PROJECT	DESIGNATION
1702992	1702992
CONTRACT	
R-41437	

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1900049	US 20 From 0.15 Miles East Of US 35 To A Point 1.25 Miles East Of US 35 Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings.
1900050	US 20 From 3.1 Miles East Of SR 39 To A Point 4.85 Miles East Of SR 39 Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings.
1702993	US 20 From SR 39 To 2.88 Miles East Of SR 39 (Fail Rd.) Including Adding A Two-way Left Turn Lane, Improve And Widen Shoulders, Replace Or Add New Pavement Markings.

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS
US 20

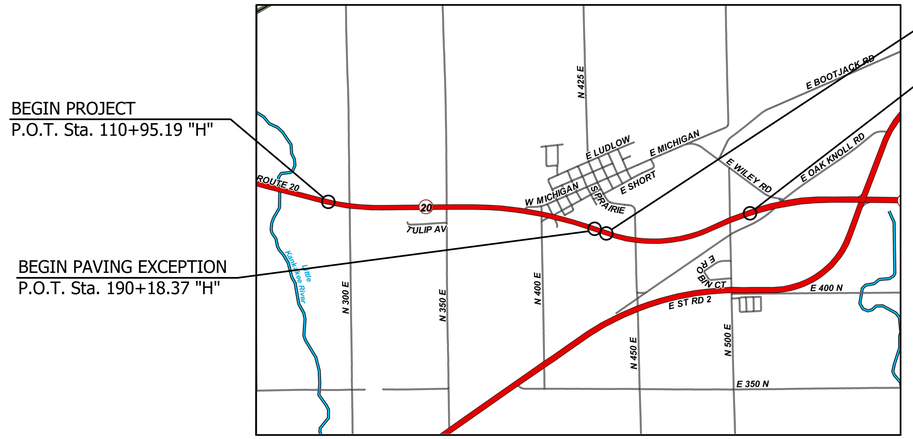
PROJECT NO. 1702992 P.E.
1702992 R/W
1702992 CONST.

Improvements To US 20 From 4.8 Miles East Of SR 39 (C.R. 300 E) To 7.2 Miles East Of SR 39 (C.R. 500 E) Including Adding A Two-way Left Turn Lane And Widened Shoulders, In Sections 10 And 11, Township 37 N, Range 2 West, Kankakee Township, LaPorte County

GROSS LENGTH: 2.37 Mi.
NET LENGTH: 2.33 Mi.

SCALES:

PLAN {LONG:- 1"=50' TRANS:- 1"=50'} PROFILE {HORIZ:- 1"=50' VERT:- 1"=10'} MAX. GRADE- 3.60%



VICINITY MAP
LAPORTE COUNTY

TRAFFIC DATA		US 20	
A.A.D.T.	(2023)	26900	V.P.D.
A.A.D.T.	(2043)	32300	V.P.D.
D.H.V.	(2043)	2584	V.P.H.
DIRECTIONAL DISTRIBUTION		52/48	%
TRUCKS		36	% D.H.V.
		36	% A.A.D.T.
DESIGN DATA			
DESIGN SPEED		55 MPH (45MPH Through Rolling Prairie)	
FUNCTIONAL CLASSIFICATION		OTHER PRINCIPAL ARTERIAL	
TERRAIN		LEVEL	
RURAL/URBAN		RURAL	
ACCESS CONTROL		NONE	
PROJECT DESIGN CRITERIA		3R-NON FREEWAY	



PROJECT LOCATION SHOWN BY

Begin Approx. 41°40'23" N. Lat. & 86°38'36" W. Long.
End Approx. 41°40'17" N. Lat. & 86°36'02" W. Long.

RP 53+7 TO 56+0

HUC - 07120001010110
HUC - 07120001010120
HUC - 07120001010080

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2022 AND STANDARD DRAWINGS EFFECTIVE SEPTEMBER 2021 TO BE USED WITH THESE PLANS.

PLANS PREPARED BY: Butler Fairman and Seufert Inc. (317)713-4615 PHONE
CERTIFIED BY: DATE
APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
DESIGNATION	
1702992	
SURVEY BOOK	SHEET
	01 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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UTILITIES

CABLE:
Comcast
16 West 84th Drive
Merrillville, In. 46405
(224) 229-6850
Attn. Larry Smith
Larry Smith3@cable.comcast.com

COMMUNICATIONS:
AT&T Distrubition
107 Mariner Drive
Michigan City, In. 46360
(219) 972-5687
Attn. Rich Schulte
rs2763@att.com

COMMUNICATIONS:
Frontier Communications
2401 Chicago Street
Valparaiso, In. 46383
(219) 531-9237
Attn. Alison Bchanan
alison.buchanan@ftr.com

COMMUNICATIONS:
MCI-Verizon
Attn. Efrain Rodriguez
efrain.rodriguez@one.verizon.com

COMMUNICATIONS:
New Prairie United School Corporation
5327 North Cougar Road
New Carlisle, In. 46552
(574) 654-7273
Attn. Mark Norton
mnorton@npusc.k12.in.us

COMMUNICATIONS:
Windstream Com. (McCloud, Paetec, KDL
800 N. Durand Road
Corunna, Mi. 48817
(812) 253-1554
Attn. Christopher Rogers
christopher.rogers@windstream.com

COMMUNICATIONS:
Zayo Group (Job, 8)
9209 Castlegate Drive
Indianapolis, In. 46256
(765) 341-1199
Attn. Waylon Higgins
Waylon.higgins@zayo.com

GAS:
NIPSCO
1501 St. Rd. 2 West
Laporte, In. 46350
(219) 325-4284
Attn. Lisa Taylor
letaylor@nisource.com

ELECTRIC:
AEP Distribution
2929 Lathrop Street
South Bend, In. 46628
(574) 236-1658
Attn. Antonio Macias
amacias@aep.com

ELECTRIC:
AEP Transmission
8500 Smith's Mill Rd.
New Ablany, Oh. 43054
(614) 933-2297
Attn. Josh Adams
TL PublicProjects@aep.com

FIBER:
Century Link Fiber
100 S Cinncinnati Ave, Suite 1200
Tulsa, Ok. 74103
(918) 547-0547
Attn. Kendall Zetina
kendall zetina@centurylink.com

PETROLEUM:
BP Pipeline Co.
30 South Wacker Drive
Chicago, Il. 60606
(312) 809-4708
Attn. Keith Boyle
keith.boyle@bp.com

PETROLEUM:
Buckeye Partners, LP.
One TEK Parke, Suite 300
Breinigsville, Pa. 18031
(610) 841-4405
Attn. Tim Jaffe
tjaffe@jfkiely.com

REVISIONS

SHEET NO.	DATE	REVISED

GENERAL NOTES

	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
	Existing asphalt pavement located outside the construction limits, between Sta. OO+00 and Sta. 00+00 shall be removed as directed.
	The quantity of Peat "Excavation" as shown on the plans has been estimated on the basis of theoretical cross-sections by using treatment of existing fills, treatment by removal, or treatment by displacement where each treatment applies.
	Contractor shall verify the existing flowline elevation to set appropriate sump depth.

** REPRESENTS GENERAL NOTES REQUIRED

Utility Pot Hole Table *

12" STEEL GAS

Test Hole No.	Alignment	Northing	Easting	Depth	Station	Offset
TH #1	H	399780.82	816446.71	8.13	114+76.65	55.4' Lt.
TH #2	H	399671.82	816381.2	5.14	114+37.95	65.7' Rt.

* DEPTH TO TOP OF FACILITY FROM EXISTING GROUND

See Plan & Profile Sheet No. 56 For More Information.

INDEX

SHEET NO.	DESIGNATION
01	TITLE SHEET
02	INDEX SHEET
03-08	TYPICAL CROSS SECTION
09-17	PLAT NO. 1
18-55	MAINTENANCE OF TRAFFIC
56-64	PLAN & PROFILES
65	SUPERELEVATION DIAGRAM
66-87	CONSTRUCTION DETAILS
88-118	EROSION CONTROL
119-126	PAVEMENT MARKINGS AND SIGNAGE
127-128	MISCELLANOUS TABLES
129-130	EROSION CONTROL TABLE
131-132	APPROACH TABLE
133	STRUCTURE DATA TABLE
134-229	CROSS SECTIONS

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

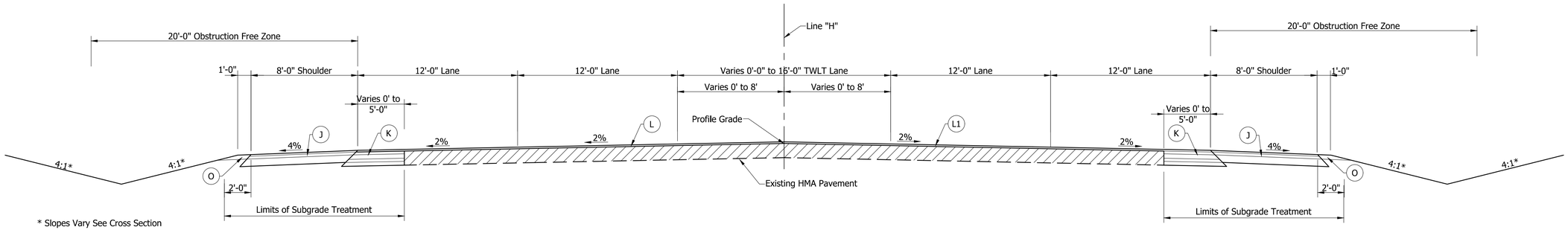
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VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET 02 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

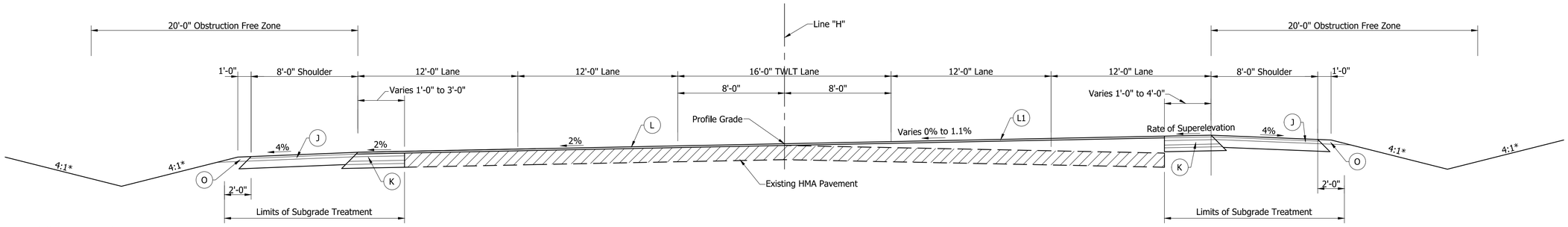


* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 107+65.19 "H" to Sta. 110+95.19 "H"

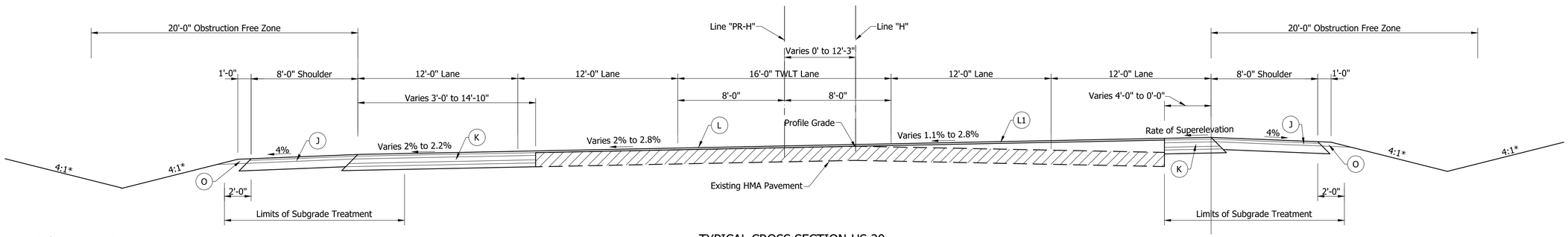


* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 110+95.19 "H" to Sta. 112+63.10 "H"
Sta. 194+22.99 "H" to Sta. 223+09.84 "H"



* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 112+63.10 "H" to Sta. 128+00.00 "H"

LEGEND

- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

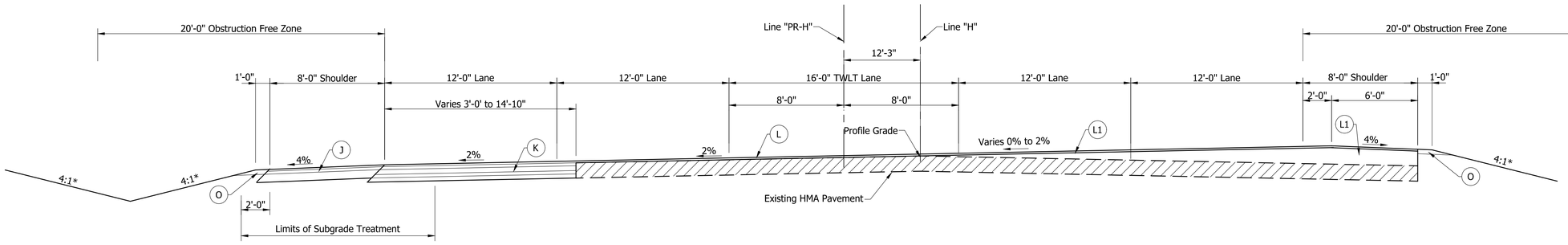
TYPICAL CROSS SECTIONS

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1/4"=1'-0"	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	03 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

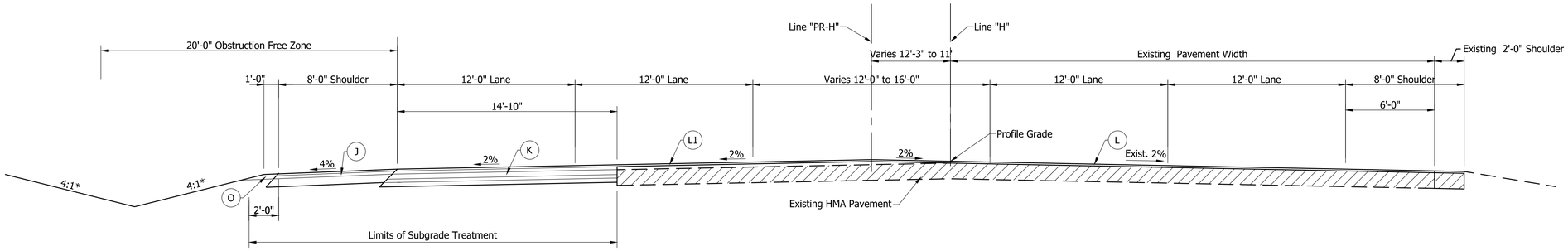


* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 128+00.00 "H" to Sta. 131+14.96 "H"



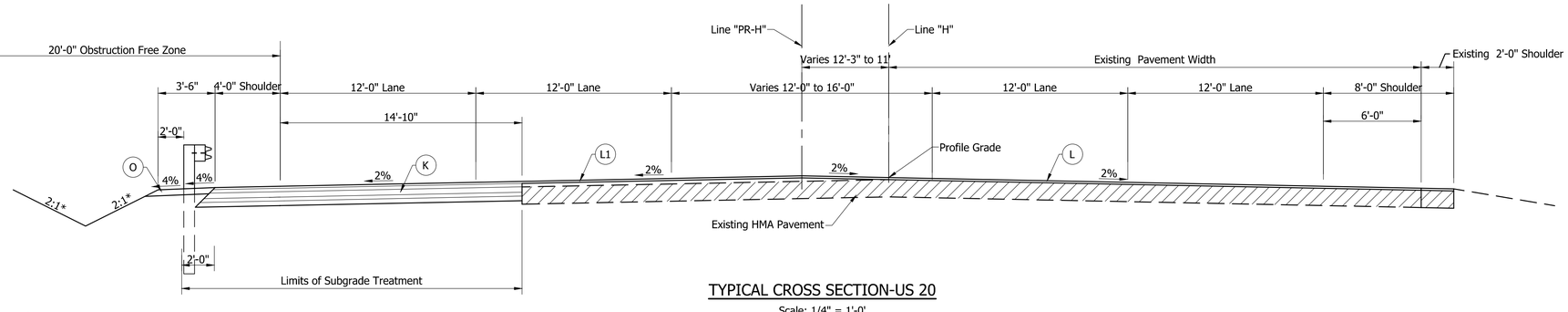
* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 131+14.96 "H" to Sta. 140+63.30 "H"

Sta. 148+22.37 "H" to Sta. 153+80.00 "H"



* Slopes 2:1 Max See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 140+63.30 "H" to Sta. 148+22.37 "H"

LEGEND

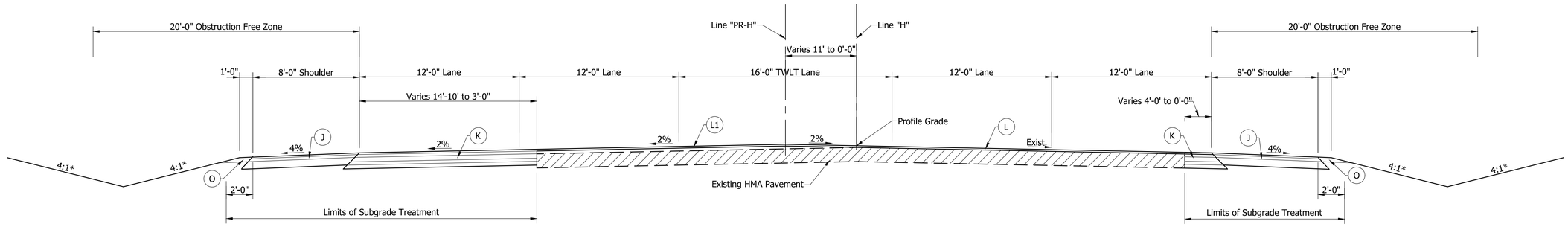
- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1/4"=1'-0" / BRIDGE FILE:
	DESIGNED: JCS DRAWN: BKM	TYPICAL CROSS SECTIONS	VERTICAL SCALE: N/A / DESIGNATION: 1702992
	CHECKED: JWG CHECKED: JCS		SURVEY BOOK: / SHEET: 04 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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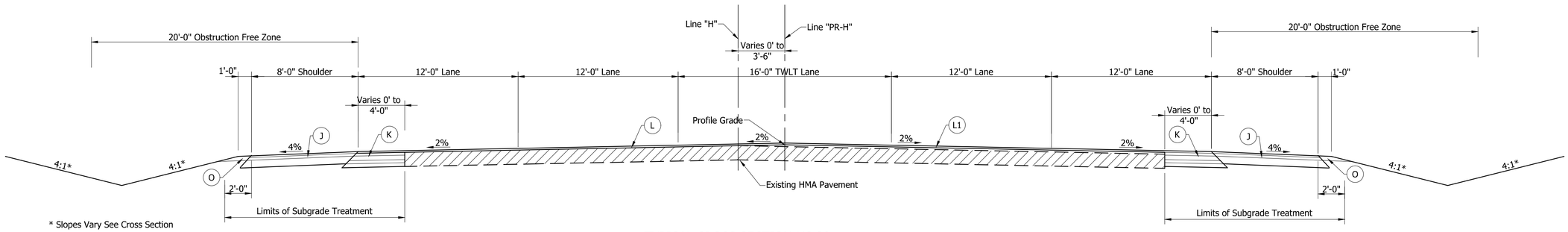


* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 153+80.00 "H" to Sta. 164+46.15 "H"

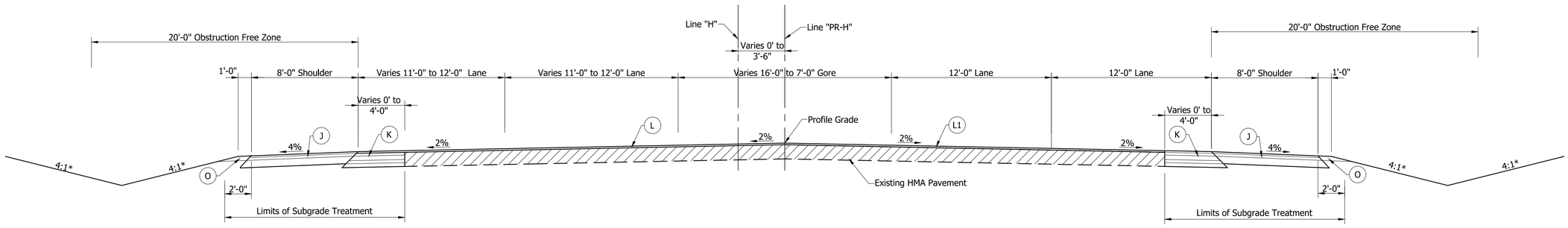


* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 164+46.15 "H" to Sta. 169+51.50 "H"



* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 169+52.00 "H" to Sta. 170+97.00 "H"

LEGEND

- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

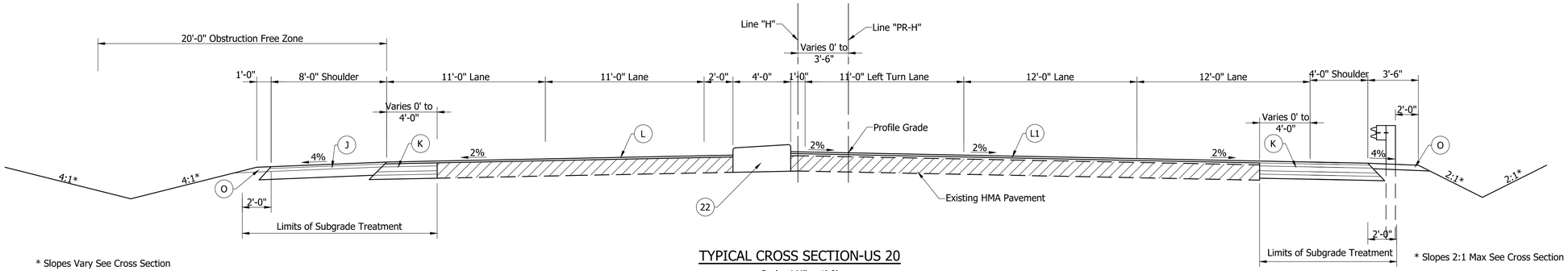
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HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	05 OF 229
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R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



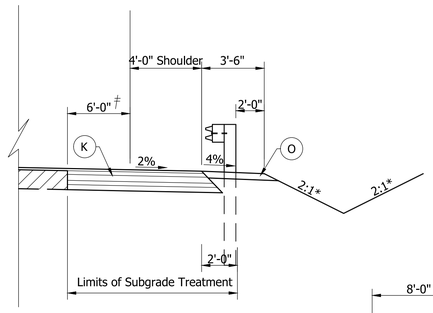
* Slopes Vary See Cross Section

* Slopes 2:1 Max See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

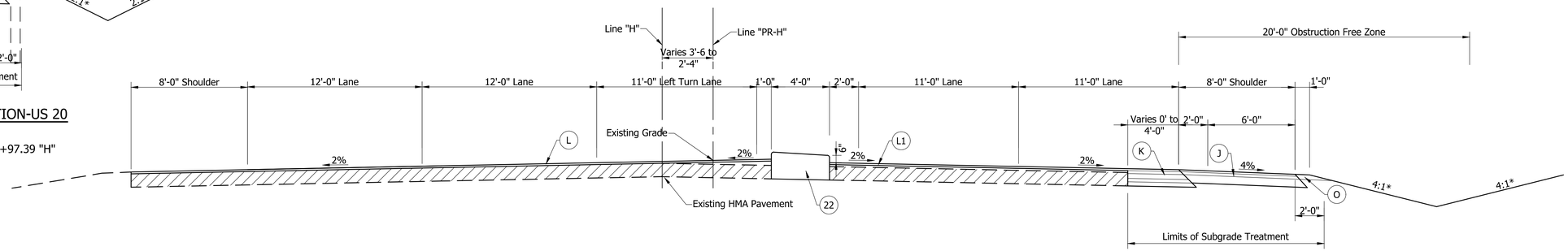
Sta. 170+97.00 "H" to Sta. 174+47.00 "H"



TYPICAL GUARDRAIL SECTION-US 20

Scale: 1/4" = 1'-0'

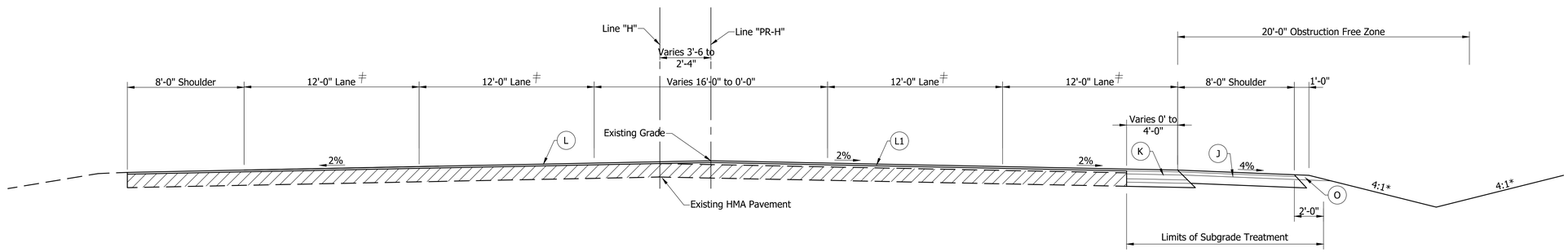
Sta. 171+21.70 "H" to Sta. 174+97.39 "H"



TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 175+58.00 "H" to Sta. 179+53.00 "H"



TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 174+47.00 "H" to Sta. 175+58.00 "H"

Sta. 179+53.00 "H" to Sta. 184+00.00 "H"

* Slopes Vary See Cross Section

‡ Lane Varies 11'-0" to 12'-0" From Sta. 174+47.00 "H" to Sta. 175+58.00 "H"

Lane Varies 11'-0" to 12'-0" From Sta. 179+53.00 "H" to Sta. 180+53.00 "H"

LEGEND

- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

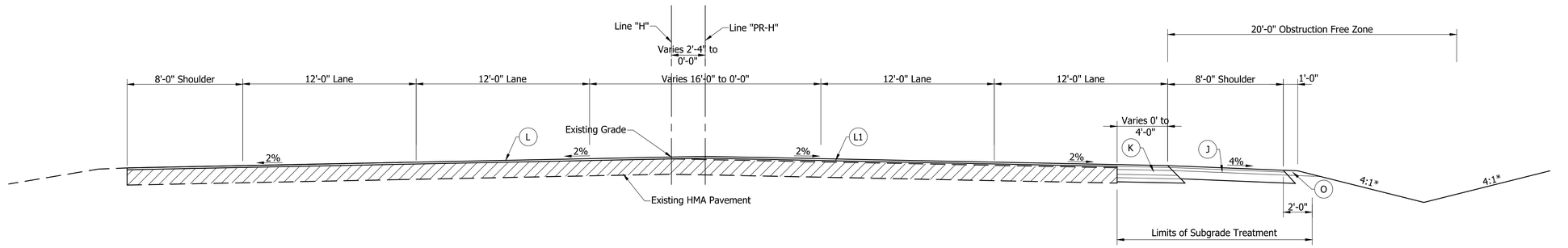
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N/A	1702992
SURVEY BOOK	SHEET
	06 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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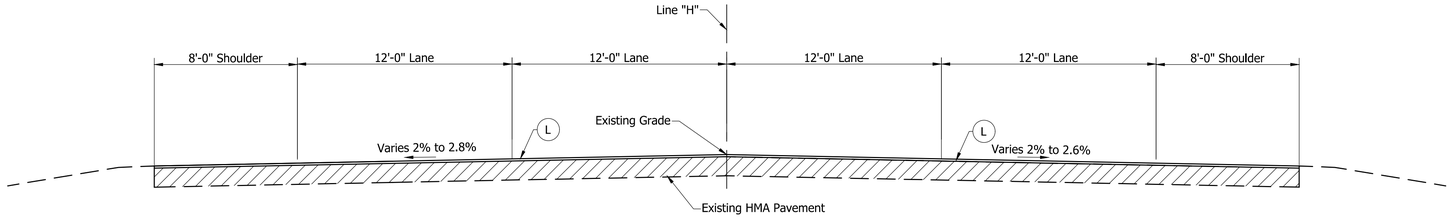


TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 184+00.00 "H" to Sta. 188+20.00 "H"

* Slopes Vary See Cross Section

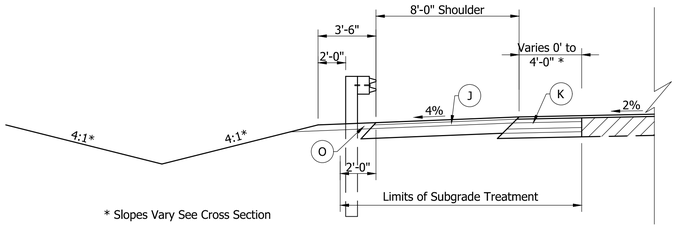


TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 188+20.00 "H" to Sta. 190+18.37 "H"

Paving Exception Sta. 190+18.37 "H" to Sta. 192+22.99 "H"

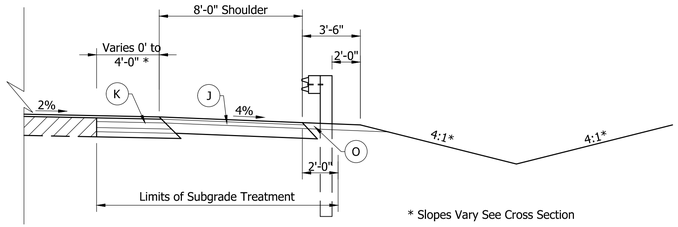


* Slopes Vary See Cross Section

TYPICAL GUARDRAIL SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 192+10.59 "H" to Sta. 199+86.78 "H"
Sta. 194+21.68 "H" to Sta. 200+58.69 "H"

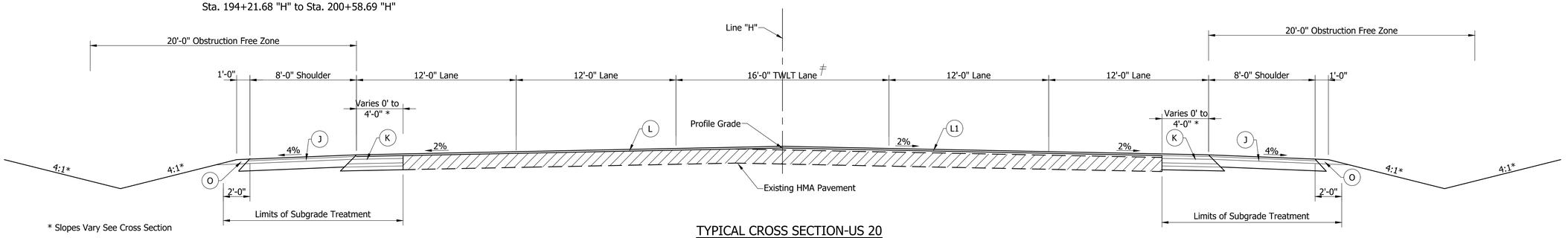


* Slopes Vary See Cross Section

TYPICAL GUARDRAIL SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 183+72.10 "H" to Sta. 185+10.06 "H"



* Slopes Vary See Cross Section

TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 192+22.99 "H" to Sta. 195+09.75 "H"
Sta. 223+09.84 "H" to Sta. 230+00.00 "H"

16' Left Turn Lane From Sta. 226+47 "H" to Sta. 229+40 "H"

* 5' Widening Left and 6' Widening Right From Sta. 223+09.84 "H" to Sta. 230+00.00 "H"

LEGEND

- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

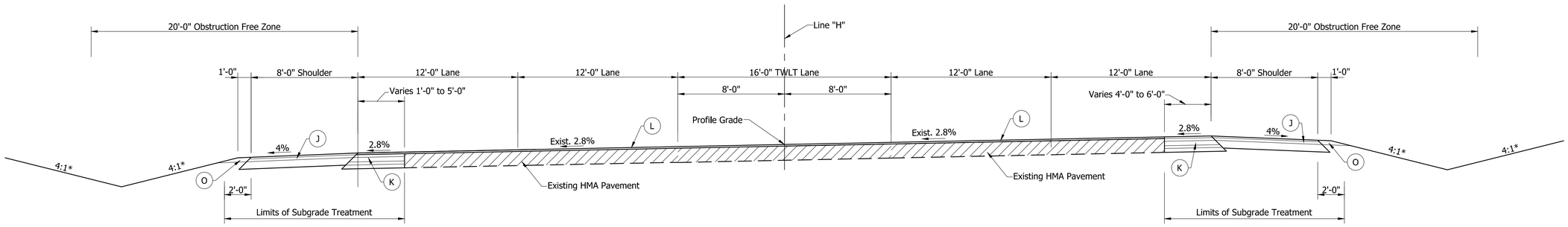
TYPICAL CROSS SECTIONS

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1/4"=1'-0"	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	07 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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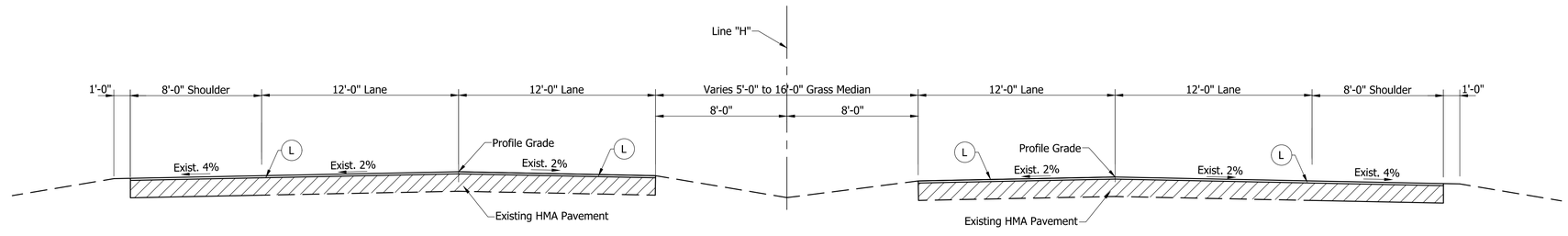
PRELIMINARY PLANS



TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

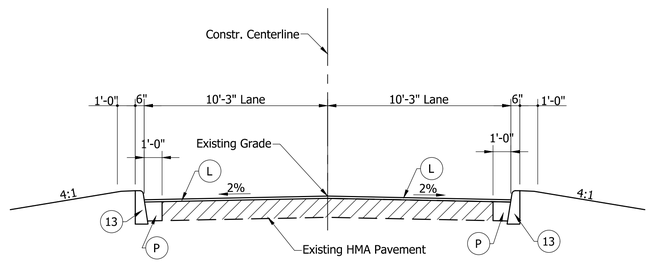
Sta. 195+09.75 "H" to Sta. 223+09.84 "H"



TYPICAL CROSS SECTION-US 20

Scale: 1/4" = 1'-0'

Sta. 230+00.00 "H" to Sta. 236+22.00 "H"



TYPICAL CROSS SECTION-LYNN ST.

Scale: 1/4" = 1'-0'

LEGEND

- (J) HMA SHOULDER (TBD)
- (K) FULL DEPTH HMA PAVEMENT (TBD)
- (K1) FULL DEPTH HMA PAVEMENT (TBD)
- (L) MILL & OVERLAY EXISTING PAVEMENT (TBD)
- (O) COMPACTED AGGREGATE, NO. 53

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	08 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

105+00

110+00

115+00

120+00

App. Sec. Line

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

SEC. 9, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

LIVINGHOUSE FARMS, INC.

LIVINGHOUSE FARMS, INC.

CHRISTOPHER L.
& LANA K. FINE

Temp. R/W
R/W
Temp. R/W
Res. "B"
R/W
Temp. R/W
Temp. R/W
Temp. R/W
R/W

Line "H"

BEGIN PROJECT
P.O.T. Sta. 110+95.19 "H"

P.C. Sta. 113+11.00 "H"

R/W
R/W
Temp. R/W
Temp. R/W
Temp. R/W
Temp. R/W
Temp. R/W
Temp. R/W
R/W

CURVE DATA
P.I Sta. 121+64.20 "H"
Δ = 15°16'00" Rt.
R = 6366.18'
T = 853.20'
L = 1696.29'
E = 56.92'

LIVINGHOUSE FARMS, INC.

LIVINGHOUSE FARMS, INC.

Res. "A"

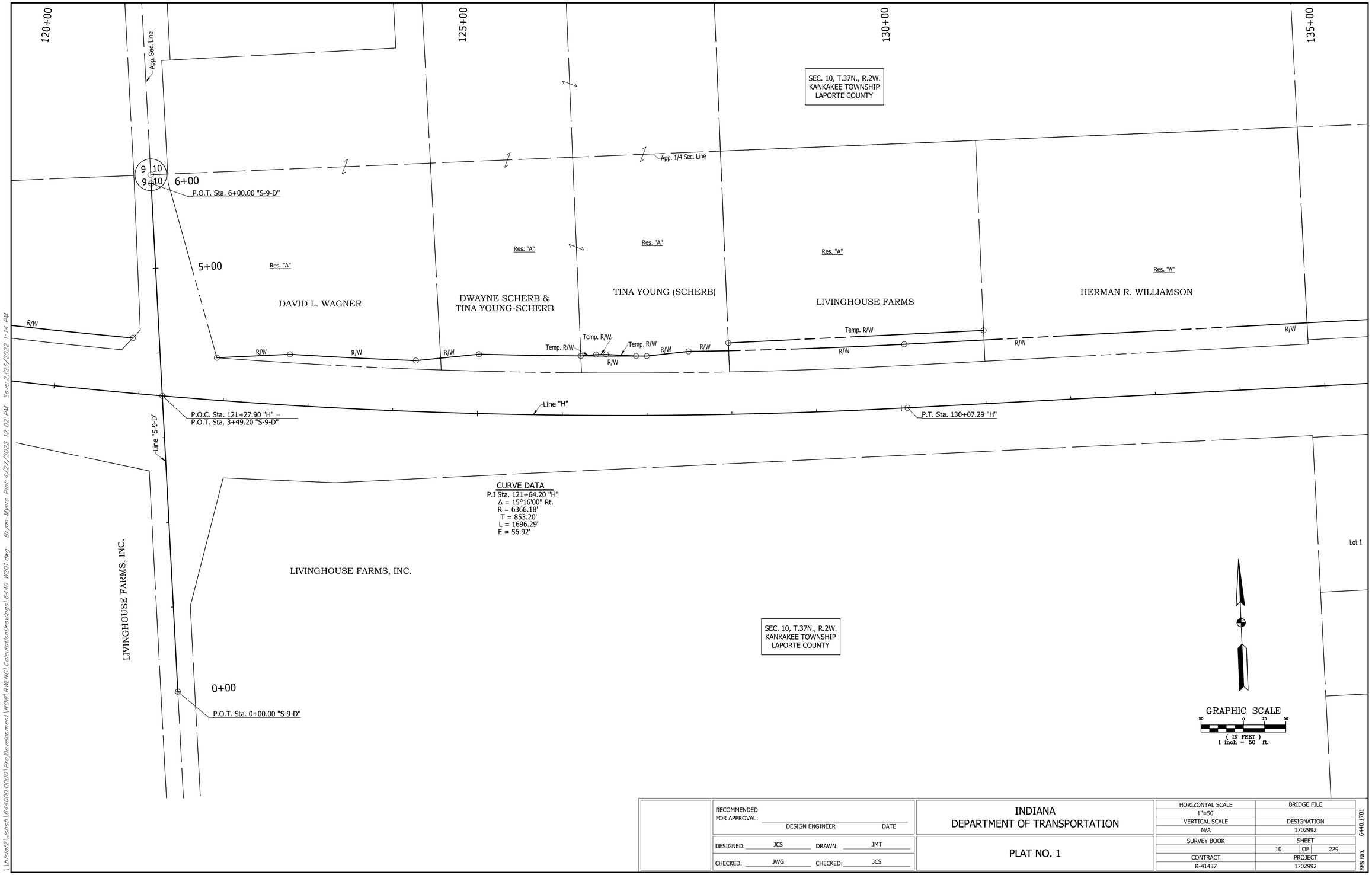
Res. "A"

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50'	BRIDGE FILE
			VERTICAL SCALE N/A	DESIGNATION 1702992
	DESIGNED: JCS DRAWN: JMT	PLAT NO. 1	SURVEY BOOK	SHEET 09 OF 229
	CHECKED: JWG CHECKED: JCS		CONTRACT R-41437	PROJECT 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

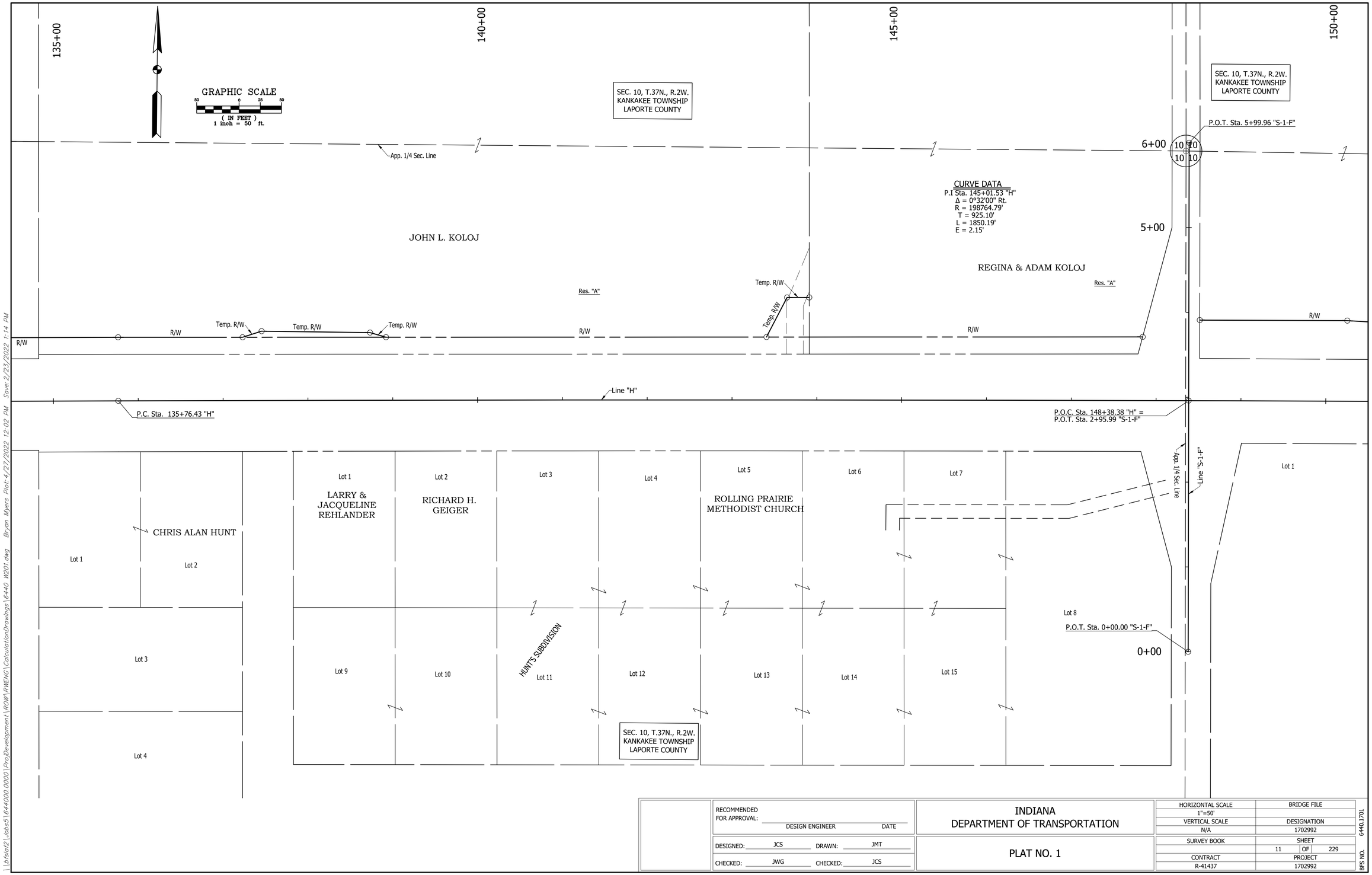


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	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50'	BRIDGE FILE
			VERTICAL SCALE N/A	DESIGNATION 1702992
	DESIGNED: JCS DRAWN: JMT	PLAT NO. 1	SURVEY BOOK	SHEET 10 OF 229
	CHECKED: JWG CHECKED: JCS		CONTRACT R-41437	PROJECT 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	11 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

150+00

155+00

160+00

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

App. 1/4 Sec. Line

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

DUANE & ALICIA CLARICH

Res. "A"

JOSEPH L. HILL TRUST

R/W R/W R/W

Temp. R/W Temp. R/W Temp. R/W Temp. R/W

R/W R/W

Res. "A"

CURVE DATA
P.I Sta. 171+00.43 "H"
Δ = 18°31'00" Rt.
R = 10268.15'
T = 1673.81'
L = 3318.42'
E = 135.53'

Line "H"

P.C.C. Sta. 154+26.62 "H"

R/W R/W

Lot 1 Lot 2 Lot 3 Lot 4 Lot 5 Lot 6

CURVE DATA
P.I Sta. 145+01.53 "H"
Δ = 0°32'00" Rt.
R = 198764.79'
T = 925.10'
L = 1850.19'
E = 2.15'

JASON A. RUNION

CYRIL OAKE

WILLIAM & DEBORA YERGLER

RONALD & HORMA ROSENTRETER

Lot 7

SCOTT F. ERNEY

PLAT OF PRAIRIE ACRES

Lot 8

ASHLEY NEGRETE

Lot 9 Lot 10 Lot 11 Lot 12 Lot 13

R/W R/W

Res. "A"

ROBERT & JANET SCHULTZ

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

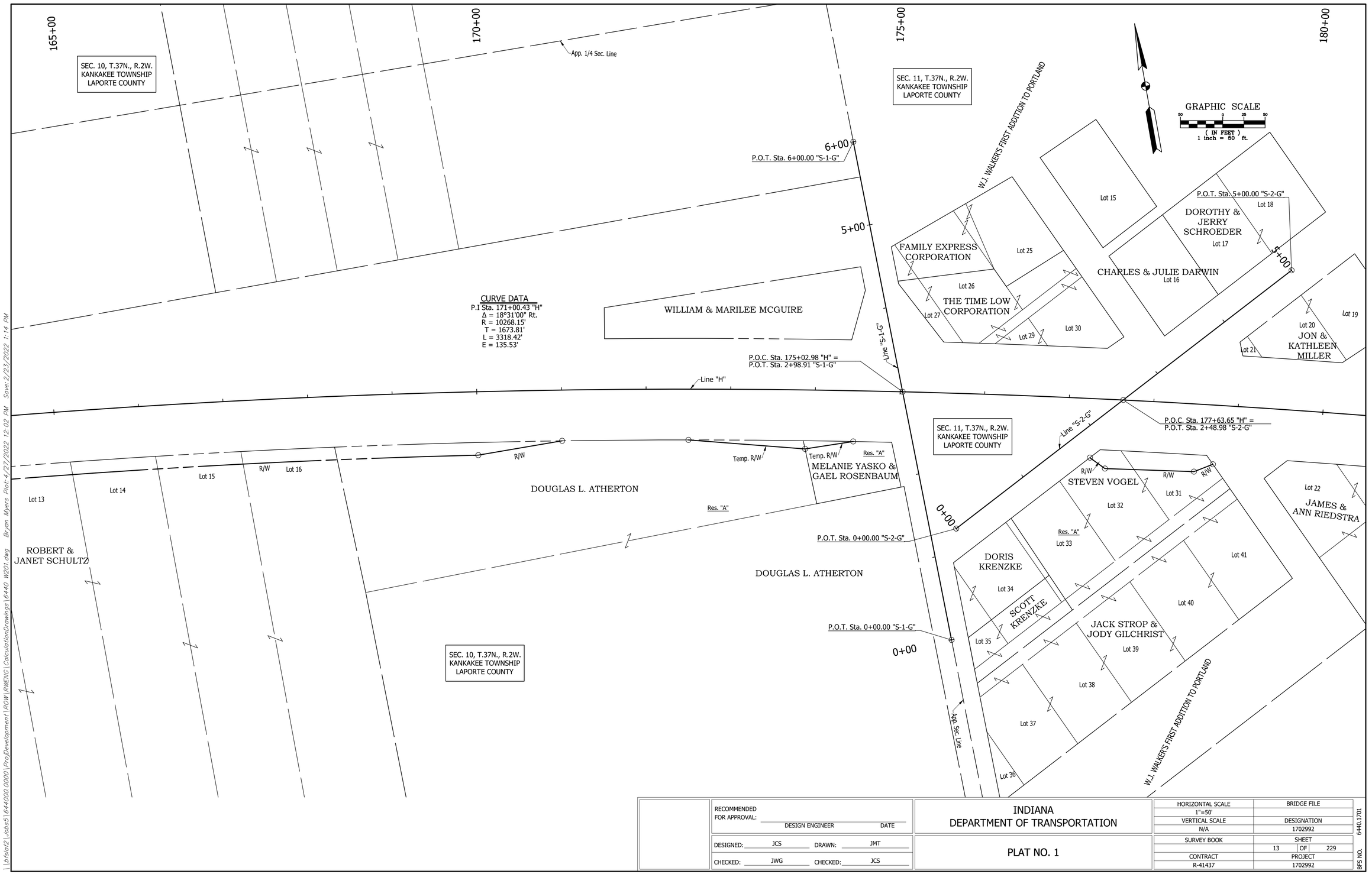
PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	12 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



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	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
	DESIGNED: JCS DRAWN: JMT	PLAT NO. 1	VERTICAL SCALE: N/A / DESIGNATION: 1702992
	CHECKED: JWG CHECKED: JCS		SURVEY BOOK: / SHEET: 13 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

185+00

190+00

195+00

W.J. WALKER'S FIRST ADDITION TO PORTLAND

Lot 8

Lot 9

Lot 12

DONALD & JACQUELINE PROSSER

Lot 11

Lot 10

NICKLAS & CHRISTINA SODER

Lot 19

Lot 20

JON & KATHLEEN MILLER

STATE OF INDIANA

HUNTER PARMLEY

REDTAIL, LLC

REDTAIL, LLC

STATE OF INDIANA

STATE OF INDIANA

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

Line "H"

P.T. Sta. 187+45.05 "H"

P.C. Sta. 195+09.75 "H"

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

Lot 22

Lot 23

JAMES & ANN RIEDSTRA

STATE OF INDIANA

STATE OF INDIANA

SCOTT VANWANZEELE

JOHNATHON KUESPERT

STATE OF INDIANA

Utility Esmt.

RECOMMENDED FOR APPROVAL:

DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

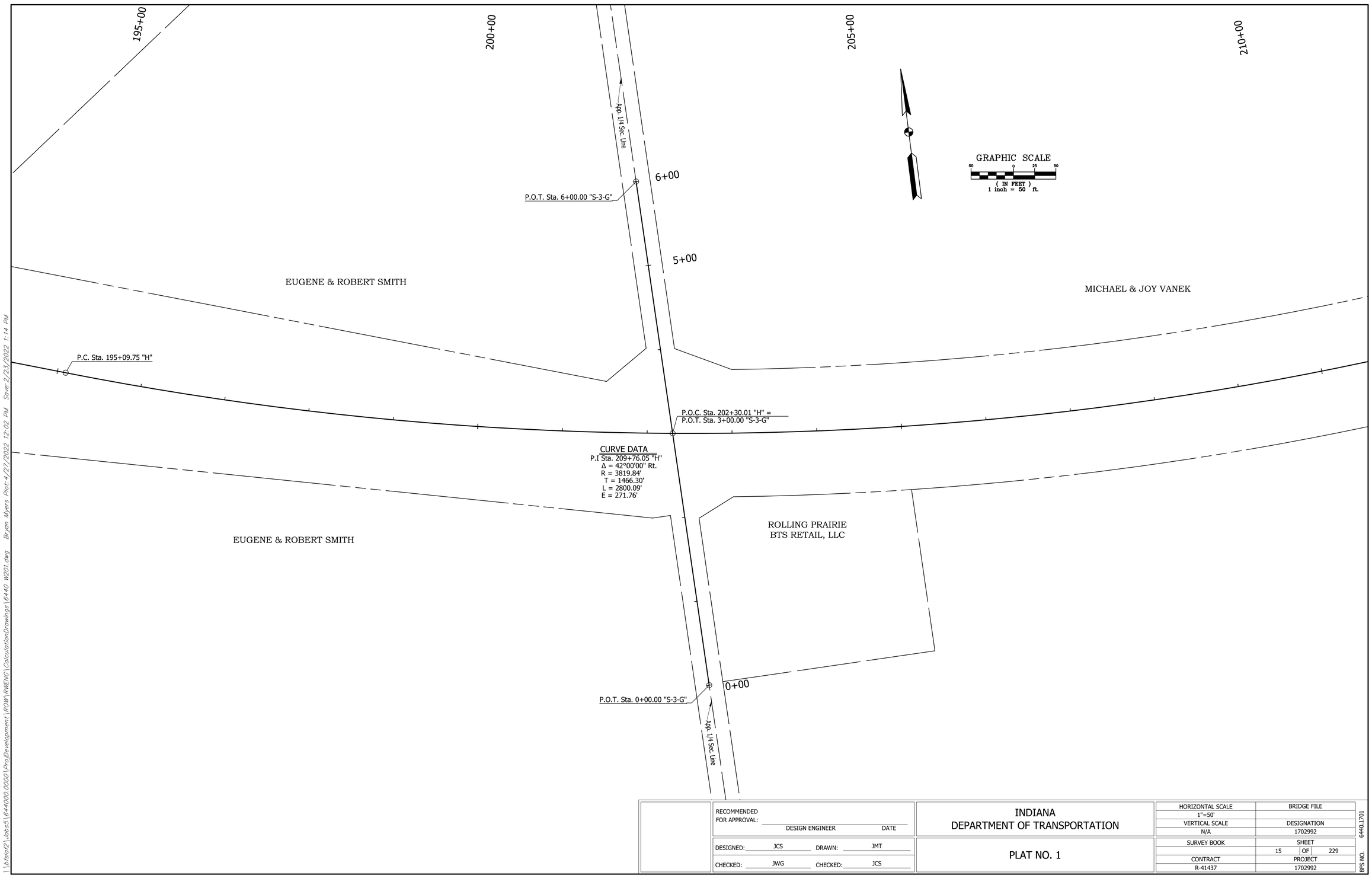
PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	14 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



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	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:	6440.1701
	DESIGNED: JCS DRAWN: JMT		VERTICAL SCALE: N/A / DESIGNATION: 1702992	
	CHECKED: JWG CHECKED: JCS	PLAT NO. 1	SURVEY BOOK: / SHEET: 15 OF 229	BFS NO.
			CONTRACT: R-41437 / PROJECT: 1702992	

PRELIMINARY PLANS

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210+00

215+00

220+00

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

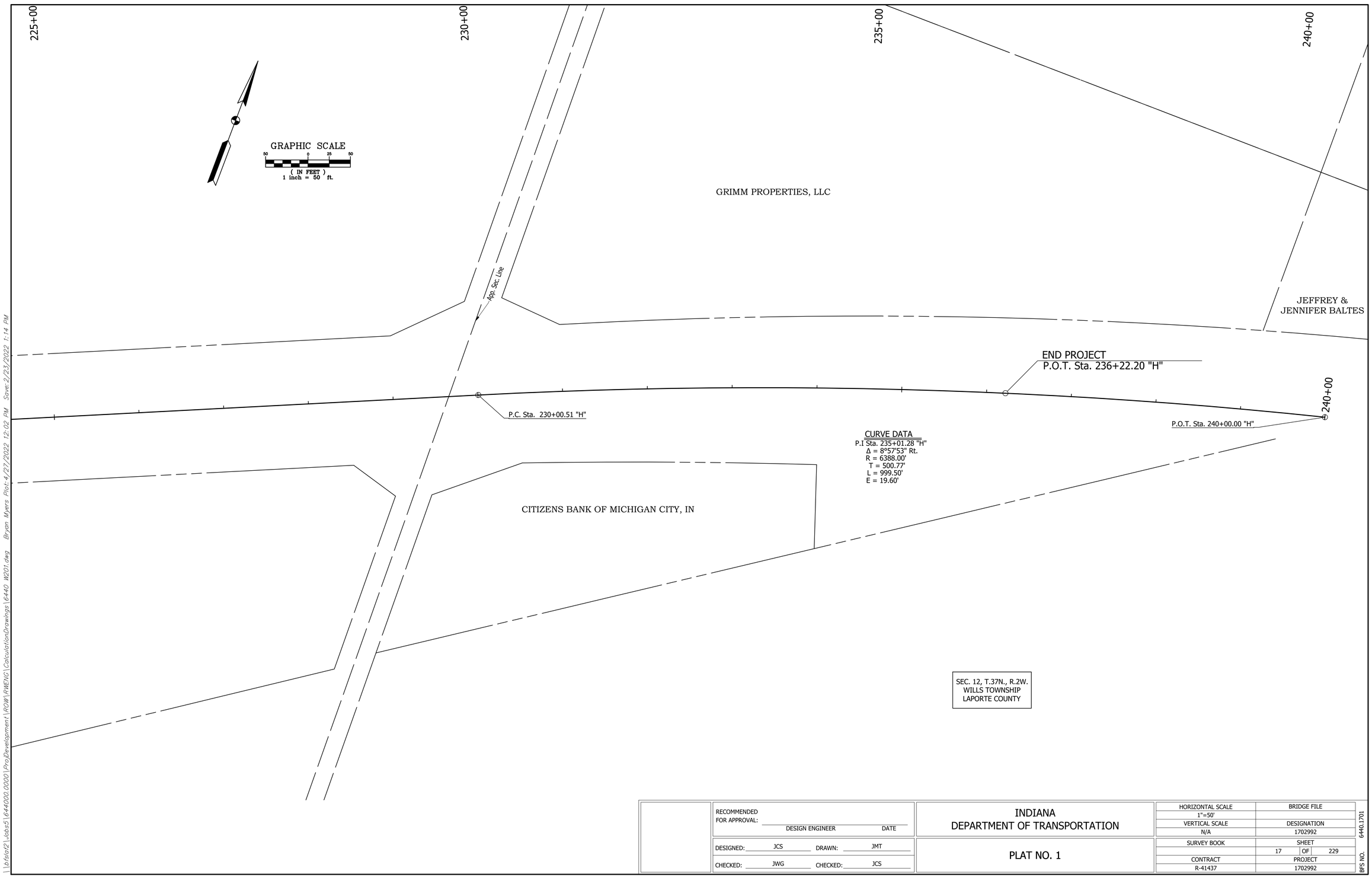
CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Rt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

P.T. Sta. 223+09.84 "H"

GEORGE & KATHRYN GURROLA

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50' / BRIDGE FILE	6440.1701 BFS NO.
	DESIGNED: JCS DRAWN: JMT	PLAT NO. 1	VERTICAL SCALE N/A / DESIGNATION 1702992	
	CHECKED: JWG CHECKED: JCS		SURVEY BOOK / SHEET 16 OF 229	
			CONTRACT R-41437 / PROJECT 1702992	

PRELIMINARY PLANS

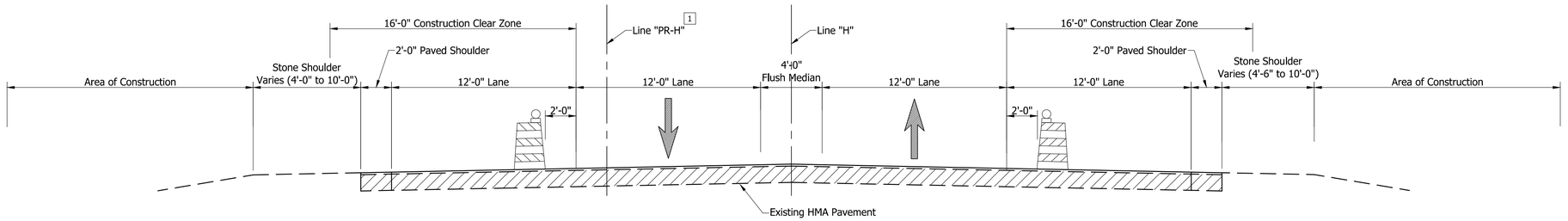


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	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50'	BRIDGE FILE:
			VERTICAL SCALE: N/A	DESIGNATION: 1702992
	DESIGNED: JCS DRAWN: JMT	PLAT NO. 1	SURVEY BOOK:	SHEET: 17 OF 229
	CHECKED: JWG CHECKED: JCS		CONTRACT: R-41437	PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

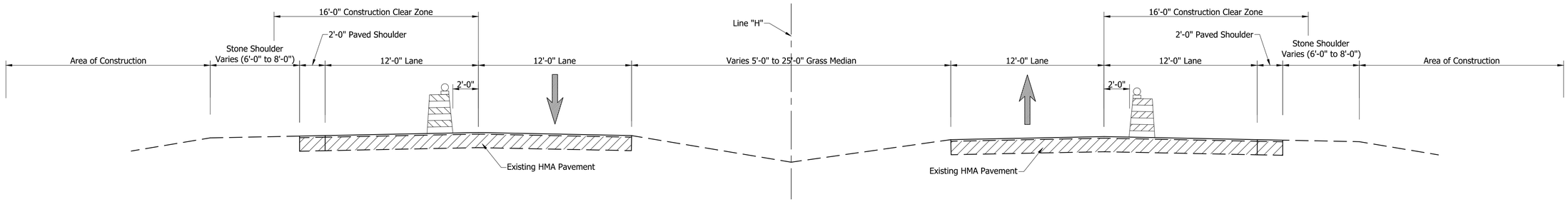


1 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

TYPICAL CROSS SECTION M.O.T. PHASE 1

Scale: 1/4" = 1'-0'

Sta. 110+95.19 "H" to Sta. 230+25.03 "H"



TYPICAL CROSS SECTION M.O.T. PHASE 1

Scale: 1/4" = 1'-0'

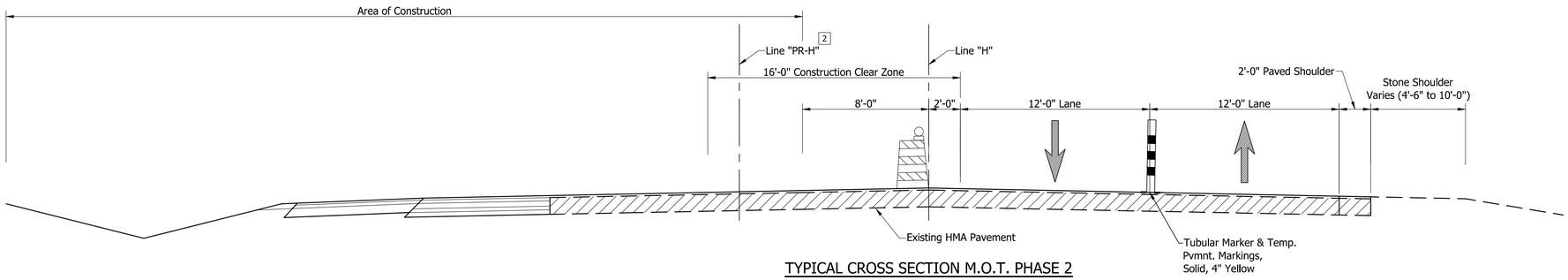
Sta. 230+25.03 "H" to Sta. 236+22+20 "H"

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: As Shown; BRIDGE FILE:
	DESIGNED: CWW; DRAWN: DRM; CHECKED: JWG; CHECKED: CWW	MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS	VERTICAL SCALE: N/A; DESIGNATION: 1702992; SURVEY BOOK: ; SHEET: 18 OF 229; CONTRACT: R-41437; PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

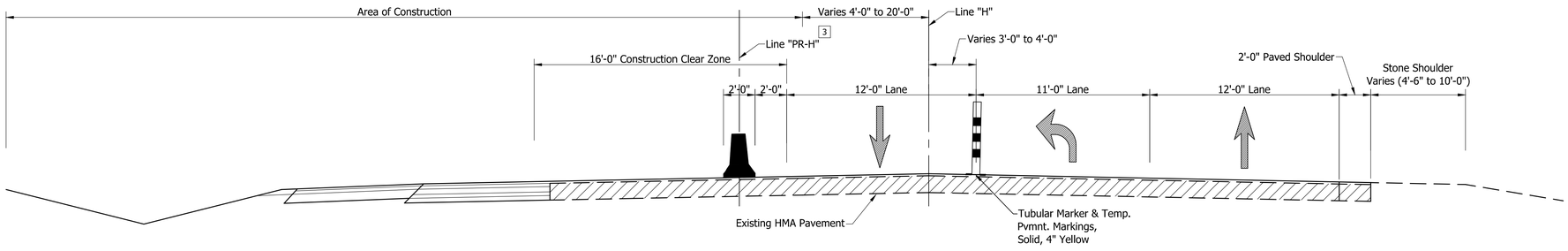


TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

2 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

Sta. 110+95.19 "H" to Sta. 115+98.38 "H"
Sta. 126+58.27 "H" to Sta. 143+08.38 "H"
Sta. 153+68.00 "H" to Sta. 169+72.94 "H"
Sta. 180+33.11 "H" to Sta. 196+99.88 "H"
Sta. 207+60.13 "H" to Sta. 224+60.31 "H"



TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

3 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

Sta. 115+98.38 "H" to Sta. 121+27.29 "H"
Sta. 143+11.64 "H" to Sta. 148+38.38 "H"
Sta. 169+72.94 "H" to Sta. 175+02.98 "H"
Sta. 196+99.88 "H" to Sta. 202+30.01 "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

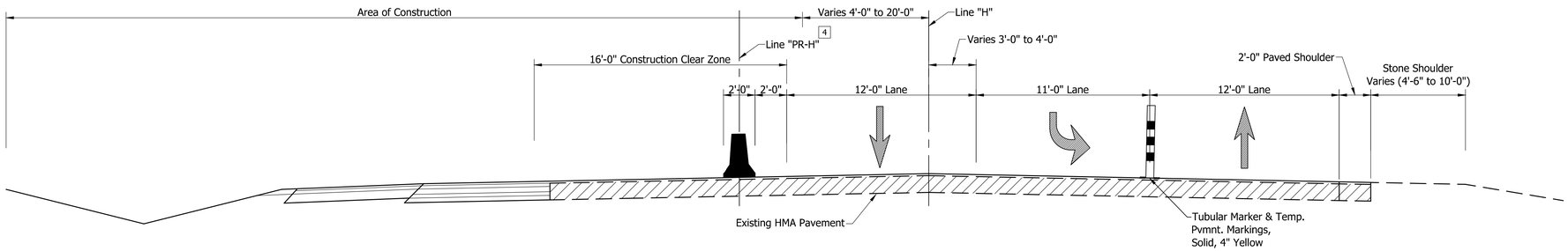
MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
As Shown	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	19 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

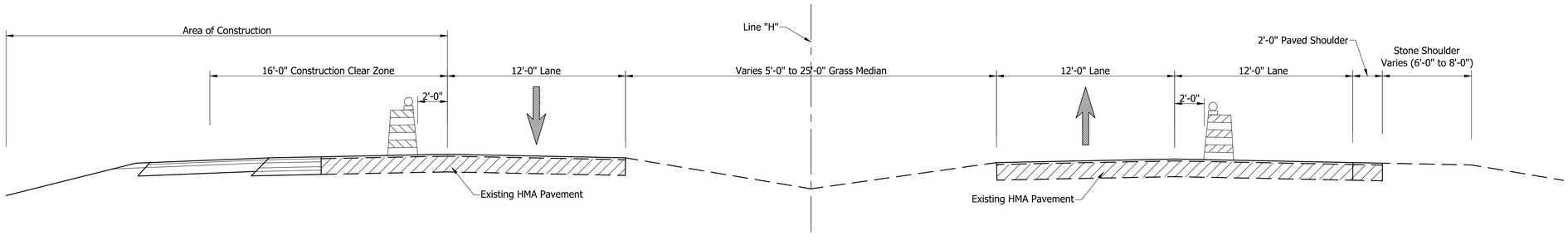


TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

4 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

Sta. 121+27.29 "H" to Sta. 126+58.27 "H"
Sta. 148+38.38 "H" to Sta. 153+68.41 "H"
Sta. 175+02.98 "H" to Sta. 180+33.11 "H"
Sta. 202+30.01 "H" to Sta. 207+60.13 "H"



TYPICAL CROSS SECTION M.O.T. PHASE 2

Scale: 1/4" = 1'-0'

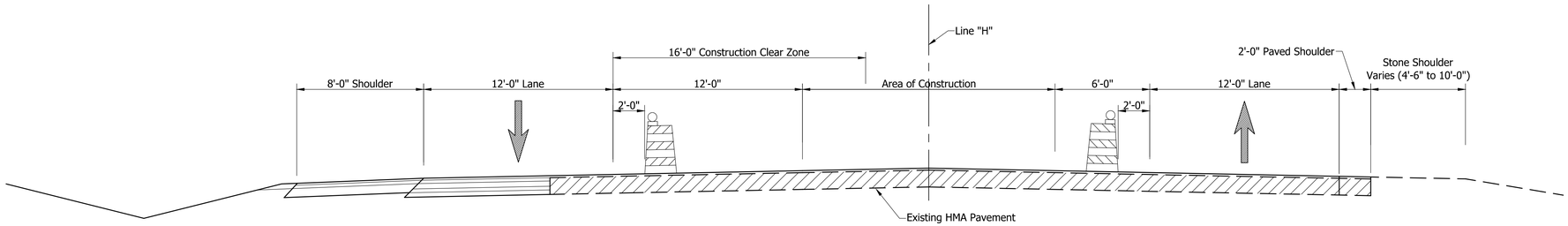
Sta. 230+25.03 "H" to Sta. 236+22+20 "H"

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: As Shown; BRIDGE FILE:
	DESIGNED: CWW; DRAWN: DRM; CHECKED: JWG; CHECKED: CWW	MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS	VERTICAL SCALE: N/A; DESIGNATION: 1702992; SURVEY BOOK: ; SHEET: 20 OF 229; CONTRACT: R-41437; PROJECT: 1702992

BFS NO. 6440.1701

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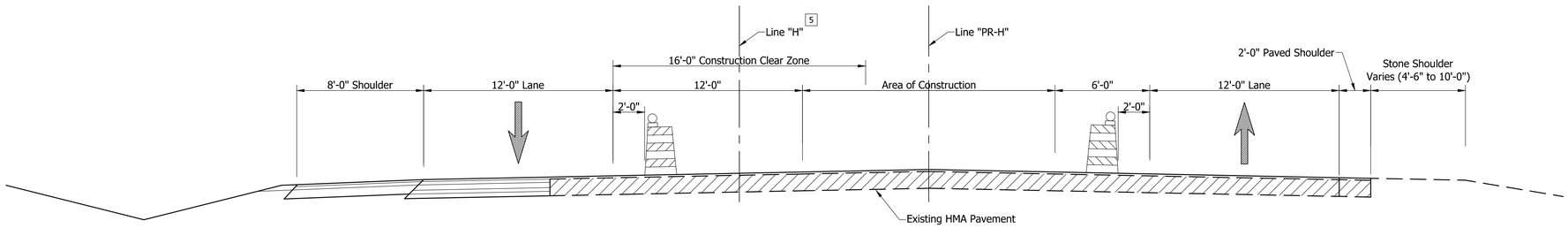
PRELIMINARY PLANS



TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 110+95.19 "H" to Sta. 113+00.00 "H"
Sta. 188+20.37 "H" to Sta. 230+25.03 "H"

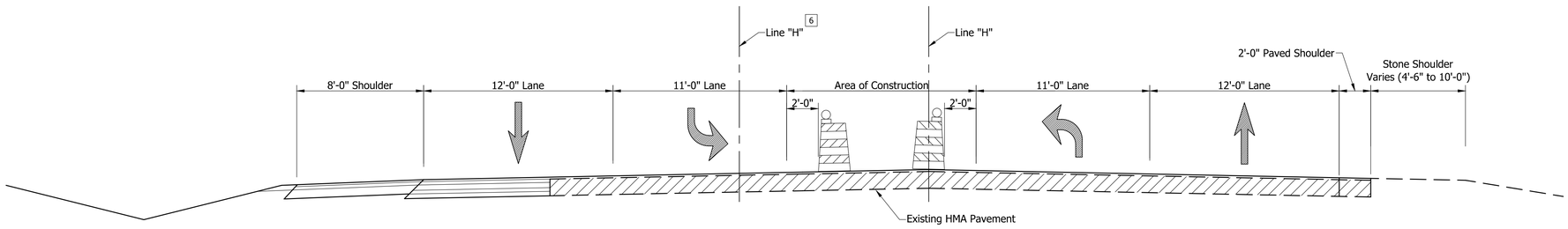


TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 113+00.00 "H" to Sta. 119+28.55 "H"
Sta. 123+35.54 "H" to Sta. 146+38.59 "H"
Sta. 150+39.19 "H" to Sta. 173+04.07 "H"
Sta. 177+03.18 "H" to Sta. 188+20.37 "H"

5 Varies 0' to 4'-6" Lt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Rt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Lt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"



TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 119+28.55 "H" to Sta. 123+35.54 "H"
Sta. 146+38.59 "H" to Sta. 150+39.19 "H"
Sta. 173+04.07 "H" to Sta. 177+03.18 "H"
Sta. 200+28.85 "H" to Sta. 202+30.01 "H"

6 Varies 0' to 4'-6" Lt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Rt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Lt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

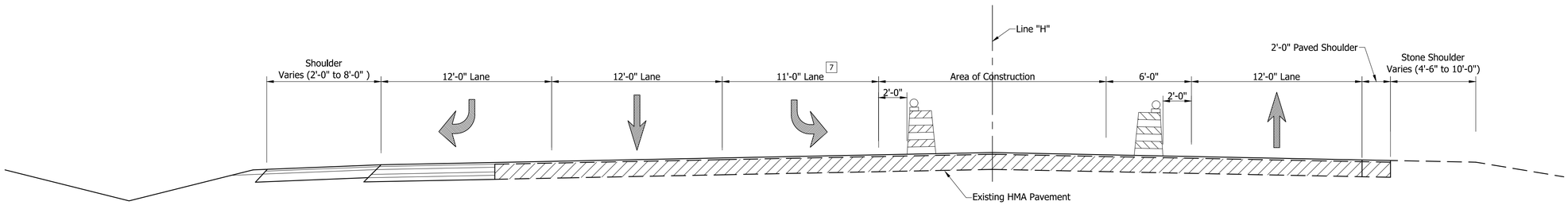
MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
As Shown	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	21 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

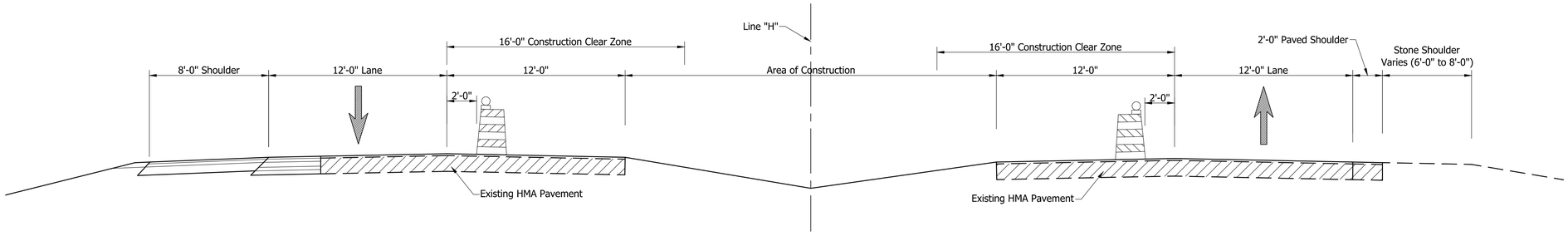


TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

Sta. 202+30.01 "H" to Sta. 210+53.23 "H"

7 From Sta. 202+30.01 "H" to Sta. 204+30.64 "H"



TYPICAL CROSS SECTION M.O.T. PHASE 3

Scale: 1/4" = 1'-0'

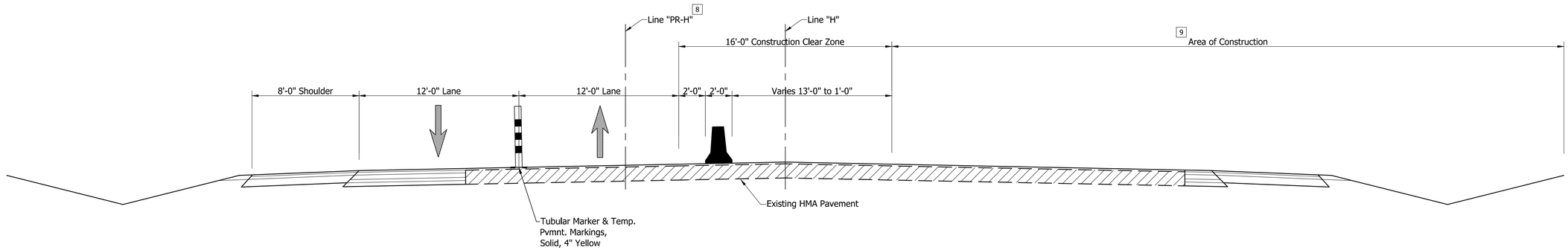
Sta. 230+25.03 "H" to Sta. 236+22+20 "H"

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: As Shown; BRIDGE FILE:
	DESIGNED: CWW; DRAWN: DRM; CHECKED: JWG; CHECKED: CWW	MAINTENANCE OF TRAFFIC TYPICAL CROSS SECTIONS	VERTICAL SCALE: N/A; DESIGNATION: 1702992; SURVEY BOOK: ; SHEET: 22 OF 229; CONTRACT: R-41437; PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



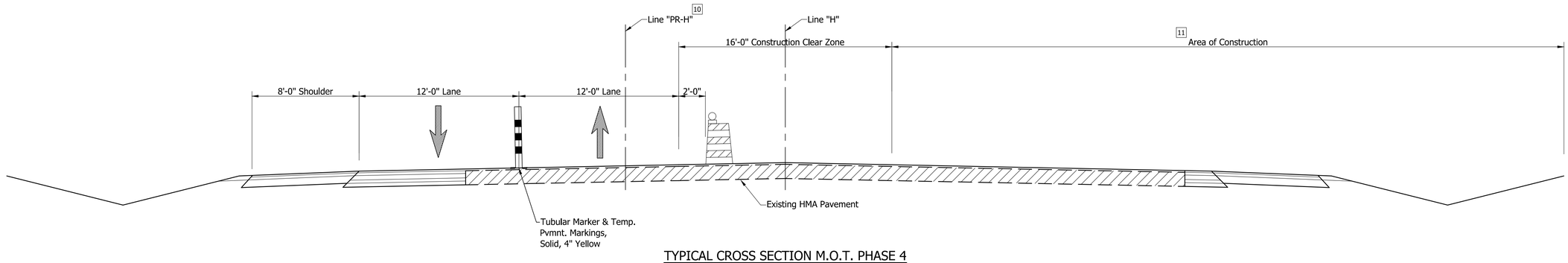
8 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 110+95.19 "H" to Sta. 115+98.02 "H"
Sta. 126+57.29 "H" to Sta. 133+50.02 "H"

9 See Superelevation Diagram:
From Sta. 110+95.19 "H" to Sta. 131+14.96 "H"



10 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 133+50.02 "H" to Sta. 143+08.40 "H"
Sta. 154+68.56 "H" to Sta. 169+73.03 "H"
Sta. 181+50.00 "H" to Sta. 196+99.66 "H"
Sta. 208+60.27 "H" to Sta. 224+60.88 "H"

11 See Superelevation Diagram:
From Sta. 194+22.99 "H" to Sta. 223+09.84 "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

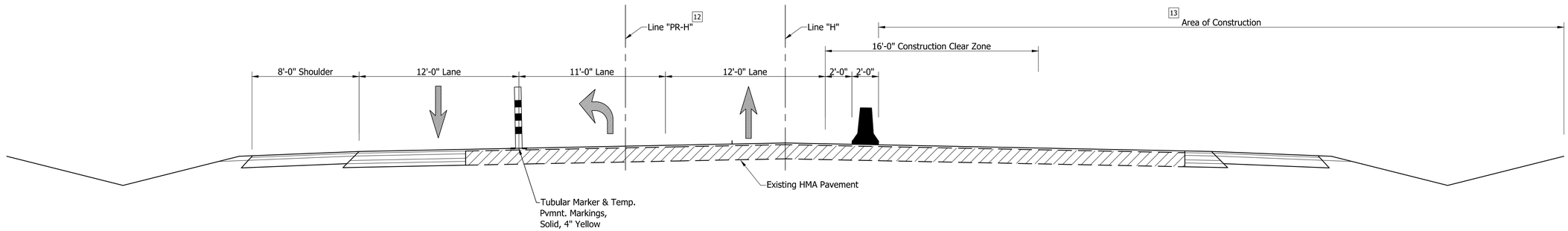
MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
As Shown	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	23 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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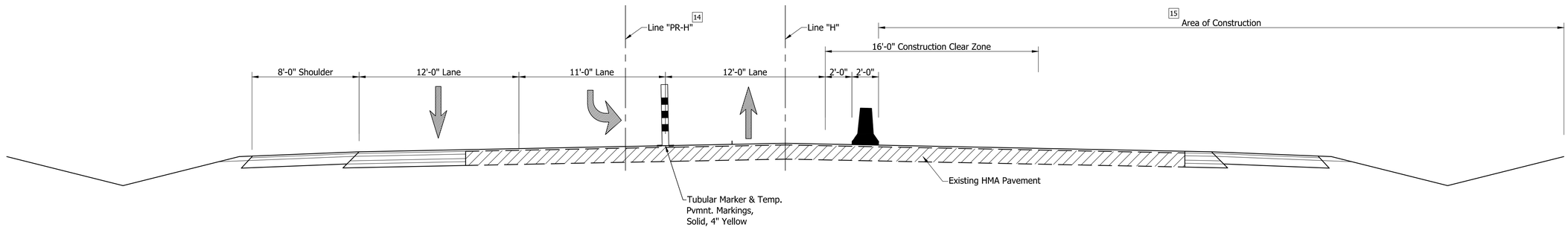
12 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 115+98.02 "H" to Sta. 121+27.90 "H"
Sta. 143+08.40 "H" to Sta. 148+38.38 "H"
Sta. 169+73.03 "H" to Sta. 175+02.98 "H"
Sta. 196+99.66 "H" to Sta. 202+30.01 "H"

13 See Superelevation Diagram:
From Sta. 110+95.19 "H" to Sta. 131+14.96 "H"



14 Varies 0' to 4'-6" Rt. From Sta. 113+00.00 "H" to Sta. 124+11.16 "H"
Varies 0' to 12'-0" Lt. From Sta. 124+11.16 "H" to Sta. 164+46.15 "H"
Varies 0' to 4'-0" Rt. From Sta. 164+46.15 "H" to Sta. 188+20.47 "H"

TYPICAL CROSS SECTION M.O.T. PHASE 4

Scale: 1/4" = 1'-0'

Sta. 121+27.90 "H" to Sta. 126+57.29 "H"
Sta. 148+38.38 "H" to Sta. 153+68.76 "H"
Sta. 175+02.98 "H" to Sta. 180+32.95 "H"

15 See Superelevation Diagram:
From Sta. 110+95.19 "H" to Sta. 131+14.96 "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
As Shown	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	24 OF 229
CONTRACT	PROJECT
R-41437	1702992

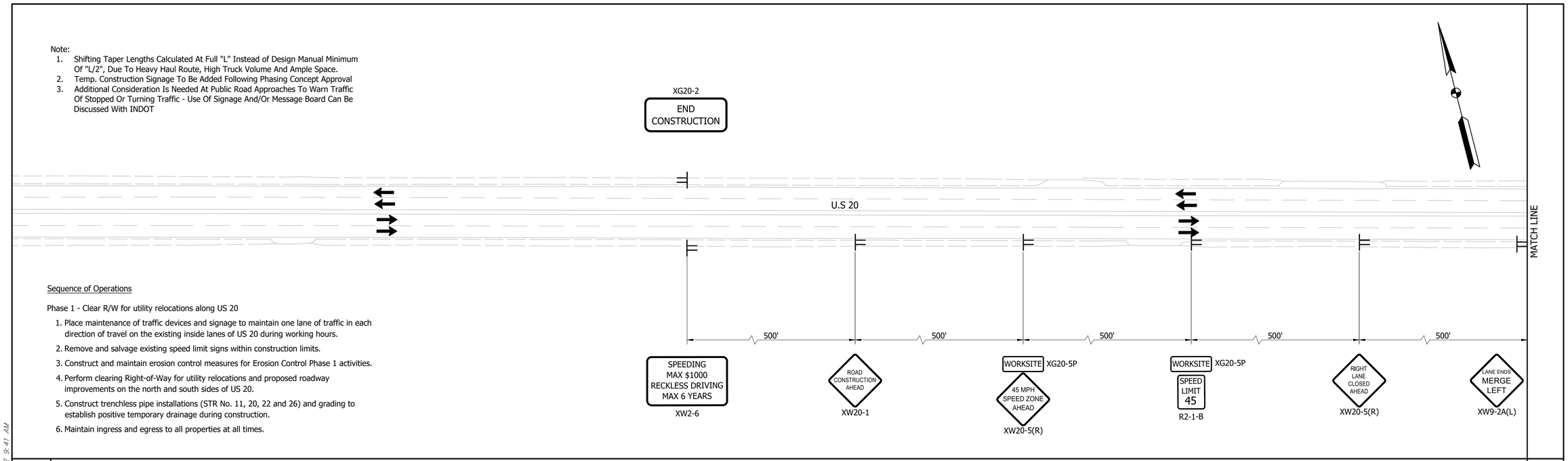
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PRELIMINARY PLANS

Note:

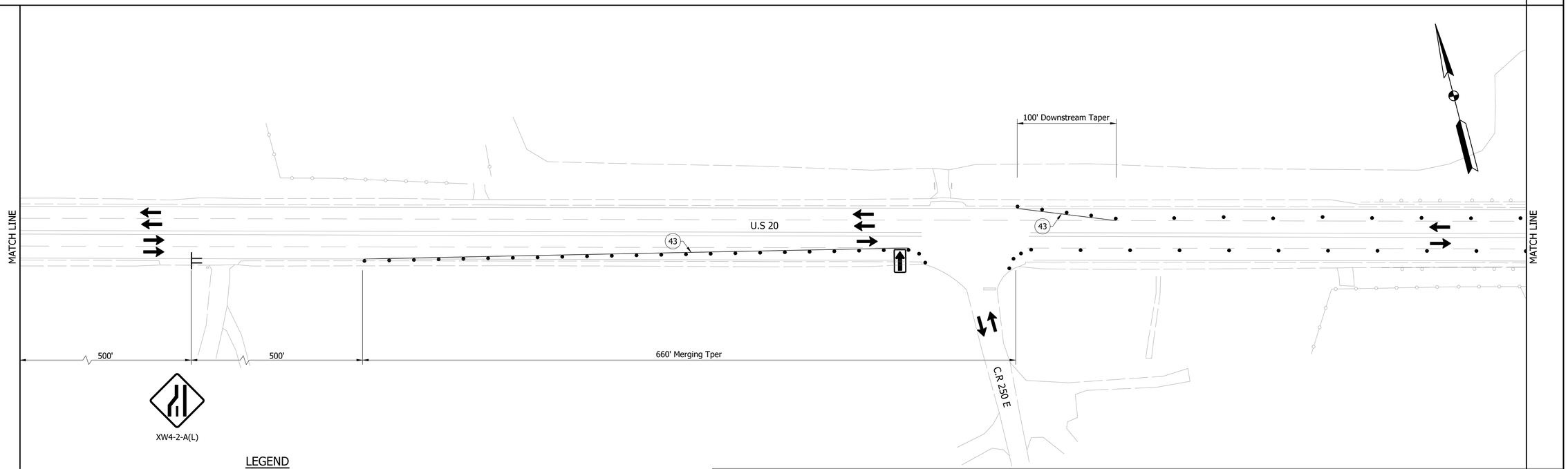
1. Shifting Taper Lengths Calculated At Full "L" Instead of Design Manual Minimum Of "L/2", Due To Heavy Haul Route, High Truck Volume And Ample Space.
2. Temp. Construction Signage To Be Added Following Phasing Concept Approval
3. Additional Consideration Is Needed At Public Road Approaches To Warn Traffic Of Stopped Or Turning Traffic - Use Of Signage And/Or Message Board Can Be Discussed With INDOT



Sequence of Operations

Phase 1 - Clear R/W for utility relocations along US 20

1. Place maintenance of traffic devices and signage to maintain one lane of traffic in each direction of travel on the existing inside lanes of US 20 during working hours.
2. Remove and salvage existing speed limit signs within construction limits.
3. Construct and maintain erosion control measures for Erosion Control Phase 1 activities.
4. Perform clearing Right-of-Way for utility relocations and proposed roadway improvements on the north and south sides of US 20.
5. Construct trenchless pipe installations (STR No. 11, 20, 22 and 26) and grading to establish positive temporary drainage during construction.
6. Maintain ingress and egress to all properties at all times.



LEGEND

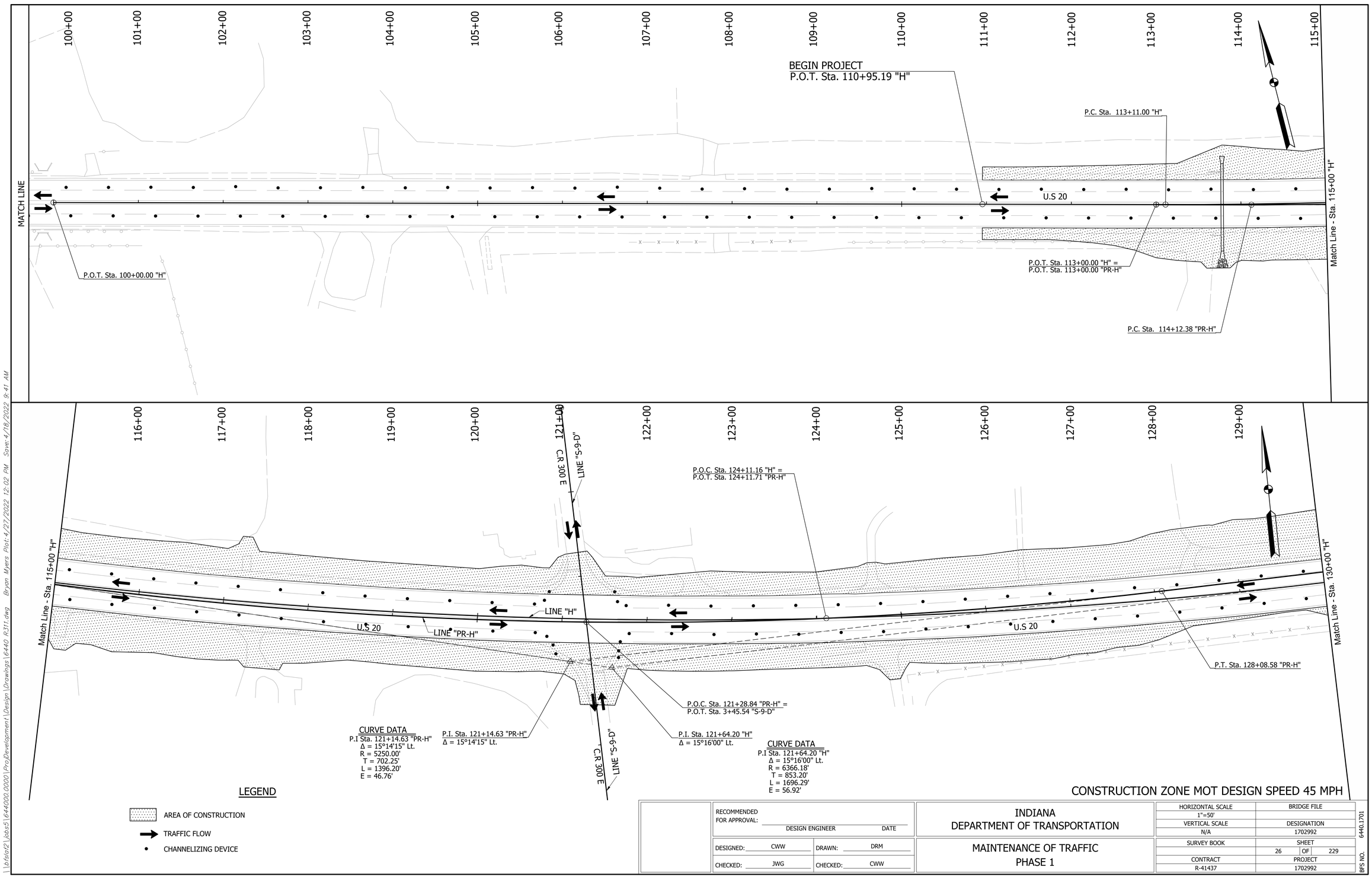
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 1	VERTICAL SCALE: N/A / DESIGNATION: 1702992
CHECKED: JWG	CHECKED: CWW		SURVEY BOOK: / SHEET: 25 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

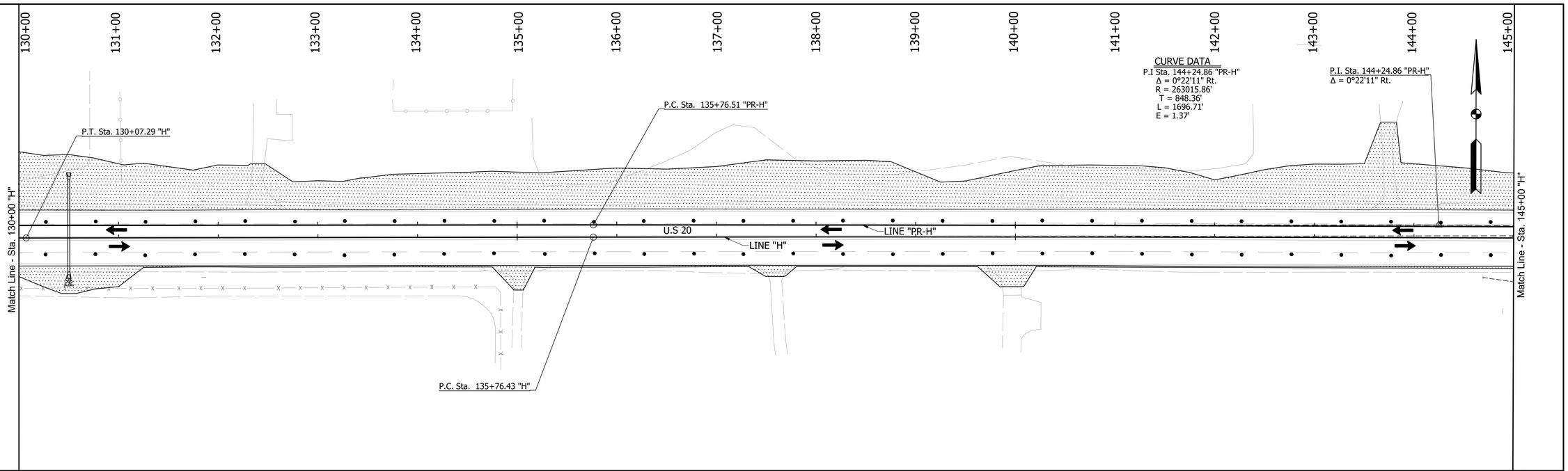


	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE: —
			VERTICAL SCALE: N/A / DESIGNATION: 1702992
	DESIGNED: CWW / DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 1	SURVEY BOOK: — / SHEET: 26 OF 229
	CHECKED: JWG / CHECKED: CWW		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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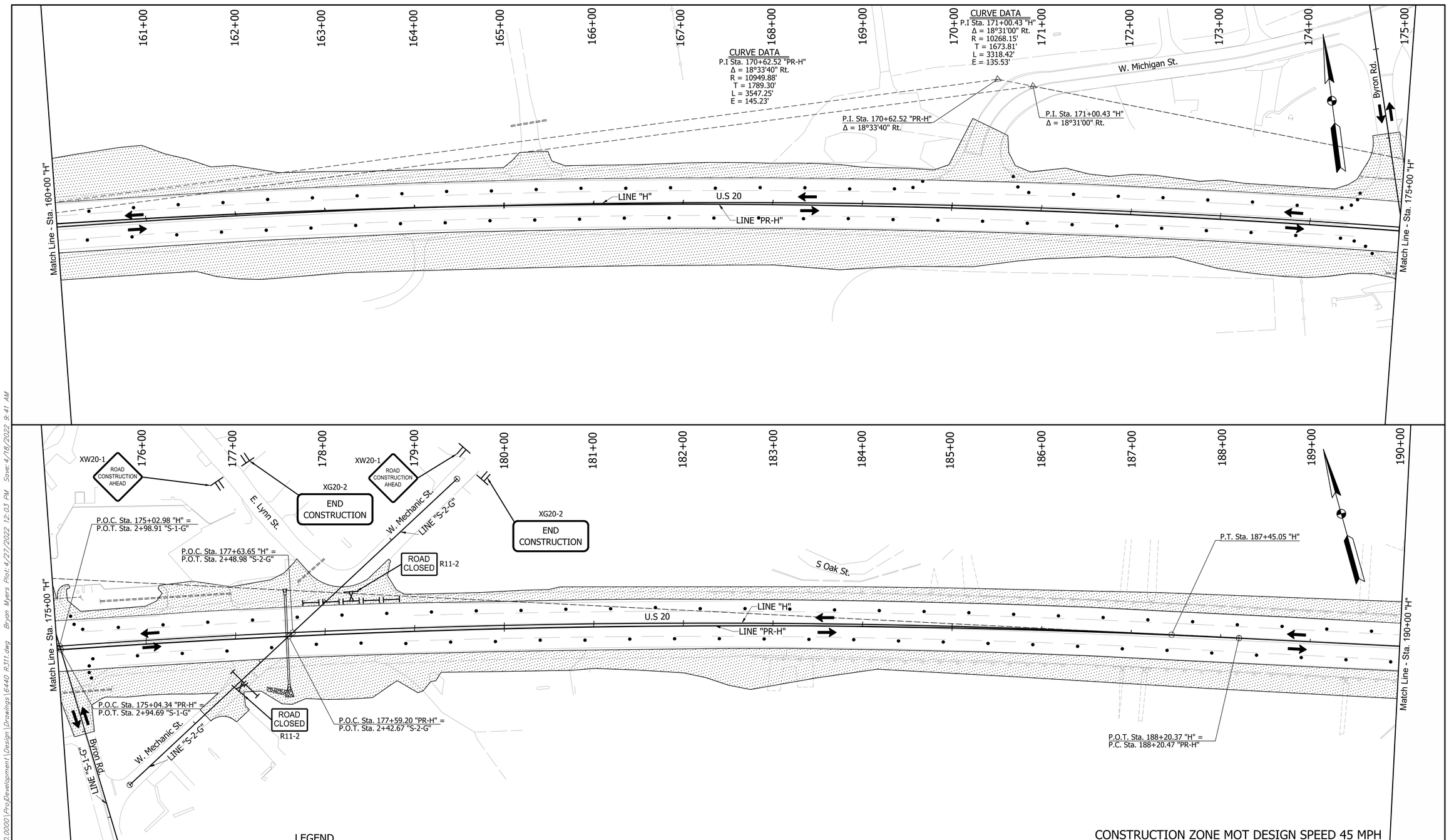
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
			VERTICAL SCALE: N/A / DESIGNATION: 1702992
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 1	SURVEY BOOK: / SHEET: 27 OF 229
CHECKED: JWG	CHECKED: CWW		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TYPE III-B BARRICADE
- TRAFFIC SIGNS
- ROAD CLOSURE SIGN ASSEMBLY

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

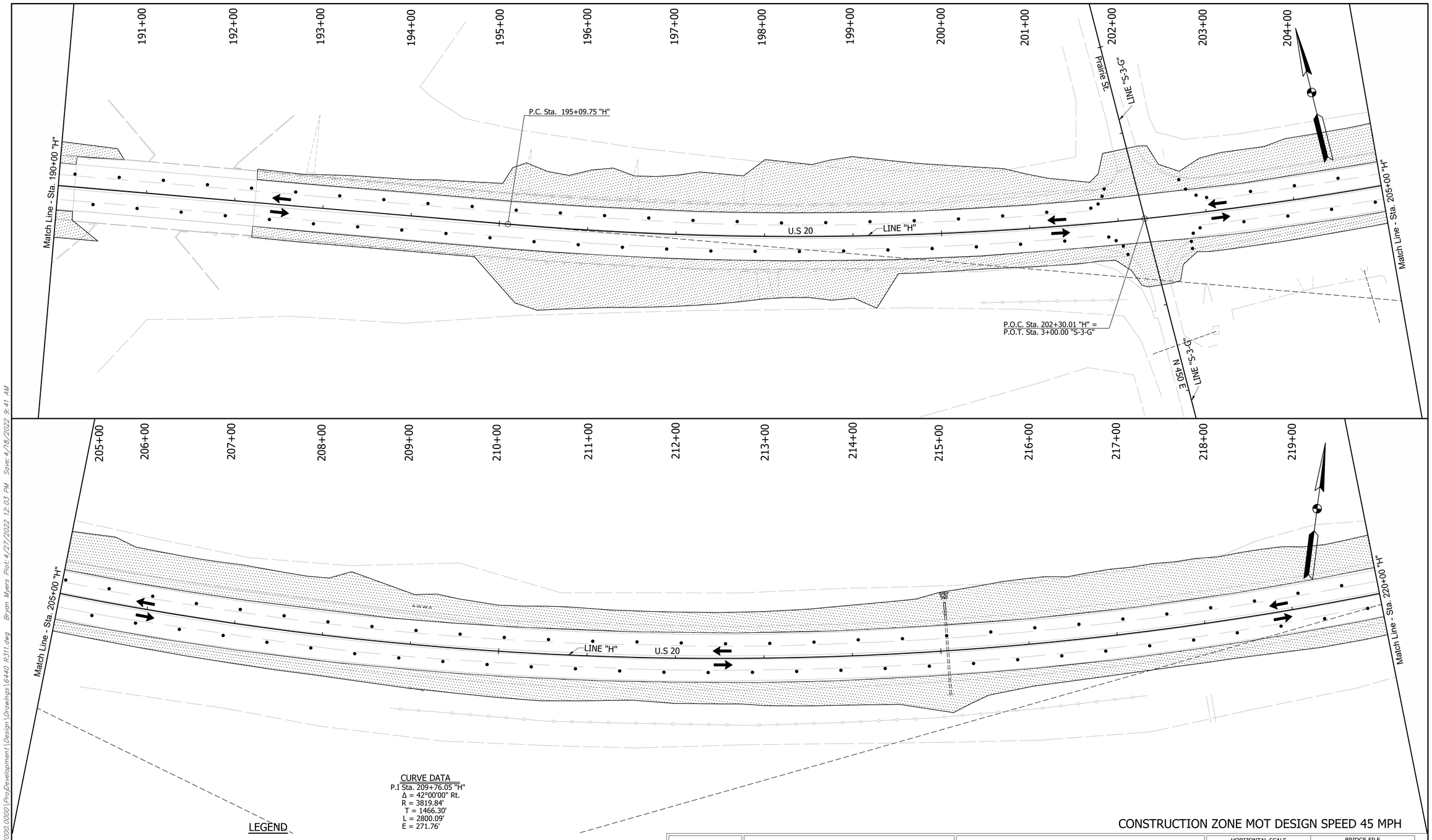
MAINTENANCE OF TRAFFIC
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	28 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

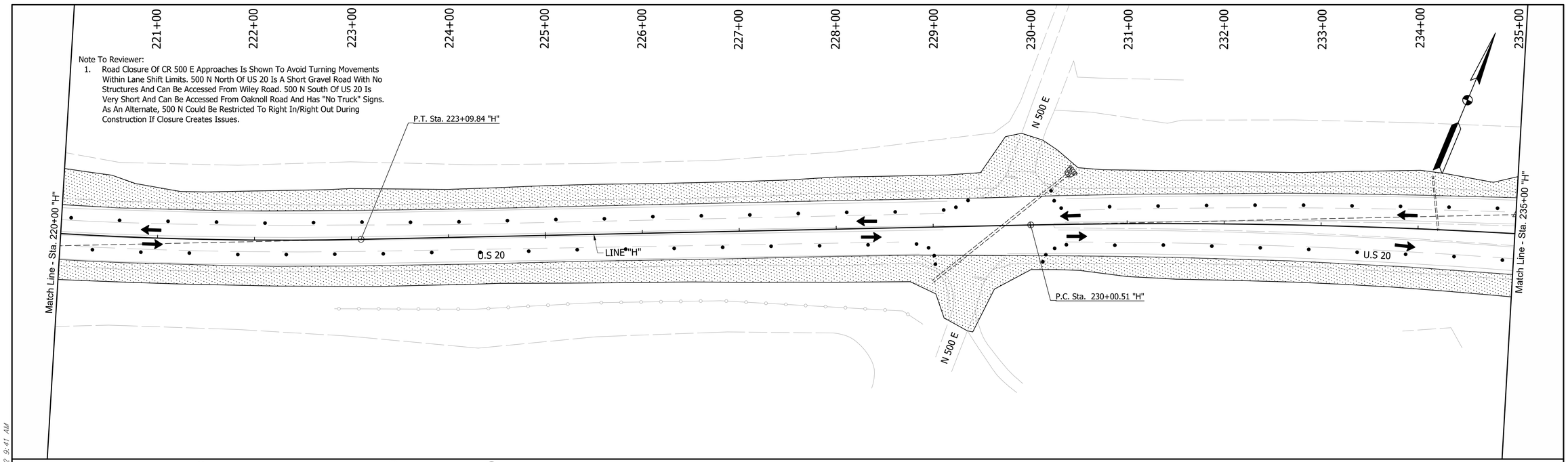
RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50' / BRIDGE FILE
			VERTICAL SCALE N/A / DESIGNATION 1702992
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 1	SURVEY BOOK / SHEET 29 OF 229
CHECKED: JWG	CHECKED: CWW		CONTRACT R-41437 / PROJECT 1702992

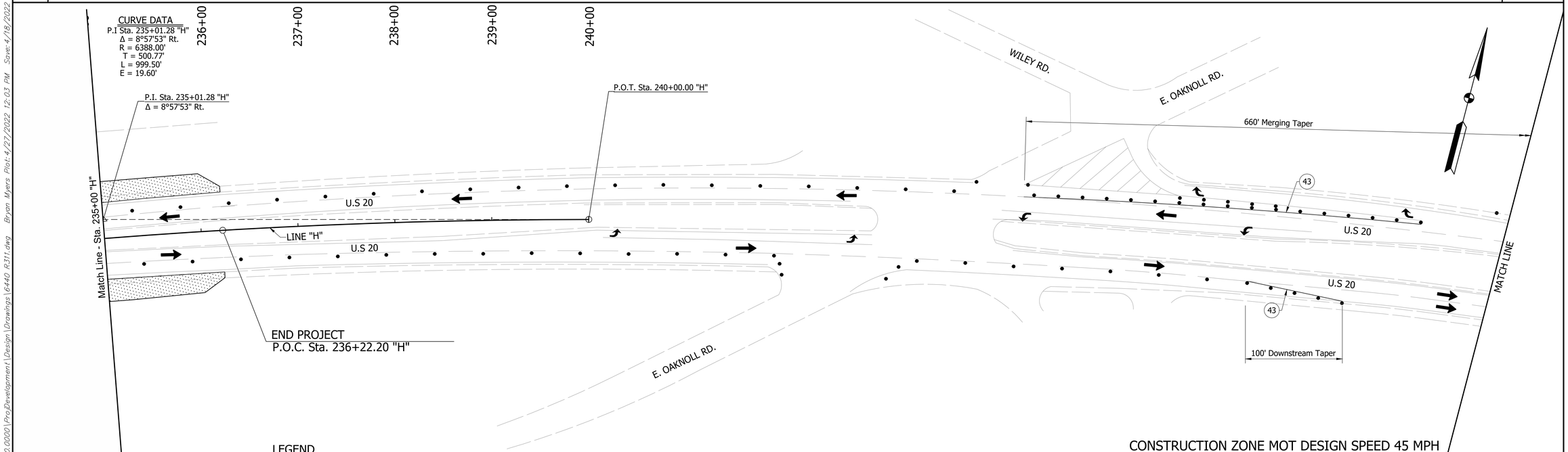
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PRELIMINARY PLANS

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LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

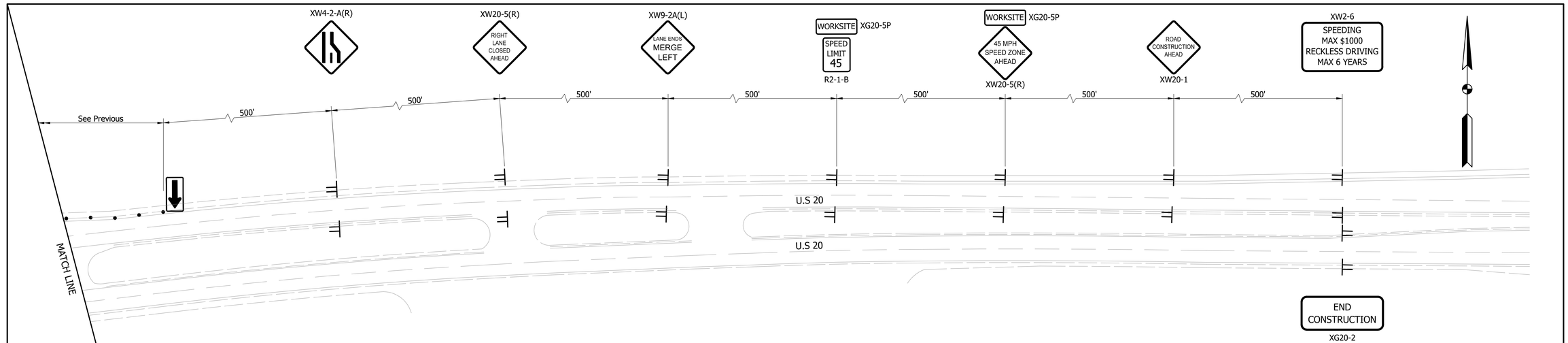
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	30 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



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LEGEND

TRAFFIC FLOW

TRAFFIC SIGNS

ARROW BOARD

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	31 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

Sequence of Operations:

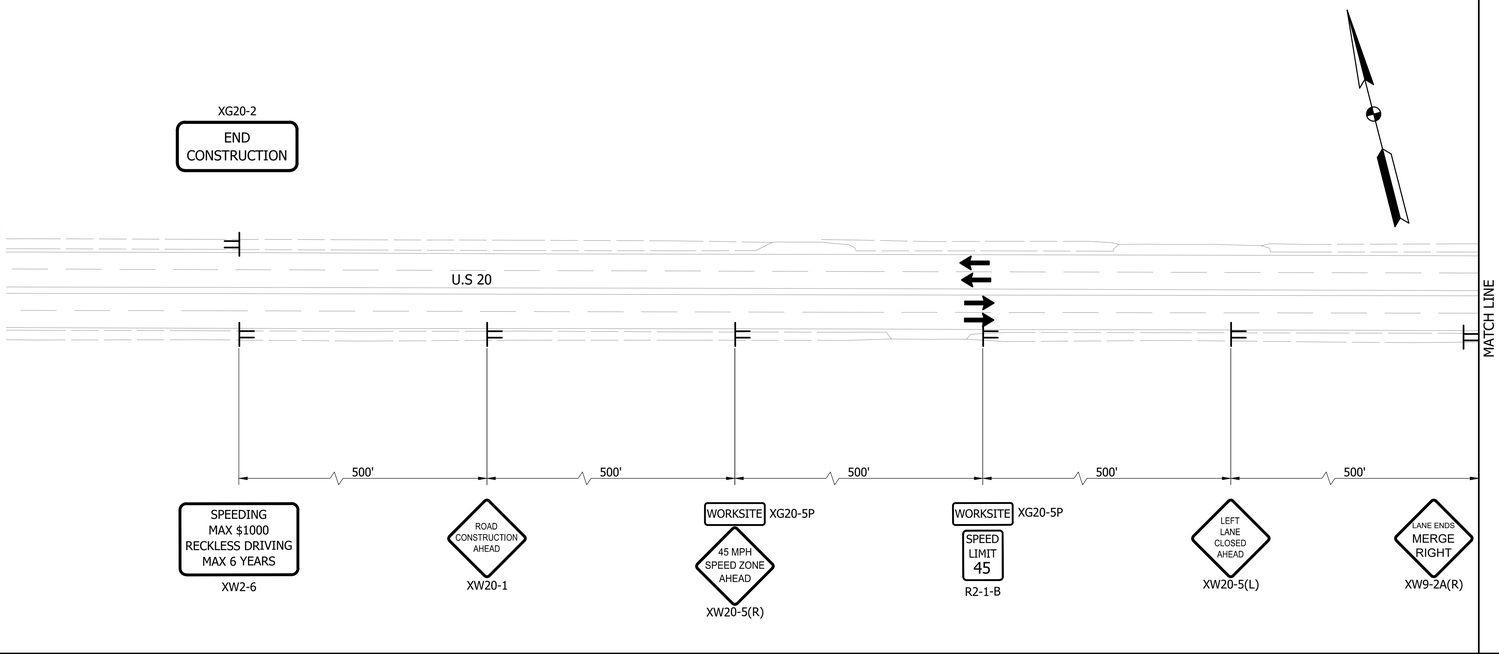
Phase 2A - Construct north side widening and the two westbound lanes of US 20

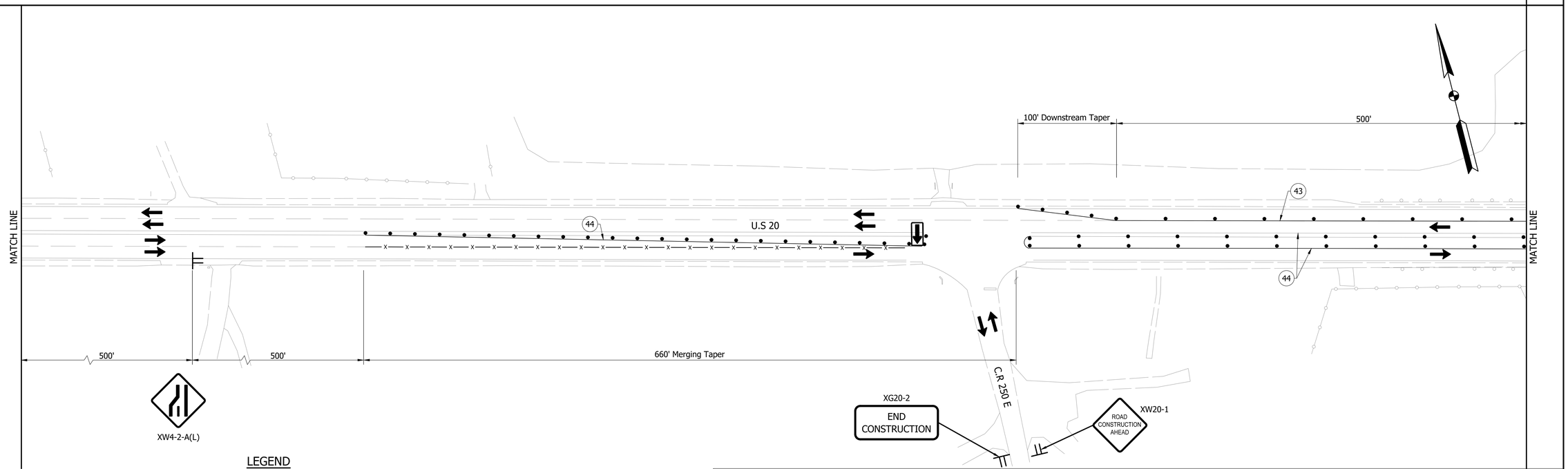
1. Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on existing pavement on the south half of US 20, with left turn only lanes and temporary traffic barrier at public road approaches.
2. Relocate flashing traffic beacons at the intersection of US 20 and Byron Road for Phase 2 traffic.
3. Close Michigan Street at US 20 to through traffic during construction to force traffic for Rolling Prairie to use the Byron St intersection.
4. Close Mechanic Street at US 20 permanently at the start of Phase 2.
5. Close CR 500E at US 20 to through traffic during construction to force traffic to use the Oak Knoll Road intersection.
6. Remove and salvage snowplowable raised pavement markers from Begin Project to End Project limits.
7. Construct and maintain erosion control measures for Erosion Control Phase 2 activities.
8. Construct proposed grading, drainage improvements, grout abandon in place culverts, pavement widening, HMA mill and overlay through surface course and guardrail on the two proposed westbound lanes of US 20.
9. Do not construct concrete center from STA 170+97 to STA 174+47, Left, in Phase 2. Place temporary HMA at this location.
10. Complete final grading and install permanent seeding on the north side of US 20.
11. Maintain ingress and egress to all properties at all times.

Sequence of Operations:

Phase 2B - Construct westbound lanes HMA mill and overlay at the temporary left turn lanes at public road approaches

1. Phase 2b construction activities shall be conducted during nighttime hours at one public road approach at a time.
2. Remove temporary left turn only lane at one public road approach at a time and maintain one lane of traffic in each direction of travel on existing pavement on the south half of US 20 during public road approach construction.
3. Remove temporary traffic barrier at the public road approach.
4. Construct HMA mill and overlay through surface course at the public road approach.
5. Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on the south half of US 20, with left turn only lanes using temporary pavement markings at public road approaches for the remaining duration of Phase 2b.





LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- PAVEMENT MARKING REMOVAL
- ARROW BOARD
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

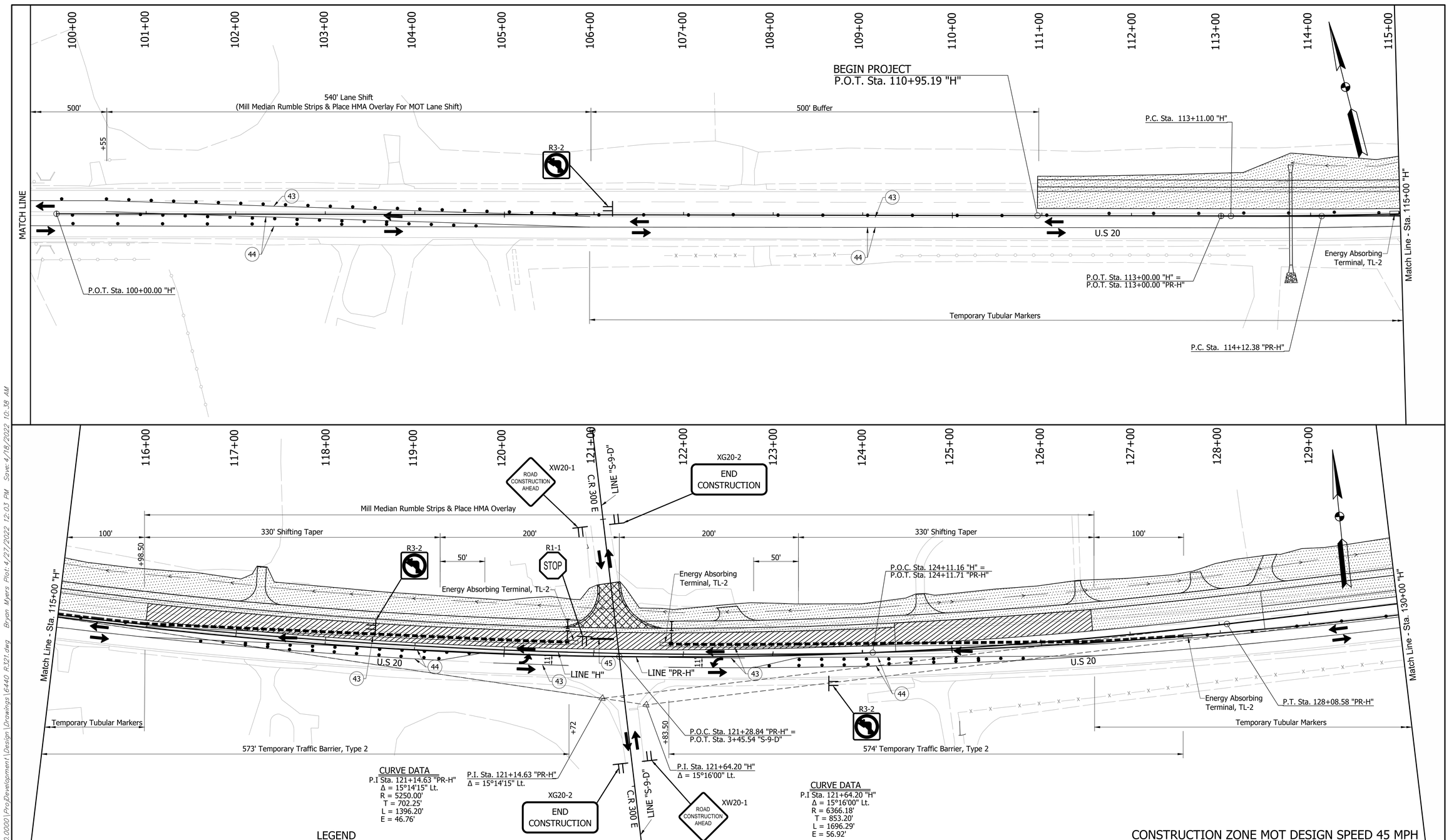
MAINTENANCE OF TRAFFIC PHASE 2A

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	32 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

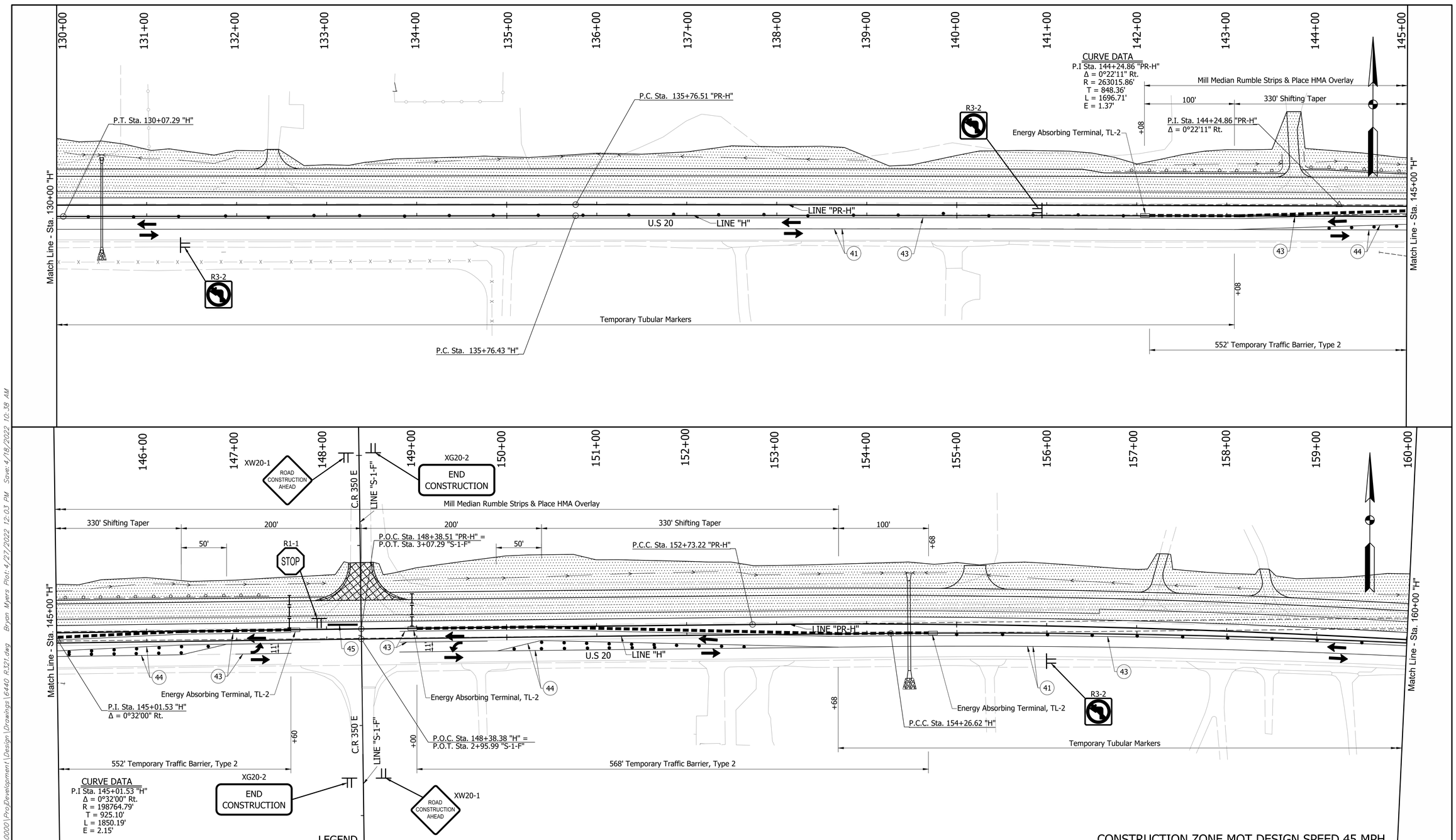
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PRELIMINARY PLANS



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PRELIMINARY PLANS



LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW | DRAWN: DRM

CHECKED: JWG | CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

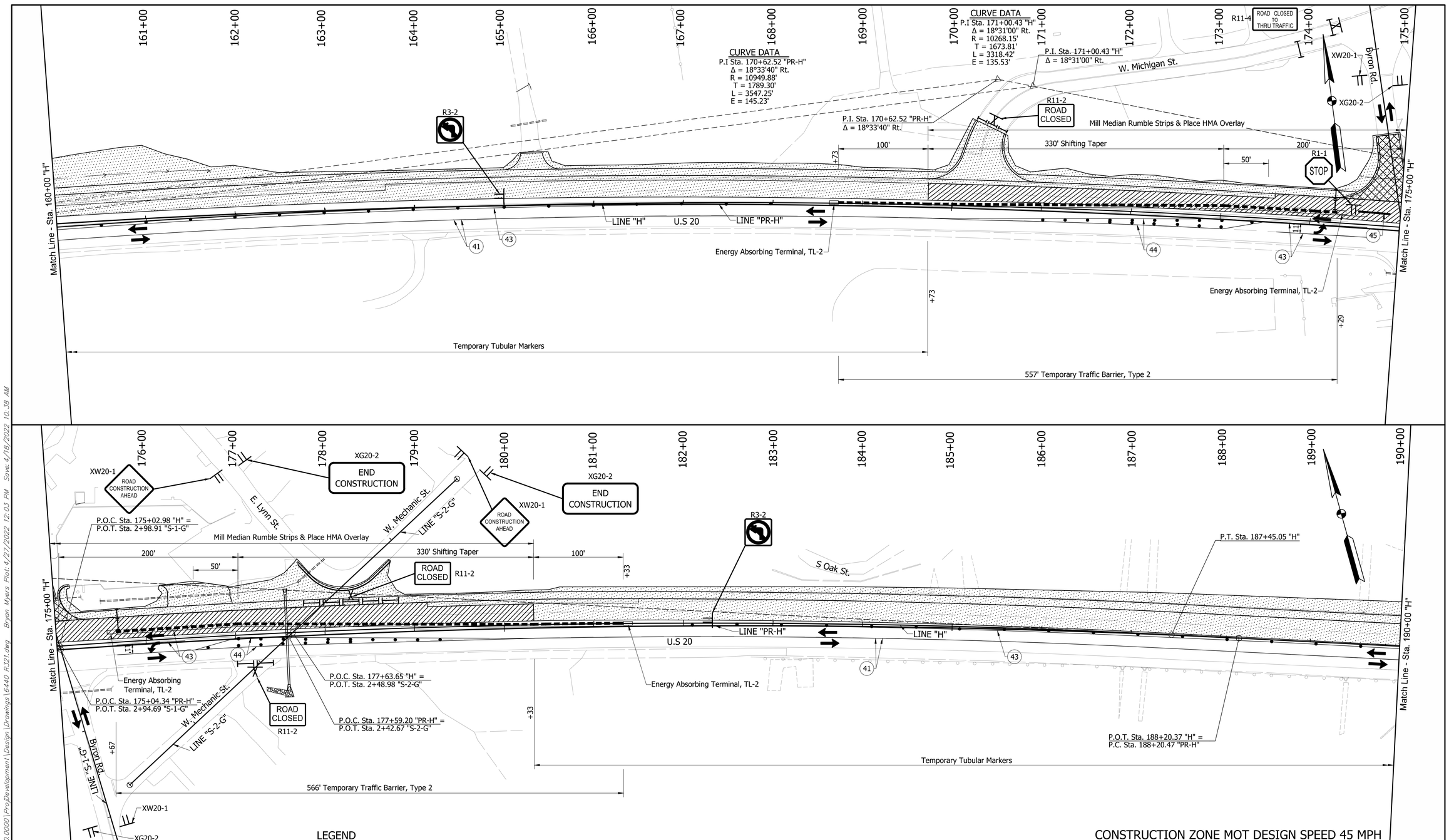
MAINTENANCE OF TRAFFIC
PHASE 2A

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	34 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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LEGEND

- PHASE 2B - MILL AND OVERLAY
- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ROAD CLOSURE SIGN ASSEMBLY
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

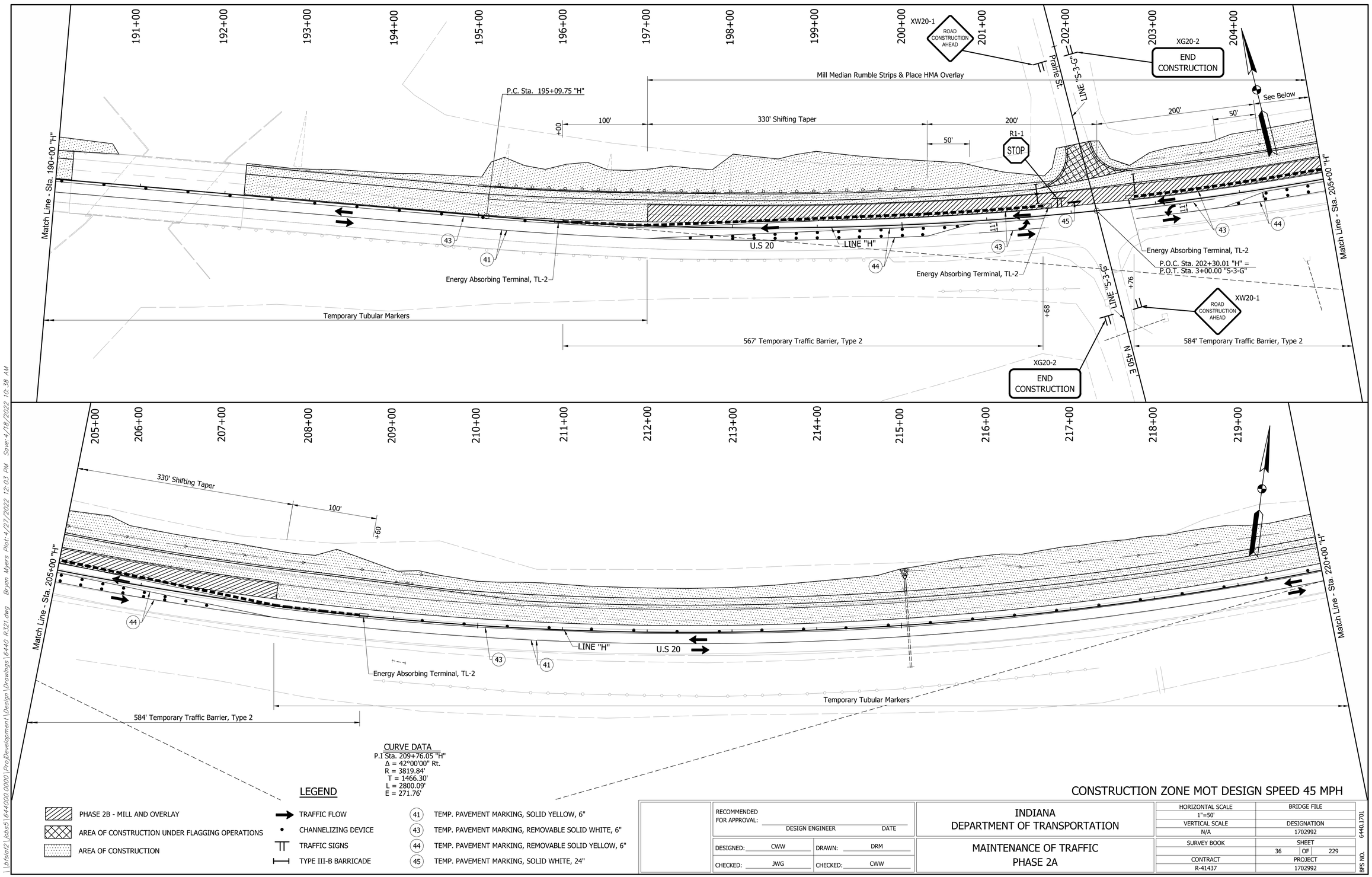
MAINTENANCE OF TRAFFIC PHASE 2A

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	35 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Rt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

LEGEND

- PHASE 2B - MILL AND OVERLAY
- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2A

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	36 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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Note To Reviewer:
1. Road Closure Of CR 500 E Approaches Is Shown To Avoid Turning Movements Within Lane Shift Limits. 500 N North Of US 20 Is A Short Gravel Road With No Structures And Can Be Accessed From Wiley Road. 500 N South Of US 20 Is Very Short And Can Be Accessed From Oaknoll Road And Has "No Truck" Signs. As An Alternate, 500 N Could Be Restricted To Right In/Right Out During Construction If Closure Creates Issues.

221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00

Match Line - Sta. 220+00 "H"

P.T. Sta. 223+09.84 "H"

+60

540' Lane Shift

ROAD CLOSED R11-2

R3-2

Match Line - Sta. 235+00 "H"

41 43 43 44 43 44 44

U.S 20 U.S 20

LINE "H"

R3-2

N 500 E

P.C. Sta. 230+00.51 "H"

R11-2 ROAD CLOSED

Temporary Tubular Markers

Mill Median Rumble Strips & Place HMA Overlay for MOT Lane Shift

CURVE DATA
P.I Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.
R = 6388.00'
T = 500.77'
L = 999.50'
E = 19.60'

236+00 237+00 238+00 239+00 240+00

P.I. Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.

P.O.T. Sta. 240+00.00 "H"

500' Buffer

XG20-2 END CONSTRUCTION

XW20-1 ROAD CONSTRUCTION AHEAD

WILEY RD.

E. OAKNOLL RD.

XW20-1 ROAD CONSTRUCTION AHEAD

660' Merging Taper

Match Line - Sta. 235+00 "H"

43 44 43 43 44

U.S 20 U.S 20

LINE "H"

MATCH LINE

END PROJECT
P.O.C. Sta. 236+22.20 "H"

XG20-2 END CONSTRUCTION

E. OAKNOLL RD.

KEEP RIGHT R4-7

100' Downstream Taper

XW20-1 ROAD CONSTRUCTION AHEAD

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- ROAD CLOSURE SIGN ASSEMBLY
- PAVEMENT MARKING REMOVAL
- (41) TEMP. PAVEMENT MARKING, SOLID YELLOW, 6"
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

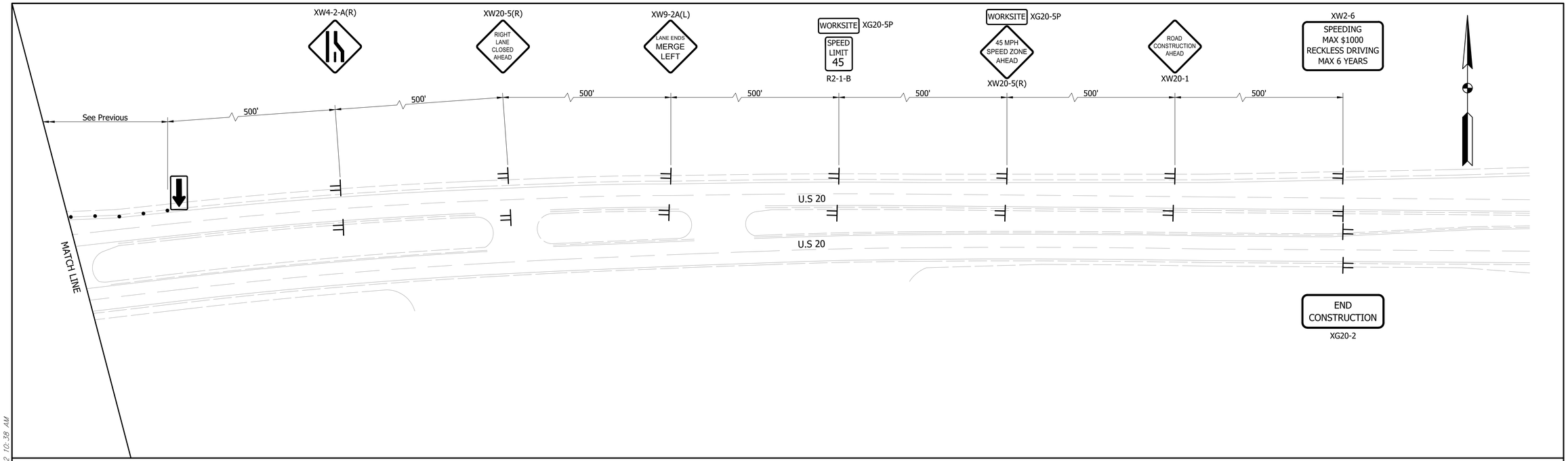
MAINTENANCE OF TRAFFIC PHASE 2A

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	37 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD

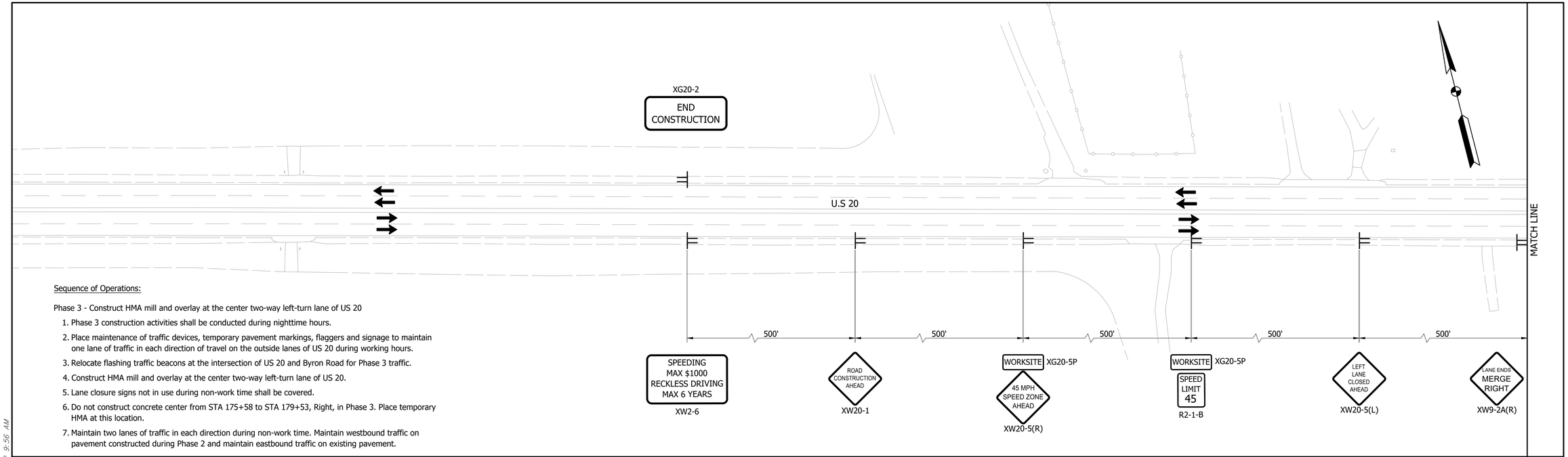
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
			VERTICAL SCALE: N/A / DESIGNATION: 1702992
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 2A	SURVEY BOOK: / SHEET: 38 OF 229
CHECKED: JWG	CHECKED: CWW		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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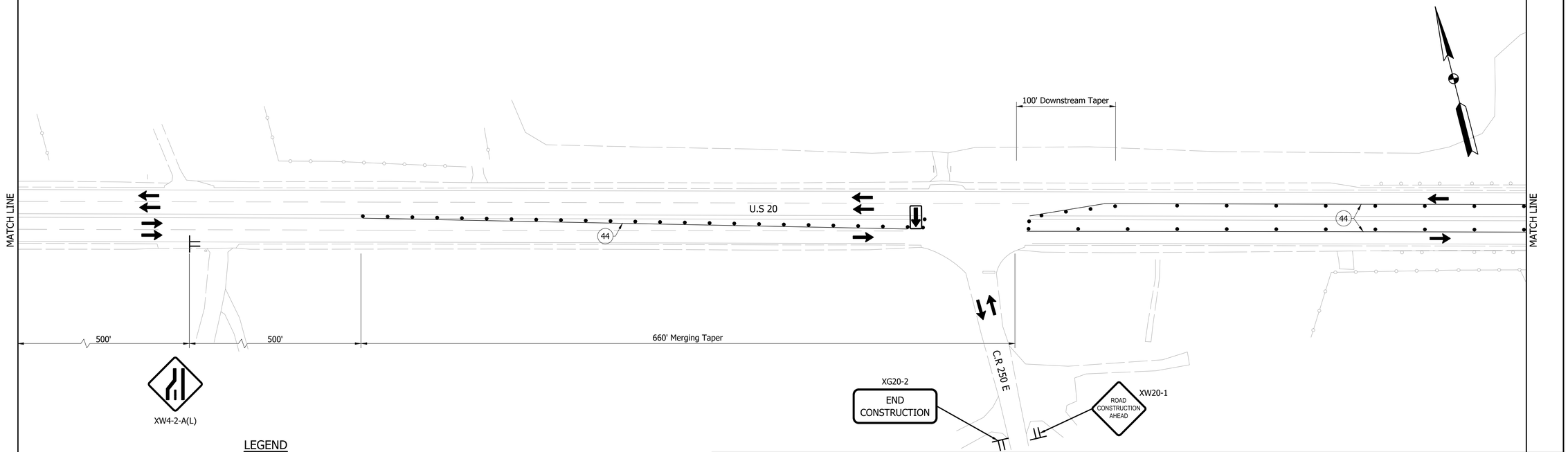
PRELIMINARY PLANS



Sequence of Operations:

Phase 3 - Construct HMA mill and overlay at the center two-way left-turn lane of US 20

1. Phase 3 construction activities shall be conducted during nighttime hours.
2. Place maintenance of traffic devices, temporary pavement markings, flaggers and signage to maintain one lane of traffic in each direction of travel on the outside lanes of US 20 during working hours.
3. Relocate flashing traffic beacons at the intersection of US 20 and Byron Road for Phase 3 traffic.
4. Construct HMA mill and overlay at the center two-way left-turn lane of US 20.
5. Lane closure signs not in use during non-work time shall be covered.
6. Do not construct concrete center from STA 175+58 to STA 179+53, Right, in Phase 3. Place temporary HMA at this location.
7. Maintain two lanes of traffic in each direction during non-work time. Maintain westbound traffic on pavement constructed during Phase 2 and maintain eastbound traffic on existing pavement.



LEGEND

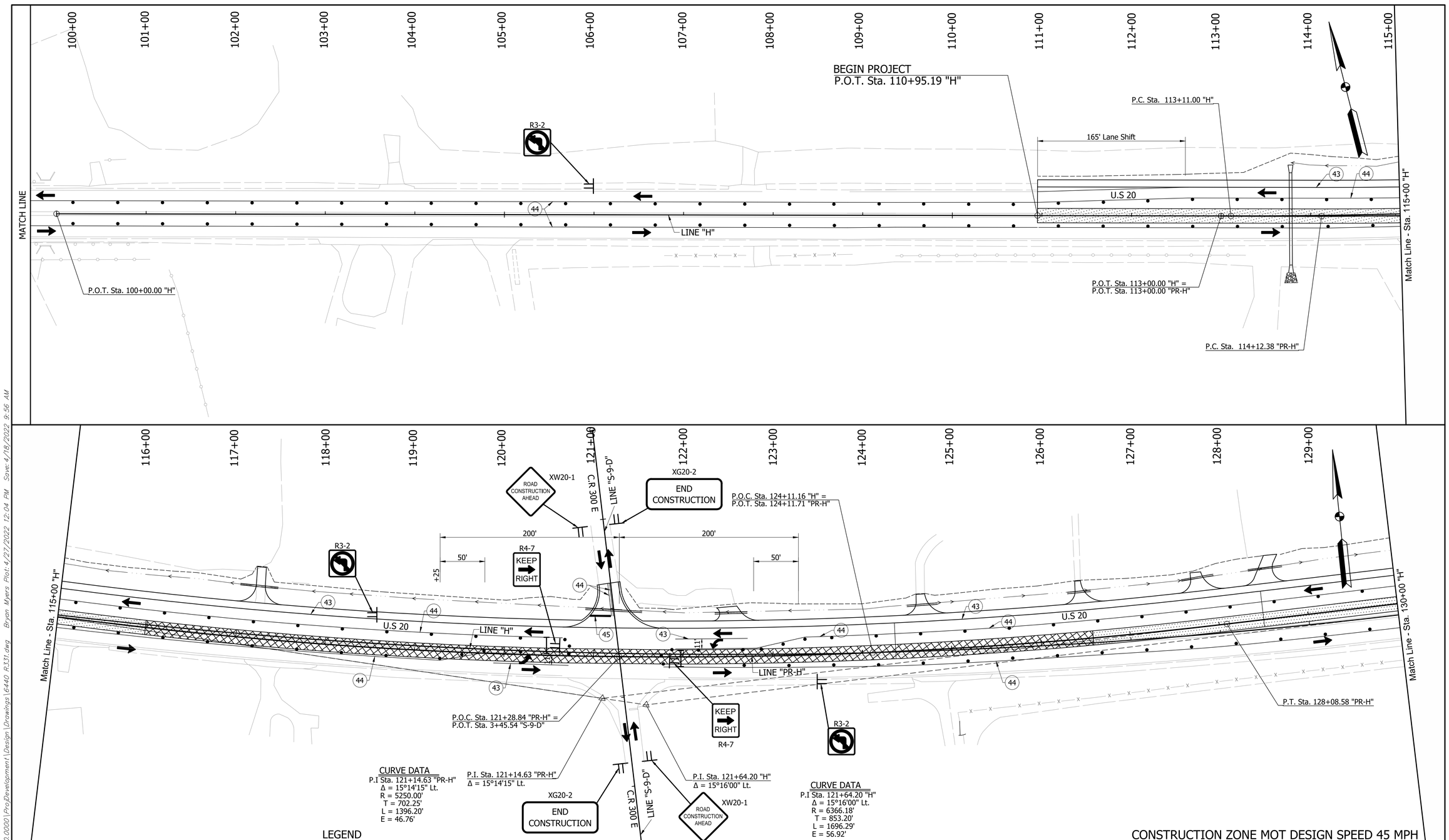
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
			VERTICAL SCALE: N/A / DESIGNATION: 1702992
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 3	SURVEY BOOK: / SHEET: 39 OF 229
CHECKED: JWG	CHECKED: CWW		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

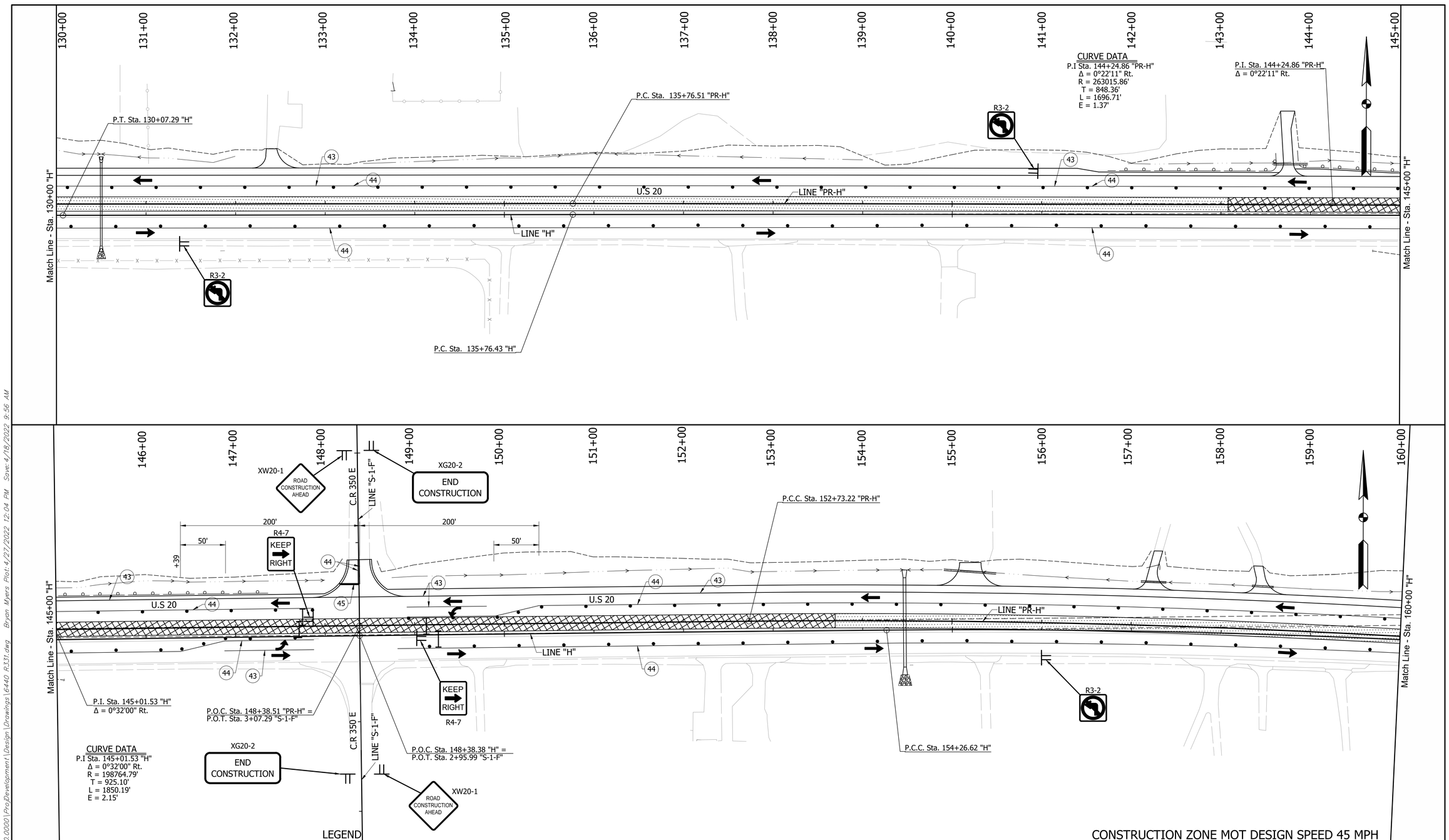
MAINTENANCE OF TRAFFIC
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	40 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

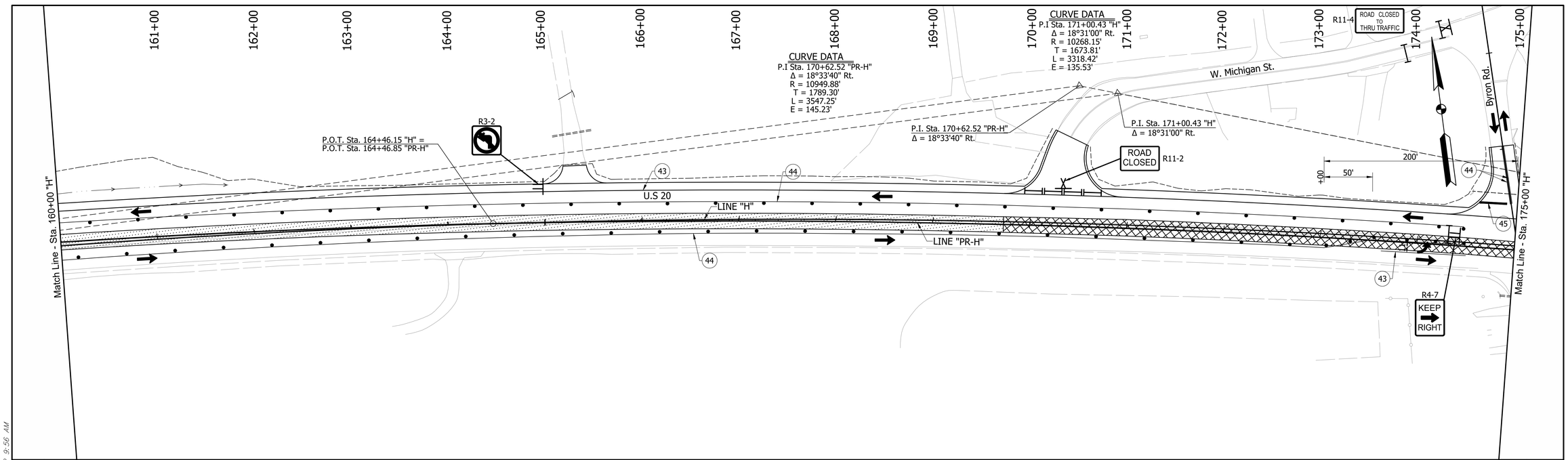
MAINTENANCE OF TRAFFIC
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	41 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ROAD CLOSURE SIGN ASSEMBLY
- TYPE III-B BARRICADE
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

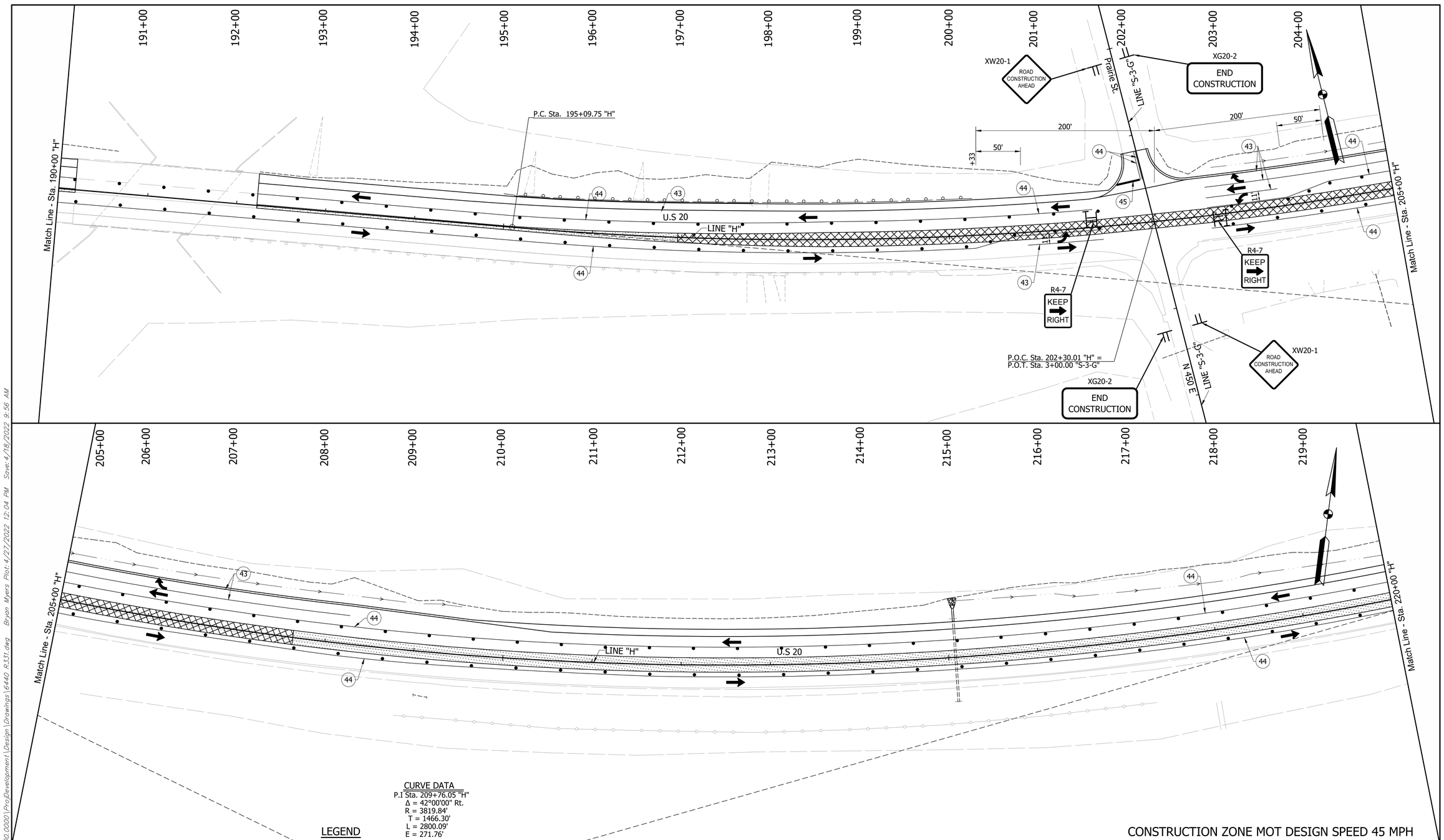
MAINTENANCE OF TRAFFIC PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	42 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Rt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TYPE III-B BARRICADE
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	43 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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Note To Reviewer:
1. Road Closure Of CR 500 E Approaches Is Shown To Avoid Turning Movements Within Lane Shift Limits. 500 N North Of US 20 Is A Short Gravel Road With No Structures And Can Be Accessed From Wiley Road. 500 N South Of US 20 Is Very Short And Can Be Accessed From Oaknoll Road And Has "No Truck" Signs. As An Alternate, 500 N Could Be Restricted To Right In/Right Out During Construction If Closure Creates Issues.

221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00

Match Line - Sta. 220+00 "H"

P.T. Sta. 223+09.84 "H"

U.S 20

LINE "H"

R3-2

R11-2 ROAD CLOSED

P.C. Sta. 230+00.51 "H"

N 500 E

R11-2 ROAD CLOSED

R3-2

U.S 20

Match Line - Sta. 235+00 "H"

CURVE DATA
P.I Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.
R = 6388.00'
T = 500.77'
L = 999.50'
E = 19.60'

236+00 237+00 238+00 239+00 240+00

P.I. Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.

P.O.T. Sta. 240+00.00 "H"

XW20-1 ROAD CONSTRUCTION AHEAD

R4-7 KEEP RIGHT

XG20-2 END CONSTRUCTION

WILEY RD.

E. OAKNOLL RD.

660' Merging Taper

Match Line - Sta. 235+00 "H"

LINE "H"

U.S 20

END PROJECT
P.O.C. Sta. 236+22.20 "H"

XG20-2 END CONSTRUCTION

E. OAKNOLL RD.

XW20-1 ROAD CONSTRUCTION AHEAD

U.S 20

MATCH LINE

KEEP RIGHT
R4-7

100' Downstream Taper

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ROAD CLOSURE SIGN ASSEMBLY
- TYPE III-B BARRICADE
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

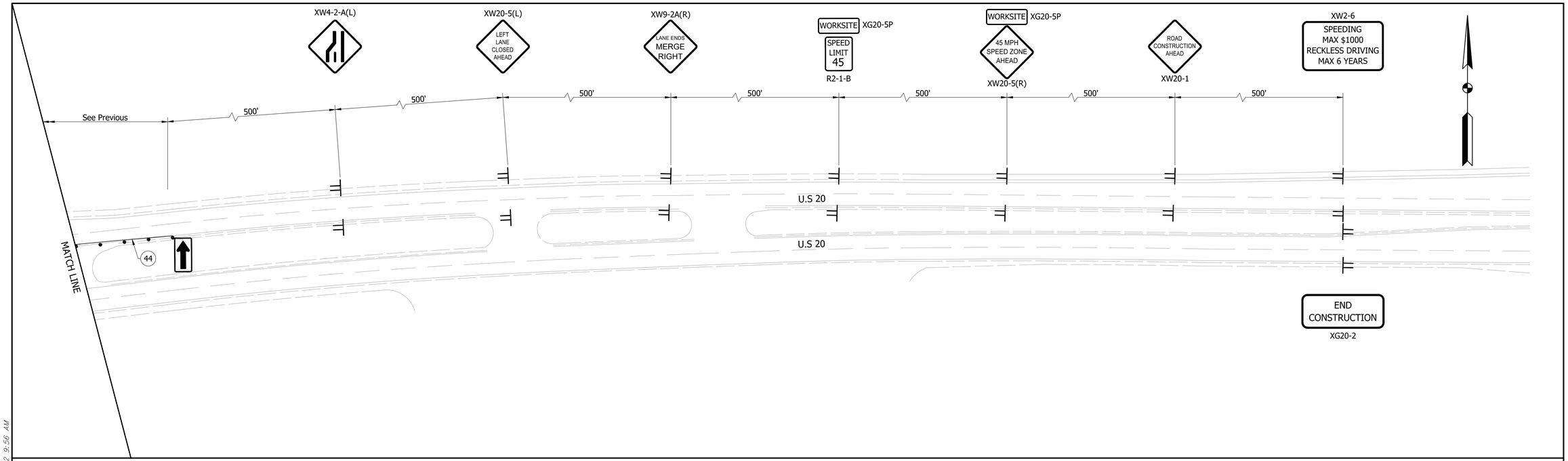
MAINTENANCE OF TRAFFIC
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	44 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW | DRAWN: DRM

CHECKED: JWG | CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

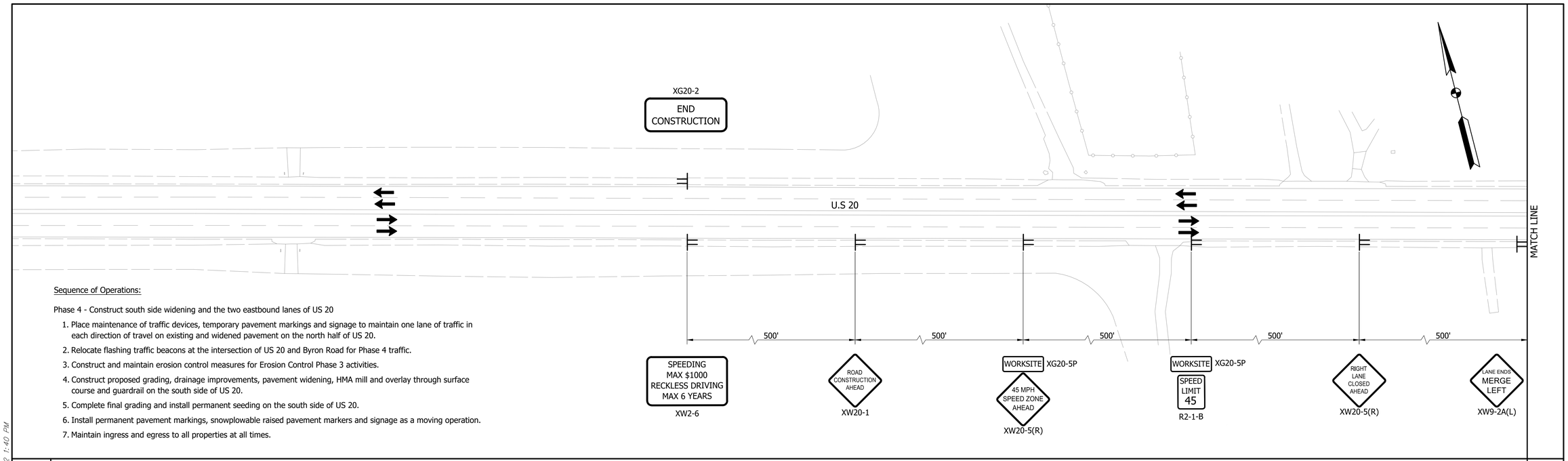
MAINTENANCE OF TRAFFIC
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	45 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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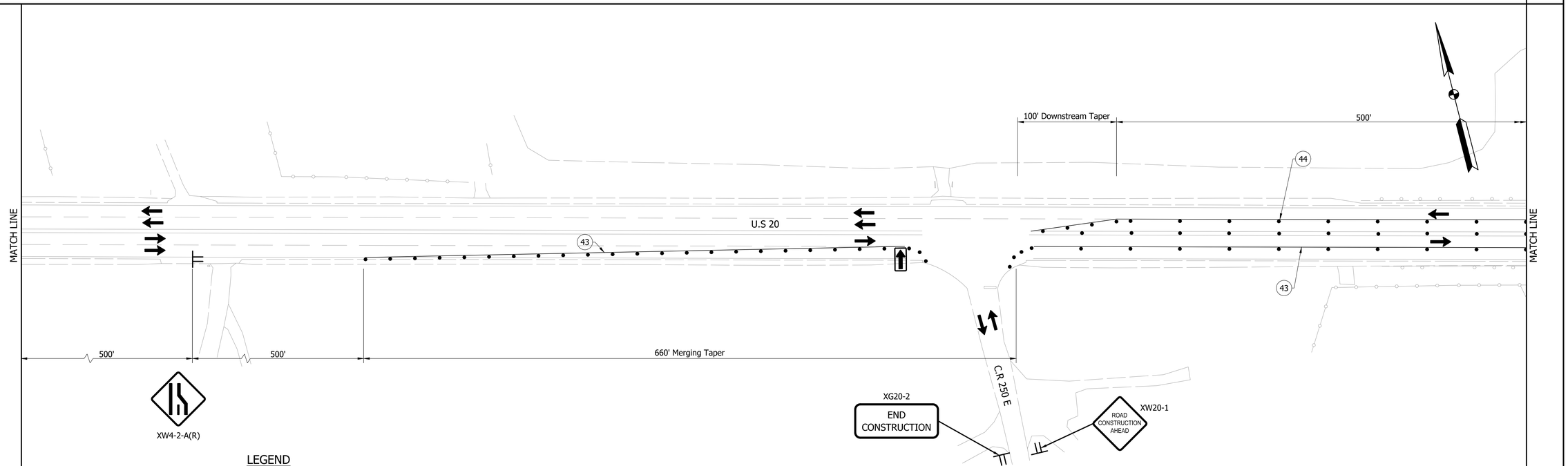
PRELIMINARY PLANS



Sequence of Operations:

Phase 4 - Construct south side widening and the two eastbound lanes of US 20

1. Place maintenance of traffic devices, temporary pavement markings and signage to maintain one lane of traffic in each direction of travel on existing and widened pavement on the north half of US 20.
2. Relocate flashing traffic beacons at the intersection of US 20 and Byron Road for Phase 4 traffic.
3. Construct and maintain erosion control measures for Erosion Control Phase 3 activities.
4. Construct proposed grading, drainage improvements, pavement widening, HMA mill and overlay through surface course and guardrail on the south side of US 20.
5. Complete final grading and install permanent seeding on the south side of US 20.
6. Install permanent pavement markings, snowplowable raised pavement markers and signage as a moving operation.
7. Maintain ingress and egress to all properties at all times.



LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

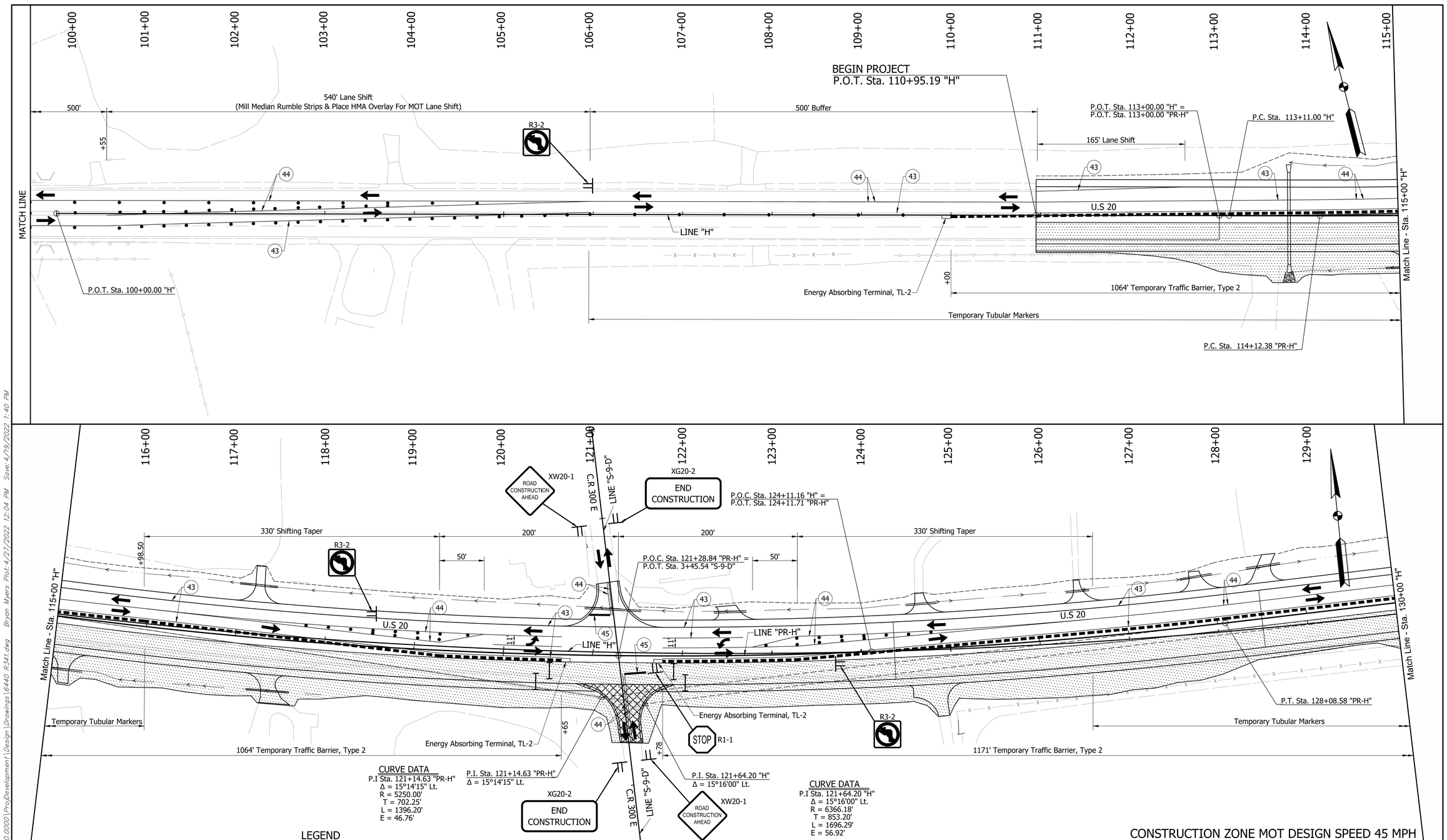
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	46 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

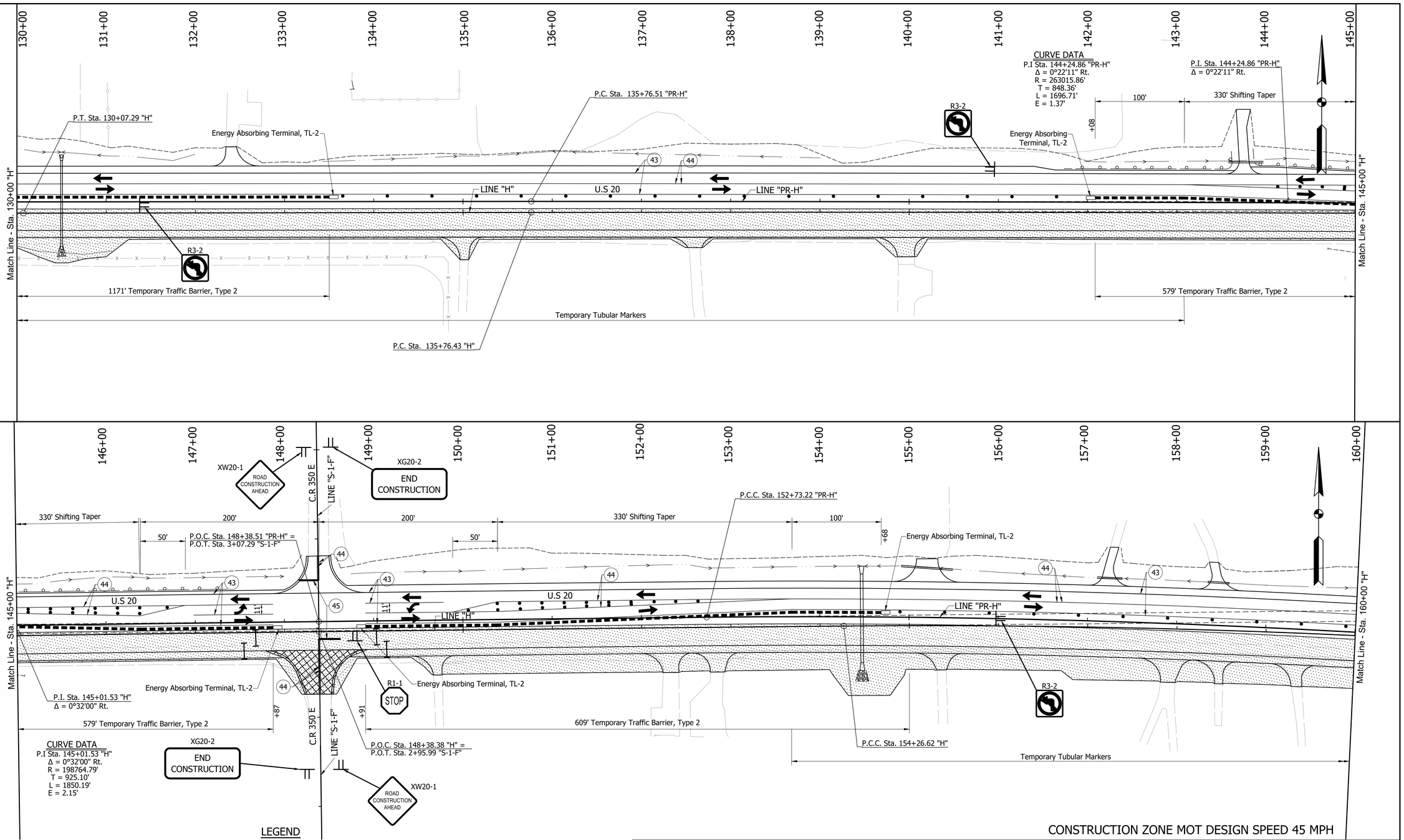
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	47 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- TYPE III-B BARRICADE
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TEMP. TRAFFIC BARRIER, TYPE 2
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

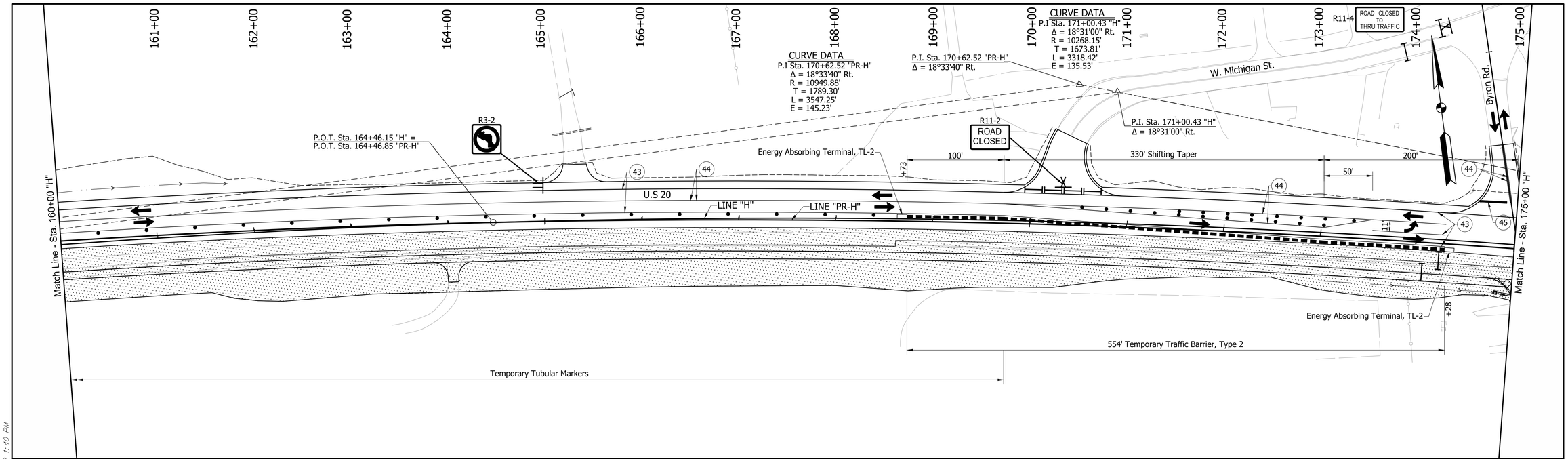
MAINTENANCE OF TRAFFIC PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	48 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

D:\fs02_jobs\644000.0000\ProjDevelopment\Design\Drawings\6440_R341.dwg Bryan Myers Plot:4/27/2022 12:04 PM Save:4/19/2022 1:40 PM



CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- TYPE III-B BARRICADE
- CHANNELIZING DEVICE
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- TEMP. TRAFFIC BARRIER, TYPE 2
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
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- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

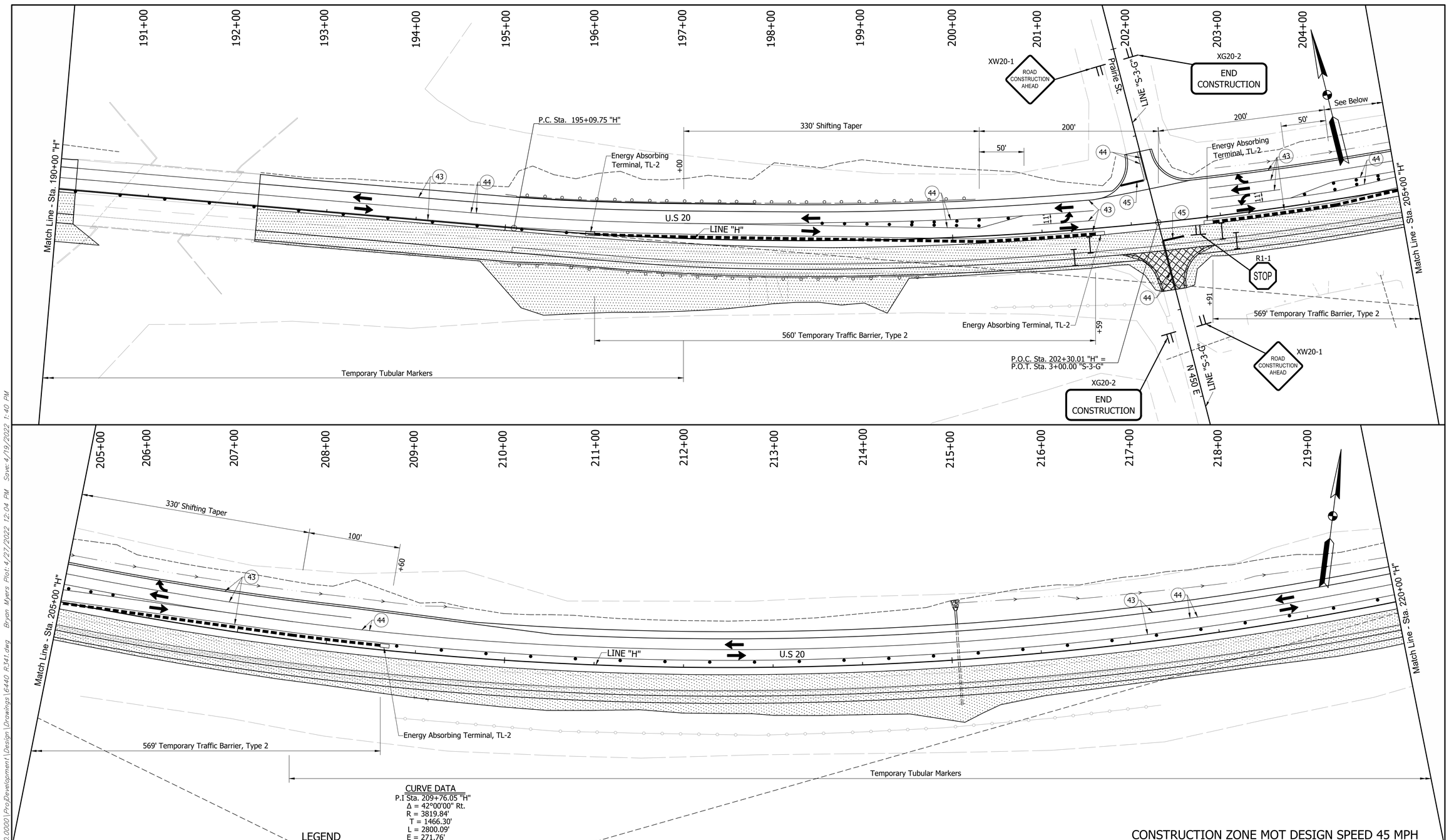
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	49 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

I:\fsta02\jobs5\644000.0000\ProjDevelopment\Design\Drawings\6440_R341.dwg Bryon Myers Plot:4/27/2022 12:04 PM Save:4/19/2022 1:40 PM



CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Rt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

LEGEND

- AREA OF CONSTRUCTION UNDER FLAGGING OPERATIONS
- AREA OF CONSTRUCTION
- TRAFFIC FLOW
- TYPE III-B BARRICADE
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- TEMP. TRAFFIC BARRIER, TYPE 2
- (43) TEMP. PAVEMENT MARKING, REMOVABLE SOLID WHITE, 6"
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"
- (45) TEMP. PAVEMENT MARKING, SOLID WHITE, 24"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM
CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

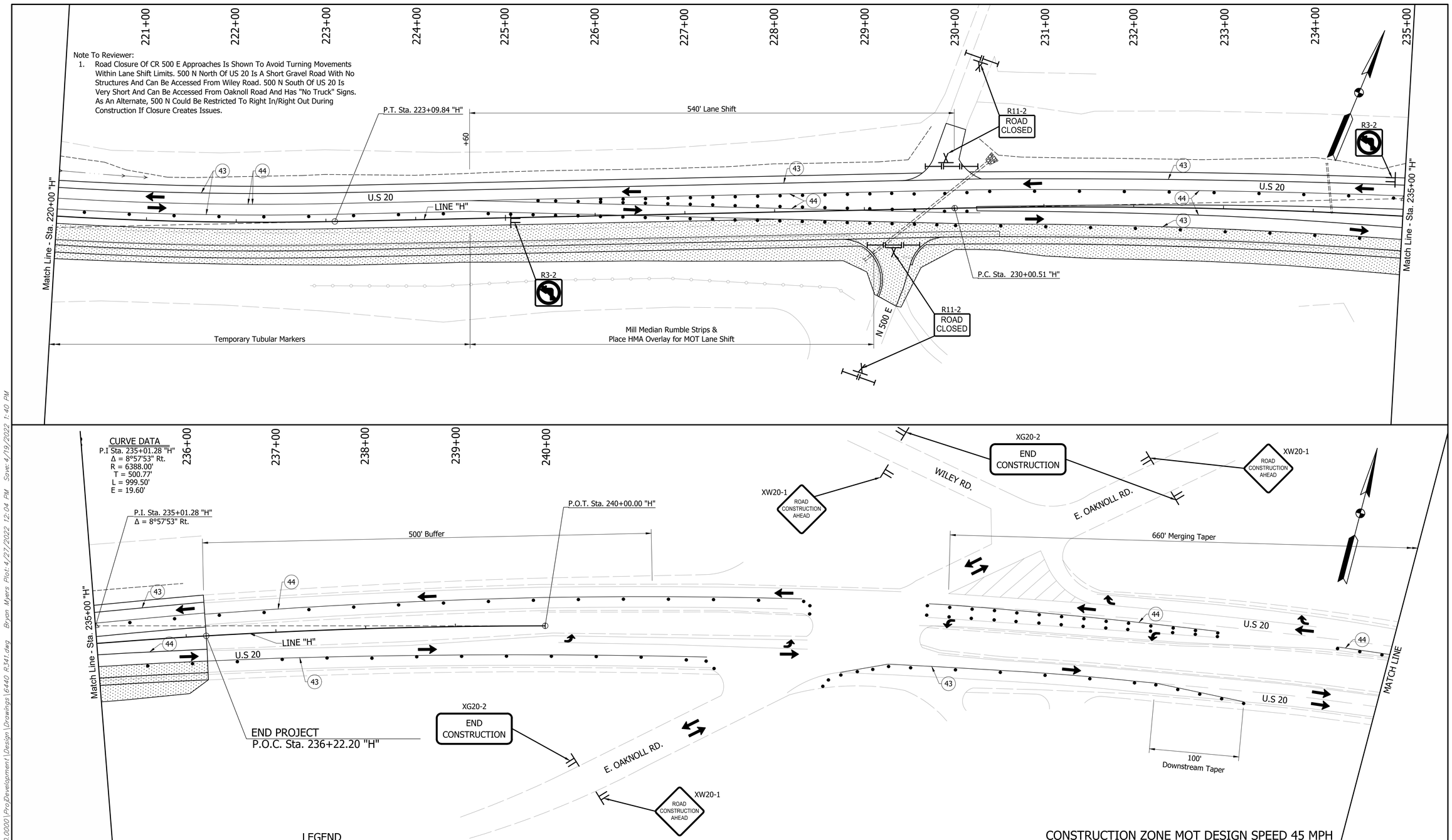
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	50 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

I:\sfs02_jobs5\644000.0000\ProjDevelopment\Design\Drawings\6440_R341.dwg Bryan Myers Plot:4/27/2022 12:04 PM Save:4/19/2022 1:40 PM



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA
DEPARTMENT OF TRANSPORTATION

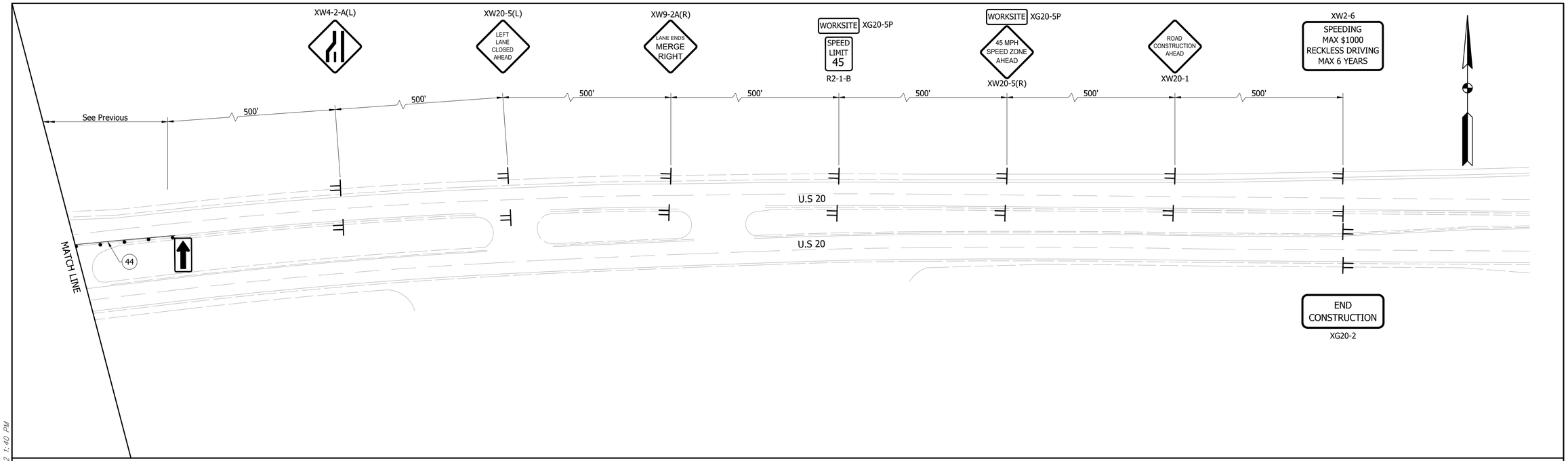
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	51 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS
- ARROW BOARD
- (44) TEMP. PAVEMENT MARKING, REMOVABLE SOLID YELLOW, 6"

CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: CWW DRAWN: DRM

CHECKED: JWG CHECKED: CWW

INDIANA DEPARTMENT OF TRANSPORTATION

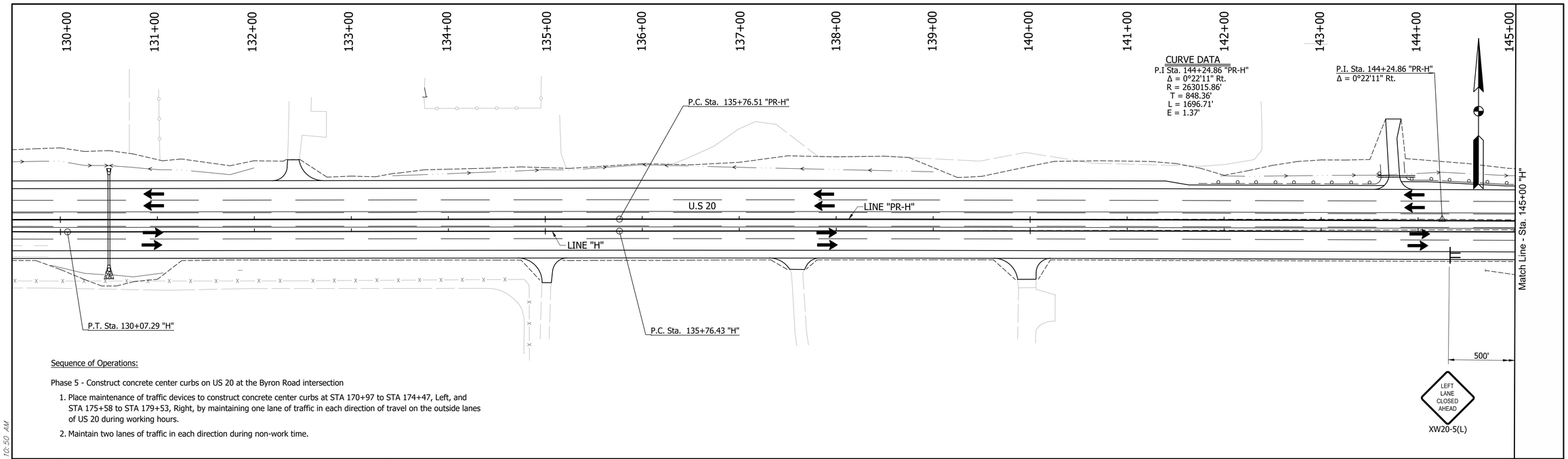
MAINTENANCE OF TRAFFIC PHASE 4

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	52 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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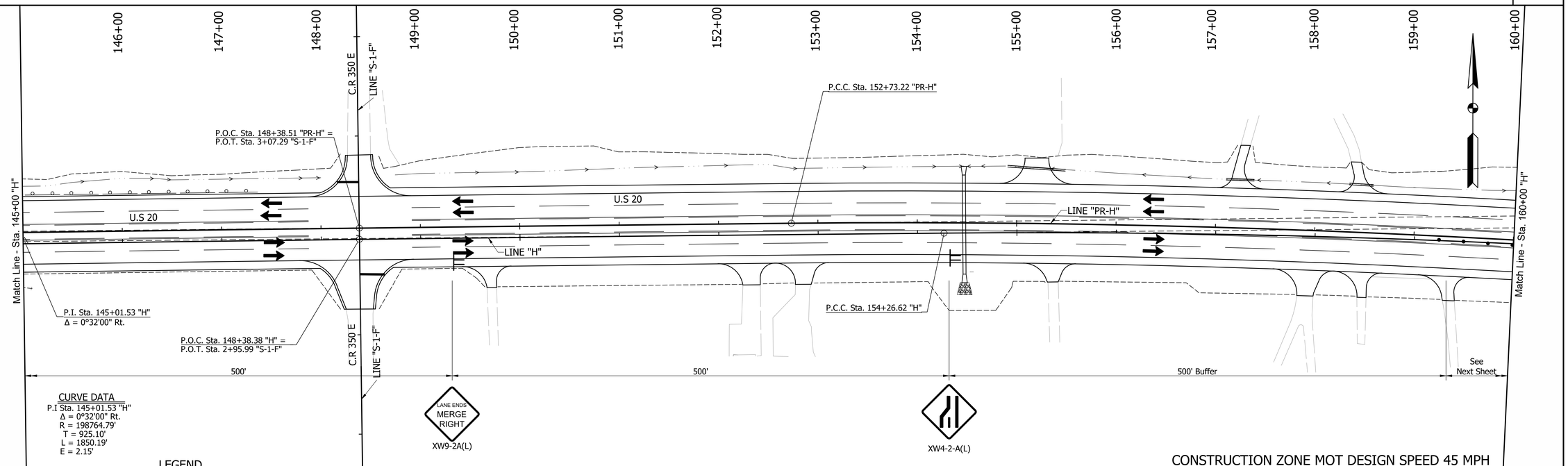
PRELIMINARY PLANS



Sequence of Operations:

Phase 5 - Construct concrete center curbs on US 20 at the Byron Road intersection

1. Place maintenance of traffic devices to construct concrete center curbs at STA 170+97 to STA 174+47, Left, and STA 175+58 to STA 179+53, Right, by maintaining one lane of traffic in each direction of travel on the outside lanes of US 20 during working hours.
2. Maintain two lanes of traffic in each direction during non-work time.



LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

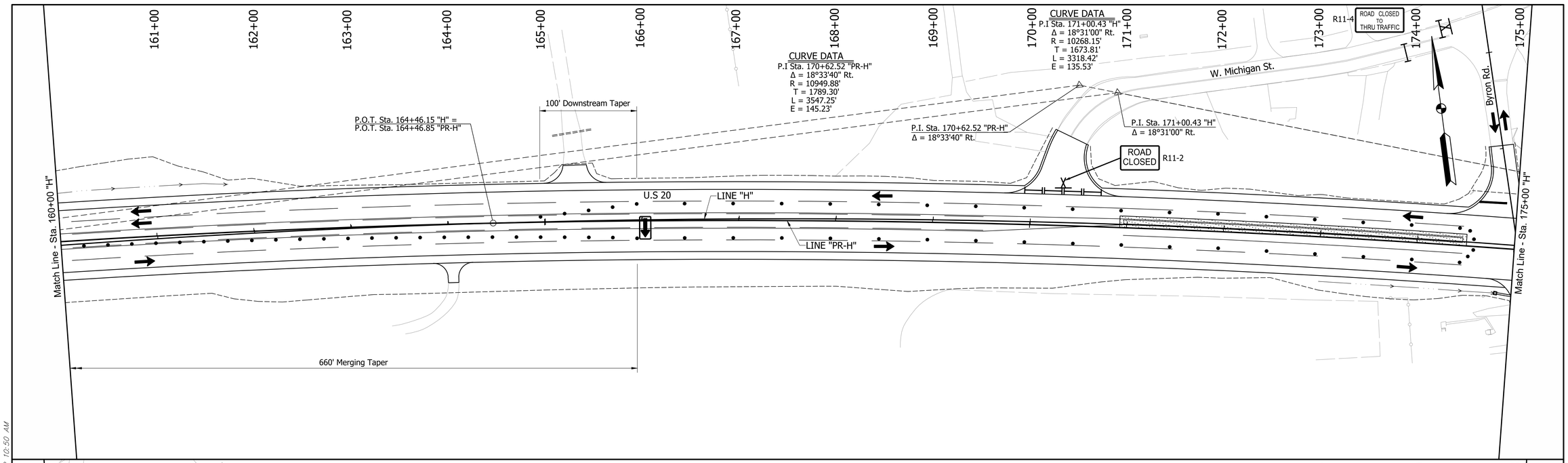
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=50' / BRIDGE FILE:
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 5	VERTICAL SCALE: N/A / DESIGNATION: 1702992
CHECKED: JWG	CHECKED: CWW		SURVEY BOOK: / SHEET: 53 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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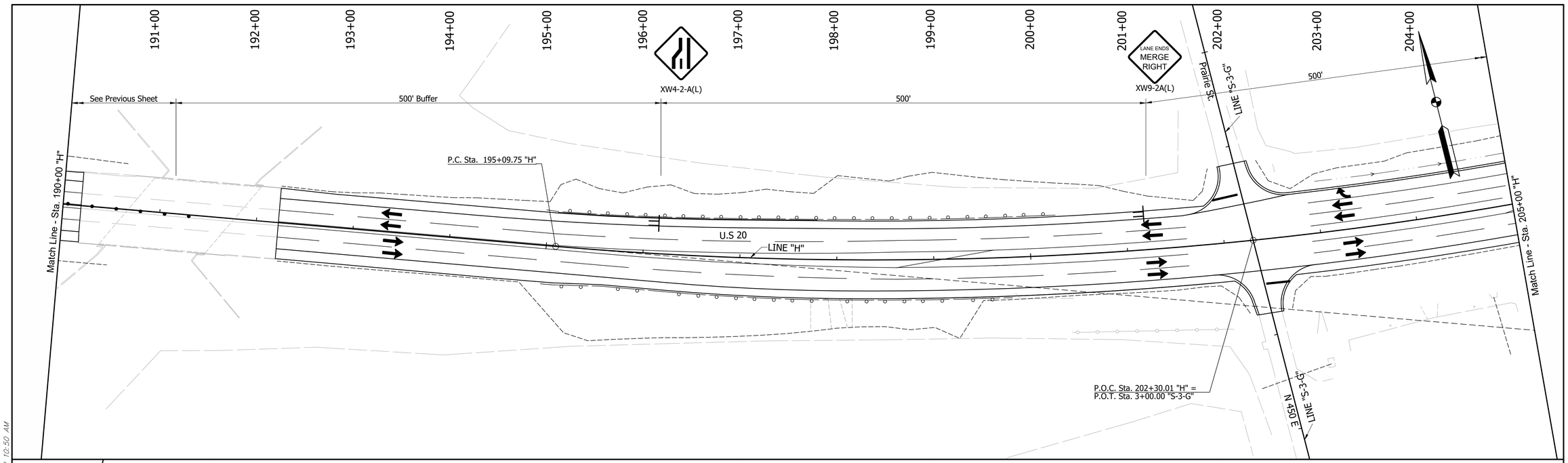
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50' / BRIDGE FILE
	DESIGNED: CWW / DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 5	VERTICAL SCALE N/A / DESIGNATION 1702992
	CHECKED: JWG / CHECKED: CWW		SURVEY BOOK / SHEET 54 OF 229
			CONTRACT R-41437 / PROJECT 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Rt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

LEGEND

- TRAFFIC FLOW
- CHANNELIZING DEVICE
- TRAFFIC SIGNS

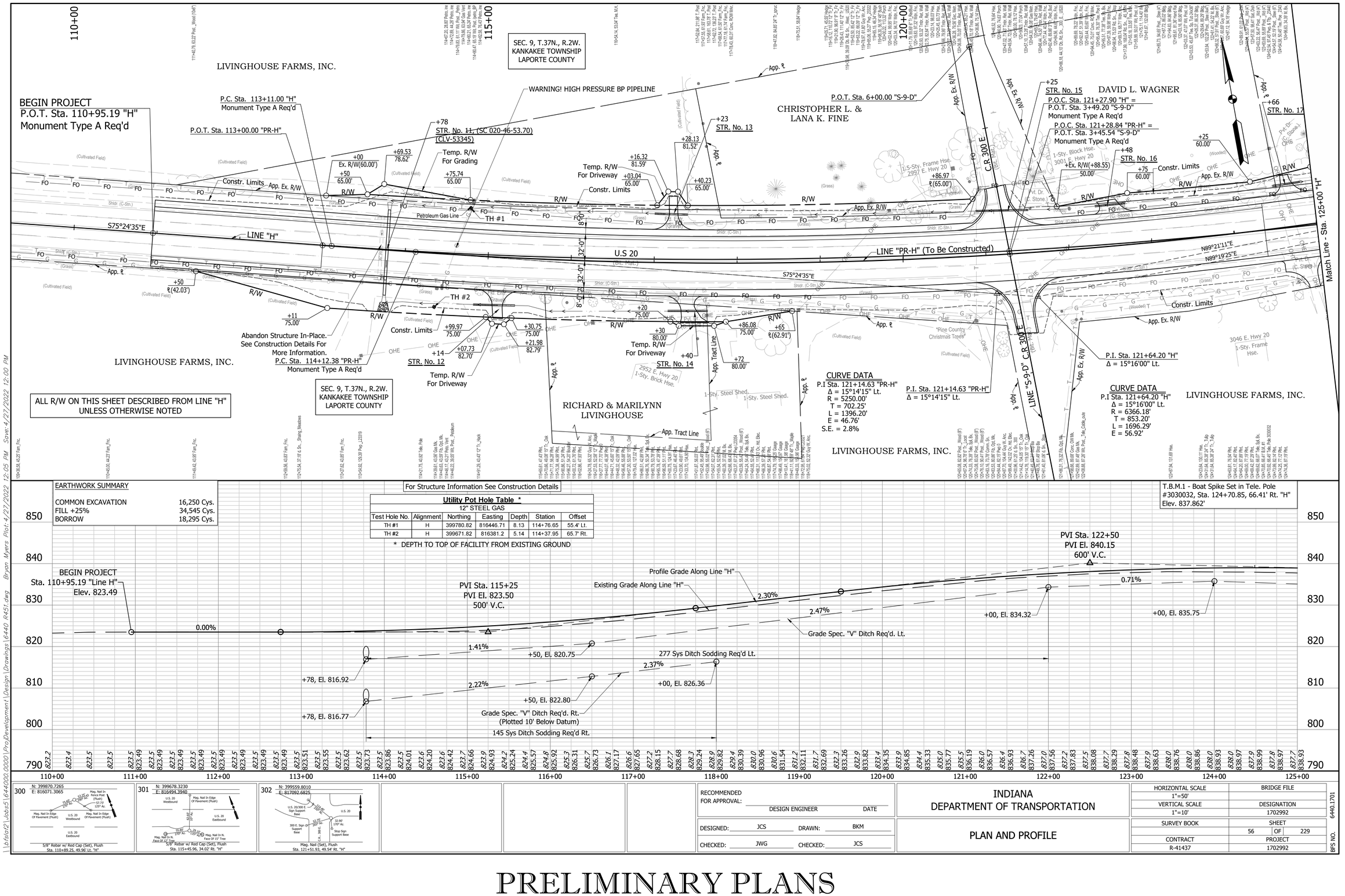
CONSTRUCTION ZONE MOT DESIGN SPEED 45 MPH

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50' / BRIDGE FILE
DESIGNED: CWW	DRAWN: DRM	MAINTENANCE OF TRAFFIC PHASE 5	VERTICAL SCALE N/A / DESIGNATION 1702992
CHECKED: JWG	CHECKED: CWW		SURVEY BOOK / SHEET 55 OF 229
			CONTRACT R-41437 / PROJECT 1702992

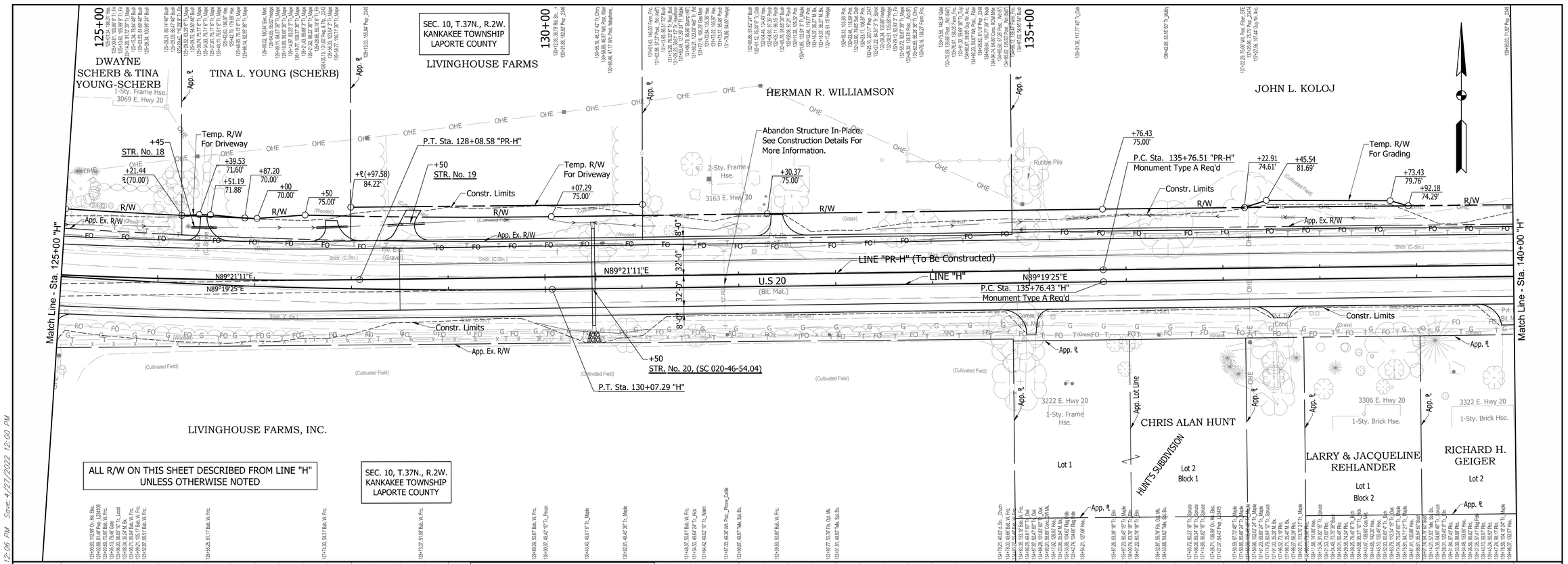
BFS NO. 6440.1701

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PRELIMINARY PLANS



PRELIMINARY PLANS



PRELIMINARY PLANS

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

JOHN L. KOLOJ

REGINA & ADAM KOLOJ

JOSEPH L. HILL TRUST

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

1-Sty. Frame Hse.
3425 E Hwy 20

20' Ingress/Egress Easement

Temp. R/W
For Driveway

CURVE DATA
P.I Sta. 144+24.86 "PR-H"
Δ = 0°22'11" Rt.
R = 263015.86'
T = 848.36'
L = 1696.71'
E = 1.37'

CURVE DATA
P.I Sta. 145+01.53 "H"
Δ = 0°32'00" Rt.
R = 198764.79'
T = 925.10'
L = 1850.19'
E = 2.15'

+64.82
120.80'

+℄(+91.01)
120.82'

+℄(+51.17)
95.00'

P.O.C. Sta. 148+38.51 "PR-H" =
P.O.T. Sta. 3+07.29 "S-1-F"
Monument Type A Req'd

P.O.C. Sta. 148+38.38 "H" =
P.O.T. Sta. 2+95.99 "S-1-F"
Monument Type A Req'd

+75
STR. No. 21
+40.62
74.15'

+25
95.00'

Abandon Structure In-Place.
See Construction Details For
More Information.

+47
STR. No. 22, (SC 020-46-54.48)

P.C.C. Sta. 152+73.22 "PR-H"
Monument Type A Req'd

+00
80.00'

+26.62
80.00'

Constr. Limits

P.I. Sta. 144+24.86 "PR-H"
Δ = 0°22'11" Rt.

P.I. Sta. 145+01.53 "H"
Δ = 0°32'00" Rt.

LINE "PR-H" (To Be Constructed)

LINE "H"

LINE "S-1-F"

App. Ex. R/W

R/W

Constr. Limits

Match Line - Sta. 140+00 "H"

Match Line - Sta. 155+00 "H"

140+00

145+00

150+00

N89°24'49"E
N89°19'25"E

N89°47'00"E
N89°51'25"E

32'-0"

8'-0"

C.R 350 E
(Bit. Mat.)

U.S 20
(Bit. Mat.)

Shldr. (C-Stn.)

Shldr. (CSM)

12" RCP

Ditch

Grass

Gravel

Stone

Concrete

Brick

Wooded

Cultivated Field

Pvt. Dr.
(Bit. Mat.)

"Community Food Pantry"

"Rolling Prairie United Methodist Church"

3376 E. Hwy 20
1-Sty. Frame Comm. Bldg.

3574 E. Hwy 20
1-Sty. Brick Hse.

Brick Garage

1-Sty. Frame Hse.

16' Elec. Distr. Esmt. To
IN-MI Power Co.

Lot 1
Lot 2
Lot 3
Lot 4
Lot 5
Lot 6
Lot 7
Lot 8

Block 2

App. Lot Line

ROLLING PRAIRIE METHODIST CHURCH

HUNT'S SUBDIVISION

PLAT OF PRAIRIE ACRES

DENNIS & MARY WOZNIAK

JASON A. RUNION

CYRIL OAKE

WILLIAM & DEBORA YERGLER

P.C.C. Sta. 154+26.62 "H"
Monument Type A Req'd

+00
℄(50.04')

+25
85.00'

+85
85.00'

ALL R/W ON THIS SHEET DESCIBED FOM LINE "H"
UNLESS OTHEWISE NOTED

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

For Structure Information See Construction Details

T.B.M.2 - Boat Spike Set in Utility Pole
#L234-81, Sta. 144+02.22, 65.40' Lt. "H"
Elev. 838.938'

Existing Grade Along Line "H"

-1.06%
-1.12%
-0.50%
-0.30%
-1.29%

+00, El. 833.12
+00, El. 831.00
+00, El. 828.75
+00, El. 827.75
+00, El. 827.50
+00, El. 827.20
+47, El. 821.44

Grade Spec. "V" Ditch Req'd. Lt.
Grade Spec. "V" Ditch Req'd. Lt.

133 Sys Ditch Sodding Req'd Lt.
300 Sys. Ditch Sodding Req'd. Rt.

850
840
830
820
810
800
790

836.0 836.1 836.2 836.3 836.3 836.3 836.4 836.4 836.4 836.3 836.2 836.2 836.1 836.0 835.8 835.6 835.3 835.1 834.7 834.4 834.1 833.7 833.4 833.1 832.9 832.6 832.3 832.2 832.1 832.0 831.9 831.7 831.6 831.6 831.6 831.5 831.5 831.4 831.3 831.2 831.0 830.9 830.7 830.5 830.3 830.1 829.8 829.6 829.4 829.1 828.9 828.6 828.4 828.2 828.0 827.8 827.6 827.5 827.4

140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00

306
N: 399535.6115
E: 819801.7205
Mag. Nail (Set), Flush
Sta. 148+56.72, 43.75' Rt. "H"

307
N: 399534.3145
E: 820184.2585
Mag. Nail (Set), Flush
Sta 152+39.33, 46.73' Rt. "H"

RECOMMENDED
FOR APPROVAL: _____
DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

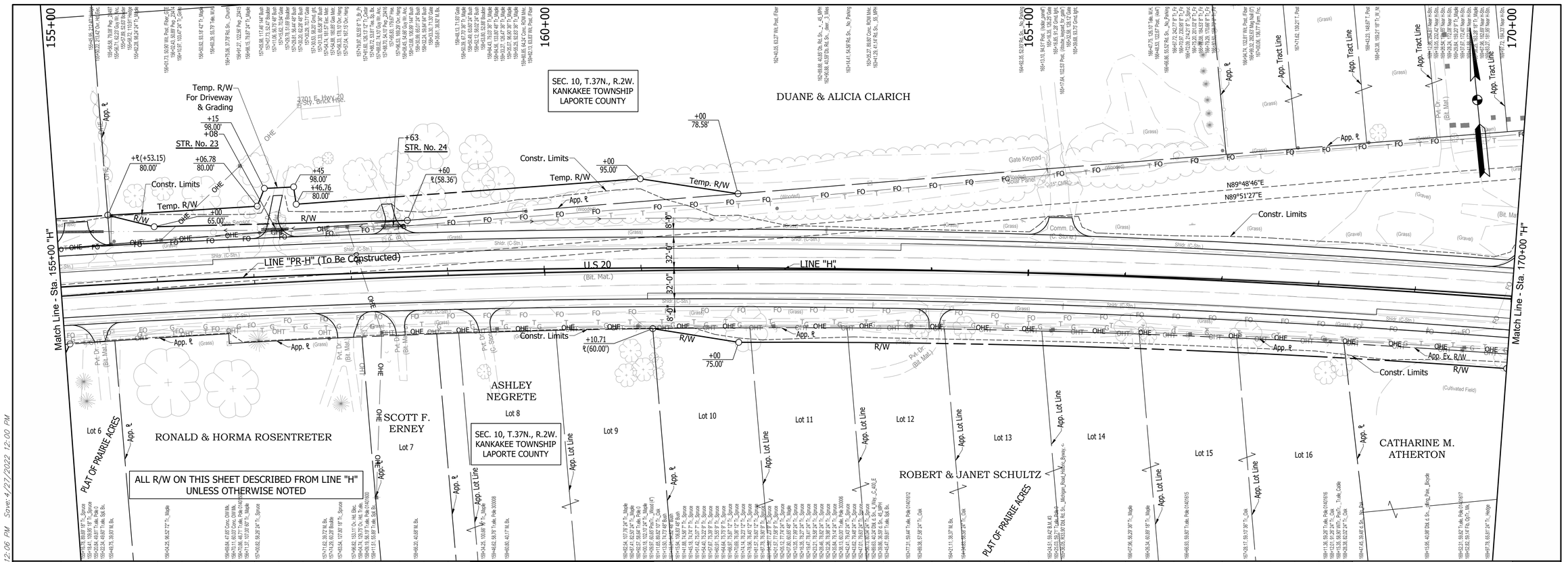
PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	58 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

Plot: 4/27/2022 12:06 PM Save: 4/27/2022 12:00 PM
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308 N: 399538.7795 E: 820753.8530

Mag. Nail (Set), Flush
Sta. 158+10.44, 36.63' Rt. "H"

309 N: 399568.0445 E: 821454.4450

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 165+07.35, 40.80' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	59 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

D:\Flo2\Jobs5\644000 0000\ProDevelopment\Design\Drawings\6440_R451.dwg Bryan Myers Plot: 4/27/2022 12:06 PM Saved: 4/27/2022 12:00 PM

P.I. Sta. 170+62.52 "PR-H"
Δ = 18°33'40" Rt.

P.I. Sta. 171+00.43 "H"
Δ = 18°31'00" Rt.

W. Michigan St. (Bit. Mat.)

N89°51'27"E

S71°37'50"E

"Rolling Prairie Cemetery"

"Rolling Prairie"

1-Sty. Frame Garage.

WILLIAM & MARILEE MCGUIRE

504 W. Michigan St. 1-Sty. Frame Hse.

Generator

P.O.C. Sta. 175+02.98 "H" =
P.O.T. Sta. 2+98.91 "S-1-G"
Monument Type A Req'd

Constr. Limits

App. Ex. R/W

Match Line - Sta. 170+00 "H"

Match Line - Sta. 185+00 "H"

FAMILY EXPRESS CORPORATION

THE TIME LOW CORPORATION

Lot 25

Lot 26

Lot 27

Lot 28

Lot 29

Lot 30

Byron Rd.

Lynn St.

W. Mechanic St. (Bit. Mat.)

213 W. Mechanic St. 1-Sty. Frame Hse.

CHARLES & JULIE DARWIN

DOROTHY & JERRY SCHROEDER

Lot 16

Lot 17

Lot 18

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

P.O.T. Sta. 5+00.00 "S-2-G"

JON & KATHLEEN MILLER

Lot 19

Lot 20

STATE OF INDIANA
W.J. WALKER'S FIRST ADDITION TO PORTLAND

NICKLAS & CHRISTINA SODER

Lot 8

Lot 9

Lot 10

Lot 11

Lot 12

DONALD & JACQUELINE PROSSER

HUNTER PARMLEY

304 W Mechanic St.

STATE OF INDIANA

S Oak St. (Gravel)

STR. No. 26 (SC 020-46-54.91)
Abandon Structure In-Place.
See Construction Details For More Information.

P.O.C. Sta. 177+63.65 "H" =
P.O.T. Sta. 2+48.98 "S-2-G"
Monument Type A Req'd

U.S.20 (Bit. Mat.)

LINE "PR-H" (To Be Constructed)

LINE "S-2-G"

LINE "S-1-G" Byron Rd.

Constr. Limits

App. Ex. R/W

Temp. R/W For Grading

MELANIE YASKO & GAEL ROSENBAUM

STR. No. 25

STR. No. 26A

STEVEN VOGEL

Lot 31

Lot 32

Lot 33

Lot 34

DORIS KRENZKE

408 W. Mechanic St. 2-Sty. Frame Hse.

W.J. WALKER'S FIRST ADDITION TO PORTLAND

Lot 40

Lot 41

JAMES & ANN RIEDSTRA

213 Lynn Ln. 1-Sty. Brick Comm. Bldg.

Lot 22

Lot 23

STATE OF INDIANA

JOHNATHON KUESPERT

JACK STROP & JODY GILCHRIST

SCOTT VANWANZEELE

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

DOUGLAS L. ATHERTON

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

P.O.T. Sta. 0+00.00 "S-2-G"

P.O.C. Sta. 175+04.34 "PR-H" =
P.O.T. Sta. 2+94.69 "S-1-G"
Monument Type A Req'd

P.O.C. Sta. 177+59.20 "PR-H" =
P.O.T. Sta. 2+42.67 "S-2-G"
Monument Type A Req'd

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

For Structure Information See Construction Details

T.B.M. 4 - R.R. Spike Set in Utility Pole, Sta. 174+50.26, 244.18' Lt. "H" Elev. 829.096'

+72.10 50' OS End Treatment, Rt.

87.5' MGS W-Beam Guardrail, 6.25 Spacing, Rt.

Existing Grade Along Line "H"

+42, El. 817.10

+98, El. 817.14

+72, El. 817.36

Grade From Existing Pipes to New Culvert

+57, El. 815.97

+00, El. 821.40

-0.50%

Grade Spec. "V" Ditch Req'd. Rt. (Plotted 10' Below Datum)

+84, El. 820.48

+60, El. 817.92

Grade Spec. "V" Ditch Req'd. Rt. (Plotted 10' Below Datum)

-0.50%

+50, El. 817.47

+57, El. 814.07 (Plotted 10' Below Datum)

850 840 830 820 810 800 790

824.7 824.6 824.5 824.4 824.3 824.2 824.1 824.0 824.0 823.9 823.8 823.7 823.6 823.5 823.4 823.3 823.2 823.1 823.0 822.8 822.7 822.6 822.5 822.4 822.3 822.3 822.2 822.1 822.0 821.9 821.8 821.7 821.6 821.5 821.4 821.3 821.3 821.3 821.4 821.5 821.8 822.1 822.3 822.7 823.1 823.6 824.1 824.5 825.2 825.9 826.6 827.3 828.0 828.9 829.7 830.6 831.4 832.3 833.2 834.1

170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00

CURVE DATA
P.I Sta. 170+62.52 "PR-H"
Δ = 18°33'40" Rt.
R = 10949.88'
T = 1789.30'
L = 3547.25'
E = 145.23'

CURVE DATA
P.I Sta. 171+00.43 "H"
Δ = 18°31'00" Rt.
R = 10268.15'
T = 1673.81'
L = 3318.42'
E = 135.53'

310 N: 399526.3090 E: 822008.5150
Mag N in S. face of power pole #L234.125
Stop sign support base
No parking sign fixpoint base
U.S 20
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 170+59.23, 71.05' Lt. "H"

311 N: 399605.4080 E: 822261.0135
Mag N face of pole L234-86
W. Michigan St.
Mag N in N. face of pole L234-87
Cemetery
Rt.Rock #504 point 3886
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 172+92.00, 191.23' Lt. "H"

312 N: 399551.5505 E: 822474.2795
5/8 Spike in Pipe P/P L235-146
W. Michigan St.
Mag N in W face Pipe pole L235-100
Byron Rd.
Mag. Nail (Set), Flush
Sta. 175+07.71, 178.54' Lt. "H"

313 N: 399225.6870 E: 822458.5205
Stop sign support base
Mag N in E face of tele pole #123450
N 400 E/ Byron Rd.
Stop sign support base
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 175+57.77, 143.82' Rt. "H"

314 N: 399370.6080 E: 822263.4705
Stop sign support base
W. Mechanic St.
Mag N in E face of tele pole #123455
U.S.20
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 178+25.19, 63.66' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	60 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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REDTAIL, LLC

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

EUGENE & ROBERT SMITH

BEGIN PAVING EXCEPTION
P.O.T. Sta. 190+18.37 "H"
Monument Type B Req'd

END PAVING EXCEPTION
P.O.T. Sta. 192+22.99 "H"
Monument Type B Req'd

P.T. Sta. 187+45.05 "H"

P.T. Sta. 188+20.47 "PR-H" (Back)
P.O.T. Sta. 188+20.37 "H" (Ahead)
Monument Type B Req'd

Match Line - Sta. 185+00 "H"

Match Line - Sta. 200+00 "H"

LINE "PR-H" (To Be Constructed)

LINE "H"

U.S 20
(Bit. Mat.)

S71°37'35"E

8'-0"

53'-8"

10'-0"

Conc. Bridge over Norfolk Southern Railway

Constr. Limits

App. Ex. R/W

App. ℄

OHE

(Grass)

(Wooded)

(Conc.)

STATE OF INDIANA

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

Esmt. To AEP Indiana Michigan Transmission Co.

P.C. Sta. 195+09.75 "H"
Monument Type B Req'd

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

Existing Grade Along Line "H"

BEGIN PAVING EXCEPTION
Sta. 190+18.37 "Line H"
Elev. 846.69

END PAVING EXCEPTION
Sta. 192+22.99 "Surface H"
Elev. 846.99

850 840 830 820 810 800 790

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00

315 N: 398959.3970 E: 823821.8785

Mag. Nail (Set), Flush
Sta. 189+54.80, 34.39' Rt. "H"

316 N: 398923.3255 E: 824140.7045

Mag. Nail (Set), Flush
Sta. 192+68.74, 31.8' Lt. "H"

RECOMMENDED FOR APPROVAL:
DESIGN ENGINEER DATE

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

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	61 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

EUGENE & ROBERT SMITH

MICHAEL & JOY VANEK

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

EUGENE & ROBERT SMITH

ROLLING PRAIRIE
BTS RETAIL, LLC

GEORGE & KATHRYN GURROLA

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

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

Prairie St.

U.S 20
(Bit. Mat.)

Match Line - Sta. 200+00 "H"

Match Line - Sta. 215+00 "H"

App. Ex. R/W

App. ℄

P.O.C. Sta. 202+30.01 "H" =
P.O.T. Sta. 3+00.00 "S-3-G"
Monument Type A Req'd

"Storage"
4" Steel HP

Constr. Limits

22'-0"

75'-0"

8'-0"

LINE "H"

N 450 E

LINE "S-3-G"

"M H Realty"

"Barie Welker"

P-Lot
(Bit. Mat.)

"Dollar General"

2502 Pine Grove Bldg
"Dollar General"

S71°37'35"E

N66°22'25"E

CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Lt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

T.B.M.5 - Chisled Square Set on N. side Conc. Light Pole Base, Sta. 204+44.26, 97.06' Rt. "H" Elev. 832.836'

Existing Grade Along Line "H"

+00, El. 828.50

-0.42%

Grade Spec. "V" Ditch Req'd. Lt.

+00, El. 826.00

-2.38%

+50, El. 823.66

Grade Spec. "V" Ditch Req'd. Rt.
(Plotted 10' Below Datum)

317 N: 398595.4365 E: 825083.4210
Mag N in ℄ fence post
U.S 20 E. Bound
N face of billboard support post
66.10'
359° Ac.
N 450 E
Mag. Nail (Set), Flush
Sta. 202+60.49, 56.77' Rt. "H"

318 N: 398693.1545 E: 825574.4600
Mag N in 36" tree
85.80'
103° Ac.
U.S 20 W. Bound
Mag nail in Ep
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 207+45.93, 70.77' Lt. "H"

319 N: 398628.3125 E: 826152.8285
U.S 20 E. Bound
Mag nail in EP
79.70'
105° Ac.
Mag nail in ℄ Tele
bench level
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 213+20.37, 39.33' Rt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

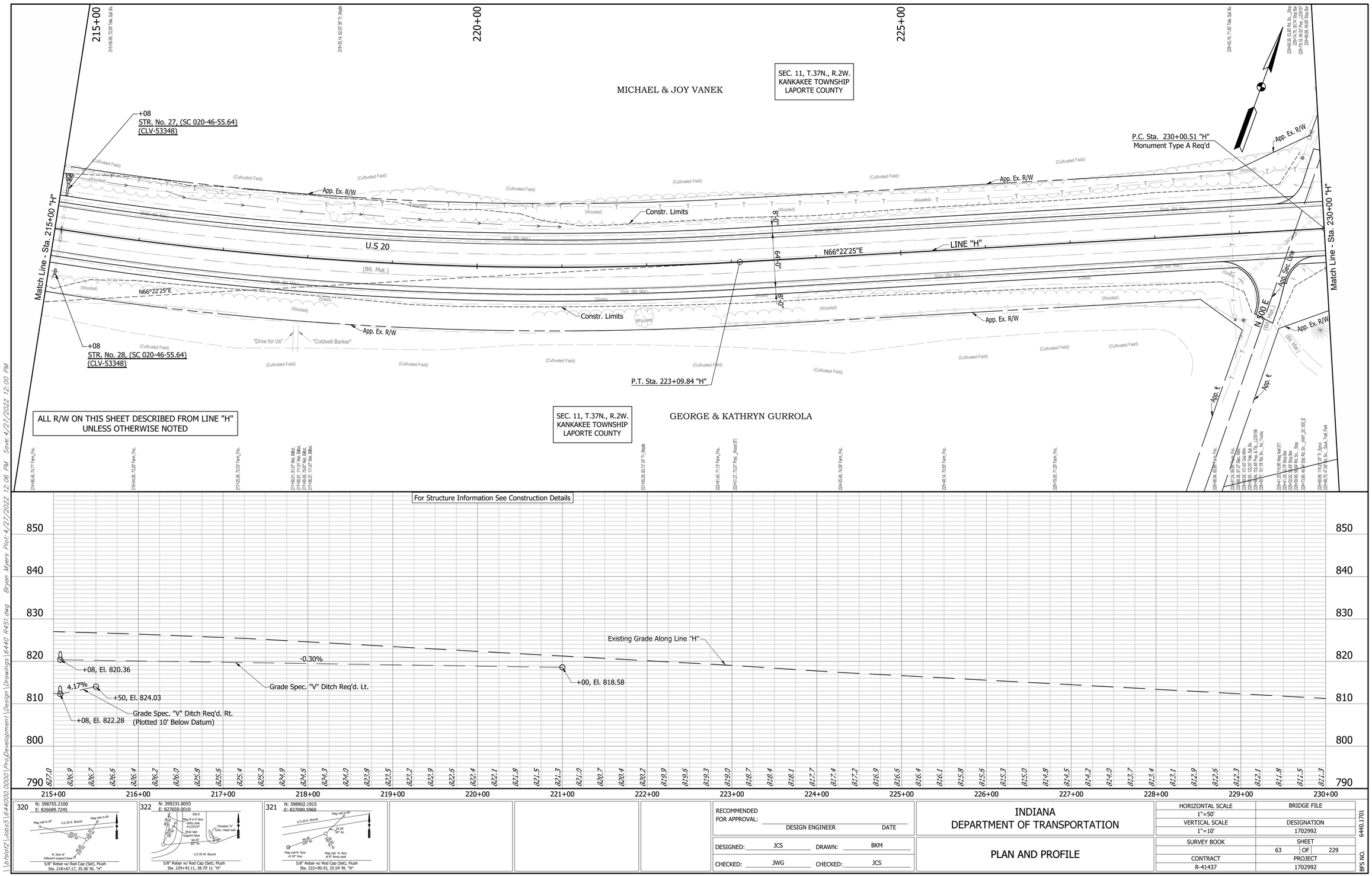
PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	62 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



320 N: 398755.2100 E: 826689.7245
Mag nail in EP
U.S 20 E. Bound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 218+67.17, 35.36' Rt. "H"

322 N: 399231.8055 E: 827659.0010
500 E
Mag N in E face utility pole #1235197
Stop sign support base
99.37° 69° Ac.
Chiseled "X" Conc. Head wall
U.S 20 W. Bound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 229+43.11, 38.70' Lt. "H"

321 N: 398902.1915 E: 827090.5960
Mag nail in EP
U.S 20 E. Bound
35.20° 50° Ac.
Mag nail N. face of 24" tree
Mag nail N. face of 8" fence post
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 222+90.43, 35.54' Rt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

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

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	63 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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GRIMM PROPERTIES, LLC

SEC. 12, T.37N., R.2W.
WILLS TOWNSHIP
LAPORTE COUNTY

CURVE DATA
P.I Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.
R = 6388.00'
T = 500.77'
L = 999.50'
E = 19.60'

JEFFREY & JENNIFER BALTES

CITIZENS BANK OF MICHIGAN CITY, IN

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

P.I. Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.

P.O.T. Sta. 240+00.00 "H"
Monument Type A Req'd

END PROJECT
P.O.C. Sta. 236+22.20 "H"
Monument Type A Req'd

Match Line - Sta. 230+00 "H"

N 500 E

App. Sec Line

App. ℄

App. 1/4 Sec. Line & ℄

App. Ex. R/W

U.S 20
(Bit. Mat.)

N66°22'25"E

N75°20'19"E

Spoil Pile

(Wooded)

(Grass)

Shldr (Bit. Mat.)

For Structure Information See Construction Details

T.B.M.6 - Chiseld "X" Set in E. Conc.
Headwall, NE Cor. U.S. 20 & C.R. 500 E.,
Sta. 230+40.58, 47.67' Lt. "H" Elev. 808.418'

Existing Grade Along Line "H"

+38, El. 806.76

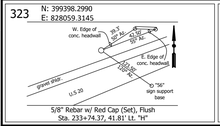
END PROJECT
Sta. 236+22.20 "Surface H"
Elev. 806.20'

850 840 830 820 810 800 790

811.3 810.9 810.6 810.3 810.0 809.7 809.4 809.2 809.0 808.8 808.6 808.0 807.8 807.6 807.4 807.1 806.9 806.6 806.5 806.4 806.3 806.3 806.4 806.5 806.4

230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00

323 N: 399398.2990 E: 828059.3145



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 233+74.37, 41.81' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

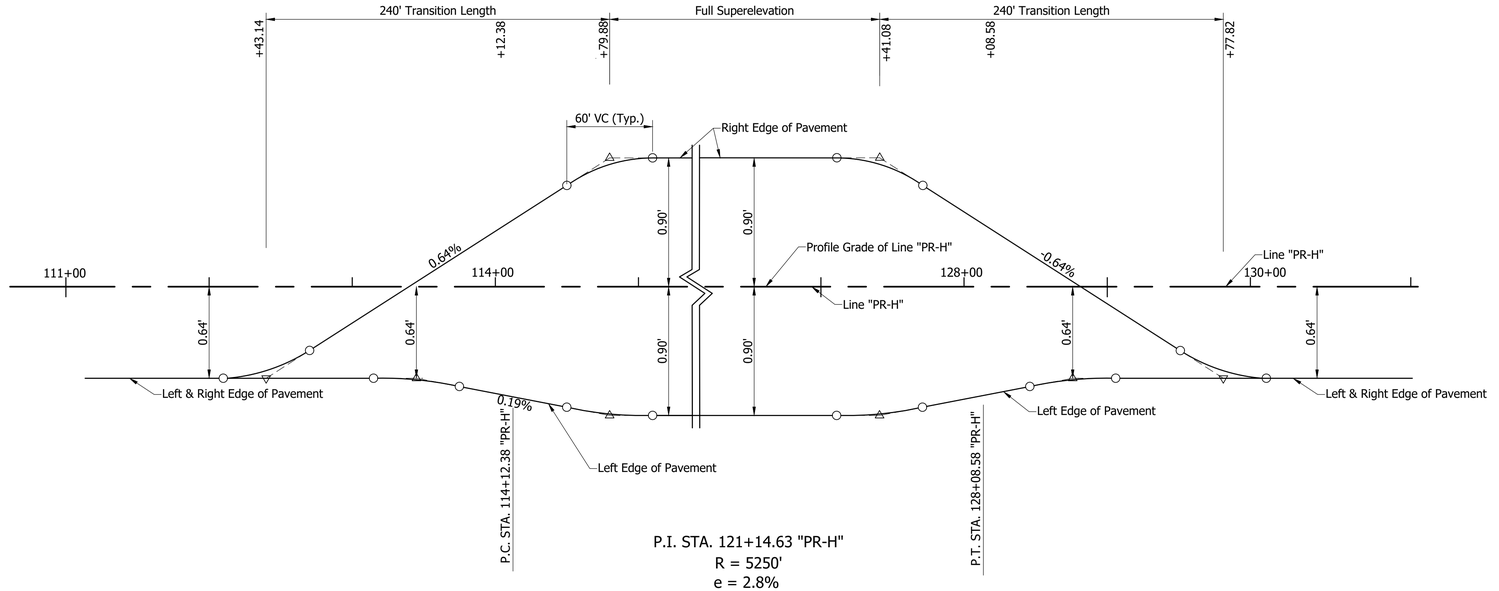
PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	64 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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P.I. STA. 121+14.63 "PR-H"
R = 5250'
e = 2.8%

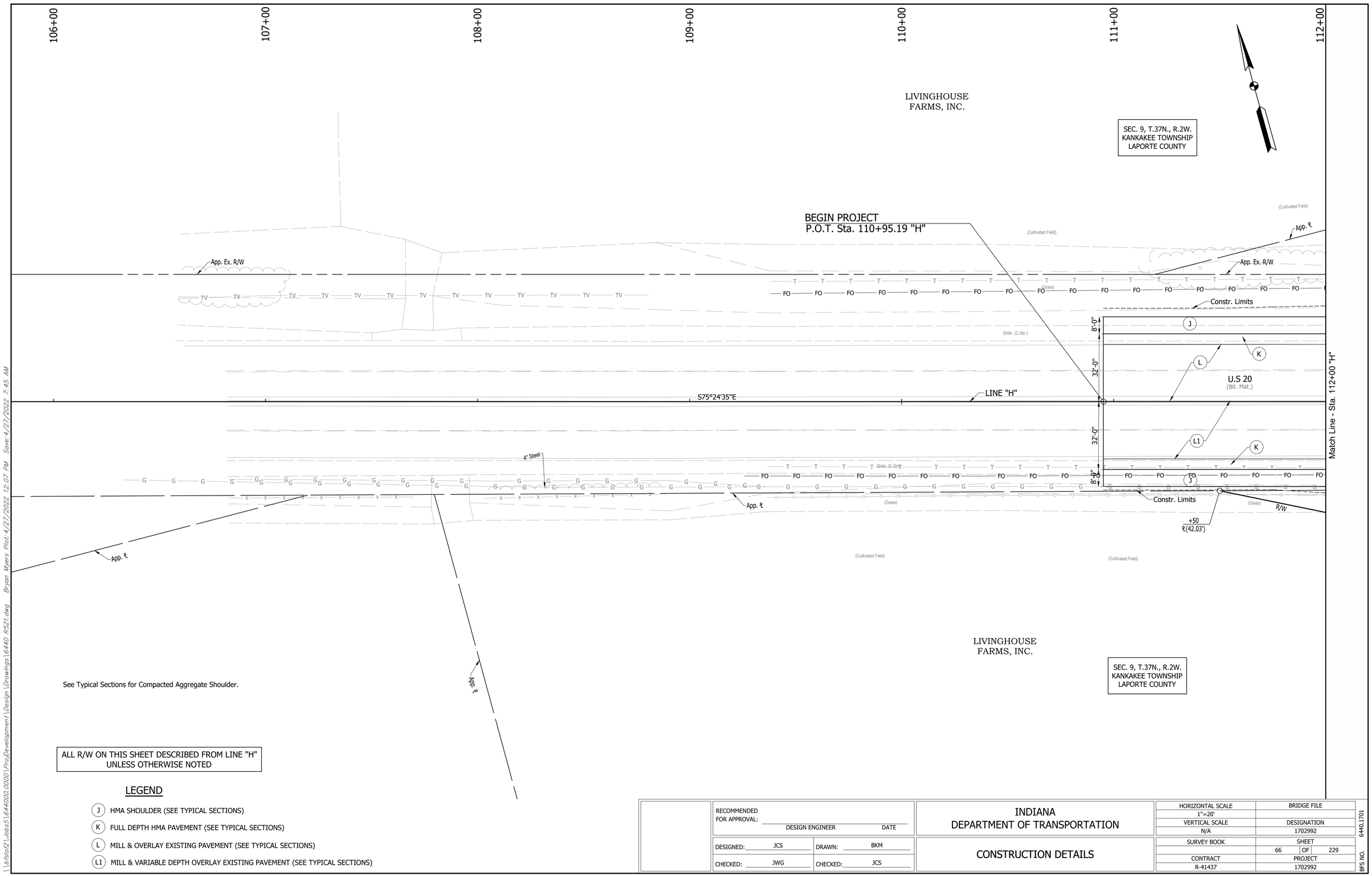
DESIGN SPEED 55 MPH

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	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=10' / BRIDGE FILE:
	DESIGNED: JCS DRAWN: BKM	SUPERELEVATION DIAGRAM	VERTICAL SCALE: 1"=10' / DESIGNATION: 1702992
	CHECKED: JWG CHECKED: JCS		SURVEY BOOK / SHEET: 65 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

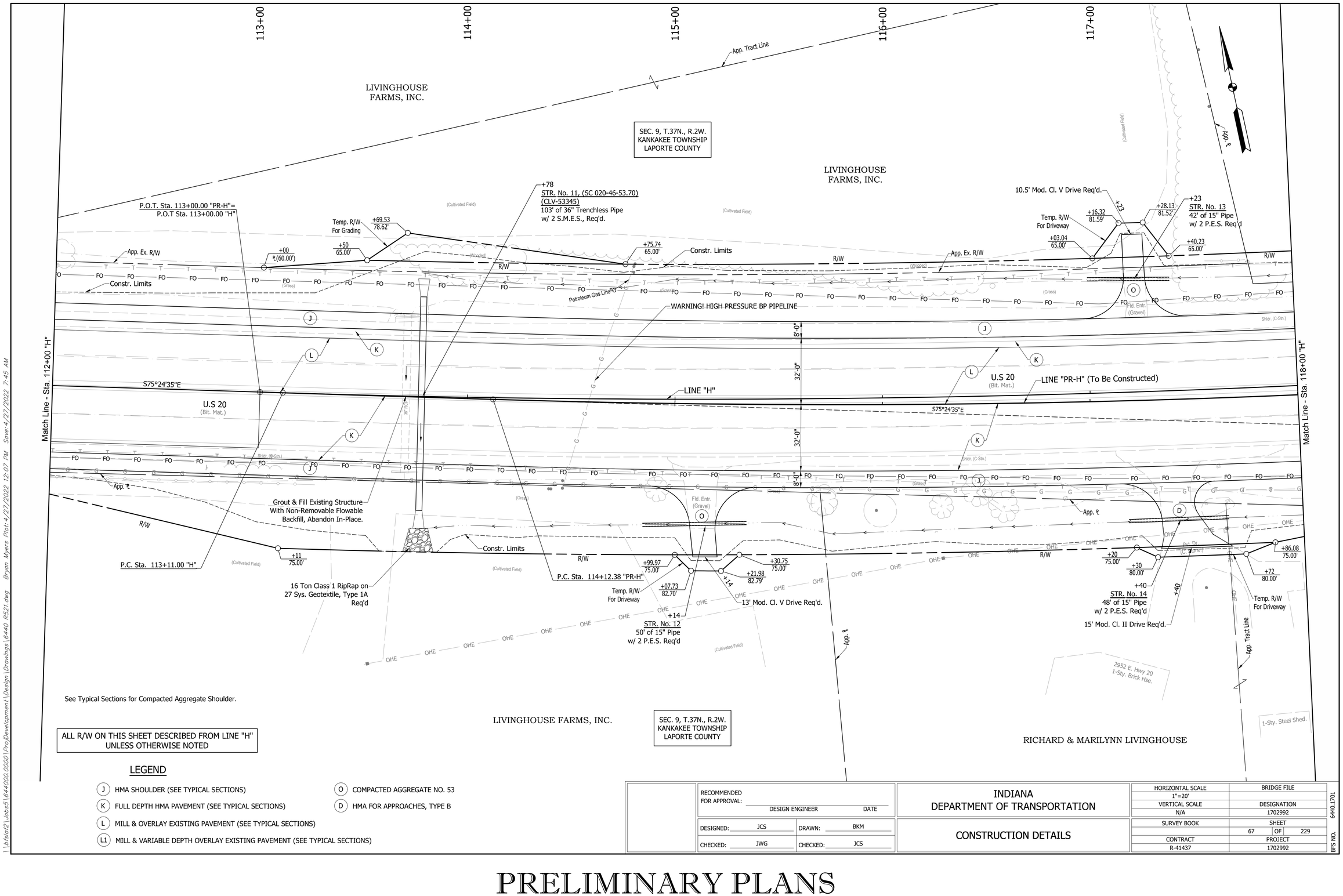
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	66 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

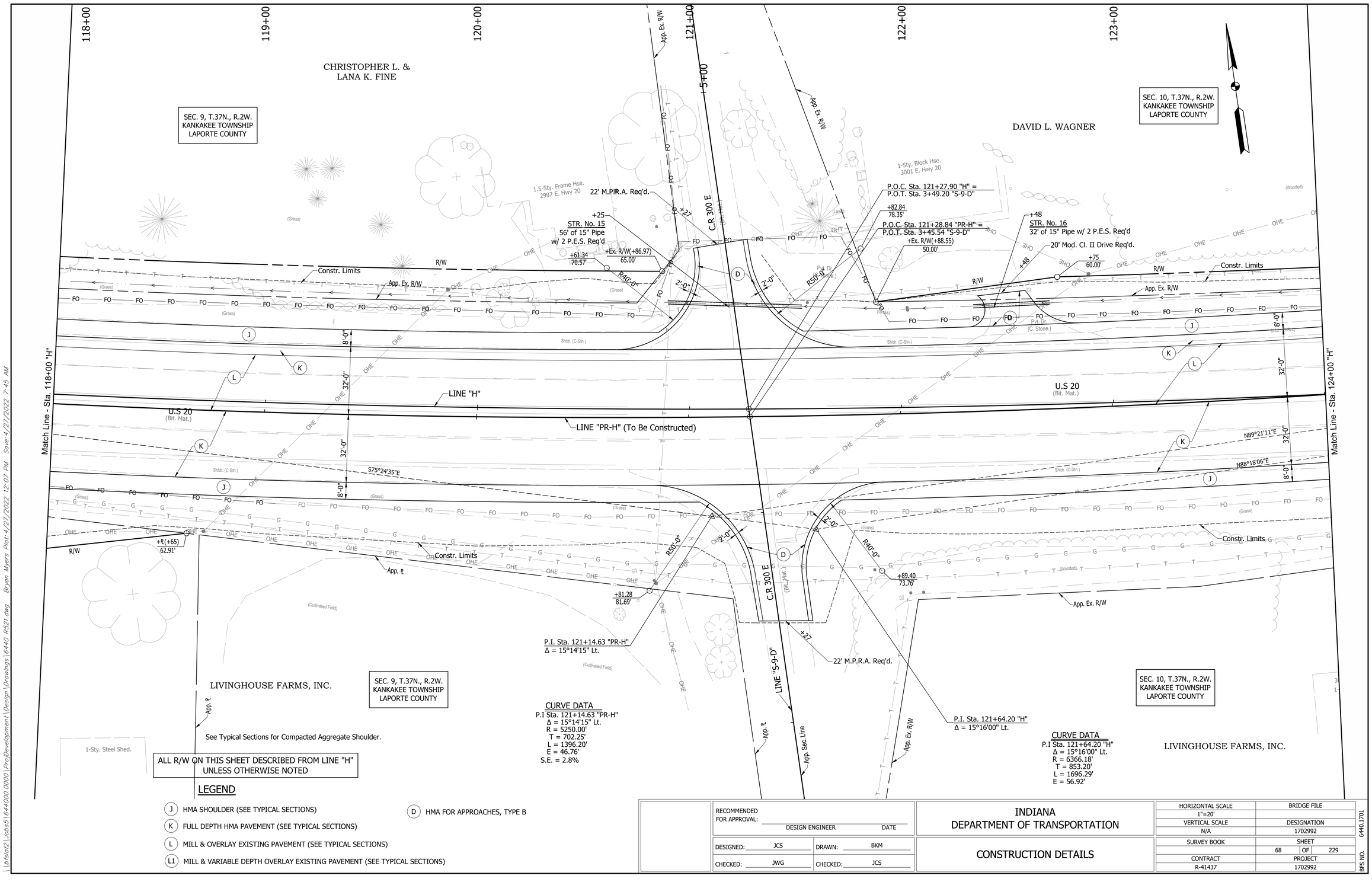
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PRELIMINARY PLANS



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PRELIMINARY PLANS



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=20' / VERTICAL SCALE: N/A / BRIDGE FILE: / DESIGNATION: 1702992
DESIGNED: JCS	DRAWN: BKM	CONSTRUCTION DETAILS	SURVEY BOOK: / SHEET: 68 OF 229
CHECKED: JWG	CHECKED: JCS		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

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124+00 | 125+00 | 126+00 | 127+00 | 128+00 | 129+00

DAVID L. WAGNER

DWAYNE SCHERB & TINA YOUNG-SCHERB

3069 E. Hwy 20

TINA L. YOUNG (SCHERB)

SEC. 10, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

LIVINGHOUSE FARMS

Match Line - Sta. 124+00 "H"

Match Line - Sta. 130+00 "H"

App. ℄

OHE

Pvt. Dr. (C. Stone.)

+66
STR. No. 17
34' of 15" Pipe w/ 2 P.E.S. Req'd

19' Mod. Cl. II Drive Req'd.

+25
60.00'

+00
70.00'

R/W

App. Ex. R/W

+45
STR. No. 18
26' of 15" Pipe w/ 2 P.E.S. Req'd

℄(+21.44)
70.00'

7' Mod. Cl. II Drive Req'd.

+51.19
71.88'

Temp. R/W For Grading

+87.20
70.00'

+00
70.01'

+39.53
71.60'

Constr. Limits

P.T. Sta. 128+08.58 "PR-H"=
O.P.O.T. Sta. 128+08.18 "H", 9.59' Lt.

+78
STR. No. 18A
32' of 15" Pipe w/ 2 P.E.S. Req'd
12' Mod. Cl. V Drive Req'd.

+50
75.00'

(Wooded)

℄(+97.58)
84.22'

+50
STR. No. 19
38' of 15" Pipe
w/ 2 P.E.S. Req'd

14.5' Mod. Cl. V Drive Req'd.

Temp. R/W For Driveway

(Cultivated Field)

(Grass)

Shldr. (C-Stn.)

Fld. Entr. (Gravel)

U.S 20
(Bit. Mat.)

8'-0"

32'-0"

+37, End Pavement Widening

LINE "PR-H" (To Be Constructed)

LINE "H"

N89°21'11"E

N89°19'25"E

+50, End Pavement Widening

13'-7"

+56.50
53.57'

R28'-9"

R20'-0"

+13.55
60.00'

+55.46
82.32'

R89°

(Cultivated Field)

946 E. Hwy 20
Sty. Frame Hse.

See Typical Sections for Compacted Aggregate Shoulder.

LIVINGHOUSE FARMS, INC.

SEC. 10, T.37N., R.2W. KANKAKEE TOWNSHIP LAPORTE COUNTY

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (D) HMA FOR APPROACHES, TYPE B

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS | DRAWN: BKM

CHECKED: JWG | CHECKED: JCS

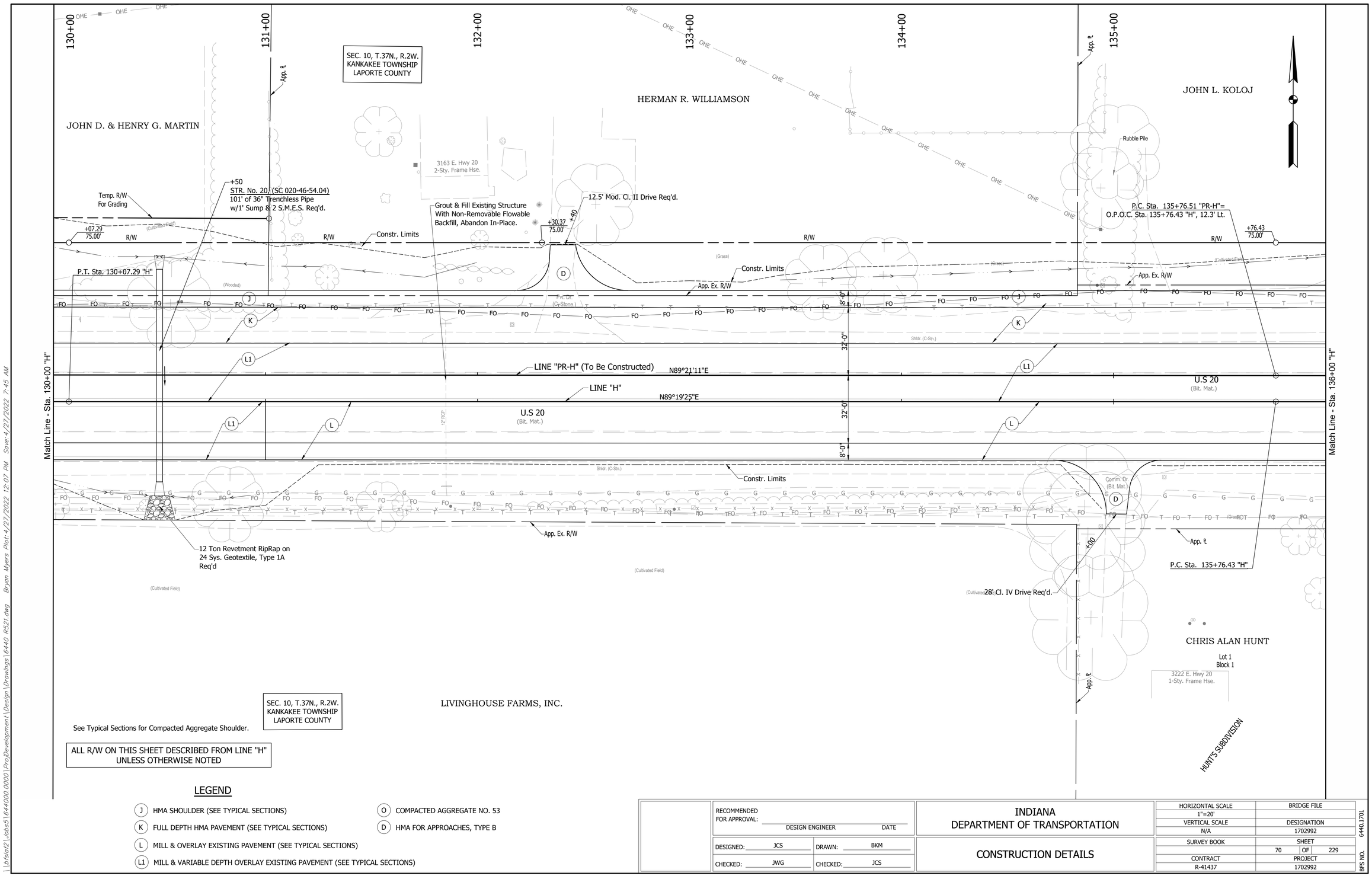
INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	69 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	70 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

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136+00 137+00 138+00 139+00 140+00 141+00

JOHN L. KOLOJ

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

(Cultivated Field)

+45.54
81.69'
+23.15
74.61'
Temp. R/W
For Grading
Constr. Limits
+73.43
79.76'
+92.18
74.29'
R/W
App. Ex. R/W
Guardrail Req'd. See Plan and Profiles for Details
+39.5'
+63.5'

Match Line - Sta. 136+00 "H"

Match Line - Sta. 142+00 "H"

LINE "PR-H" (To Be Constructed)
LINE "H"
U.S 20
(Bit. Mat.)
32'-0"
8'-0"
Shldr. (C-Stn.)
Constr. Limits
Pvt. Dr.
(Bit. Mat.)
(Conc.)
+56
30' Mod. Cl. II Drive Req'd.
+91
38' Cl. II Drive Req'd.
App. ℄
App. Lot Line

CHRIS ALAN HUNT
Lot 2
Block 1
HUNT'S SUBDIVISION

LARRY &
JACQUELINE
REHLANDER
Lot 1
3306 E. Hwy 20
1-Sty. Brick Hse.

RICHARD H. GEIGER
Lot 2
Block 2
3322 E. Hwy 20
1-Sty. Brick Hse.
HUNT'S SUBDIVISION

ROLLING PRAIRIE
METHODIST CHURCH
Lot 3

Lot 4

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (D) HMA FOR APPROACHES, TYPE B

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

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

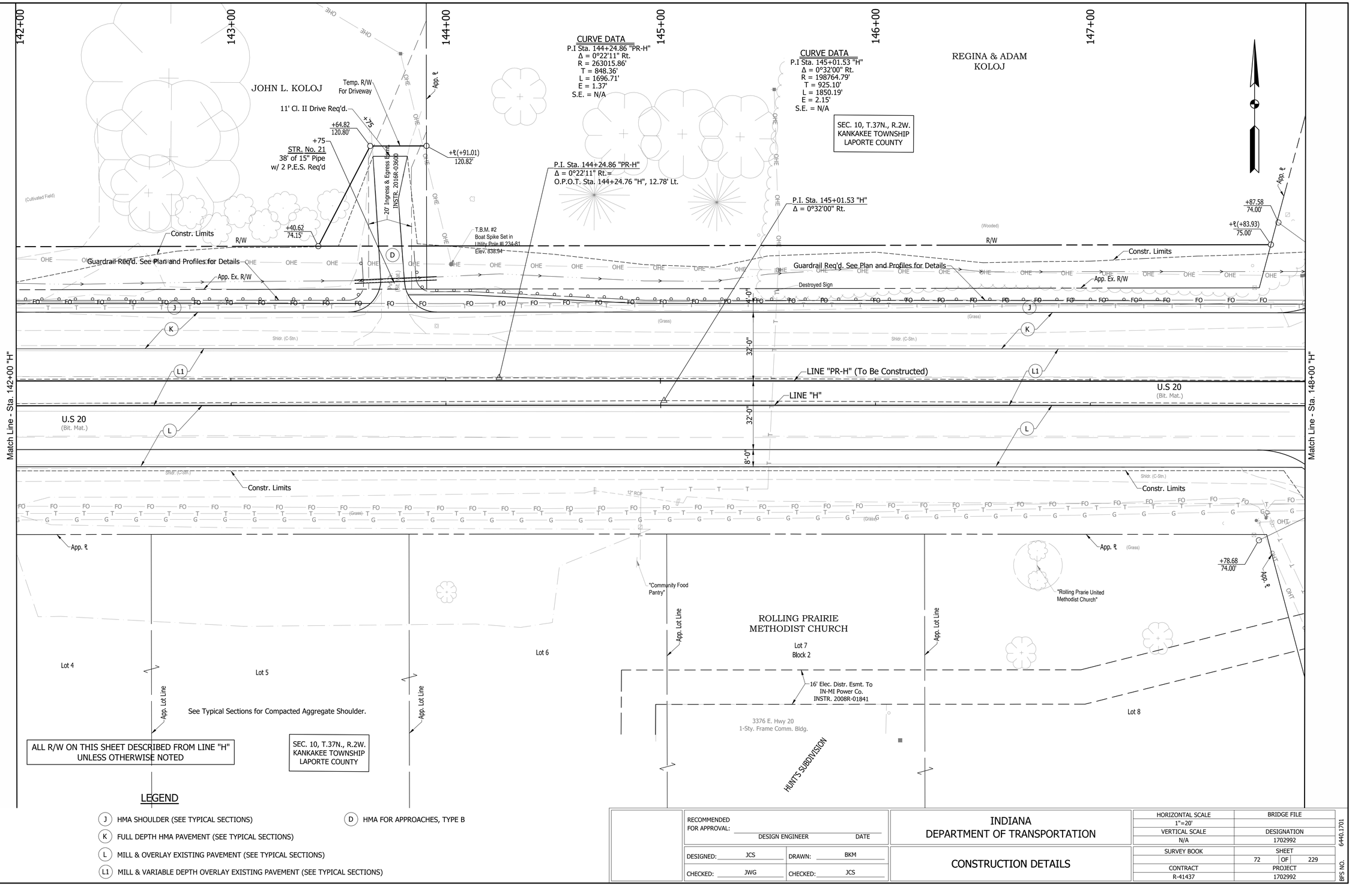
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	71 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=20' / BRIDGE FILE
DESIGNED: JCS	DRAWN: BKM	CONSTRUCTION DETAILS	VERTICAL SCALE N/A / DESIGNATION 1702992
CHECKED: JWG	CHECKED: JCS		SURVEY BOOK / SHEET 72 OF 229
			CONTRACT R-41437 / PROJECT 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

148+00
149+00
150+00
151+00
152+00
153+00
App. ℄
App. Sec. Line
LINE "S-1-F"
C.R 350 E
(Bit. Mat.)
23.5' M.P.R.A. Req'd.
+℄(+51.17)
95.00'
P.O.C. Sta. 148+36.75 "PR-H" =
P.O.T. Sta. 3+07.29 "S-1-F"
+37
+90.70
74.00'
R40'-0"
P.O.C. Sta. 148+38.38 "H" =
P.O.T. Sta. 2+95.99 "S-1-F"
Temp. R/W
For Driveway
Temp. R/W
For Grading
SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY
JOSEPH L. HILL TRUST
R/W
+25
95.00'
Constr. Limits
P.C.C. Sta. 152+73.22 "PR-H"=
O.P.O.T. Sta. 152+73.05 "H", 11.41' Lt.
+00
80.00'
(Cultivated Field)
(Grass)
(Gravel)
OHE
FO
OHT
D
J
K
L
L1
32'-0"
8'-0"
Shldr. (C-Stn.)
LINE "PR-H" (To Be Constructed)
LINE "H"
U.S 20
(Bit. Mat.)
Match Line - Sta. 148+00 "H"
Match Line - Sta. 154+00 "H"
2'-0"
R40'-0"
+92.85
74.00'
+66
28' Cl. II Drive Req'd.
Constr. Limits
4" Steel
+28
35.5' Cl. II Drive Req'd.
Pvt. Dr.
(Bit. Mat.)
Pvt. Dr.
(C. Stone.)
+85
37.5' Mod. Cl. II Drive Req'd.
3574 E. Hwy 20
1-Sty. Frame Hse.
3606 E. Hwy 20
1-Sty. Brick Hse.
Brick Garage
DENNIS & MARY
WOZNIAK
Lot 1
Lot 2
JASON A. RUNION
Lot 3
CYRIL OAKE
Lot 4
WILLIAM & DEBORA
YERGLER
Lot 5
App. Lot Line
PLAT OF PRAIRIE ACRES
SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY
See Typical Sections for Compacted Aggregate Shoulder.
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "H"
UNLESS OTHERWISE NOTED

LEGEND

(J) HMA SHOULDER (SEE TYPICAL SECTIONS)
(K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
(L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
(L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
(D) HMA FOR APPROACHES, TYPE B

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

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

INDIANA
DEPARTMENT OF TRANSPORTATION

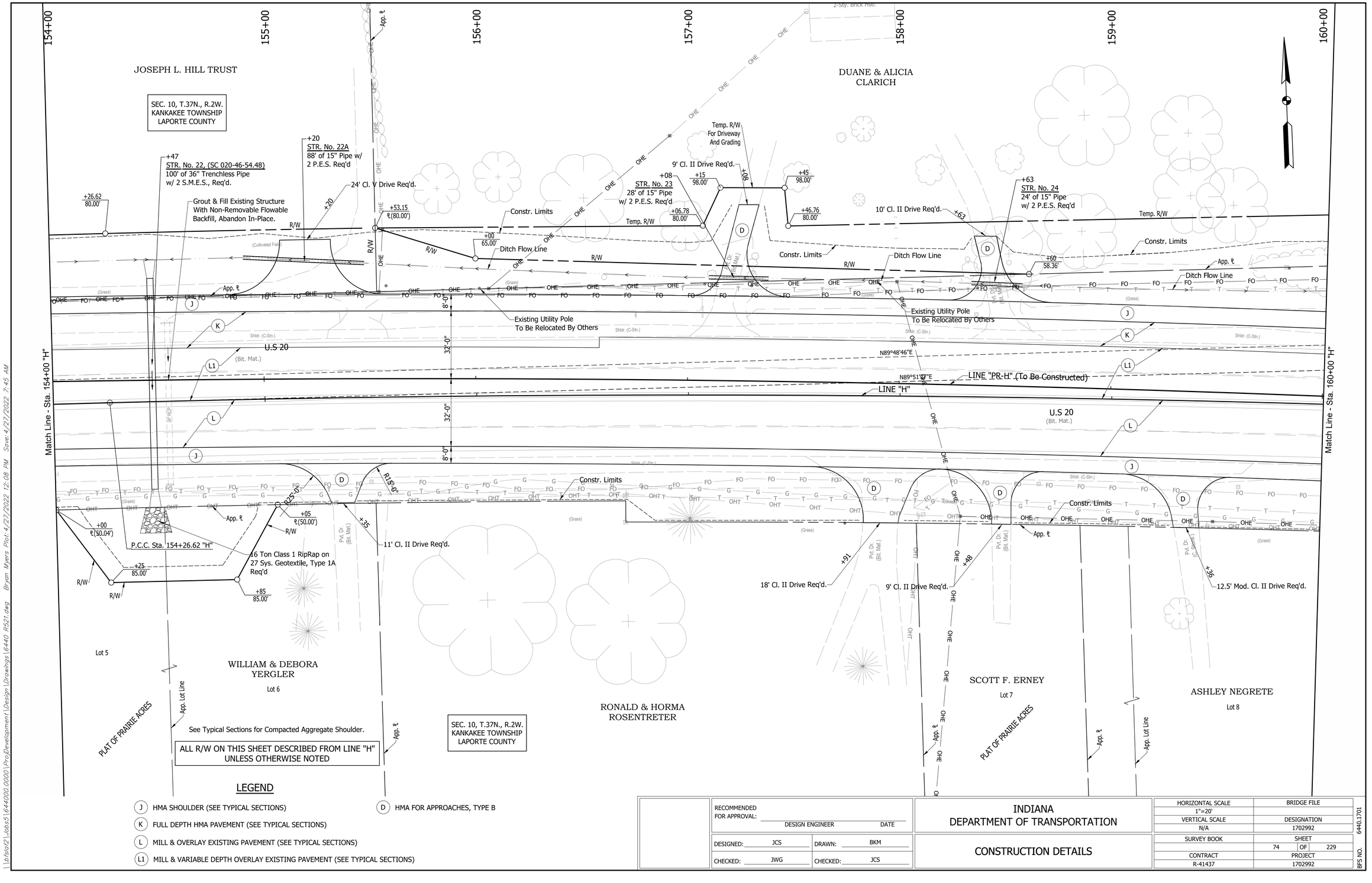
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	73 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

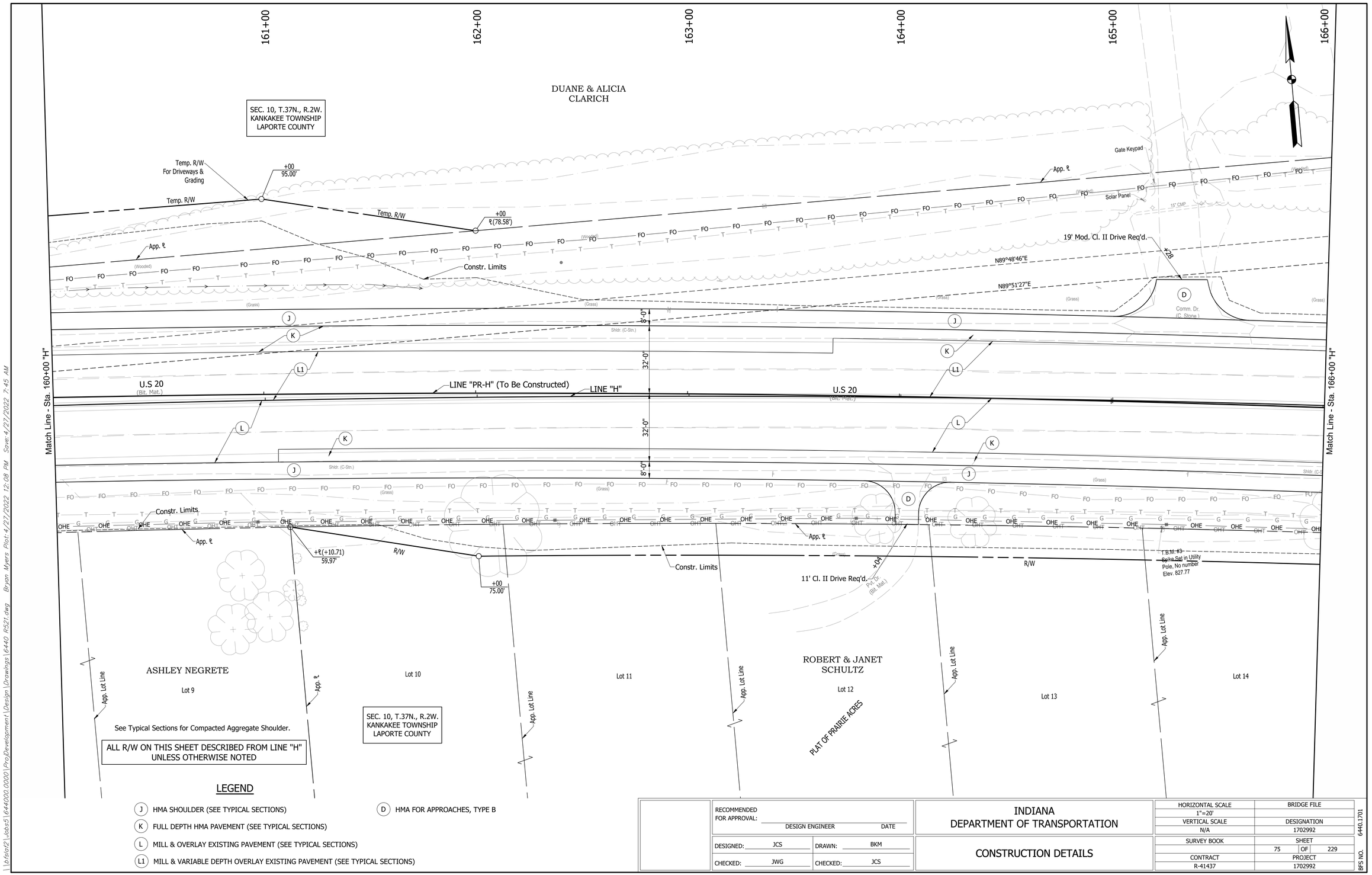
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PRELIMINARY PLANS



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PRELIMINARY PLANS



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

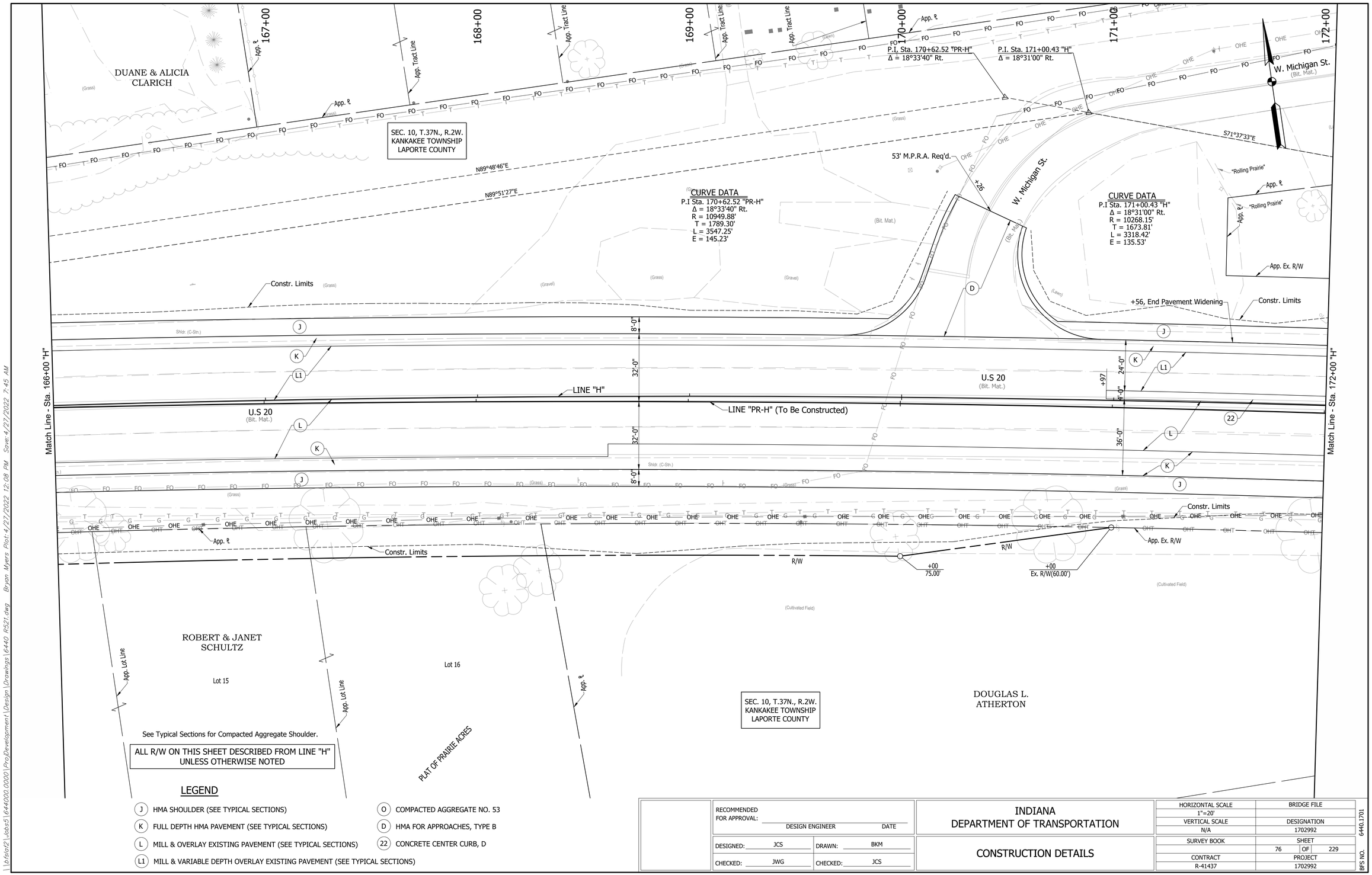
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	75 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (L1) MILL & VARIABLE DEPTH OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (D) HMA FOR APPROACHES, TYPE B
- (22) CONCRETE CENTER CURB, D

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

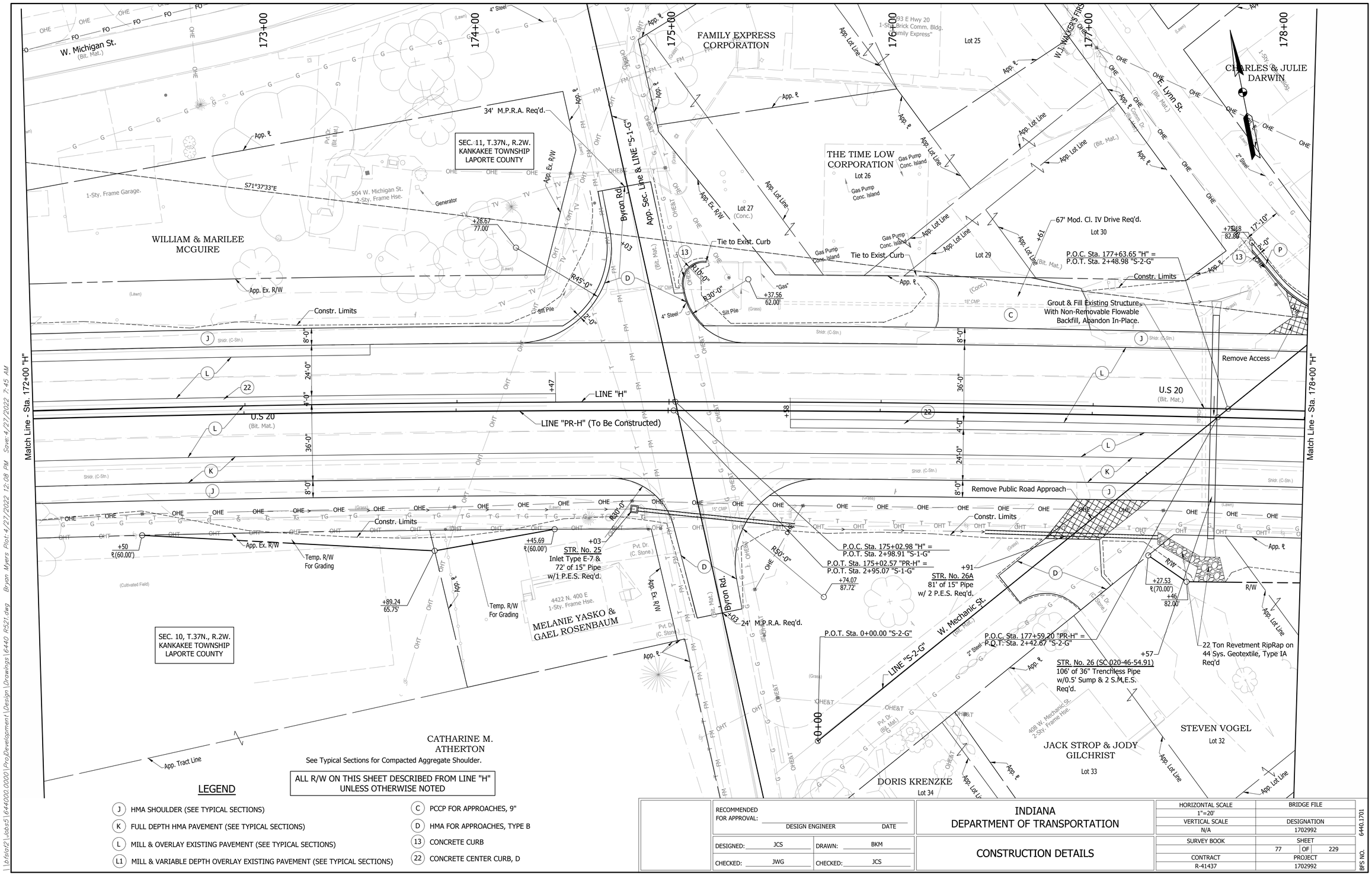
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	76 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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DESIGNED: JCS | DRAWN: BKM

CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

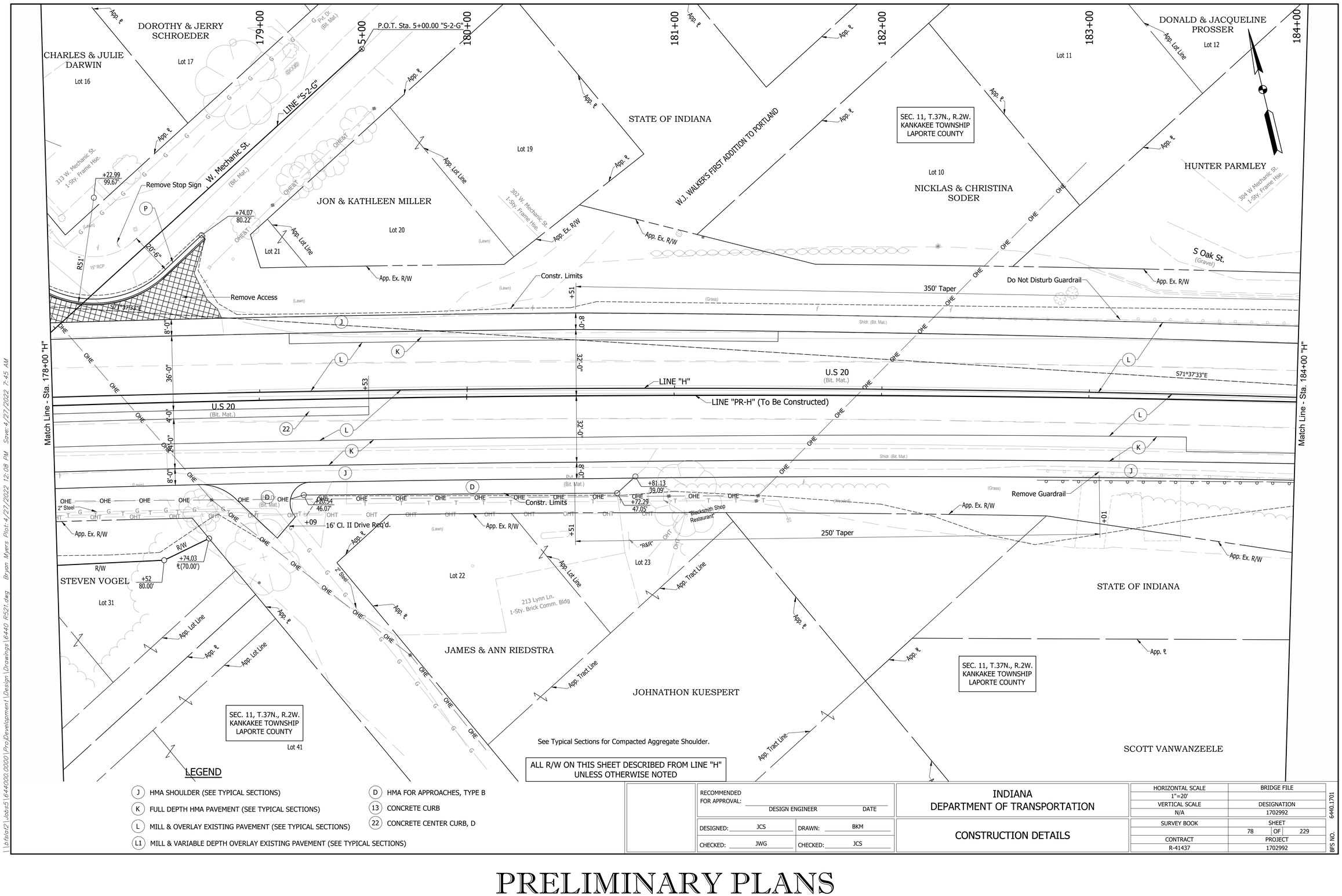
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	77 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

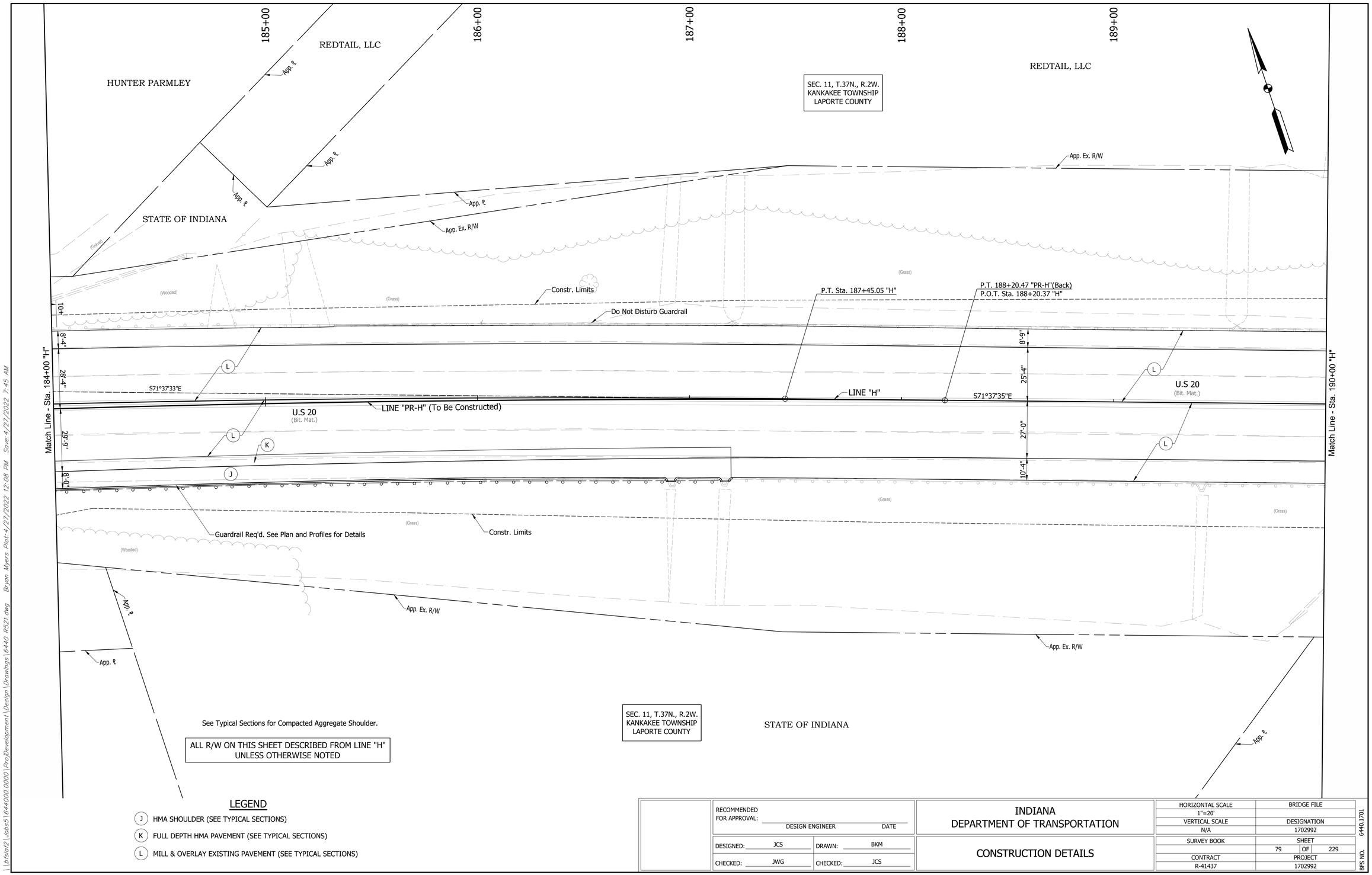
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PRELIMINARY PLANS



PRELIMINARY PLANS

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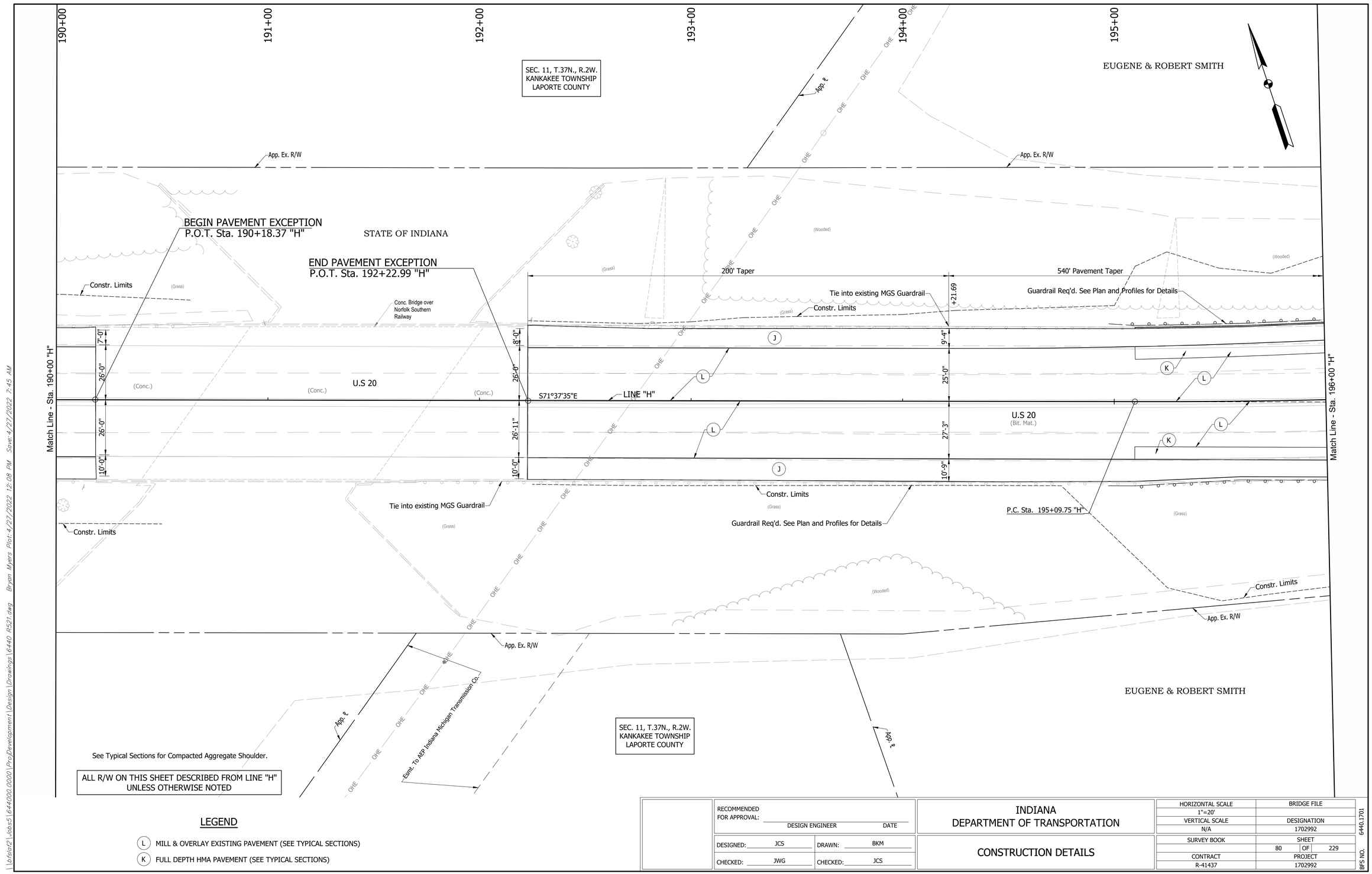


RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1"=20' / BRIDGE FILE:
DESIGNED: JCS	DRAWN: BKM	CONSTRUCTION DETAILS	VERTICAL SCALE: N/A / DESIGNATION: 1702992
CHECKED: JWG	CHECKED: JCS		SURVEY BOOK: / SHEET: 79 OF 229
			CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

(L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)

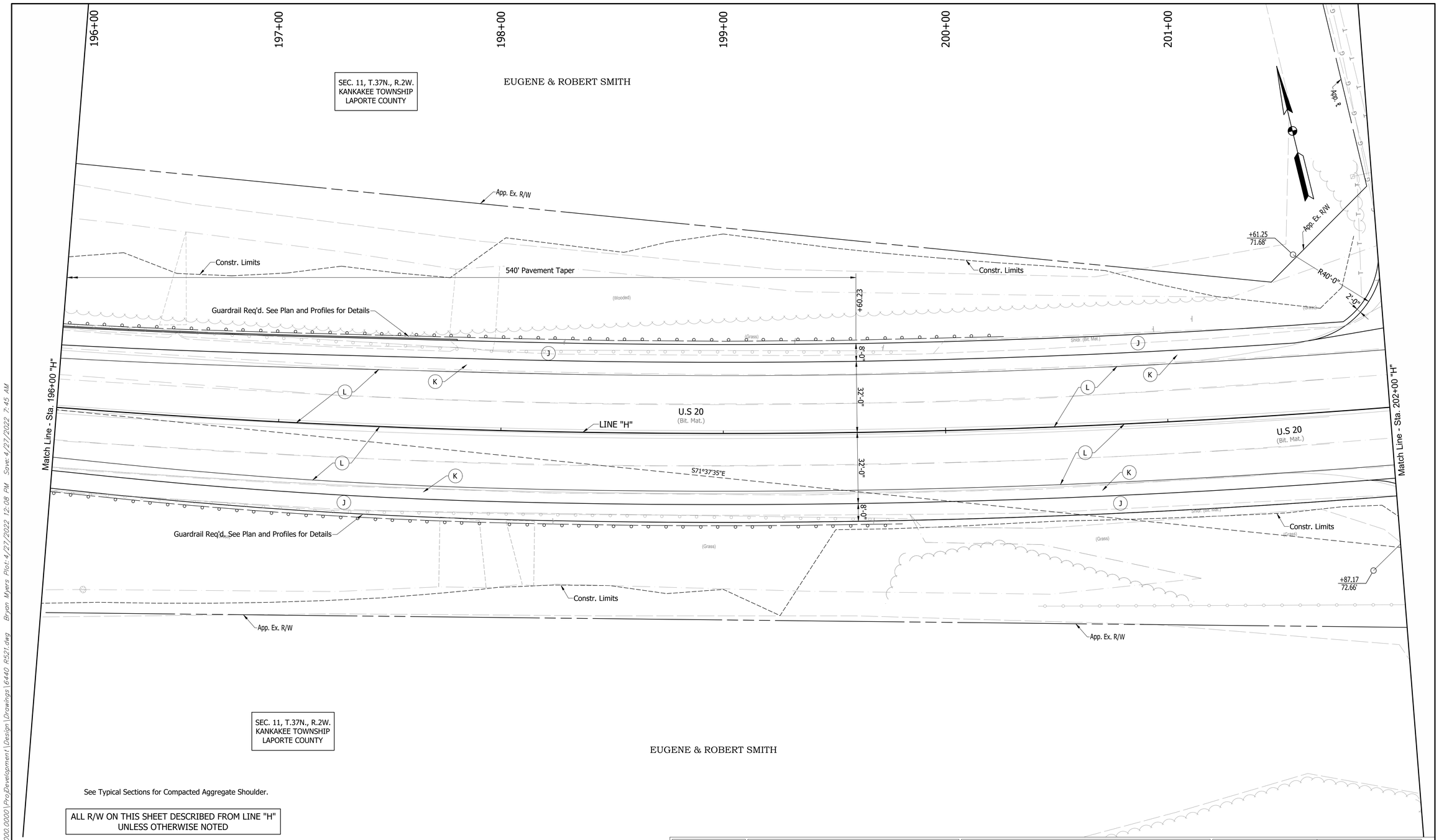
(K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=20'	BRIDGE FILE
		VERTICAL SCALE N/A	DESIGNATION 1702992
DESIGNED: JCS DRAWN: BKM	CONSTRUCTION DETAILS	SURVEY BOOK	SHEET 80 OF 229
CHECKED: JWG CHECKED: JCS		CONTRACT R-41437	PROJECT 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: BKM

CHECKED: JWG | CHECKED: JCS

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	81 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

202+00
203+00
204+00
205+00
206+00
207+00
27' M.P.R.A. Req'd.
LINE "S-3-G"
+30
Prairie St
(Bit. Mat.)
App. Ex. R/W
+75.06
79.60'
P.O.C. Sta. 202+30.01 "H" =
P.O.T. Sta. 3+00.00 "S-3-G"
"Storage"
2'-0"
R40'-0"
4" Steel Hip
D
Constr. Limits
App. Ex. R/W
Constr. Limits
J
K
L
LINE "H"
U.S 20
(Bit. Mat.)
43'-0"
32'-0"
8'-0"
Shldr. (Bit. Mat.)
Match Line - Sta. 202+00 "H"
Match Line - Sta. 208+00 "H"
2'-0"
R40'-0"
2'-0"
R40'-0"
Constr. Limits
+87.98
74.00'
App. Ex. R/W
"MTM Realty"
"Bane Welker"
+30
24' M.P.R.A. Req'd.
App. Ex. R/W
N 450 E
(Bit. Mat.)
P-Lot
(Bit. Mat.)
T.B.M. #5
Chisled Square Set
on N. side (Conc.)
Light Pole Base
Elev. 832.84'
12" WDE
"Dollar General"
App. ℄
App. ℄
App. ℄
S71°37'35"E
(Cultivated Field)
(Wooded)
(Grass)
(Cultivated Field)
(Wooded)
(Grass)
(Cultivated Field)
(Cultivated Field)
(Cultivated Field)
(Cultivated Field)
(Wooded)
(Grass)
(Grass)
(Wooded)
(Cultivated Field)
(Cultivated Field)

MICHAEL & JOY VANEK

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

ROLLING PRAIRIE
BTS RETAIL, LLC

GEORGE & KATHRYN
GURROLA

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Lt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

J HMA SHOULDER (SEE TYPICAL SECTIONS)
K FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
L MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
D HMA FOR APPROACHES, TYPE B

RECOMMENDED
FOR APPROVAL: _____
DESIGN ENGINEER DATE

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

INDIANA
DEPARTMENT OF TRANSPORTATION

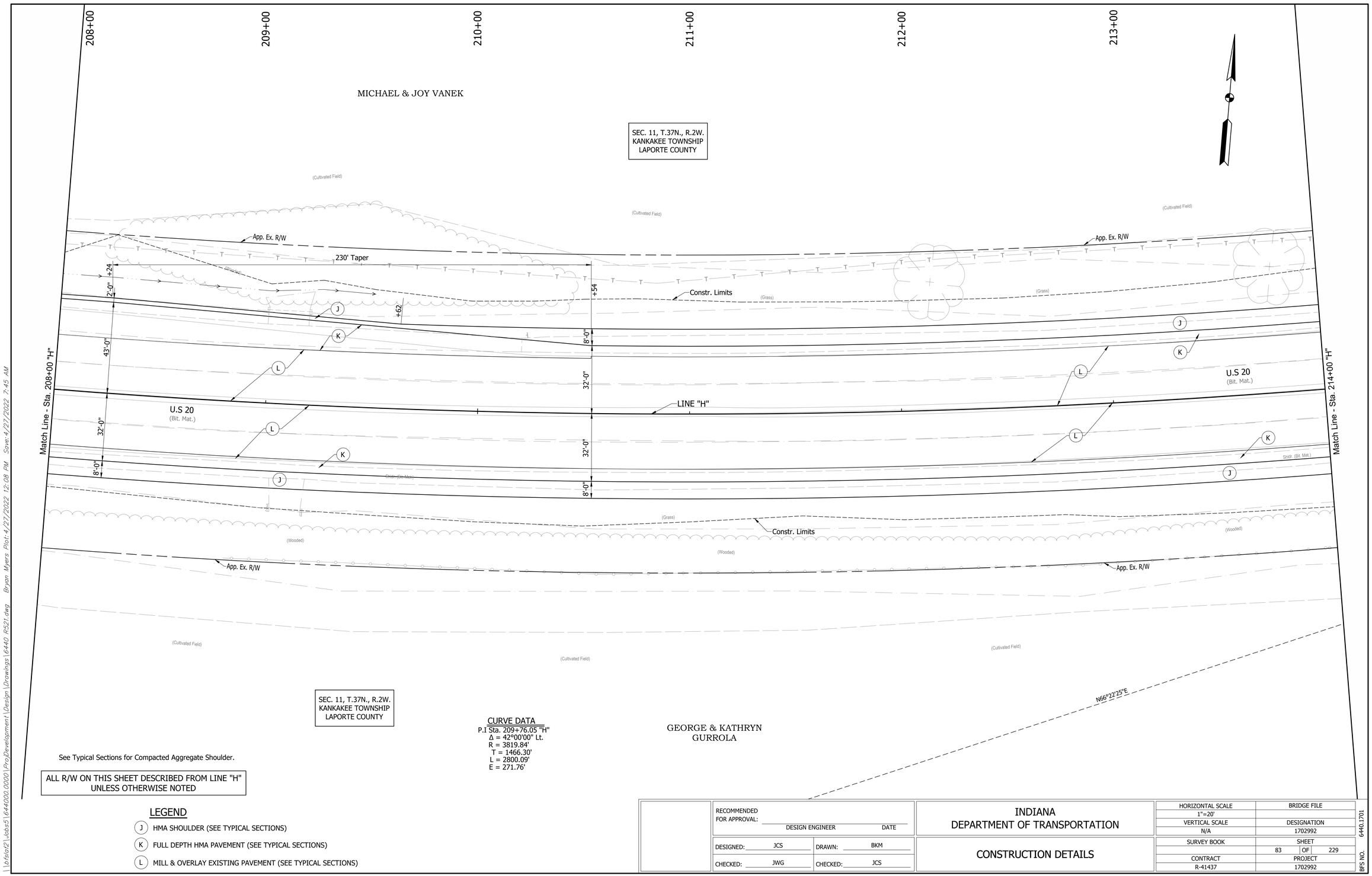
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	82 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

CURVE DATA
P.I Sta. 209+76.05 "H"
Δ = 42°00'00" Lt.
R = 3819.84'
T = 1466.30'
L = 2800.09'
E = 271.76'

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	83 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

\\bfsfs2\Jobs5\644000.0000\ProDevelopment\Design\Drawings\6440_R521.dwg Bryan Myers Plot: 4/27/2022 12:08 PM Saved: 4/27/2022 7:45 AM

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214+00 215+00 216+00 217+00 218+00 219+00

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

MICHAEL & JOY VANEK

8 Ton Class 1 RipRap on
16 Sys. Geotextile, Type IA
Req'd

App. Ex. R/W

+08
STR. No. 27, (SC 020-46-55.64)
(CLV-53348)
15' of 24" VCP w/1 P.E.S.
Req'd.

Constr. Limits

(Cultivated Field)

(Wooded)

Match Line - Sta. 214+00 "H"

Match Line - Sta. 220+00 "H"

U.S 20
(Bit. Mat.)

LINE "H"

8'-0"
32'-0"
32'-0"
8'-0"

J K L

(Grass)

N66°22'25"E

+08
STR. No. 28, (SC 020-46-55.64)
(CLV-53348)
7' of 24" VCP w/1 P.E.S.
Req'd.

"Coldwell Banker"

"Drive for Us"

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

GEORGE & KATHRYN
GURROLA

See Typical Sections for Compacted Aggregate Shoulder.

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

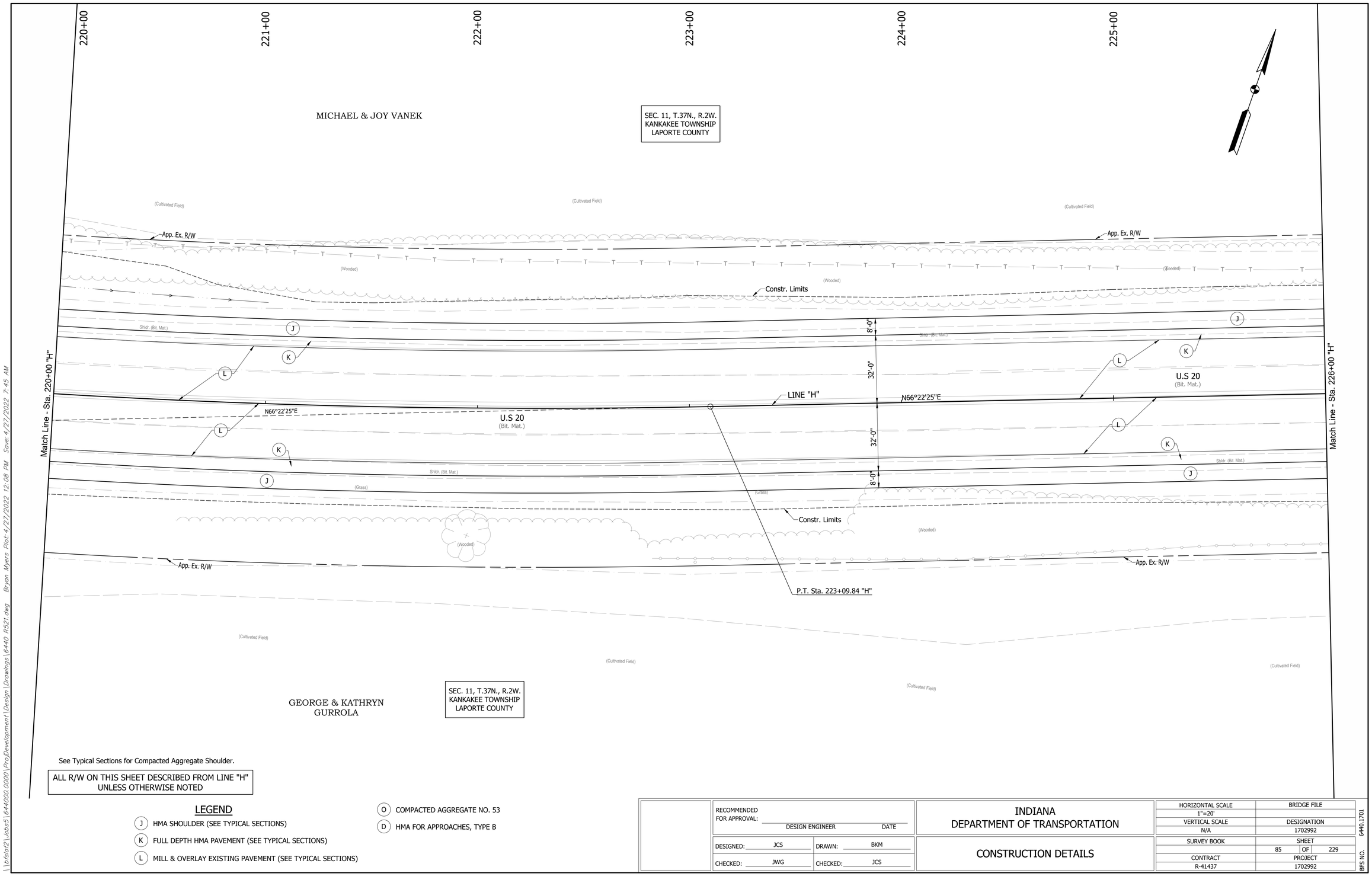
LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=20' / BRIDGE FILE
DESIGNED: JCS	DRAWN: BKM		VERTICAL SCALE N/A / DESIGNATION 1702992
CHECKED: JWG	CHECKED: JCS	CONSTRUCTION DETAILS	SURVEY BOOK / SHEET 84 OF 229
			CONTRACT R-41437 / PROJECT 1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (O) COMPACTED AGGREGATE NO. 53
- (D) HMA FOR APPROACHES, TYPE B

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	85 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

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226+00 | 227+00 | 228+00 | 229+00 | 230+00 | 231+00 | 232+00

Match Line - Sta. 226+00 "H"

Match Line - Sta. 232+00 "H"

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

MICHAEL & JOY VANEK

SEC. 12, T.37N., R.2W.
WILLS TOWNSHIP
LAPORTE COUNTY

GRIMM PROPERTIES, LLC

Spoil Pile

23' M.P.R.A. Req'd.

App. Ex. R/W

App. ℄

OHE

(Cultivated Field)

(Wooded)

+42.22
74.00'

R40'-0"

+67

+48.38
76.49'

15 Ton Class 1 RipRap on
20 Sys. Geotextile, Type IA
Req'd

P.C. Sta. 230+00.51 "H"

R47'-10"

Constr. Limits

T.B.M. #6
Chiseld "X" Set in E.
Conc. Headwall, NE Cor.
U.S. 20 & C.R. 500 E.
Elev. 808.42

8'-0"

32'-0"

Shldr. (Bit. Mat.)

J

K

L

D

N66°22'25"E

LINE "H"

U.S 20
(Bit. Mat.)

+25

29'-7"

26

Existing Pipe to Remain in Place

+50, End Pavement Widening

27'-11"

(Grass)

Constr. Limits

R45'-0"

2'-0"

App. Sec. Line

N 500 E
(Bit. Mat.)

+72.20
79.00'

+87.93
73.88'

R40'-0"

2'-0"

+67

22.5' M.P.R.A. Req'd.

label

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

GEORGE & KATHRYN
GURROLA

SEC. 12, T.37N., R.2W.
WILLS TOWNSHIP
LAPORTE COUNTY

CITIZENS BANK OF
MICHIGAN CITY, IN

See Typical Sections for Compacted Aggregate Shoulder.

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

LEGEND

- (J) HMA SHOULDER (SEE TYPICAL SECTIONS)
- (K) FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTIONS)
- (L) MILL & OVERLAY EXISTING PAVEMENT (SEE TYPICAL SECTIONS)
- (D) HMA FOR APPROACHES, TYPE B
- (26) SODDING

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS | DRAWN: BKM

CHECKED: JWG | CHECKED: JCS

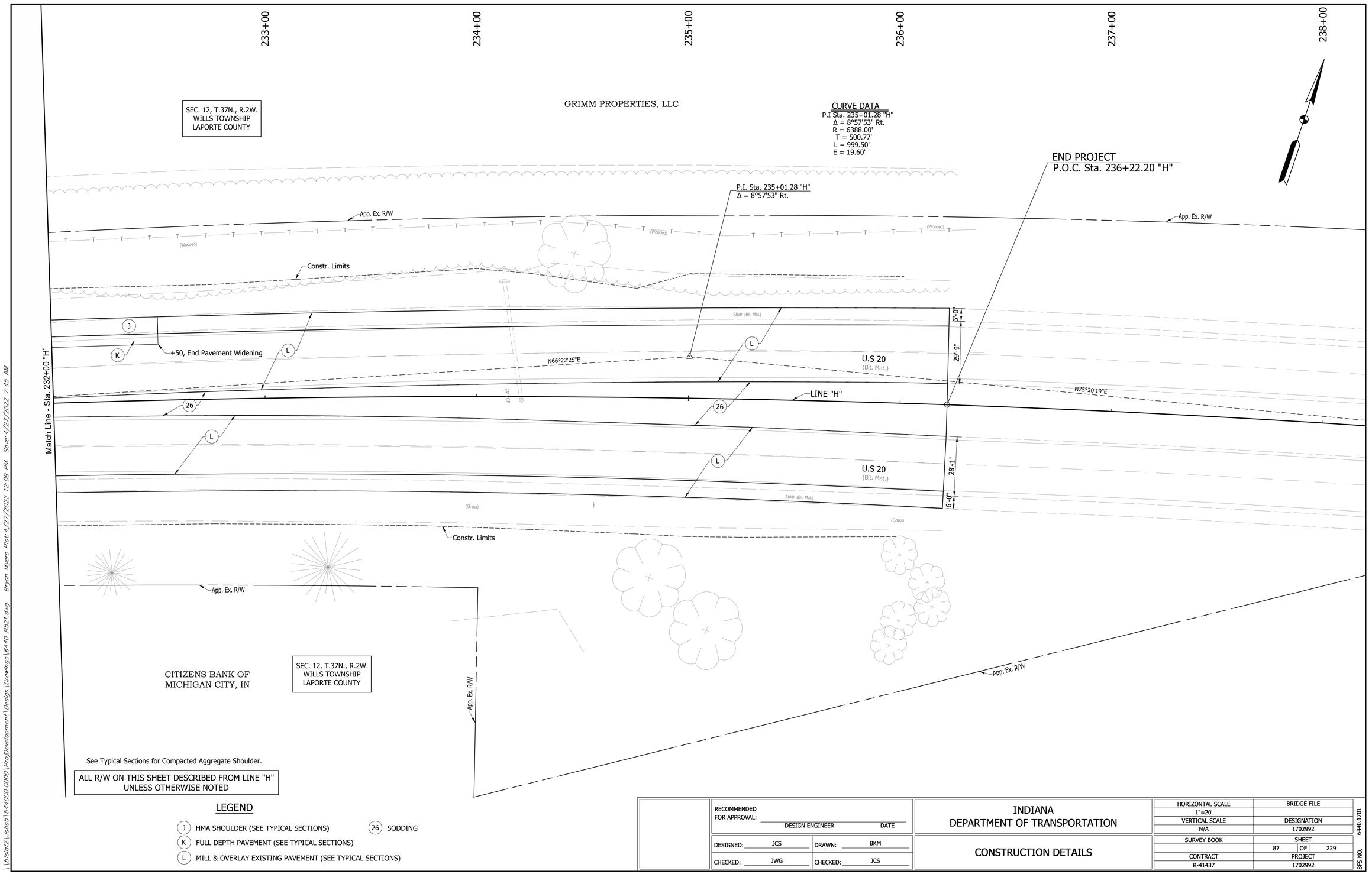
INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	86 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: BKM

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

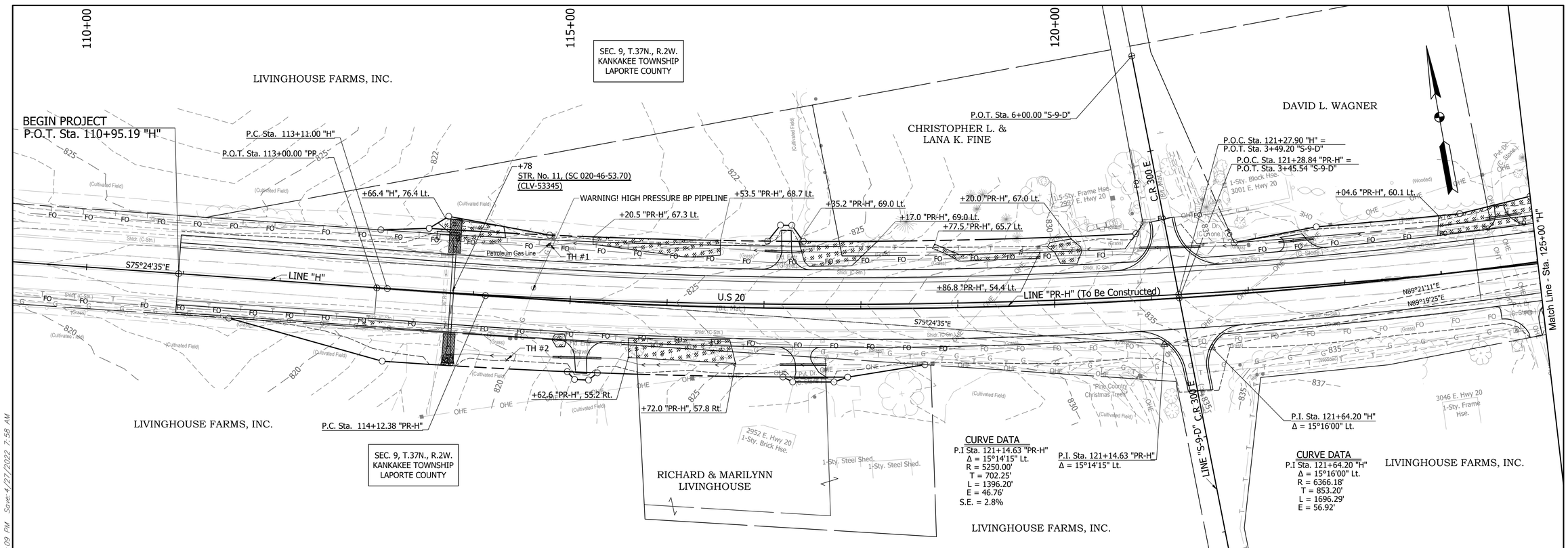
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1"=20'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	87 OF 229
CONTRACT	PROJECT
R-41437	1702992

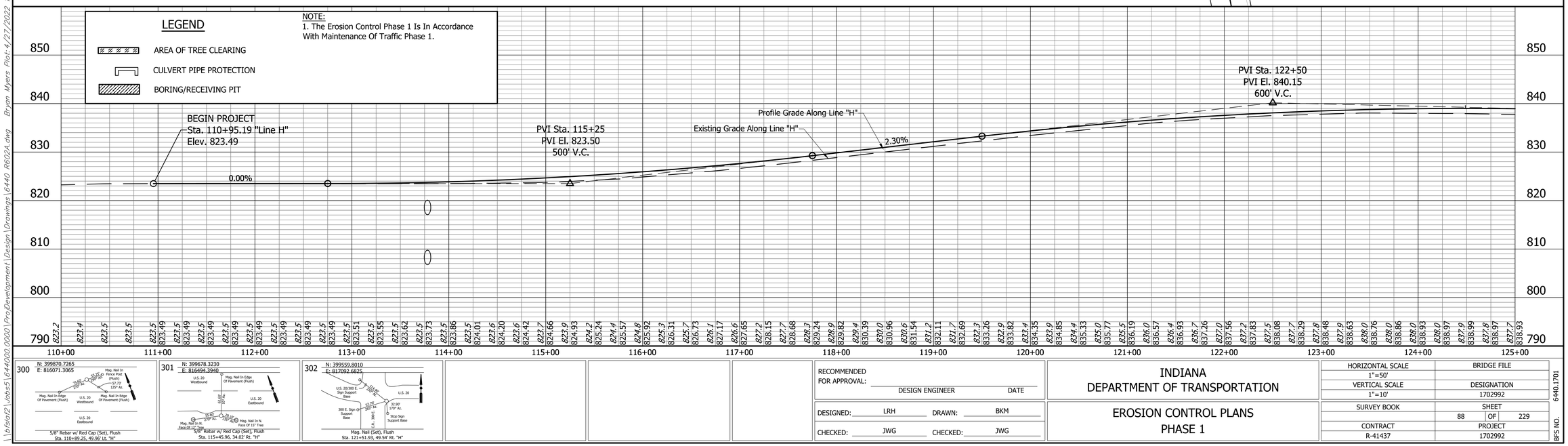
BFS NO. 6440.1701

PRELIMINARY PLANS

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Layer State Set For Color





RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

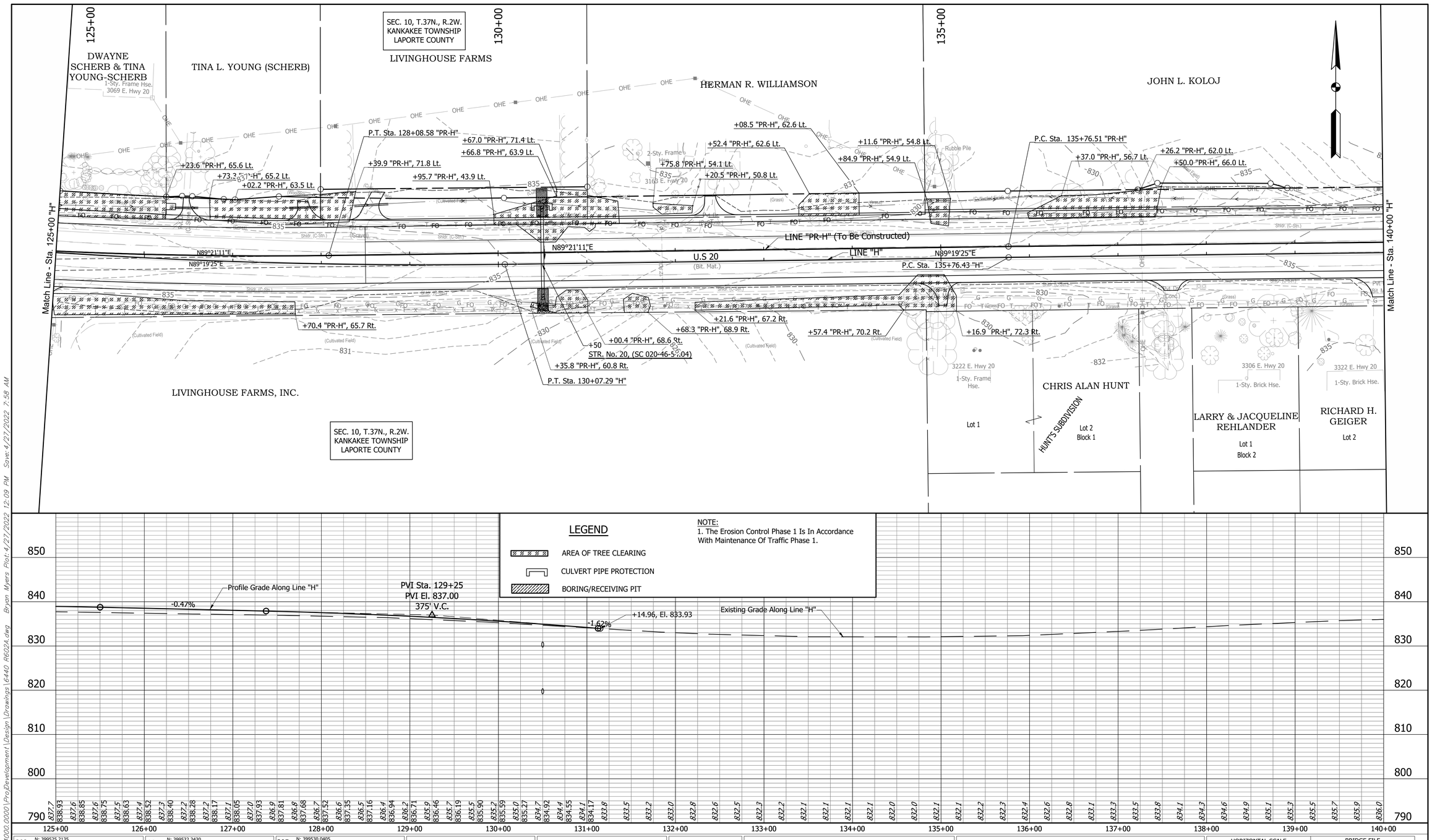
EROSION CONTROL PLANS
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	88 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

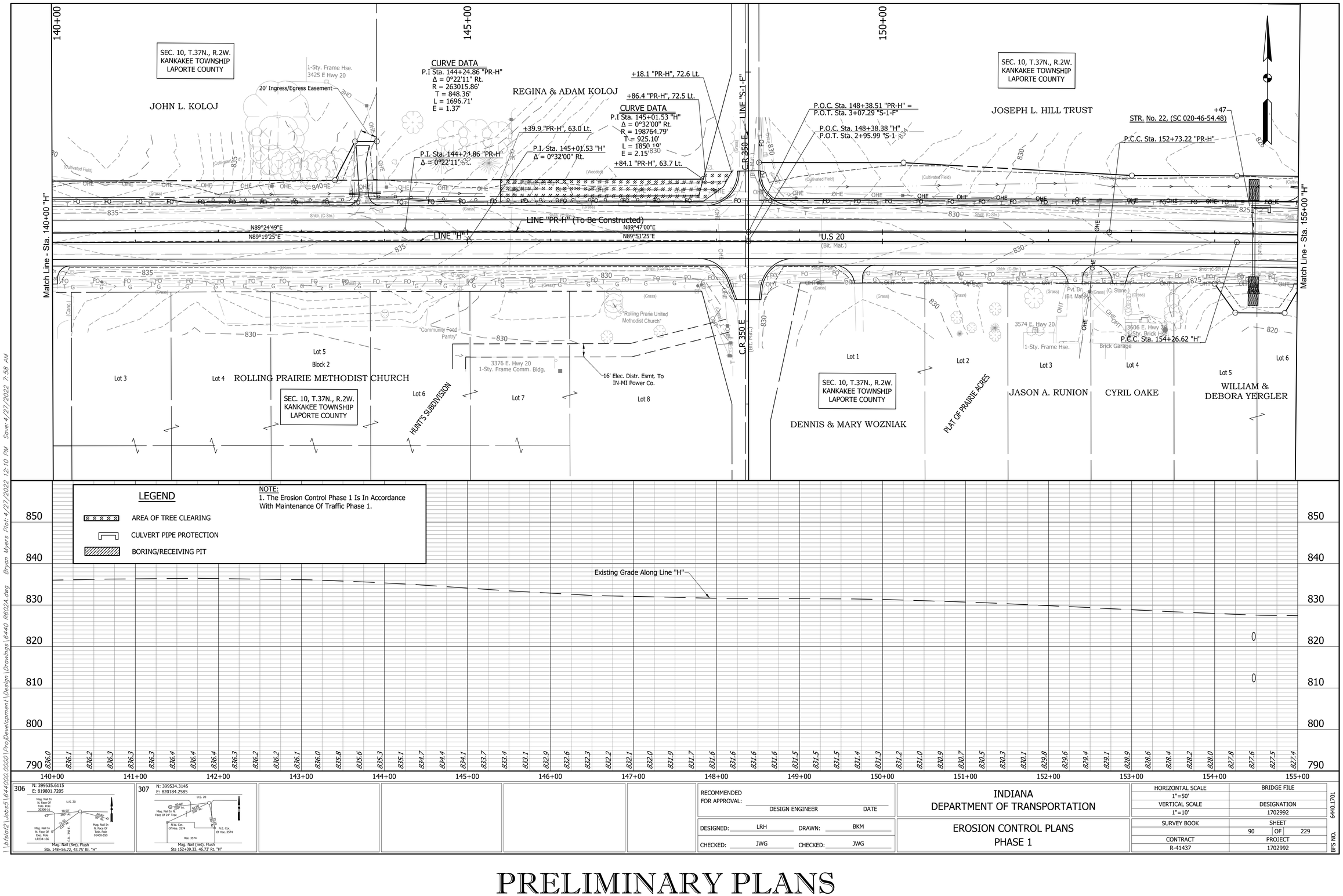


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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50'	BRIDGE FILE			
		VERTICAL SCALE 1"=10'	DESIGNATION 1702992			
DESIGNED: LRH DRAWN: BKM	EROSION CONTROL PLANS PHASE 1	SURVEY BOOK	SHEET 89 OF 229			
CHECKED: JWG CHECKED: JWG		CONTRACT R-41437	PROJECT 1702992			

BFS NO. 6440.1701

PRELIMINARY PLANS



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PRELIMINARY PLANS

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155+00 160+00 165+00 170+00

Match Line - Sta. 155+00 "H"

Match Line - Sta. 170+00 "H"

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

3701 E. Hwy 20
2 Sty. Brick Hse.

DUANE & ALICIA CLARICH

+60.5 "PR-H", 66.4 Lt.
+40.0 "PR-H", 55.2 Lt.
+37.3 "PR-H", 77.2 Lt.
+03.5 "PR-H", 89.3 Lt.
+61.0 "PR-H", 78.3 Lt.
+63.7 "PR-H", 73.6 Lt.
+27.8 "PR-H", 79.0 Lt.

N89°48'46"E
N89°51'27"E

LINE "PR-H" (To Be Constructed)

U.S. 20
(Bit. Mat.)

LINE "H"

+87.4 "PR-H", 69.0 Rt.
+87.4 "PR-H", 66.8 Rt.

+49.4 "PR-H", 60.0 Rt.
+22.3 "PR-H", 60.2 Rt.
+03.1 "PR-H", 60.3 Rt.
+31.4 "PR-H", 73.8 Rt.
+01.3 "PR-H", 76.9 Rt.
+86.3 "PR-H", 73.1 Rt.
+73.6 "PR-H", 60.5 Rt.
+33.3 "PR-H", 73.8 Rt.
+97.9 "PR-H", 74.0 Rt.
+43.0 "PR-H", 72.2 Rt.
+22.4 "PR-H", 72.2 Rt.

ASHLEY NEGRETE
Lot 8

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

SCOTT F. ERNEY
Lot 7

RONALD & HORMA ROSENTRETER
Lot 6

PLAT OF PRAIRIE ACRES

Lot 9
Lot 10
Lot 11
Lot 12
Lot 13
Lot 14
Lot 15
Lot 16

ROBERT & JANET SCHULTZ

CATHARINE M. ATHERTON

PLAT OF PRAIRIE ACRES

LEGEND

AREA OF TREE CLEARING

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.

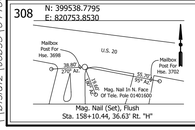
Existing Grade Along Line "H"

850 840 830 820 810 800 790

827.4 827.4 827.4 827.5 827.6 827.8 827.9 828.1 828.2 828.4 828.5 828.6 828.7 828.8 828.9 828.9 829.0 829.0 829.0 828.9 828.9 828.8 828.7 828.6 828.5 828.4 828.3 828.2 828.1 828.0 827.9 827.8 827.7 827.6 827.5 827.4 827.2 827.1 827.0 826.9 826.8 826.7 826.6 826.5 826.4 826.3 826.2 826.1 826.0 825.9 825.8 825.7 825.6 825.5 825.4 825.3 825.1 825.0 824.9 824.8 824.7

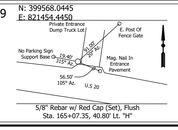
155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00

308 N: 399538.7795 E: 820753.8530



Mag. Nail (Set), Flush
Sta. 158+10.44, 36.63' Rt. "H"

309 N: 399568.0445 E: 821454.4450



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 165+07.35, 40.80' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	91 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

P.I. Sta. 170+62.52 "PR-H"
Δ = 18°33'40" Rt.

P.I. Sta. 171+00.43 "H"
Δ = 18°31'00" Rt.

N89°51'27"E

S71°37'50"E

W. Michigan St.
(Bit. Mat.)

WILLIAM & MARILEE MCGUIRE

P.O.C. Sta. 175+02.98 "H" =
P.O.T. Sta. 2+98.91 "S-1-G"

FAMILY EXPRESS CORPORATION

THE TIME LOW CORPORATION

Byron Rd.

Lynn St.

W. Mechanic St.

CHARLES & JULIE DARWIN

DOROTHY & JERRY SCHROEDER

JON & KATHLEEN MILLER

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

P.O.T. Sta. 5+00.00 "S-2-G"

STATE OF INDIANA
W.J. WALKER'S FIRST ADDITION TO PORTLAND

NICKLAS & CHRISTINA SODER

DONALD & JACQUELINE PROSSER

HUNTER PARMLEY

STATE OF INDIANA

S Oak St

+97.5 "PR-H", 50.4 Lt.

+02.1 "PR-H", 46.1 Lt.

STR. No. 26, (SC 020-46-54.91)
Abandon Structure In-Place.
See Construction Details For
More Information.

P.O.C. Sta. 177+63.65 "H" =
P.O.T. Sta. 2+48.98 "S-2-G"

U.S.20

LINE "PR-H" (To Be Constructed)

LINE "S-2-G"

LINE "S-1-G"

Match Line - Sta. 170+00 "H"

Match Line - Sta. 185+00 "H"

+89.6 "PR-H", 58.4 Rt.

+53.1 "PR-H", 64.1 Rt.

CURVE DATA
P.I Sta. 170+62.52 "PR-H"
Δ = 18°33'40" Rt.
R = 10949.88'
T = 1789.30'
L = 3547.25'
E = 145.23'

CURVE DATA
P.I Sta. 171+00.43 "H"
Δ = 18°31'00" Rt.
R = 10268.15'
T = 1673.81'
L = 3318.42'
E = 135.53'

MELANIE YASKO & GAEL ROSENBAUM

DOUGLAS L. ATHERTON

P.O.C. Sta. 175+04.34 "PR-H" =
P.O.T. Sta. 2+94.69 "S-1-G"

P.O.T. Sta. 0+00.00 "S-2-G"

SEC. 10, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

STEVEN VOGEL

DORIS KRENZKE

W.J. WALKER'S FIRST ADDITION TO PORTLAND

P.O.C. Sta. 177+59.20 "PR-H" =
P.O.T. Sta. 2+42.67 "S-2-G"

+80.8 "PR-H", 62.0 Rt.

+85.3 "PR-H", 56.5 Rt.

+20.6 "PR-H", 52.0 Rt.

+11.9 "PR-H", 72.3 Rt.

+10.6 "PR-H", 59.9 Rt.

JAMES & ANN RIEDSTRA

JOHNATHON KUESPERT

JACK STROP & JODY GILCHRIST

SCOTT VANWANZEELE

STATE OF INDIANA

SEC. 11, T.37N., R.2W.
KANKAKEE TOWNSHIP
LAPORTE COUNTY

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.

LEGEND
- AREA OF TREE CLEARING
- CULVERT PIPE PROTECTION
- BORING/RECEIVING PIT

Existing Grade Along Line "H"

310 N: 399526.3090 E: 822008.5150
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 170+59.23, 71.05' Lt. "H"

311 N: 399605.4080 E: 822261.0135
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 172+92.00, 191.23' Lt. "H"

312 N: 399551.5505 E: 822474.2795
Mag. Nail (Set), Flush
Sta. 175+07.71, 178.54' Lt. "H"

313 N: 399225.6870 E: 822458.5205
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 175+57.77, 143.82' Rt. "H"

314 N: 399370.6080 E: 822763.4705
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 178+25.19, 63.66' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

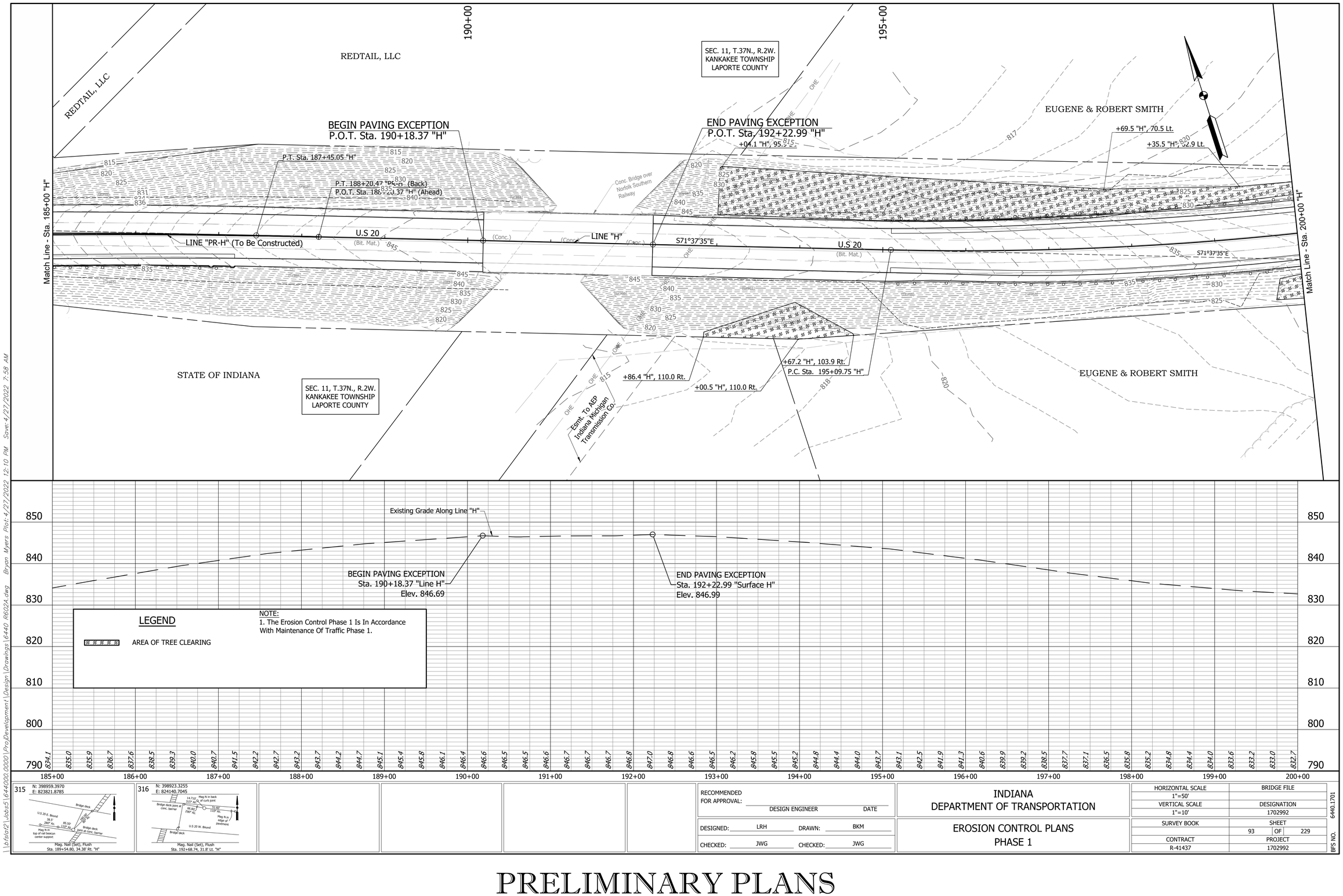
EROSION CONTROL PLANS
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	92 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

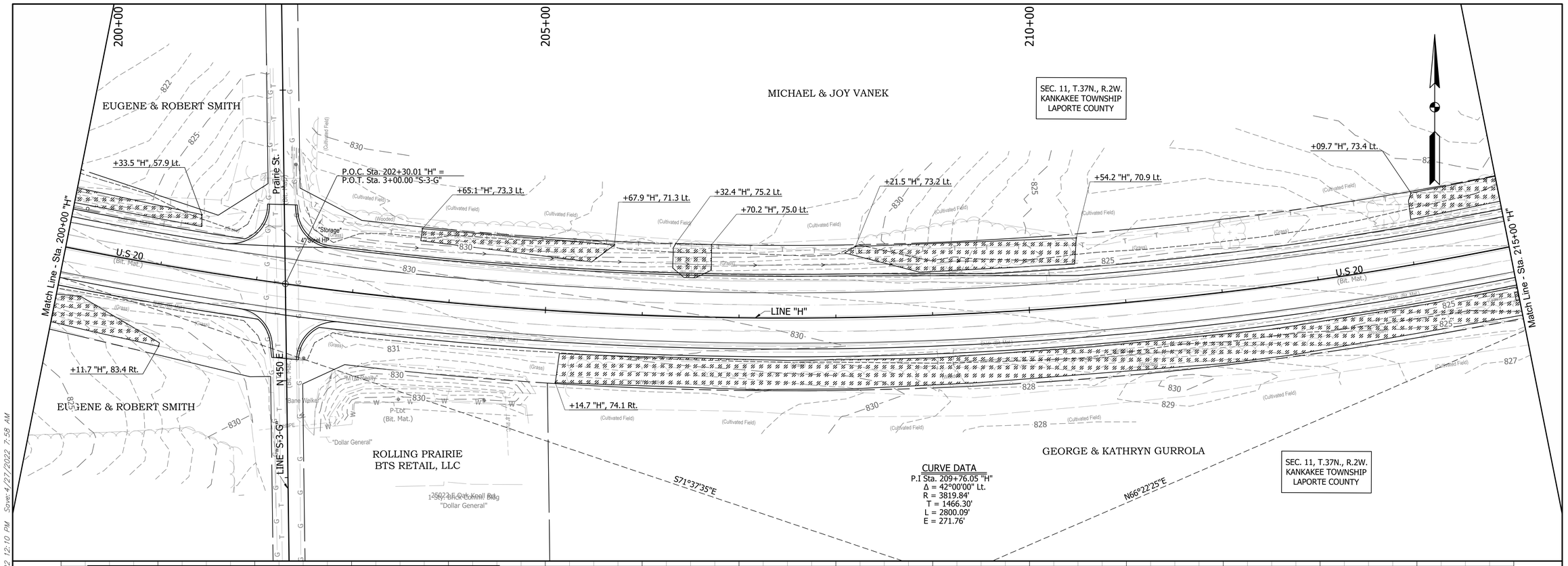
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PRELIMINARY PLANS



PRELIMINARY PLANS

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LEGEND

AREA OF TREE CLEARING

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.

317 N: 398595.4365 E: 825083.4210
Mag. Nail (Set), Flush
Sta. 202+60.49, 56.77' Rt. "H"

318 N: 398693.1545 E: 825574.4600
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 207+45.93, 70.77' Lt. "H"

319 N: 398628.3125 E: 826152.8285
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 213+20.37, 39.33' Rt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

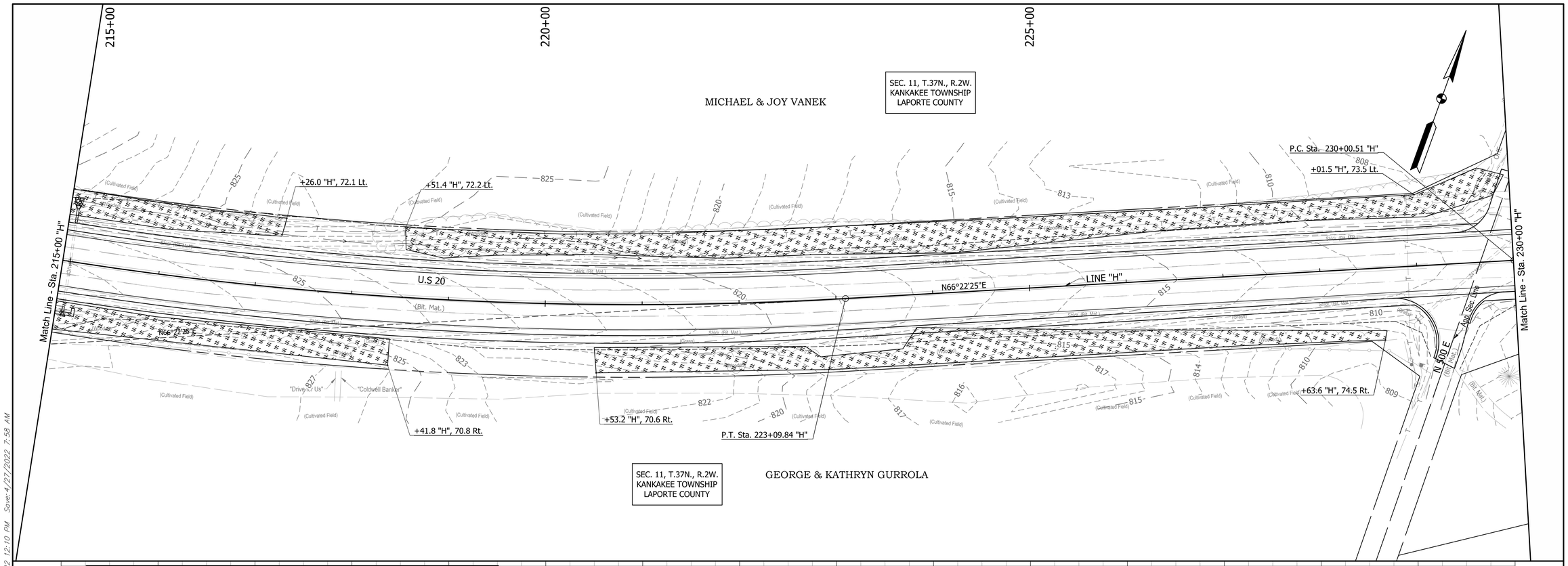
EROSION CONTROL PLANS
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	94 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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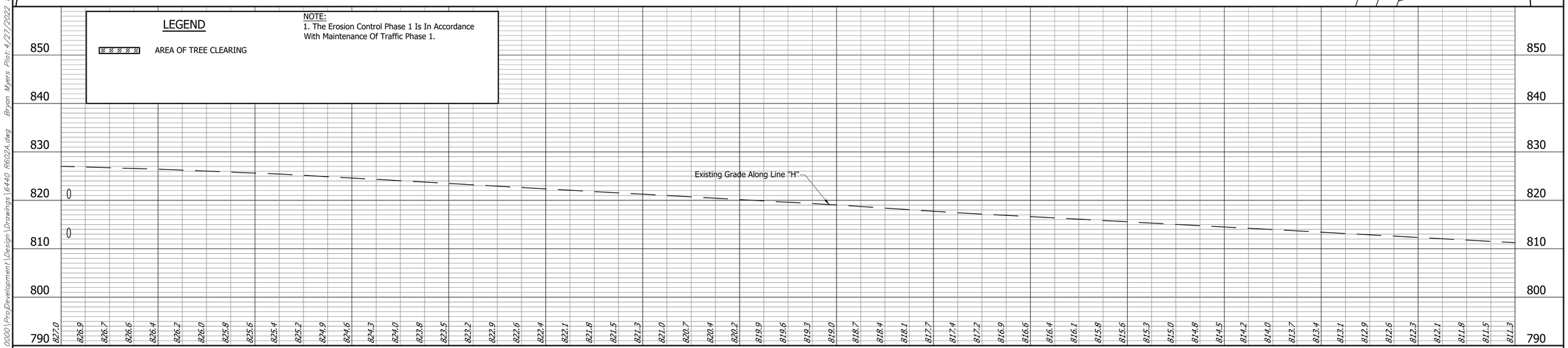
PRELIMINARY PLANS



LEGEND

AREA OF TREE CLEARING

NOTE:
1. The Erosion Control Phase 1 Is In Accordance With Maintenance Of Traffic Phase 1.



320 N: 398755.2100 E: 826689.7245
Mag nail in EP
U.S 20 E. Bound
N. face of billboard support base
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 218+67.17, 35.36' Rt. "H"

322 N: 399231.8055 E: 827659.0010
500 E
Mag N in E face utility pole #1235197
Stop sign support base
68.20' 69° Az.
Chiseled "X" Conc. Head wall
U.S 20 W. Bound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 229+43.11, 38.70' Lt. "H"

321 N: 398902.1915 E: 827090.5960
Mag nail in EP
U.S 20 E. Bound
26.20' 50° Az.
Mag nail N. face of 24" tree
Mag nail N. face of 8" fence post
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 222+90.43, 35.54' Rt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

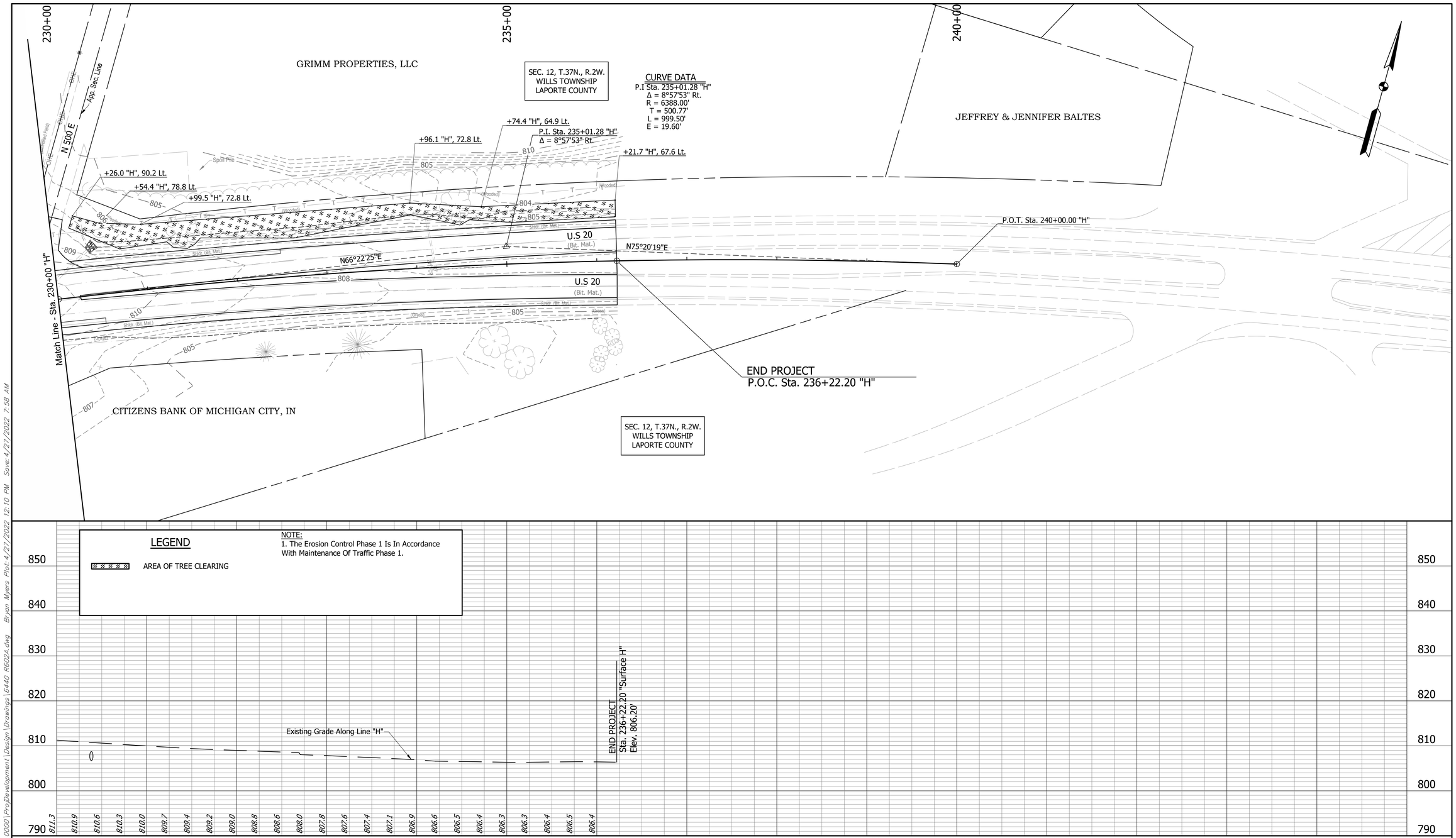
EROSION CONTROL PLANS
PHASE 1

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	95 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



323 N: 399398.2990 E: 828059.3145

W. Edge of conc. headwall

W. Edge of conc. headwall

Grave slab

U.S.20

5/8" Rebar w/ Red Cap (Set), Flush
Sta. 233+74.37, 41.81' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 1

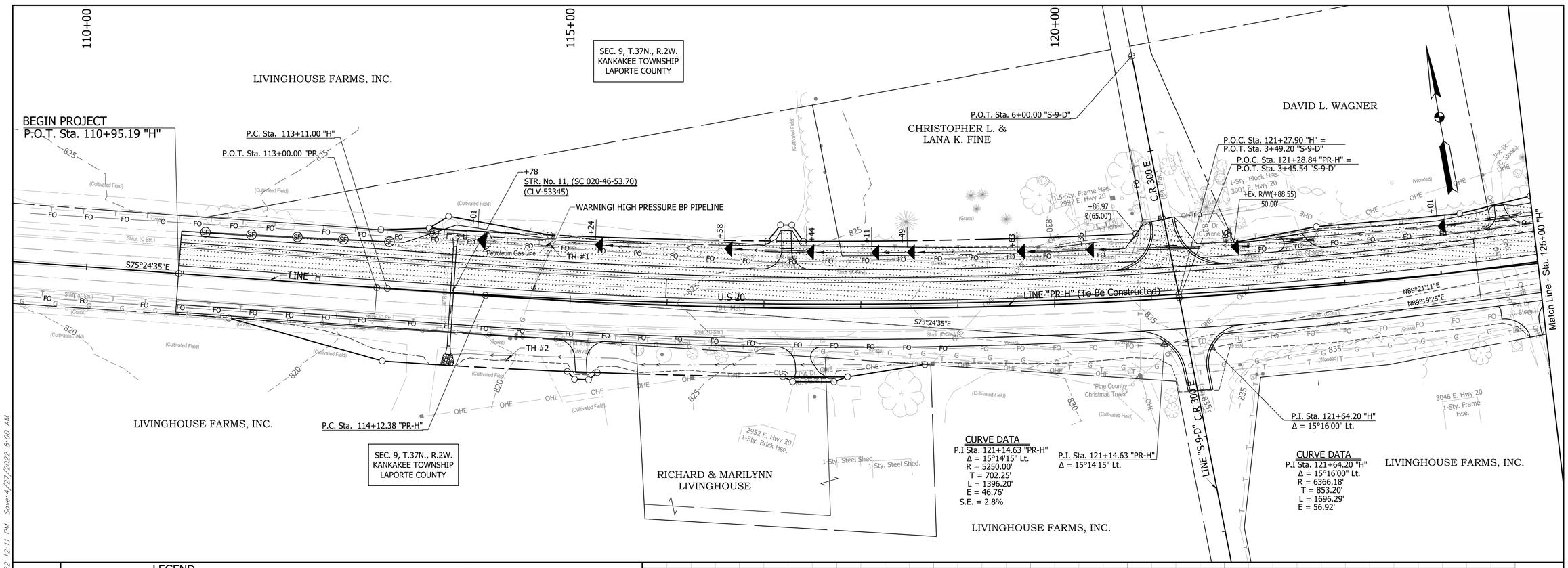
HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	96 OF 229
CONTRACT	PROJECT
R-41437	1702992

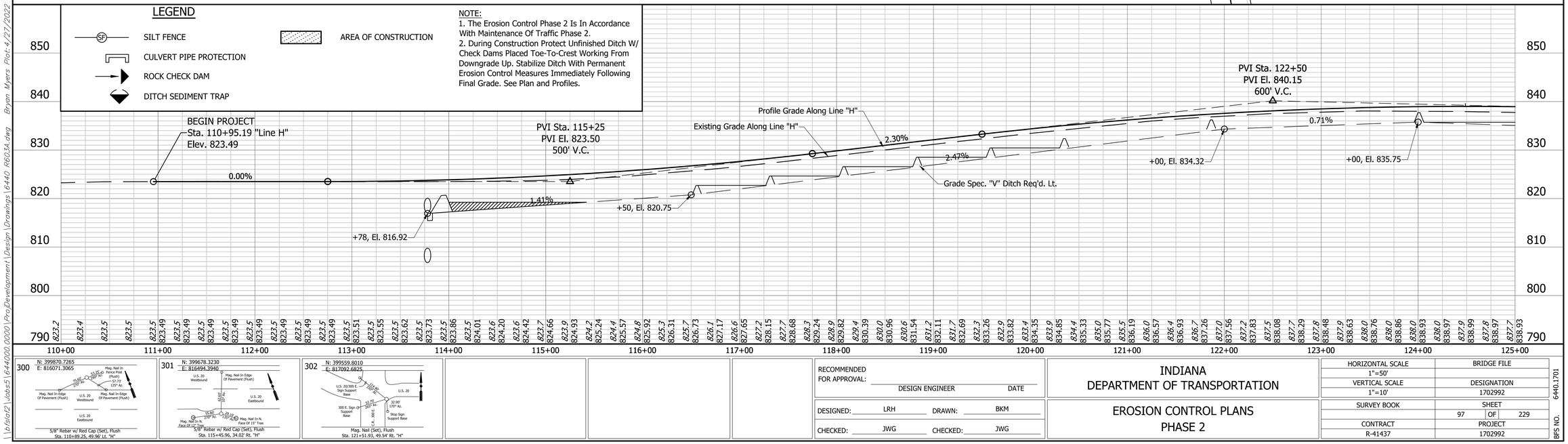
BFS NO. 6440.1701

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PRELIMINARY PLANS

Layout Set For Color





300 N: 399870.7265 E: 816071.3065
Mag. Nail In Fence Post (Flush) 57.73' 125° Az.
Mag. Nail In Edge Of Pavement (Flush)
U.S. 20 Westbound
U.S. 20 Eastbound
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 110+89.25, 49.96' Lt. "H"

301 N: 399678.3230 E: 816494.3940
Mag. Nail In Edge Of Pavement (Flush)
U.S. 20 Westbound
U.S. 20 Eastbound
Mag. Nail In N. Face Of 15" Tree
Mag. Nail In N. Face Of 11" Tree
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 115+45.96, 34.02' Rt. "H"

302 N: 399559.8010 E: 817092.6825
U.S. 20/300 E. Sign Support Base
300 E. Sign Of Support Base
Stop Sign Support Base
Mag. Nail (Set), Flush
Sta. 121+51.93, 49.54' Rt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

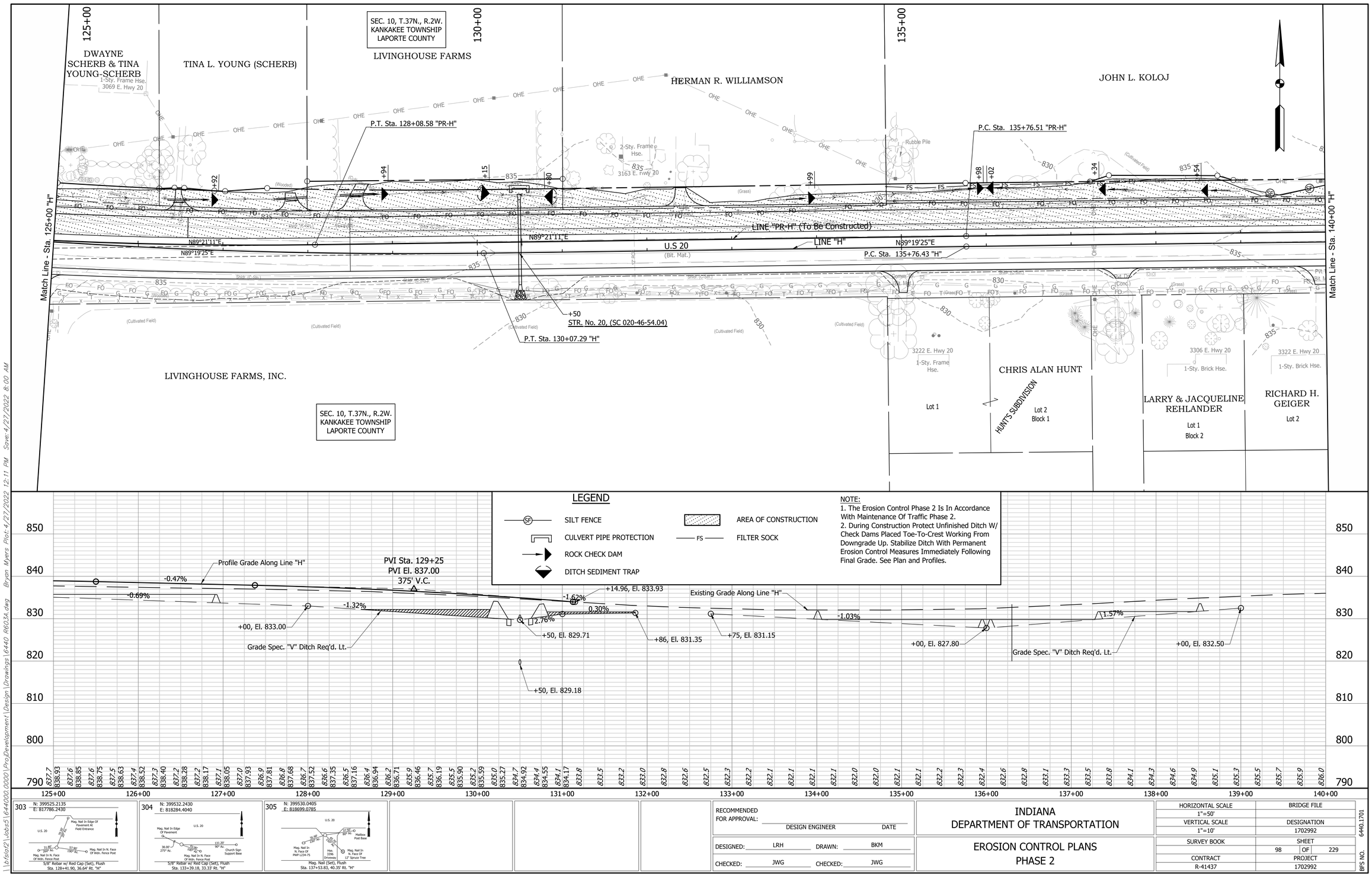
EROSION CONTROL PLANS
PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	97 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

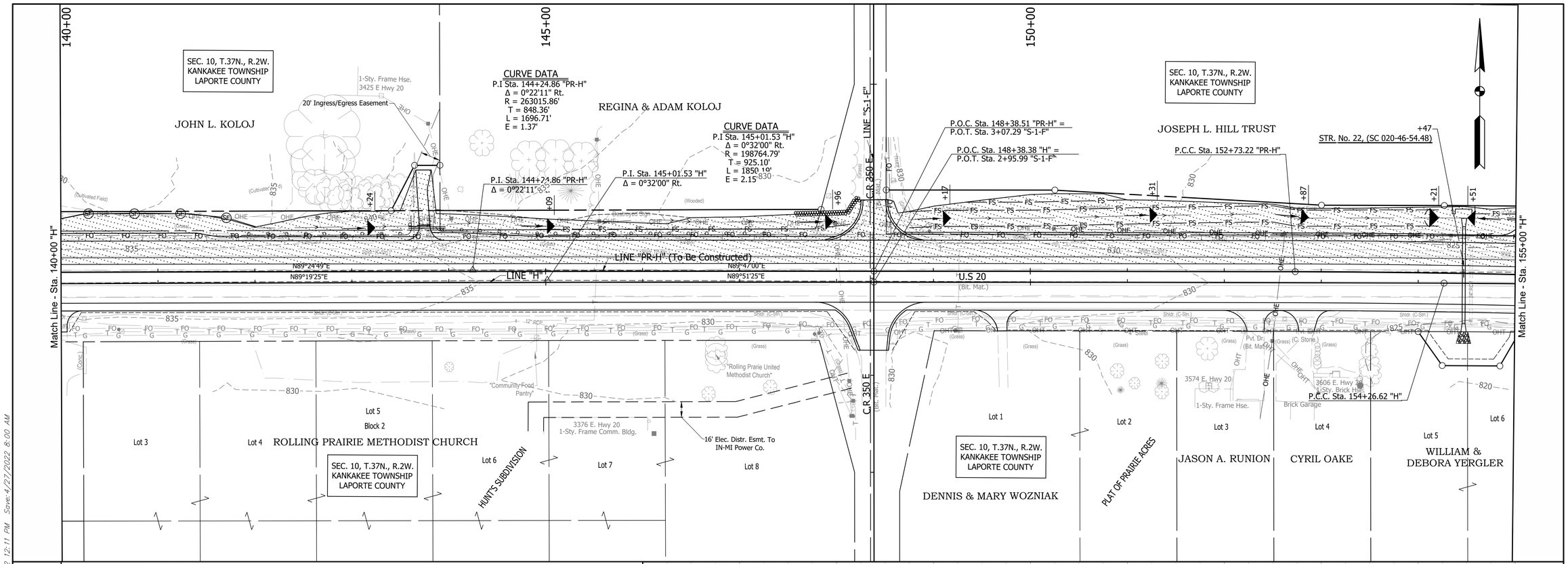
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PRELIMINARY PLANS



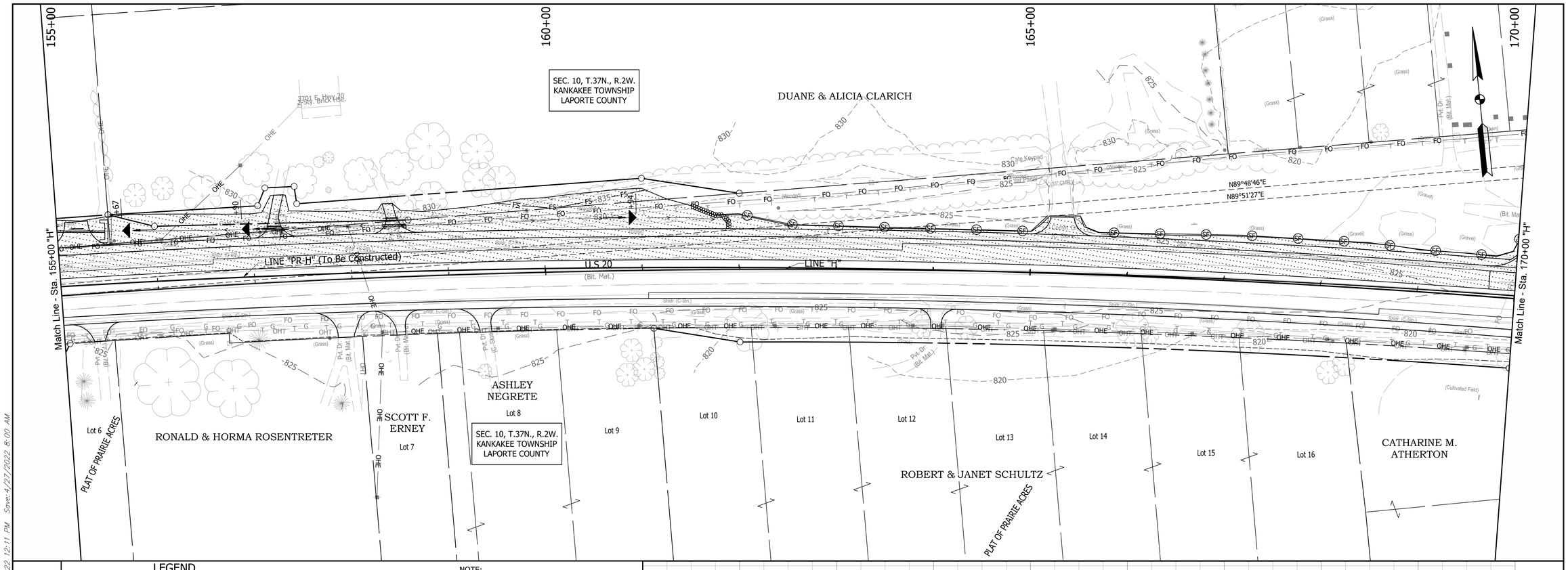
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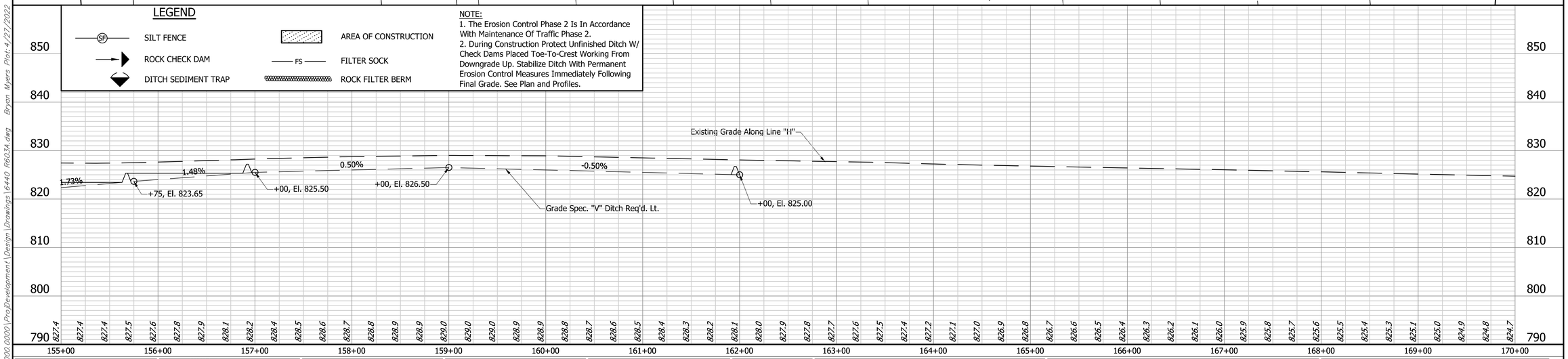
PRELIMINARY PLANS



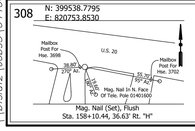
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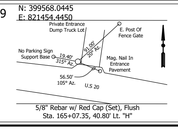




308 N: 399538.7795 E: 820753.8530



309 N: 399568.0445 E: 821454.4450



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

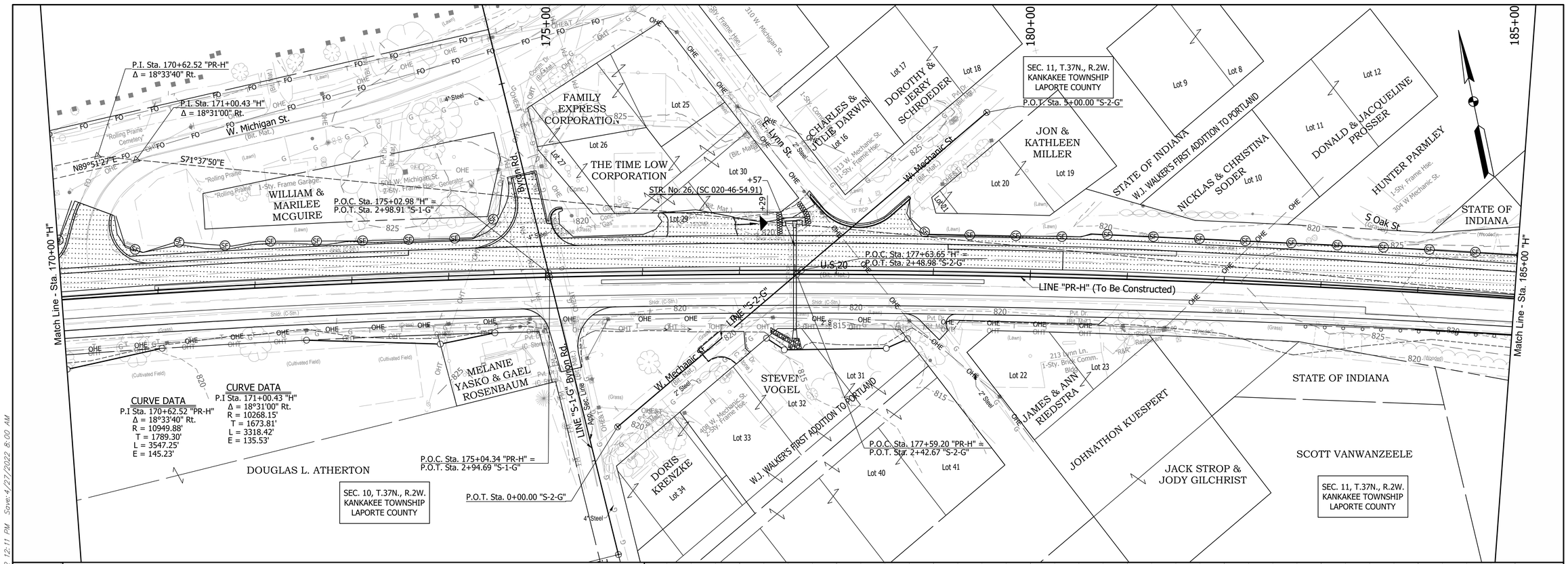
INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	100 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

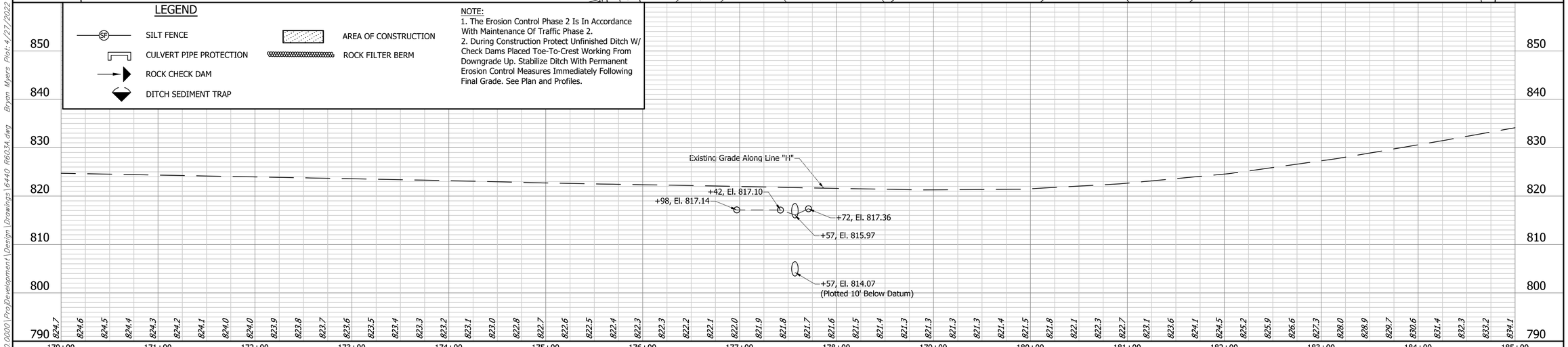
PRELIMINARY PLANS

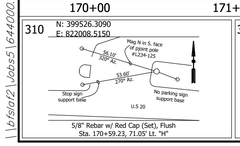


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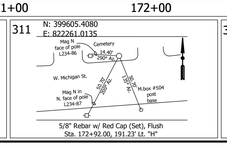
- SILT FENCE
- CULVERT PIPE PROTECTION
- ROCK CHECK DAM
- DITCH SEDIMENT TRAP
- AREA OF CONSTRUCTION
- ROCK FILTER BERM

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

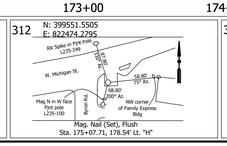




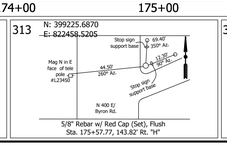
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 170+59.23, 71.05' Lt. "H"



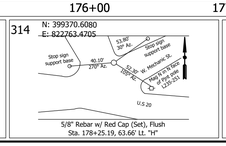
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 172+92.00, 191.23' Lt. "H"



Mag. Nail (Set), Flush
Sta. 175+07.71, 178.54' Lt. "H"



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 175+57.77, 143.82' Rt. "H"



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 178+25.19, 63.66' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

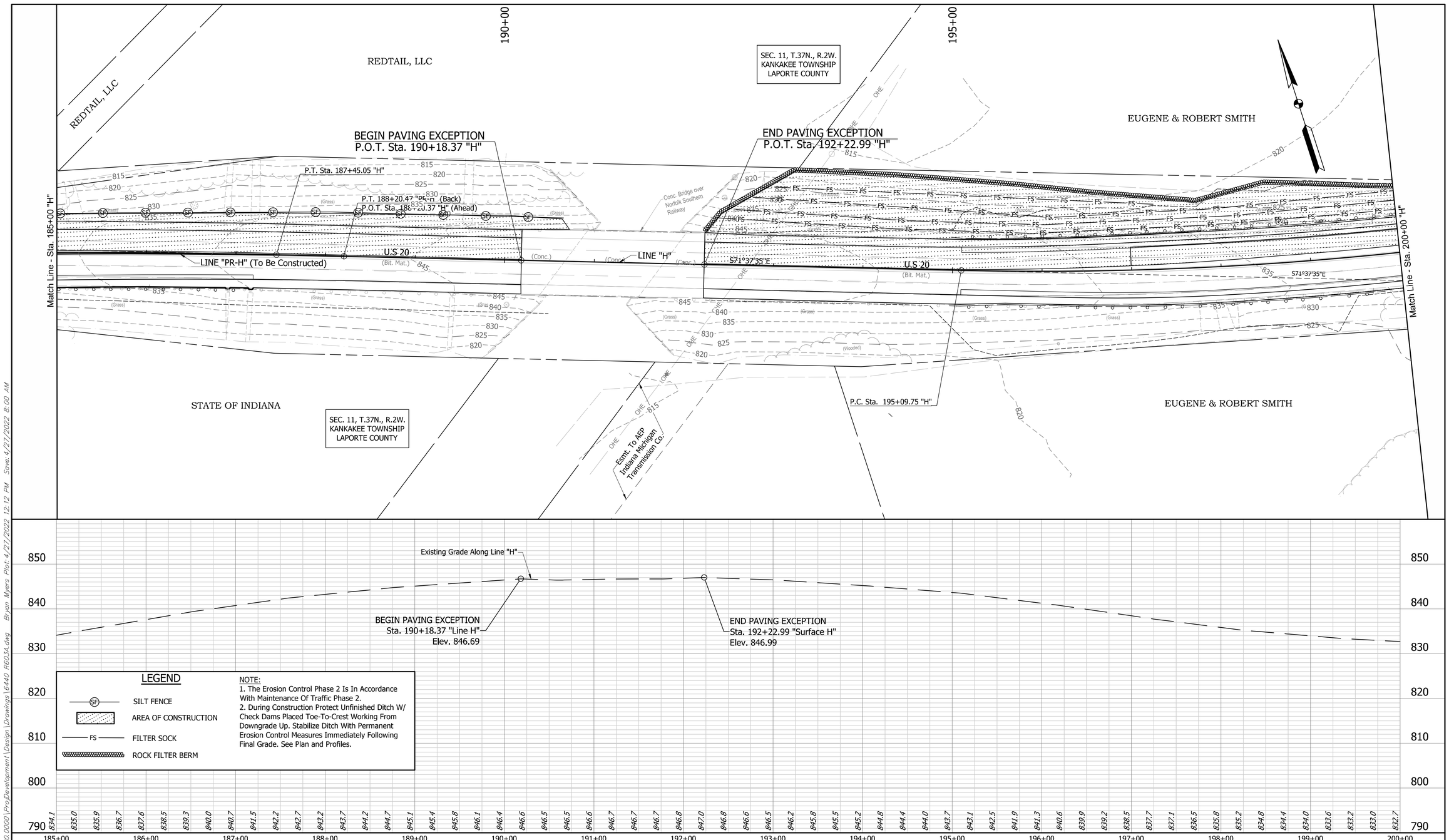
EROSION CONTROL PLANS PHASE 2

HORIZONTAL SCALE 1"=50'	BRIDGE FILE
VERTICAL SCALE 1"=10'	DESIGNATION 1702992
SURVEY BOOK	SHEET 101 OF 229
CONTRACT R-41437	PROJECT 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

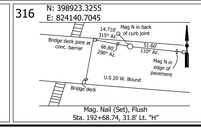
- SF — SILT FENCE
- AREA OF CONSTRUCTION
- FS — FILTER SOCK
- ROCK FILTER BERM

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

315 N: 398959.3970 E: 823821.8785



316 N: 398923.3255 E: 824140.7045



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

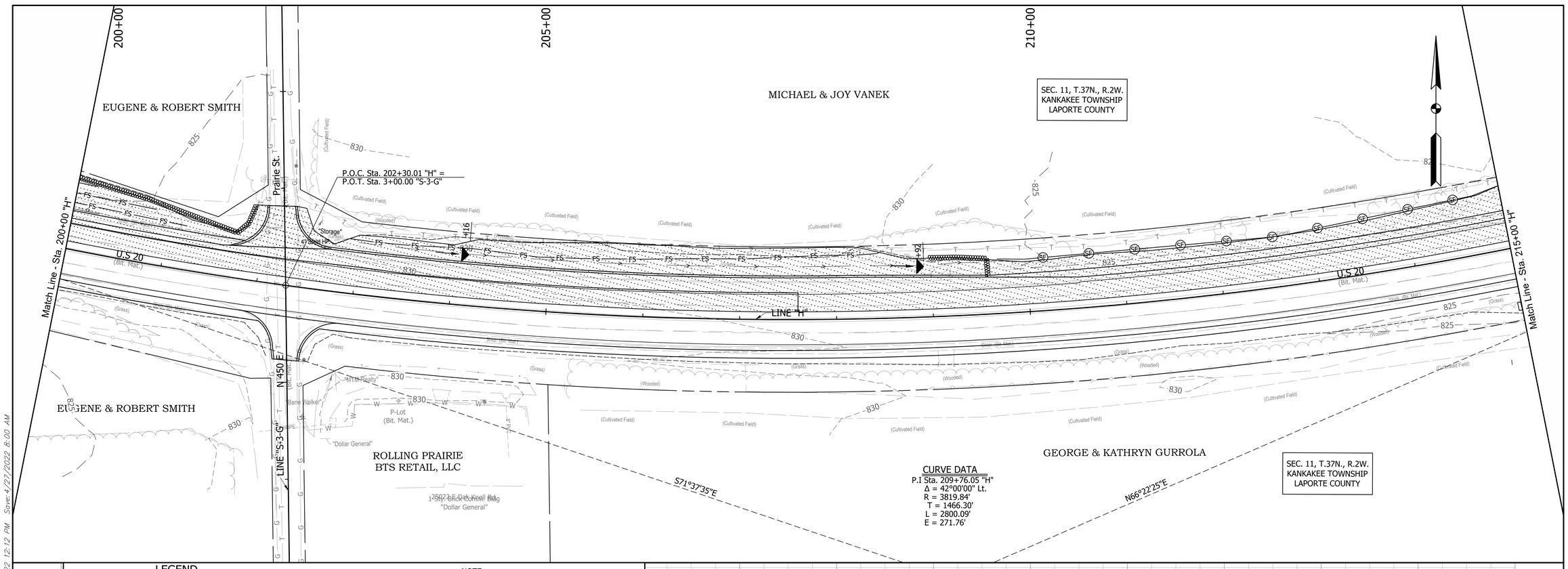
EROSION CONTROL PLANS
PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	102 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

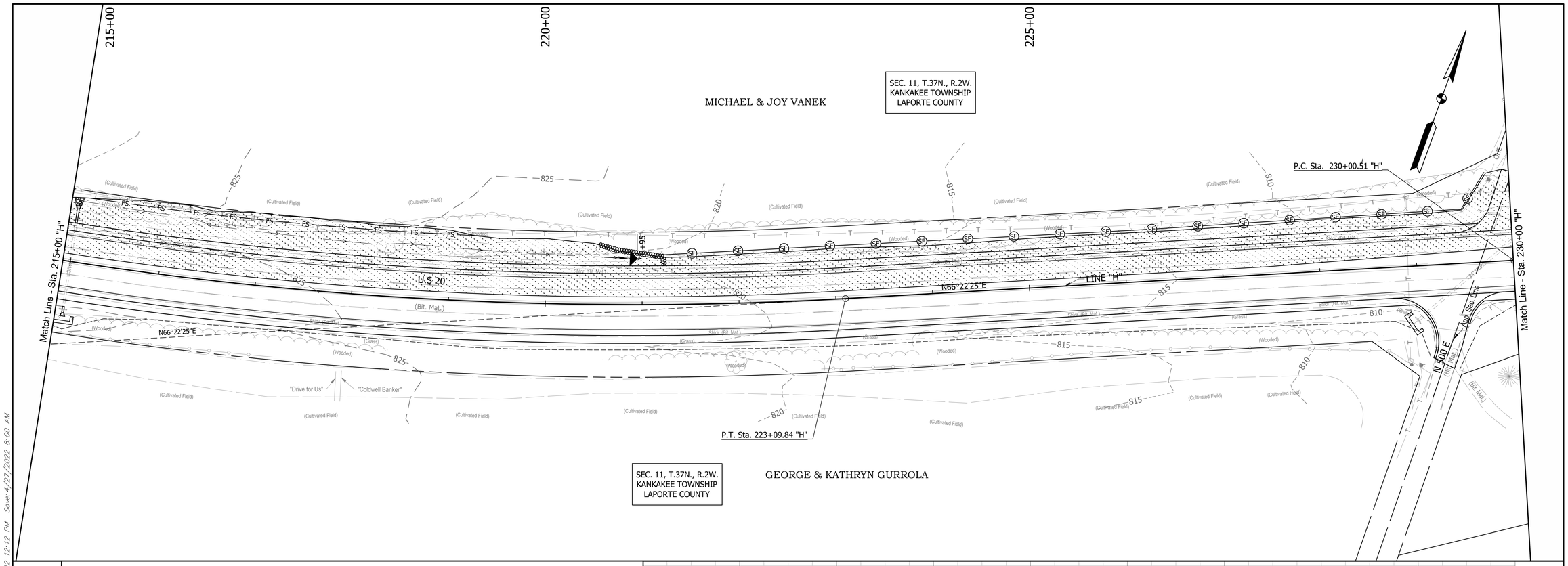
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PRELIMINARY PLANS



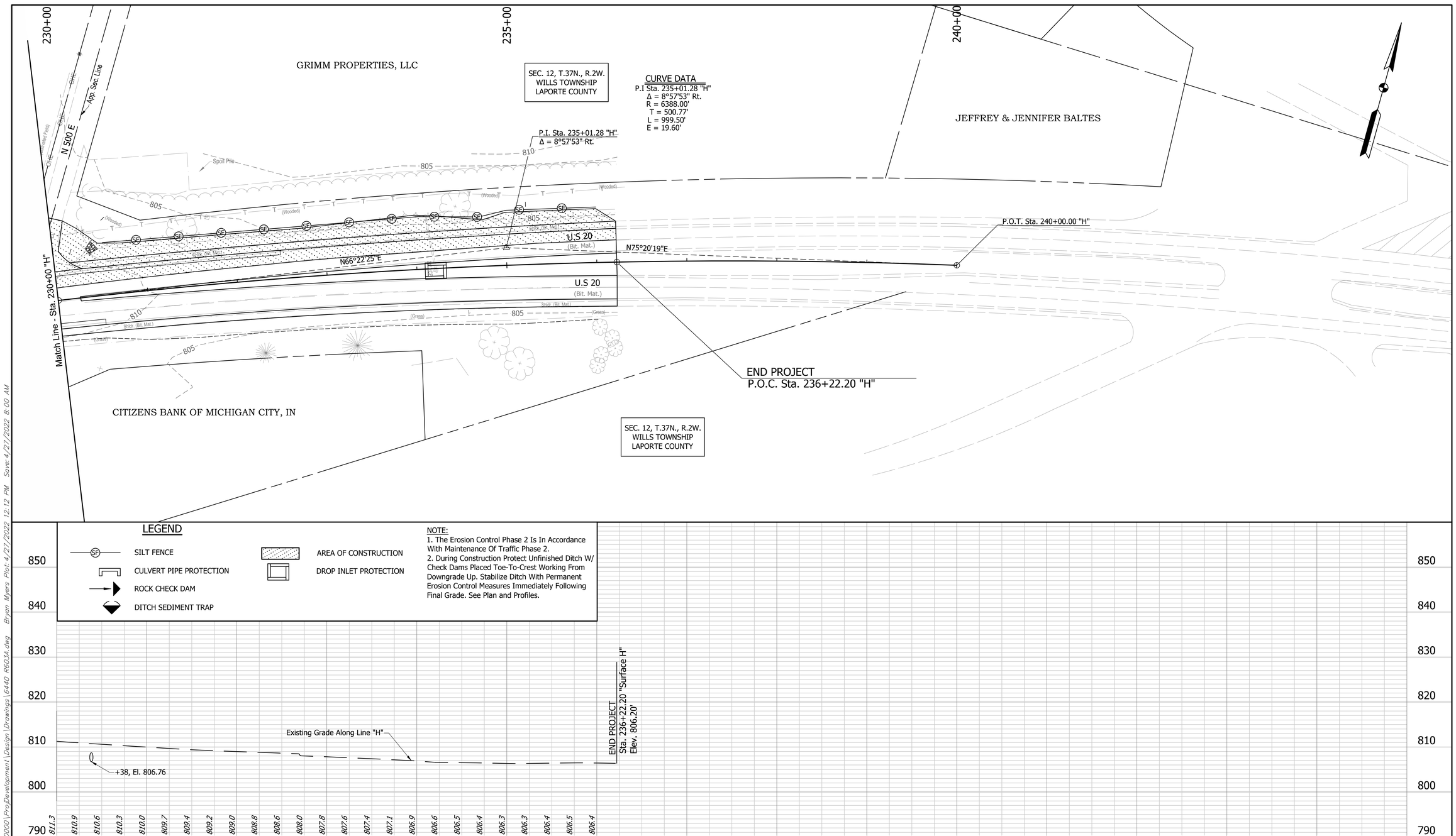
PRELIMINARY PLANS

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PRELIMINARY PLANS



323
N: 399398.2990
E: 828059.3145
W. Edge of conc. headwall
E. Edge of conc. headwall
Grave shldr
U.S.20
5/8" Rebar w/ Red Cap (Set), Flush
Sta. 233+74.37, 41.81' Lt. "H"

RECOMMENDED FOR APPROVAL:
DESIGN ENGINEER DATE

DESIGNED: LRH DRAWN: BKM
CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 2

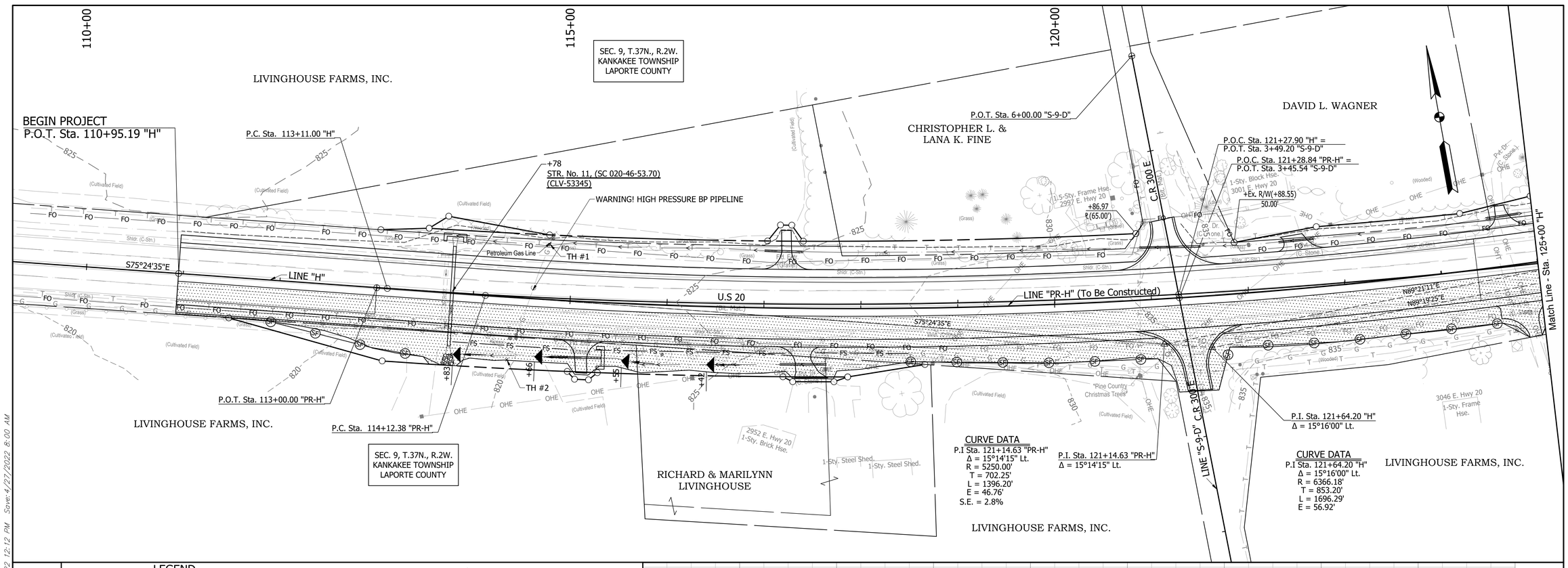
HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	105 OF 229
CONTRACT	PROJECT
R-41437	1702992

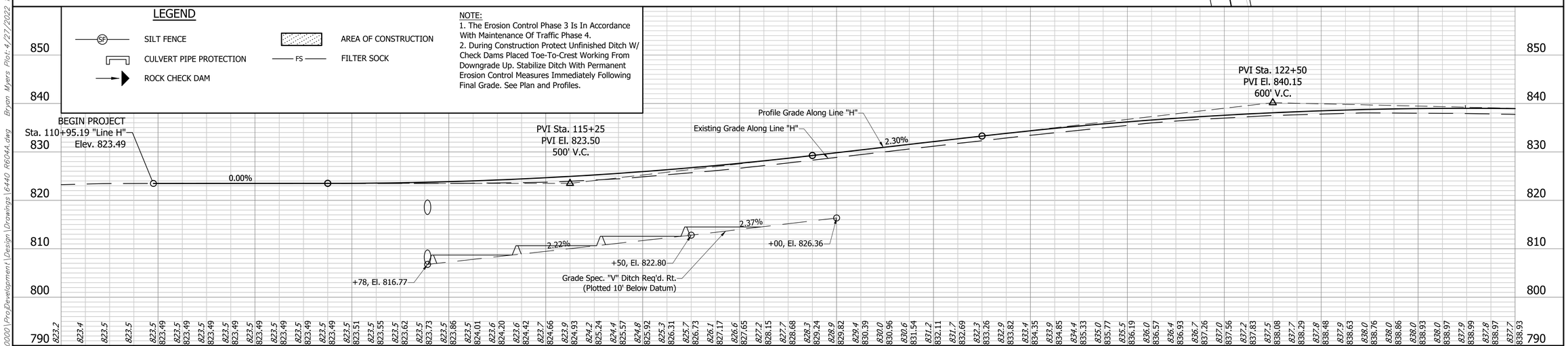
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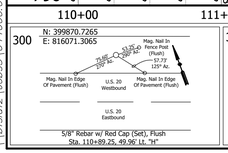
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PRELIMINARY PLANS

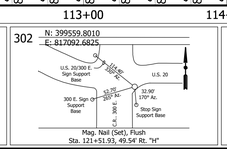
Layer: State Set Per Sheet









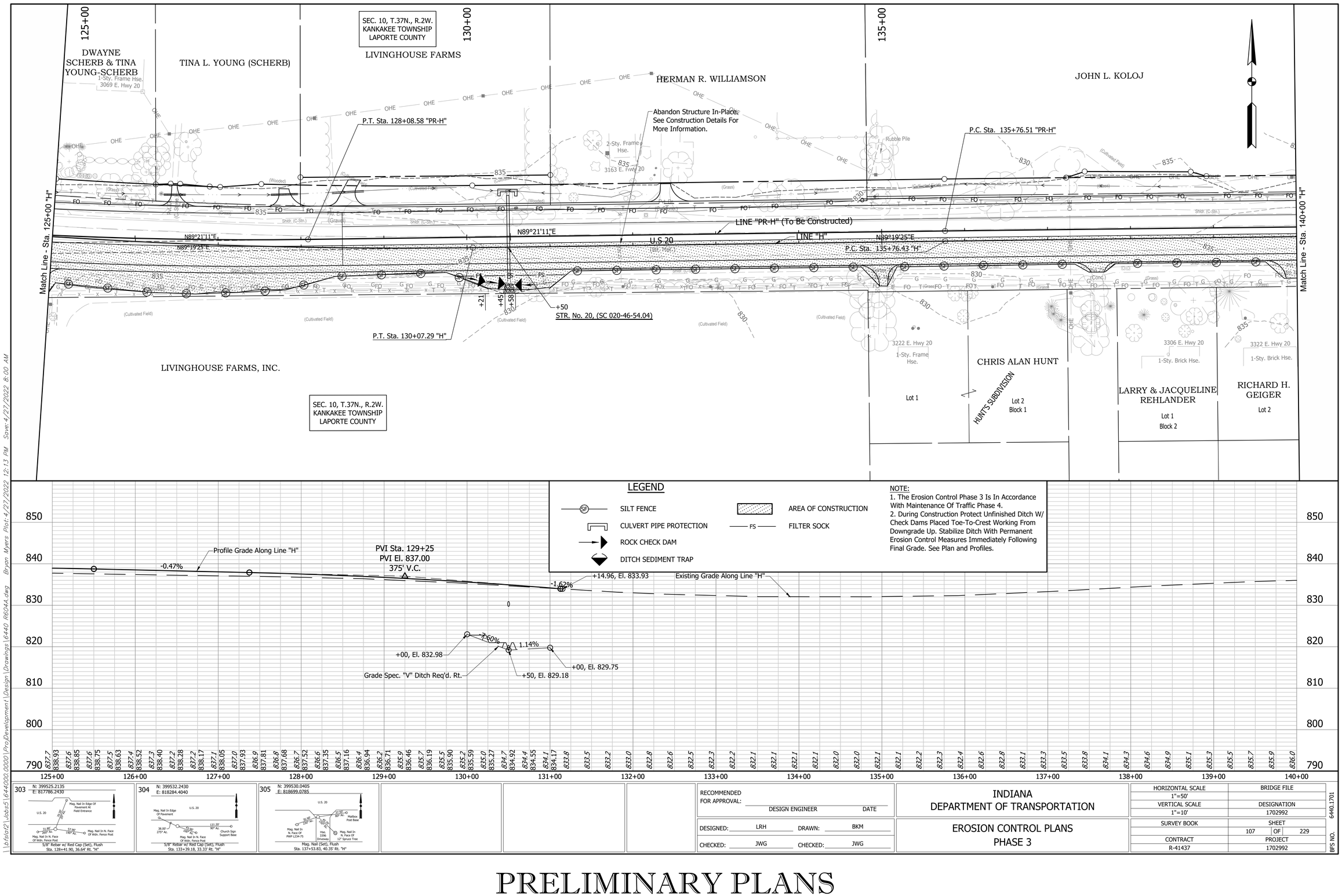


RECOMMENDED FOR APPROVAL: DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1"=50'	BRIDGE FILE
DESIGNED: LRH DRAWN: BKM	EROSION CONTROL PLANS PHASE 3	VERTICAL SCALE 1"=10'	DESIGNATION 1702992
CHECKED: JWG CHECKED: JWG		SURVEY BOOK	SHEET 106 OF 229
		CONTRACT R-41437	PROJECT 1702992

BFS NO. 6440.1701

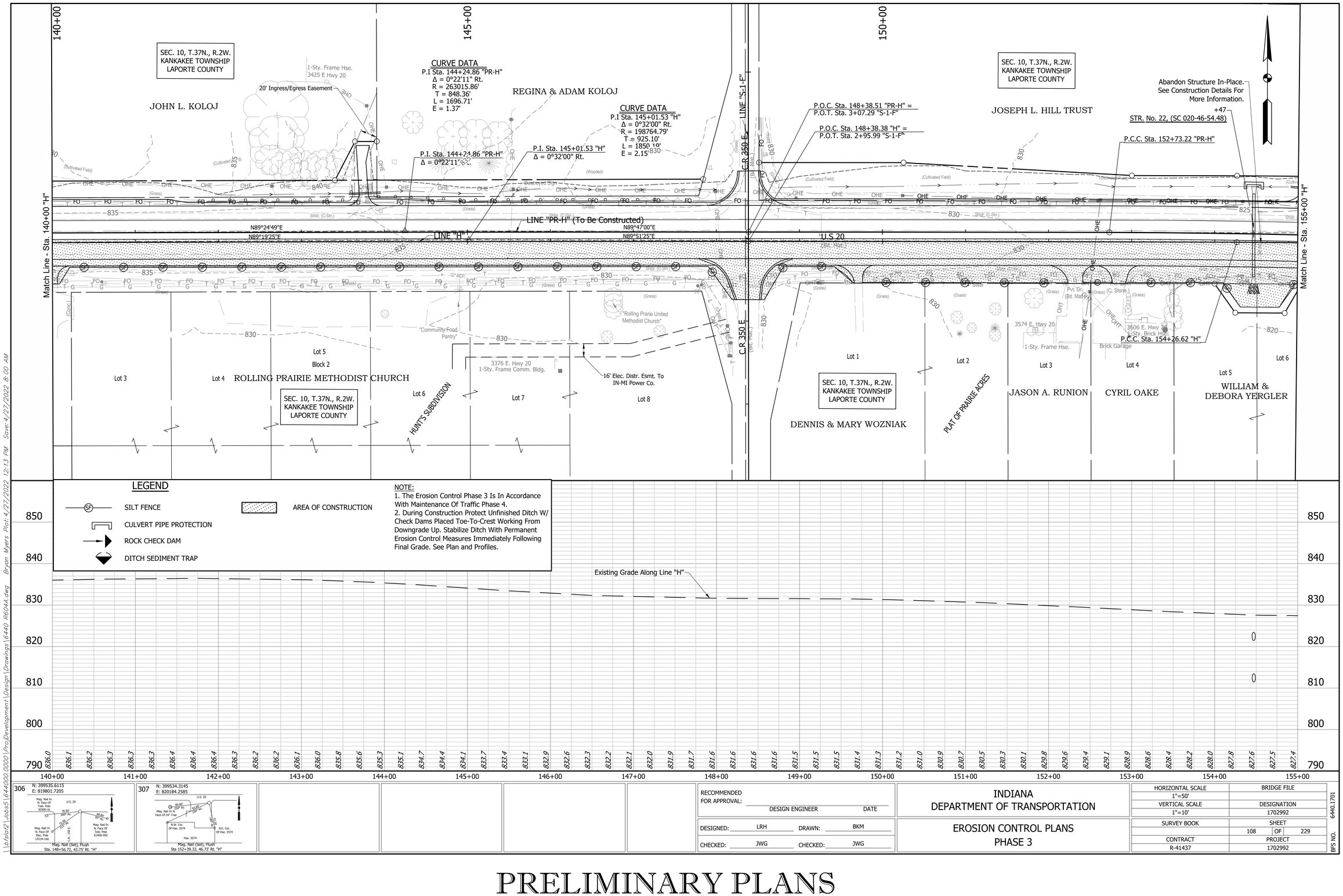
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PRELIMINARY PLANS



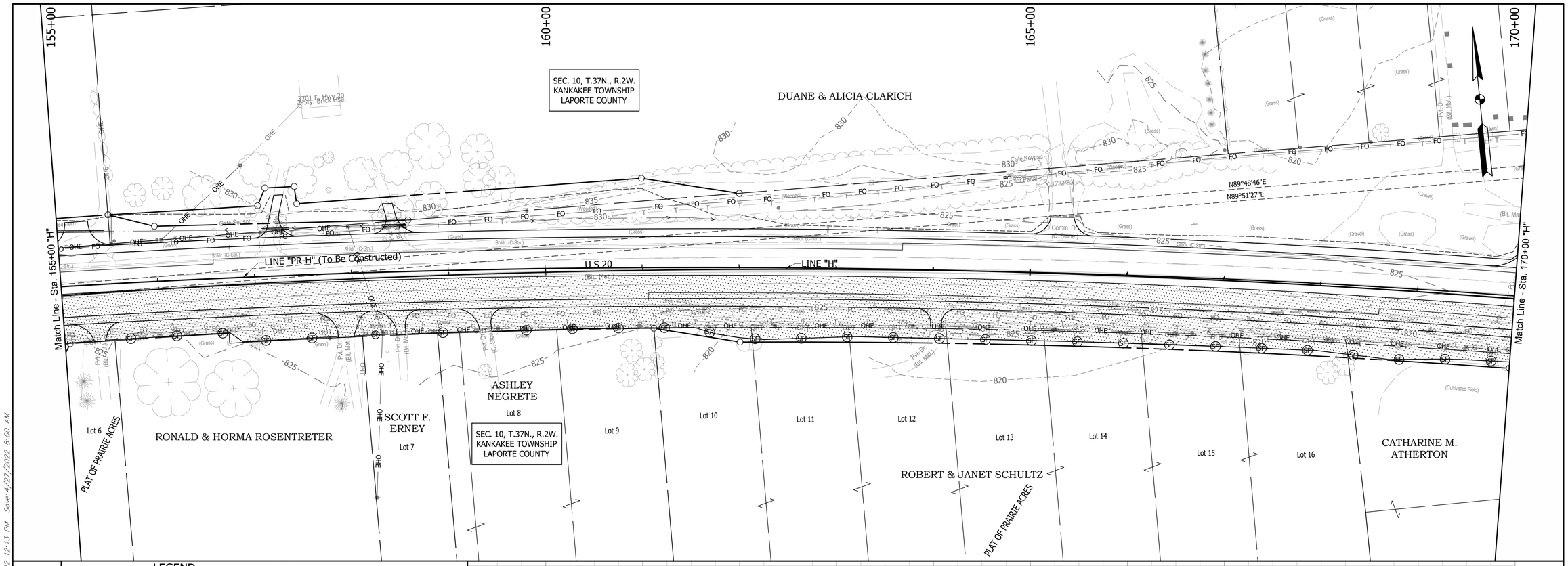
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PRELIMINARY PLANS



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PRELIMINARY PLANS

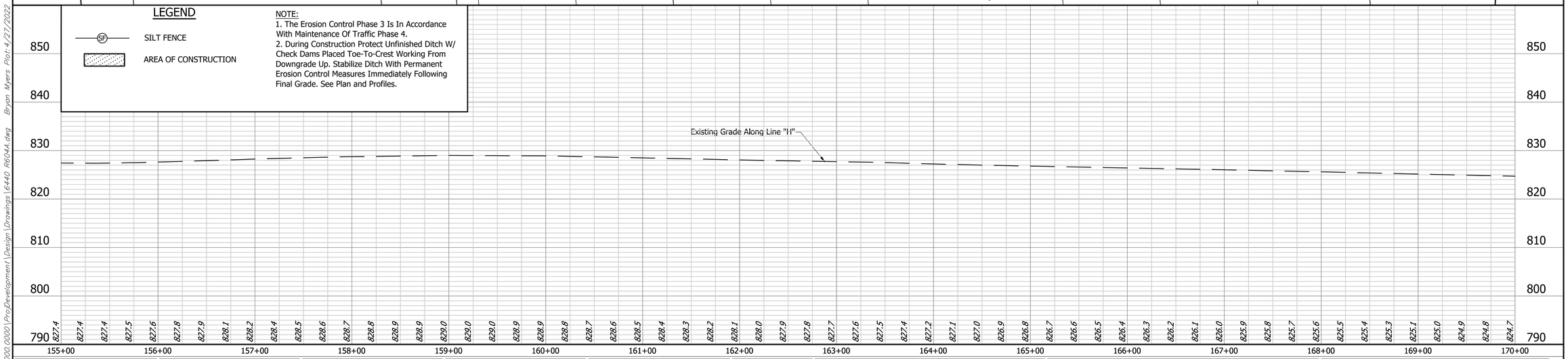


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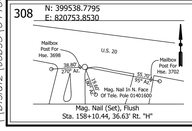
SF — SILT FENCE

AREA OF CONSTRUCTION

NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.

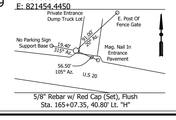


308 N: 399538.7795 E: 820753.8530



Mag. Nail (Set), Flush
Sta. 158+10.44, 36.63' Rt. "H"

309 N: 399568.0445 E: 821454.4450



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 165+07.35, 40.80' Lt. "H"

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

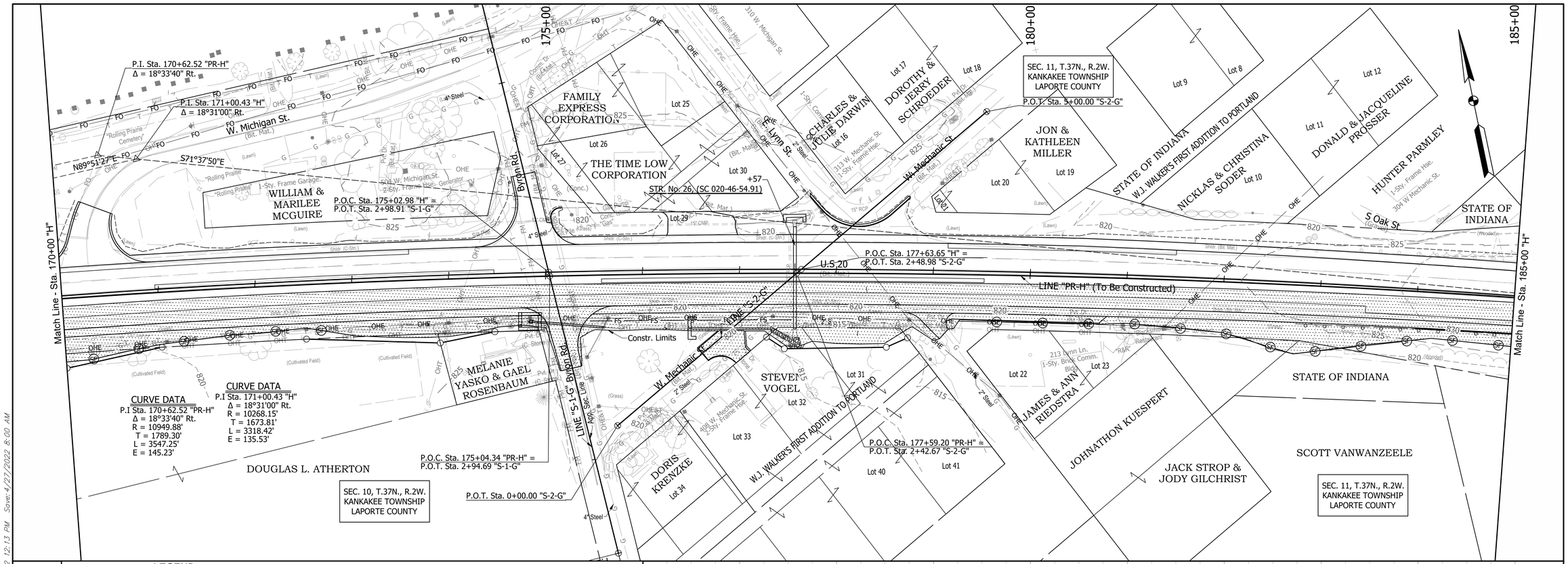
EROSION CONTROL PLANS
PHASE 3

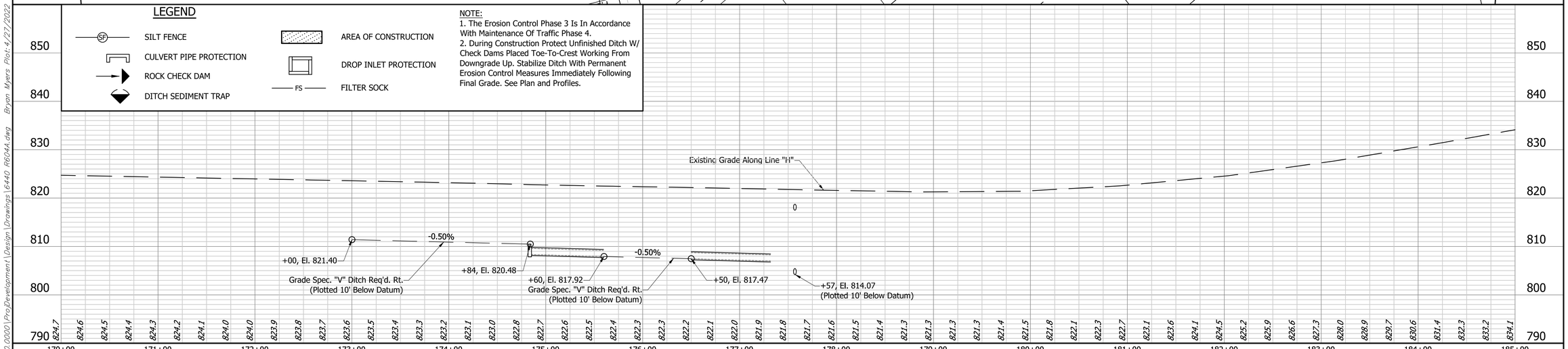
HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	109 OF 229
CONTRACT	PROJECT
R-41437	1702992

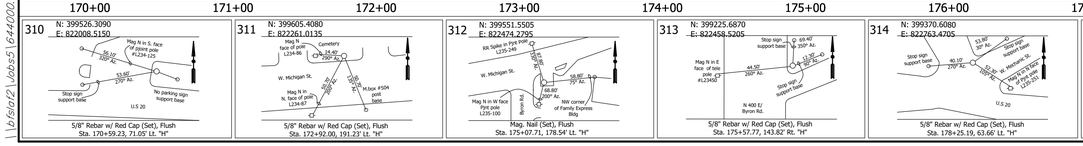
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PRELIMINARY PLANS







RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

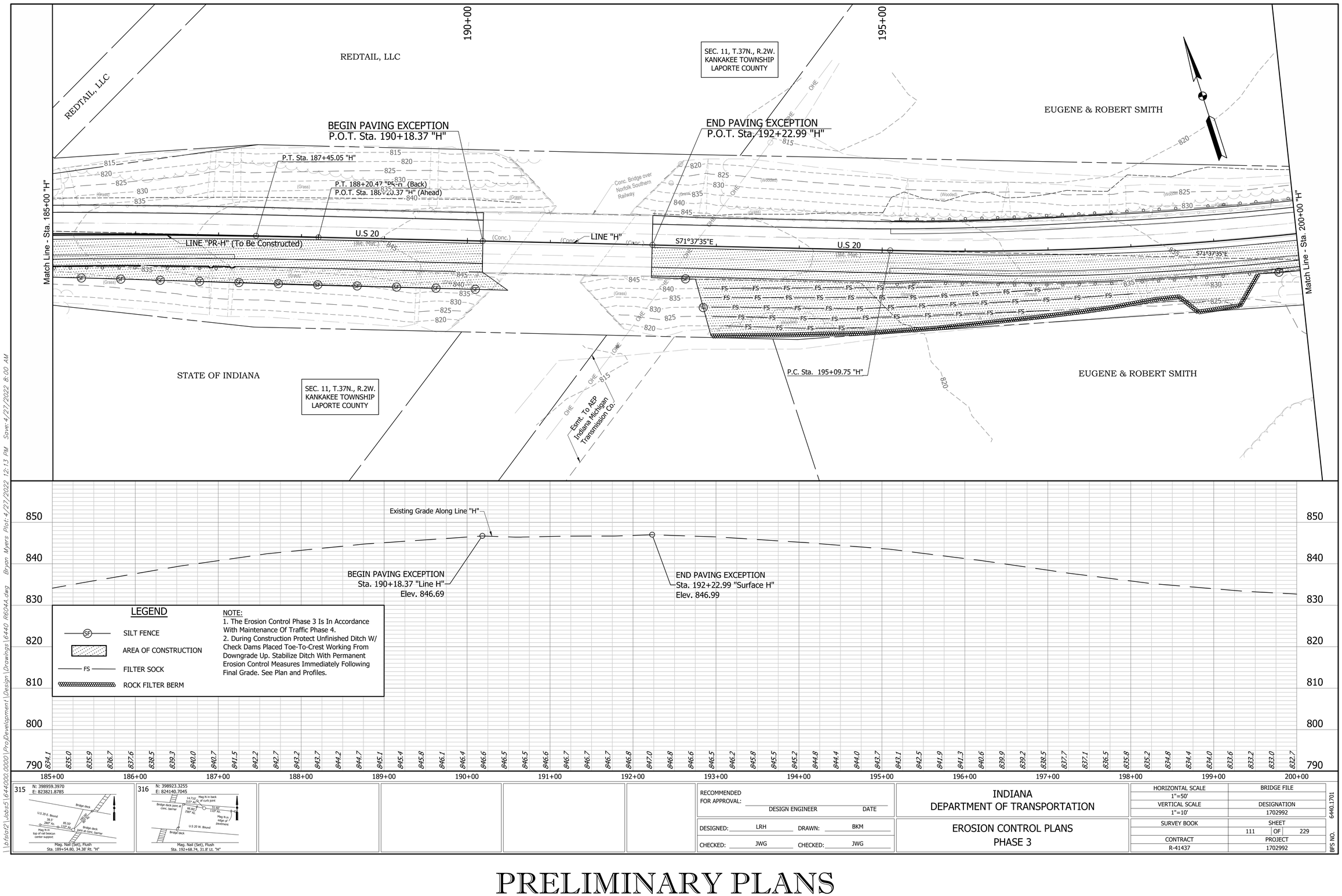
EROSION CONTROL PLANS PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	110 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



315 N: 398959.3970 E: 823821.8785

316 N: 398923.3255 E: 824140.7045

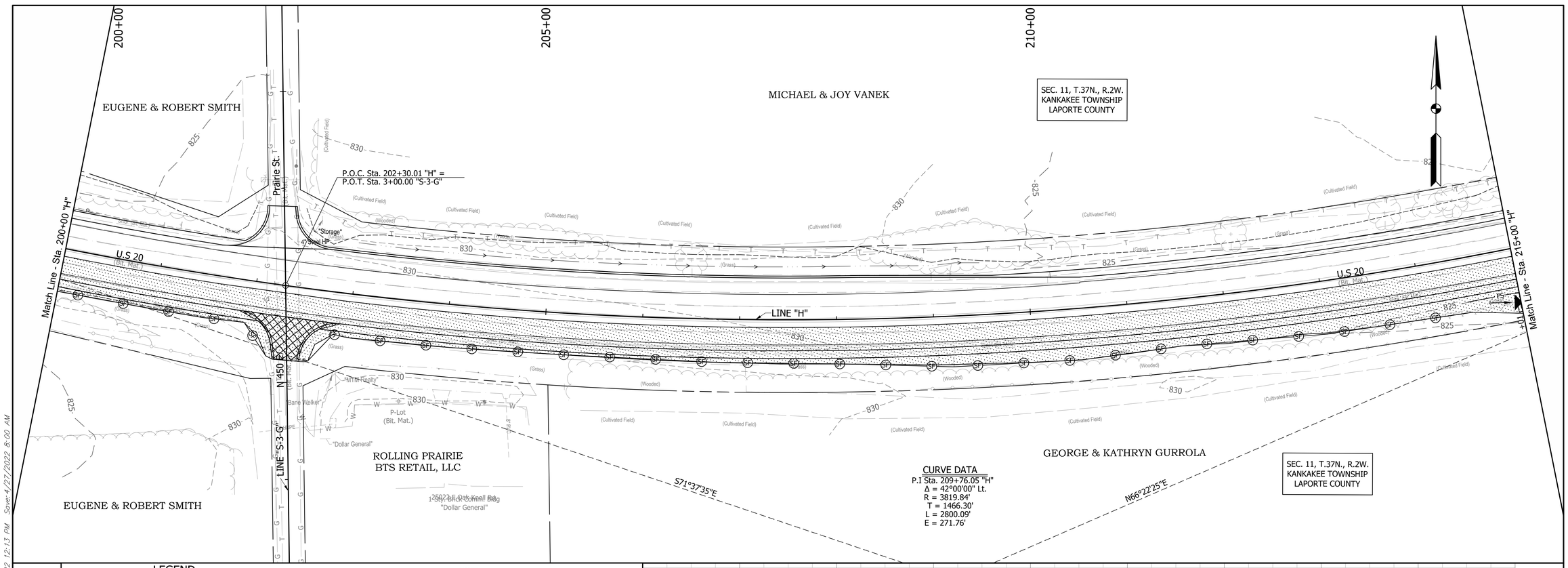
RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE	INDIANA DEPARTMENT OF TRANSPORTATION
DESIGNED: LRH DRAWN: BKM CHECKED: JWG CHECKED: JWG	EROSION CONTROL PLANS PHASE 3

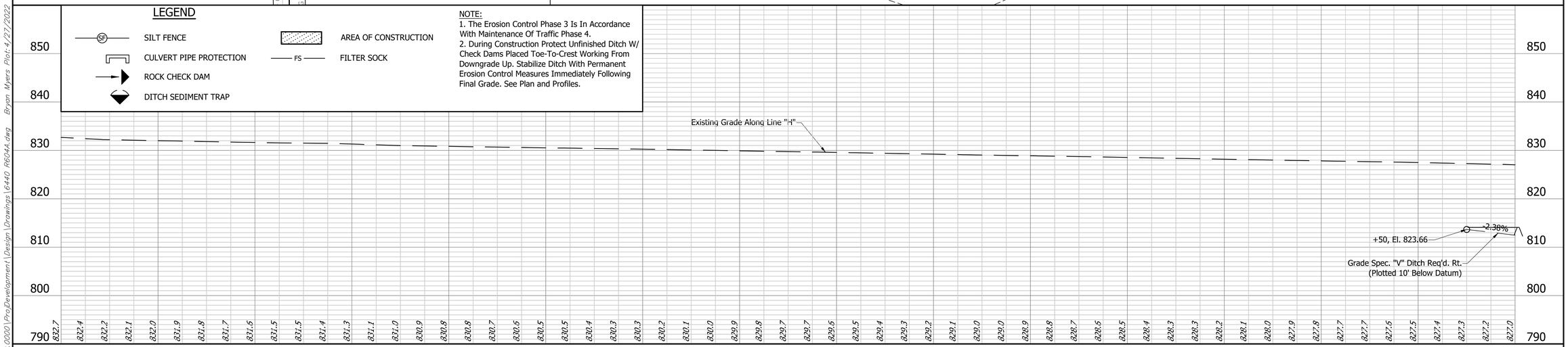
HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	111 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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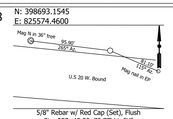


317 N: 398595.4365 E: 825083.4210



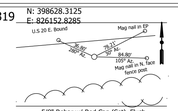
Mag. Nail (Set), Flush
Sta. 202+60.49, 56.77' Rt. "H"

318 N: 398693.1545 E: 825574.4600



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 207+45.93, 70.77' Lt. "H"

319 N: 398628.3125 E: 826152.8285



5/8" Rebar w/ Red Cap (Set), Flush
Sta. 213+20.37, 39.33' Rt. "H"

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DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

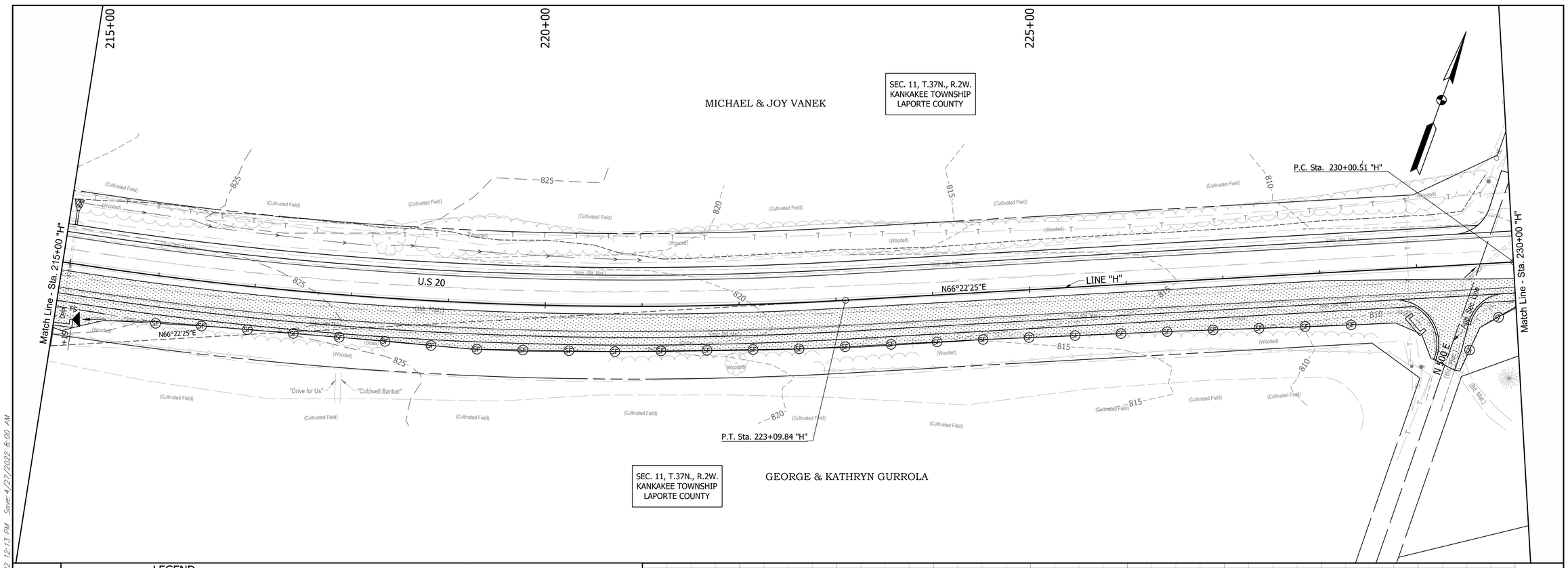
EROSION CONTROL PLANS
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	112 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



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PRELIMINARY PLANS

GRIMM PROPERTIES, LLC

SEC. 12, T.37N., R.2W.
WILLS TOWNSHIP
LAPORTE COUNTY

CURVE DATA
P.I Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.
R = 6388.00'
T = 500.77'
L = 999.50'
E = 19.60'

JEFFREY & JENNIFER BALTES

230+00

235+00

240+00

App. Sec Line

N 500 E

OHE

Match Line - Sta. 230+00 "H"

P.I. Sta. 235+01.28 "H"
Δ = 8°57'53" Rt.

P.O.T. Sta. 240+00.00 "H"

U.S 20
(Bit. Mat.)

N66°22'25"E

N75°20'19"E

Spoil Pile

805

810

(Wooded)

Shldr. (Bit. Mat.)

END PROJECT
P.O.C. Sta. 236+22.20 "H"

CITIZENS BANK OF MICHIGAN CITY, IN

SEC. 12, T.37N., R.2W.
WILLS TOWNSHIP
LAPORTE COUNTY

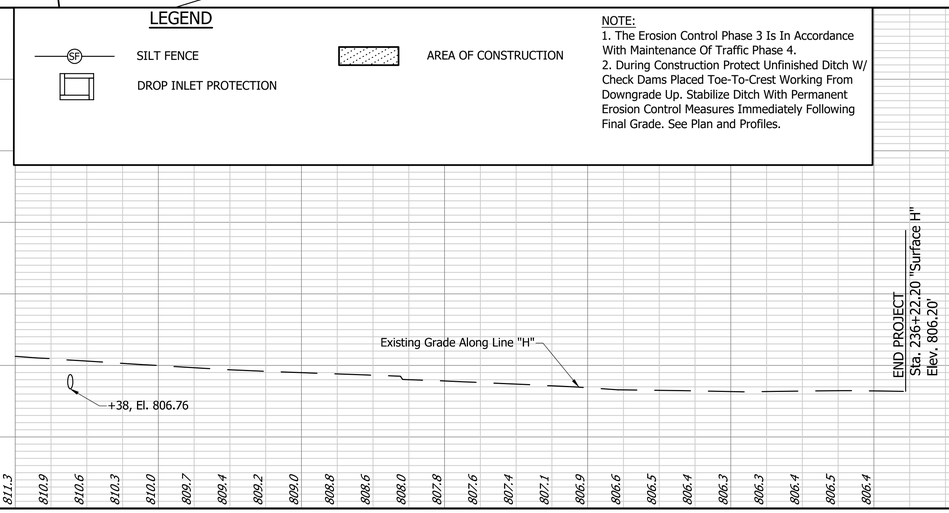
LEGEND

SF — SILT FENCE

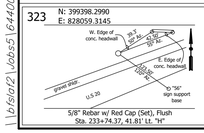
DROP INLET PROTECTION

AREA OF CONSTRUCTION

NOTE:
1. The Erosion Control Phase 3 Is In Accordance With Maintenance Of Traffic Phase 4.
2. During Construction Protect Unfinished Ditch W/ Check Dams Placed Toe-To-Crest Working From Downgrade Up. Stabilize Ditch With Permanent Erosion Control Measures Immediately Following Final Grade. See Plan and Profiles.



323
N: 399398.2990
E: 828059.3145



RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: LRH DRAWN: BKM

CHECKED: JWG CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
1"=50'	
VERTICAL SCALE	DESIGNATION
1"=10'	1702992
SURVEY BOOK	SHEET
	114 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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Construction Stormwater General Permit (CSGP) Checklist - Section A: Construction Plan Elements

A-1 Index Of The Location Of Required Plan Elements In The Construction Plan
See The Next Sheet. Plan Elements A2-A31, B1-B15, & C1-C6 Have Also Been Addressed On This Sheet And Are As Follows:

A-2 A Vicinity Map Depicting The Project Site Location In Relation To Recognizable Local Landmarks, Towns, And Major Roads
See Title Sheet.

A-3 Narrative Of The Nature And Purpose Of The Project
The Purpose Of The Project Is Making Improvements To US 20, Adding a Two-Way Left Turn Lane and Widening Shoulders.

A-4 Latitude And Longitude To The Nearest Fifteen (15) Seconds
(Approximate) Latitude: 41.6750, Longitude: -86.6458.

A-5 Legal Description Of The Project Site
Sections 10 & 11; Township 37N; Range 2W; From 4.8 Miles East Of SR 39 (CR 300 E) To 7.2 Miles East Of SR 39 (CR 500 E).

A-6 11x17 Inch Plat With Building, Lots, Boundaries, Road Layout Names
See Plat No. 1 Sheets.

A-7 Boundaries Of The One Hundred (100) Year Floodplains, Floodway Fringes, And Floodways
See The Attached Flood Insurance Rate Map.

A-8 Land Use Of All Adjacent Properties
The Land Use Within, And Adjacent To, The Project Limits Mostly Consists Of Residential Development, Farmland And Forested.

A-9 Identification Of U.S. EPA Approved Or Established Total Maximum Daily Load (TMDL)

TMDL Name	TMDL Pollutant(s)
Kankakee/Iroquois River Watershed	Escherichia Coli (E. Coli)

A-10 Name(s) Of Receiving Water(s)
Stormwater Will Ultimately Discharge To The Little Kankakee River & Clear Lake.

A-11 Identification Of Discharges To A Water On The Current 303d List Of Impaired Waters And The Pollutant(s) For Which It Is Impaired

Receiving Water On 303d List	Category	Pollutant(s)
Little Kankakee River	5A	Escherichia Coli (E. Coli)
Collins Ditch	5A	Escherichia Coli (E. Coli)
Clear Lake	5B	PCBS

A-12 Soils Map Of The Predominant Soil Types
See The Attached Soils Map & Erosion Control Sheets.

ChC	Chelsea Fine Sand, 6 To 12 Percent Slopes	0.0%
CoA	Coupee Silt Loam, 0 To 2 Percent Slopes	1.6%
CoB	Coupee Silt Loam, 2 To 6 Percent Slopes	2.3%
EsA	Elston Loam, 0 To 2 Percent Slopes	15.3%
EsB	Elston Loam, 2 To 6 Percent Slopes	21.6%
TcA	Tracy Sandy Loam, 0 to 2 Percent Slopes	6.7%
TcB	Tracy Sandy Loam, 2 To 6 Percent Slopes	37.9%
TcC2	Tracy Sandy Loam, 6 To 12 Percent Slopes, Moderately Eroded	2.4%
Tr	Troxel Silt Loam	9.9%
Ua	Udorthents, Loamy	1.9%
Wh	Washtenaw Silt Loam	0.4%

A-13 Identification And Location Of All Known Wetlands, Lakes And Watercourses On Or Adjacent To The Project Site
N/A.

A-14 Identification And Status Of Any Other State Or Federal Water Quality Permits Or Authorizations That Are Required For Construction Activities And The Expected Timeline If The Permits Have Not Been Obtained
IDEM Section 401 WQC Regional General Permit
USACE Section 404 Regional General Permit

A-15 Identification And Delineation Of Existing Cover, Including Natural Buffers
The Project Is Located Mostly On Grassy Areas, Cultivated Crops And Woods.

A-16 Existing Topography At A Contour Interval Appropriate To Indicate Drainage Patterns
See The Plan & Profile, Erosion Control, & Cross Section Sheets.

A-17 Location(s) Of Where Run-Off Enters The Project Site
See The Plan & Profile & Cross Section Sheets.

A-18 Location(s) Of Where Run-Off Discharges From The Project Site Prior To Land Disturbance
See The Plan & Profile & Cross Section Sheets.

A-19 Location Of All Existing Structures On The Project Site
See The Plan & Profile Sheets.

A-20 Location, Size, And Dimensions Of Features, Such As Existing Permanent Retention Or Detention Facilities, Including Manmade Wetlands, Designed For The Purpose Of Stormwater Management
N/A.

A-21 Locations Where Stormwater May Be Directly Discharged Into Ground Water, Such As Abandoned Wells, Sinkholes, Or Karst Features
Potential Locations For Groundwater Infiltration Include Roadside Ditches.

A-22 Size Of The Project Area Expressed In Acres
35.78 Acres.

CSGP Checklist - Section A: (Continued)

A-23 Total Expected Land Disturbance Expressed In Acres
21.82 Acres

A-24 Proposed Final Topography
Refer To The Plan & Profile & Cross Section Sheets For Final Topography.

A-25 Locations And Approximate Boundaries Of All Disturbed Areas
See The Plan & Profile Sheets For Construction Limits.

A-26 Location, Size, And Dimension Of All Stormwater Drainage Systems, Such As Culverts, Storm Sewers, And Conveyance Channels

Location	Dimensions
113+78 "PR-H"	36" Diameter Culvert
130+50 "PR-H"	36" Diameter Culvert
154+47 "PR-H"	36" Diameter Culvert
177+57 "PR-H"	36" Diameter Culvert
215+05 "H"	36" Diameter Culvert
234+21 "H"	24" Diameter Median Drain

See The Plan & Profile Sheets.

A-27 Locations Of Specific Points Where Stormwater And Non-Stormwater Discharges Will Leave The Project Site
See The Plan & Profile And Cross Section Sheets.

A-28 Location Of All Proposed Site Improvements, Including Roads, Utilities, Lot Delineation And Identification, Proposed Structures, And Common Areas
Improvements Shall Be Contained Within The Construction Limits As Shown On The Plan & Profile Sheets.

A-29 Location of All On-Site And Off-Site Soil Stockpiles And Borrow Areas
Proposed Borrow Or Disposal Sites Shall Be Identified By The Contractor Before The Material Is Excavated Or Disposed Of Within Or Outside The R/W in Accordance w/Section 203.08, 203.09, & 212. The Contractor Shall Comply w/Section 108.04 Of The Indiana Department Of Transportation (INDOT) Standard Specifications.

A-30 Construction Support Activities That Are Expected To Be Part Of The Project
Construction Support Activities Including, But Not Limited To, Staging Areas And Material Storage Areas Are Expected To Be Part Of This Project. The Location Of Such Areas Are To Be Determined By The Engineer.

A-31 Location Of Any In-Stream Activities That Are Planned For The Project Including, But Not Limited To Stream Crossings And Pump Arounds
N/A.

CSGP Checklist - Section B: Stormwater Pollution Prevention Plan - Erosion And Sediment Control/Project Site Management

B-1 Description Of Potential Pollutant Generating Sources And Pollutants Associated With Construction Activities
See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Notes.

B-2 Stable Construction Entrance Locations And Specifications (At All Points Of Ingress And Egress)
The Contractor Shall Utilize Existing Streets And Drives As Much As Possible For Construction Ingress And Egress. The Contractor Shall Keep Public Roads And Private Drives Clear And Remove All Dust, Dirt, And Debris As A Result Of Construction Activities. Temporary Construction Entrances Shall Meet The Requirements Of The Construction Gravel Entrance As Shown On The Erosion Control Details And INDOT Standard Drawing E 205-TECD-12.

B-3 Specifications For Temporary And Permanent Stabilization
Seeding And Stabilization Of Disturbed Areas Shall Be Implemented For All Disturbed Land Left Inactive For A Period Of Seven (7) Days. Permanent Seeding And Stabilization Shall Be Implemented For All Disturbed Land And Shall Occur Once Final Grading Has Been Completed. See The Plan & Profile Sheets & Erosion Control Details. See Item B-12 For Sequencing Information, And The Erosion Control Notes For Application Information For Seeding And Mulching.

B-4 Sediment Control Measures For Concentrated Flow Areas
Sediment Control Will Be Handled Via Ditch Sodding, Riprap, And Temporary Sediment Traps. See The Erosion Control Sheets And INDOT Standard Drawings E 205-TECD-09 and E 205-TECD-11.

B-5 Sediment Control Measures For Sheet Flow Areas
Sediment Control Will Be Handled Via Silt Fence And By Temporary & Permanent Seeding And Stabilization. See The Plan & Profile, Erosion Control Sheets And INDOT Standard Drawing E 205-TECD-11.

B-6 Run-off Control Measures (e.g., Diversions, Rock Check Dams, Swales, etc.)
Runoff Will Be Controlled By Rock Check Dams, Silt Fence, And Temporary Seeding And Stabilization. See The Erosion Control Sheets and INDOT Standard Drawings E 205-TECD-06 & 11.

B-7 Stormwater Outlet Protection Locations And Specifications
Stormwater Outlet Protection Will Be Handled Via Riprap, Rock Filter Berms, Or Rock Check Dams. See The Erosion Control Sheets & Erosion Control Details.

B-8 Grade Stabilization Structure Locations And Specifications
A Grade Stabilization Will Be Required For The Project. See The Erosion Control Sheets & Erosion Control Details.

B-9 Dewatering Applications And Management Methods (Basin Outlet Measures, Flocculants, etc.)
N/A.

B-10 Measures Utilized For Work Within Waterbodies (Crossings, Coffer Dams, etc.)
N/A.

B-11 Maintenance Guidelines For Each Proposed Temporary Stormwater Quality Measure
The Contractor Shall Maintain All Water Quality Measures During Construction To Prevent Any Blockages From Accumulated Sediment. Monitoring Of The Protective Measures Shall Be Done On A Weekly Basis And Again Within 24 Hours Of Every Half-Inch Rain Event.

CSGP Checklist - Section B: (Continued)

B-11 (Continued)
Maintenance Shall Include A Written Record Of Each Inspection That Is Made Within 24 Hours Of A Rain Event And Weekly. The Written Record Shall Be Made Available Upon Request.

Temporary Construction Entrance:
Inspect Weekly, Within 24 Hours Of Every Half-Inch Rain Event, And After Heavy Use.
A. Reshape Pad As Needed.
B. Top Dress Pad As Needed.
C. Remove Immediately Any Mud And Sediment Tracked Or Washed Onto The Street Using Brushing Or Sweeping. Flush Area Only If Runoff Will Be Flowing Through A Sediment Trap. Repair Any Damaged Pavement Immediately.

Silt Fence: (Per INDOT Standard Specification 205.07(b))
A. Replace If Torn, Starts To Degrade, Or Becomes Ineffective In Anyway.
B. Remove Sediment When It Reaches Half Of The Fence Height Taking Care Not To Undermine.

Rock Check Dam: (Per INDOT Standard Specification 205.07(e))
A. Inspect Check Dams And The Channel After Each Storm Event, And Repair Any Damage Immediately. If Significant Erosion Occurs Between Dams, Install A Riprap Liner In That Portion Of The Channel.
B. Remove Sediment Accumulated Behind Each Dam As Needed To Maintain Channel Capacity, To Allow Drainage Through The Dam, And To Prevent Large Flows From Displacing Sediment.
C. Add Aggregate To The Dams As Needed To Maintain Design Height And Cross Section.
D. When The Dams Are No Longer Needed, Remove The Aggregate And Stabilize Channel Using An Erosion Resistant Lining, If Necessary.

Riprap:
A. Check For And Repair Any Adjacent Erosion.
B. Repair Washed Out Areas.

Erosion Control Blanket:
A. Repack And Reseed As Needed.
B. Reattach And Anchor As Needed.

Temporary Seeding:
A. Monitor Until It Reaches 70% Coverage.
B. Reseed As Needed.
C. Install Additional Erosion Control To Help Establish Cover.

Temporary Sediment Traps: (Per INDOT Standard Specification 205.07(f))
A. Repair Slope Erosion And Piping Holes As Required Following Each Rain Event.
B. Remove Sediment Accumulation Once It Reaches 1/2 Design Volume.
C. The Contractor Shall Replace The Coarse Aggregate Filter Stone If The Sediment Pool Does Not Drain Within 72 Hours Following A Rain Event.

Rock Filter Berm: (Per INDOT Standard Specification 205.07(c))
A. Accumulated Sediment Shall Be Removed Once It Reaches 1/4 Height Of The Filter Berm.
B. The Filter Berm Shall Be Inspected To Ensure That It Is Holding Its Shape And Allowing Adequate Flow.
C. Eroded And Damaged Areas Shall Be Repaired.

Filter Sock: (Per INDOT Standard Specification 205.07(a))
A. Accumulated Sediment Shall Be Removed Once It Reaches 1/2 Of The Height Of The Filter Sock When Used For Perimeter Protection And 1/3 Height When Used For Inlet Protection.
B. The Filter Sock Shall Be Inspected To Ensure That It Is Holding Its Shape And Allowing Adequate Flow.
C. Eroded And Damaged Areas Shall Be Repaired.

Check And Maintain Any Additional Erosion Control Measures As Needed In Accordance With INDOT Standard Specification 205.03.

B-12 Planned Construction Sequence Describing Stormwater Quality Measure Implementation Relative To Land Disturbing Activities
Preconstruction:
A. Notify Project Owner
B. Contact The Indiana Underground Plant Protection Systems, Inc. To Verify The Location Of Any And All Underground Utilities.
C. Install Temporary Construction Entrances At All Access Points.
D. Exhibit CSGP Information At The Job Site. Contractor Shall Designate A Person Responsible For On-Site Inspections And For Providing This Stormwater Pollution Prevention Plan (SWP3) On-Site.
E. Install Silt Fence.
Construction:
Erosion Control Plans Have Been Phased To Coincide With The Maintenance Of Traffic Plans.
Phase 1:
A. Establish Construction Entrances.
B. Contractor Shall Construct Concrete Washouts. Contractor Shall Coordinate Location Of Concrete Washouts At The Direction Of The Engineer.
C. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Rock Check Dams, and Riprap.
D. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
E. Complete Clearing Of Right Of Way For Utility Relocations And For Proposed Roadway Improvements.
F. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.
G. Install Culverts Using Trenchless Installation Methods.
H. Grade Existing Ditches To Drain.
I. Install Sediment Control Measures Prior To Discharge Points.

CSGP Checklist - Section B: (Continued)

B-12 (Continued)
Phase 2:
A. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required On The North Half Of US 20 Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Rock Check Dams, Erosion Control Blankets, and Riprap.
B. Begin Earthwork Operations.
C. Install Temporary Sediment Traps.
D. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
E. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.
F. Extend Existing Drainage Structures On The North Half Of US 20.
G. Riprap Culvert Discharge Locations.
H. Complete Pavement Widening, Pavement Patching, Guardrail Installation And HMA Wedge And Level On The North Half Of US 20.
I. Finish Grading.
J. Install Permanent Erosion Control Measures And Remove Temporary Erosion Control Measures Only After The Minimum Vegetative Growth Has Occurred On The North Half Of US 20.
Phase 3:
A. Install Erosion Control Measures As Each New Item Of The Project Is Installed As Required On The South Half Of US 20 Which May Include But Is Not Limited To Culvert Pipe Protection, Silt Fence, Rock Check Dams, Erosion Control Blankets, and Riprap.
B. Begin Earthwork Operations.
C. The Contractor Shall Coordinate With The Engineer On The Location Of The Following Construction Areas Prior To Implementation: Staging Areas, Boring/Receiving Pits, Material Storage Areas, & Fueling Stations.
D. Temporary Seed And Stabilize Disturbed Areas If To Be Disturbed More Than Seven (7) Days.
E. Extend Existing Drainage Structures On The South Half Of US 20.
F. Riprap Culvert Discharge Locations.
G. Complete Pavement Widening, Pavement Patching, Guardrail Installation And HMA Wedge And Level On The South Half Of US 20.
H. Finish Grading.
I. Install Permanent Erosion Control Measures And Remove Temporary Erosion Control Measures Only After The Minimum Vegetative Growth Has Occurred On The South Half Of US 20.

B-13 Provisions For Erosion And Sediment Control On Individual Building Lots Regulated Under This Project
N/A.

B-14 Material Handling And Spill Response Plan Meeting The Requirements In 327 IAC 2-6.1
Vehicle And Equipment Maintenance: Onsite Vehicle And Equipment Maintenance Should Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Maintenance And Repair. If Maintenance Must Occur Onsite, The Area Where Repairs Are To Be Made Must Be Located Away From Drainage Courses. Drip Pans And/Or Absorbent Pads Should Be Used During Vehicle And Equipment Maintenance Work That Involves Fluids, Unless The Maintenance Work Is Performed Over An Impermeable Surface In A Dedicated Maintenance Area. Inspect Onsite Vehicles And Equipment Daily At Startup For Leaks, And Repair Immediately. Properly Dispose Of Used Oils, Fluids, Lubricants And Spill Cleanup Materials. Do Not Place Used Oil In A Dumpster Or Pour Into A Storm Drain Or Watercourse.

Vehicle Fueling: Onsite Vehicle And Equipment Fueling Should Only Be Used Where It Is Impractical To Send Vehicles And Equipment Offsite For Fueling. Drip Pans And Absorbent Pads Should Be Used During Vehicle And Equipment Fueling, Unless The Fueling Is Performed Over An Impermeable Surface In A Dedicated Fueling Area. Nozzles Used In Vehicle And Equipment Fueling Should Be Equipped With An Automatic Shutoff To Control Drips. Fueling Operations Should Not Be Left Unattended. Federal, State, And Local Requirements Should Be Observed For Any Stationary Above Ground Storage Tanks.

Alert Procedure For Spills: In The Event Of A Material Spill (Fuel, Oil, Fluids, Lubricants, Etc.), Barricade The Area Allowing No Vehicles To Enter Or Leave The Spill Zone. Notify The Indiana Department Of Environmental Management (IDEM), Office Of Emergency Response, By Calling The Appropriate Phone Number: Office 317-233-7745 Or Toll Free: 800-233-7745. Also, The National Response Center At 800-424-8802 And Provide The Following Information: Time Of Observation Of The Spill, Location Of The Spill, Identify Material Spilled, Probable Time And Source Of Spill, Weather Conditions, Personnel At Scene And Action Initiated By Personnel. Notify The Local Fire Department And Police Department. Coordinate And Monitor Cleanup Until The Situation Has Been Stabilized And The Spill Has Been Eliminated.

B-15 Material Handling And Storage Procedures Associated With Construction Activity Describing The Management And Disposal Of Construction Products And Waste, Including Concrete And Cementitous Washout Areas And Management Measures
Debris Collection: To Prevent Clogging Of The Storm Drainage System, Litter And Debris Removal From Drainage Grates, Trash, Rocks, And Ditch Lines Should Be A Priority. Construction Debris And Waste Should Be Removed From The Site Biweekly Or More Frequently As Needed. Construction Material Visible To The Public Should Be Stored In An Orderly Manner. Stormwater Runoff Should Be Prevented From Contacting Stored Solid Waste.

Concrete Washout: Per INDOT Standard Specifications 205.03(e), Perform Washout Of Concrete Trucks Offsite Or In Designated Areas Only. Straw Bale Washout Pits Will Not Be Allowed. Concrete Washout Wastewater May Either Be Recycled Back Into The Truck, Washed Out Into An Adequately Sized And Lined Roll Off Container Or Lined In-Ground Pit, An Approved Manufactured Product, Or Taken Back To The Batch Plant. Lining Shall Consist Of A Minimum Of One Sheet Of 10 Mil Plastic, Be Continuous With No Over Lapping, And Shall Be Free Of Breaks.

For On Site Washout: Per INDOT Standard Specifications 205.03(e), Locate Washout Area At Least Fifty (50) Feet From Storm Drains, Open Ditches Or Bodies Of Water; Do Not Allow Runoff From This Area By Constructing A Temporary Berm Or Holding Area Large Enough For Liquid And Solid Waste; Wash Out Wastes Into The Designated Area Where The Concrete Can Set And Be Broken Up And Then Disposed Of Properly.

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM
CHECKED: CWW CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	115 OF 229
CONTRACT	PROJECT
R-41437	1702992

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PRELIMINARY PLANS

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CSGP Checklist - Section C:
Stormwater Pollution Prevention Plan - Post-Construction

C-1 Description Of Potential Pollutants And Their Sources Associated With The Proposed Land Use
See The Potential Storm Water Pollutants And Spill Prevention Handling Table Located On The Erosion Control Details.

C-2 Description Of Proposed Post Construction Stormwater Quality Measures.
Permanent Erosion Control Measure Will Be Used As Shown On The Plan & Profile And Erosion Control Sheets For Post-Construction Stormwater Quality Management. Seed Will Be Used In All Disturbed Areas For Permanent Stormwater Quality Measures. Geotextiles Will Be Utilized Under Riprap At All Locations In Accordance w/INDOT Standard Specifications 616.11. Riprap Splash Pads Shall Be Constructed At Pipe Outlets As Shown On The Plan & Profile And Erosion Control Sheets In Accordance With 616.05.

Location	Pre-Construction (10 yr.)	Post-Construction (10 yr.)
255+00 to 284+00 "PR-D"	27.93 cfs	29.92 cfs
284+00 to 290+00 "PR-D"	6.05 cfs	7.23 cfs
290+00 to 315+00 "PR-D"	25.13 cfs	27.53 cfs
315+00 to 359+00 "D"	38.12 cfs	41.87 cfs
359+00 to 367+00 "D"	11.29 cfs	12.10 cfs
367+00 to 411+00 "D"	34.66 cfs	37.53 cfs

C-3 Location, Dimensions, Detail Specifications, And Construction Details Of All Post-Construction Stomwater Quality And Stormwater Management Measures Listed In C-2 Above
See The Erosion Control Sheets & Erosion Control Details.

C-4 Sequence Describing Stormwater Quality Measure Implementation.
All Disturbed Ground Will Be Seeded And Stabilized Immediately After Grading Or When The Project Is Substantially Complete. Riprap Splash Pads And Geotextiles Shall Be Constructed As Soon As Outlet Structures Are Installed. See The Plan & Profile, Erosion Control & Erosion Control Detail Sheets.

C-5 Description Of Maintenance Guidelines For Post Construction Stormwater Quality Measures.
The Contractor Shall Ensure That Revegetated Areas Become Fully Established And Shall Water, Re-Seed And Re-Stabilize As Necessary. The Owners Shall Clean Up Trash And Shall Perform Maintenance On The Storm Sewer System At Regularly Scheduled Intervals.

C-6 Entity That Will Be Responsible For Operation And Maintenance Of The Post-Construction System (If Known)
INDOT LaPorte District.

INDOT STANDARD DRAWING REFERENCES

SF — SILT FENCE
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-11.

CULVERT PIPE PROTECTION
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-02.

ROCK CHECK DAM
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-06.

DITCH SEDIMENT TRAP
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-09 And Detail Shown In Plans.

FS — FILTER SOCK
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-10.

DROP INLET PROTECTION
Installation Shall Be Per INDOT Standard Drawing E 205-TECD-04.

SEDIMENT TRAP TABLE - PHASE 2

STATION	DRAINAGE AREA	STORAGE REQUIRED	STORAGE PROVIDED	SPILLWAY HEIGHT	SEDIMENT TRAP LENGTH	SEDIMENT TRAP WIDTH
LINE "H"	(ACRE)	(CFT.)	(CFT.)	(FT.)	(LFT.)	(LFT.)
114+00	2.31	4,063.00	568.00	2.00	142.00	12.00
130+15	1.32	2,325.00	609.33	2.00	152.33	12.00
130+80	0.25	439.00	104.17	1.00	104.17	6.00
154+20	0.95	1,664.00	286.81	1.50	116.67	9.83

NOTE:
Due To Right-Of-Way And Topographic Restrictions, Many Of The Sediment Traps Were Not Able To Meet The Required Storage Capacity In Accordance With The INDOT Design Manual And IDEM Stormwater Quality Manual. Timely Stabilization Of Disturbed Areas And Implementation Of The Other Erosion And Sediment control Measures Shall Occur To Minimize The Potential For Sediment Discharges From The Project.

EROSION AND SEDIMENT CONTROL PLAN ELEMENTS

ITEM NO.	DESIGNATION	SHEET NO.
A-1	STORMWATER POLLUTION PREVENTION PLAN INDEX	118
A-2	VICINITY MAP	01
A-3	PROJECT NARRATIVE	117
A-4	PROJECT LATITUDE AND LONGITUDE	117
A-5	LEGAL DESCRIPTION	117
A-6	11x17 INCH PLAT SHEETS	07-09
A-7	BOUNDARIES OF 100-YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS	128-129
A-8	LAND USE OF ADJACENT PROPERTIES	117
A-9	IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL	117
A-10	NAME(S) OF RECEIVING WATER(S)	117
A-11	IDENTIFICATION OF DISCHARGES TO WATER ON 303(d) LIST	117
A-12	SOILS MAP	131-136
A-13	IDENTIFICATION AND LOCATION OF ALL KNOW WETLANDS, LAKES AND WATERCOURSES	117
A-14	IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS	117
A-15	IDENTIFICATION AND DELINEATION OF EXISTING COVER	117
A-16	EXISTING SITE TOPOGRAPHY	45-55, 84-120, 246-373
A-17	LOCATION(S) WHERE RUN-OFF ENTERS PROJECT SITE	45-55, 246-373
A-18	LOCATION(S) WHERE RUN-OFF DISCHARGES FROM PROJECT SITE PRIOR TO LAND DISTURBANCE	45-55, 246-373
A-19	LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE	45-55
A-20	EXISTING PERMANENT RETENTION OR DETENTION FACILITIES	117
A-21	LOCATION(S) WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER	117
A-22	SIZE OF THE PROJECT AREA	117
A-23	TOTAL EXPECTED LAND DISTURBANCE	117
A-24	PROPOSED FINAL TOPOGRAPHY	45-55, 246-373
A-25	LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	45-55
A-26	LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS	117
A-27	LOCATIONS OF SPECIFIC POINTS WHERE DISCHARGE WILL LEAVE PROJECT SITE	45-55, 246-373
A-28	LOCATION OF ALL PROPOSED SITE IMPROVEMENTS	45-55, 117
A-29	LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS	117
A-30	CONSTRUCTION SUPPORT ACTIVITIES	117
A-31	LOCATION OF ANY IN-STREAM ACTIVITIES	117
B-1 - B-15	CONSTRUCTION COMPONENT	117
C-1 - C-6	POST-CONSTRUCTION COMPONENT	118

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RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

INDIANA
DEPARTMENT OF TRANSPORTATION

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

EROSION CONTROL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	116 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

EROSION CONTROL NOTES

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

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

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

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

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

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

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

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

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD:
Construct The Temporary Gravel Drive Using 12 Inches Minimum Of INDOT CA No. 2 Washed Stone Over Geotextile. Grade For Positive Drainage.

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

SODDING:
Do Not Install Sod On Hot, Dry Soil, Frozen Soil, Compacted Clay, Loose Sand Or Gravel, Or Pesticide Treated Soil. Ideal Sodding Time Is May 1-June 1, Or September 1-September 30, Although It Can Be Installed As Early As March 15, If Available And Temperatures Are Above 32°F, Or June 1-September 1 If Irrigated.

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

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

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

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

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

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

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

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

EROSION CONTROL NOTES (Con't)

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

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

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

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

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

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

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

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

EROSION CONTROL BLANKET STAPLES:
Use Minimum 0.091 Inch Diameter Steel Wire "U" Shape With Legs 6 Inches In Length With 1 Inch Crown.

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

SEEDS:
40 Percent Kentucky Bluegrass
40 Percent Creeping Red Fescue
20 Percent Annual Rye Grass

FERTILIZER:
Commercial Fertilizer (12-12-12)*

STRAW:
Clean And Free Of Weed Seeds

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

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

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

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

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

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
					Temporary Seeding Dates							
Wheat Or Rye								▨	▨	▨		
Oats			▨	▨	▨							
Annual Rye Grass				▨	▨	■	■	▨				
					Permanent Seeding Dates							
Non-Irrigated*			▨	▨	▨			▨	▨			
Irrigated			▨	▨	▨	▨	▨	▨	▨			
Dormant Seeding**	▨	▨									▨	▨

▨ Irrigation Required

* Seeding Dates May Be Extended 5 Days If Mulch Applied And Planted Late Summer

** Increase Seeding Rate By 50%

NOTES:

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

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

Potential Storm Water Pollutants Material Handling and Spill Prevention

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

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

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

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: DRM

CHECKED: CWW CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

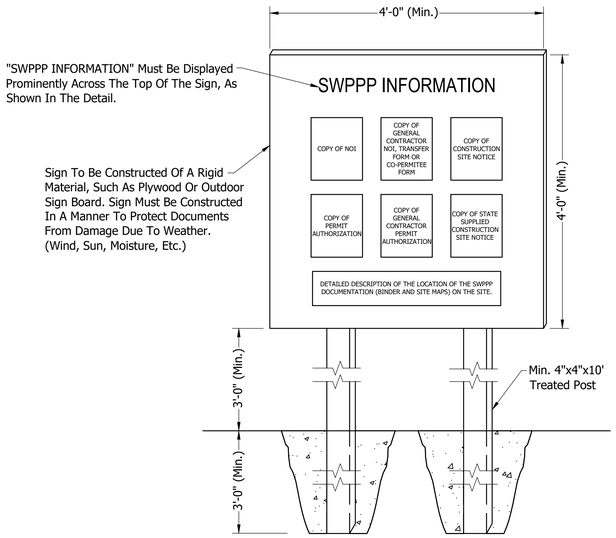
EROSION CONTROL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	117 OF 229
CONTRACT	PROJECT
R-41437	1702992

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PRELIMINARY PLANS



NOTES:

1. The SWPPP Information Sign Must Be Located Near The Construction Entrance Of This Site, Such That It Is Accessible And Viewable By The General Public, But Not Obstructing Views As To Cause A Safety Hazard.

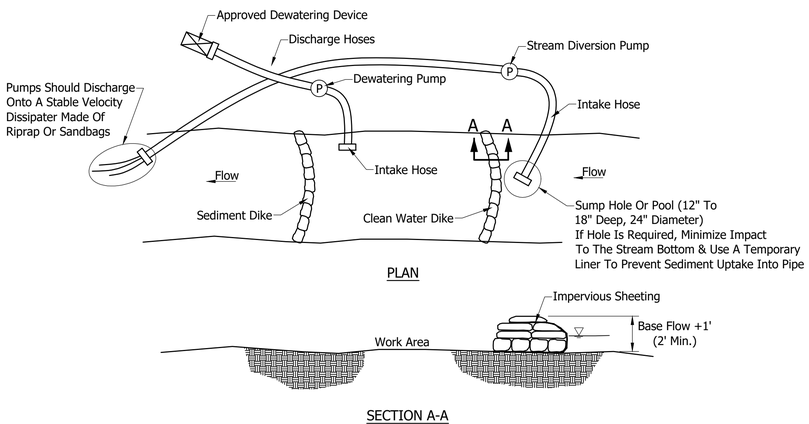
2. All Posted Documents Must Be Maintained In A Clearly Readable Condition At All Times Throughout Construction And Until The Notice-Of-Termination (NOT) Is Filed For The Permit.

3. Contractor Shall Post Other Storm Water And/Or Erosion And Sediment Control Related Permits On The Sign As Required.

4. If Applicable, Sign Shall Be Located Outside Of Public Right-Of-Way And Easements Unless Approved By The MS4 Operator.

SWPPP INFORMATION SIGN DETAIL

NOT TO SCALE

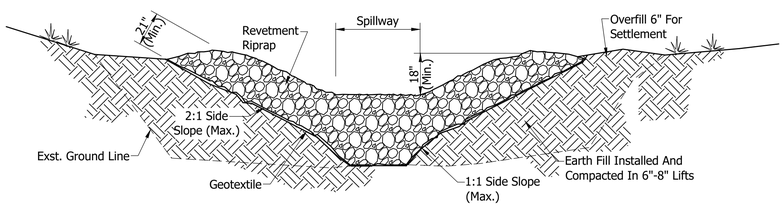


PLAN

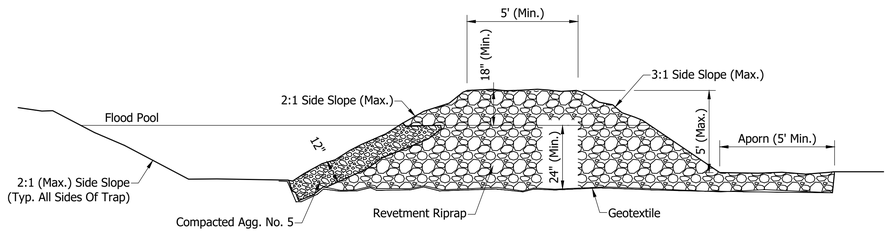
SECTION A-A

TEMPORRY PUMP AROUND DETAIL

NOT TO SCALE



EARTH EMBANKMENT & STONE OUTLET SECTION



SECTION VIEW OF THE STONE OUTLET

Notes:
The Spillway Width Equals Ditch Bottom Width, Minimum 2 Feet.

The Height Of The Spillway Is As Shown On The Erosion Control Notes.

The Length And Width Of The Basin Are As Shown On The Erosion Control Notes (Maximum Drainage Area Is 5 Acres).

See The Indiana Storm Water Quality Manual For Additional Information.

Installation:
Clear, Grub, And Strip All Vegetation And Root Mat From The Embankment Area.

Create Embankment Using Material Free Of Roots, Rocks, Brush, And Debris. Overfill The Embankment 6 Inches To Allow For Settling.

Excavate A Trapezoidal Stone Outlet Section From The Compacted Embankment (Section A-A).

Install Geotextile And Place Specified Stone To The Lines And Grades Shown.

Stabilize The Embankment And Other Disturbed Areas With Seed And Mulch Or Another Suitable Erosion Resistant Cover.

Maintenance:
Inspect Traps Weekly And Following Each Storm Event And Immediately Repair. Check Embankment For Any Erosion And Piping Holes And Repair.

Remove Sediment When It Has Accumulated To One Half The Design Depth. Check Pool Area Side Slopes For Erosion And Repair.

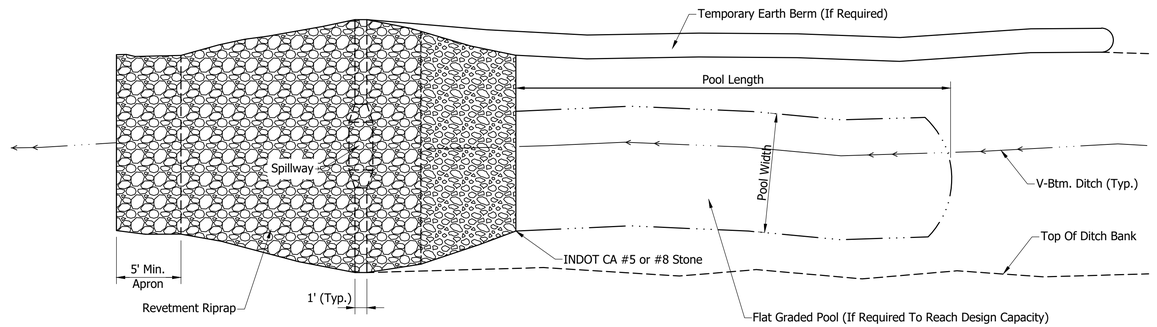
Replace Spillway Gravel Facing If Clogged.

Inspect Vegetation And Reseed Again, If Necessary.

Check The Spillway Depth Periodically To Ensure A Minimum 18 Inch Depth From The Lowest Point Of The Settled Embankment To Highest Point Of The Spillway Crest. Fill Any Low Areas To Maintain The Design Elevation.

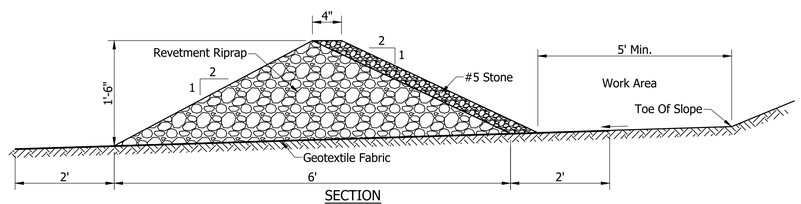
TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE



TEMPORARY SEDIMENT TRAP DETAIL - PLAN VIEW

NOT TO SCALE



SECTION

ROCK FILTER BERM DETAIL

NOT TO SCALE

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

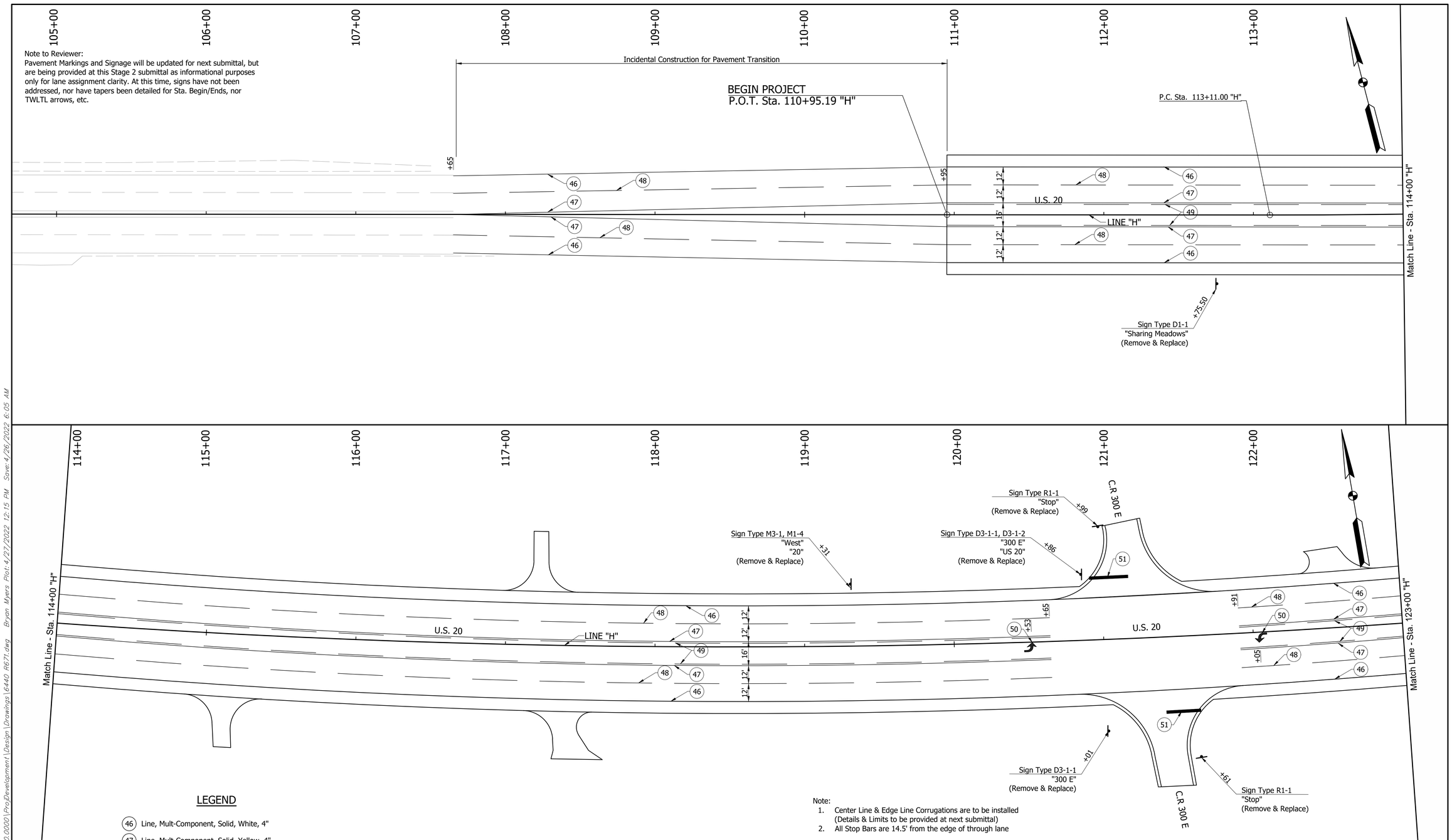
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HORIZONTAL SCALE	BRIDGE FILE
As Shown	
VERTICAL SCALE	DESIGNATION
N/A	1702992
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CONTRACT	PROJECT
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PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (49) Line, Mult-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Proposed Sign

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

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

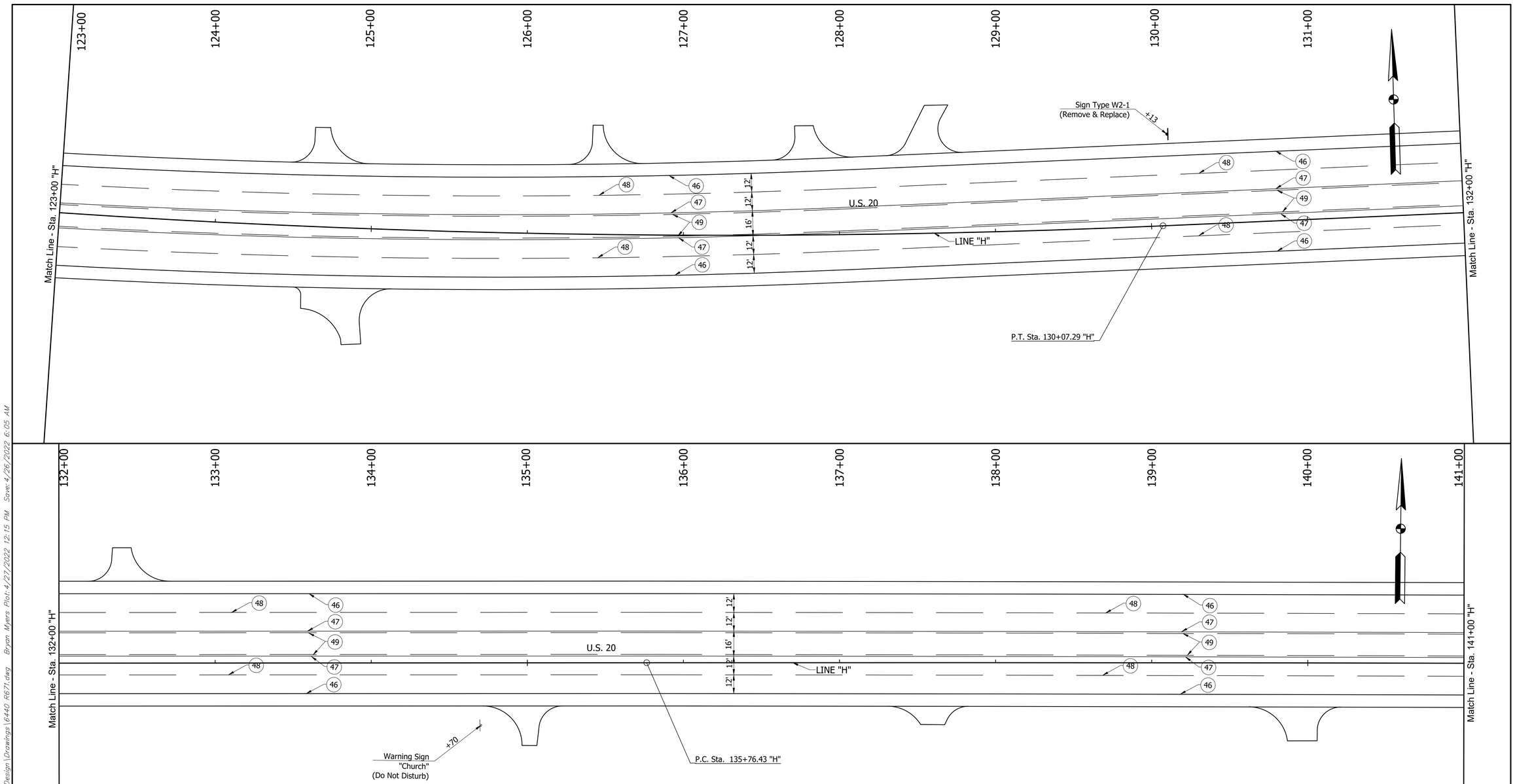
PAVEMENT MARKINGS AND SIGNAGE

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1" = 30'	
VERTICAL SCALE	DESIGNATION
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CONTRACT	PROJECT
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PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (49) Line, Mult-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow

Existing Sign

Proposed Sign

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS | DRAWN: JMT

CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

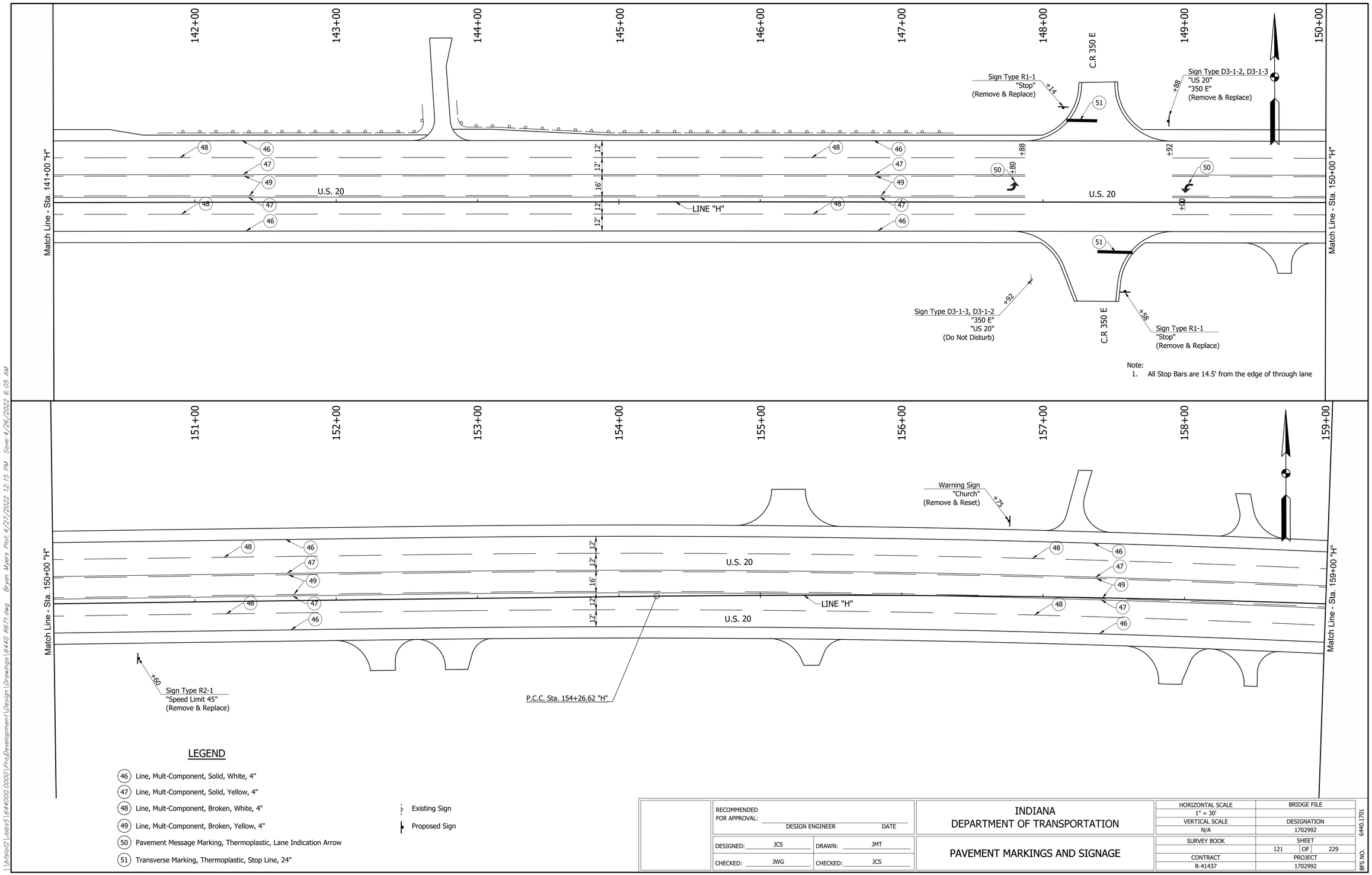
PAVEMENT MARKINGS AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
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PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (49) Line, Mult-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Existing Sign

Proposed Sign

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CHECKED: JWG CHECKED: JCS

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DEPARTMENT OF TRANSPORTATION

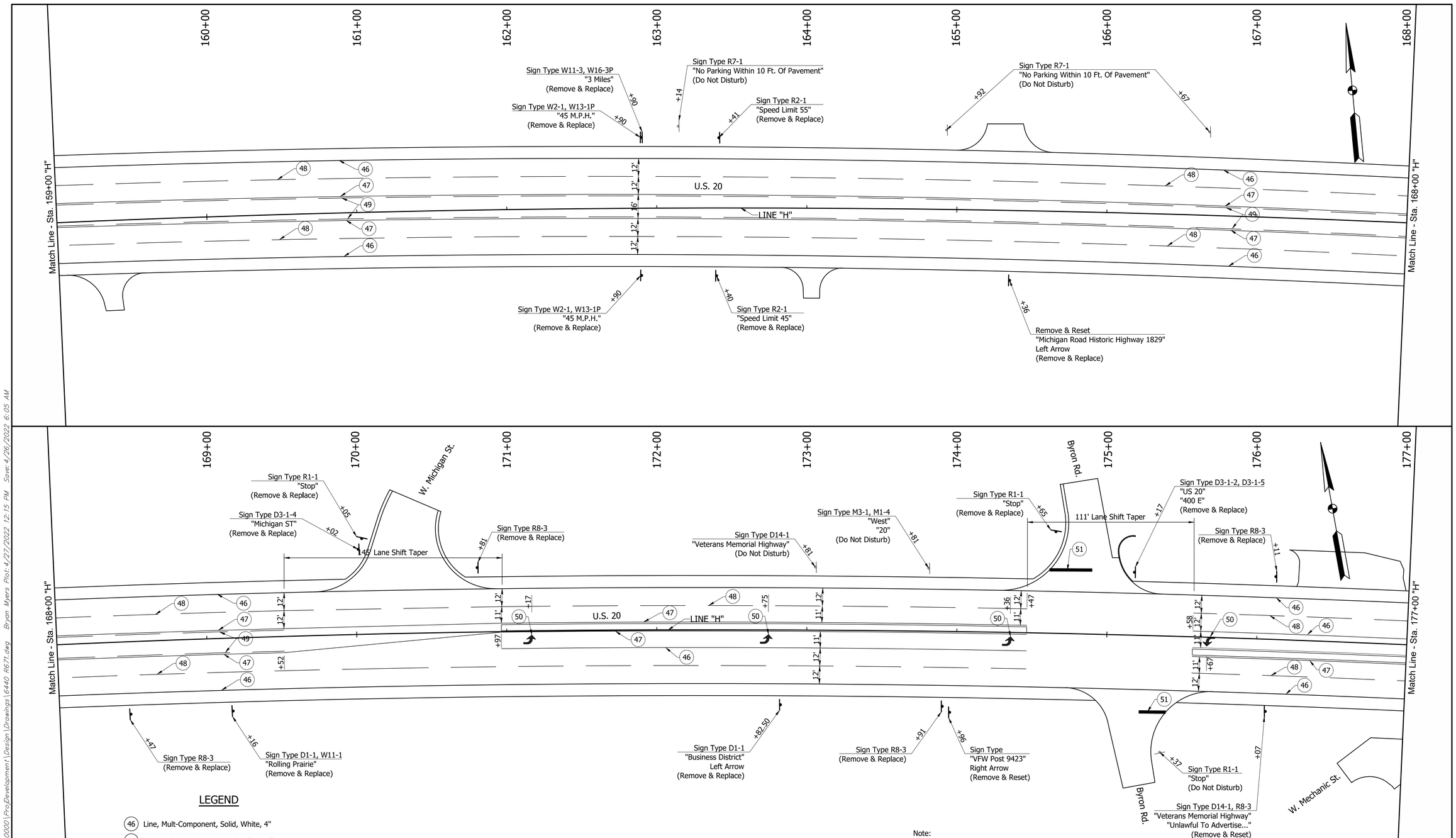
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R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (49) Line, Mult-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Existing Sign

Proposed Sign

Note:
1. All Stop Bars are 14.5' from the edge of through lane

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

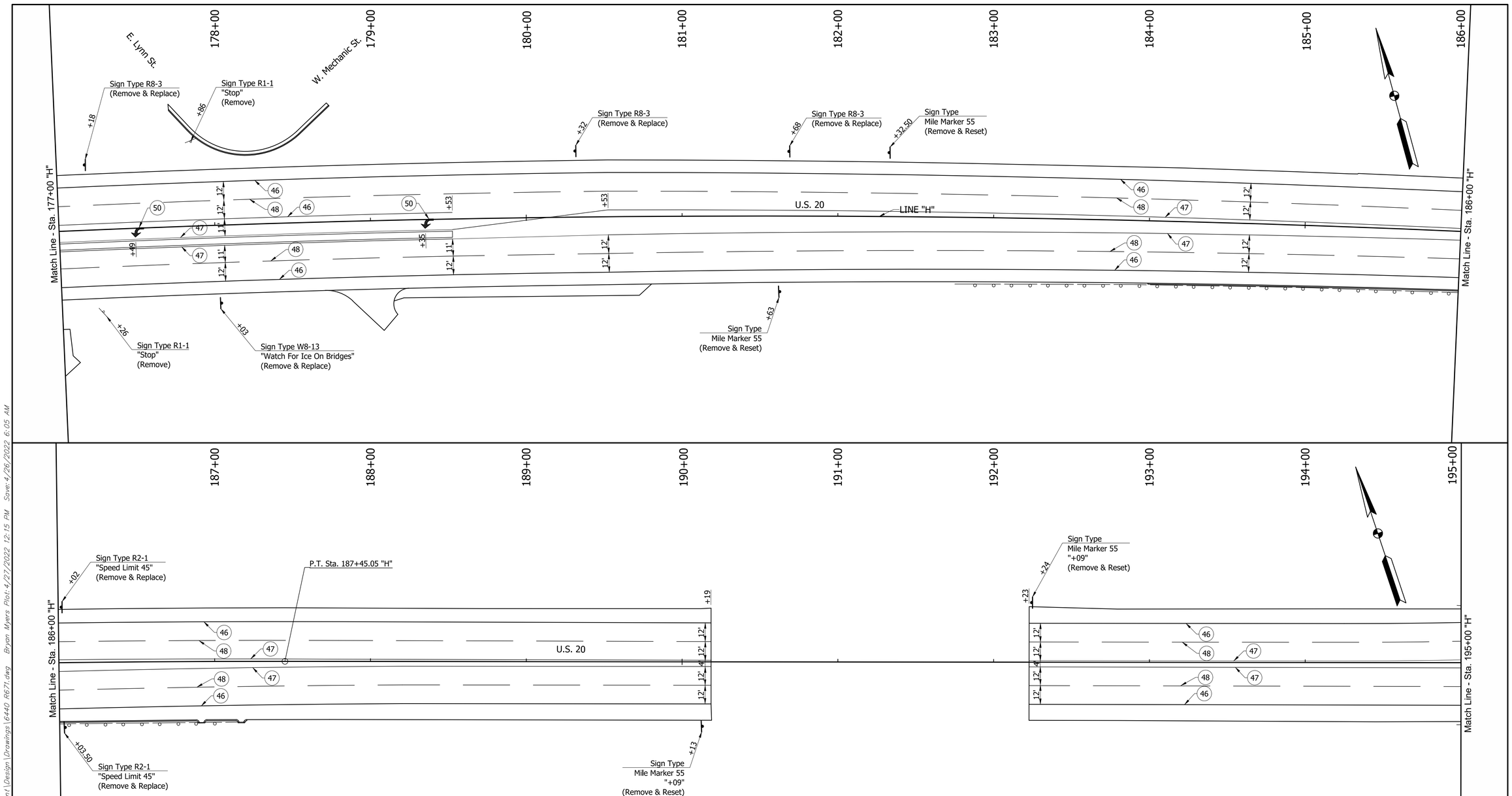
PAVEMENT MARKINGS AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	122 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

\\bfsfs02\Jobs5\644000.0000\ProjDevelopment\Design\Drawings\6440 R671.dwg Bryan Myers Plot: 4/27/2022 12:15 PM Save: 4/26/2022 6:05 AM



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow

Existing Sign

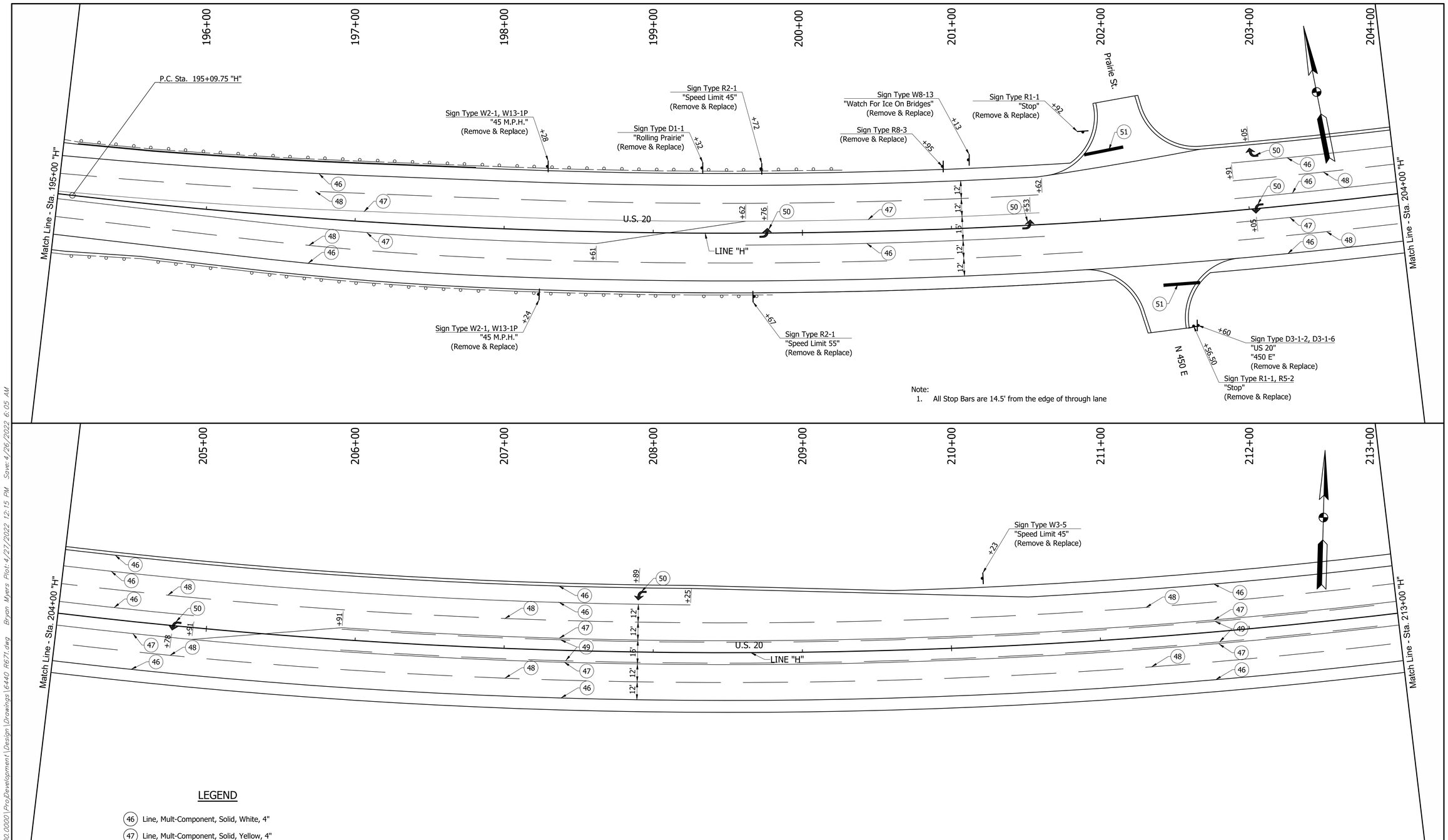
Proposed Sign

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 30' / BRIDGE FILE:
			VERTICAL SCALE: N/A / DESIGNATION: 1702992
DESIGNED: JCS	DRAWN: JMT	PAVEMENT MARKINGS AND SIGNAGE	SURVEY BOOK: 123 / SHEET: 229
CHECKED: JWG	CHECKED: JCS		CONTRACT: R-41437 / PROJECT: 1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
- (49) Line, Mult-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Proposed Sign

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

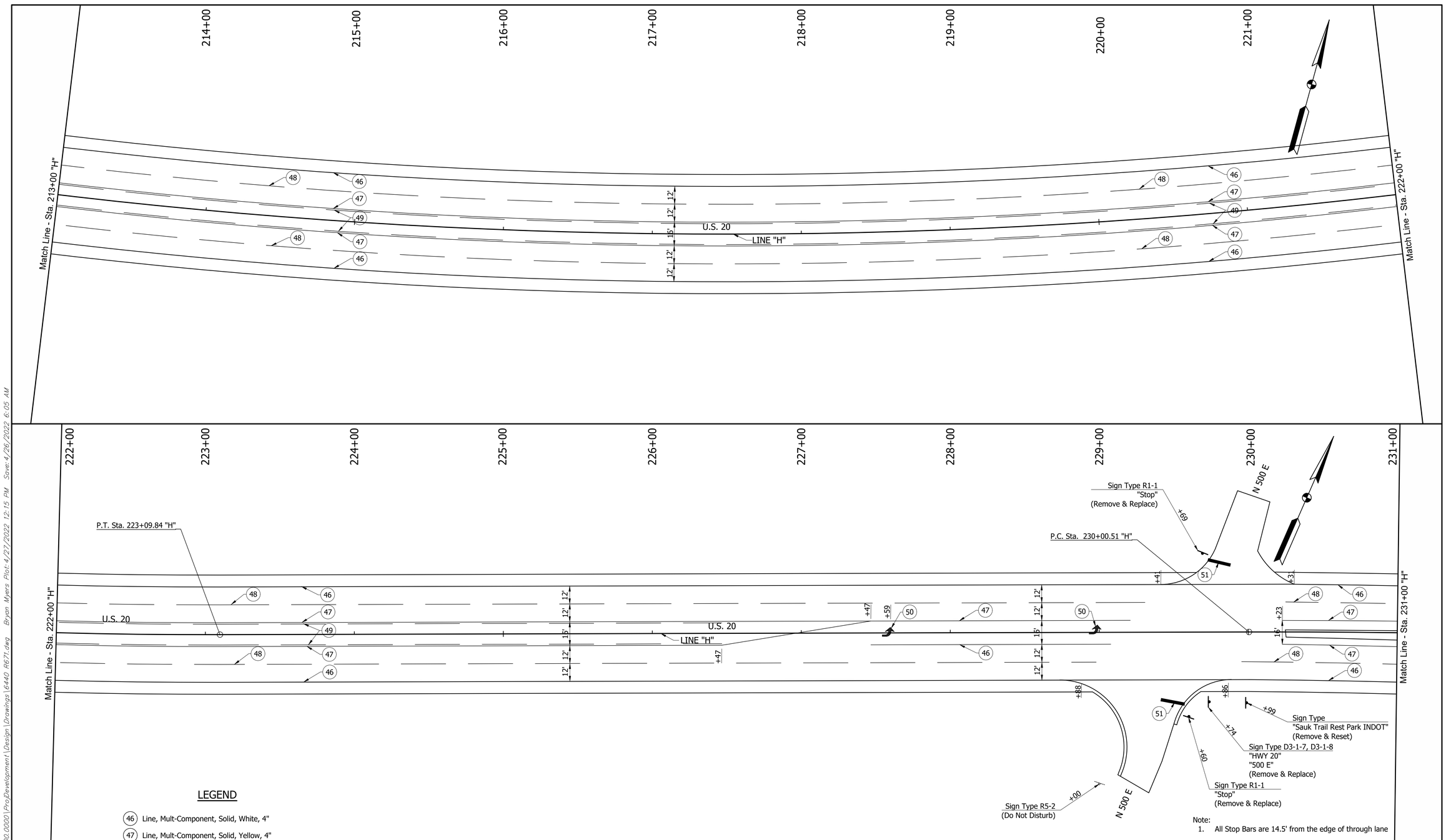
PAVEMENT MARKINGS AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	124 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

\\bfs\o12\Jobs5\644000.0000\ProjDevelopment\Design\Drawings\6440 R671.dwg Bryan Myers Plot:4/27/2022 12:15 PM Save:4/26/2022 6:05 AM

PRELIMINARY PLANS



LEGEND

- (46) Line, Mult-Component, Solid, White, 4"
- (47) Line, Mult-Component, Solid, Yellow, 4"
- (48) Line, Mult-Component, Broken, White, 4"
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- (51) Transverse Marking, Thermoplastic, Stop Line, 24"

Existing Sign

Proposed Sign

Note:
1. All Stop Bars are 14.5' from the edge of through lane

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

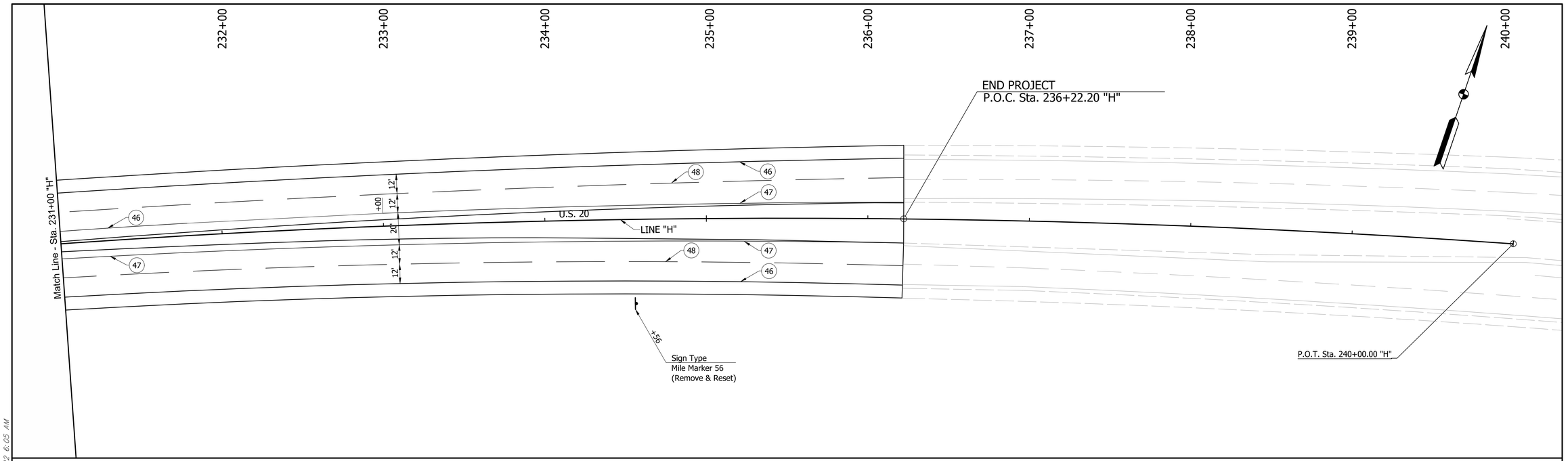
PAVEMENT MARKINGS AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	125 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS



LEGEND

- (46) Line, Multi-Component, Solid, White, 4"
- (47) Line, Multi-Component, Solid, Yellow, 4"
- (48) Line, Multi-Component, Broken, White, 4"
- (49) Line, Multi-Component, Broken, Yellow, 4"
- (50) Pavement Message Marking, Thermoplastic, Lane Indication Arrow

Proposed Sign

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS | DRAWN: JMT

CHECKED: JWG | CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS AND SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	126 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

\\bfsfs2\Jobs5\644000 0000\ProjDevelopment\Design\Drawings\6440 R671.dwg Bryan Myers Plot: 4/27/2022 12:15 PM Save: 4/26/2022 6:05 AM

PRELIMINARY PLANS

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

LOCATION					PAVED SIDE DITCH									RIPRAP DITCH			SODDING							
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIVAL. LENGTH EACH)	LUGS (8' EQUIVAL. LENGTH EACH)	TOTAL EQUIVALENT PAY LENGTHS TYPE						REVETMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
					LFT	EACH	EACH	LFT	LFT	LFT	LFT	LFT		TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS
2756+50																							

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE

LOCATION					PAVED SIDE DITCH									RIPRAP DITCH			SODDING							
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIVAL. LENGTH EACH)	LUGS (8' EQUIVAL. LENGTH EACH)	TOTAL EQUIVALENT PAY LENGTHS TYPE						REVETMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
					LFT	EACH	EACH	LFT	LFT	LFT	LFT	LFT		TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	127 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

\\bfsfs2\Jobs5\644000 0000\ProjDevelopment\Design\Drawings\6440 R911.dwg Bryan Myers Plot: 4/27/2022 12:35 PM Save: 4/7/2022 1:15 PM

PAVEMENT MARKINGS

FROM STATION	TO STATION	THERMOPLASTIC SOLID WHITE, 4"	THERMOPLASTIC SOLID YELLOW, 4"	THERMOPLASTIC BROKEN WHITE, 4"	THERMOPLASTIC BROKEN YELLOW, 4"	THERMOPLASTIC SOLID WHITE, 6"	THERMOPLASTIC SOLID YELLOW, 8"	THERMOPLASTIC SOLID WHITE, 8"	THERMOPLASTIC SKIP WHITE, 4" (3' Line, 5' Spa.)	THERMOPLASTIC DOTTED WHITE, 12" (3' Line, 5' Spa.)	TRANSVERSE MARKINGS, YIELD TRIANGLE, WHITE	TRANSVERSE MARKINGS CROSSHATCH LINE, 12"	TRANSVERSE MARKINGS STOP BAR, 24"	TRANSVERSE MARKINGS CROSSWALK, 6"	PVMNT. MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PVMNT. MESSAGE THERMOPLASTIC FISH HOOK ARROW
		LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT
LINE "H"																
107+65	113+00	1070	1070													
LINE "PR-H"																
113+00	120+65	1530	1530	382.5	382.5								32		1	
121+91	147+88	5194	5194	1298.5	1298.5								45		1	
148+92	169+52	4120	4120	1030	1030											
169+52	174+47	1340	290	247.5									75		3	
175+58	188+21	2920	2132	631.25											3	
LINE "H"																
188+21	190+19	396	396	99												
192+23	201+62	2078	1878	469.5									37		2	
202+91	229+40	6189	5298	1324.5	1028								25		4	
229+86	236+22	1438	1272	1272	161.5										2	
TOTALS		**26275**	**23180**	**6754.75**	**3900.5**								**214**		**16**	

MONUMENT TABLE

LOCATION	TYPE

MAILBOX ASSEMBLIES

LOCATION	SINGLE	DOUBLE	LEFT	RIGHT
Line "PR-H"				
117+60.72	X			X
117+63.11	X			X
122+62.64	X		X	
124+97.86	X		X	
125+07.82	X			X
132+16.43	X		X	
143+95.87	X		X	
155+50.67	X			X
157+72.62	X			X
158+35.78	X		X	
159+61.83	X			X
164+22.09	X			X

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	128 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

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TEMPORARY EROSION CONTROL TABLE-PHASE 2

FROM STATION	TO STATION	LOCATION			SILT FENCE	DIVERSION INTERCEPTOR	INTERCEPTOR DITCH	RIPRAP DITCH CHECK	CULVERT PIPE PROTECTION	SEDIMENT TRAP	SLOPE DRAIN	DROP INLET PROTECTION	CURB INLET PROTECTION	ROCK FILTER BERM	FILTER SOCK	PUMP AROUND	PROTECTIVE FENCE	REMARKS
		LEFT	MEDIAN	RIGHT	LFT	LFT	LFT	TON	EACH	TON	LFT	EA.	EA.	LFT	LFT	EA.	LFT	
110+95	113+78	X			283													
113+78		X							1									
114+01		X								X								
115+24		X						X										
116+59		X						X										
117+44		X						X										
118+11		X						X										
118+49		X						X										
119+63		X						X										
120+35		X						X										
121+85		X						X										
124+01		X						X										
126+92		X						X										
128+94		X						X										
130+15		X								X								
130+50		X							1									
130+80		X								X								
133+99		X						X										
134+82	138+01	X													319			
135+98		X						X										
136+02		X						X										
136+34		X						X										
138+54		X						X										
139+05	142+01	X			296													
143+24		X						X										
144+91	148+14	X													323			
145+09		X						X										
147+56	148+25	X												68				
147+96		X						X										
148+75	154+21	X													1258			
149+17		X						X										
151+31		X						X										
152+87		X						X										
154+21		X								X								
154+46		X							1									
154+51		X						X										
154+58	155+02	X													44			
155+49		X							1									
155+68		X						X										
156+90		X						X										
159+49	161+04	X													155			
160+94		X						X										
161+50	161+89	X												39				
161+76	165+16	X			340													
165+50	170+17	X			468													
170+61	174+59	X			397													
177+29		X						X										
177+42		X												23				
177+57		X							1									
177+72		X												27				
178+75	190+65	X			1190													
192+23	201+88	X												965				
192+38	201+20	X													2862			
202+90	208+46	X													555			
204+16		X						X										
208+92		X						X										
208+96	209+58	X												80				
209+69	214+98	X			529													
215+20	219+35	X													416			
220+55	221+23	X												77				
220+95		X						X										
221+20	229+75	X			855													
230+56	236+00	X			545													
234+21		X										1						
SUB-TOTAL PHASE 2					**4903**	**0**	**0**	**0**	**5**	**0**	**0**	**1**	**0**	**1280**	**5931**	**0**	**0**	

TEMPORARY EROSION CONTROL TABLE-PHASE 2

FROM STATION	TO STATION	LOCATION			SILT FENCE	DIVERSION INTERCEPTOR	INTERCEPTOR DITCH	RIPRAP DITCH CHECK	CULVERT PIPE PROTECTION	SEDIMENT TRAP	SLOPE DRAIN	DROP INLET PROTECTION	CURB INLET PROTECTION	ROCK FILTER BERM	FILTER SOCK	PUMP AROUND	PROTECTIVE FENCE	REMARKS
		LEFT	MEDIAN	RIGHT	LFT	LFT	LFT	TON	EACH	TON	LFT	EA.	EA.	LFT	LFT	EA.	LFT	
SUB-TOTAL PHASE 2					0		0	0	0	0	0	0	0	0	0	0	0	

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE-PHASE 2

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	129 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

TEMPORARY EROSION CONTROL TABLE-PHASE 3

FROM STATION	TO STATION	LOCATION			SILT FENCE	DIVERSION INTERCEPTOR	INTERCEPTOR DITCH	RIPRAP DITCH CHECK	CULVERT PIPE PROTECTION	SEDIMENT TRAP	SLOPE DRAIN	DROP INLET PROTECTION	CURB INLET PROTECTION	ROCK FILTER BERM	FILTER SOCK	PUMP AROUND	PROTECTIVE FENCE	REMARKS
		LEFT	MEDIAN	RIGHT	LFT	LFT	LFT	TON	EACH	TON	LFT	EA.	EA.	LFT	LFT	EA.	LFT	
113+82	114+99			X											117			
113+83				X				X										
114+66				X				X										
115+27	117+22			X											195			
115+34				X					1									
115+55				X				X										
116+42				X				X										
117+53	118+48			X											95			
118+04	121+20			X	332													
121+63	124+84			X	360													
124+96	130+25			X	550													
129+86	131+17			X											131			
130+21				X				X										
130+45				X				X										
130+58				X				X										
130+98	134+96			X	416													
135+06	137+49			X	260													
137+69	139+85			X	227													
140+08	148+19			X	841													
148+57	149+64			X	136													
149+77	152+21			X	244													
152+41	152+77			X	35													
152+96	154+31			X	150													
154+78	155+28			X	65													
155+43	157+81			X	240													
158+00	158+44			X	44													
158+55	159+28			X	73													
159+43	173+00			X	1352													
174+84				X								1						
175+45	177+53			X											208			
176+50				X					1									
179+27	190+50			X	1123													
192+28	192+96			X	119													
192+96	199+50			X										692				
192+87	197+99			X											1785			
199+50	202+20			X	287													
202+63	214+50			X	1218													
214+47	215+51			X											104			
215+01				X				X										
215+08				X					1									
215+19				X				X										
215+58	228+75			X	1327													
228+99				X					1									
229+38	236+22			X	713													
SUB-TOTAL PHASE 3					**10112**	**0**	**0**	**0**	**4**	**0**	**0**	**1**	**0**	**692**	**2636**	**0**	**0**	
SUB-TOTAL PHASE 2					**4903**	**0**	**0**	**0**	**5**	**0**	**0**	**1**	**0**	**1280**	**5931**	**0**	**0**	
TOTAL					**15015**	**0**	**0**	**0**	**9**	**0**	**0**	**2**	**0**	**1972**	**8568**	**0**	**0**	

TEMPORARY EROSION CONTROL TABLE-PHASE 3

FROM STATION	TO STATION	LOCATION			SILT FENCE	DIVERSION INTERCEPTOR	INTERCEPTOR DITCH	RIPRAP DITCH CHECK	CULVERT PIPE PROTECTION	SEDIMENT TRAP	SLOPE DRAIN	DROP INLET PROTECTION	CURB INLET PROTECTION	ROCK FILTER BERM	FILTER SOCK	PUMP AROUND	PROTECTIVE FENCE	REMARKS
		LEFT	MEDIAN	RIGHT	LFT	LFT	LFT	TON	EACH	TON	LFT	EA.	EA.	LFT	LFT	EA.	LFT	
SUB-TOTAL PHASE 3					**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
SUB-TOTAL PHASE 2					**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
TOTAL					**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER _____ DATE

DESIGNED: JWG DRAWN: BKM

CHECKED: JCS CHECKED: JWG

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL TABLE-PHASE 3

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	130 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

\\bfsfs02\Jobs5\644000.0000\ProjDevelopment\Design\Drawings\6440_R921.dwg Bryan Myers Plot:4/27/2022 12:35 PM Save:4/27/2022 1:16 PM

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		HMA FOR APPROACHES/PATH					QC/QA HMA MATERIAL FOR MAINLINE						HMA FOR TEMP. PAVEMENT				SUBGRADE TREATMENT TYPE IB	SUBGRADE TREATMENT TYPE II	SUBGRADE TREATMENT TYPE III	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53		D-1 CONTRACTION JOINTS	PCCP, 7.5 IN	PCCP FOR APPROACHES 9 IN.	2'-7" COMBINED CONCRETE CURB & GUTTER	2'-0" COMBINED CONCRETE CURB & GUTTER	2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER	2'-0" CONCRETE ROLL CURB & GUTTER	CONCRETE CURB	REMARKS
												HMA TYPE "A" FOR APPROACH		HMA TYPE "A" SURFACE	HMA TYPE "A" INTERMEDIATE	HMA FOR ISLANDS TYPE "A"	2, 70, SURFACE 12.5mm	2, 70, INTERMEDIATE 19.0mm	3, 76, BASE 25.0mm	3, 76, BASE 25.0mm	5, 76, INTERMEDIATE C19.0mm		HMA TYPE "B"	HMA TYPE "B"	HMA TYPE "A"	HMA TYPE "A"				PRIME COAT	TACK COAT	DEPTH									
					COMPACTED AGGREGATE BASE	HMA	CONCRETE	1	2	CUT	FILL	LBS. PER SYD.					LBS. PER SYD.						LBS. PER SYD.									6 IN.									
		FEET	FEET	FEET				%	%	CYS.	CYS.	110 TONS	330 TONS	220 TONS	275 TONS	110 TONS	220 TONS	275 TONS	275 TONS	330 TONS	220 TONS	110 TONS	440 TONS	440 TONS	330 TONS	220 TONS	SYS.	SYS.	SYS.	TONS	TONS	SYS.	SYS.	LFT	SYS	SYS.	LFT	LFT	LFT	LFT	LFT	
LINE "PR-H"																																								
115+14 Rt.	MOD. CL. IV	13.0	34.0	20, 20	X			-4.00	-14.55																															
117+23 Lt.	MOD. CL. V	10.5	40.0	20, 20	X			-4.00	-14.68																															
117+40 Rt.	MOD. CL. II	15.0	32.0	20, 10	X			-4.00	-15.00																															
121+27 Lt.	M.P.R.A.	22.0	48.0	50, 40				-3.60																															
121+27 Rt.	M.P.R.A.	22.0	62.5	50, 40				-4.00	-4.62																															
122+48 Lt.	MOD. CL II	20.0	16.0	25, 8	X			-1.35																															
124+66 Lt.	MOD. CL. II	19.0	23.0	25, 15	X			-4.00	3.98																															
124+89 Rt.	MOD. CL. II	19.0	36.0	5, 20				-4.00	-14.03																															
126+45 Lt.	MOD. CL. II	7.0	25.0	25, 15	X			-0.78																															
127+78 Lt.	MOD. CL. V	12.0	21.0	25,15				-4.00																															
128+59 Lt.	MOD. CL. V	14.5	31.0	15, 15	X			-4.00	3.30																															
132+40 Lt.	MOD. CL. II	12.5	21.5	25, 15				1.04																															
135+00 Rt.	CL. IV	28.0	25.5	25, 15				-4.18																															
137+56 Rt.	MOD. CL. II	30.0	12.0	25, 15				-1.56																															
139+91 Rt.	CL. II	38.0	21.5	25, 15				-4.48																															
143+75 Lt.	CL. II	11.0	70.5	15, 15		X		-4.00	9.96																															
148+37 Lt.	M.P.R.A.	23.5	39.5	40, 40				-2.51																															
148+37 Rt.	M.P.R.A.	25.0	47.5	40, 40				-1.43																															
149+66 Rt.	CL II	28.0	21.5	25, 15				-1.53																															
152+28 Rt.	CL. II	35.5	21.5	25, 15				-5.97																															
152+85 Rt.	MOD. CL. II	37.5	21.5	20, 15				-7.83																															
155+20 Lt.	Cl. V	24.0	25.8	25,25				-2.54																															
155+35 Rt.	Mod. CL. II	11.0	18.5	25, 15				-5.24																														Add 10'x10' Level Landing on West Side of Drive	
157+08 Lt.	CL. II	9.0	80.0	25, 15		X		1.00	10.00																															
157+91 Rt.	CL. II	18.0	26.0	25, 15				-4.90																															
158+48 Rt.	CL II.	9.0	25.5	25, 15				-5.86																															
158+63 Lt.	CL II	10.0	68.0	25, 15		X		1.00	10.00																															
159+36 Rt.	MOD. CL. II	12.5	24.5	25, 15				-8.57																															
SUB-TOTALS																																							

RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE

DESIGNED: JCS DRAWN: JMT

CHECKED: JWG CHECKED: JCS

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	131 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

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PRELIMINARY PLANS

SUMMARY OF QUANTITIES AND APPROACH TABLE

LOCATION (STATION)	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		HMA FOR APPROACHES/PATH					QC/QA HMA MATERIAL FOR MAINLINE						HMA FOR TEMP. PAVEMENT				SUBGRADE TREATMENT TYPE IB	SUBGRADE TREATMENT TYPE II	SUBGRADE TREATMENT TYPE III	ASPHALT MATERIAL FOR		COMPACTED AGGREGATE FOR BASE NO. 53		D-1 CONTRACTION JOINTS	PCCP, 7.5 IN	PCCP FOR APPROACHES 9 IN.	2'-7" COMBINED CONCRETE CURB & GUTTER	2'-0" COMBINED CONCRETE CURB & GUTTER	2'-0" INVERTED COMBINED CONCRETE CURB & GUTTER	2'-0" CONCRETE ROLL CURB & GUTTER	CONCRETE CURB	REMARKS
					COMPACTED AGGREGATE BASE	HMA	CONCRETE					HMA TYPE "A" FOR APPROACH		HMA TYPE "A" SURFACE	HMA TYPE "A" INTERMEDIATE	HMA FOR ISLANDS TYPE "A"	2, 70, SURFACE 12.5mm	2, 70, INTERMEDIATE 19.0mm	3, 76, BASE 25.0mm	3, 76, BASE 25.0mm	5, 76, INTERMEDIATE C19.0mm		HMA TYPE "B"	HMA TYPE "B"	HMA TYPE "A"	HMA TYPE "A"				PRIME COAT	TACK COAT											
												LBS. PER SYD.					LBS. PER SYD.						LBS. PER SYD.									DEPTH								
								1	2	CUT	FILL	110	330	220	275	110	220	275	275	330	220	110	440	440	330	220						6 IN.								
		FEET	FEET	FEET				%	%	CYS.	CYS.	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS.	SYS.	SYS.	TONS	TONS	SYS.	SYS.	LFT	SYS	SYS.	LFT	LFT	LFT	LFT	LFT	
LINE "PR-H"																																								
164+04 Rt.	CL. II	11.0	20.5	15, 15				-5.49																																
165+28 Lt.	Mod. CL. II	19.0	18.5	20, 20				-1.96																																
170+26 Lt.	M.P.R.A.	33.0	60.0	40,40				-1.66																																
175+03 Lt.	M.P.R.A.	34.0	75.6	30, 60				-0.28	4.41																																
175+03 Rt.	M.P.R.A.	24.0	63.5	30, 30				-2.53																																
176+61 Lt.	Mod. Cl. IV	67.0	24.0	20, 20				1.37																																
179+09 Rt.	CL II	16.0	25.0	25, 10				-6.36																																
LINE "H"																																								
202+30 Lt.	M.P.R.A.	27.0	41.0	40, 40				-2.83																																
202+30 Rt.	M.P.R.A.	24.0	57.0	40, 40				-3.29																																
229+67 Lt.	M.P.R.A.	23.0	60.0	40, 40				-2.97																																
229+67 Rt.	M.P.R.A.	22.5	71.0	45, 40				-4.88																																

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INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	132 OF 229
CONTRACT	PROJECT
R-41437	1702992

BFS NO. 6440.1701

PRELIMINARY PLANS

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH	SKEW	FLOWLINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCUTRE BACKFILL	REVETMENT, RIPRAP	CLASS I, RIPRAP	CLASS 2, RIPRAP	PIPE END SECTION	GEOTEXTILE FOR RIPRAP, TYPE 1A	GRATED BOX END SECTION		SAFETY METAL END SECTION		RIM ELEVATION	CONNECT TO STRUCTURE	REMARKS
	STATION	LEFT	RIGHT	CROSS						COVER	UP STREAM	DOWN STREAM											TYPE	EA.	SLOPE	EA.			
					IN.			FEET		FEET	ELEV.	ELEV.	YEAR				CYS.	TONS	TONS	TONS	EA.	SYS.							
11	113+78			X	36	1		103		2.3	816.90	816.80	75		6.5	1	28.04		32			37			3:1	2			SC 020-46-53.7, CLV-53345
12	115+14		X		15	3		50		5.0	820.29	819.09	50		6.5	2	4.68												
13	117+23	X			15	3		42		5.0	822.67	821.57	50		6.5	2	3.94												
14	117+40		X		15	3		48		4.0	825.52	824.39	50		6.5	2	4.50												
15	121+25	X			15	3		56		2.0	833.48	832.06	50		6.5	2	5.25				2								
16	122+48	X			15	3		32		1.0	835.08	834.92	50		6.5	2	3.00				2								
17	124+66	X			15	3		34		1.5	835.39	835.17	50		6.5	2	3.19				2								
18	126+45	X			15	3		26		2.0	834.14	833.97	50		6.5	2	2.44				2								
19	128+50	X			15	3		38		3.5	832.72	832.40	50		6.5	2	3.56												
20	130+50			X	36	1		101		1.3	829.71	829.18	75		6.5	1	68.00	12				25			3:1	2			SC 020-46-54.04, 1.0' Sump
21	143+75	X			15	3		38		4.0	831.44	831.05	50		6.5	2	3.56				2								
22	154+47			X	36	1		100		1.5	821.44	821.14	75		6.5	1	140.00		16			27			3:1, 4:1	1, 1			SC 020-46-54.48
22A	155+20	X			15	3		58		1.0	822.94	822.36	50		6.5	2					2								
23	157+08	X			15	3		28		1.0	825.76	825.51	50		6.5	2	2.62				2								
24	158+63	X			15	3		24		1.0	827.24	827.03	50		6.5	2	2.25				2								
25	175+03		X		15	1		66		2.0	819.17	818.69	75		6.5	1	21.94				2								
26A	176+91	X			15	3		81		1.0	817.47	817.00	50		6.5	2		10			2	19							
26	177+57			X	36	1		108		1.5	816.16	814.07	75		6.5	1	134.00	12				25			3:1, 4:1	1, 1			SC 020-46-54.91, 1.0' Sump
27	215+08	X			24	1		15		1.5	820.66	820.49	75		6.5	1			8		1	16							SC 020-46-55.64, CLV-53348
28	215+08		X		24	1		7		1.5	822.16	822.06	75		6.5	1					1								SC 020-46-55.64, CLV-53348

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STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE
N/A	
VERTICAL SCALE	DESIGNATION
N/A	1702992
SURVEY BOOK	SHEET
	133 OF 229
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PRELIMINARY PLANS

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