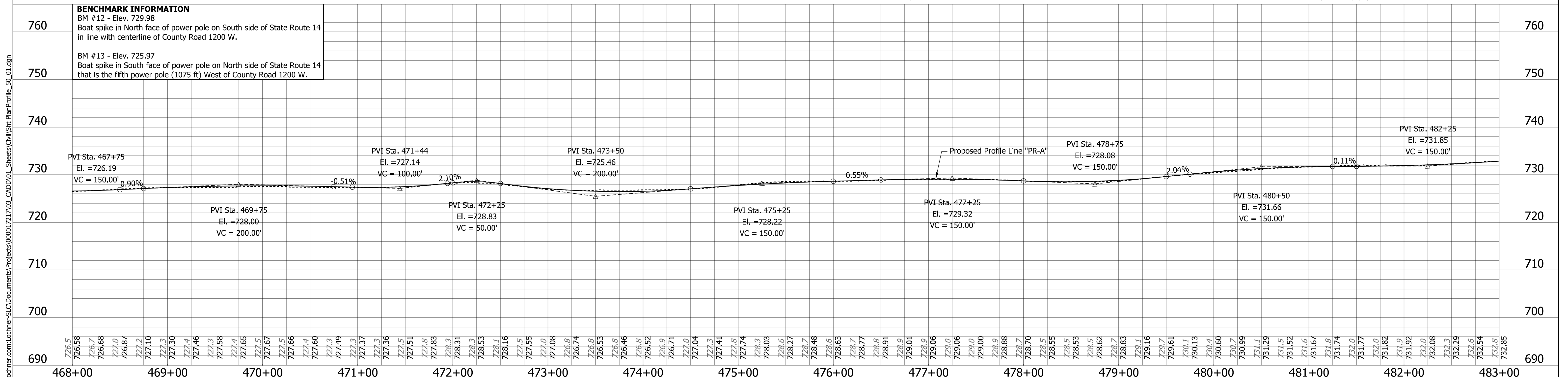


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BENCHMARK INFORMATION

BM #12 - Elev. 729.98
Boat spike in North face of power pole on South side of State Route 14 in line with centerline of County Road 1200 W.

BM #13 - Elev. 725.97
Boat spike in South face of power pole on North side of State Route 14 that is the fifth power pole (1075 ft) West of County Road 1200 W.

LEGEND

(D) HMA for Approaches, Type B consisting of:
165 #/SYD HMA Surface Type B on
1.5" Approach Milling

(D1) HMA for Approaches, Type B consisting of:
165 #/SYD HMA Surface Type B on
Var. Depth HMA Intermediate Type B on
1.5" Approach Milling

(D2) 3' Paving Wedge

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

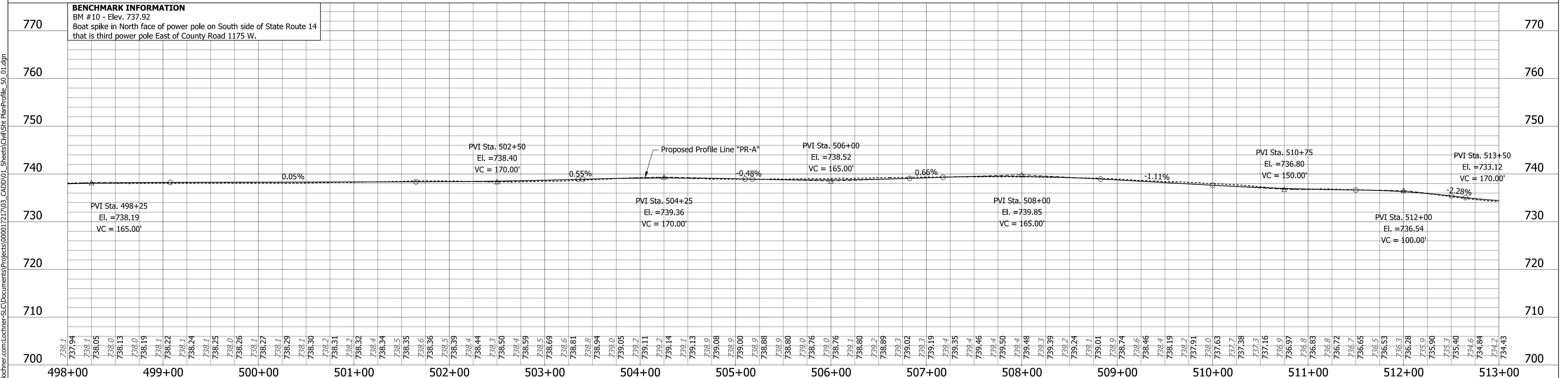
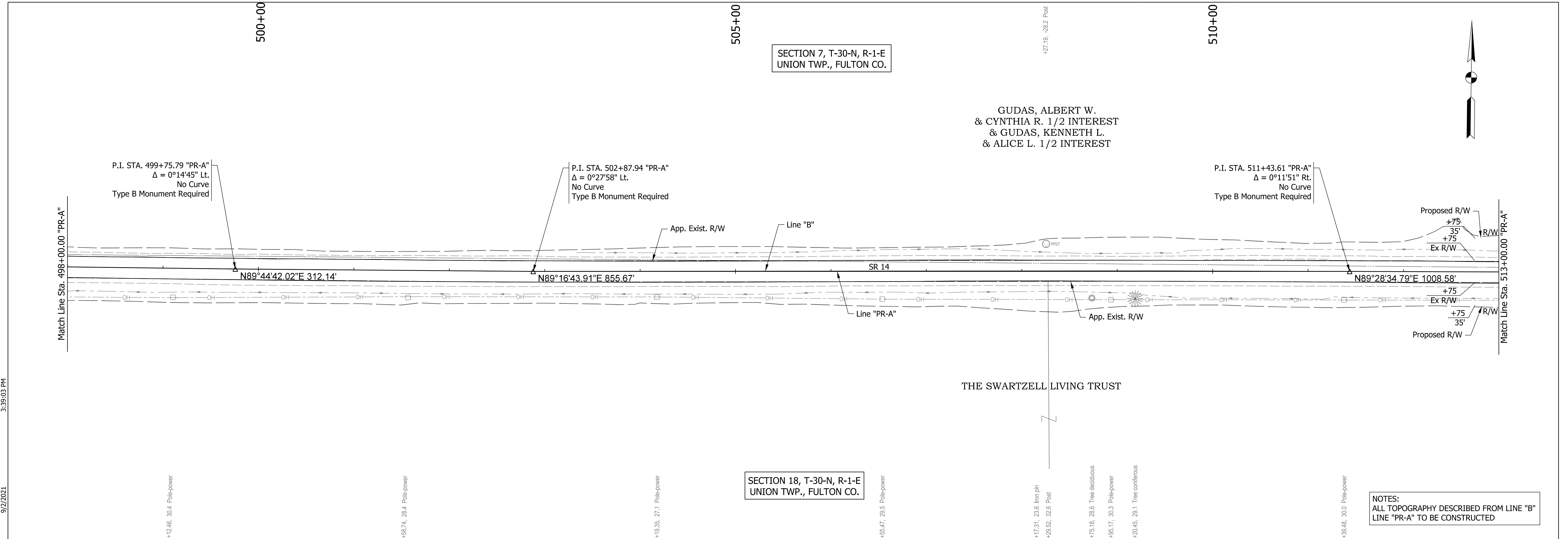
INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN / PROFILE SHEET	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
43 of 125	
PROJECT	
RS-41443 1800182	

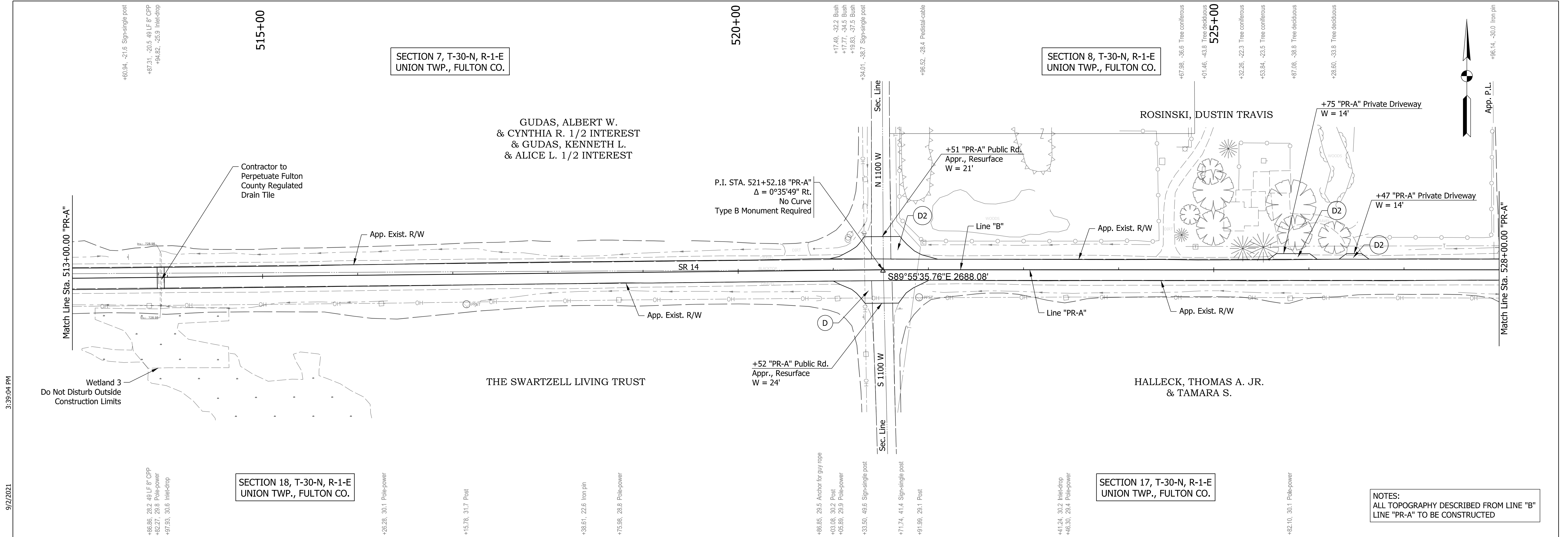
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9/2/2021

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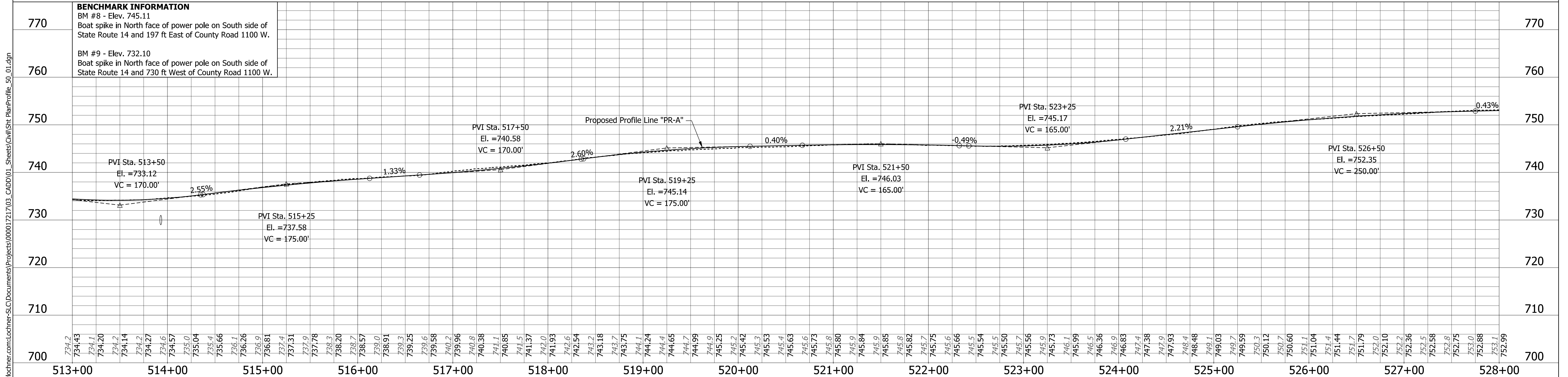
LEGEND (D) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on 1.5" Approach Milling (D2) 3' Paving Wedge (D1) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on Var. Depth HMA Intermediate Type B on 1.5" Approach Milling	RECOMMENDED FOR APPROVAL <i>ENG SIGNATURES</i> DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION PLAN / PROFILE SHEET	HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10'	BRIDGE FILE N/A DESIGNATION 1800182
			DESIGNED: RAR 03/2021 DRAWN: RLK 03/2021 CHECKED: AH 03/2021 CHECKED: AH 03/2021	SHEETS 45 of 125 PROJECT 1800182



3:39:04 PM

9/2/2021

Plot: p:\v\SSC-P\W\T\h\w\cherrick\d0130095\Sh\PlanProfile_50_01.dgn



LEGEND

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1.5" Approach Milling

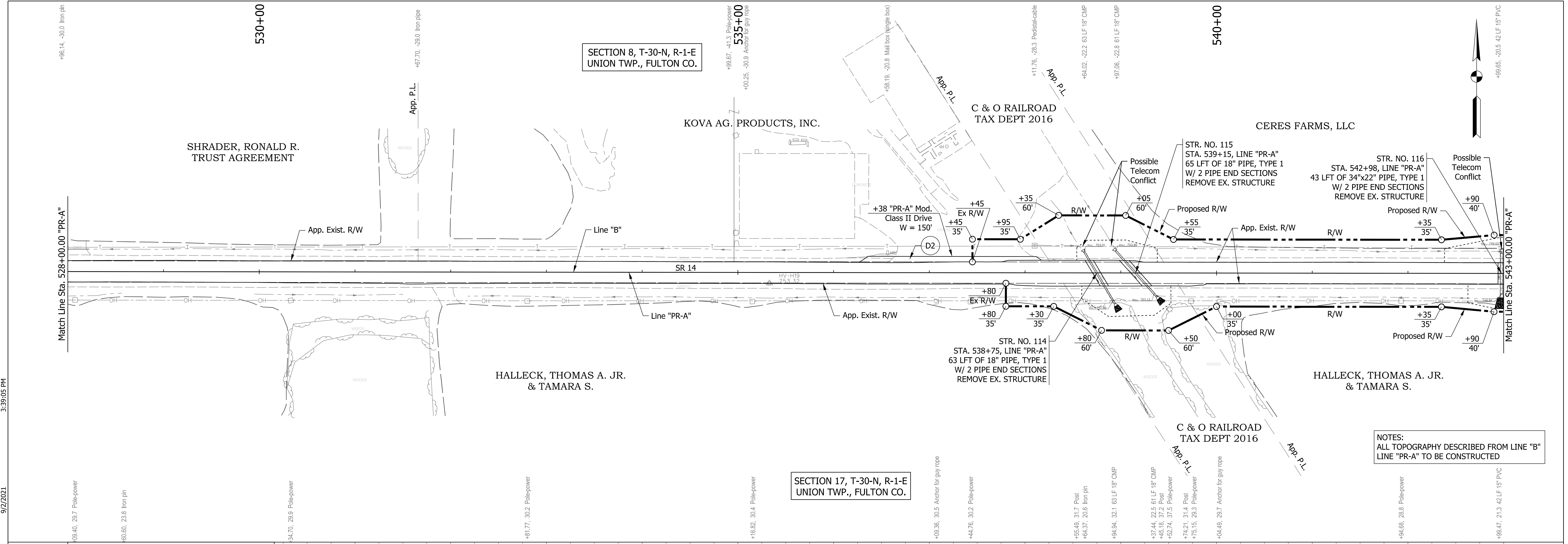
(D2) 3' Paving Wedge

(D1) HMA for Approaches, Type B consisting of:
165 #/SYD HMA Surface Type B on
Var. Depth HMA Intermediate Type B on
1.5" Approach Milling

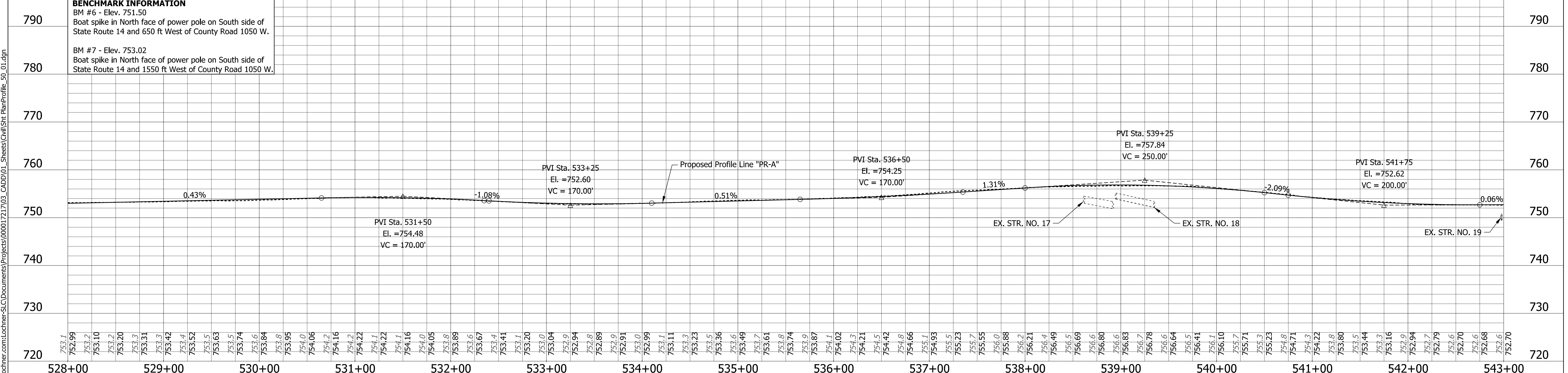
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
		1" = 50'	N/A
PLAN / PROFILE SHEET		VERTICAL SCALE	DESIGNATION
		1" = 10'	1800182
		SHEETS	46 of 125
		CONTRACT	PROJECT
		RS-41443	1800182

NOTES:
ALL TOPOGRAPHY DESCRIBED FROM LINE "B"
LINE "PR-A" TO BE CONSTRUCTED



NOTES:
ALL TOPOGRAPHY DESCRIBED FROM LINE "B"
LINE "PR-A" TO BE CONSTRUCTED



LEGEND (D) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on 1.5" Approach Milling (D1) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on Var. Depth HMA Intermediate Type B on 1.5" Approach Milling (D2) 3' Paving Wedge	RECOMMENDED FOR APPROVAL <i>ENG SIGNATURES</i> DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10'	BRIDGE FILE N/A DESIGNATION 1800182
	DESIGNED: RAR 03/2021 CHECKED: AH 03/2021	DRAWN: RLK 03/2021 CHECKED: AH 03/2021	PLAN / PROFILE SHEET		CONTRACT RS-41443	SHEETS 47 of 125 PROJECT 1800182

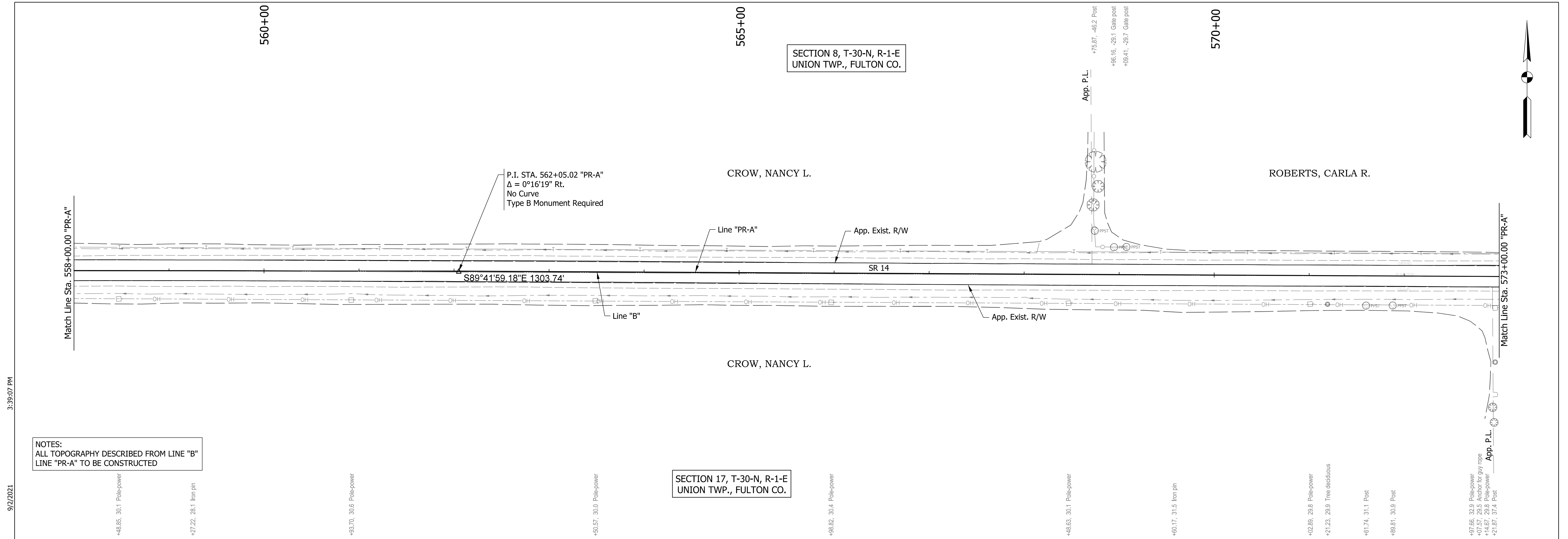
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9/2/2021

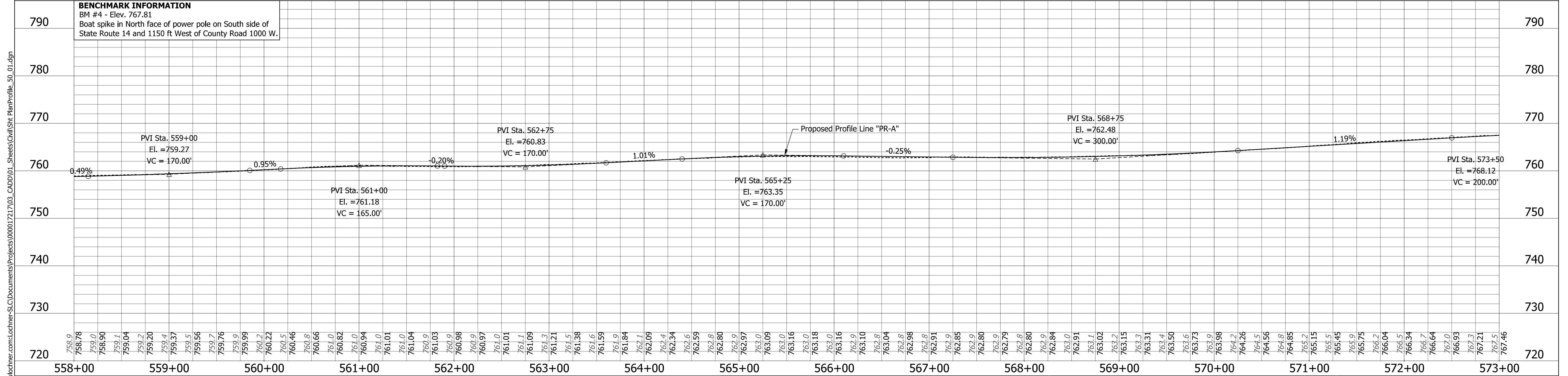
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Model: RD_Sht_32



NOTES:
 ALL TOPOGRAPHY DESCRIBED FROM LINE "B"
 LINE "PR-A" TO BE CONSTRUCTED

BENCHMARK INFORMATION
 BM #4 - Elev. 767.81
 Boat spike in North face of power pole on South side of
 State Route 14 and 1150 ft West of County Road 1000 W.



- LEGEND**
- (D) HMA for Approaches, Type B consisting of:
165 #/SYD HMA Surface Type B on
1.5" Approach Milling
 - (D2) 3' Paving Wedge
 - (D1) HMA for Approaches, Type B consisting of:
165 #/SYD HMA Surface Type B on
Var. Depth HMA Intermediate Type B on
1.5" Approach Milling

RECOMMENDED FOR APPROVAL *ENG SIGNATURES*
 DESIGN ENGINEER DATE

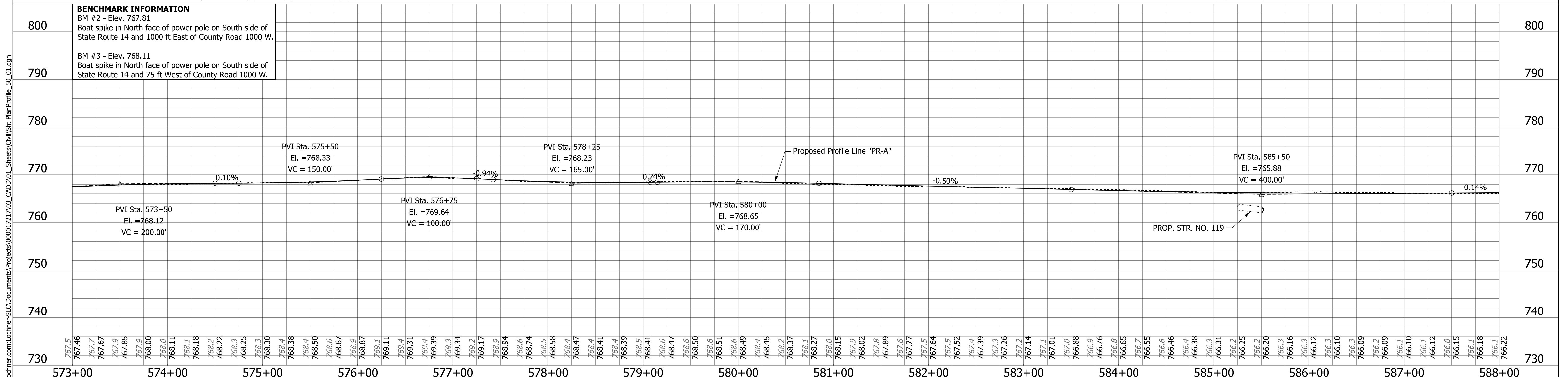
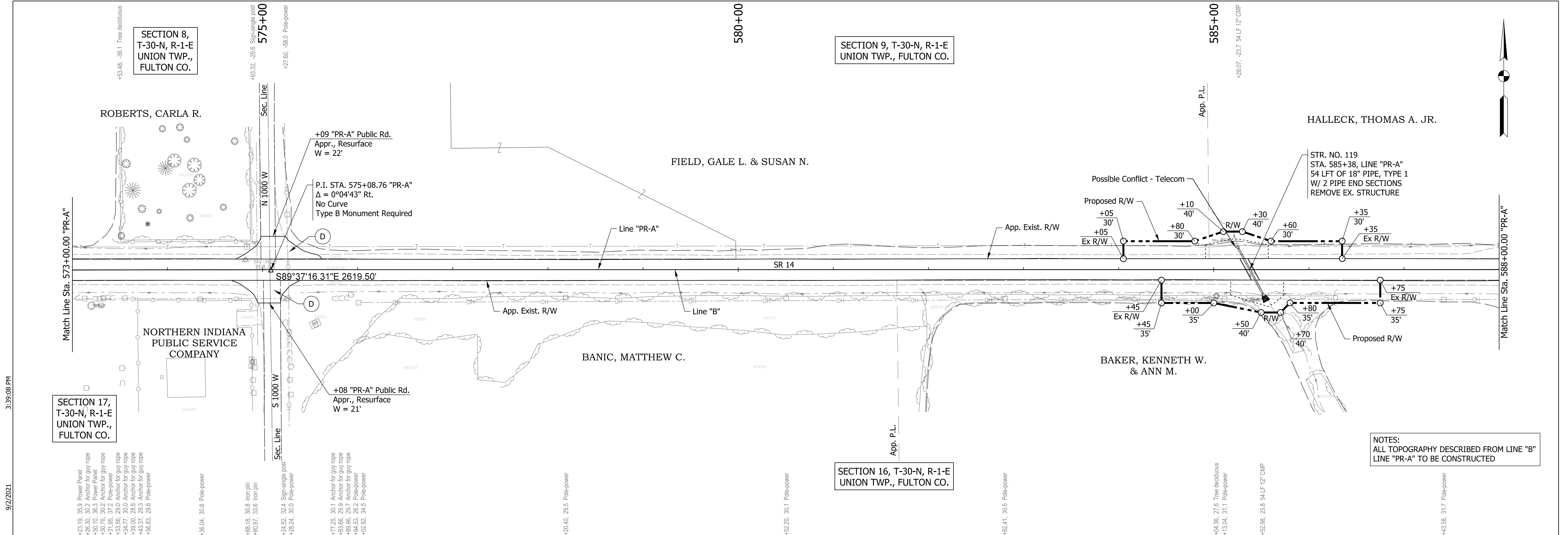
DESIGNED: RAR 03/2021 DRAWN: RLK 03/2021

CHECKED: AH 03/2021 CHECKED: AH 03/2021

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN / PROFILE SHEET

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1800182
SHEETS 49 of 125	
PROJECT RS-41443 1800182	



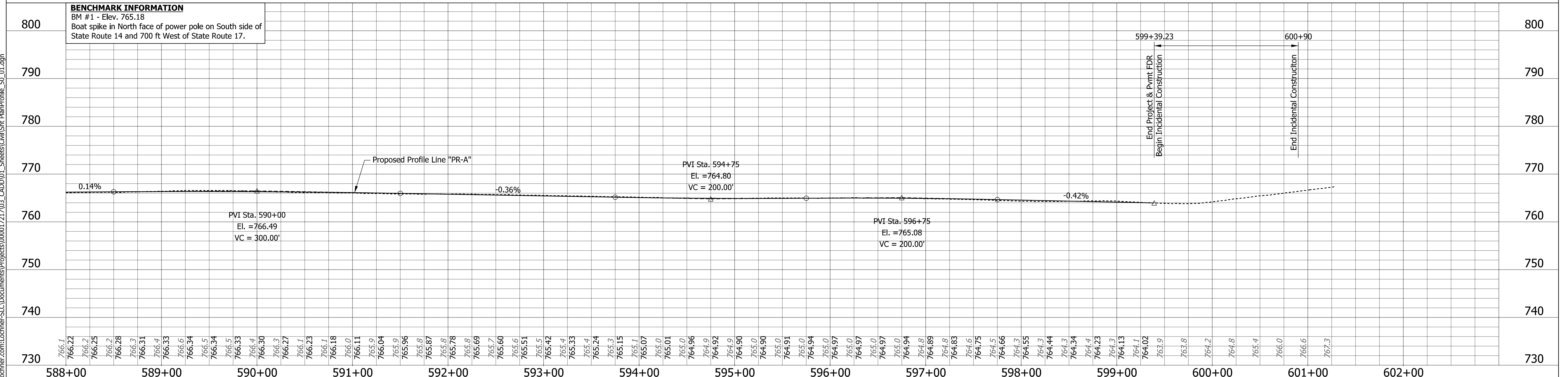
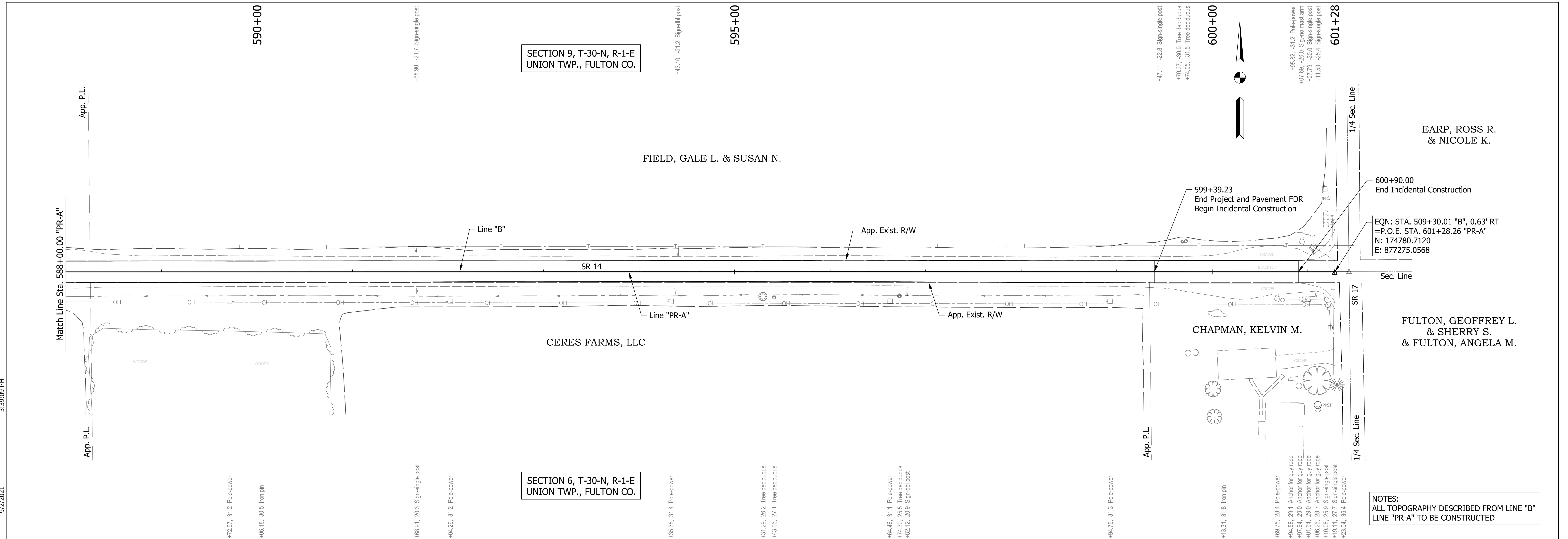
LEGEND (D) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on 1.5" Approach Milling (D1) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on Var. Depth HMA Intermediate Type B on 1.5" Approach Milling (D2) 3' Paving Wedge	RECOMMENDED FOR APPROVAL <i>ENG SIGNATURES</i> DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION PLAN / PROFILE SHEET	HORIZONTAL SCALE 1" = 50' BRIDGE FILE N/A
	DESIGNED: RAR 03/2021 DRAWN: RLK 03/2021 CHECKED: AH 03/2021 CHECKED: AH 03/2021		VERTICAL SCALE 1" = 10' DESIGNATION 1800182

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9/2/2021

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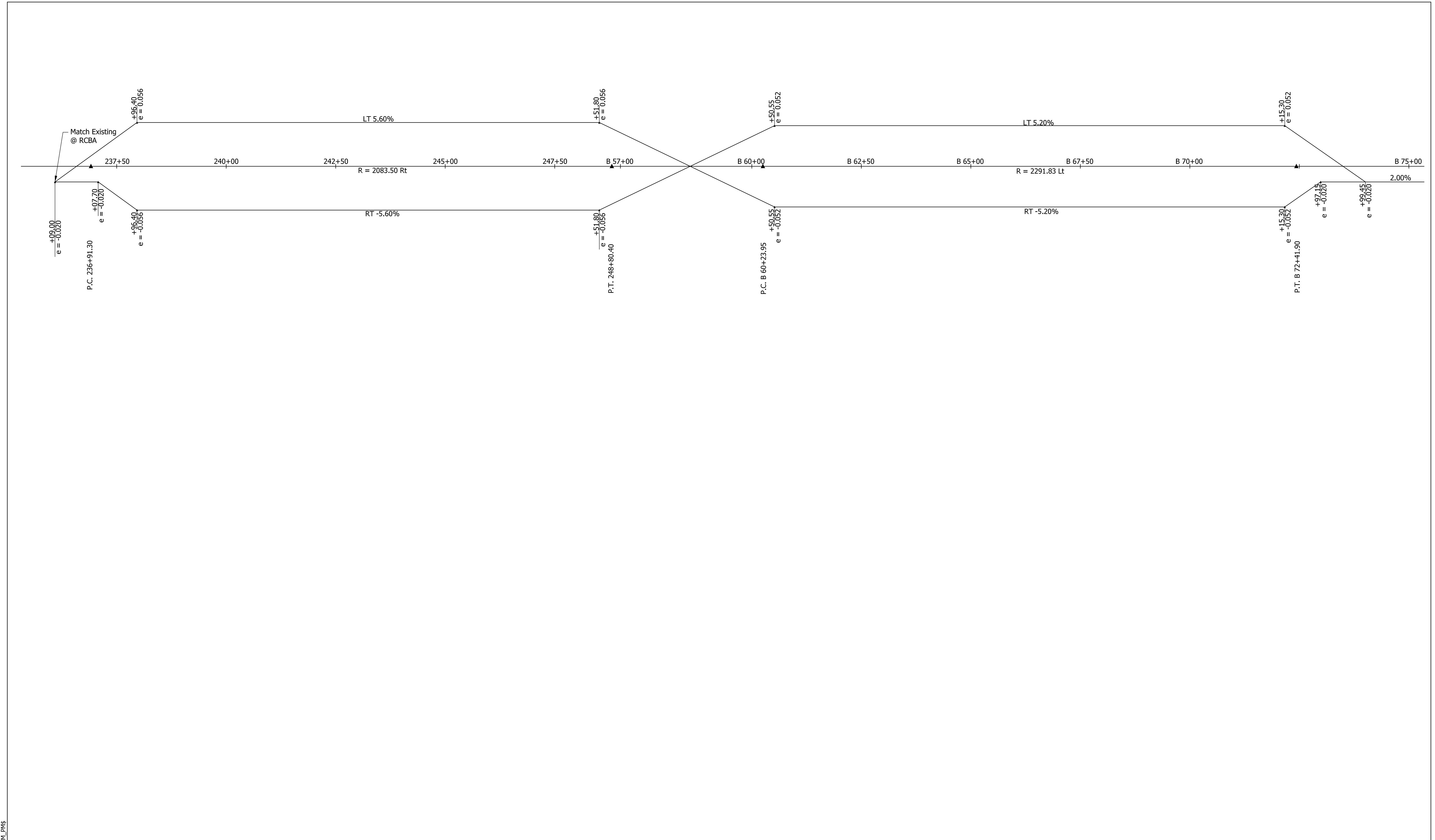


- LEGEND**
- (D) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on 1.5" Approach Milling
 - (D2) 3' Paving Wedge
 - (D1) HMA for Approaches, Type B consisting of: 165 #/SYD HMA Surface Type B on Var. Depth HMA Intermediate Type B on 1.5" Approach Milling

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

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN / PROFILE SHEET

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1800182
SHEETS 51 of 125	
PROJECT CONTRACT RS-41443 1800182	



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	DESIGN ENGINEER		DATE
DESIGNED: JS	04/2021	DRAWN: JS	04/2021
CHECKED: AH	04/2021	CHECKED: AH	04/2021

**INDIANA
DEPARTMENT OF TRANSPORTATION**

SUPERELEVATION DETAILS

SCALE	BRIDGE FILE
NONE	\$BRIDGE_FILES\$
	DESIGNATION
	1800182
SHEETS	
	53 of 125
CONTRACT	PROJECT
RS-41443	1800182

230+00

231+00

232+00

233+00

234+00

235+00

236+00

237+00



Plot: 9/2/2025 9:27 PM \$AM_PMS

E Remove Existing Type 1 Guardrail End Treatment. Replace with Type OS End Treatment. Maintain existing guardrail end location.

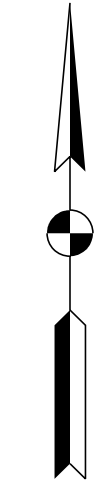
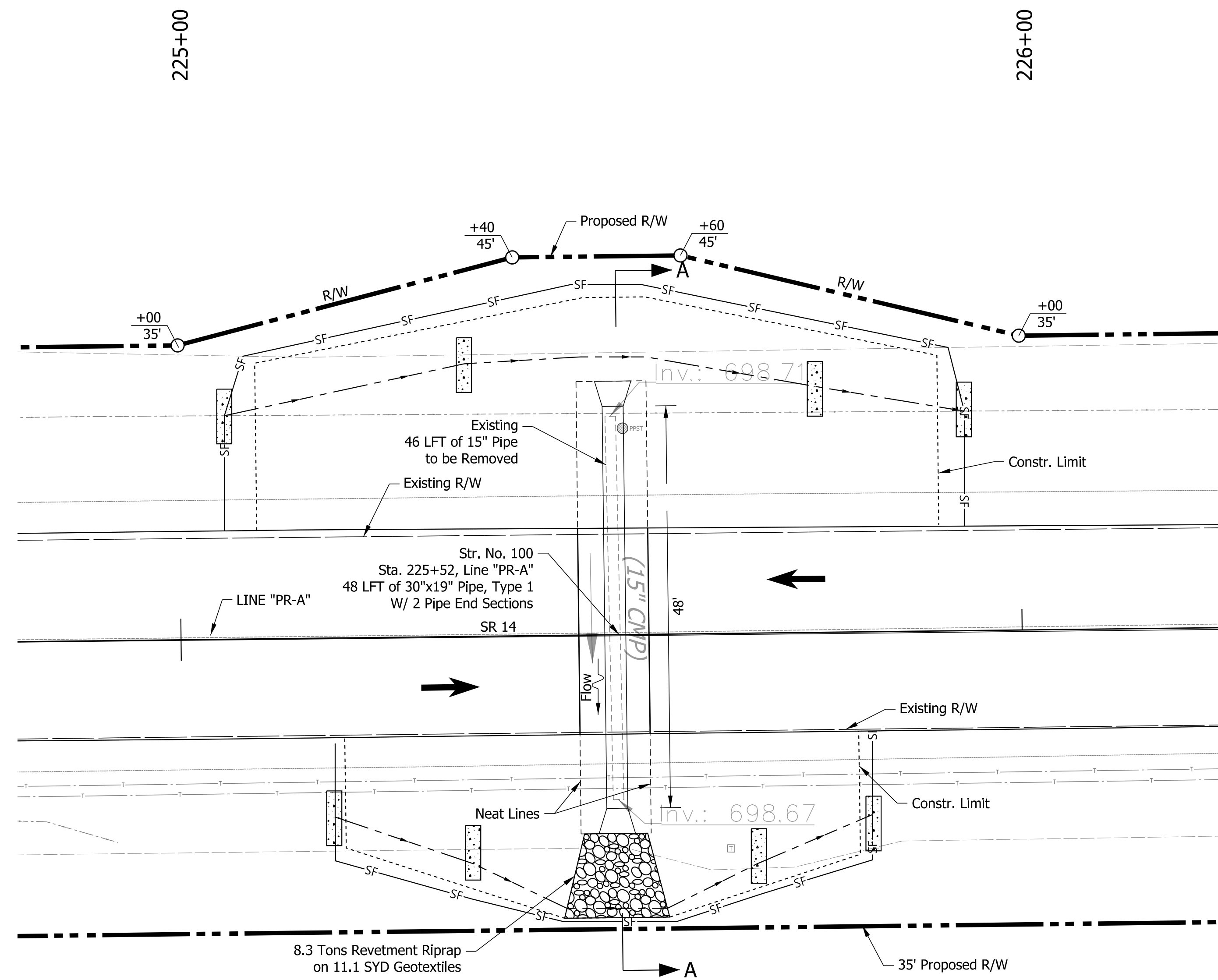
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	DESIGN ENGINEER		DATE
DESIGNED: KG	4/1/2021	DRAWN: KG	4/1/2021
CHECKED: JS	4/1/2021	CHECKED: JS	4/1/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAIL

SCALE	BRIDGE FILE
1" = 25'	\$BRIDGE_FILE\$
	DESIGNATION
	1800182
	SHEETS
	54 of 125
CONTRACT	PROJECT
RS-41443	1800182

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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

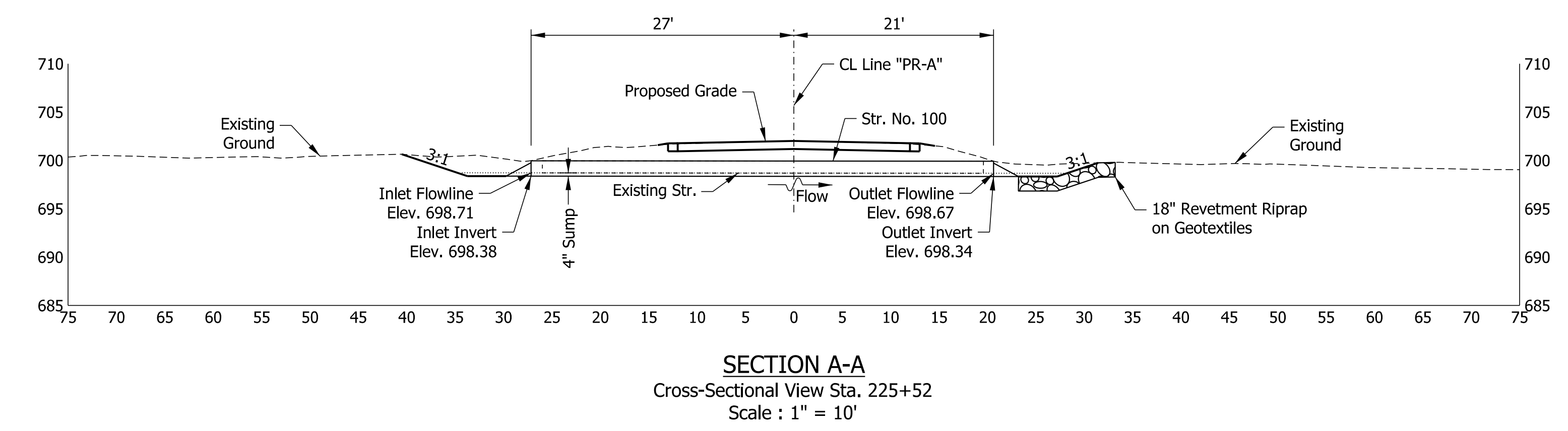
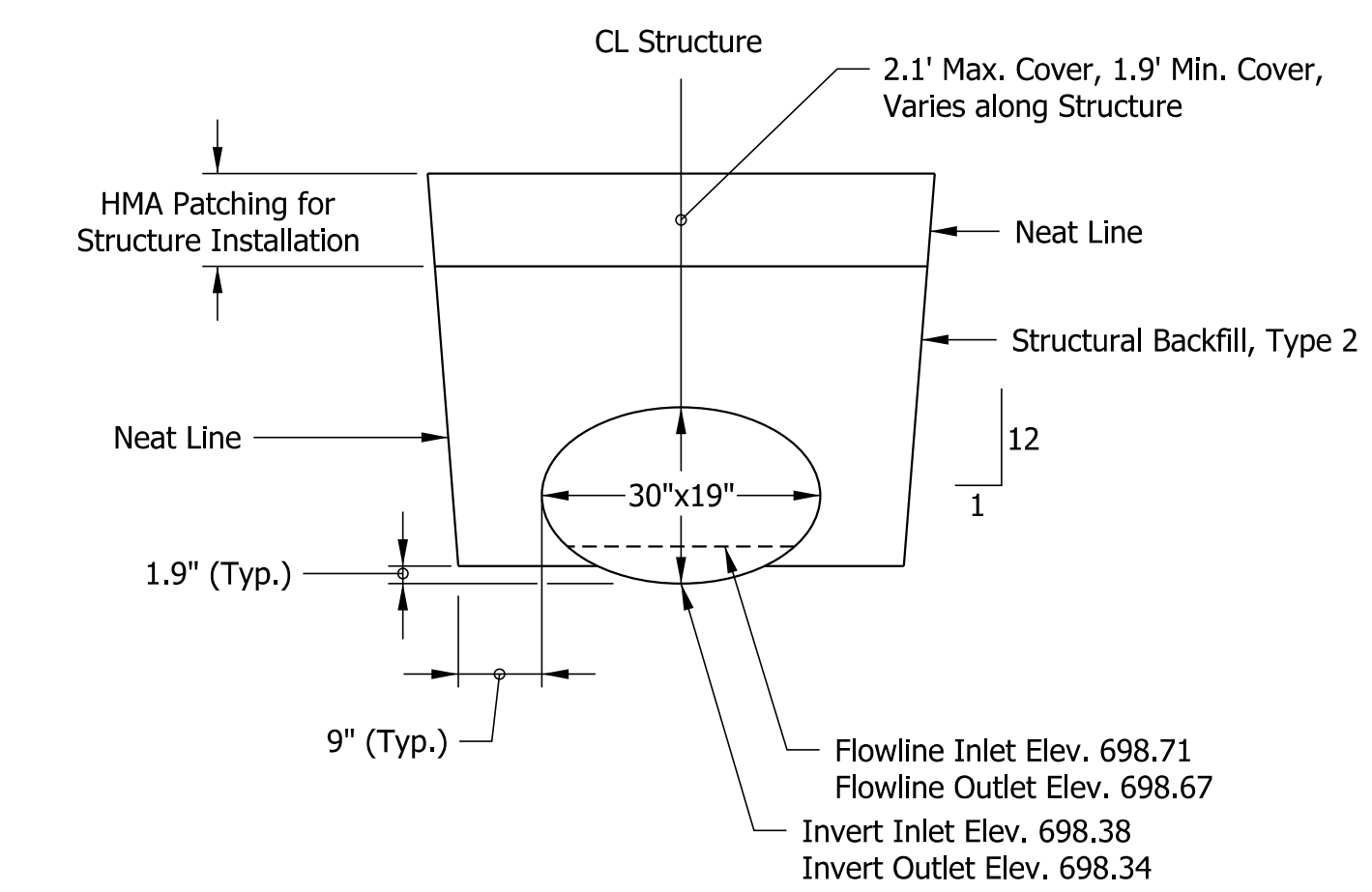
Proposed Structure 30"x19" RCEP

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

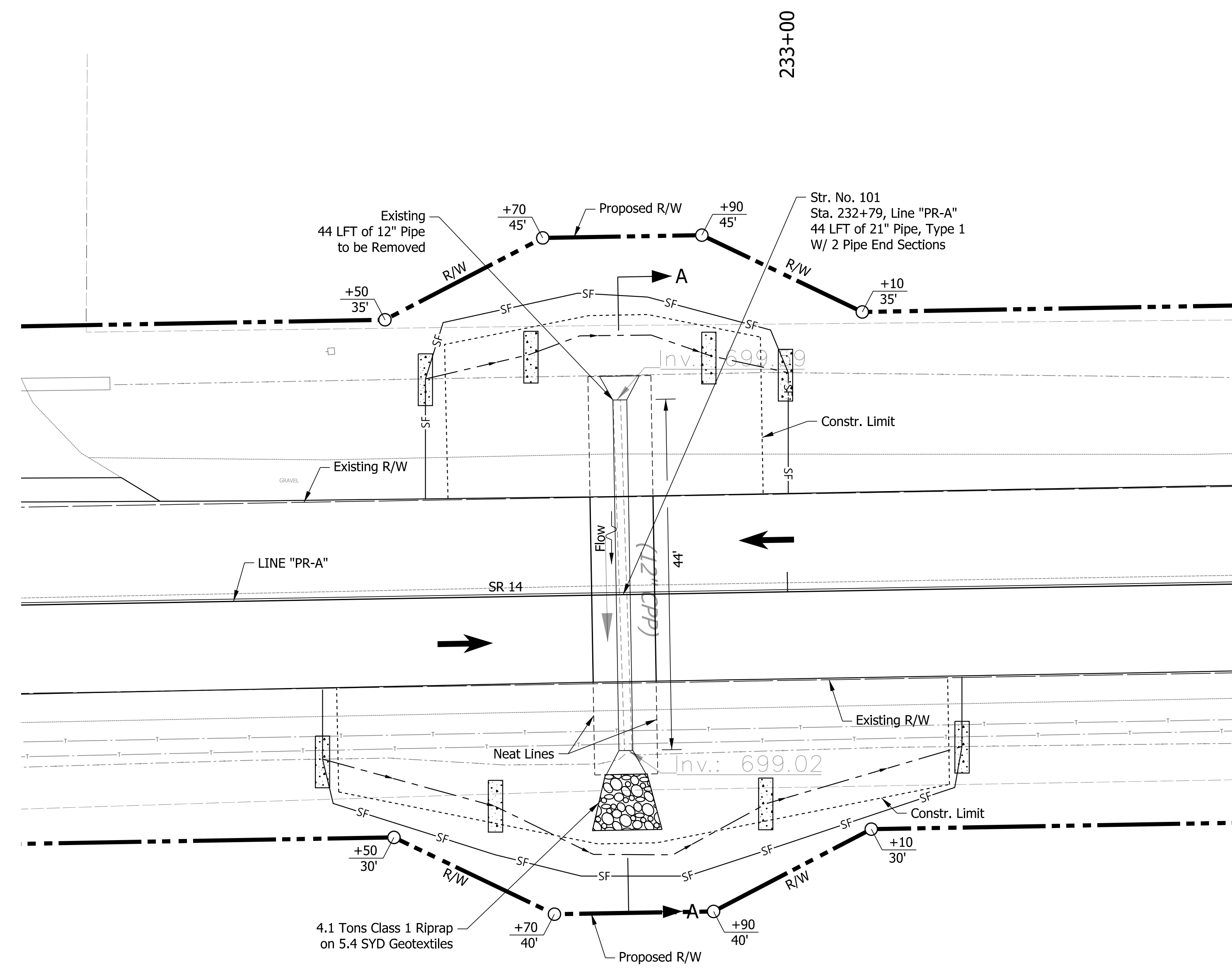
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
 DEPARTMENT OF TRANSPORTATION

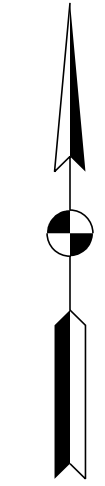
STRUCTURE DETAILS
 STR. NO. 100

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

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PLAN VIEW DETAILS
SCALE : 1" = 10'

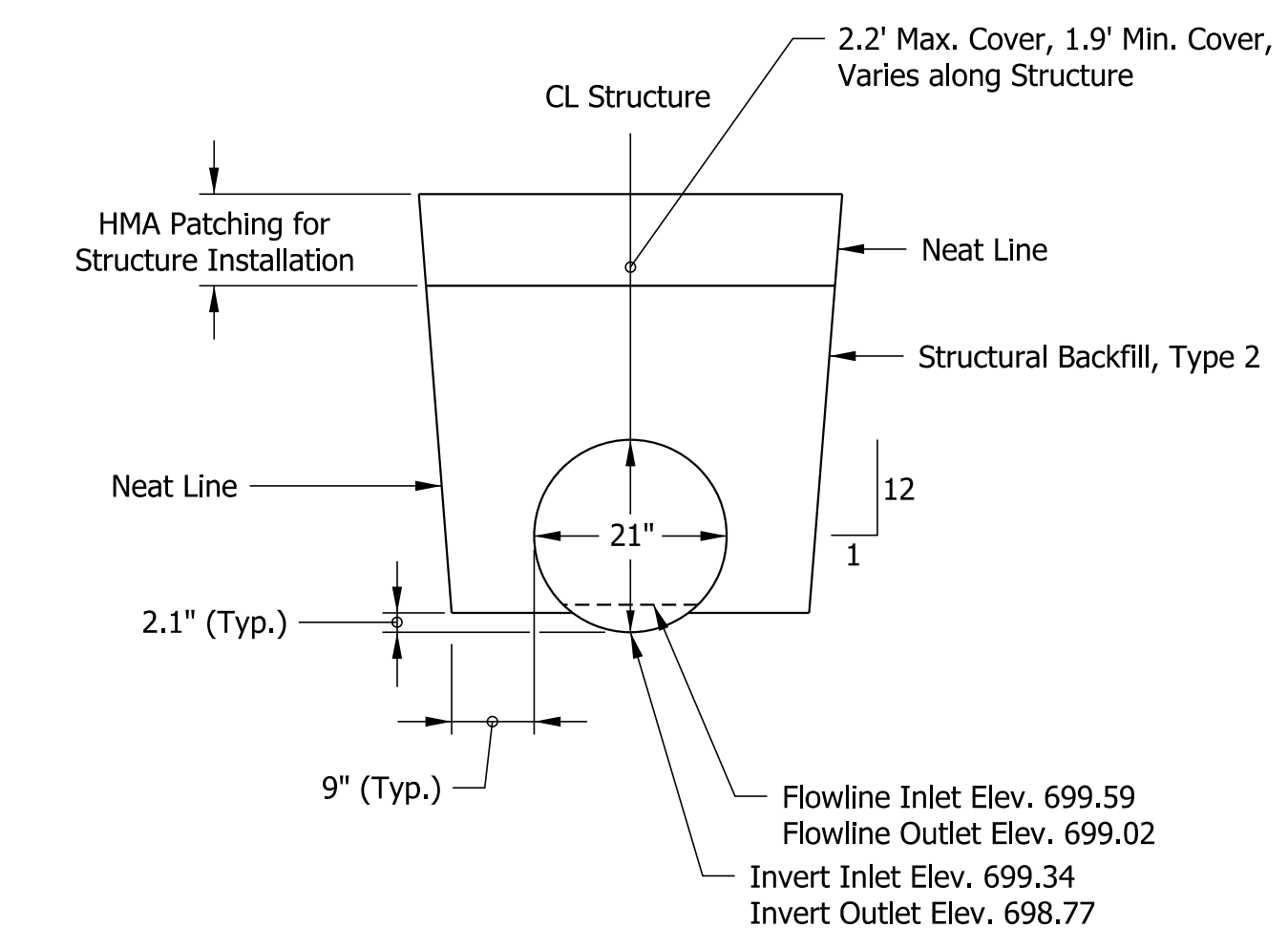


REINFORCED CONCRETE PIPE
 SPAN: 21", RISE: 21"
 SKEW: 0°, LINE "PR-A"
 SR 14 OVER UNT
 PULASKI COUNTY, INDIANA

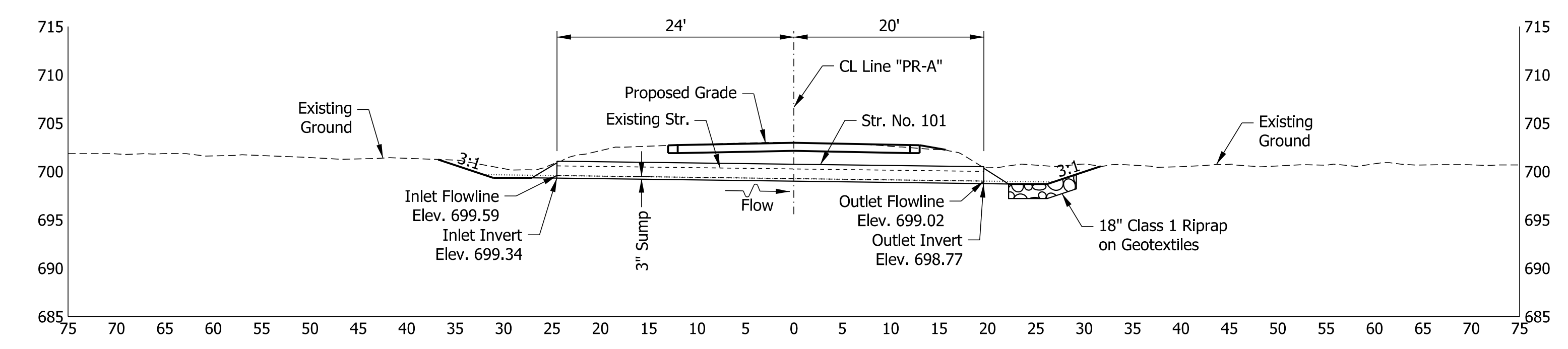
HYDRAULIC DATA

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

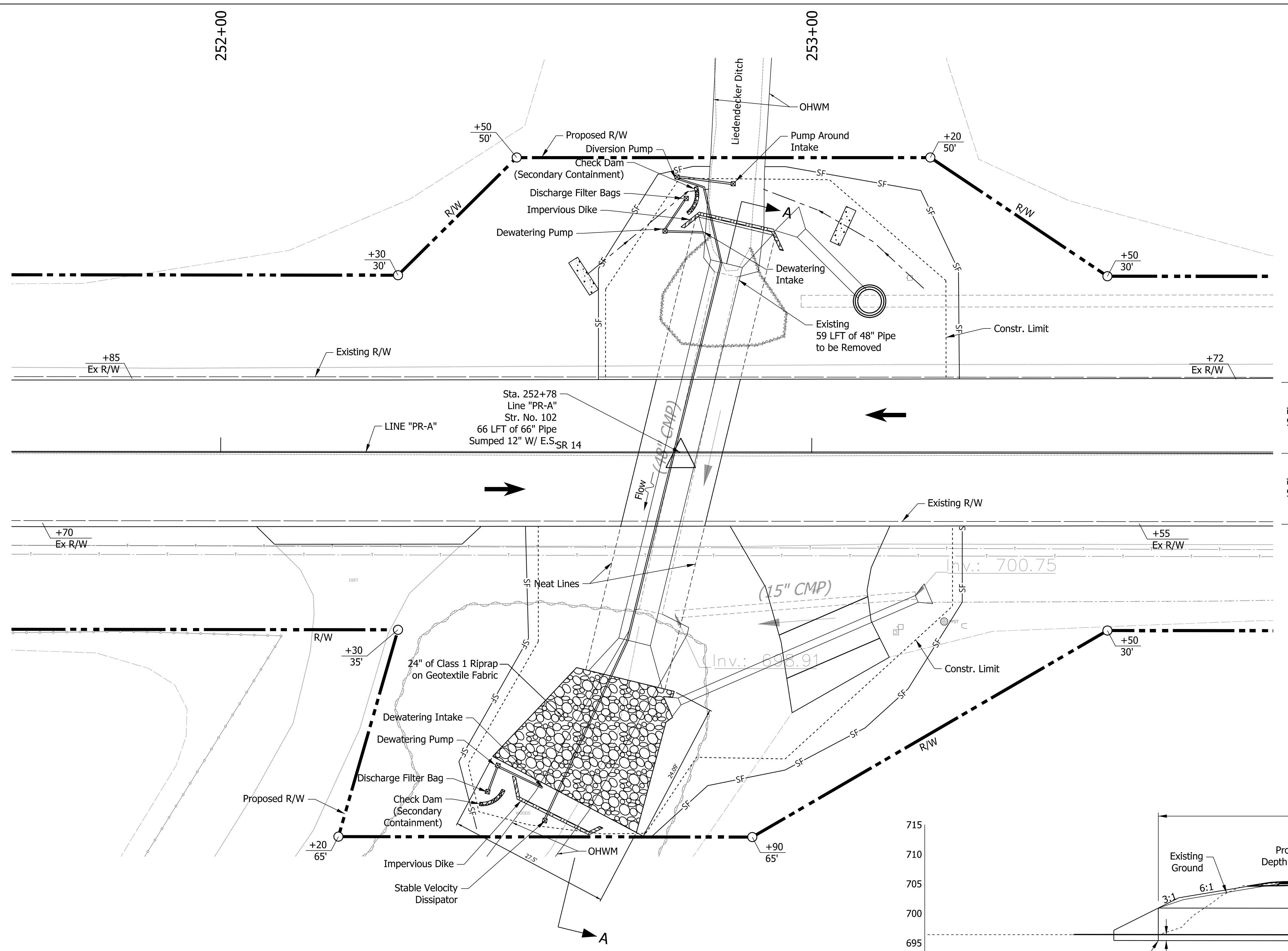
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	XX/XX/2020	DATE
DESIGNED:	RAR	03/2021	DRAWN:	RLK 03/2021
CHECKED:	AH	03/2021	CHECKED:	AH 03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 101

SCALE	AS SHOWN	BRIDGE FILE	N/A
		DESIGNATION	1800182
		SHEETS	56 of 125
CONTRACT	RS-41443	PROJECT	1800182

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PLAN VIEW DETAILS
SCALE : 1" = 10'

Note: Re-seed all disturbed areas with Mulched Seeding, Type R, after work is complete. Temporary Seed and Mulch shall be used until permanent seeding is complete.

- Temporary Check Dam
- Silt Fence

For Dewatering and Pump Around Details, see Str. 110 Structure Detail sheet.

REINFORCED CONCRETE PIPE

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

HYDRAULIC DATA

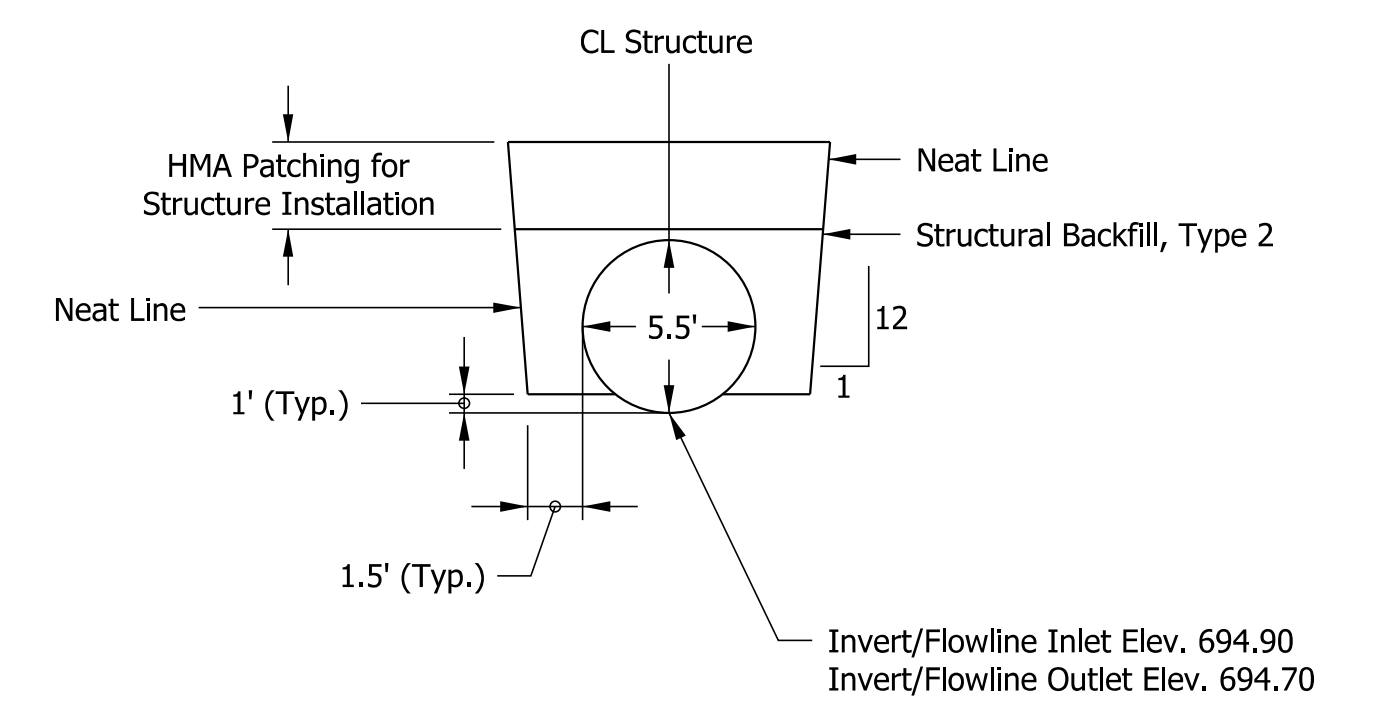
Drainage Area	417.2	Acres
Q100 Discharge	155.0	CFS
Q25 Discharge	N/A	CFS
Q100 Water Surface Elevation (Outlet Depth)	N/A	Ft
Design Roadway Serviceability Elevation	N/A	Ft

Proposed Structure 66" Circular Corrugated Pipe

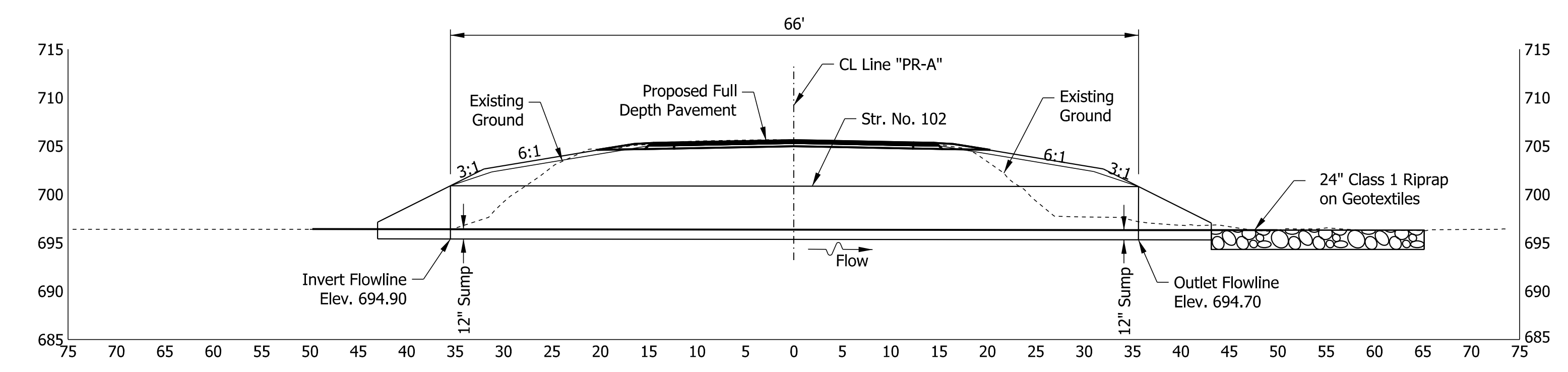
Waterway Area Below Q100 Elevation	17.90	Sq. Ft.
Q100 Existing Headwater Elevation	90.1	Ft
Backwater	2.69	Ft
Outlet Velocity (Q50)	8.21	Ft/s
Scour Protection	Class 1	

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'

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

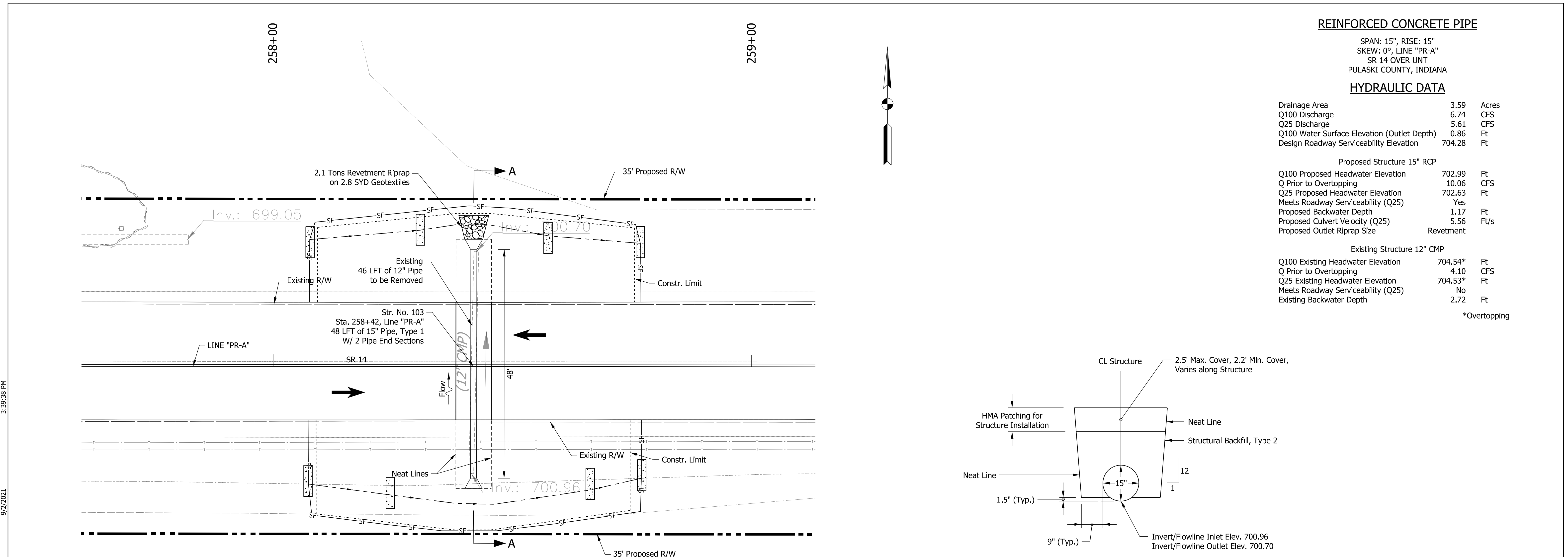
STRUCTURE DETAILS
STR. NO. 102

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	57 of 125
CONTRACT	PROJECT
RS-41443	1800182

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9/2/2021

Plot: pw:\VSSC-PW\INT.h\lochner.com\Projects\000017217\03_CADD\01_Sheets\Civil\Str Structure 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	3.59	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

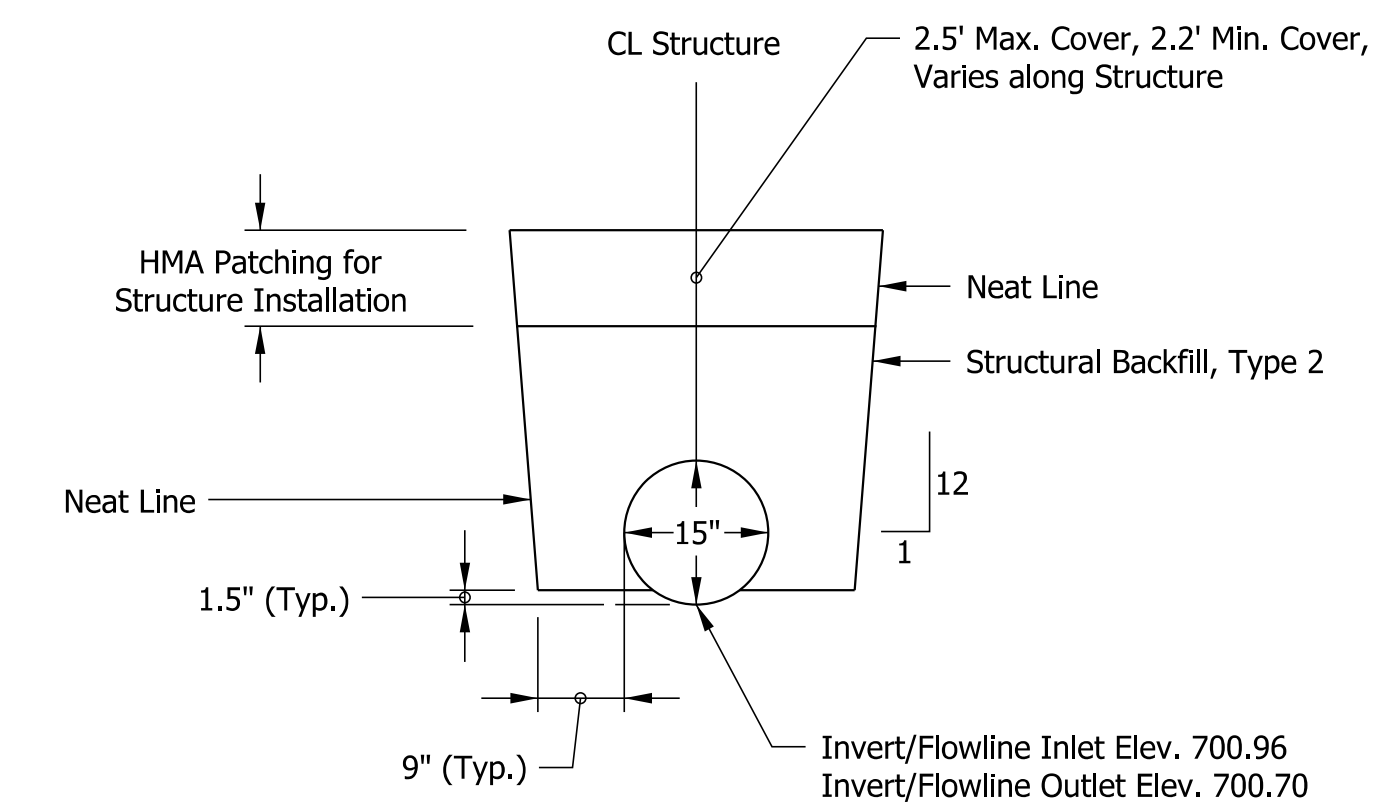
Proposed Structure 15" RCP

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	

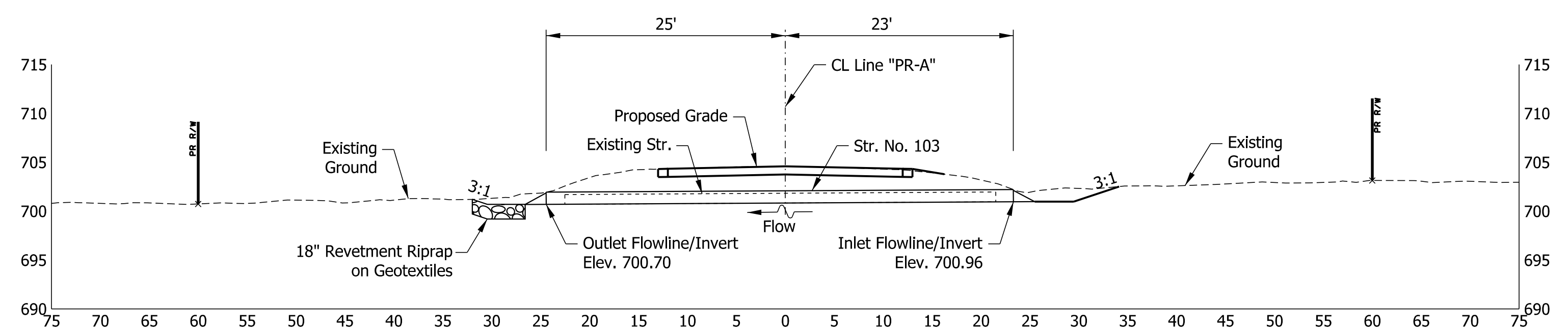
Existing Structure 12" CMP

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



TYPICAL EXCAVATION AND BACKFILL LIMITS
Elevation View, Scale: NTS



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

- Temporay Check Dam
- Silt Fence

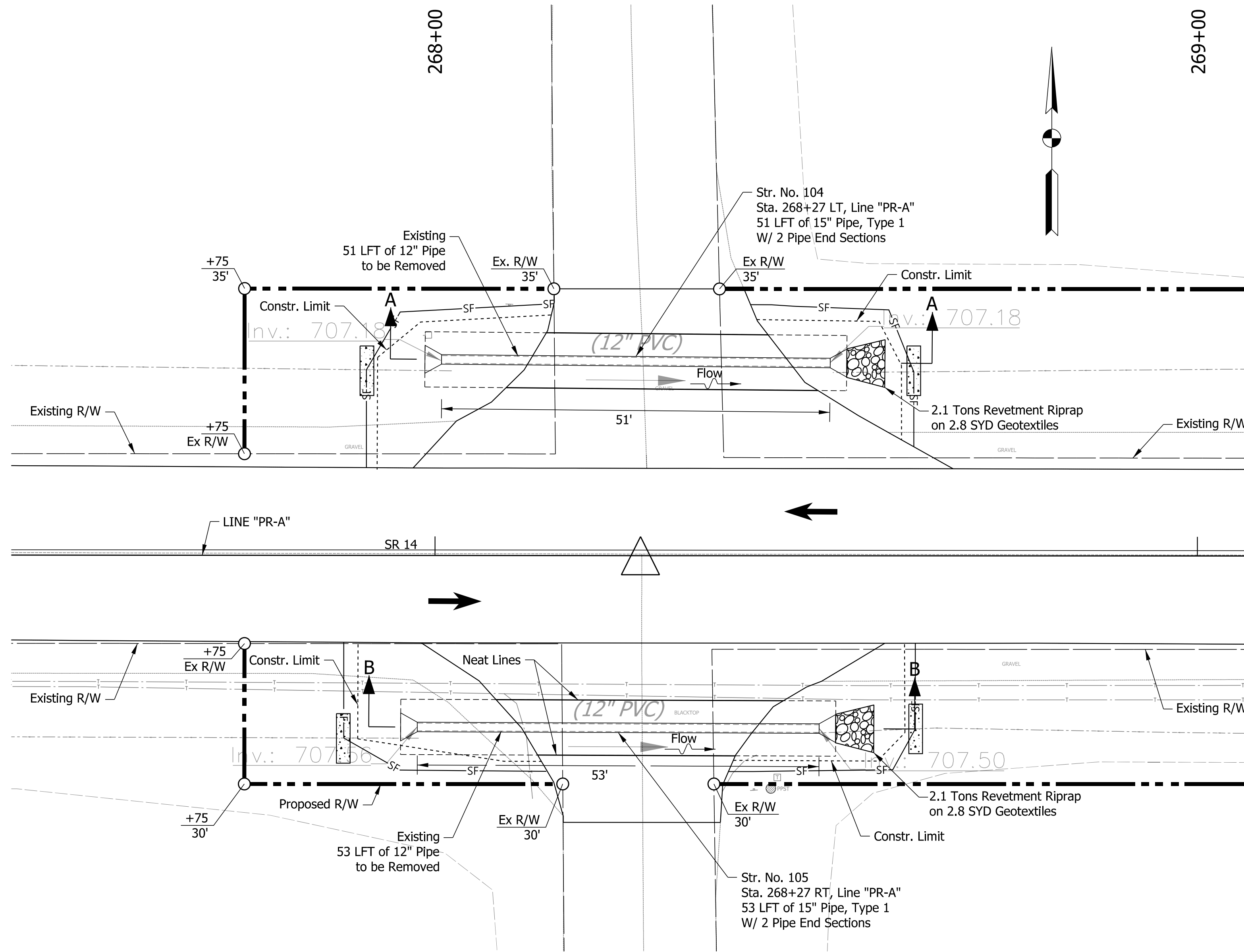
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

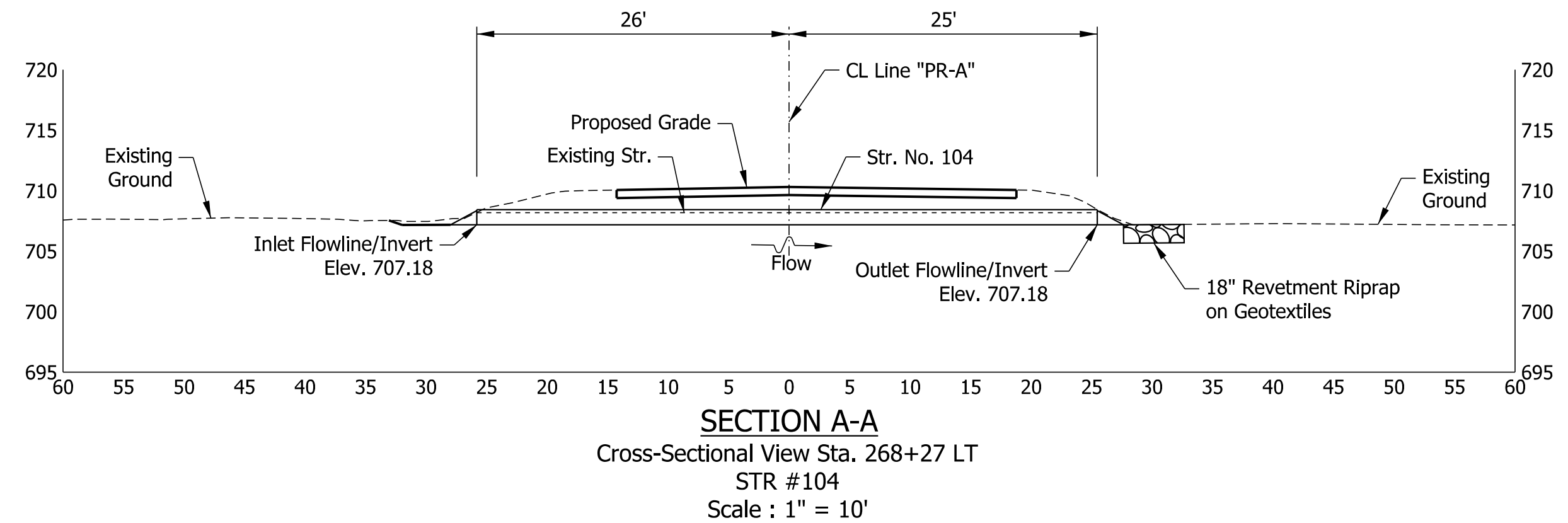
STRUCTURE DETAILS
STR. NO. 103

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	58 of 125
CONTRACT	PROJECT
RS-41443	1800182

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 9/2/2021
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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'

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

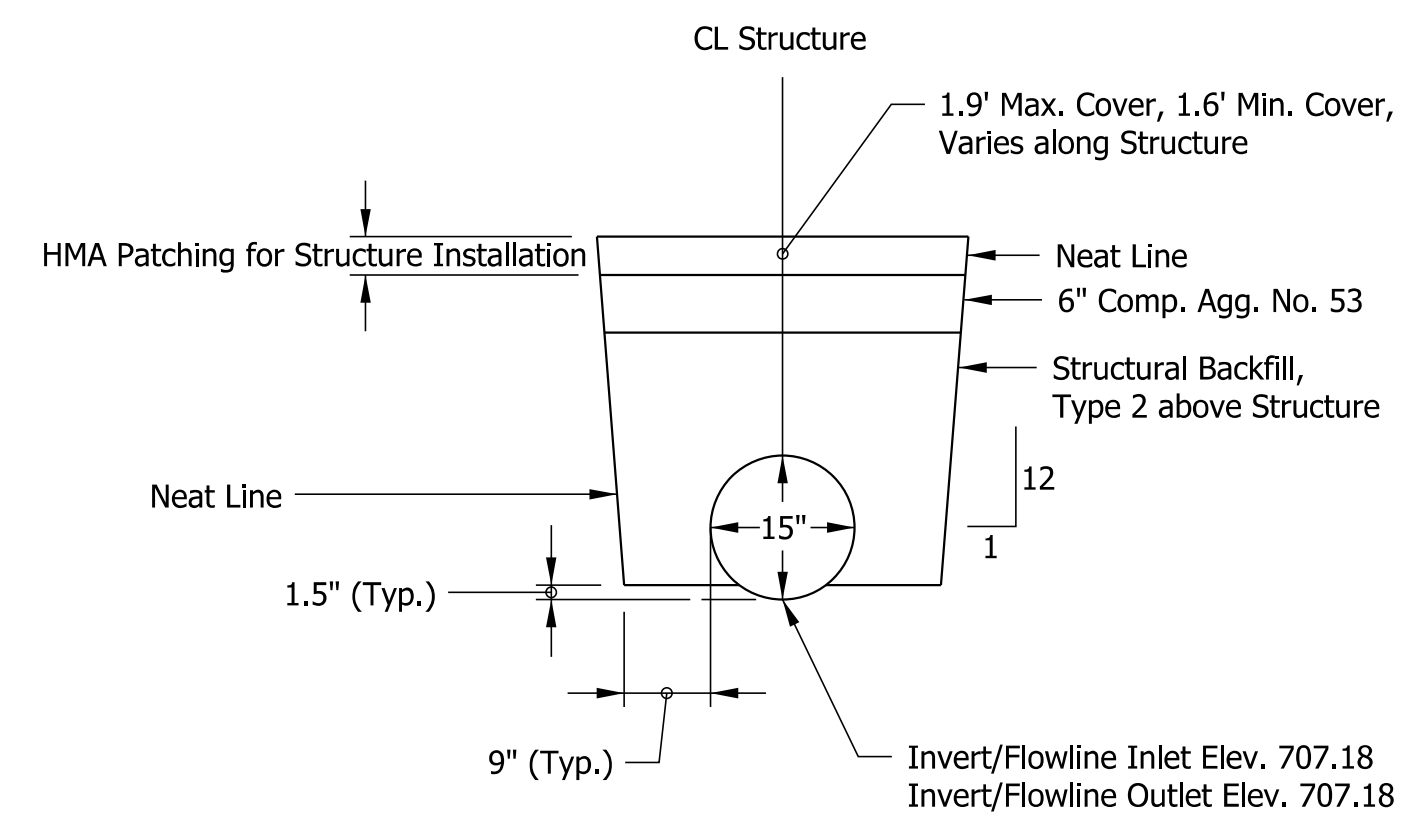
Drainage Area	0.45	Acres
Q100 Discharge	1.23	CFS
Q25 Discharge	1.03	CFS
Q100 Water Surface Elevation (Outlet Depth)	0.54	Ft
Design Roadway Serviceability Elevation	710.57	Ft

Proposed Structure 15" RCP

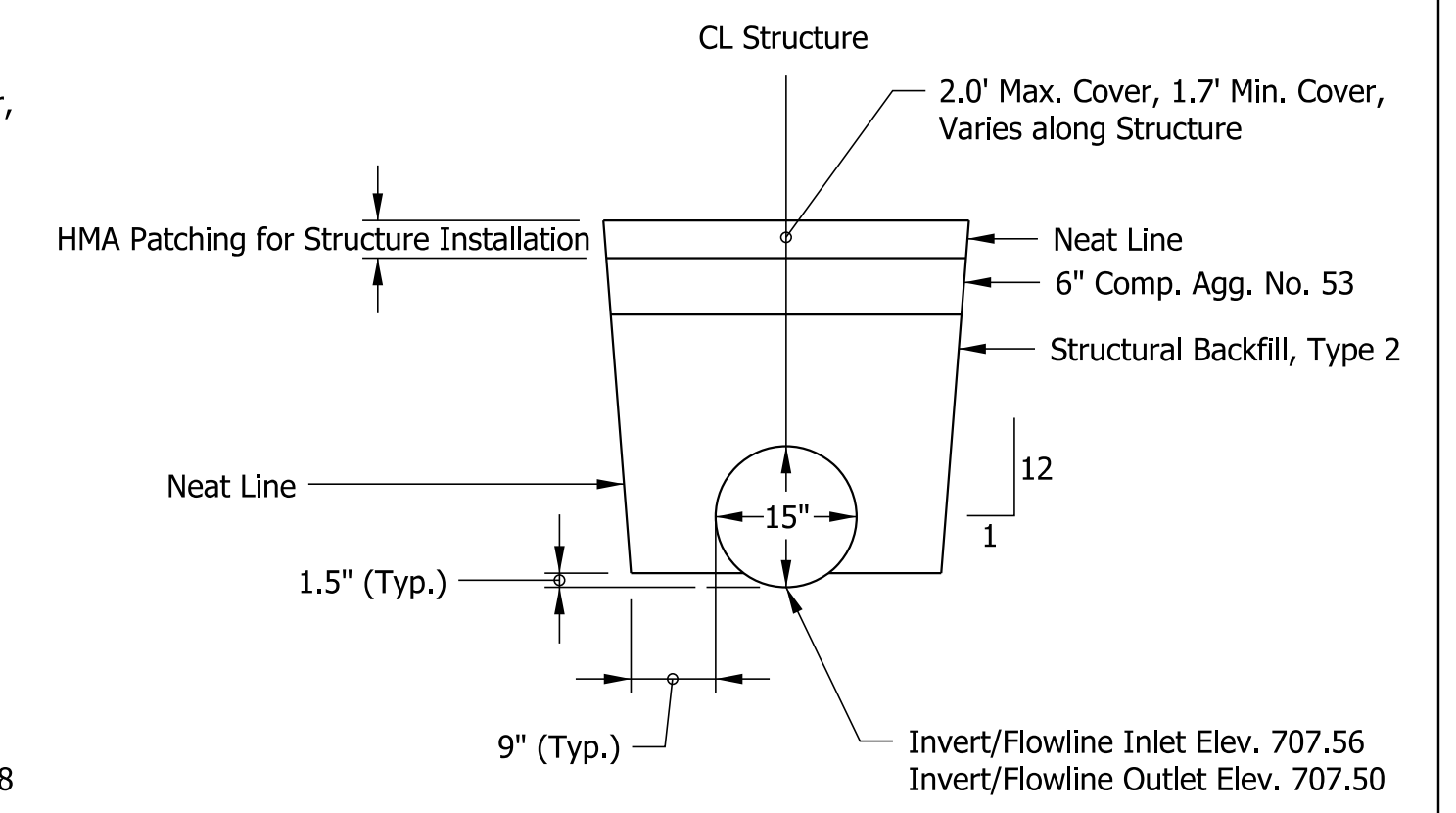
Q100 Proposed Headwater Elevation	708.26	Ft
Q25 Proposed Headwater Elevation	708.20	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.16	Ft
Proposed Culvert Velocity (Q25)	2.23	Ft/s
Proposed Outlet Riprap Size	Revetment	

Existing Structure 12" PVC

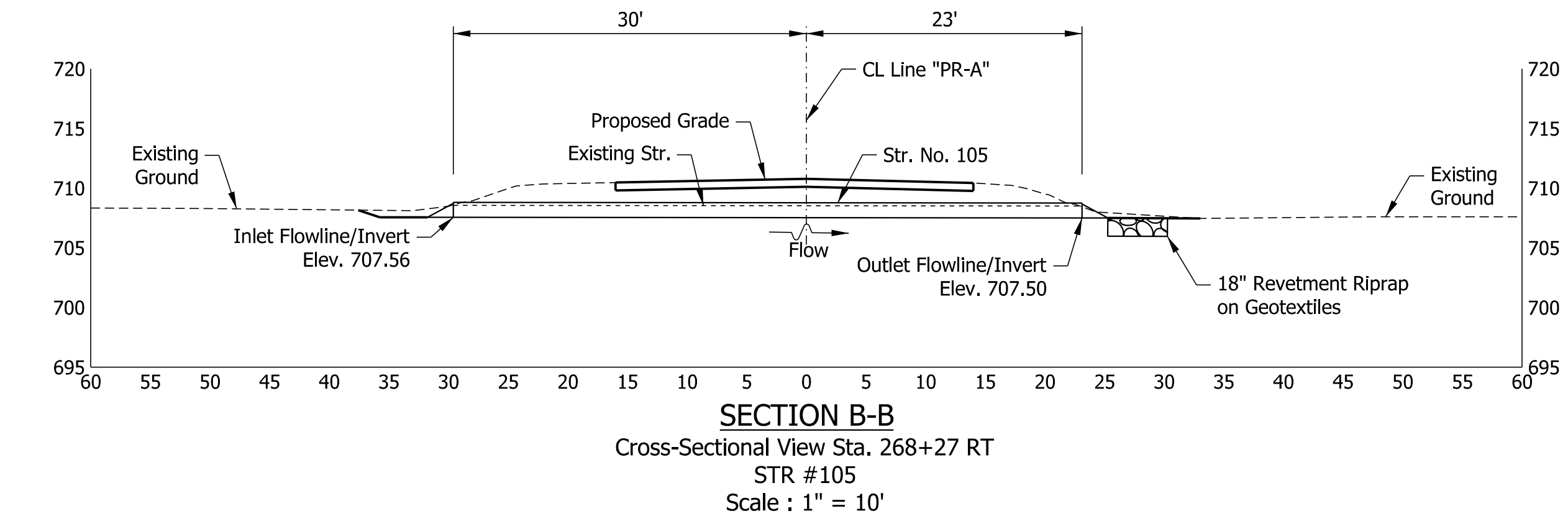
Q100 Existing Headwater Elevation	708.35	Ft
Q25 Existing Headwater Elevation	708.28	Ft
Meets Roadway Serviceability (Q25)	Yes	
Existing Backwater Depth	0.25	Ft



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



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



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

- Temporary Check Dam
- Silt Fence

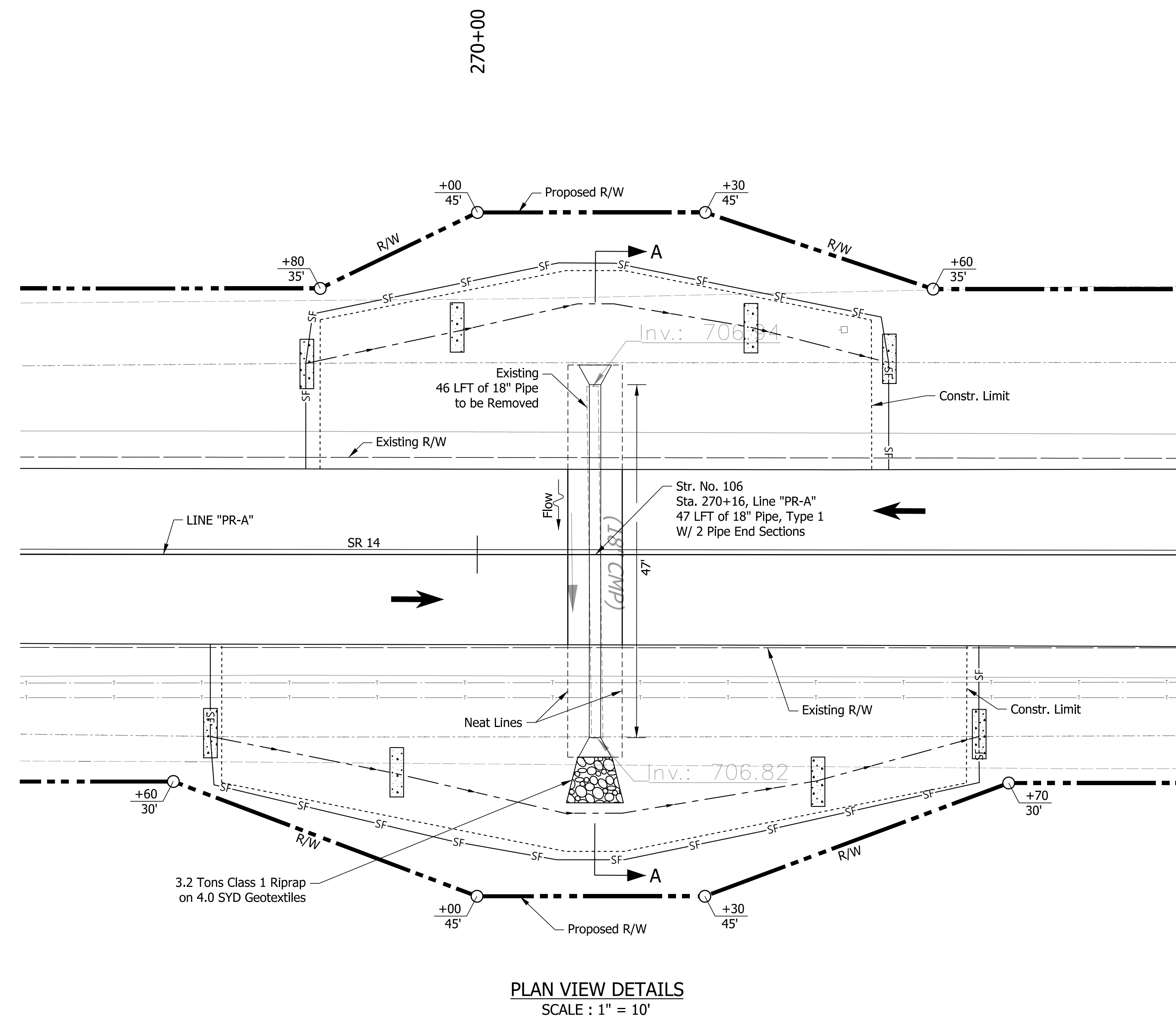
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN: RLK
CHECKED:	AH	03/2021	CHECKED: AH

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 104 & 105

SCALE	AS SHOWN	BRIDGE FILE	N/A
		DESIGNATION	1800182
		SHEETS	59 of 125
		PROJECT	1800182
		CONTRACT	RS-41443

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PLAN VIEW DETAILS
SCALE : 1" = 10'

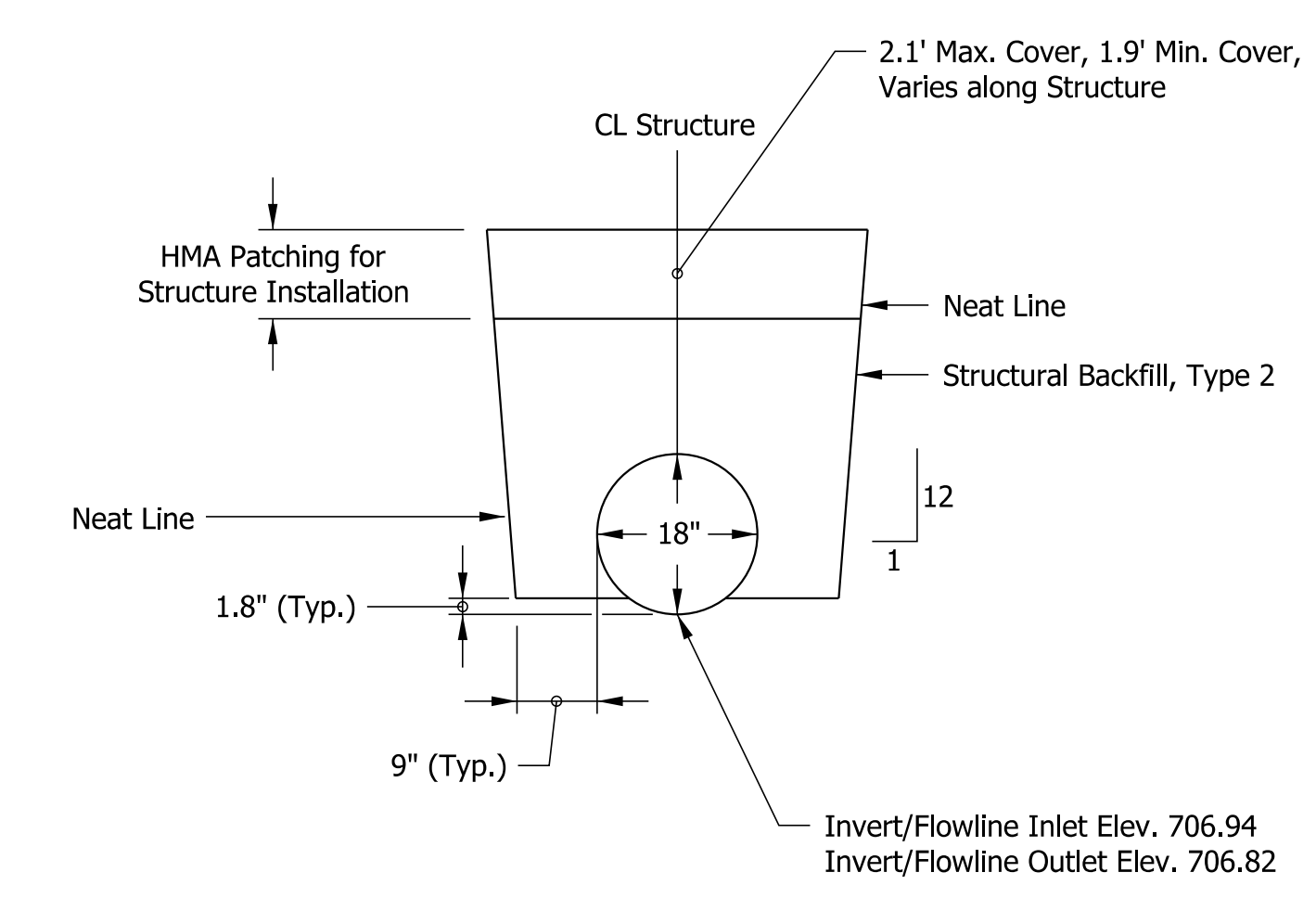
REINFORCED CONCRETE PIPE

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

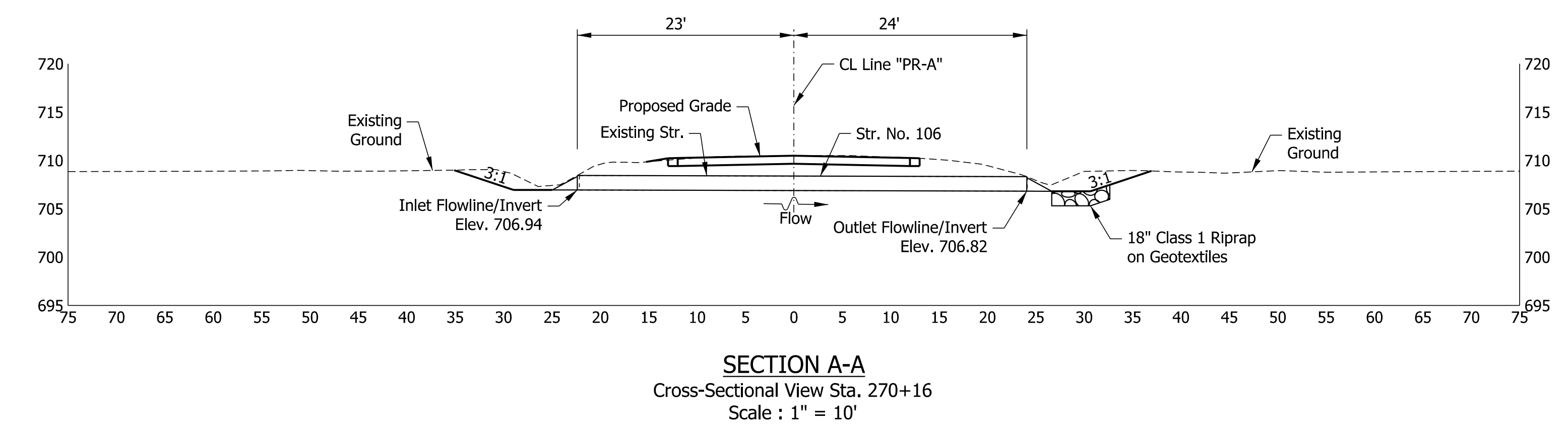
HYDRAULIC DATA

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

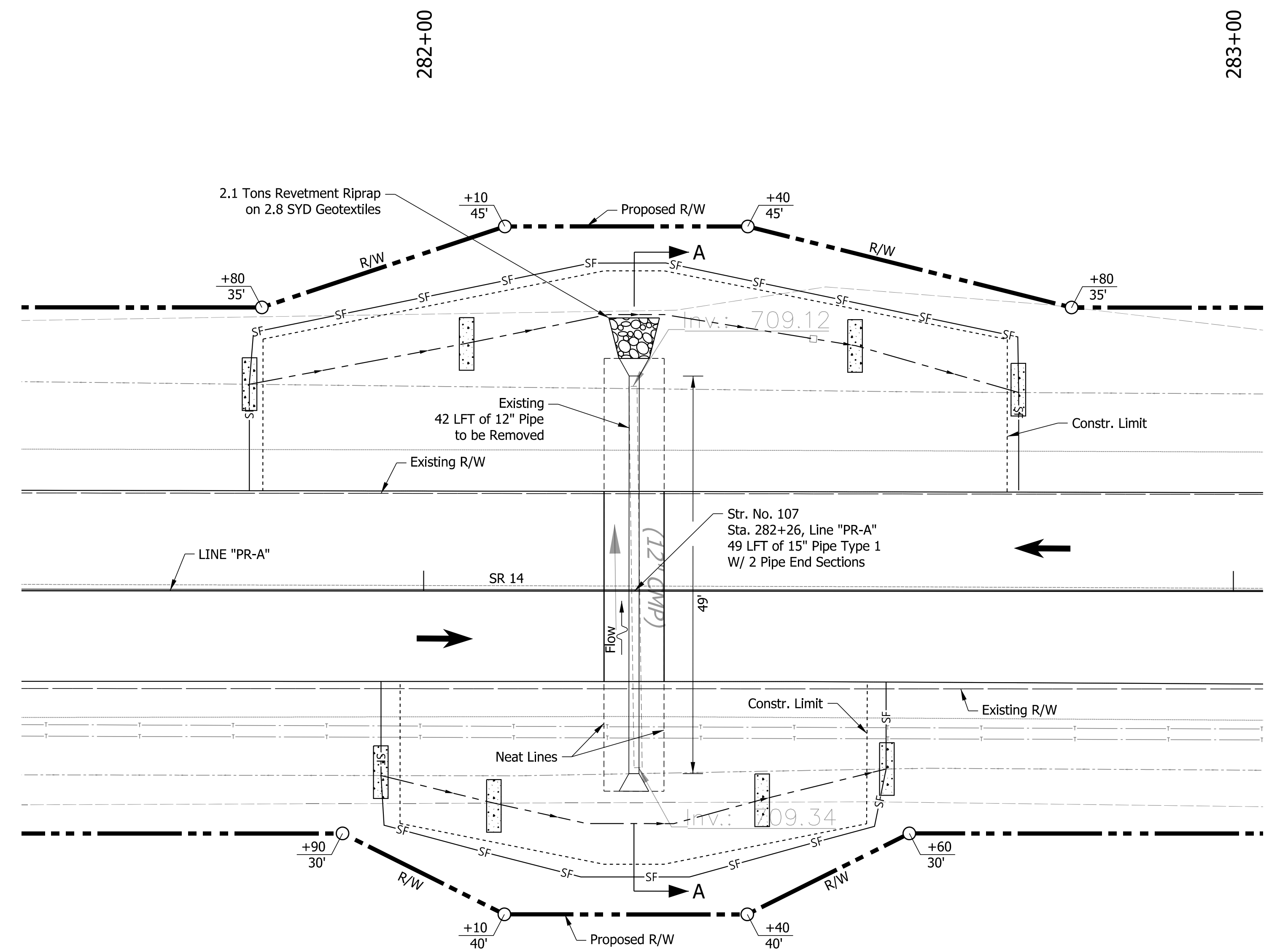
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
 DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 106

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	60 of 125
CONTRACT	PROJECT
RS-41443	1800182

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PLAN VIEW DETAILS
SCALE : 1" = 10'

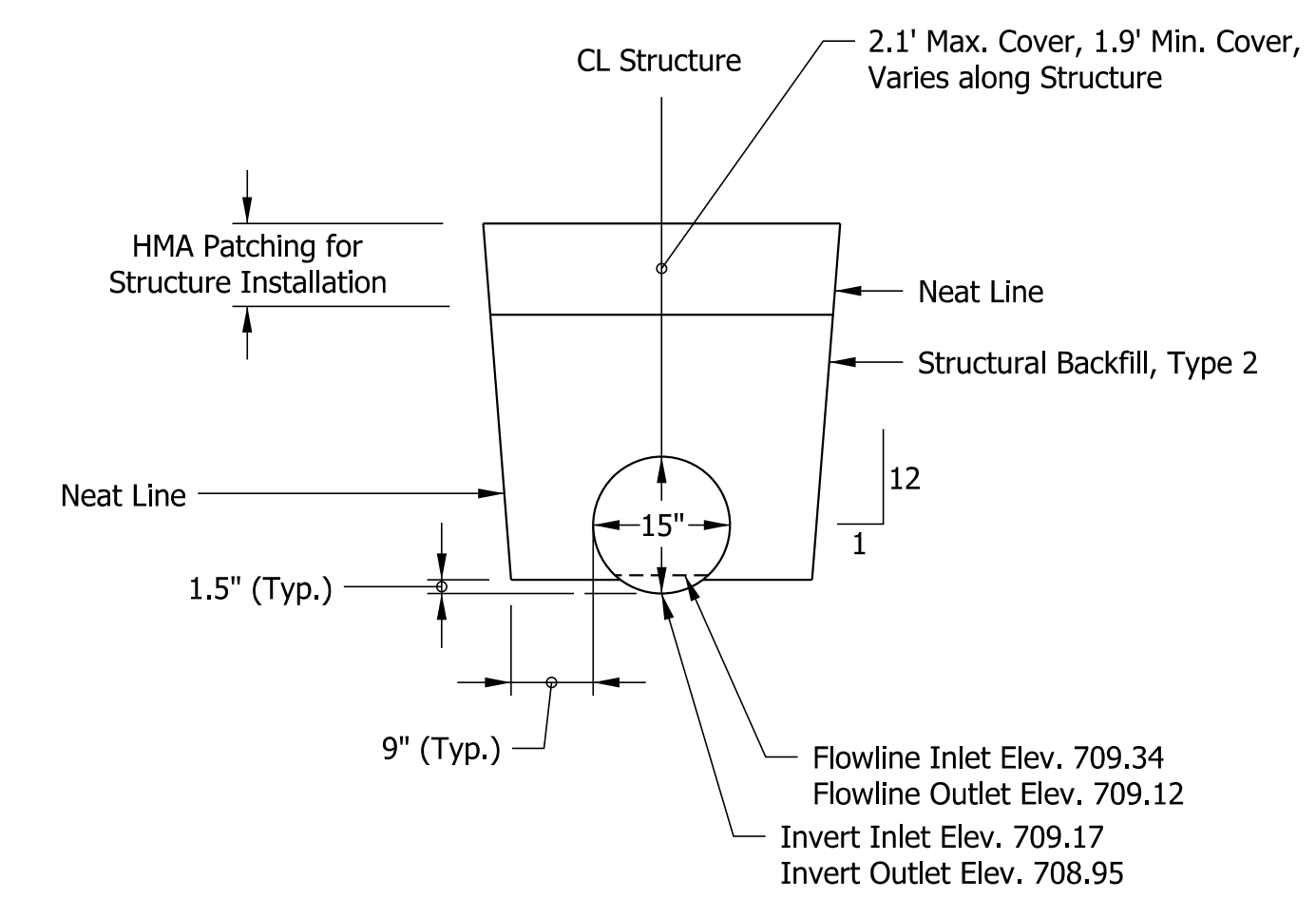
REINFORCED CONCRETE PIPE

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

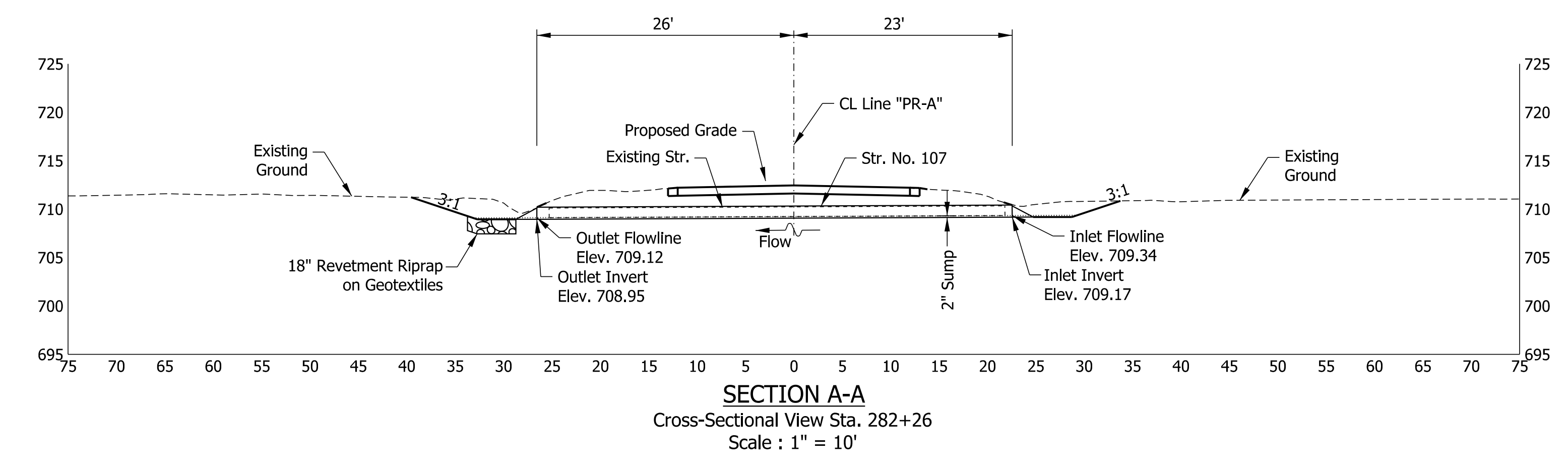
HYDRAULIC DATA

Drainage Area	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'

- Temporary Check Dam
- Silt Fence

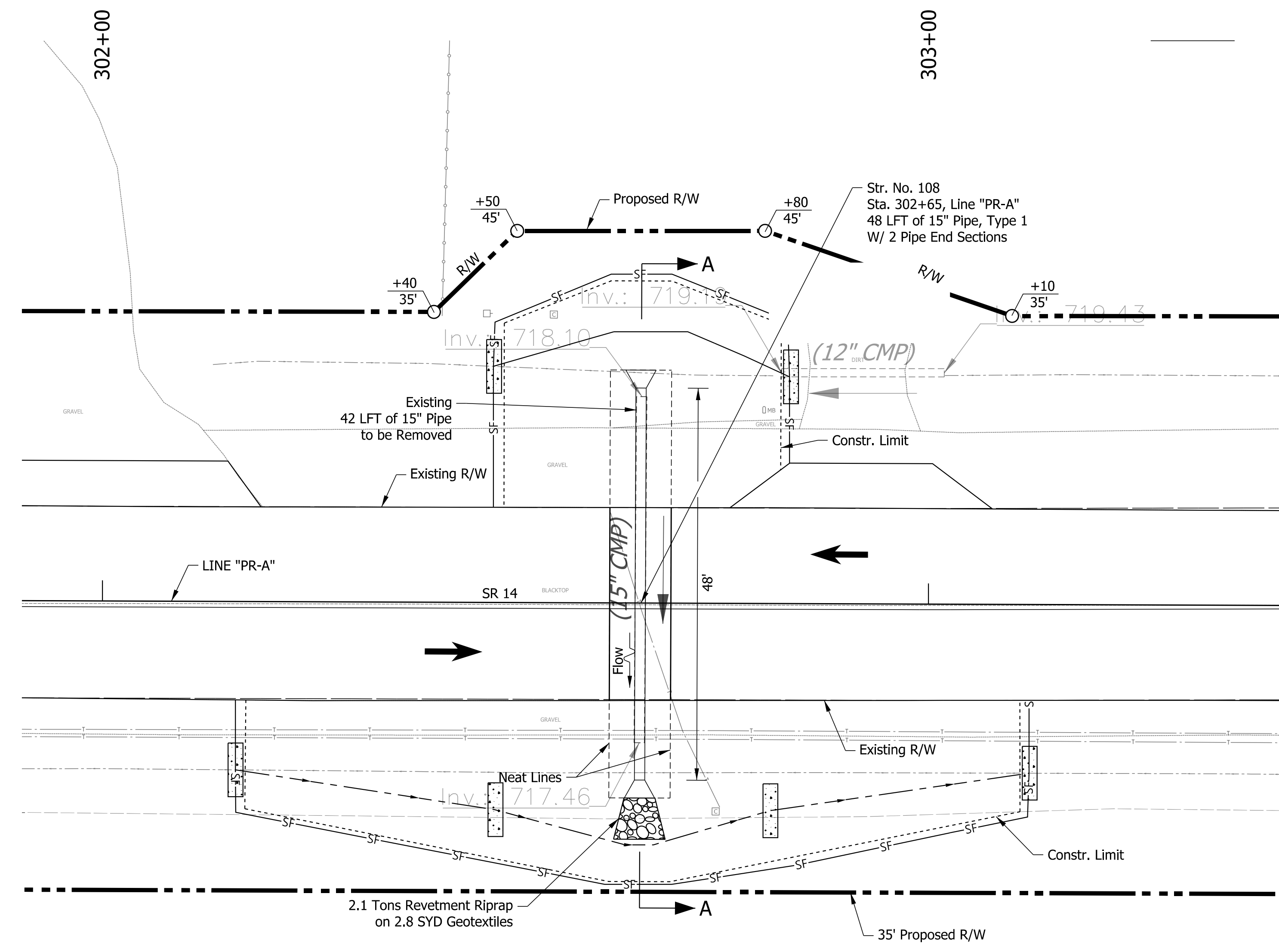
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	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
 DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 107

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	61 of 125
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

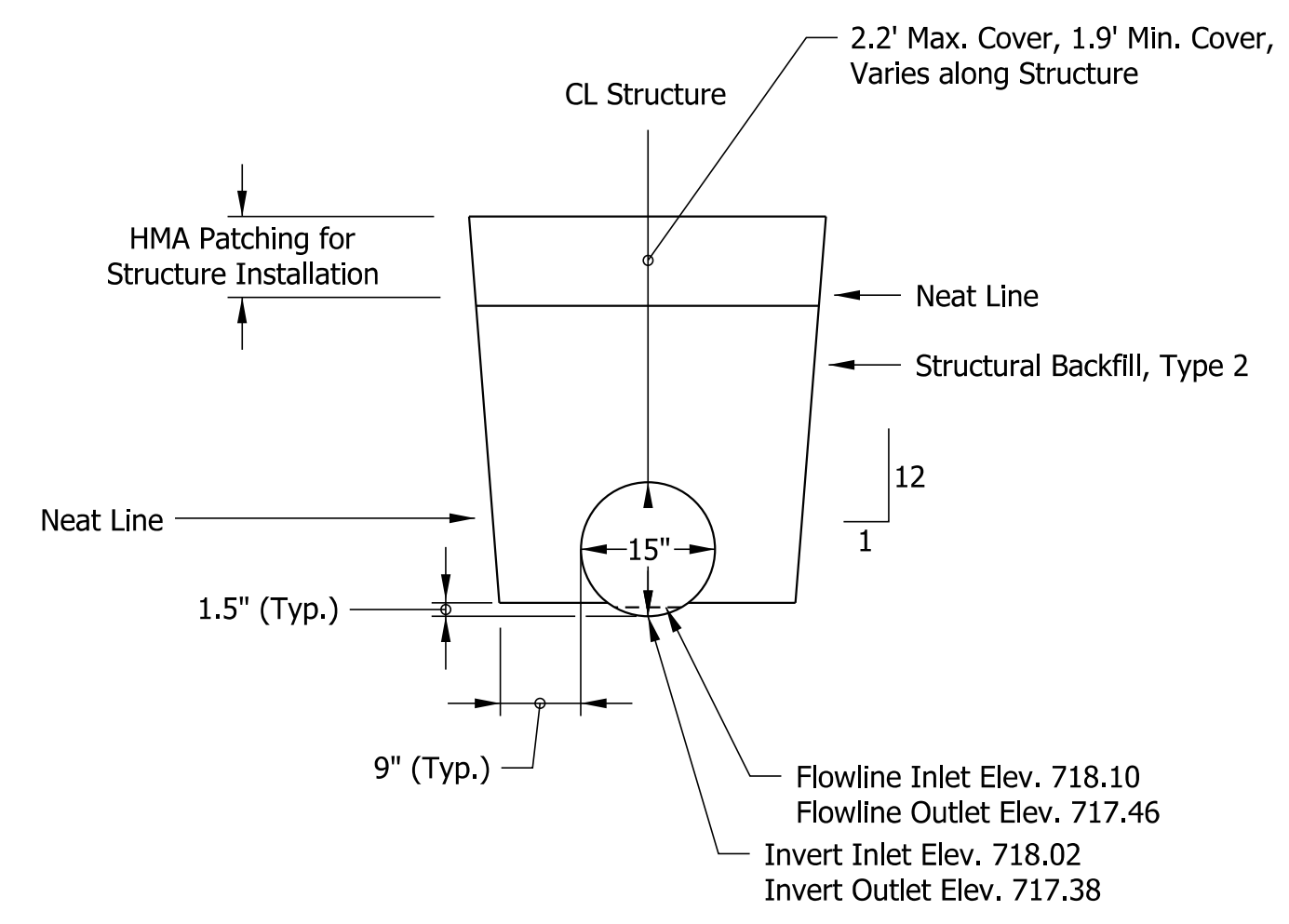
Drainage Area	5.76	Acres
Q100 Discharge	6.72	CFS
Q25 Discharge	5.67	CFS
Q100 Water Surface Elevation (Tailwater)	1.12	Ft
Design Roadway Serviceability Elevation	720.94	Ft

Proposed Structure 15" RCP

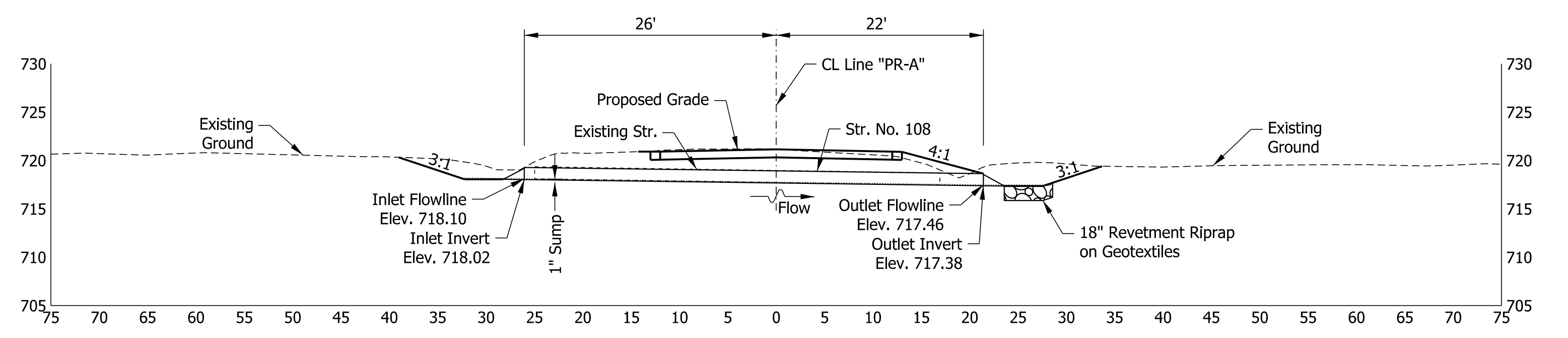
Q100 Proposed Headwater Elevation	720.13	Ft
Q25 Proposed Headwater Elevation	719.73	Ft
Meets Roadway Serviceability (Q25)	Yes	
Proposed Backwater Depth	0.91	Ft
Proposed Culvert Velocity (Q25)	5.01	Ft/s
Proposed Outlet Riprap Size	Revetment	

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



TYPICAL EXCAVATION AND BACKFILL LIMITS
Elevation View, Scale: NTS



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

- Temporary Check Dam
- Silt Fence

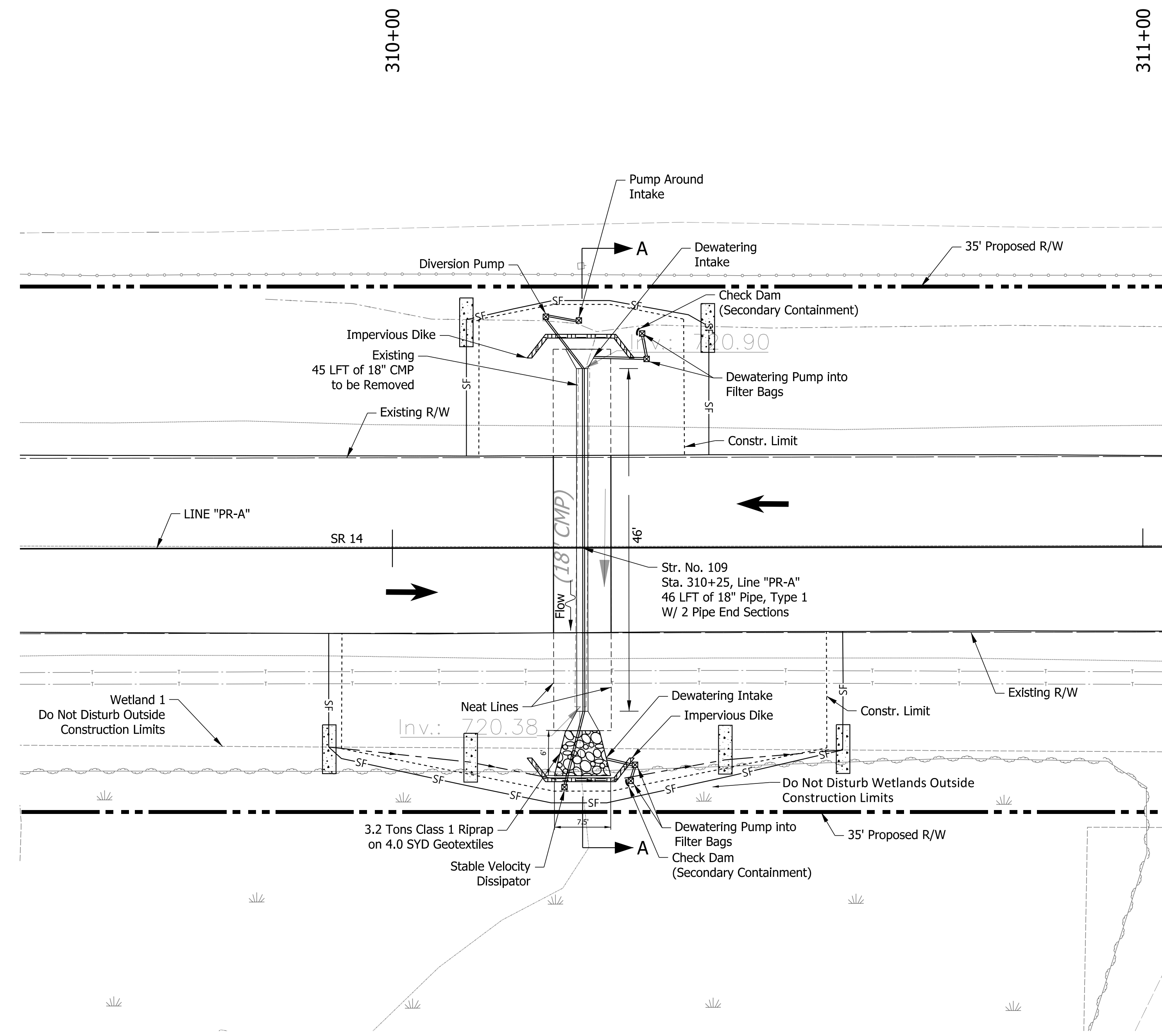
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	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 108

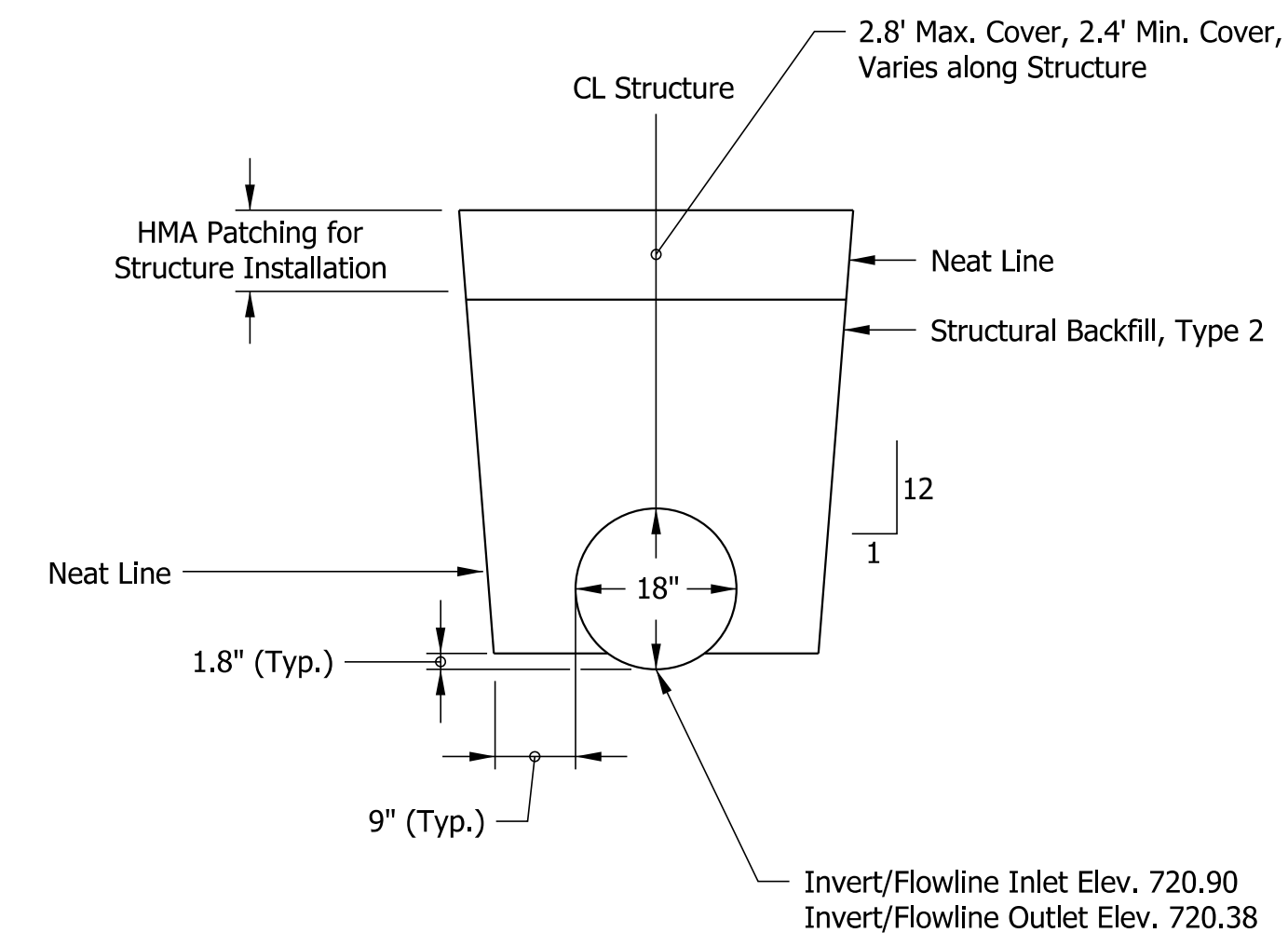
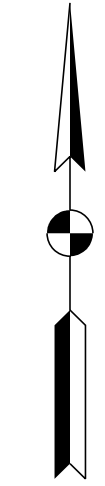
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AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	62 of 125
CONTRACT	PROJECT
RS-41443	1800182

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PLAN VIEW DETAILS
SCALE : 1" = 10'

Note: Re-seed all disturbed areas with Mulched Seeding, Type R, after work is complete. Temporary Seed and Mulch shall be used until permanent seeding is complete.



TYPICAL EXCAVATION AND BACKFILL LIMITS
Elevation View, Scale: NTS

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

HYDRAULIC DATA

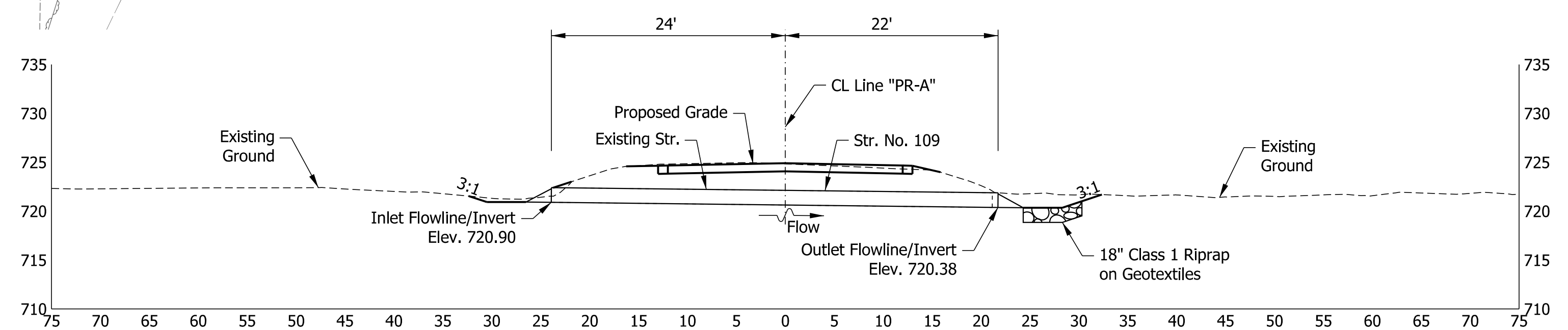
Drainage Area	7.57	Acres
Q100 Discharge	11.25	CFS
Q25 Discharge	9.47	CFS
Q100 Water Surface Elevation (Tailwater)	1.37	Ft
Design Roadway Serviceability Elevation	724.69	Ft

Proposed Structure 18" RCP

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	

Existing Structure 18" CMP

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



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

- Temporary Check Dam
- Silt Fence

For Dewatering and Pump Around Details, see Str. 110 Structure Detail sheet.

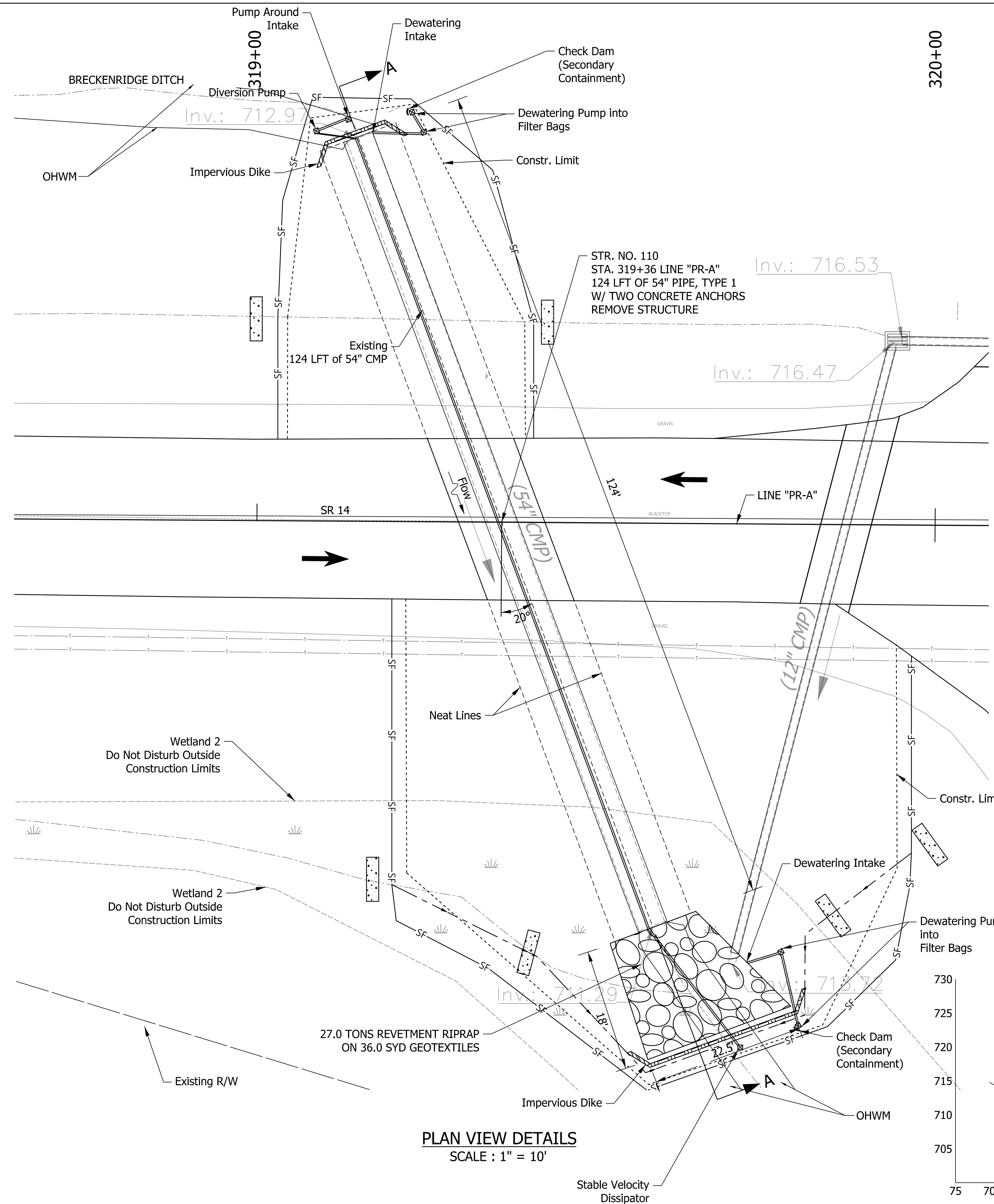
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 109

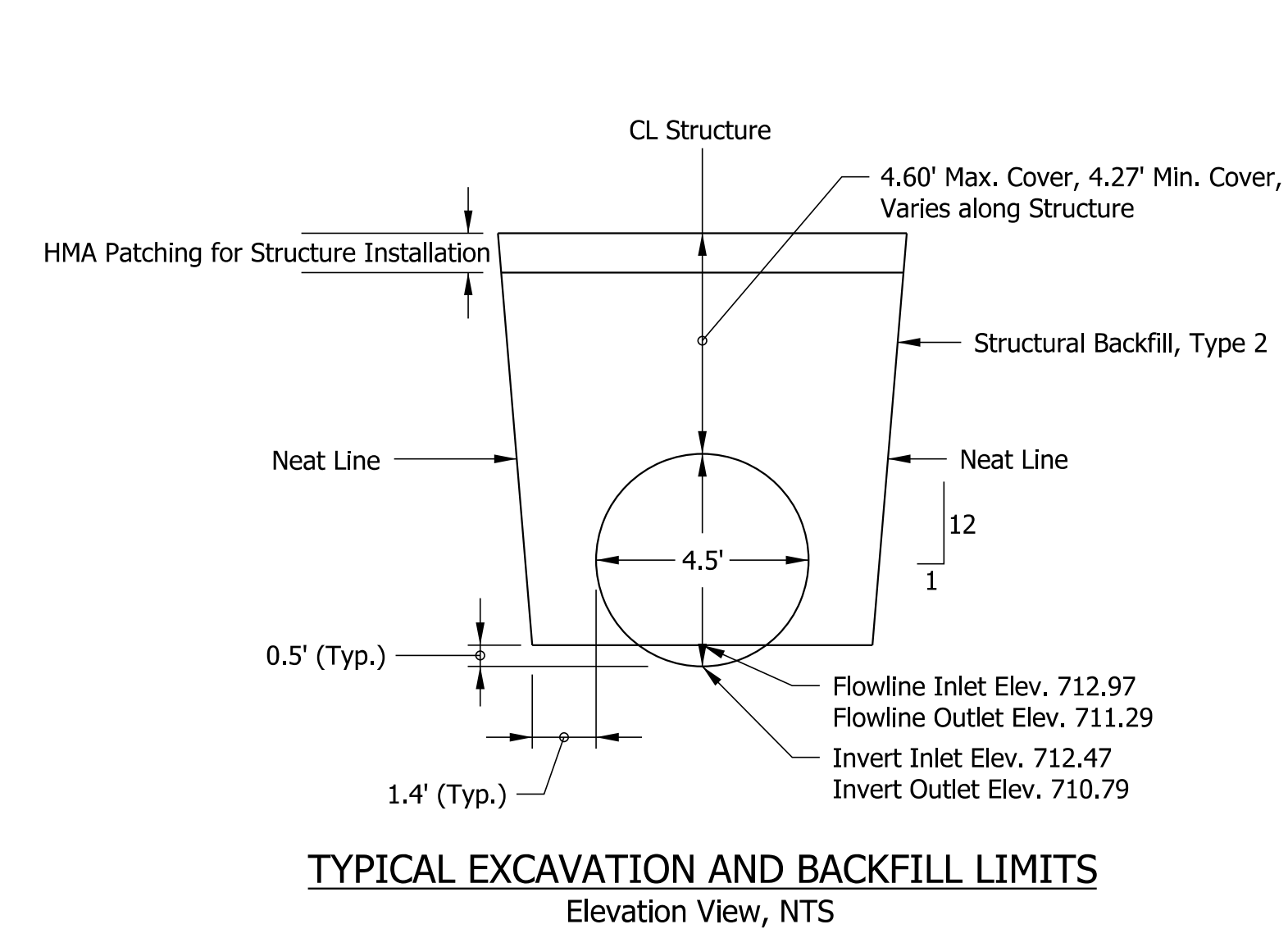
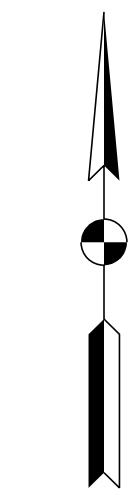
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AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	63 of 125
	PROJECT
	1800182

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Note: Re-seed all disturbed areas with Mulched Seeding, Type R, after work is complete. Temporary Seed and Mulch shall be used until permanent seeding is complete.

- Temporary Check Dam
- Silt Fence

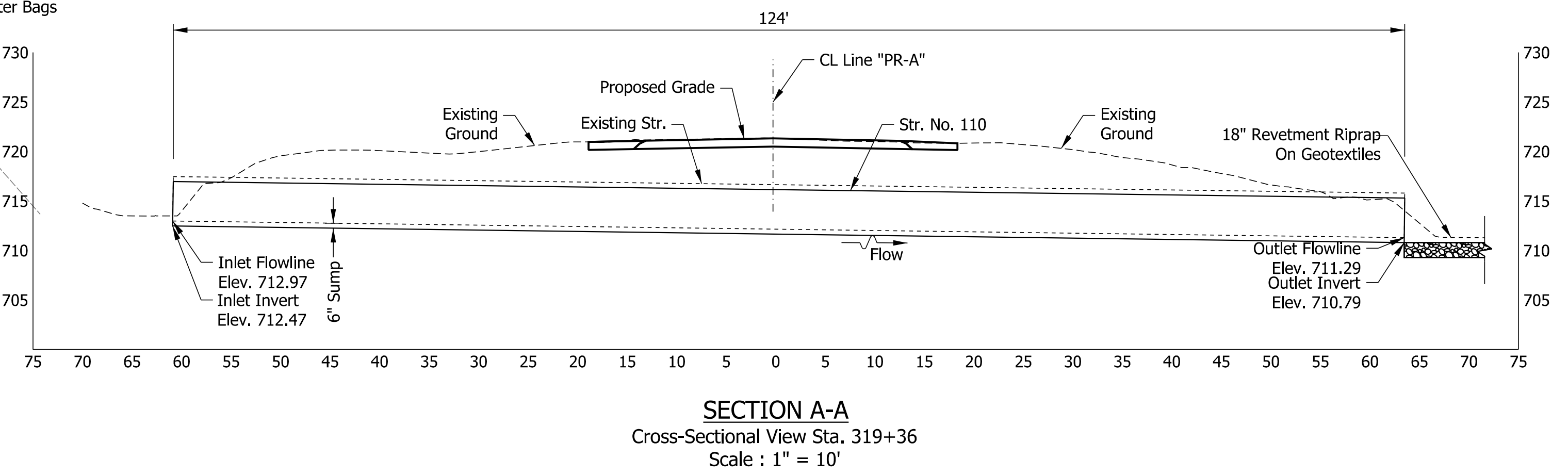
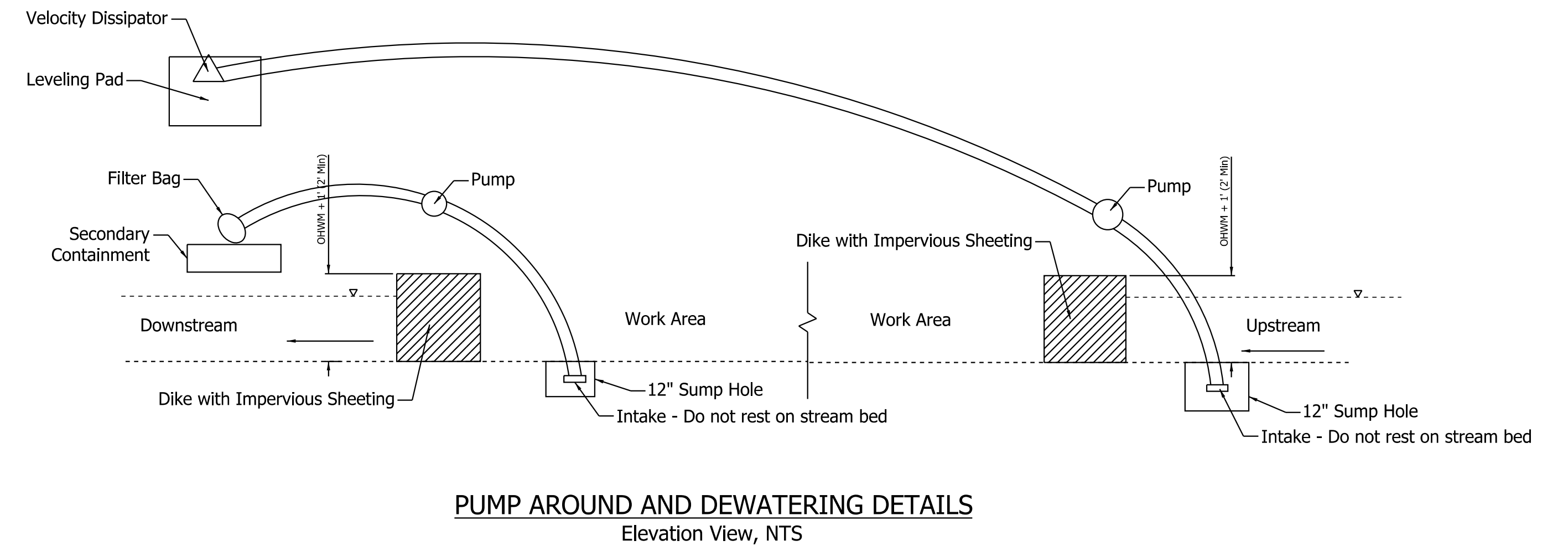


SMOOTH CIRCULAR PIPE

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



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

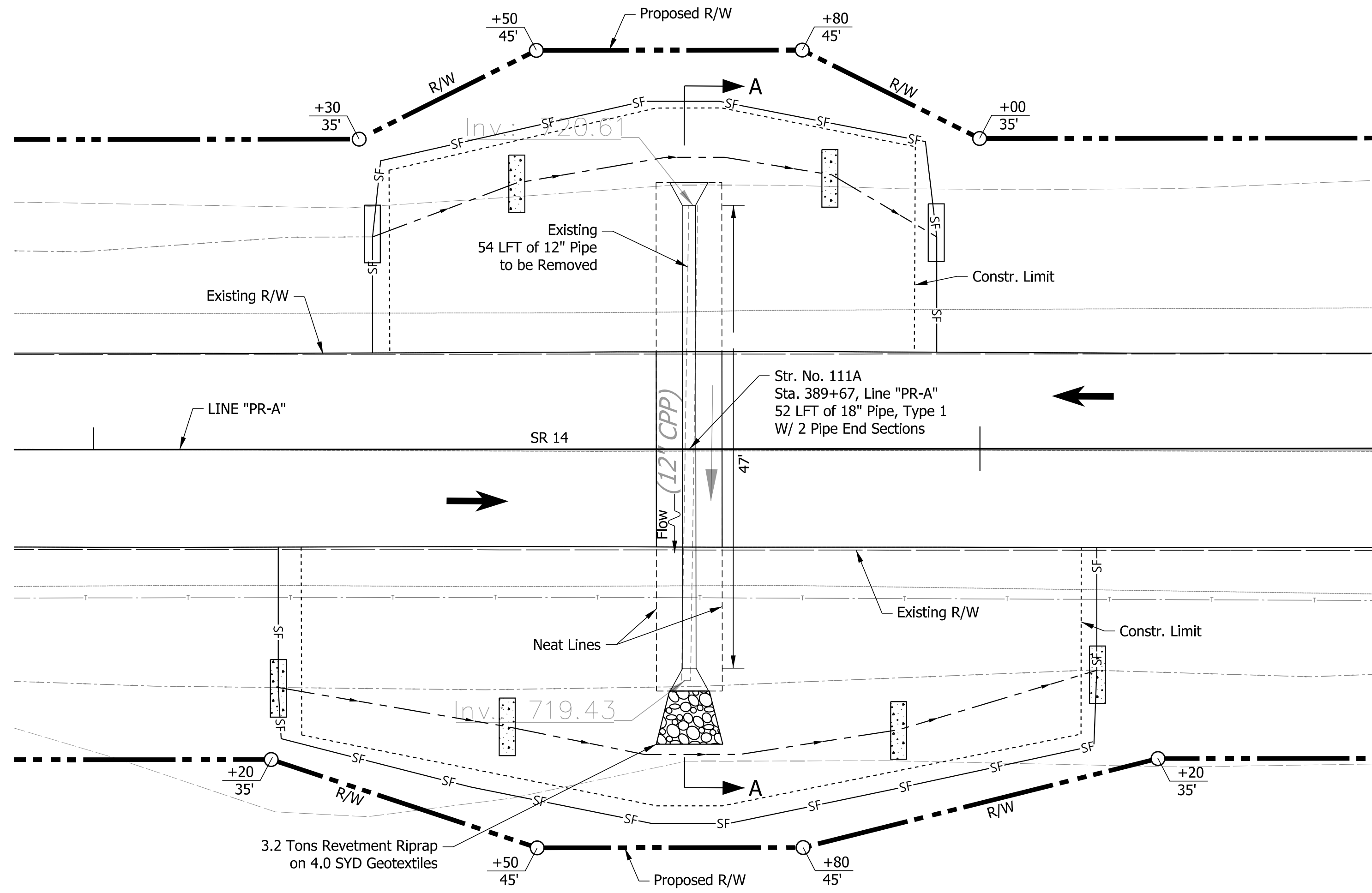
INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 110

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	64 of 125
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

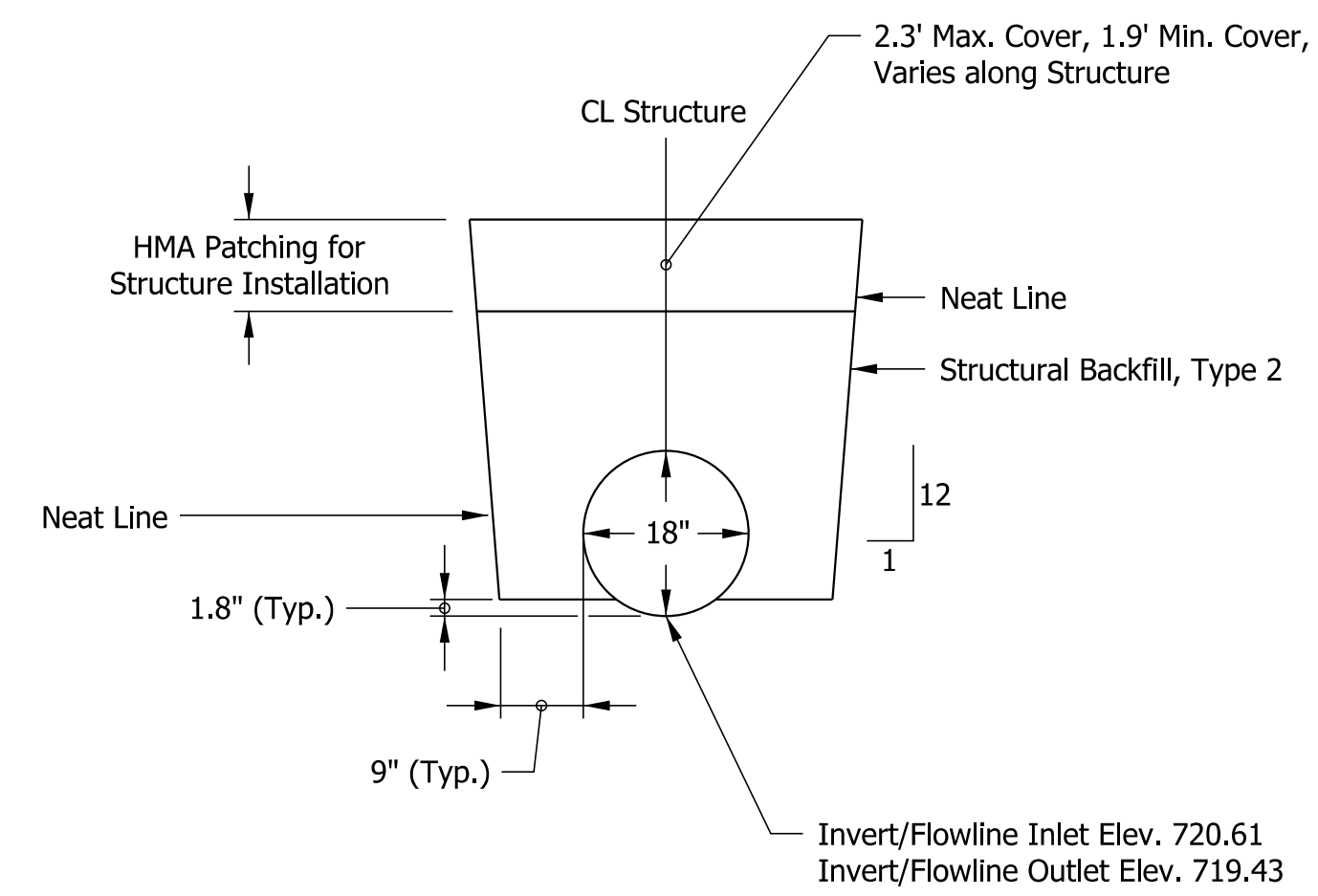
Proposed Structure 18" RCP

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	

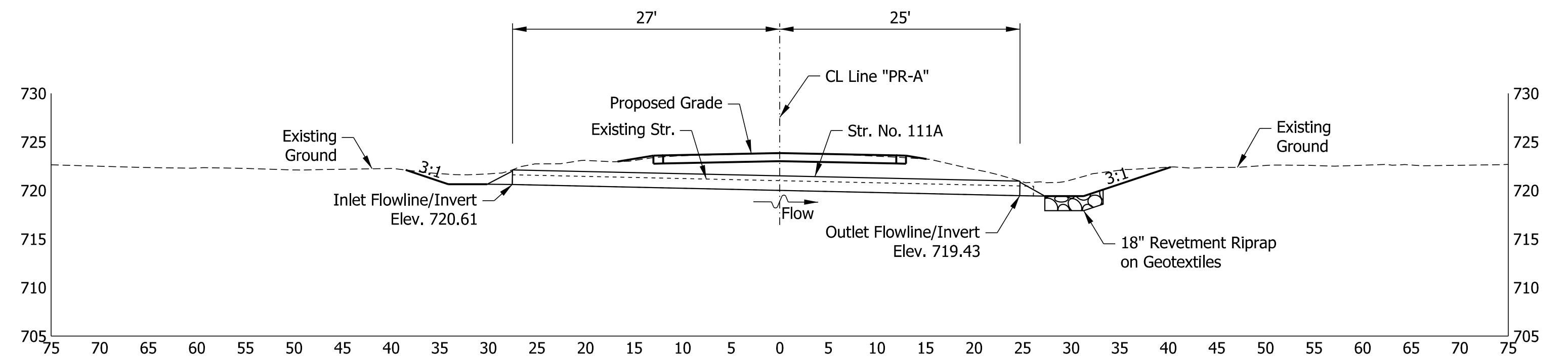
Existing Structure 12" CPP

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'

Plot: p:\v\SSC-P\W\T\h\lochner.com\Lochner-SC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Str\Structure Details_10_01.dgn 9/2/2021 3:39:45 PM

- 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

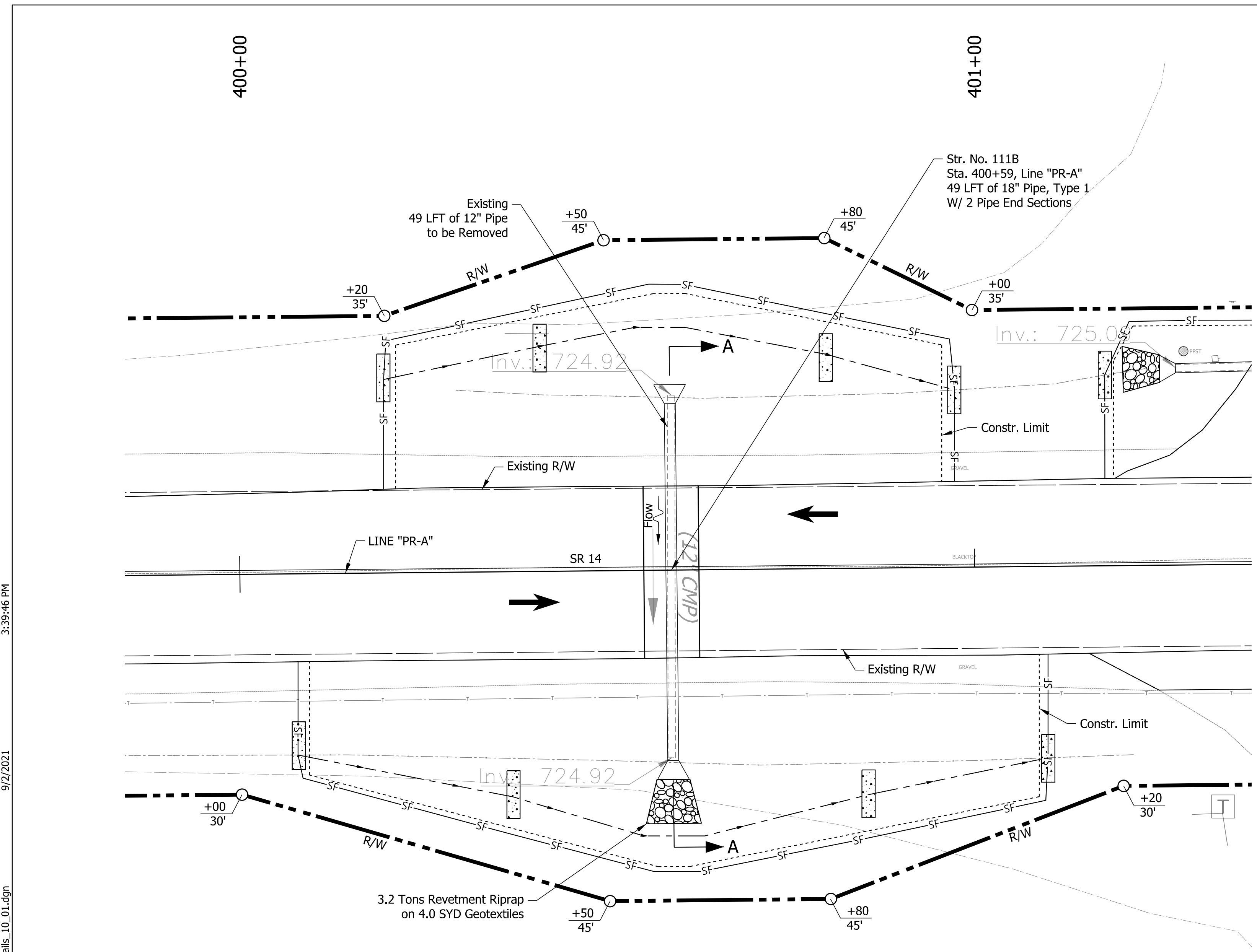
STRUCTURE DETAILS STR. NO. 111A

SCALE	AS SHOWN	BRIDGE FILE	N/A
		DESIGNATION	1800182
		SHEETS	65 of 125
CONTRACT	RS-41443	PROJECT	1800182

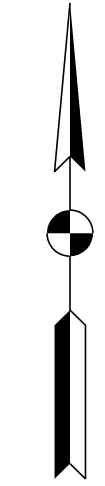
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9/2/2021

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PLAN VIEW DETAILS
SCALE : 1" = 10'



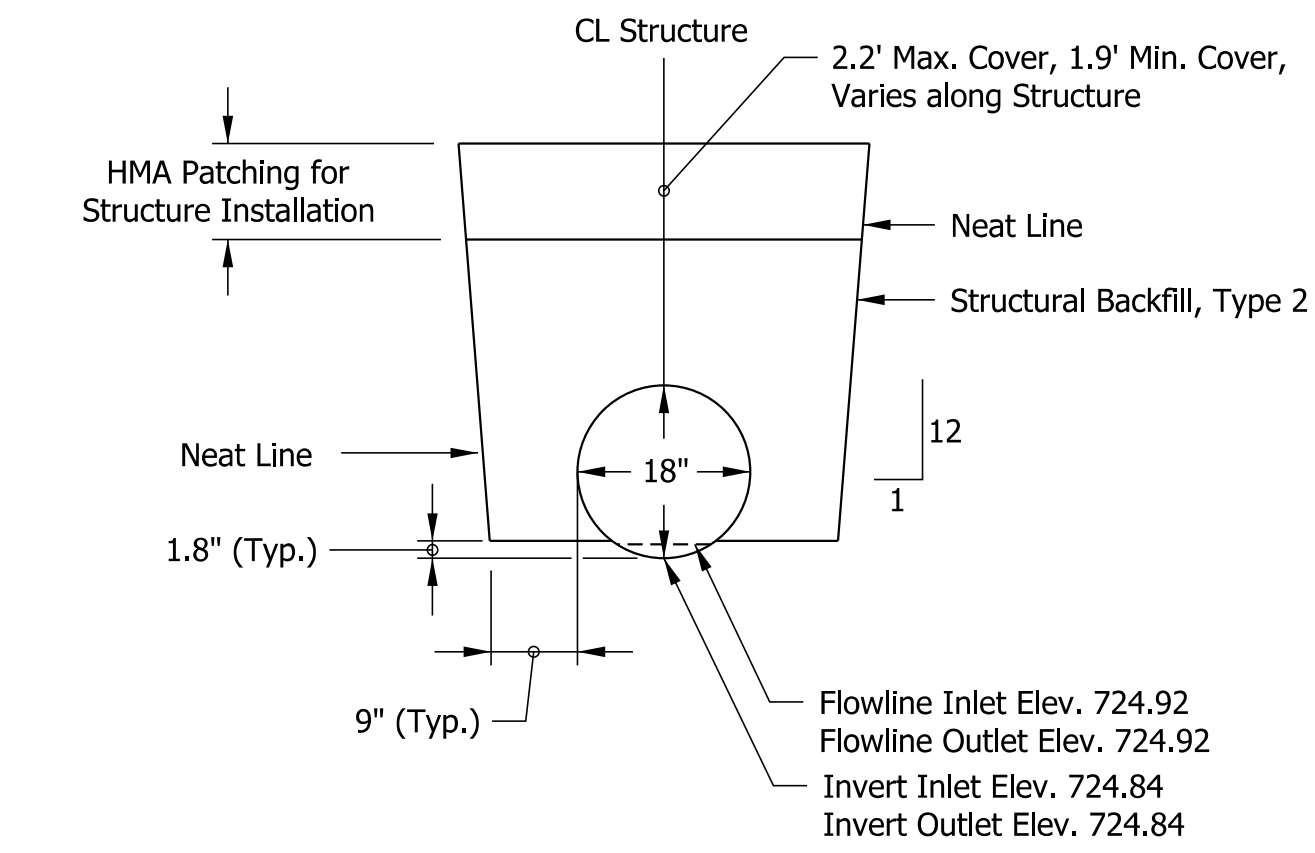
REINFORCED CONCRETE PIPE

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

HYDRAULIC DATA

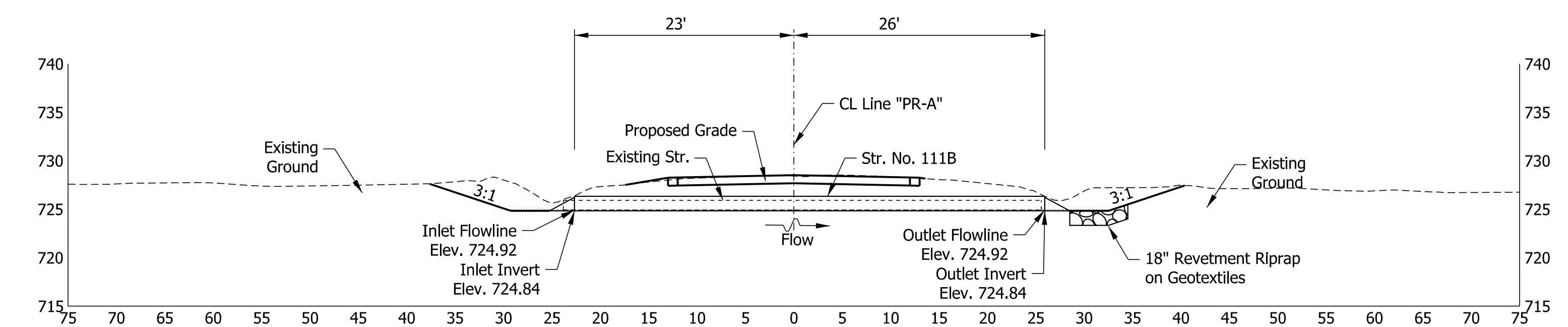
Drainage Area	11.18	Acres
Q100 Discharge	12.29	CFS
Q25 Discharge	10.07	CFS
Q100 Water Surface Elevation (Tailwater)	1.30	Ft
Design Roadway Serviceability Elevation	728.28	Ft
Proposed Structure 18" RCP		
Q100 Proposed Headwater Elevation	728.46	Ft
Q Prior to Overtopping	12.39	CFS
Q25 Proposed Headwater 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

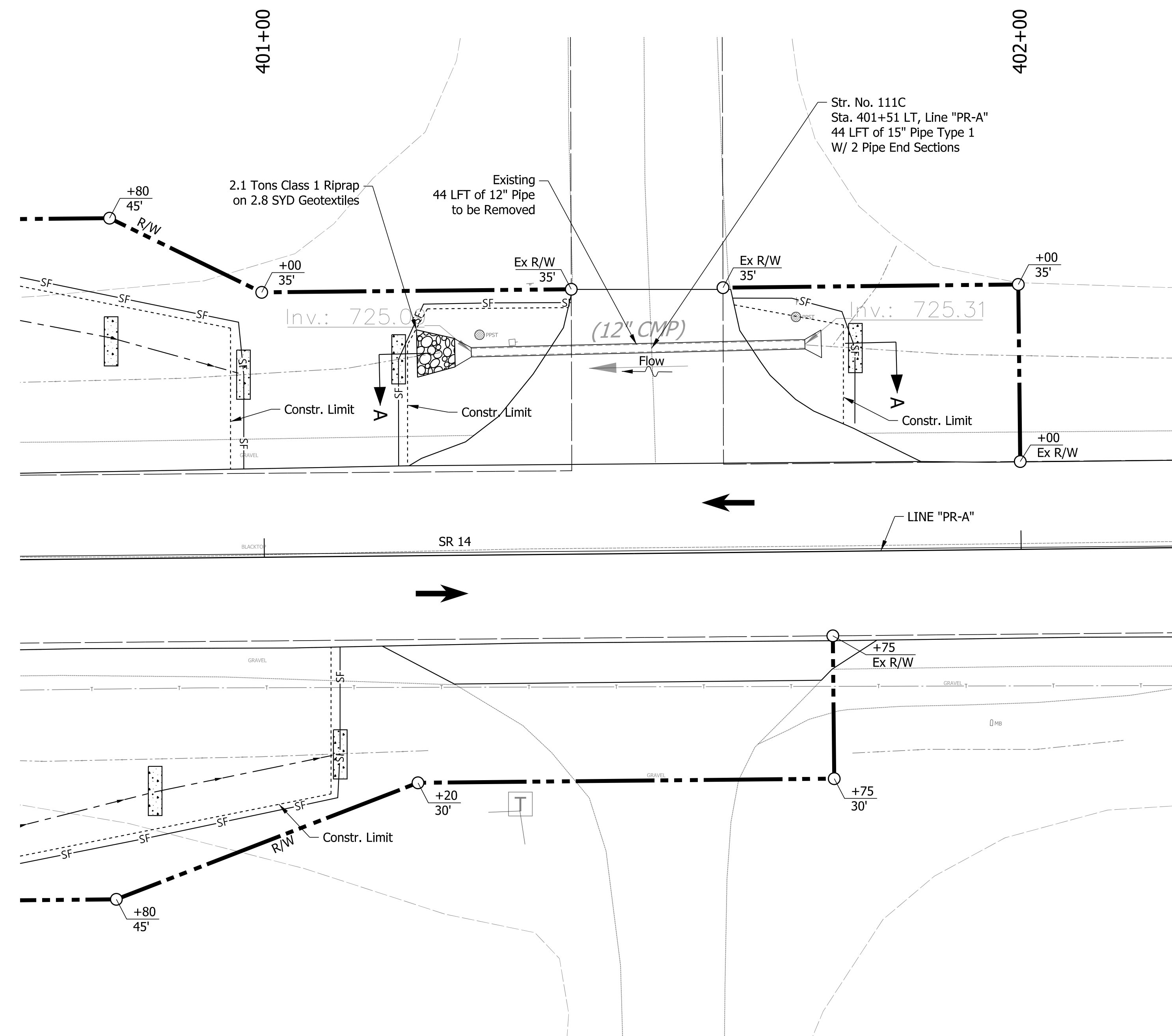
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

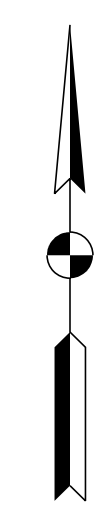
STRUCTURE DETAILS
STR. NO. 111B

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	66 of 125
CONTRACT	PROJECT
RS-41443	1800182

9/2/2021 3:39:47 PM
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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

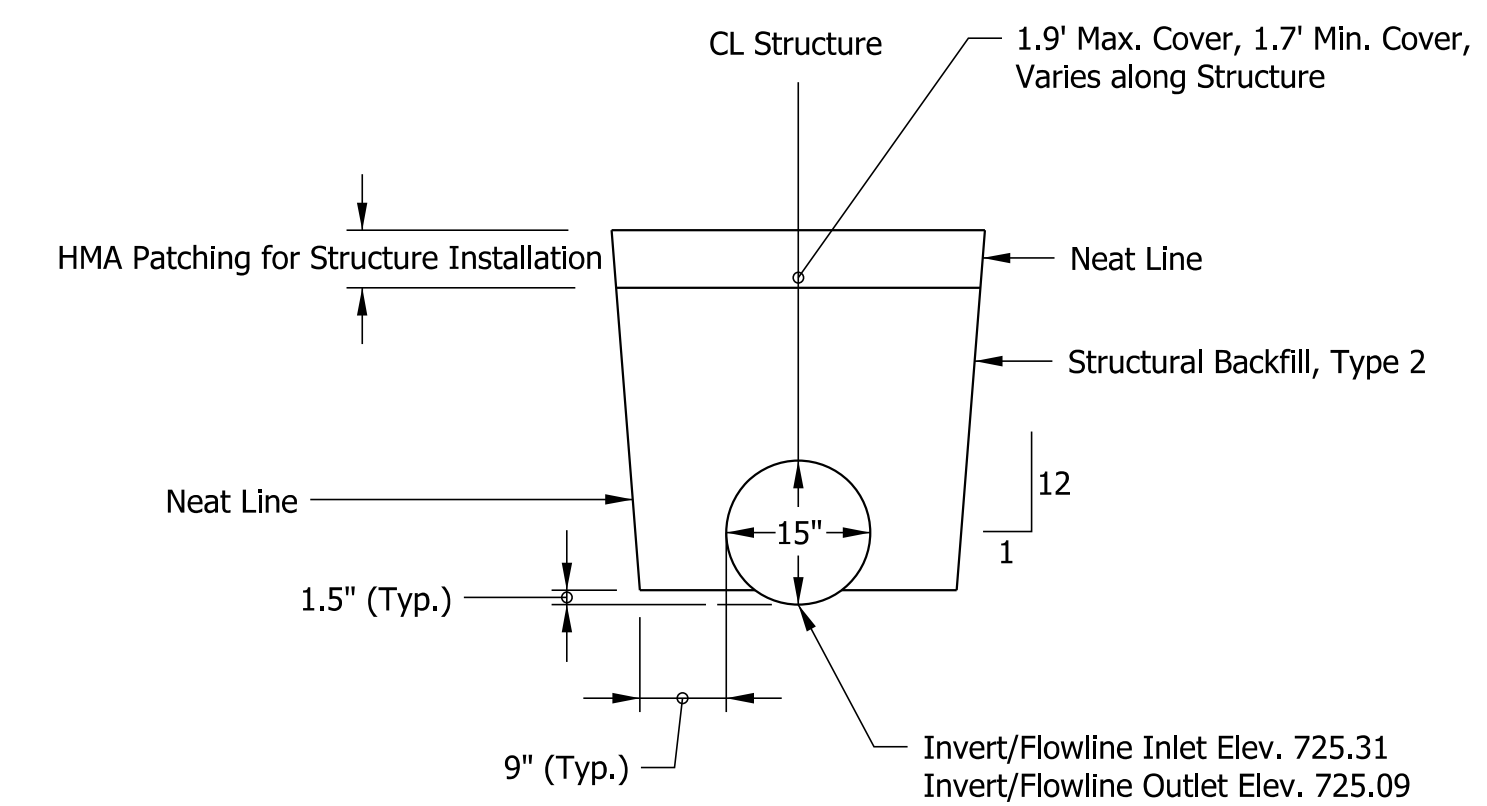
Proposed Structure 15" RCP

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	

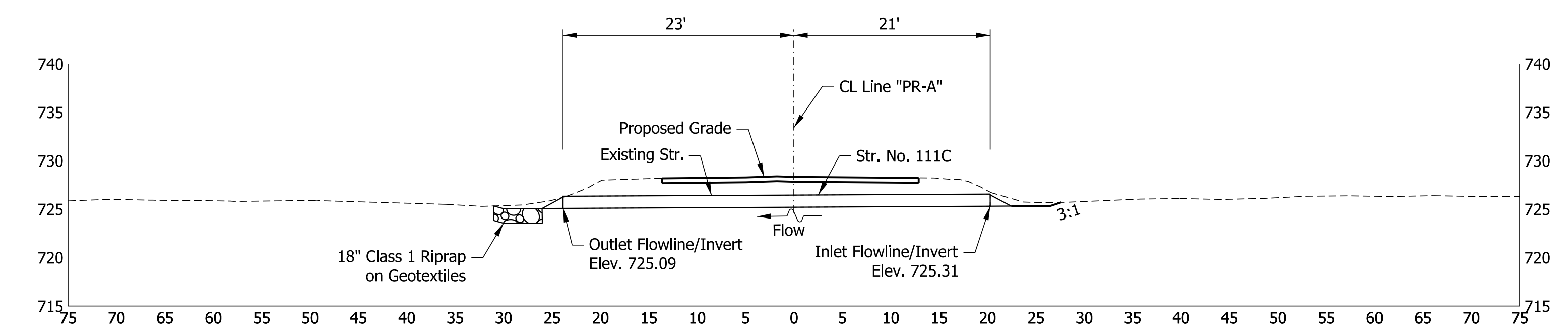
Existing Structure 12" CMP

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

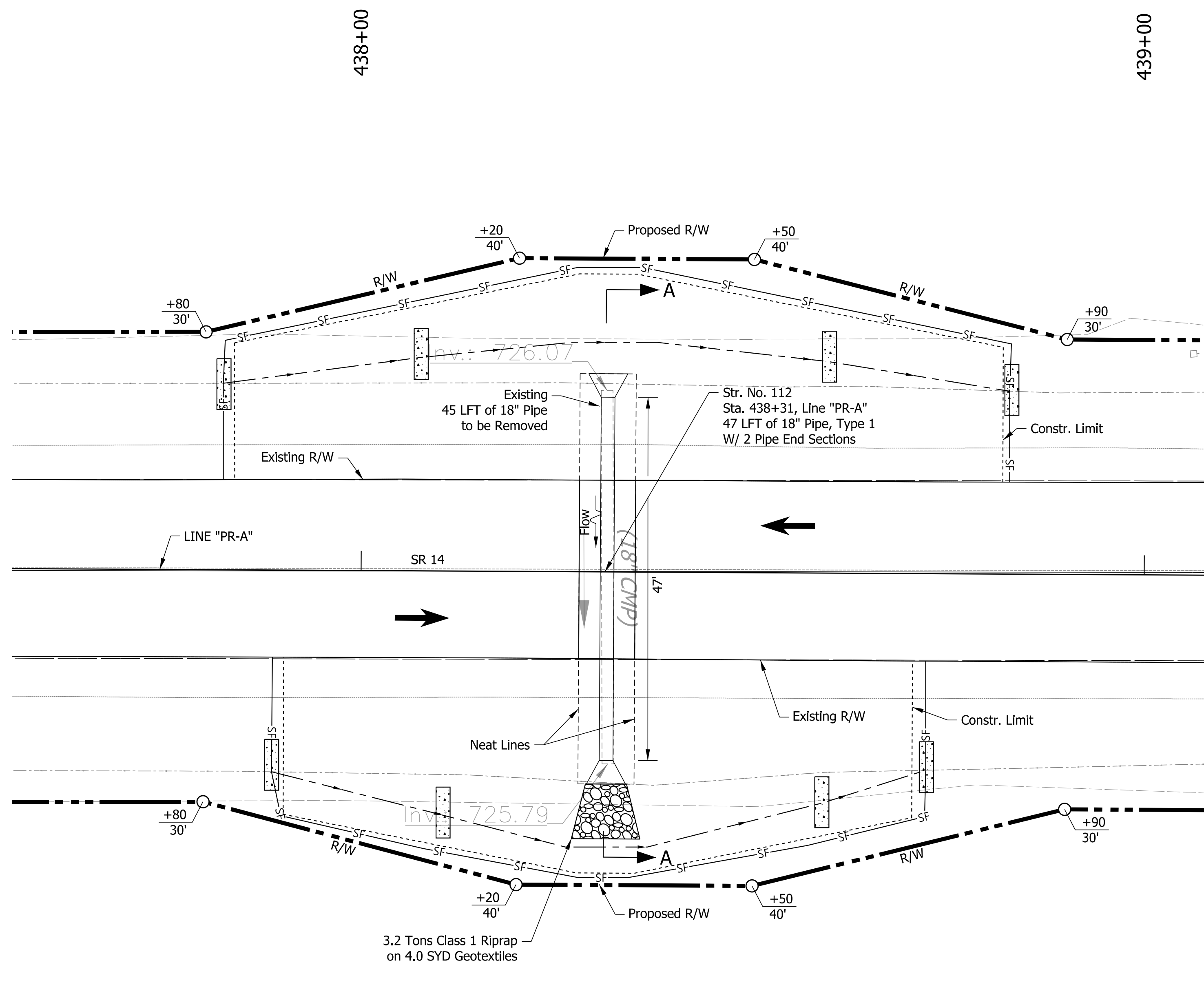
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 111C

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	67 of 125
CONTRACT	PROJECT
RS-41443	1800182

9/7/2021 3:39:48 PM
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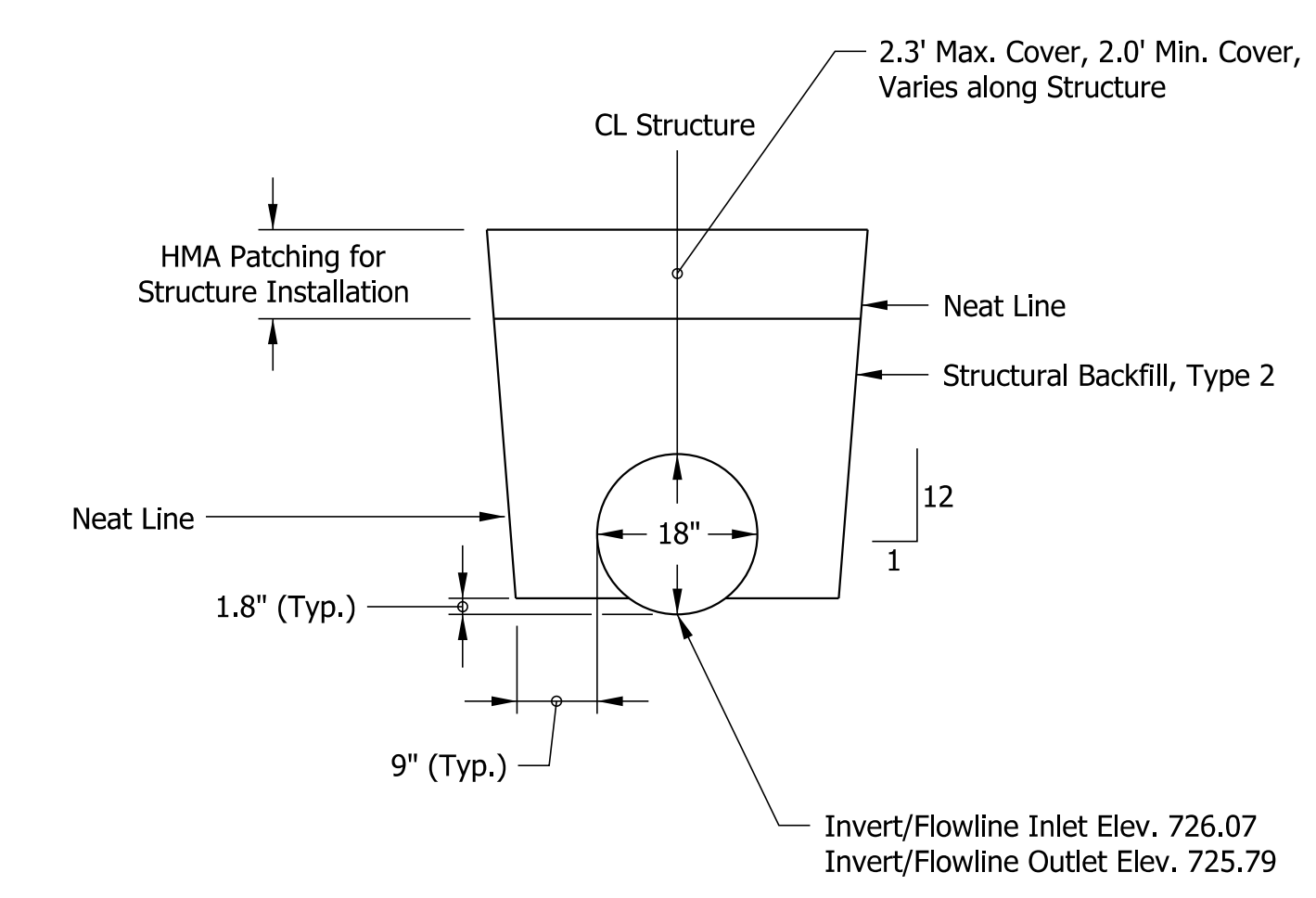


PLAN VIEW DETAILS
SCALE: 1" = 10'

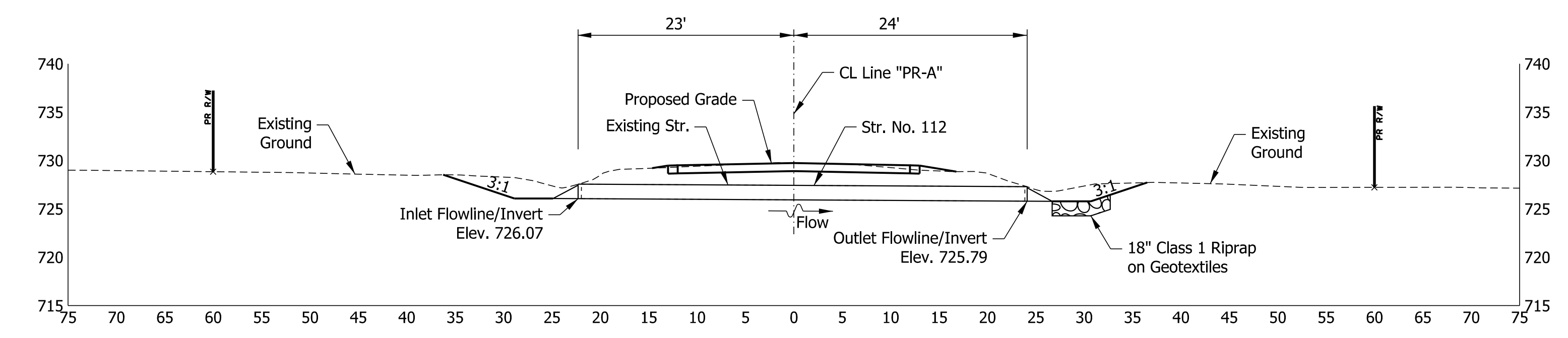
REINFORCED CONCRETE PIPE
 SPAN: 18", RISE: 18"
 SKEW: 0°, LINE "PR-A"
 SR 14 OVER UNP
 PULASKI COUNTY, INDIANA
HYDRAULIC DATA

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

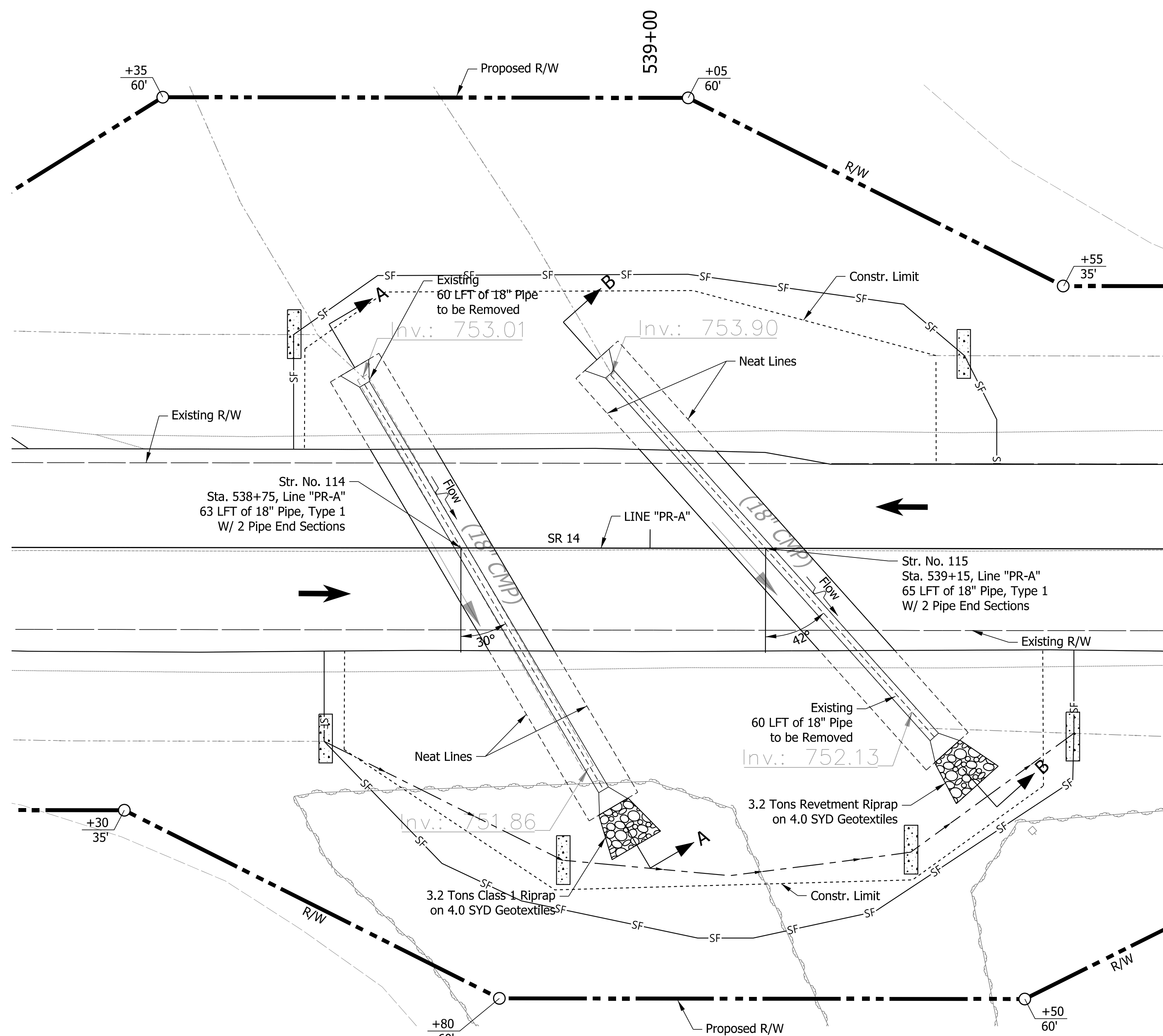
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED:	RAR	03/2021	DRAWN: RLK 03/2021
CHECKED:	AH	03/2021	CHECKED: AH 03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

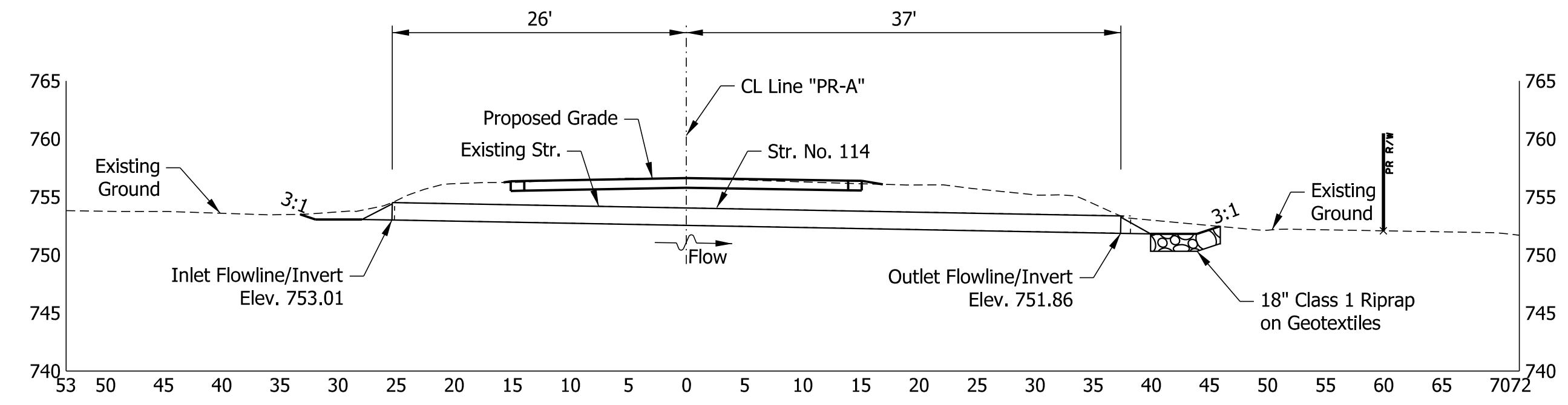
STRUCTURE DETAILS
STR. NO. 112

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	68 of 125
CONTRACT	PROJECT
RS-41443	1800182

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 Plot: pw:\VSSC-PW\INT.h\lochner.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

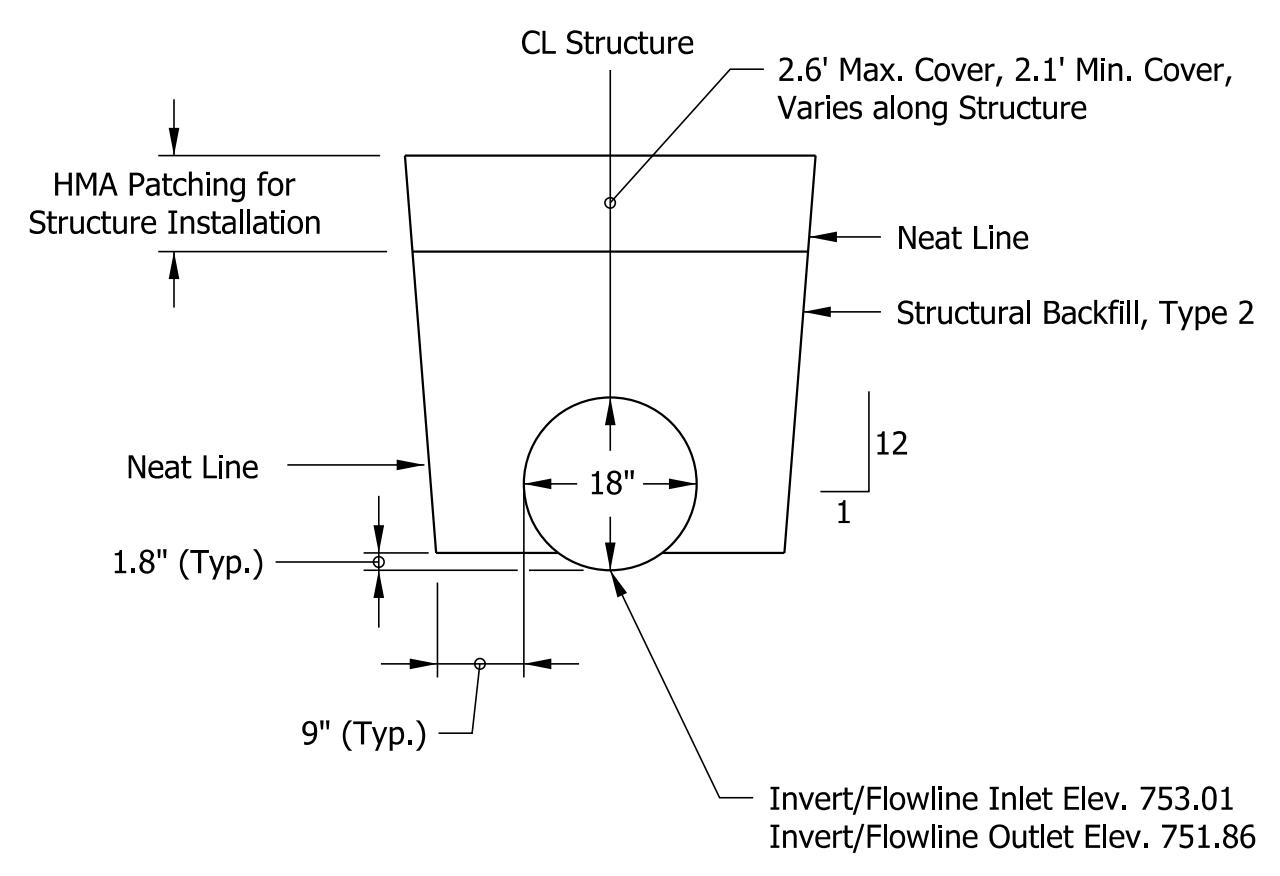
Drainage Area	0.49	Acres
Q100 Discharge	3.72	CFS
Q25 Discharge	3.12	CFS
Q100 Water Surface Elevation (Tailwater)	1.39	Ft
Design Roadway Serviceability Elevation	756.53	Ft
Proposed Structure 18" RCP		
Q100 Proposed Headwater Elevation	754.08	Ft
Q25 Proposed Headwater Elevation	753.97	Ft
Meets Roadway 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)

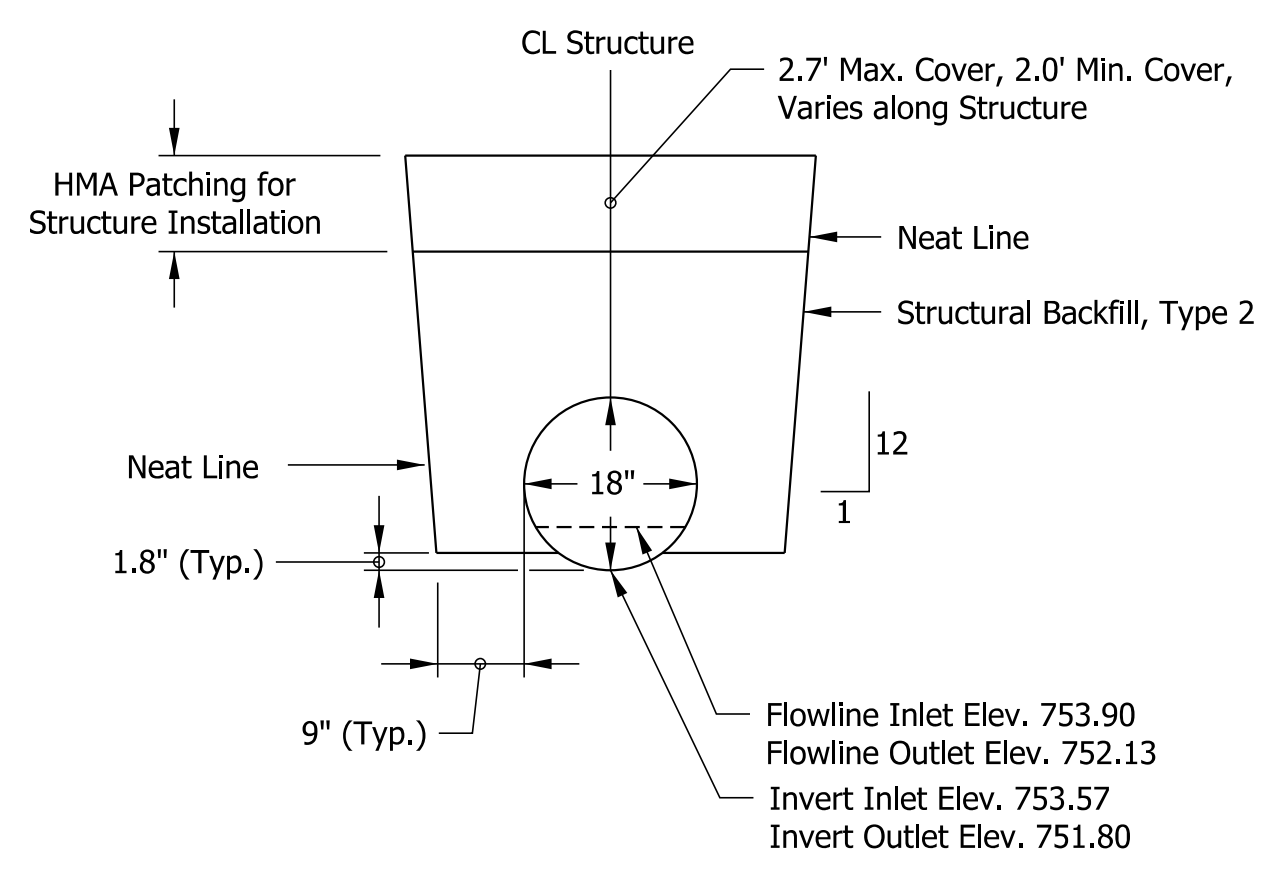
SPAN: 18", RISE: 18"
 SKEW: 42°, LINE "PR-A"
 SR 14 OVER UNT
 FULTON COUNTY, INDIANA

HYDRAULIC DATA

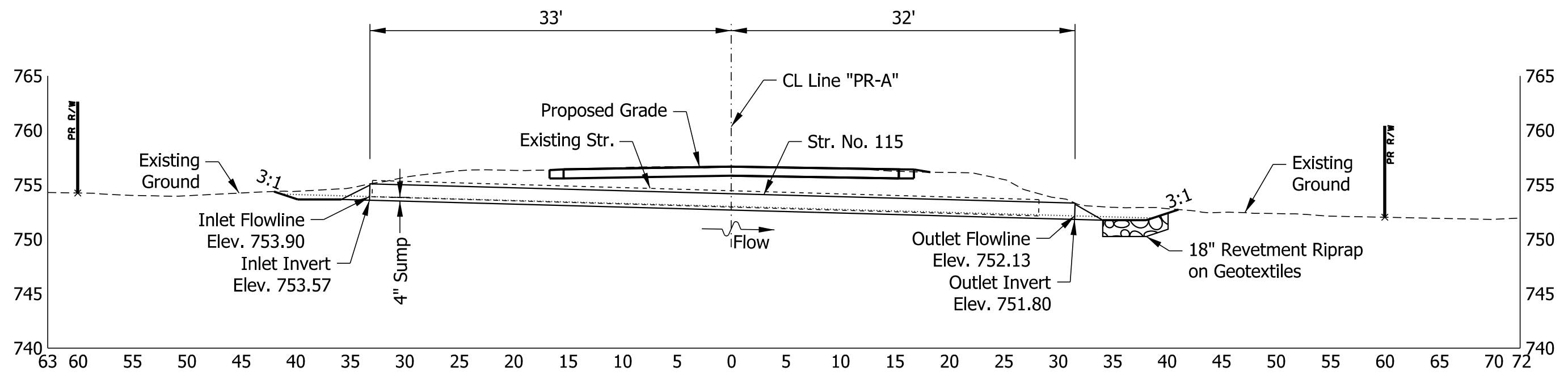
Drainage Area	0.36	Acres
Q100 Discharge	1.47	CFS
Q25 Discharge	1.23	CFS
Q100 Water Surface Elevation (Tailwater)	1.37	Ft
Design Roadway Serviceability Elevation	756.53	Ft
Proposed Structure 18" RCP		
Q100 Proposed Headwater Elevation	754.40	Ft
Q25 Proposed Headwater Elevation	754.35	Ft
Meets Roadway 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'

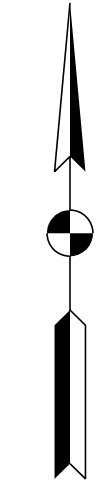
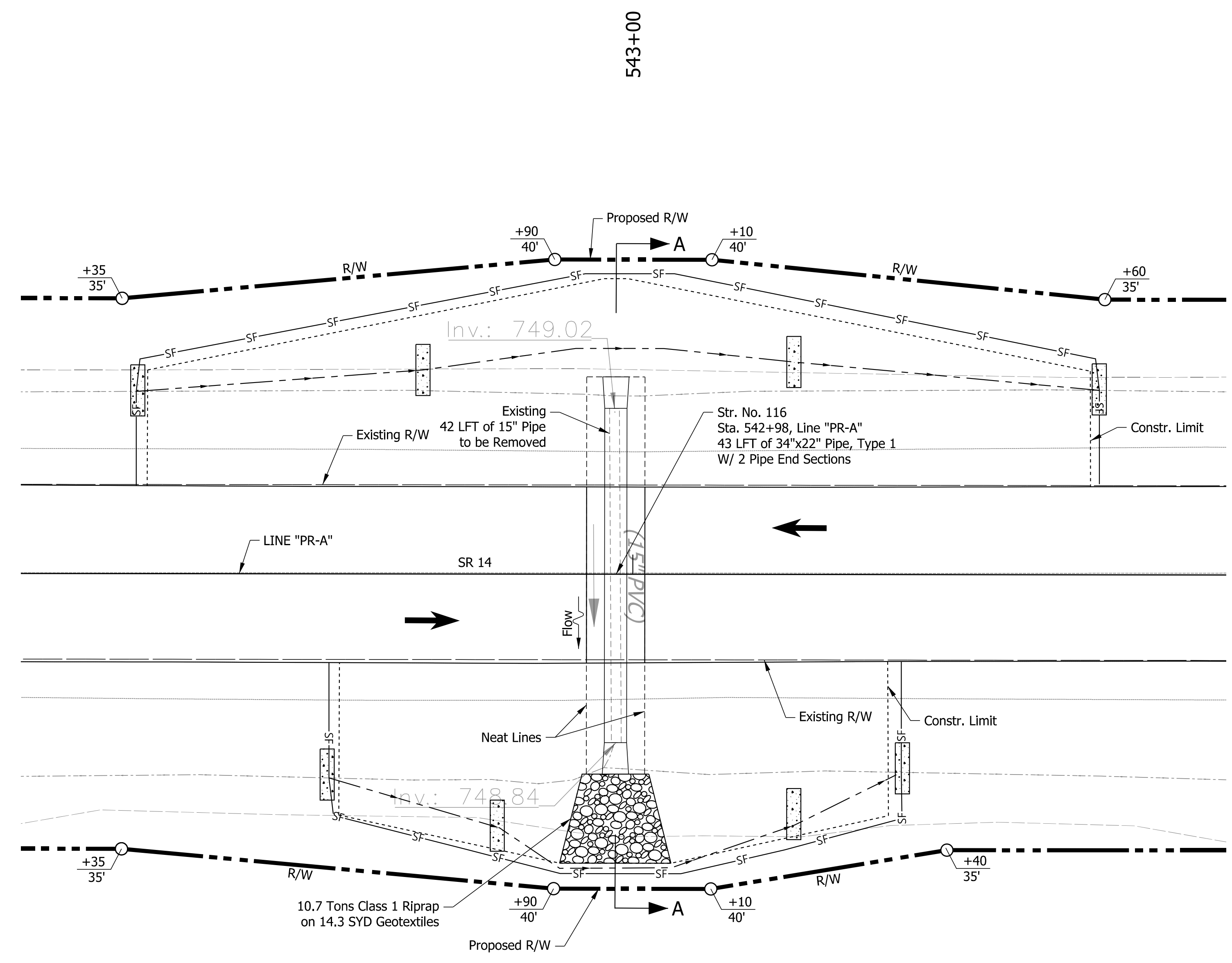
- Temporary Check Dam
- Silt Fence

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		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

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
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	SHEETS
	69 of 125
CONTRACT	PROJECT
RS-41443	1800182

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REINFORCED CONCRETE ELLIPTICAL PIPE

SPAN: 34", RISE: 22"
 SKEW: 0°, LINE "PR-A"
 SR 14 OVER UNT
 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

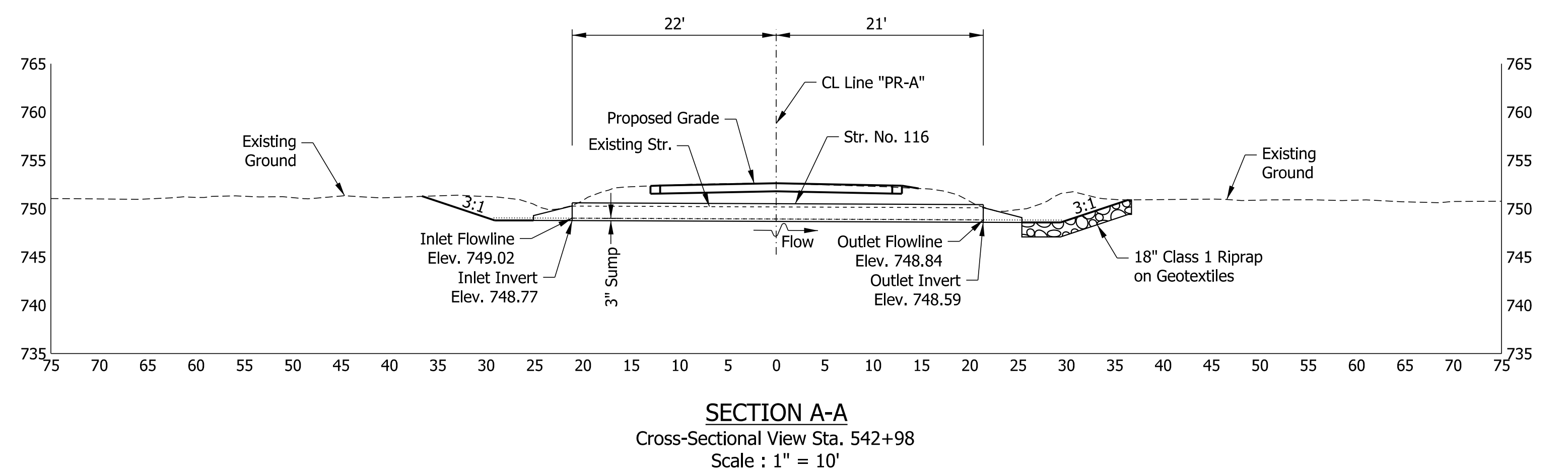
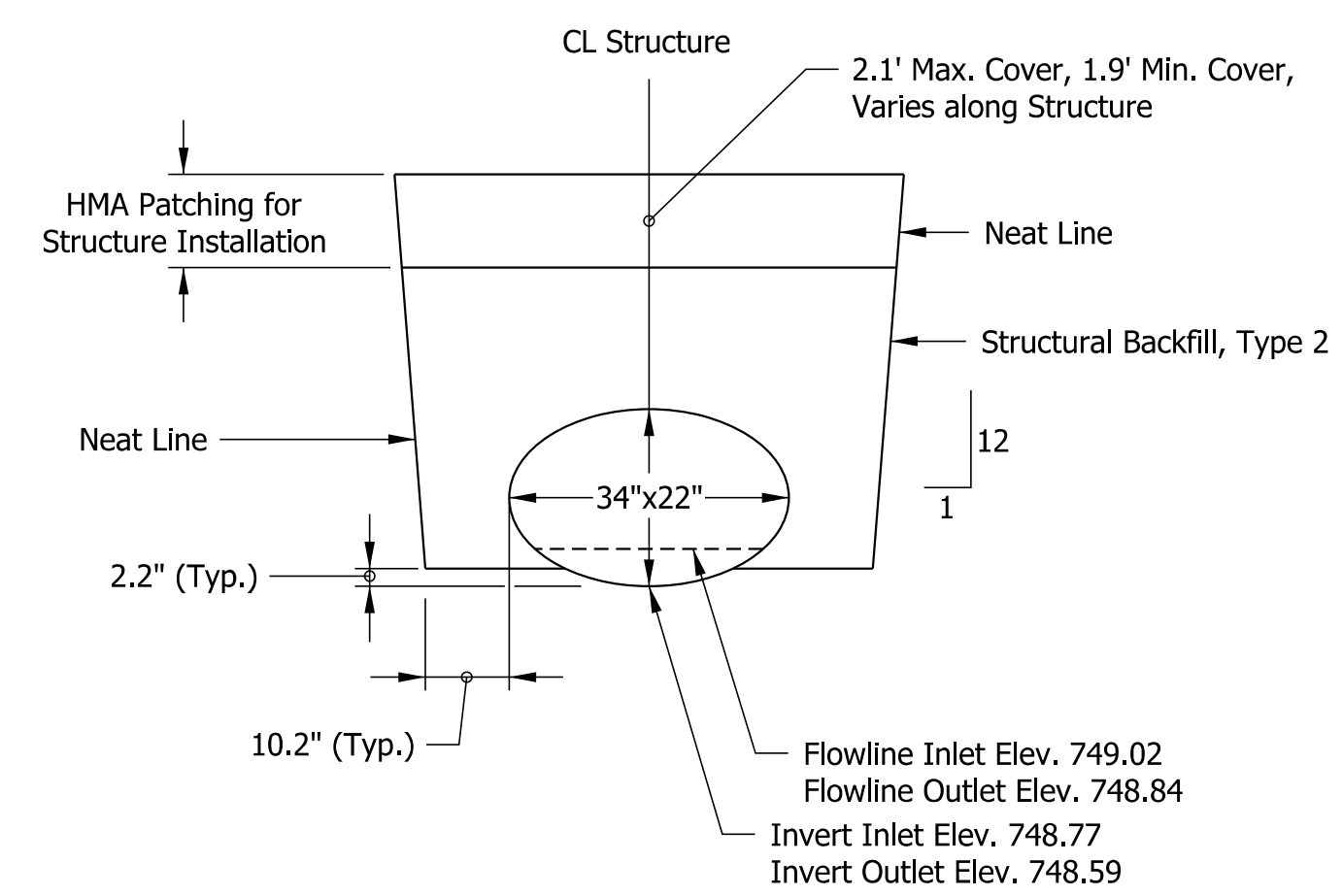
Proposed Structure 34"x22" RCEP

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



- Temporary Check Dam
- Silt Fence

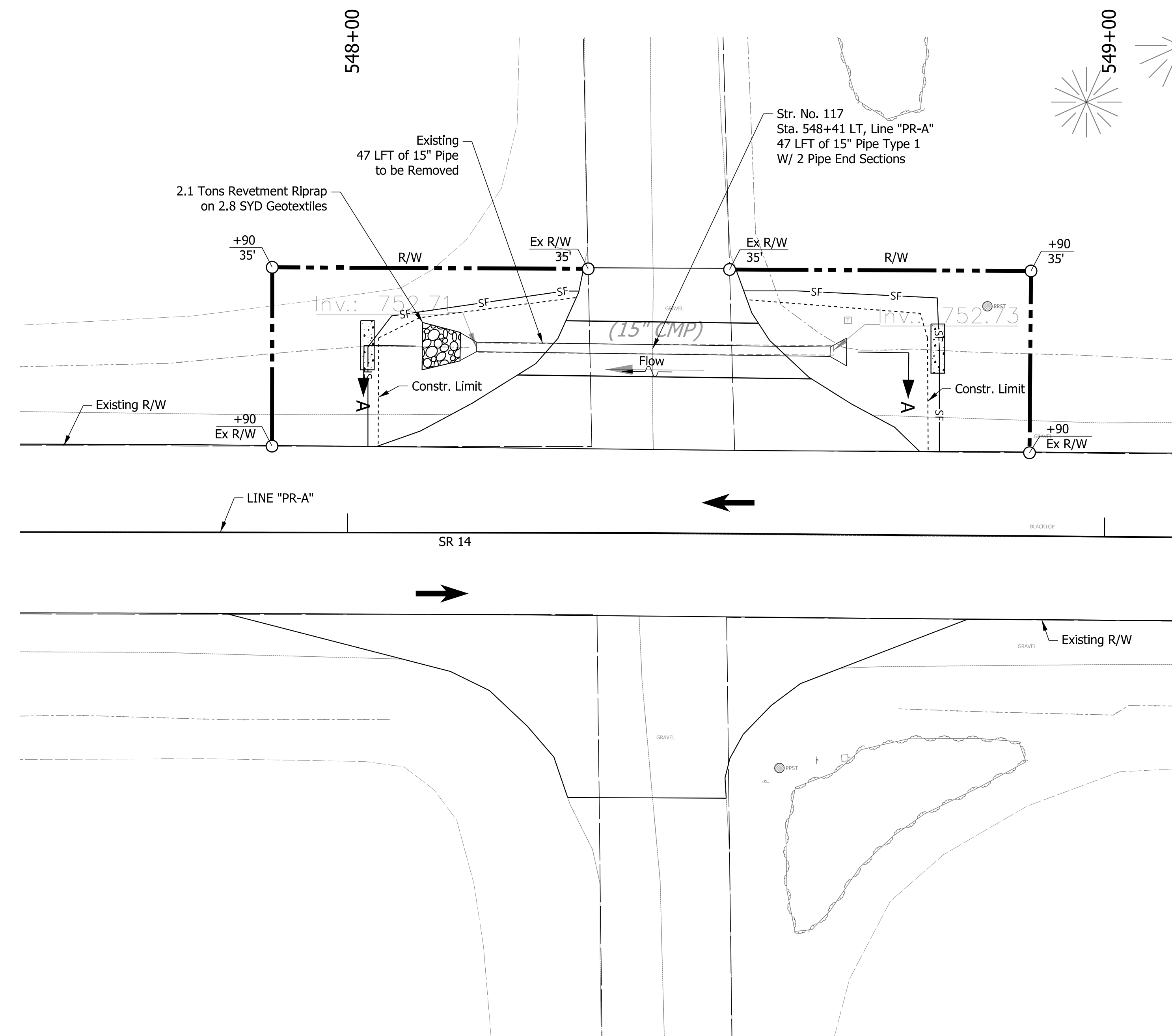
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
 DEPARTMENT OF TRANSPORTATION

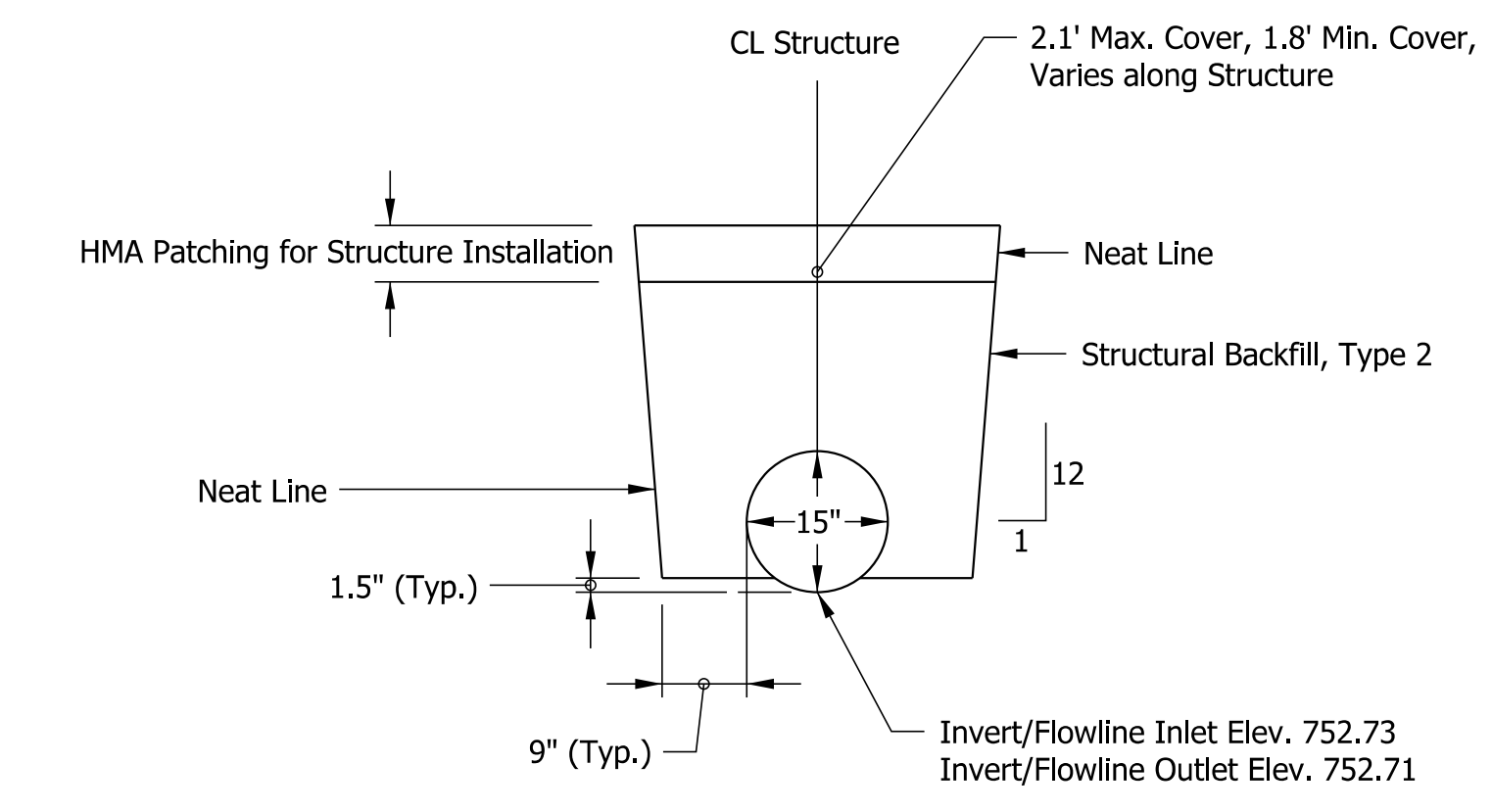
 STRUCTURE DETAILS
 STR. NO. 116

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	70 of 125
CONTRACT	PROJECT
RS-41443	1800182

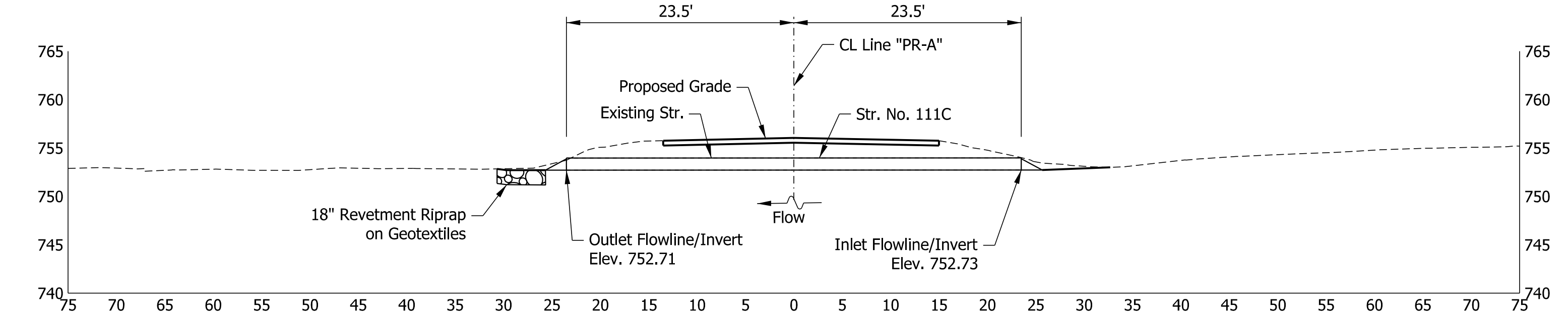
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PLAN VIEW DETAILS
SCALE : 1" = 10'



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	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
Proposed Structure 15" RCP		
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	
Existing Structure 12" CMP		
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

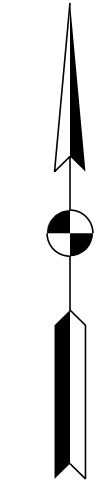
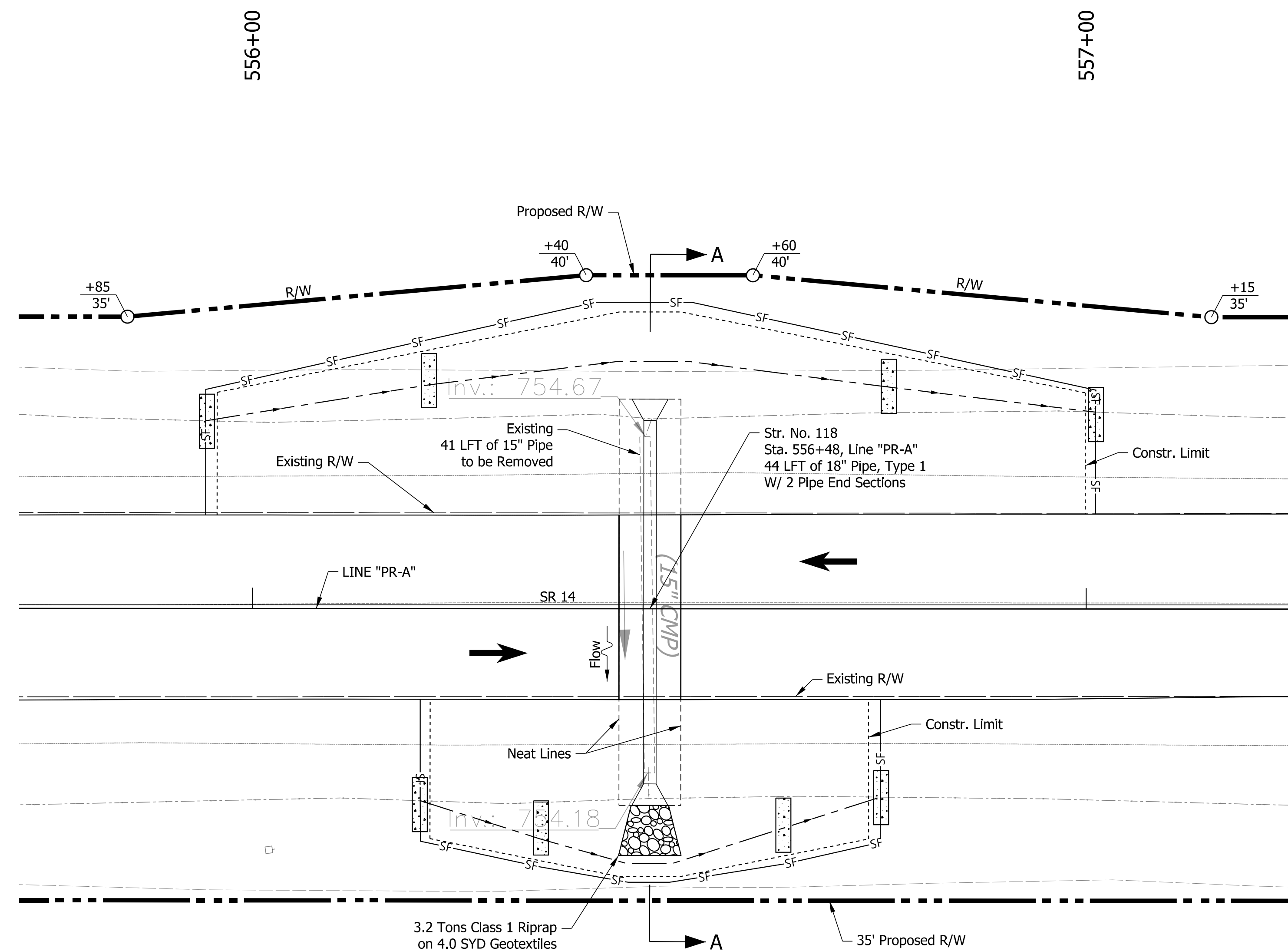
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		XX/XX/2020
	DESIGN ENGINEER		DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021
CHECKED: AH	03/2021	CHECKED: AH	03/2021

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STR. NO. 117

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	71 of 125
CONTRACT	PROJECT
RS-41443	1800182

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REINFORCED CONCRETE PIPE

SPAN: 18", RISE: 18"
 SKEW: 42°, LINE "PR-A"
 SR 14 OVER UNUT
 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

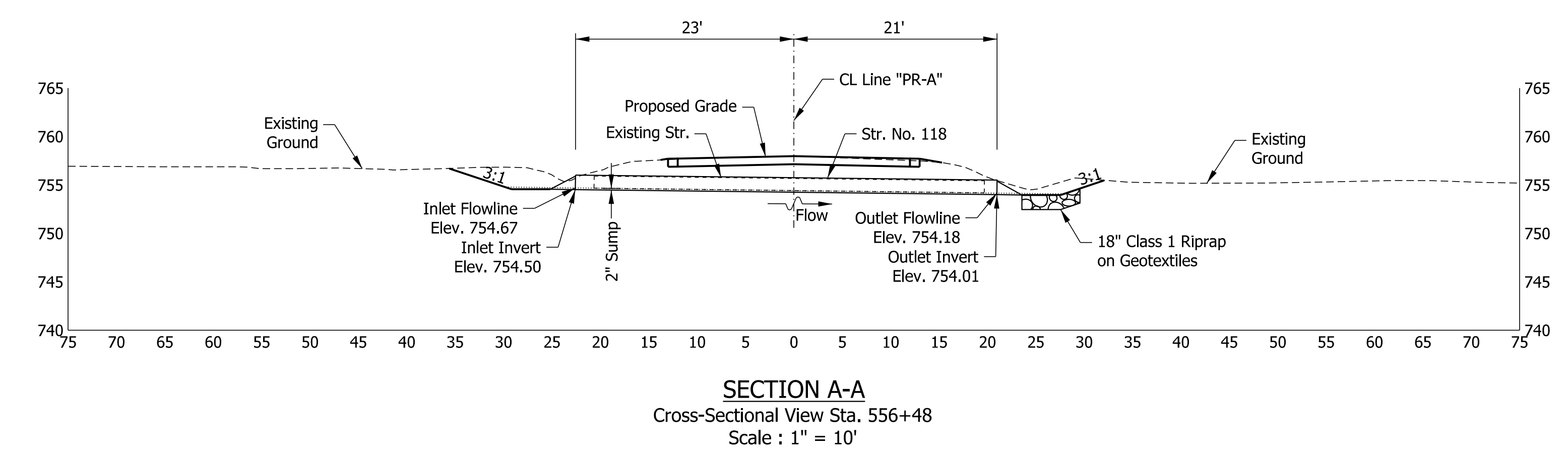
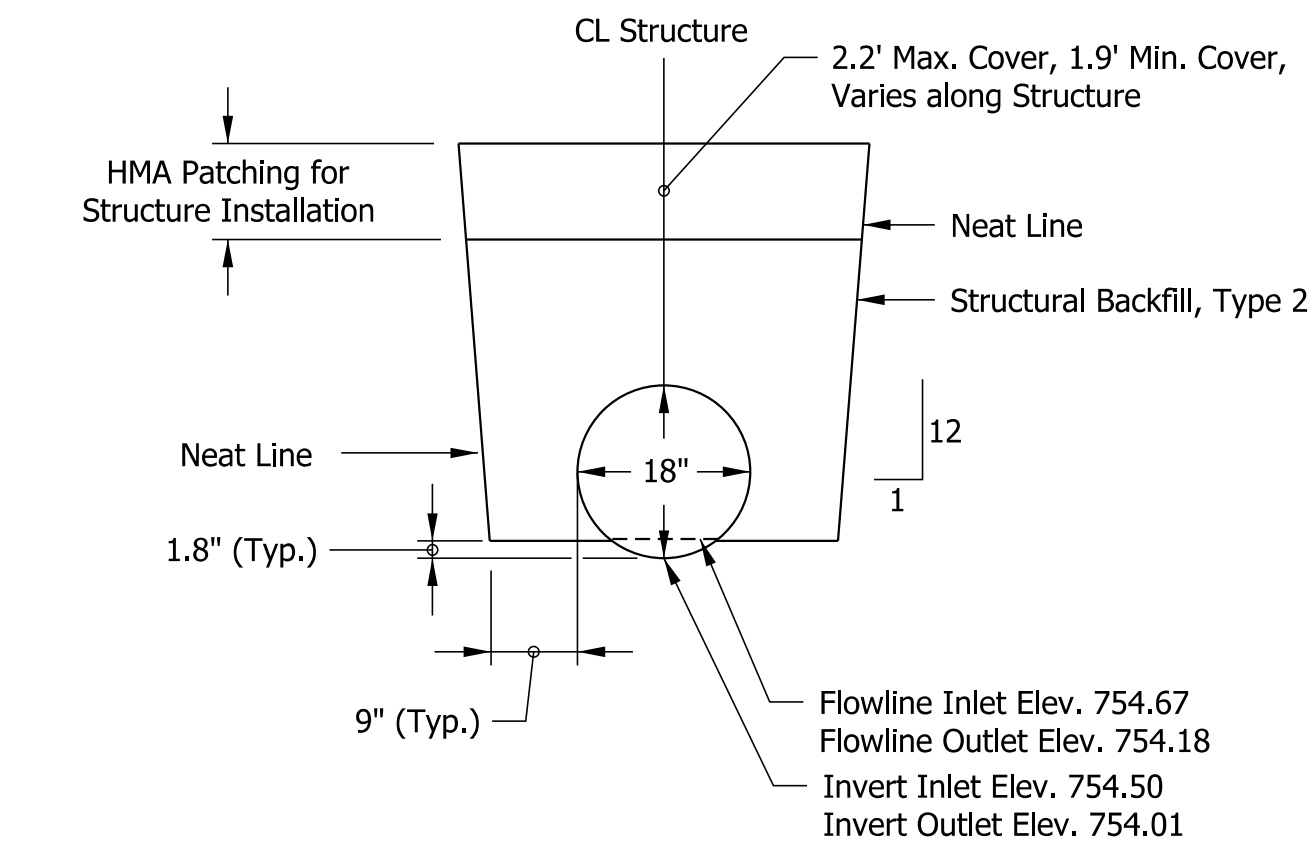
Proposed Structure 18" RCP

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	

Existing Structure 15" CMP

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



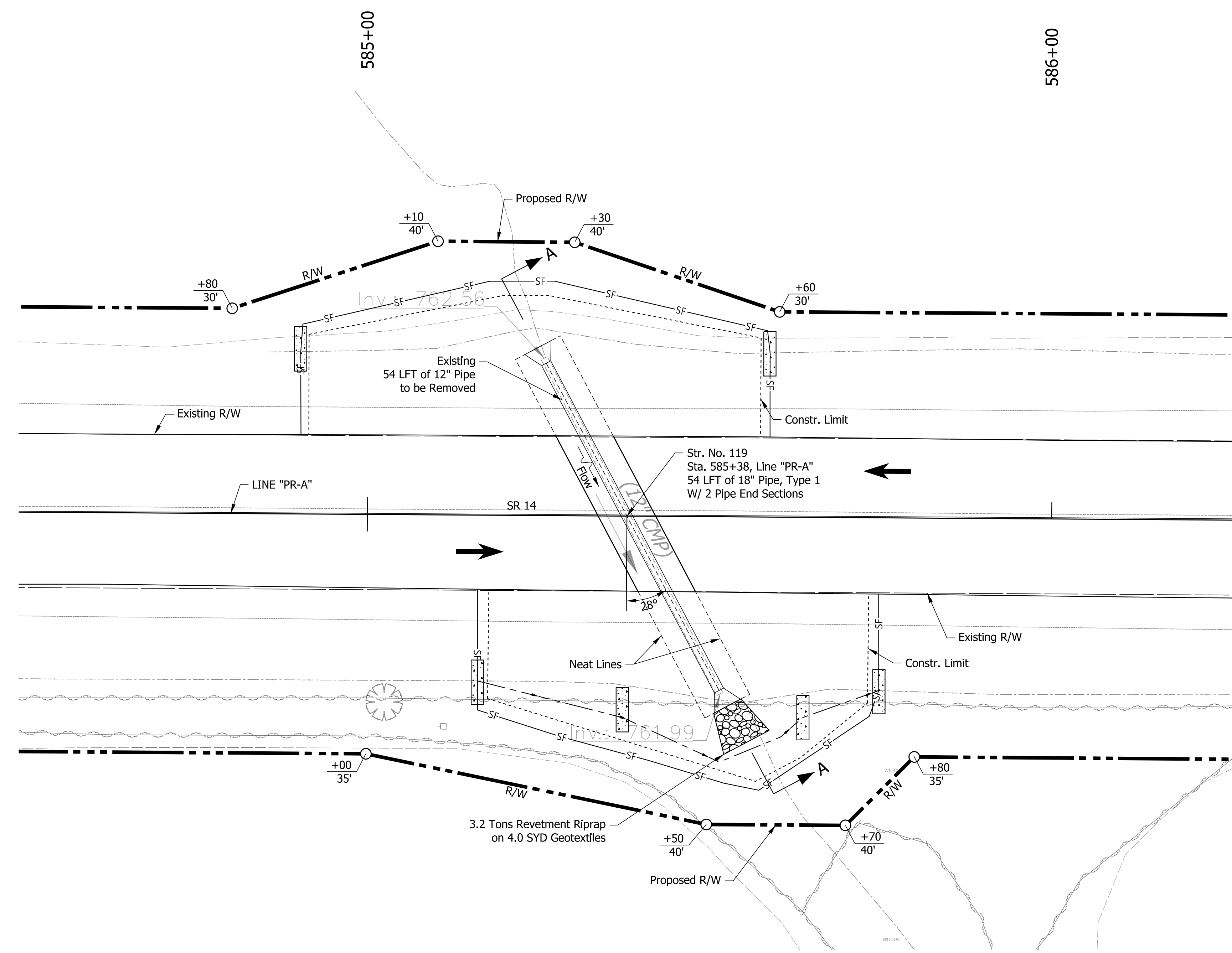
- Temporary Check Dam
- Silt Fence

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. 118

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	72 of 125
CONTRACT	PROJECT
RS-41443	1800182

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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

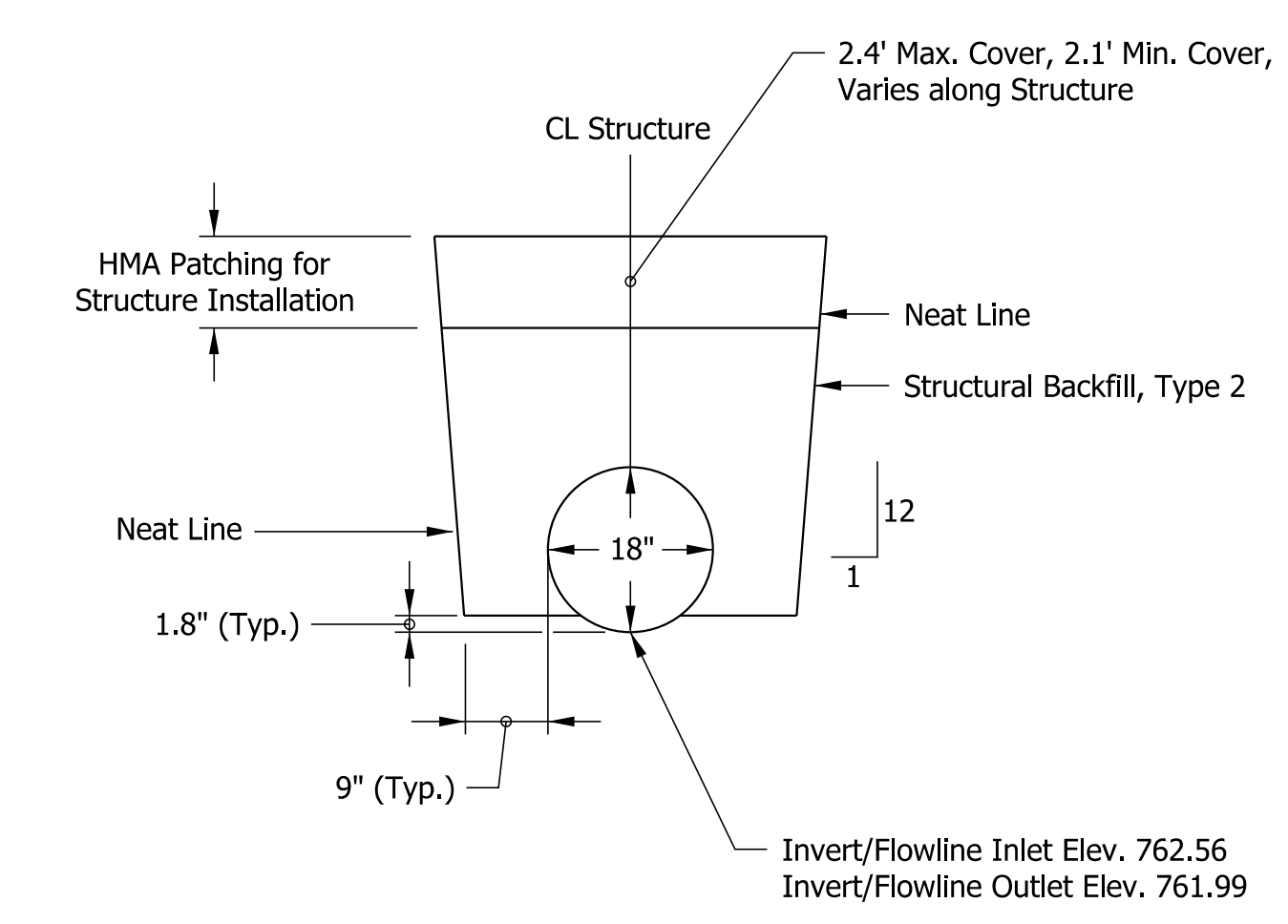
Proposed Structure 18" RCP

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	

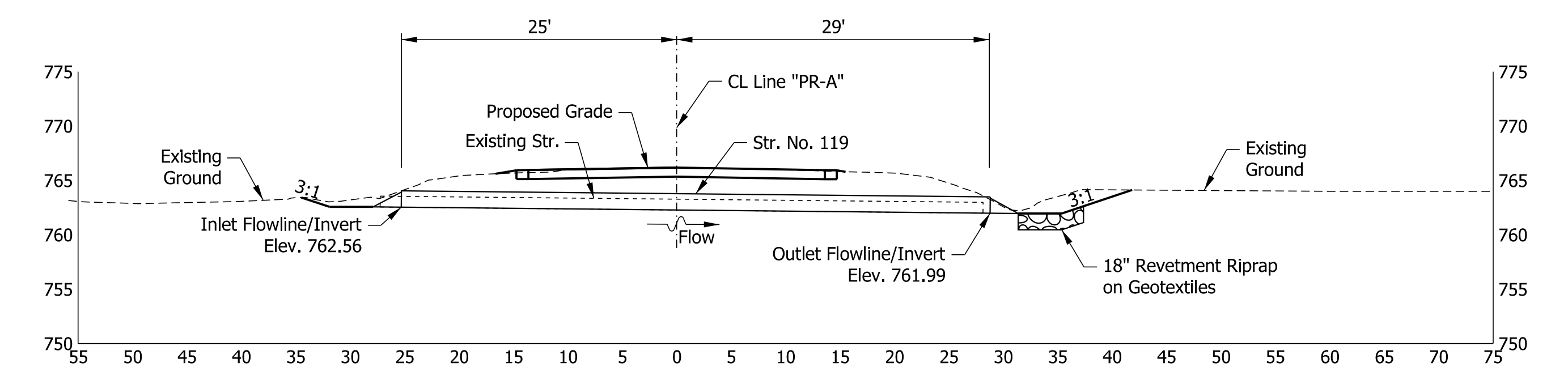
Existing Structure 12" CMP

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

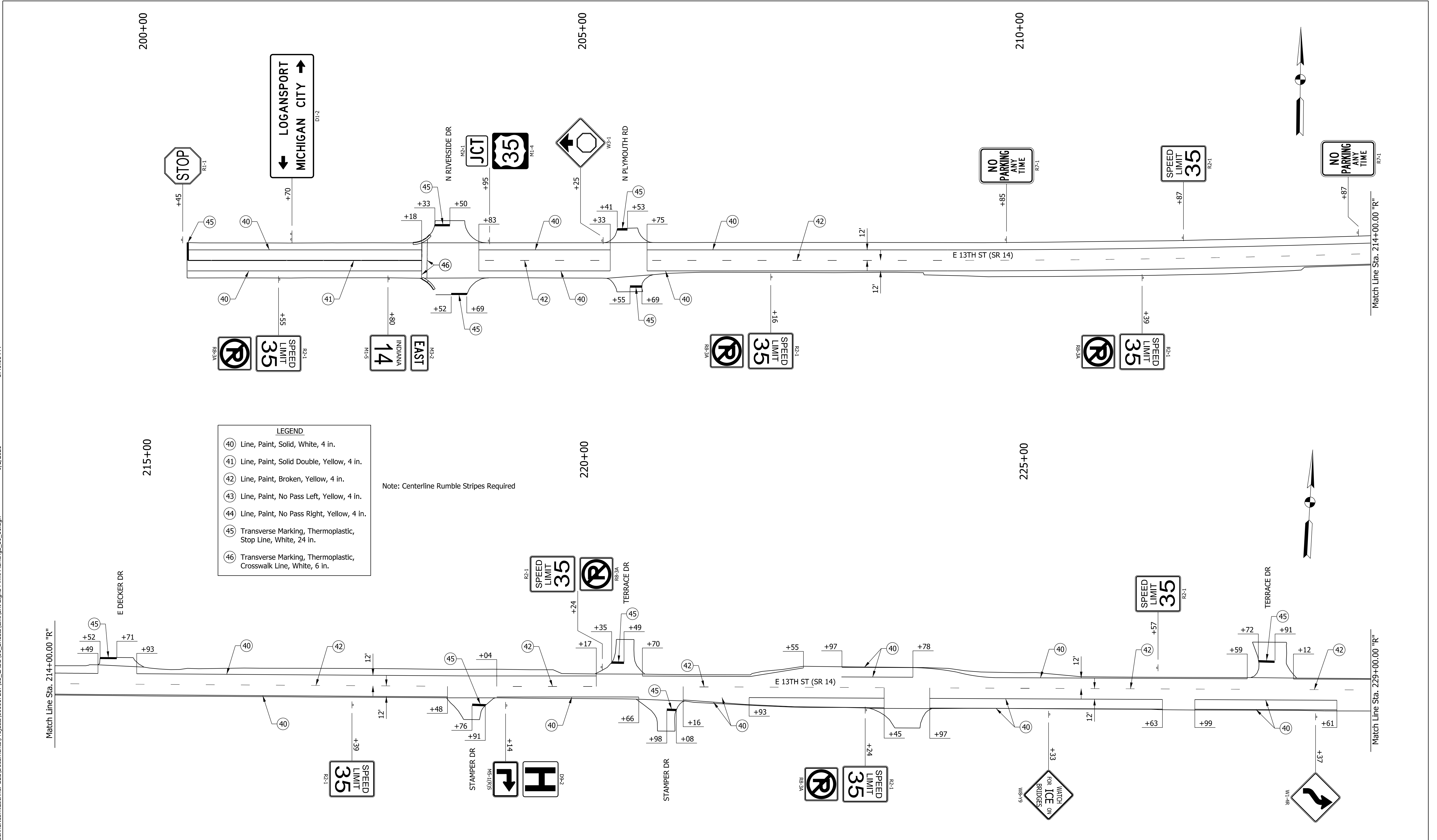
STRUCTURE DETAILS
STR. NO. 119

SCALE	BRIDGE FILE
AS SHOWN	N/A
	DESIGNATION
	1800182
	SHEETS
	73 of 125
	PROJECT
CONTRACT	1800182
RS-41443	

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9/2/2021

Plot: pw:\VSS\PC-PW\INT.h\lochner-slc\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Shd Signs Pmnt Markings_50_01.dgn



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.

Note: Centerline Rumble Stripes Required

RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>	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"

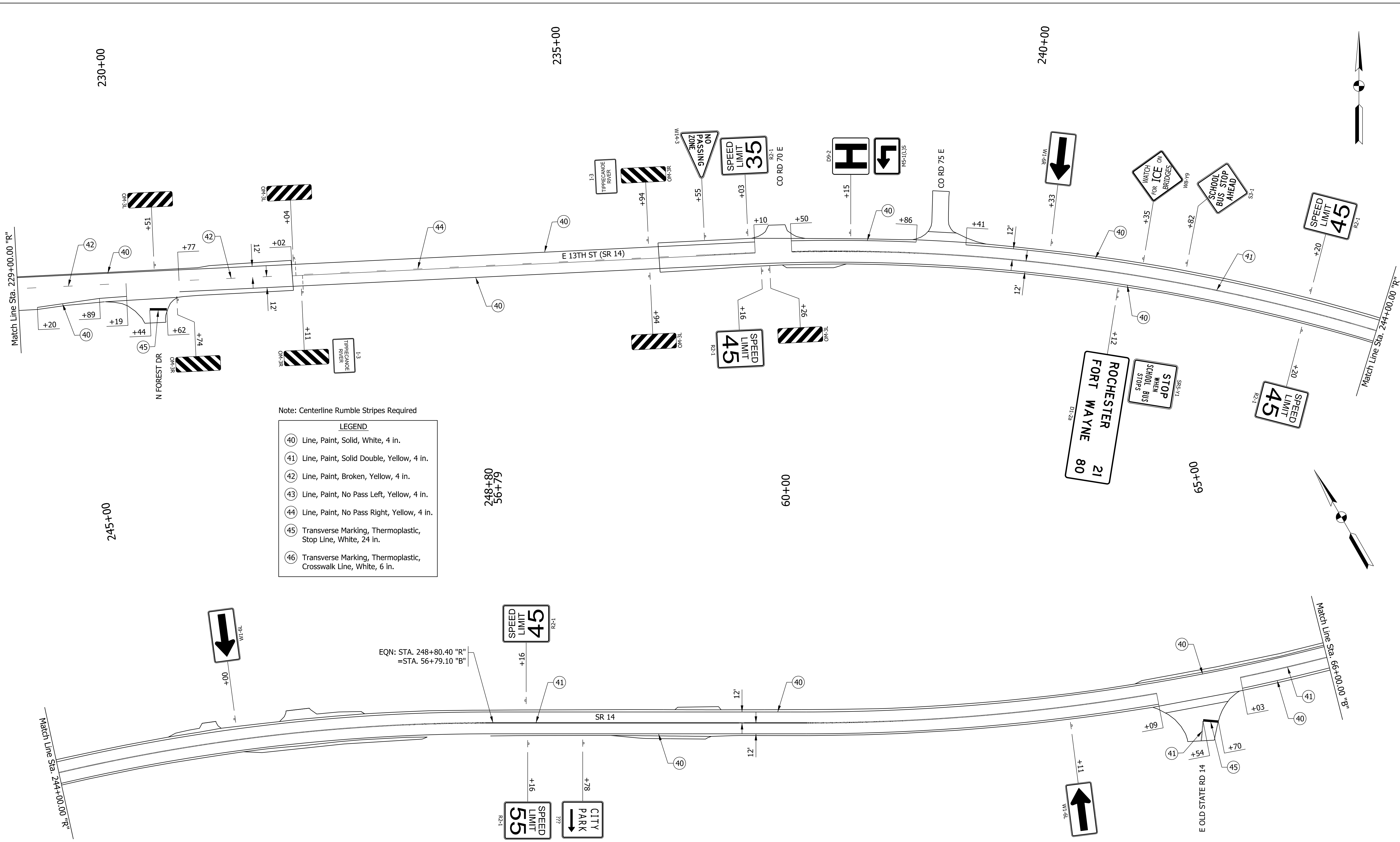
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
	DESIGNATION
	1800182
	SHEETS
	74 of 125
CONTRACT	PROJECT
R5-41443	1800182

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9/2/2021

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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.

EQN: STA. 248+80.40 "R"
=STA. 56+79.10 "B"

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

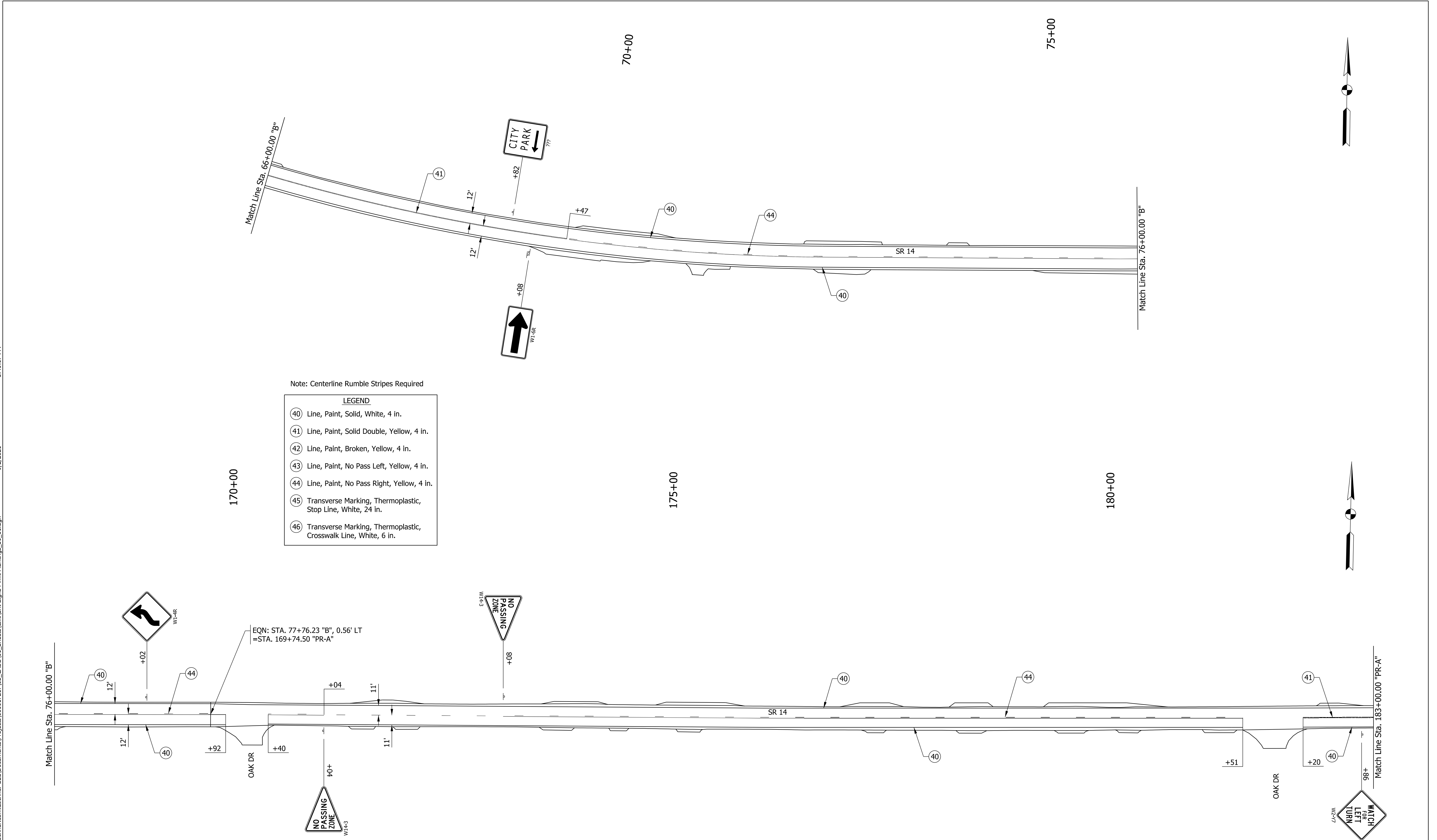
PAVEMENT MARKING & SIGNING DETAILS
STA. 229+00 "R" TO STA. 66+00 "B"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
CONTRACT	SHEETS
RS-41443	75 of 125
	PROJECT
	1800182

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9/2/2021

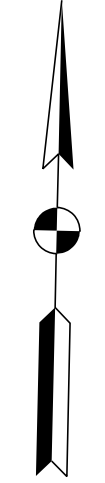
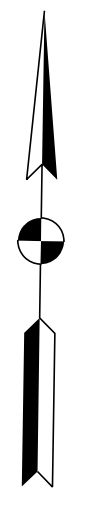
Plot: p:\v\SSLC-P\INT.h\lochner.com\Lochner-SC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\ShT Signs Pvmr Markings_50_01.dgn



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.



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

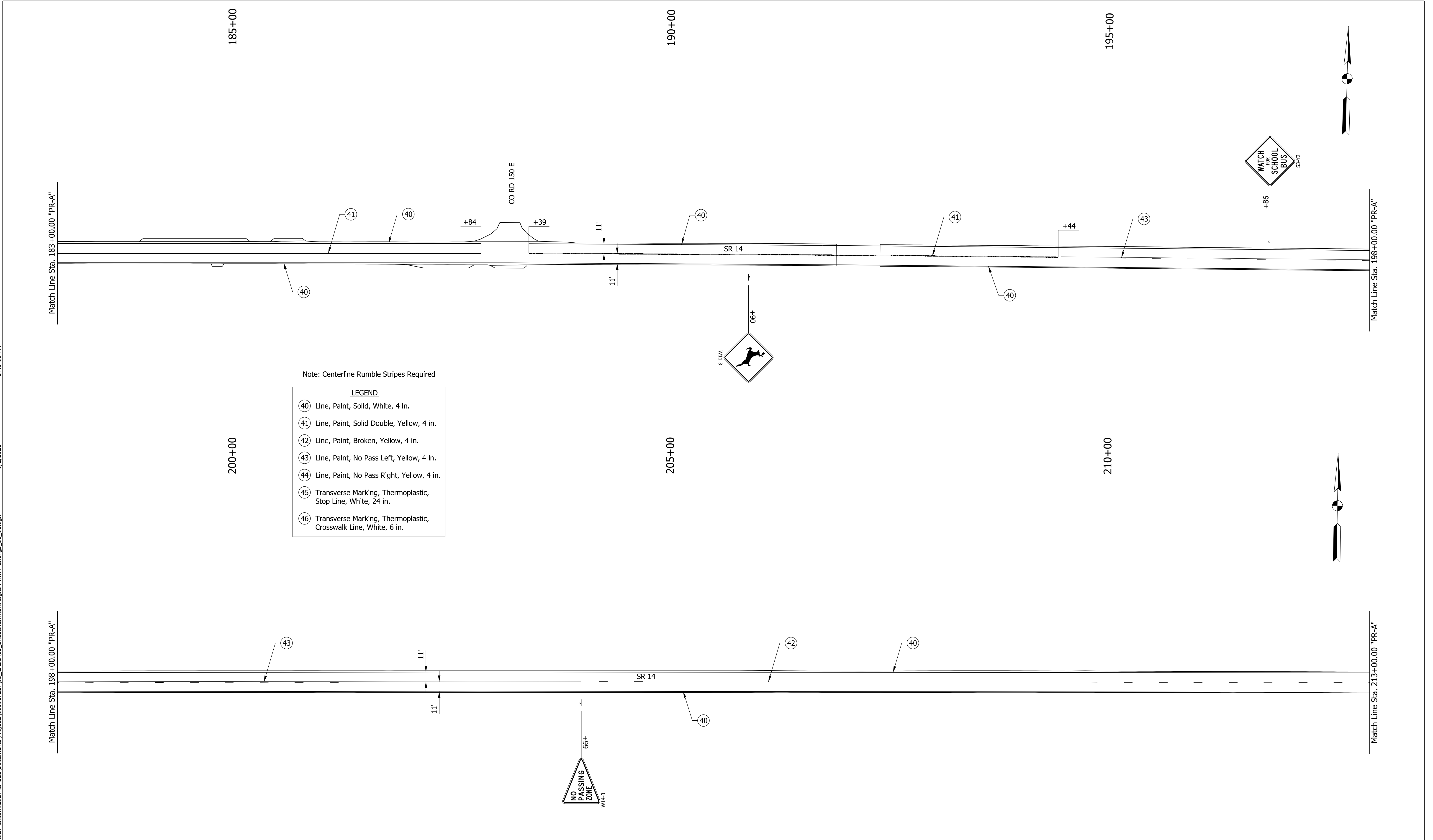
PAVEMENT MARKING & SIGNING DETAILS
STA. 66+00 "B" TO STA. 183+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 10'	1800182	
	SHEETS	
	76 of 125	
CONTRACT	PROJECT	
RS-41443	1800182	

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9/7/2021

Plot: p:\v\SSLC-P\INT\h\lochner.com\Lochner-SC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Sht Signs Pmnt Markings_50_01.dgn



Note: Centerline Rumble Stripes Required

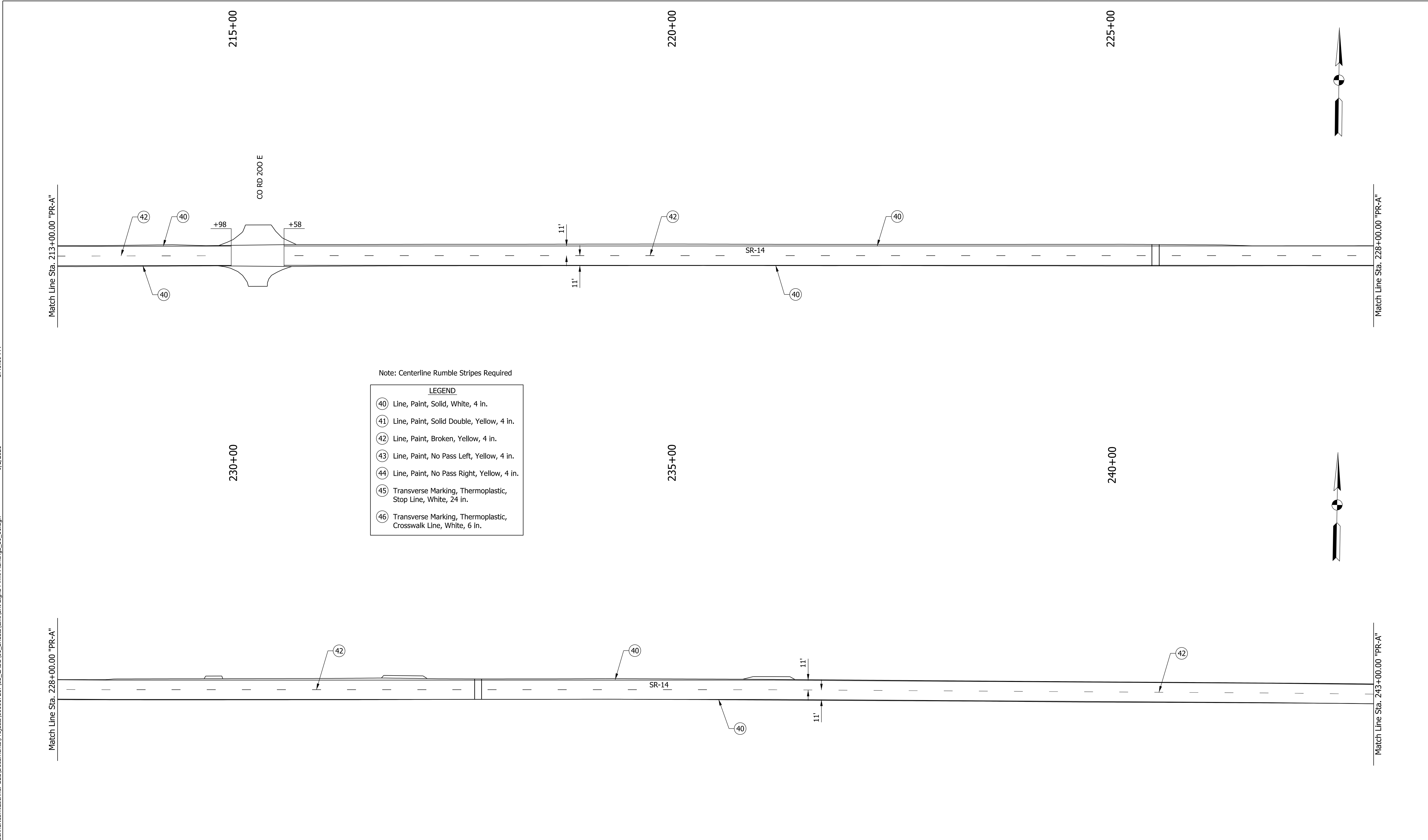
LEGEND	
(40)	Line, Paint, Solid, White, 4 in.
(41)	Line, Paint, Solid Double, Yellow, 4 in.
(42)	Line, Paint, Broken, Yellow, 4 in.
(43)	Line, Paint, No Pass Left, Yellow, 4 in.
(44)	Line, Paint, No Pass Right, Yellow, 4 in.
(45)	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46)	Transverse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

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	
77 of 125	
CONTRACT	PROJECT
RS-41443	1800182

File: c:\pw_working\lochner-slc\jsherrick\d0130095\Sht Signs Pvm Markings_50_01.dgn
 Model: RD_Sht_05
 9/2/2021 3:40:09 PM



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

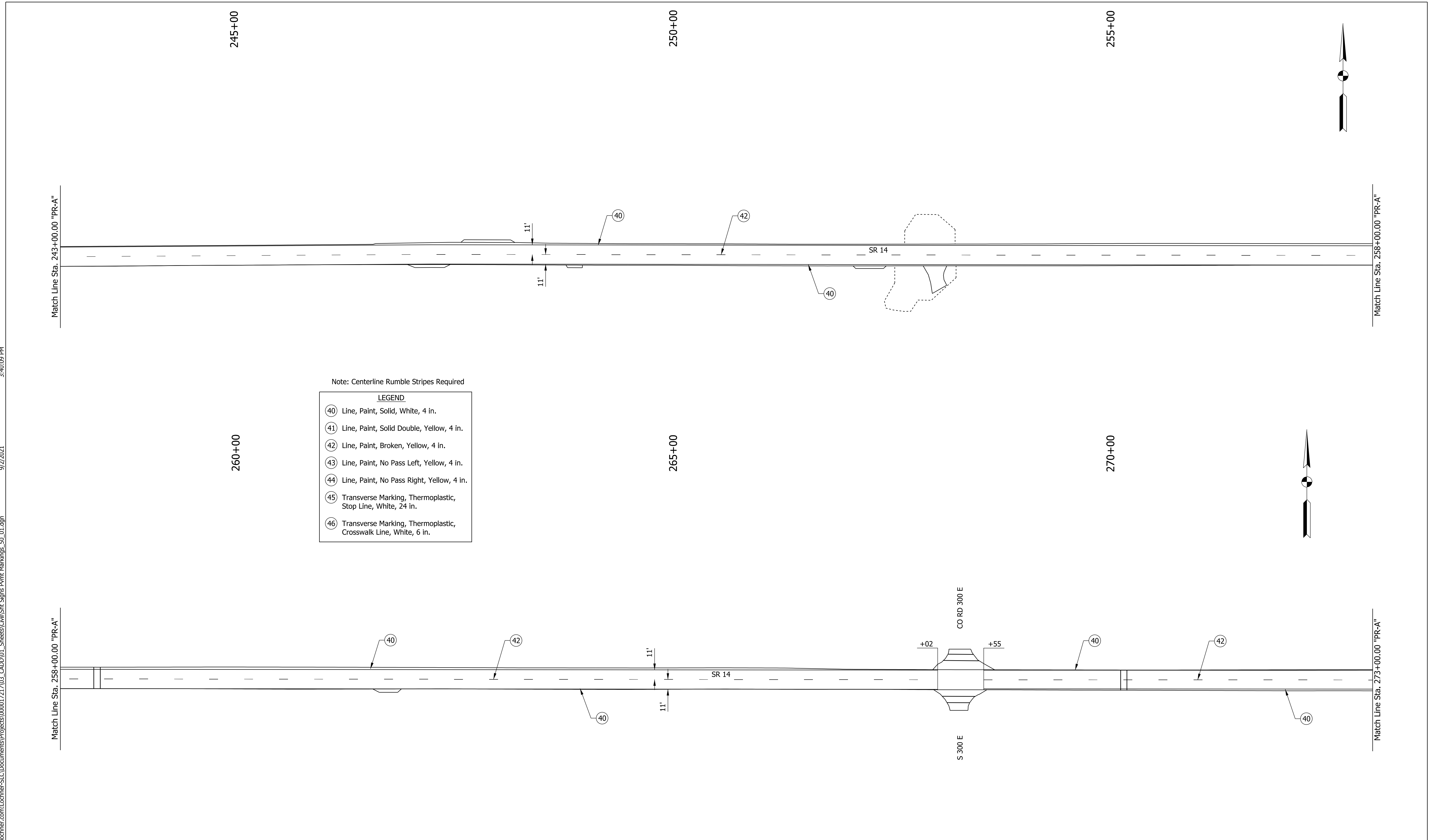
INDIANA DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING DETAILS STA. 213+00 TO STA. 243+00 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
78 of 125	
CONTRACT	PROJECT
RS-41443	1800182

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9/2/2021

Plot: p:\v\SSLC-P\W\T\h\lochner.com\Lochner-S\Projects\00001721703_CADD\01_Sheets\Civil\Sht Signs Pvmr Markings_50_01.dgn



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

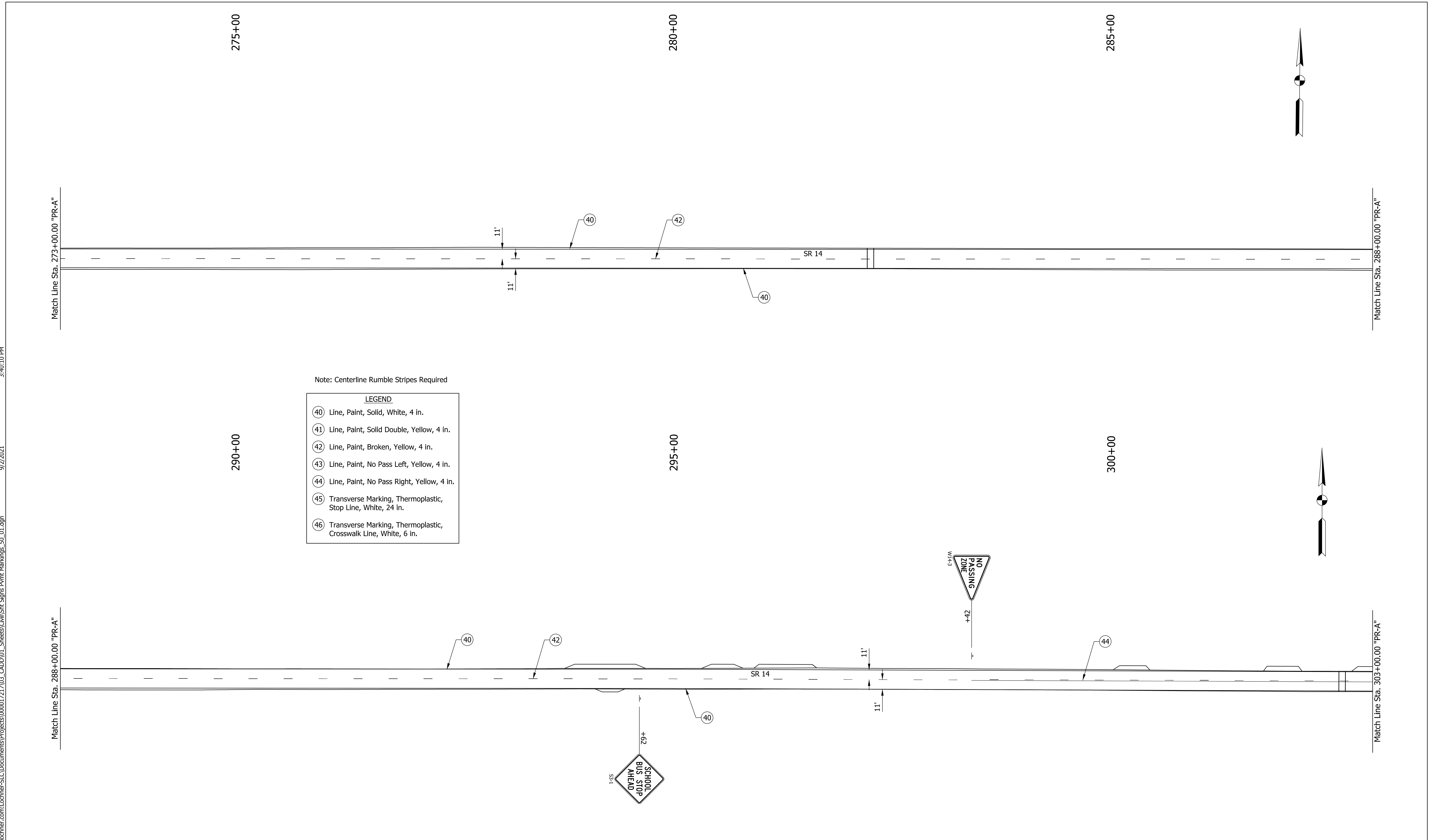
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING & SIGNING DETAILS STA. 243+00 TO STA. 273+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
79 of 125	
CONTRACT	PROJECT
RS-41443	1800182

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Plot: p:\v\SSLC-P\W\T\h\lochner.com\Projects\00001721703_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.

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

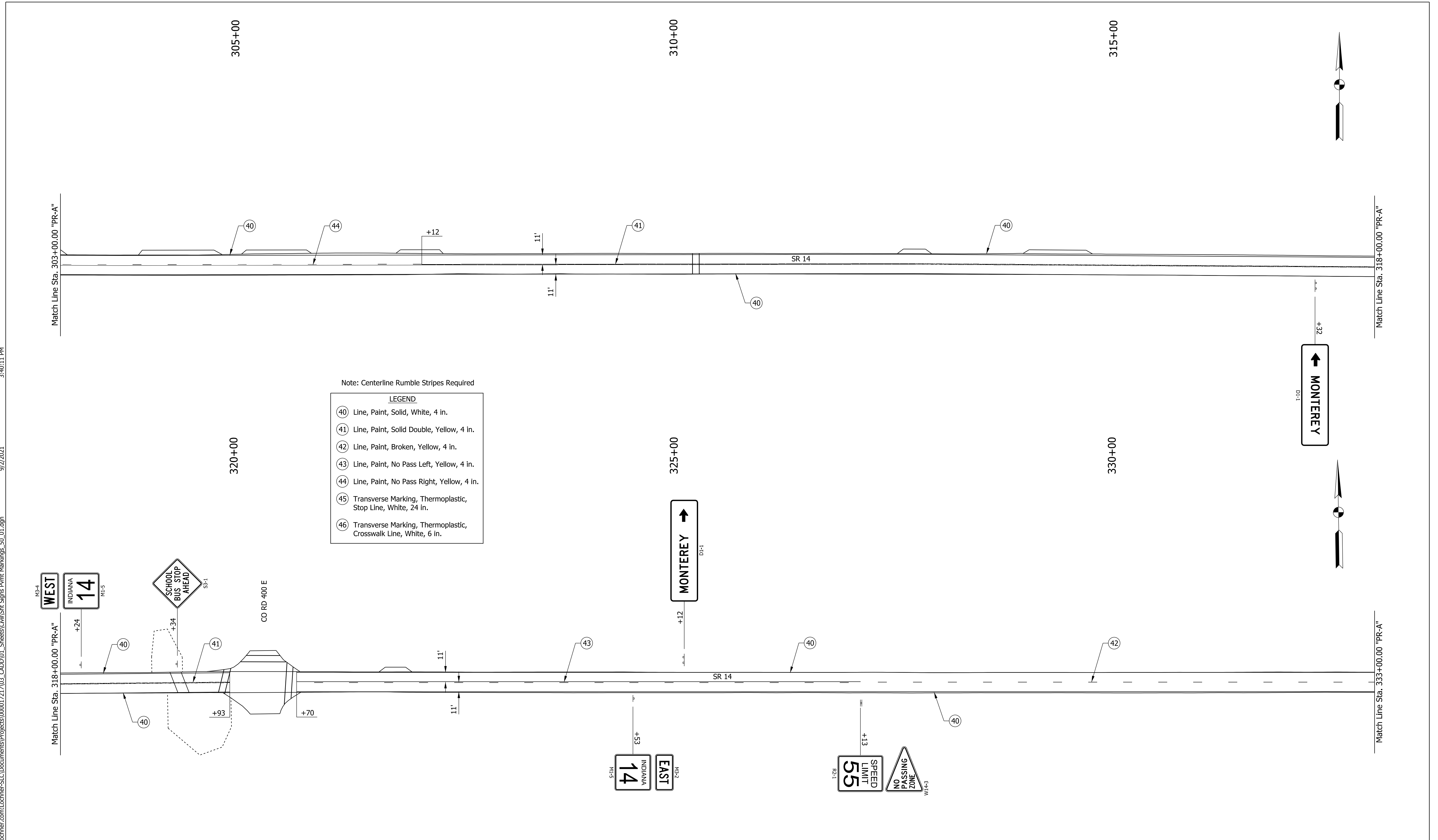
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING & SIGNING DETAILS STA. 273+00 TO STA. 303+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
80 of 125	
CONTRACT	PROJECT
RS-41443	1800182

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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.

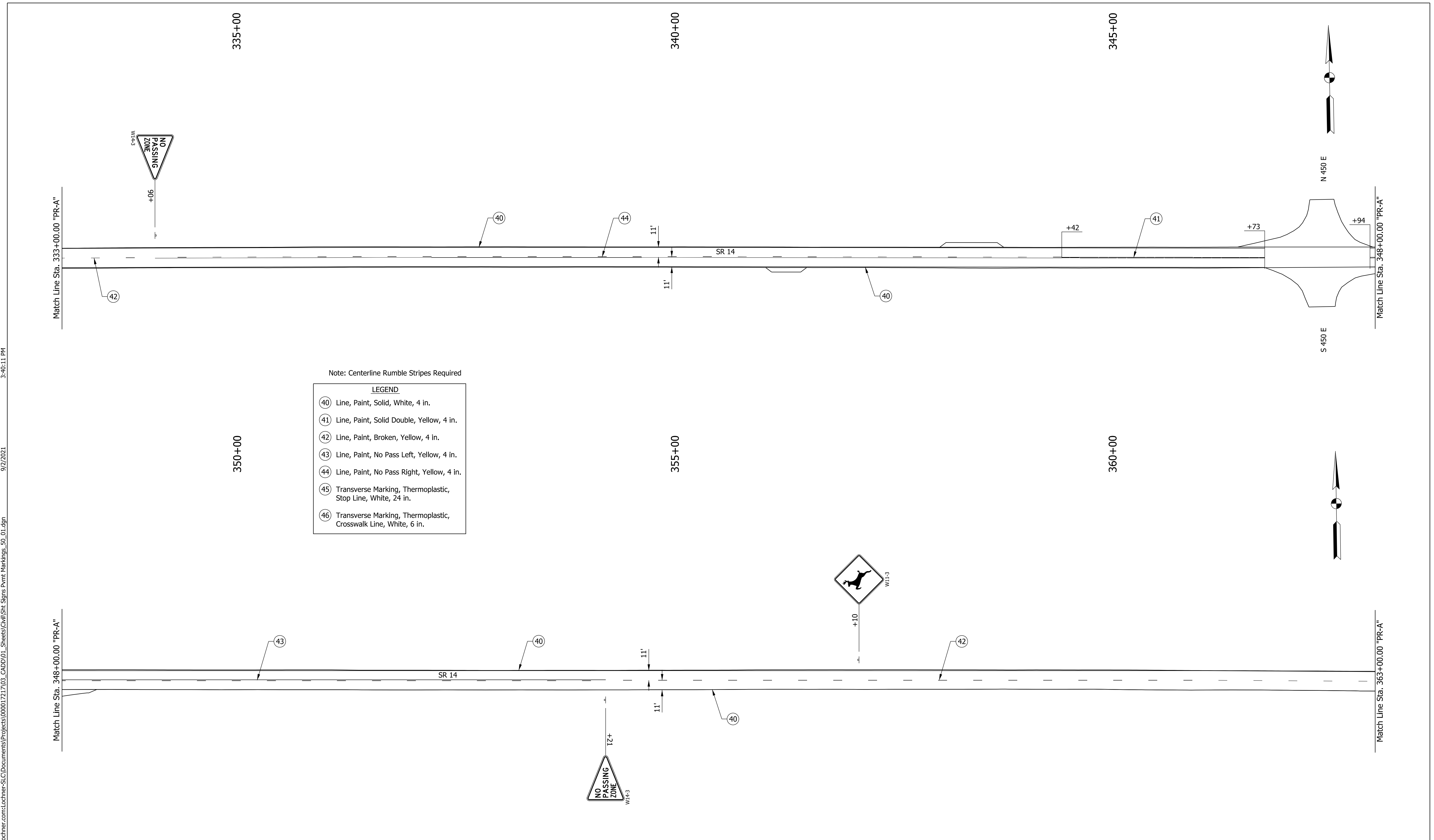
RECOMMENDED FOR APPROVAL	<i>ENG SIGNATURES</i>		DESIGN ENGINEER	DATE
DESIGNED: RAR	03/2021	DRAWN: RLK	03/2021	
CHECKED: AH	03/2021	CHECKED: AH	03/2021	

INDIANA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING & SIGNING DETAILS
STA. 303+00 TO STA. 333+00 "PR-A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
	SHEETS
	81 of 125
CONTRACT	PROJECT
RS-41443	1800182

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 Plot: p:\v\SSLC-PW\INT:\h\lochner.com\Lochner-SC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Sht Signs Pmnt Markings_50_01.dgn



Note: Centerline Rumble Stripes Required

LEGEND

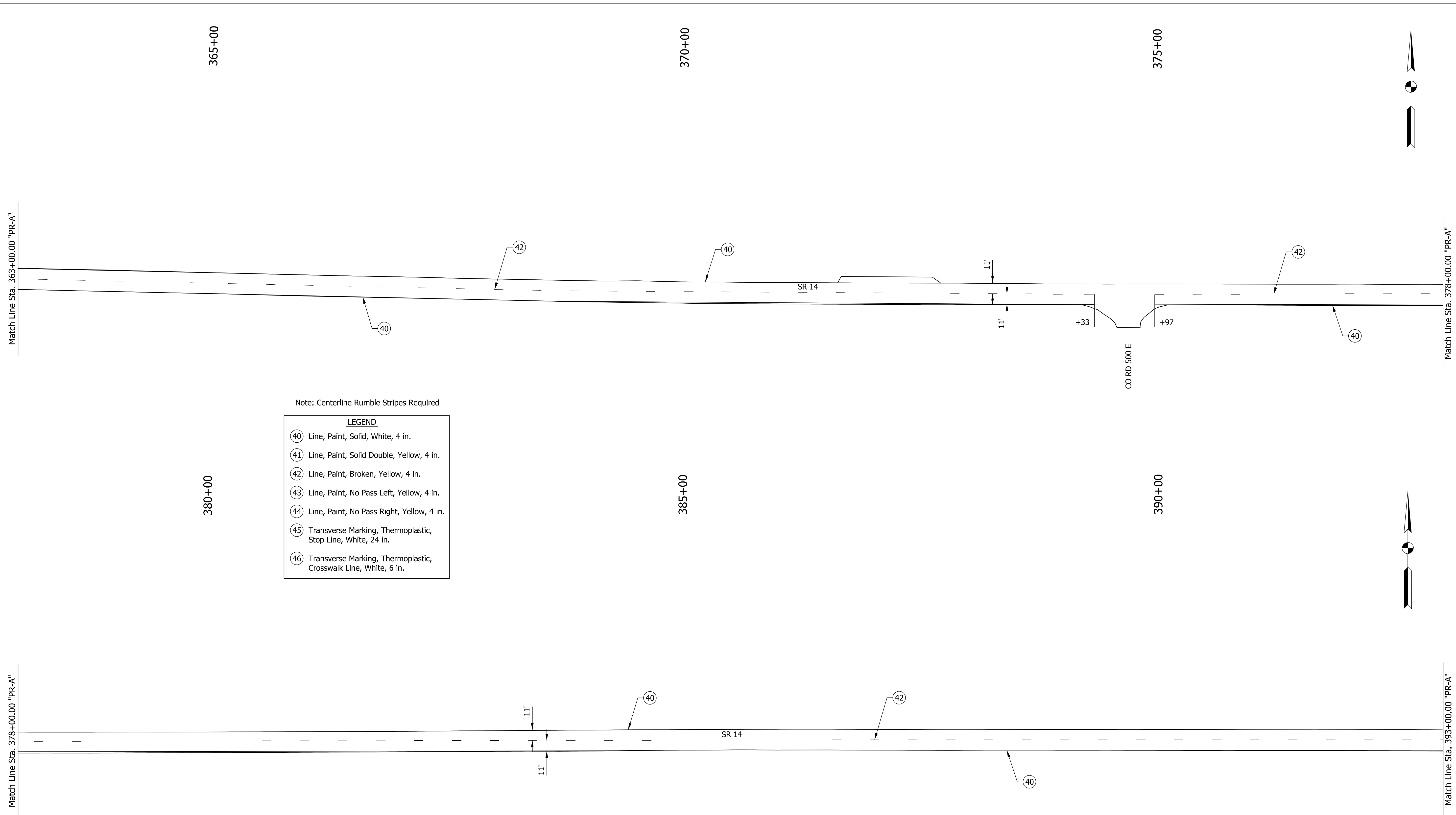
- (40) Line, Paint, Solid, White, 4 in.
- (41) Line, Paint, Solid Double, Yellow, 4 in.
- (42) Line, Paint, Broken, Yellow, 4 in.
- (43) Line, Paint, No Pass Left, Yellow, 4 in.
- (44) Line, Paint, No Pass Right, Yellow, 4 in.
- (45) Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- (46)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

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. 333+00 TO STA. 363+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
82 of 125	
CONTRACT	PROJECT
RS-41443	1800182

Plot: pw:\VSSLC-PW\INT:\h\lochner.com\Lochner-SLC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Sht Signs Pvmnt Markings_50_01.dgn
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Note: Centerline Rumble Stripes Required

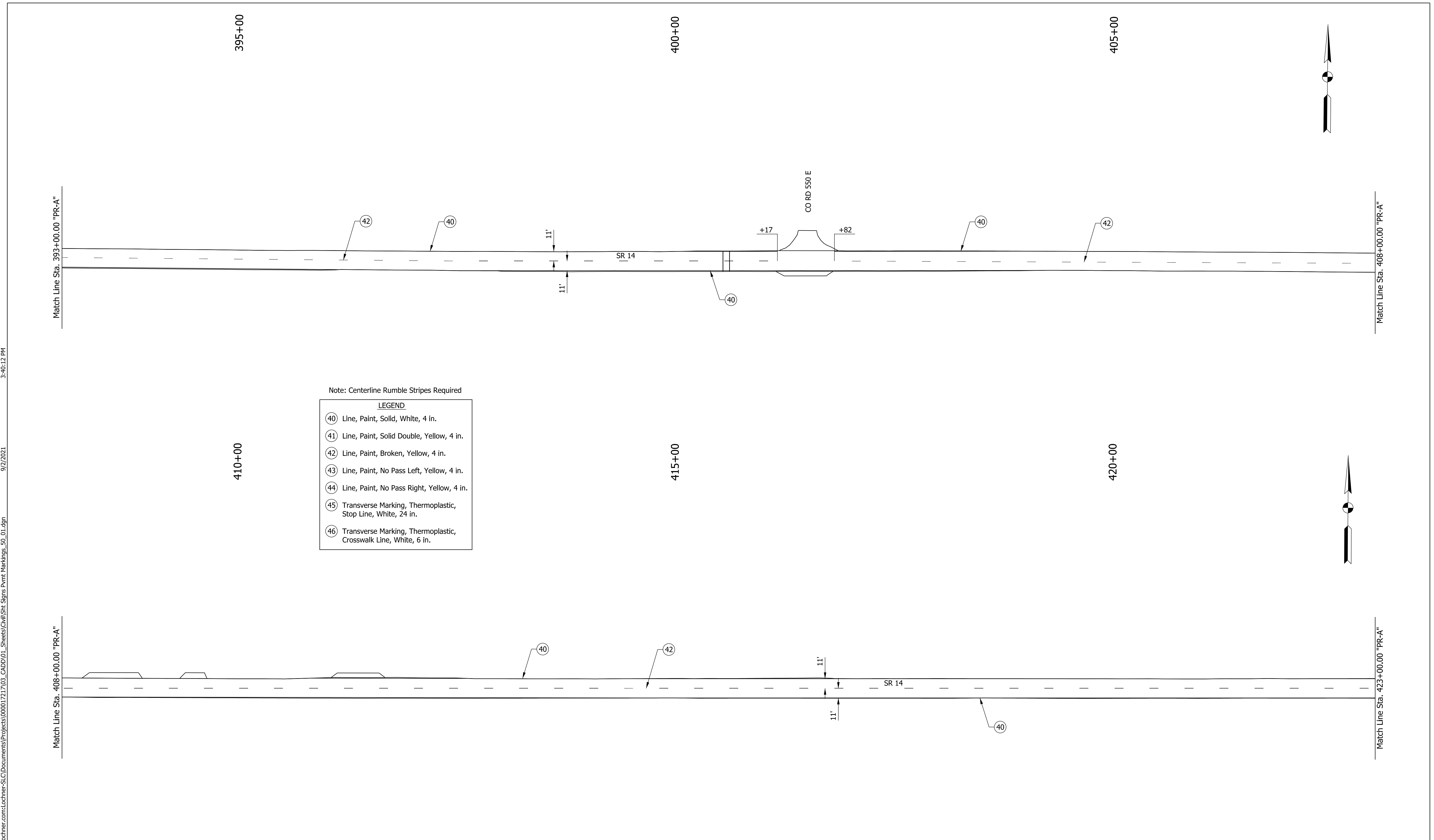
LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, 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	
PAVEMENT MARKING & SIGNING DETAILS STA. 363+00 TO STA. 393+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
83 of 125	
CONTRACT	PROJECT
RS-41443	1800182

Plot: pw:\VSSLC-PW\INT\hwochner.com\Lochner-SLC\Documents\Projects\00001721703_CADD\01_Sheets\Civil\Sht Signs Pvmt Markings_50_01.dgn
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Note: Centerline Rumble Stripes Required

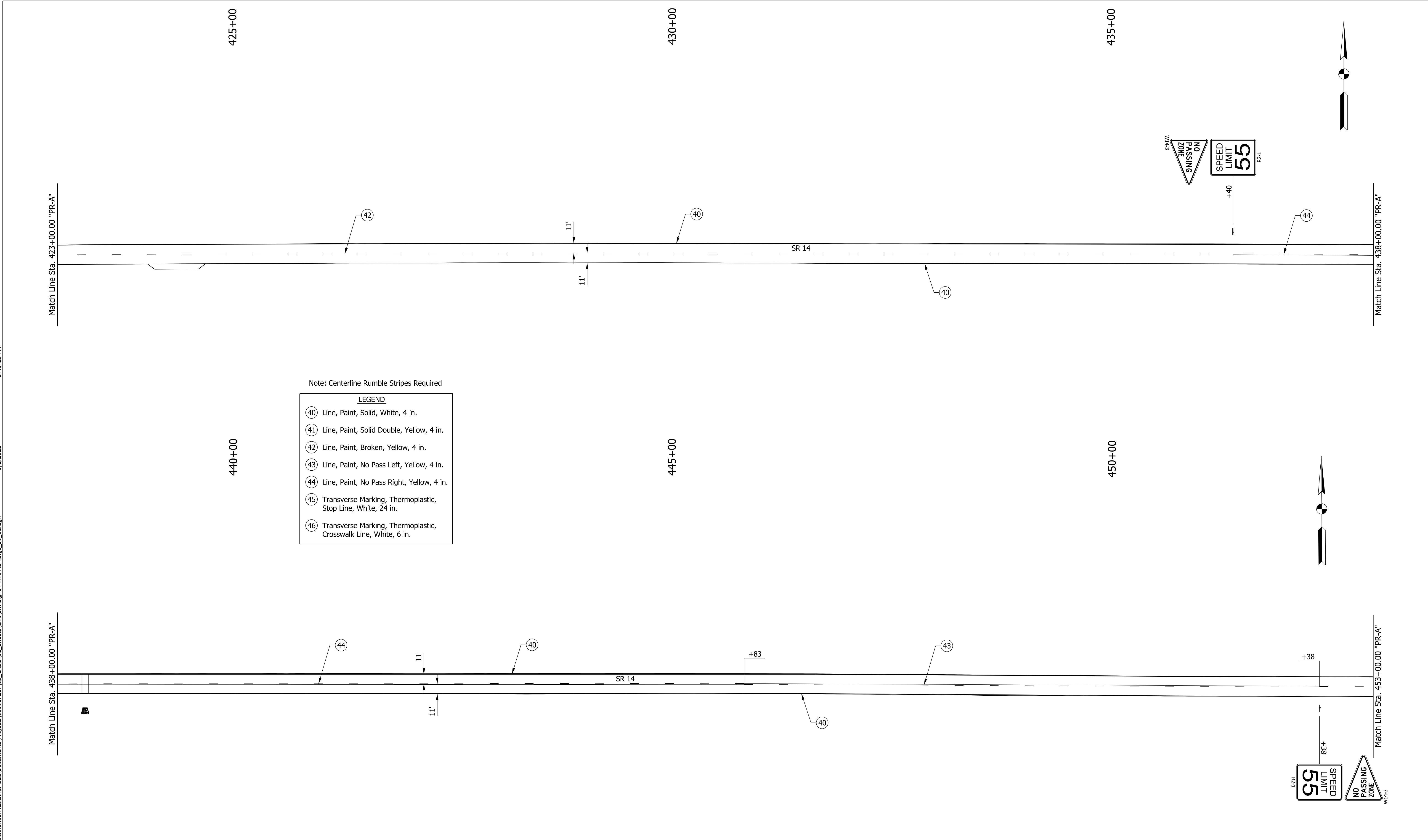
LEGEND	
40	Line, Paint, Solid, White, 4 in.
41	Line, Paint, Solid Double, Yellow, 4 in.
42	Line, Paint, Broken, Yellow, 4 in.
43	Line, Paint, No Pass Left, Yellow, 4 in.
44	Line, Paint, No Pass Right, Yellow, 4 in.
45	Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
46	Transverse Marking, 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	
PAVEMENT MARKING & SIGNING DETAILS STA. 393+00 TO STA. 423+00 "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800182
SHEETS	
84 of 125	
CONTRACT	PROJECT
RS-41443	1800182

File: c:\pw_working\lochner-slc\jsherrick\d0130095\Sht Signs Pvmnt Markings_50_01.dgn
 Model: RD_Sht_12
 9/2/2021 3:40:13 PM



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	
	85	of 125
CONTRACT	PROJECT	
RS-41443	1800182	