:

- Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

Maintenance After Construction:

- Construction is complete after acceptance by IDOT's final inspection. Maintenance up to this date will be by the contractor.

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1 Commercial Drive, Suite 3
Hanover, IL 61041

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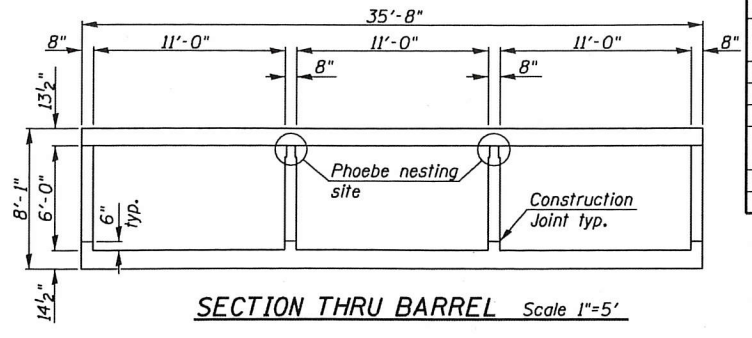
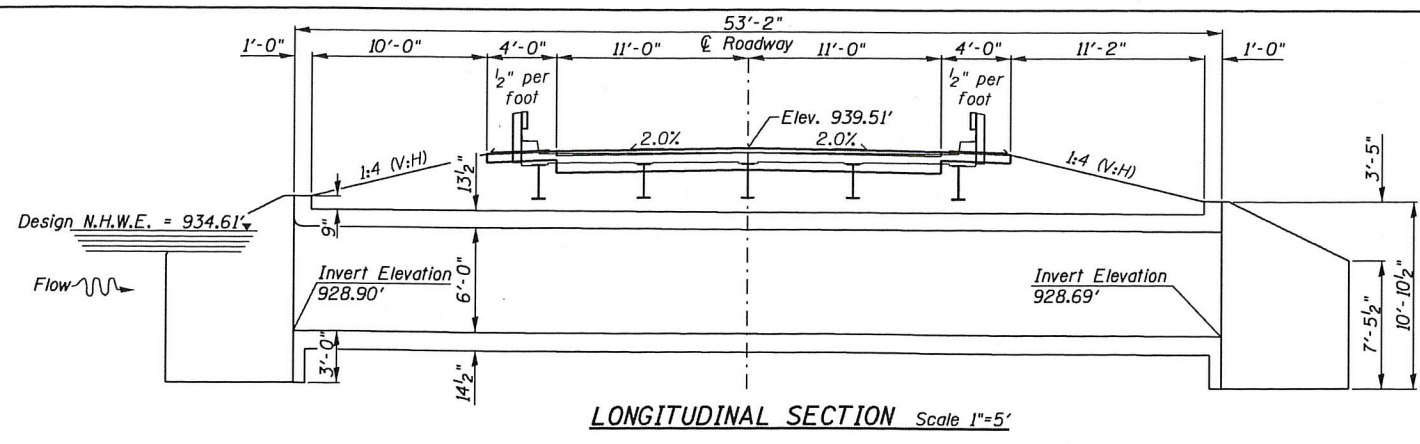
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Erosion Control Plan

SHEET NO. 1 OF 1

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	11
Contract No. 85663				

Illinois Fed. Aid Project



BILL OF MATERIAL - CULVERT

ITEM	UNIT	SUPER	SUB	TOTAL QUANTITY
Porous Granular Embankment, Special	Ton	---	303	303
Stone Riprap, Class A5	Sq. Yd.	---	110	110
Filter Fabric	Sq. Yd.	---	110	110
Removal of Existing Structures	Each	---	---	1
Reinforcement Bars, Epoxy Coated	Pound	---	41,540	41,540
Name Plates	Each	---	1	1
Concrete Box Culverts	Cu. Yd.	---	219.9	219.9

GENERAL NOTES:
 Reinforcement bars designated (E) shall be epoxy coated.
PRECAST CULVERT OPTION NOT ALLOWED.

WATERWAY INFORMATION

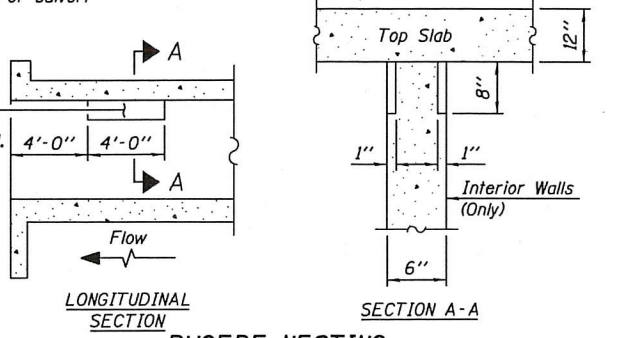
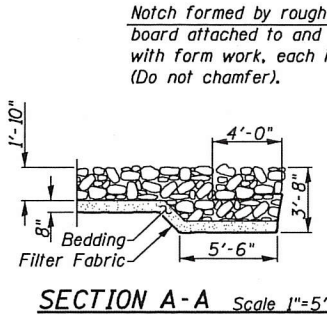
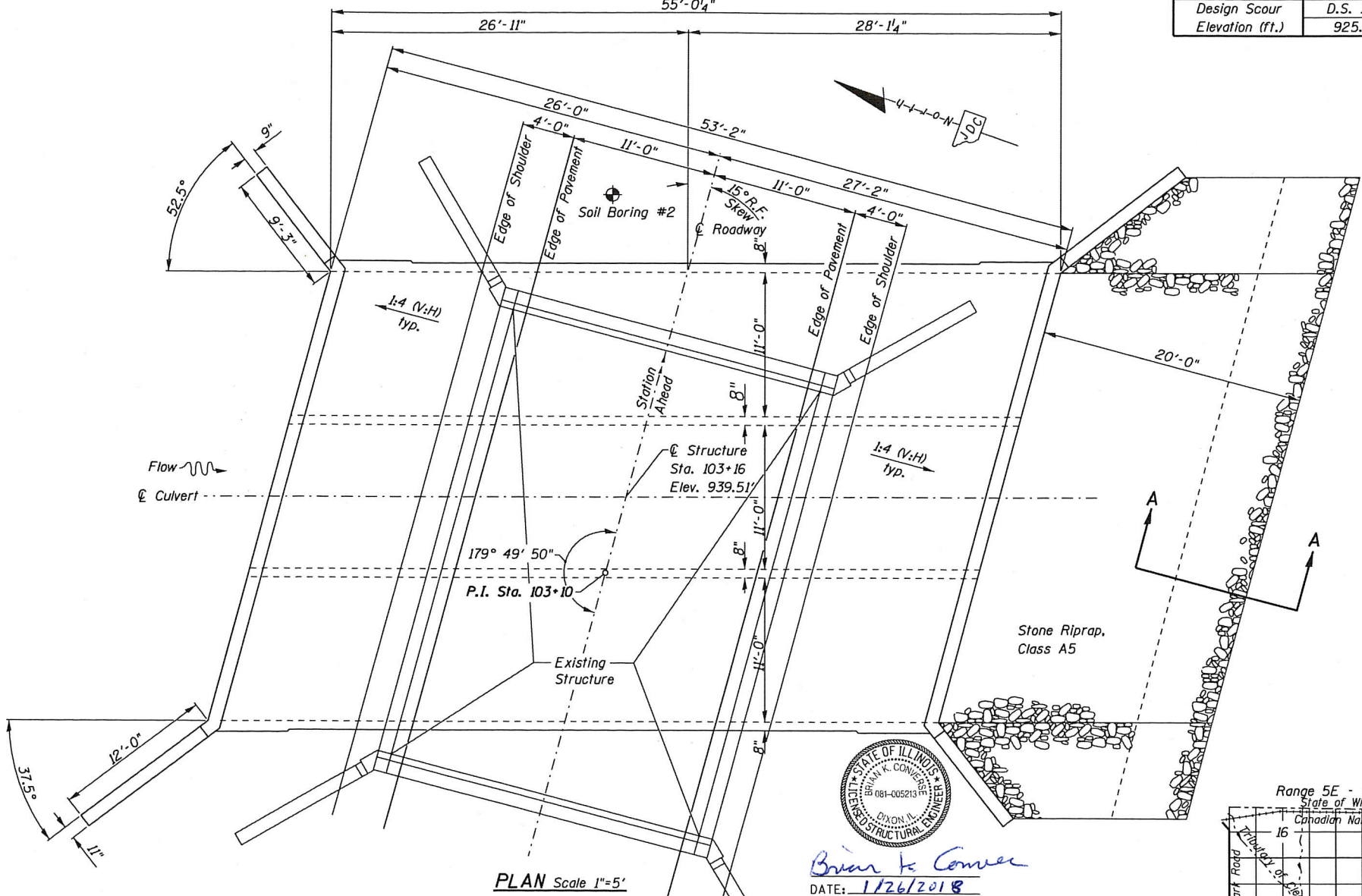
Drainage Area = 3.44 sq. mi. Low Grade Elev. 939.44' @ Sta. 102+75

Flood Year	Freq. Year	0 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.
Design	20	1026	147	188	934.6'	0.9'	0.2'	935.5'	934.8'
Base	100	1570	159	198	934.9'	1.8'	1.0'	936.7'	935.9'
Overtopping									
Max. Calc.	500	2170	170	198	935.2'	2.8'	2.5'	938.0'	937.7'

* upstream face of culvert

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	925.69'	925.90'



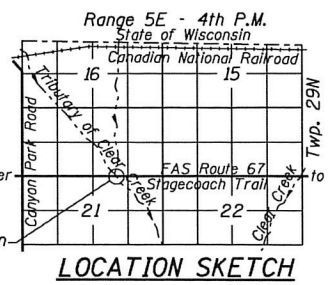
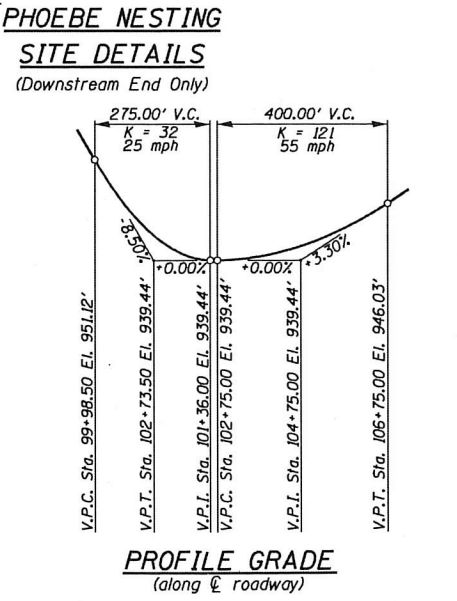
HIGHWAY CLASSIFICATION
 F.A.S. Route 67 (Stagecoach Trail)
 ADT: 1000(2010); 1100(2037)
 ADTT: 50(2010); 55(2037)
 DHV: 120
 Functional Class: Major Collector
 Design Speed 40 mph
 Posted Speed 55 mph
 2-Way Traffic
 Directional Distribution 50:50

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.029
 Design Spectral Acceleration at 0.2 sec (S_{D2}) = 0.065
 Soil Site Class = B

DESIGN STRESSES
 FIELD UNITS
 f_c = 3,500 psi
 f_y = 60,000 psi (reinforcement)



Brian K. Conner
 DATE: 1/26/2018
 EXPIRES 11/30/18
 "I certify that to the best of my knowledge, information and belief, this Bridge Design is structurally adequate for the design loading shown on the plans, the design is an economical one complies with requirements of the current Project Location AASHTO Standard Specifications for Highway Bridges."

Jo Daviess County Highway Department
 1 Commercial Drive, Suite 3
 Hanover, IL 61041

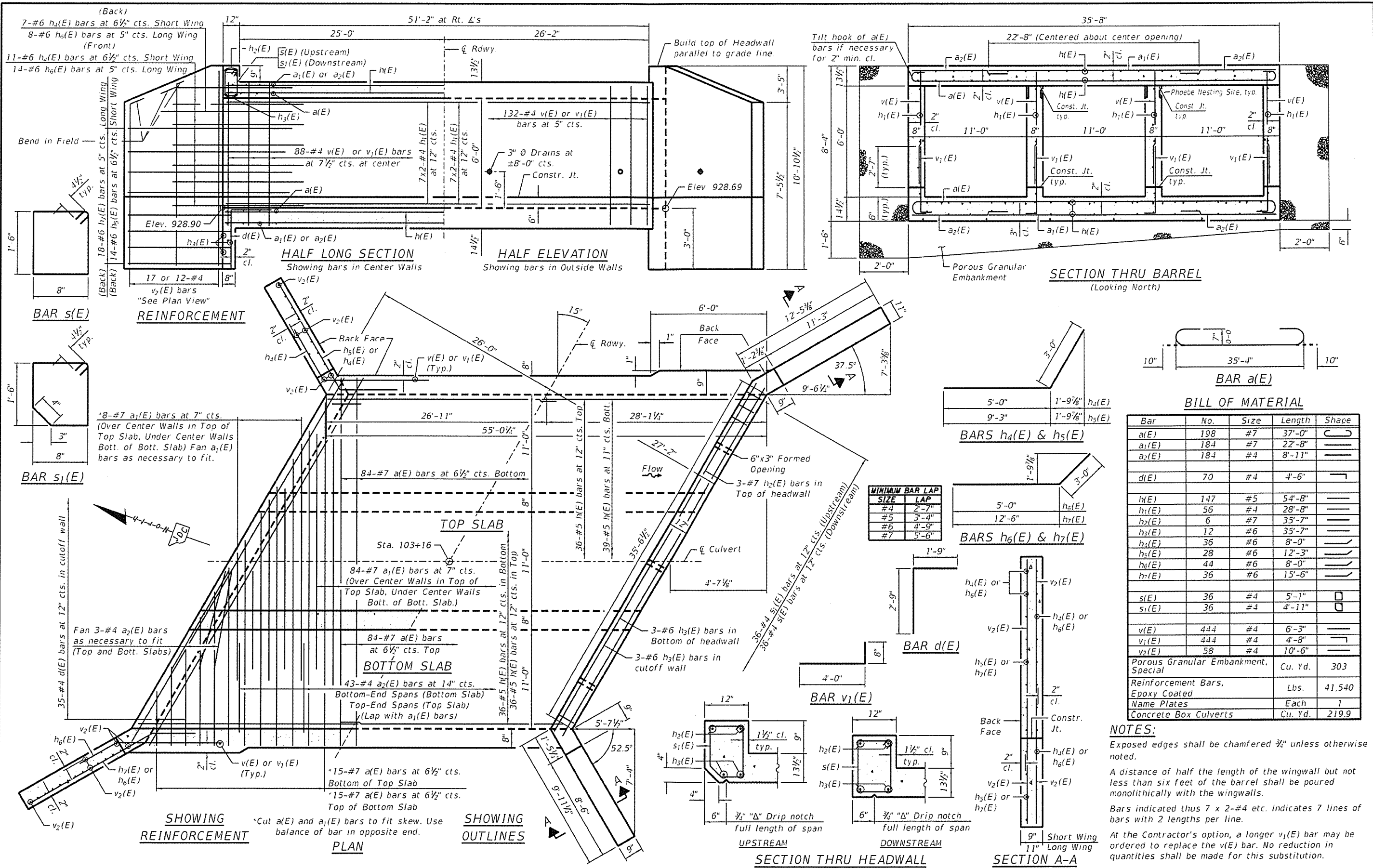
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	REVISIONS

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

General Plan and Elevation

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	12-00142-00-BR	Jo Daviess	24	12

Contract No. 85663
 ILLINOIS Fed. Aid Project



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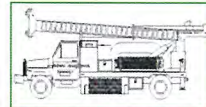
JDC Jo Daviess County Highway Department
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Hanover, IL 61041

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Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Culvert Details
SHEET NO. 1 OF 1

F.A. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	12-00M2-00-BR	Jo Daviess	24	13
Contract No. 85663				ILLINOIS
				Fed. Aid Project



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Sheet 1 of 1

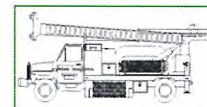
Client: Jo Davies County
Project Name: Stagecoach Trail
Project Site: Warren Twp. Section 21 West Bridge
Jo Davies County

Boring No. B-1
Surface Elev. 99.90
Auger Depth 21' Rotary Depth NA
Start Date 05/03/14 Finish Date 05/03/14

Location: 31' West of center of existing Structure
and 7' North of centerline of roadway

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
99.90										Randy Safranski Diedrich D-120	
98.90	Stiff Brown Silty Clay (Fill)		1								
97.90			2								
96.90			3	1	SS	1.7	12	S	18		
95.90			4								
94.90			5								
93.90			6	2	SS	1.3	10	B	22		
92.90	Stiff Brownish Black And Gray Silty Clay		7								
91.90			8	3	SS	1.1	6	B	25		
90.90			9								
89.90	Stiff Black Silty Clay		10								
88.90			11	4	SS	1.2	7	B	23		
87.90			12								
86.90	Medium Brown Gravely Loam		13	5	SS	---	15	---	---		
85.90			14								
84.90			15								
83.90	Dense Limestone Fragments		16	6	SS	---	44	---	---		
82.90			17								
81.90	Very Dense Limestone		18	7	SS	---	100 2"	---	---		
80.90			19								
79.90			20	8	SS	---	100 1"	---	---		

Groundwater Data: Static water level after auger removal - Elevation 87.0.
Comments: *Assumed center of existing structure as 100.0. =939.5*



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Sheet 1 of 1

Client: Jo Davies County
Project Name: Stagecoach Trail
Project Site: Warren Twp. Section 21 West Bridge
Jo Davies County

Boring No. B-2
Surface Elev. 99.90
Auger Depth 21' Rotary Depth NA
Start Date 05/03/14 Finish Date 05/03/14

Location: 28' West of center of existing Structure
and 7' North of centerline of roadway

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
99.90										Randy Saransk Dietrich D-120	
98.90	Stiff Brown Silty Clay With Limestone Fragments (Fill)		1								
97.90			2								
96.90			3	1	SS	1.2	10	B	20		
95.90			4								
94.90			5								
93.90			6	2	SS	1.3	10	B	21		
92.90	Stiff Brown Silty Clay		7								
91.90			8	3	SS	1.0	7	B	23		
90.90			9								
89.90	Medium Brown Gravely Loam		10								
88.90			11	4	SS	---	17	---	---		
87.90			12								
86.90	Medium Brown Limestone Fragments		13	5	SS	---	20	---	---		
85.90			14								
84.90	Very Dense Limestone Fragments		15								
83.90			16	6	SS	---	52	---	---		
82.90			17								
81.90	Very Dense Limestone		18	7	SS	---	100 7"	---	---		
80.90			19								
79.90			20	8	SS	---	100 1"	---	---		

Groundwater Data: Static water level after auger removal - Elevation 87.0.
Comments: *Assumed center of existing structure as 100.0. =939.5*



Jo Daviess County Highway Department
1 Commercial Drive, Suite 3
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CHECKED	REVISION	-
DRAWN	REVISION	-
CHECKED	REVISION	-

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

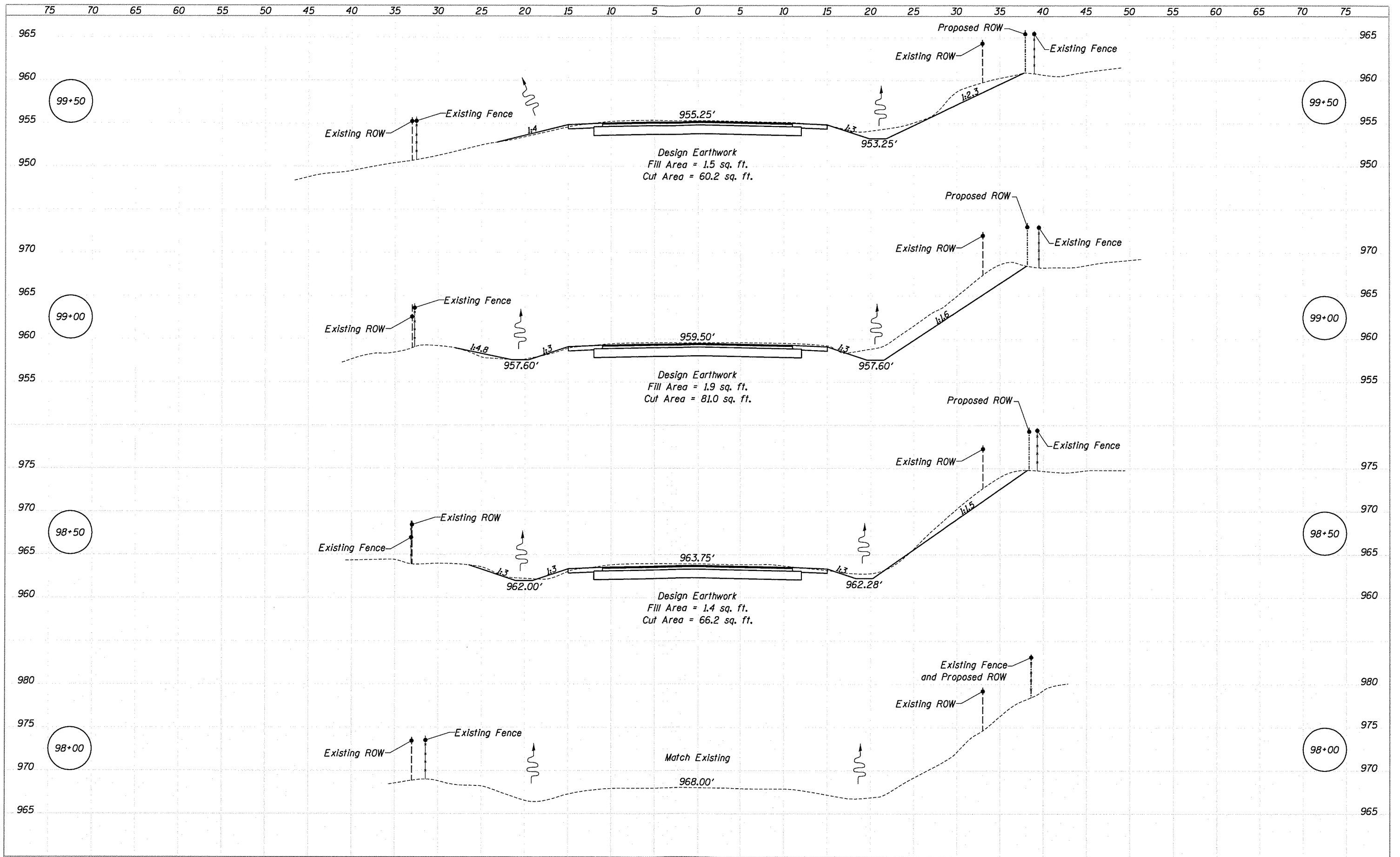
Soil Borings

SHEET NO. 1 OF 1

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	14

Contract No. 85663

Illinois Fed. Aid Project



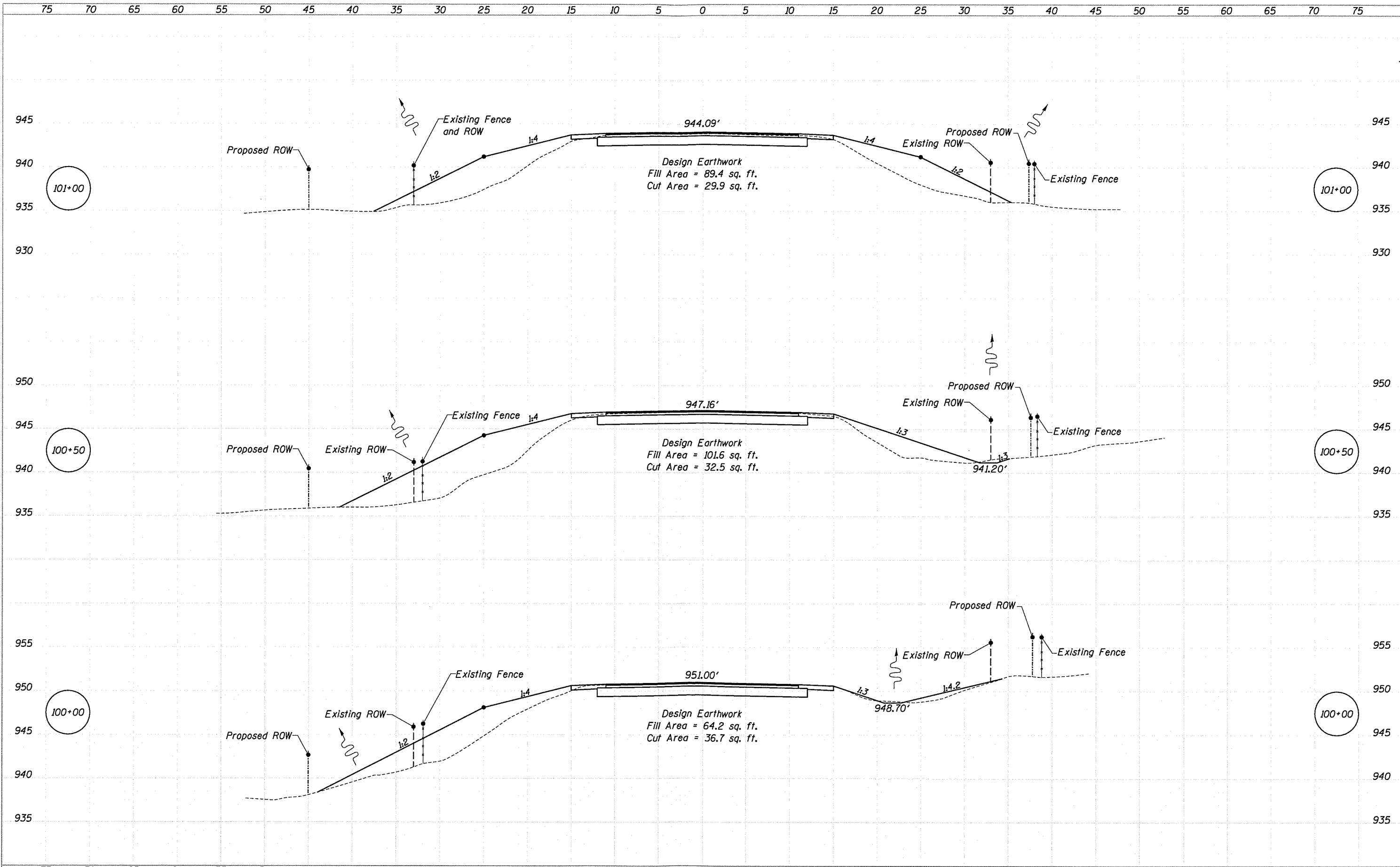
Jo Daviess County Highway Department
 1 Commercial Drive, Suite 3
 Hanover, IL 61041

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CHECKED	REVISIONS	-
DRAWN	REVISIONS	-
CHECKED	REVISIONS	-

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 1 OF 6
 STA. 98+00 TO STA 99+50

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	15
				Contract No. 85663
Illinois Fed. Aid Project				



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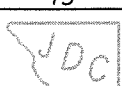
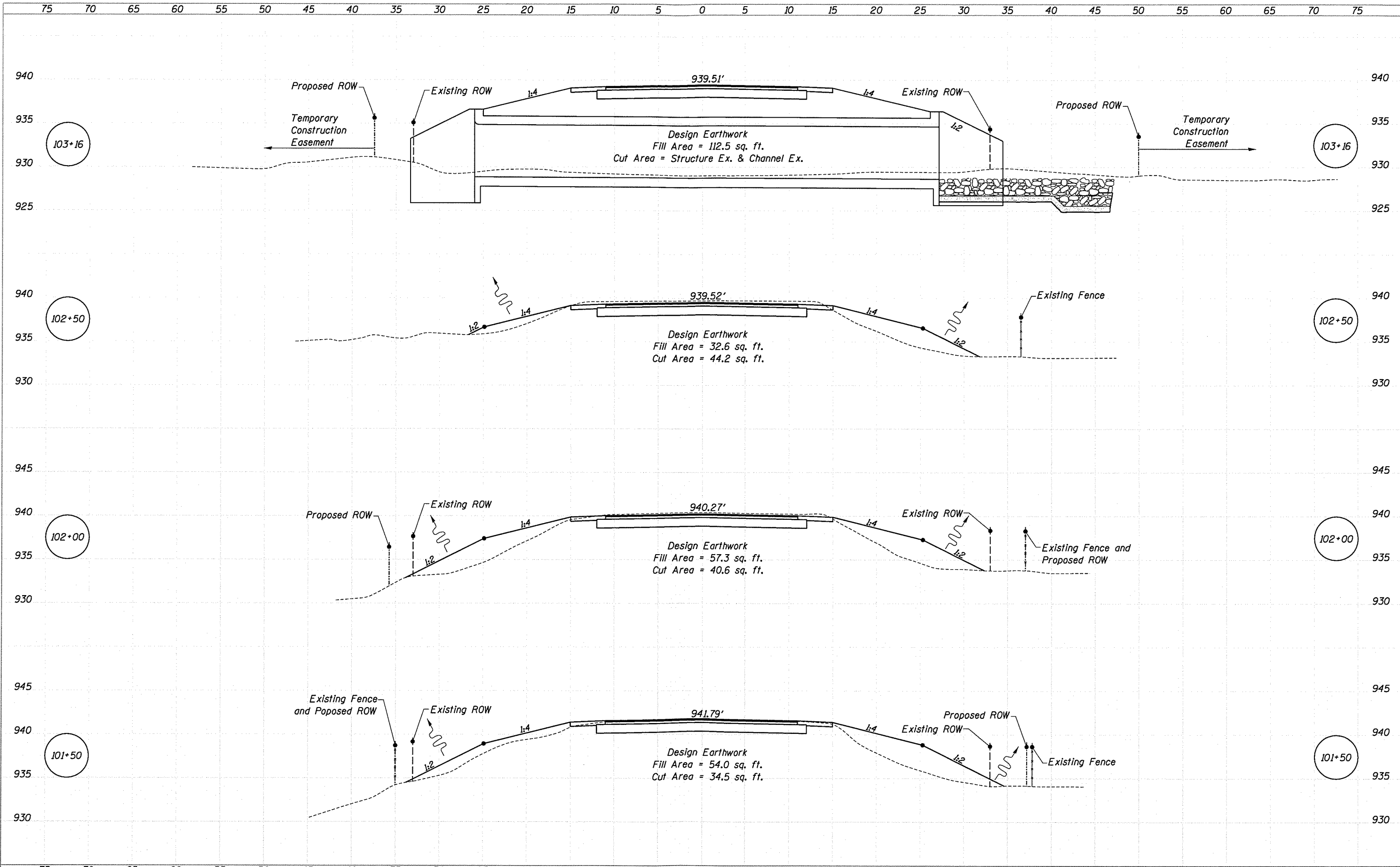
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CHECKED	REVISIONS	-
DRAWN	REVISIONS	-
CHECKED	REVISIONS	-

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Cross Sections

SCALE: 1" = 5'-0" SHEET NO. 2 OF 6 STA. 100+00 TO STA. 101+00

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	16
			Contract No. 85663	
Illinois Fed. Aid Project				



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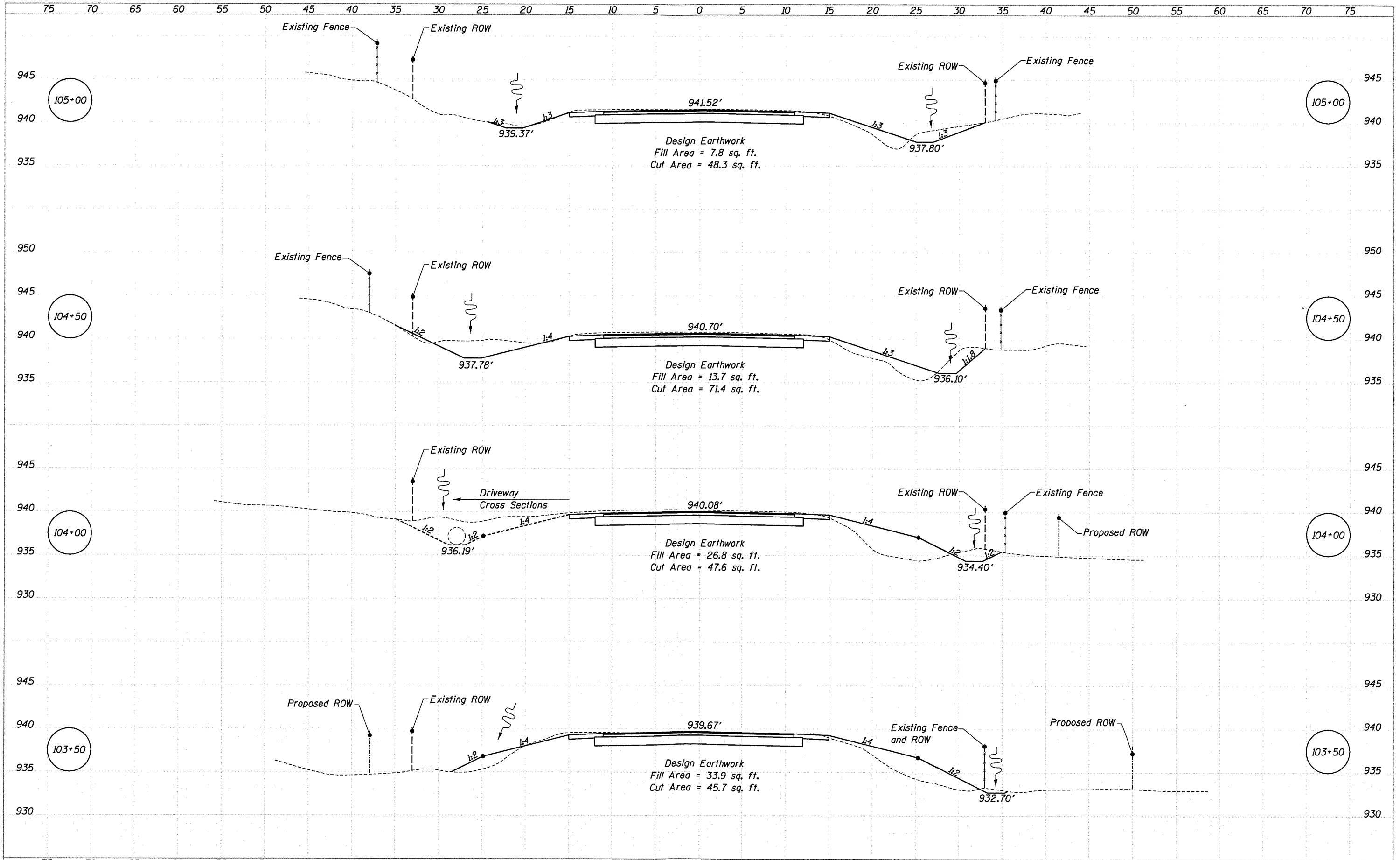
DESIGNED	REVISED -
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DRAWN	REVISED -
CHECKED	REVISED -

Jo Daviess County
 Stagecoach Trail - Clear Creek Tributary
 Bridge Replacement

Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 3 OF 6
 STA. 101+50 TO STA 103+16

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	17

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DESIGNED	REVISED -
CHECKED	REVISED -
DRAWN	REVISED -
CHECKED	REVISED -

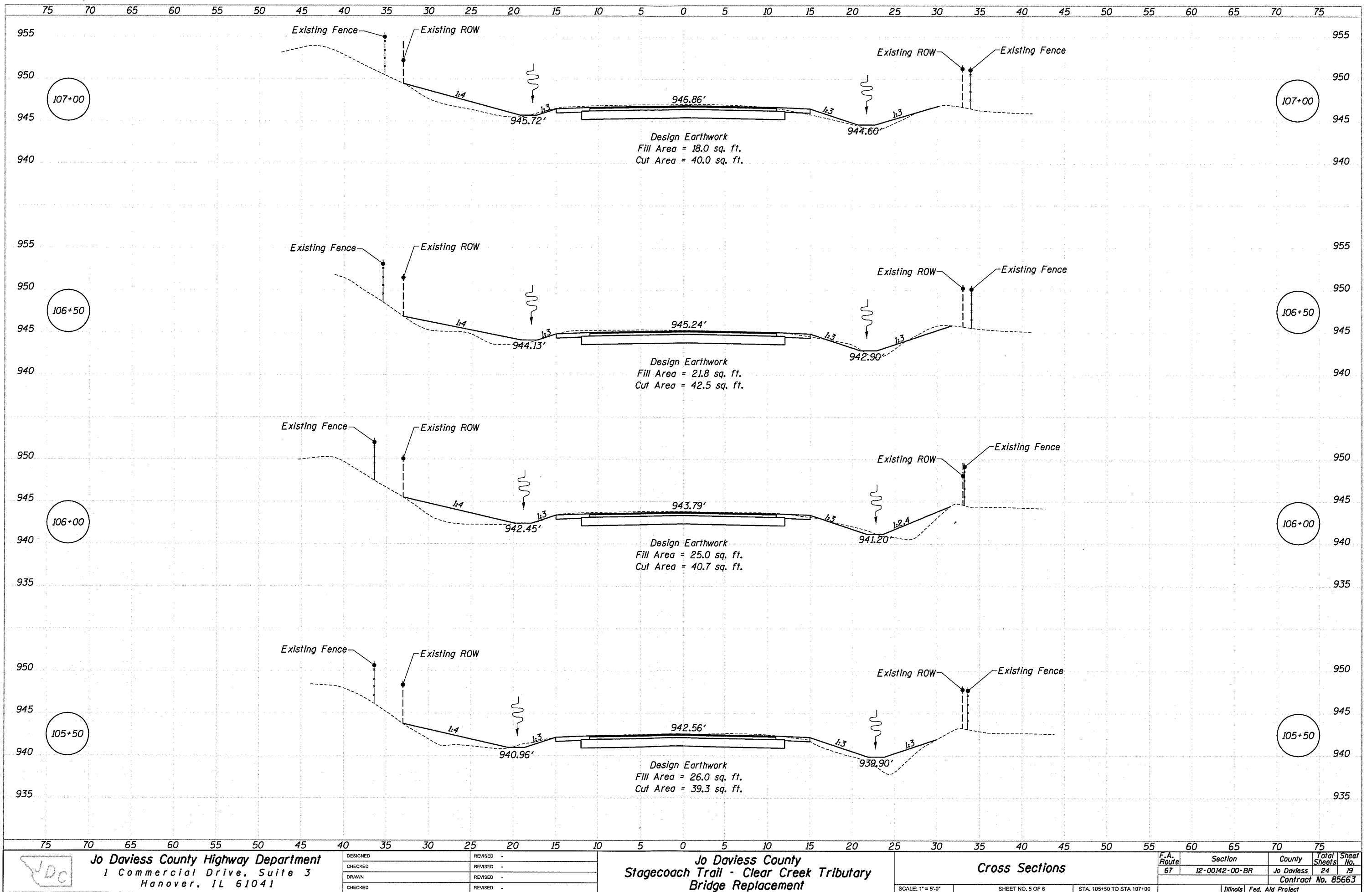
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Cross Sections

SCALE: 1" = 5'-0" SHEET NO. 4 OF 6 STA. 103+50 TO STA 105+00

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	18

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DESIGNED	REVISED -
CHECKED	REVISED -
DRAWN	REVISED -
CHECKED	REVISED -

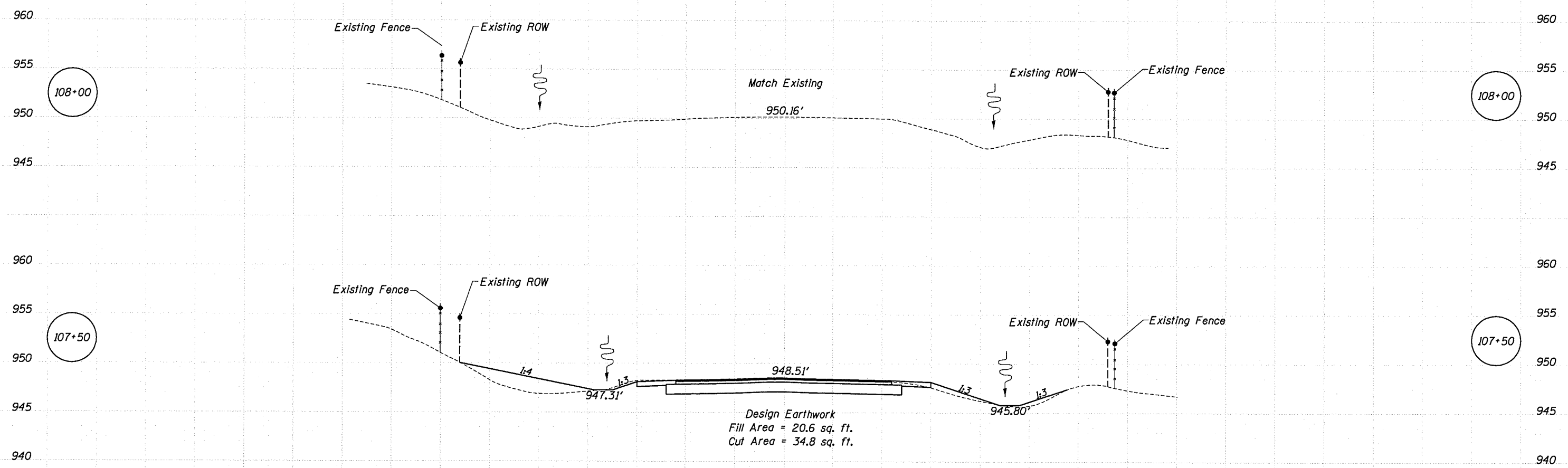
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 5 OF 6
 STA. 105+50 TO STA 107+00

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	19

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



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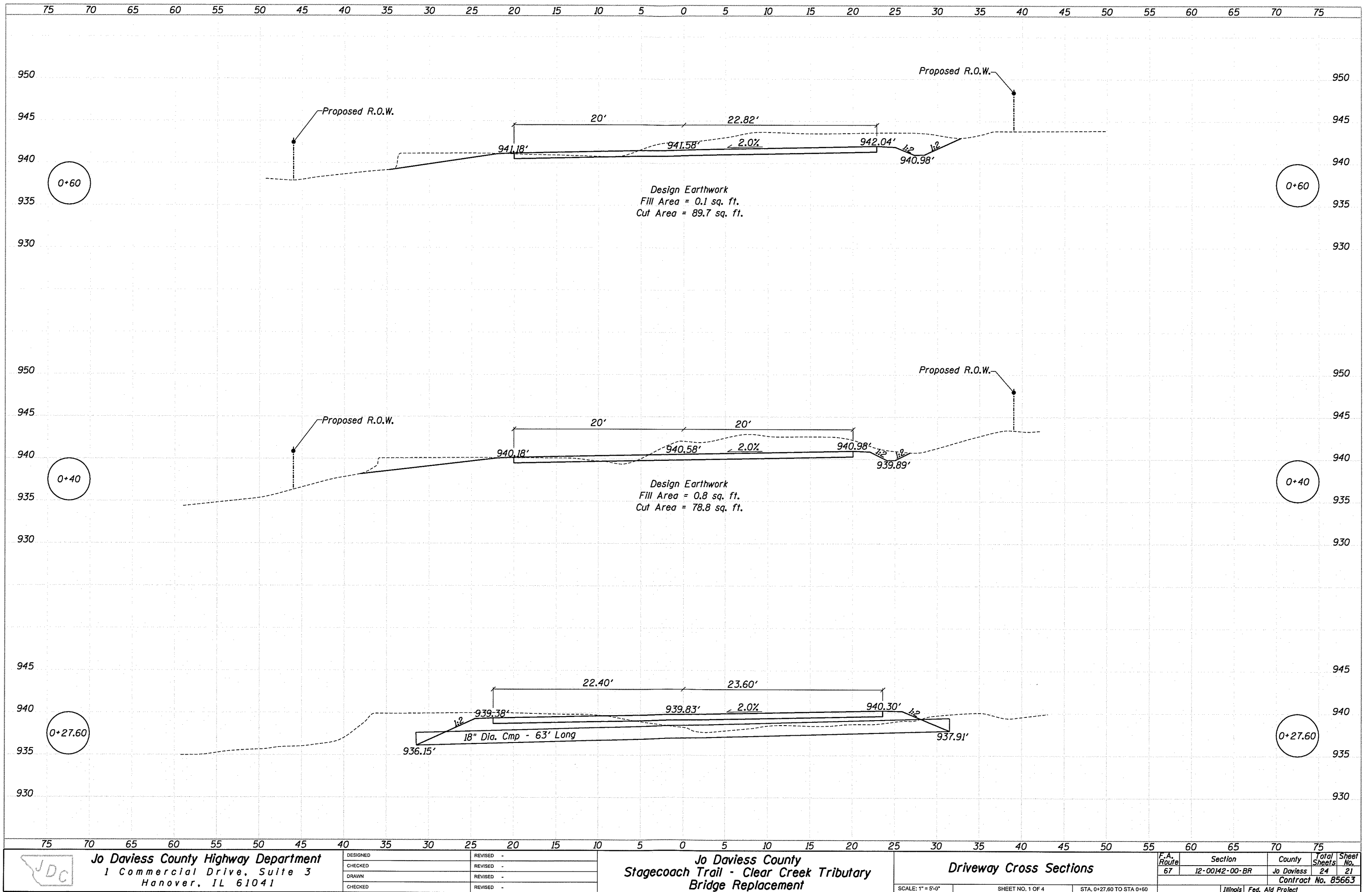
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DESIGNED	REVISIONS	-
CHECKED	REVISIONS	-
DRAWN	REVISIONS	-
CHECKED	REVISIONS	-

Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 6 OF 6
 STA. 107+50 TO STA 108+00

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	20
				Contract No. 85663
Illinois Fed. Aid Project				



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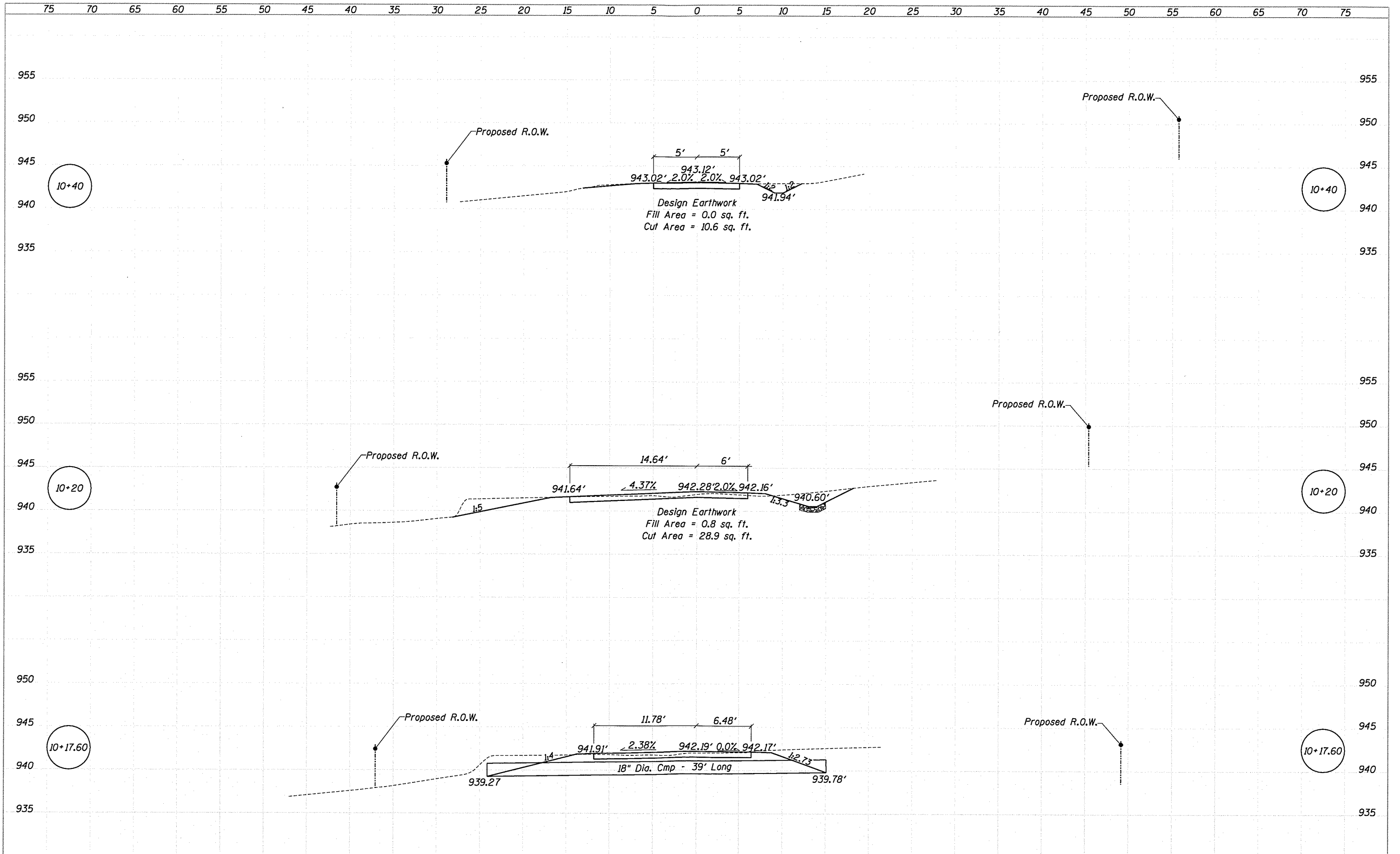
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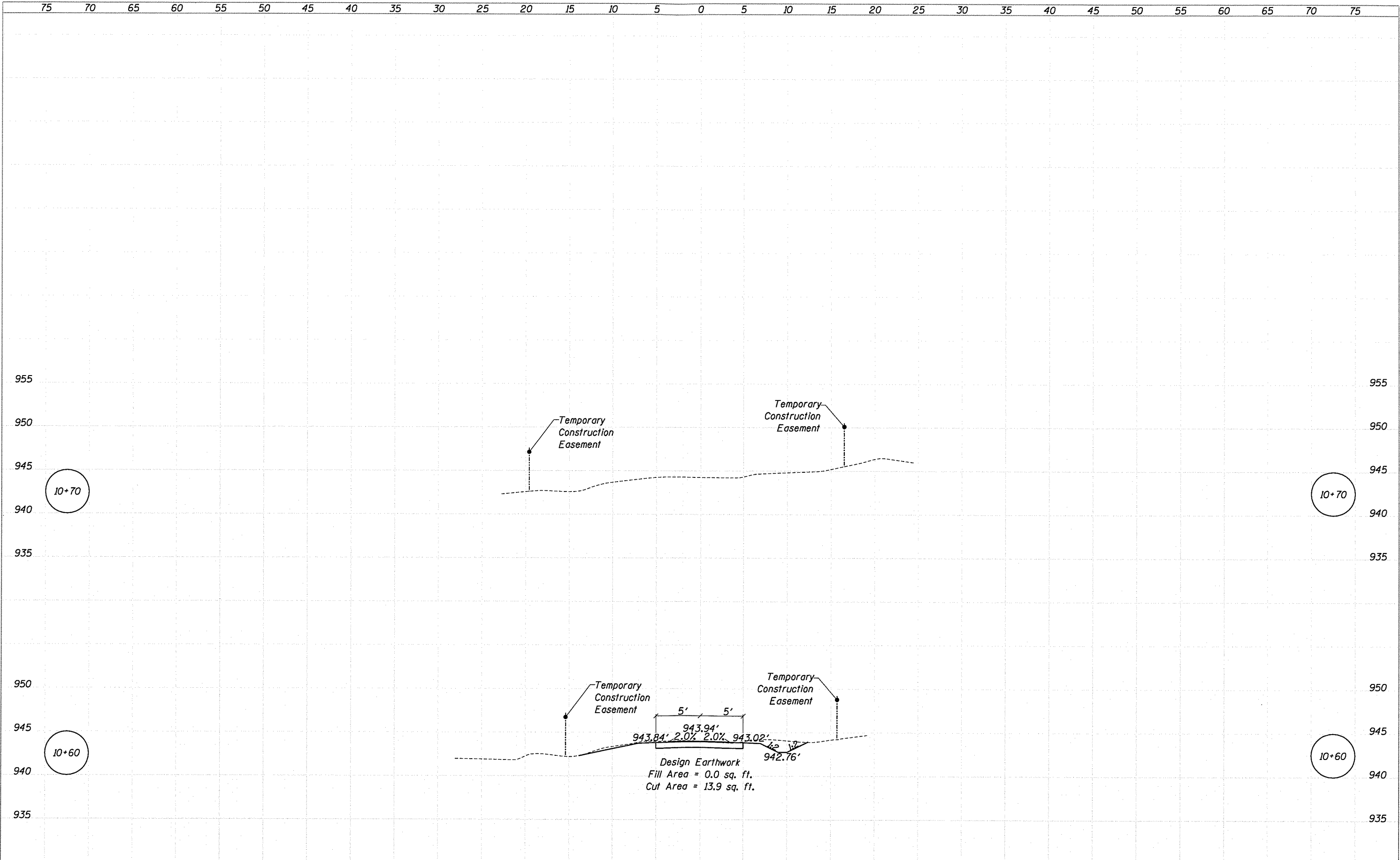
Jo Daviess County
Stagecoach Trail - Clear Creek Tributary
Bridge Replacement

Driveway Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 1 OF 4
 STA. 0+27.60 TO STA 0+60

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	21

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DESIGNED	REVISED -
CHECKED	REVISED -
DRAWN	REVISED -
CHECKED	REVISED -

Jo Daviess County
 Stagecoach Trail - Clear Creek Tributary
 Bridge Replacement

Driveway Cross Sections
 SCALE: 1" = 5'-0"
 SHEET NO. 3 OF 4
 STA. 0+60 TO STA 0+70

F.A. Route	Section	County	Total Sheets	Sheet No.
67	12-00142-00-BR	Jo Daviess	24	23

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