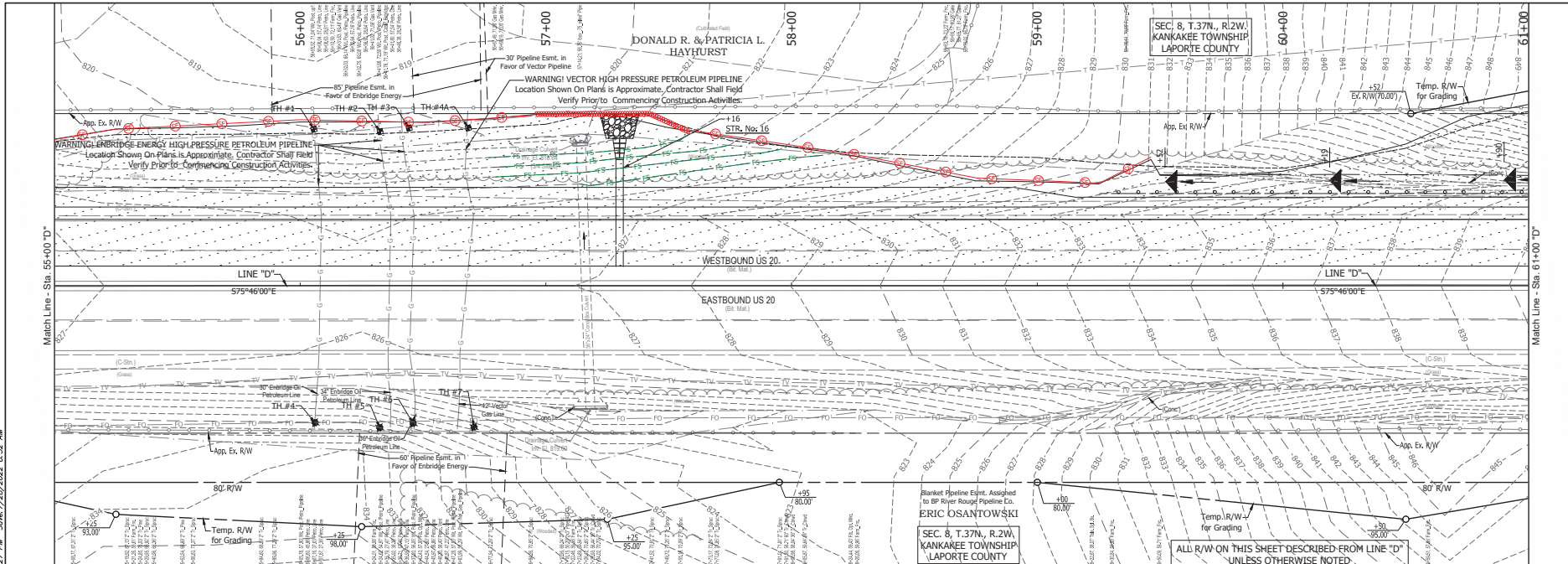


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SEC. 8, T.37N., R.2W.  
KANKAKEE TOWNSHIP  
LAPORTE COUNTY

Blanket Pipeline Emt. Assigned  
to BR River Range Pipeline Co.  
ERIC OSANTOWSKI  
SEC. 8, T.37N., R.2W.  
KANKAKEE TOWNSHIP  
LAPORTE COUNTY

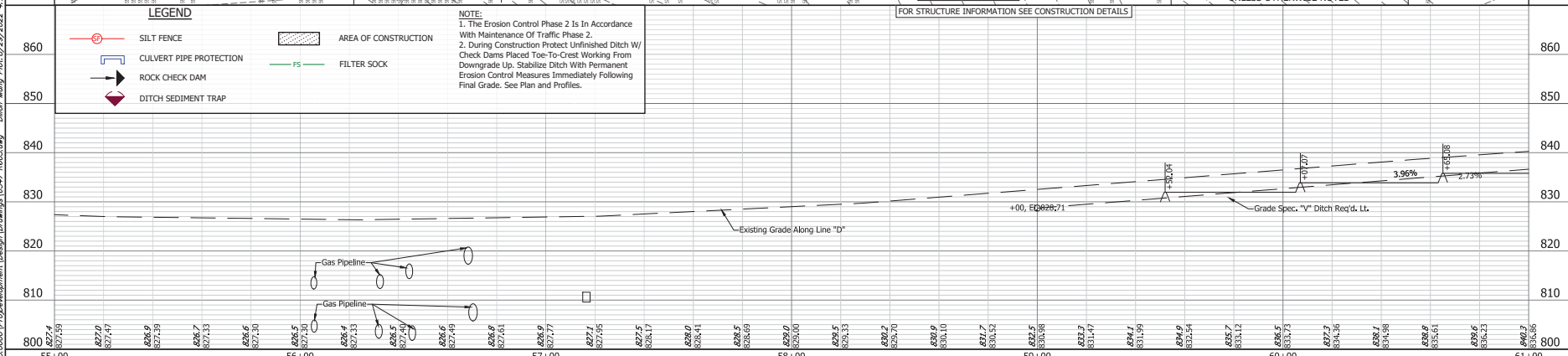
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"  
UNLESS OTHERWISE NOTED

**LEGEND**

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FILTER SOCK

**NOTE:**  
1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2  
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

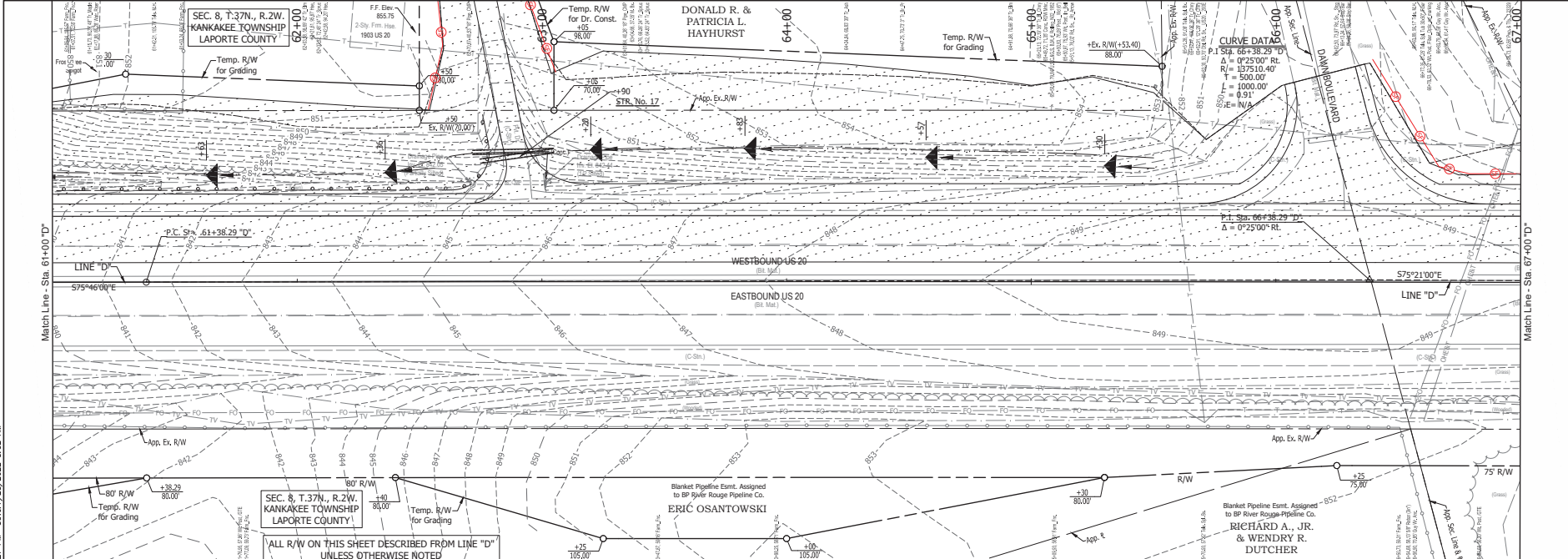
INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
EROSION CONTROL PLANS  
PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
121	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050

6547

URS NO.

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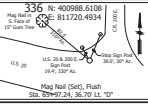
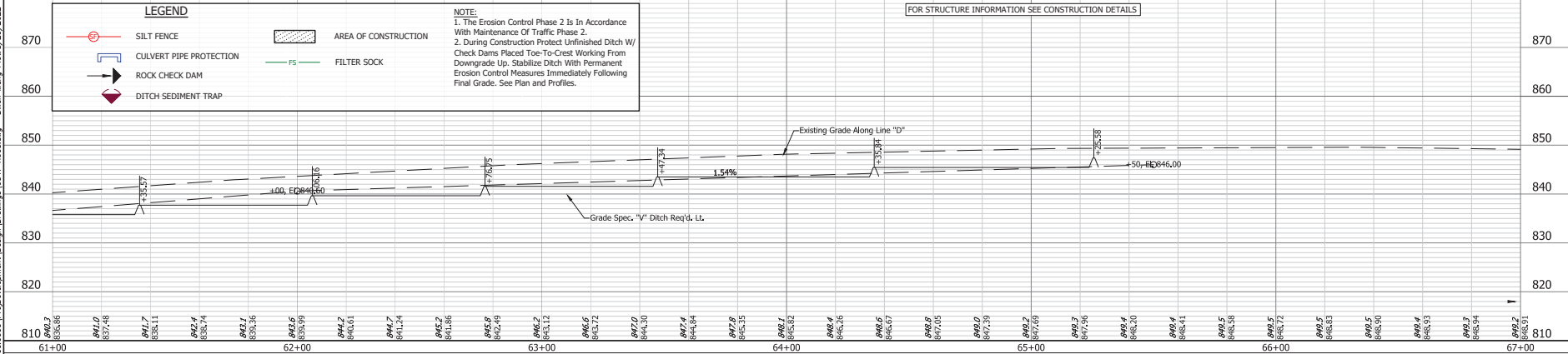
**LEGEND**

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FILTER SOCK

**NOTE:**

1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS




RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA DEPARTMENT OF TRANSPORTATION**

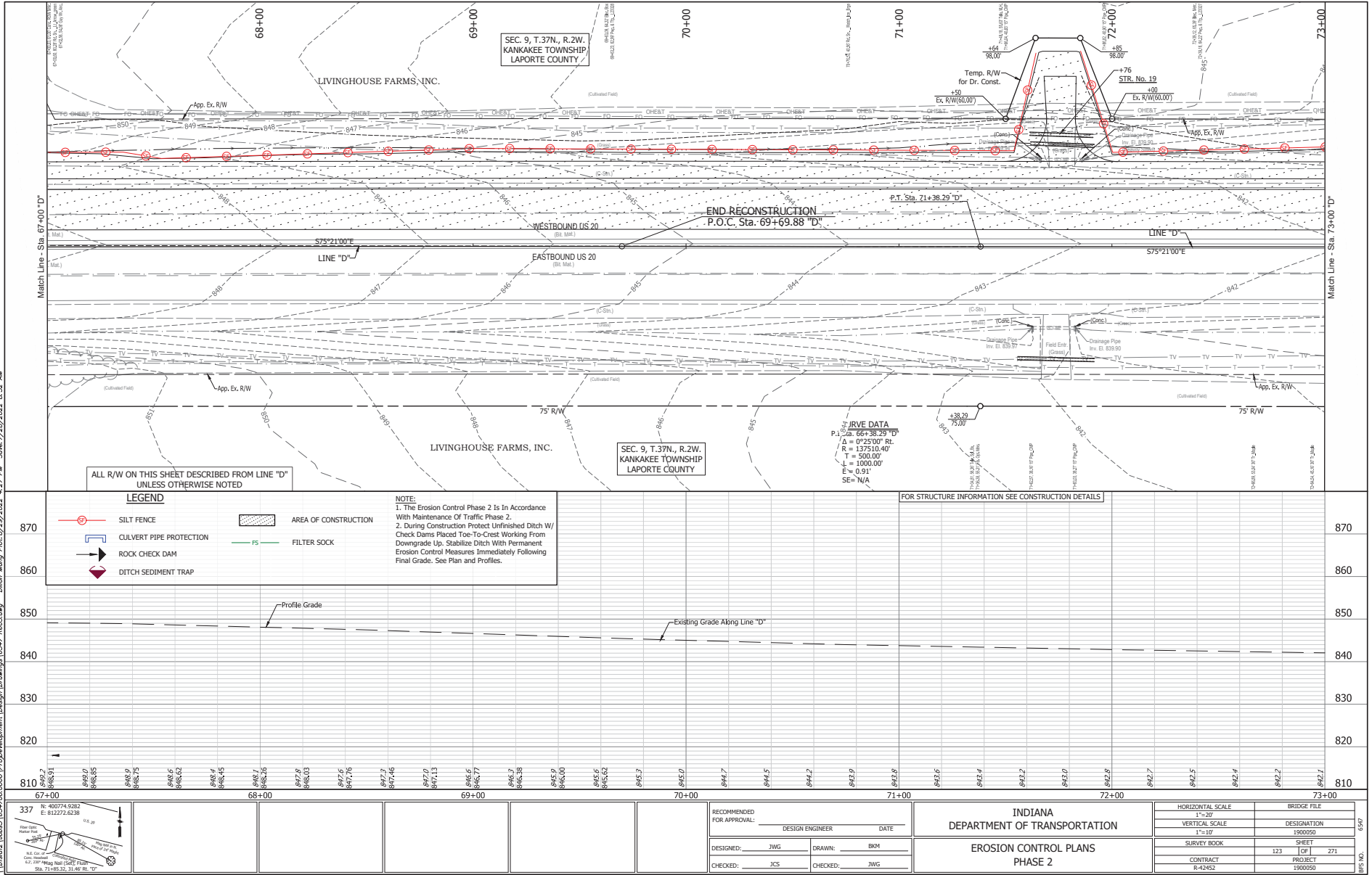
**EROSION CONTROL PLANS PHASE 2**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	17-007
VERTICAL SCALE	DESIGNATION
1" = 10'	1900050
SURVEY BOOK	SHEET
122	1 OF 1
CONTRACT	PROJECT
R-42452	1900050

6547

URS NO.

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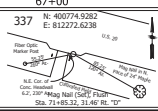
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LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

NOTE:  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

**IRVE DATA**  
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 $T = 500.00'$   
 $L = 1000.00'$   
 $E = 0.91'$   
 $SE = N/A$

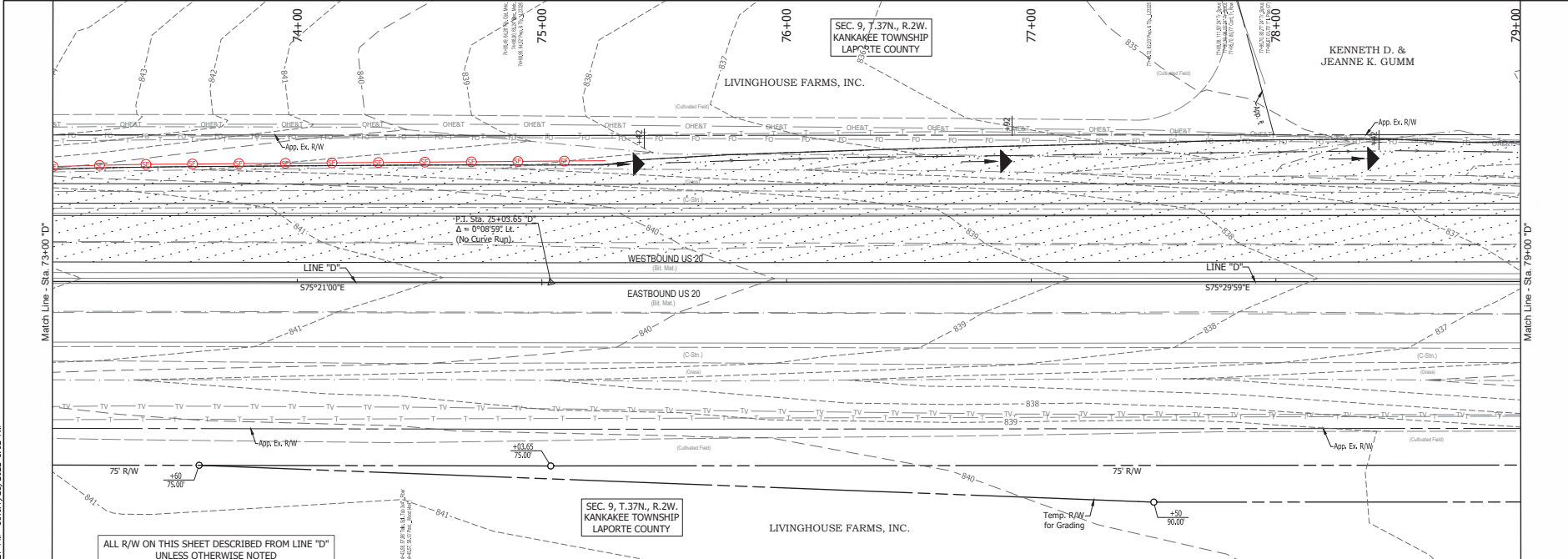


RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA**  
 DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLANS**  
 PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1900050
SURVEY BOOK	SHEET
123	271
CONTRACT	PROJECT
R-42452	1900050

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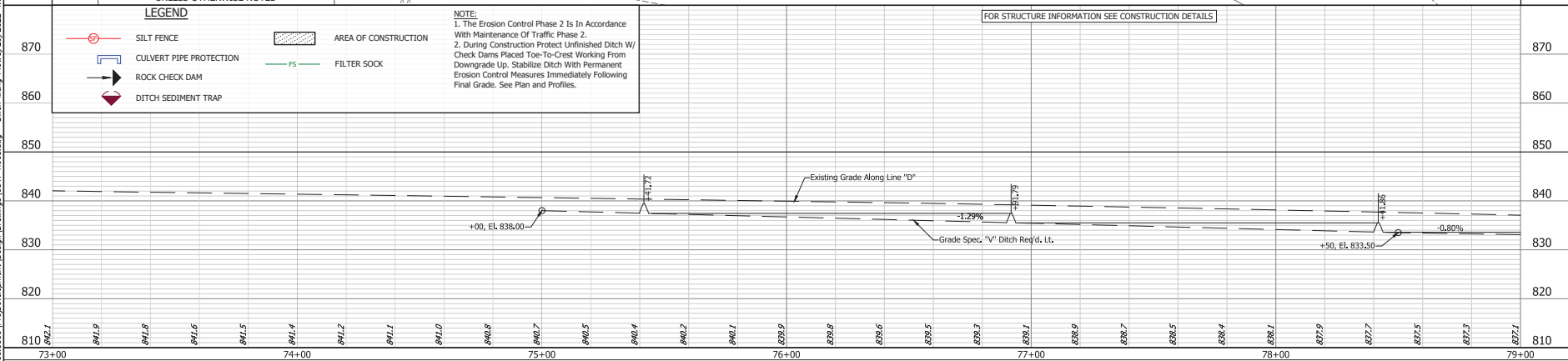
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

**LEGEND**

- SILT FENCE
- ┌—┐ CULVERT PIPE PROTECTION
- ▶—▶ ROCK CHECK DAM
- ◊— DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FS— FILTER SOCK

**NOTE:**  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
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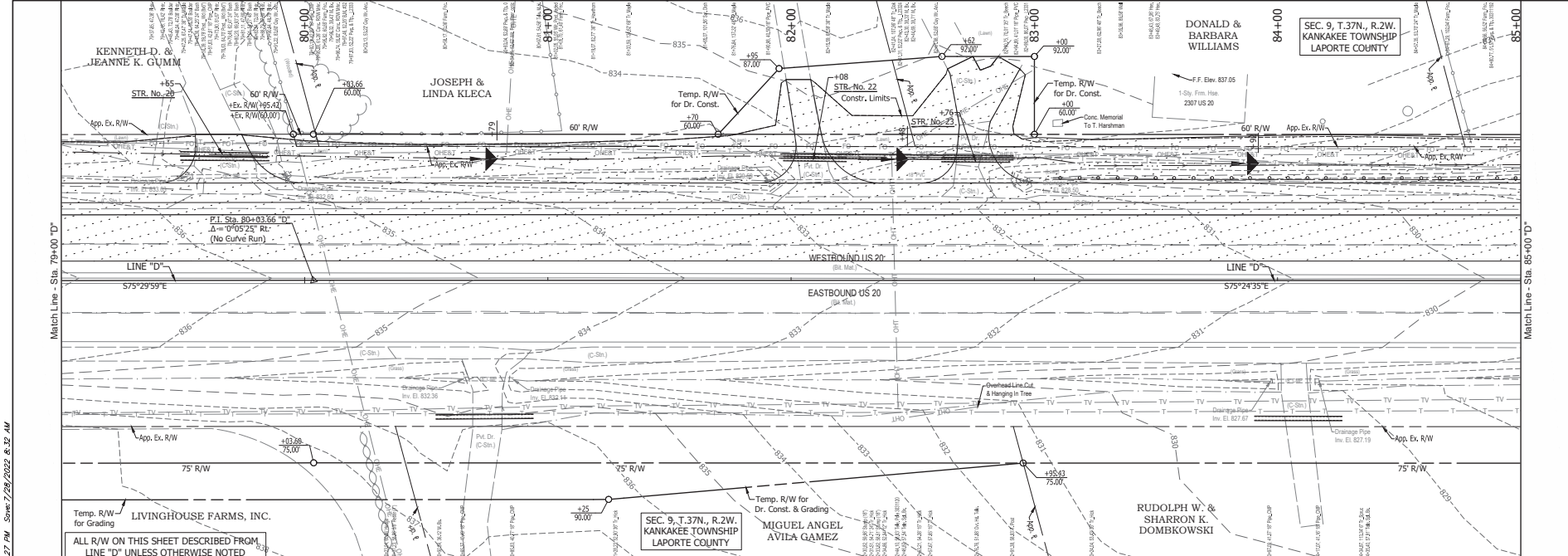
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS**  
**PHASE 2**

HORIZONTAL SCALE 1"=50'	BRIDGE FILE
VERTICAL SCALE 1"=10'	DESIGNATION 1900050
SURVEY BOOK	SHEET 124 OF 271
CONTRACT R-42452	PROJECT 1900050

6547

BPS NO.



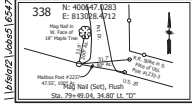
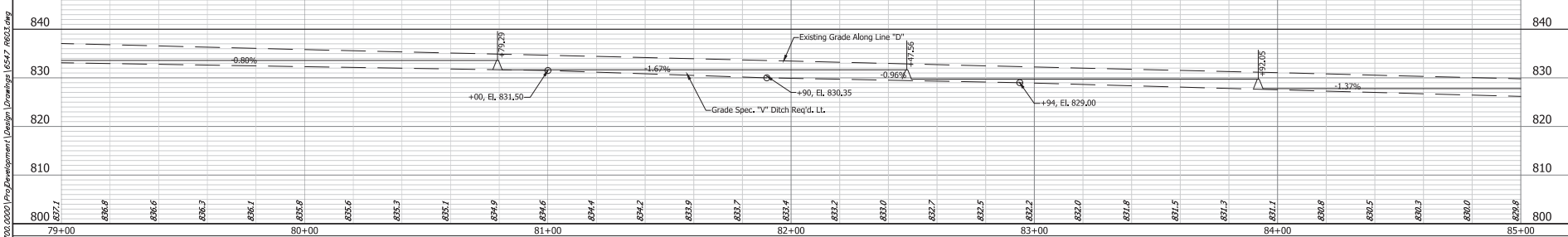
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

NOTE:  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

T.B.M. 32 - R.R. Spike Set In Util. Pole L233.3  
 Sta. 79+97.46, 52.35' Lt. "D"  
 Elev. 835.377



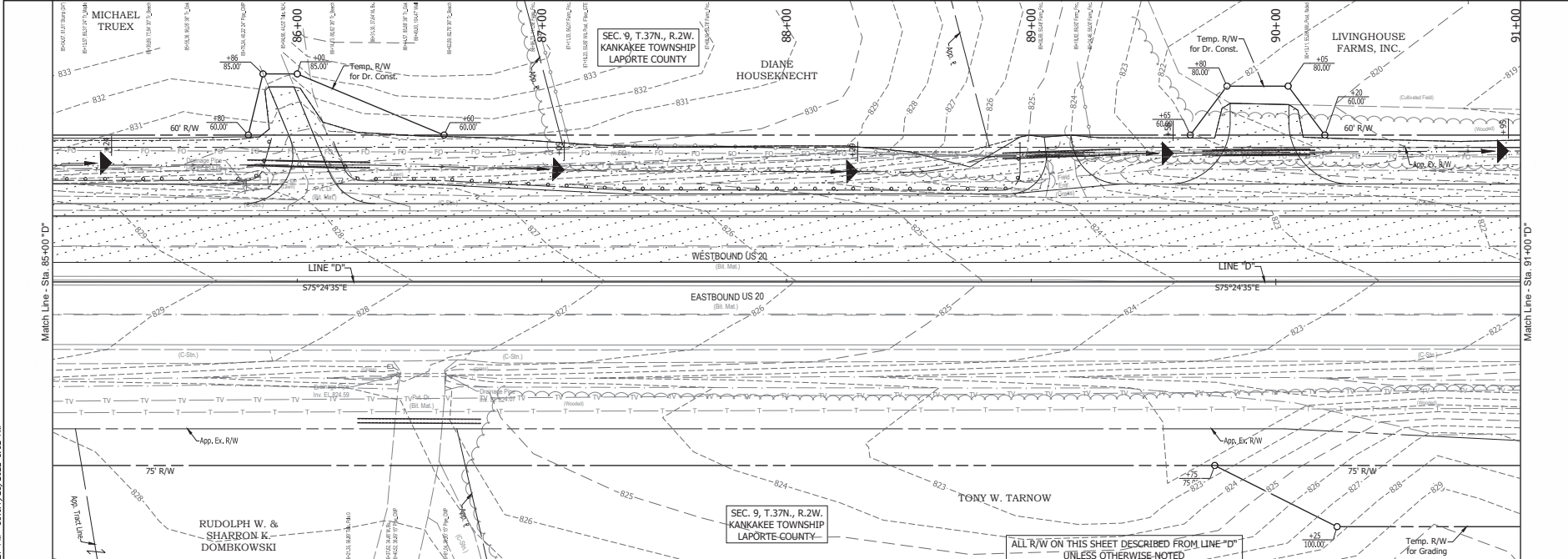
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DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
125	271
CONTRACT	PROJECT
R-42452	1900050

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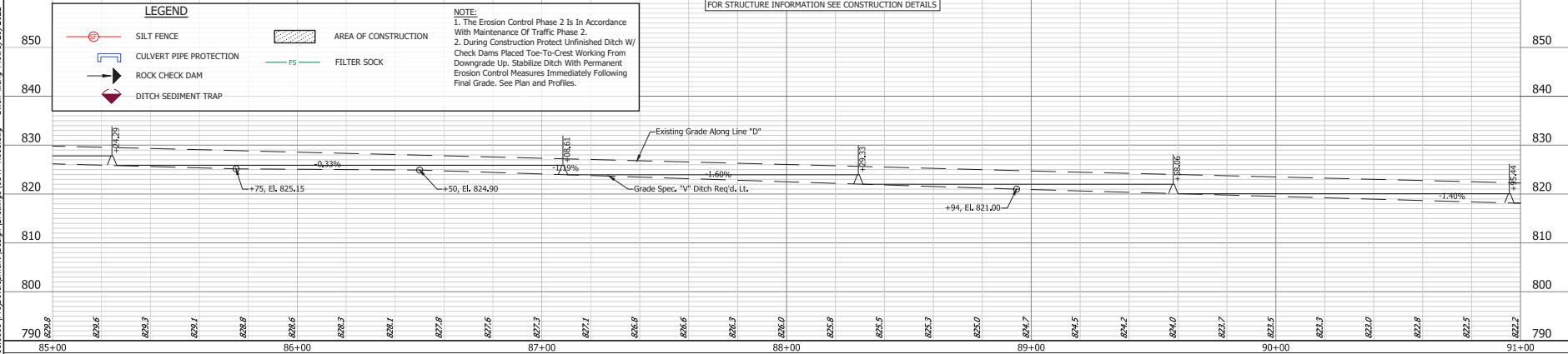
**LEGEND**

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FILTER SOCK

**NOTE:**  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED



339  
 N: 46232.1514  
 E: 813632.5299  
 40.07, 109.41  
 100' = 1" (100' = 1")  
 100' = 1" (100' = 1")  
 100' = 1" (100' = 1")  
 100' = 1" (100' = 1")

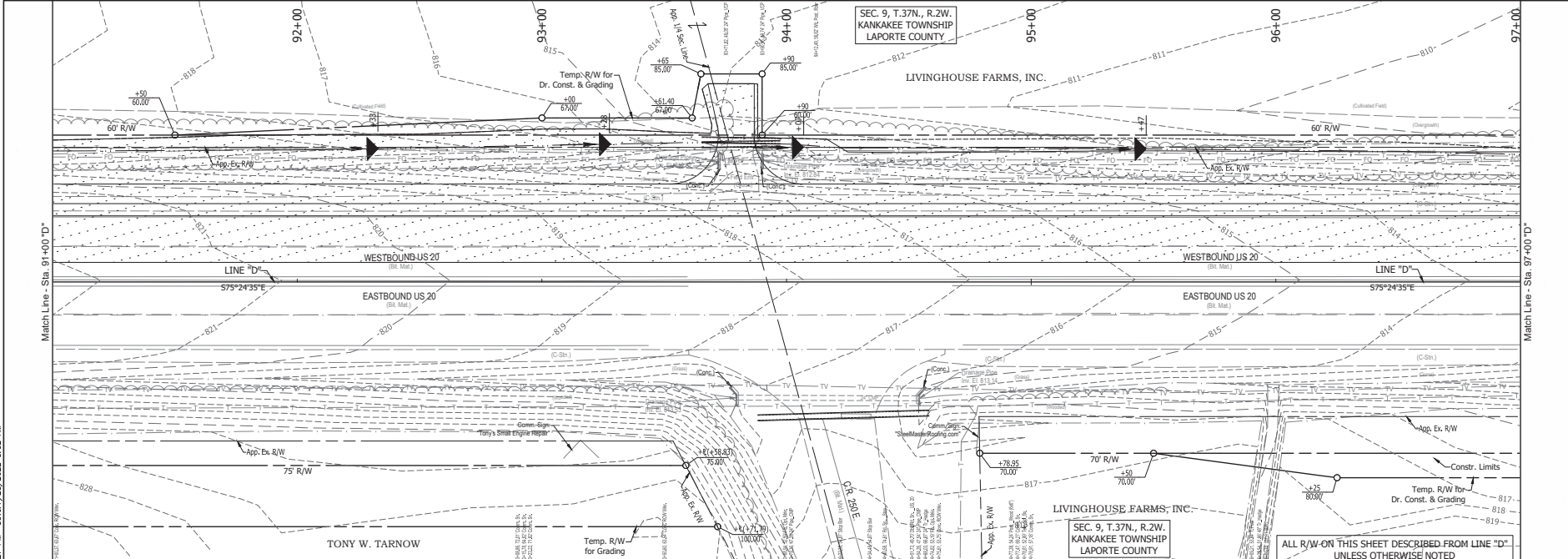
RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS PHASE 2**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	DESIGNATION
VERTICAL SCALE	1900050
1" = 10'	
SURVEY BOOK	SHEET
126	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050

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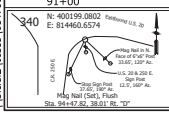
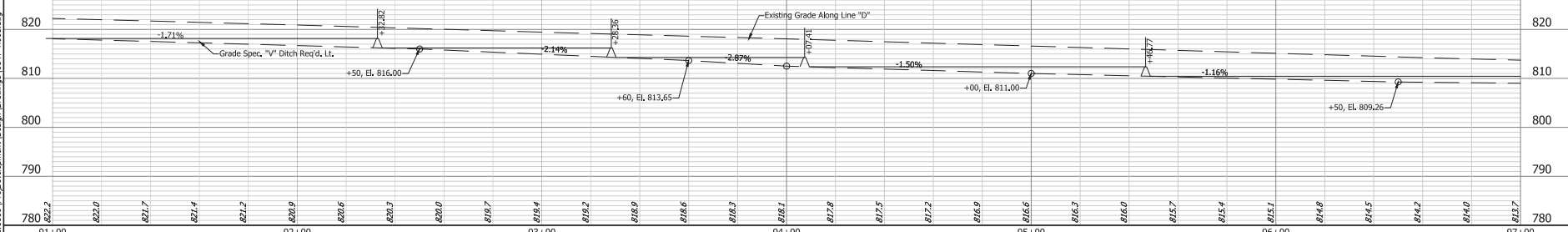
**LEGEND**

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FILTER SOCK

**NOTE:**  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

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RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
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CHECKED: JCS	CHECKED: JWG		

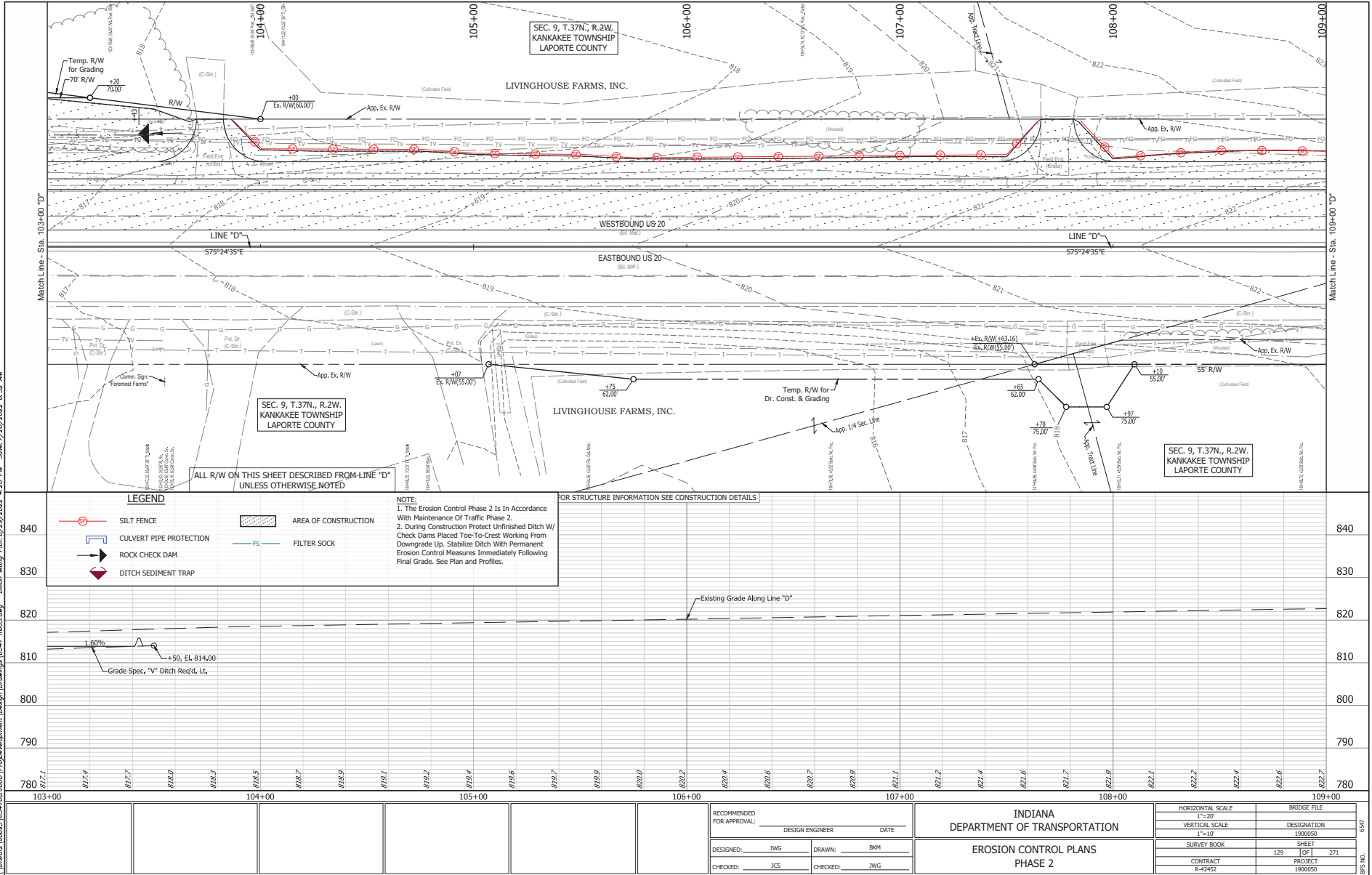
**INDIANA**  
 DEPARTMENT OF TRANSPORTATION  
  
 EROSION CONTROL PLANS  
 PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
127	271
CONTRACT	PROJECT
R-42452	1900050





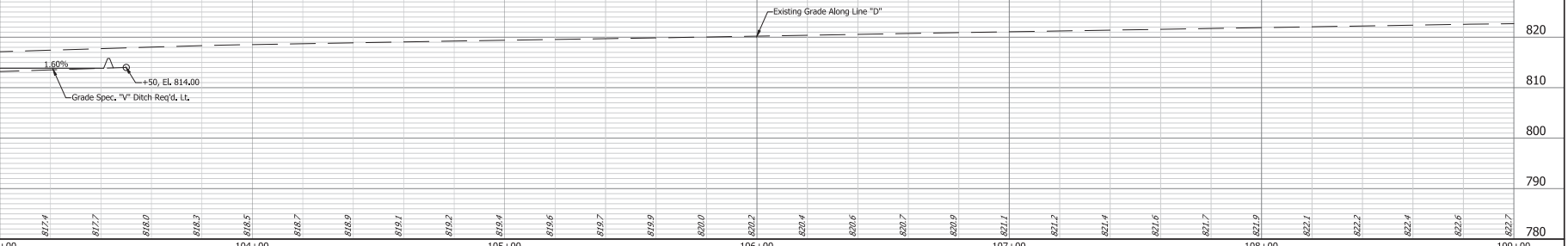
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LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

NOTE:  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

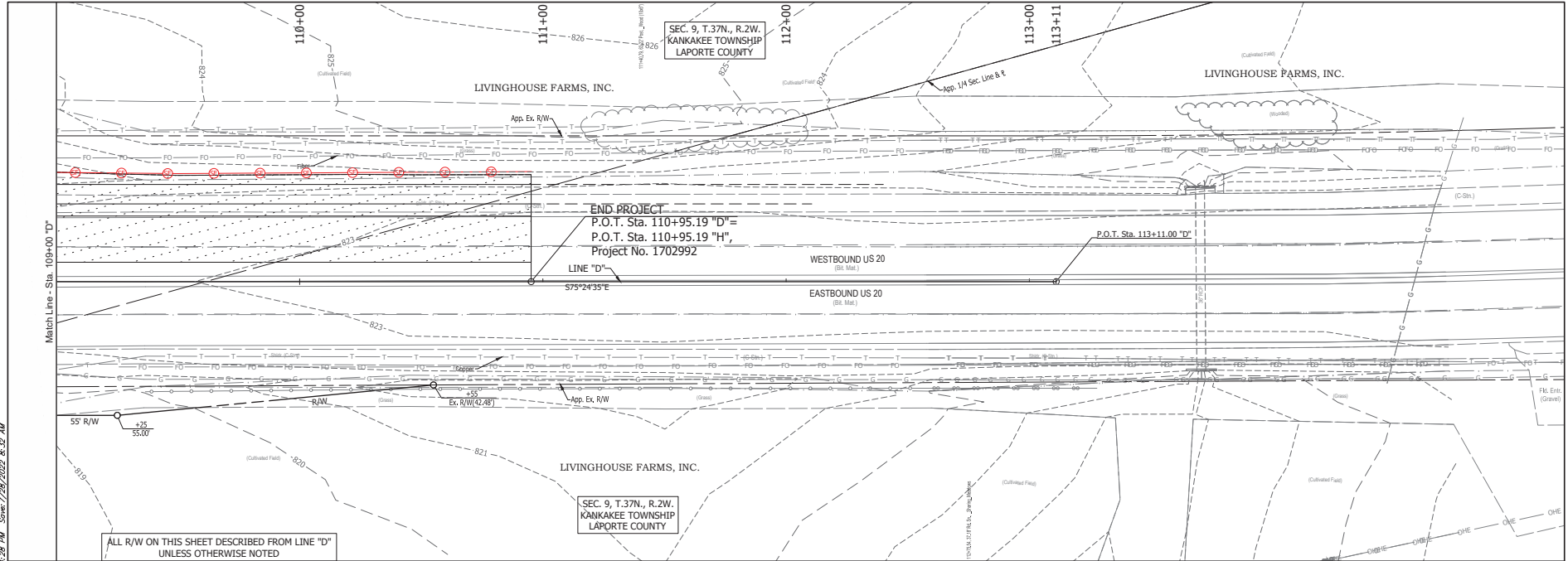
FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

INDIANA DEPARTMENT OF TRANSPORTATION	
EROSION CONTROL PLANS PHASE 2	

HORIZONTAL SCALE 1"=50'	BRIDGE FILE
VERTICAL SCALE 1"=10'	DESIGNATION 1900050
SURVEY BOOK 129	SHEET 1 OF 1 271
CONTRACT R-42452	PROJECT 1900050

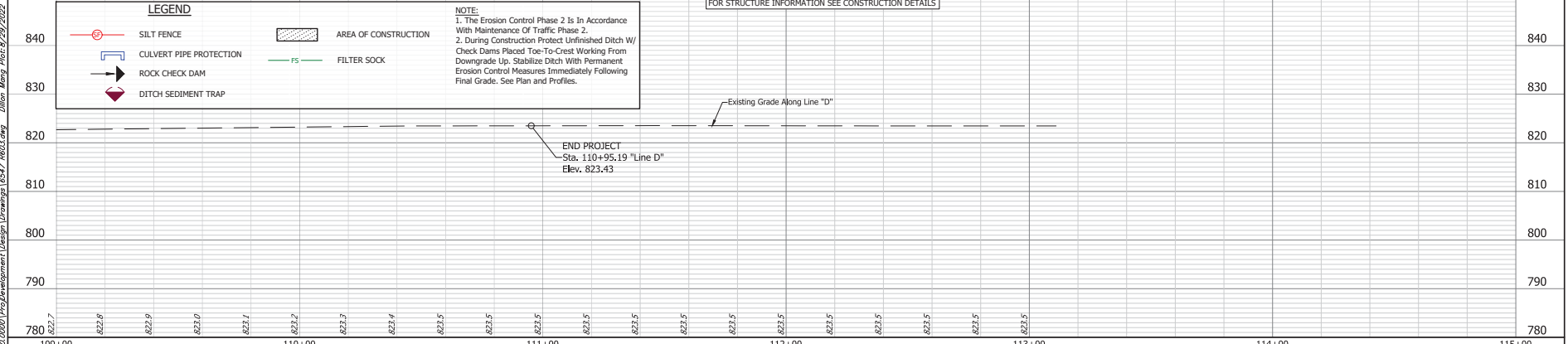


ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

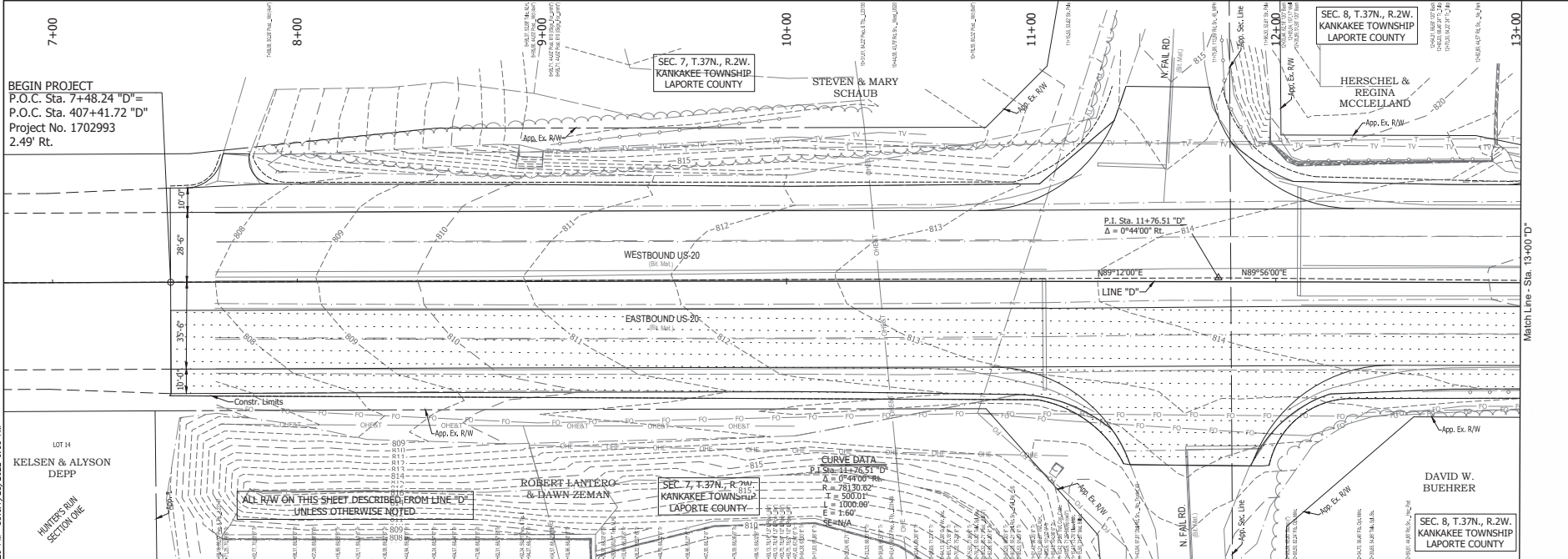
NOTE:  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



 1" = 40' Horizontal Scale 1" = 10' Vertical Scale	342 N: 399870.7365 E: 816071.3065 100' Radius of Bend (Cap) Flush SEE PLAN AND PROFILE	RECOMMENDED FOR APPROVAL: DESIGN ENGINEER: _____ DATE: _____ DESIGNED: JWG DRAWN: BKM CHECKED: JCS CHECKED: JWG	INDIANA DEPARTMENT OF TRANSPORTATION  EROSION CONTROL PLANS PHASE 2	HORIZONTAL SCALE 1"=40'	BRIDGE FILE DESIGNATION 1900050
				SURVEY BOOK 130	SHEET 1 OF 1 271
		CONTRACT R-42452	PROJECT 1900050		

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BEGIN PROJECT  
 P.O.C. Sta. 7+48.24 "D" =  
 P.O.C. Sta. 407+41.72 "D"  
 Project No. 1702993  
 2.49' Rt.

SEC. 7, T.37N., R.2W.  
 KANKAKEE TOWNSHIP  
 LAPORTE COUNTY

SEC. 8, T.37N., R.2W.  
 KANKAKEE TOWNSHIP  
 LAPORTE COUNTY

HERSCHEL &  
 REGINA  
 MCCLELLAND

DAVID W.  
 BUEHRER

SEC. 8, T.37N., R.2W.  
 KANKAKEE TOWNSHIP  
 LAPORTE COUNTY

CURVE DATA  
 P.I. Sta. 11+76.51 "D"  
 Δ = 0°44'00" RL  
 R = 6744.08 RL  
 T = 781.30 82'  
 L = 500.01'  
 E = 1000.00'  
 F = 1.60'

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"  
 UNLESS OTHERWISE NOTED

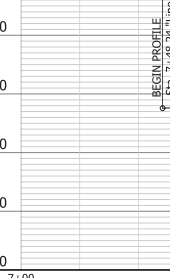
NOTE:  
 1. The Erosion Control Phase 2 Is In Accordance  
 With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/  
 Check Dams Placed Toe-To-Crest Working From  
 Downgrade Up. Stabilize Ditch With Permanent  
 Erosion Control Measures Immediately Following  
 Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

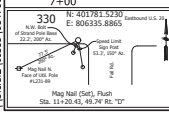
T.B.M. 30 - Bolt on Traf. Supp. Pole,  
 S.W. Quad. U.S. 20 & Fall Rd,  
 Sta. 11+15.98, 71.92' Rt. "D"  
 Elev. 811.268'

LEGEND

- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- FILTER SOCK



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330 N. 11th St. Laporte, IN 46343	7+00	8+00	9+00	10+00	11+00	12+00	13+00
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RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM	
CHECKED: JCS	CHECKED: JWG	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

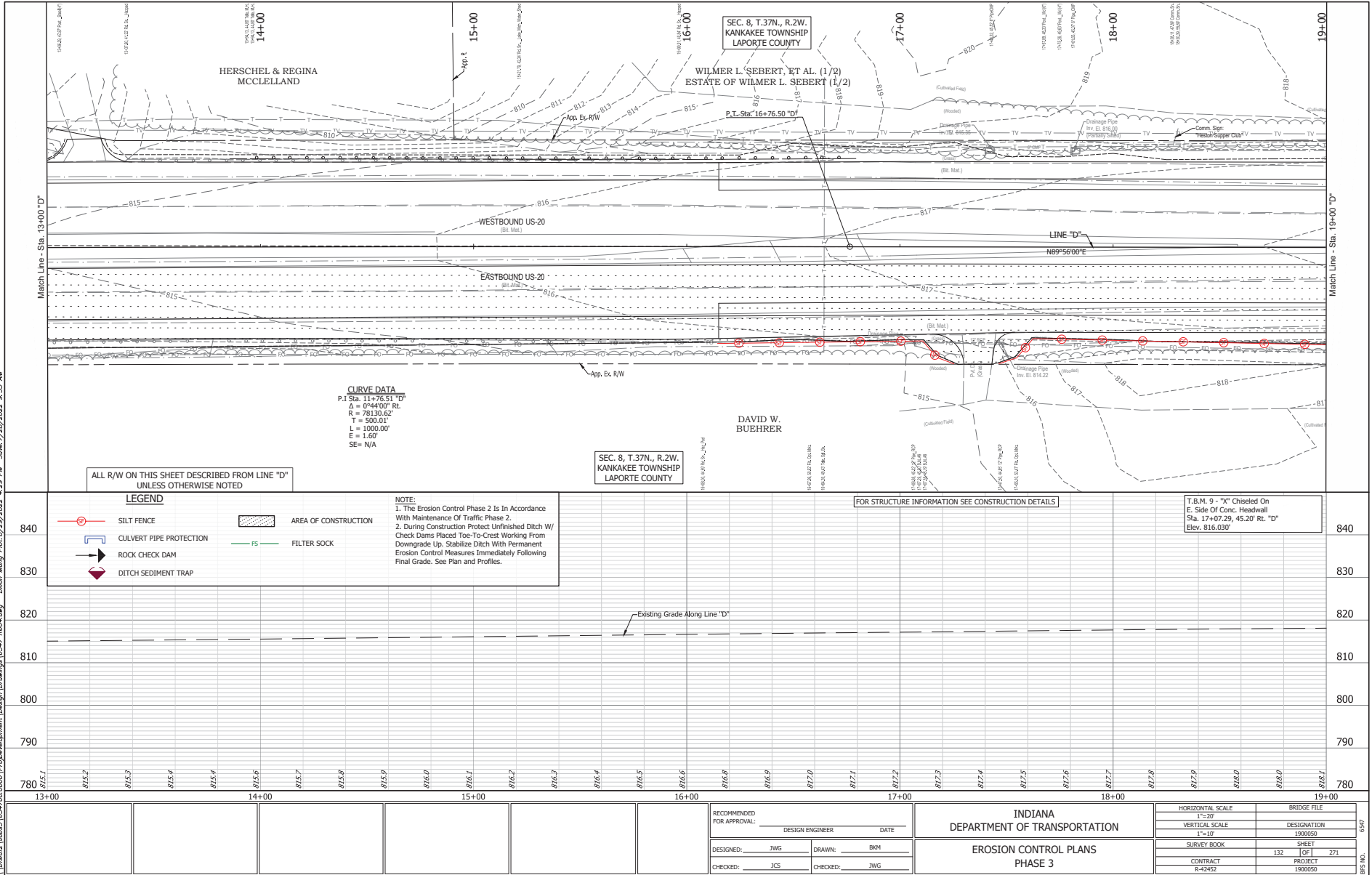
HORIZONTAL SCALE	BRIDGE FILE
1"=20'	17-007
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
131	108   271
CONTRACT	PROJECT
R-42452	1900050

Match Line - Sta. 13+00 "D"

6547

SHEET NO.

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**CURVE DATA**  
 P.I. Sta. 11+76.51 "D"  
 $\Delta = 0^{\circ}44'00"$  RL  
 $R = 781.30'62"$   
 $T = 500.01'$   
 $L = 1000.00'$   
 $E = 1.60'$   
 $SE = N/A$

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D"  
 UNLESS OTHERWISE NOTED

LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

**NOTE:**  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

T.B.M. 9 - "X" Chiseled On E. Side Of Conc. Headwall Sta. 17+07.29, 45.20' Rt. "D" Elev. 816.03'

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM	
CHECKED: JCS	CHECKED: JWG	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

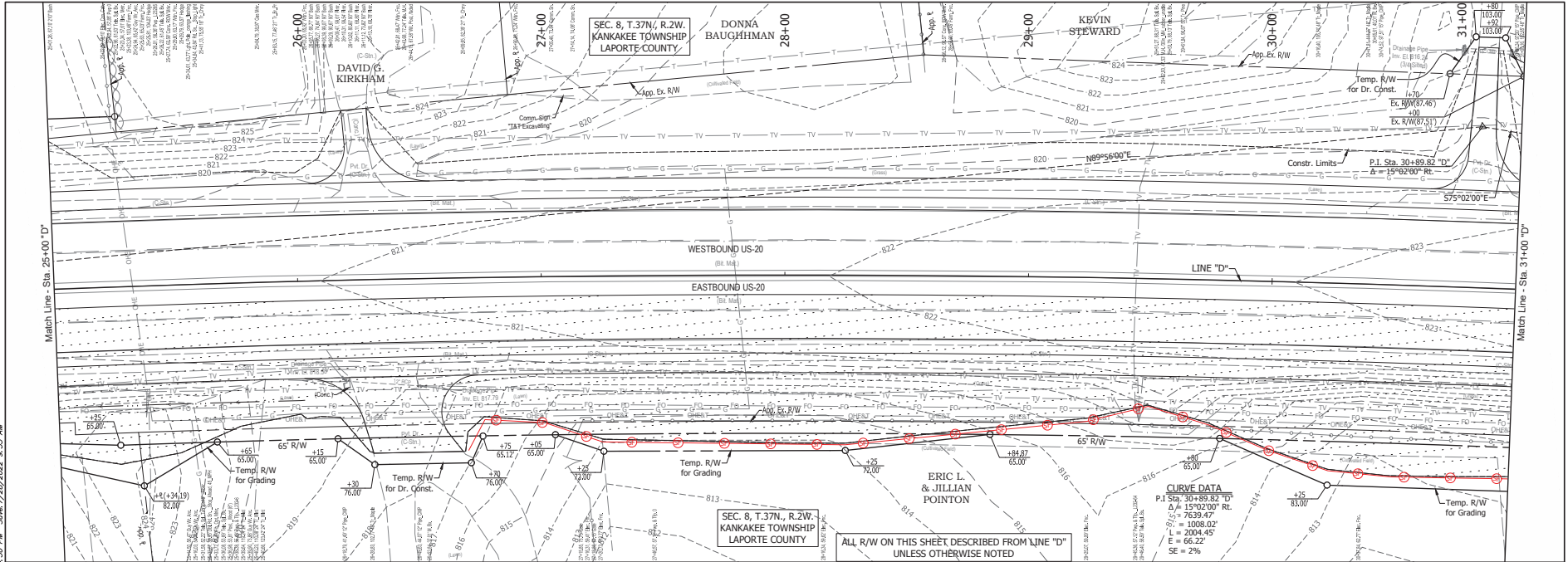
HORIZONTAL SCALE	BRIDGE FILE
1"=50'	DESIGNATION
VERTICAL SCALE	1900050
1"=10'	
SURVEY BOOK	SHEET
132	1 OF 1
CONTRACT	PROJECT
R-42452	1900050

6547

URS NO.



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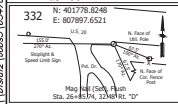
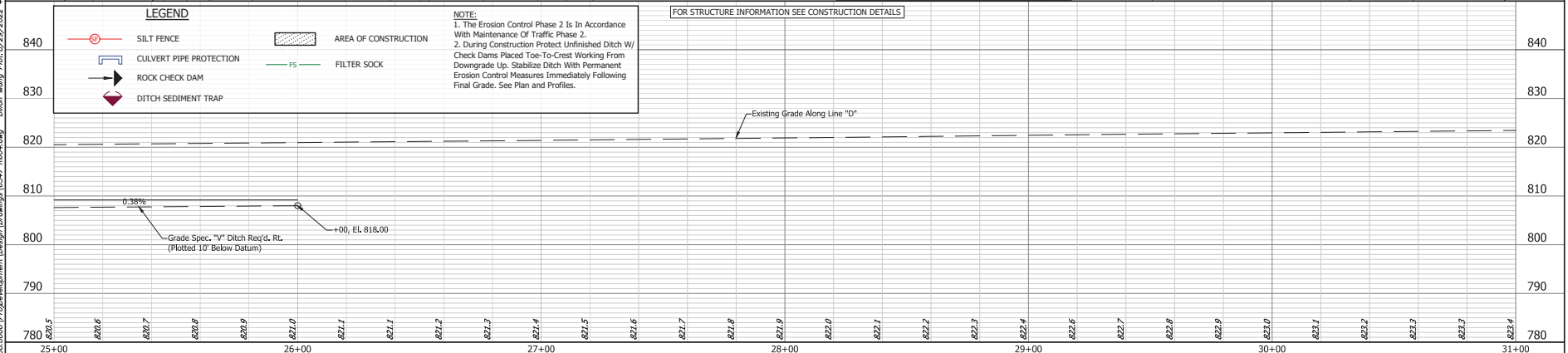


LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

**NOTE:**  
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 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

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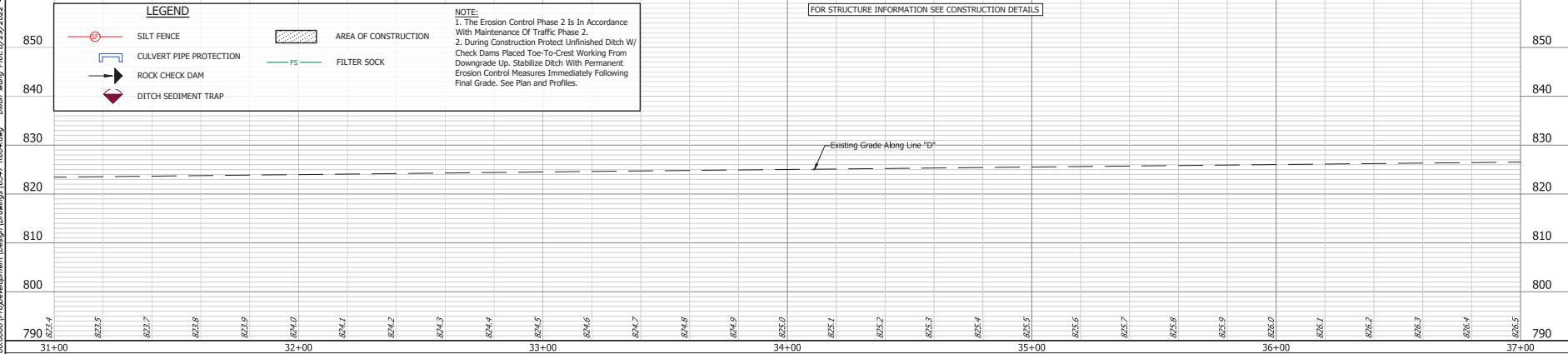
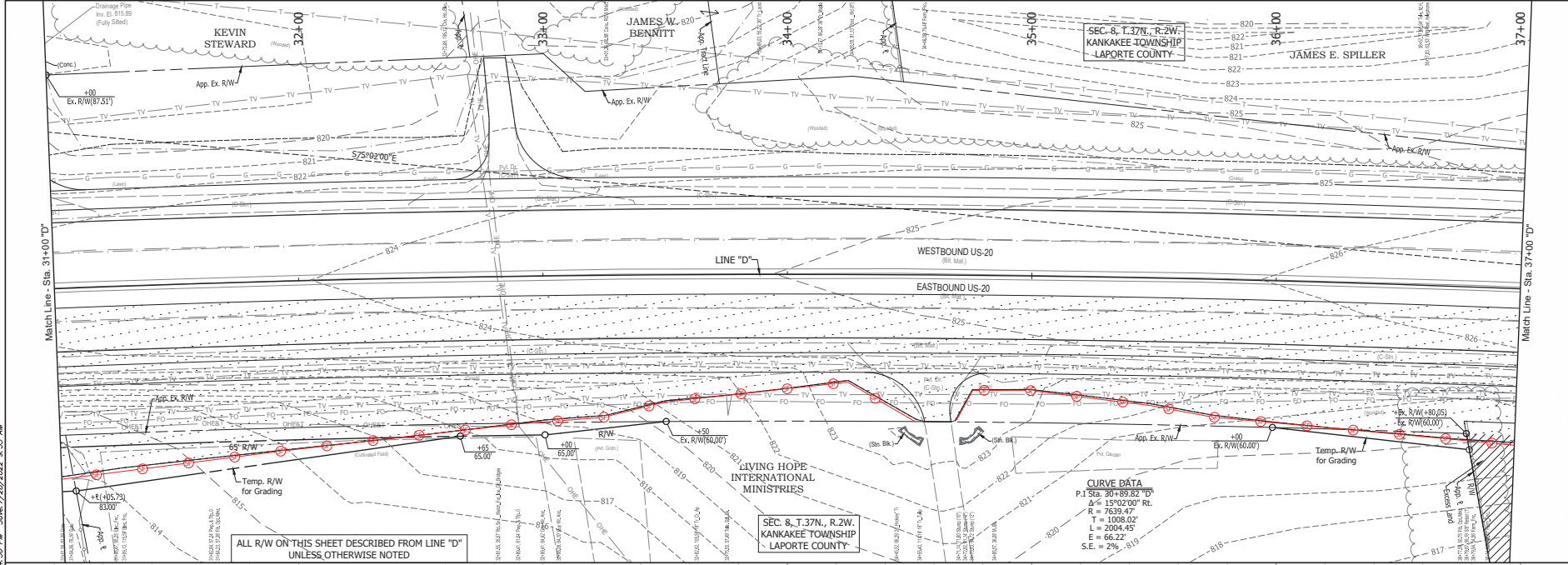
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CHECKED: JCS	CHECKED: JWG

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
INDIANA DEPARTMENT OF TRANSPORTATION		
EROSION CONTROL PLANS PHASE 3		

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	17-007
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
134	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050

6547

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**LEGEND**

	SILT FENCE		AREA OF CONSTRUCTION
	CULVERT PIPE PROTECTION		FILTER SOCK
	ROCK CHECK DAM		
	DITCH SEDIMENT TRAP		

**NOTE:**  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA DEPARTMENT OF TRANSPORTATION**

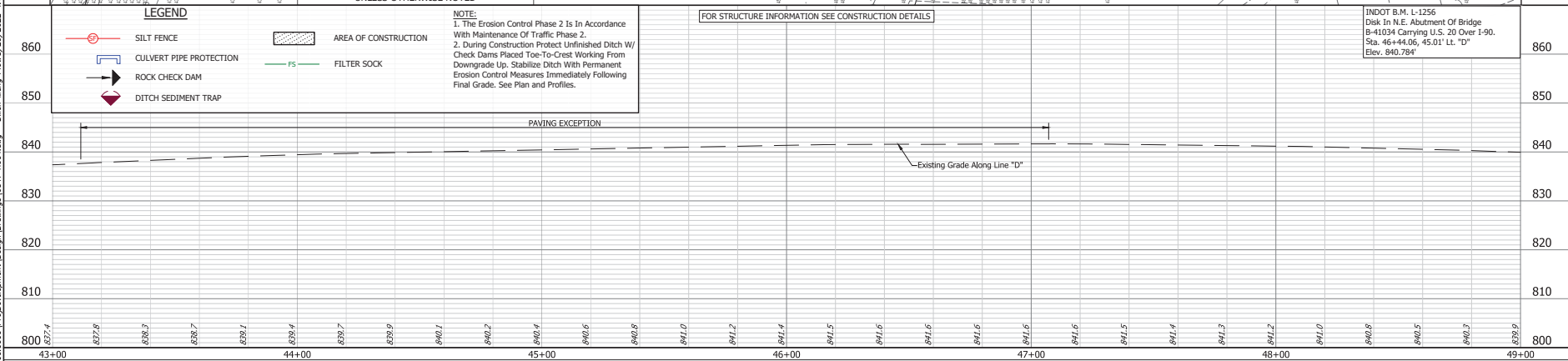
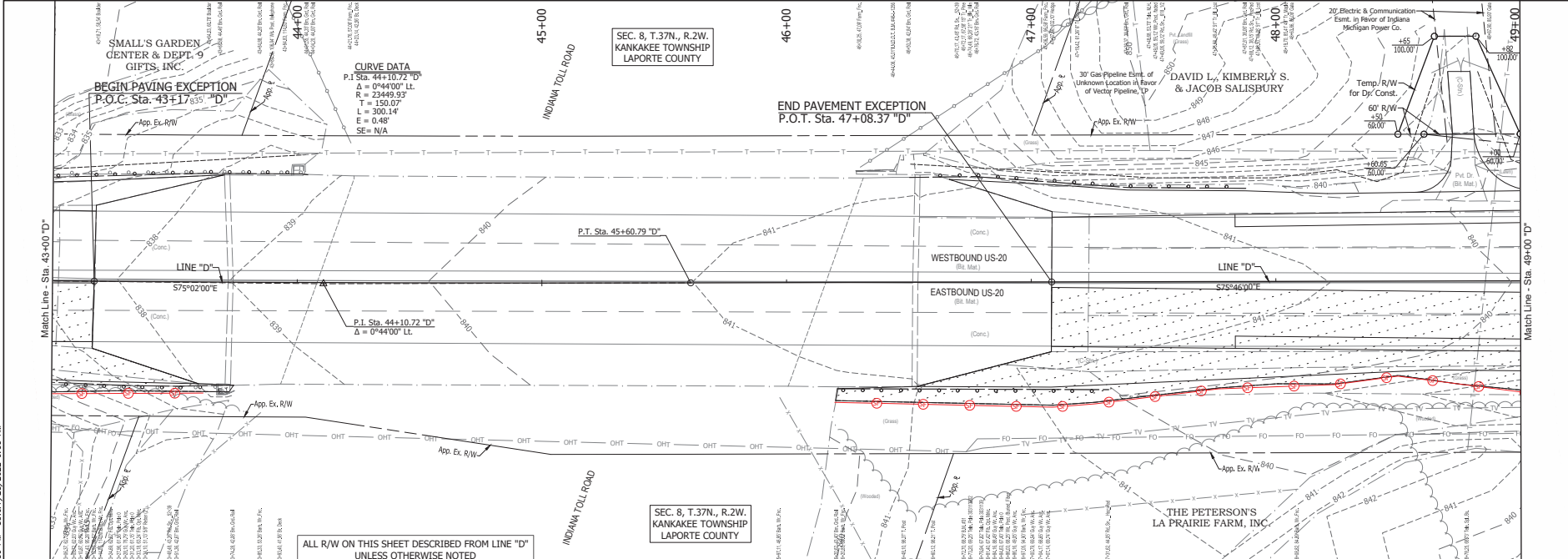
**EROSION CONTROL PLANS PHASE 3**

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
135	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050





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LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FS FILTER SOCK

**NOTE:**  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

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DESIGNED: JWG	DRAWN: BKM
CHECKED: JCS	CHECKED: JWG

RECOMMENDED FOR APPROVAL:  
 DESIGN ENGINEER DATE  
 INDIANA DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

HORIZONTAL SCALE 1"=50'	BRIDGE FILE
VERTICAL SCALE 1"=10'	DESIGNATION 1900050
SURVEY BOOK 137	SHEET 1 OF 1 271
CONTRACT R-42452	PROJECT 1900050

6547

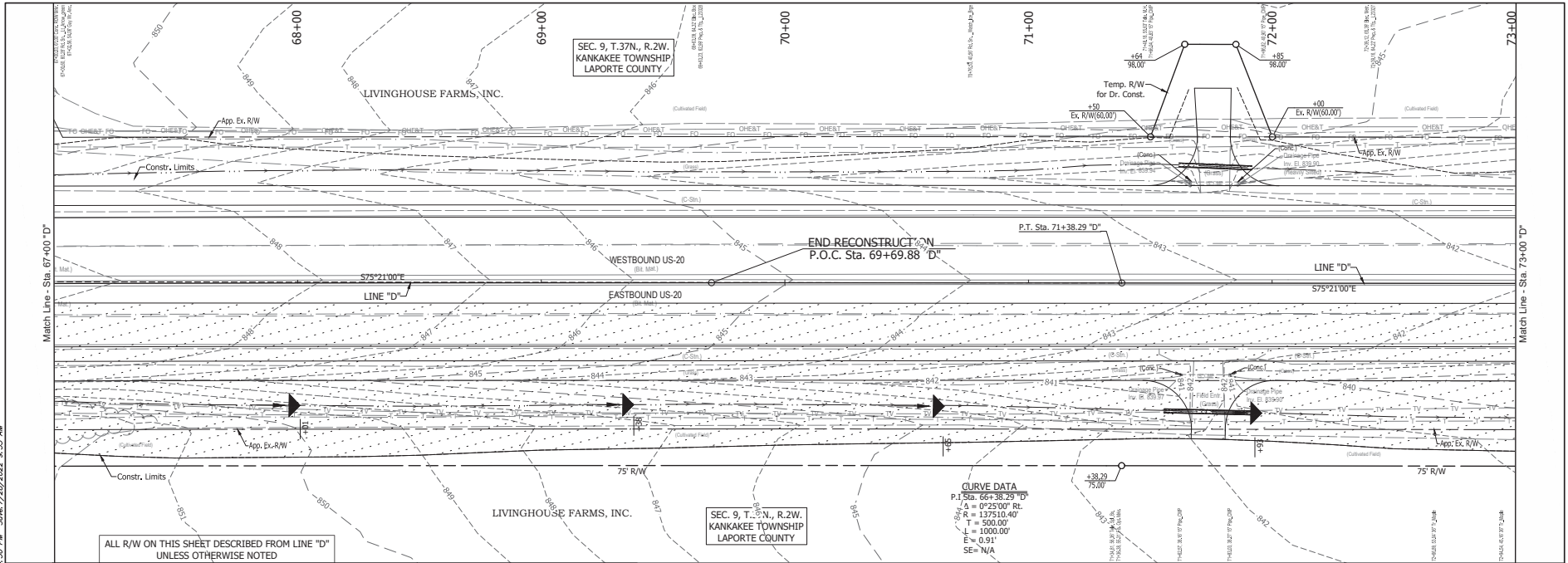
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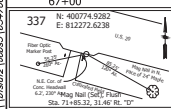
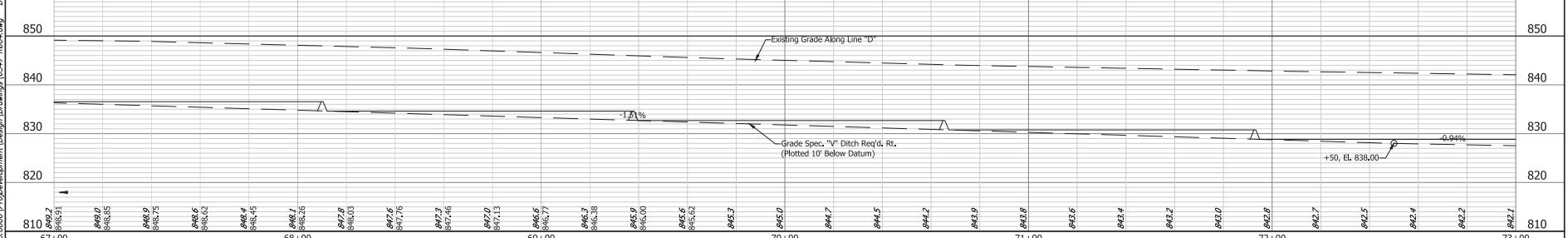
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

**CURVE DATA**  
 P.I. Sta. 66+38.29 "D"  
 Δ = 0°25'00" RT  
 R = 1375.10.40'  
 T = 500.00'  
 L = 1000.00'  
 E = 0.91'  
 SE = N/A

LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FS FILTER SOCK

**NOTE:**  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

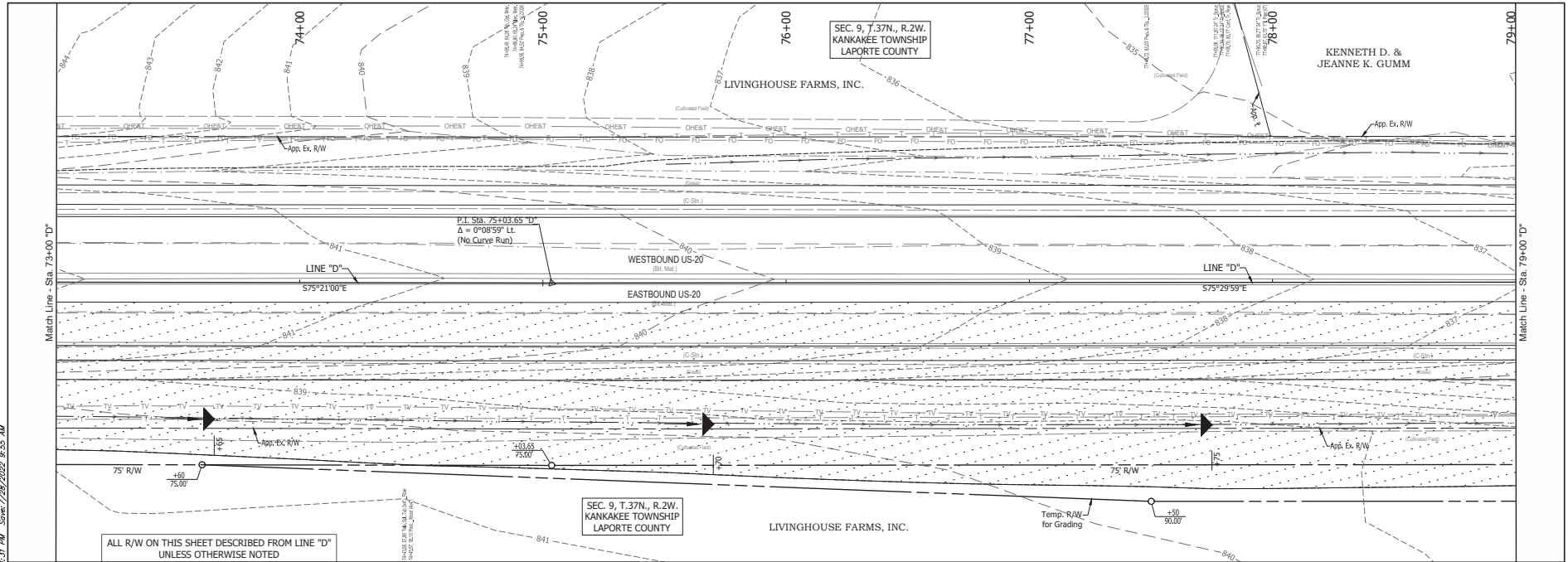


RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA**  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1900050
SURVEY BOOK	SHEET
141	271
CONTRACT	PROJECT
R-42452	1900050

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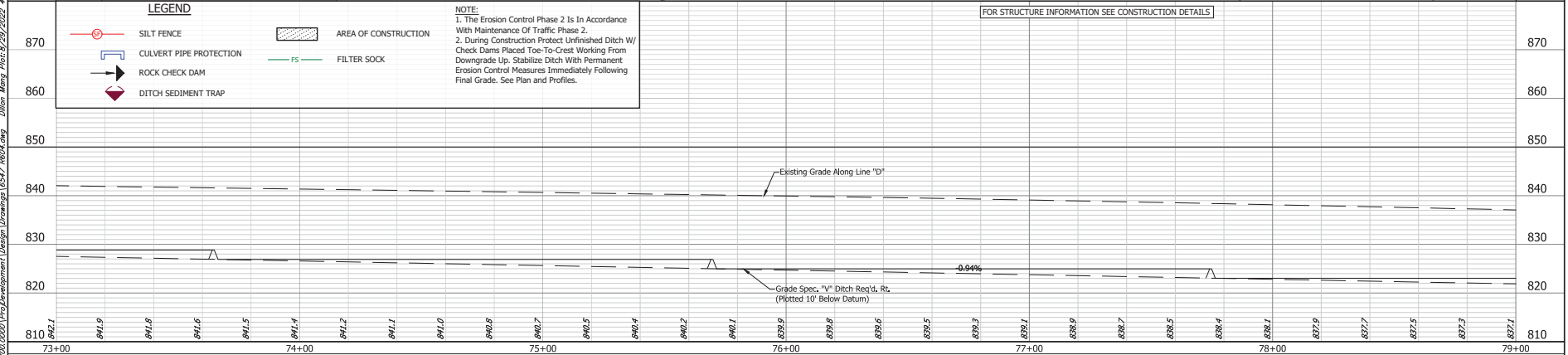


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LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

NOTE:  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

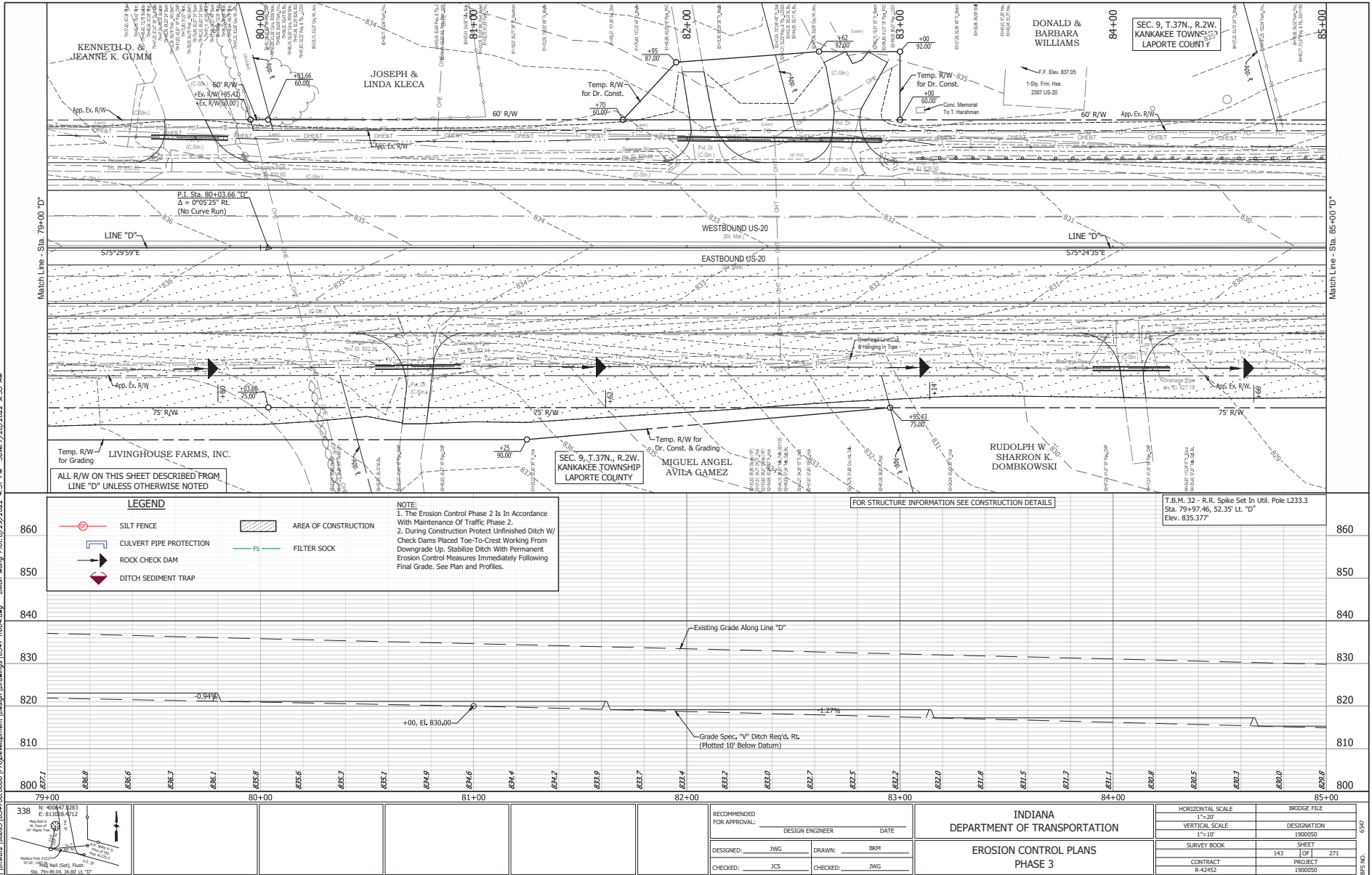


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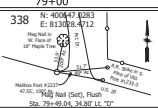
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LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

T.B.M. 32 - R.R. Spike Set In Util. Pole L233.3  
 Sta. 79+97.46, 52.35' Lt. "D"  
 Elev. 835.377



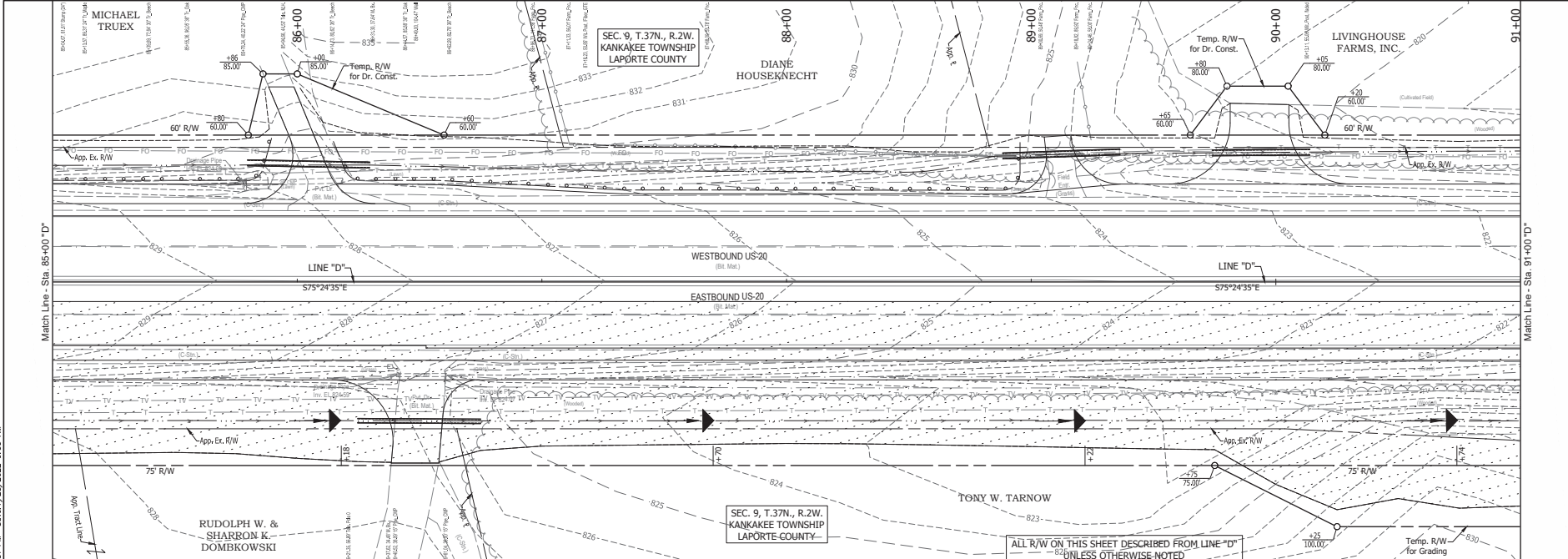
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DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA**  
 DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLANS  
 PHASE 3**

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
143	271
CONTRACT	PROJECT
R-42452	1900050

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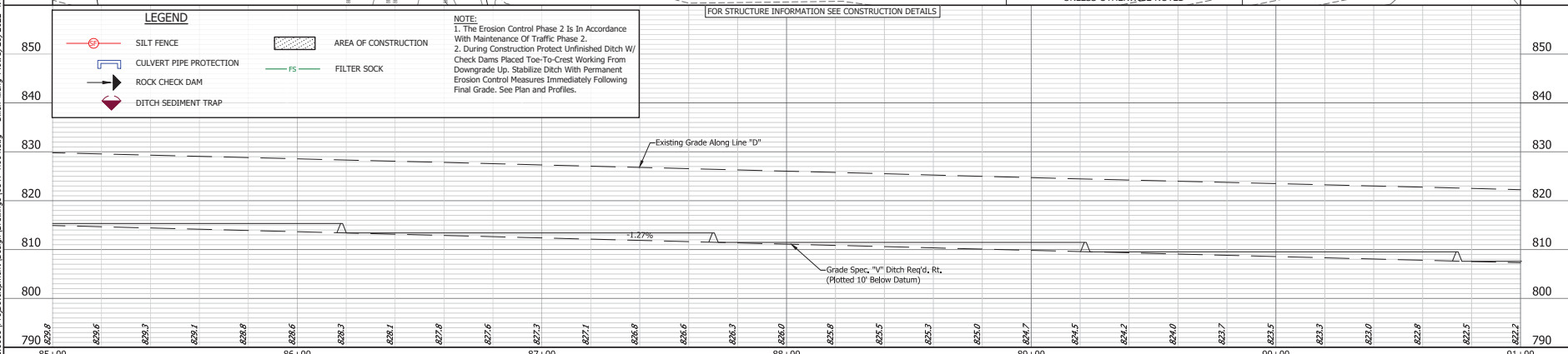


LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

**NOTE:**  
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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

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339  
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 E: 813632.22297  
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 40.37, 107.42

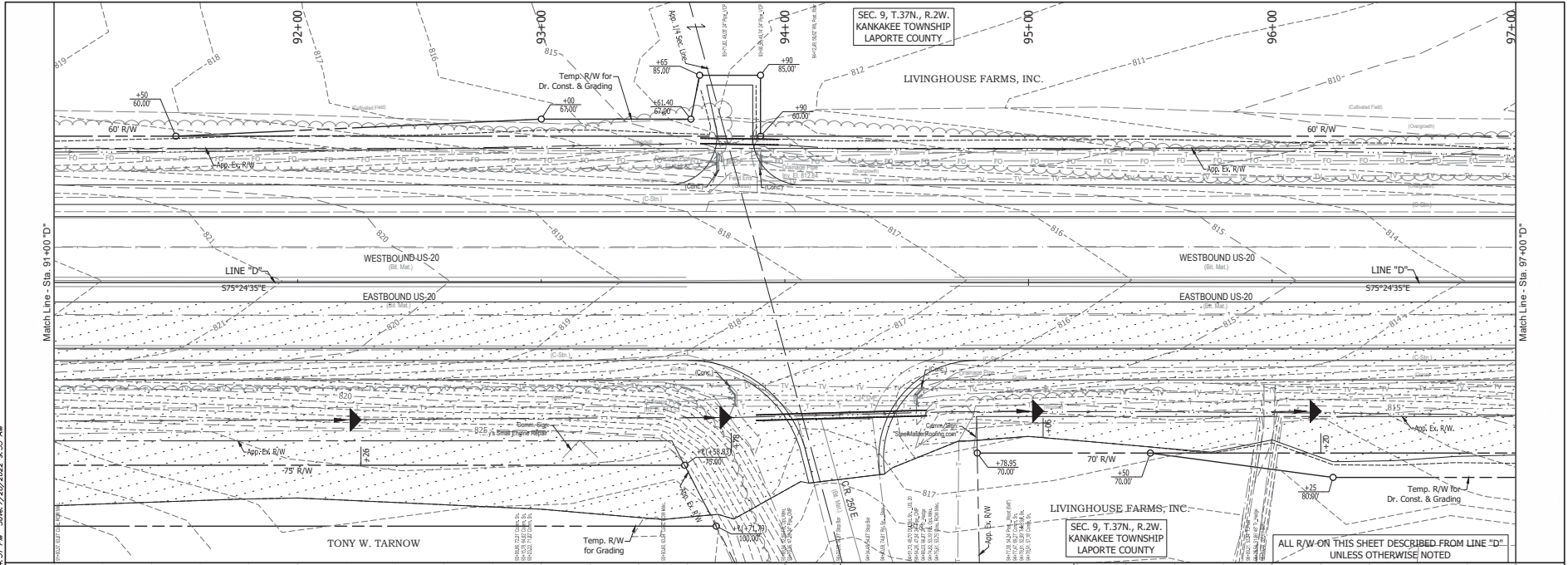
RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	DESIGNATION
VERTICAL SCALE	1900050
1"=10'	
SURVEY BOOK	SHEET
144	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050



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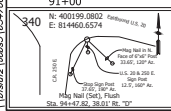
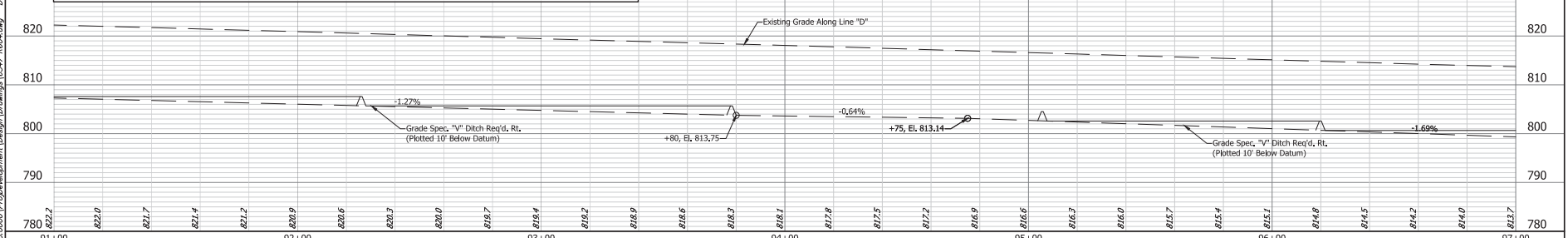


**LEGEND**

	SILT FENCE		AREA OF CONSTRUCTION
	CULVERT PIPE PROTECTION		FILTER SOCK
	ROCK CHECK DAM		
	DITCH SEDIMENT TRAP		

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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



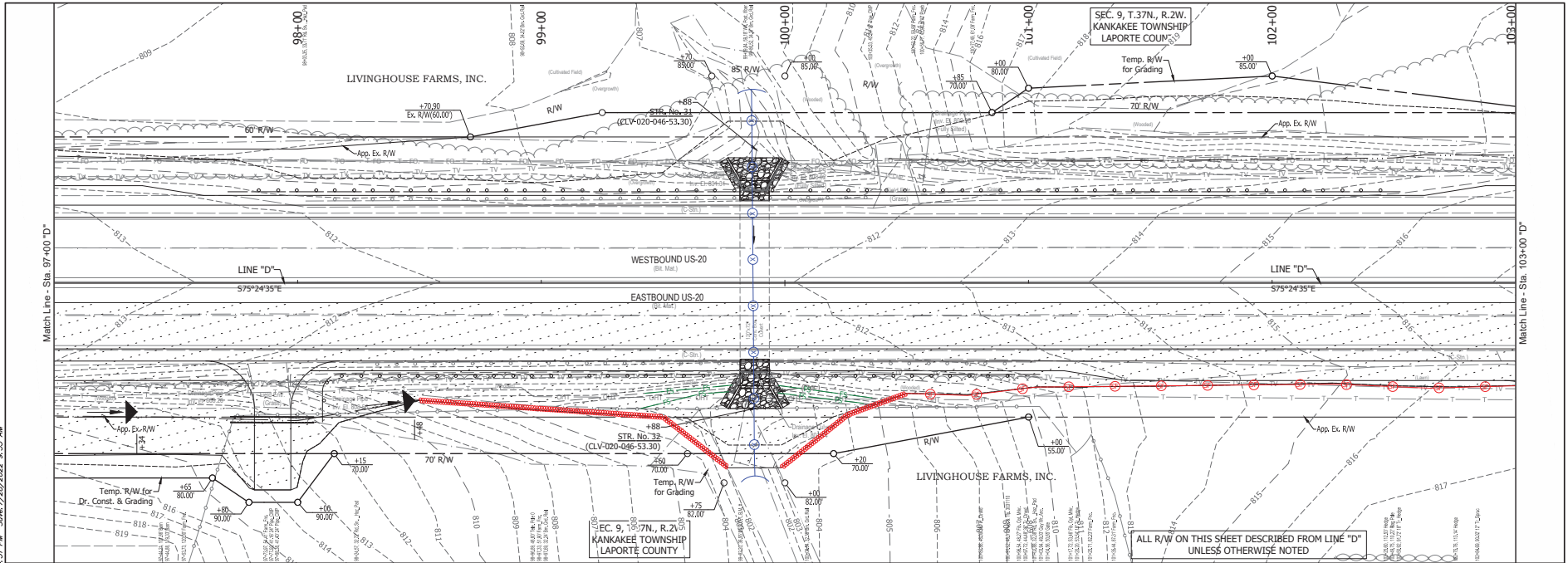
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DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS**  
**PHASE 3**

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	17-07
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
145	108   271
CONTRACT	PROJECT
R-42452	1900050

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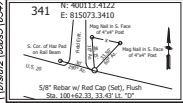
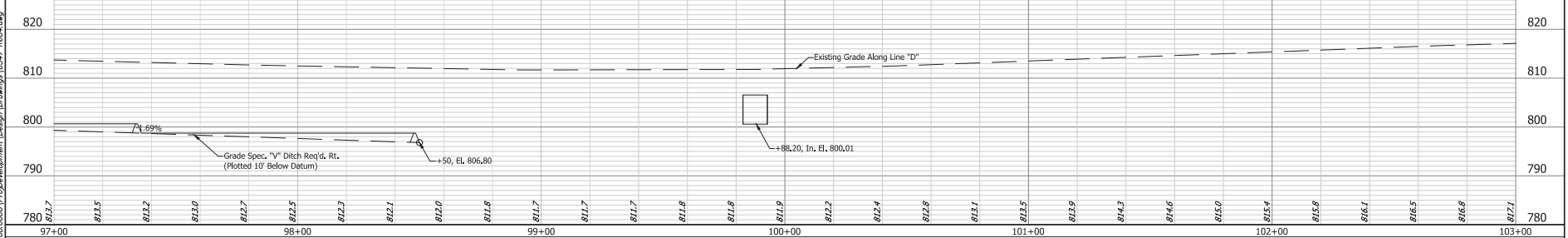
LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

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FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS

ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

INDOT B.M. L-0015  
 Disk On S.W. Headwall Of Culvert  
 Carrying Little Kankakee River  
 Sta. 99+82.20, 36.55' RL "D"  
 Elev. 809.605'

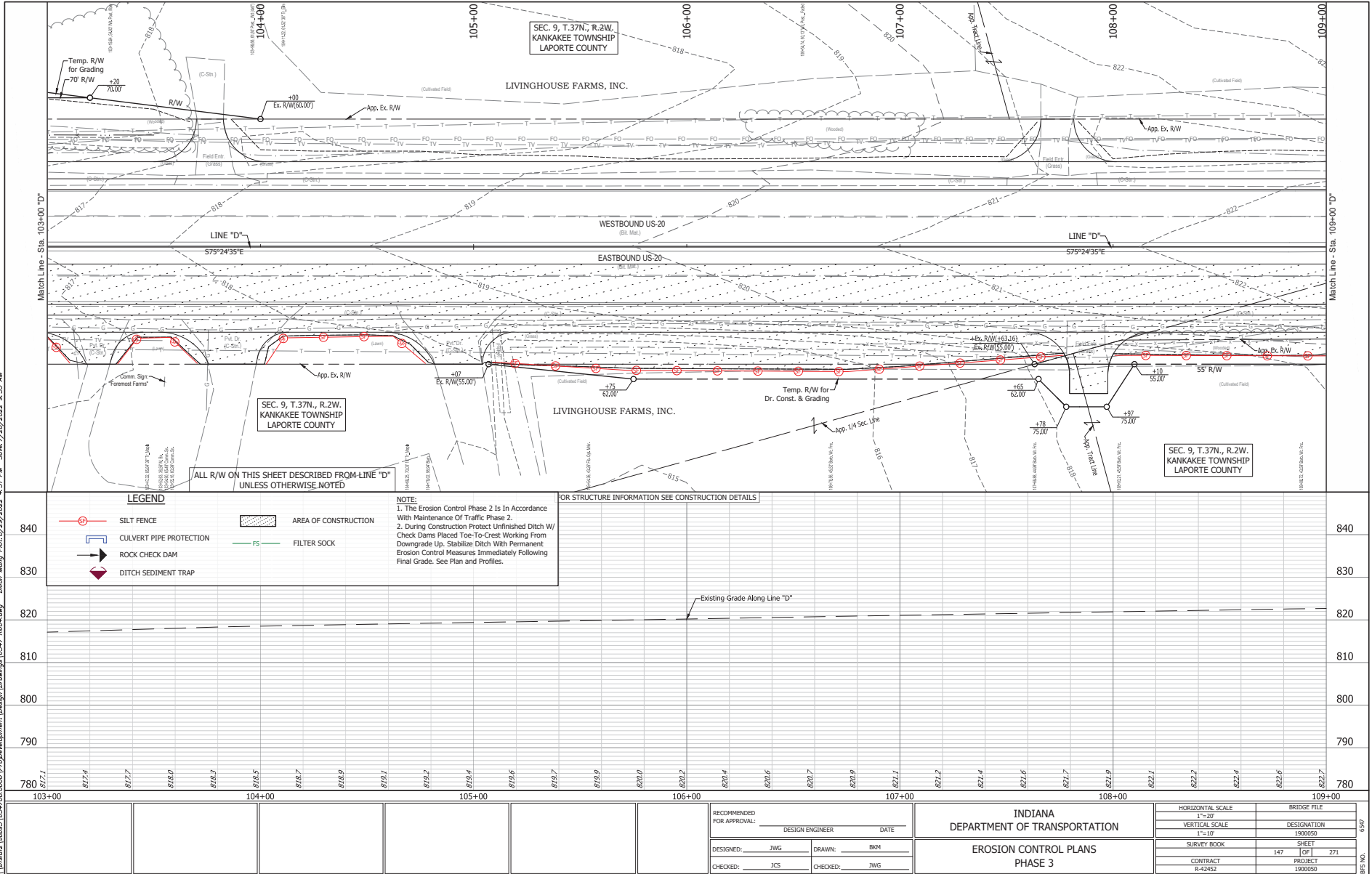


RECOMMENDED FOR APPROVAL:		DESIGN ENGINEER	DATE
DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 EROSION CONTROL PLANS  
 PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
146	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050

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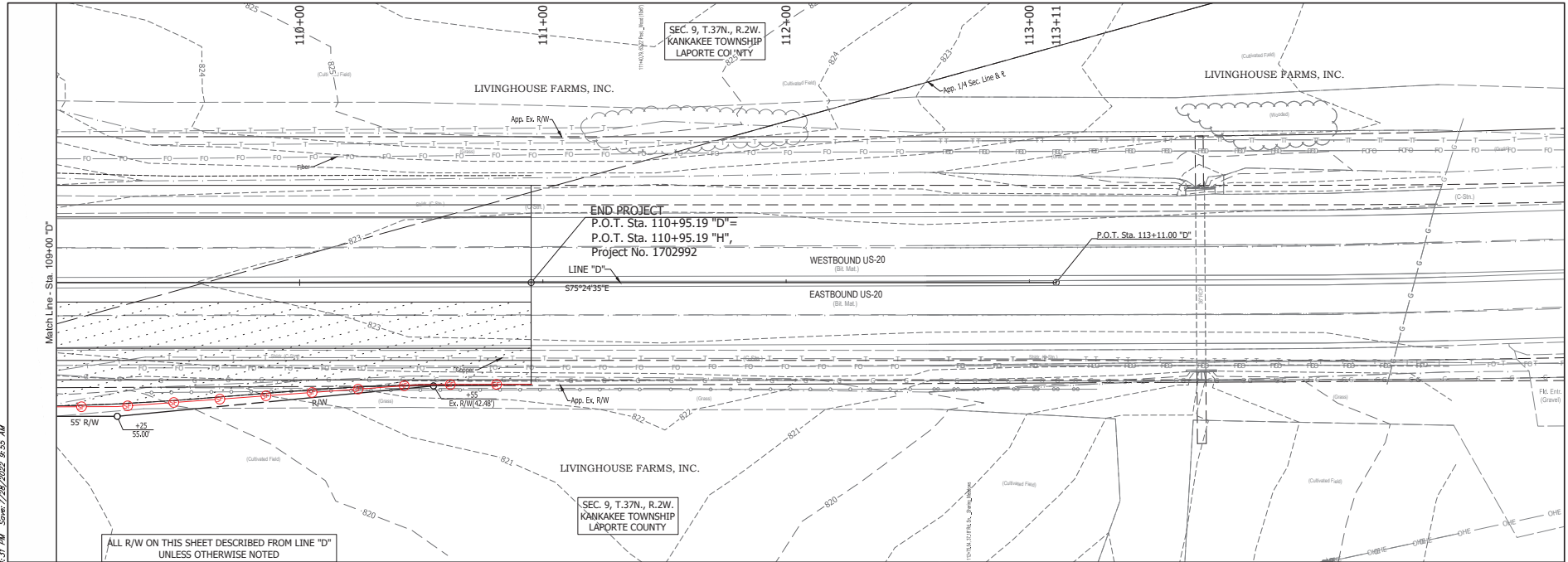


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DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

INDIANA  
DEPARTMENT OF TRANSPORTATION  
EROSION CONTROL PLANS  
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1900050
SURVEY BOOK	SHEET
147	1 OF 1 271
CONTRACT	PROJECT
R-42452	1900050

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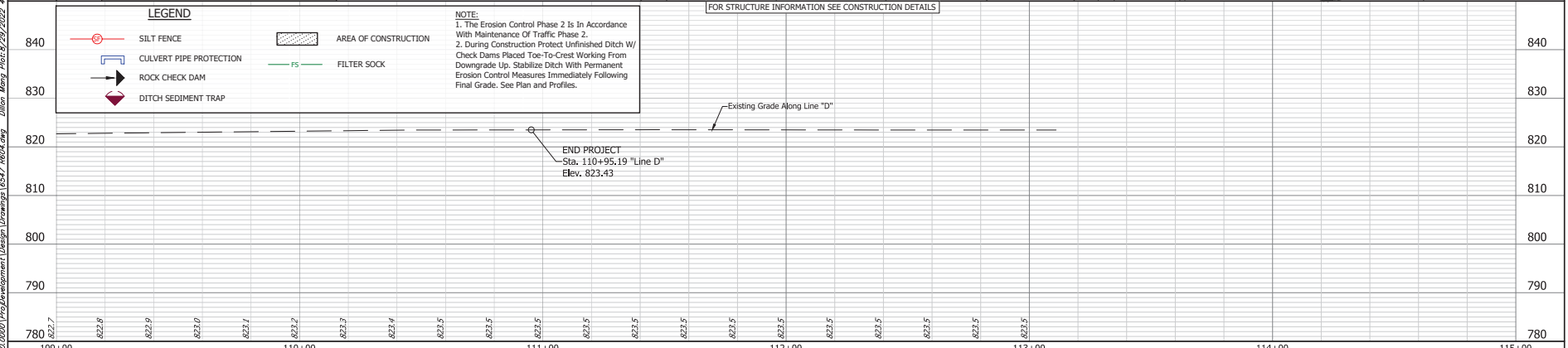


ALL R/W ON THIS SHEET DESCRIBED FROM LINE "D" UNLESS OTHERWISE NOTED

LEGEND	
	SILT FENCE
	CULVERT PIPE PROTECTION
	ROCK CHECK DAM
	DITCH SEDIMENT TRAP
	AREA OF CONSTRUCTION
	FILTER SOCK

NOTE:  
 1. The Erosion Control Phase 2 Is In Accordance With Maintenance Of Traffic Phase 2.  
 2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

FOR STRUCTURE INFORMATION SEE CONSTRUCTION DETAILS



	342 N: 399870.73065 E: 816071.3065 1" = 10'	DESIGNER: JWG DRAWN: BKM CHECKED: JCS DATE:	INDIANA DEPARTMENT OF TRANSPORTATION EROSION CONTROL PLANS PHASE 3	HORIZONTAL SCALE 1" = 50'	BRIDGE FILE DESIGNATION 1900050
				VERTICAL SCALE 1" = 10'	SURVEY BOOK 148


















CSGP Checklist - Section C:

**Stormwater Pollution Prevention Plan - Post-Construction**

- C-1** Description Of Potential Pollutants And Their Sources Associated With The Proposed Land Use  
See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Details.
- C-2** Description Of Proposed Post Construction Stormwater Quality Measures.  
Permanent Erosion Control Measure Will Be Used As Shown On The Plan & Profile And Erosion Control Sheets For Post-Construction Stormwater Quality Management. Seed Will Be Used In All Disturbed Areas For Permanent Stormwater Quality Measures. Geotextiles Will Be Utilized Under Riprap At All Locations In Accordance w/INDOT Standard Specifications 616.11. Riprap Splash Pads Shall Be Constructed At Pipe Outlets As Shown On The Plan & Profile And Erosion Control Sheets In Accordance With 616.05.
- | Location                | Pre-Construction (10 yr.) | Post-Construction (10 yr.) |
|-------------------------|---------------------------|----------------------------|
| 255+00 to 284+00 "PR-D" | 27.93 cfs                 | 29.92 cfs                  |
| 284+00 to 290+00 "PR-D" | 6.05 cfs                  | 7.23 cfs                   |
| 290+00 to 315+00 "PR-D" | 25.13 cfs                 | 27.53 cfs                  |
| 315+00 to 359+00 "D"    | 38.12 cfs                 | 41.87 cfs                  |
| 359+00 to 367+00 "D"    | 11.29 cfs                 | 12.10 cfs                  |
| 367+00 to 411+00 "D"    | 34.66 cfs                 | 37.53 cfs                  |
- C-3** Location, Dimensions, Detail Specifications, And Construction Details Of All Post-Construction Stormwater Quality And Stormwater Management Measures Listed In C-2 Above  
See The Erosion Control Sheets & Erosion Control Details.
- C-4** Sequence Describing Stormwater Quality Measure Implementation.  
All Disturbed Ground Will Be Seeded And Stabilized Immediately After Grading Or When The Project Is Substantially Complete. Riprap Splash Pads And Geotextiles Shall Be Constructed As Soon As Outlet Structures Are Installed. See The Plan & Profile, Erosion Control & Erosion Control Detail Sheets.
- C-5** Description Of Maintenance Guidelines For Post Construction Stormwater Quality Measures.  
The Contractor Shall Ensure That Revegetated Areas Become Fully Established And Shall Water, Re-Seed And Re-Stabilize As Necessary. The Owners Shall Clean Up Trash And Shall Perform Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.
- C-6** Entity That Will Be Responsible For Operation And Maintenance Of The Post-Construction System (If Known)  
INDOT LaPorte District

**INDOT STANDARD DRAWING REFERENCES**

-  SILT FENCE
-  TEMP. DIVERSION INTERCEPTOR
-  TEMP. INTERCEPTOR DITCH
-  SLOPE DRAIN
-  FILTER SOCK
-  PUMP AROUND
-  PROPOSED DITCH
-  ROCK FILTER BERM
-  CULVERT PIPE PROTECTION
-  ROCK CHECK DAM
-  DITCH SEDIMENT TRAP
-  DROP INLET PROTECTION
-  CURB INLET PROTECTION
-  PERMANENT RIPRAP
-  AREA OF CONSTRUCTION

EROSION AND SEDIMENT CONTROL PLAN ELEMENTS		
ITEM NO.	DESIGNATION	SHEET NO.
A-1	STORMWATER POLLUTION PREVENTION PLAN INDEX	
A-2	VICINITY MAP	
A-3	PROJECT NARRATIVE	
A-4	PROJECT LATITUDE AND LONGITUDE	
A-5	LEGAL DESCRIPTION	
A-6	11x17 INCH PLAT SHEETS	
A-7	BOUNDARIES OF 100-YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS	
A-8	LAND USE OF ADJACENT PROPERTIES	
A-9	IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL	
A-10	NAME(S) OF RECEIVING WATER(S)	
A-11	IDENTIFICATION OF DISCHARGES TO WATER ON 303(d) LIST	
A-12	SOILS MAP	
A-13	IDENTIFICATION AND LOCATION OF ALL KNOW WETLANDS, LAKES AND WATERCOURSES	
A-14	IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS	
A-15	IDENTIFICATION AND DELINEATION OF EXISTING COVER	
A-16	EXISTING SITE TOPOGRAPHY	
A-17	LOCATION(S) WHERE RUN-OFF ENTERS PROJECT SITE	
A-18	LOCATION(S) WHERE RUN-OFF DISCHARGES FROM PROJECT SITE PRIOR TO LAND DISTURBANCE	
A-19	LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE	
A-20	EXISTING PERMANENT RETENTION OR DETENTION FACILITIES	
A-21	LOCATION(S) WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER	
A-22	SIZE OF THE PROJECT AREA	
A-23	TOTAL EXPECTED LAND DISTURBANCE	
A-24	PROPOSED FINAL TOPOGRAPHY	
A-25	LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	
A-26	LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS	
A-27	LOCATIONS OF SPECIFIC POINTS WHERE DISCHARGE WILL LEAVE PROJECT SITE	
A-28	LOCATION OF ALL PROPOSED SITE IMPROVEMENTS	
A-29	LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS	
A-30	CONSTRUCTION SUPPORT ACTIVITIES	
A-31	LOCATION OF ANY IN-STREAM ACTIVITIES	
B-1 - B-15	CONSTRUCTION COMPONENT	
C-1 - C-6	POST-CONSTRUCTION COMPONENT	

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____	HORIZONTAL SCALE _____ BRIDGE FILE _____ VERTICAL SCALE _____ DESIGNATION _____ N/A 1900050
INDIANA DEPARTMENT OF TRANSPORTATION	SURVEY BOOK _____ SHEET _____ CONTRACT R-42452 PROJECT 1900050
EROSION CONTROL NOTES	SHEET 271 OF 271

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**EROSION CONTROL NOTES**

**GENERAL:**

Take Measures To Control Erosion And Sedimentation To Assure That Sediment Is Not Transported From The Site By Storm Events. Practices Such As Silt Traps Or Filters Shall Be Installed Prior To Land Disturbing Activities. New Drainage Swales Shall Be Seeded And/Or Sodded, Or Other Protective Practices Applied, Immediately Following Construction. All Practices Shall Be Maintained To Remove Sediment From Runoff Leaving The Site As Long As Unstabilized Soil Conditions Exist.

After Land Disturbing Activities Cease And The Soil Is Stabilized, Temporary Erosion Control Measures May Be Eliminated If Their Purpose Has Been Fulfilled. Any Disturbed Soil Resulting From Removal Of Such Practices Shall Be Stabilized By Approved Methods.

Dispose Properly All Waste And Unused Building Materials Including, But Not Limited To, Garbage, Debris, Cleaning Wastes, Water, Toxic Materials, And Hazardous Substances. Do Not Allow Substances To Be Carried By Runoff Into A Receiving Channel Or Storm Sewer System.

Clean Public Or Private Roadways Daily And After Major Storms Using Acceptable Methods To Remove Any Accumulated Sediment. The Developer's Contractors Are Responsible For Supervision Of The Construction Activity Within The Development And Shall Take All Necessary Actions To Remove Sediment From The Streets.

For Construction Sequence, Maintenance, And Other Soil Erosion Requirements, See Specifications For Site Clearing, Slope Protection, Erosion Control, Landscaping, And Seeding.

Erosion And Sediment Control Practices Must Adhere To, Or Exceed Those Shown On The Erosion Control Plan, (And The Construction Stormwater General Permit) And Shall Be In Accordance With The Indiana Storm Water Quality Manual, Indiana Department Of Environmental Management.

**SURFACE STABILIZATION:**

Cut Slopes Which Are To Be Topsoiled Should Be Scarified To A Minimum Depth Of 4 Inches Prior To Placement Of Topsoil. Install Erosion Control Blankets On All Slopes Of 3 (Horizontal) To 1 (Vertical) Or Steeper.

Stabilize All Disturbed Ground Left Inactive For Seven (7) Or More Days By Seeding, Sodding, Mulching, Or By Other Equivalent Erosion Control Practices.

**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD:**

Construct The Temporary Gravel Drive Using 12 Inches Minimum Of INDOT CA No. 2 Washed Stone Over Geotextile. Grade For Positive Drainage.

Inspect The Entrance Pad Area Weekly And After Storm Events Or Heavy Use. Reshape The Pad As Needed For Drainage And Runoff Control. Top Dress Pad With Clean Stone.

**SODDING:**

Do Not Install Sod On Hot, Dry Soil, Frozen Soil, Compacted Clay, Loose Sand Or Gravel, Or Pesticide Treated Soil. Ideal Sodding Time Is May 1-June 1, Or September 1-October 20, Although It Can Be Installed As Early As March 15, If Available And Temperatures Are Above 32°F, Or June 1-September 1 If Irrigated.

Install Sod After Other Erosion Control Practices Have Been Completed. Break Up Compacted Soils Sufficiently To Create A Favorable Rooting Depth Of 6-8 Inches, Using A Chisel Plow, Disk, Harrow, Or Rake.

Apply Topsoil If The Site Is Otherwise Unsuitable For Establishing Vegetation. Shape, Smooth, And Firm The Soil Surface.

Have The Soil In The Sod Bed Tested To Determine Its pH And Nutrient Level. If The pH Is Too Acidic For The Grass Sod To Be Installed, Apply Lime According To Test Results Or At The Rate Recommended By The Sod Supplier.

Fertilize As Recommended By The Soil Test. If Testing Was Not Done, Consider Applying 400-600 Lbs./Acre Of 12-12-12 Analysis Fertilizer, Or Equivalent Fertilizer, As Recommended By The Soil Test. Consider The Use Of Reduced Phosphorus Application Where Soil Tests Indicate Adequate Phosphorus Levels In The Soil Profile. Work The Fertilizer Into The Soil To 2-4 Inches Deep.

Rake Or Harrow The Area To Achieve A Smooth Final Grade And Then Roll Or Cultipack The Soil Surface To Create A Firm Surface On Which To Lay The Sod.

**TREE CONSERVATION/PROTECTION:**

Protect Trees From Construction Equipment By Fencing Off An Area Equivalent To The Tree's Crown With Temporary Construction Safety Fence. If A Fence Cannot Be Erected, Cushion The Rooting Area With 6 Inches Of Wood Chips, Or Wood Or Brick Paths.

Create Traffic Patterns Such As To Keep Soil Compaction To A Minimum. Store Supplies And Equipment Away From Protected Tree Areas. Aerate Soil Where Compaction Has Been Excessive.

When Clearing Areas Adjacent To Protected Trees, Use Equipment Such As A Brush Cutter Or Rotary Ax, Or Cut By Hand. Where Root Areas Must Be Graded, Cut Large Roots Instead Of Tearing Them With Equipment.

**EROSION CONTROL NOTES (Cont)**

Minimize Changes In The Drainage Pattern. Avoid Putting Fill Over The Root System.

Prune Low Hanging Limbs That Could Otherwise Be Broken Off By Equipment.

Repair Wounds Simply By Removing Damaged Bark And Wood Tissue (Do Not Use Tree Paint).

**EROSION CONTROL BLANKETS:**

Use Machine Produced Mat Of Straw Fiber Matrix Or Curled Wood Excelsior Of 80 Percent, 6 Inch Or Longer Fiber Length.

Evenly Distribute Fibers Over Entire Area Of Blanket To Provide Consistent Thickness.

Provide Blanket With Top Side Covered With Biodegradable Extruded Plastic Mesh.

Treat Blankets To Impart Smolder Resistance Without Use Of Chemical Additives.

Provide "Curlax Blankets" By American Excelsior Company, Or "S150" By North American Green, Or Accepted Substitute.

**EROSION CONTROL BLANKET STAPLES:**

Use Minimum 0.091 Inch Diameter Steel Wire "U" Shape With Legs 6 Inches In Length With 1 Inch Crown.

**SEEDING:**

The Following Table Is For General Seeding Information Only. Consult The Indiana Storm Water Quality Manual For Recommendations Relating To Steep Banks And Cuts, High Maintenance Areas, And Channels And Areas Of Concentrated Flow.

**SEEDS:**

- 40 Percent Kentucky Bluegrass
- 40 Percent Creeping Red Fescue
- 20 Percent Annual Rye Grass

**FERTILIZER:**

Commercial Fertilizer (12-12-12)\*

**STRAW:**

Clean And Free Of Weed Seeds

\*Consider The Use Of Reduced Phosphorus Application Where Soil Tests Indicate Adequate Phosphorus Levels In The Soil Profile.

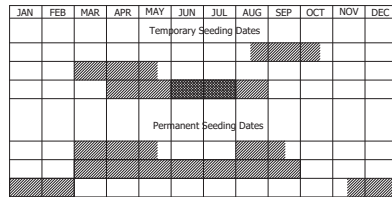
Spread Fertilizer Uniformly Over Finish Graded Surfaces At A Rate Of 20 Pounds Per 1,000 Square Feet. Thoroughly Disk, Harrow, Or Rake Fertilizer Into Soil To Depth Not Less Than 2 Inches.

Distribute Seed Mix Same Day As Fertilizer Is Applied. Spread Evenly At A Rate Of 3 Pounds Per 1,000 Square Feet. Rake Lightly And Compact Areas With 100 Pound Roller.

Cover Areas With Straw Evenly Spread At A Rate Of 2 Tons Per Acre Immediately After Seeding. Water Areas With Fine Spray. Do Not Flood Or Create Washes. Protect Seeded Areas From Erosion.

Continue Watering Of These Areas On A Daily Basis For The Remainder Of The Construction Period.

Hold Sloped Areas Steeper Than 2 (Horizontal) To 1 (Vertical) With Wire Mesh Or Stakes And Wire.



Wheat Or Rye  
Oats  
Annual Rye Grass  
Non-Irrigated\*  
Irrigated  
Dormant Seeding\*\*

- Irrigation Required
- Seeding Dates May Be Extended 5 Days If Mulch Applied And Planted Late Summer
- \*\* Increase Seeding Rate By 50%

**NOTES:**

If Construction Activities Take Place During The Months Of November Through February, Use Dormant Seeding Practices In Place Of Temporary And Permanent Seeding Practices.

See Chapter 7 Of The Indiana Storm Water Quality Manual, For Additional Seeding Recommendations.

**Potential Storm Water Pollutants Material Handling and Spill Prevention**

Trade Name /Material	Source	Chemical/Physical Description	Storm Water Pollutants	Remedial Action
Fertilizer	Landscaping Activities	Liquid or Solid Grains	Nitrogen, Phosphorus	(1), (2), (3)
Cleaning Solvents	Normal Business Operation	Colorless, Blue Or Yellow-Green Liquid	Perchloroethylene, Methylene Chloride, Trichloroethylene, Petroleum Distillates	Seal Drains & Inlets w/Plastic And Or Tape And Collect Excess, (1), (2), (3), (4)
Asphalt	Site Construction	Black Solid	Oil, Petroleum Distillates	(1), (2) Due To Contamination Of Runoff Before Curing Is Complete
Concrete	Bridge Construction	White Solid	Limestone, Sand	Concrete Washout Areas Shall Be Utilized & Concrete Disposed Of Properly Once Hardened (2)
Paints	Roadway Striping	Various Colored Liquids	Metal Oxides, Stoddard Solvent, Talk, Calcium Carbonate, Arsenic	Care Should Be Taken To Minimize Overspray (1), (2), (3), (4)
Curing Compounds	Site Construction	Creamy White Liquid	Naphtha	(1), (2), (3), (4)
Wastewater From Constr. Equipment Washing	Construction Equipment	Water	Soil, Oil, Grease, Solids	Equipment Washing Shall Be Executed In A Location Which Does Not Cause Wastewater To Drain Directly To Storm Sewers Or Ditches (i.e. Flat Vegetated Area) (2)
Hydraulic Oil/Fluids	Construction Equipment, Cars	Brown Oily Petroleum Hydrocarbon	Mineral Oil	Storm Structures Incorporate A Hooded Outlet Preventing Floatables From Exiting Site, (3), (4)
Gasoline	On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations	Colorless, Pale Brown Or Pink Petroleum Hydrocarbon	Benzene, Ethyl Benzene, Toluene, Xylene, MTBE	Storage Tanks Shall Have Emergency Storage Capacity Below Tank In Case Of Rupture, 3'x3'x6" Spill Pans Shall Be Used During Fueling, (3), (4)
Diesel Fuel	On Site Storage Tanks, Cars, Construction Equipment, Fueling Operations	Clear, Blue-Green To Yellow Liquid	Bpetroleum Distillate, Oil And Grease, Naphthalene, Xylenes	Storage tanks shall have emergency storage capacity below tank in case of rupture, 3'x3'x6" spill pans shall be used during fueling, (3), (4)
Kerosene	Cleaning Operations, Heaters	Pale Yellow Liquid Petroleum Hydrocarbon	Coal Oil, Petroleum Distillates, Arsenic, Copper	3'x2'x6" Spill Pans Shall Be Used During Fueling Operations And Cleaning Of Equip. To Catch Excess, (1), (2), (3), (4)
Antifreeze Coolant	Construction Equipment, Cars	Clear Green/Yellow Liquid	Ethylene Glycol, Propylene Glycol, Heavy Metals (Copper, Lead, Zinc)	(1), (2), (3), (4)
Soil Erosion	Exposed Soil	Solid Particles	Soil Sediment	Erosion Control Measures (This Sh.)
Solid Waste Trash	Normal Business Operation	Trash, Debris, Refuse	Trash, Debris, Refuse	Trash Cans Shall Be Utilized On Site During And After Construction

This Table Was Provided For General Information Only To Supplement Information Used In The Construction Stormwater General Permitting Process. The Contractor Is Responsible For Material Handling And Spill Mitigation Procedures.

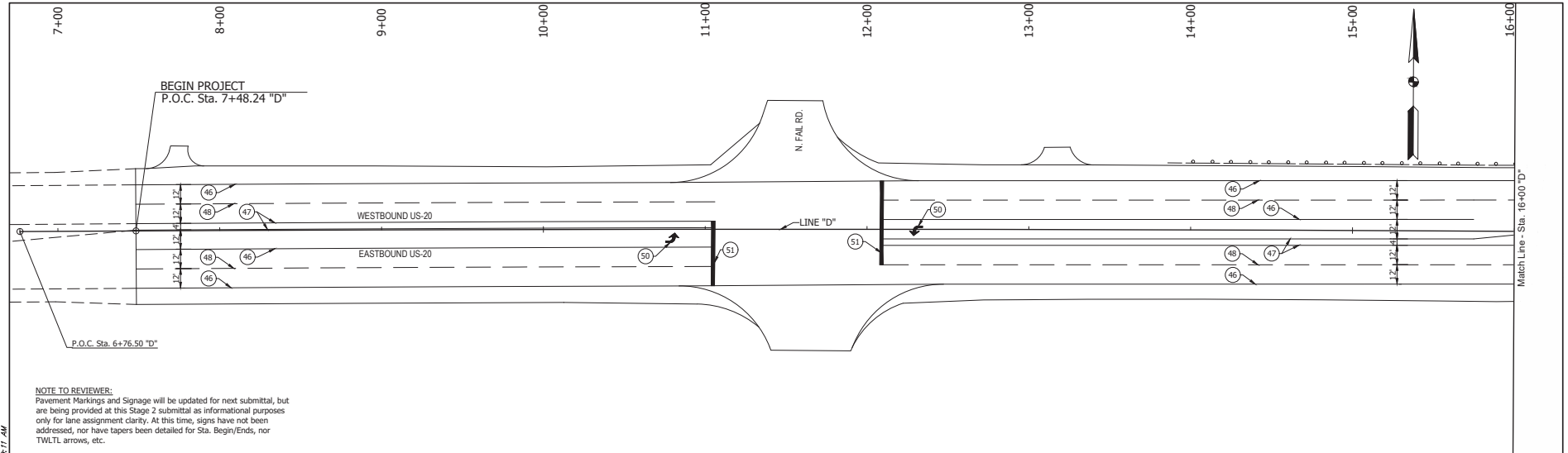
**Notes:**

1. All Excess Materials Shall Be Collected And Disposed Of In Accordance With All Federal, State And Local Regulations.
2. Material Shall Not Be Applied Immediately Preceding, During Or Following Rainfall (When Applicable).
3. Spillage Should Be Cleaned Immediately By A Trained Individual And Disposed Of Per Note (2).
4. Store In Sealed Containers Appropriate For Specific Use.

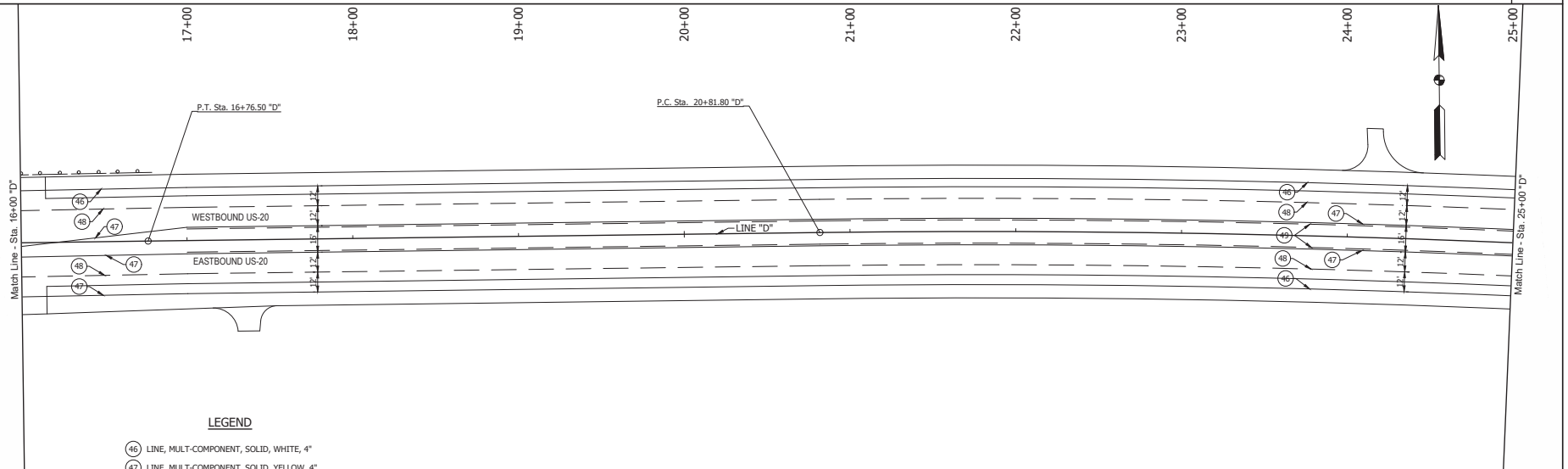
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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JWG DRAWN: BKM CHECKED: JCS CHECKED: JWG	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>		HORIZONTAL SCALE	BRIDGE FILE
	<b>EROSION CONTROL NOTES</b>		VERTICAL SCALE	DESIGNATION
			N/A	1900050
	<b>EROSION CONTROL NOTES</b>		SURVEY BOOK	SHEET
CONTRACT			PROJECT	
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**NOTE TO REVIEWER:**  
 Pavement Markings and Signage will be updated for next submittal, but are being provided at this Stage 2 submittal as informational purposes only for lane assignment clarity. At this time, signs have not been addressed, nor have tapers been detailed for Sta. Begin/Ends, nor TWLTL arrows, etc.



**LEGEND**

- (46) LINE, MULT-COMPONENT, SOLID, WHITE, 4"
- (47) LINE, MULT-COMPONENT, SOLID, YELLOW, 4"
- (48) LINE, MULT-COMPONENT, BROKEN, WHITE, 4"
- (49) LINE, MULT-COMPONENT, BROKEN, YELLOW, 4"
- (50) PAVEMENT MESSAGE MARKING, THERMOPLASTIC, LANE INDICATION ARROW
- (51) TRANSVERSE MARKING, THERMOPLASTIC, STOP LINE, 24"

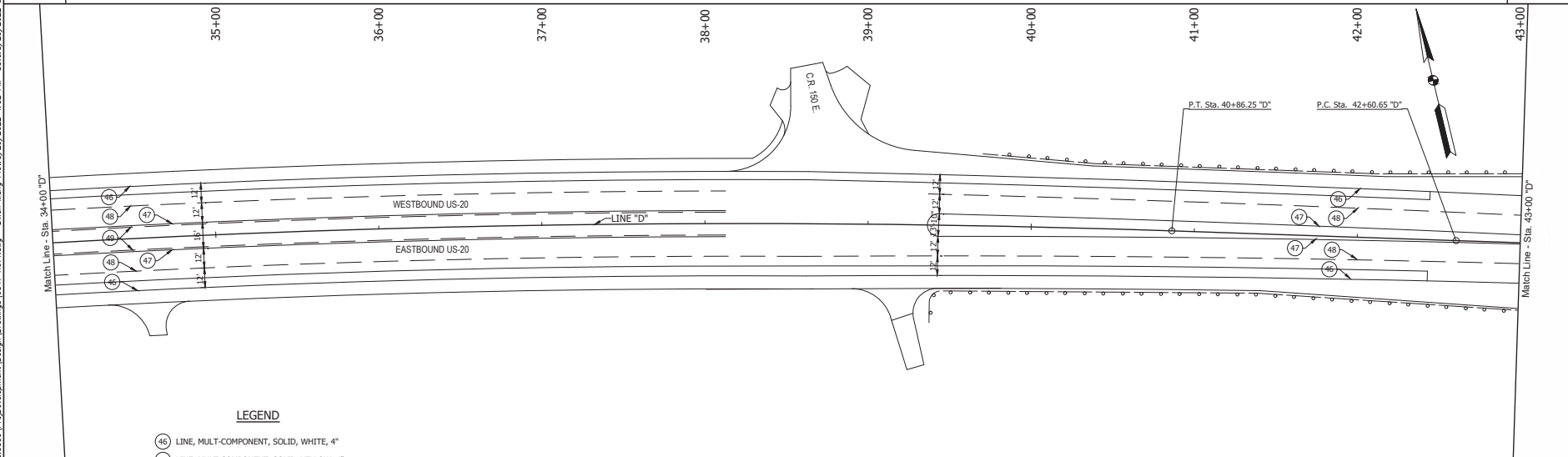
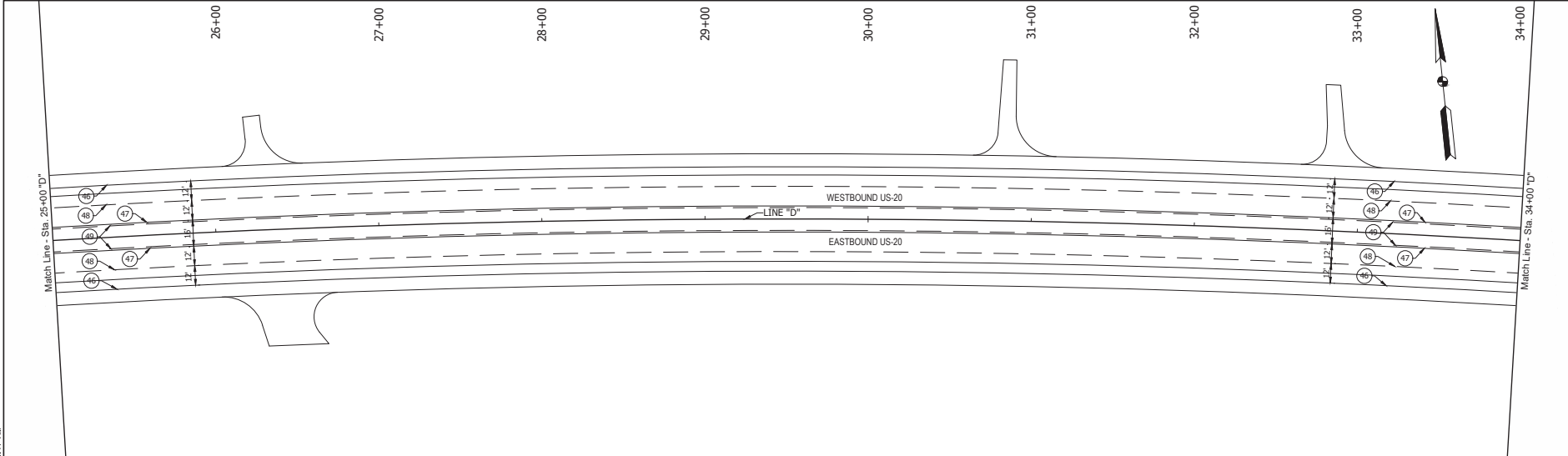
- Note:**
1. Center Line & Edge Line Corrugations are to be installed (Details & Limits to be provided at next submittal)
  2. All Stop Bars are 14.5' from the edge of through lane

INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE	
PAVEMENT MARKING & SIGNAGE		DESIGNATION	SHEET
DESIGNED: JWG	DRAWN: BKM	152	271
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		CONTRACT R-42452	PROJECT 1900050

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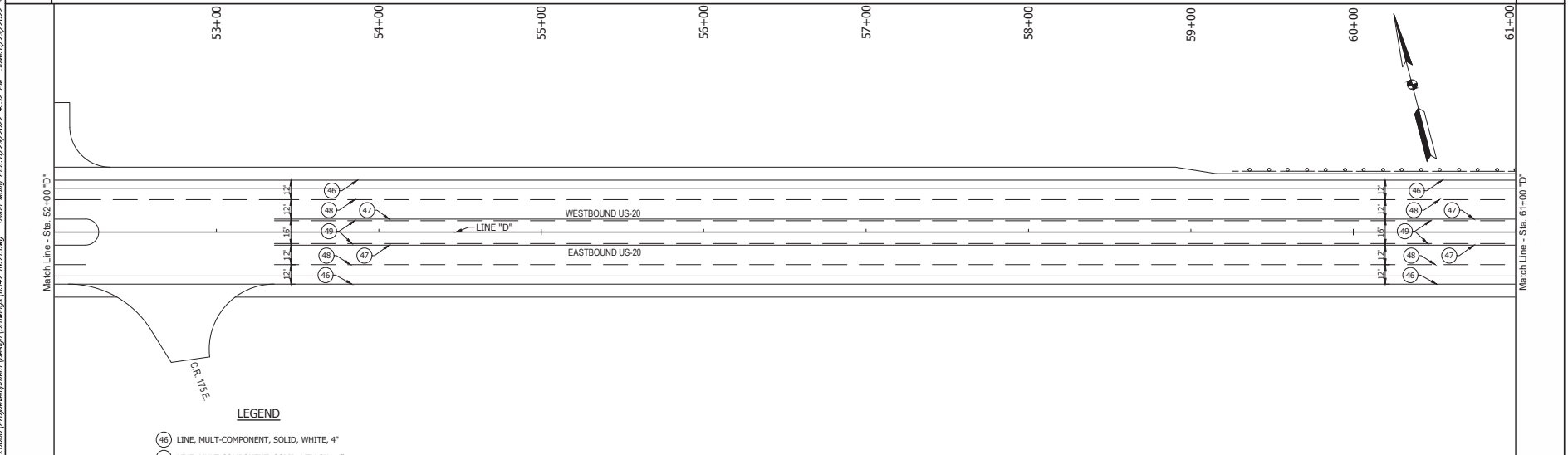
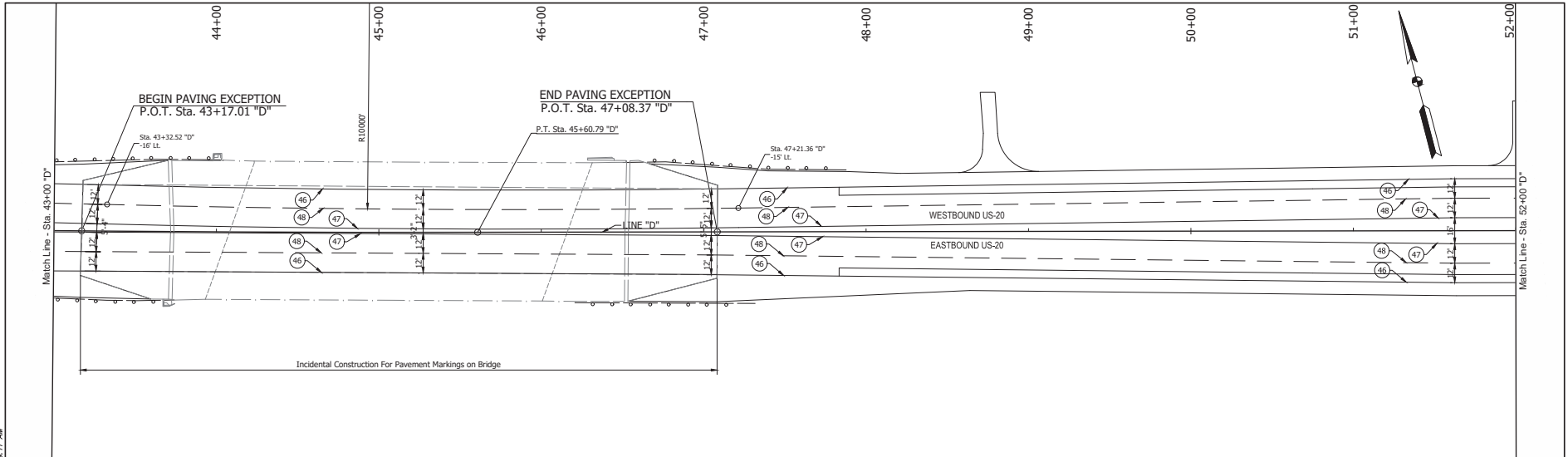
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								DESIGNATION	
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DEPARTMENT OF TRANSPORTATION**

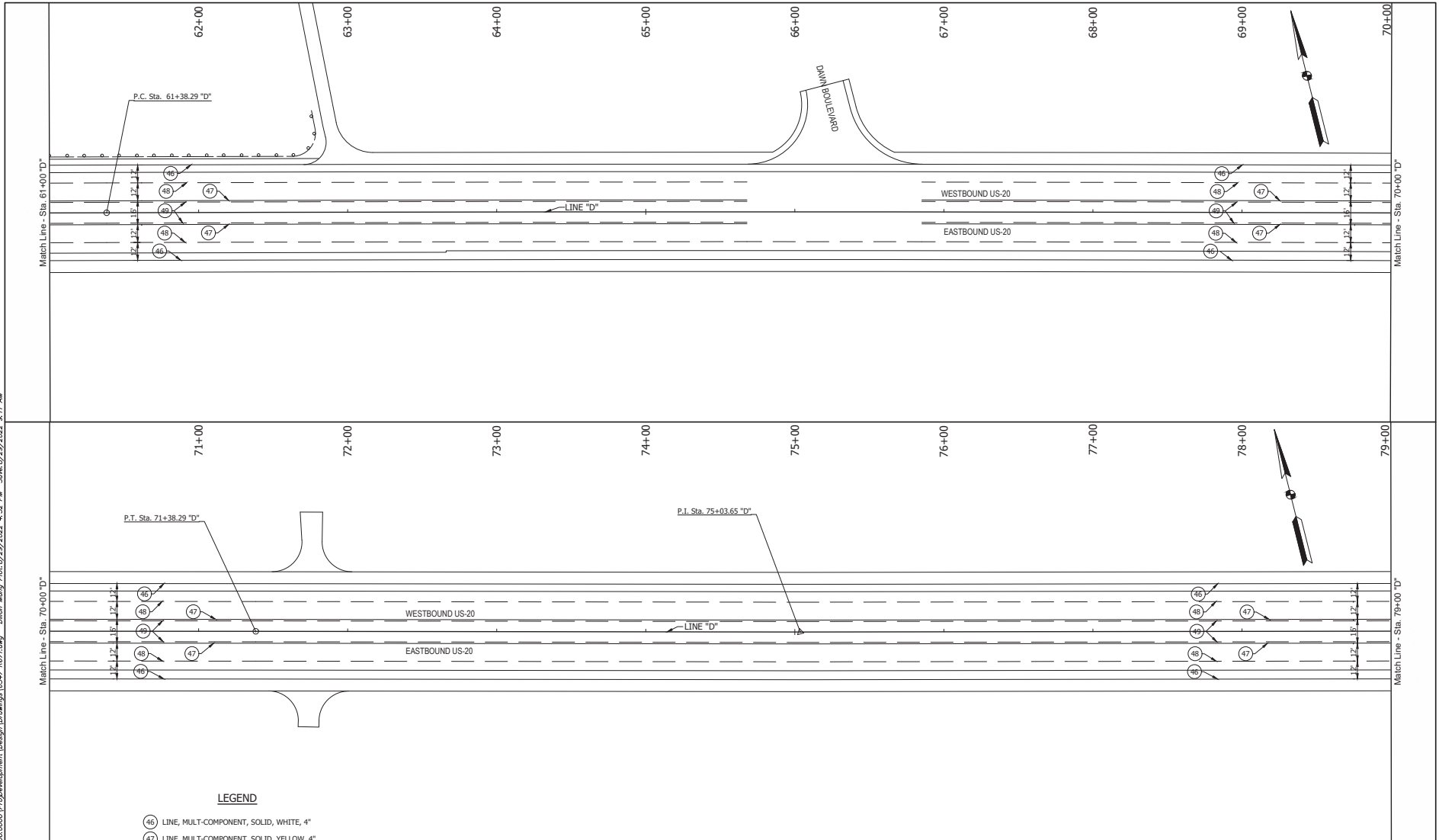
**PAVEMENT MARKING & SIGNAGE**

HORIZONTAL SCALE	BRIDGE FILE
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CONTRACT	PROJECT
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DESIGN ENGINEER		DATE	
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**INDIANA  
DEPARTMENT OF TRANSPORTATION**

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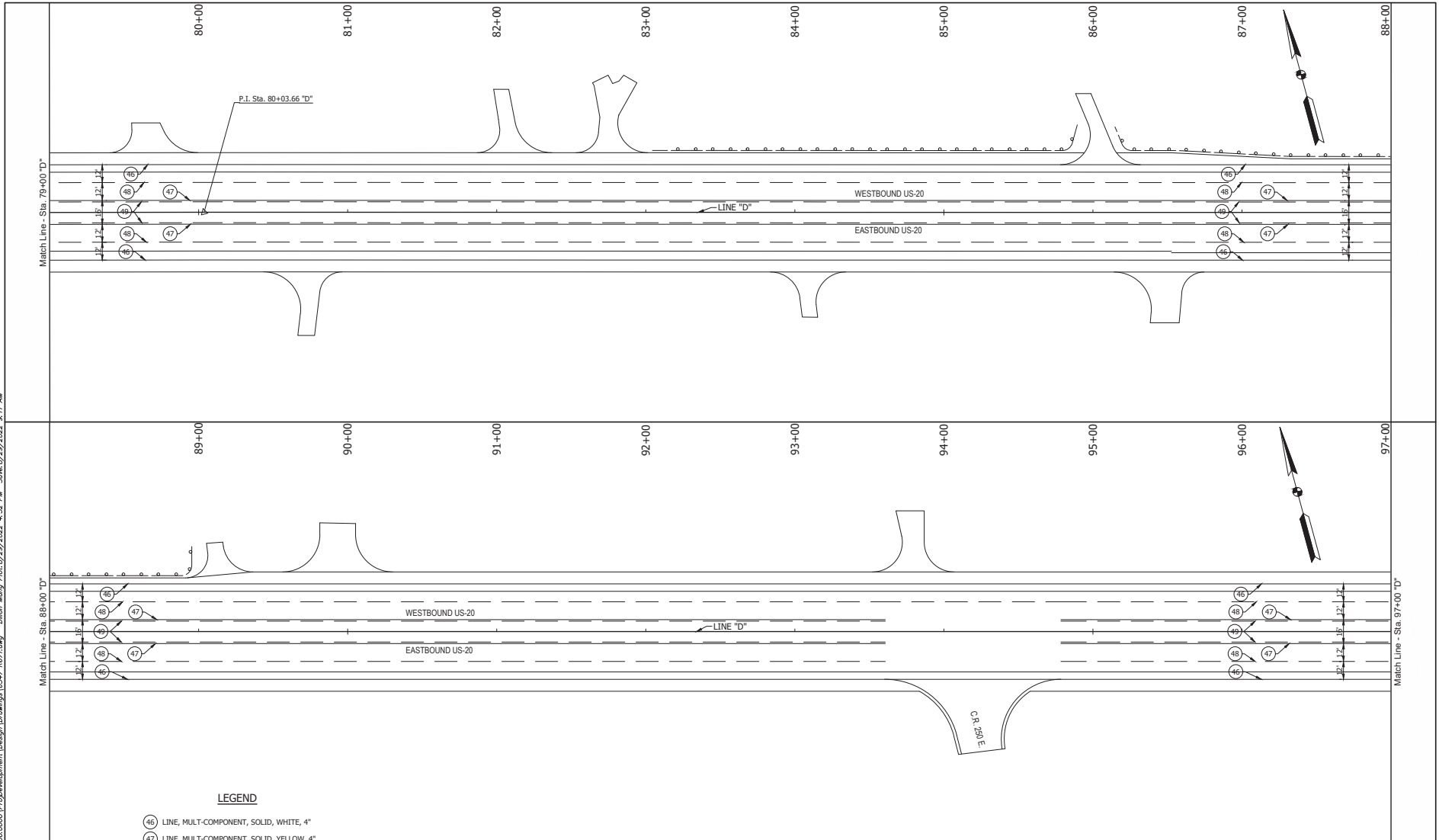
**PAVEMENT MARKING & SIGNAGE**

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
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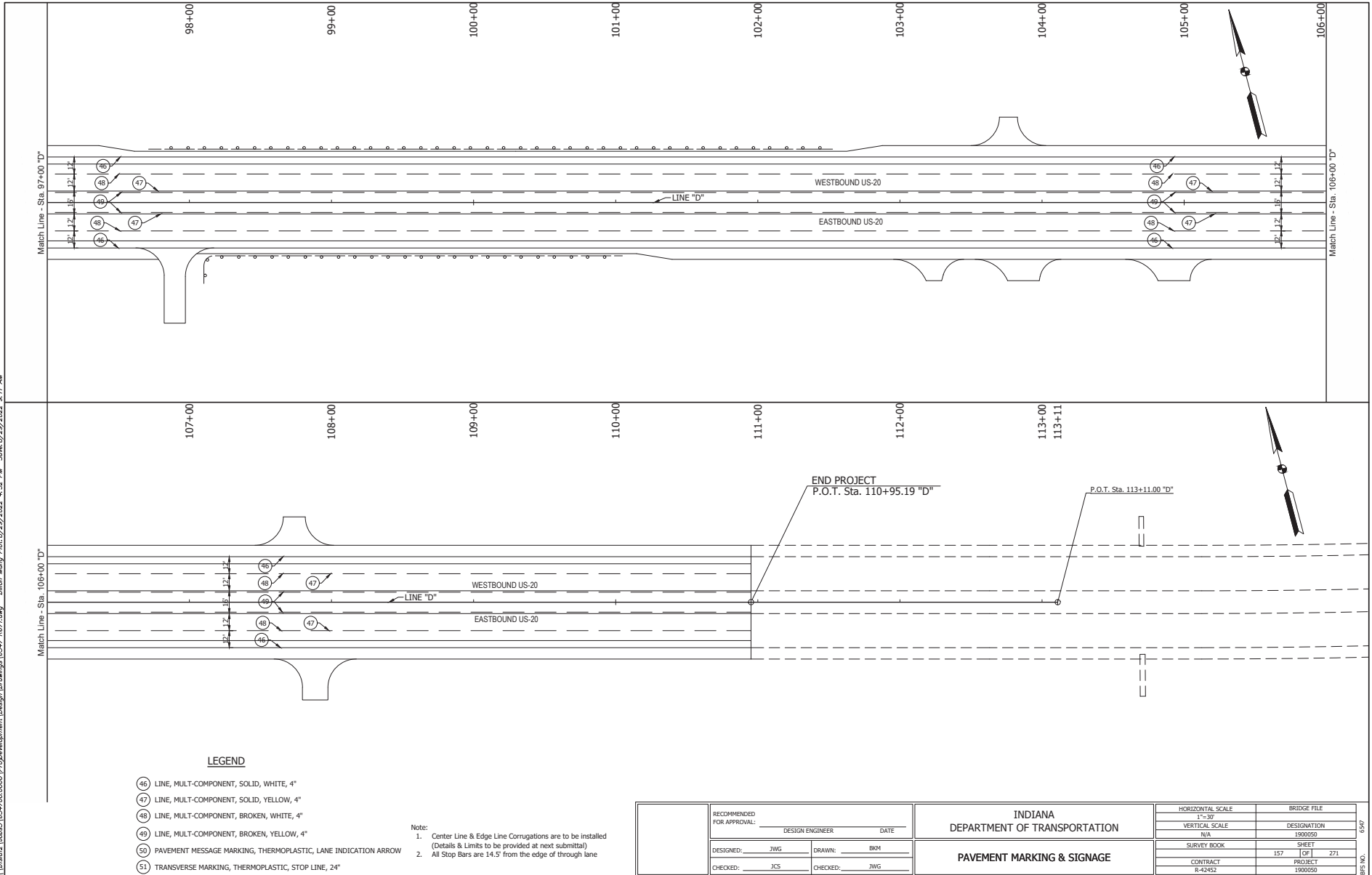
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PAVEMENT MARKING & SIGNAGE		DESIGNATION	
R-42452		1900050	
PROJECT		SHEET	
R-42452		156 OF 271	
PROJECT		SHEET	
R-42452		156 OF 271	
PROJECT		SHEET	
R-42452		156 OF 271	

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DESIGNED: JWG	DRAWN: BKM		
CHECKED: JCS	CHECKED: JWG		

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	
<b>PAVEMENT MARKING &amp; SIGNAGE</b>	

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	
VERTICAL SCALE	DESIGNATION
N/A	1900050
SURVEY BOOK	SHEET
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CONTRACT	PROJECT
R-42452	1900050

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BRG NO.









## SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADIUS	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	HMA FOR APPROACHES/PATH					QC/QA HMA MATERIAL FOR MAINLINE					HMA FOR TEMP. PAVEMENT				SUBGRADE TREATMENT TYPE II	SUBGRADE TREATMENT TYPE III	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53	D-1 CONTRACTION JOINTS	PCCP 7.5 IN	PCCP FOR APPROACHES 9 IN.	2'-7" COMBINED CONCRETE CURB & GUTTER	2'-0" COMBINED CONCRETE CURB & GUTTER	2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER	2'-0" CONCRETE ROLL CURB & GUTTER	CONCRETE CURB	REMARKS														
					COMPACTED AGGREGATE BASE	HMA	CONCRETE			110	330	220	275	110	220	275	275	330	220	110	440	440	330			220	SYS.											SYS.	SYS.	TONS	TONS	SYS.	SYS.	LFT	SYS.	SYS.	LFT	LFT	LFT	LFT	LFT
					FEET	FEET	FEET			%	%	CUT CYS.	FILL CYS.	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS			TONS	TONS											TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS
LINE "D"																																																			
7+70 Lt.	Mod. Cl. V	12	13.9	15,15			-0.25																														Modified Width, Radius														
11+55 Lt.	M.P.R.A.	34	50	60,60			2.25																																												
11+65 Rt.	M.P.R.A.	49.5	40.5	60,60			-4.38																																												
13+16 Lt.	Mod. Cl. II	15	14.5	15,15			0.65																														Modified Radius														
17+36 Rt.	Mod. Cl. V	15	15	20,20			-6.04																														Modified Width														
24+16 Lt.	Mod. Cl. II	10	25.7	25,15			5.20	3.30																													Modified Width														
26+26 Lt.	Mod. Cl. II	10	30.2	25,15			-4.00	7.69																													Modified Width														
26+44 Rt.	Mod. Cl. II	34	31.3	25,15	X		-4.00	-9.69																													Modified Width														
30+90 Lt.	Mod. Cl. II	9	58.8	25,15	X		-4.00	-9.75																													Modified Width														
32+85 Lt.	Mod. Cl. II	9	50.7	25,15			-4.00	-9.93																													Modified Width														
34+62 Lt.	Mod. Cl. II	11	20.2	25,15			-3.06																														Modified Width														
38+03 Rt.	Mod. Cl. II	8	17.5	25,5			-8.59																														Modified Width, Radius														
38+42 Lt.	Mod. Cl. II	12	13	10,5			-2.00																														Modified Radius														
38+78 Lt.	M.P.R.A.	20	67	60,60			-4.00																																												
38+88 Rt.	Mod. Cl. II	21	35	5,0		X	-4.00	-10.00																													Modified Radius														
38+93 Lt.	Mod. Cl. IV	19	21	25.58',0			-2.00																														Modified Radius														
39+20 Rt.	Mod. Cl. II	11	47.6	15,15	X		-4.00	-10.00																													Modified Width, Radius														
48+77 Lt.	Mod. Cl. II	9	60	25,15	X		-4.00	10.00																													Modified Width														
52+05 Lt.	Mod. Cl. II	11.5	39.8	25,15	X		1.61	10.00																													Modified Width														
52+79 Rt.	M.P.R.A.	24	46	60,40			0.50																																												
62+90 Lt.	Mod. Cl. II	10	130	25,15	X		-4.00	10.00																													Modified Width														
66+30 Lt.	M.P.R.A.	26	53.8	50,40			2.88																																												
71+74 Rt.	Mod. Cl. V	14	24	25,25			-0.89																														Modified Width														
71+76 Lt.	Mod. Cl. V	14	51.8	25,25	X		2.25	8.12																																											
79+65 Lt.	Cl. II	19	20	25,15			-3.53																																												
80+75 Rt.	Mod. Cl. II	11	42.8	25,15	X		-4.00	10.00																													Modified Width														
82+08 Lt.	Mod. Cl. II	11	43	25,15	X		1.57	8.31																													Modified Width														
82+76 Lt.	Mod. Cl. II	12	47	20,20	X		-1.05	9.10																													Modified Width														
84+09 Rt.	Mod. Cl. II	10.5	30	25,15			-1.64																																												

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JWG DRAWN: BKM CHECKED: JCS CHECKED: JWG	<b>INDIANA</b> DEPARTMENT OF TRANSPORTATION  <b>APPROACH TABLE</b>	HORIZONTAL SCALE _____ BRIDGE FILE _____ VERTICAL SCALE _____ DESIGNATION _____ SURVEY BOOK _____ SHEET _____ CONTRACT R-42452 PROJECT 1900050	161 1 of 1 271 PROJECT 1900050
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## STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE IN.	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH FEET	SKEW	FLOWLINE			SERVICE LIFE YEAR	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL, TYPE 1 CYS.	STRUCTURE BACKFILL, TYPE 2 CYS.	FLOWABLE BACKFILL CYS.	RIPRAP			PIPE END SECTION EA.	GEOTEXTILE, TYP 1A SYS.	GRATED BOX END SECTION		SAFETY METAL END SECTION		CONNECT TO STRUCTURE	REMARKS	
	STATION	LEFT	RIGHT	CROSS						COVER FEET	UP STREAM ELEV.	DOWN STREAM ELEV.								TONS	TONS	TONS			EA.	TYPE	EA.	SLOPE			EA.
11	22+58			X	18	1		108		2.4	814.21	813.43	75	NA	6.5	1	46.4				4	2	9							CLV 020-046-51.84	
12	24+16	X			15	3		30		1.3	817.70	817.25	50	NA	6.5	2	2.8					2									
13	40+30		X		24	1		8		6.4	820.02	820.00	75	NA	6.5	1	9.8				9	1	14							CLV 020-046-52.17	
14	40+30	X			24	1		6		6.1	821.56	821.44	75	NA	6.5	1	7.0					1								CLV 020-046-52.17	
15	52+05	X			15	3		24		1.6	829.27	828.67	50	NA	6.5	2	2.3					2									
16	57+16			X	30	1		116		3.5	820.36	819.94	75	A	6.5	1	98.5				12	2	25							CLV 020-046-52.49	
17	62+90	X			18	3		30		1.1	839.52	838.74	50	NA	6.5	2	3.5					2									
18	71+74		X		15	3		36		0.7	839.41	838.87	50	NA	6.5	2					6.3		2								
19	71+76	X			15	3		30		1.1	839.93	839.90	50	NA	6.5	2	2.8					2									
20	79+65	X			18	3		36		0.1	832.71	832.43	50	NA	6.5	2					4.5		2								
21	80+75		X		18	3		40		1.6	830.41	830.06	50	NA	6.5	2	4.6					2									
22	82+08	X			18	3		26		0.3	830.35	830.05	50	NA	6.5	2					4.0		2								
23	82+76	X			18	3		28		0.2	829.56	829.23	50	NA	6.5	2					4.0		2								
24	84+09		X		18	3		38		1.6	826.30	825.82	50	NA	6.5	2	4.4					2									
25	86+03	X			24	3		28		0.4	825.68	825.36	50	NA	6.5	2					6.1		2								
26	86+49		X		15	3		52		2.3	823.34	822.70	50	NA	6.5	2	4.9					2									
27	89+12	X			15	3		29		1.5	822.01	821.55	50	NA	6.5	2	2.7					2									
28	93+79	X			24	3		32		1.1	813.34	812.6	50	NA	6.5	2	5.2					2									
29	94+26		X		24	1		70		1.4	813.67	813.24	75	NA	6.5	2	11.5					2									
30	97+90		X		15	3		34		0.8	808.07	807.52	50	NA	6.5	2					6.1		2								
31	99+88	X			10'X6'		3 Sided Structure	20		2.8	801.36	801.31	75	A	6.5	1	71.9						2							CV 020-046-53.30	
32	99+88		X		10'X6'		3 Sided Structure	20		2.8	801.14	801.09	75	A	6.5	1	71.9						2							CV 020-046-53.30	

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	RECOMMENDED FOR APPROVAL: _____	DESIGN ENGINEER	DATE	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	HORIZONTAL SCALE N/A	BRIDGE FILE
	DESIGNED: JWG	DRAWN: BKM			VERTICAL SCALE N/A	DESIGNATION 1900050
	CHECKED: JCS	CHECKED: JWG			SURVEY BOOK	SHEET 163 OF 271
					CONTRACT R-42452	PROJECT 1900050

**STRUCTURE DATA**

6547

6547

## PIPE MATERIAL SELECTION

	STRUCTURE NUMBER																							
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	27A	28	29	30	31	32	
PIPE TYPE/SHAPE		3/Circular			3/Circular		3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	3/Circular	1/Circular	3/Circular	10'x6' 3 Sided Structure	10'x6' 3 Sided Structure	
SMOOTH PIPE SIZE	18"	15"	24"	24"	15"	30"	18"	15"	15"	18"	18"	18"	18"	18"	24"	15"	15"	15"	24"	24"	24"	24"	24"	
CORRUGATED PIPE SIZE																								
RCP/RCHP (S)		II			II		II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		1000			1000		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
CORRUGATED PE PIPE, TYPE S (S)					Ok						Ok				Ok									
CORRUGATED POLYPROPYLENE PIPE																								
SMOOTH WALL PE PIPE (S)/ MAXIMUM DR																								
PROFILE WALL PVC PIPE (S)																								
SMOOTH WALL PVC PIPE (S)																	Ok/26.00							
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)					Ok						Ok			Ok			Ok				Ok			
FULLY BIT. PAVED AND LINES (S) (LS)																								
ZINC COATED (C)																								
ZINC COATED W/ BPI (C)																								
ALUM COATED TYPE 2 (C)																								
ALUM. COATED TYPE 2 W/ BPI (C) (S) IA, OR IIA																								
POLYMER PRECOATED GALVANIZED (C)																								
POLYMER PRECOATED GALVANIZED (S) IA OR IIA																								
CORRUGATED ALUM ALLOW PIPE (C)																								
CORRUGATED ALUM ALLOWY PIPE W/ BPI (C)																								
STR. PLATE ALUMINUM ALLOY PIPE (C)																								
STR. PLATE ALUMINUM ALLOY PIPE W/ BPI (C)																								
STR. PLATE STEEL PIPE (C)																								
STR. PLATE STEEL PIPE W/ CFP (C)																								

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JWG DRAWN: BKM CHECKED: JCS CHECKED: JWG	<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>  <b>PIPE MATERIAL SELECTION TABLE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">HORIZONTAL SCALE</td> <td style="width: 50%;">BRIDGE FILE</td> </tr> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">DESIGNATION</td> </tr> <tr> <td style="text-align: center;">1"=10'</td> <td style="text-align: center;">1900050</td> </tr> <tr> <td style="text-align: center;">SURVEY BOOK</td> <td style="text-align: center;">SHEET</td> </tr> <tr> <td style="text-align: center;">164</td> <td style="text-align: center;">1 OF 1 271</td> </tr> <tr> <td style="text-align: center;">CONTRACT</td> <td style="text-align: center;">PROJECT</td> </tr> <tr> <td style="text-align: center;">R-42452</td> <td style="text-align: center;">1900050</td> </tr> </table>	HORIZONTAL SCALE	BRIDGE FILE	N/A	DESIGNATION	1"=10'	1900050	SURVEY BOOK	SHEET	164	1 OF 1 271	CONTRACT	PROJECT	R-42452	1900050
HORIZONTAL SCALE	BRIDGE FILE															
N/A	DESIGNATION															
1"=10'	1900050															
SURVEY BOOK	SHEET															
164	1 OF 1 271															
CONTRACT	PROJECT															
R-42452	1900050															

## GUARDRAIL SUMMARY TABLE

LOCATION		MGS W-BEAM GUARDRAIL LENGTH														CURVED W-BEAM GUARDRAIL SYSTEM						REMARKS			
FROM STATION	TO STATION	LEFT	STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.	HEIGHT TRANSITION	GUARDRAIL TRANSITION WITH CURB	GUARDRAIL TRANSITION WITHOUT CURB	STRUCTURE TOP-MOUNTED POST	CABLE TERMINAL ANCHOR	SHOP CURVED AT _____ FT. SPA.	LONG SPAN GUARDRAIL	W-BEAM GUARDRAIL STANDARD POST AT 6 FT 3 IN SPA.	GUARDRAIL END TREATMENT TYPE OS	GUARDRAIL END TREATMENT TYPE WS	GUARDRAIL TRANSITION TYPE TGB	HAND DIG GUARDRAIL POST HOLE	TERMINAL SYSTEM		CONNECTOR SYSTEM		GUARDRAIL REMOVE	GUARDRAIL RESET	IMPACT ATTENUATOR TYPE _____
LINE "D"		LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	EACH	LFT	EACH	EACH	EACH	EACH	EACH	EACH	TYPE	EACH	TYPE	EACH	LFT	LFT	EACH
TOTALS		0.00				0								0						0			0.00	0.00	

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JWG DRAWN: BKM CHECKED: JCS CHECKED: JWG	<b>INDIANA</b> DEPARTMENT OF TRANSPORTATION  <b>GUARDRAIL SUMMARY TABLE</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>HORIZONTAL SCALE</td> <td>BRIDGE FILE</td> </tr> <tr> <td>N/A</td> <td>DESIGNATION</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>1900050</td> </tr> <tr> <td>1"=10'</td> <td></td> </tr> <tr> <td>SURVEY BOOK</td> <td>SHEET</td> </tr> <tr> <td></td> <td>165 OF 271</td> </tr> <tr> <td>CONTRACT</td> <td>PROJECT</td> </tr> <tr> <td>R-42452</td> <td>1900050</td> </tr> </table>	HORIZONTAL SCALE	BRIDGE FILE	N/A	DESIGNATION	VERTICAL SCALE	1900050	1"=10'		SURVEY BOOK	SHEET		165 OF 271	CONTRACT	PROJECT	R-42452	1900050
HORIZONTAL SCALE	BRIDGE FILE																	
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CONTRACT	PROJECT																	
R-42452	1900050																	



