

PROJECT	DESIGNATION
2001541	2001541
CONTRACT	
B-41467	

CULVERT ASSETS		
DES. NO.	CULVERT ASSET ID	WORK TYPE
2001541	CLV 067-055-82.48	SMALL STRUCTURE REPLACEMENT

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: PUMPKINVINE HILL ROAD FROM: RP 82+44 TO: RP 82+52
PROJECT NO. 2001541 P.E.

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1900067	SR 67 - SMALL STRUCTURE REPLACEMENT WITH BRIDGE (LEAD DES. NO.)
1900088	SR 67 - SMALL STRUCTURE REPLACEMENT WITH BRIDGE
1902163	SR 67 - SMALL STRUCTURES & DRAINS CONSTRUCTION
1801040	SR 67 - SMALL STRUCTURE PIPE LINING
1801041	SR 67 - SMALL STRUCTURE PIPE LINING
1801042	SR 67 - SMALL STRUCTURE REPLACEMENT

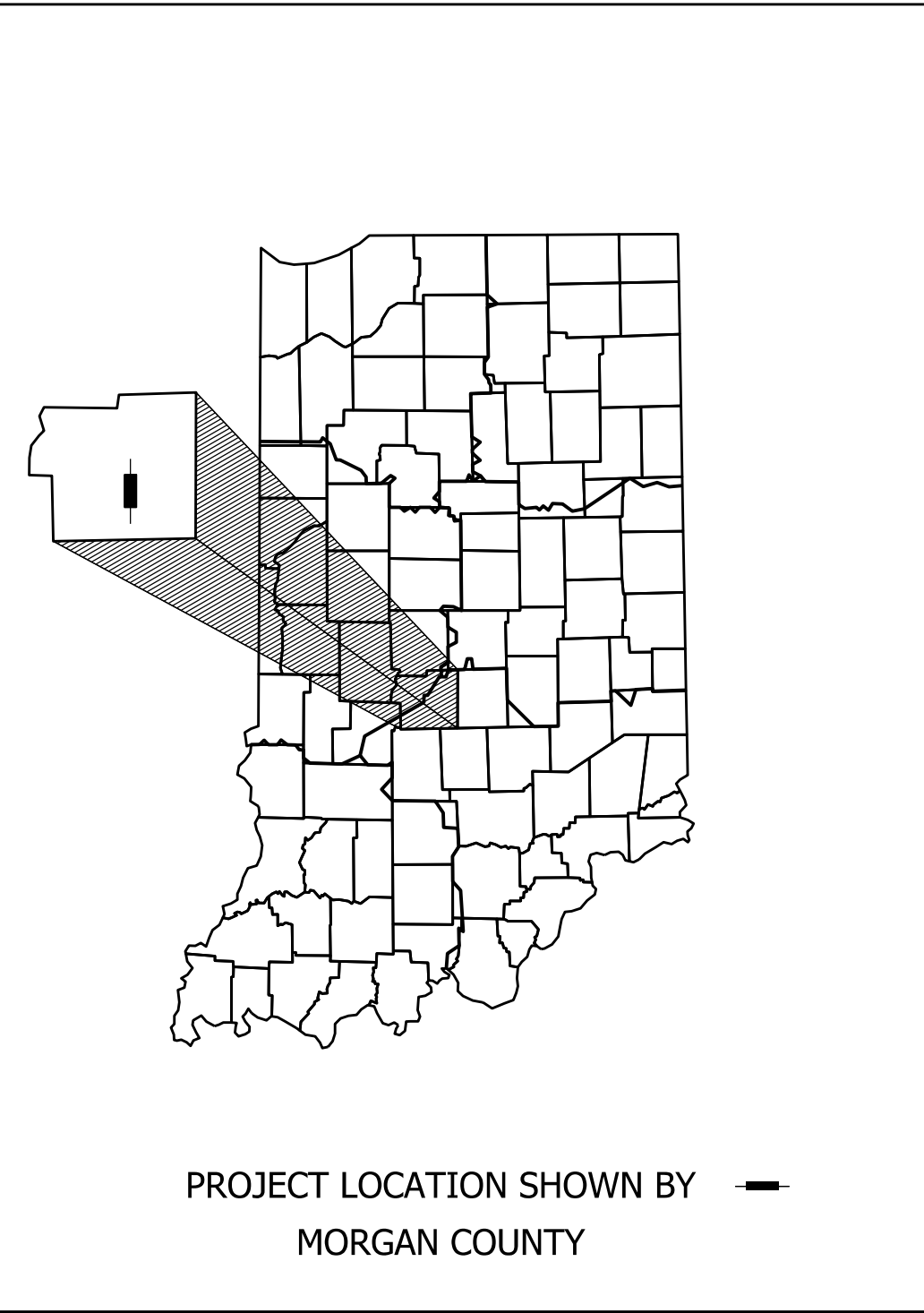
NO ADDITIONAL RIGHT OF WAY
REQUIRED FOR THIS PROJECT

R/W
2001541 CONST.

Small Structures & Drains Construction on Pumpkinvine Hill Road
At the South Intersection of SR 67 and SR 39
Section 32, T-12-N, R-1-E, Jefferson Township, Morgan County, Indiana

TRAFFIC DATA - SR 67			
A.A.D.T.	(2023)	7,789	V.P.D.
A.A.D.T.	(2043)	8,277	V.P.D.
D.H.V	(2043)	9.91	%
DIRECTIONAL DISTRIBUTION		50.51	%
TRUCKS		15.23%	A.A.D.T.
		15.69%	D.H.V.

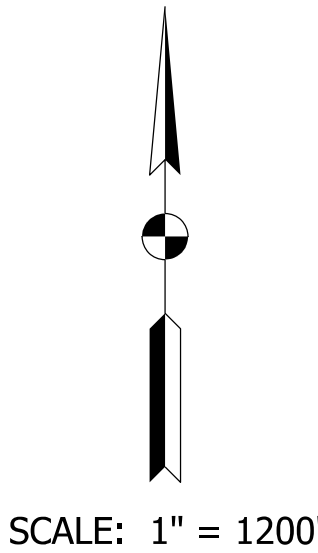
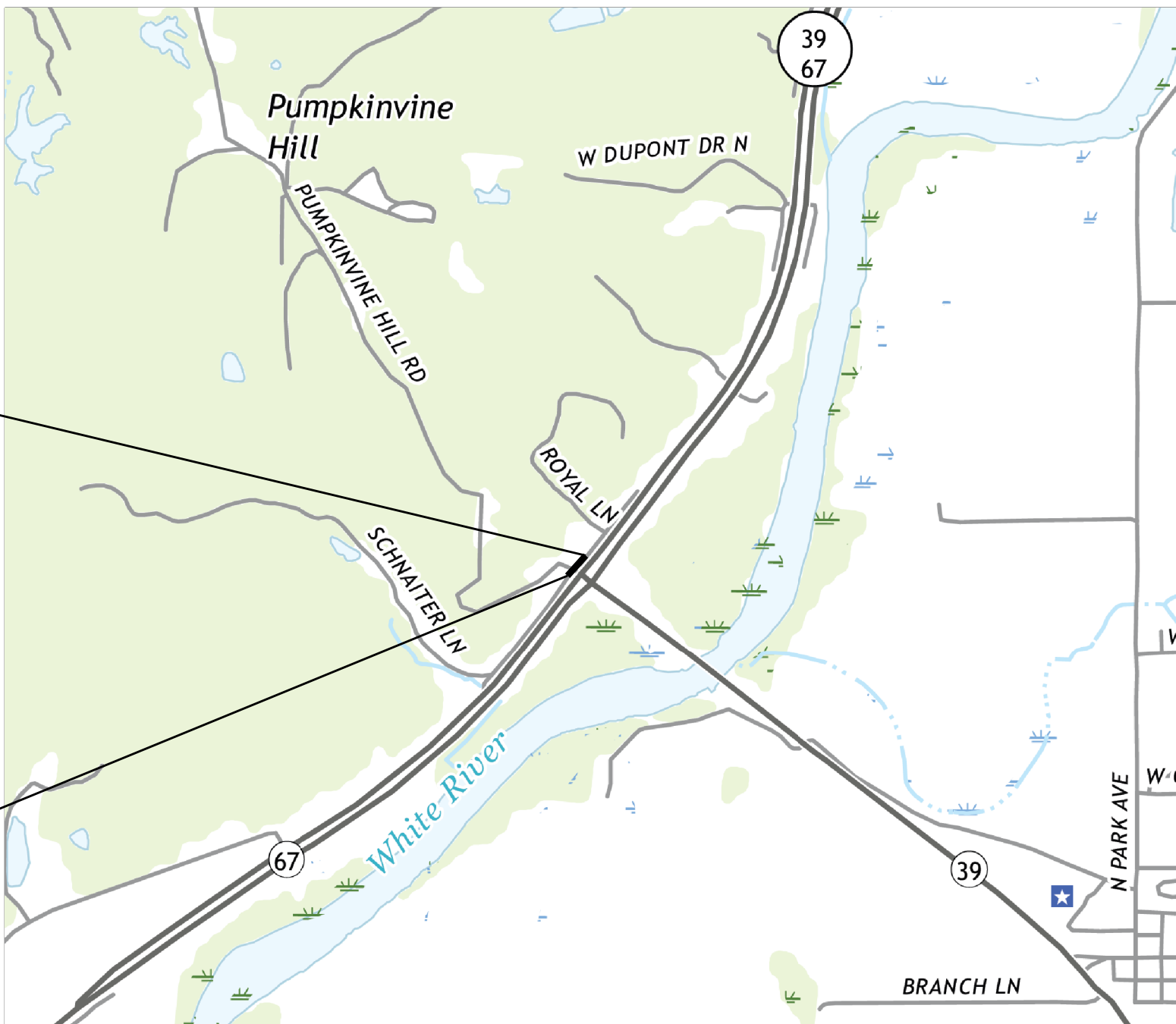
DESIGN DATA - PUMPKINVINE HILL ROAD	
DESIGN SPEED	30 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL 3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 39°26' 09" N LONGITUDE: 86° 27' 10" W

GROSS LENGTH:	0.09 MI.
NET LENGTH:	0.09 MI.
MAX. GRADE:	5.96 %

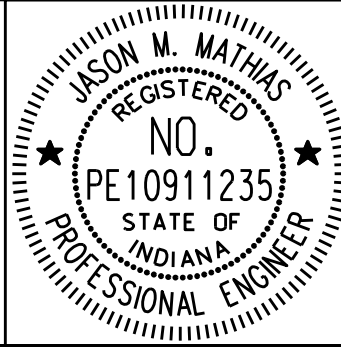
HYDROLOGIC UNIT CODES	
051202011503	



BURGESS & NIPLE
Engineers ■ Architects ■ Planners

251 N. ILLINOIS ST.
CAPITOL CENTER SUITE 920
INDIANAPOLIS, IN 46204
PHONE (317) 237-2760
FAX (317) 237-2755

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS



PLANS PREPARED BY:	BURGESS & NIPLE, INC.	(317) 237-2760 PHONE NUMBER
CERTIFIED BY:	<i>Jason Mathias</i>	10/30/2023 DATE
RECOMMENDED FOR LETTING:	<i>Mark Bailey</i>	04/02/2024 DATE

		DESIGNATION 2001541
		SHEETS 1 of 18
CONTRACT B-41467	PROJECT 2001541	

UTILITIES

MORGAN COUNTY RURAL WATER
KYLE DILLON
1393 E. SHORE DRIVE
MARTINSVILLE, IN 46151
765-342-7370
kdillon@mcrw.org

SPARKLIGHT COMMUNICATIONS
GEORGE MCCORMACK
500 1/2 CENTERCROSS
EDINBURGH, IN 46164
812-272-2348
George.mccormack@cableone.biz

SOUTH CENTRAL INDIANA REMC FIBER
JOBY JORDAN
300 MORTON AVENUE
MARTINSVILLE, IN 46151
765-352-4771
jobyj@sci-fiber.com

SOUTH CENTRAL INDIANA REMC ELECTRIC
TOMMY SCHOOLCRAFT
300 MORTON AVENUE
MARTINSVILLE, IN 46151
765-352-4782
toms@sciremc.com



**Know what's below.
Call before you dig.**

INDIANA UNDERGROUND
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

GENERAL NOTES	
**	THE PLANS SHOW SOME OF THE UTILITIES LOCATED WITHIN THE LIMITS OF THE CONTRACT ACCORDING TO INFORMATION OBTAINED FROM THE VARIOUS UTILITY COMPANIES. THE ACCURACY OF THE PLANS IN THIS RESPECT IS NOT GUARANTEED BY BURGESS & NIPLE, INC.
**	ALL EARTH SHOULDERS AND CUT AND FILL SLOPES SHALL BE PLAIN OR MULCH SEEDDED EXCEPT WHERE OTHERWISE SPECIFIED.
** REPRESENTS GENERAL NOTES REQUIRED	

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3	TYPICAL SECTIONS
4-5	MAINTENANCE OF TRAFFIC
6	PLAN AND PROFILE SHEET
7	APPROACH DETAIL
8	CULVERT DETAILS
9	EROSION CONTROL DETAILS
10	SIGNAL DETAIL & PAVEMENT MARKING PLAN
11	SIGNAL & PAVEMENT MARKING TABLE
12	APPROACH TABLE
13	STRUCTURE DATA TABLE & PIPE MATERIAL TABLE
14-18	CROSS SECTIONS

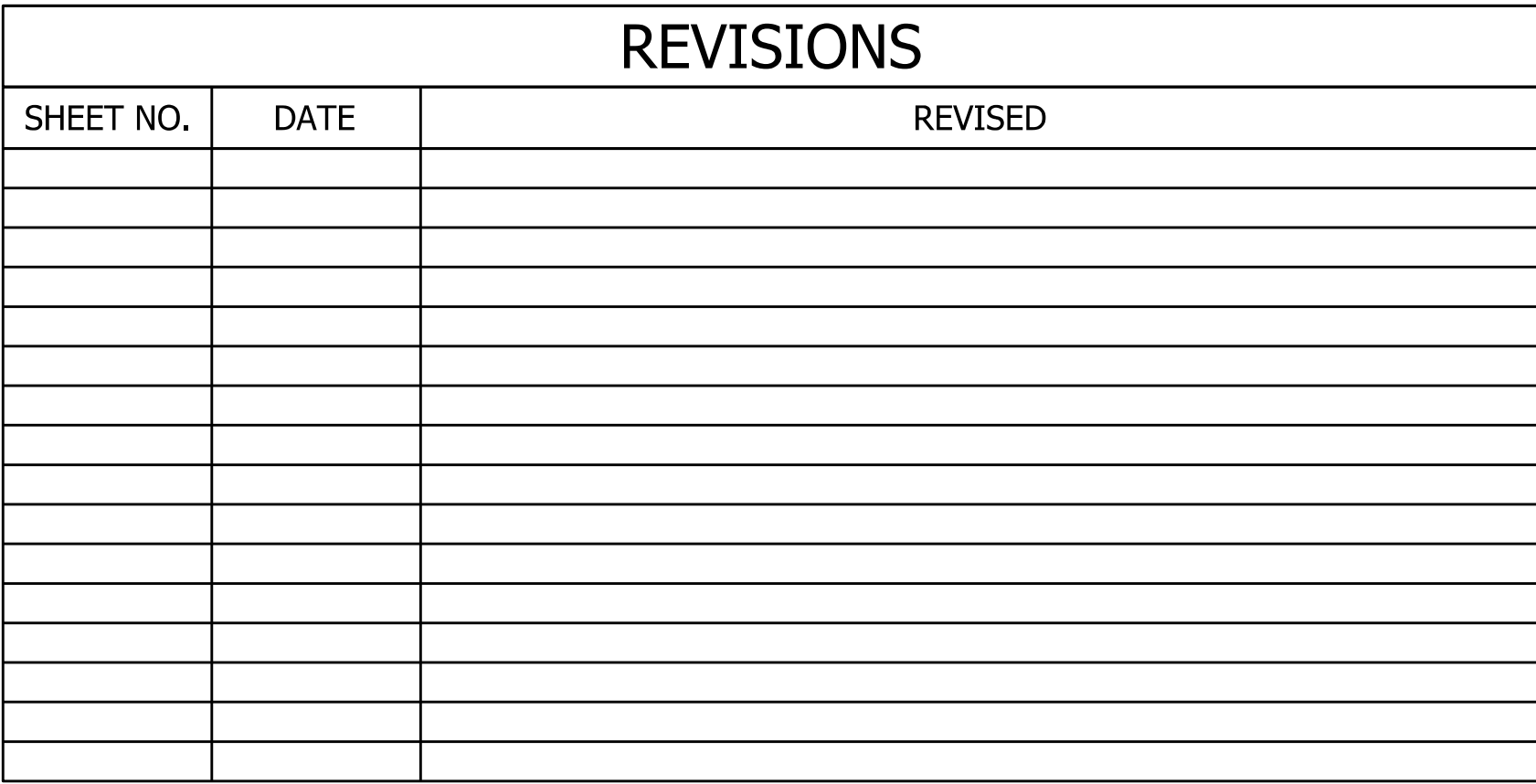


Diagram 100: Pumpkinnvine Hill Road and Royal Lane

North Arrow

PUMPKINNVINE HILL ROAD

ROYAL LANE

SIGN

SIGN

SIGN

64.1'

43.0'

17.2'

11.6'

N: 1,525,718.3083
E: 3,130,655.1540
STA. 201+09.49 "S-1", 9.57' Rt.
MAG NAIL IN PAVEMENT

Diagram 101: Royal Lane and unnamed road

North Arrow

ROYAL LANE

SIGN

SIGN

PWP

59.7'

33.1'

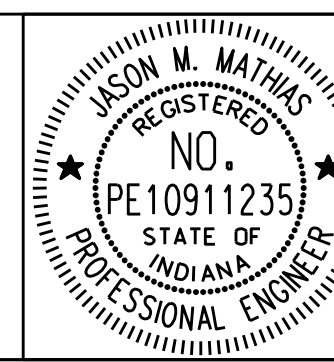
12.1'

33.4'

3.6'

3.0'

N: 1,526,162.8800
E: 3,130,959.3948
STA. 206+47.89 "S-1", 13.73' Lt.
MAG NAIL IN PAVEMENT

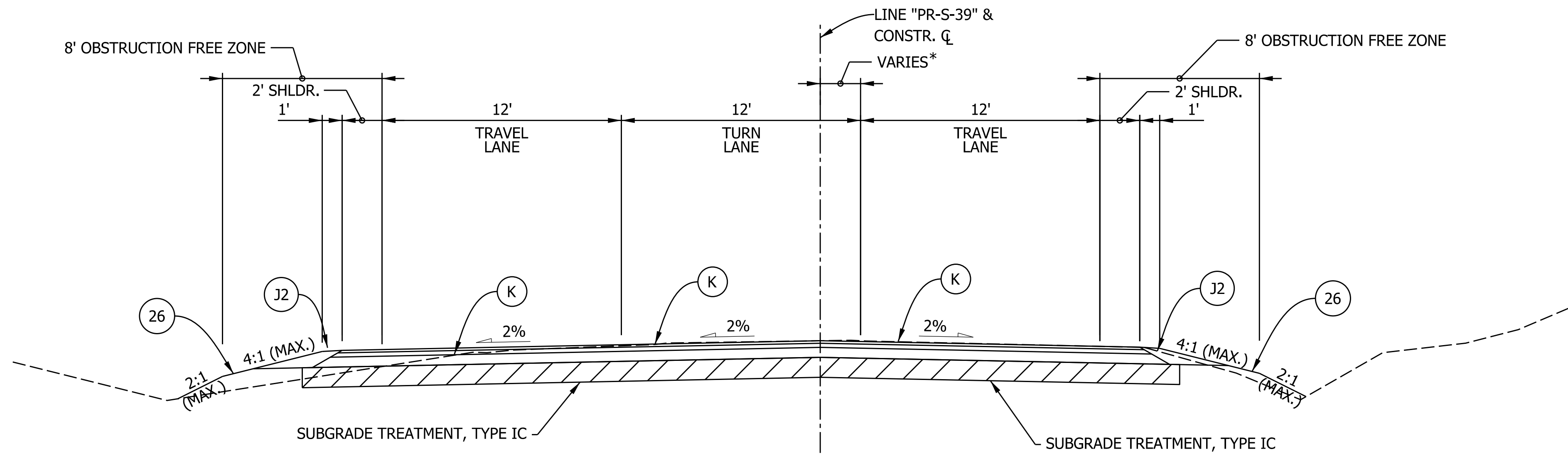


RECOMMENDED FOR APPROVAL			10/30/2023
	DESIGN ENGINEER		DATE
	DESIGNED: MJS	DRAWN: MJS	
	CHECKED: JMM	CHECKED: JMM	

INDEX SHEET

SCALE	BRIDGE FILE
N/A	N/A
	DESIGNATION
	2001541

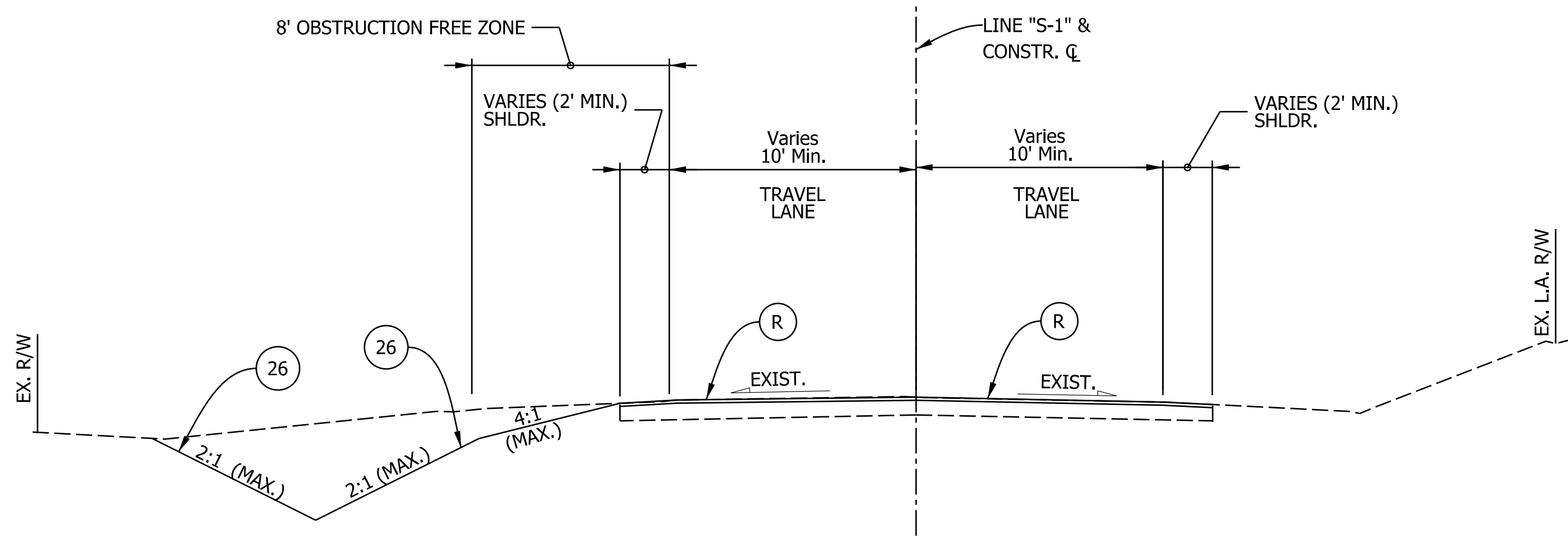
	SHEETS		
	2	of	1
CONTRACT	PROJECT		
B-41467	2001541		



PUMPKINVINE HILL ROAD

STA. 48+14.51 "PR-S-39" TO STA. 48+50.43 "PR-S-39"

*VARIES FROM 0.06' LT. AT STA. 48+14.51 TO 0.91' RT. AT STA. 48+50.43



ROYAL LANE

STA. 201+00.00 "S-1" TO STA. 205+56.60 "S-1"

LEGEND

- (K) FULL DEPTH HMA
165 LBS/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5 mm ON
275 LBS/SYD QC/QA-HMA, 3, 64, INTERMEDIATE, 19.0 mm ON
660 LBS/SYD QC/QA-HMA, 3, 64, BASE, 25.0 mm ON
SUBGRADE TREATMENT TYPE IC ON
GEOTEXTILE FOR PAVEMENT TYPE 2B

(R) 165 LBS/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5 mm ON
1.5" ASPHALT MILLING

(J2) COMPACTED AGGREGATE, NO. 53

(26) SODDING (NURSERY)

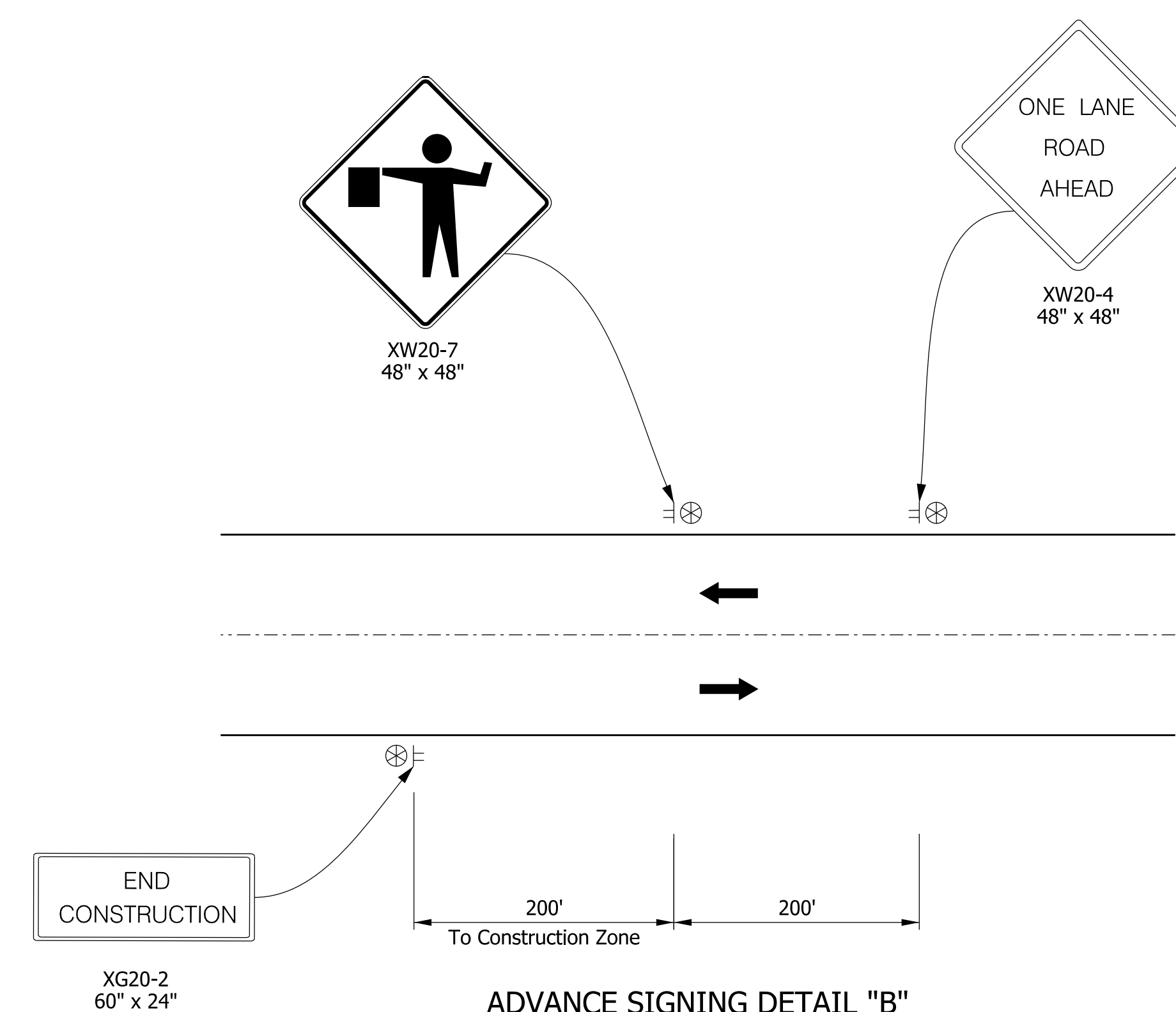
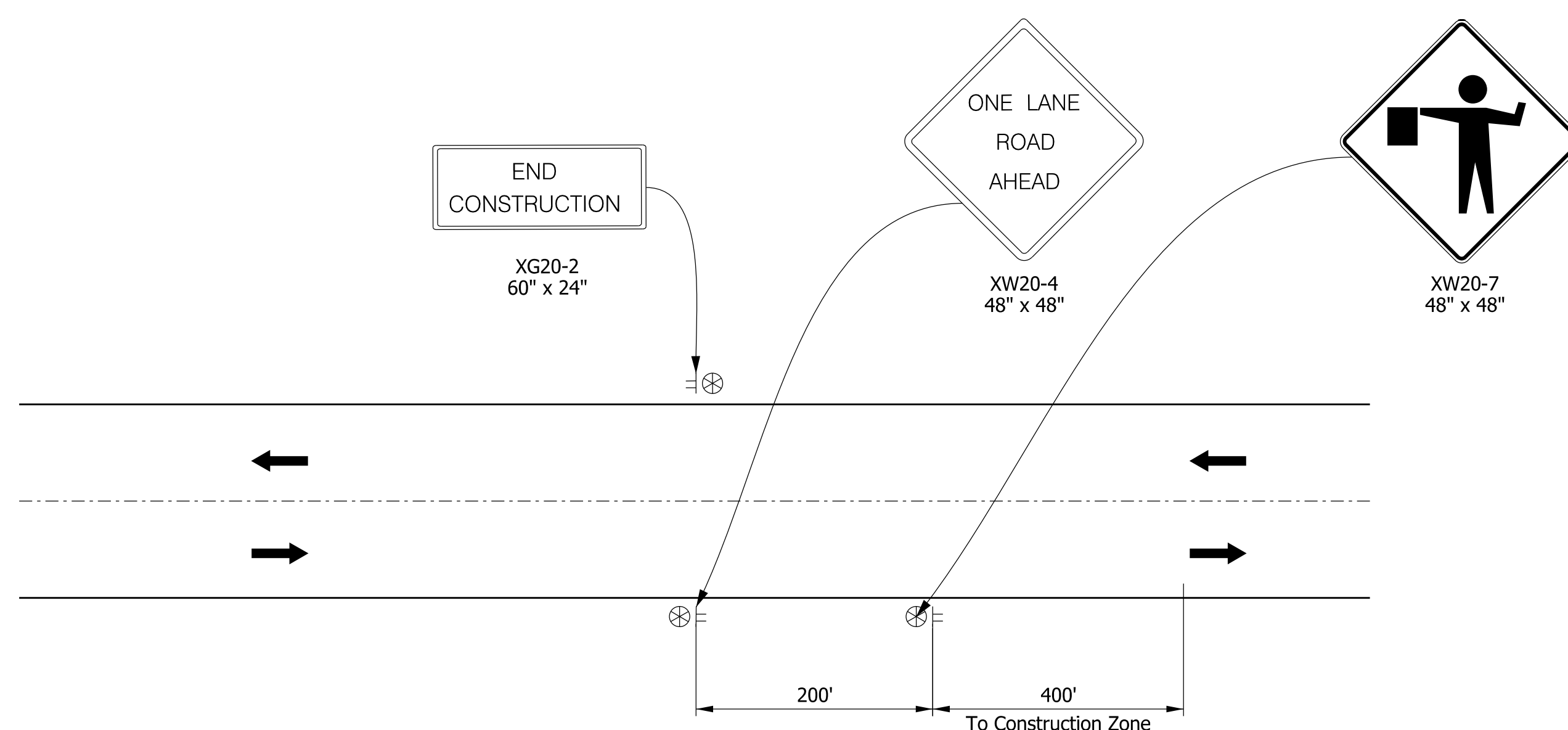
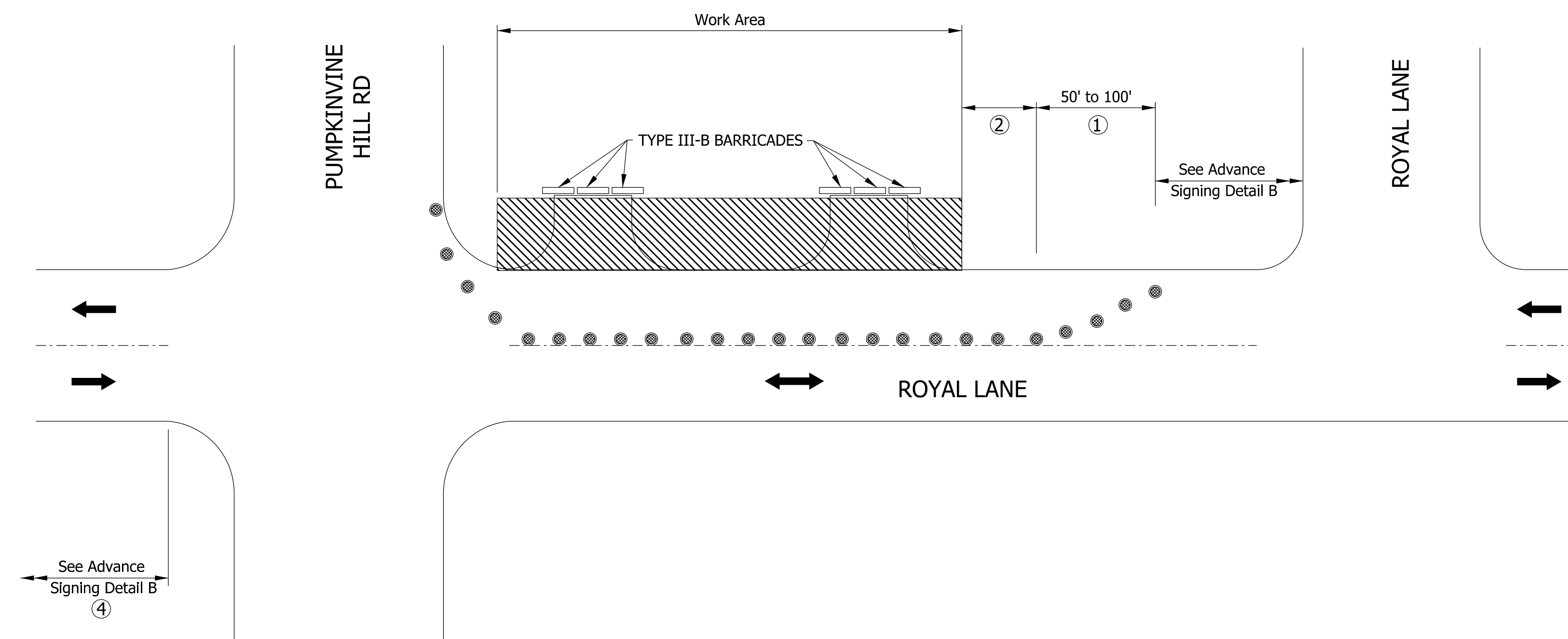
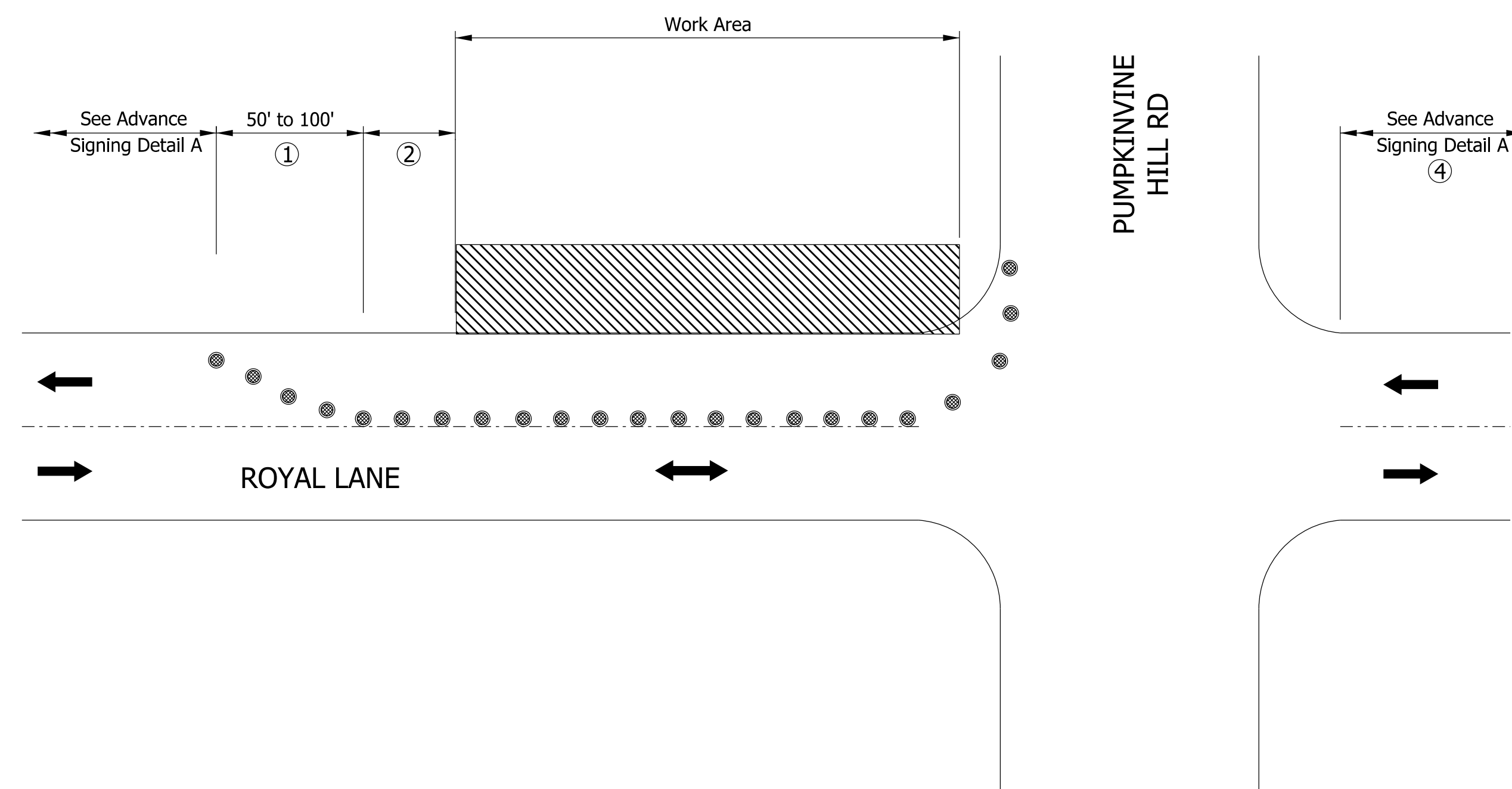


RECOMMENDED FOR APPROVAL	<i>Jason Mathias</i>	10/30/2023
DESIGNED: MJS	DRAWN: MJS	DATE
CHECKED: JMM	CHECKED: JMM	

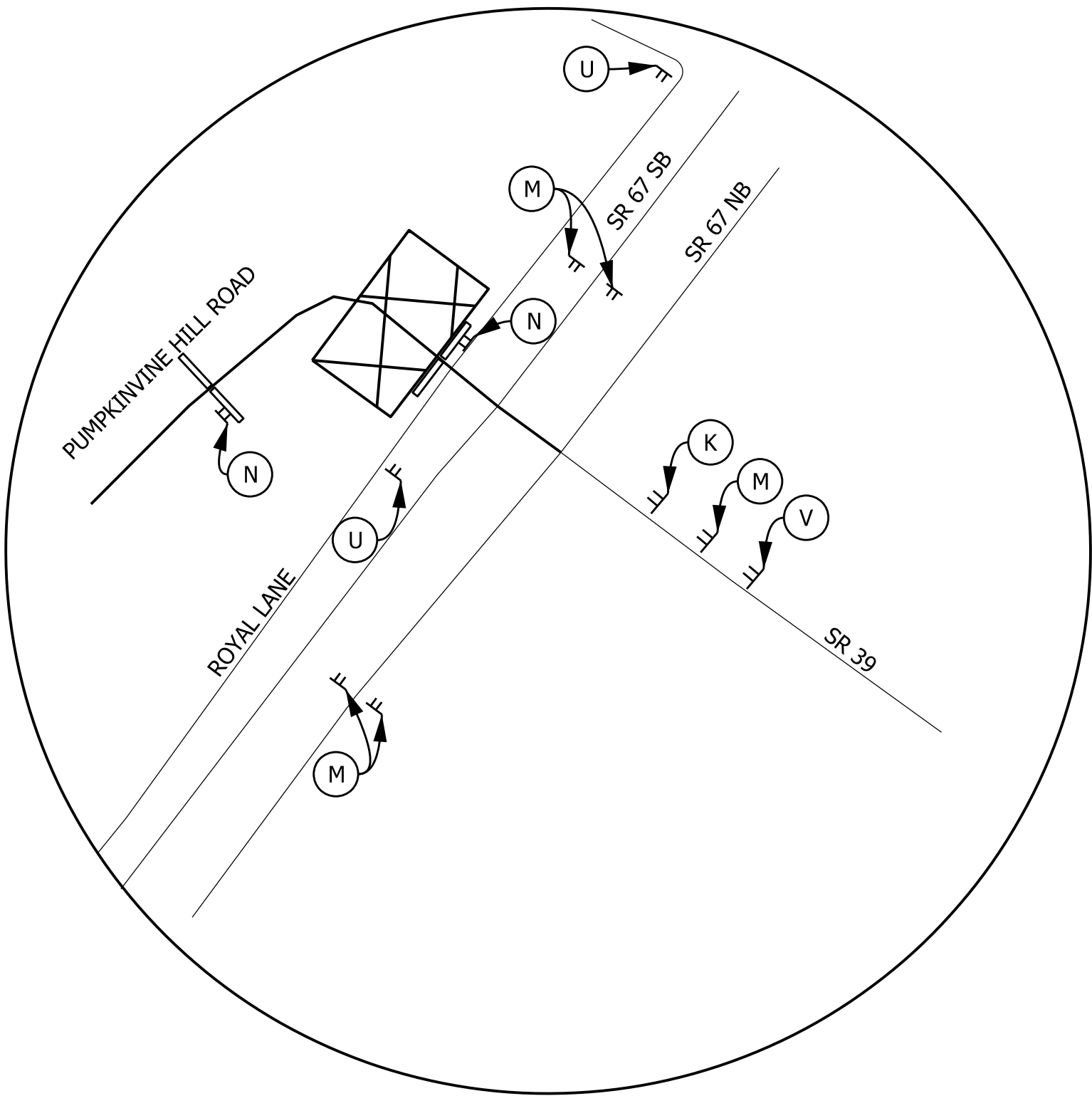
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE	BRIDGE FILE
1" = 1/4"	N/A
	DESIGNATION
	2001541
	SHEETS
	3 of 18
CONTRACT	PROJECT
B-41467	2001541



MOT QUANTITIES SUMMARY TABLE					
Description	Sign Type	Phase 1	Phase 2	Phase 3	Pay Quantity
ROAD CONSTRUCTION AHEAD (XW20-1)	A	0	7	0	
ROAD CLOSED AHEAD (XW20-3)	A	0	3	0	
ROAD CLOSED 500 FT (XW20-3)	A	0	1	0	
ROAD CLOSED 1000 FT (XW20-3)	A	0	1	0	
ONE LANE ROAD AHEAD (XW20-4)	A	2	0	2	
FLAGGER (XW20-7)	A	2	0	2	
ROAD CLOSED - LOCAL TRAFFIC ONLY (R11-3a)	A	0	3	0	
SPEEDING PENALTY (XW2-6-A)	A	0	3	0	
END CONSTRUCTION (XG20-2)	A	2	0	2	
TOTAL		6	18	6	
TOTAL CONSTRUCTION SIGN, A					18 EACH
PUMPKINVINE HILL RD	D	0	6	0	
TOTAL		0	6	0	
TOTAL CONSTRUCTION SIGN, D					6 EACH
ROAD CLOSURE SIGN ASSEMBLY		0	6	0	6 EACH
BARRICADE, III-B		0	216	112	216 LFT



DETAIL "A"

LEGEND



PUMPKINVINE
HILL RD

(K)

XW20-3
48" x 48"



(L)

XW20-3
48" x 48"



PUMPKINVINE
HILL RD

(M)

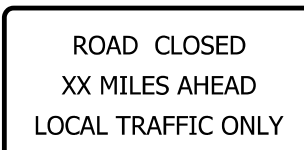
XW20-3
48" x 48"



W/ 2 TYPE III-B
BARRICADES

(N)

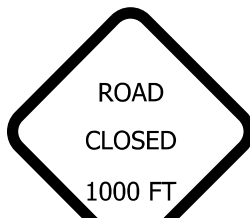
R11-2
48" x 30"



W/ 1 TYPE III-B
BARRICADES

(R)

R11-3a
60" x 30"



(S)

XW20-3
48" x 48"



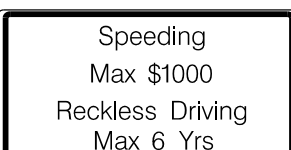
(T)

XW20-3
48" x 48"



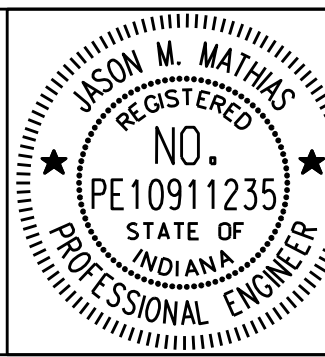
(U)

XW20-1
48" x 48"



(V)

XW2-6-A
78" x 42"



RECOMMENDED
FOR APPROVAL

Jason Mathias
DESIGN ENGINEER

10/30/2023
DATE

DESIGNED: MJS

DRAWN: MJS

CHECKED: JMM

CHECKED: JMM

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2

SCALE

N.T.S.

BRIDGE FILE

N/A

DESIGNATION

2001541

SHEETS

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CONTRACT

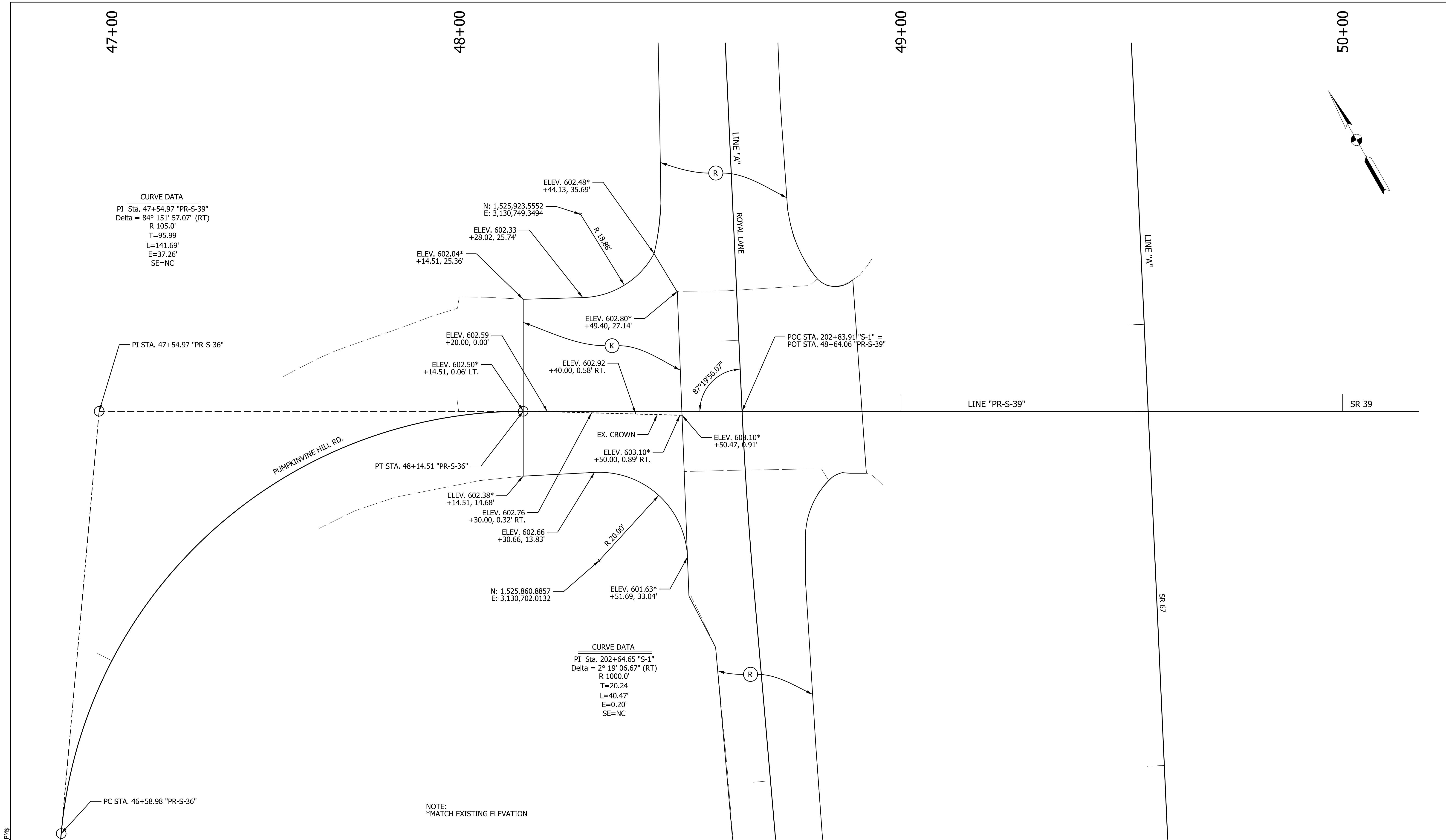
B-41467

PROJECT

2001541

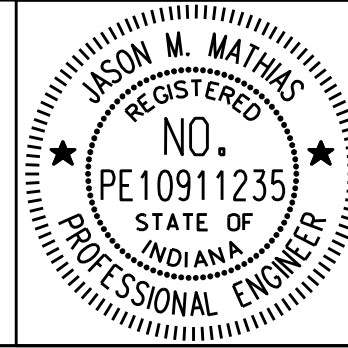
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Model: _MODEL_



LEGEND	
(K)	FULL DEPTH HMA 165 LBS/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5 mm ON 275 LBS/SYD QC/QA-HMA, 3, 64, INTERMEDIATE, 19.0 mm ON 660 LBS/SYD QC/QA-HMA, 3, 64, BASE, 25.0 mm ON SUBGRADE TREATMENT TYPE IC ON GEOTEXTILE FOR PAVEMENT TYPE 2B

(R)	165 LBS/SYD QC/QA-HMA, 3, 64, SURFACE, 9.5 mm ON 1.5" ASPHALT MILLING
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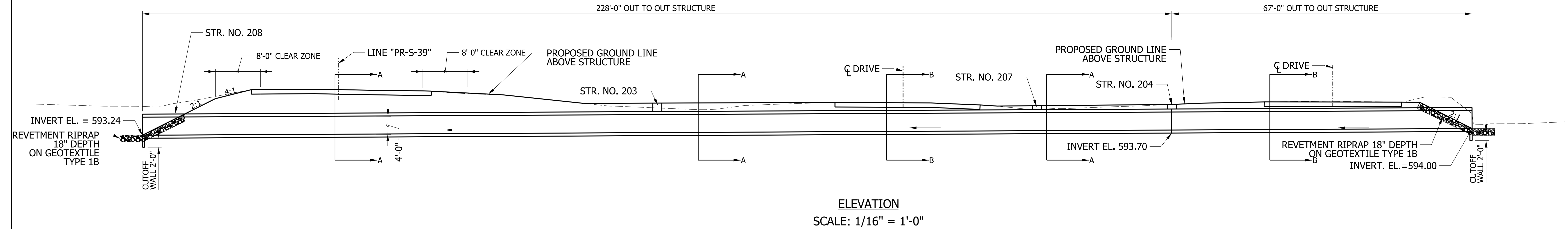


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DESIGN ENGINEER		DATE
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CHECKED: JMM	CHECKED: JMM	

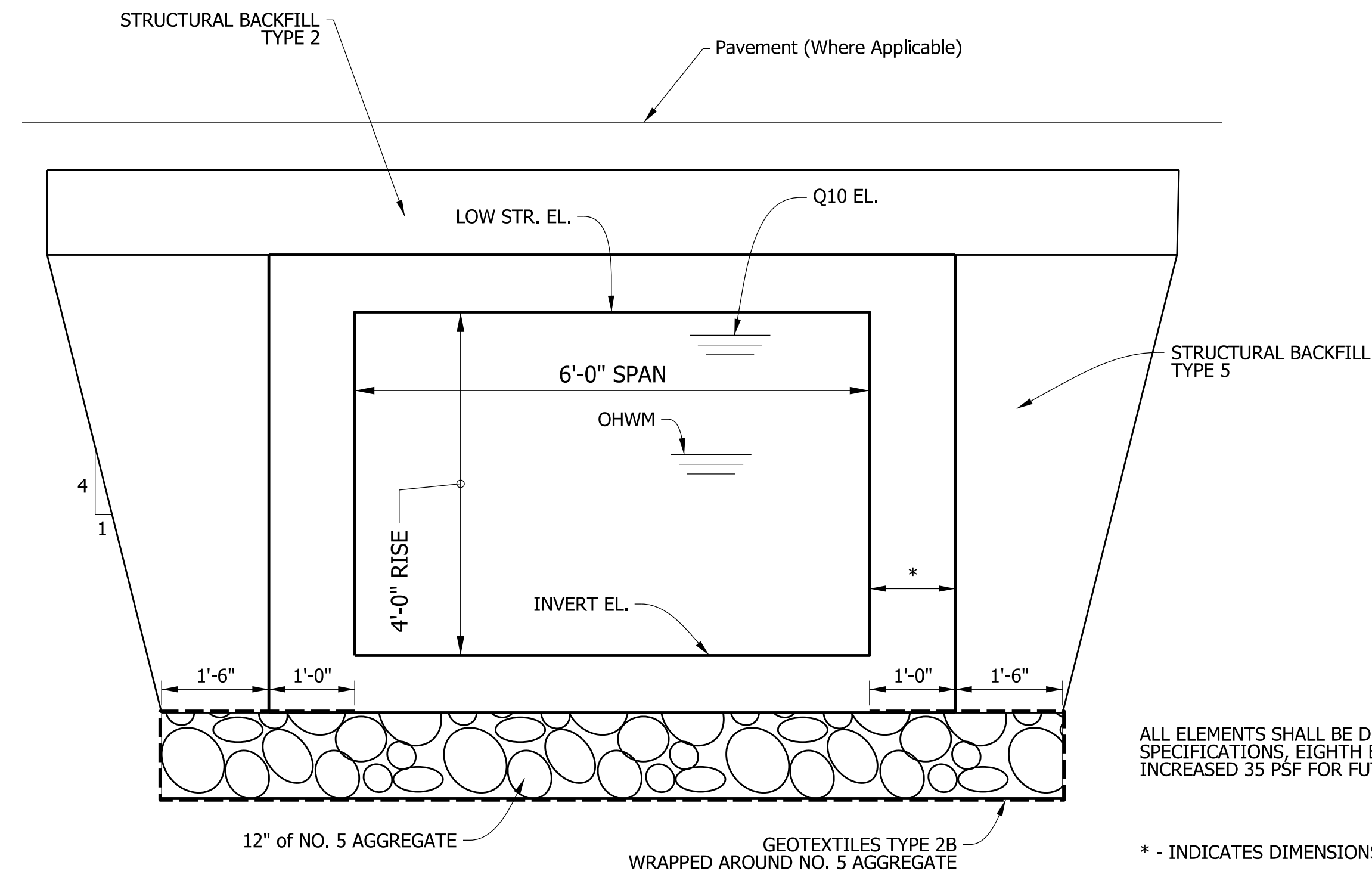
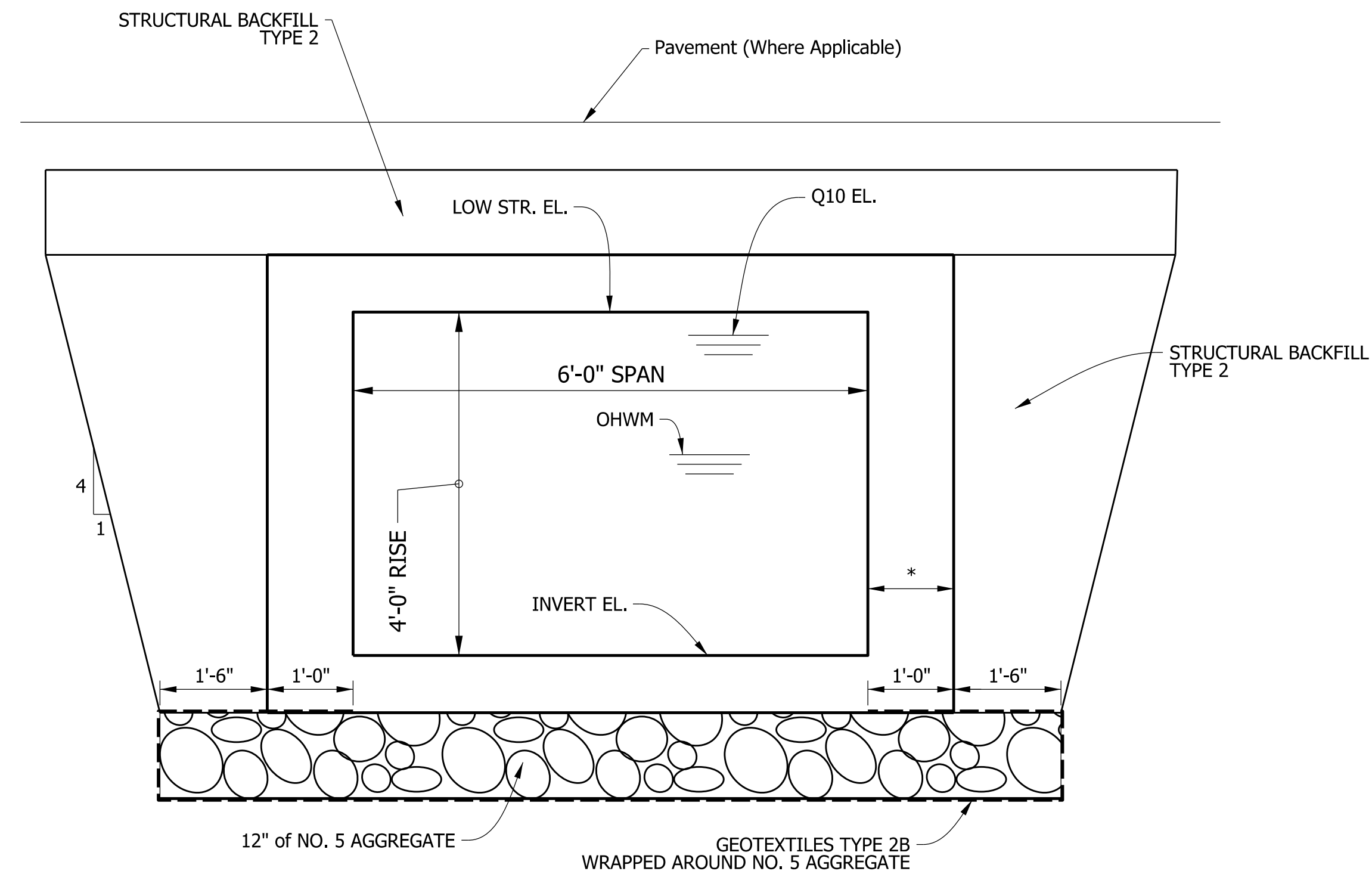
INDIANA DEPARTMENT OF TRANSPORTATION
APPROACH DETAIL PUMPKINVINE HILL RD.

SCALE 1"= 10'	BRIDGE FILE N/A
	DESIGNATION 2001541
	SHEETS 7 of 18
CONTRACT B-41467	PROJECT 2001541

Plot: 10/30/2023 7:44 PM SAM_PWS
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Model: _MODEL_



SOIL PARAMETERS	
Factored Bearing Resistance, q_r (psf)	2160
Resistance Factor, ϕ	0.45
Nominal Bearing Resistance, Q_n (psf)	4800
Friction Angle between wingwall and soil backfill (Type II Backfill), δ	20°
Friction Factor between the footing and foundation soil, f	N/A
Cohesion of the foundation soil, C (psf)	N/A
Adhesion of the foundation soil, C_a (psf)	N/A
Angle of Internal Friction of the foundation soil, ϕ	29°



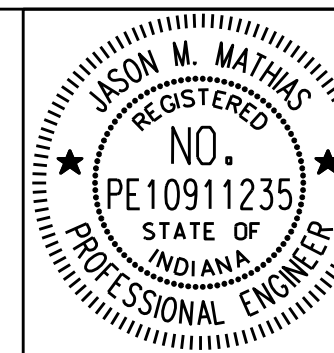
HYDRAULIC DATA TABLE		
ITEM	UNIT	PROPOSED STRUCTURE
DRAINAGE AREA	Ac	84
Q10 BACKWATER	ft	3.12
Q10 VELOCITY	ft/sec	5.33
WATERWAY OPENING BELOW Q100	Sft	18.00
MIN. LOW STR. ELEV.	ft	597.59
Q10 HEADWATER ELEV.	ft	597.79
Q10 DISCHARGE	cfs	96
ROADWAY OVERFLOW	Sft	0

ALL ELEMENTS SHALL BE DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION (2017), AND ALL SUBSEQUENT INTERIM SPECIFICATIONS. DEAD LOAD INCREASED 35 PSF FOR FUTURE WEARING SURFACE.

CONTRACTOR SHALL VERIFY THE EXISTING FLOWLINE ELEVATION TO SET THE APPROPRIATE SUMP DEPTH.

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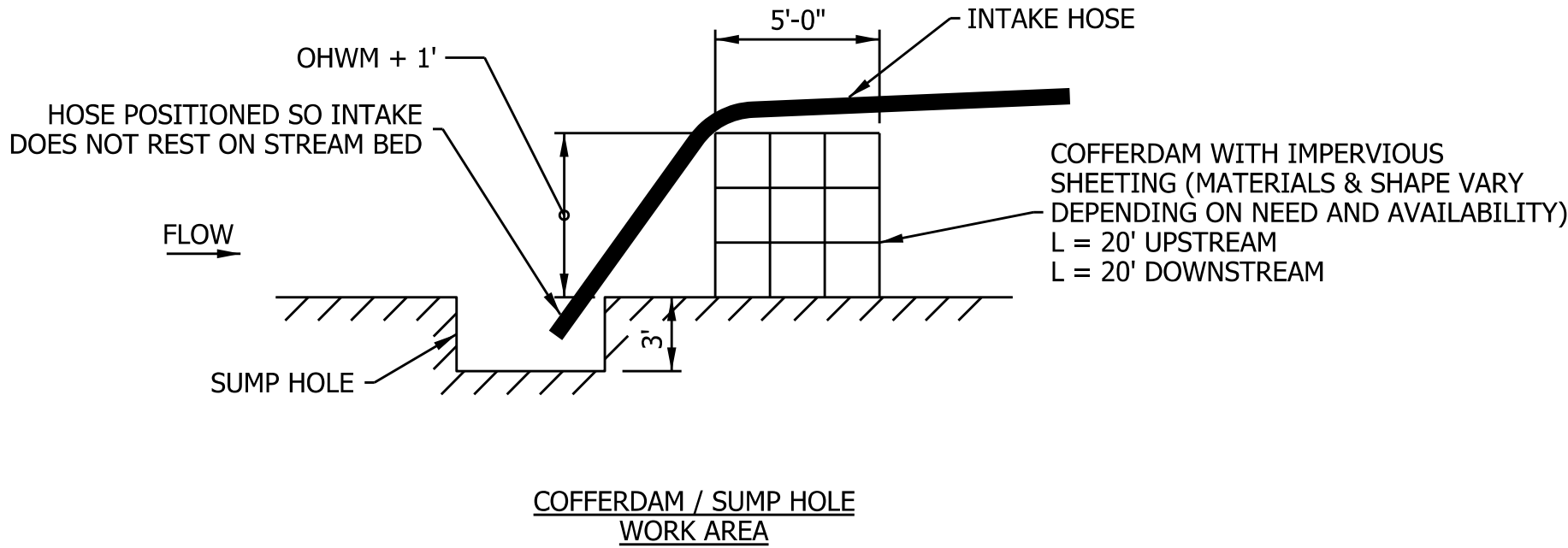
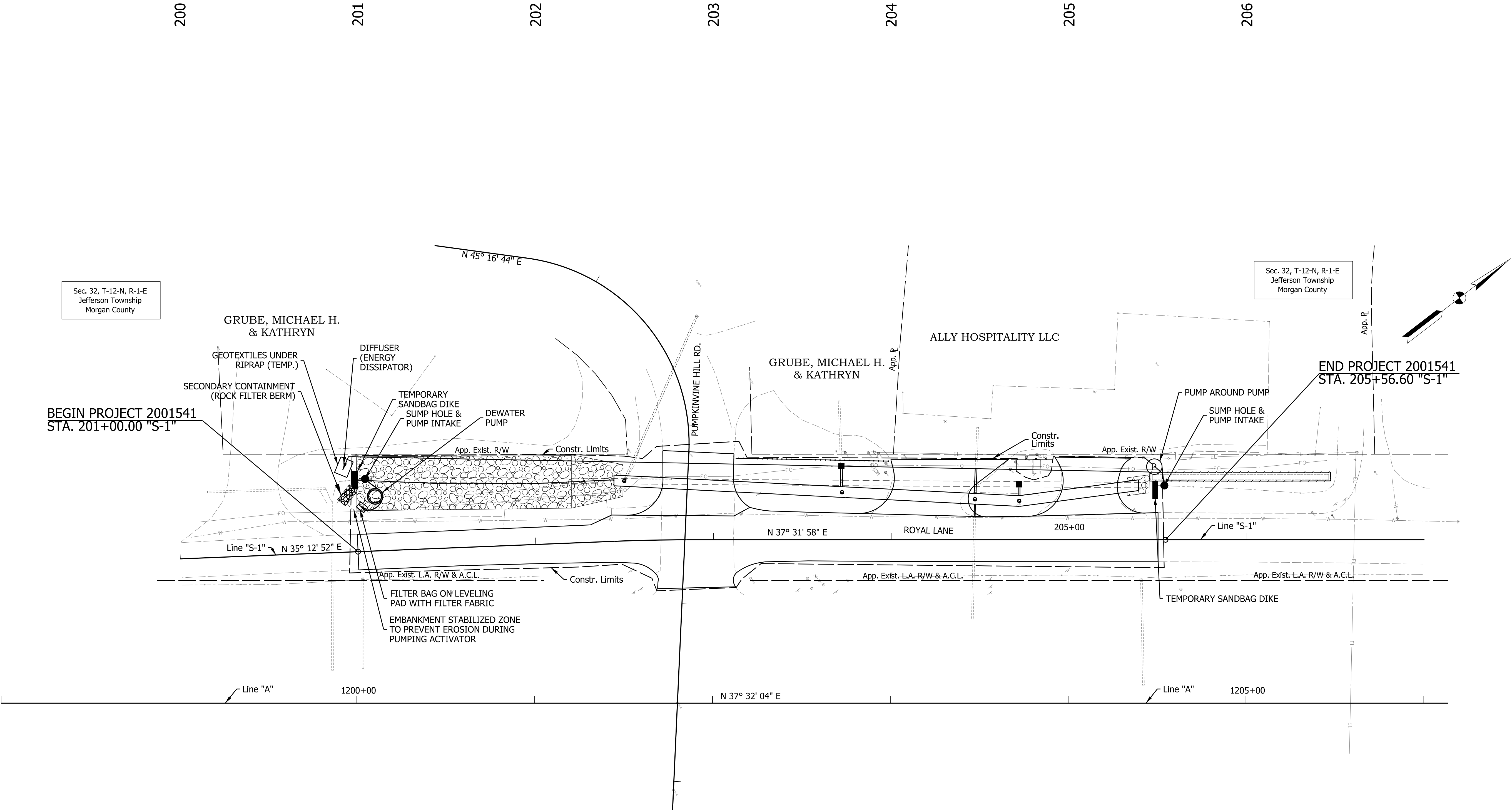
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Model: _MODEL_



RECOMMENDED FOR APPROVAL	<i>Jason Mathias</i>	10/30/2023
DESIGNED: MJS	DRAWN: MJS	DATE
CHECKED: JMM	CHECKED: JMM	

INDIANA DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS 6'-0" SPAN x 4'-0" RISE

SCALE AS NOTED	BRIDGE FILE N/A
	DESIGNATION 2001541
	SHEETS 8 of 18
CONTRACT B-41467	PROJECT 2001541



Erosion Control Summary Table					
Stations	Lt/Rt	Temporary Filter Sock	Erosion Control Blanket	Pump Around	Temporary Check Dam
Sta. 201+00.00 "S-1" to Sta. 205+56.60 "S-1"	Lt			1 EACH	
Sta. 203+12.50 "S-1" to Sta. 203+99.00 "S-1"	Lt	87 LFT			
Sta. 204+67.50 "S-1" to Sta. 204+91.00 "S-1"	Lt	24 LFT			
TOTAL:		111 LFT	SYS	1 EACH	TON

- LEGEND

TEMPORARY SANDBAG DIKE

P

PUMP AROUND PUMP

DEWATER PUMP

FILTER SOCK
-
- RECOMMENDED FOR APPROVAL

Jason Mathias

DESIGN ENGINEER

10/30/2023

DATE

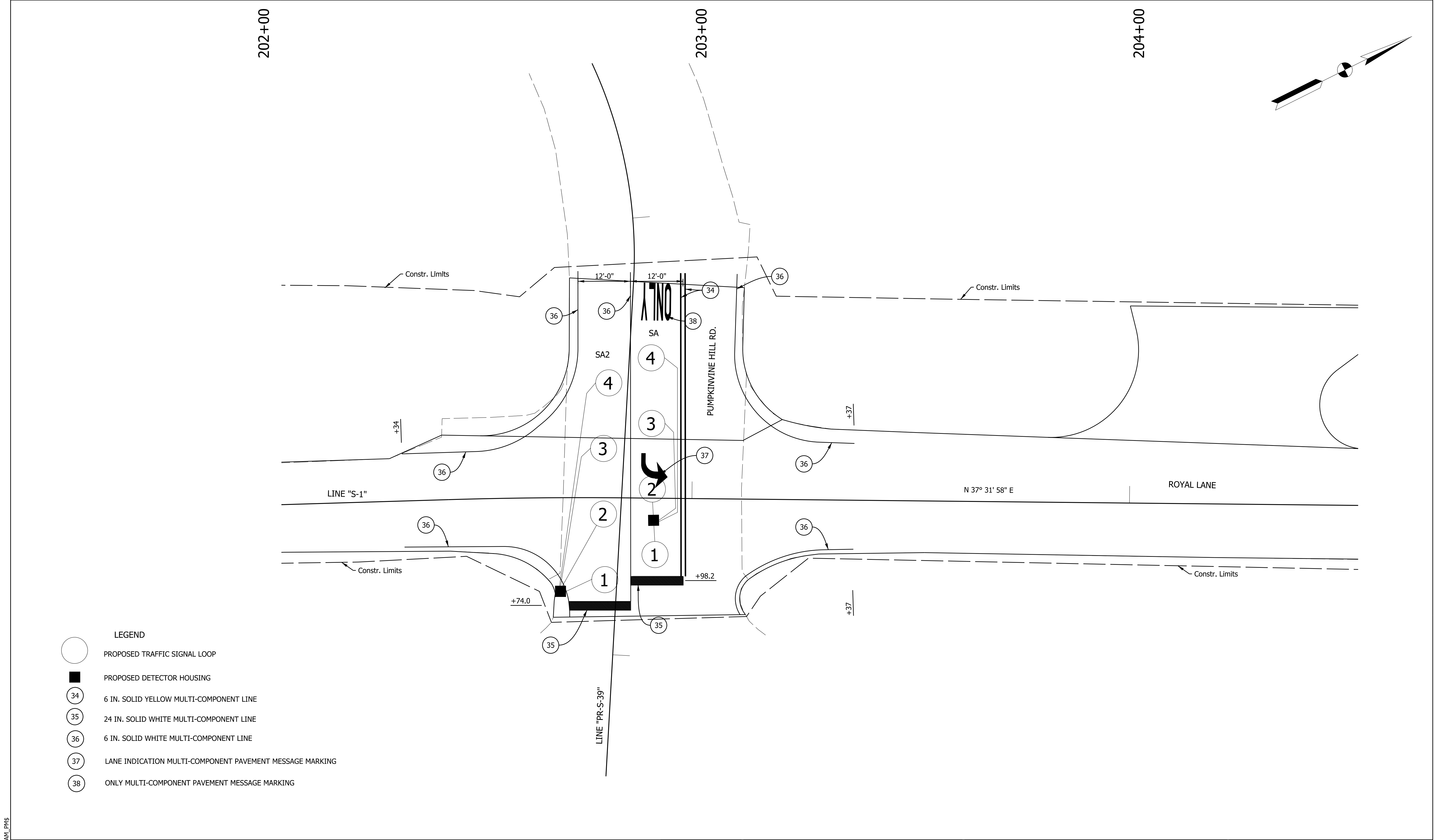
DESIGNED: MJS

DRAWN: MJS

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DEPARTMENT OF TRANSPORTATION

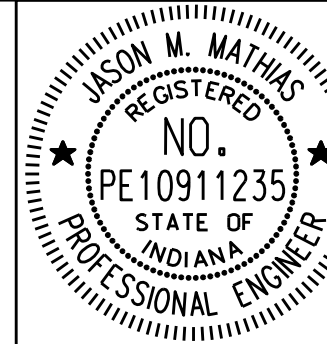
EROSION CONTROL DETAIL
- | | |
|---------------------|------------------------|
| SCALE
1" = 30' | BRIDGE FILE
N/A |
| | DESIGNATION
2001541 |
| | SHEETS
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| CONTRACT
B-41467 | PROJECT
2001541 |
- File: P:\PR58957\Cadd\CDS\EC-01.dgn
Model: _MODEL_



- LEGEND
- PROPOSED TRAFFIC SIGNAL LOOP
 - PROPOSED DETECTOR HOUSING
 - 34 6 IN. SOLID YELLOW MULTI-COMPONENT LINE
 - 35 24 IN. SOLID WHITE MULTI-COMPONENT LINE
 - 36 6 IN. SOLID WHITE MULTI-COMPONENT LINE
 - 37 LANE INDICATION MULTI-COMPONENT PAVEMENT MESSAGE MARKING
 - 38 ONLY MULTI-COMPONENT PAVEMENT MESSAGE MARKING

Plot: 10/30/2023 8:12 PM \$AM_PWS

File: P:\PR58957\Cadd\CD5\SG-01.dgn
Model: _MODEL_



RECOMMENDED FOR APPROVAL	
<i>Jason Mathias</i>	
DESIGNED: MJS	DRAWN: MJS
CHECKED: JMM	CHECKED: JMM

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGNAL DETAIL AND PAVEMENT MARKINGS	

SCALE 1"= 10'	BRIDGE FILE N/A
	DESIGNATION 2001541
	SHEETS 10 of 18
CONTRACT B-41467	PROJECT 2001541

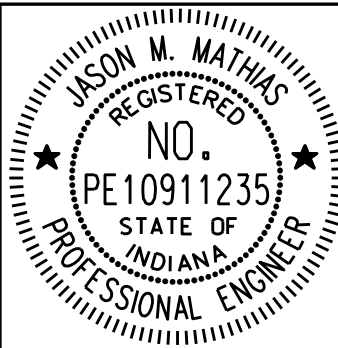
Transverse Markings & Pavement Message Markings										
Start Station	End Station	Transverse Marking, Multi-Component,					PMM, Multi-Component,			Remarks
		Stop Line, White, 24 in	Crosswalk Line, White, 6 in	Solid, Cross-hatch Line, Yellow, 12 in	Solid, Cross-hatch Line, Yellow, 24 in	Solid, Cross-hatch Line, White, 12 in	Lane Indication Arrow	Word (ONLY)	Word (RXR)	
		(ft)	(ft)	(ft)	(ft)	(ft)	(ea)	(ea)	(ea)	
48+82 "PR-S-39"	48+84 "PR-S-39"	12								
48+88 "PR-S-39"	48+90 "PR-S-39"	14								
48+54 "PR-S-39"	48+61 "PR-S-39"						1			
48+15 "PR-S-39"	48+23 "PR-S-39"							1		

[illegible][illegible]

Plot: 10/30/2023 9:11 PM \$AM_PWS

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Model: _MODEL_

PAVEMENT QUANTITIES AND APPROACH TABLE																																																												
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND RW LINE	SURFACE BEYOND RW LINE			GRADE				EXCAVATION		QC/QA-HMA			HMA FOR APPROACHES, TYPE B						HMA MATERIALS		COMPACTED AGGREGATE No. 53, BASE		COMPACTED AGGREGATE No. 53		GEOGRID, TYPE IB	GEOTEXTILE FOR PAVEMENT TYPE 2B	6' PCCP FOR APPROACHES	9' PCCP FOR APPROACHES	MILLING, ASPHALT, 1.5"	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	LIQUID ASPHALT SEALANT	SUBGRADE TREATMENT, TYPE IC	SUBGRADE TREATMENT, TYPE II	REMARKS																				
						COMPACTED AGGREGATE BASE	HMA	CONCRETE							QC/QA-HMA 3.64, SURFACE 9.5 mm	QC/QA-HMA 3.64, INTERMEDIATE, 19.0 mm	QC/QA-HMA 3.64, BASE 25.0 mm	HMA SURFACE, TYPE B	HMA INTERMEDIATE, TYPE B	HMA BASE, TYPE B	2.64, INTERMD. 19.0 mm	3.64, SURFACE, 12.5 mm		HMA FOR RESURFACING, TYPE C	HMA MATERIAL FOR SIDEWALK																HMA MATERIAL FOR TACK COAT	DEPTH		DEPTH																
																																										1	2	3	4	CUT	FILL	165	275	660	165	275	660	330	220	165	4"	6"	VAR.	
																																										%	%	%	%	CYS	CYS	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON
						MAINLINE		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CYS	CYS	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS		SYS	SYS	SYS																	
Sta. 48+12.40 "PR-S-39" to Sta. 48+50.43 "PR-S-39"	Mainline														15	24	59									532				213				36	36	36	192		Pumpkinvine Hill Road																					
Sta. 201+00.00 "S-1" to Sta. 205+50.00 "S-1"	Mainline														109											1312							1312	450		450			Royal Lane																					
Sta. 204+17.30 "S-1", Lt.	Mod. Class IV Drive	66.0	31.2	20, 10					-4.0%	-7.6%	1.8%							15	25	60									180									180																						
Sta. 205+11.50 "S-1", Lt.	Mod. Class IV Drive	43.0	32.0	20, 15					-4.0%	-2.4%	0.6%							11	18	43									129									129																						
TOTAL															124	24	59	26	43	103	0	0	0	0	1844	0	0	0	0	309	213	0	0	1312	486	36	486	192	309																					
															TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS	TONS	SYS	TONS	TONS	TONS	SYS	SYS	SYS	SYS	SYS	LFT	LFT	LFT	SYS	SYS																						



RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	10/30/2023 DATE
DESIGNED: MJS	DRAWN: MJS	
CHECKED: JMM	CHECKED: JMM	

INDIANA DEPARTMENT OF TRANSPORTATION	
APPROACH TABLE	

SCALE N/A	BRIDGE FILE N/A
	DESIGNATION 2001541
	SHEETS 12 of 18
CONTRACT B-41467	PROJECT 2001541

PIPE MATERIAL																
INT. DES.	STRUCTURE NUMBER		200, 201	206, 208												
	PIPE TYPE / SHAPE (CIR or DEF)		CIR	CIR												
	SMOOTH PIPE SIZE		12	12												
	CORRUGATED PIPE SIZE															
CONC.	SEMI-SMOOTH PIPE SIZE															
	RCP/RCHEP (S)	CLASS	II	II												
		D 0.01 RATING	1000	1000												
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			X												
	CORRUGATED PE PIPE, TYPE S (S)*			X												
	PROFILE WALL (RIBBED) PE PIPE (S)*															
	PROFILE WALL (CLOSED) PE PIPE (S)*															
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			26												
	CORRUGATED PP PIPE (S)			X												
	PROFILE WALL PVC PIPE (S)			X												
	SMOOTH WALL PVC PIPE (S)*			X												
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			X												
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	ZINC COATED (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
COR. ALUM. PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	CORRUGATED ALUM. ALLOY (C)	CORR. PROFILE THICKNESS														
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)	RIB PROFILE THICKNESS														
		RIB PROFILE THICKNESS														
	ZINC COATED W/ BPI (SS)	RIB PROFILE THICKNESS														
		RIB PROFILE THICKNESS														
	ALUM. COATED TYPE 2 (SS)	RIB PROFILE THICKNESS														
POLYMER PRECOATED GALVANIZED (SS)	RIB PROFILE THICKNESS															
	RIB PROFILE THICKNESS															
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS														
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)	CORR. PROFILE THICKNESS														
		CORR. PROFILE THICKNESS **														
	STR. PLATE STEEL W/ CFP (C)	CORR. PROFILE THICKNESS **														

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

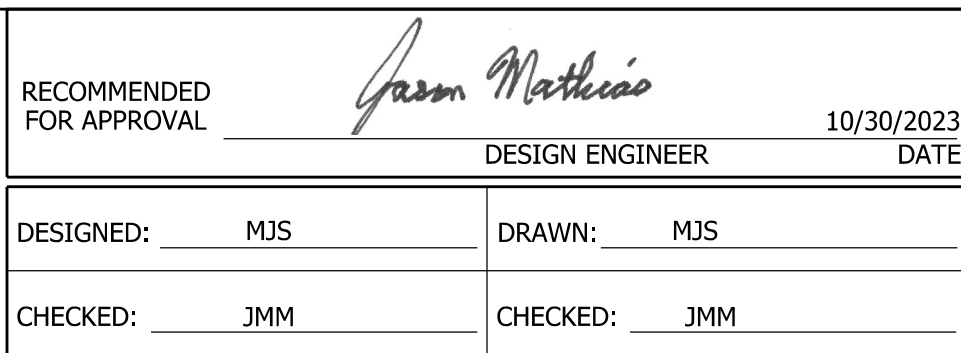
Circular pipe is shown as diameter in inches

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.

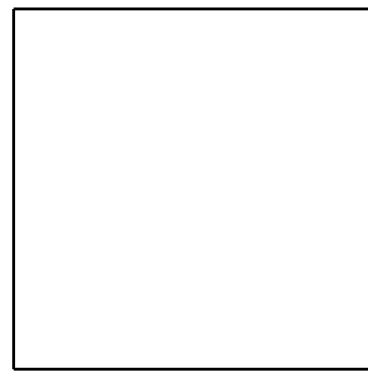
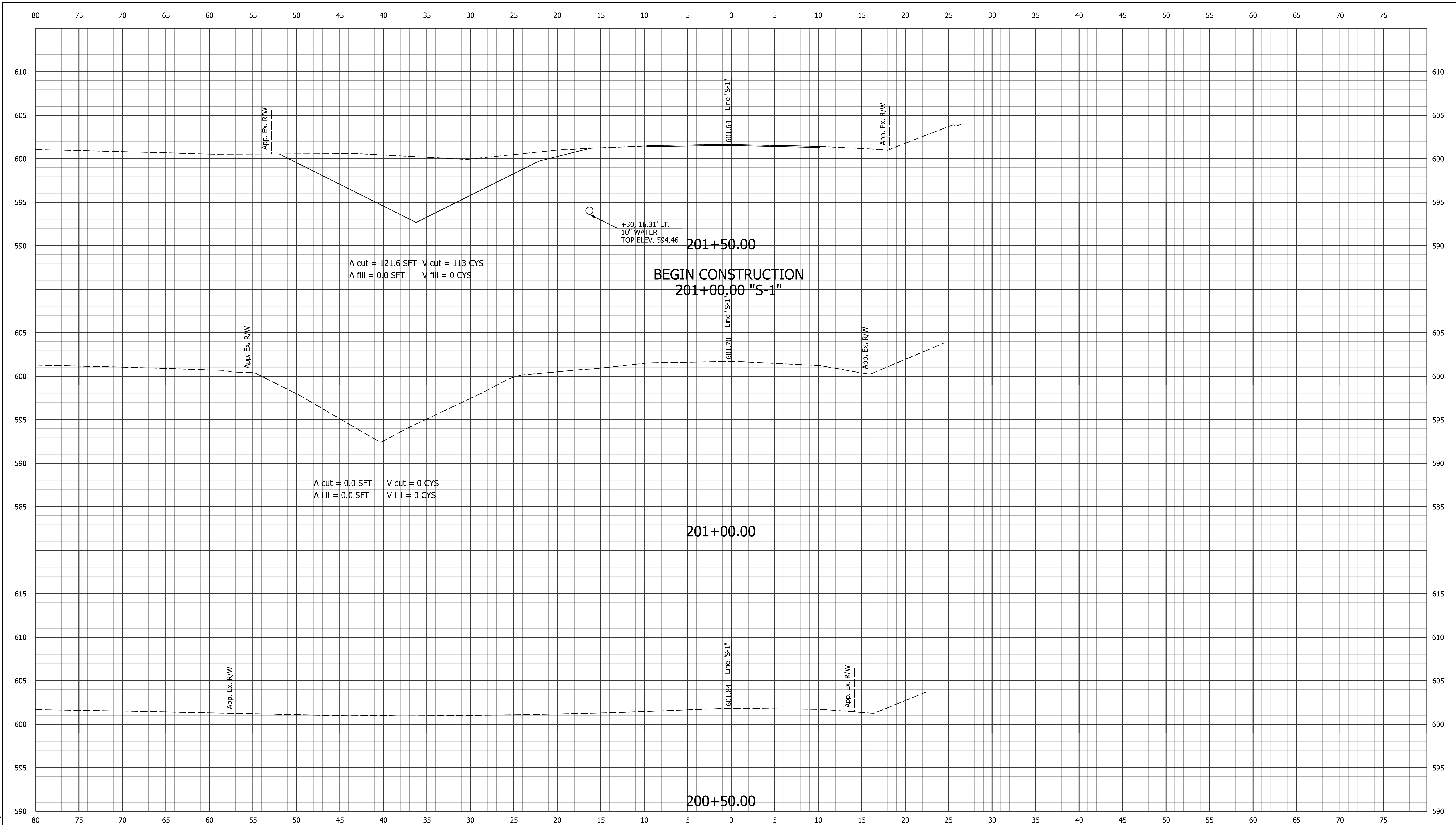
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Model: _MODEL_



STRUCTURE DATA TABLE & PIPE MATERIAL TABLE

SCALE	BRIDGE FILE		
N/A	N/A		
	DESIGNATION		
	2001541		
	SHEETS		
	13	of	18
CONTRACT	PROJECT		
B-41467	2001541		

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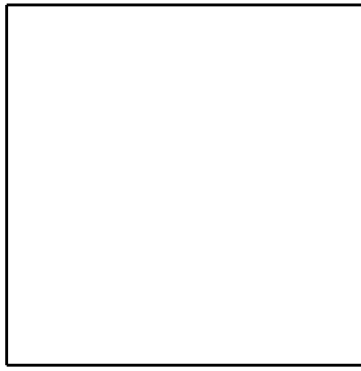
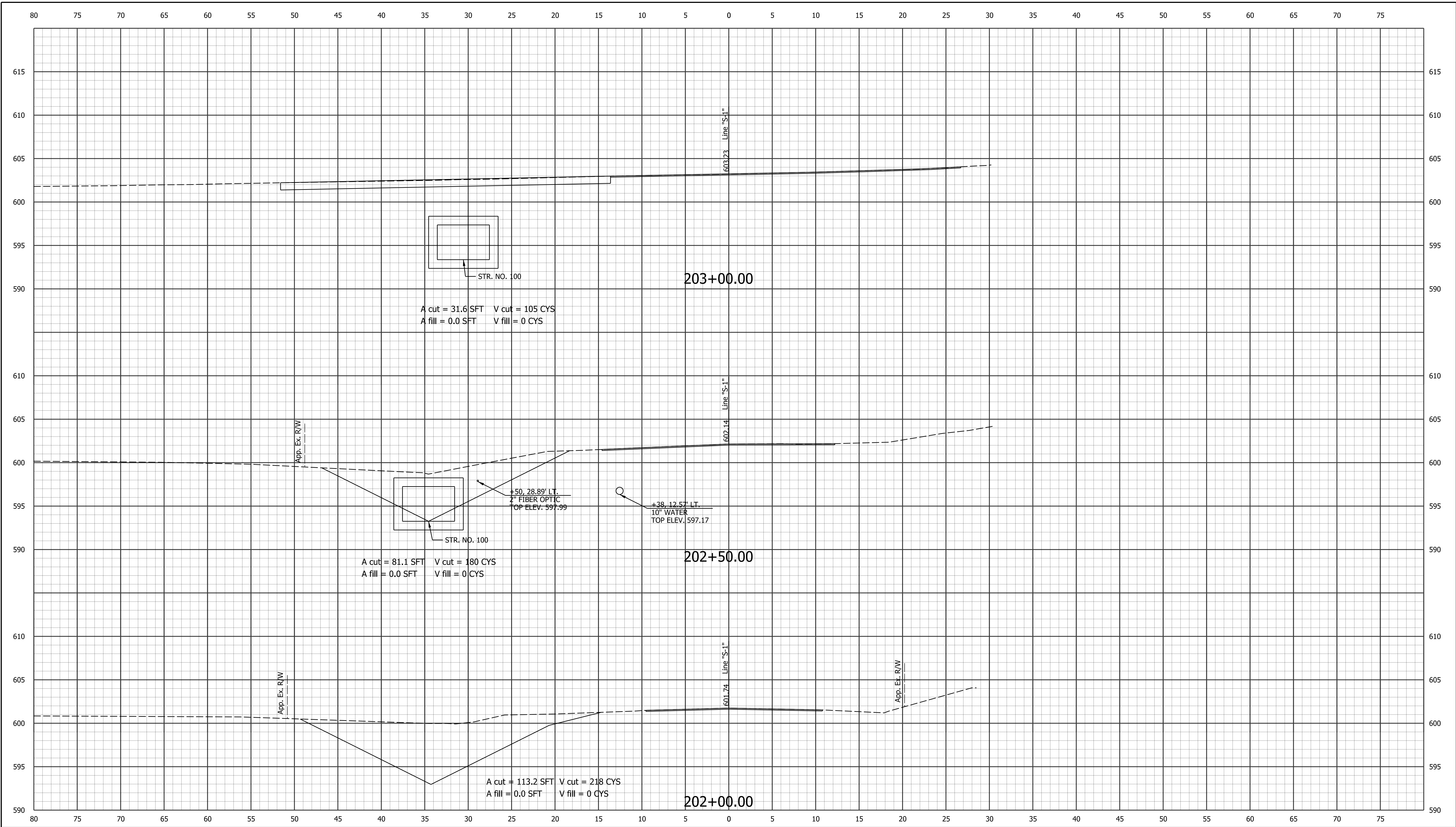


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	
DESIGNED: MJS	DRAWN: MJS
CHECKED: JMM	CHECKED: JMM

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "S-1" STA. 200+50.00 TO STA.201+50.00	

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A	
VERTICAL SCALE 1" = 5'	DESIGNATION 2001541	
SURVEY BOOK	DWG. NO. XS-1	SHEET NO. 14 of 18
CONTRACT B-41467	PROJECT 2001541	

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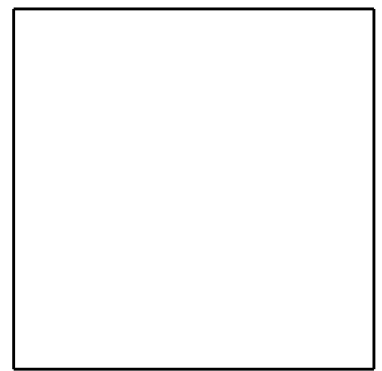
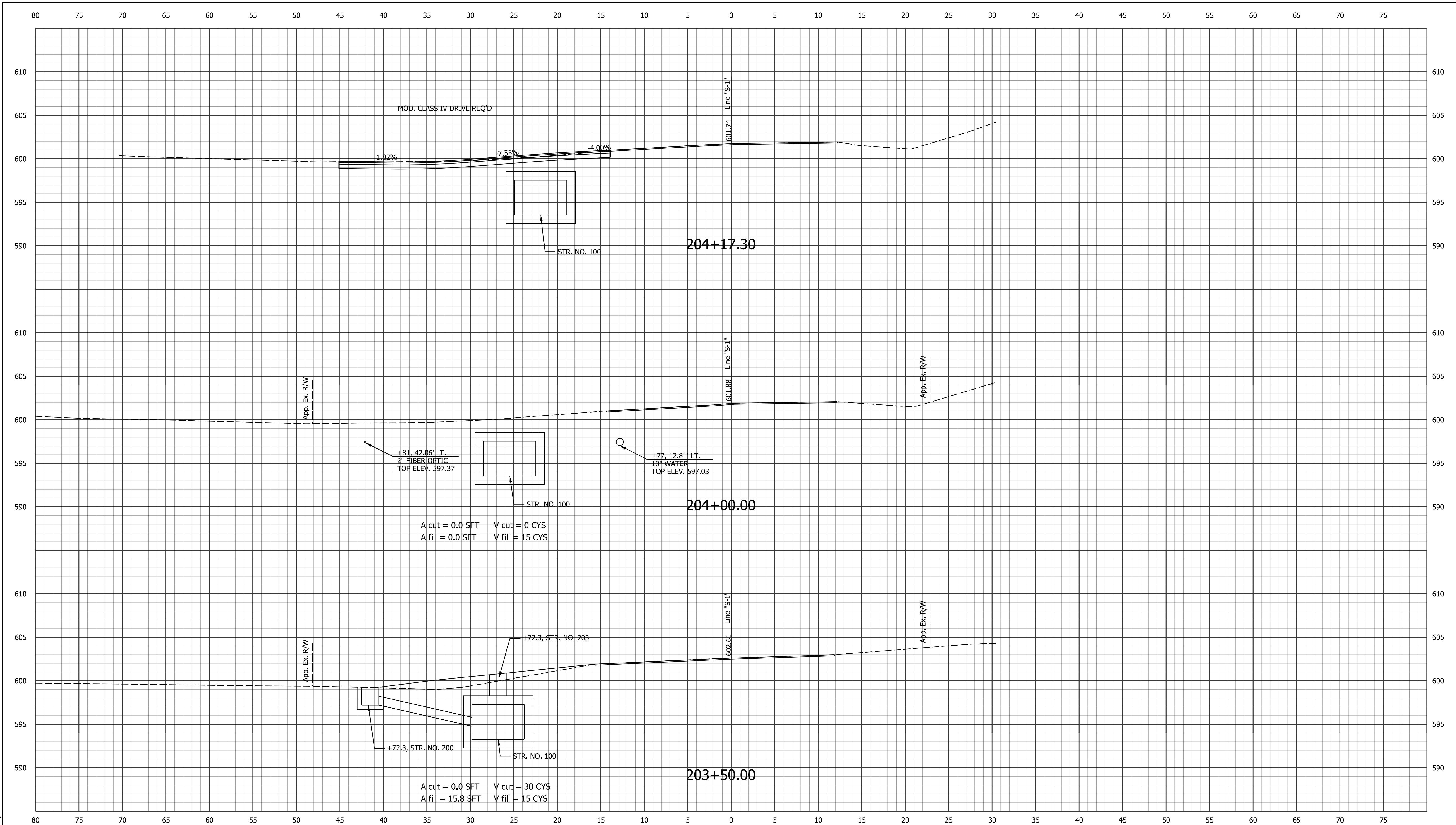


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE	
DESIGNED: MJS	DRAWN: MJS
CHECKED: JMM	CHECKED: JMM

INDIANA	
DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS	
LINE "S-1"	
STA. 202+00.00 TO STA.203+00.00	

HORIZONTAL SCALE	BRIDGE FILE	
1" = 5'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 5'	2001541	
SURVEY BOOK	DWG. NO.	SHEET NO.
	XS-2	15 of 18
CONTRACT	PROJECT	
B-41467	2001541	

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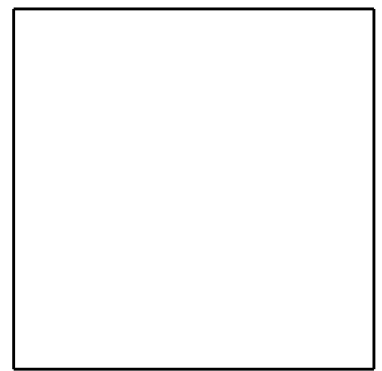
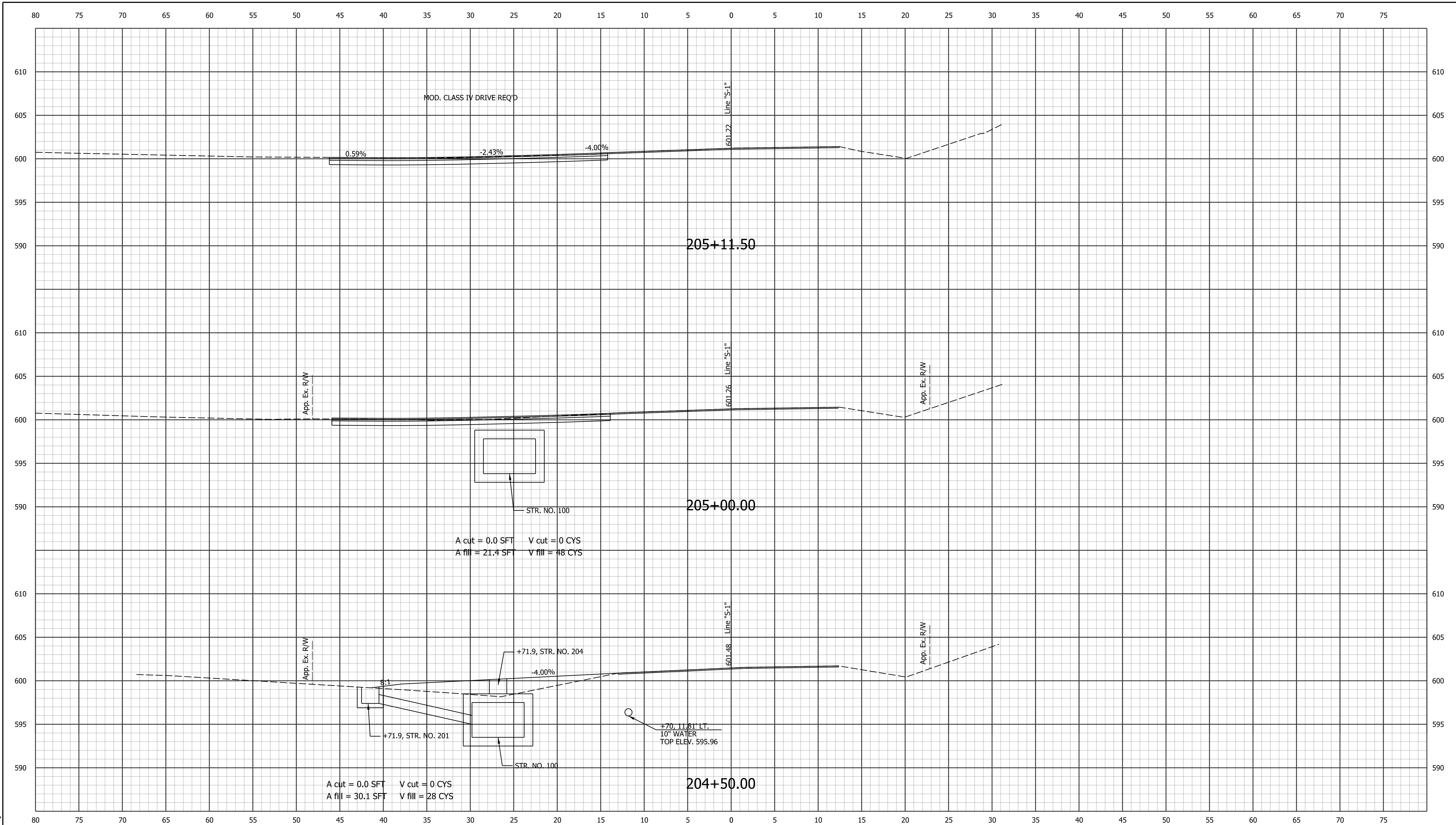
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	
DESIGNED: MJS	DRAWN: MJS
CHECKED: JMM	CHECKED: JMM

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1"
STA. 203+50.00 TO STA.204+17.30

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A	
VERTICAL SCALE 1" = 5'	DESIGNATION 2001541	
SURVEY BOOK	DWG. NO. XS-3	SHEET NO. 16 of 18
CONTRACT B-41467	PROJECT 2001541	

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DESIGN ENGINEER DATE	
DESIGNED: MJS	DRAWN: MJS
CHECKED: JMM	CHECKED: JMM

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "S-1" STA. 204+50.00 TO STA.205+11.50	

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A	
VERTICAL SCALE 1" = 5'	DESIGNATION 2001541	
SURVEY BOOK XS-4	DWG. NO. 17	SHEET NO. of 18
CONTRACT B-41467	PROJECT 2001541	

