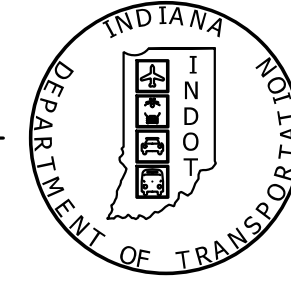


PROJECT	DESIGNATION
1602259	1701457
CONTRACT	BRIDGE FILE
B-40421	062-39-10270

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 62
PROJECT NO.

AT: RP 201+51
1701457 P.E.
1701457 R/W
1701457 CONST.

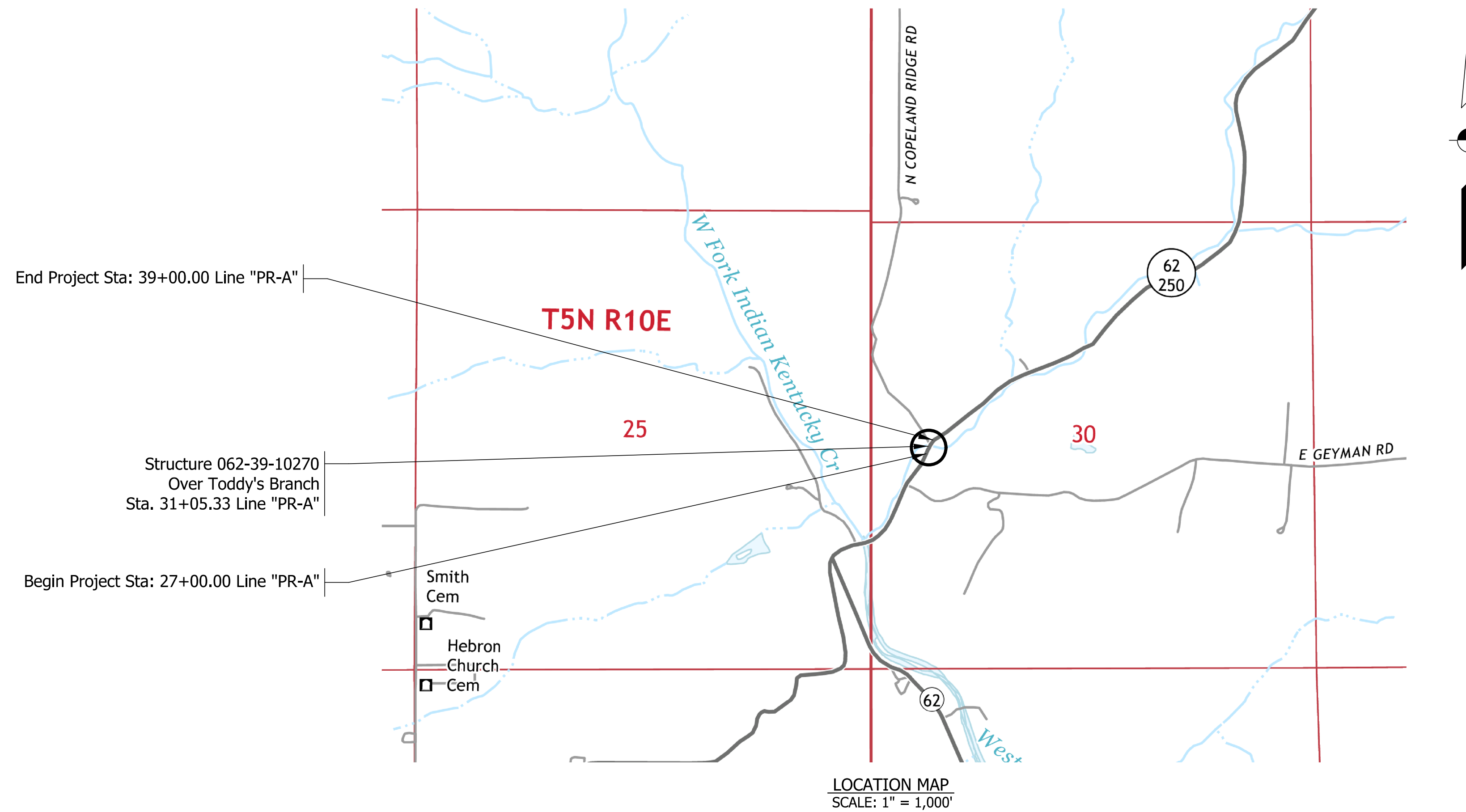
STRUCTURE INFORMATION

STRUCTURE	Des. #	TYPE	SPAN AND SKEW	OVER	STATION
062-39-10270	1701457	Simple Span Prestressed Concrete I-Beam Type II Bridge	59'-10" Skew 31°54'33" Lt.	Toddy's Branch	31+05.33 Line "PR-A"

KIN PROJECT INFORMATION

1602259	SR 62 over Toddy's Branch - Rehab
1700005	SR 62 over Salem Branch
1701455	SR 62 over East Fork Indian-Kentuck Creek (Lead Des #)
1701457	SR 62 over Toddy's Branch - Replace

Bridge Replacement on SR 62 over Toddy's Branch
Located 0.35 Miles East of SR 250 Intersection, West Junction
Section 30, T-5-N, R-11-E, Shelby Township, Jefferson County

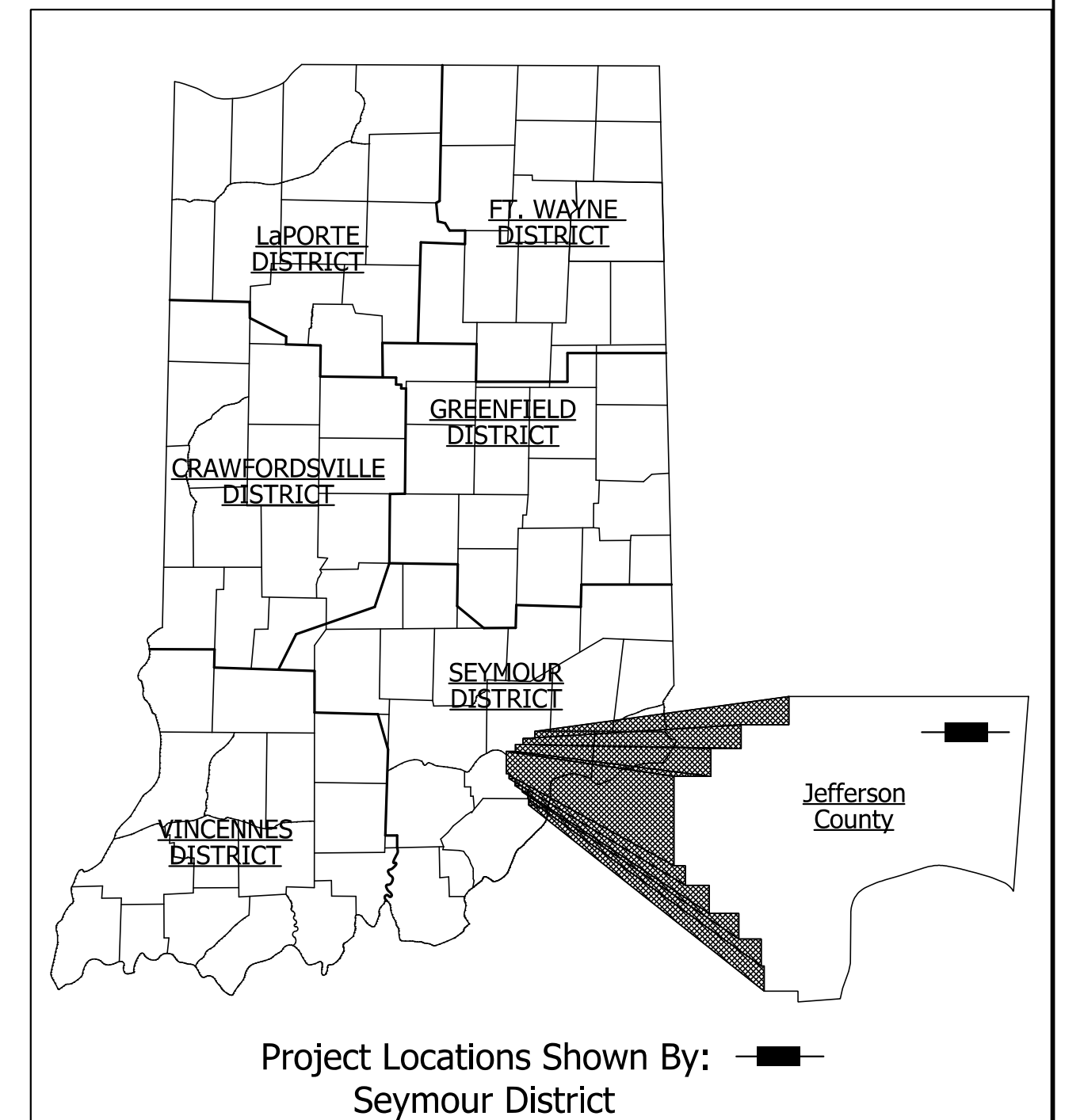


TRAFFIC DATA

A.A.D.T. (2022)	1,242 VPD
A.A.D.T. (2042)	1,415 VPD
D.H.V. (2042)	100 V.P.H.
DIRECTIONAL DISTRIBUTION	46 %
TRUCKS	14.35% A.A.D.T.
	16.47% DHV

DESIGN DATA

DESIGN SPEED	45 mph SR 62, 30 mph N Copeland Ridge Rd.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTION CLASSIFICATION	Major Collector
RURAL/URBAN	Rural
TERRAIN	Rolling
ACCESS CONTROL	None



LATITUDE: 38° 50' 50.42" N LONGITUDE: 85° 20' 55.24" W

BRIDGE LENGTH: 0.012 MI.
ROADWAY LENGTH: 0.218 MI.
TOTAL LENGTH: 0.230 MI.
MAX GRADE: 2.85%

HUC_12 051401010204

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS

BURGESS & NIPL, INC.
251 N. ILLINOIS ST.
CAPITOL CENTER SUITE 920
INDIANAPOLIS, IN 46221
PHONE (317) 237-2760
FAX (317) 237-2755

STAGE 2 PLANS SUBMITTAL
May 15, 2020

PLANS PREPARED BY:	BURGESS & NIPL, INC.	(317) 237-2760
		PHONE NUMBER
PREPARED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
062-39-10270	
DESIGNATION	
1701457	
DWG. NO.	SHEET NO.
TI-01	1 of 29
CONTRACT	PROJECT
B-40421	1701457

UTILITIES

Power: Duke Energy
390 N Main Street
Martinsville, IN 46151
C/O Tim Umbaugh
(765) 349-4012
tim.umbaugh@duke-energy.com

Communication: Frontier
419 Mulberry Street
Madison, IN 47250
(877) 619-6198

Enhanced Telecommunications Corporation
PO Box 145
123 Nieman Street
Sunman, IN 47041
C/O Ellen Belersdorfer
(812) 623-2911
ebeiersdorfer@ect1.net

SouthEastern Indiana R.E.M.C.
PO Box 196
712 S Buckeye Street
Osgood, IN 47037
C/O Mike Summers
(812) 689-4111
mike.summers@seirem.com

Water: Canaan Utilities Corporation
8990 N Canaan Main Street
Madison, IN 47250
C/O Kim Parton
(812) 701-5250
canaanwater@seidata.com

SEI Communications
1400 S US 50
Dillsboro, IN 47018
C/O Jarrod Bruther
(812) 667-5100
brutherj@seidata.com

GENERAL NOTES

*
*
*
*

* For Applicable

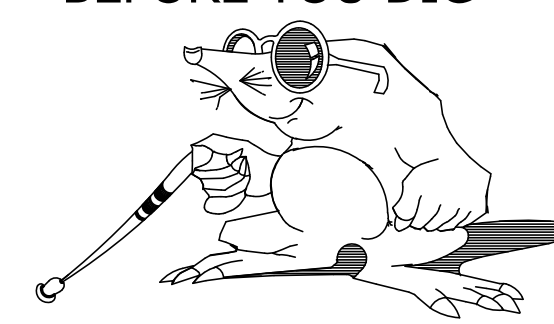
INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	INDEX SHEET
3-4	TYPICAL SECTIONS
5-6	LOCATION CONTROL ROUTE SURVEY
7	DETOUR PLAN
8	PROPERTY MAP
9-10	PLAN AND PROFILE
11	SUPERELEVATION DIAGRAM
12	LAYOUT
13	GENERAL PLAN
14	BRIDGE SUMMARY
15	ROADWAY SUMMARY
16-29	CROSS SECTIONS

REVISIONS

NO.	DATE	DESCRIPTION

**"HOLEY MOLEY"
"DON'T DIG BLIND"
CALL TWO WORKING DAYS
BEFORE YOU DIG**



**WITHIN INDIANA:
1-800-382-5544
FROM OUTSIDE INDIANA:
1-800-428-5200**

5/14/2020 1:03:29 PM
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: SJA	DRAWN: JDG	
CHECKED: XAC	CHECKED: XAC	

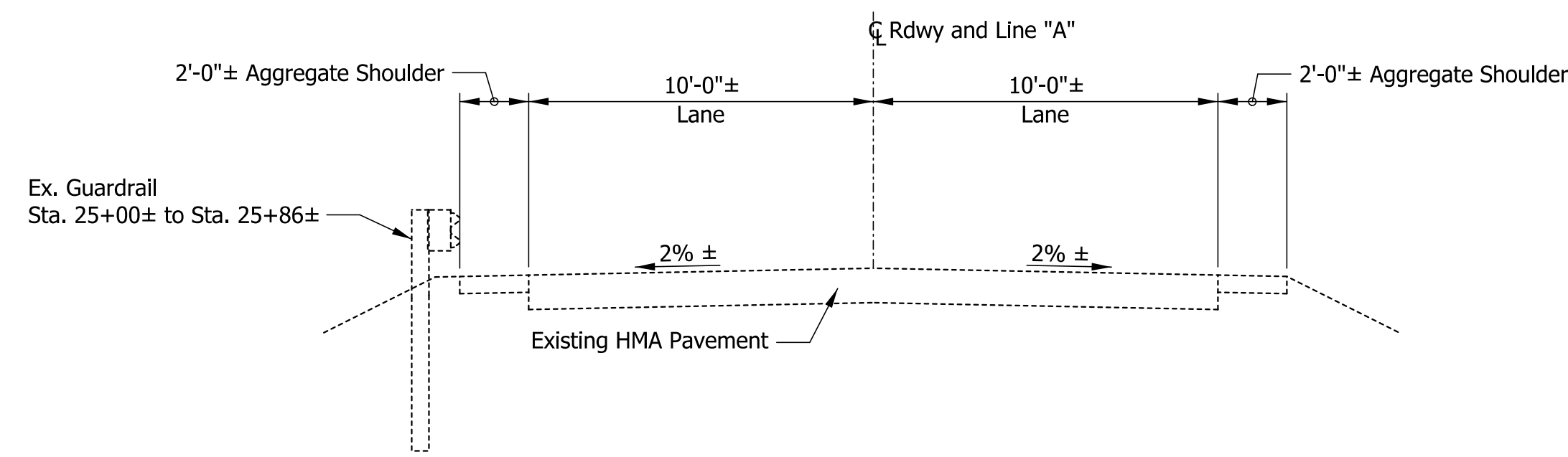
**INDIANA
DEPARTMENT OF TRANSPORTATION**

**SR 62 OVER TODDY'S BRANCH
INDEX SHEET**

HORIZONTAL SCALE As Noted	BRIDGE FILE 062-39-10270	
VERTICAL SCALE As Noted	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. IX-01	SHEET NO. 2 of 29
CONTRACT B-40421	PROJECT 1701457	

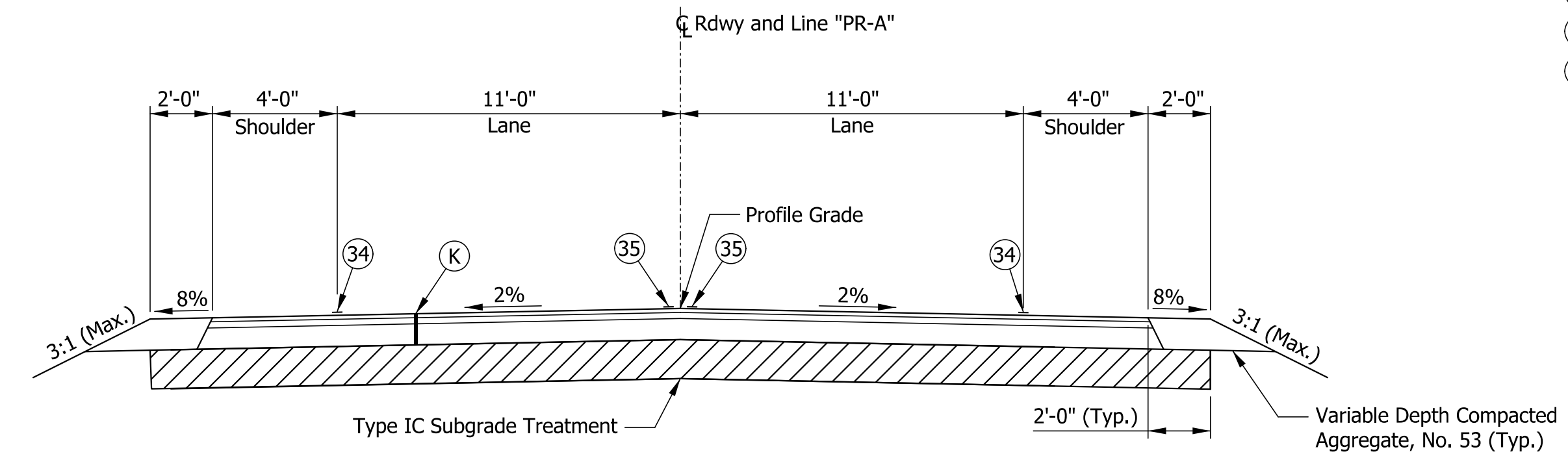
LEGEND

- ③④ Line, Paint, Solid, White, 4"
- ③⑤ Line, Paint, Solid, Yellow, 4"
- (K) xxx lb/syd, QC/QA-HMA, 2, 64, Surface, 9.5 mm on
xxx lb/syd, QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
x" Compacted Aggregate No. 53, Base



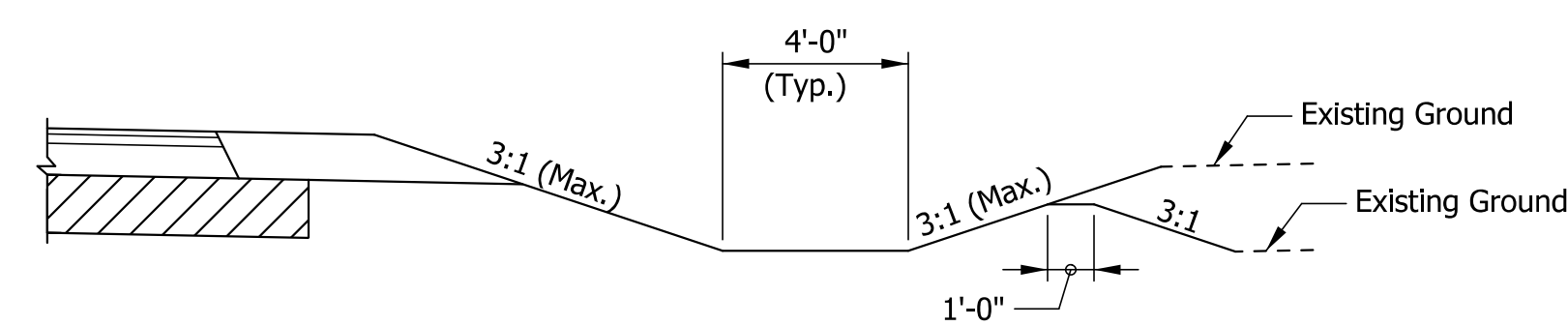
EXISTING SECTION - SR 62

Scale: 1/4" = 1'-0"
Sta. 26+00.00 to Sta. 27+00.00 Line "PR-A"
Sta. 38+10.00 to Sta. 38+50.00 Line "PR-A"



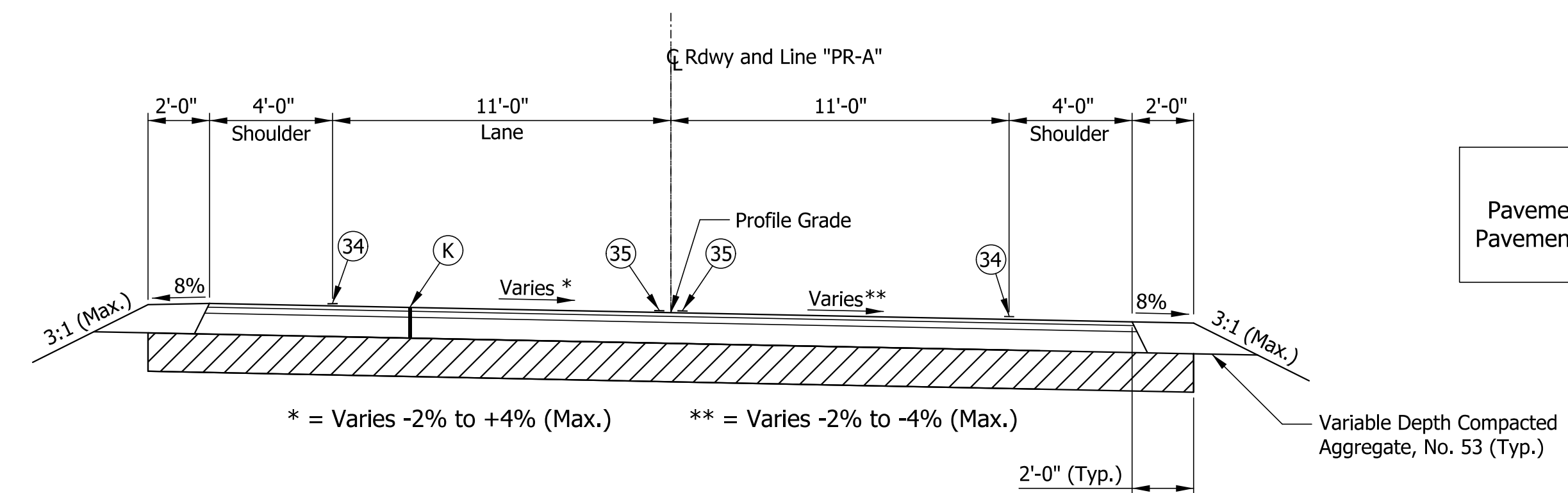
PROPOSED TYPICAL SECTION

Scale: 1/4" = 1'-0"
Sta. 27+00.00 to Sta. 30+83.99 Line "PR-A"
Sta. 37+77.42 to Sta. 38+10.00 Line "PR-A"



TYPICAL DITCH SECTION

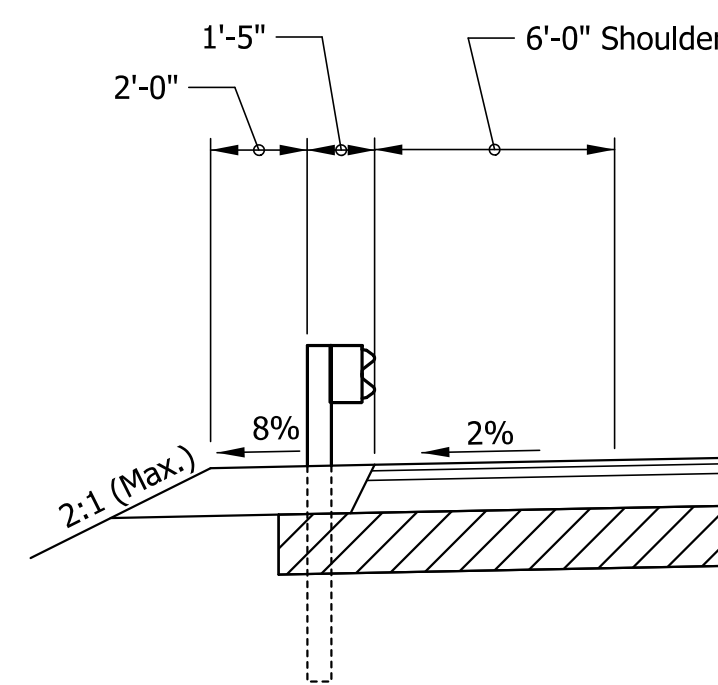
Scale: 1/4" = 1'-0"
Sta. 27+75.00 to Sta. 28+42.00 Left
Sta. 29+27.00 to Sta. 30+82.00 Left
Sta. 31+93.00 to Sta. 37+00.00 Left
Sta. 27+00.00 to Sta. 30+82.17 Right
Line "PR-A"



PROPOSED TYPICAL SECTION

Scale: 1/4" = 1'-0"
Sta. 30+83.99 to Sta. 37+77.42 Line "PR-A"
Paving Exception Sta. 30+37.31 to Sta. 31+70.34 Line "PR-A"

NOTE TO REVIEWER
Pavement Design will be requested after Stage 2.
Pavement Legend will be completed when received.



GUARDRAIL DETAIL

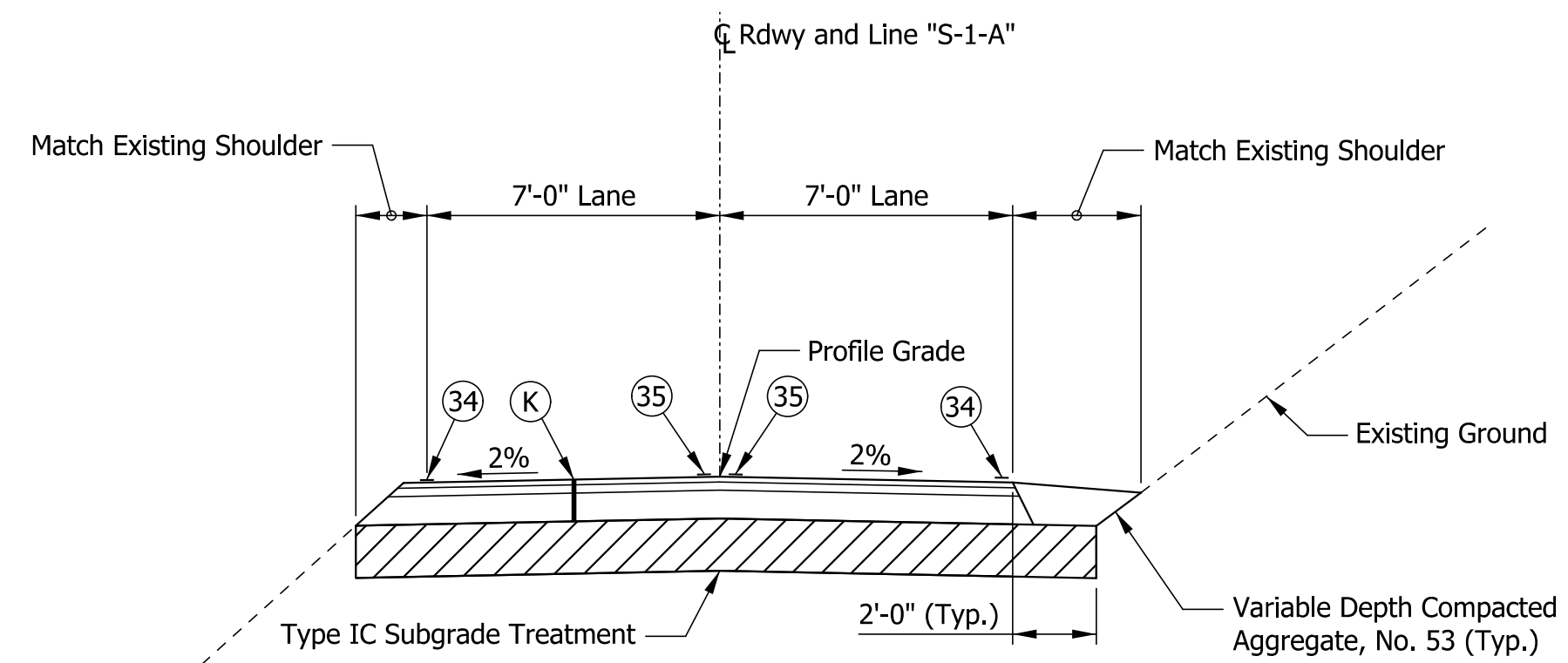
Scale: 1/4" = 1'-0"
Sta. 29+35.54 to Sta. 30+40.56 Left
Sta. 31+48.22 to Sta. 31+97.93 Left
Sta. 29+58.22 to Sta. 30+63.24 Right
Sta. 31+67.08 to Sta. 32+72.74 Right
Line "PR-A"

5/14/2020 10:33:30 PM
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE As Noted		BRIDGE FILE 062-39-10270	
	SR 62 OVER TODDY'S BRANCH TYPICAL SECTIONS		VERTICAL SCALE As Noted		DESIGNATION 1701457	
DESIGNED: SJA			DRAWN: JDG	SURVEY BOOK	DWG. NO. TS-01	SHEET NO. 3 of 29
CHECKED: XAC	CHECKED: SJA	CONTRACT B-40421		PROJECT 1701457		

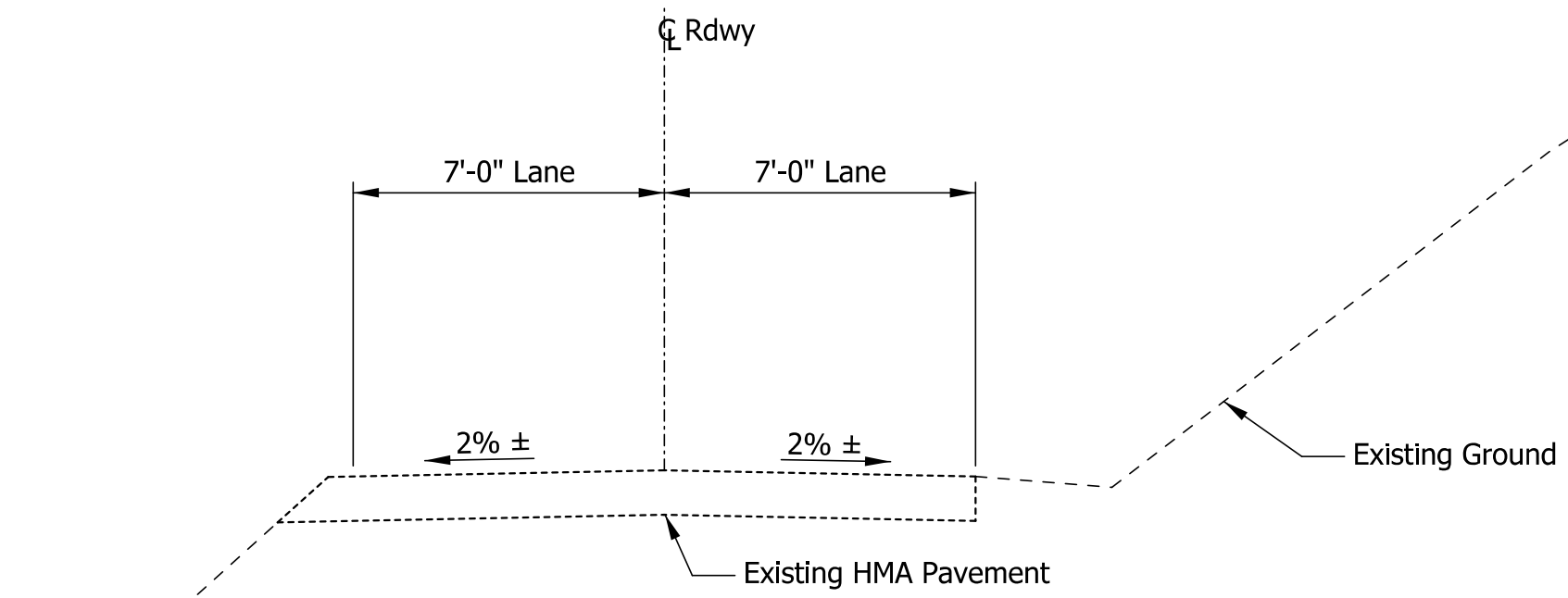
LEGEND

- ③④ Line, Paint, Solid, White, 4"
- ③⑤ Line, Paint, Solid, Yellow, 4"
- Ⓚ xxx lb/syd, QC/QA-HMA, 2, 64, Surface, 9.5 mm on
xxx lb/syd, QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
x" Compacted Aggregate No. 53, Base



TYPICAL SECTION - N COPELAND RIDGE ROAD

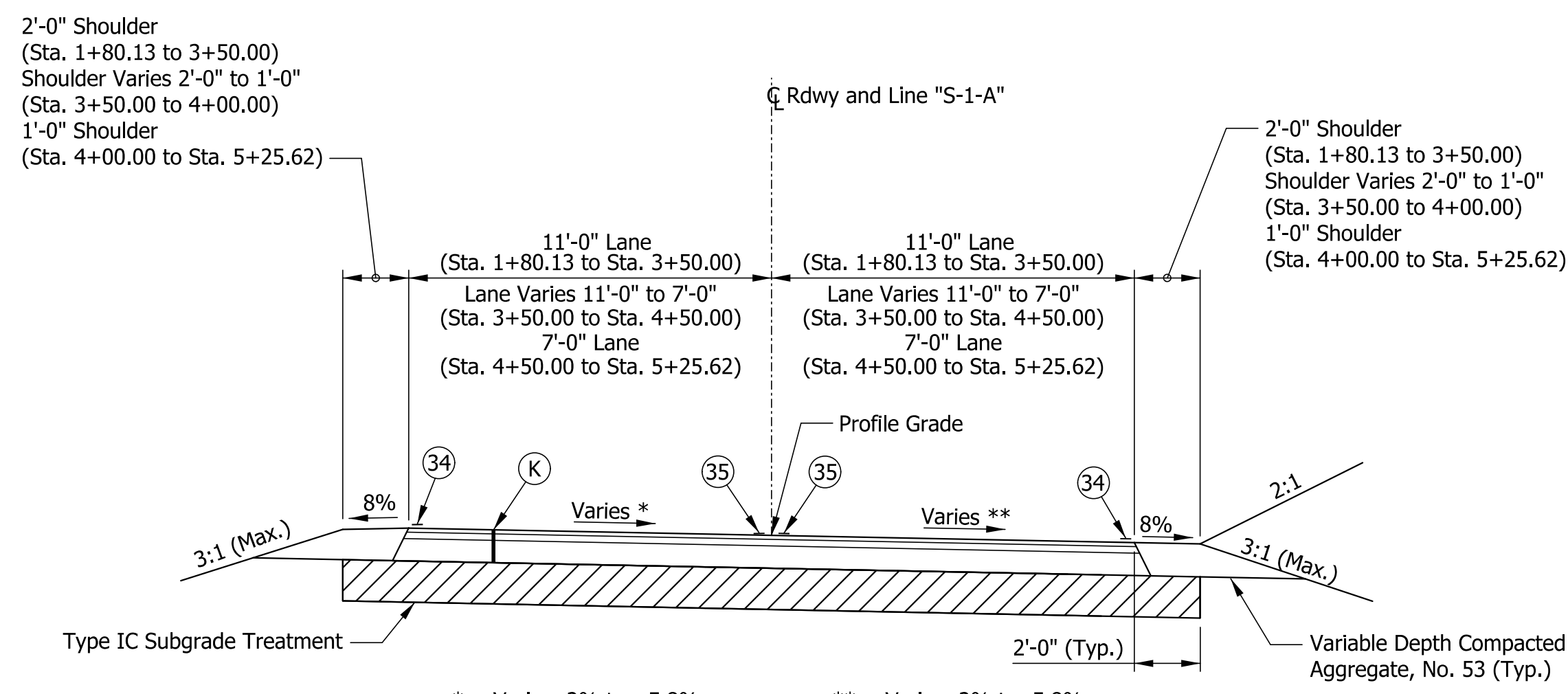
Scale: 1/4" = 1'-0"
Sta. 5+25.62 to Sta. 5+26.74 Line "S-1-A"



EXISTING SECTION - N COPELAND RIDGE ROAD

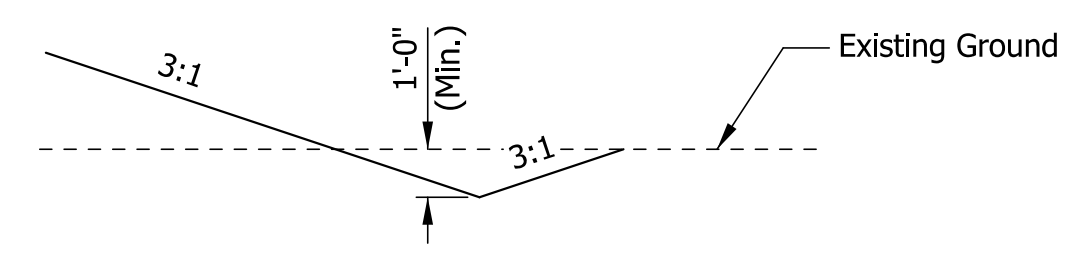
Scale: 1/4" = 1'-0"
Sta. 5+26.74 to Sta. 5+50.00 Line "S-1-A"

NOTE TO REVIEWER
Pavement Design has been requested.
Pavement Legend will be completed when received.



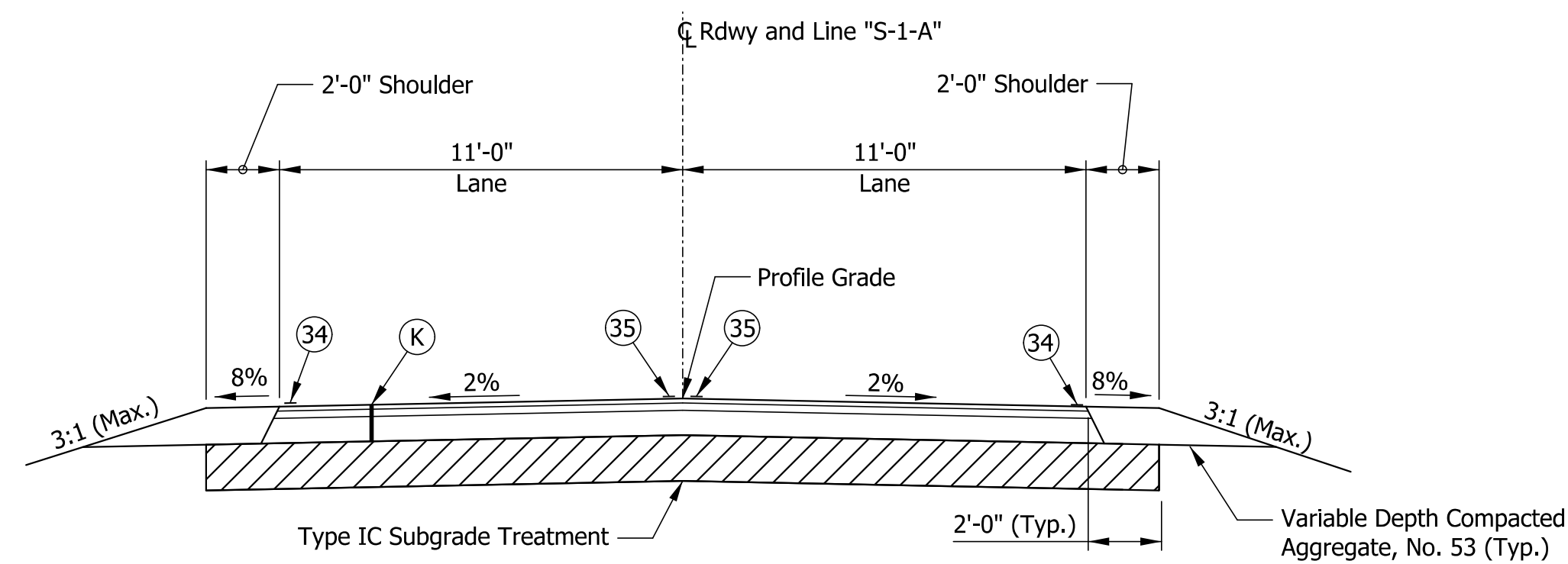
TYPICAL SECTION - N COPELAND RIDGE ROAD

Scale: 1/4" = 1'-0"
Sta. 1+80.13 to Sta. 5+25.62 Line "S-1-A"



TYPICAL DITCH SECTION

Scale: 1/4" = 1'-0"
Sta. 1+72.00 to Sta. 2+89.00 Left & Right
Line "S-1-A"



TYPICAL SECTION - N COPELAND RIDGE ROAD

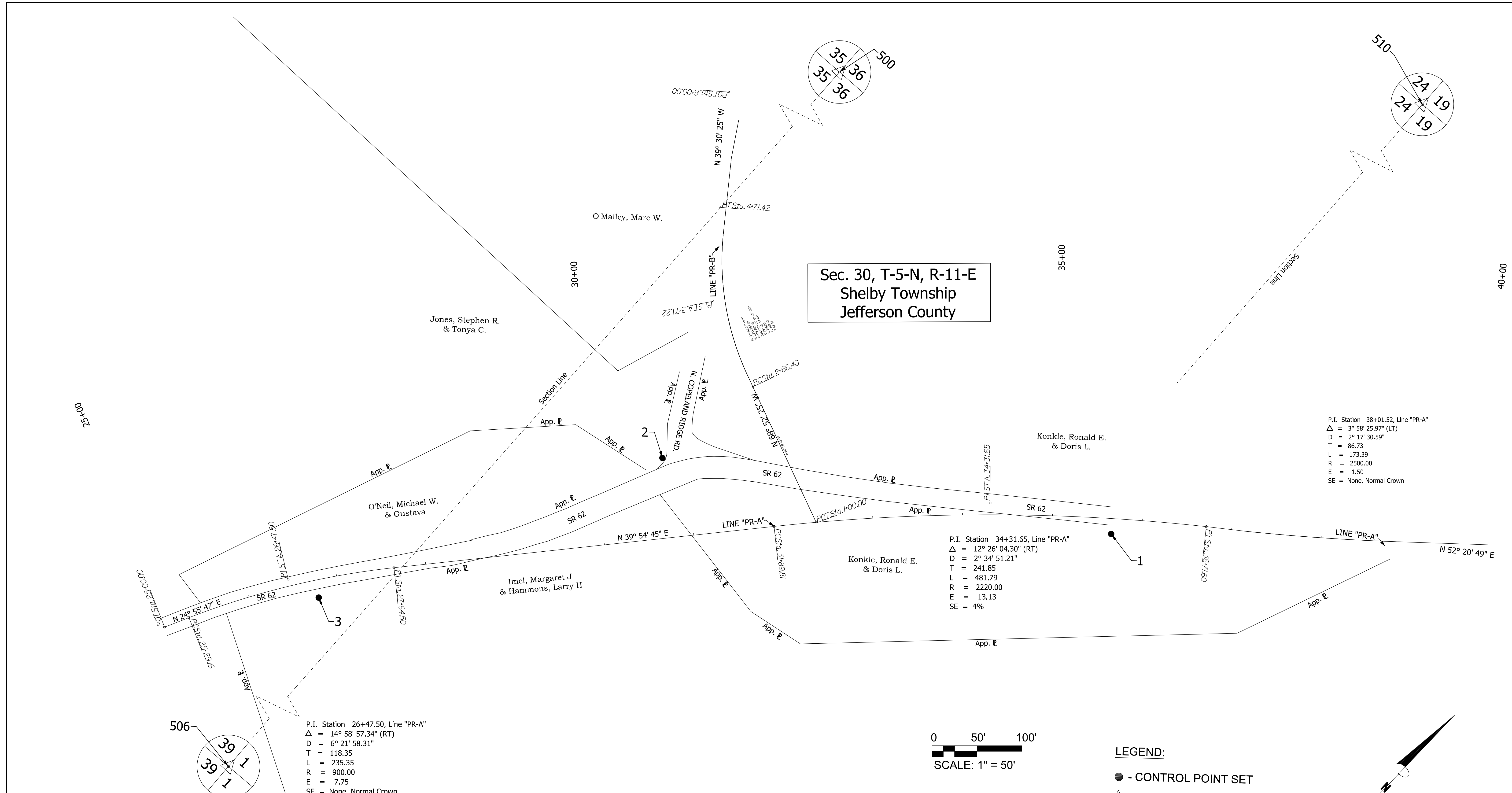
Scale: 1/4" = 1'-0"
Sta. 1+72.00 to Sta. 1+80.13 Line "S-1-A"

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MAK	DRAWN: JDG	
CHECKED: SJA	CHECKED: SJA	

INDIANA DEPARTMENT OF TRANSPORTATION	
SR 62 OVER TODDY'S BRANCH TYPICAL SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE	
As Noted	062-39-10270	
VERTICAL SCALE	DESIGNATION	
As Noted	1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.
	TS-02	4 of 29
CONTRACT	PROJECT	
B-40421	1701457	

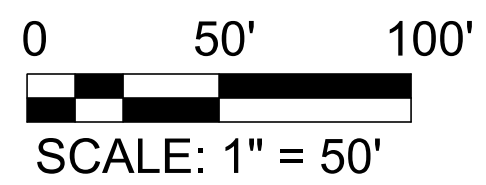


Sec. 30, T-5-N, R-11-E
Shelby Township
Jefferson County

P.I. Station 38+01.52, Line "PR-A"
 $\Delta = 3^\circ 58' 25.97''$ (LT)
 $D = 2^\circ 17' 30.59''$
 $T = 86.73$
 $L = 173.39$
 $R = 2500.00$
 $E = 1.50$
 $SE = \text{None, Normal Crown}$

P.I. Station 34+31.65, Line "PR-A"
 $\Delta = 12^\circ 26' 04.30''$ (RT)
 $D = 2^\circ 34' 51.21''$
 $T = 241.85$
 $L = 481.79$
 $R = 2220.00$
 $E = 13.13$
 $SE = 4\%$

P.I. Station 26+47.50, Line "PR-A"
 $\Delta = 14^\circ 58' 57.34''$ (RT)
 $D = 6^\circ 21' 58.31''$
 $T = 118.35$
 $L = 235.35$
 $R = 900.00$
 $E = 7.75$
 $SE = \text{None, Normal Crown}$



LEGEND:
 ● - CONTROL POINT SET
 △ - 1/4 SECTION CORNER FOUND OR CALCULATED

BURGESS & NIPLE
 Engineers ■ Architects ■ Planners

251 N. Illinois St. #920 Indianapolis, IN 46204
 (317) 237-2760

SURVEY STARTED		
03/26/2018		
SURVEY COMPLETED		
03/27/2018		
ROUTE PLAT SHEETS		
1	of	2

NOTE: "Survey Started" date and "Survey Completed" date shown below indicates date of first field work and date of last field work respectfully. This does not represent a continuous time span of work for this Project field work was stopped and re-started as necessary due to work on various other Projects.

SURVEYOR'S STATEMENT
 THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

MARK W. TEEPE RLS #80860002 _____ DATE _____



I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

Prepared by: _____ DATE _____

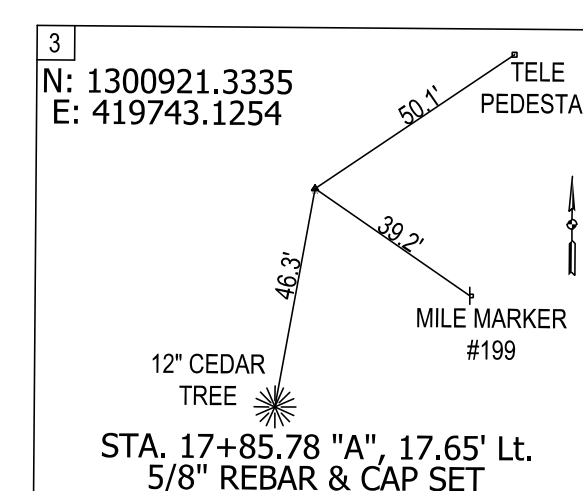
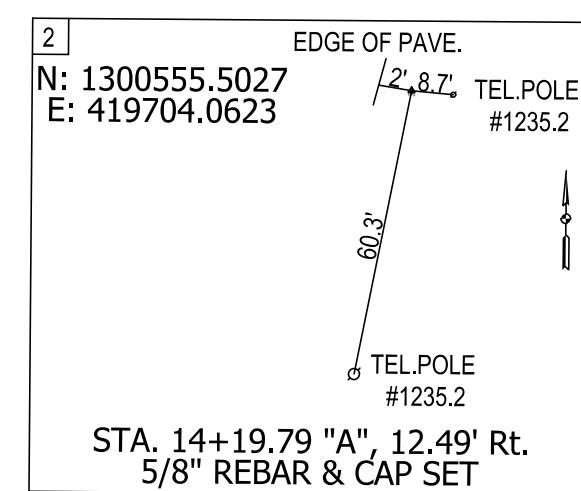
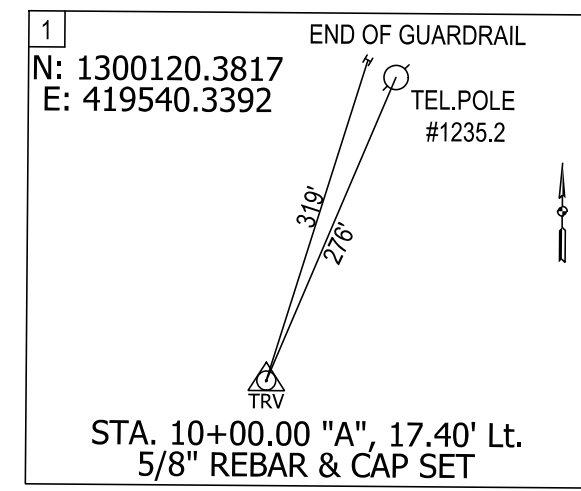
REGISTERED LAND SURVEYOR, FIELD

INDIANA
 DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

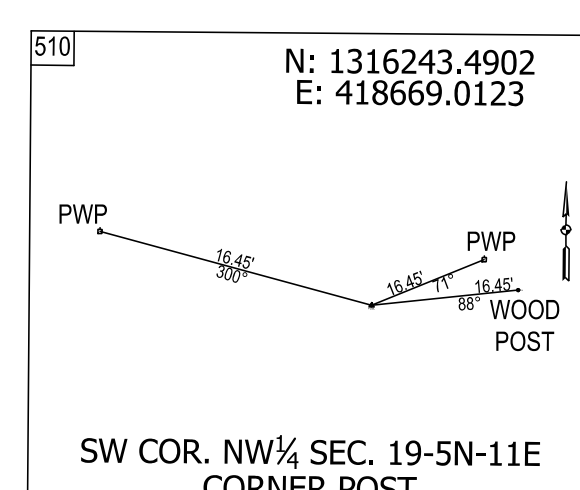
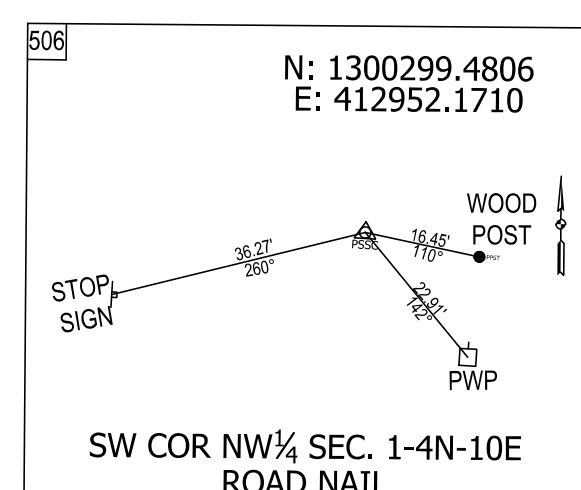
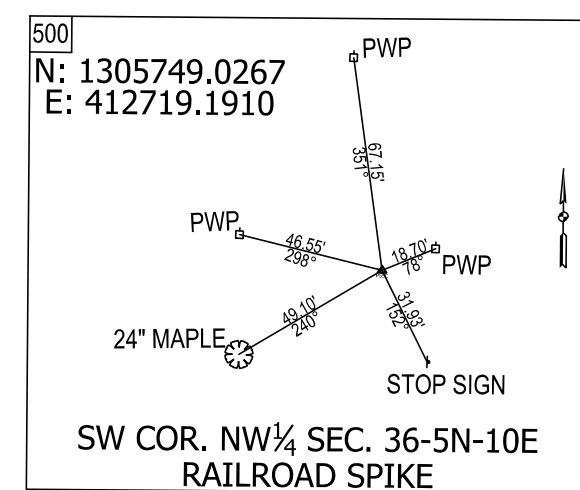
HORIZONTAL SCALE		BRIDGE FILE	
1" = 50'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.	
16/56-57	PL-01	5 of 29	
CONTRACT	PROJECT		
B-40421	1701457		

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SURVEY CONTROL POINT REFERENCES

USPLS SECTION CORNER POINTS					
PT #	Northing Grid (ISPC-E)	Easting Grid (ISPC-E)	Northing Ground (Local)	Easting Ground (Local)	Description
500	1305749.0267	412719.1910	305,800.0511	312,735.3187	RAILROAD SPIKE
506	1300299.4806	412952.1710	300,350.2921	312,968.3079	ROAD NAIL
510	1316243.4902	418669.0123	316,294.3187	318,685.3725	CORNER POST
SURVEY CONTROL POINTS					
1	1300120.3817	419540.3392	300108.6544	319527.8531	5/8" REBAR WITH B&N CAP
2	1300555.5027	419704.0623	300543.7584	319691.5698	5/8" REBAR WITH B&N CAP
3	1300921.3335	419743.1254	300909.5749	319730.6314	5/8" REBAR WITH B&N CAP



USPLS SECTION CORNER REFERENCES FROM JEFFERSON CO. SURVEYORS OFFICE

SURVEYOR'S REPORT

IN ACCORDANCE WITH TITLE 865, CHAPTER 12, OF THE INDIANA ADMINISTRATIVE CODE, THE FOLLOWING OPINIONS AND OBSERVATIONS ARE OFFERED.

ROUTE SURVEY: DES. #1701457

LOCATION:
ALONG STATE ROAD 62 0.35 MILES EAST OF SR 250.
LOCATED IN SECTIONS 30,
TOWNSHIP 5 SOUTH, RANGE 11 EAST, SHELBY
TOWNSHIP, JEFFERSON COUNTY, INDIANA.

PURPOSE:
COLLECT DATA TO CREATE DESIGN PLANS FOR BRIDGE REPLACEMENT. THIS IS NOT A PROPERTY RETRACEMENT SURVEY AND ANY PROPERTY LINES AND OR CORNERS SHOWN ARE BASED ONLY ON PHYSICAL EVIDENCE AS COLLECTED DURING THE FIELD WORK.

GENERAL NOTES:
ALL MONUMENT REFERENCE TIES ARE SHOWN ON THE LOCATION ROUTE SURVEY PLAT (HERIN AFTER REFERRED TO AS LCRS).

ALL MEASUREMENTS ARE IN US SURVEY FEET UNLESS OTHERWISE NOTED. ALL DISTANCES SHOWN ON THIS LCRS REPRESENT GROUND MEASUREMENTS.

SHOULD ADDITIONAL USPLS CORNERS BE NEEDED WHERE NONE WERE FOUND, THEY SHOULD BE RE-ESTABLISHED AND TIED INTO THIS SURVEY.

FIELD MEASUREMENTS FOR THIS SURVEY WERE MADE IN ACCORDANCE WITH THE SPECIFICATIONS OUTLINED IN INDIANA ADMINISTRATIVE CODE 865 IAC 1-12-20 THROUGH 1-12-25. THE DECIMAL PRECISION SHOWN ON THIS PLAT FOR THE MEASUREMENTS AND COORDINATES IS FOR CONSISTENCY IN THE MATHEMATICAL CALCULATIONS, AND NOT TO INDICATE THE PRECISION OF THE FIELD WORK CONDUCTED FOR THIS SURVEY.

POINTS 1 THROUGH 3 AS SHOWN IN THE CONTROL POINT TABLE ON THE LCRS ARE POSITIONS LOCATED USING A LEICA GPS ROVER WITH GEOID MODEL 12A CONNECTED TO THE INCORS NETWORK, NAD83, NAVD88. MULTIPLE OBSERVATIONS WERE DONE AT DIFFERENT TIMES TO VERIFY CONTROL POINT POSITIONS. THESE POSITIONS ARE LOCATED IN THE INDIANA STATE PLANE COORDINATES, EAST ZONE (1301). THE STATE PLANE COORDINATES WERE THEN CONVERTED TO A LOCAL GROUND COORDINATE SYSTEM BY APPLYING A COMBINED SCALE FACTOR OF 0.999960924766 AND A SHIFT OF -100000.0000 TO THE EASTINGS AND -1000000.0000 TO THE NORTHINGS.

BEARINGS ARE BASED ON THIS LOCAL COORDINATE SYSTEM.

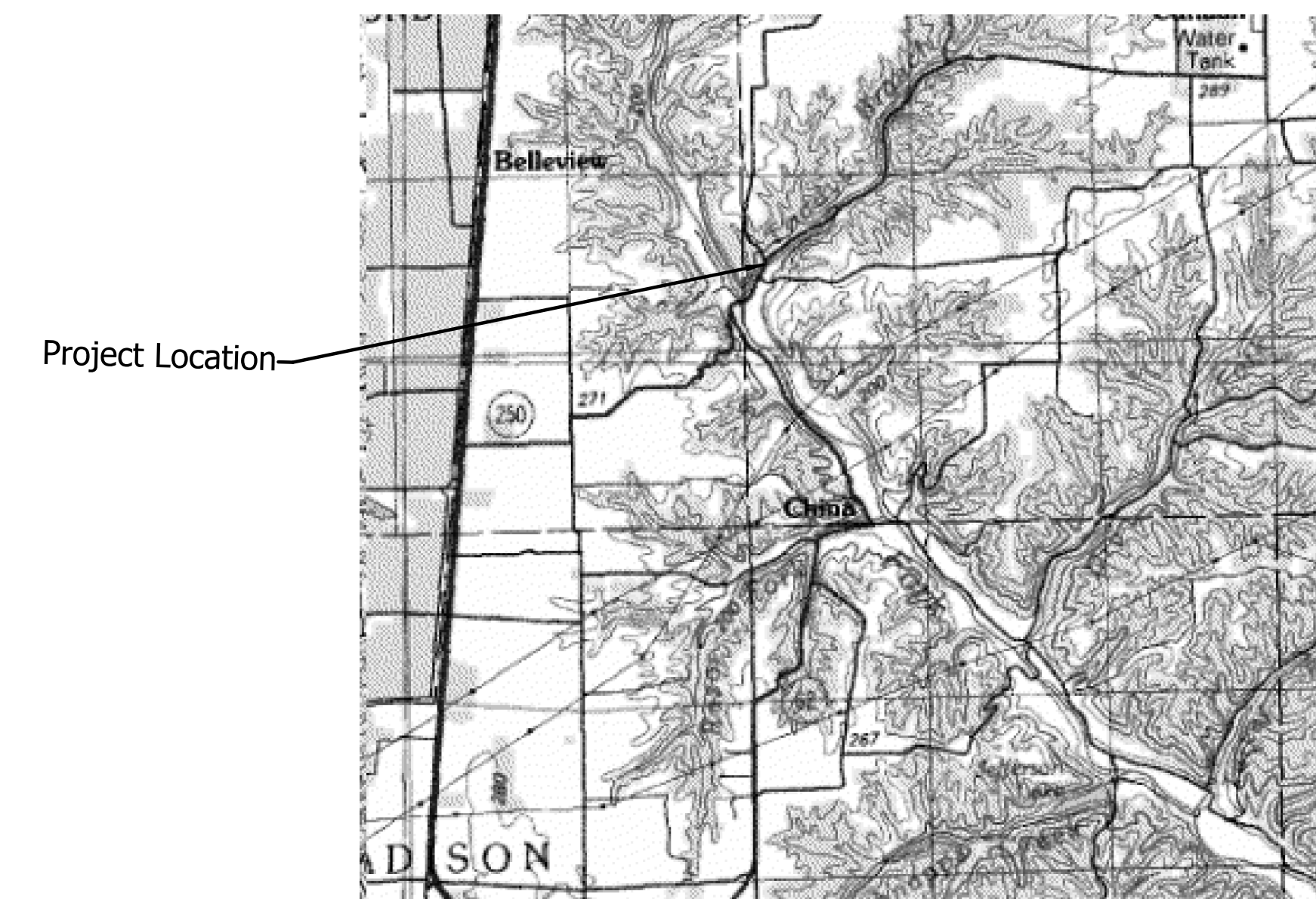
THE STATE PLANE COORDINATES FOR THE CONTROL POINTS SHOWN IN THE CONTROL POINT TABLE AND METADATA REGARDING THE COMBINED SCALE FACTOR AND COORDINATE SHIFT USED FOR THIS SURVEY IS PROVIDED TO ENABLE RE-ESTABLISHMENT OF SURVEY LINE MONUMENTS IF THEY ARE DESTROYED.

ALIGNMENT & STATIONING:
THE ALIGNMENT LINE "A" WAS ESTABLISHED BY CALCULATING AND BY SPLITTING THE EXISTING PAVEMENT.
THE BEGINNING STATION FOR LINE "A" IS PVI STA. 25+00.00

CONTROL POINTS:
ALL CONTROL POINT MONUMENTS SHOWN ON THE LCRS AND THE CONTROL POINT TABLE ARE ORIGINAL MONUMENTS THAT WERE SET DURING THIS SURVEY SO THERE IS NEGLIGIBLE UNCERTAINTY ASSOCIATED WITH THEM.

USPLS SECTION CORNERS:
QUARTER SECTION CORNER MONUMENTS DESIGNATED AS POINT NUMBERS 500, 506 AND 510 SHOWN ON THE LCRS USPLS SECTION CORNERS TABLE WERE FOUND USING REFERENCE TIES RECORDS OBTAINED FROM THE JEFFERSON COUNTY SURVEYOR'S OFFICE.

THEORETICAL UNCERTAINTY (RANDOM ERRORS IN MEASUREMENT):
THE MEASUREMENTS ASSOCIATED WITH THE CORNERS AND LINES ESTABLISHED FOR THIS SURVEY ARE WITHIN THE SPECIFICATIONS FOR A CLASS D SURVEY (0.5 FEET) PER IAC 865-12.



BURGESS & NIPLE
Engineers ■ Architects ■ Planners

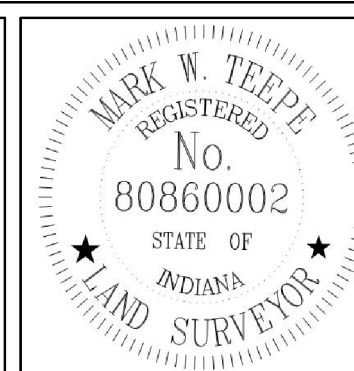
251 N. Illinois St. #920 Indianapolis, IN 46204
(317) 237-2760

SURVEY STARTED		
03/26/2018		
SURVEY COMPLETED		
03/27/2018		
ROUTE PLAT SHEETS		
2	of	2

NOTE: "Survey Started" date and "Survey Completed" date shown below indicates date of first field work and date of last field work respectfully. This does not represent a continuous time span of work for this Project field work was stopped and re-started as necessary due to work on various other Projects.

SURVEYOR'S STATEMENT
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.

MARK W. TEEPE RLS #80860002 DATE



I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

Prepared by:

REGISTERED LAND SURVEYOR, FIELD

DATE

INDIANA
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.
16/56-57	PL-01	6 of 29
CONTRACT	PROJECT	
B-40421	1701457	

SECTION 30, T-5-N, R-11-E
SHELBY TWP., JEFFERSON CO.

SECTION 30, T-5-N, R-11-E
SHELBY TWP., JEFFERSON CO.

SECTION 30, T-5-N, R-11-E
SHELBY TWP., JEFFERSON CO.

SECTION 30, T-5-N, R-11-E
SHELBY TWP., JEFFERSON CO.

Curve 1
P.I. Station 26+47.50, Line "PR-A"
 $\Delta = 14^\circ 58' 57.34"$ (RT)
 $D = 6^\circ 21' 58.31"$
T = 118.35
L = 235.35
R = 900.00
E = 7.75
SE = None, Normal Crown

Curve 2
P.I. Station 34+31.65, Line "PR-A"
 $\Delta = 12^\circ 26' 04.30"$ (RT)
 $D = 2^\circ 34' 51.21"$
T = 241.85
L = 481.79
R = 2220.00
E = 13.13
SE = 4%

Curve 3
P.I. Station 38+01.52, Line "PR-A"
 $\Delta = 3^\circ 58' 25.97"$ (LT)
 $D = 2^\circ 17' 30.59"$
T = 86.73
L = 173.39
R = 2500.00
E = 1.50
SE = None, Normal Crown

Curve 4
P.I. Station 3+64.60, Line "S-1-A"
 $\Delta = 31^\circ 05' 49"$ (RT)
 $D = 19^\circ 05' 54.94"$
T = 83.47
L = 162.82
R = 300.00
E = 11.40
SE = 5.82%

NOTES:
1. Station and offset are from Line "PR-A" except as noted.
2. Existing R/W limits are given at existing edge of pavement and shown as App. R.

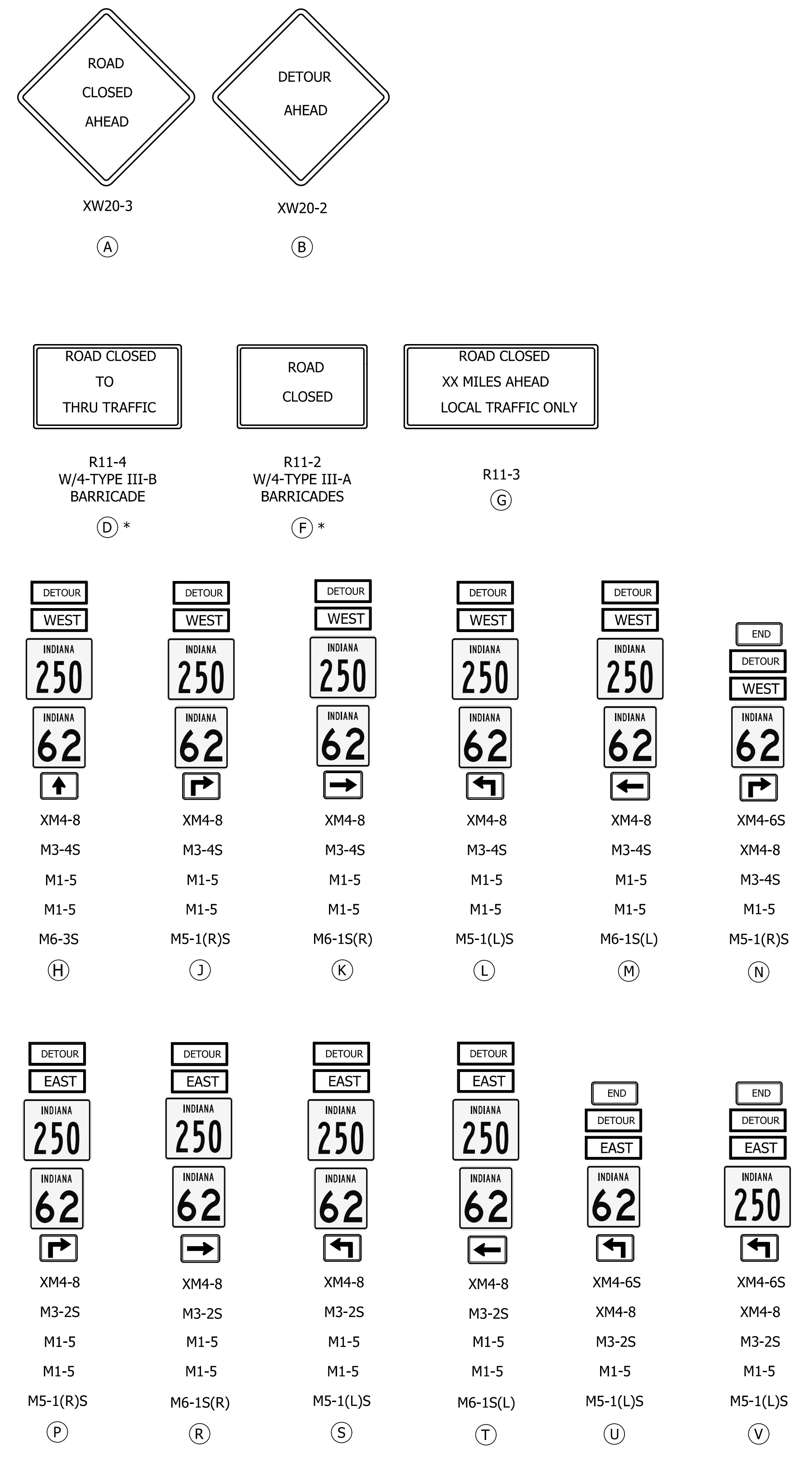
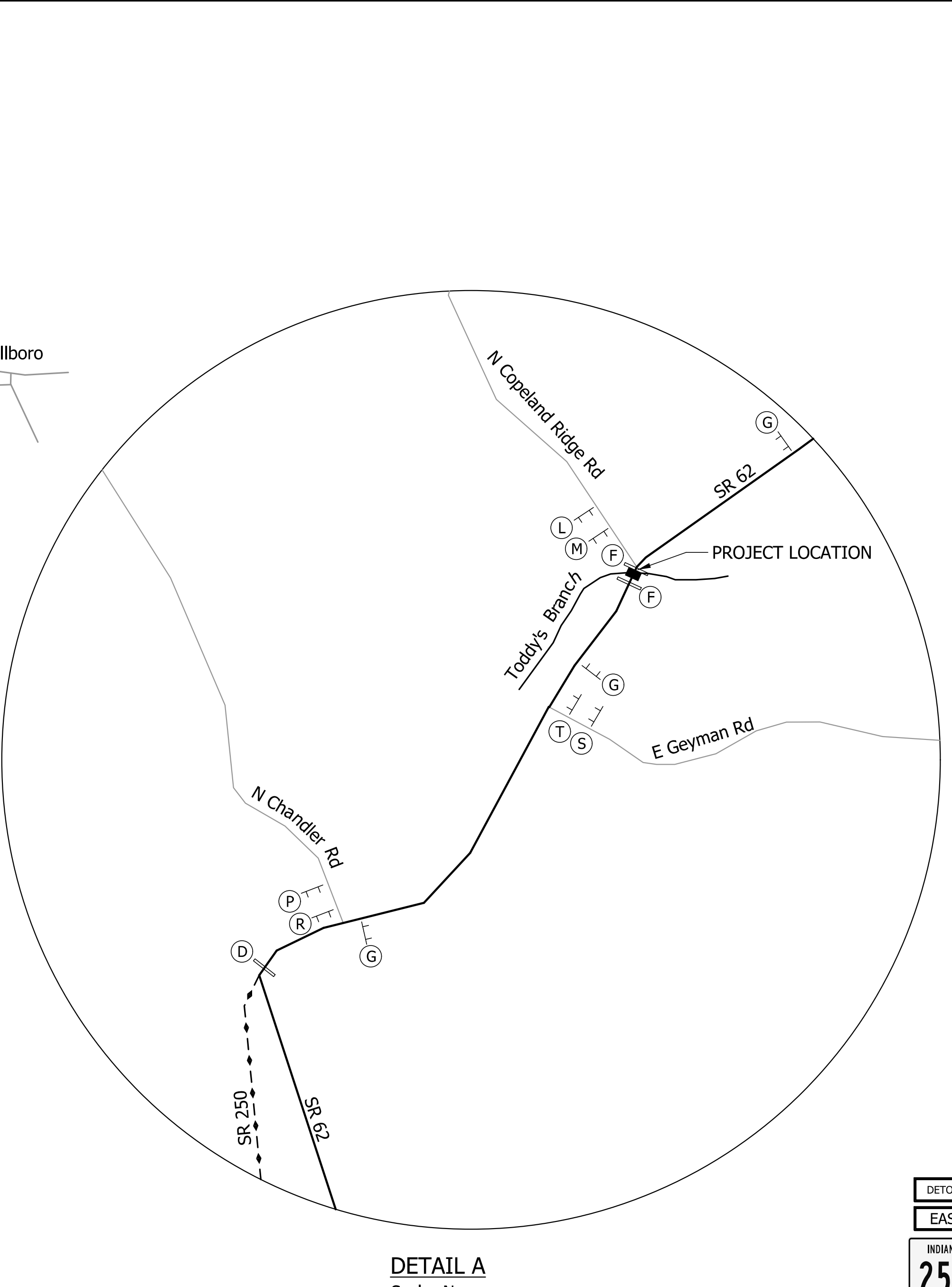
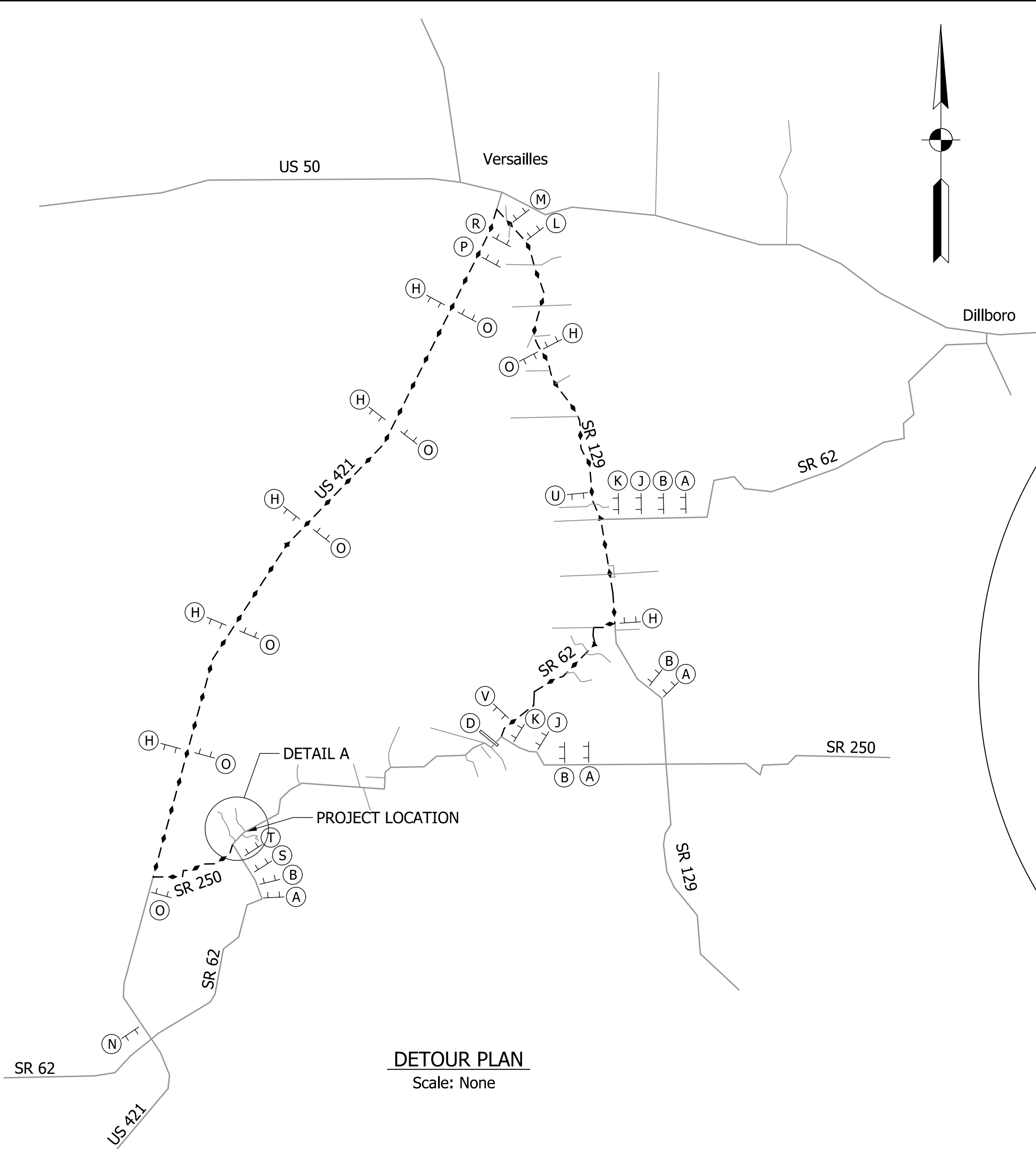
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED:	SJA	DRAWN:	JDG		
CHECKED:	XAC	CHECKED:	MWT		

INDIANA
DEPARTMENT OF TRANSPORTATION

**SR 62 OVER TODDY'S BRANCH
PROPERTY MAP**

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	062-39-10270	
VERTICAL SCALE	DESIGNATION	
N/A	1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.
16/56-57	PL-01	7 of 29
CONTRACT	PROJECT	
B-40421	1701457	



NOTES:
 See Indiana Manual on Uniform Traffic Control Devices and Standard Drawings for sign details and spacings.
 Contractor shall give residence and lessors on the closed road 24 hour access to drives and field entrances.
 *-Signs "D" & "F" to be paid for as Road Closure Sign Assemblies.

SIGN SUMMARY

** CONSTRUCTION SIGN TYPE "A"	13 EA.
DETOUR ROUTE MARKER ASSEMBLY	34 EA.
ROAD CLOSURE SIGN ASSEMBLY	4 EA.
BARRICADE, TYPE III-A	96 LFT.
BARRICADE, TYPE III-B	96 LFT.

** INCLUDES 2 XG20-5 ROUTE CLOSURE NOTICE SIGNS (LOCATION TO BE DETERMINED BY PROJECT ENGINEER IN THE FIELD)

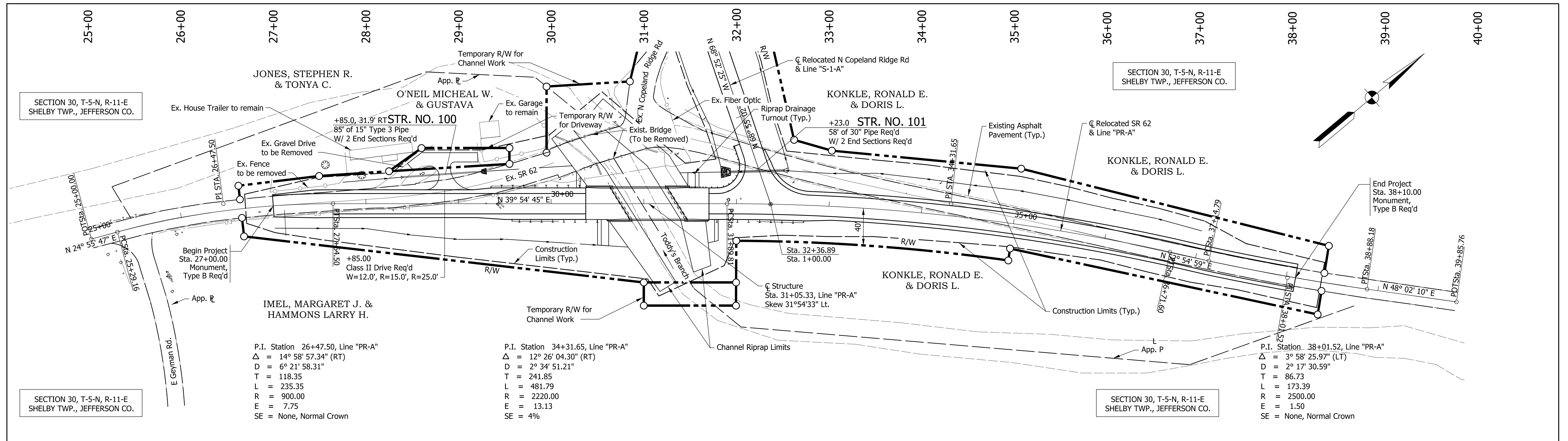
LEGEND:

- Closed Bridge Location
- Barricade
- TT Sign Assembly
- - - - Detour Route

DETOUR ROUTE MARKER ASSEMBLIES

5/14/2020 1:03:43 PM
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION SR 62 OVER TODDY'S BRANCH DETOUR PLAN	HORIZONTAL SCALE As Noted	BRIDGE FILE 062-39-10270
DESIGNED: SJA DRAWN: JDG		VERTICAL SCALE As Noted	DESIGNATION 1701457
CHECKED: XAC CHECKED: STB		SURVEY BOOK B-40421	DWG. NO. MT-01
		CONTRACT B-40421	PROJECT 1701457

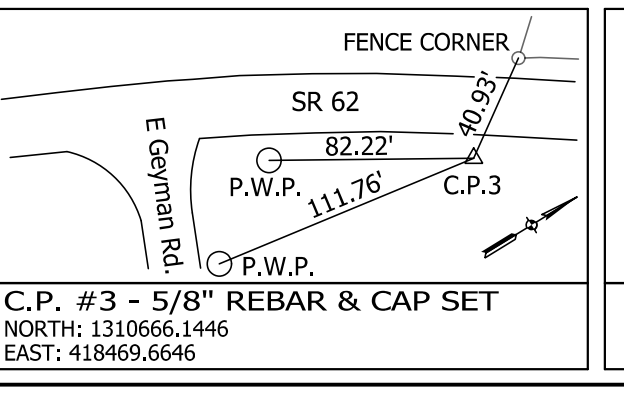
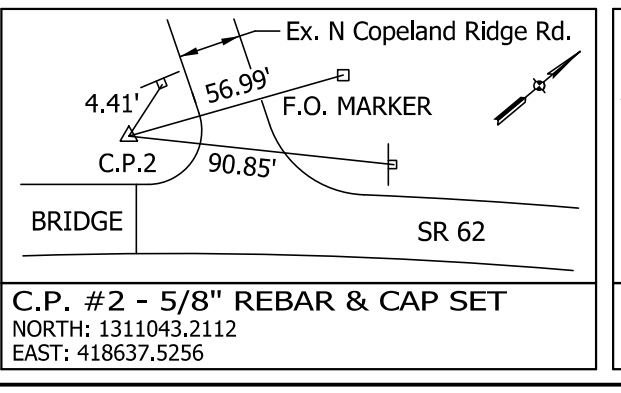
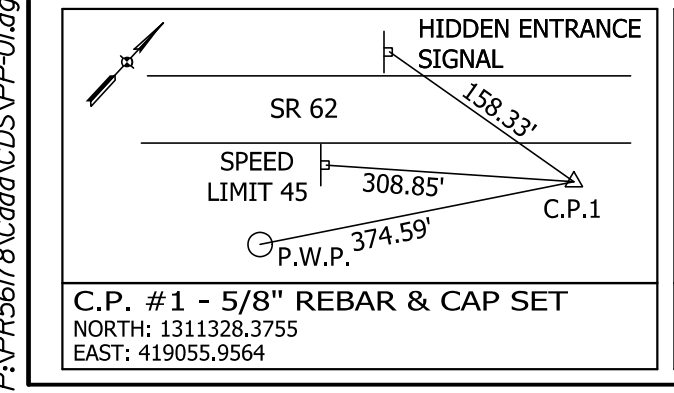
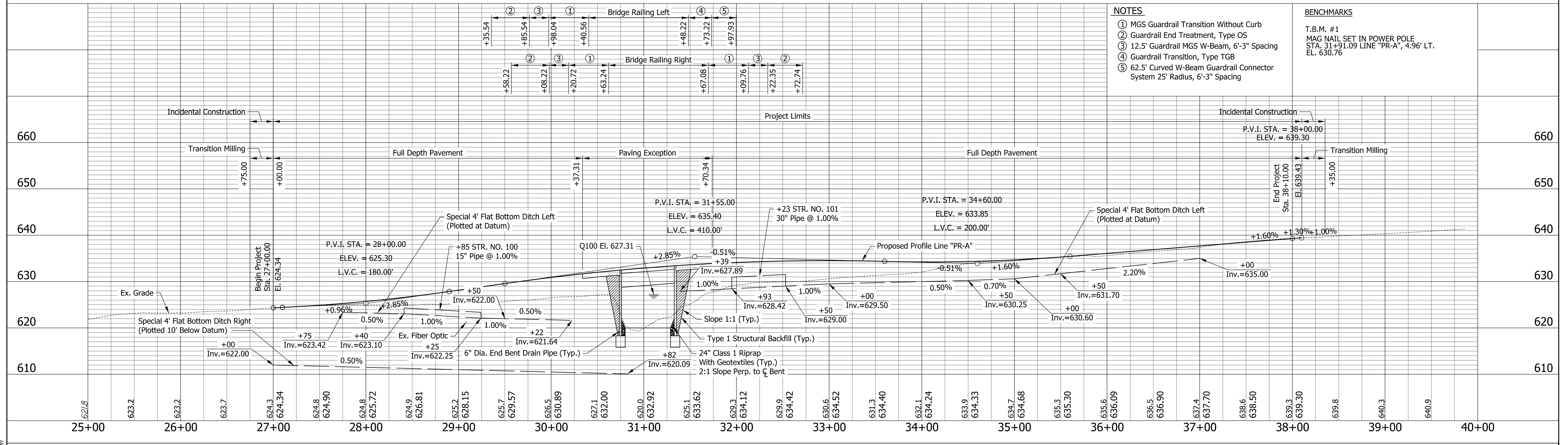


P.I. Station 26+47.50, Line "PR-A"
 $\Delta = 14^\circ 58' 57.34"$ (RT)
 $D = 6^\circ 21' 58.31"$
 $T = 118.35$
 $L = 235.35$
 $R = 900.00$
 $E = 7.75$
 $SE = \text{None, Normal Crown}$

P.I. Station 34+31.65, Line "PR-A"
 $\Delta = 12^\circ 26' 04.30"$ (RT)
 $D = 2^\circ 34' 51.21"$
 $T = 241.85$
 $L = 481.79$
 $R = 2220.00$
 $E = 13.13$
 $SE = 4\%$

P.I. Station 38+01.52, Line "PR-A"
 $\Delta = 3^\circ 58' 25.97"$ (LT)
 $D = 2^\circ 17' 30.59"$
 $T = 86.73$
 $L = 173.39$
 $R = 2500.00$
 $E = 1.50$
 $SE = \text{None, Normal Crown}$

- NOTES**
- ① MGS Guardrail Transition Without Curb
 - ② Guardrail End Treatment, Type OS
 - ③ 12.5' Guardrail MGS W-Beam, 6'-3" Spacing
 - ④ Guardrail Transition, Type TGB
 - ⑤ 62.5' Curved W-Beam Guardrail Connector System 25' Radius, 6'-3" Spacing
- BENCHMARKS**
- T.B.M. #1
MAG NAIL SET IN POWER POLE
STA. 31+91.09 LINE "PR-A", 4.96' LT.
EL. 630.76



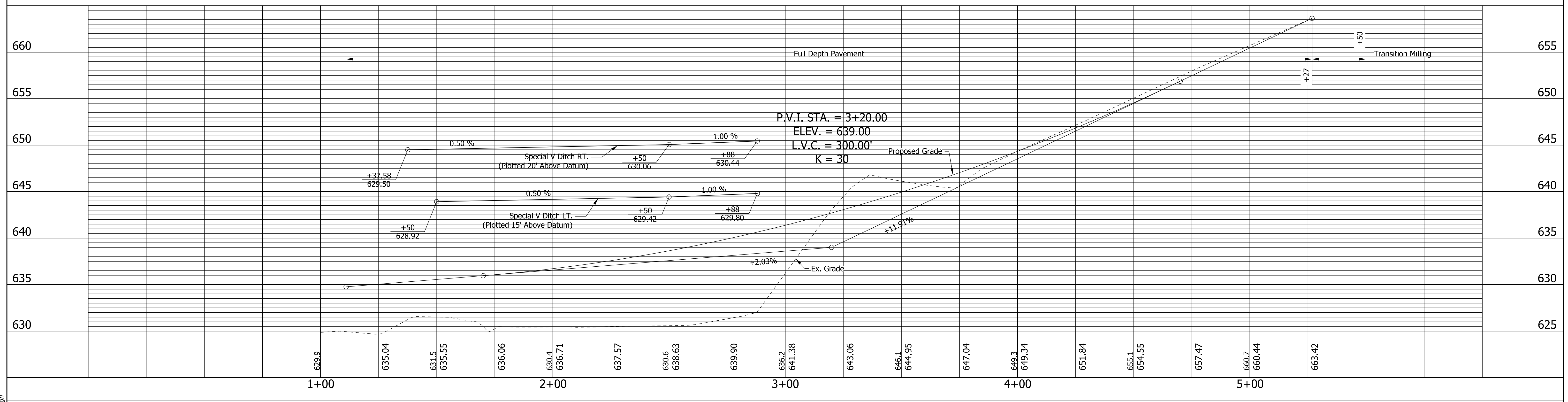
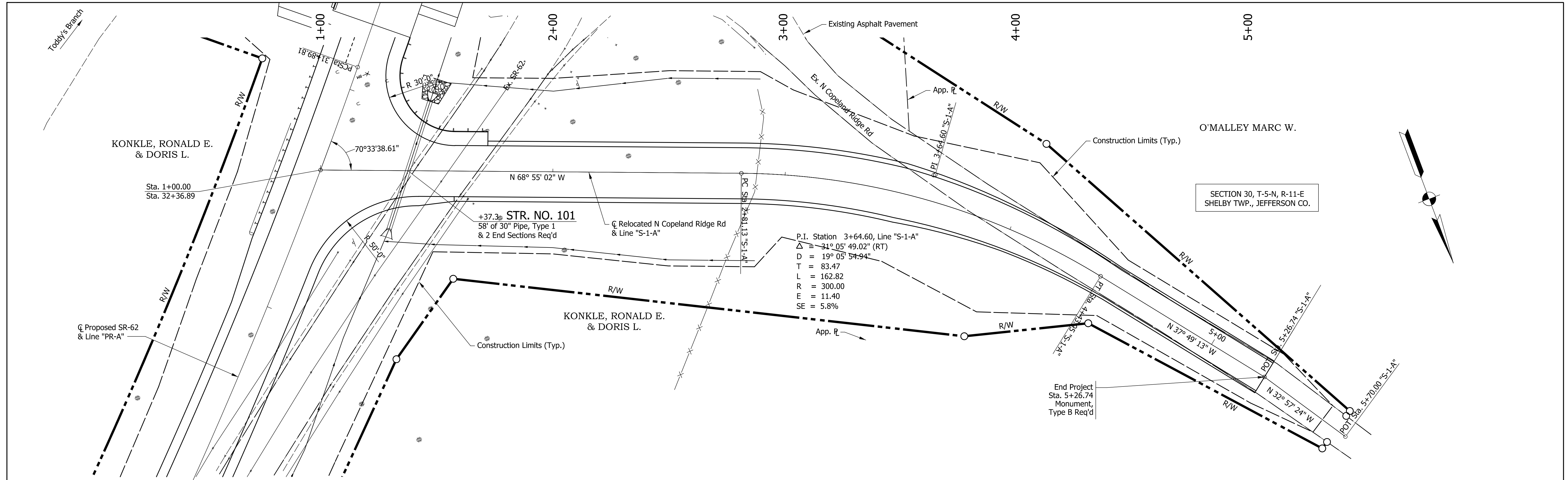
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJA	DRAWN: JDG	
CHECKED: XAC	CHECKED: SJA	

INDIANA
DEPARTMENT OF TRANSPORTATION

**SR 62 OVER TODDY'S BRANCH
PLAN AND PROFILE - 1**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 062-39-10270
VERTICAL SCALE 1" = 10'	DESIGNATION 1701457
SURVEY BOOK	DWG. NO. SHEET NO. PP-01 9 of 29
CONTRACT B-40421	PROJECT 1701457

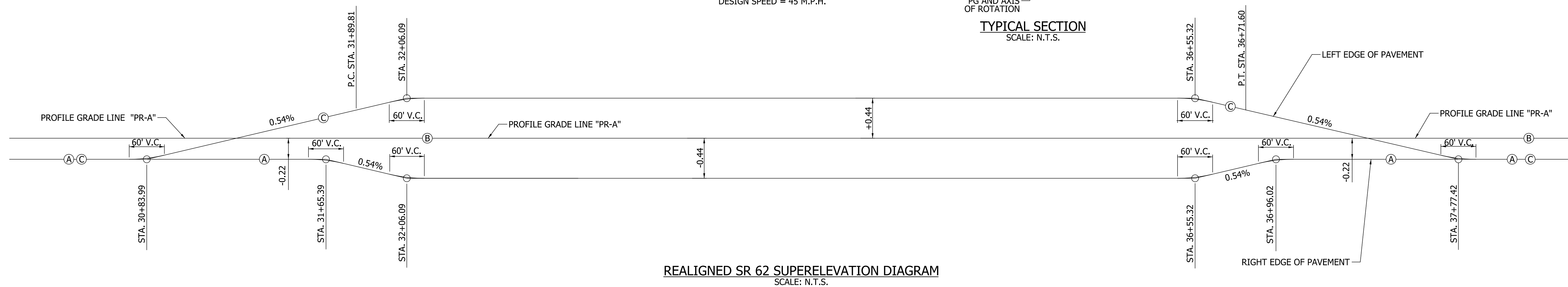
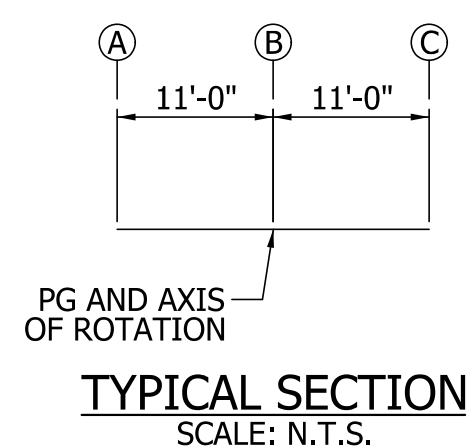
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5/14/2020 2:52:20 PM
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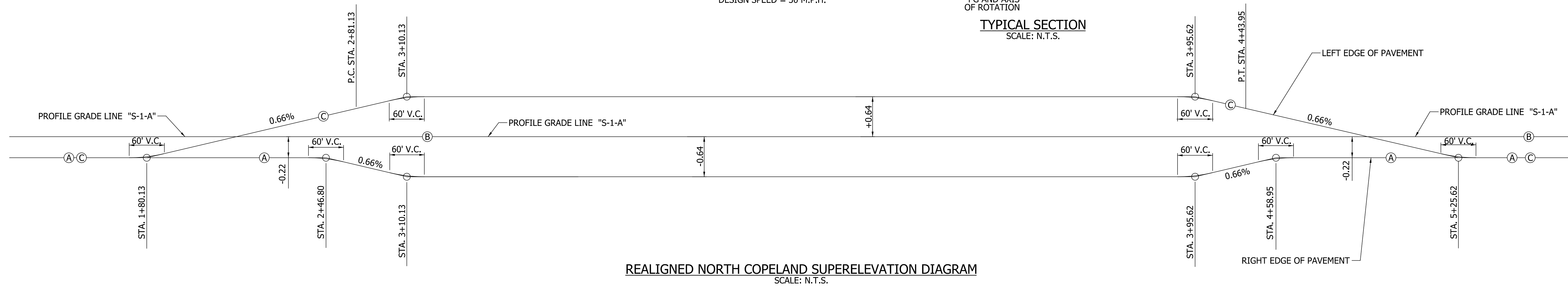
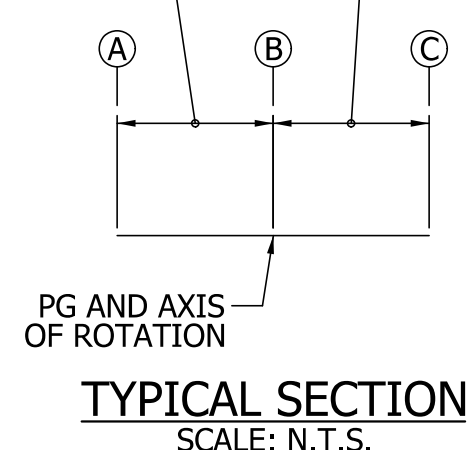
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE 1" = 5' BRIDGE FILE 062-39-10270 DESIGNATION 1701457
DESIGNED: MAK DRAWN: MAK CHECKED: JLD CHECKED: JLD	SR 62 OVER TODDY'S BRANCH PLAN AND PROFILE - 2	SURVEY BOOK DWG. NO. SHEET NO. PP-02 10 of 29 CONTRACT B-40421 PROJECT 1701457

CURVE DATA
P.I. STA. 34+31.65 "PR-A"
RADIUS = 2220.00'
S.E. RATE = 4.0%
DESIGN SPEED = 45 M.P.H.



CURVE DATA
P.I. STA. 3+64.60 "S-1-A"
RADIUS = 300.00'
S.E. RATE = 5.8%
DESIGN SPEED = 30 M.P.H.

Varies from 7'-0" to 11'-0" Varies from 7'-0" to 11'-0"

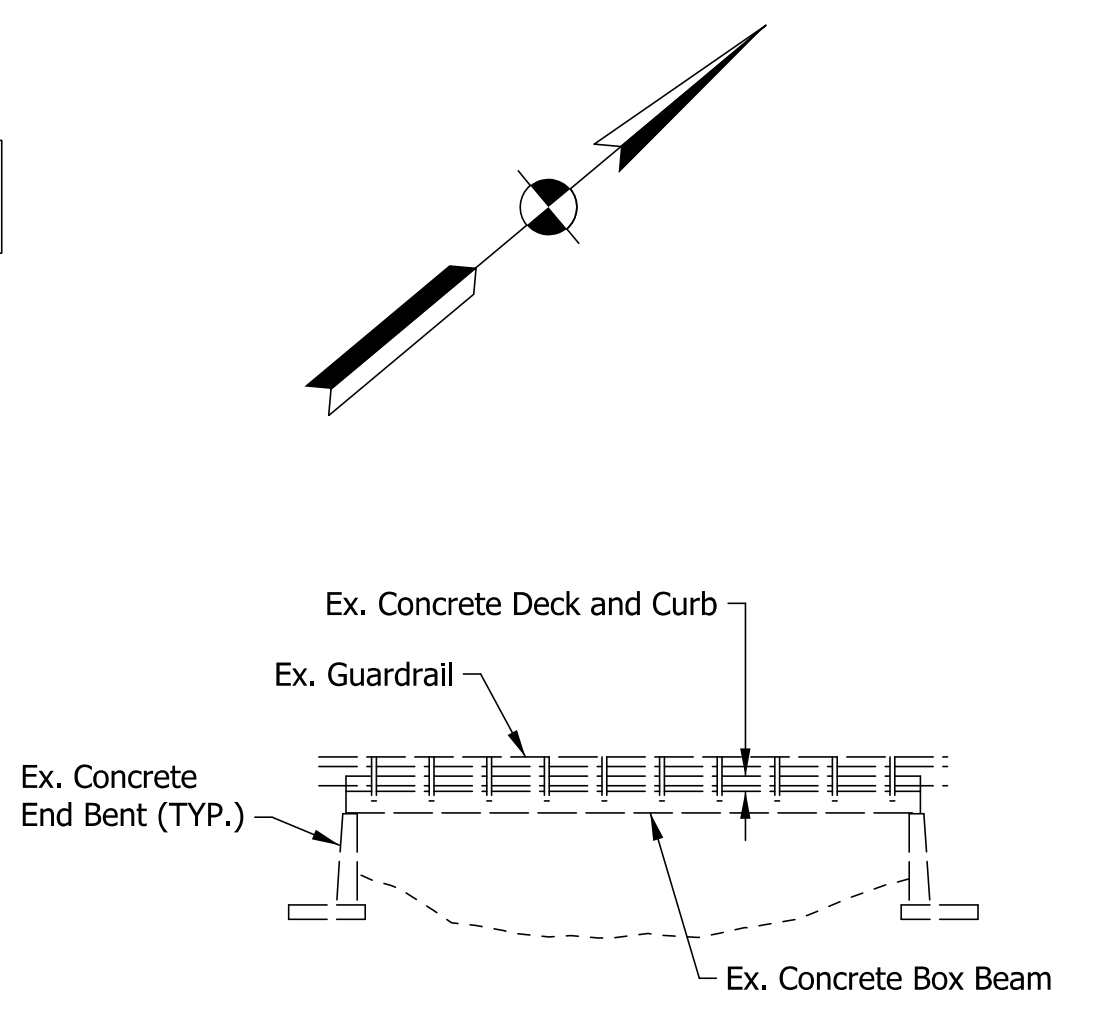
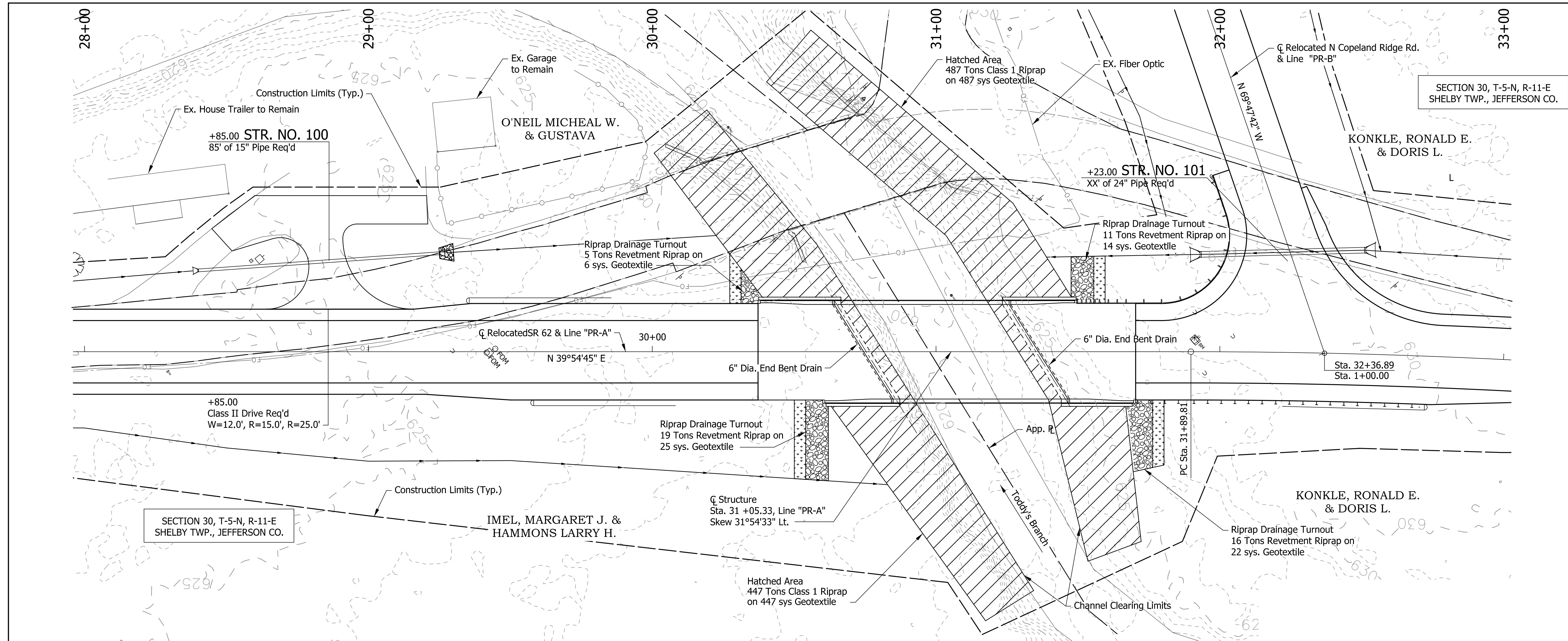


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RECOMMENDED FOR APPROVAL _____	
DESIGNED: MAK	DRAWN: JDG
CHECKED: SJA	CHECKED: SJA

INDIANA DEPARTMENT OF TRANSPORTATION	
SR 62 OVER TODDY'S BRANCH SUPERELEVATION DIAGRAM	

HORIZONTAL SCALE	BRIDGE FILE	
As Noted	062-39-10270	
VERTICAL SCALE	DESIGNATION	
As Noted	1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.
	SE-01	11 of 29
CONTRACT	PROJECT	
B-40421	1701457	



EXISTING STRUCTURE

The existing structure is a single span concrete box beam bridge with a reinforced concrete deck; built in 1968;
 Span: 58'-6"
 Clear roadway: 31'-9"
 Substructures: End Bents have concrete spread footings.
 Existing structure to be removed.

HYDRAULIC DATA

Drainage Area	4.05 sq. mile
Q100 Discharge	2,600 cfs
Q100 Elevation	627.31 ft
Backwater at Q100	-0.69 ft
Velocity at Q100	5.90 ft/sec
Waterway Opening Required	413.85 sft
Waterway Opening provided	440.80 sft
Min. Low Structure Elevation Provided	628.29 ft
Skew	31°54'33"
Q100 Scour Elevation	617.74 ft
Q500 Scour Elevation	617.74 ft
Road Overflow Waterway Area	0 sft
Existing Road Overflow Waterway Area	0 sft
Existing Waterway Opening	341.70 sft
Existing Low Structure Elevation	628.77 ft
Existing Backwater	0.03 ft
Existing Road Overflow Area	0 sft
Flow Line Elevation	620.00 ft

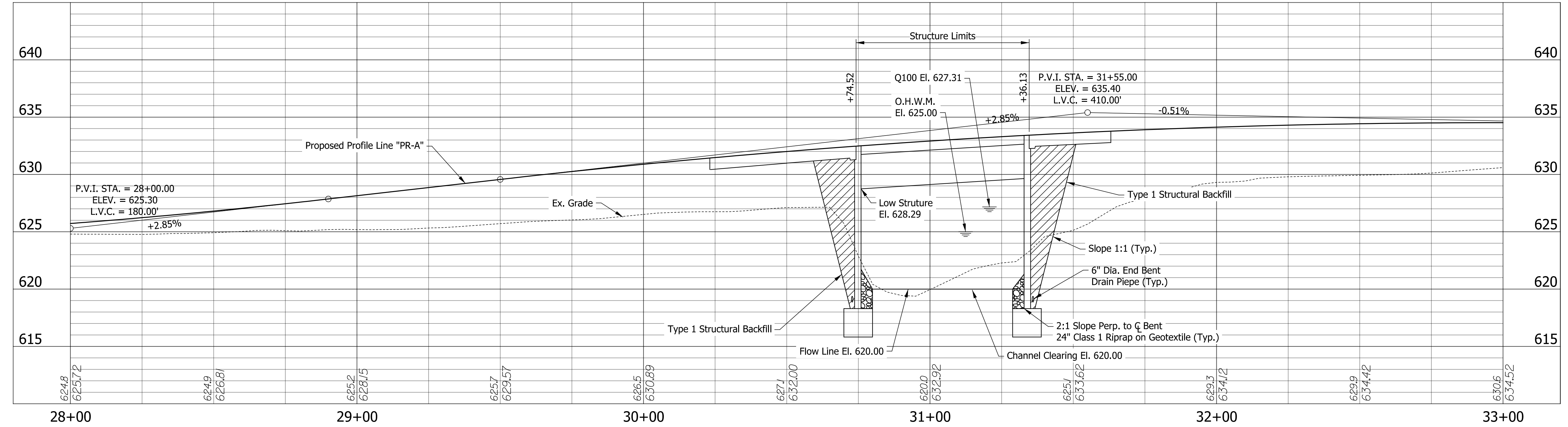
HYDRAULIC SCOUR DATA

Q100 Discharge	2,600 cfs
Max Velocity at Q100	7.60 ft/s
Q100 Scour Depth (Contraction)	0.0 ft
Q100 Scour Depth (Total)	0.0 ft
Q100 Low Scour Elevation	617.74 ft
Q500 Discharge	3,640 cfs
Max Velocity at Q500	9.52 ft/sec
Q500 Scour Depth (Contraction)	0.0 ft
Q500 Scour Depth (Total)	0.0 ft
Q500 Low Scour Elevation	617.74 ft

EARTHWORK TABULATION

Earthwork will be included with Stage 3

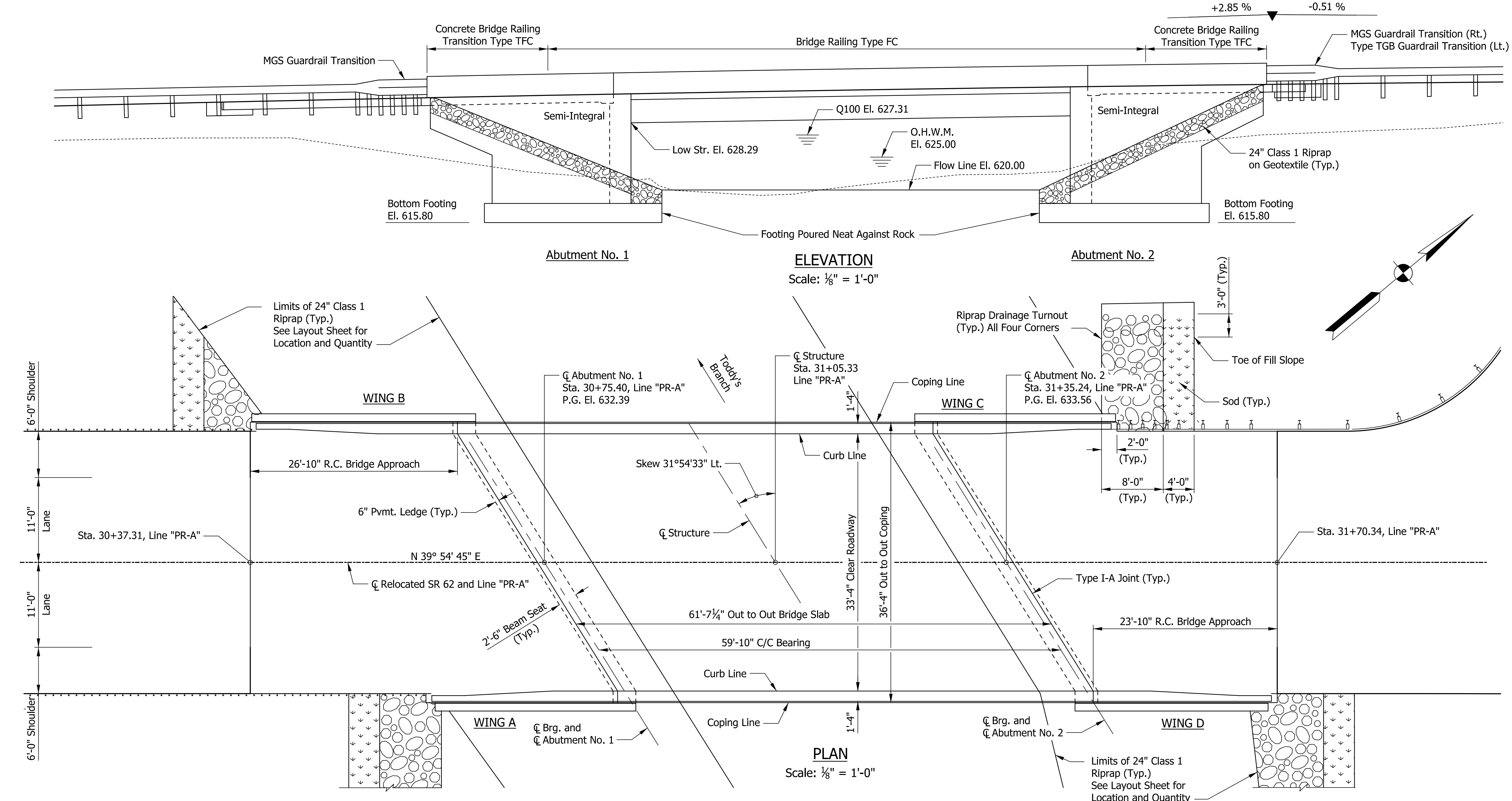
PRESTRESSED CONCRETE I-BEAM TYPE II BRIDGE
 SPAN: 59'-10"
 SKEW: 31° 54' 33" LEFT
 33'-4" CLEAR ROADWAY
 SR 62 OVER TODDY'S BRANCH
 JEFFERSON COUNTY



5/14/2020
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION SR 62 OVER TODDY'S BRANCH LAYOUT	HORIZONTAL SCALE	BRIDGE FILE
DESIGNED: SJA	DRAWN: JDG			1" = 20'	062-39-10270
CHECKED: XAC	CHECKED: XAC			VERTICAL SCALE	DESIGNATION
				1" = 5'	1701457
				SURVEY BOOK	DWG. NO.
					LY-01
				CONTRACT	SHEET NO.
				B-40421	12 of 29
					PROJECT
					1701457

STRUCTURE TO BE BUILT ON A 410' VERTICAL CURVE



GENERAL NOTES:

- Plans for existing structure are on file in the Central Office as Structure No. 62-39-05946 and are available upon request.
- Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slabs, 3" in footings except 4" in bottom of footings and 2" in all other parts, unless noted.
- The following locations shall be Surface Sealed:
Top of Bridge Deck, Copings, all exposed surfaces of Concrete Railings, Concrete Bridge Deck, and RCBA's.

DESIGN DATA

Designed to HL-93 loadings, in accordance with AASHTO LRFD Bridge Design Specifications, 8th edition, 2017.

DEAD LOAD

Actual weight plus 35 P.S.F. (Composite) for future wearing surface and 15 P.S.F. (Non-Composite) for permanent metal deck forms.

FLOOR SLAB

Designed with a 7 1/2" structural depth plus 1/2" sacrificial wearing surface.

DESIGN STRESSES

CONCRETE

Class C	fc = 4,000 PSI
Class B	fc = 3,000 PSI
Class A	fc = 3,500 PSI

REINFORCING STEEL

Grade 60	fy = 60,000 PSI
----------	-----------------

CONSTRUCTION LOADING

The exterior beam has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior beam. The finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the beam bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lbs./sq.ft. for permanent metal stay-in-place deck forms, removable deck forms and 2 ft. exterior walkway.

CONSTRUCTION LIVE LOADS

Designed for 20 lbs./sq.ft. extending 2 ft. past the edge of coping and 75 lbs./sq.ft. vertical force applied at a distance of 6" outside the face of coping over a 30 ft. length of the deck centered with the finishing machine.

FINISHING-MACHINE LOAD

4500 lbs. distributed over 10 ft. along the coping.

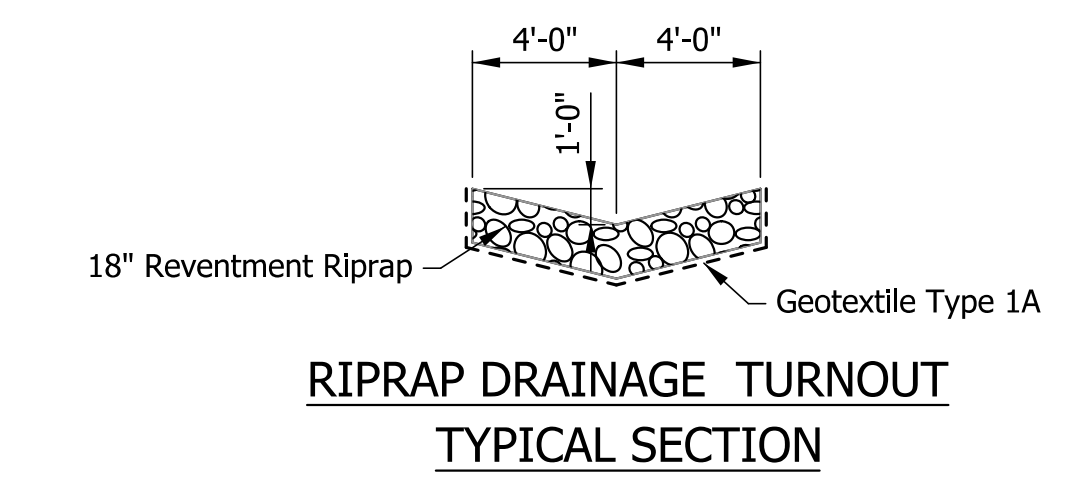
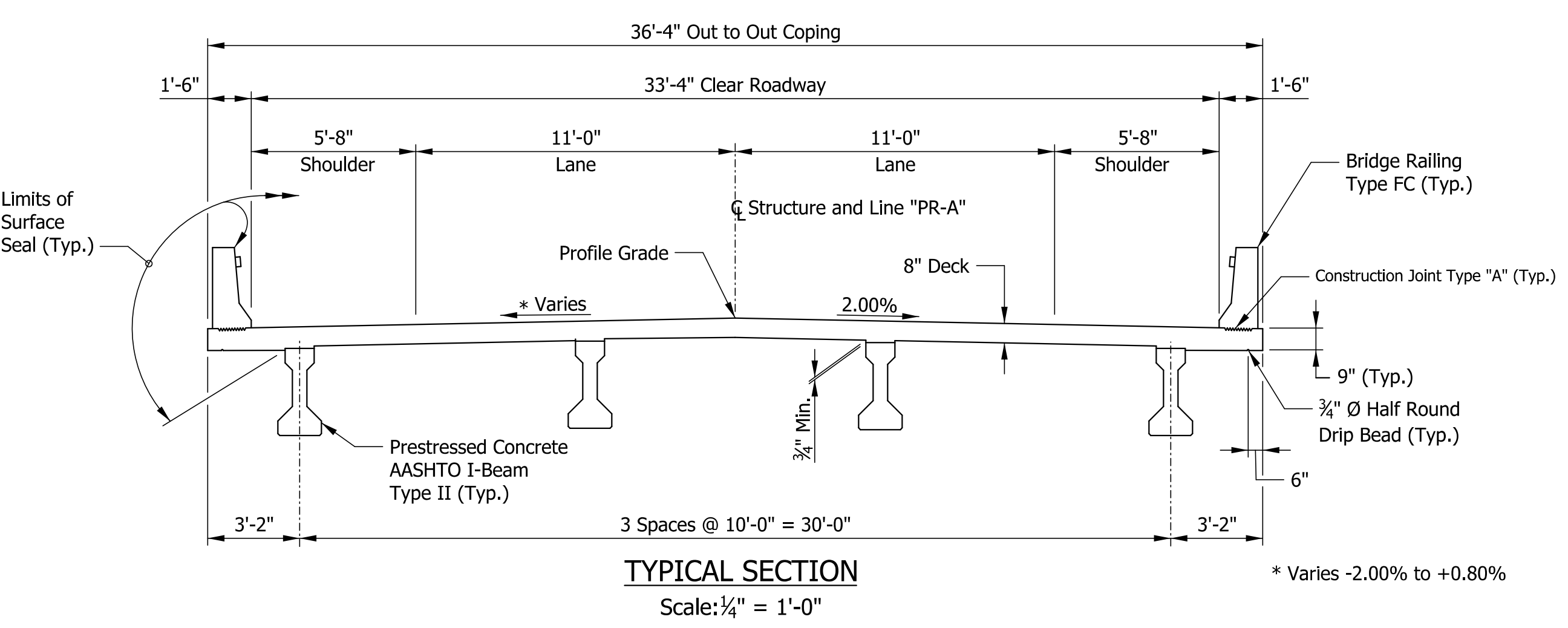
WIND LOAD

Structure designed for 70mph horizontal wind loading in accordance with LRFD 3.8.1.

SEISMIC DESIGN LOAD

Seismic Performance Zone	Zone 1
Acceleration Coefficient	0.059
Seismic Soil Profile Type	Class B

PRESTRESSED CONCRETE I-BEAM TYPE II BRIDGE
SPAN: 59'-10"
SKEW: 31° 54' 33" LEFT
33'-4" CLEAR ROADWAY
SR 62 OVER TODDY'S BRANCH
JEFFERSON COUNTY



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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
DESIGNED: SJA	DRAWN: JDG			As Noted	062-39-10270
CHECKED: XAC	CHECKED: SJA		SR 62 OVER TODDY'S BRANCH GENERAL PLAN	VERTICAL SCALE	DESIGNATION
				As Noted	1701457
				SURVEY BOOK	DWG. NO.
			B-40421	GP01	13 of 29
				CONTRACT	PROJECT
				B-40421	1701457

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			RAILING, CONC, FC CYS	REINF. STEEL LBS	EPOXY COATED REINF. STEEL LBS	PATCHING, CLASS A CONC. CYS	EPOXY INJECTION LFT	CONC. RAILING TRANSITION, IFC EACH	SURFACE SEAL* SFT	BARRIER DELINEATOR EACH	PRESENT STRUCTURE, REMOVE PORTIONS LSUM	TERMINAL JOINT LFT	AGG. FOR END BENT BACKFILL CYS	GEOTEXTILES, IA, 1A SYS	REINF. CONC. BRIDGE APPR. 12" SYS	DENSE GRADED SUBBASE CYS	CLASS 1 RIPRAP TONS	DECK DRAIN TYPE OS EACH	I-BEAM TYPE II LFT	TIE-BAR ASSY, EPOXY COATED EACH	GEOTEXTILES, 1B SYS	
	CLASS C SUPER-STRUCT. CYS	CLASS C SUB-STRUCT. CYS	CLASS A SUB-STRUCT. CYS																				
SUPERSTRUCTURE																							
BENT NO. 1																							
BENT NO. 2																							
R.C. BRIDGE APPROACH at BENT No. 1																							
R.C. BRIDGE APPROACH at BENT No. 2																							
TOTAL	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0.00	0	0.00	0.00	0	0	0.00	0	0	

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	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION SR 62 OVER TODDY'S BRANCH BRIDGE SUMMARY	HORIZONTAL SCALE As Noted	BRIDGE FILE 062-39-10270
	DESIGNED: - DRAWN: -		VERTICAL SCALE As Noted	DESIGNATION 1701457
	CHECKED: -			SURVEY BOOK
			CONTRACT B-40421	PROJECT 1701457

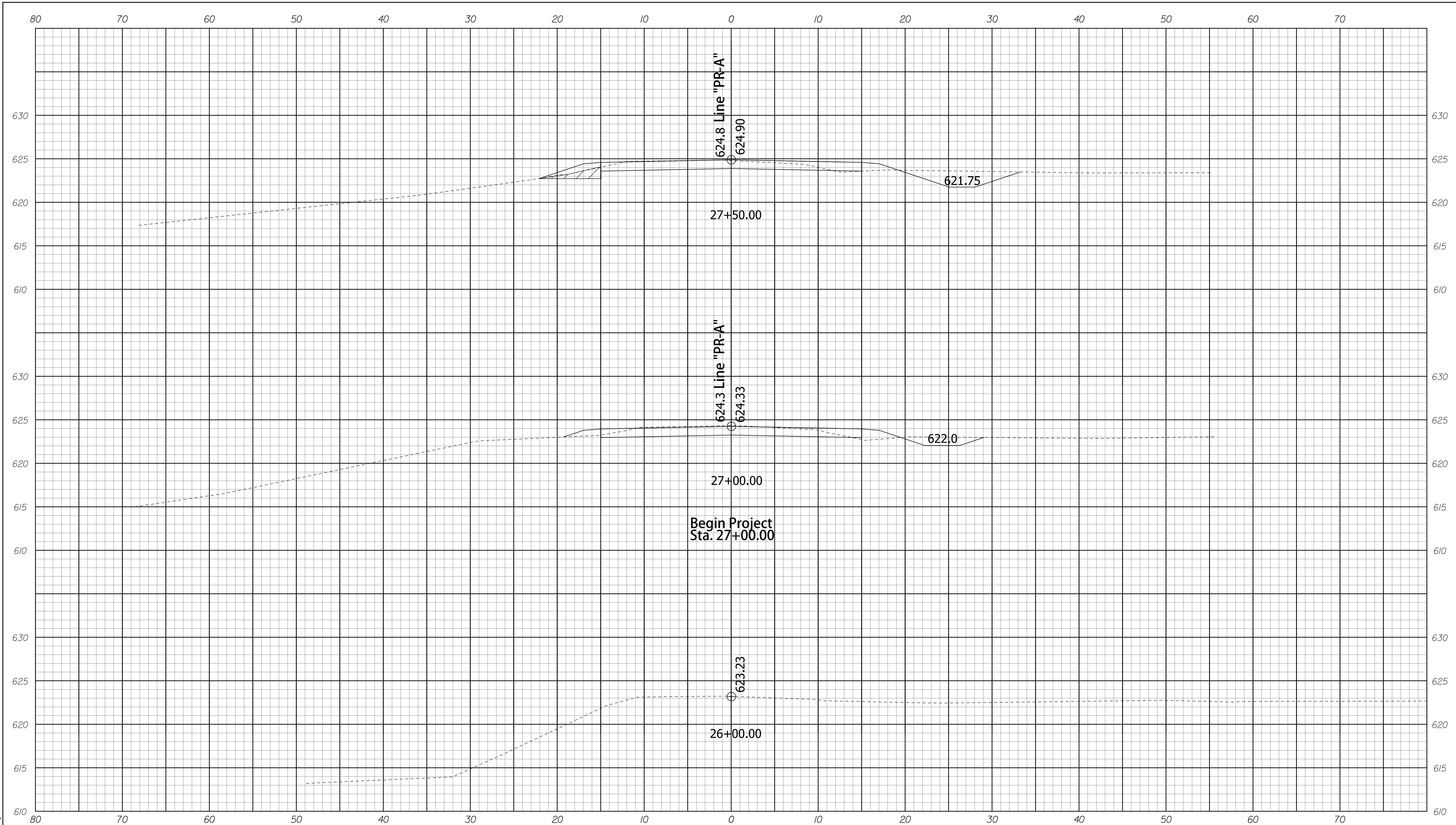
SUMMARY OF APPROACH QUANTITIES														REMARKS
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGT	EXCAVATION,	PAVEMENT	CATH BASIN,	COMPACTED	COMPACTED	GUARDRAIL,	GUARDRAIL	GUARDRAIL	12" SLOTTED	6"	
		"W"	H "L"	COMMON	REMOVAL	REMOVAL	AGGREGATE	AGGREGATE	REMOVE	MGS, HEIGHT	MGS	TRANSITION	DRAIN	
		FT	FT	CYS	SYS	EA	CYS	CYS	FT	EA	EA	FT	FT	
ROADWAY	APPROACH													
TOTAL														

PERMANENT AND TEMPORARY EROSION CONTROL SUMMARY SHEET							REMARKS
LOCATION			Filter Sock	EROSION CONTROL BLANKET	EXCELSIOR LOG	SODDING	
			LFT	SYS	LFT	SYS	
TOTAL							

GUARDRAIL TABLE							REMARKS
EAST APPROACH	WEST APPROACH	LOCATION			MGS Height Transition	MGS Guardrail Transition	
		LEFT	MEDIAN	RIGHT			
					EACH	Each	
		TOTAL					

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE As Noted	BRIDGE FILE 062-39-10270
	DESIGNED: - DRAWN: -	CHECKED: - CHECKED: -	SR 62 OVER TODDY'S BRANCH ROADWAY SUMMARY	
			SURVEY BOOK CONTRACT B-40421	DWG. NO. RS-01



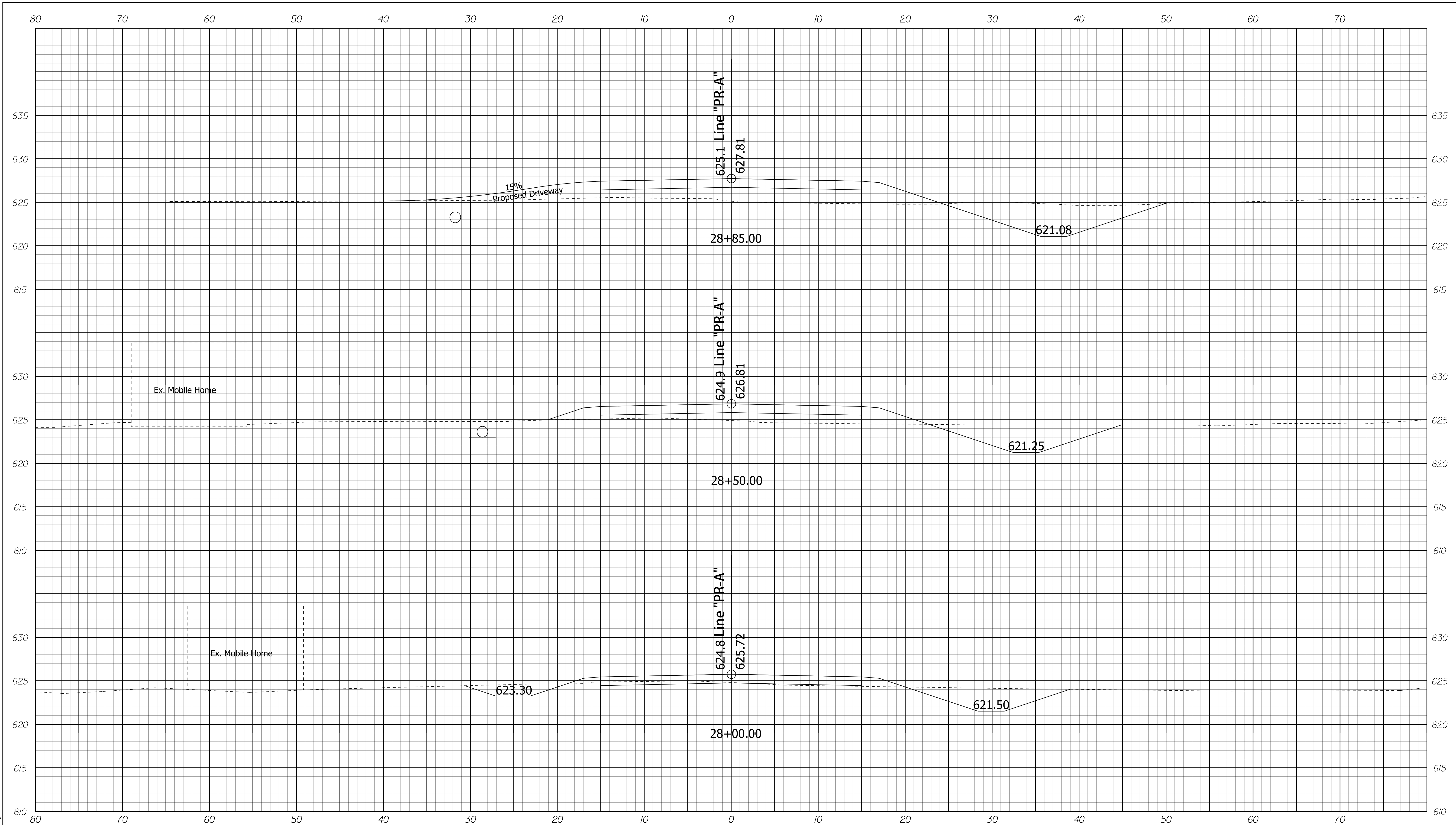
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: SJA	DRAWN: JDG		
CHECKED: XAC	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"
STA. 26+50.00 TO 27+50.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-01	SHEET NO. 16 of 29
CONTRACT R-40421	PROJECT 1701457	

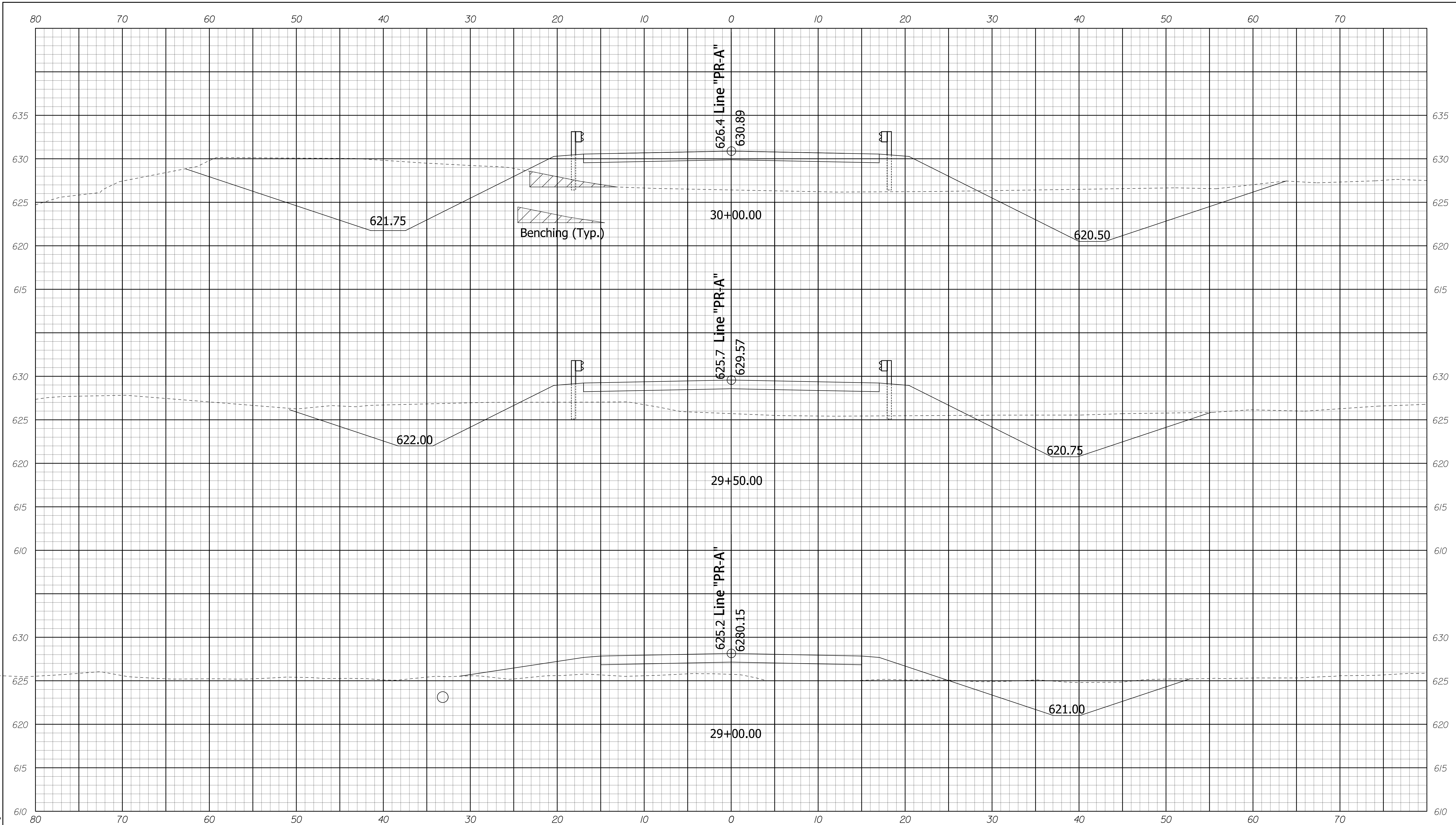


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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: SJA	DRAWN: JDG		
CHECKED: XAC	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE "PR-A"
STA. 28+00.00 TO 28+85.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-02	SHEET NO. 17 of 29
CONTRACT R-40421	PROJECT 1701457	



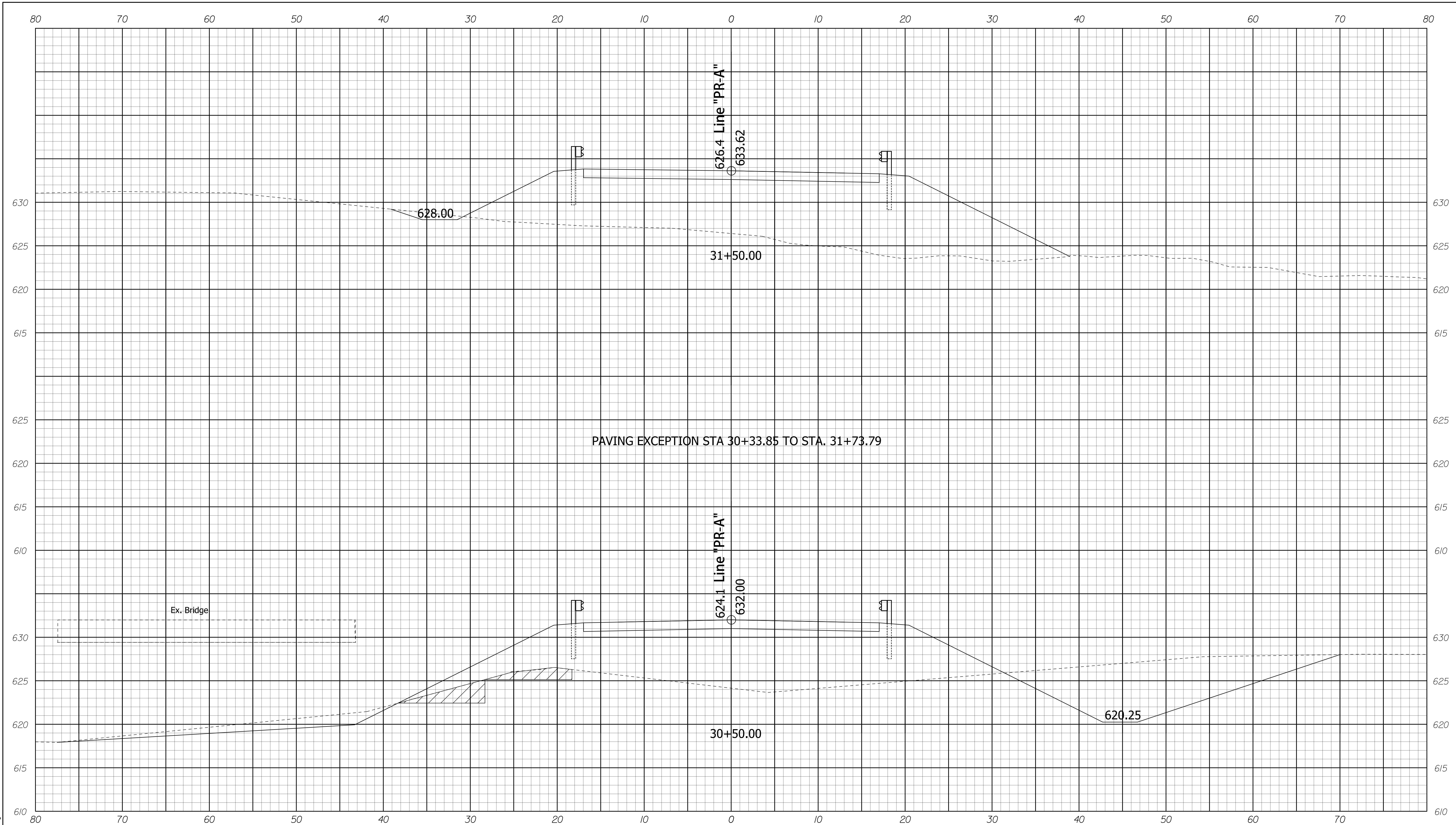
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: SJA	DRAWN: JDG		
CHECKED: XAC	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"
STA. 29+00.00 TO 30+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-03	SHEET NO. 18 of 29
CONTRACT R-40421	PROJECT 1701457	

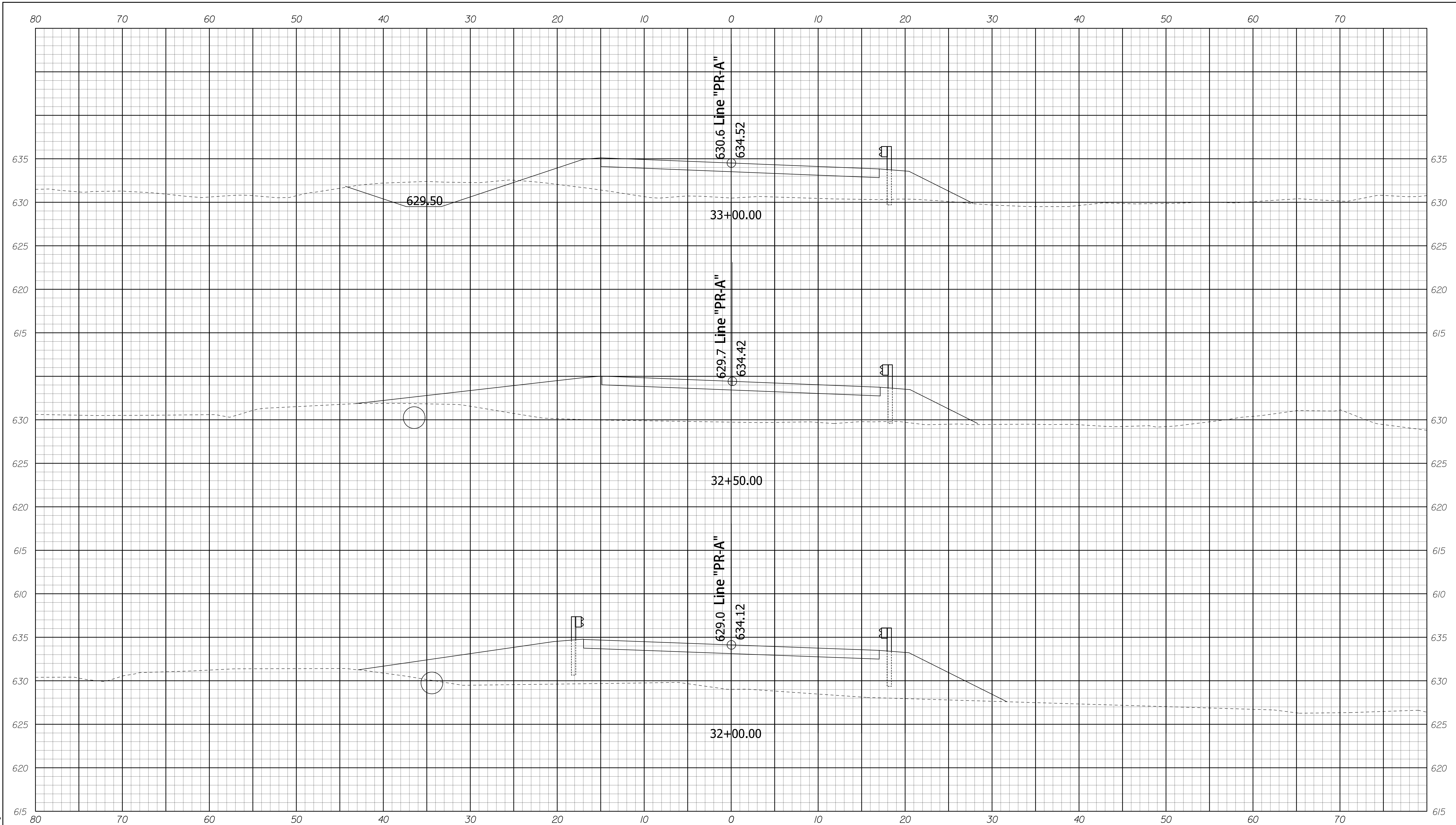


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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED:	SJA	DRAWN:	JDG		
CHECKED:	XAC	CHECKED:	SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE "PR-A"
STA. 30+50.00 TO 31+50.00

HORIZONTAL SCALE	BRIDGE FILE	
1" = 5'	062-39-10270	
VERTICAL SCALE	DESIGNATION	
1" = 5'	1701457	
SURVEY BOOK	DWG. NO.	SHEET NO.
	XS-04	19 of 29
CONTRACT	PROJECT	
R-40421	1701457	



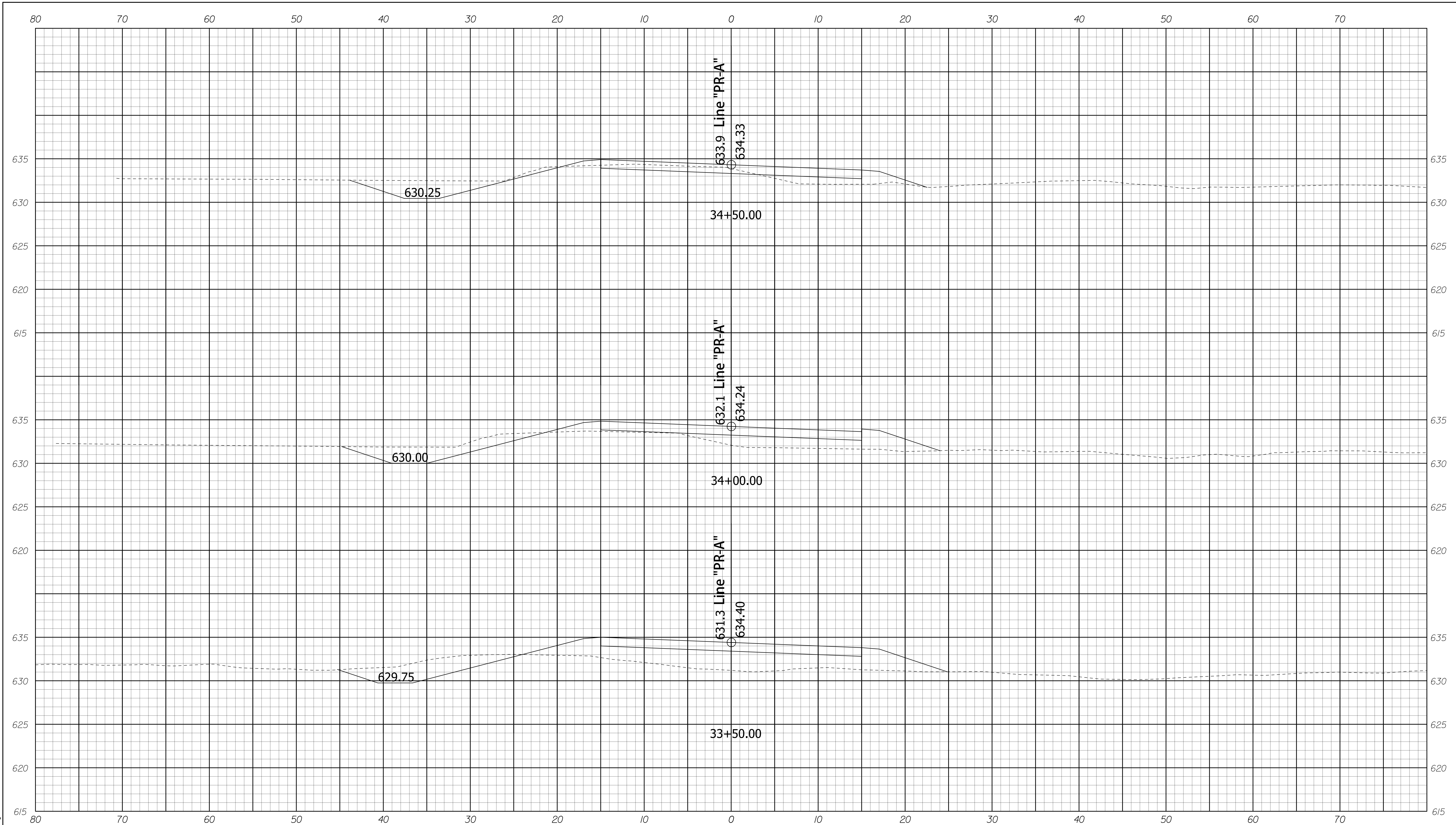
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: SJA	DRAWN: JDG		
CHECKED: XAC	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"
STA. 32+00.00 TO 33+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-05	SHEET NO. 20 of 29
CONTRACT R-40421	PROJECT 1701457	

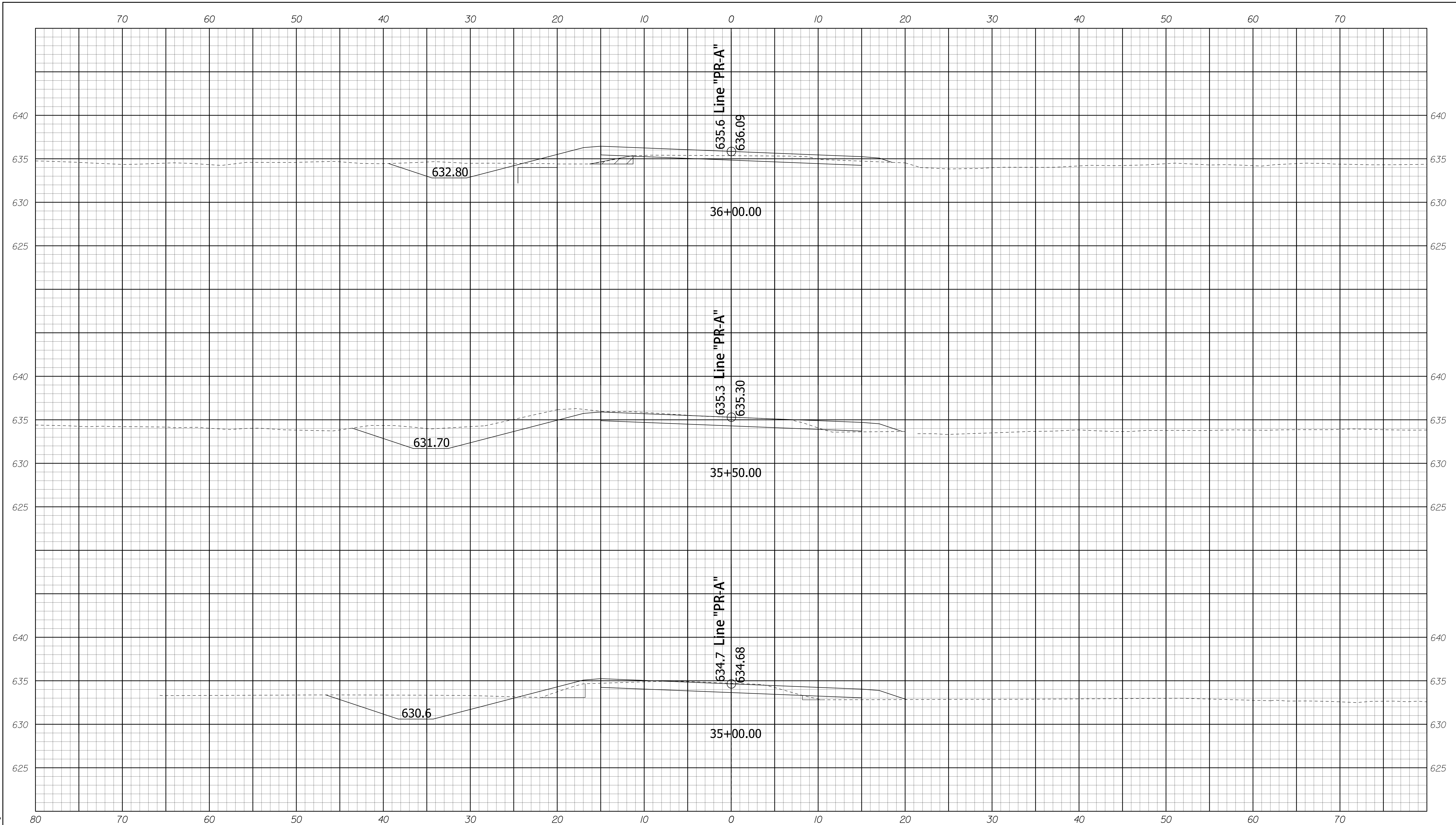


5/14/2020 10:428 PM
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: SJA	DRAWN: JDG		
CHECKED: XAC	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE "PR-A"
STA. 33+50.00 TO 34+50.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-06	SHEET NO. 21 of 29
CONTRACT R-40421	PROJECT 1701457	



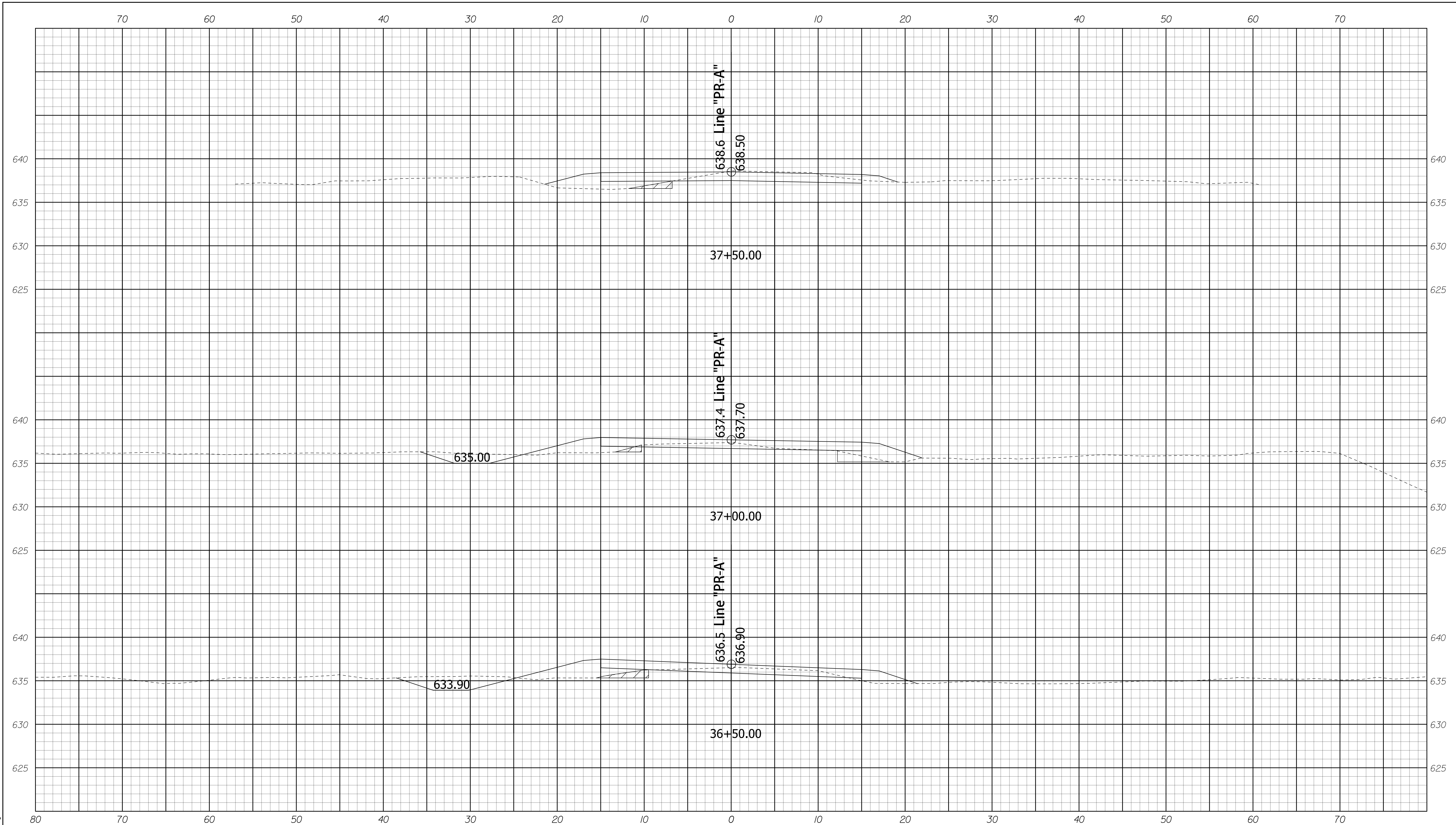
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: SJA	DRAWN: JDG				
CHECKED: XAC	CHECKED: SJA				

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"
STA. 35+00.00 TO 36+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-07	SHEET NO. 22 of 29
CONTRACT R-40421	PROJECT 1701457	



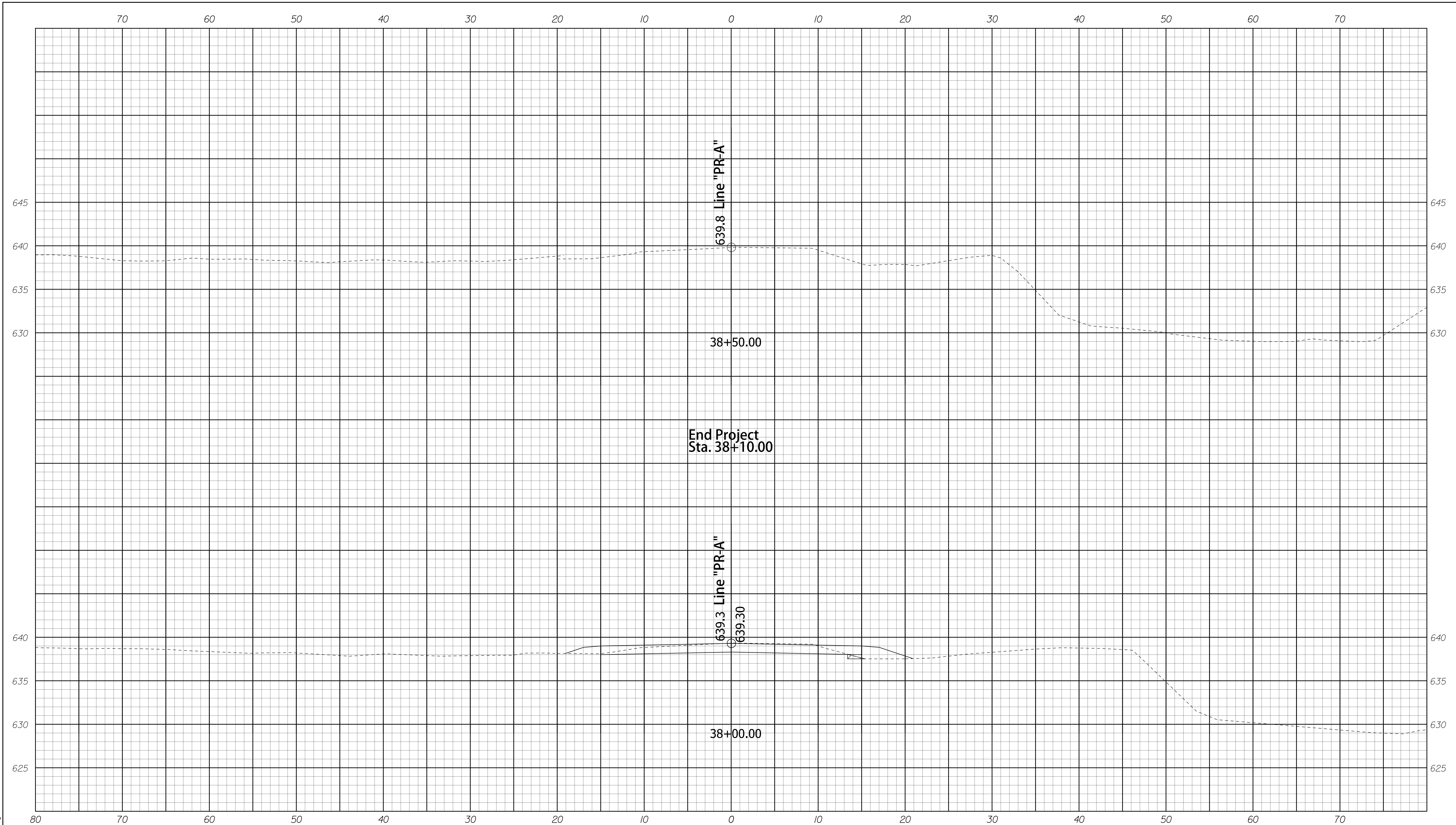
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: SJA	DRAWN: JDG				
CHECKED: XAC	CHECKED: SJA				

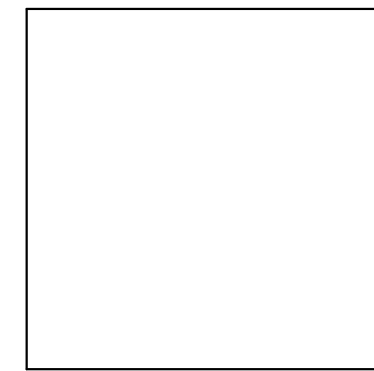
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"
STA. 36+50.00 37+50.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-08	SHEET NO. 23 of 29
CONTRACT R-40421	PROJECT 1701457	



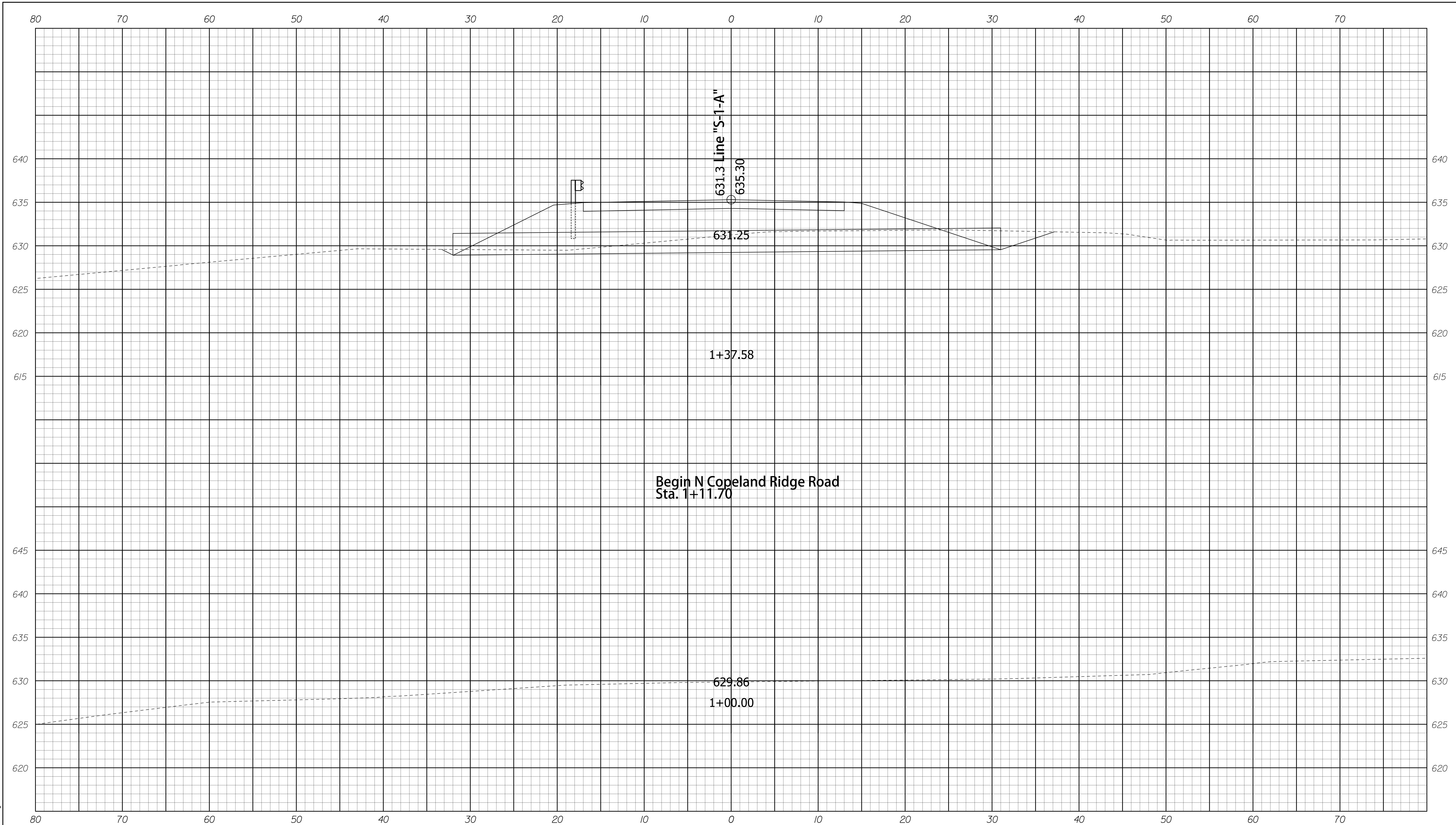
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: SJA	DRAWN: JDG				
CHECKED: XAC	CHECKED: SJA				

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE "PR-A"
STA. 38+00.00 38+50.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-09	SHEET NO. 24 of 29
CONTRACT R-40421	PROJECT 1701457	



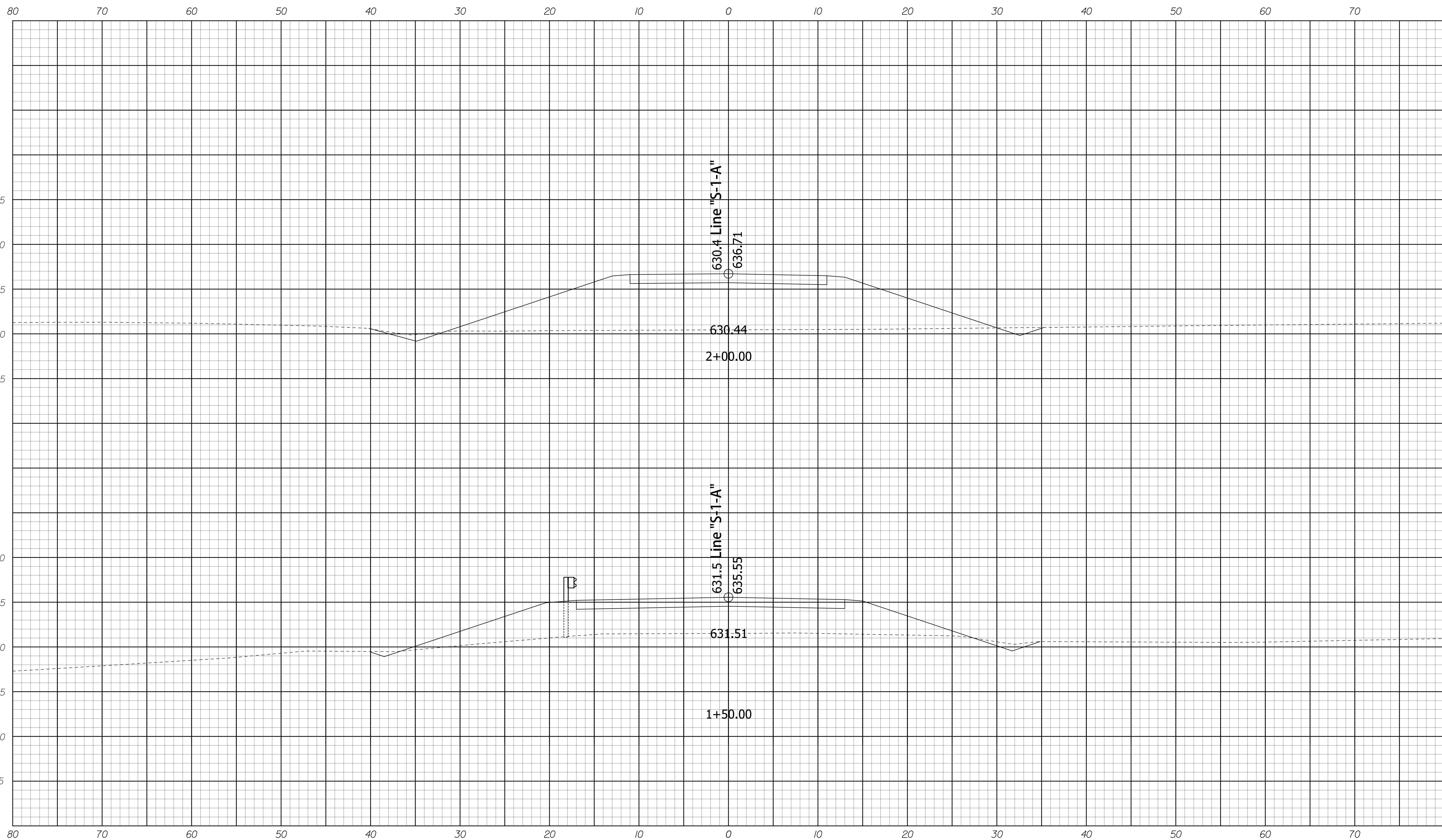
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: MAK	DRAWN: JDG				
CHECKED: SJA	CHECKED: SJA				

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"
STA. 1+00.00 TO 1+37.58

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK XS-10	DWG. NO. 25	SHEET NO. of 29
CONTRACT R-40421	PROJECT 1701457	



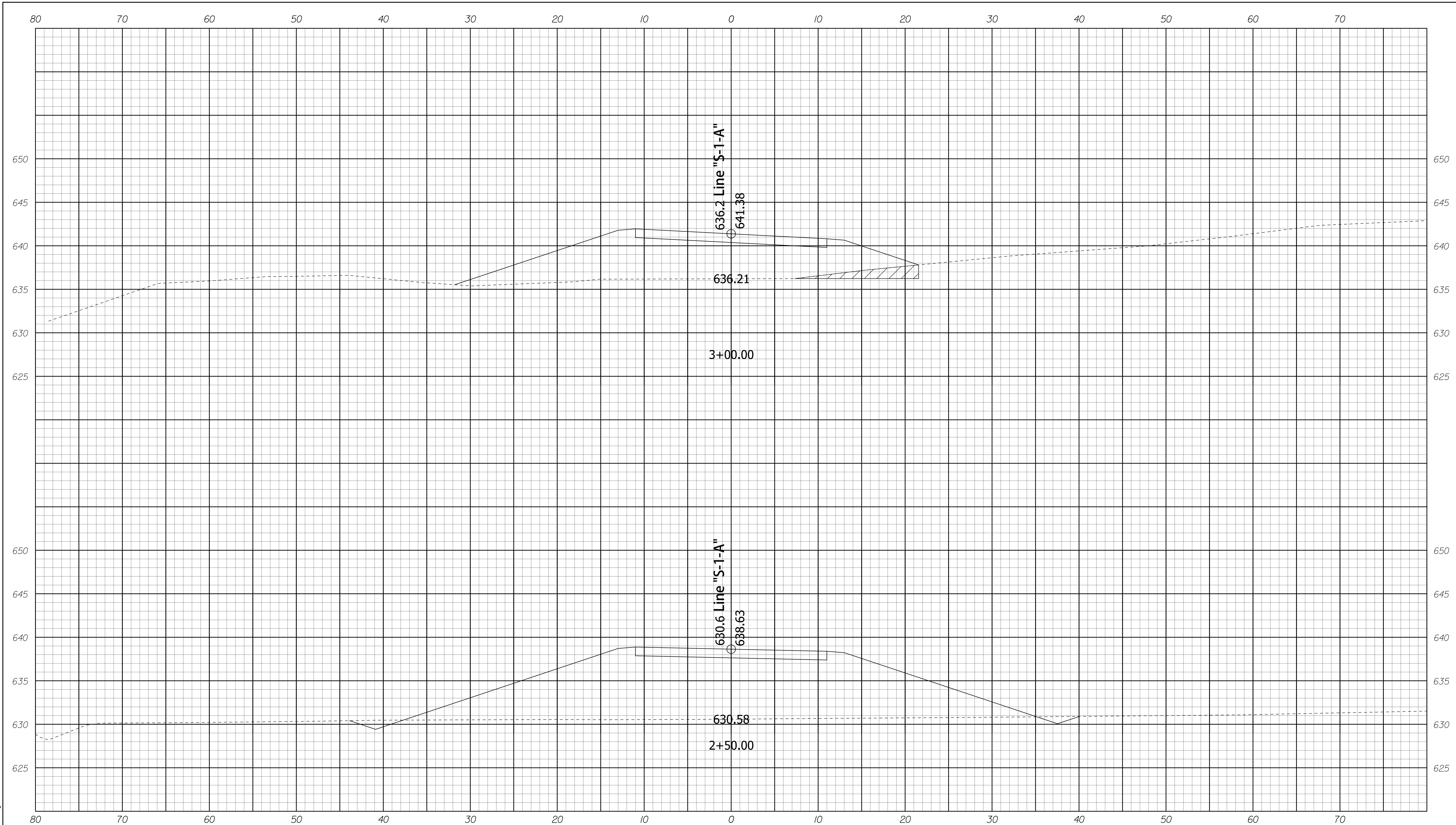
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: MAK	DRAWN: JDG				
CHECKED: SJA	CHECKED: SJA				

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"
STA. 1+50.00 TO 2+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-11	SHEET NO. 26 of 29
CONTRACT R-40421	PROJECT 1701457	



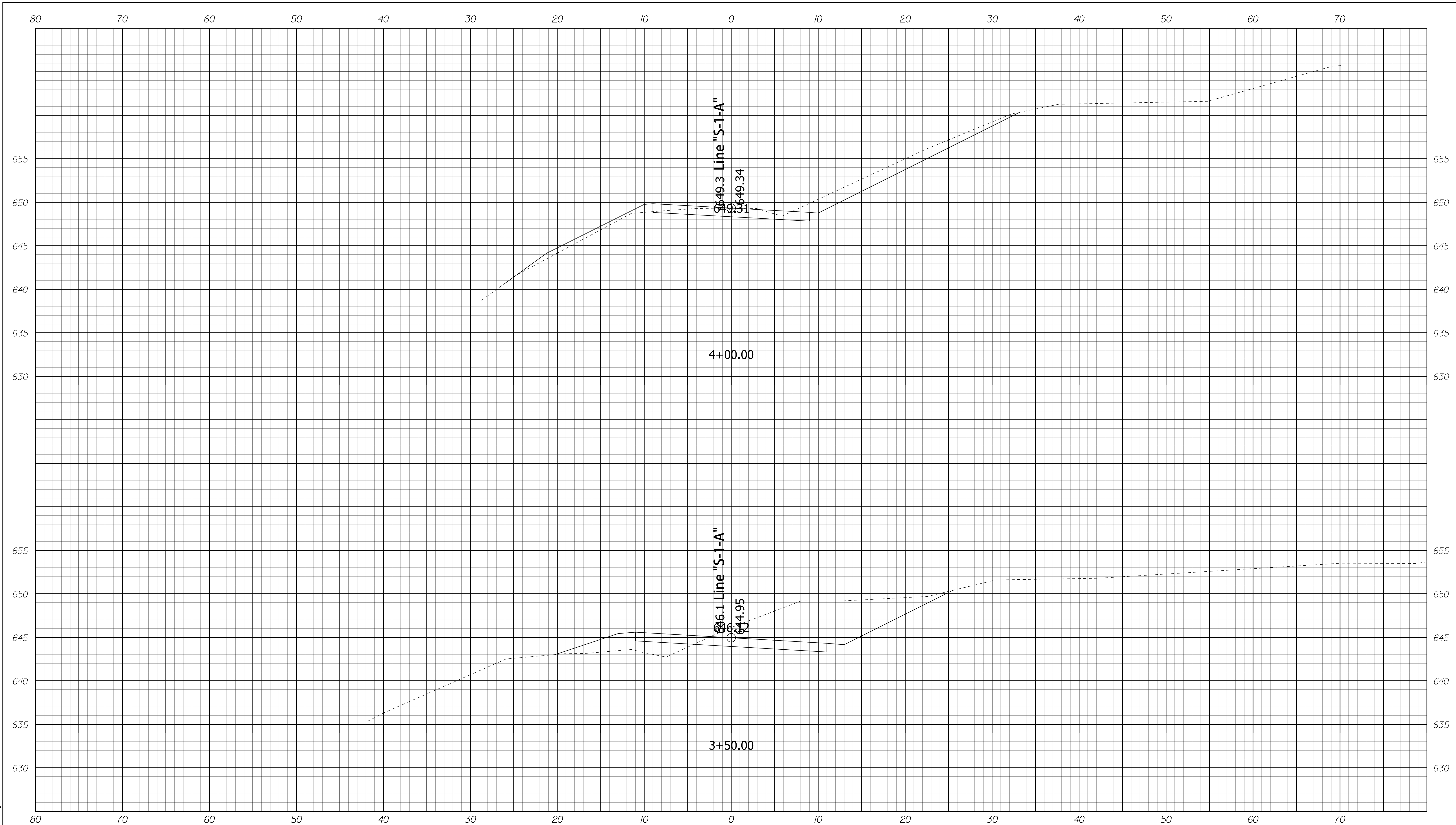
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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: MAK	DRAWN: JDG		
CHECKED: SJA	CHECKED: SJA		

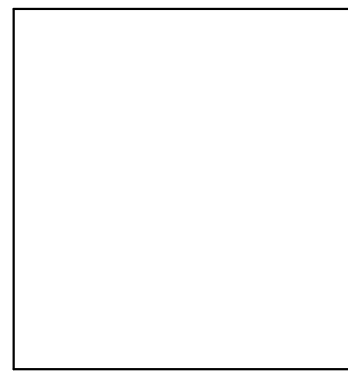
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"
STA. 2+50.00 TO 3+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-12	SHEET NO. 27 of 29
CONTRACT R-40421	PROJECT 1701457	



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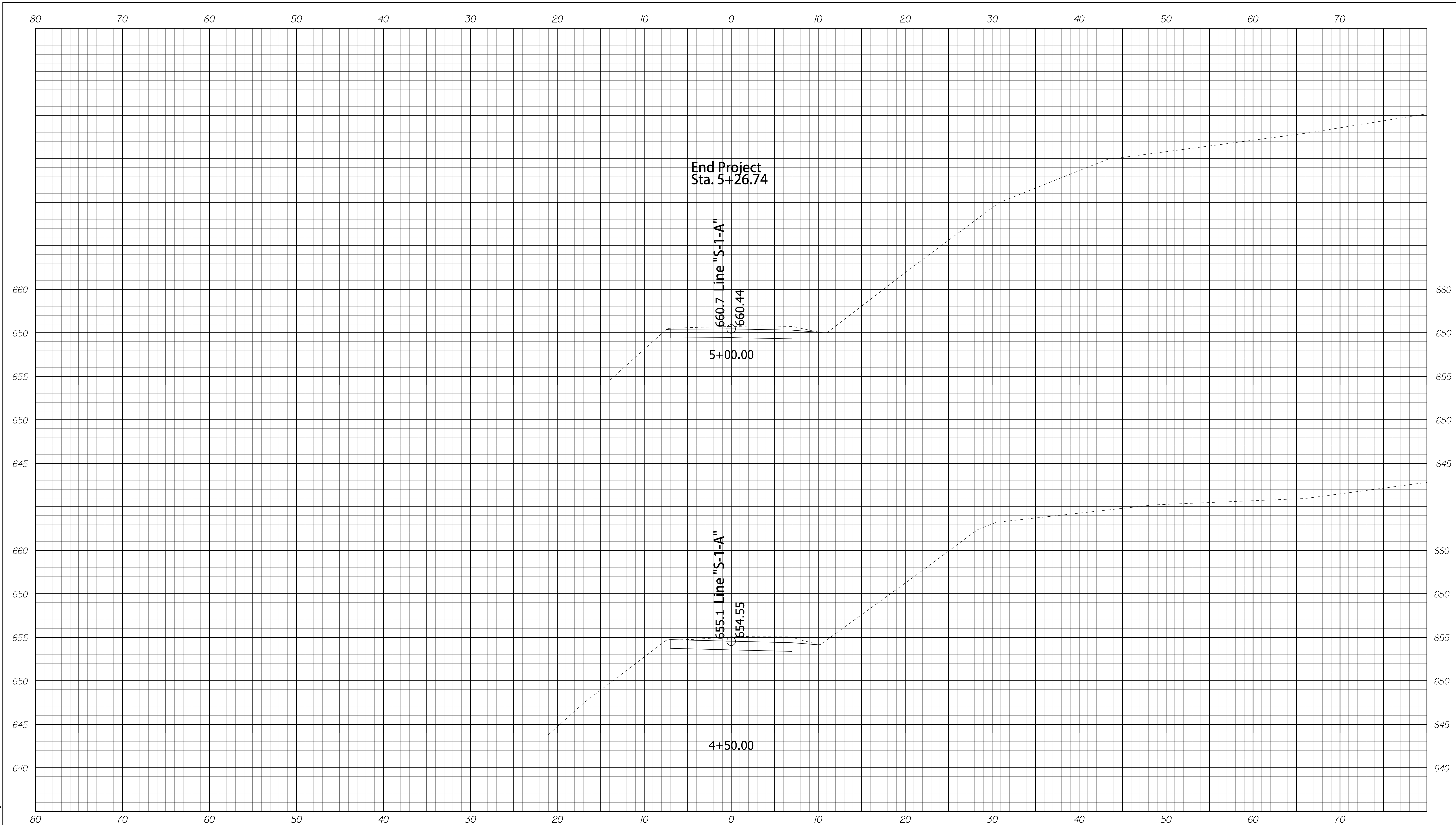


RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: MAK	DRAWN: JDG				
CHECKED: SJA	CHECKED: SJA				

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"
STA. 3+50.00 TO 4+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK XS-13	DWG. NO. 28	SHEET NO. of 29
CONTRACT R-40421	PROJECT 1701457	



End Project
Sta. 5+26.74

Line "S-1-A"

660.7
660.44

5+00.00

Line "S-1-A"

655.1
654.55

4+50.00

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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: MAK	DRAWN: JDG		
CHECKED: SJA	CHECKED: SJA		

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"
STA. 4+50.00 TO 5+00.00

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 062-39-10270	
VERTICAL SCALE 1" = 5'	DESIGNATION 1701457	
SURVEY BOOK	DWG. NO. XS-14	SHEET NO. 29 of 29
CONTRACT R-40421	PROJECT 1701457	