

230+00

231+00

232+00

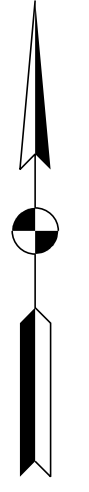
233+00

234+00

235+00

236+00

237+00



Plot: 6/3/2021 8:43 AM \$AM\_PMS

- A MGS Guardrail Transition, Without Curb
- B MGS W-Beam Guardrail, 6'-3" Spacing
- C MGS Height Transition
- D Curved W-Beam Guardrail Connector System (Type 2)
- E OS End Treatment, 31"
- F Curved W-Beam Guardrail Terminal System (Type 2)

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	XX/XX/2020	DATE
DESIGNED: KG	4/1/2021	DRAWN: KG	4/1/2021
CHECKED: JS	4/1/2021	CHECKED: JS	4/1/2021

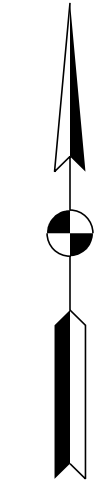
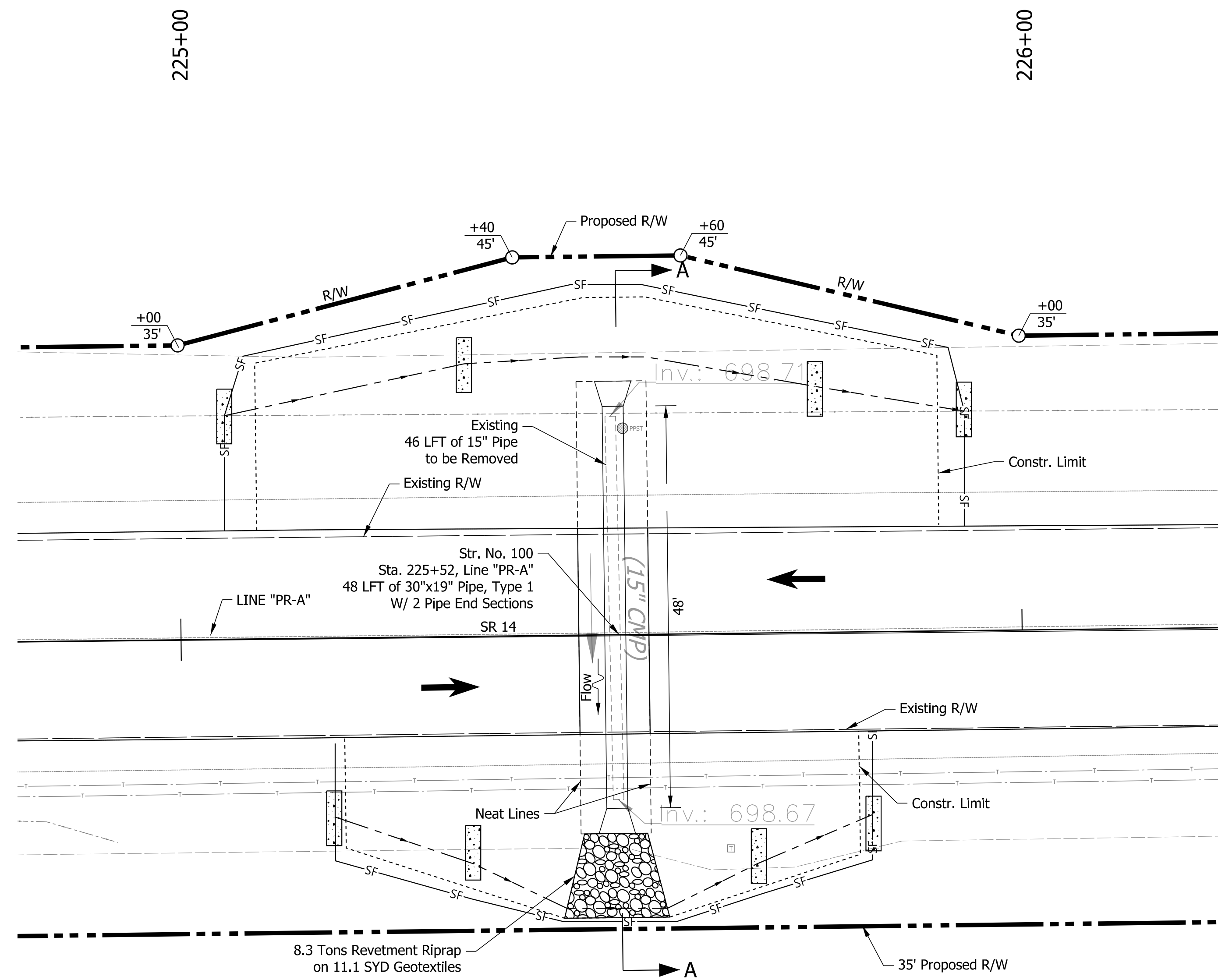
INDIANA  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAIL

SCALE 1" = 25'	BRIDGE FILE \$BRIDGE_FILES\$
	DESIGNATION 1800182
	SHEETS 53 of 124
CONTRACT RS-41443	PROJECT 1800182

File: c:\pw\_working\vochner-slc\jsherrick\d0130095\Sht Guardrail.dgn  
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**REINFORCED CONCRETE ELLIPTICAL PIPE**

SPAN: 30", RISE: 19"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	23.21	Acres
Q100 Discharge	18.38	CFS
Q25 Discharge	14.57	CFS
Q100 Water Surface Elevation (Outlet Depth)	1.02	Ft
Design Roadway Serviceability Elevation	701.81	Ft

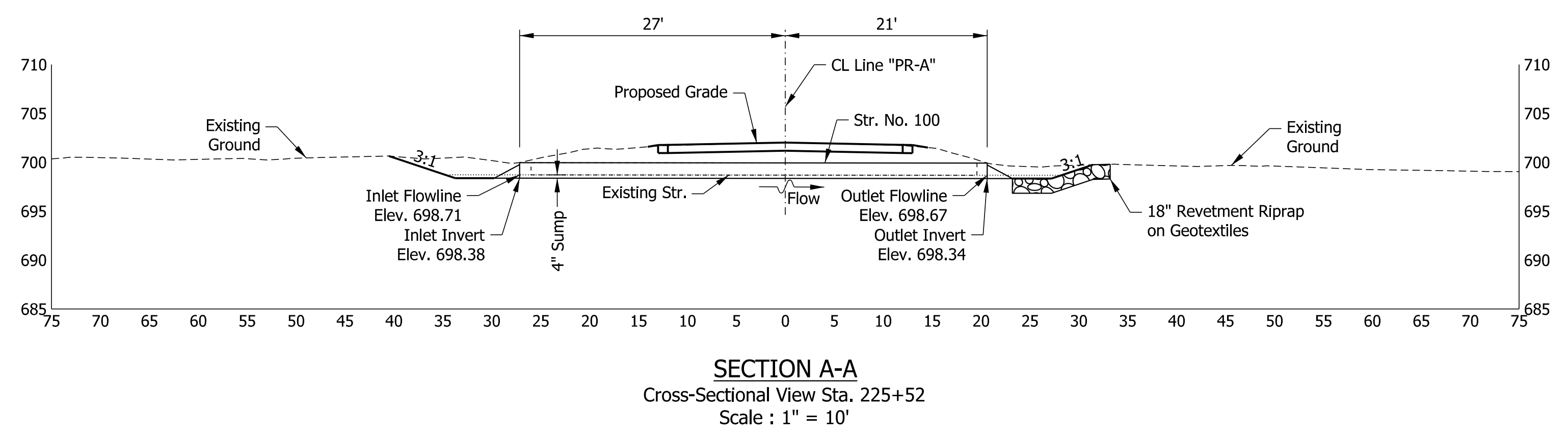
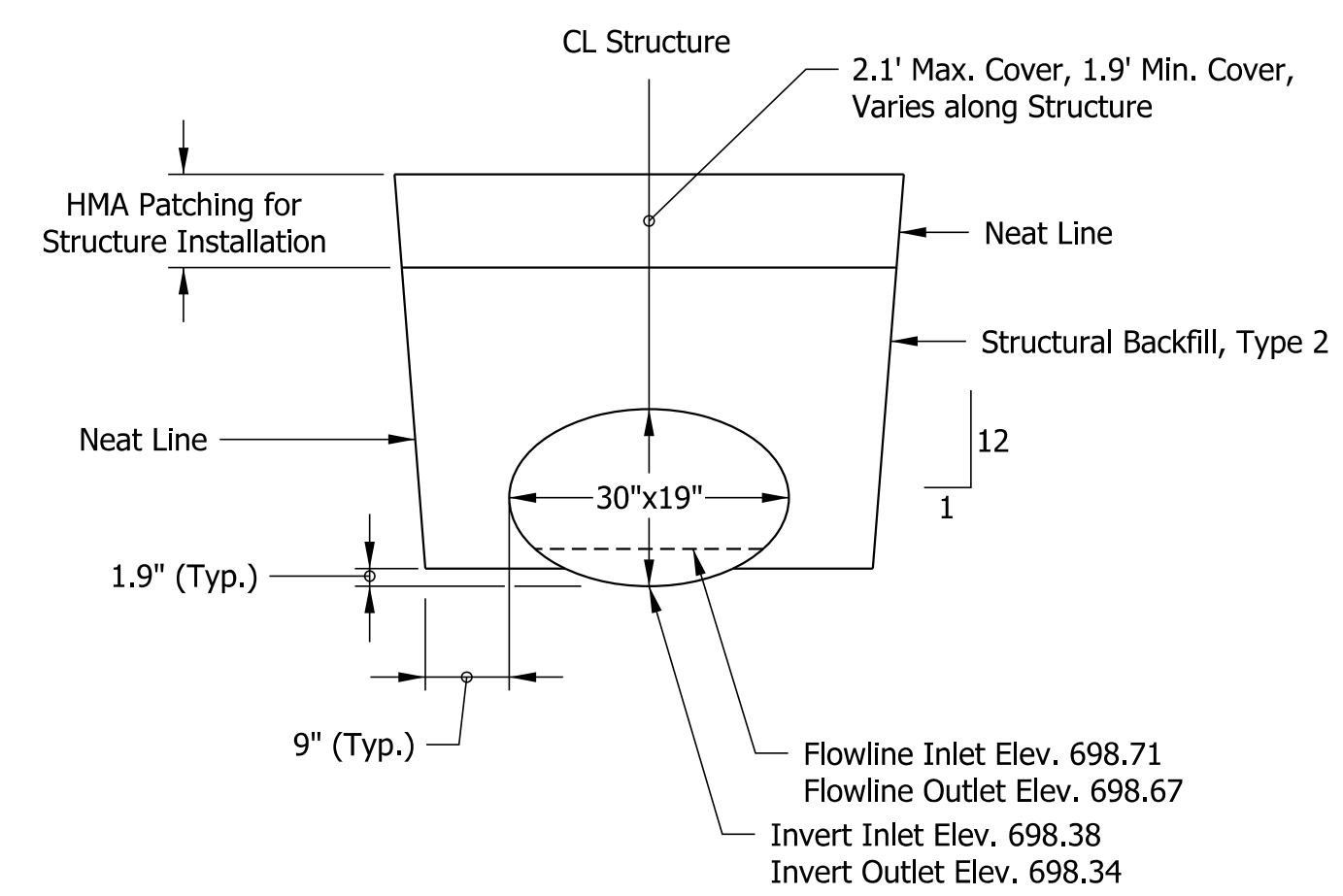
Proposed Structure 30"x19" RCEP

Q100 Proposed Headwater Elevation	702.05*	Ft
Q Prior to Overtopping	17.15	CFS
Q25 Proposed Headwater Elevation	701.38	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.32	Ft
Proposed Culvert Velocity (Q25)	6.19	Ft/s
Proposed Outlet Riprap Size	Revetment	

Existing Structure 15" CMP

Q100 Existing Headwater Elevation	702.15*	Ft
Q Prior to Overtopping	6.25	CFS
Q25 Existing Headwater Elevation	702.12*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.42	Ft

\*Overtopping



- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

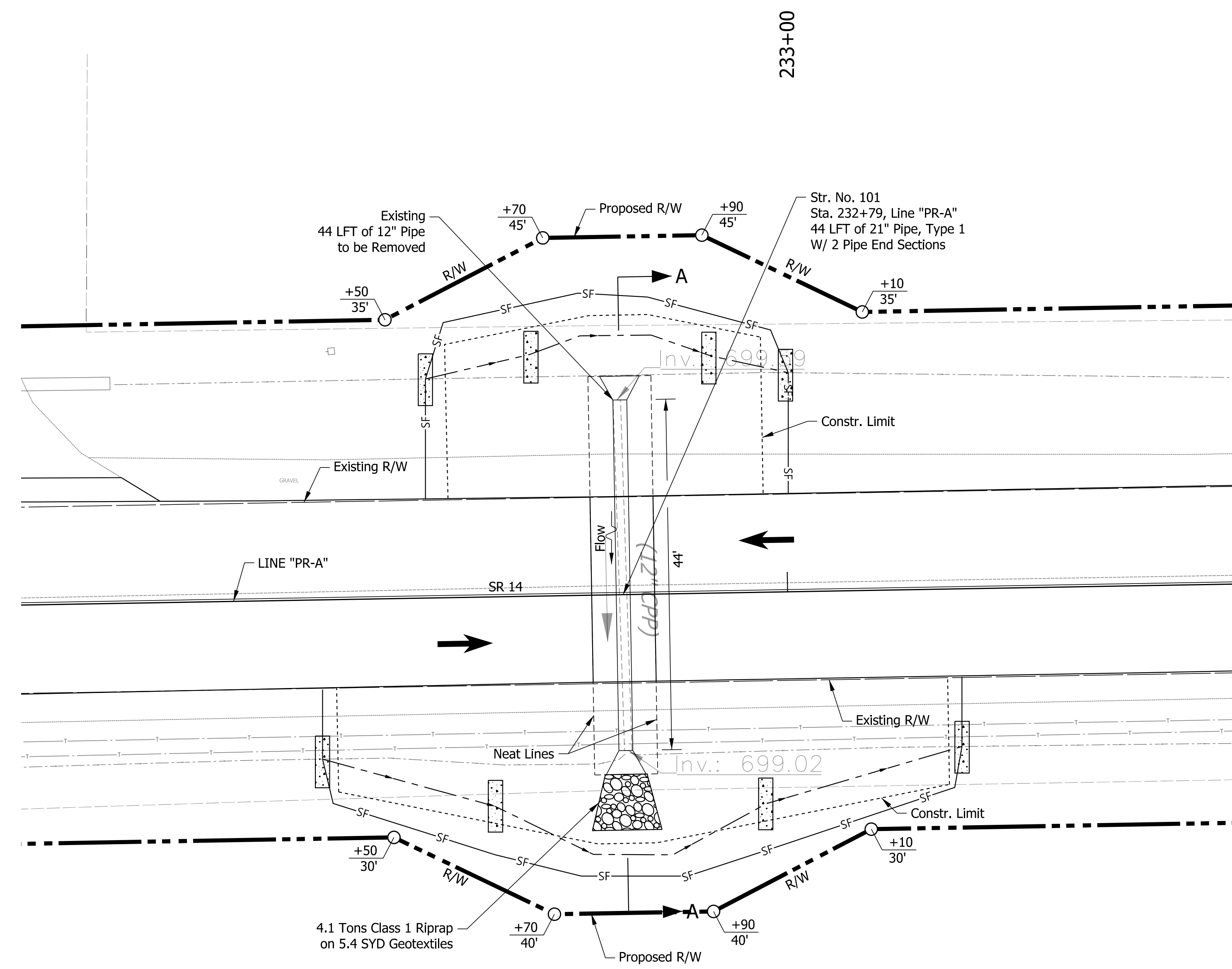
INDIANA  
 DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS  
 STR. NO. 100

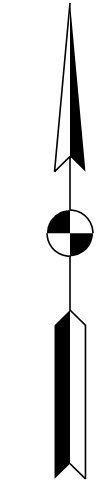
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AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	54 of 124
CONTRACT	PROJECT
RS-41443	1800182



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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



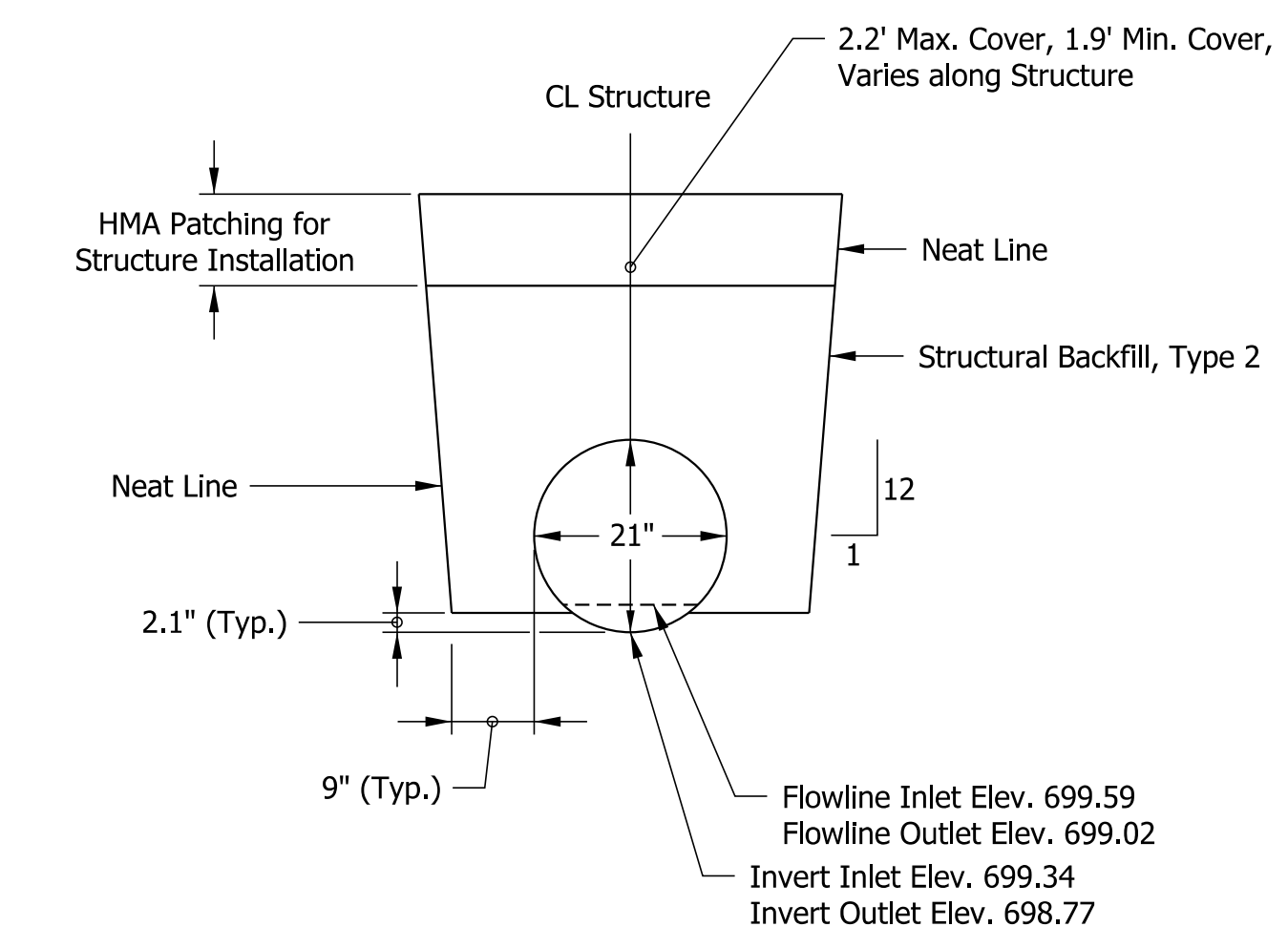
**REINFORCED CONCRETE PIPE**

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 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

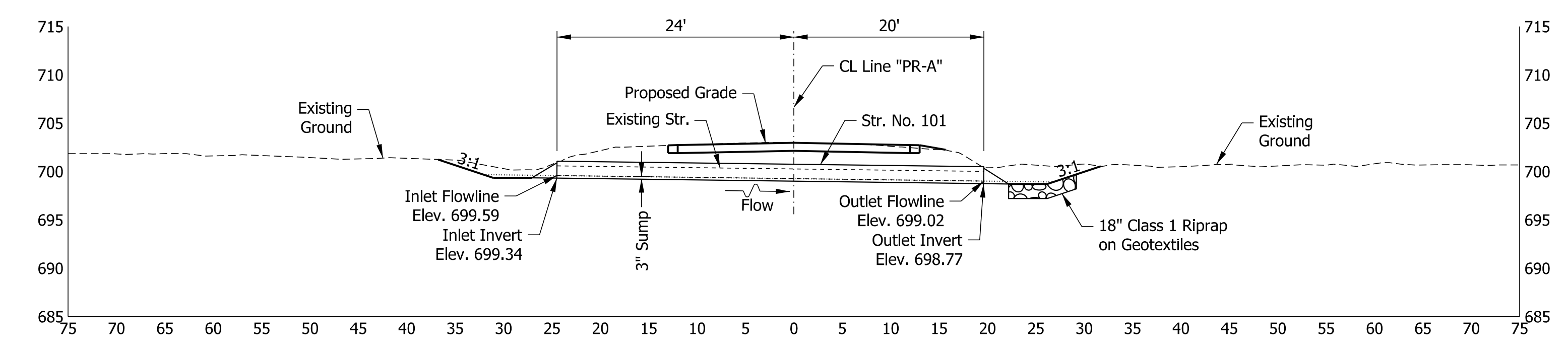
**HYDRAULIC DATA**

Drainage Area	27.01	Acres
Q100 Discharge	19.74	CFS
Q25 Discharge	15.52	CFS
Q100 Water Surface Elevation (Tailwater)	1.38	Ft
Design Roadway Serviceability Elevation	702.79	Ft
Proposed Structure 21" RCP		
Q100 Proposed Headwater Elevation	703.06*	Ft
Q Prior to Overtopping	16.55	CFS
Q25 Proposed Headwater Elevation	702.69	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.09	Ft
Proposed Culvert Velocity (Q25)	7.35	Ft/s
Proposed Outlet Riprap Size	Class 1	
Existing Structure 12" CPP		
Q100 Existing Headwater Elevation	703.15*	Ft
Q Prior to Overtopping	4.10	CFS
Q25 Existing Headwater Elevation	703.12*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.18	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 232+79  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

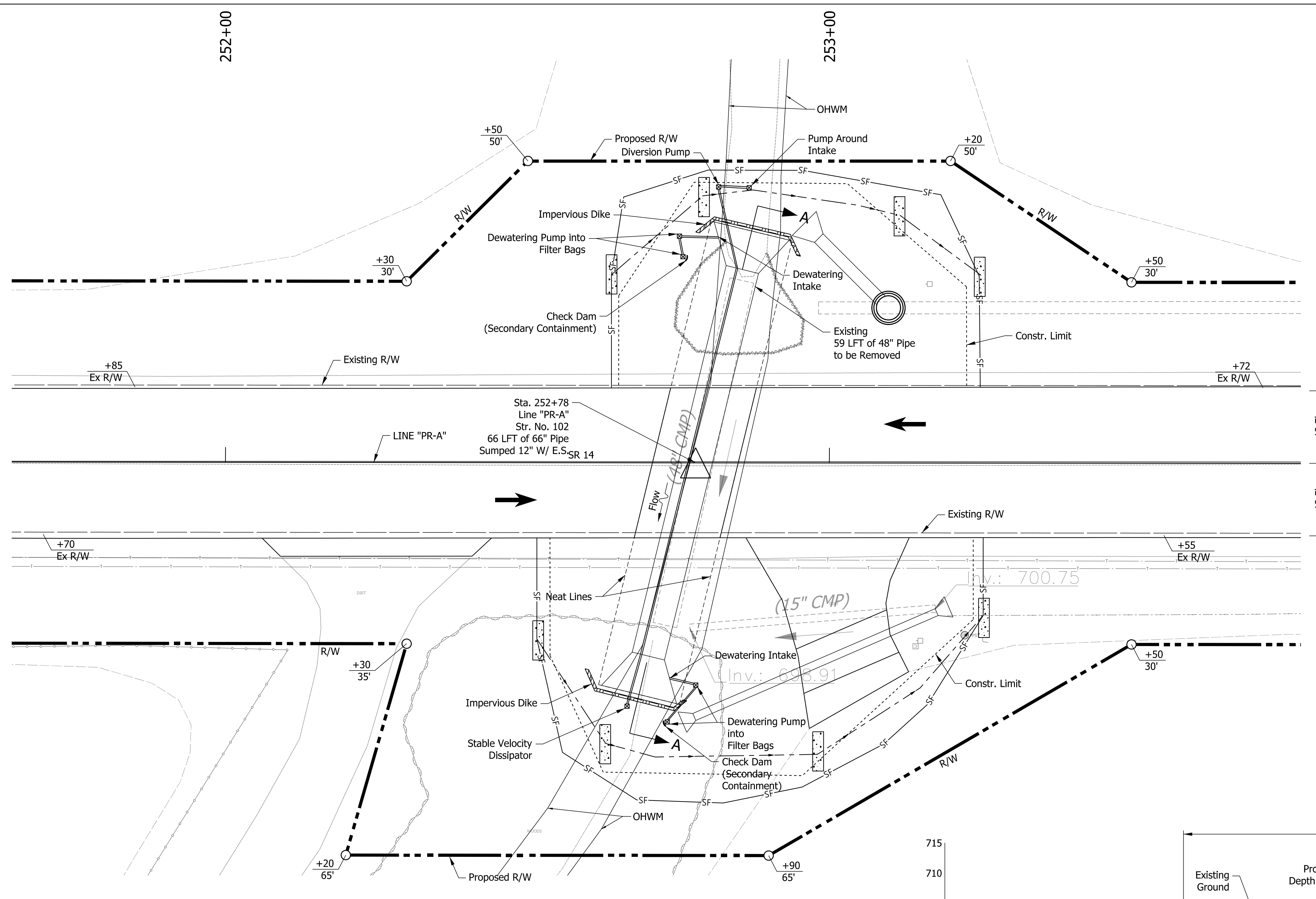
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**STRUCTURE DETAILS**  
 STR. NO. 101

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	55 of 124
CONTRACT	PROJECT
RS-41443	1800182

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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'

**REINFORCED CONCRETE PIPE**

SPAN: 60", RISE: 60"  
 SKEW: 20°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

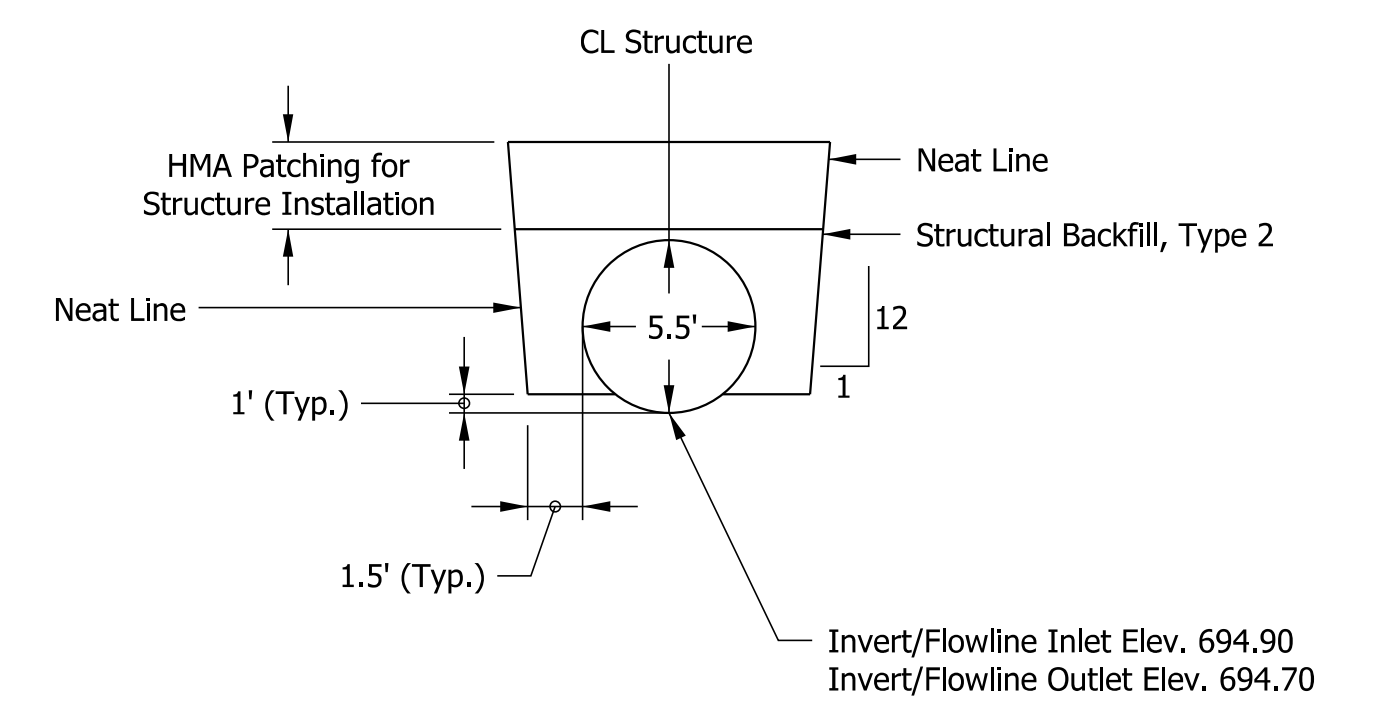
Drainage Area	417.2	Acres
Q100 Discharge	155.0	CFS
Q25 Discharge	N/A	CFS
Q100 Water Surface Elevation (Outlet Depth)	N/A	Ft
Design Roadway Serviceability Elevation	N/A	Ft

Proposed Structure 66" Circular Corrugated Pipe

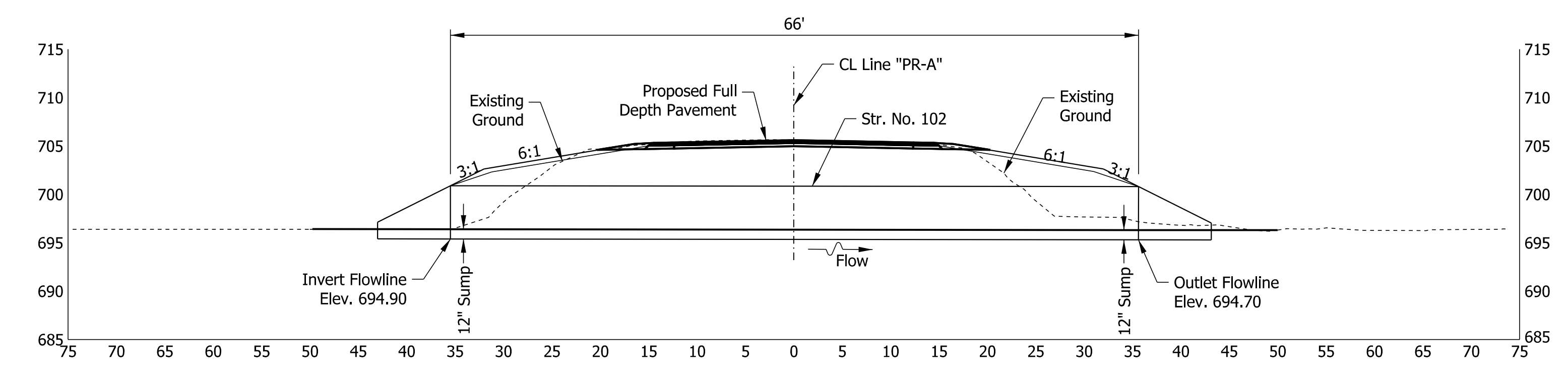
Waterway Area Below Q100 Elevation	17.90	Sq. Ft.
Q100 Existing Headwater Elevation	90.1	Ft
Backwater	2.69	Ft
Outlet Velocity (Q50)	8.21	Ft/s
Scour Protection	Class 1	

Existing Structure 54" CMP

Waterway Area Below Q100 Elevation	11.69	Sq. Ft.
Q100 Existing Headwater Elevation	94.67	Ft
Backwater	7.26	Ft
Outlet Velocity (Q50)	11.95	Ft/s
Scour Protection	N/A	



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: 1" = 10'



**SECTION A-A**  
Cross-Sectional View Sta. 252+78  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

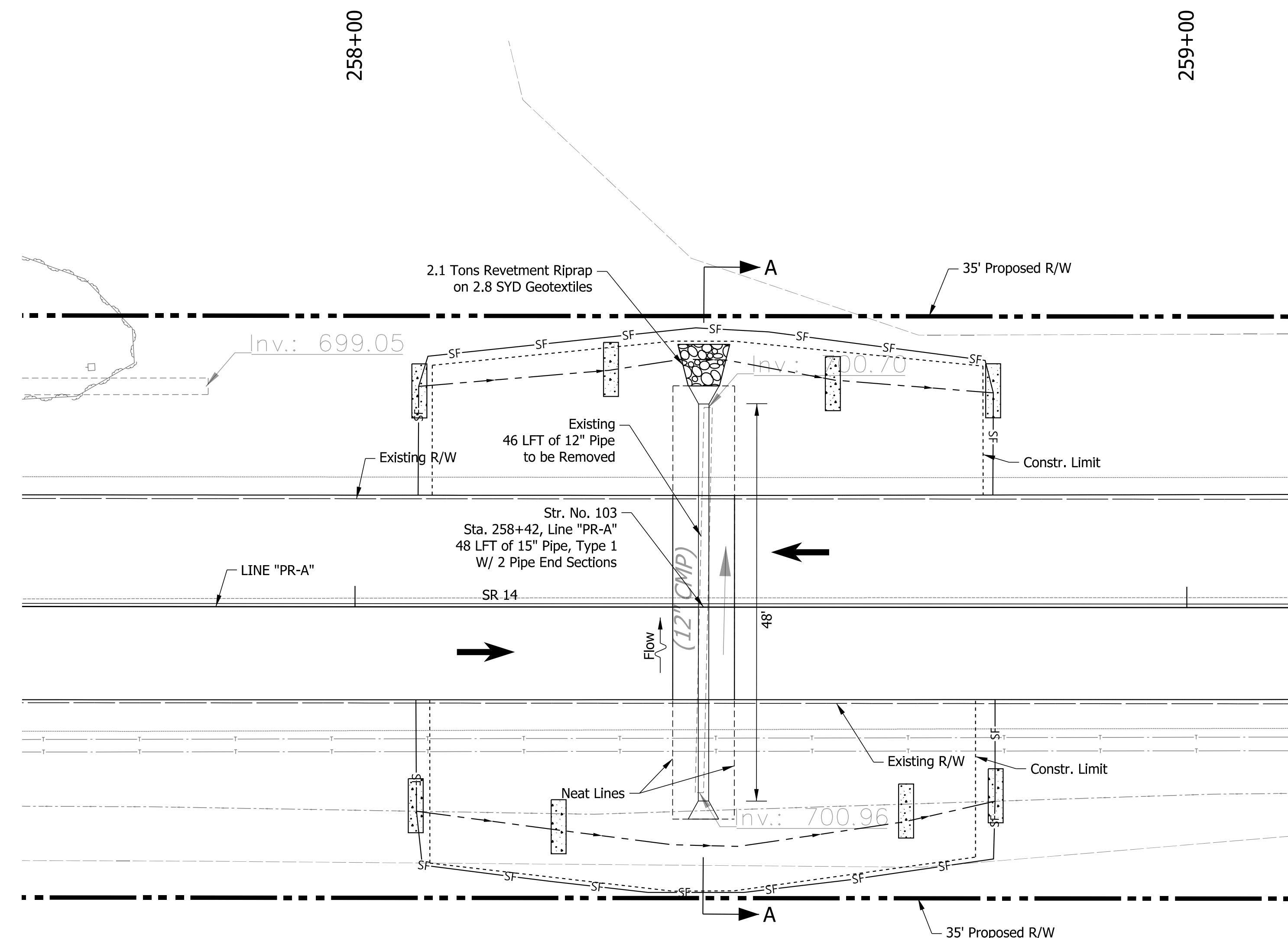
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	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**STRUCTURE DETAILS**  
**STR. NO. 102**

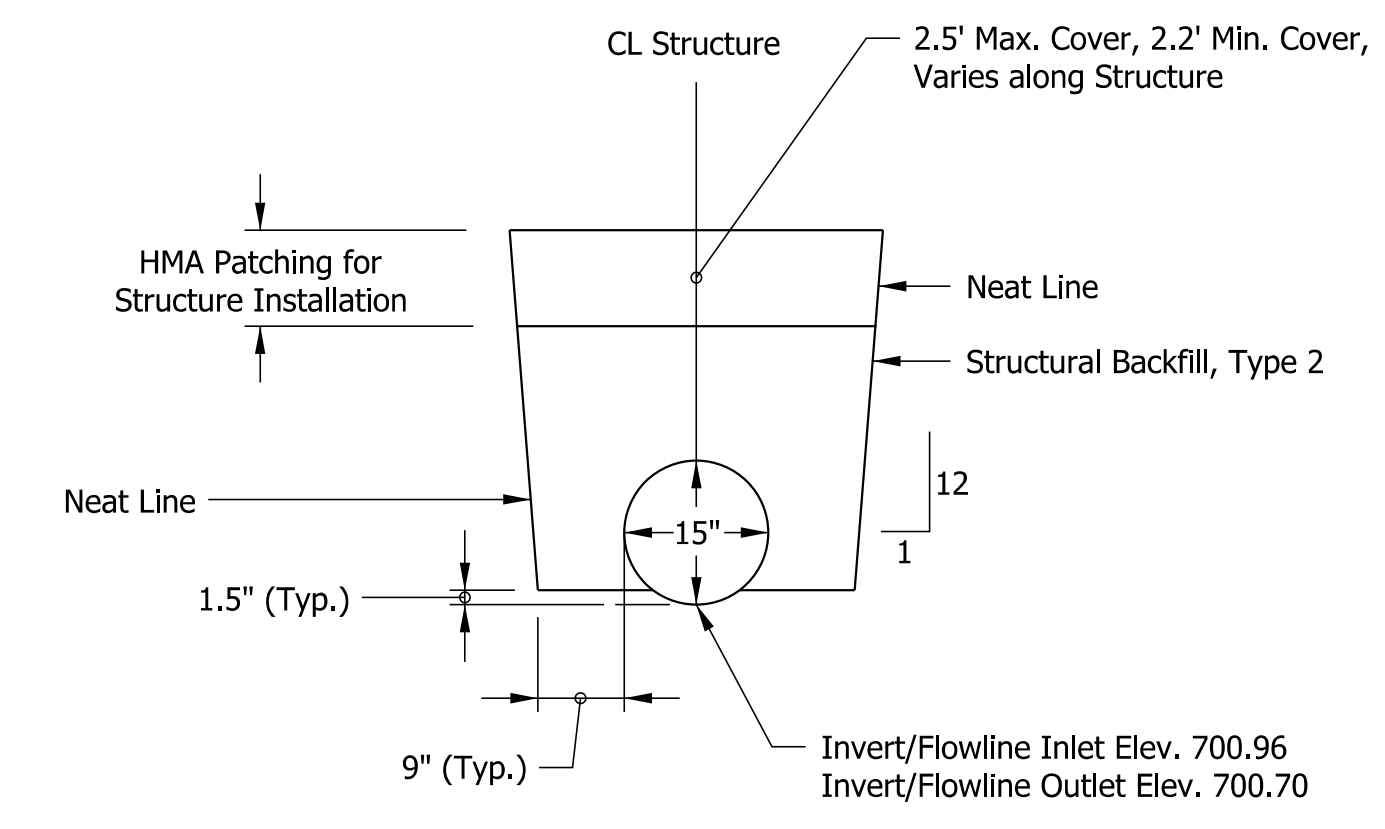
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AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	56 of 124
CONTRACT	PROJECT
RS-41443	1800182



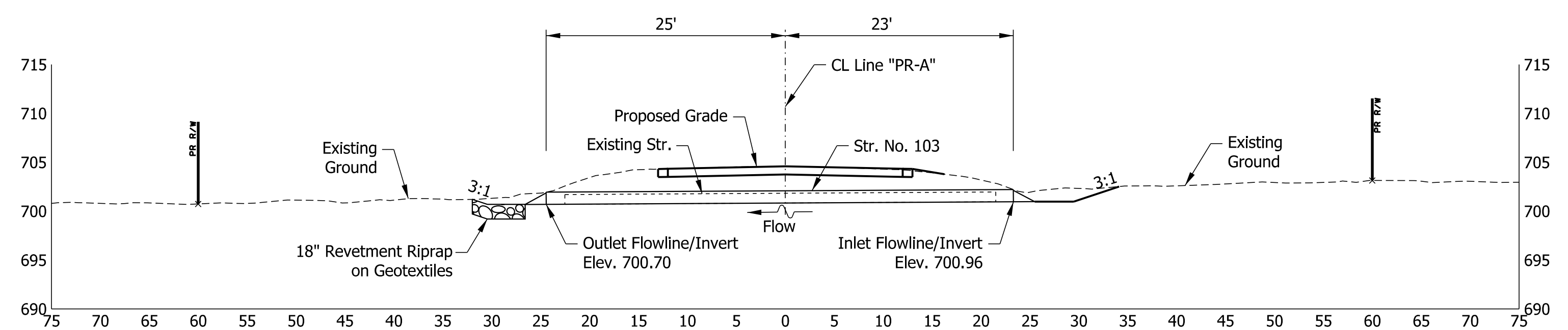
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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 258+42  
Scale : 1" = 10'

**REINFORCED CONCRETE PIPE**

SPAN: 15", RISE: 15"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	3.59	Acres
Q100 Discharge	6.74	CFS
Q25 Discharge	5.61	CFS
Q100 Water Surface Elevation (Outlet Depth)	0.86	Ft
Design Roadway Serviceability Elevation	704.28	Ft
Proposed Structure 15" RCP		
Q100 Proposed Headwater Elevation	702.99	Ft
Q Prior to Overtopping	10.06	CFS
Q25 Proposed Headwater Elevation	702.63	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	1.17	Ft
Proposed Culvert Velocity (Q25)	5.56	Ft/s
Proposed Outlet Riprap Size	Revetment	
Existing Structure 12" CMP		
Q100 Existing Headwater Elevation	704.54*	Ft
Q Prior to Overtopping	4.10	CFS
Q25 Existing Headwater Elevation	704.53*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.72	Ft

\*Overtopping

- Temporay Check Dam
- Silt Fence

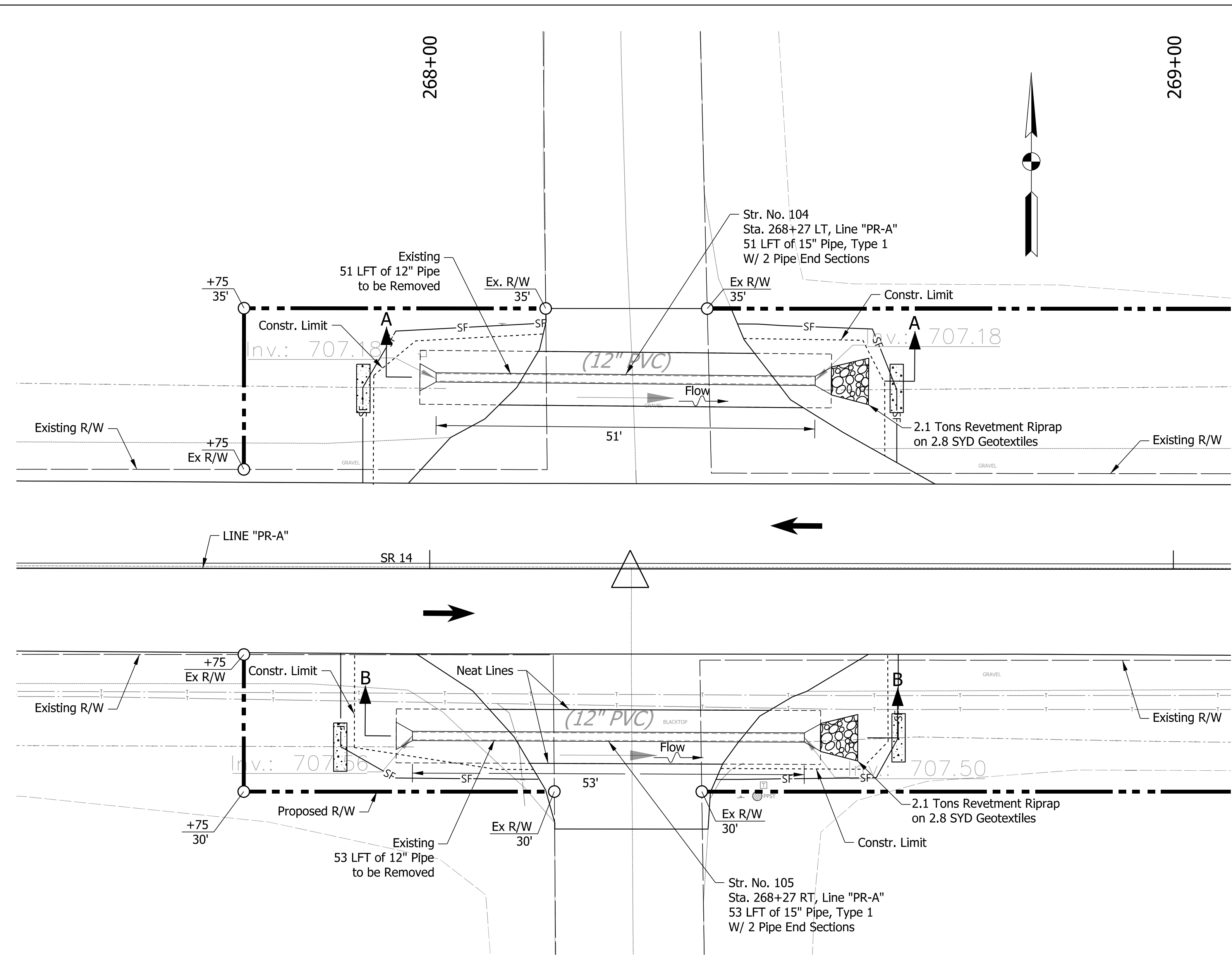
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DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

INDIANA  
 DEPARTMENT OF TRANSPORTATION

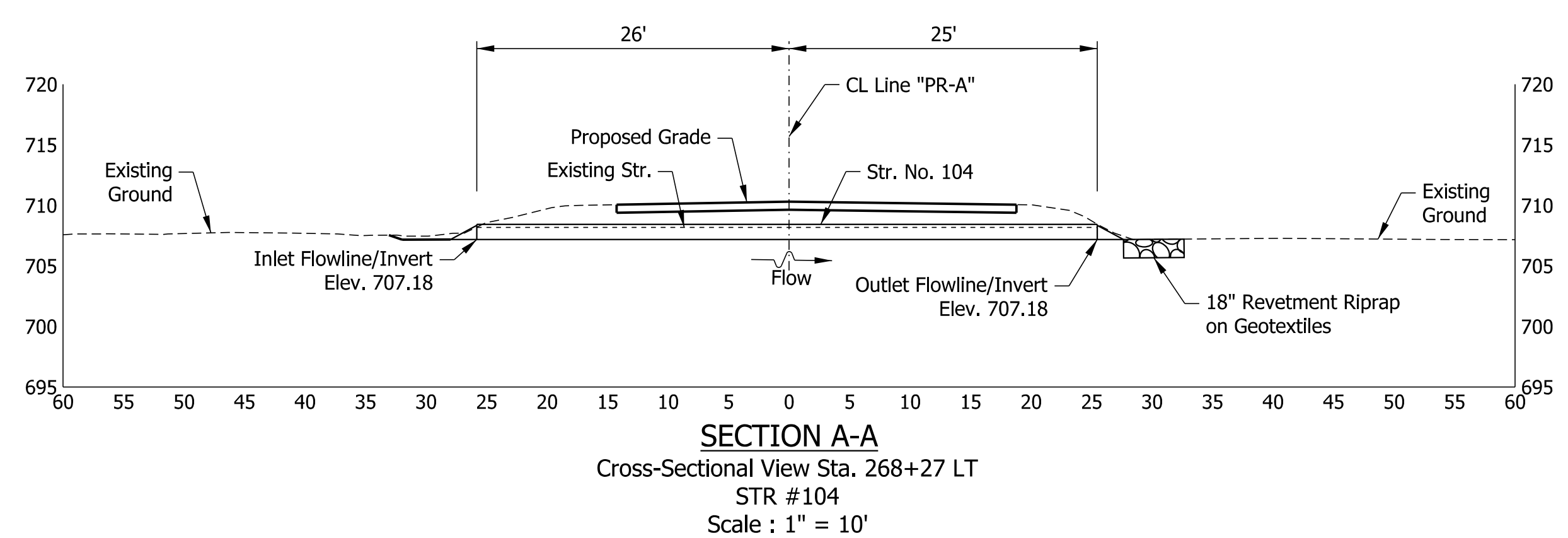
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**STR. NO. 103**

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	DESIGNATION
	1800182
	SHEETS
	57 of 124
CONTRACT	PROJECT
RS-41443	1800182

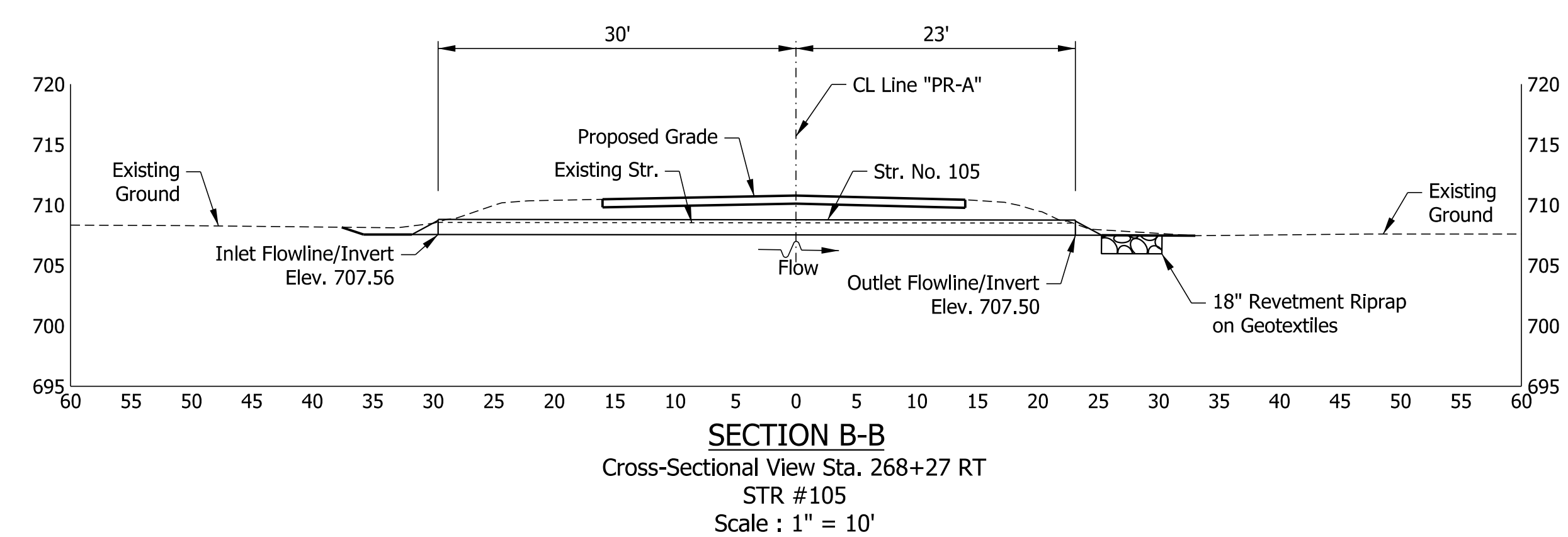
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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



**SECTION A-A**  
Cross-Sectional View Sta. 268+27 LT  
STR #104  
Scale : 1" = 10'



**SECTION B-B**  
Cross-Sectional View Sta. 268+27 RT  
STR #105  
Scale : 1" = 10'

**REINFORCED CONCRETE PIPE (STR 104)**

SPAN: 15', RISE: 15"  
SKEW: 0°  
SR 14 OVER UNT  
PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	0.43	Acres
Q100 Discharge	1.06	CFS
Q25 Discharge	0.89	CFS
Q100 Water Surface Elevation (Outlet Depth)	0.55	Ft
Design Roadway Serviceability Elevation	710.11	Ft

**Proposed Structure 15" RCP**

Q100 Proposed Headwater Elevation	707.87	Ft
Q25 Proposed Headwater Elevation	707.82	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.14	Ft
Proposed Culvert Velocity (Q25)	1.86	Ft/s
Proposed Outlet Riprap Size	Revetment	

**Existing Structure 12" PVC**

Q100 Existing Headwater Elevation	707.95	Ft
Q25 Existing Headwater Elevation	707.88	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	0.22	Ft

**REINFORCED CONCRETE PIPE (STR 105)**

SPAN: 15', RISE: 15"  
SKEW: 0°  
SR 14 OVER UNT  
PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

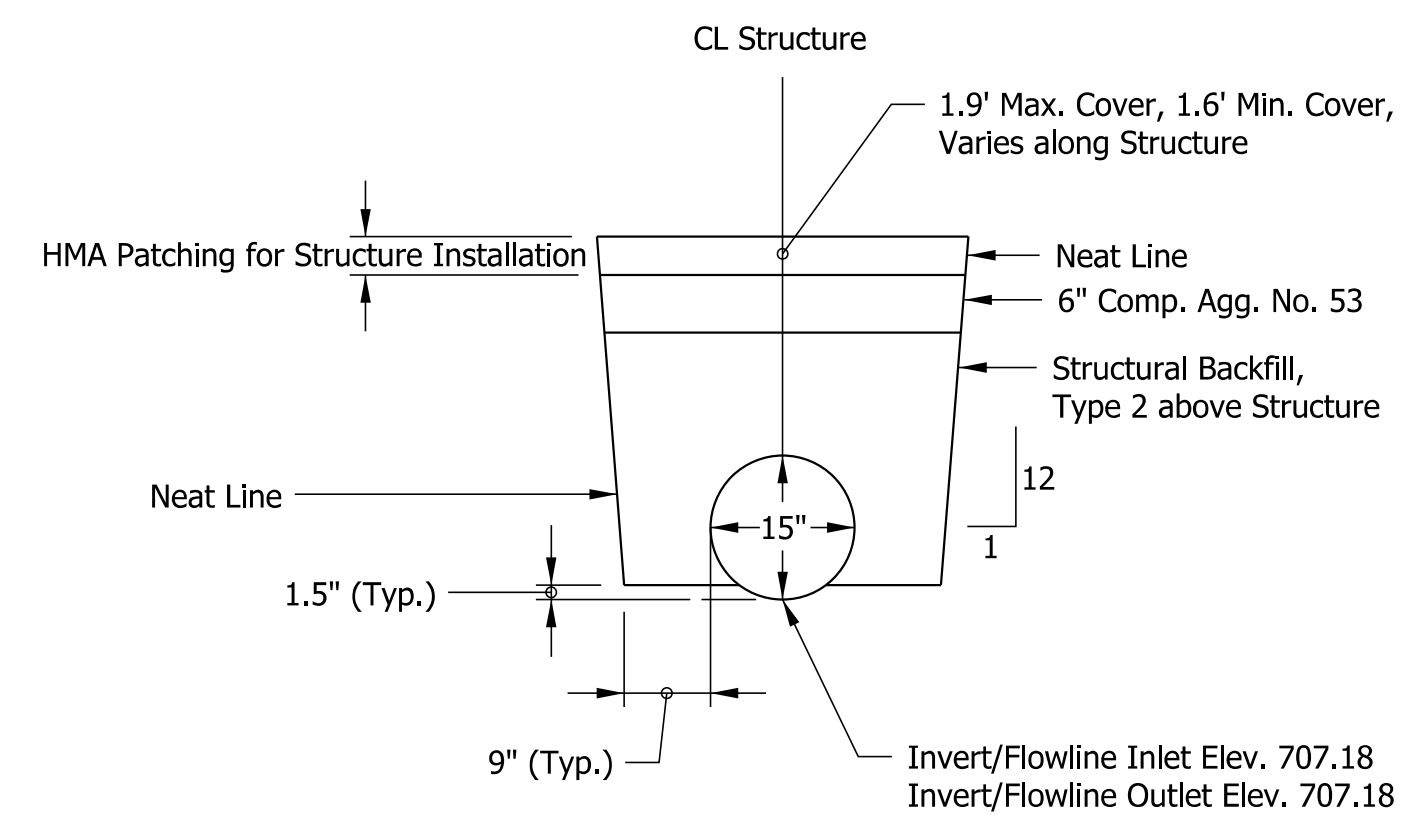
Drainage Area	0.45	Acres
Q100 Discharge	1.23	CFS
Q25 Discharge	1.03	CFS
Q100 Water Surface Elevation (Outlet Depth)	0.54	Ft
Design Roadway Serviceability Elevation	710.57	Ft

**Proposed Structure 15" RCP**

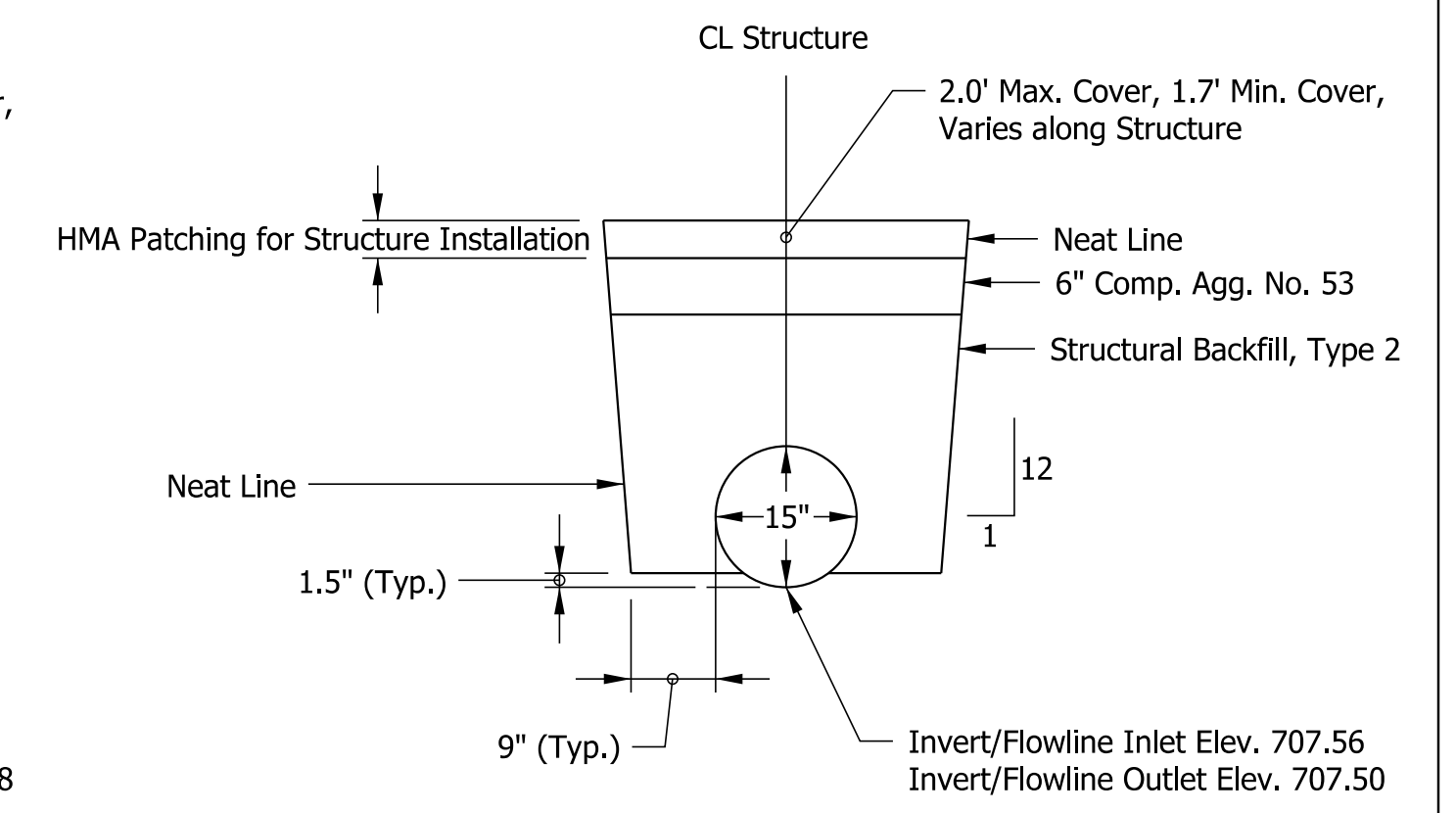
Q100 Proposed Headwater Elevation	708.26	Ft
Q25 Proposed Headwater Elevation	708.20	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.16	Ft
Proposed Culvert Velocity (Q25)	2.23	Ft/s
Proposed Outlet Riprap Size	Revetment	

**Existing Structure 12" PVC**

Q100 Existing Headwater Elevation	708.35	Ft
Q25 Existing Headwater Elevation	708.28	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	0.25	Ft



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
STR #104  
Elevation View, Scale: NTS



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
STR #105  
Elevation View, Scale: NTS

- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN: RLK 03/2021
CHECKED:	AH	03/2021	CHECKED: AH 03/2021

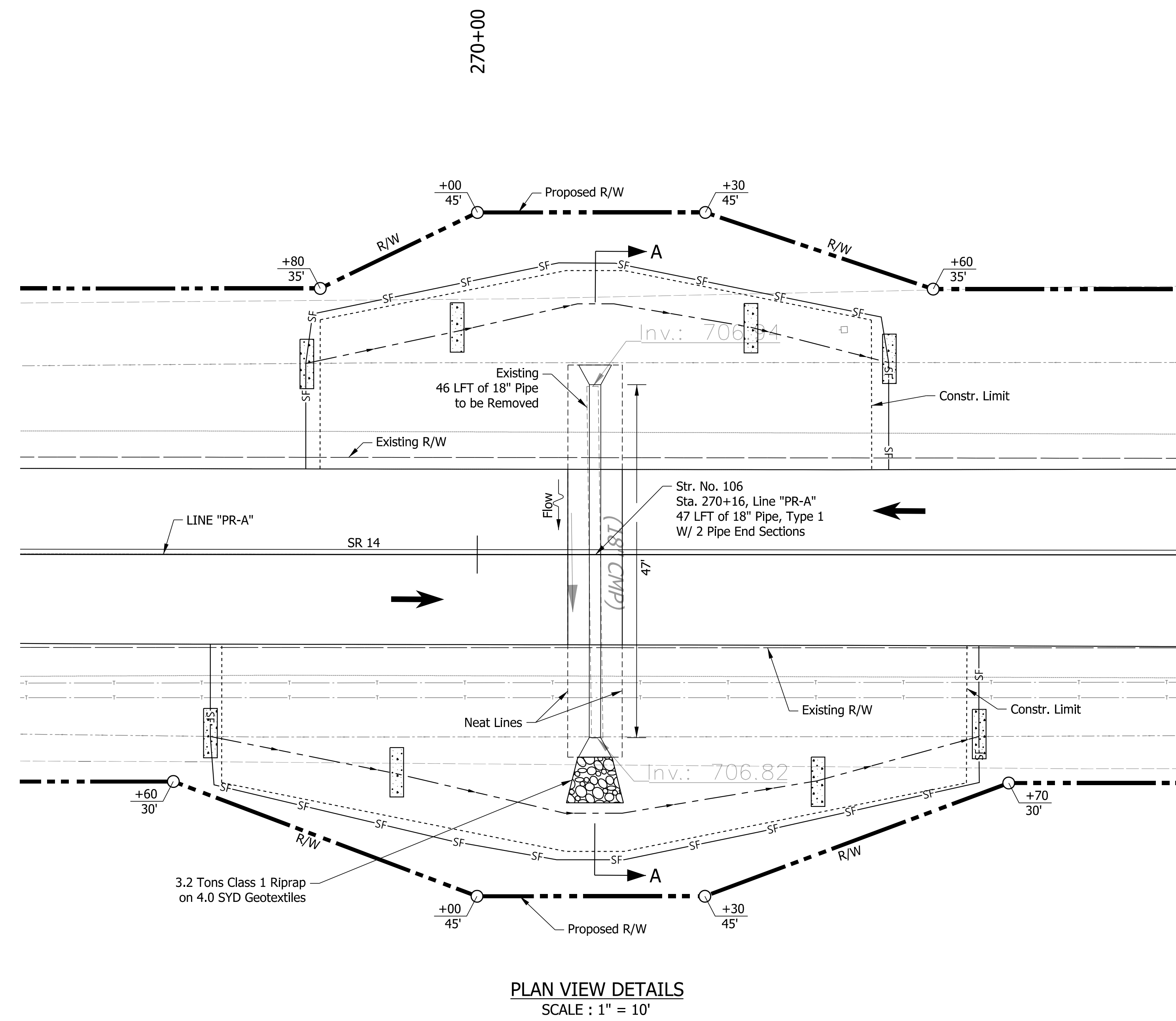
INDIANA  
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS  
STR. NO. 104 & 105

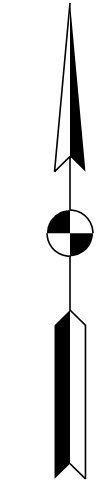
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DESIGNATION	1800182	SHEETS	58 of 124
CONTRACT	RS-41443	PROJECT	1800182



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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



**REINFORCED CONCRETE PIPE**  
 SPAN: 18", RISE: 18"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	12.92	Acres
Q100 Discharge	14.30	CFS
Q25 Discharge	11.43	CFS
Q100 Water Surface Elevation (Outlet Depth)	1.22	Ft
Design Roadway Serviceability Elevation	710.28	Ft

Proposed Structure 18" RCP

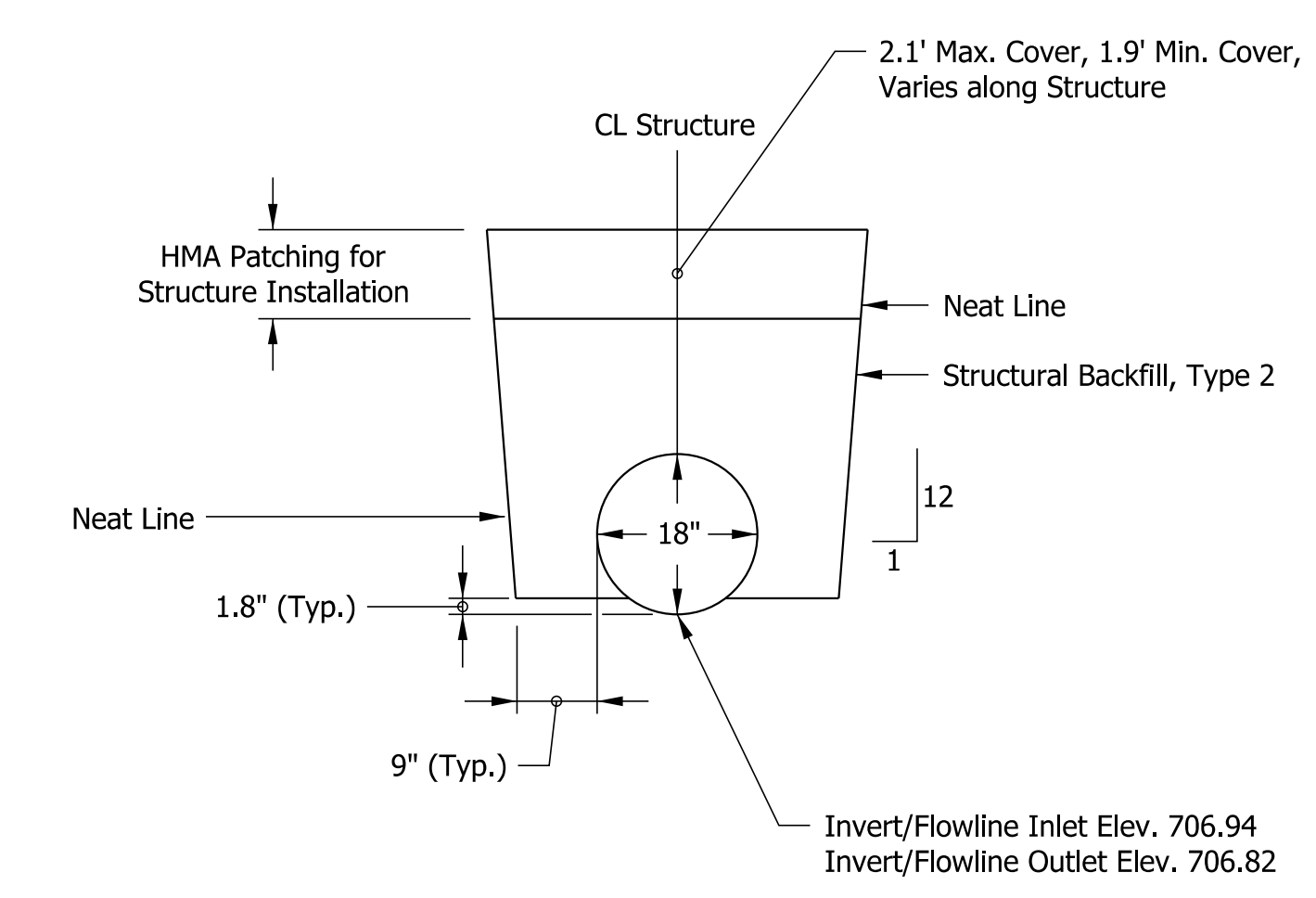
Q100 Proposed Headwater Elevation	710.50*	Ft
Q Prior to Overtopping	14.13	CFS
Q25 Proposed Headwater Elevation	709.68	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.34	Ft
Proposed Culvert Velocity (Q25)	7.08	Ft/s
Proposed Outlet Riprap Size	Class 1	

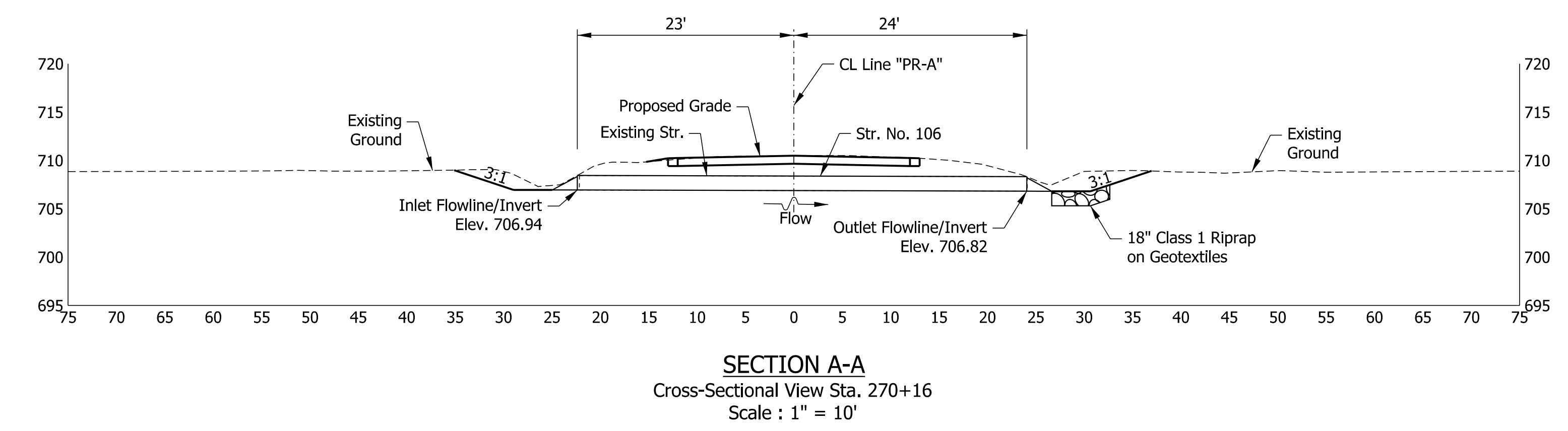
Existing Structure 18" CMP

Q100 Existing Headwater Elevation	710.56*	Ft
Q Prior to Overtopping	9.91	CFS
Q25 Existing Headwater Elevation	710.53*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.40	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 270+16  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

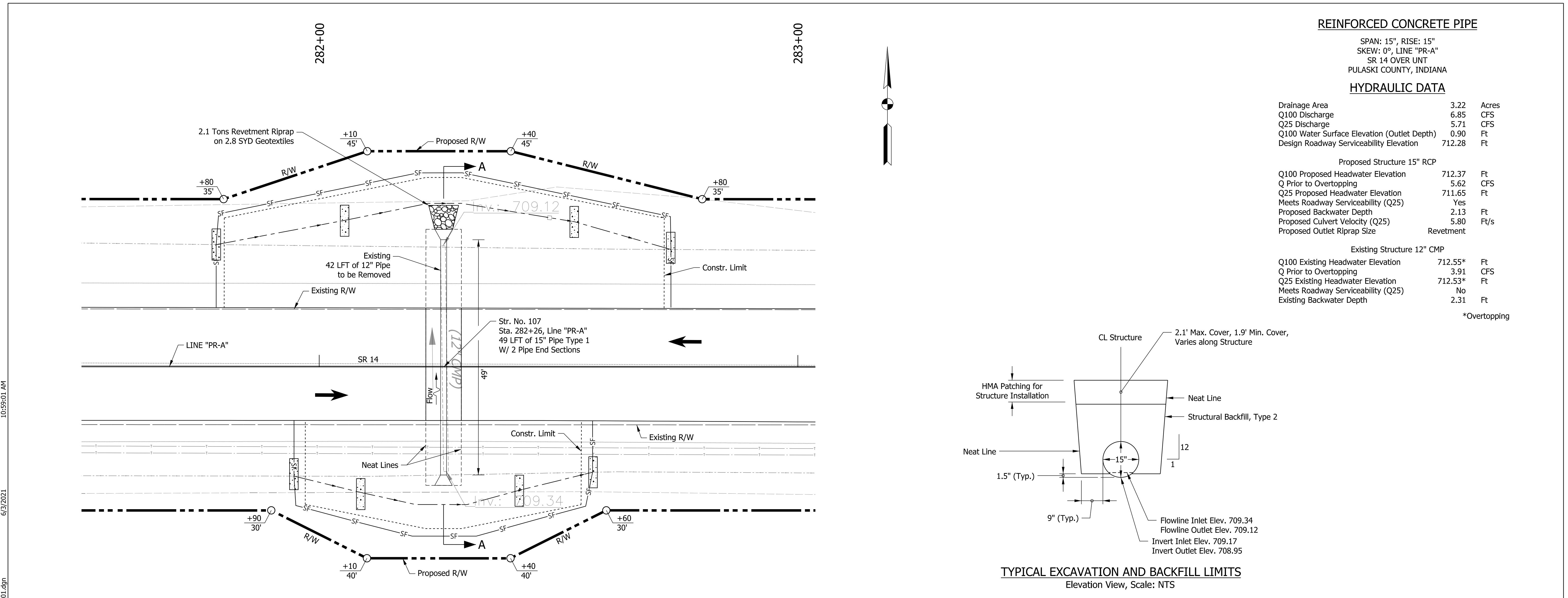
**STRUCTURE DETAILS**  
STR. NO. 106

SCALE	BRIDGE FILE
AS SHOWN	N/A
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	SHEETS
	59 of 124
CONTRACT	PROJECT
RS-41443	1800182

10:59:01 AM

6/3/2021

Plot: pw:\VSS\c-pw\nt\h\lochner.com\Lochner-SC\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Strcture Details\_10\_01.dgn



**PLAN VIEW DETAILS**  
SCALE : 1" = 10'

**REINFORCED CONCRETE PIPE**  
SPAN: 15", RISE: 15"  
SKEW: 0°, LINE "PR-A"  
SR 14 OVER UNT  
PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	3.22	Acres
Q100 Discharge	6.85	CFS
Q25 Discharge	5.71	CFS
Q100 Water Surface Elevation (Outlet Depth)	0.90	Ft
Design Roadway Serviceability Elevation	712.28	Ft

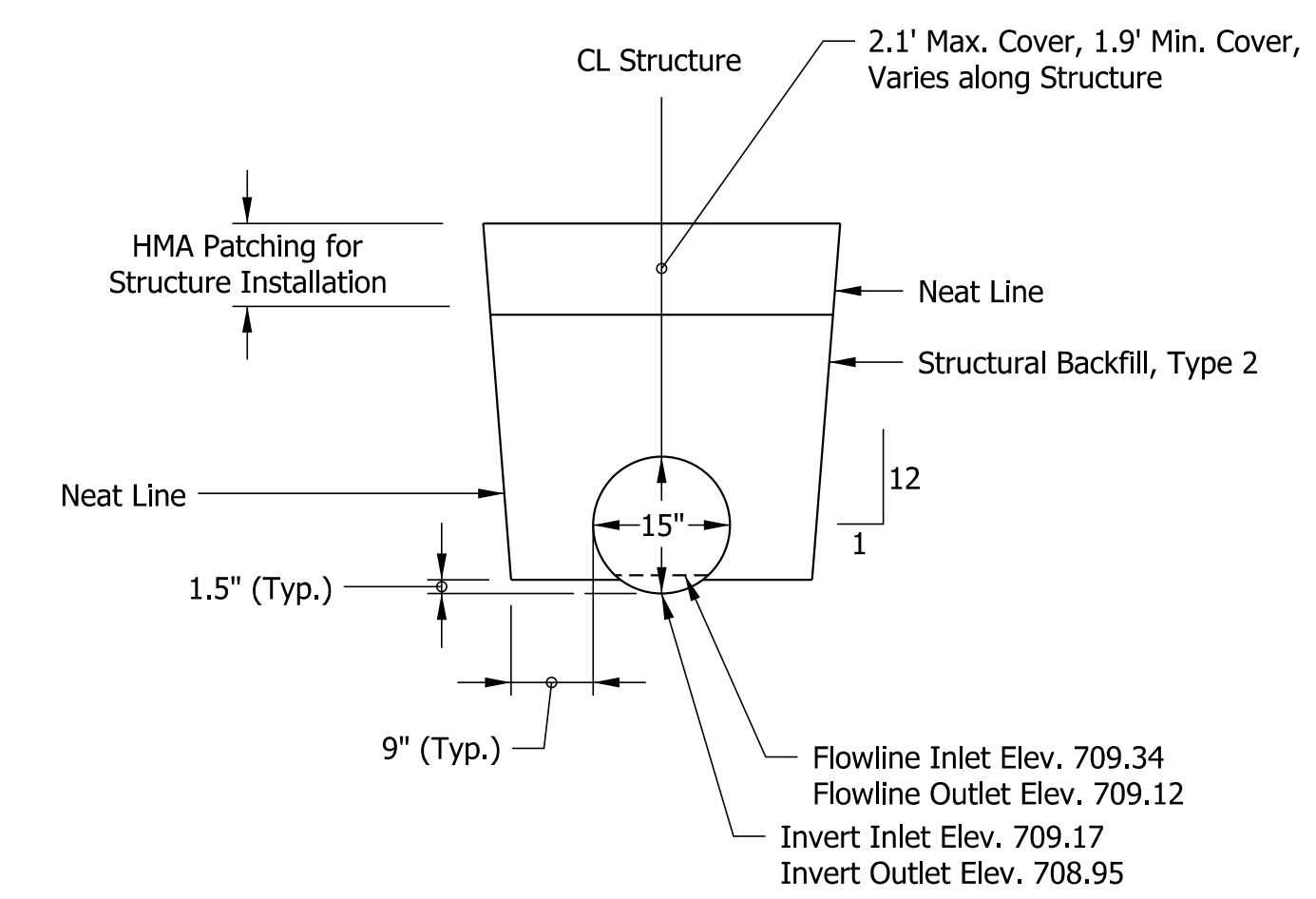
Proposed Structure 15" RCP

Q100 Proposed Headwater Elevation	712.37	Ft
Q Prior to Overtopping	5.62	CFS
Q25 Proposed Headwater Elevation	711.65	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.13	Ft
Proposed Culvert Velocity (Q25)	5.80	Ft/s
Proposed Outlet Riprap Size	Revetment	

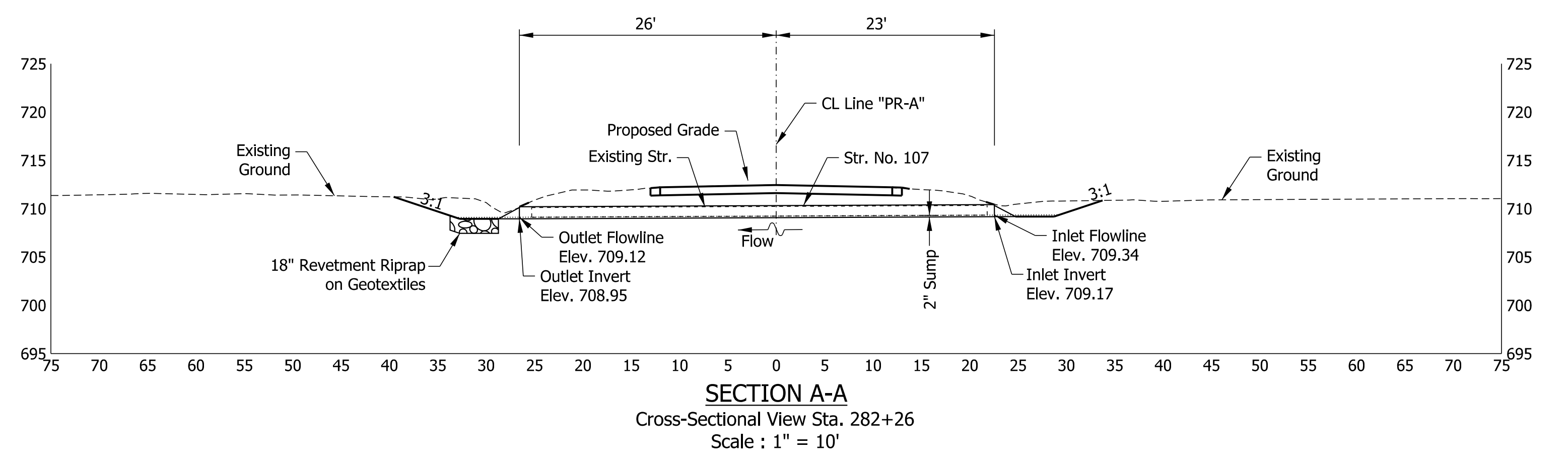
Existing Structure 12" CMP

Q100 Existing Headwater Elevation	712.55*	Ft
Q Prior to Overtopping	3.91	CFS
Q25 Existing Headwater Elevation	712.53*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.31	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 282+26  
Scale : 1" = 10'

- Temporay Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

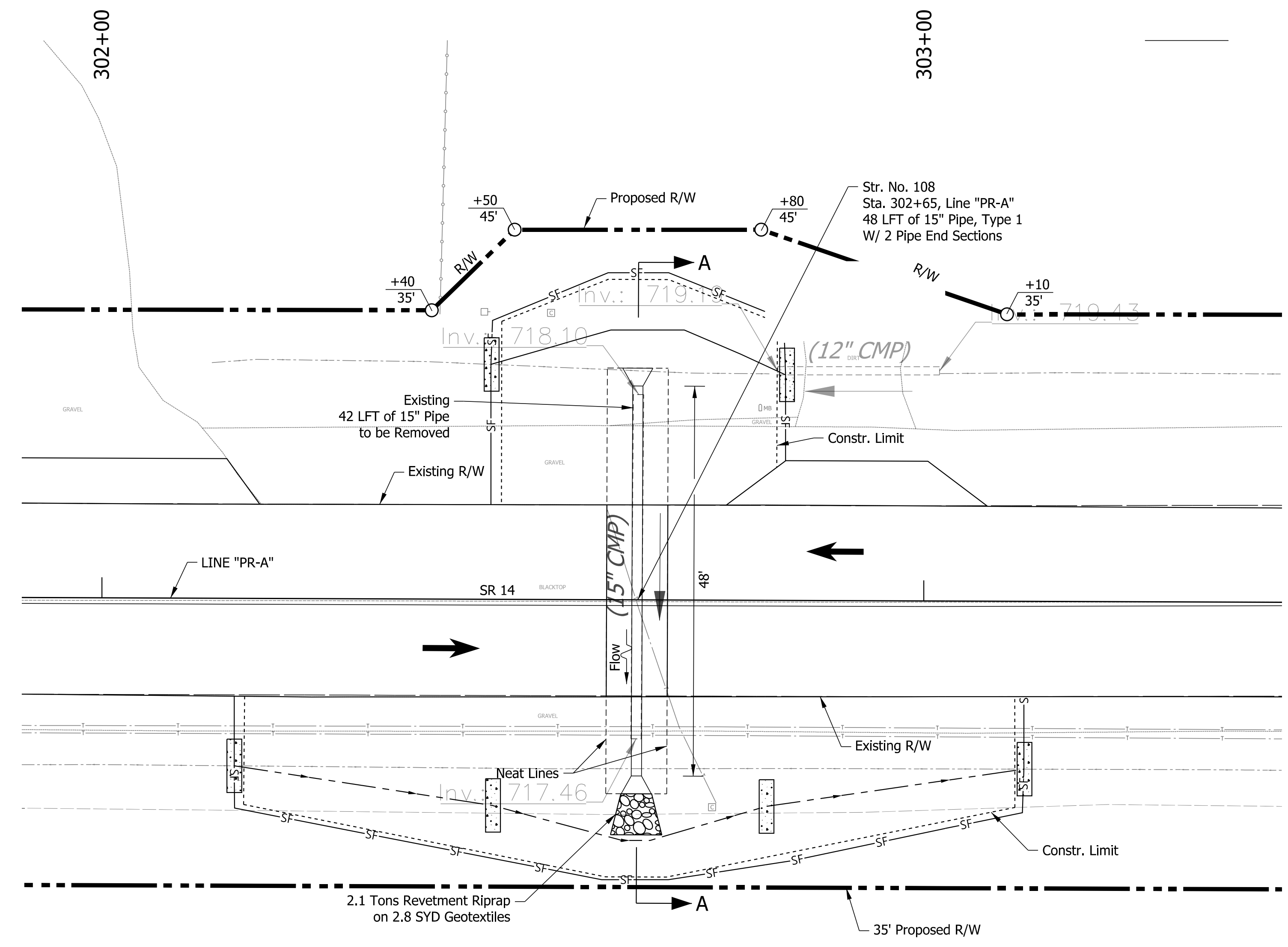
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**STR. NO. 107**

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	SHEETS
	60 of 124
	PROJECT
	1800182

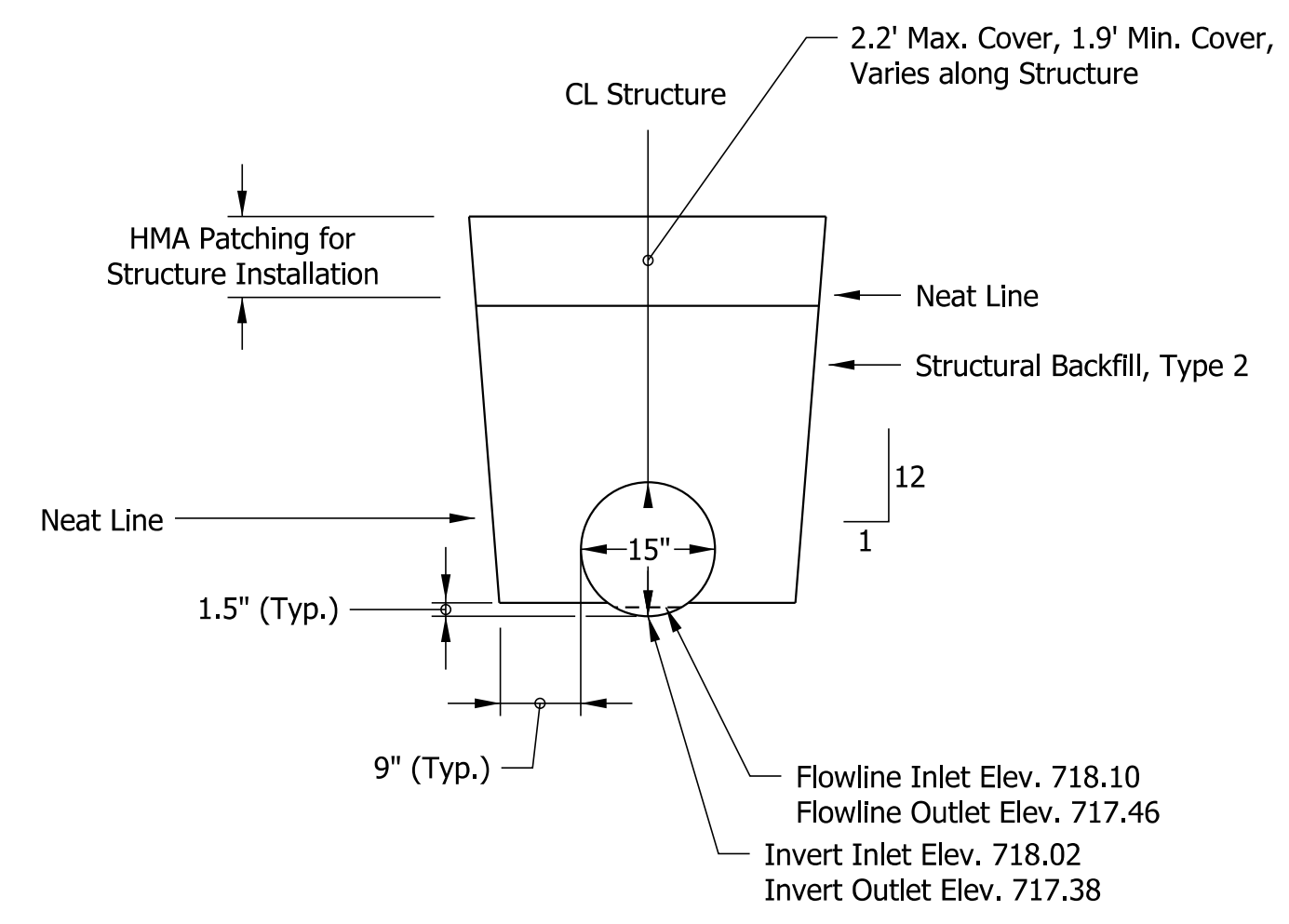
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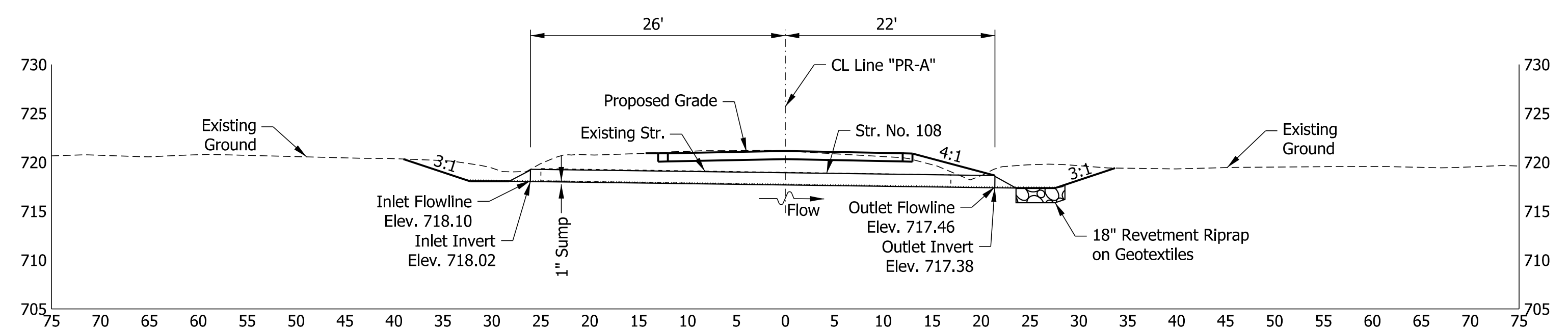
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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 302+65  
Scale : 1" = 10'

**REINFORCED CONCRETE PIPE**

SPAN: 15", RISE: 15"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	5.76	Acres
Q100 Discharge	6.72	CFS
Q25 Discharge	5.67	CFS
Q100 Water Surface Elevation (Tailwater)	1.12	Ft
Design Roadway Serviceability Elevation	720.94	Ft
Proposed Structure 15" RCP		
Q100 Proposed Headwater Elevation	720.13	Ft
Q25 Proposed Headwater Elevation	719.73	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.91	Ft
Proposed Culvert Velocity (Q25)	5.01	Ft/s
Proposed Outlet Riprap Size	Revetment	
Existing Structure 15" CMP		
Q100 Existing Headwater Elevation	721.05	Ft
Q25 Existing Headwater Elevation	720.29	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	1.83	Ft

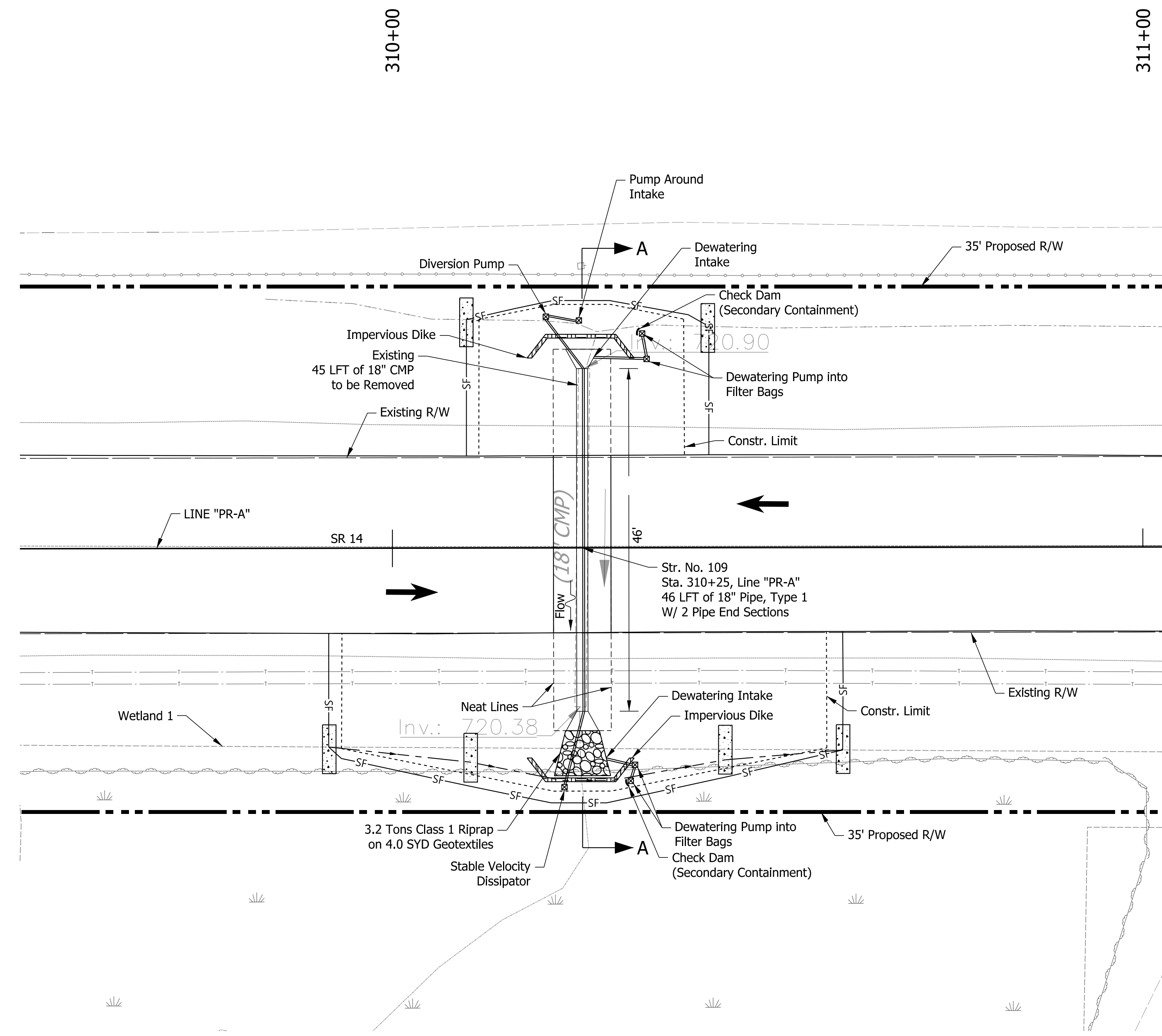
- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>SENG SIGNATURES</i>	
DESIGN ENGINEER	XX/XX/2020	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
  
**STRUCTURE DETAILS**  
**STR. NO. 108**

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	61 of 124
CONTRACT	PROJECT
RS-41443	1800182

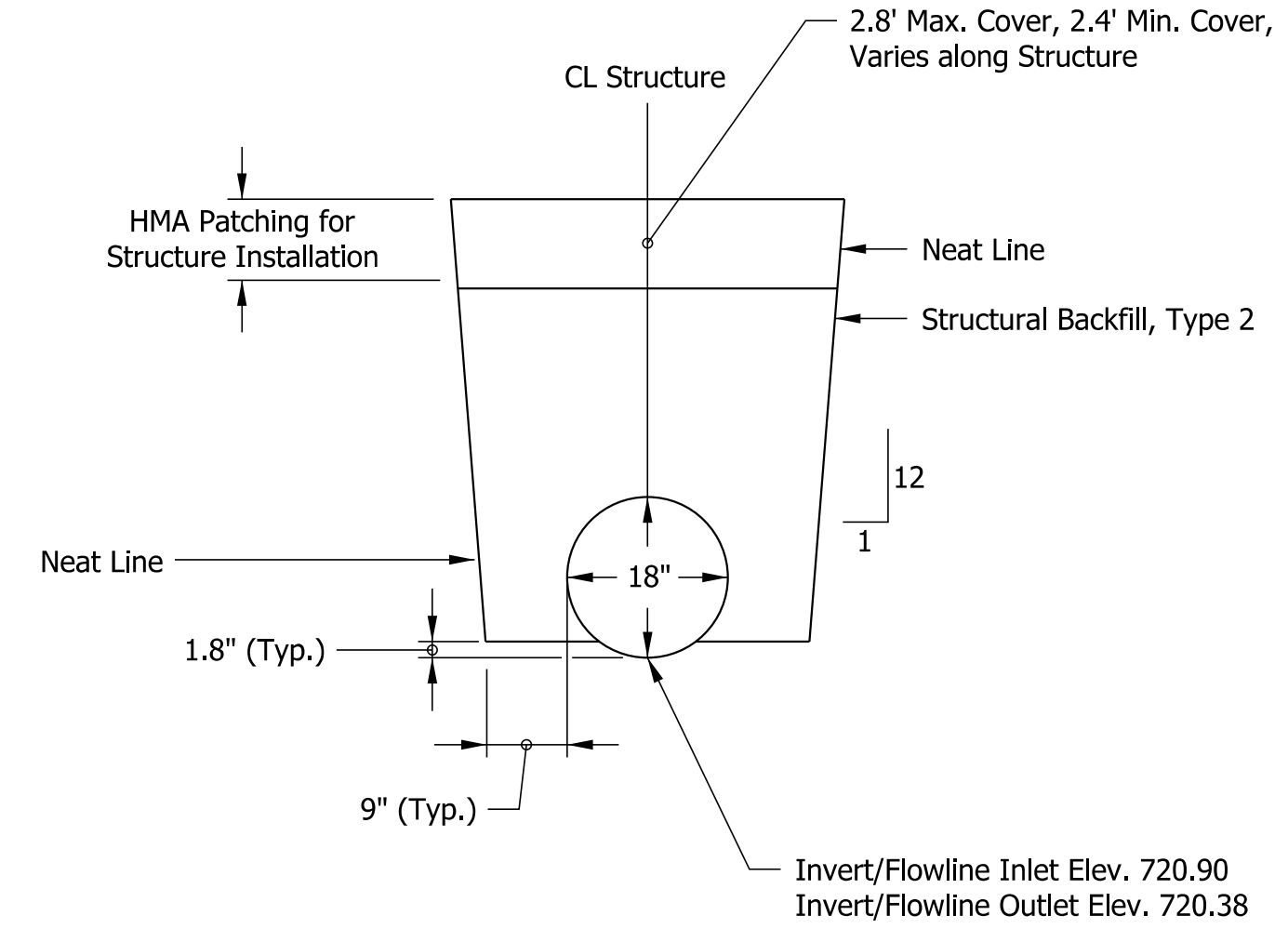
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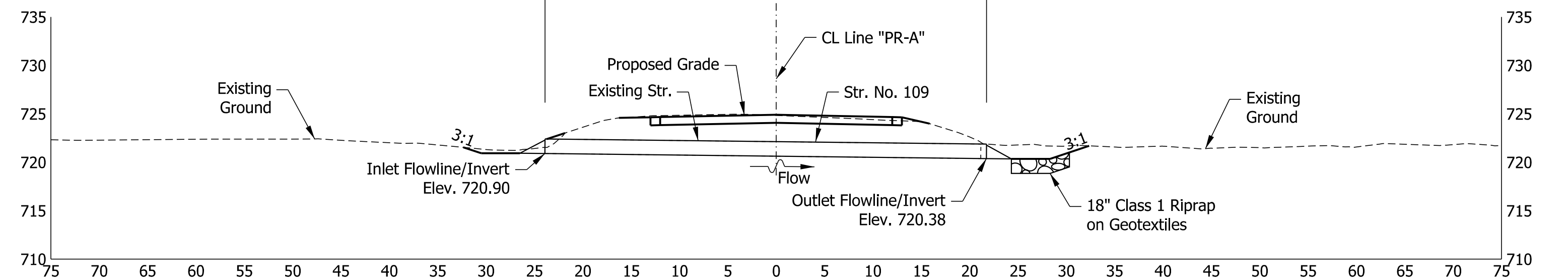
**PLAN VIEW DETAILS**  
SCALE : 1" = 10'

**REINFORCED CONCRETE PIPE**  
 SPAN: 18", RISE: 18"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA  
**HYDRAULIC DATA**

Drainage Area	7.57	Acres
Q100 Discharge	11.25	CFS
Q25 Discharge	9.47	CFS
Q100 Water Surface Elevation (Tailwater)	1.37	Ft
Design Roadway Serviceability Elevation	724.69	Ft
<b>Proposed Structure 18" RCP</b>		
Q100 Proposed Headwater Elevation	723.49	Ft
Q25 Proposed Headwater Elevation	723.03	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	1.22	Ft
Proposed Culvert Velocity (Q25)	7.57	Ft/s
Proposed Outlet Riprap Size	Class 1	
<b>Existing Structure 18" CMP</b>		
Q100 Existing Headwater Elevation	724.74	Ft
Q25 Existing Headwater Elevation	723.86	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	2.47	Ft



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 310+25  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

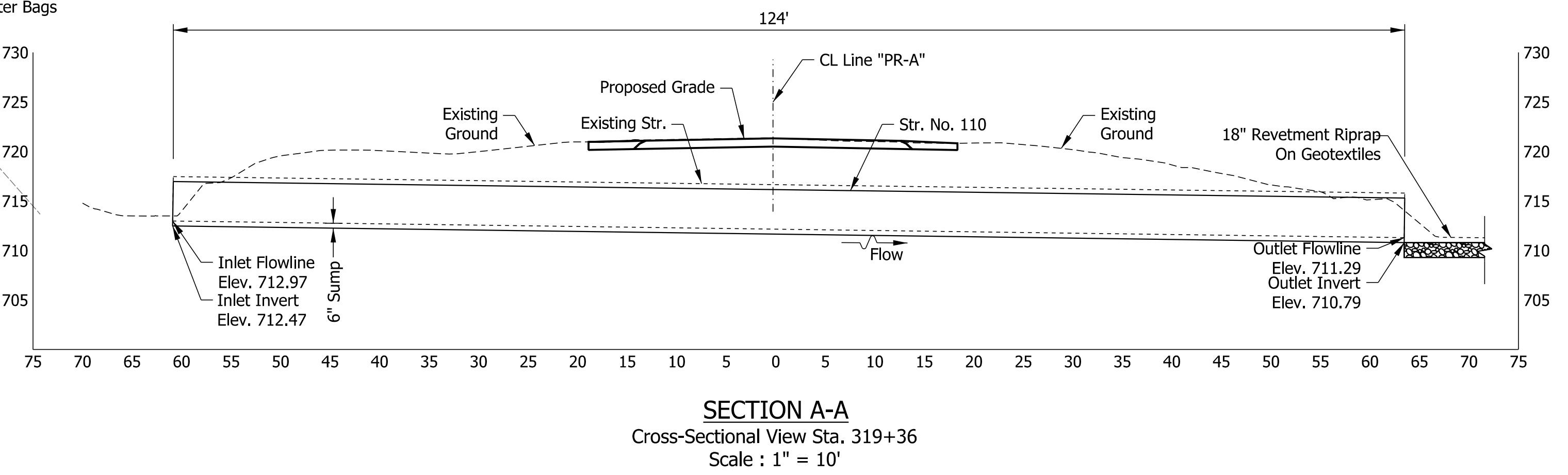
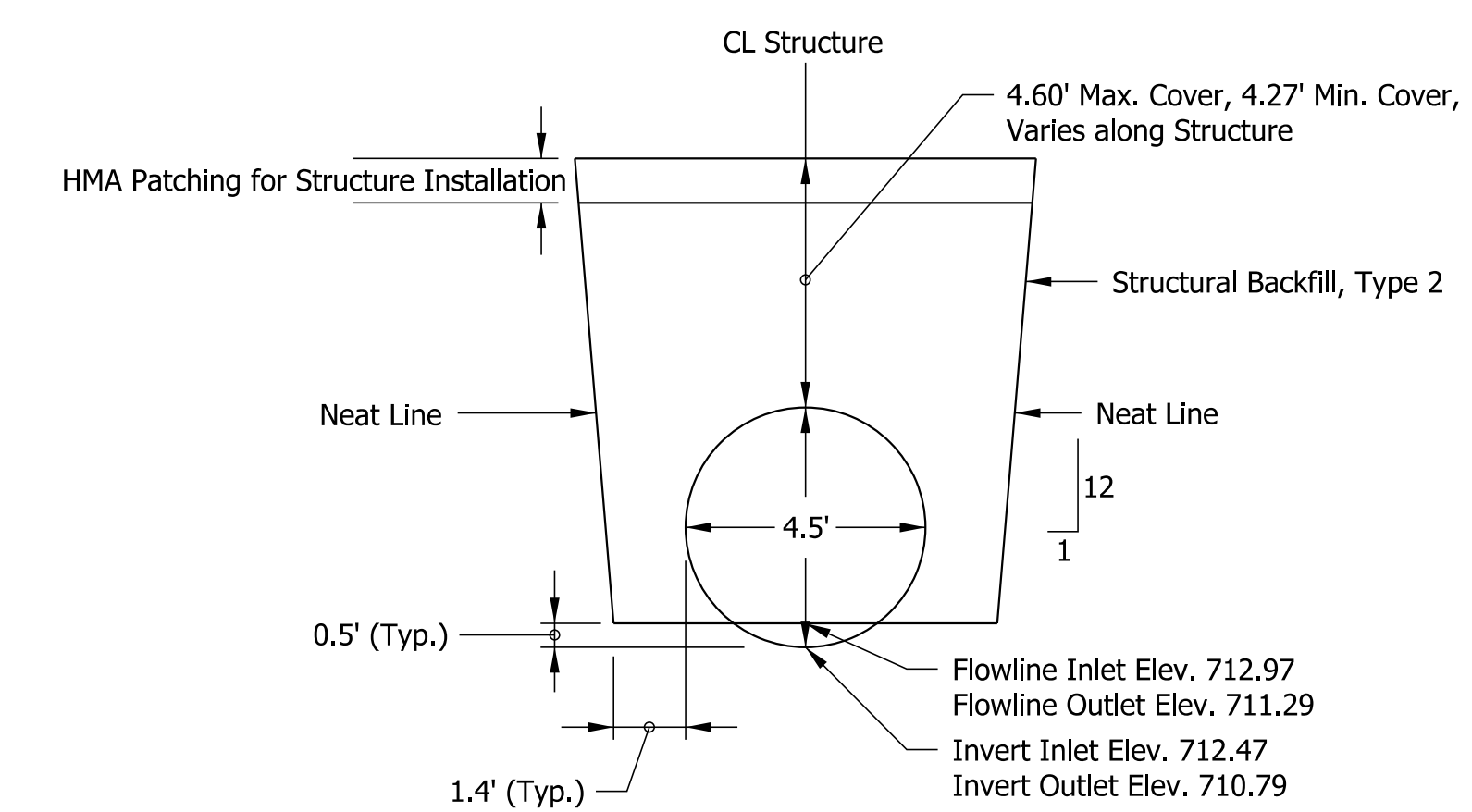
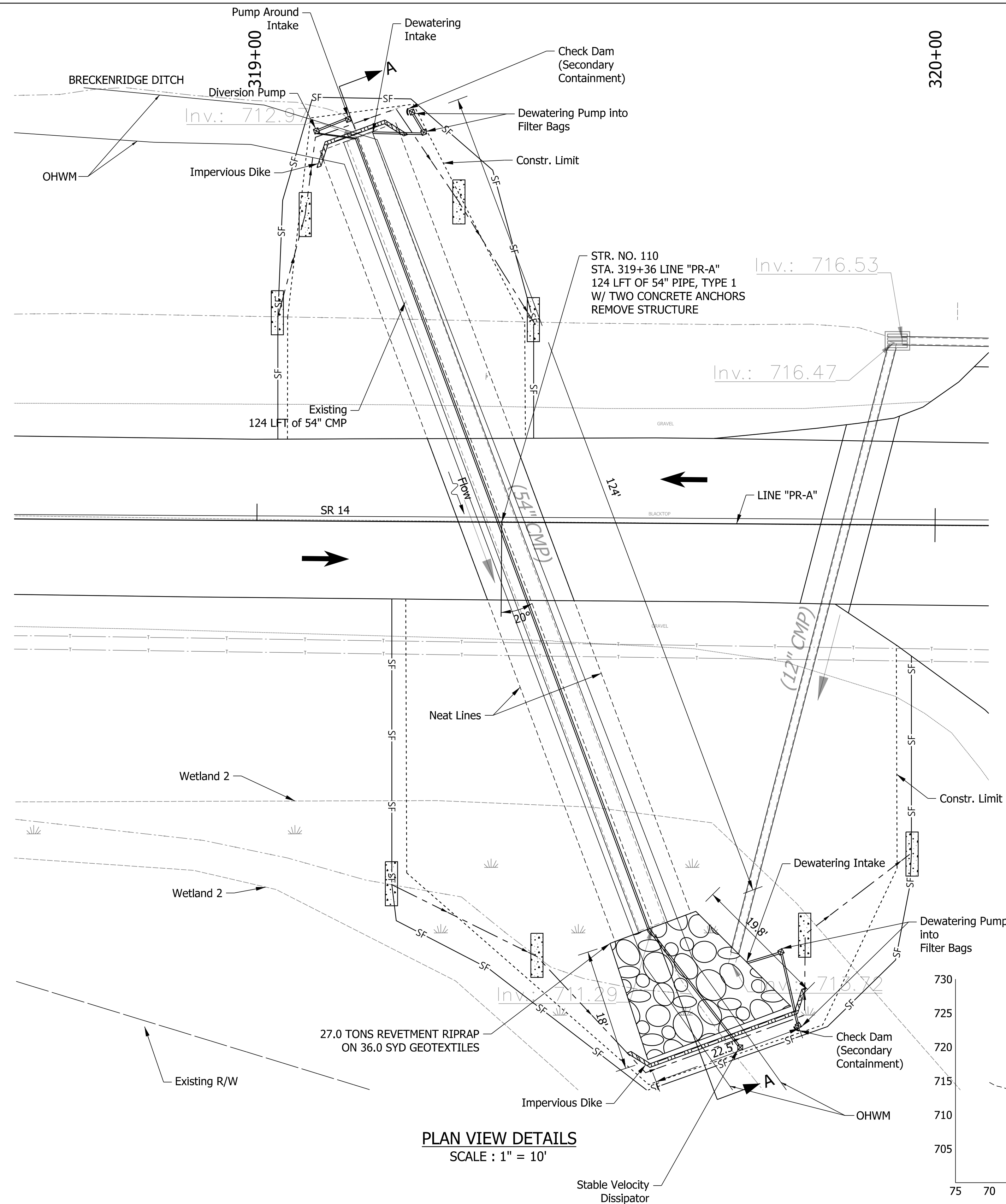
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	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 STRUCTURE DETAILS  
 STR. NO. 109

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	62 of 124
CONTRACT	PROJECT
RS-41443	1800182



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**SMOOTH CIRCULAR PIPE**

SPAN: 54", RISE: 54"  
 SKEW: 20° LEFT, LINE "PR-A"  
 SR 14 OVER BRECKENRIDGE DITCH  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	28.62	Acres
Q100 Discharge	45.66	CFS
Q25 Discharge	37.42	CFS
Q100 Water Surface Elevation (Tailwater)	720.00	Ft
Design Roadway Serviceability Elevation	721.03	Ft

Proposed Structure 54" Smooth Circular Pipe

Q100 Proposed Headwater Elevation	720.41	Ft
Q25 Proposed Headwater Elevation	720.28	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.00	Ft
Proposed Culvert Velocity (Q25)	2.52	Ft/s
Proposed Outlet Riprap Size	Revetment	

Existing Structure 54" CMP

Q100 Existing Headwater Elevation	720.36	Ft
Q25 Existing Headwater Elevation	720.24	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	0.00	Ft

- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

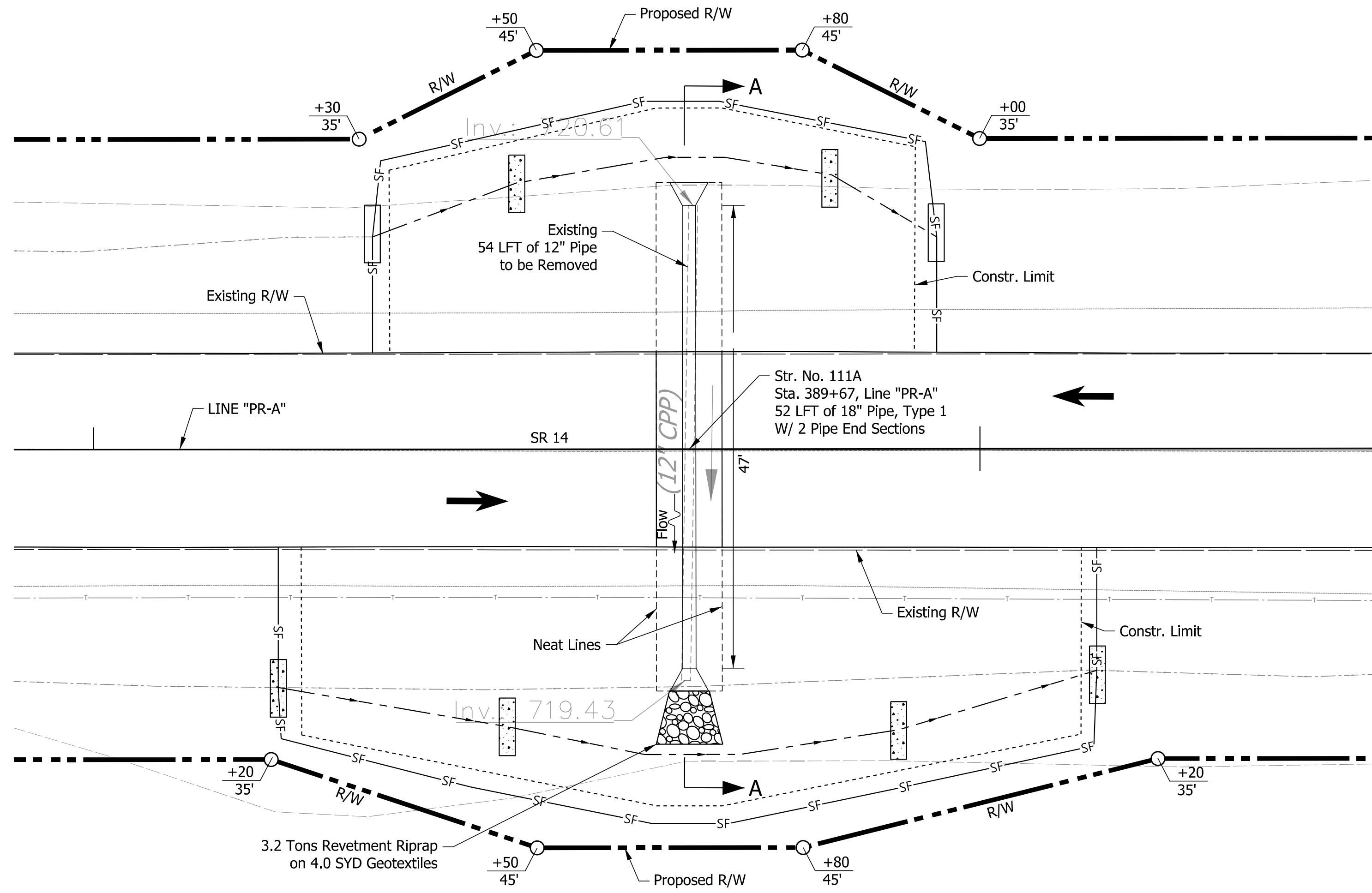
INDIANA  
 DEPARTMENT OF TRANSPORTATION

**STRUCTURE DETAILS**  
**STR. NO. 110**

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	63 of 124
CONTRACT	PROJECT
RS-41443	1800182

389+00

390+00



PLAN VIEW DETAILS  
SCALE : 1" = 10'

REINFORCED CONCRETE PIPE

SPAN: 18", RISE: 18"  
SKEW: 0°, LINE "PR-A"  
SR 14 OVER UNT  
PULASKI COUNTY, INDIANA

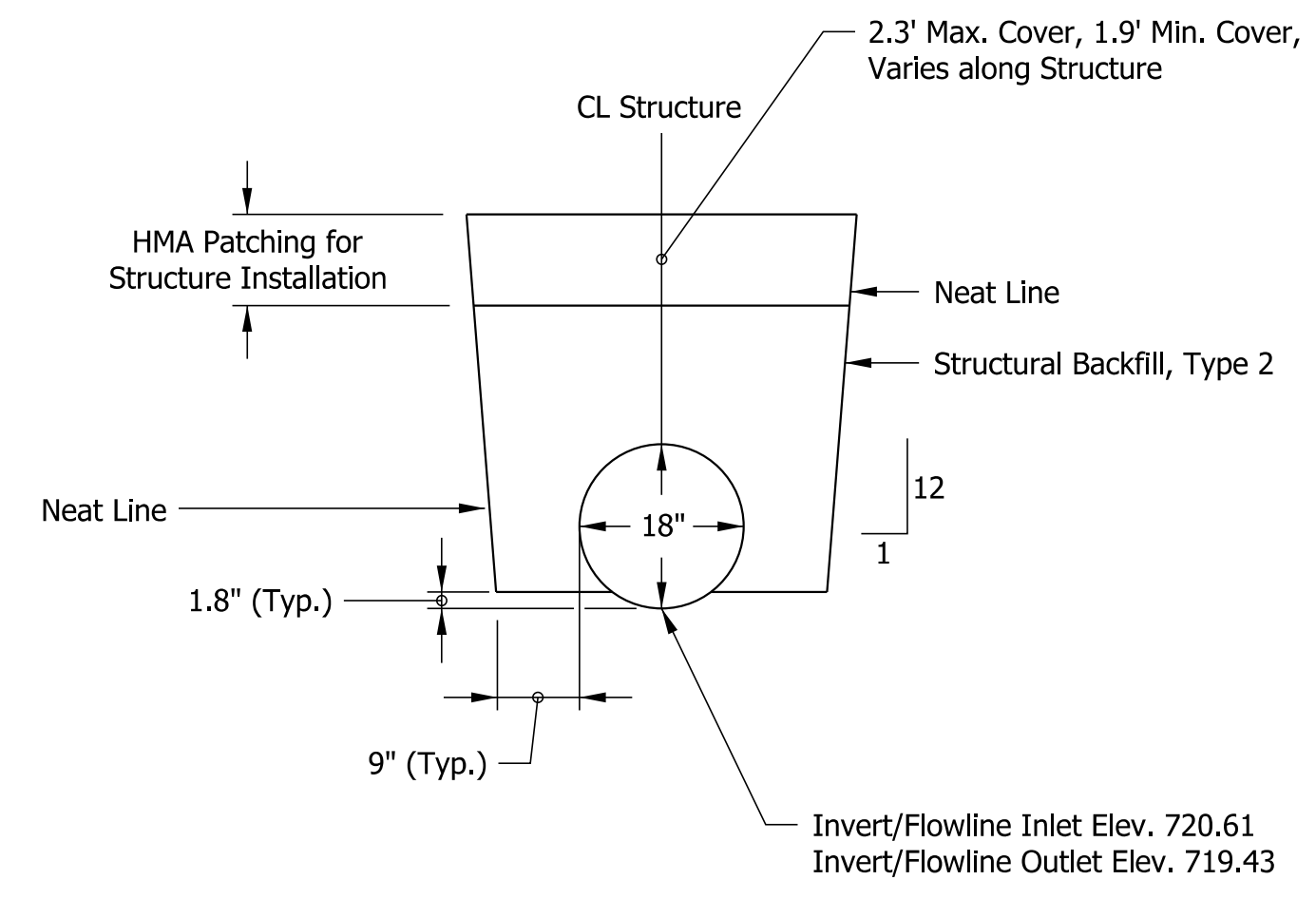
HYDRAULIC DATA

Drainage Area	11.90	Acres
Q100 Discharge	13.16	CFS
Q25 Discharge	10.70	CFS
Q100 Water Surface Elevation (Tailwater)	2.57	Ft
Design Roadway Serviceability Elevation	723.63	Ft

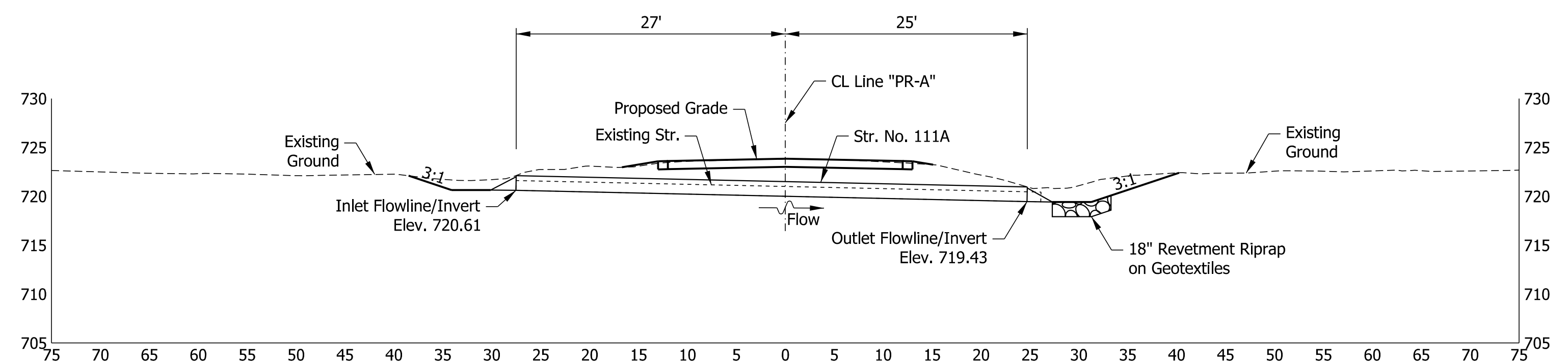
Proposed Structure 18" RCP		
Q100 Proposed Headwater Elevation	723.86*	Ft
Q Prior to Overtopping	12.71	CFS
Q25 Proposed Headwater Elevation	723.31	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.68	Ft
Proposed Culvert Velocity (Q25)	6.05	Ft/s
Proposed Outlet Riprap Size	Revetment	

Existing Structure 12" CPP		
Q100 Existing Headwater Elevation	723.95*	Ft
Q Prior to Overtopping	3.19	CFS
Q25 Existing Headwater Elevation	723.94*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	0.77	Ft

\*Overtopping



TYPICAL EXCAVATION AND BACKFILL LIMITS  
Elevation View, Scale: NTS



SECTION A-A  
Cross-Sectional View Sta. 389+67  
Scale : 1" = 10'

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- Temporay Check Dam
- SF Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN: RLK 03/2021
CHECKED:	AH	03/2021	CHECKED: AH 03/2021

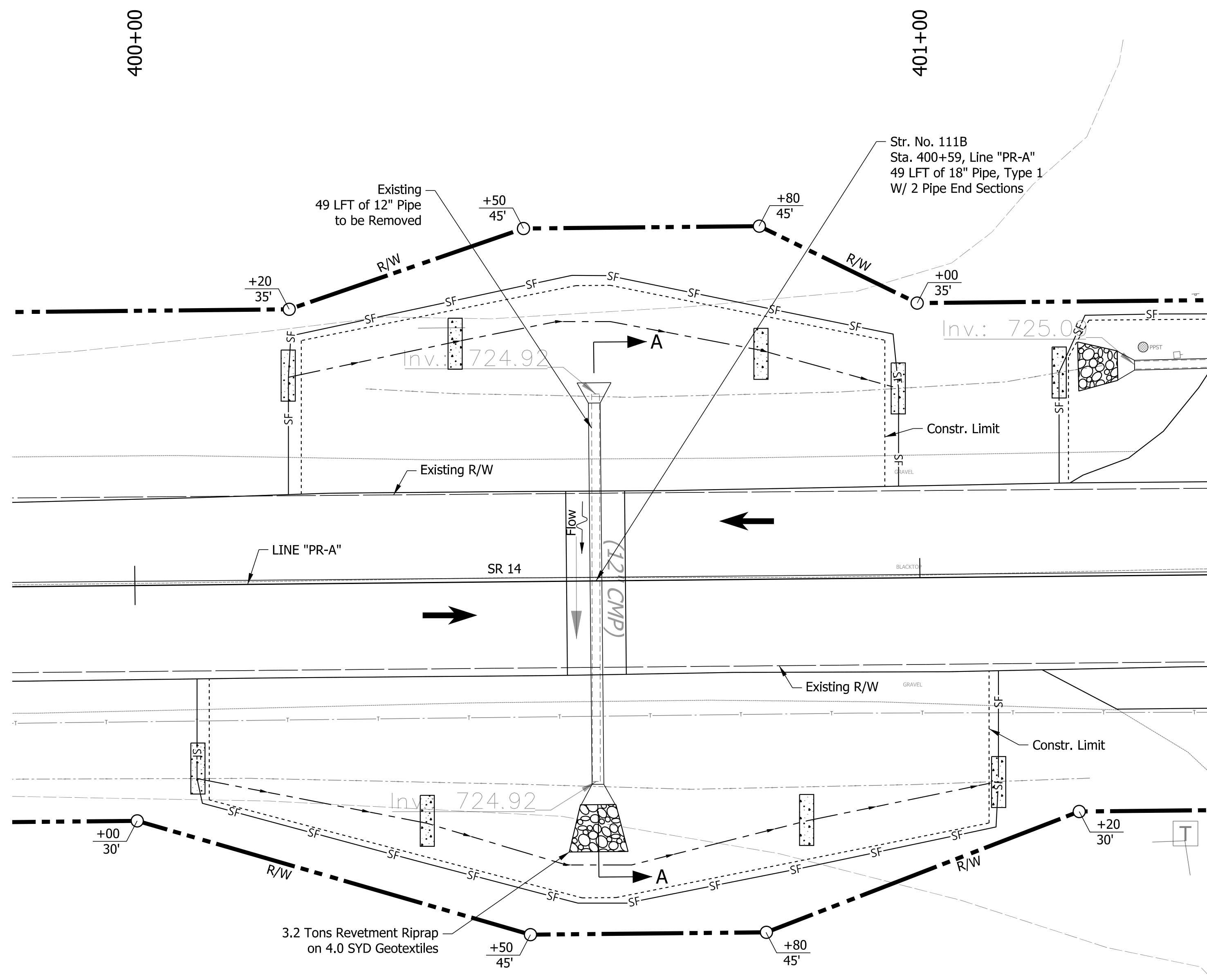
INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS  
STR. NO. 111A

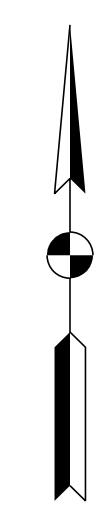
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DESIGNATION	1800182	SHEETS	64 of 124
CONTRACT	RS-41443	PROJECT	1800182



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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



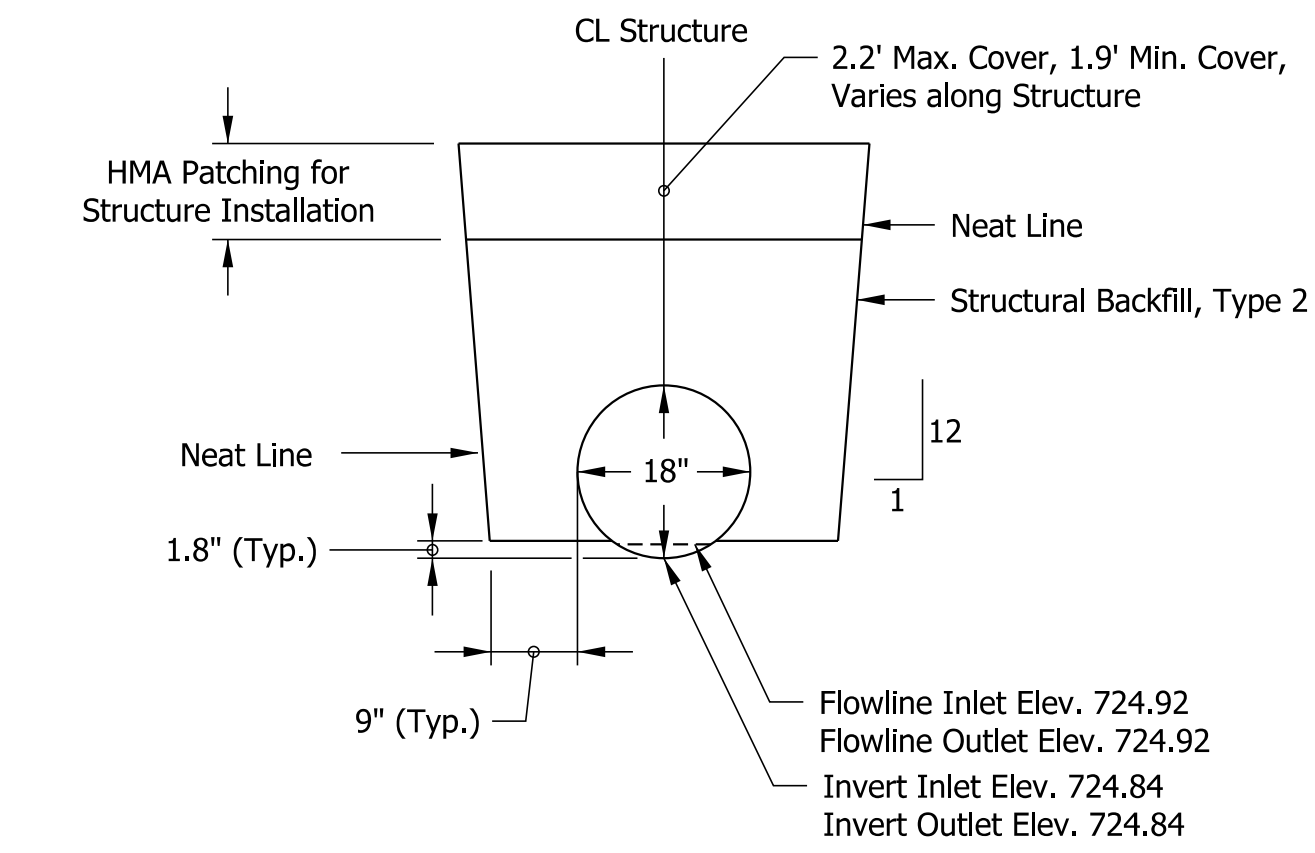
**REINFORCED CONCRETE PIPE**

SPAN: 18", RISE: 18"  
 SKEW: 42°, LINE "PR-A"  
 SR 14 OVER UNT  
 FULTON COUNTY, INDIANA

**HYDRAULIC DATA**

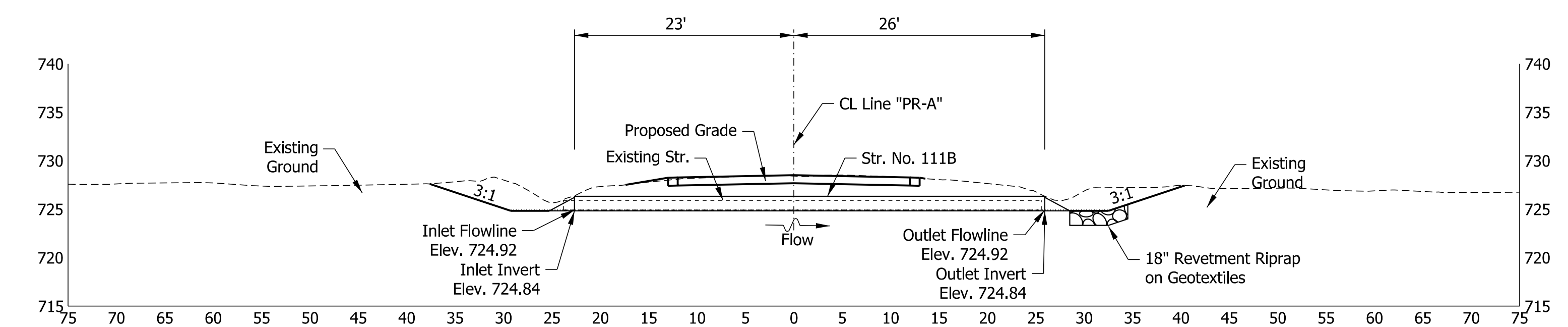
Drainage Area	11.18	Acres
Q100 Discharge	12.29	CFS
Q25 Discharge	10.07	CFS
Q100 Water Surface Elevation (Tailwater)	1.30	Ft
Design Roadway Serviceability Elevation	728.28	Ft
Proposed Structure 18" RCP		
Q100 Proposed Headwater Elevation	728.46	Ft
Q Prior to Overtopping	12.39	CFS
Q25 Proposed Headwater Elevation	727.70	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.24	Ft
Proposed Culvert Velocity (Q25)	6.50	Ft/s
Proposed Outlet Riprap Size	Revetment	
Existing Structure 12" CMP		
Q100 Existing Headwater Elevation	728.60*	Ft
Q Prior to Overtopping	3.66	CFS
Q25 Existing Headwater Elevation	728.58*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.38	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**

Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 258+42  
Scale : 1" = 10'

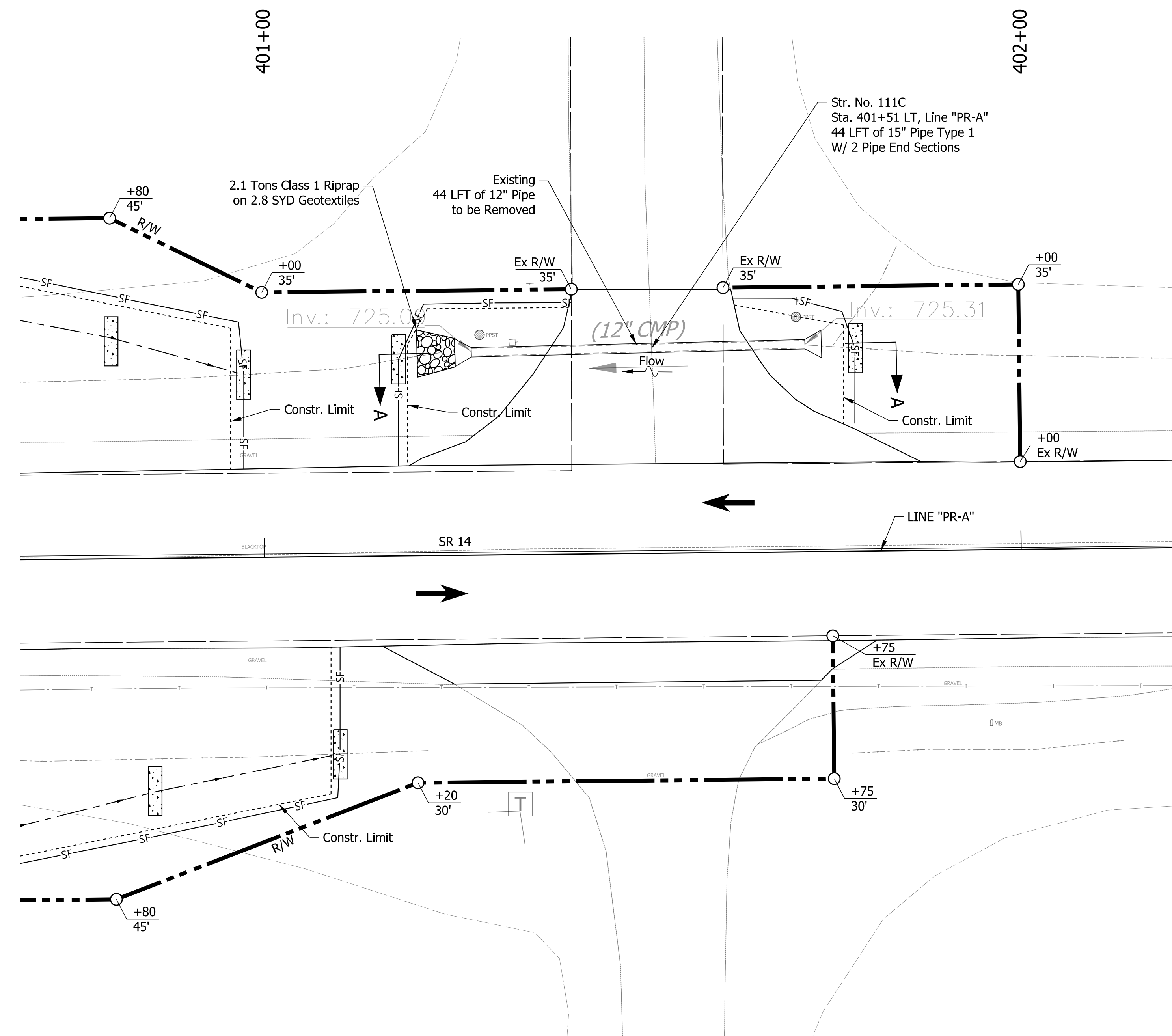
- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

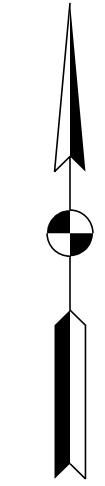
**INDIANA DEPARTMENT OF TRANSPORTATION**  
  
**STRUCTURE DETAILS STR. NO. 111B**

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	65 of 124
CONTRACT	PROJECT
RS-41443	1800182

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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



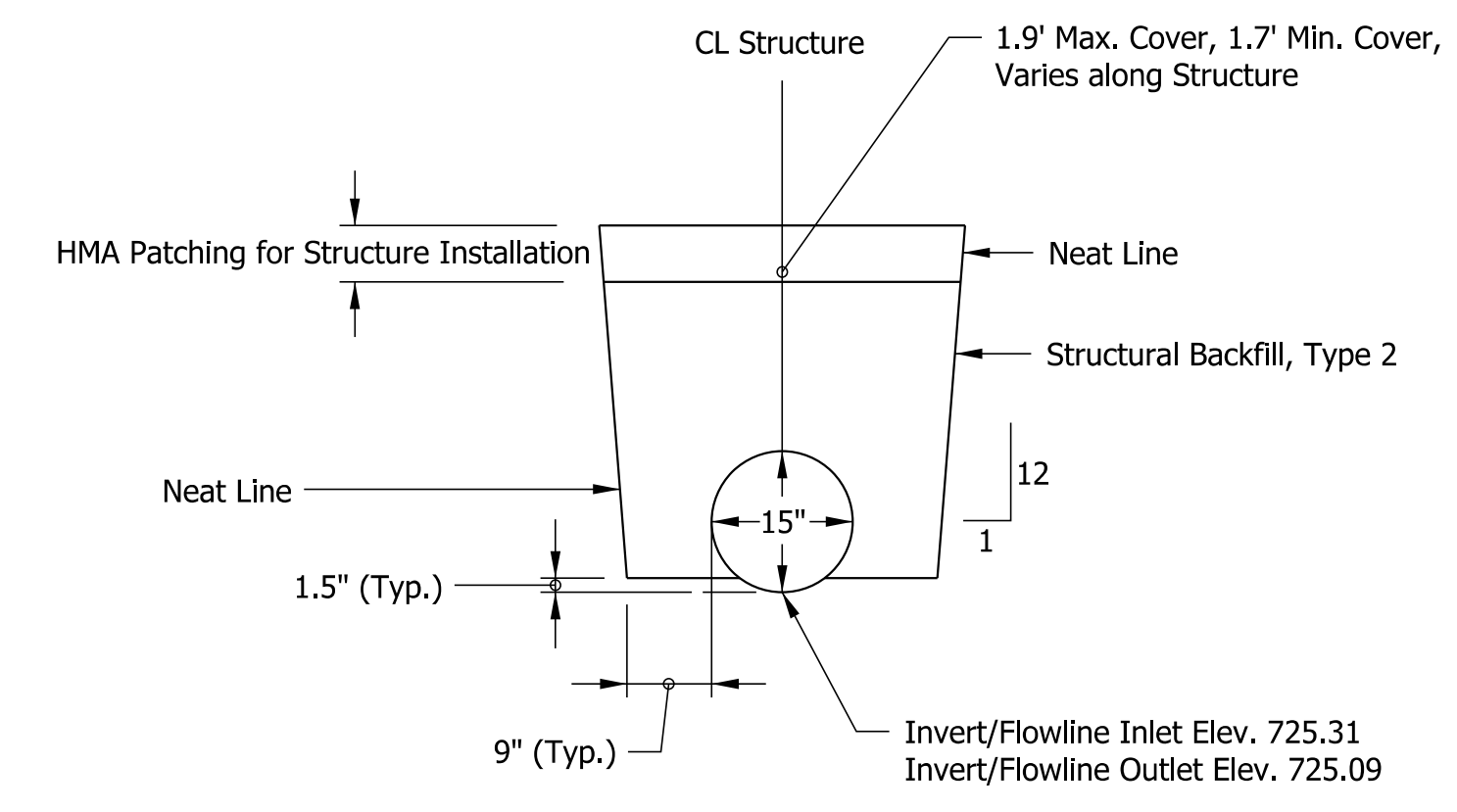
**REINFORCED CONCRETE PIPE**

SPAN: 15", RISE: 15"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

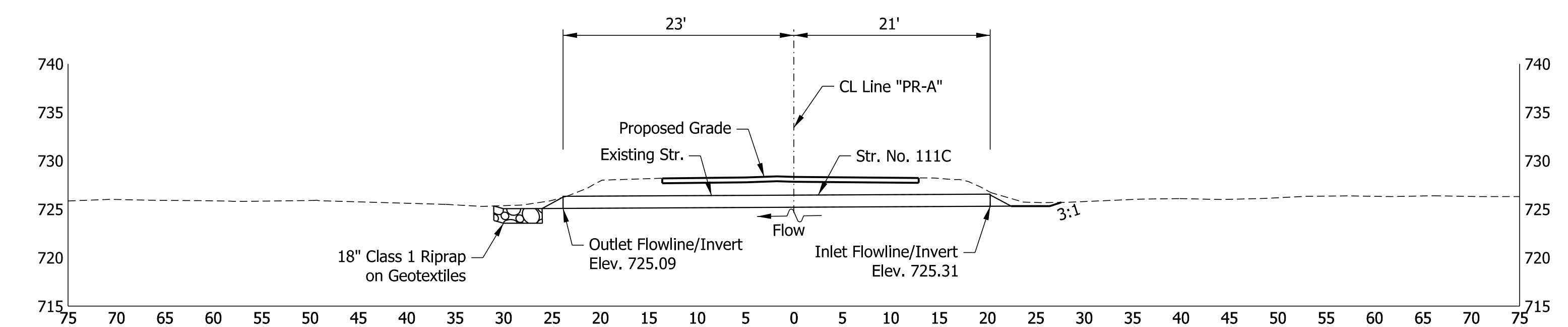
**HYDRAULIC DATA**

Drainage Area	10.50	Acres
Q100 Discharge	11.07	CFS
Q10 Discharge	7.82	CFS
Q100 Water Surface Elevation (Tailwater)	1.13	Ft
Design Roadway Serviceability Elevation	728.38	Ft
Proposed Structure 15" RCP		
Q100 Proposed Headwater Elevation	728.63*	Ft
Q Prior to Overtopping	9.64	CFS
Q10 Proposed Headwater Elevation	727.78	Ft
Meets Roadway Serviceability (Q10)	Yes	
Proposed Backwater Depth	2.19	Ft
Proposed Culvert Velocity (Q10)	6.80	Ft/s
Proposed Outlet Riprap Size	Class 1	
Existing Structure 12" CMP		
Q100 Existing Headwater Elevation	728.68*	Ft
Q Prior to Overtopping	3.91	CFS
Q10 Existing Headwater Elevation	728.66*	Ft
Meets Roadway Serviceability (Q10)	No	
Existing Backwater Depth	2.24	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 258+42  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

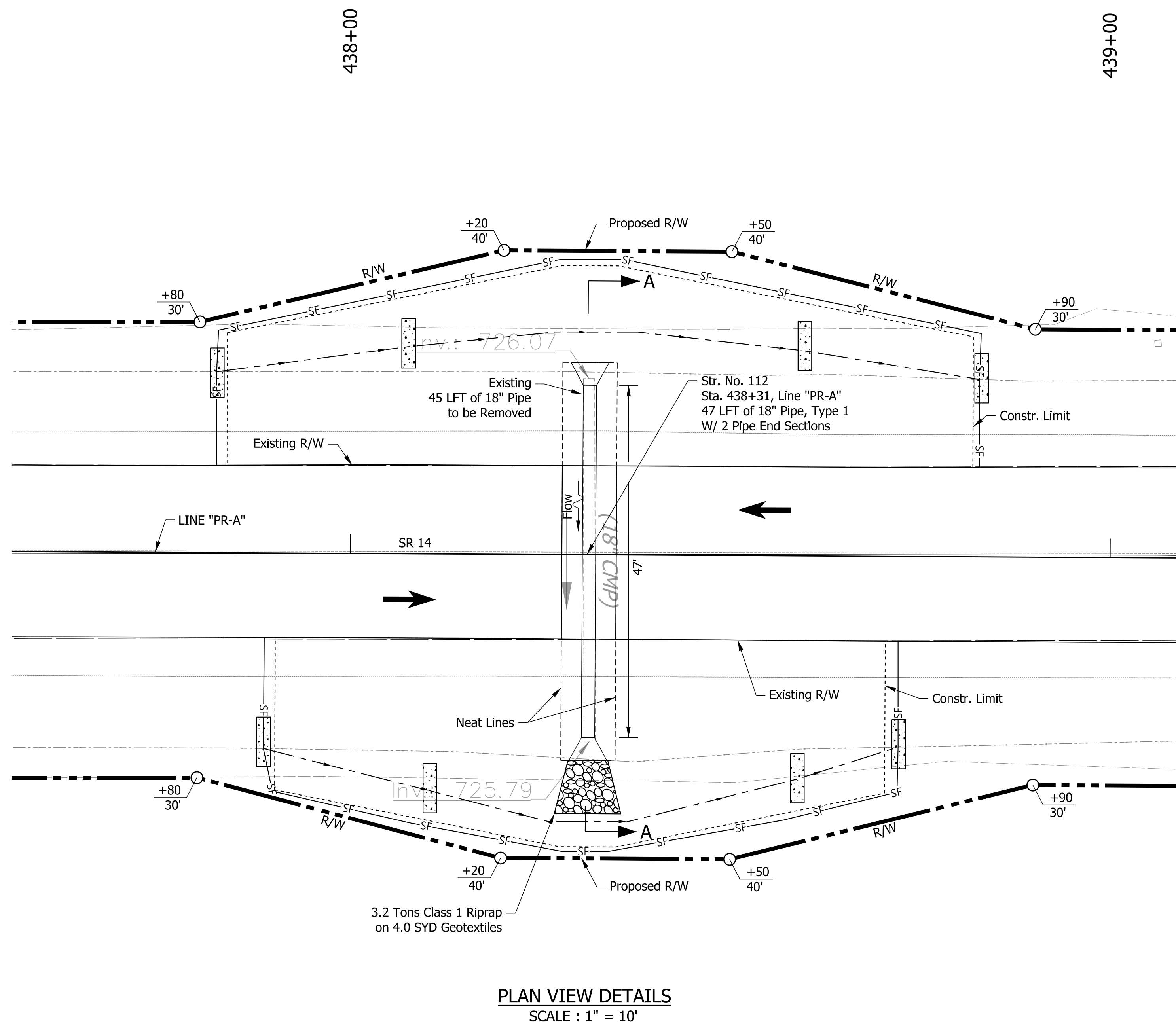
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

**INDIANA DEPARTMENT OF TRANSPORTATION**  
  
**STRUCTURE DETAILS**  
**STR. NO. 111C**

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	66 of 124
CONTRACT	PROJECT
RS-41443	1800182



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**PLAN VIEW DETAILS**  
SCALE: 1" = 10'

**REINFORCED CONCRETE PIPE**

SPAN: 18", RISE: 18"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	8.65	Acres
Q100 Discharge	16.26	CFS
Q25 Discharge	13.64	CFS
Q100 Water Surface Elevation (Outlet Depth)	1.25	Ft
Design Roadway Serviceability Elevation	729.52	Ft

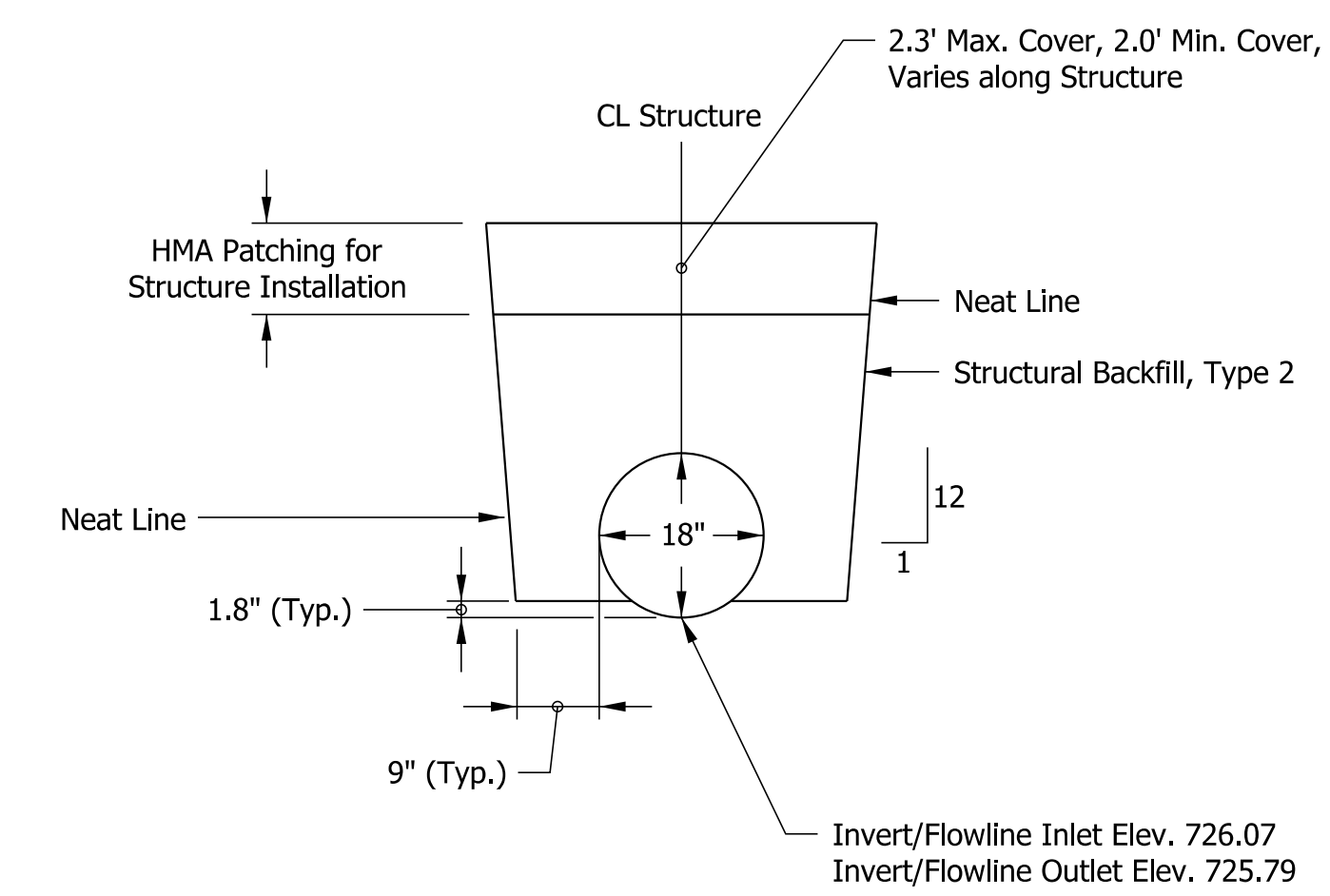
**Proposed Structure 18" RCP**

Q100 Proposed Headwater Elevation	729.77*	Ft
Q Prior to Overtopping	14.50	CFS
Q25 Proposed Headwater Elevation	729.43	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.45	Ft
Proposed Culvert Velocity (Q25)	8.05	Ft/s
Proposed Outlet Riprap Size	Class 1	

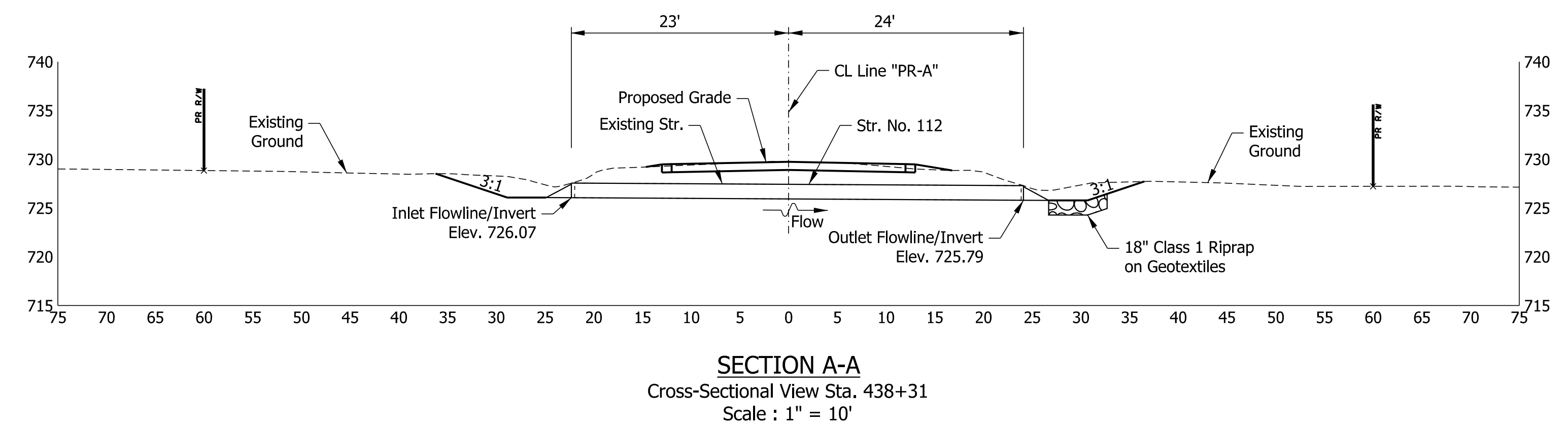
**Existing Structure 18" CMP**

Q100 Existing Headwater Elevation	729.81*	Ft
Q Prior to Overtopping	10.51	CFS
Q25 Existing Headwater Elevation	729.79*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.49	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 438+31  
Scale: 1" = 10'

- Temporary Check Dam
- Silt Fence

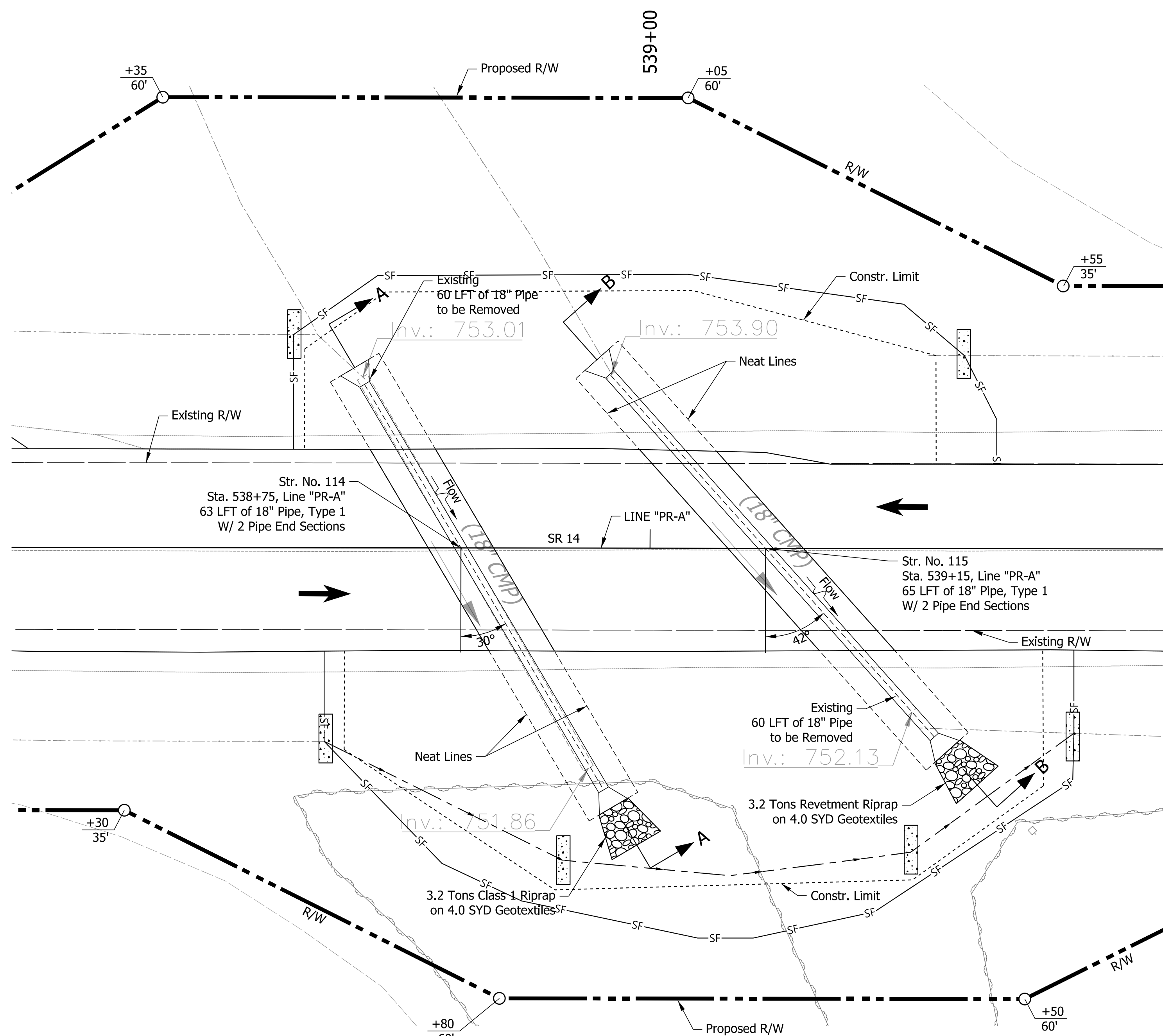
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	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

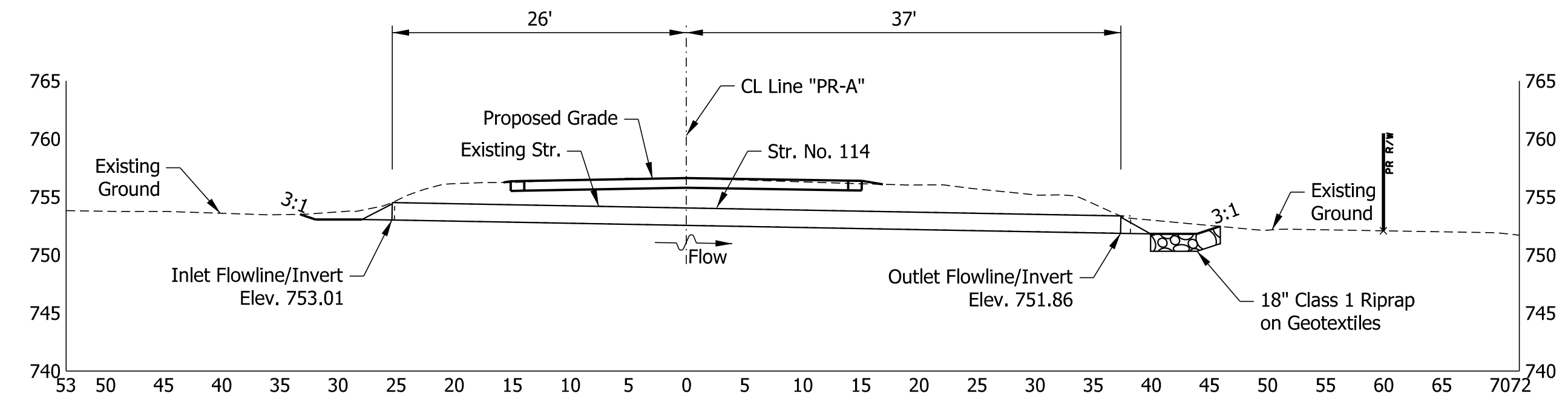
STRUCTURE DETAILS  
STR. NO. 112

SCALE	BRIDGE FILE
AS SHOWN	N/A
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	SHEETS
	67 of 124
CONTRACT	PROJECT
RS-41443	1800182

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 Plot: pw:\VSSC-PW\INT\hwochner.com\Projects\00001721703\_CADD\01\_Sheets\Civil\Str\Structure Details\_10\_01.dgn



**PLAN VIEW DETAILS**  
SCALE: 1" = 10'



**SECTION A-A**  
Cross-Sectional View Sta. 538+75  
Scale: 1" = 10'

**REINFORCED CONCRETE PIPE (STR #114)**

SPAN: 18", RISE: 18"  
 SKEW: 30°, LINE "PR-A"  
 SR 14 OVER UNT  
 FULTON COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	0.49	Acres
Q100 Discharge	3.72	CFS
Q25 Discharge	3.12	CFS
Q100 Water Surface Elevation (Tailwater)	1.39	Ft
Design Roadway Serviceability Elevation	756.53	Ft

**Proposed Structure 18" RCP**

Q100 Proposed Headwater Elevation	754.08	Ft
Q25 Proposed Headwater Elevation	753.97	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	-0.32	Ft
Proposed Culvert Velocity (Q25)	6.83	Ft/s
Proposed Outlet Riprap Size	Class 1	

**Existing Structure 18" CMP**

Q100 Existing Headwater Elevation	754.15	Ft
Q25 Existing Headwater Elevation	754.03	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	-0.25	Ft

**REINFORCED CONCRETE PIPE (STR #115)**

SPAN: 18", RISE: 18"  
 SKEW: 42°, LINE "PR-A"  
 SR 14 OVER UNT  
 FULTON COUNTY, INDIANA

**HYDRAULIC DATA**

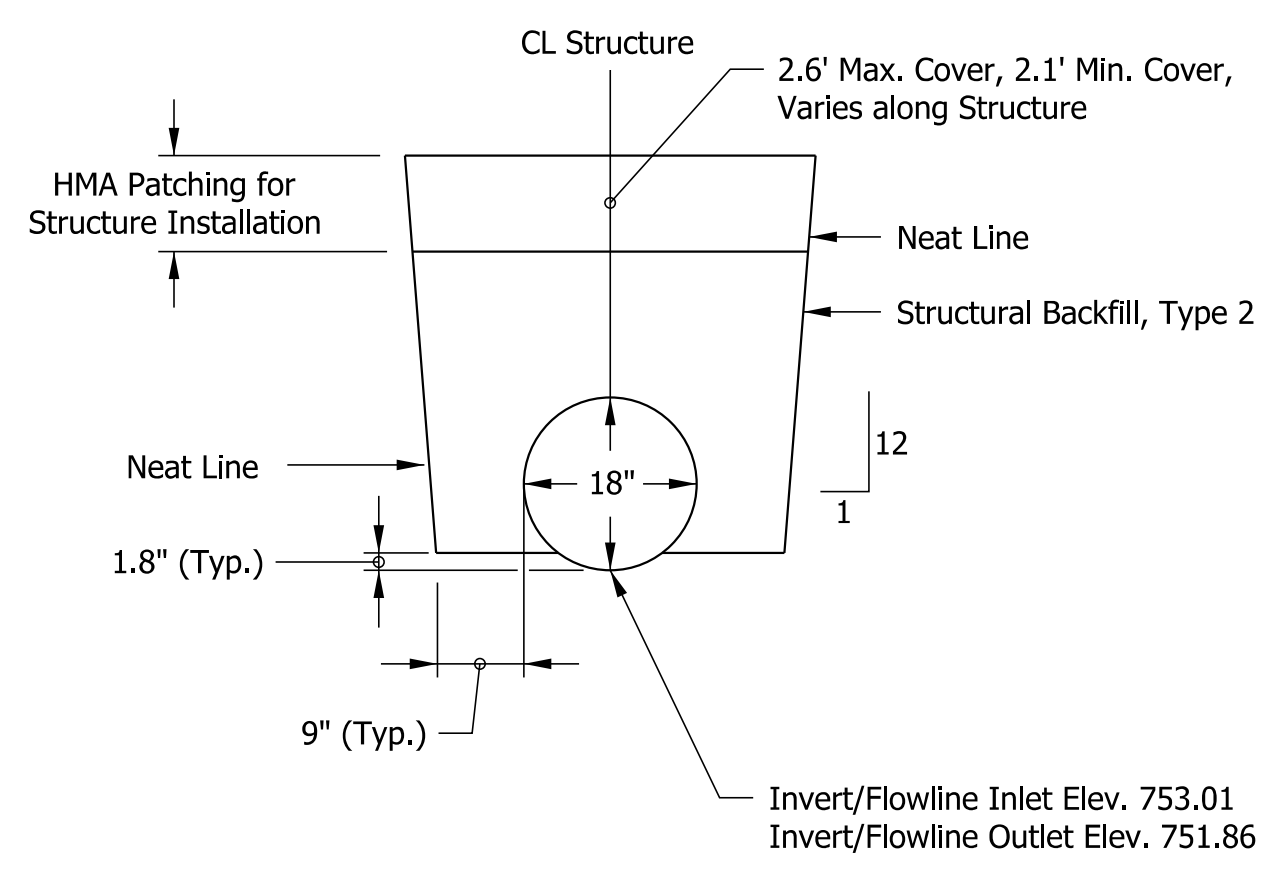
Drainage Area	0.36	Acres
Q100 Discharge	1.47	CFS
Q25 Discharge	1.23	CFS
Q100 Water Surface Elevation (Tailwater)	1.37	Ft
Design Roadway Serviceability Elevation	756.53	Ft

**Proposed Structure 18" RCP**

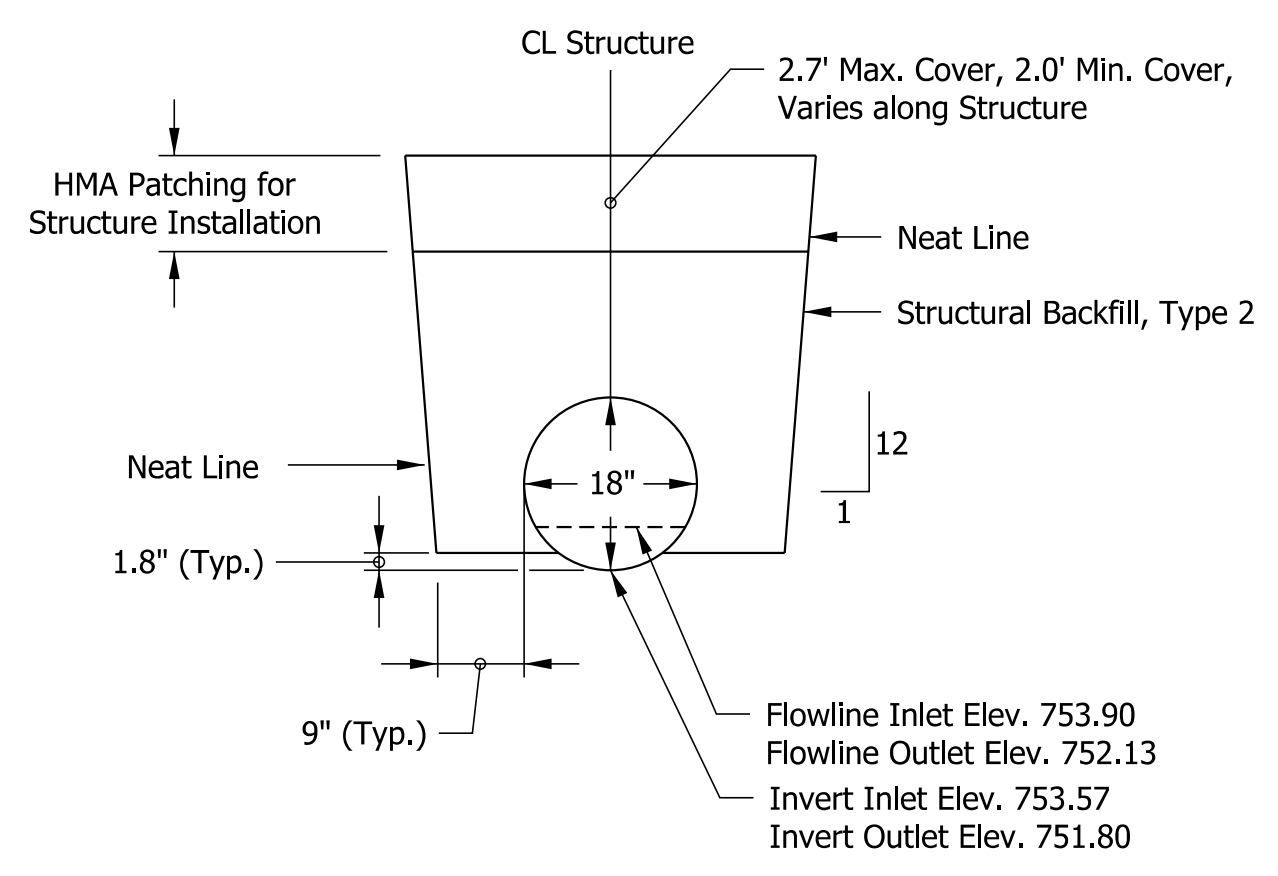
Q100 Proposed Headwater Elevation	754.40	Ft
Q25 Proposed Headwater Elevation	754.35	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	-0.87	Ft
Proposed Culvert Velocity (Q25)	3.03	Ft/s
Proposed Outlet Riprap Size	Revetment	

**Existing Structure 18" CMP**

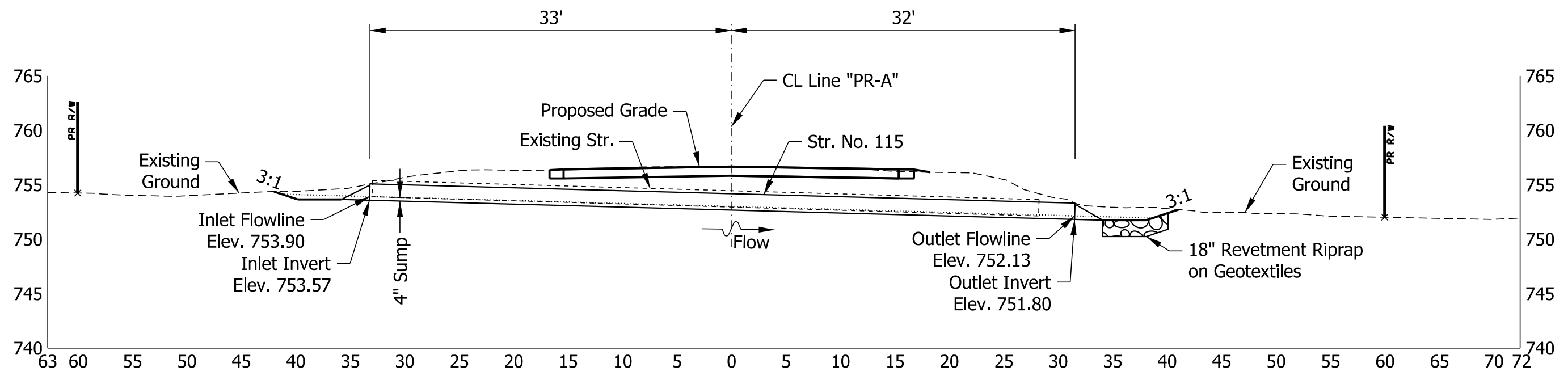
Q100 Existing Headwater Elevation	754.56	Ft
Q25 Existing Headwater Elevation	754.50	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	-0.71	Ft



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
STR #114  
Elevation View, Scale: NTS



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
STR #115  
Elevation View, Scale: NTS



**SECTION B-B**  
Cross-Sectional View Sta. 539+15  
Scale: 1" = 10'

- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN: RLK 03/2021
CHECKED:	AH	03/2021	CHECKED: AH 03/2021

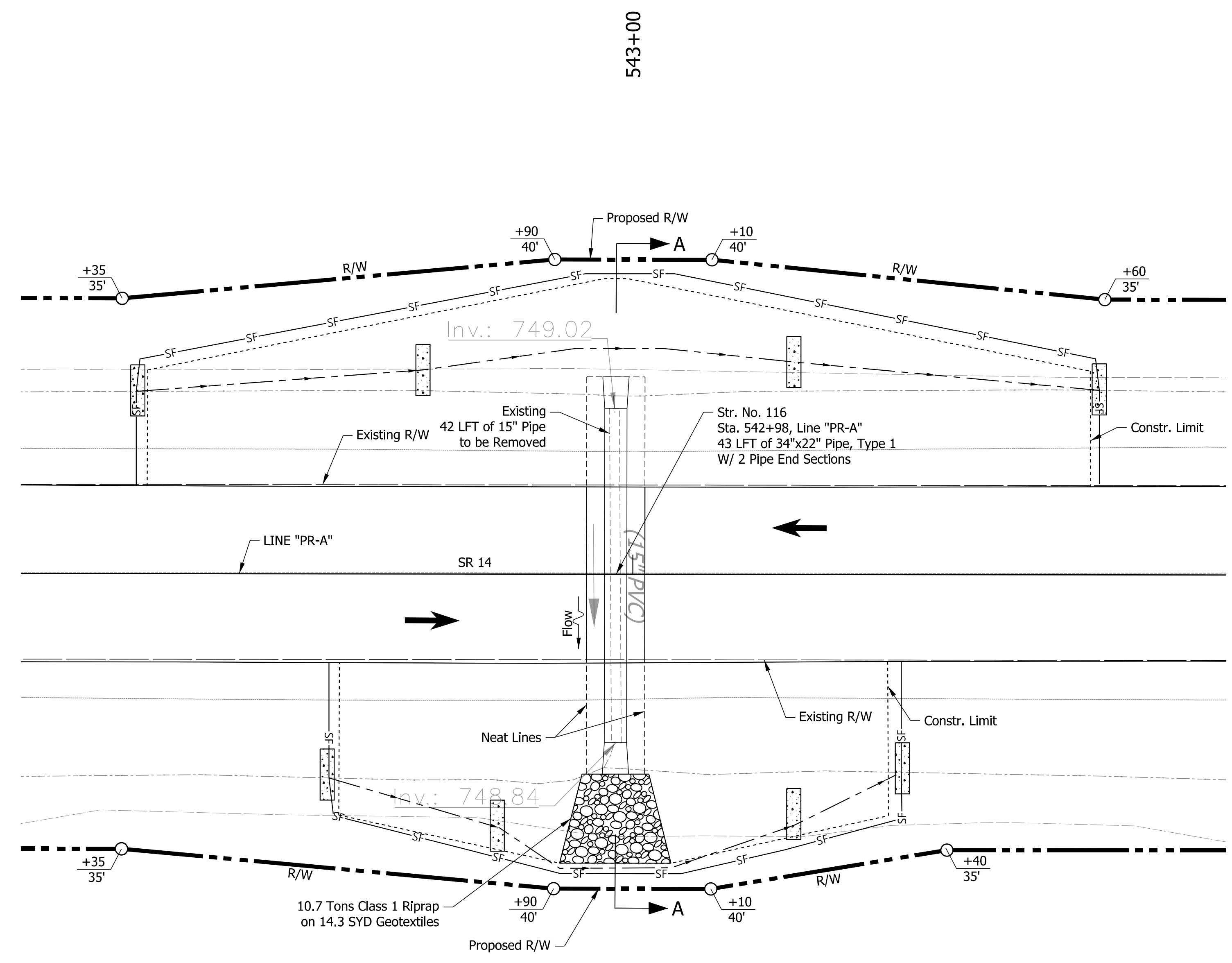
INDIANA  
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS  
STR. NO. 114/115

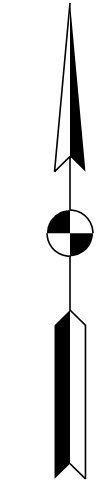
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		DESIGNATION	1800182
		SHEETS	68 of 124
		PROJECT	1800182



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 6/3/2021  
 Plot: pw:\VSS\c-pw\INT.h\lochner-slc\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Structure Details\_10\_01.dgn



**PLAN VIEW DETAILS**  
 SCALE : 1" = 10'



**REINFORCED CONCRETE ELLIPTICAL PIPE**

SPAN: 34", RISE: 22"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNUT  
 FULTON COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	36.65	Acres
Q100 Discharge	34.33	CFS
Q25 Discharge	27.61	CFS
Q100 Water Surface Elevation (Outlet Depth)	1.25	Ft
Design Roadway Serviceability Elevation	752.42	Ft

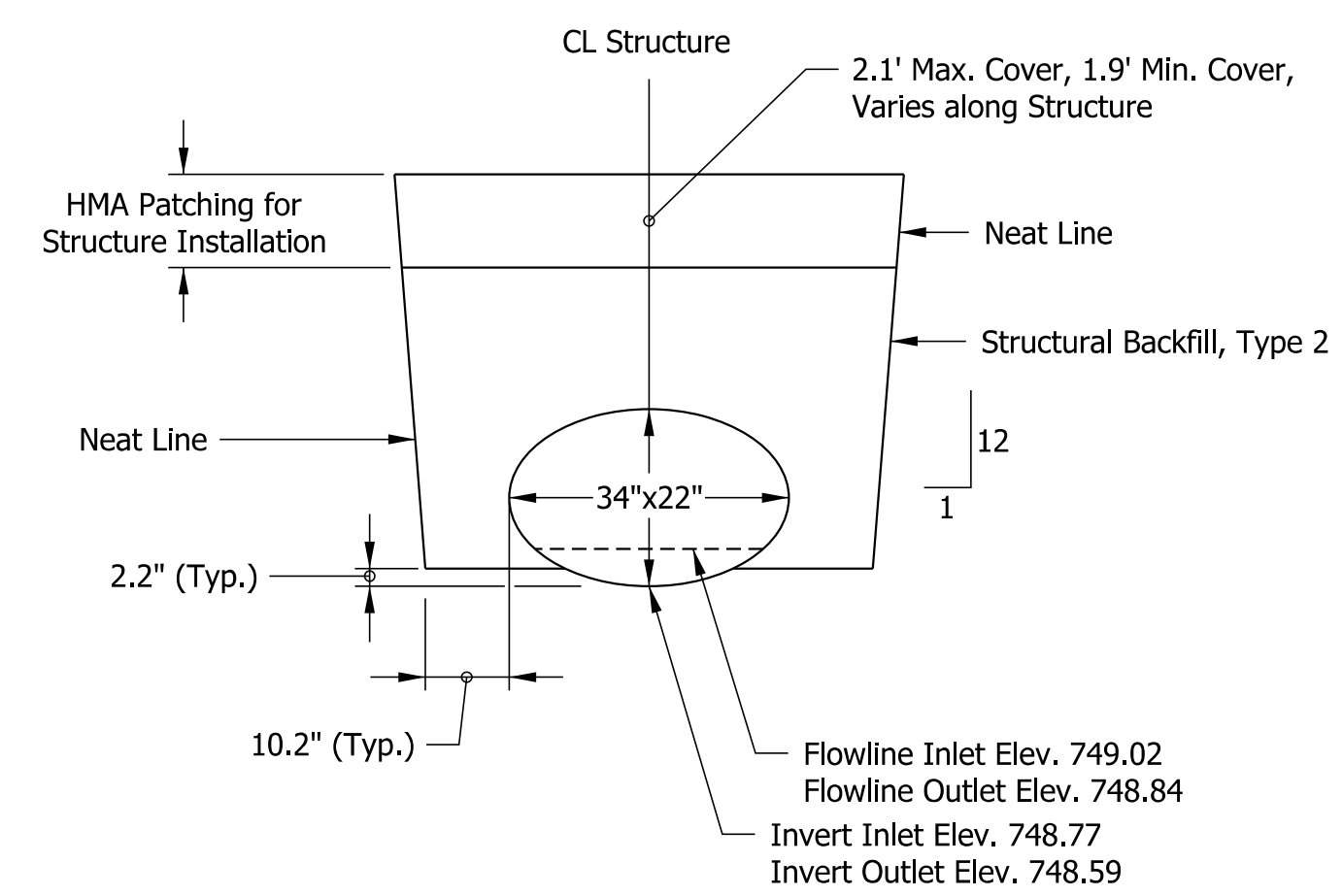
Proposed Structure 34"x22" RCEP

Q100 Proposed Headwater Elevation	752.70*	Ft
Q Prior to Overtopping	29.16	CFS
Q25 Proposed Headwater Elevation	752.39	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.43	Ft
Proposed Culvert Velocity (Q25)	7.77	Ft/s
Proposed Outlet Riprap Size	Class 1	

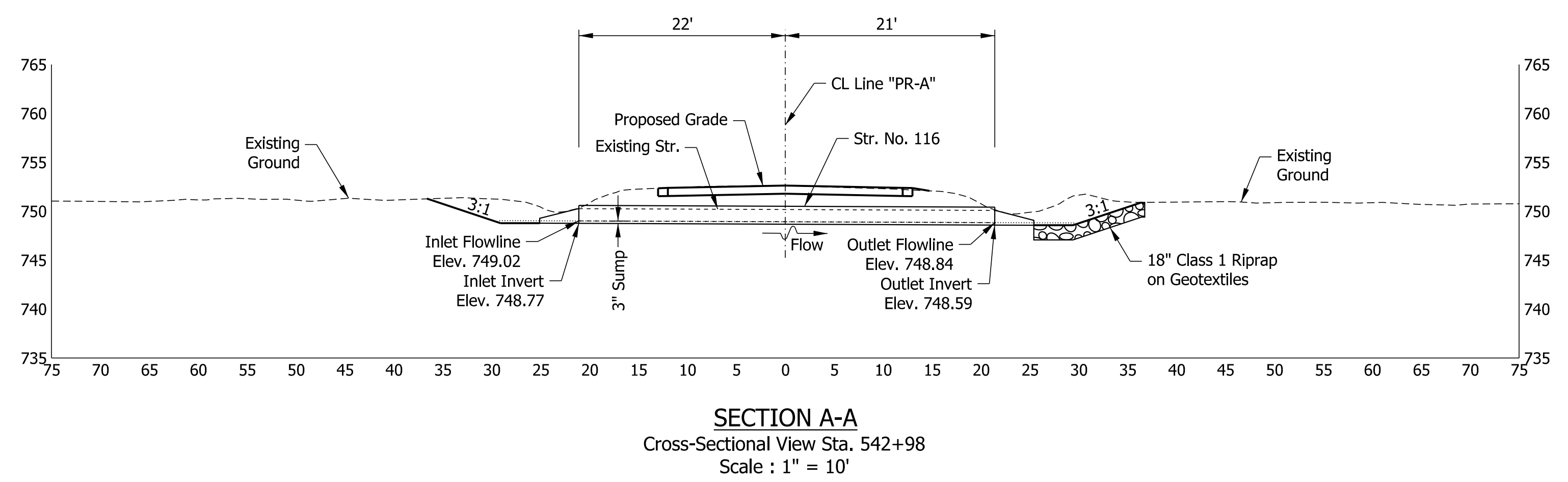
Existing Structure 15" PVC

Q100 Existing Headwater Elevation	752.83*	Ft
Q Prior to Overtopping	10.27	CFS
Q25 Existing Headwater Elevation	752.79*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	2.56	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
 Elevation View, Scale: NTS



**SECTION A-A**  
 Cross-Sectional View Sta. 542+98  
 Scale : 1" = 10'

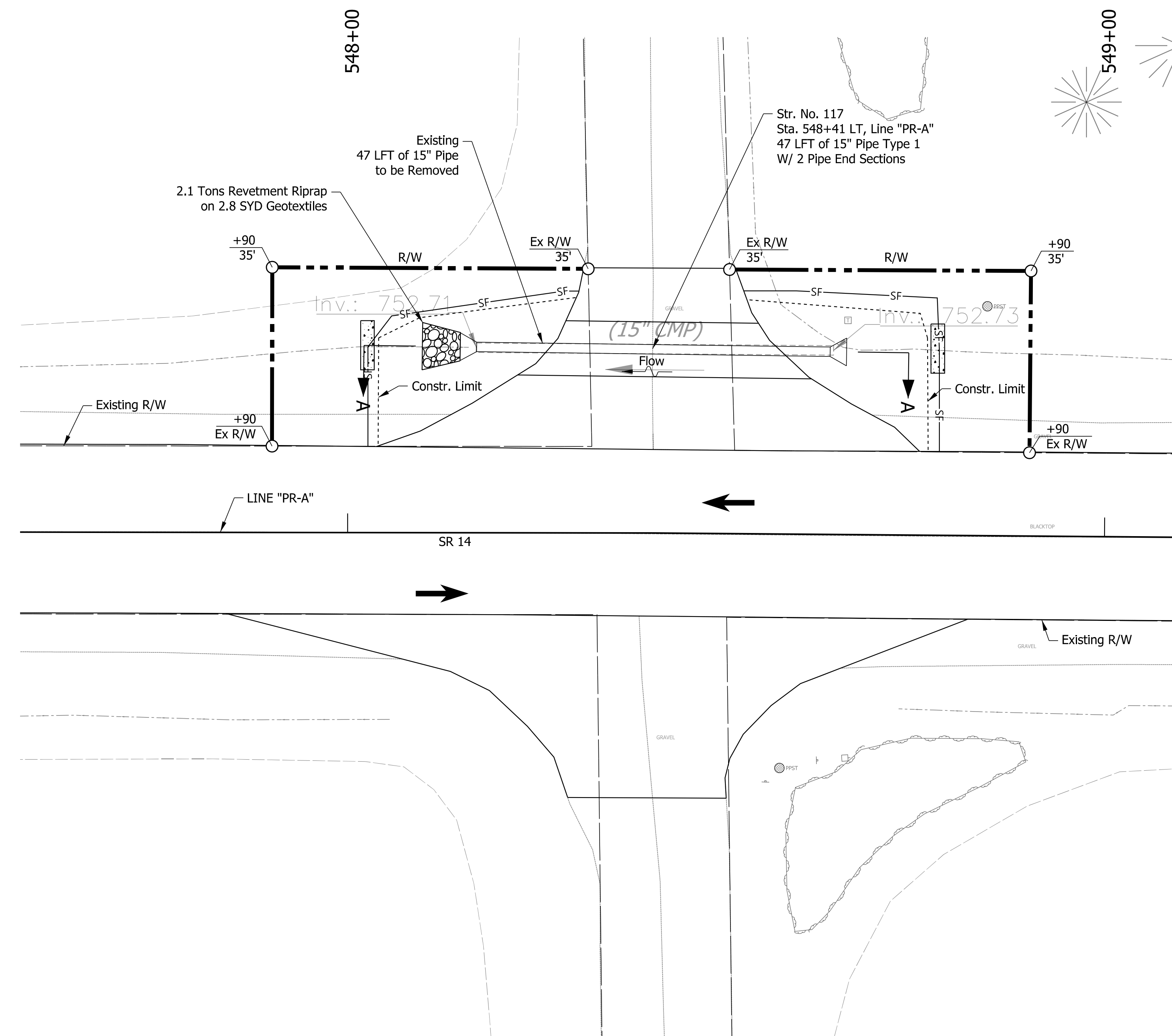
- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER		XX/XX/2020 DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

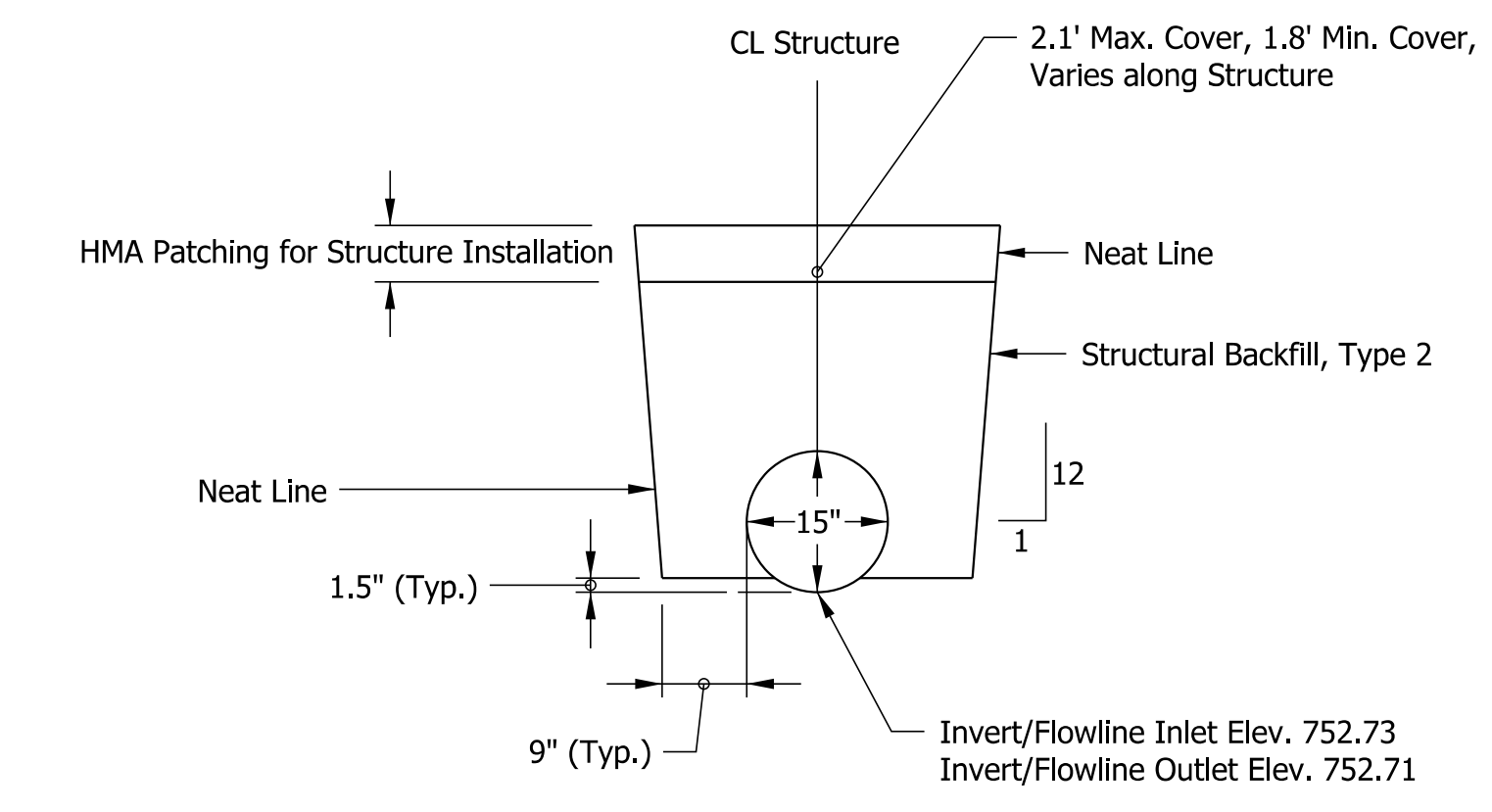
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
  
 STRUCTURE DETAILS  
 STR. NO. 116

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		DESIGNATION	1800182
		SHEETS	69 of 124
CONTRACT	RS-41443	PROJECT	1800182

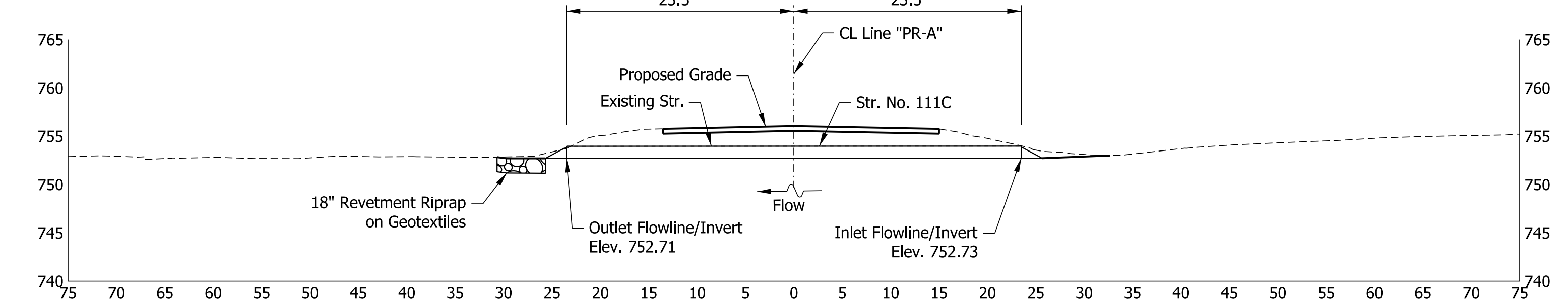
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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 258+42  
Scale : 1" = 10'

**REINFORCED CONCRETE PIPE**

SPAN: 15", RISE: 15"  
 SKEW: 0°, LINE "PR-A"  
 SR 14 OVER UNT  
 PULASKI COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	1.50	Acres
Q100 Discharge	1.92	CFS
Q10 Discharge	1.40	CFS
Q100 Water Surface Elevation (Tailwater)	0.60	Ft
Design Roadway Serviceability Elevation	755.78	Ft
<b>Proposed Structure 15" RCP</b>		
Q100 Proposed Headwater Elevation	753.63	Ft
Q10 Proposed Headwater Elevation	753.49	Ft
Meets Roadway Serviceability (Q10)	Yes	
Proposed Backwater Depth	0.30	Ft
Proposed Culvert Velocity (Q10)	2.83	Ft/s
Proposed Outlet Riprap Size	Revetment	
<b>Existing Structure 12" CMP</b>		
Q100 Existing Headwater Elevation	753.78	Ft
Q10 Existing Headwater Elevation	753.62	Ft
Meets Roadway Serviceability (Q10)	Yes	
Existing Backwater Depth	0.45	Ft

- Temporary Check Dam
- Silt Fence

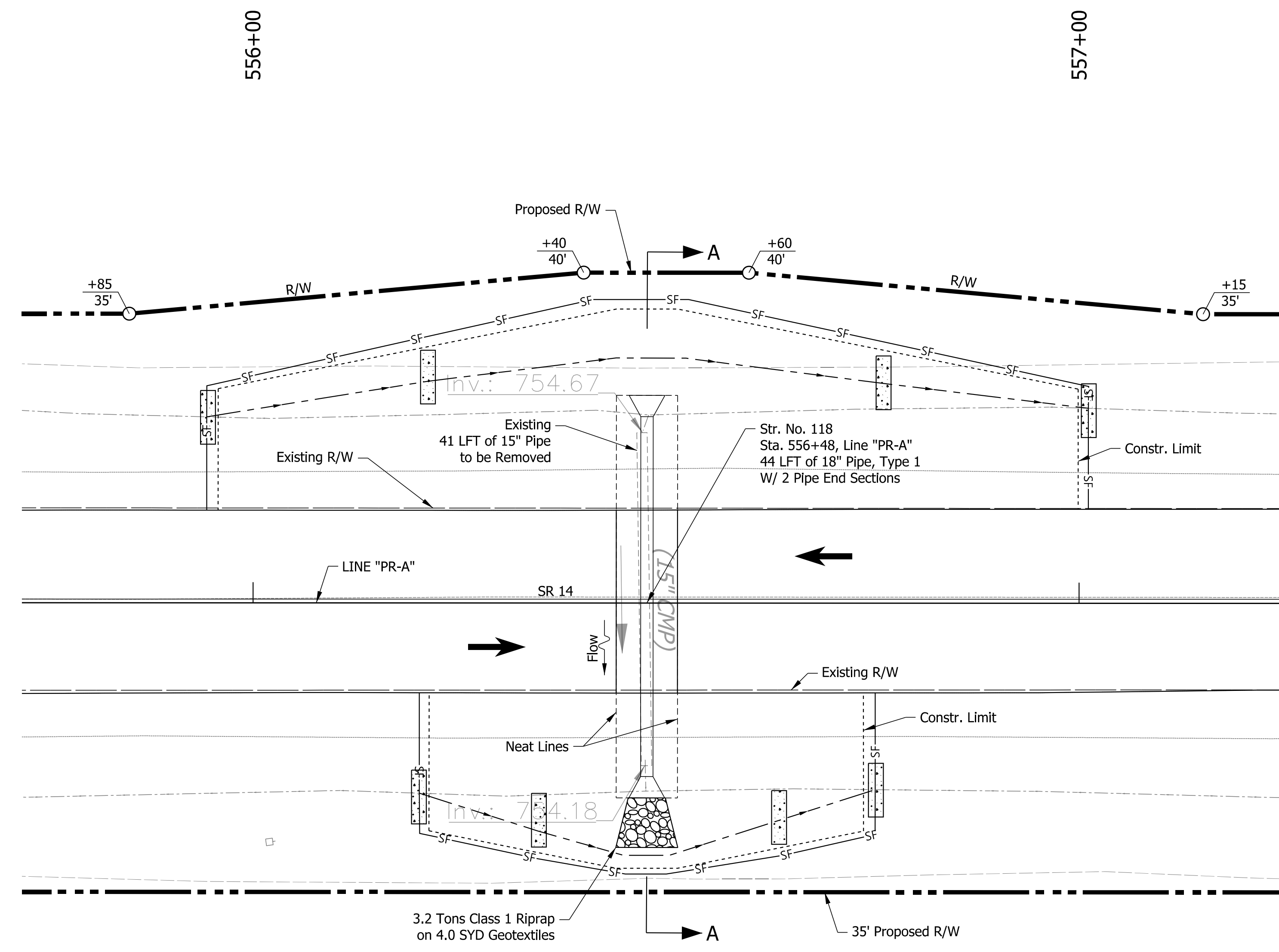
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**STRUCTURE DETAILS**  
**STR. NO. 117**

SCALE AS SHOWN	BRIDGE FILE N/A
	DESIGNATION 1800182
	SHEETS 70 of 124
CONTRACT RS-41443	PROJECT 1800182



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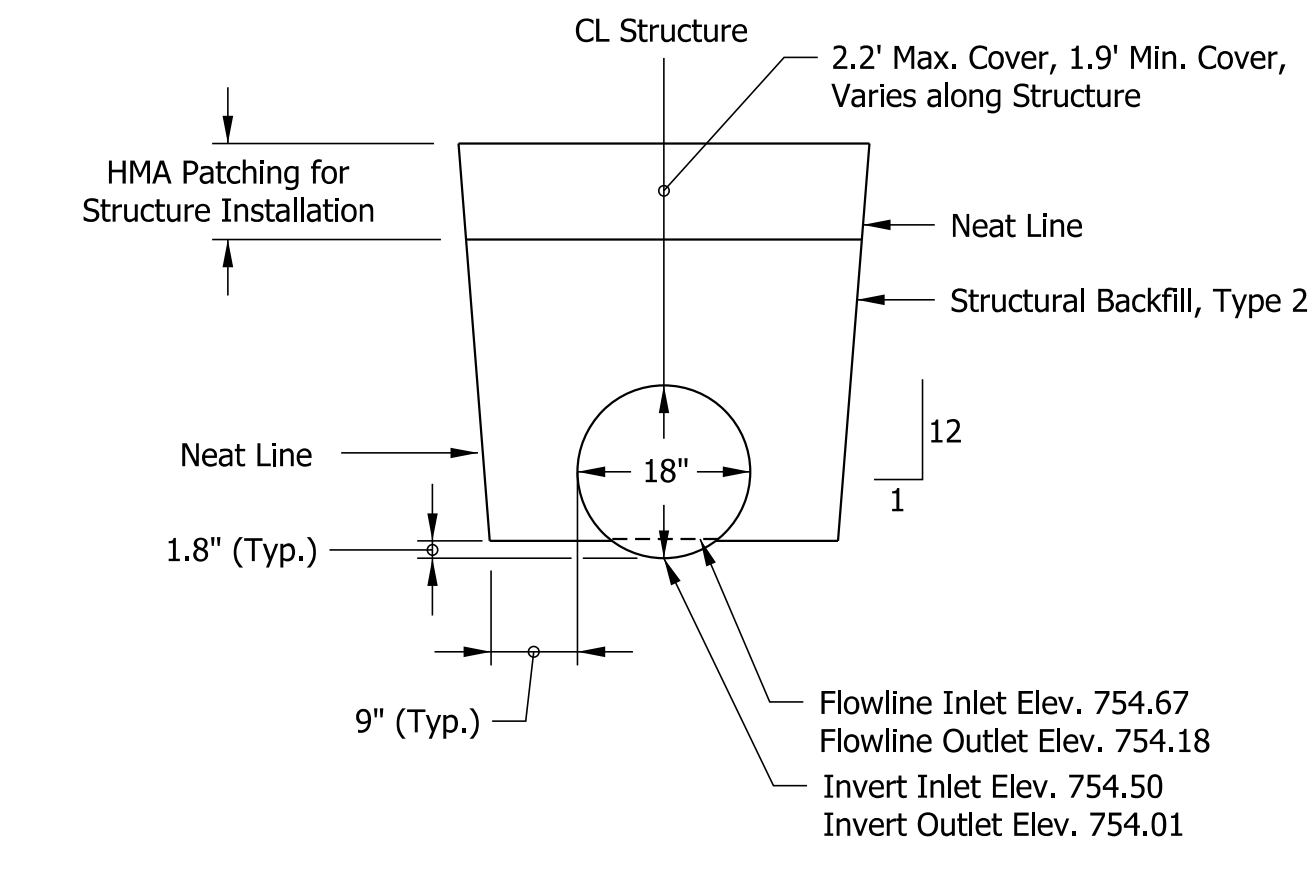


**PLAN VIEW DETAILS**  
SCALE : 1" = 10'

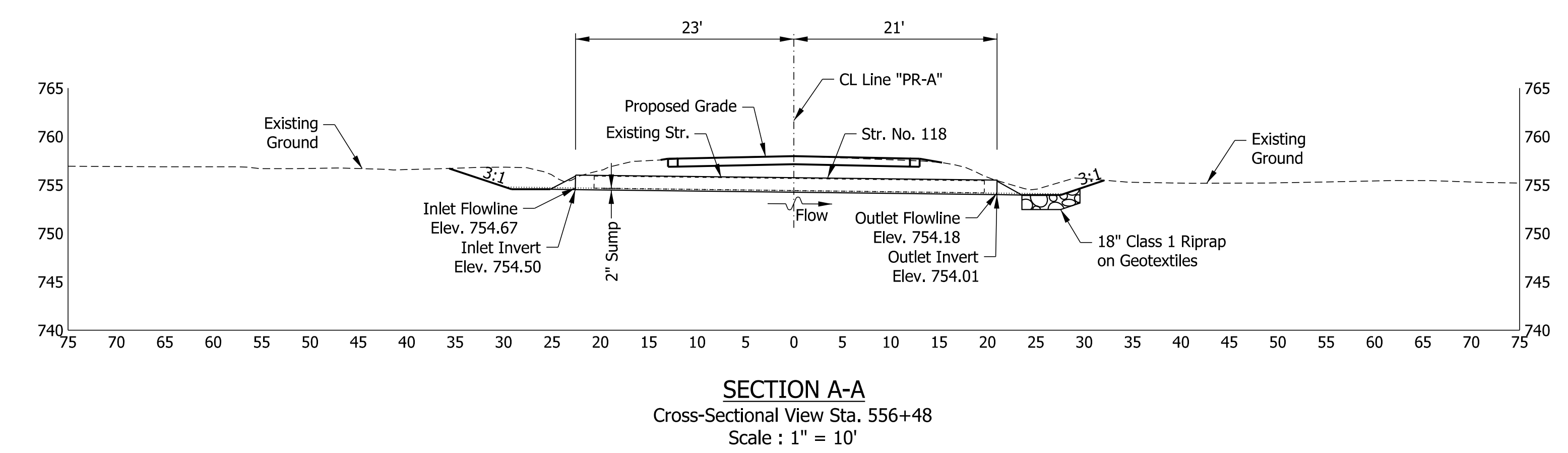
**REINFORCED CONCRETE PIPE**  
 SPAN: 18", RISE: 18"  
 SKEW: 42°, LINE "PR-A"  
 SR 14 OVER UNT  
 FULTON COUNTY, INDIANA  
**HYDRAULIC DATA**

Drainage Area	8.10	Acres
Q100 Discharge	13.55	CFS
Q25 Discharge	11.16	CFS
Q100 Water Surface Elevation (Outlet Depth)	1.07	Ft
Design Roadway Serviceability Elevation	757.75	Ft
<b>Proposed Structure 18" RCP</b>		
Q100 Proposed Headwater Elevation	759.99*	Ft
Q Prior to Overtopping	12.32	CFS
Q25 Proposed Headwater Elevation	757.51	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	2.25	Ft
Proposed Culvert Velocity (Q25)	7.24	Ft/s
Proposed Outlet Riprap Size	Class 1	
<b>Existing Structure 15" CMP</b>		
Q100 Existing Headwater Elevation	758.05*	Ft
Q Prior to Overtopping	7.04	CFS
Q25 Existing Headwater Elevation	758.03*	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	2.31	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 556+48  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

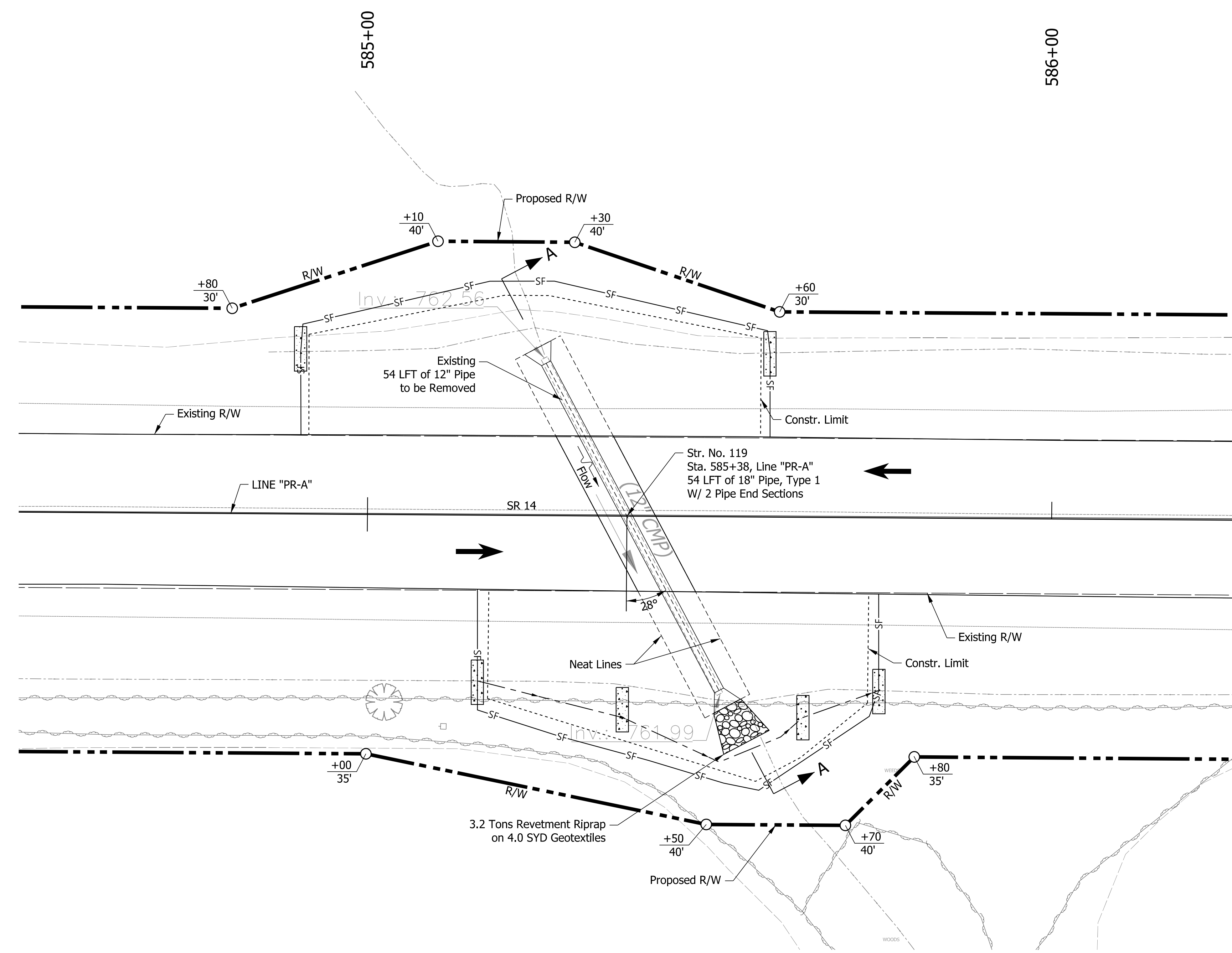
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

**STRUCTURE DETAILS**  
STR. NO. 118

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	71 of 124
	PROJECT
CONTRACT	1800182
RS-41443	

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**PLAN VIEW DETAILS**  
SCALE : 1" = 10'

**REINFORCED CONCRETE PIPE**  
 SPAN: 18", RISE: 18"  
 SKEW: 28°, LINE "PR-A"  
 SR 14 OVER UNT  
 FULTON COUNTY, INDIANA

**HYDRAULIC DATA**

Drainage Area	10.75	Acres
Q100 Discharge	13.73	CFS
Q25 Discharge	11.04	CFS
Q100 Water Surface Elevation (Tailwater)	2.01	Ft
Design Roadway Serviceability Elevation	765.98	Ft

Proposed Structure 18" RCP

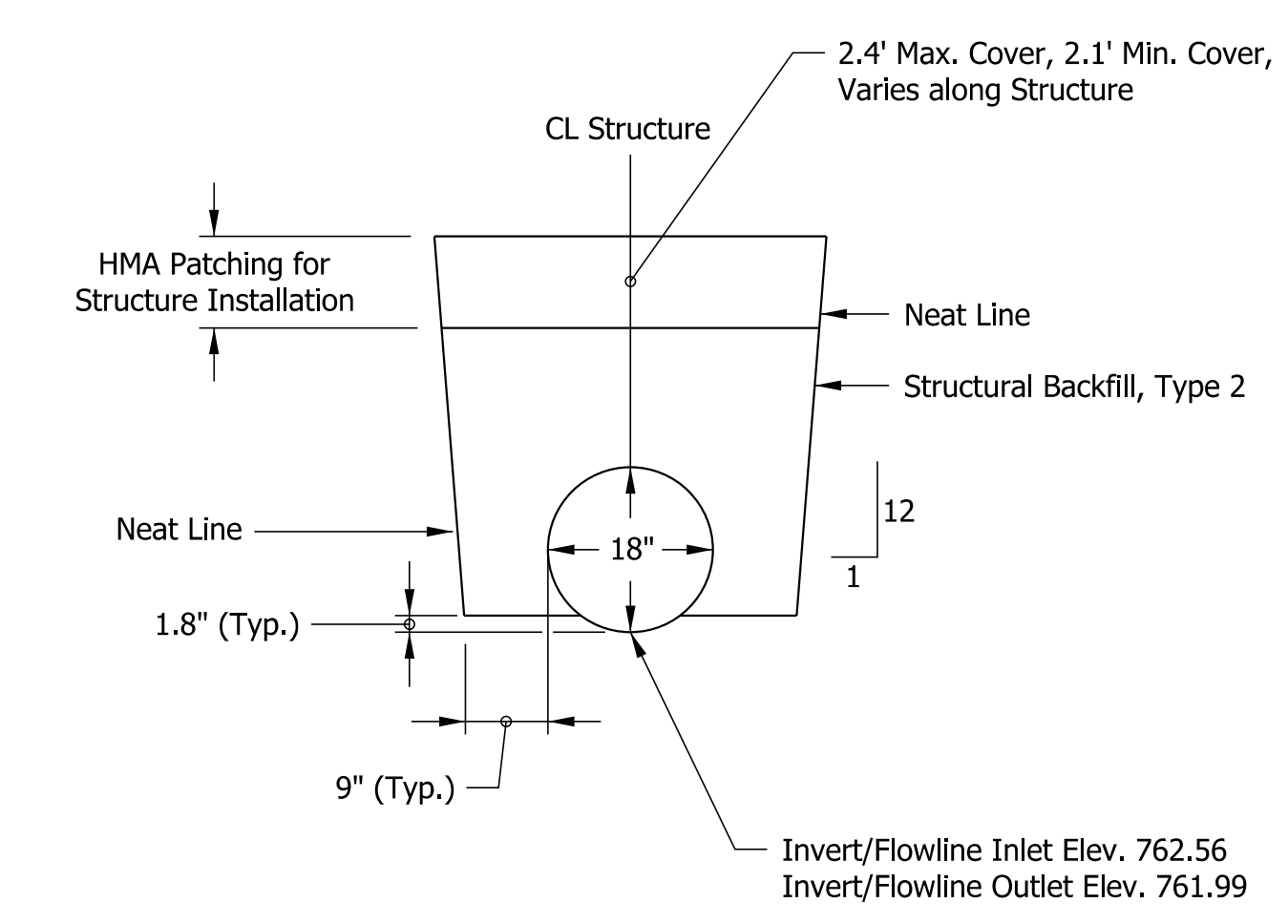
Q100 Proposed Headwater Elevation	766.19	Ft
Q Prior to Overtopping	13.77	CFS
Q25 Proposed Headwater Elevation	765.41	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	1.62	Ft
Proposed Culvert Velocity (Q25)	6.25	Ft/s
Proposed Outlet Riprap Size	Revetment	

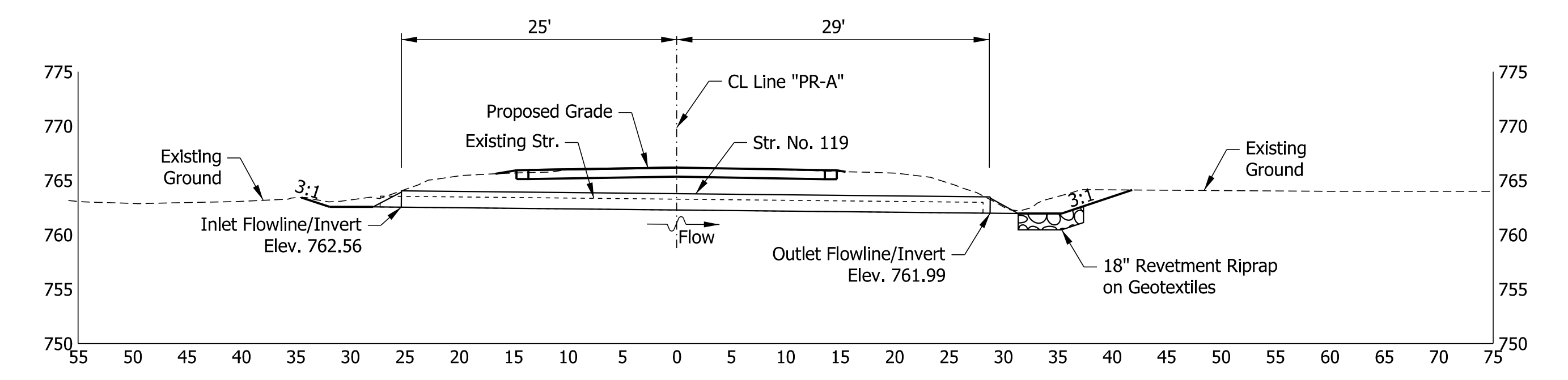
Existing Structure 12" CMP

Q100 Existing Headwater Elevation	766.31*	Ft
Q Prior to Overtopping	3.38	CFS
Q25 Existing Headwater Elevation	766.29*	Ft
Meets Roadway Serviceability (Q25)	No	
Existing Backwater Depth	1.74	Ft

\*Overtopping



**TYPICAL EXCAVATION AND BACKFILL LIMITS**  
Elevation View, Scale: NTS



**SECTION A-A**  
Cross-Sectional View Sta. 585+38  
Scale : 1" = 10'

- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

**STRUCTURE DETAILS**  
STR. NO. 119

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	72 of 124
	PROJECT
CONTRACT	1800182
RS-41443	

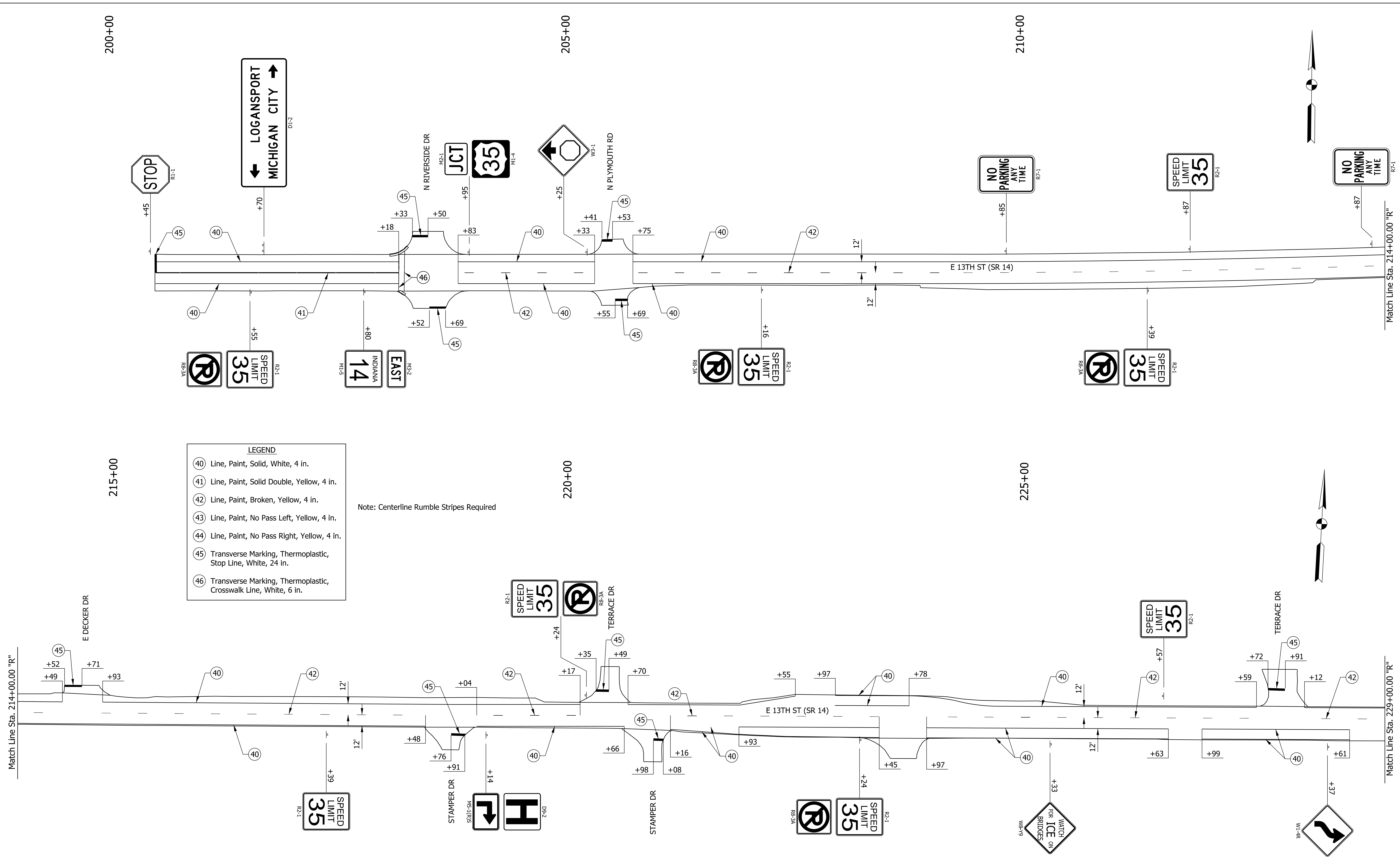


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6/3/2021

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Model: RD\_Sht\_01



**LEGEND**

- ④① Line, Paint, Solid White, 4 in.
- ④① Line, Paint, Solid Double, Yellow, 4 in.
- ④② Line, Paint, Broken, Yellow, 4 in.
- ④③ Line, Paint, No Pass Left, Yellow, 4 in.
- ④④ Line, Paint, No Pass Right, Yellow, 4 in.
- ④⑤ Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- ④⑥ Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

Note: Centerline Rumble Stripes Required

RECOMMENDED FOR APPROVAL *ENG SIGNATURES* DESIGN ENGINEER DATE

DESIGNED: RAR DRAWN: RLK

CHECKED: AH CHECKED: AH

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING DETAILS  
STA. 200+00 TO STA. 229+00 "R"

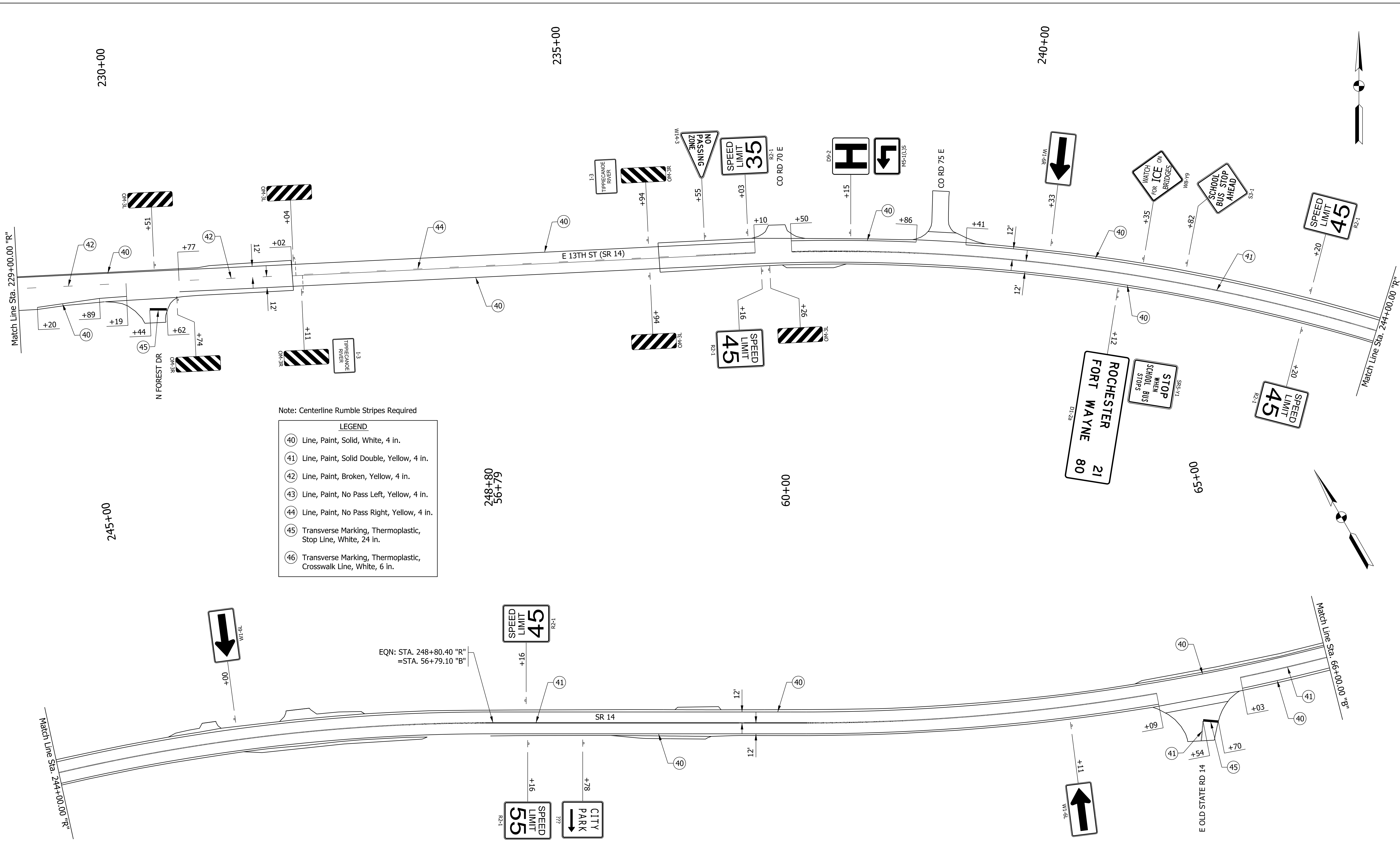
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	1800182
	SHEETS
	73 of 124
CONTRACT	PROJECT
R5-41443	1800182

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6/3/2021

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Model: RD\_Sht\_02



Note: Centerline Rumble Stripes Required

LEGEND	
(40)	Line, Paint, Solid, White, 4 in.
(41)	Line, Paint, Solid Double, Yellow, 4 in.
(42)	Line, Paint, Broken, Yellow, 4 in.
(43)	Line, Paint, No Pass Left, Yellow, 4 in.
(44)	Line, Paint, No Pass Right, Yellow, 4 in.
(45)	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46)	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN:	RLK 03/2021
CHECKED:	AH	03/2021	CHECKED:	AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 229+00 "R" TO STA. 66+00 "B"	

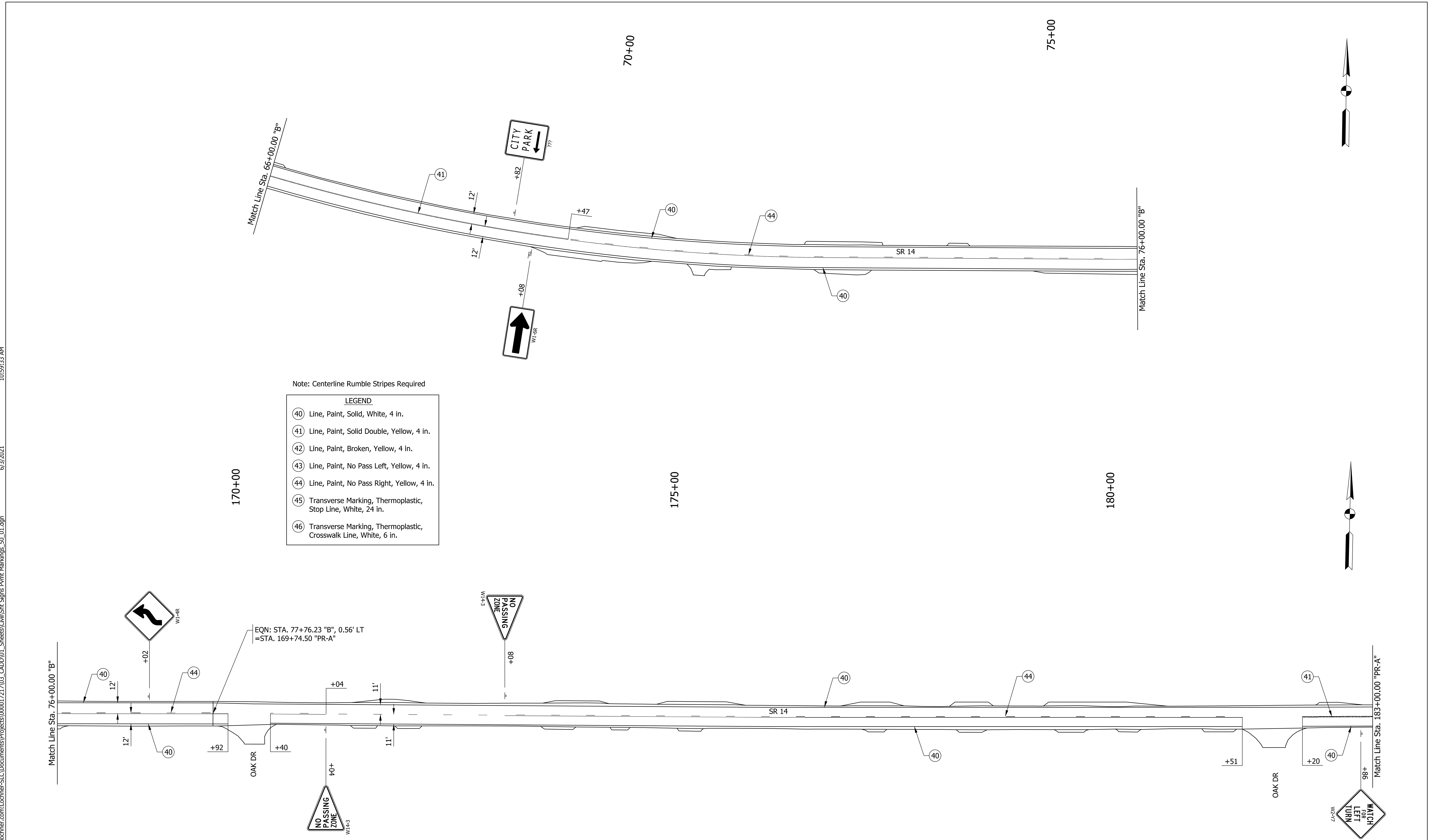
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
74 of 124	
CONTRACT	PROJECT
RS-41443	1800182



10:59:33 AM

6/3/2021

Plot: p:\v\SSLC-P\INT.h\lochner.com\Lochner-SC\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\ShT Signs Pvmr Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

**LEGEND**

- (40) Line, Paint, Solid, White, 4 in.
- (41) Line, Paint, Solid Double, Yellow, 4 in.
- (42) Line, Paint, Broken, Yellow, 4 in.
- (43) Line, Paint, No Pass Left, Yellow, 4 in.
- (44) Line, Paint, No Pass Right, Yellow, 4 in.
- (45) Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- (46) Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

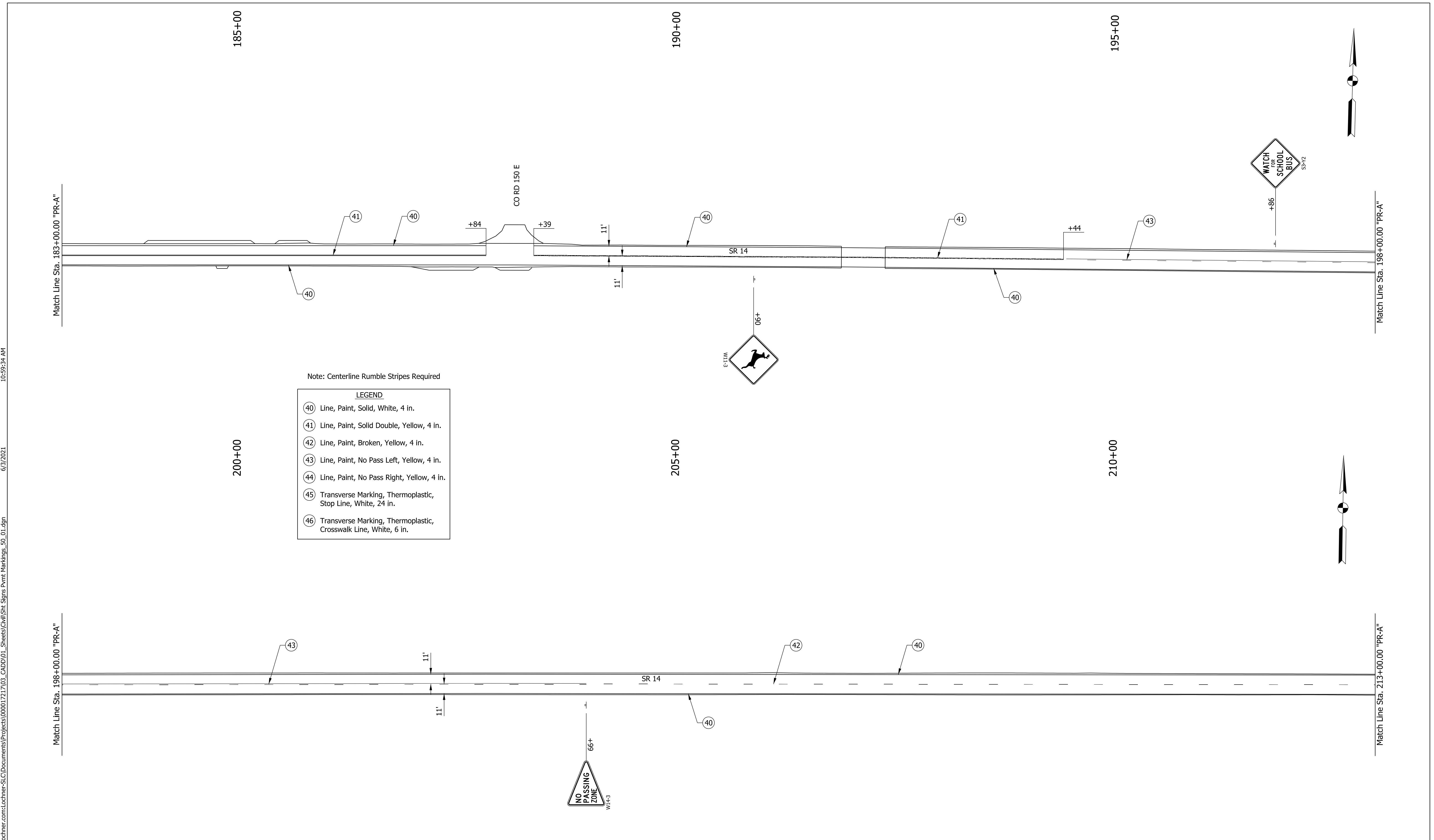
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DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 66+00 "B" TO STA. 183+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 10'	1800182	
SHEETS		
75	of	124
CONTRACT	PROJECT	
RS-41443	1800182	

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RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	
	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

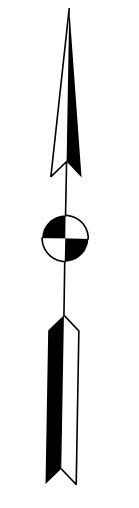
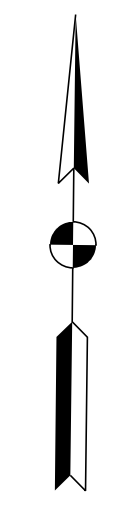
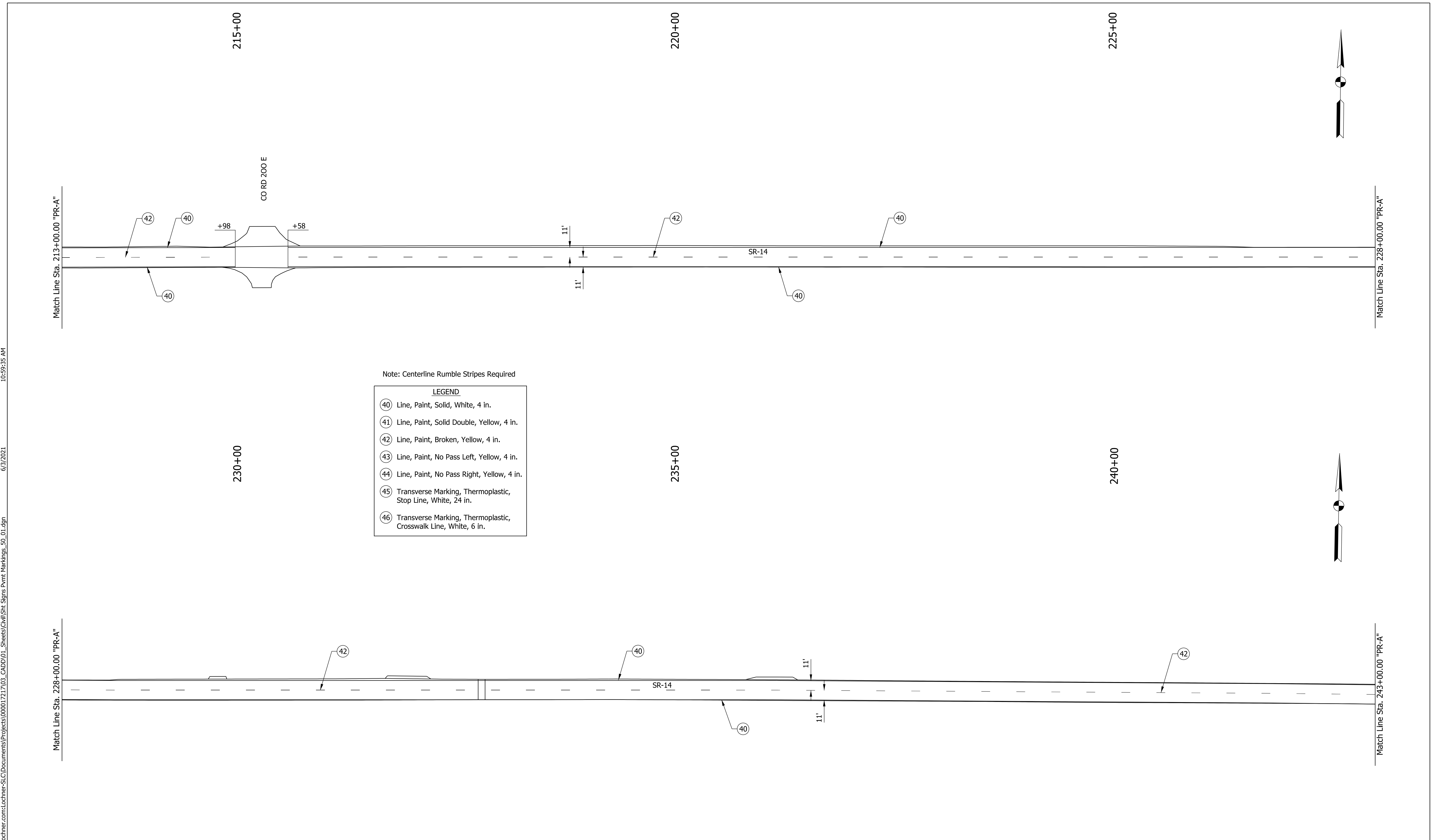
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING & SIGNING DETAILS STA. 183+00 TO STA. 213+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 10'	1800182	
SHEETS		
76 of 124		
CONTRACT	PROJECT	
RS-41443	1800182	

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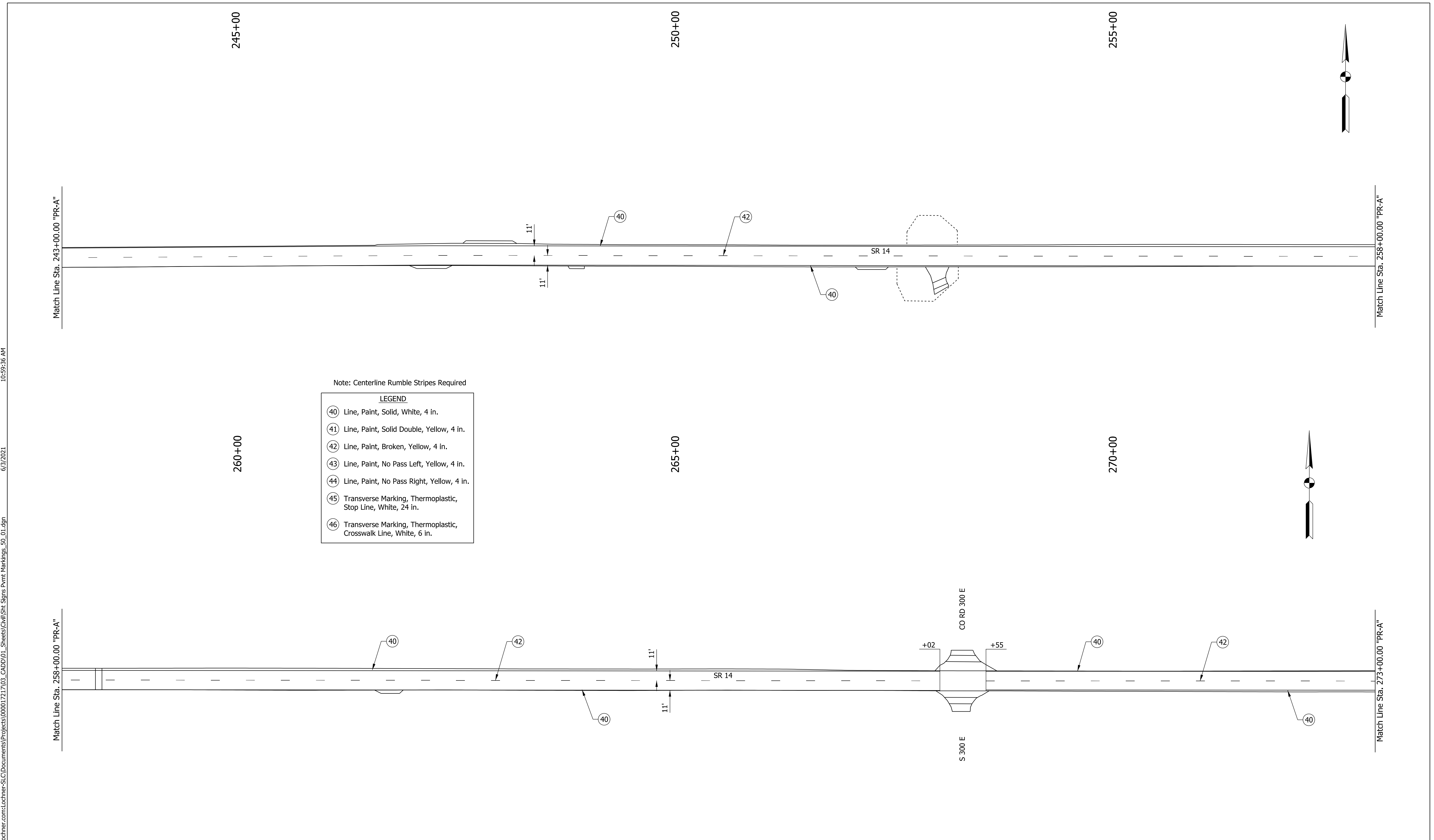


RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 213+00 TO STA. 243+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
77 of 124	
CONTRACT	PROJECT
RS-41443	1800182

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 6/3/2021 10:59:36 AM



Note: Centerline Rumble Stripes Required

LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING & SIGNING DETAILS**  
**STA. 243+00 TO STA. 273+00 "PR-A"**

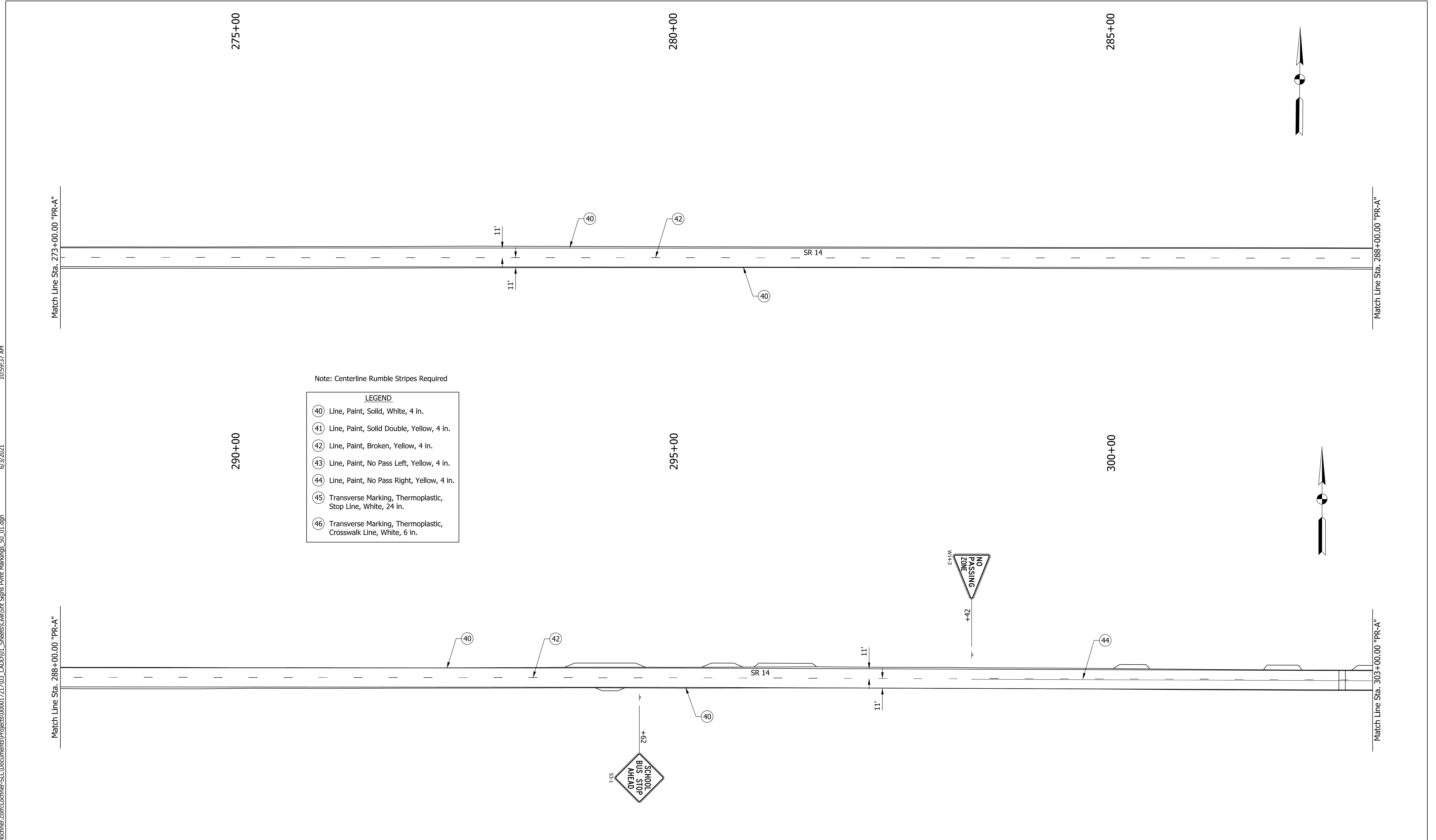
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VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
78 of 124	
CONTRACT	PROJECT
RS-41443	1800182



10:59:37 AM

6/3/2021

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RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	
	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

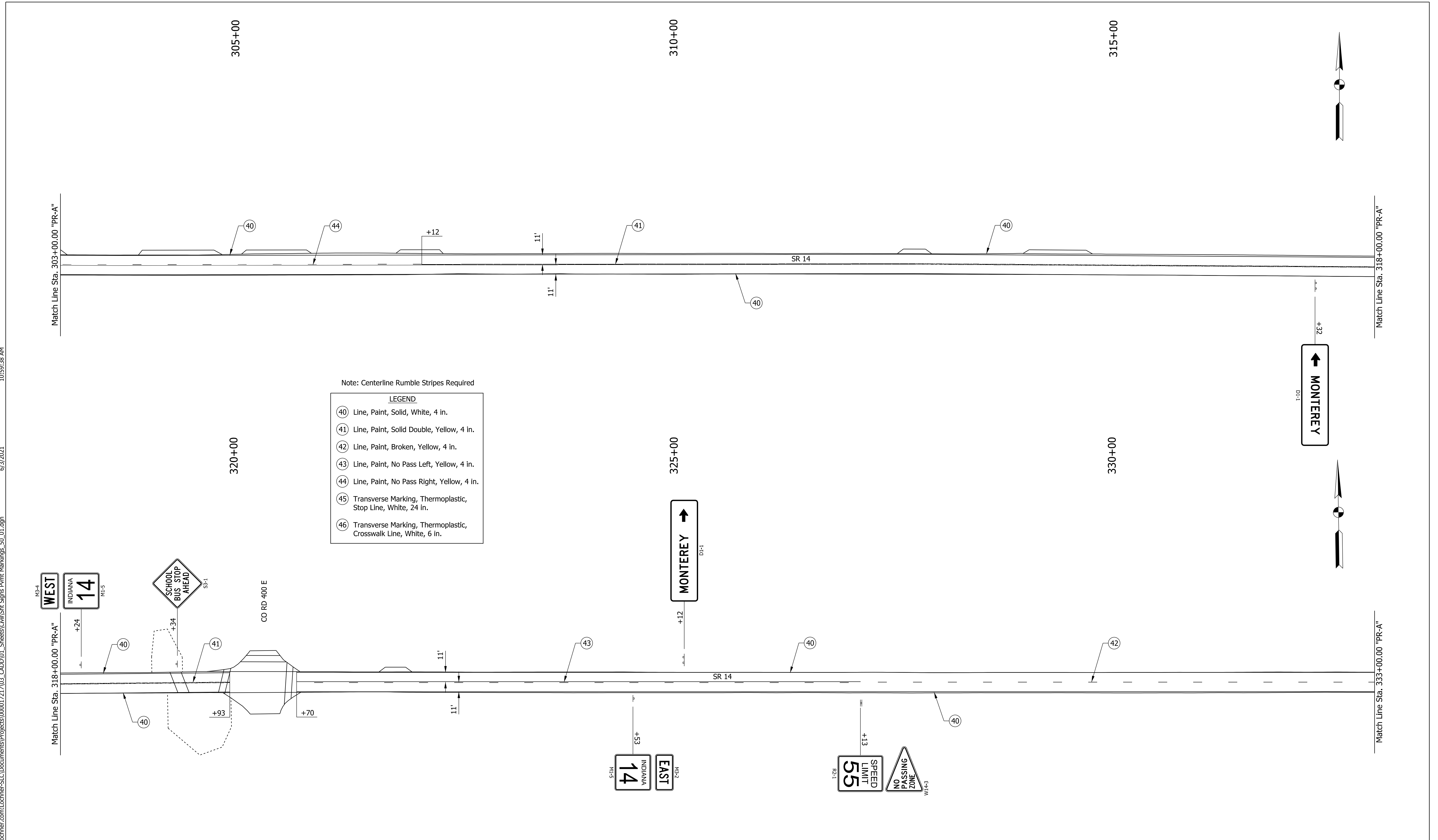
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING & SIGNING DETAILS STA. 273+00 TO STA. 303+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
79 of 124	
CONTRACT	PROJECT
RS-41443	1800182

10:59:38 AM

6/3/2021

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Note: Centerline Rumble Stripes Required

**LEGEND**

- ④0 Line, Paint, Solid, White, 4 in.
- ④1 Line, Paint, Solid Double, Yellow, 4 in.
- ④2 Line, Paint, Broken, Yellow, 4 in.
- ④3 Line, Paint, No Pass Left, Yellow, 4 in.
- ④4 Line, Paint, No Pass Right, Yellow, 4 in.
- ④5 Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- ④6 Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

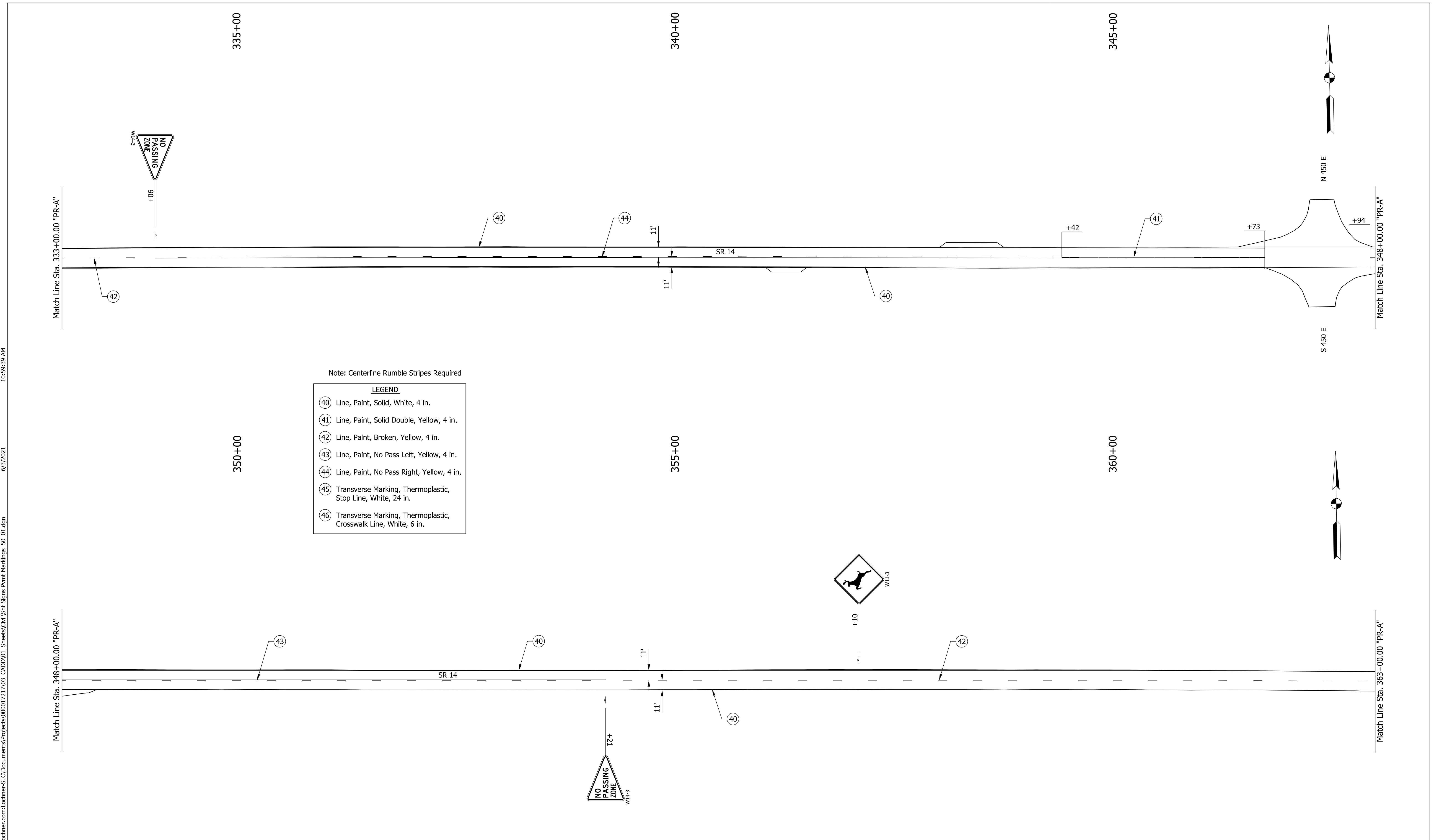
INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS STA. 303+00 TO STA. 333+00 "PR-A"</b>	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
80 of 124	
CONTRACT	PROJECT
RS-41443	1800182

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 6/3/2021 10:59:39 AM



Note: Centerline Rumble Stripes Required

**LEGEND**

- (40) Line, Paint, Solid, White, 4 in.
- (41) Line, Paint, Solid Double, Yellow, 4 in.
- (42) Line, Paint, Broken, Yellow, 4 in.
- (43) Line, Paint, No Pass Left, Yellow, 4 in.
- (44) Line, Paint, No Pass Right, Yellow, 4 in.
- (45) Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- (46) Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

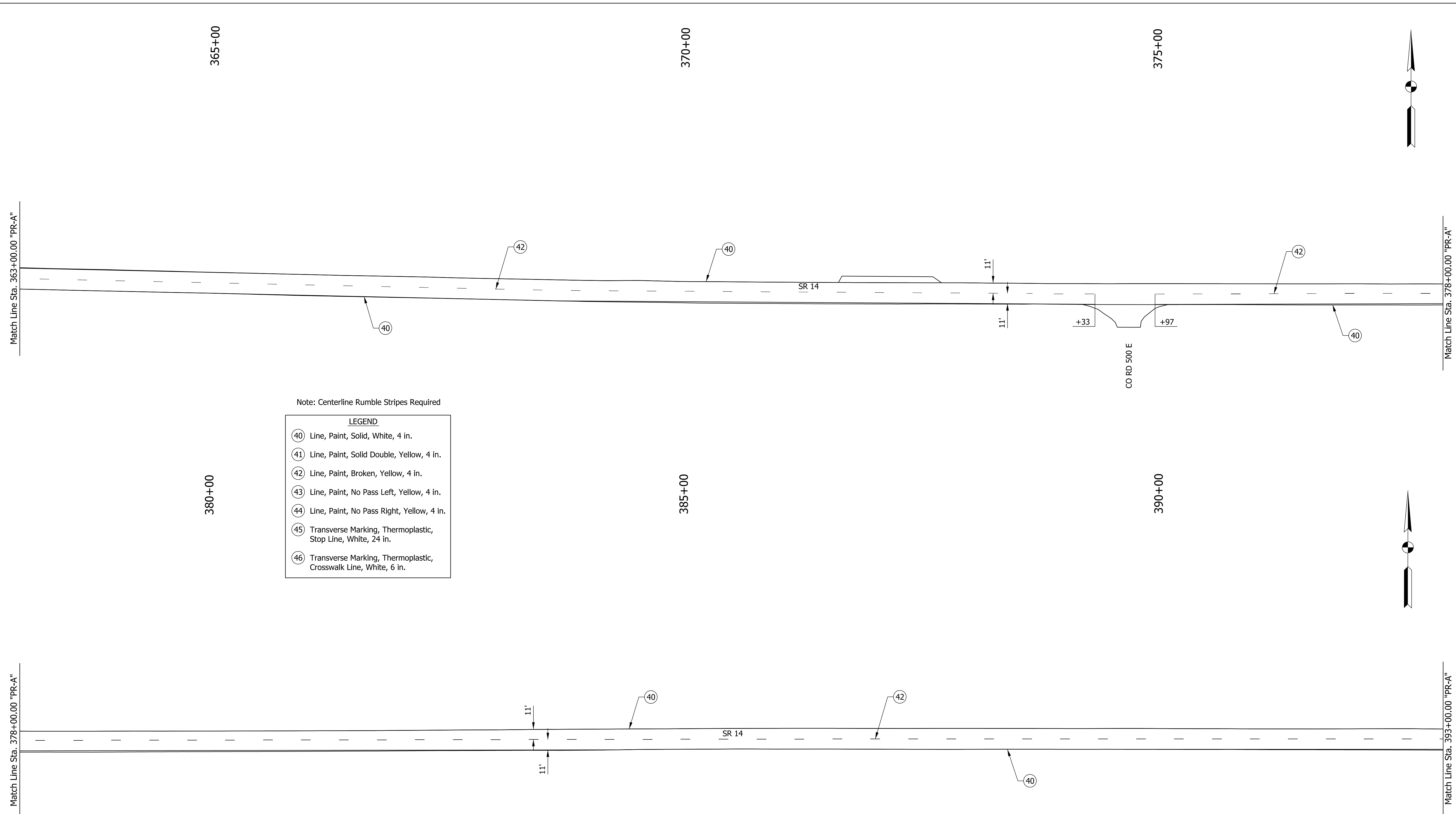
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	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 333+00 TO STA. 363+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
81 of 124	
CONTRACT	PROJECT
RS-41443	1800182

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 Model:RD\_Sht\_09

Plot: pw:\VSSLC-PW\INT\hwochner.com\Lochner-SLC\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Sh Signs Pvmr Markings\_50\_01.dgn  
 6/3/2021 10:59:39 AM



Note: Centerline Rumble Stripes Required

LEGEND	
④0	Line, Paint, Solid, White, 4 in.
④1	Line, Paint, Solid Double, Yellow, 4 in.
④2	Line, Paint, Broken, Yellow, 4 in.
④3	Line, Paint, No Pass Left, Yellow, 4 in.
④4	Line, Paint, No Pass Right, Yellow, 4 in.
④5	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
④6	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	
	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS STA. 363+00 TO STA. 393+00 "PR-A"</b>	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
82 of 124	
CONTRACT	PROJECT
RS-41443	1800182

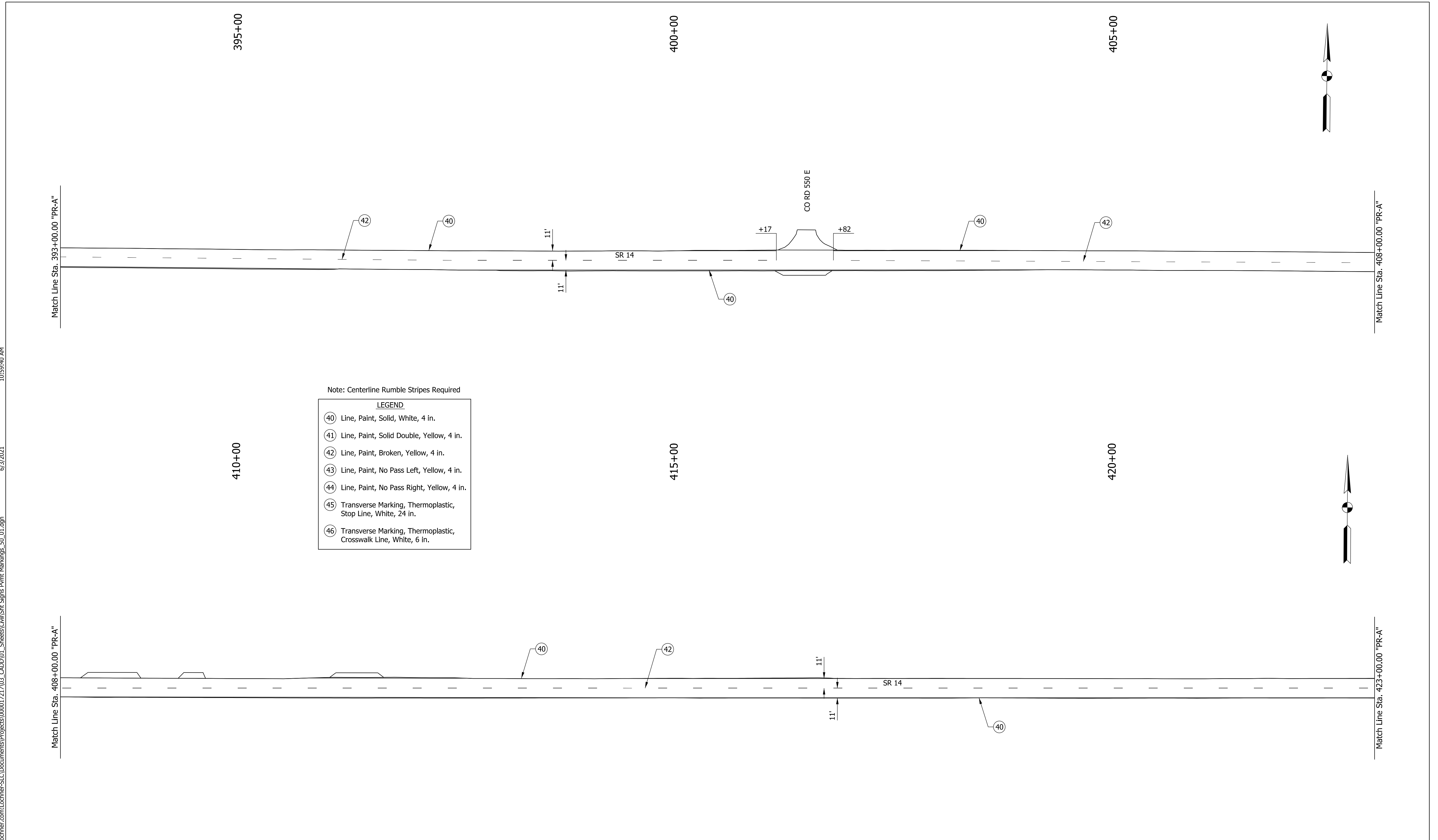
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6/3/2021

Plot: pw:\VSSLC-PW\INT\hwochner.com\Lochner-SLC\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Sht Signs Pvmt Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

LEGEND	
(40)	Line, Paint, Solid, White, 4 in.
(41)	Line, Paint, Solid Double, Yellow, 4 in.
(42)	Line, Paint, Broken, Yellow, 4 in.
(43)	Line, Paint, No Pass Left, Yellow, 4 in.
(44)	Line, Paint, No Pass Right, Yellow, 4 in.
(45)	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46)	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

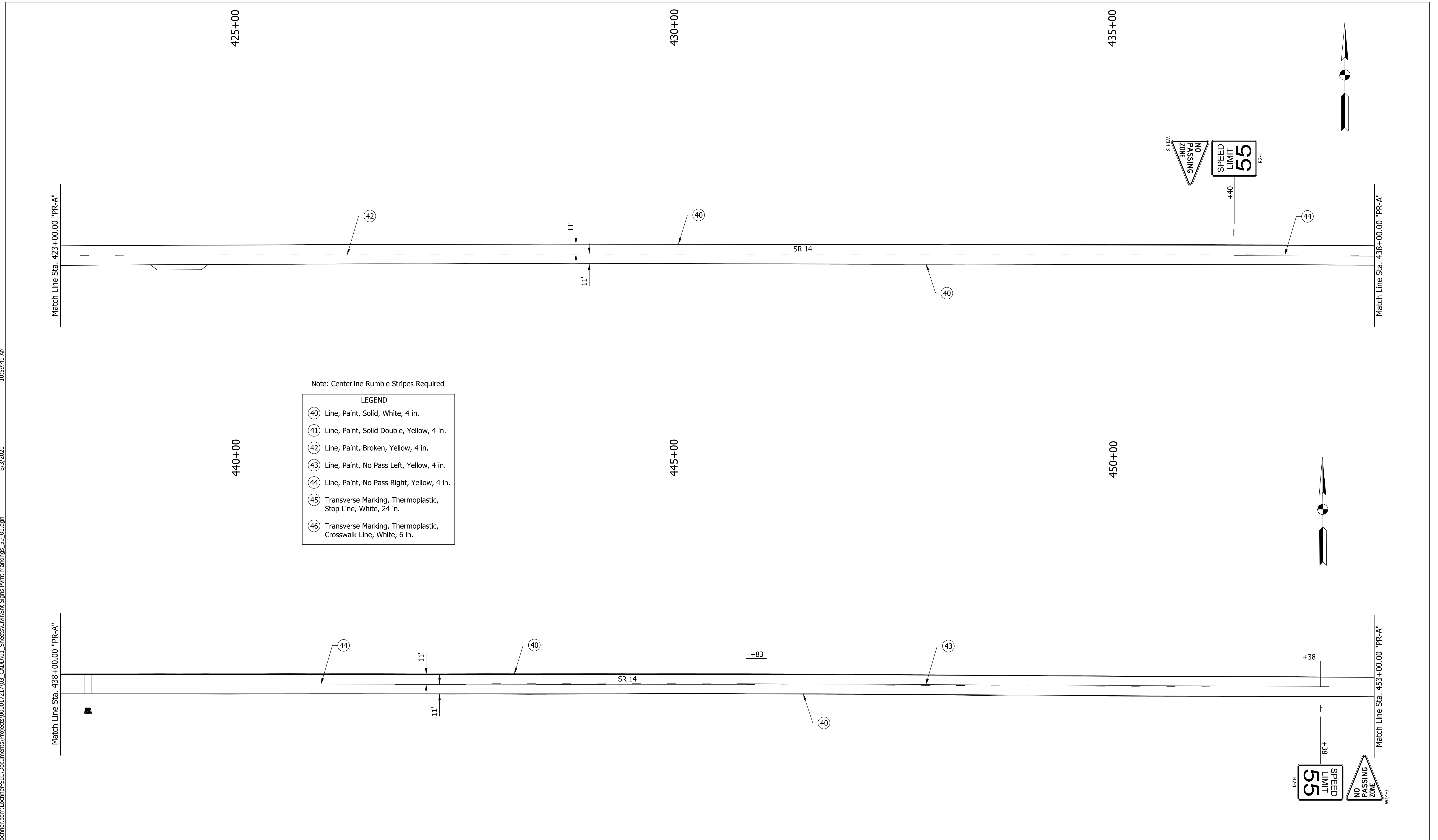
INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 393+00 TO STA. 423+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
83 of 124	
CONTRACT	PROJECT
RS-41443	1800182

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6/3/2021

Plot: p:\v\SSLC-PW\INT\h\lochner.com\Projects\00001721703\_CADD\01\_Sheets\Civil\Sht Signs Pvmnt Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>SENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN:	RLK 03/2021
CHECKED:	AH	03/2021	CHECKED:	AH 03/2021

INDIANA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING & SIGNING DETAILS  
STA. 423+00 TO STA. 453+00 "PR-A"**

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 10'	1800182	
SHEETS		
84 of 124		
PROJECT		
1800182		

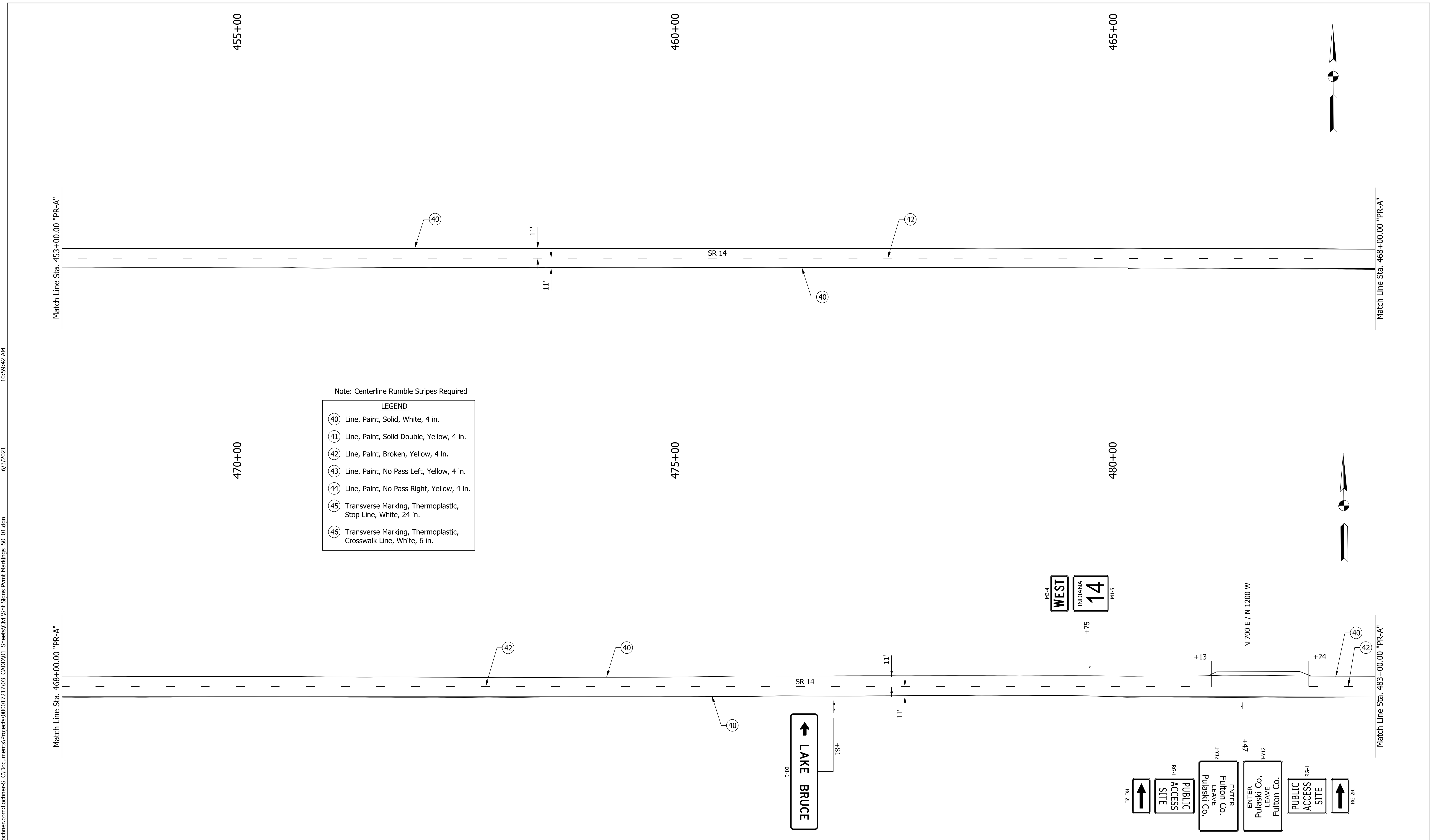
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6/3/2021

Plot: p:\v\SSLC-PW\INT:\h\lochner-slc\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Sht Signs Pvmt Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

**LEGEND**

- ④① Line, Paint, Solid, White, 4 in.
- ④② Line, Paint, Solid Double, Yellow, 4 in.
- ④③ Line, Paint, Broken, Yellow, 4 in.
- ④④ Line, Paint, No Pass Left, Yellow, 4 in.
- ④⑤ Line, Paint, No Pass Right, Yellow, 4 in.
- ④⑥ Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- ④⑦ Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

**INDIANA DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING DETAILS**  
STA. 453+00 TO STA. 483+00 "PR-A"

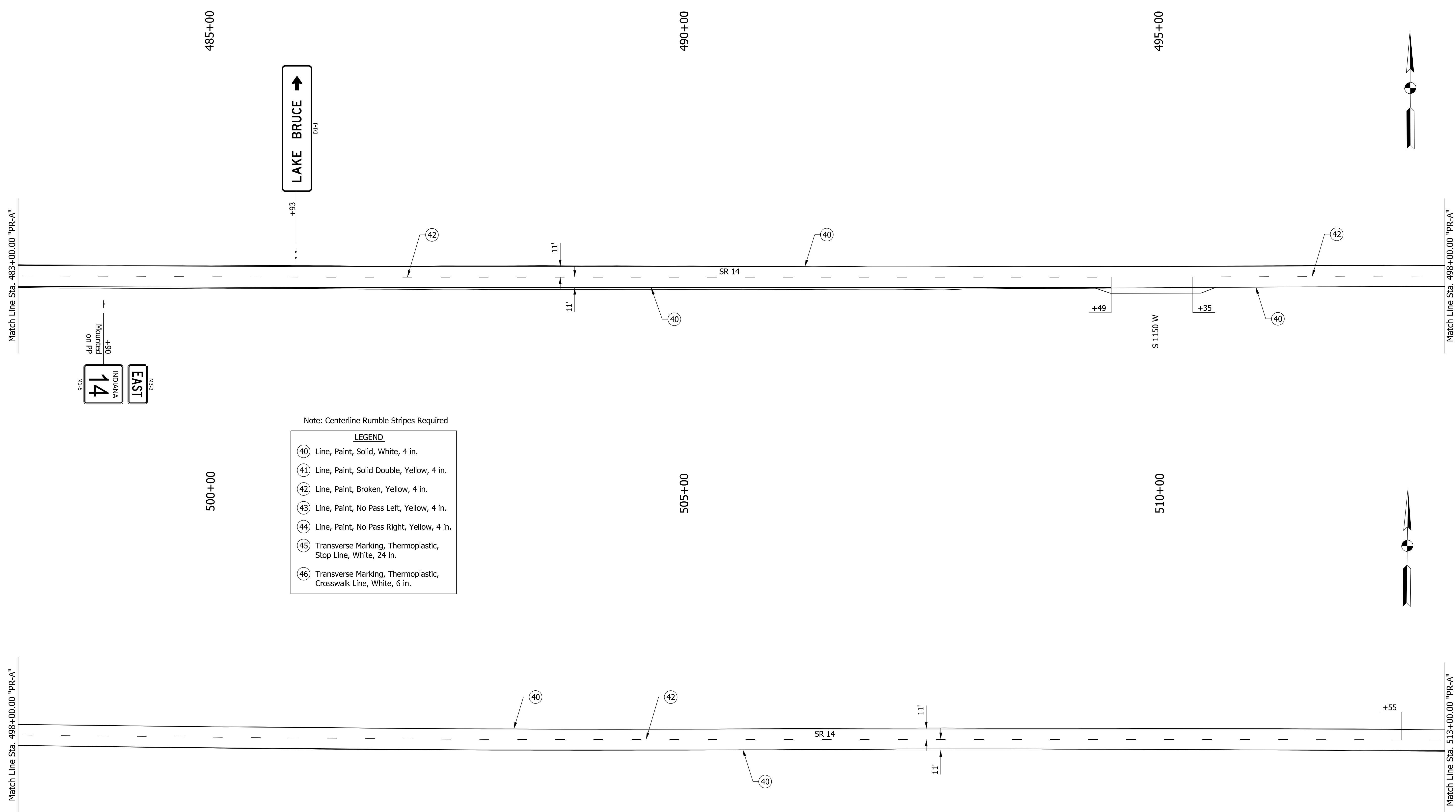
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1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 10'	1800182	
SHEETS		
85 of 124		
CONTRACT	PROJECT	
RS-41443	1800182	

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Model:RD\_Sht\_13

10:59:43 AM

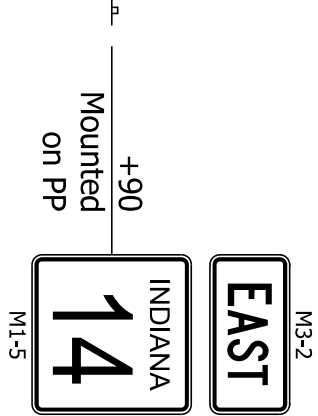
6/3/2021

File: c:\pw\_working\lochner-slc\jsherrick\d0130095\Sht Signs Pvm Markings\_50\_01.dgn  
Model:RD\_Sht\_14



Note: Centerline Rumble Stripes Required

LEGEND	
(40)	Line, Paint, Solid, White, 4 in.
(41)	Line, Paint, Solid Double, Yellow, 4 in.
(42)	Line, Paint, Broken, Yellow, 4 in.
(43)	Line, Paint, No Pass Left, Yellow, 4 in.
(44)	Line, Paint, No Pass Right, Yellow, 4 in.
(45)	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46)	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.



RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 483+00 TO STA. 513+00 "PR-A"	

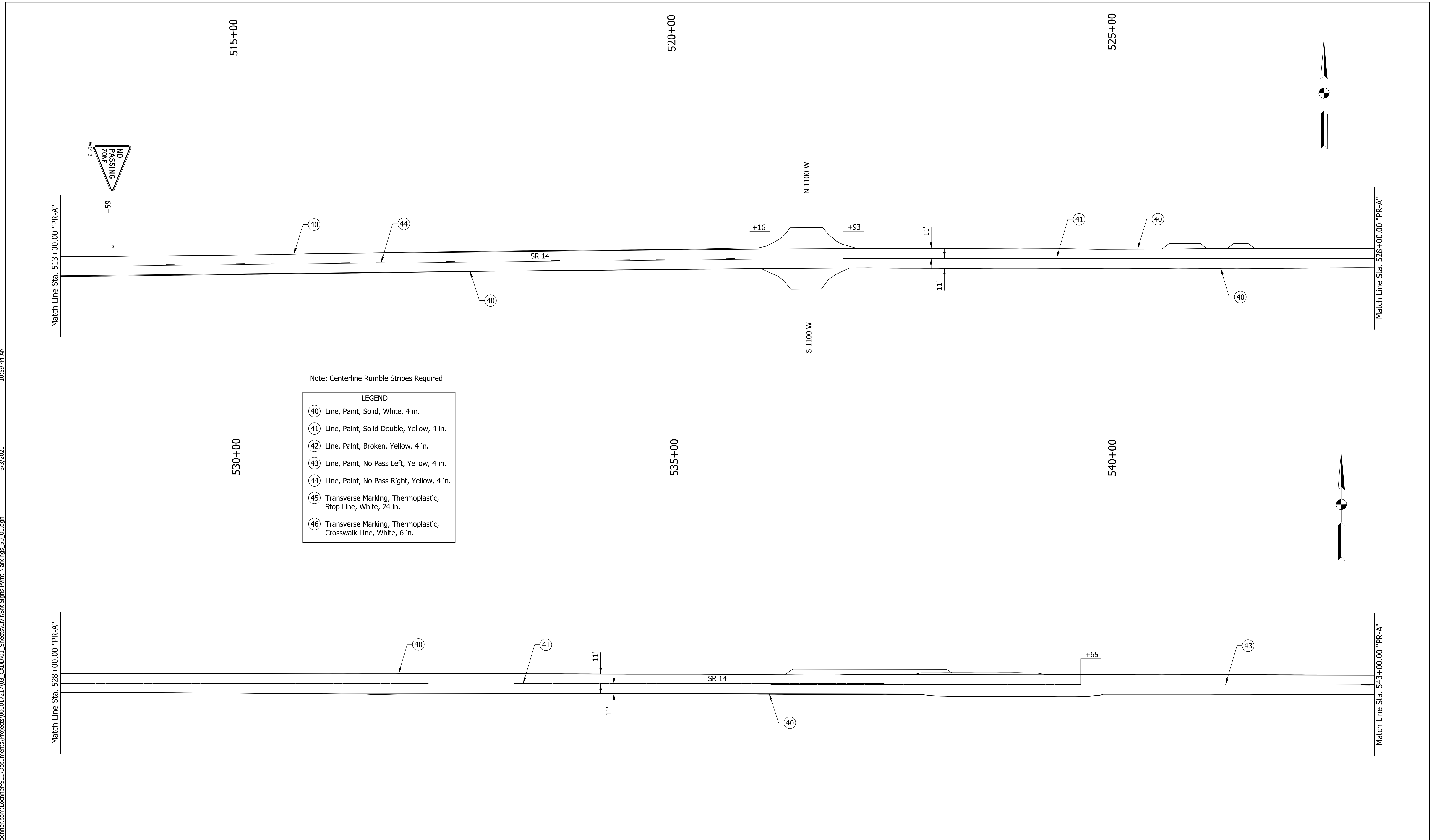
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
86 of 124	
CONTRACT	PROJECT
RS-41443	1800182



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6/3/2021

Plot: p:\v\SSLC-PW\INT.h\lochner.com\Lochner-S\Documents\Projects\000017217\03\_CADD\01\_Sheets\Civil\Sht Signs Pmnt Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

LEGEND	
(40)	Line, Paint, Solid, White, 4 in.
(41)	Line, Paint, Solid Double, Yellow, 4 in.
(42)	Line, Paint, Broken, Yellow, 4 in.
(43)	Line, Paint, No Pass Left, Yellow, 4 in.
(44)	Line, Paint, No Pass Right, Yellow, 4 in.
(45)	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46)	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

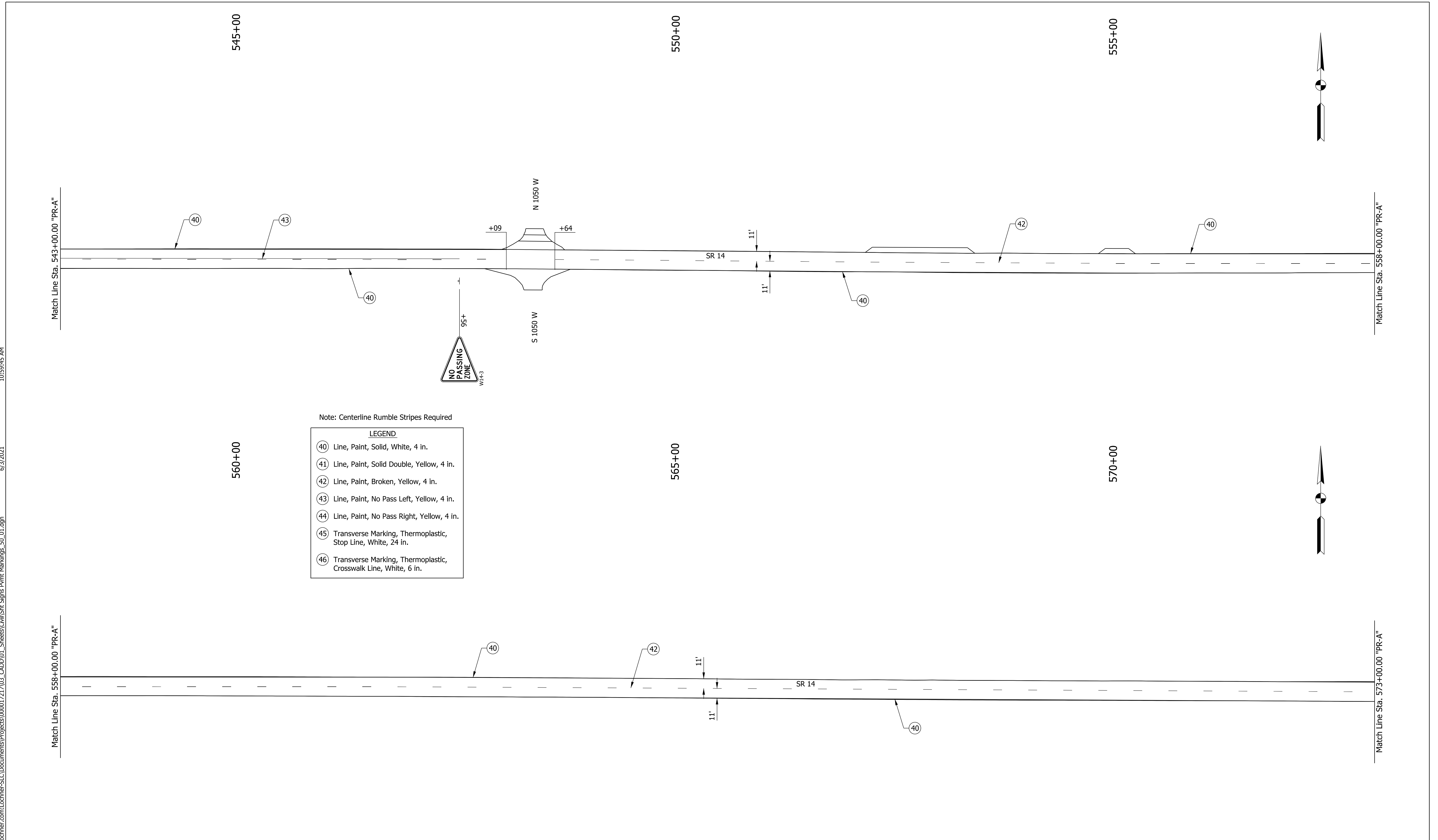
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DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS STA. 513+00 TO STA. 543+00 "PR-A"</b>	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
87 of 124	
CONTRACT	PROJECT
RS-41443	1800182

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Note: Centerline Rumble Stripes Required

LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 543+00 TO STA. 573+00 "PR-A"	

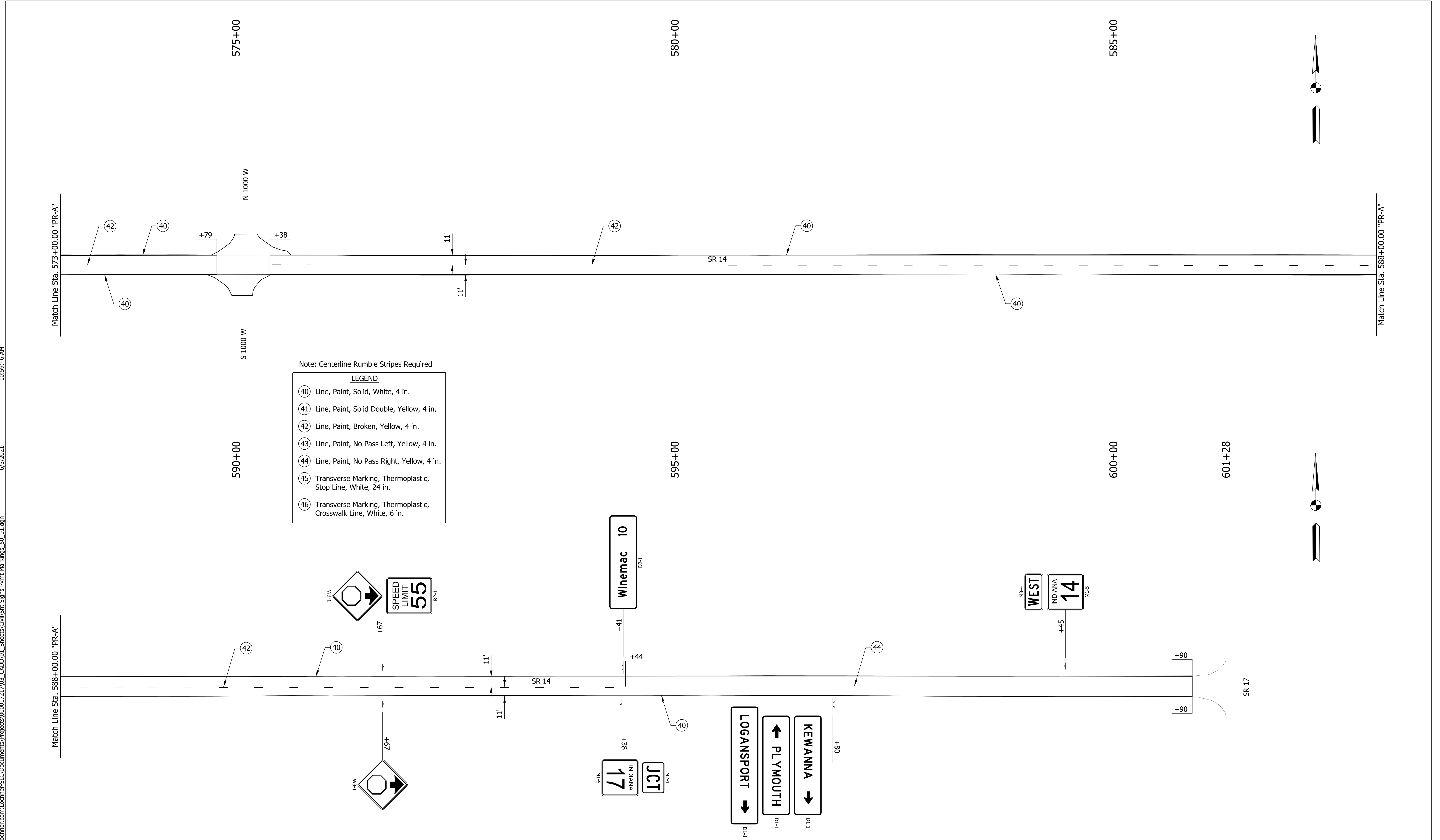
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
88 of 124	
CONTRACT	PROJECT
RS-41443	1800182

File: c:\pw\_working\lochner-slc\jsherrick\d0130095\Sht Signs Pmnt Markings\_50\_01.dgn  
 Model:RD\_Sht\_16

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6/3/2021

Plot: p:\v\SSLC-PW\INT\h\lochner.com\Lochner-SLC\Documents\Projects\000017217\03\_CADD\01\_Sheets\Civil\ShT Signs Pvmt Markings\_50\_01.dgn



Note: Centerline Rumble Stripes Required

LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, Thermoplastic, Crosswalk Line, White, 6 in.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN:	RLK 03/2021
CHECKED:	AH	03/2021	CHECKED:	AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>PAVEMENT MARKING &amp; SIGNING DETAILS</b> STA. 573+00 TO STA. 601+28 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
89 of 124	
CONTRACT	PROJECT
RS-41443	1800182



**RESURFACING, MILLING & COMPACTED AGGREGATE SUMMARY TABLE**

Station	Widths (feet)*					Type of Treat.	Areas (sys)**			Full Depth Reclamation		Miling (sys)**		Joint Adhesive		Description/ Comments	
	Left Shoulder		Mainline	Right Shoulder			Mainline	Shoulder		Area (sys)	Stabilizing Material (tons)	Profile	Asphalt 4.0 in.	Surface (lft)	Intermed. (lft)		
	Agg.	HMA		HMA	Agg.			HMA	Agg.								
200+51 "R"			40.0			Funct.										BEGIN PROJECT - LINE "R"	
203+08 "R"			40.0			Funct.	1142					1142	257	257			
203+08 "R"			38.0			Funct.										Change in width	
203+18 "R"			40.0			Funct.	43					43	10	10			
205+29 "R"			40.0			Funct.	938					938	211	211			
205+82 "R"			36.5			Funct.	225					225	53	53			
206+37 "R"			34.0			Funct.	215					215	55	55			
208+90 "R"			34.0			Funct.	956					956	253	253			
208+91 "R"			37.0			Funct.	4					4	1	1			
209+64 "R"			39.0			Funct.	308					308	73	73			
211+34 "R"			39.0			Funct.	737					737	170	170			
213+21 "R"			37.0			Funct.	790					790	187	187			
213+24 "R"			34.0			Funct.	12					12	3	3			
214+32 "R"			34.0			Funct.	408					408	108	108			
214+37 "R"			35.0			Funct.	19					19	5	5			
214+46 "R"			35.0			Funct.	35					35	9	9			
215+02 "R"			33.0			Funct.	212					212	56	56			
215+32 "R"			30.0			Funct.	105					105	30	30			
215+42 "R"			30.5			Funct.	34					34	10	10			
215+51 "R"			32.0			Funct.	31					31	9	9			
218+46 "R"			32.0			Funct.	1049					1049	295	295			
219+68 "R"			32.5			Funct.	437					437	122	122			
219+78 "R"			28.0			Funct.	34					34	10	10			
220+62 "R"			28.5			Funct.	264					264	84	84			
221+18 "R"			30.0			Funct.	182					182	56	56			
221+93 "R"			35.0			Funct.	271					271	75	75			
222+43 "R"			45.0			Funct.	222					222	50	50			
222+53 "R"			47.0			Funct.	51					51	10	10			
222+92 "R"			47.0			Funct.	204					204	39	39			
223+60 "R"			41.0			Funct.	332					332	68	68			
224+19 "R"			41.0			Funct.	269					269	59	59			
225+70 "R"			37.0			Funct.	654					654	151	151			
229+18 "R"			37.0			Funct.	1431					1431	348	348			
229+50 "R"			34.0			Funct.	126					126	32	32			
229+92 "R"			32.0			Funct.	154					154	42	42			
230+98 "R"			30.0			Funct.	365					365	106	106			
231+11 "R"			32.0			Funct.	45					45	13	13			
232+02 "R"			33.0			Funct.	329					329	91	91		Begin Paving Exception	
236+05 "R"			32.0			Funct.										End Paving Exception	
236+82 "R"			31.0			Funct.	270					270	77	77			
237+07 "R"			31.0			Funct.	86					86	25	25			
238+56 "R"			28.0			Funct.	488					488	149	149			
239+62 "R"			28.5			Funct.	333					333	106	106			
246+48 "R"			28.5			Funct.	2172					2172	686	686			
246+67 "R"			29.0			Funct.	61					61	19	19			
247+32 "R"			28.0			Funct.	206					206	65	65			
248+80 "R"			28.0			Funct.	460					460	148	148			
248+80 "R"			28.0			Funct.										End Line "R"	
56+79 "B"			28.0			Funct.										Begin Line "B"	
61+36 "B"			28.5			Funct.	1434					1434	457	457			
62+19 "B"			29.0			Funct.	265					265	83	83			
62+45 "B"			28.0			Funct.	82					82	26	26			
77+76 "B"			28.0			Funct.	4763					4763	1531	1531			
77+76 "B"			28.0			Funct.										End Line "B"	
169+75 "PR-A"			Var.			Funct.										Begin Line "PR-A" / Station Equation Change	
191+90 "PR-A"			Var.			Funct.	6425		6425	153	6425	6425	2215	2215		Begin Paving Exception	
192+40 "PR-A"			Var.			Funct.										End Paving Exception	
599+39 "PR-A"			Var.			Funct.	104364		104364	2485	104364	104364	40699	40699		END PROJECT - LINE "PR-A"	
600+90 "PR-A"			24.0			Funct.	403					403				End Incidental Construction	
Totals							134444			110789	2638	110789	134444	49437	49437		

\* Widths are approximate and shall be field verified.  
 \*\* Areas are calculated by using station and widths in current row and the row above.

**Quantity Summary**

Mainline		Shoulder		Asphalt for Tack Coat	Comp. Agg. No. 53 2.0" (avg)	Full Depth Reclamation		Milling		Joint Adhesive		Milled HMA Corrugations
QC/QA-HMA	Surface	QC/QA-HMA	Intermed.			FDR	Stabilizing Material	Profile	Asphalt 4.0"	Surface	Intermed.	
165 #/sys	275 #/sys			(ton)	(ton)	(sys)	(tons)	(sys)	(sys)	(lft)	(lft)	(lft)
<b>11059</b>	<b>18431</b>			<b>67.1</b>		<b>110789</b>	<b>2638</b>	<b>110789</b>	<b>134444</b>	<b>49437</b>	<b>49437</b>	

**TEMPORARY EROSION CONTROL TABLE**

STRUCTURE NO.	LOCATION			SILT FENCE	TEMPORARY CHECK DAM	MULCHED SEEDING	PUMP AROUND	REMARKS
	LEFT	MEDIAN	RIGHT					
	LFT	LFT	SYS	FACH				
100	X			129	26	244.44		
			X	77	26	137.67		
101	X			86	26	117.56		
			X	93	26	178.89		
102	X			119	26	225.11	1	
			X	134	26	298.78		
103	X			101	26	140.44		
			X	109	26	167.11		
104	X			79	13	62.11		
105			X	80	13	65.56		
106	X			117	26	203.56		
			X	140	26	267.22		
107	X			135	26	256.56		
			X	98	26	148.67		
108	X			78	26	101.11		
			X	126	26	196.67		
109	X			69	26	70.56	1	
			X	102	26	150.22		
110	X			122	26	183.00	1	
			X	180	26	513.67		
111A	X			109	26	181.11		
			X	138	26	277.89		
111B	X			118	26	205.00		
			X	140	26	269.78		
111C	X			74	13	115.33		
112	X			138	26	255.33		
			X	125	26	226.44		
113	X			137	26	280.56	1	
			X	136	26	270.11		
114 & 115	X			126	26	223.22		
			X	144	26	338.78		
116	X			157	26	300.00		
			X	114	26	194.78		
117	X			90	13	74.22		
118	X			139	26	246.44		
			X	91	26	121.89		
119	X			102	13	149.56		
			X	98	26	151.78		
<b>TOTAL</b>				<b>4350</b>	<b>923</b>	<b>7612</b>	<b>4</b>	

NOTE:  
 Additional quantities included for superelevated section of roadway:  
 792 Tons of Compacted Aggregate No.53  
 300 Tons of HMA Wedge and Level, Type B

6/3/2021 10:59:54 AM Plot: pw:\VSSC-PW\INT.\hwochner.com\Lochner-SC\Documents\Projects\000017217\03\_CADD\01\_Sheets\Civil\Sht Quantities\_nm\_01.dgn

RECOMMENDED FOR APPROVAL <i>ENG SIGNATURES</i> DESIGN ENGINEER DATE: XX/XX/2020	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE: N/A	BRIDGE FILE: N/A
	GENERAL SUMMARY TABLES		DESIGNATION: 1800182	
	DESIGNED: RAR 03/2021	DRAWN: RLK 03/2021	SHEETS: 90 of 124	
CHECKED: AH 03/2021	CHECKED: AH 03/2021	CONTRACT: RS-41443		PROJECT: 1800182



**PAVEMENT MARKINGS SUMMARY TABLE**

Lines & SRPMs												
Start Station	End Station	Edge Line	WB Lane Lines	Centerline	EB Lane Lines	Edge Line	Line, Paint,			Temp. Pavement Markings, 4 in (ft)	SRPMs, Remove (ea)	SRPMs (ea)
							Solid, Yellow, 4 in (ft)	Broken, Yellow, 4 in (ft)	Solid, White, 4 in (ft)			
200+50 "R"	203+18 "R"	Yes		No Passing Both		Yes	536		536	27	7	
203+18 "R"	203+83 "R"											
203+83 "R"	205+33 "R"	Yes		Passing Both		Yes		40	300	15	2	
205+33 "R"	205+75 "R"											
205+75 "R"	214+49 "R"	Yes		Passing Both		Yes		220	1748	87	11	
214+49 "R"	214+93 "R"					Yes			44			
214+93 "R"	218+48 "R"	Yes		Passing Both		Yes	90	710	36	5		
218+48 "R"	219+04 "R"	Yes							56			
219+04 "R"	220+17 "R"	Yes		Passing Both		Yes	30	226	11	2		
220+17 "R"	220+66 "R"					Yes			49			
220+66 "R"	220+70 "R"											
220+70 "R"	221+16 "R"	Yes							46			
221+16 "R"	221+93 "R"	Yes		Passing Both		Yes	20	154	8	1		
221+93 "R"	222+55 "R"	Yes		Passing Both	RT Turn	Yes	20	186	68	3		
222+55 "R"	222+97 "R"			Passing Both	RT Turn	Yes	20	84	46	3		
222+97 "R"	223+45 "R"	Yes	RT Turn	Passing Both	RT Turn	Yes	20	192	101	5		
223+45 "R"	223+78 "R"	Yes	RT Turn						66	33	1	
223+78 "R"	223+97 "R"	Yes							19			
223+97 "R"	226+63 "R"	Yes		Passing Both	RT Turn	Yes	70	798	293	11		
226+63 "R"	226+99 "R"	Yes		Passing Both			10	36	4	1		
226+99 "R"	227+59 "R"	Yes		Passing Both	RT Turn	Yes	20	180	66	3		
227+59 "R"	228+12 "R"			Passing Both	RT Turn	Yes	20	106	58	3		
228+12 "R"	228+61 "R"	Yes		Passing Both	RT Turn	Yes	20	147	54	3		
228+61 "R"	229+20 "R"	Yes		Passing Both			20	59	6	1		
229+20 "R"	230+19 "R"	Yes		Passing Both		Yes	30	198	10	2		
230+19 "R"	230+77 "R"	Yes							58			
230+77 "R"	232+02 "R"	Yes		Passing Both		Yes	40	250	13	2		
232+02 "R"	236+55 "R"	Yes		Passing WB		Yes	453	120	906	45	12	
236+55 "R"	237+10 "R"	Yes		No Passing Both		Yes	110		110	6	2	
237+10 "R"	237+50 "R"					Yes			40			
237+50 "R"	238+86 "R"	Yes		No Passing Both		Yes	272		272	14	4	
238+86 "R"	239+41 "R"			No Passing Both		Yes	110		55	6	2	
239+41 "R"	248+80 "R"	Yes		No Passing Both		Yes	1878		1878	94	24	
248+80 "R"												
56+79 "B"	64+09 "B"	Yes		No Passing Both		Yes	1460		1460	73	19	
64+09 "B"	64+54 "B"	Yes							45			
64+54 "B"	64+54 "B"			No Passing Both			44					
64+54 "B"	65+03 "B"	Yes							49			
65+03 "B"	69+47 "B"	Yes		No Passing Both		Yes	888		888	44	12	
69+47 "B"	77+76 "B"	Yes		Passing WB		Yes	829	210	1658	83	21	
77+76 "B"												
169+75 "PR-A"	169+92 "PR-A"	Yes		Passing WB		Yes	17	10	34	2	1	
169+92 "PR-A"	170+40 "PR-A"	Yes		Passing WB			48	20	48	5	2	
170+40 "PR-A"	171+04 "PR-A"	Yes		Passing WB		Yes	64	20	128	6	2	
171+04 "PR-A"	173+08 "PR-A"	Yes		Passing Both		Yes	60	408	20	3		
173+08 "PR-A"	181+51 "PR-A"	Yes		Passing WB		Yes	843	220	1686	84	22	
181+51 "PR-A"	182+20 "PR-A"	Yes							69			
182+20 "PR-A"	187+84 "PR-A"	Yes		No Passing Both		Yes	1128		1128	56	15	
187+84 "PR-A"	188+39 "PR-A"	Yes							55			
188+39 "PR-A"	194+44 "PR-A"	Yes		Passing Both		Yes		160	1210	61	8	
194+44 "PR-A"	203+99 "PR-A"	Yes		Passing EB		Yes	955	240	1910	96	24	
203+99 "PR-A"	214+98 "PR-A"	Yes		Passing Both		Yes		280	2198	110	14	
214+98 "PR-A"	215+58 "PR-A"											
215+58 "PR-A"	268+02 "PR-A"	Yes		Passing Both		Yes		1320	10488	524	66	
268+02 "PR-A"	268+55 "PR-A"											
268+55 "PR-A"	298+42 "PR-A"	Yes		Passing Both		Yes		750	5974	299	38	
298+42 "PR-A"	307+12 "PR-A"	Yes		Passing WB		Yes	870	220	1740	87	22	
307+12 "PR-A"	319+93 "PR-A"	Yes		No Passing Both		Yes	2562		2562	128	33	
319+93 "PR-A"	320+70 "PR-A"											
320+70 "PR-A"	327+13 "PR-A"	Yes		Passing EB		Yes	643	170	1286	64	17	

**PAVEMENT MARKINGS SUMMARY TABLE**

Lines & SRPMs												
Start Station	End Station	Edge Line	WB Lane Lines	Centerline	EB Lane Lines	Edge Line	Line, Paint,			Temp. Pavement Markings, 4 in (ft)	SRPMs, Remove (ea)	SRPMs (ea)
							Solid, Yellow, 4 in (ft)	Broken, Yellow, 4 in (ft)	Solid, White, 4 in (ft)			
327+13 "PR-A"	334+06 "PR-A"	Yes		Passing Both		Yes						
334+06 "PR-A"	344+42 "PR-A"	Yes		Passing WB		Yes	1036	260	2072	104	26	
344+42 "PR-A"	346+73 "PR-A"	Yes		No Passing Both		Yes	462		462	23	6	
346+73 "PR-A"	347+94 "PR-A"											
347+94 "PR-A"	359+21 "PR-A"	Yes		Passing EB		Yes	1127	290	2254	113	29	
359+21 "PR-A"	374+33 "PR-A"	Yes		Passing Both		Yes		380	3024	151	19	
374+33 "PR-A"	374+97 "PR-A"	Yes							64			
374+97 "PR-A"	401+17 "PR-A"	Yes		Passing Both		Yes		660	5240	262	33	
401+17 "PR-A"	401+82 "PR-A"	Yes		Passing Both		Yes		20	65	7	1	
401+82 "PR-A"	436+40 "PR-A"	Yes		Passing Both		Yes		870	6916	346	44	
436+40 "PR-A"	445+83 "PR-A"	Yes		Passing WB		Yes	943	240	1886	94	24	
445+83 "PR-A"	452+38 "PR-A"	Yes		Passing EB		Yes	655	170	1310	66	17	
452+38 "PR-A"	481+13 "PR-A"	Yes		Passing Both		Yes		720	5750	288	36	
481+13 "PR-A"	482+24 "PR-A"	Yes							111			
482+24 "PR-A"	494+49 "PR-A"	Yes		Passing Both		Yes		310	2450	123	16	
494+49 "PR-A"	495+35 "PR-A"	Yes							86			
495+35 "PR-A"	513+59 "PR-A"	Yes		Passing Both		Yes		460	3648	182	23	
513+59 "PR-A"	521+16 "PR-A"	Yes		Passing WB		Yes	757	190	1514	76	19	
521+16 "PR-A"	521+93 "PR-A"											
521+93 "PR-A"	539+65 "PR-A"	Yes		No Passing Both		Yes	3544		3544	177	45	
539+65 "PR-A"	547+56 "PR-A"	Yes		Passing EB		Yes	791	200	1582	79	20	
547+56 "PR-A"	548+09 "PR-A"	Yes		Passing Both		Yes		20	106	5	1	
548+09 "PR-A"	548+64 "PR-A"											
548+64 "PR-A"	574+79 "PR-A"	Yes		Passing Both		Yes		660	5230	262	33	
574+79 "PR-A"	575+38 "PR-A"											
575+38 "PR-A"	594+44 "PR-A"	Yes		Passing Both		Yes		480	3812	191	24	
594+44 "PR-A"	600+90 "PR-A"	Yes		Passing WB		Yes	646	170	1292	65	17	
600+90 "PR-A"												
<b>Totals</b>							<b>23671</b>	<b>10770</b>	<b>98337</b>	<b>5522</b>	<b>871</b>	

NOTES: - All stationing is approximate and shall be verified.  
 - All lane lines have been accounted for in temporary pavement markings quantity.  
 - SRPMs = Snowplowable Raised Pavement Markers  
 - The Contractor shall follow requirements of the "Documentation, Removal, and Reinstallation of Existing Pavement Markings and Traffic Signal Loops" special provision.

**PAVEMENT MARKINGS SUMMARY TABLE**

Transverse Markings & Pavement Message Markings										
Start Station	End Station	Transverse Marking, Thermoplastic,					PMM, Thermoplastic,			Remarks
		Stop Line, White, 24 in (ft)	Crosswalk Line, White, 6 in (ft)	Solid, Cross-hatch Line, Yellow, 12 in (ft)	Solid, Cross-hatch Line, Yellow, 24 in (ft)	Solid, Cross-hatch Line, White, 12 in (ft)	Lane Indication Arrow (ea)	Word (ONLY) (ea)	Word (RXR) (ea)	
203+18 "R"	203+24 "R"		86							
203+33 "R"	203+50 "R"	17								
203+52 "R"	203+69 "R"	17								
205+41 "R"	205+53 "R"	12								
205+55 "R"	205+69 "R"	14								
214+52 "R"	214+71 "R"	19								
218+76 "R"	218+91 "R"	15								
220+35 "R"	220+49 "R"	14								
220+98 "R"	221+08 "R"	10								
227+72 "R"	227+91 "R"	19								
230+44 "R"	230+62 "R"	18								
64+54 "B"	64+70 "B"	16								
<b>Totals</b>		<b>171</b>	<b>86</b>							

Notes: - All stationing is approximate and shall be verified.  
 - PMM = Pavement Message Marking  
 - The Contractor shall follow requirements of the "Documentation, Removal, and Reinstallation of Existing Pavement Markings and Traffic Signal Loops" special provision.

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RECOMMENDED FOR APPROVAL <i>ENG SIGNATURES</i> DESIGN ENGINEER DATE XX/XX/2020	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE N/A	BRIDGE FILE N/A
			DESIGNATION 1800182	
DESIGNED: RAR 03/2021	DRAWN: RLK 03/2021	GENERAL SUMMARY TABLES		SHEETS 91 of 124
CHECKED: AH 03/2021	CHECKED: AH 03/2021			CONTRACT RS-41443



Plot: pwt:\VSSC-PWINT.hwochmer.com\Projects\00001721703\_CADD\01\_Sheets\Civil\Sht Quantities\_nn\_01.dgn  
 6/3/2021 11:00:21 AM

### SHEET SIGN & POST SUMMARY

SHEET SIGN & POST SUMMARY											
SIGN							REMOVE & REPLACE	POST		REMARKS	
LINE	SIGN LOCATION (STA.)	OFFSET (FT)	SIDE	SIGN CODE	SIGN SIZE (IN. x IN.)	SIGN AREA (ft²)		SQUARE			
								REINFORCED ANCHOR			
								POST LENGTH (FT.)			
								1	TOTAL		
Line "R"	200+45	24	Lt	R1-1	30 x 30	6.25	1	13.0	13.0		
Line "R"	201+55	22	Rt	R2-1 (35 mph)	24 x 30	5.00	1	13.0	13.0		
				R8-3A	24 x 30	5.00	1	13.0	13.0		
Line "R"	201+70	27	Lt	D1-2	Varies x 30	20.00	1	13.0	13.0		
Line "R"	202+80	21	Rt	M3-2	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
Line "R"	203+95	23	Lt	M2-1	21 x 15	2.19	1	13.8	13.8		
				M1-4 (US 35)	30 x 24	5.00	1		0.0		
Line "R"	205+25	23	Lt	W3-1	30 x 30	6.25	1	13.0	13.0		
Line "R"	207+16	19	Rt	R2-1 (35 mph)	24 x 30	5.00	1	15.5	15.5		
				R8-3A	24 x 30	5.00	1				
Line "R"	209+85	23	Lt	R7-1	12 x 18	1.50	1	12.0	12.0		
Line "R"	211+39	21	Rt	R2-1 (35 mph)	24 x 30	5.00	1	15.5	15.5		
				R8-3A	24 x 30	5.00	1				
Line "R"	211+87	23	Lt	R2-1 (35 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	213+87	24	Lt	R7-1	12 x 18	1.50	1	12.0	12.0		
Line "R"	217+39	22	Rt	R2-1 (35 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	219+14	22	Rt	D9-2	24 x 24	4.00	1	13.8	13.8		
				M5-1(R)S	21 x 15	2.19	1				
Line "R"	220+24	22	Lt	R2-1 (35 mph)	24 x 30	5.00	1	15.5	15.5		
				R8-3A	24 x 30	5.00	1				
Line "R"	223+24	26	Rt	R2-1 (35 mph)	24 x 30	5.00	1	15.5	15.5		
				R8-3A	24 x 30	5.00	1				
Line "R"	225+33	30	Rt	W8-Y9	36 x 36	9.00	1	13.5	13.5		
Line "R"	226+57	24	Lt	R2-1 (35 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	228+37	31	Rt	W1-4R	36 x 36	9.00	1	13.5	13.5		
Line "R"	230+51	19	Lt	OM3-L	12 x 36	3.00	1	13.5	13.5		
Line "R"	230+74	21	Rt	OM3-R	12 x 36	3.00	1	13.5	13.5		
Line "R"	232+04	20	Lt	OM3-L	12 x 36	3.00	1	13.5	13.5		
Line "R"	232+11	19	Rt	OM3-R	12 x 36	3.00	1	14.5	14.5		
				I-3	Varies x 18	5.25	1				
Line "R"	235+94	20	Rt	OM3-L	12 x 36	3.00	1	13.5	13.5		
Line "R"	235+94	20	Lt	OM3-R	12 x 36	3.00	1		0.0		
				I-3	Varies x 18	5.25	1				
Line "R"	236+55	21	Lt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "R"	237+03	23	Lt	R2-1 (35 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	237+16	20	Rt	R2-1 (45 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	237+26	19	Rt	OM3-L	12 x 36	3.00	1	13.5	13.5		
Line "R"	238+15	20	Lt	D9-2	24 x 24	4.00	1	13.8	13.8		
				M5-1(L)S	21 x 15	2.19	1				
Line "R"	240+33	23	Lt	W1-6R	48 x 24	8.00	1	12.5	12.5		
Line "R"	241+12	23	Rt	SR5-Y1	24 x 24	4.00	1	15.0	15.0		
				D1-2a	Varies x 30		1		0.0		
Line "R"	241+35	20	Lt	W8-Y9	36 x 36	9.00	1	13.5	13.5		
Line "R"	241+82	23	Lt	S3-1	36 x 36	9.00	1	13.5	13.5		
Line "R"	243+20	23	Lt	R2-1 (45 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	243+20	22	Rt	R2-1 (45 mph)	24 x 30	5.00	1	13.0	13.0		
Line "R"	246+00	23	Lt	W1-6L	48 x 24	8.00	1	12.5	12.5		
Line "B"	56+95	25	Lt	R2-1 (45 mph)	24 x 30	5.00	1	13.0	13.0		
Line "B"	56+95	23	Rt	R2-1 (55 mph)	24 x 30	5.00	1	13.0	13.0		
Line "B"	57+78	22	Rt	Local Sign (City Park)						Remain in place	
Line "B"	63+11	20	Rt	W1-6L	48 x 24	8.00	1	12.5	12.5		
Line "B"	68+82	21	Lt	Local Sign (City Park)						Remain in place	
Line "B"	69+05	24	Rt	Local Sign (Adopt A Highway)						Remain in place	
Line "B"	69+08	21	Rt	W1-6R	48 x 24	8.00	1	12.5	12.5		
Line "B"	77+04	19	Lt	W1-4R	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	171+04	18	Rt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	172+08	22	Lt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	182+86	19	Rt	W2-Y7	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	190+90	25	Rt	W11-3	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	196+86	86	Lt	S3-Y2	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	203+99	24	Rt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	294+62	22	Rt	S3-1	36 x 36	9.00	1	13.5	13.5		
Line "PR-A"	298+42	28	Lt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	317+32	22	Rt	D1-1	Varies x 18	9.00	1	12.0	12.0		
<b>SUB-TOTAL</b>							<b>322.41</b>	<b>62.00</b>	<b>668.80</b>		

### SHEET SIGN & POST SUMMARY

SHEET SIGN & POST SUMMARY											
SIGN							REMOVE & REPLACE	POST		REMARKS	
LINE	SIGN LOCATION (STA.)	OFFSET (FT)	SIDE	SIGN CODE	SIGN SIZE (IN. x IN.)	SIGN AREA (ft²)		SQUARE			
								REINFORCED ANCHOR			
								POST LENGTH (FT.)			
								1	TOTAL		
Line "PR-A"	318+24	22	Lt	M3-4	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
Line "PR-A"	319+34	22	Lt	S3-1	36 x 36	9.00	1	13.5	13.5		
Line "PR-A"	324+53	19	Rt	M3-2	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
Line "PR-A"	325+12	25	Lt	D1-1	Varies x 18	9.00	1	12.0	12.0		
Line "PR-A"	327+13	24	Rt	R2-1 (55 mph)	24 x 30	5.00	1	13.0	13.0		
Line "PR-A"	327+13	24	Rt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	334+06	25	Lt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	354+21	22	Rt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	357+10	23	Lt	W11-3	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	436+40	26	Lt	W14-3	48 x 48 x 36	3.97	1	16.0	16.0		
				R2-1 (55 mph)	24 x 30	5.00	1				
Line "PR-A"	452+38	25	Rt	W14-3	48 x 48 x 36	3.97	1	16.0	16.0		
				R2-1 (55 mph)	24 x 30	5.00	1		0.0		
Line "PR-A"	476+81	23	Rt	D1-1	Varies x 18	9.75	1	12.0	12.0		
Line "PR-A"	479+75	22	Lt	M3-4	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
Line "PR-A"	481+47	22	Rt	I-Y12	48 x 24	8.00	1	16.0	16.0		
				RG-1	24 x 24	4.00	1				
				RG-2L	24 x 18	3.00	1				
				I-Y12	48 x 24	8.00	1				
				RG-1	24 x 24	4.00	1				
				RG-2R	24 x 18	3.00	1				
Line "PR-A"	483+90	29	Rt	M3-2	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
Line "PR-A"	485+93	23	Lt	D1-1	Varies x 18	9.75	1	12.0	12.0		
Line "PR-A"	513+59	22	Lt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	547+56	25	Rt	W14-3	48 x 48 x 36	3.97	1	13.5	13.5		
Line "PR-A"	591+67	23	Lt	R2-1 (55 mph)	24 x 30	5.00	1	15.5	15.5		
				W3-1	30 x 30	6.25	1				
Line "PR-A"	591+67	19	Rt	W3-1	30 x 30	6.25	1	13.0	13.0		
Line "PR-A"	594+38	19	Rt	M2-1	21 x 15	2.19	1	13.8	13.8		
				M1-5 (INDIANA 17)	24 x 24	4.00	1				
Line "PR-A"	594+41	23	Lt	D2-1	Varies x 18	7.50	1	12.0	12.0		
Line "PR-A"	596+80	20	Rt	D1-1	Varies x 18	9.75	1	15.0	15.0		
				D1-1	Varies x 18	9.00	1				
				D1-1	Varies x 18	8.25	1				
Line "PR-A"	599+45	23	Lt	M3-4	24 x 12	2.00	1	13.5	13.5		
				M1-5 (INDIANA 14)	24 x 24	4.00	1				
<b>SUB-TOTAL</b>							<b>204.72</b>	<b>40.00</b>	<b>327.80</b>		
<b>TOTAL</b>							<b>528.00</b>	<b>102.00</b>	<b>997.00</b>		

### GUARDRAIL SUMMARY TABLE

Begin Station	End Station	Side	Guardrail, Remove (ft)	Guardrail MGS Height Transition (ea)	Guardrail MGS Transition, Without Curb (ea)	Guardrail End Treatment, OS (ea)	Guardrail, Connector System, W-Beam Curved, 2 (ea)	Guardrail, Terminal System, W-Beam Curved, 2 (ea)	Guardrail, W-Beam, Double Faced, 6 Ft 3 In Spacing (ft)	Remarks
230+59 "A"	232+06 "A"	LT	141	1	1	1	1		56.25	
231+04 "A"	232+13 "A"	RT	127	1	1	1	1		37.5	
235+91 "A"	237+15 "A"	LT	108	1	1			1	31.25	
235+98 "A"	237+42 "A"	RT	127	1	1			1	50	
<b>Totals</b>			<b>503</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>175</b>	

RECOMMENDED FOR APPROVAL  DESIGN ENGINEER DESIGNED: RAR 03/2021 DRAWN: RLK 03/2021 CHECKED: AH 03/2021 CHECKED: AH 03/2021	INDIANA DEPARTMENT OF TRANSPORTATION  <b>GENERAL SUMMARY TABLES</b>	SCALE N/A  BRIDGE FILE N/A DESIGNATION 1800182  SHEETS 92 of 124 CONTRACT RS-41443 PROJECT 1800182
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**MILLED HMA CORRUGATIONS FOR CLRS  
SUMMARY TABLE**

Start Station	End Station	Liquid Asphalt Sealant * (ft)	Milled HMA Corrugations (ft)
56+95 "B"	64+09 "B"		714
64+09 "B"	65+03 "B"		
65+03 "B"	77+76 "B"		1273
77+76 "B"			
169+75 "PR-A"	169+92 "PR-A"		17
169+92 "PR-A"	170+40 "PR-A"		
170+40 "PR-A"	181+51 "PR-A"		1111
181+51 "PR-A"	182+20 "PR-A"		
182+20 "PR-A"	187+84 "PR-A"		564
187+84 "PR-A"	188+39 "PR-A"		
188+39 "PR-A"	214+98 "PR-A"		2659
214+98 "PR-A"	215+58 "PR-A"		
215+58 "PR-A"	268+02 "PR-A"		5244
268+02 "PR-A"	268+55 "PR-A"		
268+55 "PR-A"	319+93 "PR-A"		5138
319+93 "PR-A"	320+70 "PR-A"		
320+70 "PR-A"	345+73 "PR-A"		2503
345+73 "PR-A"	346+94 "PR-A"		
346+94 "PR-A"	481+13 "PR-A"		13419
481+13 "PR-A"	482+24 "PR-A"		
482+24 "PR-A"	494+49 "PR-A"		1225
494+49 "PR-A"	495+35 "PR-A"		
495+35 "PR-A"	521+16 "PR-A"		2581
521+16 "PR-A"	521+93 "PR-A"		
521+93 "PR-A"	548+09 "PR-A"		2616
548+09 "PR-A"	548+64 "PR-A"		
548+64 "PR-A"	574+79 "PR-A"		2615
574+79 "PR-A"	575+38 "PR-A"		
575+38 "PR-A"	600+90 "PR-A"		2552
600+90 "PR-A"			
<b>Totals</b>			<b>44,231</b>

NOTES:  
CLRS = Centerline Longitudinal Rumble Stripe  
All stationing is approx. and shall be verified.  
\* This is only for where there is not a joint near the corrugations.

**MONUMENT TREATMENT SUMMARY TABLE**

Approx. Station	Location	Monument Type	Condition	Description of Work
209+35 "R"	Centerline	B	Good	Monument, B
211+97 "R"	Centerline	B	Good	Monument, B
214+60 "R"	Centerline	B	Good	Monument, B
218+92 "R"	Centerline	B	Good	Monument, B
236+91 "R"	Centerline	B	Good	Monument, B
243+03 "R"	Left	C	Good	Monument, C
248+80 "R"	Centerline	B	Good	Monument, B
60+24 "B"	Centerline	B	Good	Monument, B
66+48 "B"	Right	C	Good	Monument, C
72+42 "B"	Centerline	B	Good	Monument, B
75+46 "B"	Centerline	B	Good	Monument, B
176+05 "A"	Centerline	B	Good	Monument, B
181+88 "A"	Centerline	B	Good	Monument, B
188+16 "A"	Centerline	B	Good	Monument, B
192+12 "A"	Centerline	B	Good	Monument, B
202+84 "A"	Centerline	B	Good	Monument, B
215+29 "A"	Centerline	B	Good	Monument, B
228+59 "A"	Centerline	B	Good	Monument, B
236+17 "A"	Centerline	B	Good	Monument, B
241+83 "A"	Centerline	B	Good	Monument, B
247+23 "A"	Centerline	B	Good	Monument, B
252+78 "A"	Centerline	B	Good	Monument, B
268+27 "A"	Centerline	B	Good	Monument, B
294+99 "A"	Centerline	B	Good	Monument, B
303+66 "A"	Centerline	B	Good	Monument, B
312+74 "A"	Centerline	B	Good	Monument, B
320+31 "A"	Centerline	B	Good	Monument, B
333+92 "A"	Centerline	B	Good	Monument, B
336+59 "A"	Centerline	B	Good	Monument, B
340+07 "A"	Centerline	B	Good	Monument, B
347+40 "A"	Centerline	B	Good	Monument, B
3610+87 "A"	Centerline	B	Good	Monument, B
368+69 "A"	Centerline	B	Good	Monument, B
374+70 "A"	Centerline	B	Good	Monument, B
387+50 "A"	Centerline	B	Good	Monument, B
397+53 "A"	Centerline	B	Good	Monument, B
401+49 "A"	Centerline	B	Good	Monument, B
404+22 "A"	Centerline	B	Good	Monument, B
414+63 "A"	Centerline	B	Good	Monument, B
424+42 "A"	Centerline	B	Good	Monument, B
428+50 "A"	Centerline	B	Good	Monument, B
437+14 "A"	Centerline	B	Good	Monument, B
446+64 "A"	Centerline	B	Good	Monument, B
450+75 "A"	Centerline	B	Good	Monument, B
464+05 "A"	Centerline	B	Good	Monument, B
481+54 "A"	Centerline	B	Good	Monument, B
485+93 "A"	Centerline	B	Good	Monument, B
494+95 "A"	Centerline	B	Good	Monument, B
499+76 "A"	Centerline	B	Good	Monument, B
502+88 "A"	Centerline	B	Good	Monument, B
511+44 "A"	Centerline	B	Good	Monument, B
521+52 "A"	Centerline	B	Good	Monument, B
548+40 "A"	Centerline	B	Good	Monument, B
552+31 "A"	Centerline	B	Good	Monument, B
555+03 "A"	Centerline	B	Good	Monument, B
562+05 "A"	Centerline	B	Good	Monument, B
575+09 "A"	Centerline	B	Good	Monument, B

**Quantity Summary**  
Casting Adjusted to Grade, Monument  
Casting, Furnish and Adjust to Grade  
Monument, Re-establish  
**55 ea** Monument, B  
Monument, Section Corner  
**2 ea** Monument, C

**CASTING TREATMENT SUMMARY TABLE**

Structure No.	Approx. Station	L	R	CROSS	Offset (ft)	Shape	Length (in)	Width (in)	Diameter (in)	Description of Work
98	203+28 "A"		X		21					Manhole Type A2
99	203+26 "A"		X		25					Inlet Type A8
497	203+27 "A"	X			20					Casting, Adjust to Grade, Inlet
498	203+72 "A"		X		15					Casting, Adjust to Grade, Manhole
499	205+15 "A"		X		16					Casting, Adjust to Grade, Manhole
500	205+20 "A"	X			19	Rectangular	22	16		Casting, Furnish and Adjust to Grade
501	205+32 "A"		X		22	Rectangular	22	16		Casting, Furnish and Adjust to Grade
502	205+84 "A"	X			19	Rectangular	22	16		Casting, Furnish and Adjust to Grade
503	207+32 "A"	X			20	Rectangular	22	16		Casting, Furnish and Adjust to Grade
504	209+65 "A"		X		18	Rectangular	36	16		Casting, Furnish and Adjust to Grade
505	210+84 "A"		X		17	Circular			24	Casting, Adjust to Grade, Manhole
506	211+06 "A"				18	Rectangular	36	16		Casting, Furnish and Adjust to Grade
507	211+80 "A"	X			19	Rectangular	22	16		Casting, Furnish and Adjust to Grade
508	212+47 "A"		X		18	Rectangular	36	16		Casting, Furnish and Adjust to Grade

**Quantity Summary**  
**8 ea** Casting, Furnish and Adjust to Grade  
**1 ea** Casting, Adjust to Grade, Inlet  
**3 ea** Casting, Adjust to Grade, Manhole  
Casting, Water Valve, Adjust to Grade  
Structure, Manhole, Reconstructed  
Structure, Inlet, Reconstructed  
**1 ea** Manhole Type A2  
**1 ea** Inlet Type A8

NOTE: \* Some of this quantity is undistributed.

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Model:RD\_Monuments Casting Tables

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	XX/XX/2020	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE N/A	BRIDGE FILE N/A
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021		GENERAL SUMMARY TABLES	DESIGNATION 1800182	
CHECKED: AH	03/2021	CHECKED: AH	03/2021			SHEETS 93 of 124	
						CONTRACT RS-41443	PROJECT 1800182

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6/3/2021

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ROW MARKERS				
Location	Left	Right	Offset (ft)	ROW Marker Along R/W
224+35 "PR-A"	X		35	X
224+35 "PR-A"		X	35	X
225+00 "PR-A"	X		35	X
225+40 "PR-A"	X		45	X
225+60 "PR-A"	X		45	X
226+00 "PR-A"	X		35	X
226+65 "PR-A"	X		35	X
226+65 "PR-A"		X	35	X
231+65 "PR-A"	X		35	X
231+65 "PR-A"		X	30	X
232+50 "PR-A"	X		35	X
232+50 "PR-A"		X	30	X
232+70 "PR-A"	X		45	X
232+70 "PR-A"		X	40	X
232+90 "PR-A"	X		45	X
232+90 "PR-A"		X	40	X
233+10 "PR-A"	X		35	X
233+10 "PR-A"		X	30	X
233+77 "PR-A"	X		35	X
233+95 "PR-A"		X	35	X
251+20 "PR-A"		X	30	X
251+35 "PR-A"	X		30	X
252+20 "PR-A"		X	65	X
252+30 "PR-A"	X		30	X
252+30 "PR-A"		X	35	X
252+50 "PR-A"	X		50	X
252+90 "PR-A"		X	65	X
253+20 "PR-A"	X		50	X
253+50 "PR-A"	X		30	X
253+50 "PR-A"		X	30	X
254+20 "PR-A"	X		30	X
254+20 "PR-A"		X	35	X
257+25 "PR-A"	X		35	X
257+25 "PR-A"		X	35	X
259+55 "PR-A"	X		35	X
259+55 "PR-A"		X	35	X
267+75 "PR-A"	X		35	X
267+75 "PR-A"		X	30	X
269+60 "PR-A"		X	30	X
269+80 "PR-A"	X		35	X
270+00 "PR-A"	X		45	X
270+00 "PR-A"		X	45	X
270+30 "PR-A"	X		45	X
270+30 "PR-A"		X	45	X
270+60 "PR-A"	X		35	X
270+70 "PR-A"		X	30	X
280+30 "PR-A"	X		35	X
280+30 "PR-A"		X	30	X
281+10 "PR-A"		X	30	X
281+24 "PR-A"	X		35	X
281+80 "PR-A"	X		35	X
281+90 "PR-A"		X	30	X
282+10 "PR-A"	X		45	X
282+10 "PR-A"		X	40	X
282+40 "PR-A"	X		45	X
282+40 "PR-A"		X	40	X
282+60 "PR-A"		X	30	X
282+80 "PR-A"	X		35	X
283+40 "PR-A"	X		35	X
283+40 "PR-A"		X	30	X

ROW MARKERS				
Location	Left	Right	Offset (ft)	ROW Marker Along R/W
301+50 "PR-A"	X		35	X
301+50 "PR-A"		X	35	X
302+40 "PR-A"	X		35	X
302+50 "PR-A"	X		45	X
302+80 "PR-A"	X		45	X
303+10 "PR-A"	X		35	X
303+80 "PR-A"		X	35	X
304+00 "PR-A"	X		35	X
309+10 "PR-A"	X		35	X
309+10 "PR-A"		X	35	X
311+35 "PR-A"	X		35	X
311+35 "PR-A"		X	35	X
320+80 "PR-A"	X		40	X
320+80 "PR-A"		X	50	X
388+50 "PR-A"	X		35	X
388+50 "PR-A"		X	35	X
389+20 "PR-A"		X	35	X
389+30 "PR-A"	X		35	X
389+50 "PR-A"	X		45	X
389+50 "PR-A"		X	45	X
389+80 "PR-A"	X		45	X
389+80 "PR-A"		X	45	X
390+00 "PR-A"	X		35	X
390+20 "PR-A"		X	35	X
390+80 "PR-A"	X		35	X
390+80 "PR-A"		X	35	X
399+45 "PR-A"	X		35	X
399+45 "PR-A"		X	30	X
400+00 "PR-A"		X	30	X
400+20 "PR-A"	X		35	X
400+50 "PR-A"	X		45	X
400+50 "PR-A"		X	45	X
400+80 "PR-A"	X		45	X
400+80 "PR-A"		X	45	X
401+00 "PR-A"	X		35	X
401+20 "PR-A"		X	30	X
401+75 "PR-A"		X	30	X
402+00 "PR-A"	X		35	X
437+15 "PR-A"	X		30	X
437+15 "PR-A"		X	30	X
437+80 "PR-A"	X		30	X
437+80 "PR-A"		X	30	X
438+20 "PR-A"	X		40	X
438+20 "PR-A"		X	45	X
438+50 "PR-A"	X		40	X
438+50 "PR-A"		X	45	X
438+90 "PR-A"	X		30	X
438+90 "PR-A"		X	30	X
439+45 "PR-A"	X		30	X
439+53 "PR-A"		X	30	X
512+75 "PR-A"	X		35	X
512+75 "PR-A"		X	35	X
513+40 "PR-A"	X		35	X
513+40 "PR-A"		X	35	X
513+80 "PR-A"	X		45	X
513+80 "PR-A"		X	45	X
514+00 "PR-A"	X		45	X
514+00 "PR-A"		X	45	X
514+50 "PR-A"	X		35	X
514+50 "PR-A"		X	35	X

ROW MARKERS				
Location	Left	Right	Offset (ft)	ROW Marker Along R/W
515+05 "PR-A"	X		35	X
515+05 "PR-A"		X	35	X
537+45 "PR-A"	X		35	X
537+80 "PR-A"		X	35	X
537+95 "PR-A"	X		35	X
538+30 "PR-A"		X	35	X
538+35 "PR-A"	X		60	X
538+80 "PR-A"		X	60	X
539+05 "PR-A"	X		60	X
539+50 "PR-A"		X	60	X
539+55 "PR-A"	X		35	X
540+00 "PR-A"		X	35	X
542+35 "PR-A"	X		35	X
542+35 "PR-A"		X	35	X
542+90 "PR-A"	X		40	X
542+90 "PR-A"		X	40	X
543+10 "PR-A"	X		40	X
543+10 "PR-A"		X	40	X
543+40 "PR-A"		X	35	X
543+60 "PR-A"	X		35	X
544+15 "PR-A"	X		35	X
544+15 "PR-A"		X	35	X
547+90 "PR-A"	X		35	X
548+90 "PR-A"		X	35	X
555+26 "PR-A"	X		35	X
555+35 "PR-A"		X	35	X
555+85 "PR-A"	X		35	X
556+40 "PR-A"	X		40	X
556+60 "PR-A"	X		40	X
557+15 "PR-A"	X		35	X
557+65 "PR-A"	X		35	X
557+65 "PR-A"		X	35	X
584+05 "PR-A"	X		30	X
584+45 "PR-A"		X	35	X
584+80 "PR-A"	X		30	X
585+00 "PR-A"		X	35	X
585+10 "PR-A"	X		40	X
585+30 "PR-A"		X	40	X
585+50 "PR-A"		X	40	X
585+60 "PR-A"	X		30	X
585+70 "PR-A"		X	40	X
585+80 "PR-A"		X	35	X
581+35 "PR-A"	X		30	X
581+75 "PR-A"		X	35	X
			<b>TOTAL</b>	<b>164</b>

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Model:RD\_ROW Tables

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		INDIANA DEPARTMENT OF TRANSPORTATION	SCALE	BRIDGE FILE
	DESIGNED: RAR	03/2021		N/A	N/A
CHECKED: AH	03/2021	CHECKED: AH	03/2021	DESIGNATION	1800182
GENERAL SUMMARY TABLES				SHEETS	
				94	of 124
CONTRACT				PROJECT	
RS-41443				1800182	



**STRUCTURE DATA SUMMARY TABLE**

Structure Number	Location				Size		Description	Length ft	Flowline			Service Life yrs	Site Designation	pH	Backfill Method	Structure Backfill		Flowable Backfill HMA for Structure Installation, Type B*	Geotextiles	Revetment Riprap	Class 1 Riprap	Concrete, Class A for Str.	Video Inspection	Pipe End Section, Diameter 15 IN.	Pipe End Section, Diameter 18 IN.	Pipe End Section, Diameter 21 IN.	Pipe End Section, Diameter 24 IN.	Pipe End Section, Diameter 66 IN.	Concrete Anchor, 54 IN.	Pipe End Section, Min. Area 3.3 SFT	Pipe End Section, Min. Area 4.1 SFT	Grated Box End Section		Safety Metal End Section			Connect to Str.	Remarks			
	Station	Left	Right	Cross	Offset	ft			in	Pipe Type	Manhole, Inlet, Catch Basin, or Specialty Structure					Cover	Up Stream															Down Stream	cys	cys	ton	ton			ton	ton	ton
100	225+52	"PR-A"			X	30 x 19	1	Pipe	48	2.1	698.38	698.34	75	NA	8	1	12	7.4	11	8.3																					
101	232+79	"PR-A"			X	21	1	Pipe	44	2.2	699.34	698.77	75	NA	8	1	16	4.8	5.4	4.1																					
102	252+78	"PR-A"			X	66	1	Pipe	66	5.4	694.90	694.70	75	NA	8	1	180	22																							
102A	253+00	"PR-A"			X	26	15	3	Pipe	44	1	700.75	699.19	75	NA	8	2	5	3.4																						
102B	253+10	"PR-A"	X			24	2	Manhole, C4	15	2.8	699.63	699.58	75	NA	8	2	9	1.8																							
103	258+42	"PR-A"			X	15	1	Pipe	48	2.5	700.96	700.70	75	NA	8	1	13	3.7	2.8	2.1																					
104	268+27	"PR-A"	X			25	15	1	Pipe	51	1.9	707.18	707.18	75	NA	8	1	12	4	2.8	2.1																				
105	268+27	"PR-A"	X			23	15	1	Pipe	53	2	707.56	707.50	75	NA	8	1	13	4.1	2.8	2.1																				
106	270+16	"PR-A"			X	18	1	Pipe	47	2.1	706.94	706.82	75	NA	8	1	12	4.3	4	3.2																					
107	282+26	"PR-A"				15	1	Pipe	49	2.1	709.17	708.95	75	NA	8	1	11	3.8	2.8	2.1																					
108	302+65	"PR-A"			X	15	1	Pipe	48	2.2	718.02	717.38	75	NA	8	1	11	3.6	2.8	2.1																					
109	310+25	"PR-A"			X	18	1	Pipe	46	2.8	720.90	720.38	75	NA	8	1	16	4.3	4	3.2																					
110	319+36	"PR-A"			X	54	1	Pipe	124	4.6	712.97	711.29	75	NA	8	1	256	35	36	27																					
110A	319+93	"PR-A"	X			27	15	2	Catch Basin, A2	92	6.4	716.47	713.72	75	NA	8	1	27	7.1																						
110B	320+61	"PR-A"	X			27	15	2	Catch Basin, A2	66	3.3	718.27	716.53	75	NA	8	1	13	5.1																						
110C	320+61	"PR-A"			X	15	1	Pipe	58	2.2	718.40	718.27	75	NA	8	1	11	4.5																							
111A	389+67	"PR-A"			X	18	1	Pipe	52	2.3	720.61	719.43	75	NA	8	1	15	4.8	4	3.2																					
111B	400+59	"PR-A"			X	18	1	Pipe	49	2.2	724.84	724.84	75	NA	8	1	14	4.5	4	3.2																					
111C	401+51	"PR-A"	X			27	18	1	Pipe	49	1.9	725.31	725.09	75	NA	8	1	13	3.4	2.8		2.1																			
112	438+31	"PR-A"			X	18	1	Pipe	47	2.3	726.07	725.79	75	NA	8	1	15	5	4	3.2																					
114	538+75	"PR-A"			X	18	1	Pipe	63	2.6	753.01	751.86	75	NA	8	1	22	5.8	4	3.2																					
115	539+15	"PR-A"			X	18	1	Pipe	65	2.7	753.57	751.80	75	NA	8	1	22	6	4	3.2																					
116	542+98	"PR-A"			X	34 x 22	1	Pipe	43	2.1	748.77	748.59	75	NA	8	1	14	7.4	14		11																				
117	548+41	"PR-A"	X			24	15	1	Pipe	47	2.1	752.73	752.71	75	NA	8	1	13	3.6	2.8	2.1																				
118	556+48	"PR-A"			X	18	1	Pipe	44	2.2	754.50	754.01	75	NA	8	1	13	4	4	3.2																					
119	585+38	"PR-A"			X	18	1	Pipe	54	2.4	762.56	761.99	75	NA	8	1	17	5	4	3.2																					
2	61+00	"A"			X																																				
3	192+12	"PR-A"			X																																				
98	203+27	"R"			X	21	ME	ME	Manhole A2									MEE	MEE																						
99	203+26	"R"			X	25	ME	ME	Inlet A8									MEE	MEE																						
	UNDISTRIBUTED						8	4																																	
							8	4																																	
<b>Totals 1442</b>																																									

MEE = Match Existing Elevation     A = Abrasive     NA = Non-Abrasive     \* Use 0 #/sys

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File: c:\pw\_working\lochner-sl\sherrick\d0130095\Sht Quantities\_nn\_01.dgn  
Model: RD\_Structure Table

RECOMMENDED FOR APPROVAL: ENG SIGNATURES     DATE: XX/XX/2020  
DESIGNED: RAR     03/2021     DRAWN: RLK     03/2021  
CHECKED: AH     03/2021     CHECKED: AH     03/2021

INDIANA DEPARTMENT OF TRANSPORTATION  
  
GENERAL SUMMARY TABLES

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	1800182
SHEETS	
95	of 124
CONTRACT	
PROJECT	
RS-41443	1800182



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Plot: p:\v\SSC-P\W\T\h\lochner.com\Lochner-SC\Documents\Projects\00001721703\_CADD\01\_Sheets\Civil\Sht Quantities\_nn\_01.dgn

		PIPE MATERIAL SUMMARY TABLE																
STRUCTURE NUMBER		100	101	102	102A	102B	103	104	105	106	107	108	109	110	110A	110B	110C	
INT. DES.	PIPE TYPE / SHAPE (CIR or DEF)																	
	SMOOTH PIPE SIZE																	
	CORRUGATED PIPE SIZE																	
	SEMI-SMOOTH PIPE SIZE																	
	RCP/RCHP (S) CLASS	HE-A	II	II		II	II	II	II	II	II	II	II	II				
CONC.	D <sub>0.01</sub> RATING	600	1000	1000		1000	1000	1000	1000	1000	1000	1000	1000	1000				
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		X			X	X	X	X	X	X	X	X					
	CORRUGATED PE PIPE, TYPE 5 (S)*						X								X	X		
	PROFILE WALL (RIBBED) PE PIPE (S)*		X			X							X					
	PROFILE WALL (CLOSED) PE PIPE (S)*																	
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		X / DR=26			X / DR=26	X / DR=26		X / DR=26	X / DR=26	X / DR=26	X / DR=26	X / DR=26	X / DR=26				
	CORRUGATED PP PIPE (S)																	
	PROFILE WALL PVC PIPE (S)		X			X	X		X	X	X	X	X	X				
	SMOOTH WALL PVC PIPE (S)*		X			X	X		X	X	X	X	X	X				
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		X			X	X	X	X	X	X	X	X	X				
	CLAY	FULLY BIT. PAVED & LINED (S)																
		CORR.PROFILE THICKNESS																
		ZINC COATED (C)																
		CORR.PROFILE THICKNESS																
		ZINC COATED W/ BPI (C)																
CORR.PROFILE THICKNESS																		
ALUM. COATED TYPE 2 (C)																		
CORR.PROFILE THICKNESS																		
POLYMER PRECOATED GALVANIZED (C)																		
CORR.PROFILE THICKNESS																		
CORR. ALUM. PIPE / P-ARCH	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																	
	CORR.PROFILE THICKNESS																	
	CORRUGATED ALUM. ALLOY (C)																	
	CORR.PROFILE THICKNESS																	
	CORRUGATED ALUM. ALLOY W/ BPI (C)																	
	CORR.PROFILE THICKNESS																	
	ZINC COATED (SS)																	
	RIB PROFILE THICKNESS																	
	ZINC COATED W/ BPI (SS)																	
	RIB PROFILE THICKNESS																	
SPIRAL RIB STEEL PIPE	ALUM. COATED TYPE 2 (SS)																	
	RIB PROFILE THICKNESS																	
	POLYMER PRECOATED GALVANIZED (SS)																	
	RIB PROFILE THICKNESS																	
	STR. PLATE ALUMINUM ALLOY (C)																	
	CORR.PROFILE THICKNESS																	
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																	
	CORR.PROFILE THICKNESS																	
	STR. PLATE STEEL (C)																	
	CORR.PROFILE THICKNESS **																	
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE STEEL W/ CFP (C)																	
	CORR.PROFILE THICKNESS **																	
	STR. PLATE STEEL W/ CFP (C)																	
	CORR.PROFILE THICKNESS **																	
	STR. PLATE STEEL W/ CFP (C)																	

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Model:RD\_Pipe Material Table

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	XX/XX/2020
	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK 03/2021
CHECKED: AH	03/2021	CHECKED: AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL SUMMARY TABLES	

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	1800182
	SHEETS
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CONTRACT	PROJECT
RS-41443	1800182

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		PIPE MATERIAL SUMMARY TABLE									
STRUCTURE NUMBER		111A	111B	111C	112	114	115	116	117	118	119
INT. DES.	PIPE TYPE / SHAPE (CIR or DEF)										
	SMOOTH PIPE SIZE										
	CORRUGATED PIPE SIZE										
	SEMI-SMOOTH PIPE SIZE										
CONC.	CLASS	II	II	II	II	II	II	HE-A	II	II	II
	D <sub>0.01</sub> RATING	1000	1000	1000	1000	1000	1000	600	1000	1000	1000
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	X	X	X	X	X	X		X	X	X
	CORRUGATED PE PIPE, TYPE S (S)*								X		
	PROFILE WALL (RIBBED) PE PIPE (S)*	X	X		X	X	X			X	X
	PROFILE WALL (CLOSED) PE PIPE (S)*										
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	X / DR=26	X / DR=26		X / DR=26	X / DR=26	X / DR=26		X / DR=26	X / DR=26	X / DR=26
	CORRUGATED PP PIPE (S)										
	PROFILE WALL PVC PIPE (S)	X	X		X	X	X		X	X	X
	SMOOTH WALL PVC PIPE (S)*	X	X		X	X	X		X	X	X
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	X	X	X	X	X	X		X	X	X
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)										
	ZINC COATED (C)										
	ZINC COATED W/ BPI (C)					2-2/3" x 1/2"	2-2/3" x 1/2"		2-2/3" x 1/2"		
	ALUM. COATED TYPE 2 (C)					0.109"	0.109"		0.109"		
	POLYMER PRECOATED GALVANIZED (C)					2-2/3" x 1/2"	2-2/3" x 1/2"		2-2/3" x 1/2"		
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)					0.109"	0.109"		0.109"		
	CORRUGATED ALUM. ALLOY (C)					2-2/3" x 1/2"			2-2/3" x 1/2"		
	CORRUGATED ALUM. ALLOY W/ BPI (C)					0.060"			0.060"		
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)										
	ZINC COATED W/ BPI (SS)										
	ALUM. COATED TYPE 2 (SS)										
	POLYMER PRECOATED GALVANIZED (SS)										
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)										
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)										
	STR. PLATE STEEL (C)										
	STR. PLATE STEEL W/ CFP (C)										

**LEGEND**

- PIPE MATERIAL**
- RCP Reinforced Concrete Pipe
  - RCHEP Reinforced Concrete Horizontal Elliptical Pipe
  - PE Polyethylene
  - DR Dimension Ratio
  - PVC Polyvinyl Chloride
  - PP Polypropylene
  - CORR Corrugation
  - ALUM Aluminum
  - STR Structural
  - (LS) Lock Seam Pipe Required
- PIPE PROTECTION**
- BPI Bituminous Paved Invert
  - CFP Concrete Field Paving
  - BIT Bituminous
- SHAPE**
- CIR Circular Pipe
  - DEF Deformed Pipe
- INTERIOR DESIGNATION**
- (S) Smooth Pipe Material
  - (C) Corrugated Pipe Material
  - (SS) Semi-Smooth Pipe Material
- PIPE SIZE**
- Circular pipe is shown as diameter in inches  
Deformed pipe is shown as area in square feet

\* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

\*\* Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		INDIANA DEPARTMENT OF TRANSPORTATION	SCALE	BRIDGE FILE
	DESIGN ENGINEER			N/A	N/A
	DATE			DESIGNATION	
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	1800182	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	SHEETS	
GENERAL SUMMARY TABLES				97 of 124	
				CONTRACT	PROJECT
				RS-41443	1800182



**CONCRETE CURB RAMP SUMMARY TABLE**

Side Street Station	Side Street Name	Quadrant	Curb Ramp, Concrete	Detectable Warning Surfaces	Sidewalk, Concrete	Curb, Concrete	Sidewalk Concrete, Remove	Curb Concrete, Remove	Remarks
			(sys)	(sys)	(sys)	(ft)	(sys)	(ft)	
203+21 "R"	N Riverside Dr	NW	2.6	0.9	4.4	24.0	7.9	24.0	
203+21 "R"	N Riverside Dr	SW	2.6	0.9	3.9	8.0	7.3	8.0	
<b>Totals</b>			<b>6.0</b>	<b>2.0</b>	<b>9.0</b>	<b>32.0</b>	<b>16.0</b>	<b>32.0</b>	

**MINOR ROAD APPROACH SUMMARY TABLE**

Minor Approach Type	Quantity Improved (ea)	Quantity Unimproved (ea)	Avg. Area Each Appr. (sys)	Total Area Improved (sys)	Total Area Unimproved (sys)
<b>Driveways</b>					
Residential	46		14	644	
Commercial	1		20	20	
Industrial			32		
Field Entrance		6	18		108
<b>Mailbox</b>					
Stand-Alone	1				
Combo (before drive)	1				
Combo (after drive)	4				
<b>Totals</b>			<b>664</b>	<b>108</b>	

**NOTE:**  
Build minor approaches to Standard Drawings E 610-DRIV-21 and E 610-MBAP-01 (W = up to 8 ft), where drainage ditches and right-of-way permit.

All improved minor approaches shall consist of:

165 #/sys HMA Surface, Type B on Milling, Approach

Unimproved minor approaches shall be as follows:

Residential & Mailbox: 165 #/sys HMA Surface, Type B on  
385 #/sys HMA Intermediate, Type B on  
Subgrade Treatment, Type II

Commercial & Industrial: 165 #/sys HMA Surface, Type B on  
275 #/sys HMA Intermediate, Type B on  
880 #/sys HMA Base, Type B on  
Subgrade Treatment, Type II

Field Entrance: 165 #/sys HMA Surface, Type B on  
275 #/sys HMA Intermediate, Type B on  
440 #/sys HMA Base, Type B on  
Subgrade Treatment, Type II

**Quantity Summary**

103 tons HMA for Approaches, Type B  
0.3 tons Asphalt for Tack Coat  
664 sys Milling, Approach  
108 sys Subgrade Treatment, Type II  
1 ea Mailbox Assembly, Single, Reset

**PUBLIC ROAD APPROACH SUMMARY TABLE**

Station	Side	Road Name	Existing Road Condition	Treatment Type	Width at Travel Lane	Width at Radii/Taper	Depth (travel lane to radii/taper)	Width at ROW Line	Depth (travel lane to ROW line)	Area
					(ft)	(ft)	(ft)	(ft)	(ft)	(sys)
203+50 "R"	LT	N. Riverside Dr.	Improved	P.M.	74	34	25			150
203+52 "R"	RT	N. Riverside Dr.	Improved	P.M.	72	36	19			114
205+53 "R"	LT	N. Plymouth Rd.	Improved	P.M.	55	23	16			70
205+55 "R"	RT	N. Plymouth Rd.	Improved	P.M.	53	30	17			79
214+70 "R"	LT	E. Decker Dr.	Improved	P.M.	53	37	10			50
218+75 "R"	RT	Stamper Dr.	Improved	P.M.	56	18	25			103
220+50 "R"	LT	Terrace Dr.	Improved	P.M.	57	24	16	20	24	92
220+97 "R"	RT	Stamper Dr.	Improved	P.M.	56	21	21	20	13	72
223+72 "R"	RT	Hospital Dr.	Improved	P.M.	71	29	22			123
227+84 "R"	LT	Terrace Dr.	Improved	P.M.	53	31	17	39	24	107
230+49 "R"	RT	N. Forest Dr.	Improved	P.M.	80	23	27			155
239+10 "R"	LT	Co. Rd. 75 E.	Improved	P.M.	31	18	10	18	32	72
64+47 "B"	RT	E. Old State Rd.	Improved	P.M.	70	29	37			204
170+21 "PR-A"	RT	Oak Dr.	Improved	P.M.	67	23	22			110
181+88 "PR-A"	RT	Oak Dr.	Improved	P.M.	74	26	22			123
188+17 "PR-A"	LT	Co. Rd. 150 E.	Improved	P.M.	74	23	21			114
215+29 "PR-A"	LT	Co. Rd. 200 E.	Improved	P.M.	88	29	23			150
215+29 "PR-A"	RT	Co. Rd. 200 E.	Improved	P.M.	84	22	23			136
268+27 "PR-A"	LT	Co. Rd. 300 E.	Improved	P.M.	71	25	24			128
268+27 "PR-A"	RT	Co. Rd. 300 E.	Improved	P.M.	61	21	24			110
320+32 "PR-A"	LT	Co. Rd. 400 E.	Improved	P.M.	106	30	24			182
320+36 "PR-A"	RT	Co. Rd. 400 E.	Improved	P.M.	89	34	24			164
347+39 "PR-A"	LT	Co. Rd. 450 E.	Improved	P.M.	155	27	54			546
347+39 "PR-A"	RT	Co. Rd. 450 E.	Improved	P.M.	166	30	45			490
374+70 "PR-A"	RT	Co. Rd. 500 E.	Improved	P.M.	91	24	24			154
401+51 "PR-A"	LT	Co. Rd. 550 E.	Improved	P.M.	68	21	23			114
481+52 "PR-A"	LT	Co. Rd. 700 E./N. 1200 W.	Improved	P.M.	117	95	4			48
495+07 "PR-A"	RT	S. 1175 W.	Improved	P.M.	126	96	6			74
521+51 "PR-A"	LT	N. 1100 W.	Improved	P.M.	114	38	24			203
521+52 "PR-A"	RT	S. 1100 W.	Improved	P.M.	101	35	24			182
548+41 "PR-A"	LT	N. 1050 W.	Improved	P.M.	72	21	24			124
548+41 "PR-A"	RT	S. 1050 W.	Improved	P.M.	98	21	24			159
575+08 "PR-A"	RT	S. 1000 W.	Improved	P.M.	72	24	24			128
575+09 "PR-A"	LT	N. 1000 W.	Improved	P.M.	90	26	24			155

Improved appr. within the P.M. limits shall consist of:

165 #/sys HMA Surface, Type B on Milling, Approach

Unimproved/ Reconstructed approaches shall consist of:

165 #/sys HMA Surface, Type B on  
275 #/sys HMA Intermediate, Type B on  
880 #/sys HMA Base, Type B on  
Subgrade Treatment, Type II

**Quantity Summary**

412 tons HMA for Approaches, Type B  
1.3 tons Asphalt for Tack Coat  
4985 sys Milling, Approach  
Subgrade Treatment, Type II

**NOTE:**

Additional quantities included for superelevated section of roadway:

99 Tons of HMA for Approaches, Type B  
384 Sys of Milling, Approach  
28 Tons of Compacted Aggregate No. 53

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6/3/2021

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File: c:\pw\_working\lochner-slc\jsherrick\d0130095\Sht Quantities\_nm\_02.dgn  
Model:RD\_Detail Sheet

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	XX/XX/2020	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE	BRIDGE FILE
	DESIGN ENGINEER	DATE		N/A	N/A
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021		DESIGNATION
					1800182
CHECKED: AH	03/2021	CHECKED: AH	03/2021	GENERAL SUMMARY TABLES	
				SHEETS	
				98 of 124	
				CONTRACT	
				RS-41443	
				PROJECT	
				1800182	