

PROJECT	DESIGNATION
2101733	2101733
CONTRACT	BRIDGE FILE
R-44267	-

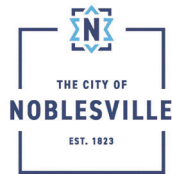
INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

PROJECT NO. 2101733 P.E., R/W, CN

TRAFFIC DATA	OLIO RD.
A.D.T. (2025)	4300 V.P.D.
A.D.T. (2045)	5300 V.P.D.
D.H.V. (2045)	530 V.P.H.
DIRECTIONAL DISTRIBUTION	52% NB / 48% SB
TRUCKS	4.4% D.H.V.
DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL AGENCY COLLECTOR
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	NONE



APPROVED BY CITY OF NOBLESVILLE
BOARD OF PUBLIC WORKS AND SAFETY

JACK MARTIN, PRESIDENT

JOHN DITSLEAR, MEMBER

LAURIE DYER, MEMBER

ROBERT J. ELMER, MEMBER

RICK L. TAYLOR, MEMBER

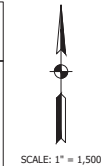
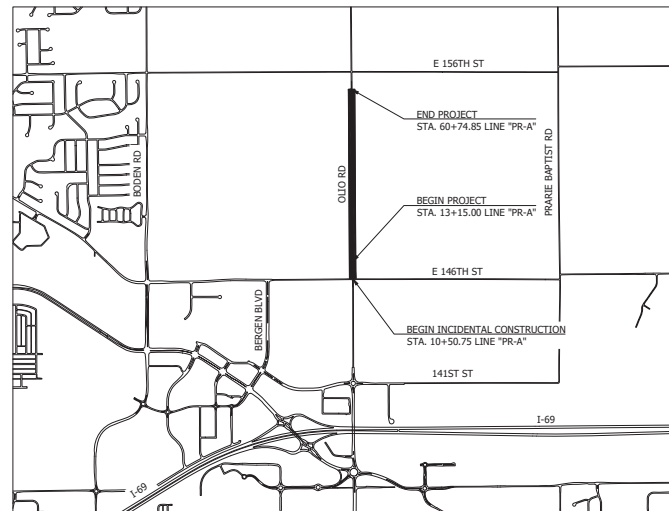
ATTEST _____ DATE _____

EVELYN L. LEES, CLERK
CITY OF NOBLESVILLE, INDIANA

RECOMMENDED FOR APPROVAL _____ DATE _____

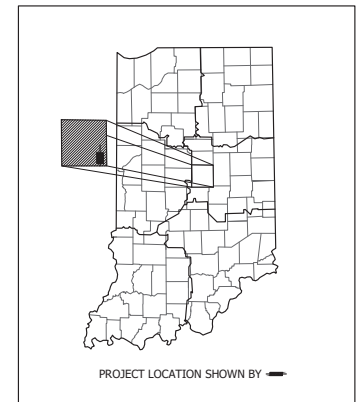
ALISON KRUPSKI, P.E., CITY ENGINEER (ERC)
CITY OF NOBLESVILLE

THIS PROJECT INCLUDES RECONSTRUCTION OF OLIO ROAD FROM 146TH STREET TO THE SOUTHERN END OF THE BRIDGE CARRYING OLIO ROAD OVER SAND CREEK. THIS PROJECT IS LOCATED IN SECTIONS 13 AND 14, T18N, R5E, IN WAYNE TOWNSHIP, HAMILTON COUNTY, INDIANA



SCALE: 1" = 1,500'

PROJECT LOCATION MAP
HAMILTON COUNTY



PROJECT LOCATION SHOWN BY _____

LATITUDE: 40°00'34"N LONGITUDE: 85°55'09"W

GROSS LENGTH: 0.901 MI.
NET LENGTH: 0.901 MI.
MAXIMUM GRADE: 1.47 %

HUC12 051202010903

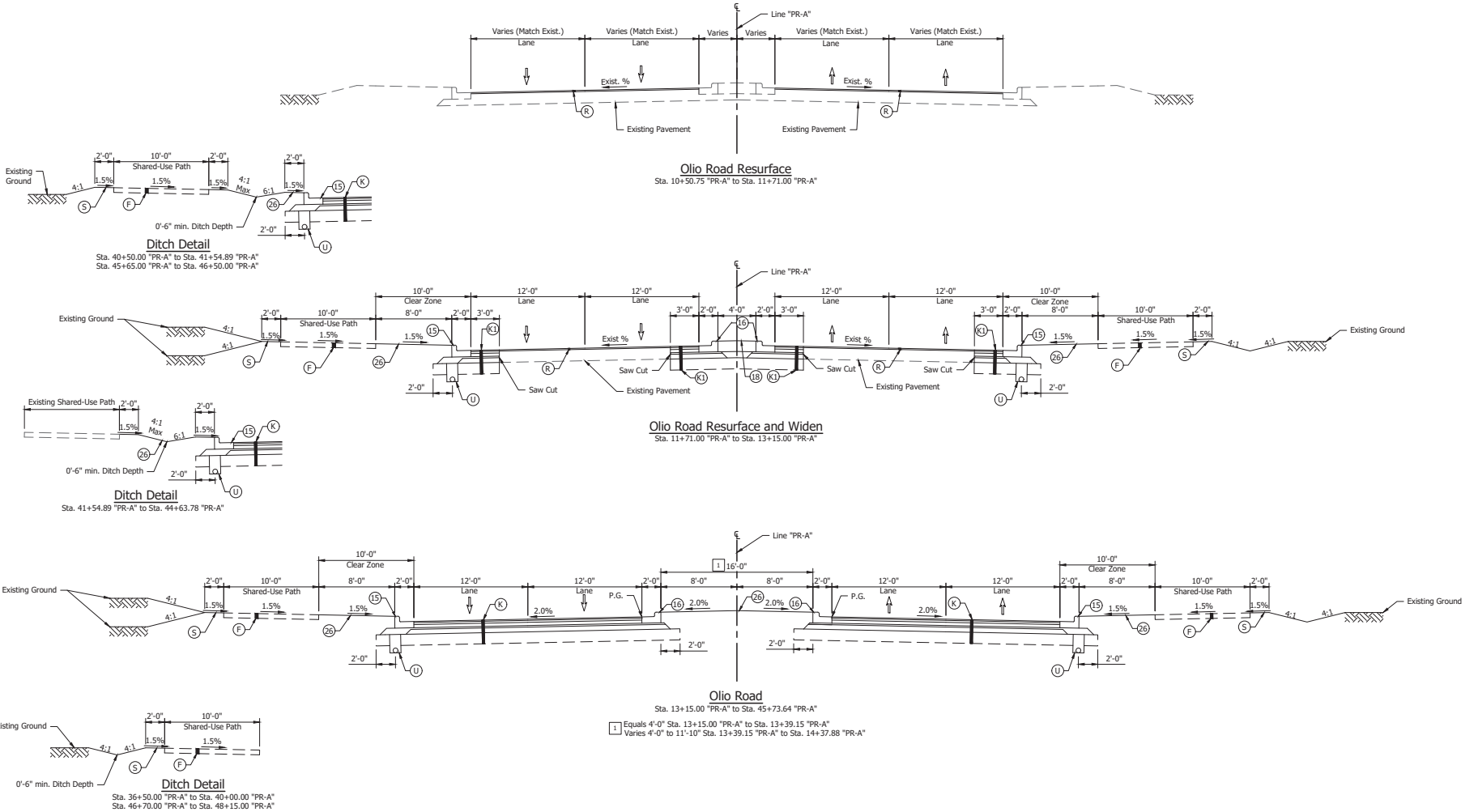
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS



8440 Allison Pointe Blvd.
Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
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PLANS PREPARED BY:	UNITED CONSULTING	(317) 895-2585
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
DESIGNATION	2101733
SURVEY BOOK	SHEETS
CONTRACT	1 of 97
R-44267	PROJECT
	2101733



- LEGEND**
- (F) HMA For Sidewalk
330 #/Sys HMA Surface, Type B (Placed in One Lift) on 6" Compacted Aggregate, No. 53 on Subgrade Treatment, Type III
To Be Constructed if Funds Become Available
 - (R) Mill and Resurface
1.5" (Min.) Milling, Asphalt, then 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Existing Pavement
 - (K) Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 64, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 200 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 660 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type IC
 - (C) 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C, Consisting of 275 #/Sys HMA Intermediate, Type C on 440 #/Sys HMA Base, Type C on 200 #/Sys Intermediate, OG Type C on 660 #/Sys HMA, Base, Type C on Subgrade Treatment, Type IC
 - (U) Underdrain, 6"
 - (S) Seed Mixture, U
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb and Gutter, Concrete, Modified, Type III
 - (17) Center Curb, D, Concrete
 - (18) 13" PCFP (Decorative) on 8" Compacted Aggregate, No. 53 Subgrade Treatment, Type IC
 - (26) Sodding, Nursery

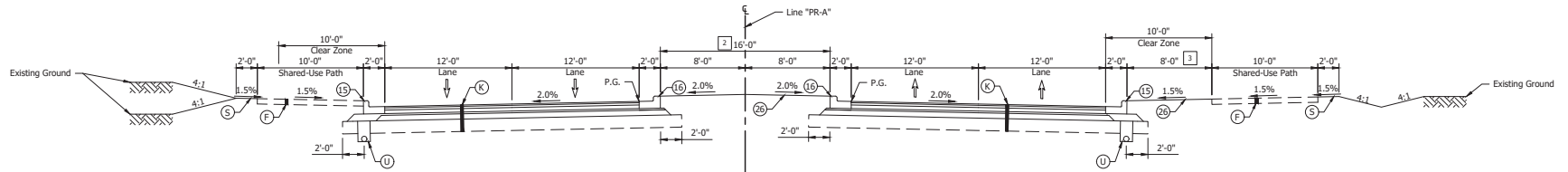


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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SCW	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
OLIVO ROAD TYPICAL SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
3	97
CONTRACT	PROJECT
R-44267	2101733



Olivo Road
 Sta. 45+73.84 "PR-A" to Sta. 60+74.89 "PR-A"

Varies 16'-0" to 11'-10" Sta. 54+53.48 "PR-A" to Sta. 56+60.00 "PR-A"

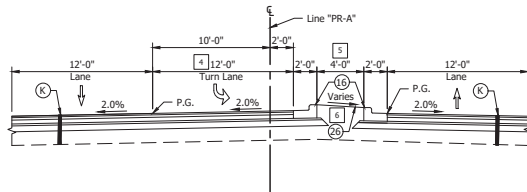
2 Varies 10'-2" to 6'-1" Sta. 57+29.00 "PR-A" to Sta. 58+94.00 "PR-A"

Varies 4'-4" to 4'-0" Sta. 59+86.00 "PR-A" to Sta. 60+52.50 "PR-A"

Equals 4'-0" Sta. 60+52.50 "PR-A" to Sta. 60+74.89 "PR-A"

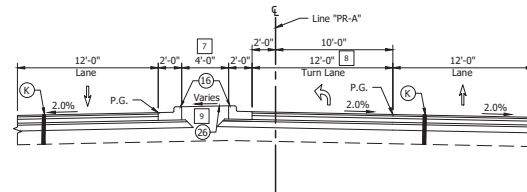
3 Varies 8'-0" to 2'-0" Sta. 59+44.82 "PR-A" to Sta. 59+90.52 "PR-A"

Equals 0'-0" Sta. 59+90.52 "PR-A" to Sta. 60+74.89 "PR-A"



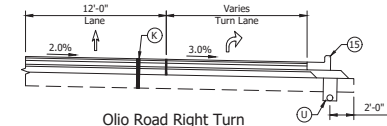
Olivo Road Left Turn Lane Detail

- 4 Equals 12'-0" Sta. 23+20.00 "PR-A" to Sta. 24+20.00 "PR-A"
- Varies 12'-0" to 0'-0" Sta. 24+20.00 "PR-A" to Sta. 25+20.00 "PR-A"
- 5 Equals 4'-0" Sta. 23+20.00 "PR-A" to Sta. 24+20.00 "PR-A"
- Varies 4'-0" to 16'-0" Sta. 24+20.00 "PR-A" to Sta. 25+20.00 "PR-A"
- 6 (18) From Sta. 23+20.00 "PR-A" to Sta. 24+20.00 "PR-A"
- (26) From Sta. 24+20.00 "PR-A" to Sta. 25+20.00 "PR-A"



Olivo Road Left Turn Lane Detail

- 7 Varies 11'-10" to 4'-0" Sta. 14+37.88 "PR-A" to Sta. 15+37.88 "PR-A"
- Equals 4'-0" Sta. 15+37.88 "PR-A" to Sta. 16+37.88 "PR-A"
- Varies 16'-0" to 4'-0" Sta. 40+72.00 "PR-A" to Sta. 41+72.00 "PR-A"
- Equals 4'-0" Sta. 41+72.00 "PR-A" to Sta. 42+72.00 "PR-A"
- 8 Varies 0'-0" to 12'-0" Sta. 14+37.88 "PR-A" to Sta. 15+37.88 "PR-A"
- Equals 12'-0" Sta. 15+37.88 "PR-A" to Sta. 16+37.88 "PR-A"
- Varies 0'-0" to 12'-0" Sta. 40+72.00 "PR-A" to Sta. 41+72.00 "PR-A"
- Equals 12'-0" Sta. 41+72.00 "PR-A" to Sta. 42+72.00 "PR-A"
- 9 From Sta. 14+37.88 "PR-A" to Sta. 15+37.88 "PR-A"
- (26) From Sta. 14+37.88 "PR-A" to Sta. 15+37.88 "PR-A"
- (18) From Sta. 15+37.88 "PR-A" to Sta. 16+37.88 "PR-A"
- (26) From Sta. 40+72.00 "PR-A" to Sta. 41+72.00 "PR-A"
- (18) From Sta. 41+72.00 "PR-A" to Sta. 42+72.00 "PR-A"



Olivo Road Right Turn

- Varies 0'-0" to 12'-0" Sta. 20+05.00 "PR-A" to Sta. 21+05.00 "PR-A"
- Equals 12'-0" Sta. 21+05.00 "PR-A" to Sta. 23+20.05 "PR-A"
- Varies 12'-0" to 0'-0" Sta. 23+20.05 "PR-A" to Sta. 24+40.00 "PR-A"

- LEGEND**
- (F) HMA For Sidewalk
330 #/Sys HMA Surface, Type B (Placed in One Lift) on 6" Compacted Aggregate, No. 53 on Subgrade Treatment, Type III
To Be Constructed if Funds Become Available
 - (R) Mill and Resurface
1.5" (Min.) Milling, Asphalt, then 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Existing Pavement
 - (K) Full Depth HMA Pavement
165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 200 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 660 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type IC
 - (165) 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C, Consisting of 275 #/Sys HMA Intermediate, Type C on 440 #/Sys HMA Base, Type C on 200 #/Sys Intermediate, OG Type C on 660 #/Sys HMA, Base, Type C on Subgrade Treatment, Type IC
 - (U) Underdrain, 6"
 - (S) Seed Mixture, U
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb and Gutter, Concrete, Modified, Type III
 - (17) Center Curb, D, Concrete
 - (18) 13" PCCP (Decorative) on 8" Compacted Aggregate, No. 53 Subgrade Treatment, Type IC
 - (26) Sodding, Nursery

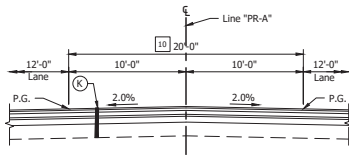


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CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
OLIVO ROAD TYPICAL SECTIONS	

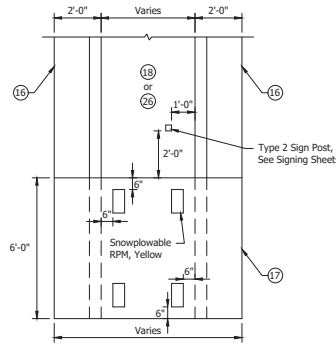
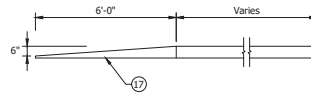
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
4	121 97
CONTRACT	PROJECT
R-44267	2101733



Olto Road Median Breaks

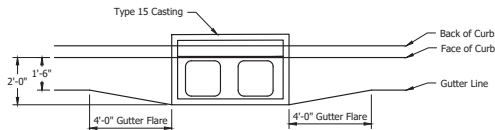
Sta. 16+37.88 to Sta. 17+16.00
 Sta. 22+05.00 to Sta. 23+20.00
 Sta. 29+57.00 to Sta. 36+52.00
 Sta. 42+72.00 to Sta. 45+89.00
 Sta. 49+22.00 to Sta. 49+98.00
 Sta. 50+45.00 to Sta. 51+24.00
 Sta. 53+28.00 to Sta. 54+06.00
 Sta. 56+66.00 to Sta. 57+23.00
 Sta. 59+00.00 to Sta. 59+80.00

10 Varies 15'-8" to 14'-3" Sta. 56+66.00 "PR-A" to Sta. 57+23.00 "PR-A"
 Varies 9'-11" to 8'-5" Sta. 59+00.00 "PR-A" to Sta. 59+80.00 "PR-A"



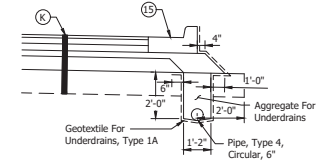
17 Center Curb, D, Concrete

Not To Scale



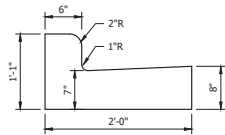
GUTTER FLARE AT TYPE 15 CASTING

Not To Scale



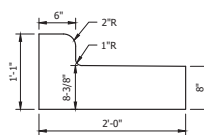
HMA UNDERDRAIN DETAIL FOR CURB AND GUTTER

NOT TO SCALE
 Right Shown, Reverse for Left



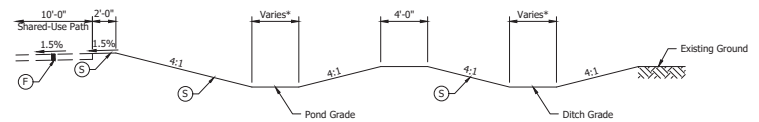
15 Curb and Gutter, Concrete, Modified, Type II

Not To Scale



16 Curb and Gutter, Concrete, Modified, Type III

Not To Scale



Detention Ditch Pond

Not To Scale
 *See Detention Detail Sheets

LEGEND

- F HMA For Sidewalk
- K Full Depth HMA Pavement
- U Underdrain, 6"
- 15 Curb and Gutter, Concrete, Modified, Type II
- 16 Curb and Gutter, Concrete, Modified, Type III
- 17 Center Curb, D, Concrete
- 330 #/Sys HMA Surface, Type B (Placed in One Lift) on 6" Compacted Aggregate, No. 53 on Subgrade Treatment, Type III
- 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 #/Sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 440 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on 200 #/Sys QC/QA-HMA, 4, 76, Intermediate, OG 19.0 mm on 660 #/Sys QC/QA-HMA, 3, 64, Base, 25.0 mm on Subgrade Treatment, Type IC
- 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Widening with HMA, Type C, Consisting of 275 #/Sys HMA Intermediate, Type C on 440 #/Sys HMA Base, Type C on 200 #/Sys Intermediate, OG Type C on 660 #/Sys HMA, Base, Type C on Subgrade Treatment, Type IC
- 8" Compacted Aggregate, No. 53 Subgrade Treatment, Type IC
- 13" PCCP (Decorative) on 8" Compacted Aggregate, No. 53 Subgrade Treatment, Type IC
- Sodding, Nursery
- Mill and Resurface 1.5" (Min.) Milling, Asphalt, then 165 #/Sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Existing Pavement
- Seed Mixture, U

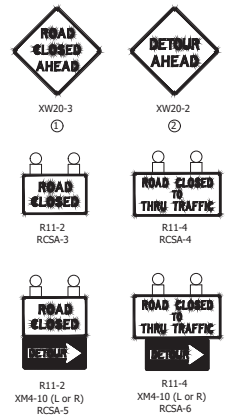
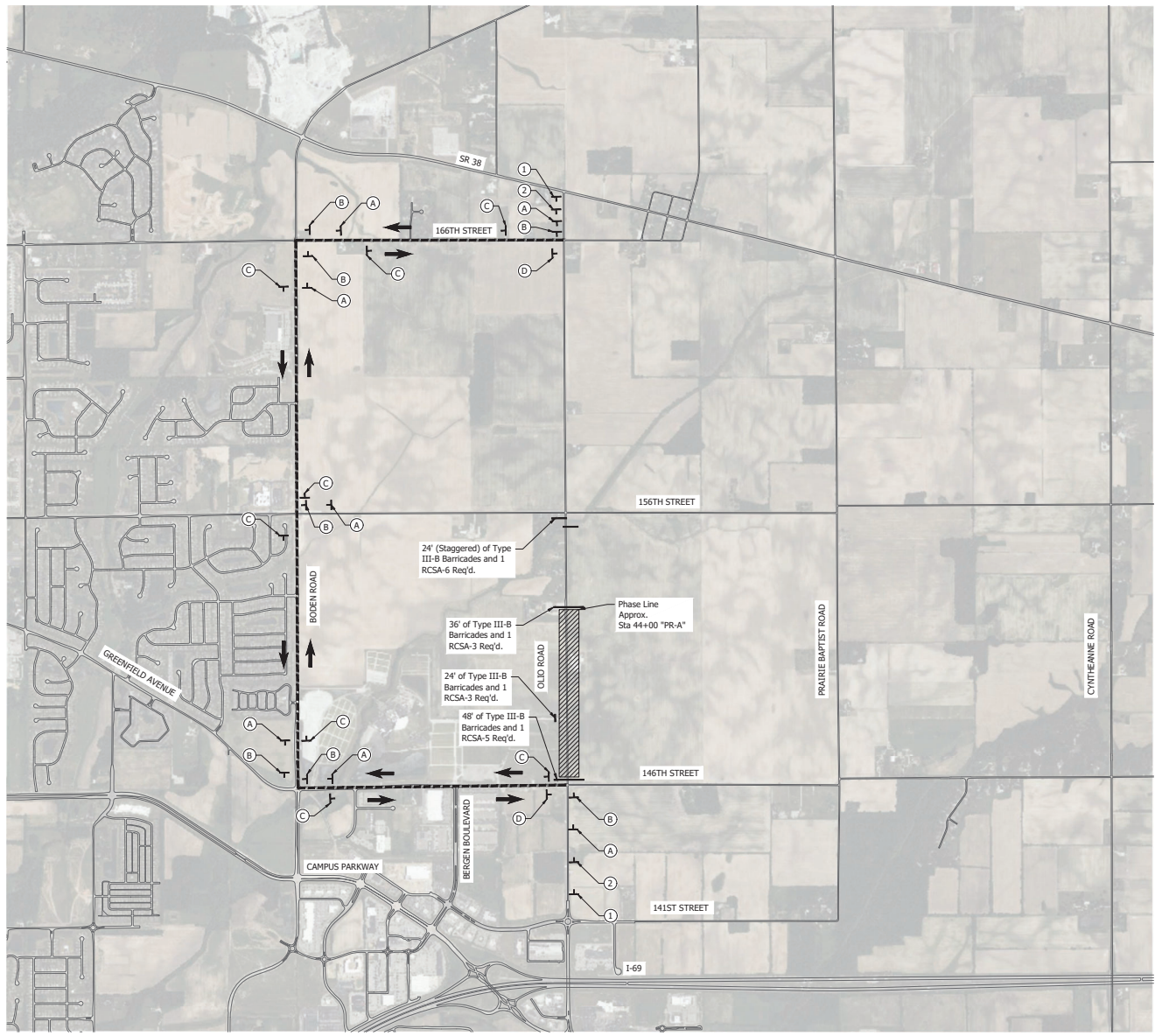


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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SCW	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
OLIO ROAD TYPICAL SECTIONS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
-	5 21 97
CONTRACT	PROJECT
R-44267	2101733



SIGN LEGEND

QUANTITY SUMMARY				
Detour Route	Phase 1	Phase 2	Total	Units
Detour Route Marker Assembly	24	24	24	Each
Construction Sign, A	4	4	4	Each
Road Closure Sign Assembly	4	3	4	Each
Barricade, Type III-B	132	84	132	LFT

LEGEND

- TT Construction Sign, Type A
- ⊕ Construction Warning Light, Type "A"
- T Detour Route Marker Assembly
- Barricade, Type III-B
- ▨ Construction Area
- Detour Route
- ← Direction of Traffic Flow

DETOUR ROUTE MARKER ASSEMBLIES

- (A) Advance Turn D.R.M.A.
- (B) Directional D.R.M.A.
- (C) Confirming D.R.M.A.
- (D) End D.R.M.A.

NOTES: For Detour Route Marker Assemblies See Standard Drawing E801-TCDT-04.

GENERAL NOTES

1. Placement of all advanced warning signs shall be completed prior to the placement of any maintenance of traffic devices.
2. Placement of all maintenance of traffic devices shall be completed prior to the start of any construction.
3. All maintenance of traffic shall be in accordance with MUTCD
4. Access to driveways and approaches shall be provided at all times.

File Name: F:\01\2025\25-02 - Road\Drawings\Phase1\TCDT - DetourRoute.dwg Plot Date: 02/20/25 10:45:11 AM By: Tim Leventos



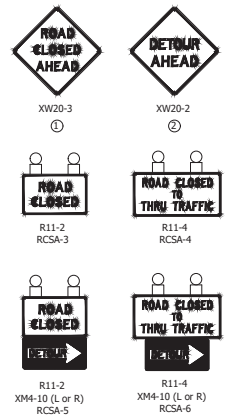
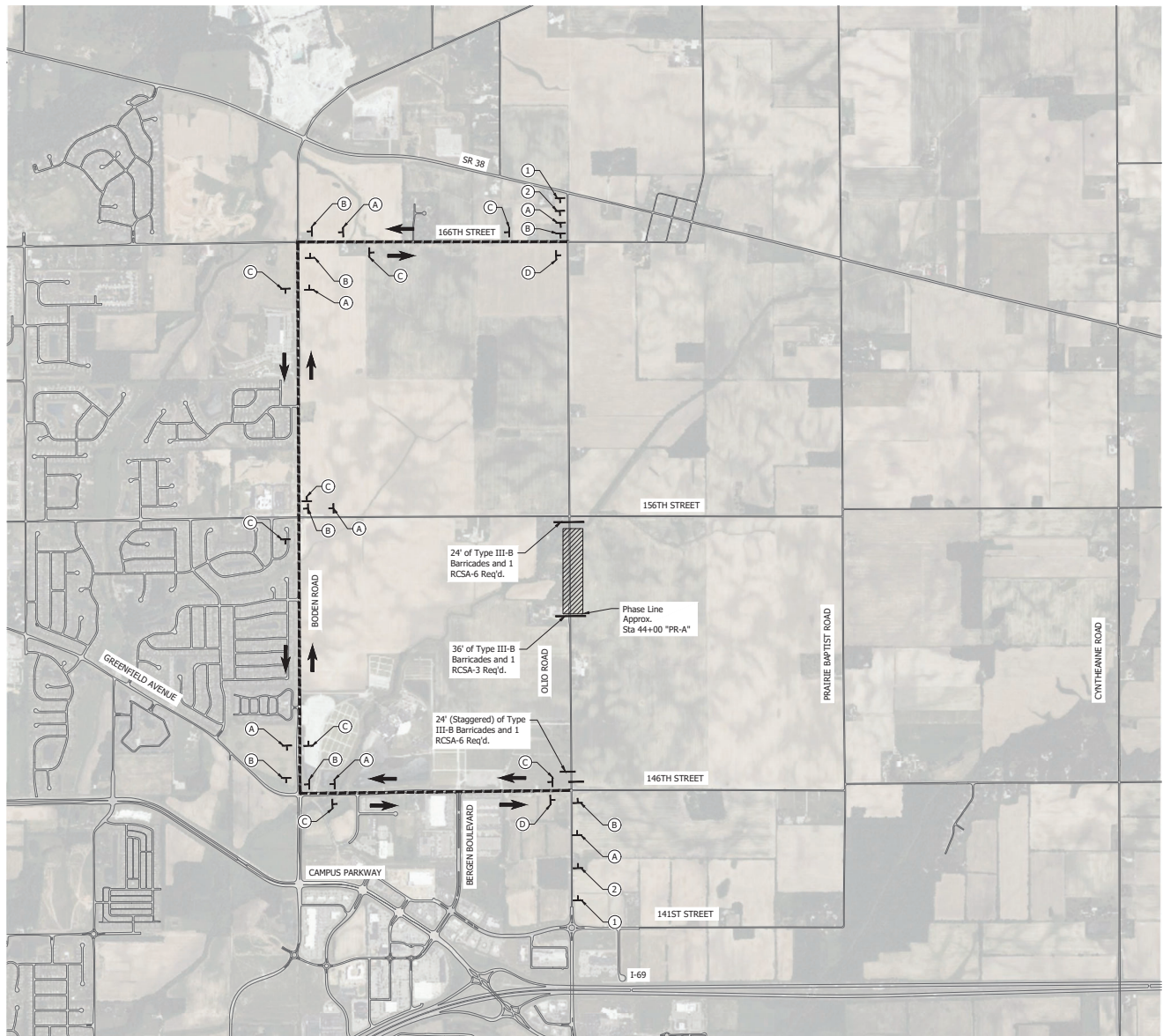
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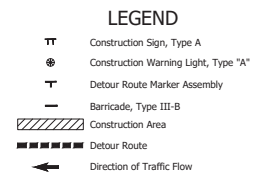
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1 DETOUR ROUTE

HORIZONTAL SCALE	BRIDGE FILE
1" = 1000'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
	11 of 97
CONTRACT	PROJECT
R-44267	2101733



SIGN LEGEND



DETOUR ROUTE MARKER ASSEMBLIES

- (A) Advance Turn D.R.M.A.
- (B) Directional D.R.M.A.
- (C) Confirming D.R.M.A.
- (D) End D.R.M.A.

NOTES: For Detour Route Marker Assemblies See Standard Drawing E801-TCDT-04.

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4. Access to driveways and approaches shall be provided at all times.

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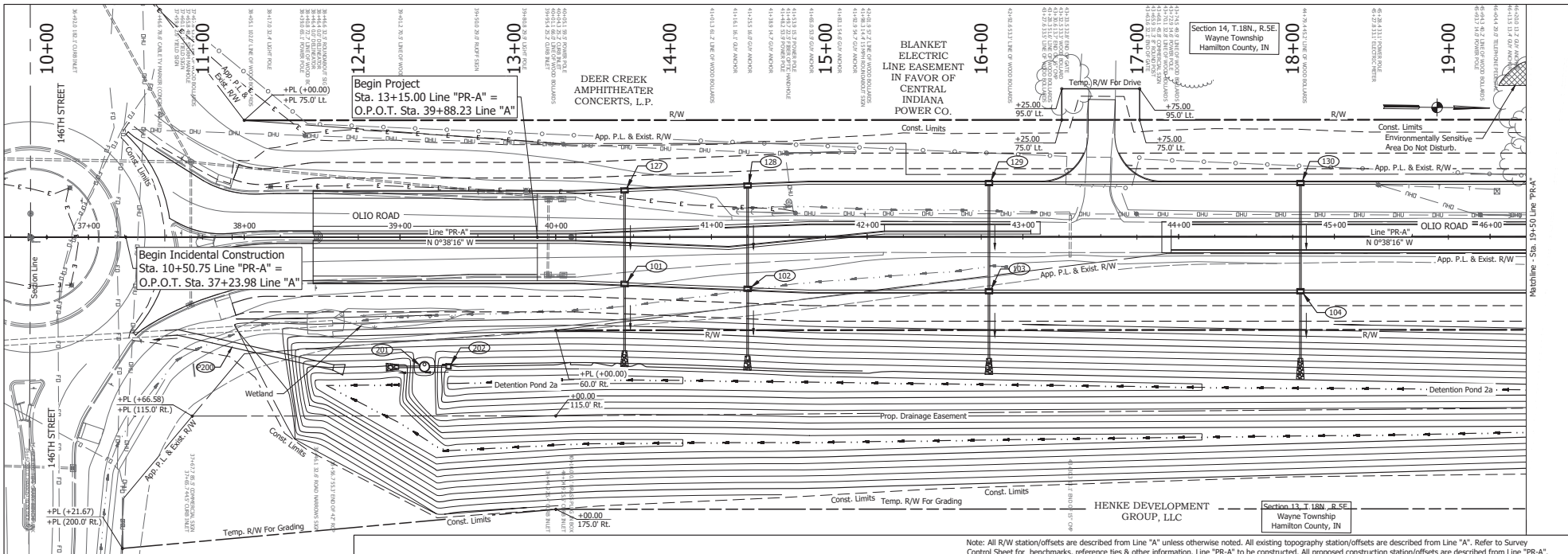
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SCW	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2 DETOUR ROUTE

HORIZONTAL SCALE	BRIDGE FILE
1" = 1000'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
	12 of 97
CONTRACT	PROJECT
R-44267	2101733

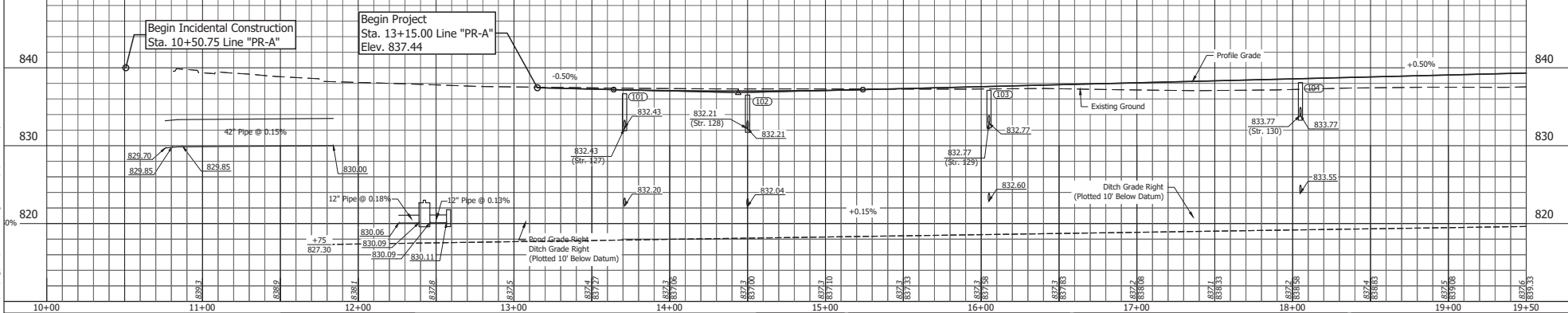


Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".

EARTHWORK SUMMARY TABLE

Common Excavation	= 33,903	Cyd	25% Shrinkage	= 9389	Cyd	Less Common Excavation	= 29,907	Cyd
Line "PR-A"	= 33,903	Cyd						
Less Pymt. Removal	= 3,996	Cyd						
Total Usable Common Exc.	= 29,907	Cyd						
Line "PR-A"	= 37,555	Cyd	Total Fill	= 46,944	Cyd	Borrow	= 17,037	Cyd

PVI STA. = 14+44.00
 PVI ELEV. = 836.80
 V.C. = 160'



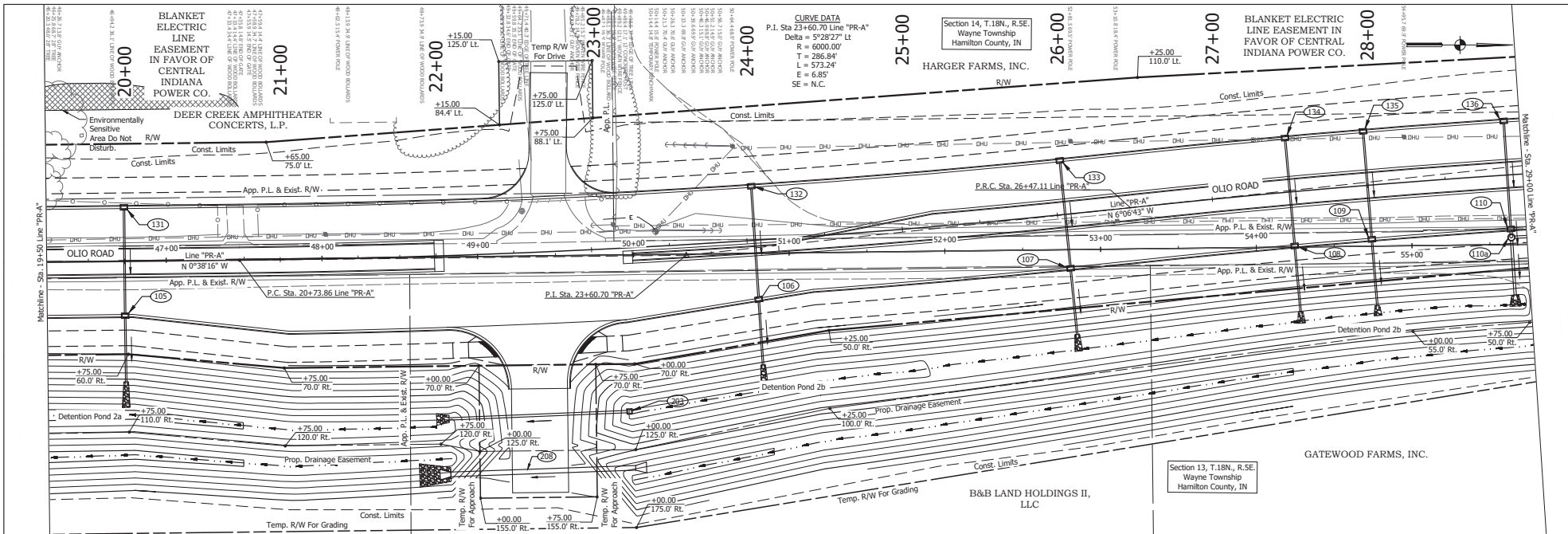
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RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: TBL DRAWN: HSW
 CHECKED: CCR CHECKED: CCR

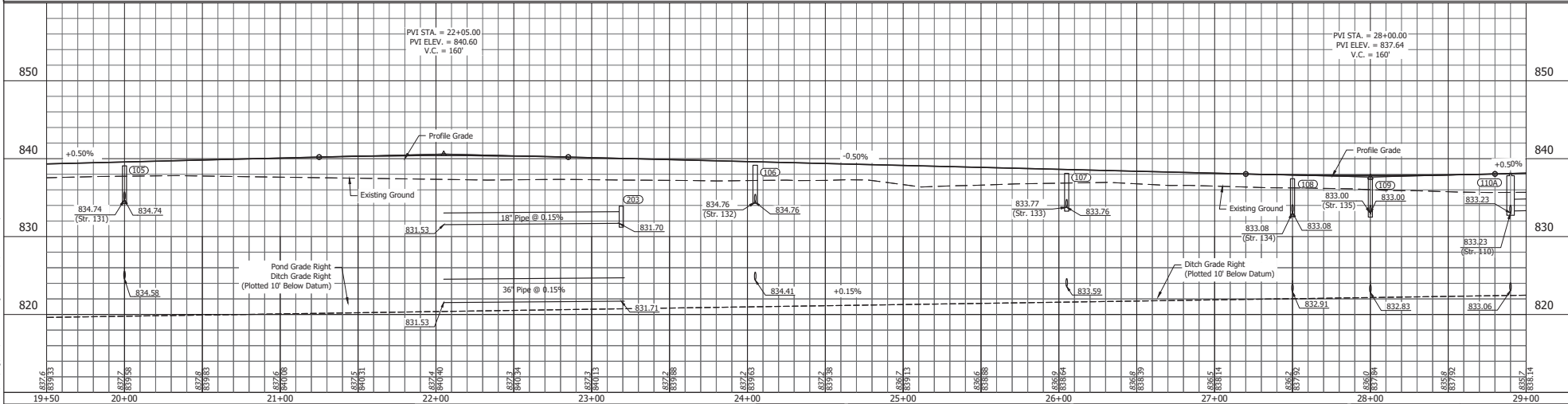
INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAN AND PROFILE
 LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 6'	2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	13 1 97
	PROJECT 2101733

File Name: P:\02\2101733\425118.dwg; Plot Date: 10/20/2010 10:58:11 AM; Plot Scale: 1"=30'; Plot Sheet: 13 of 13



Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".



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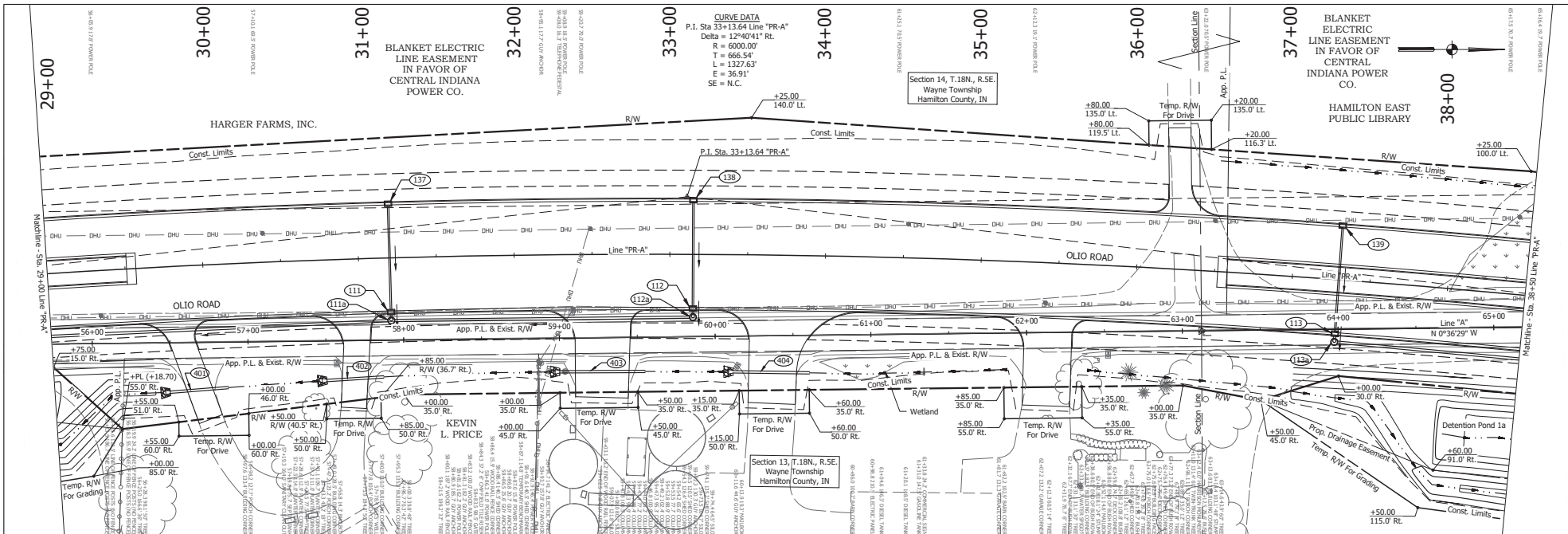
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

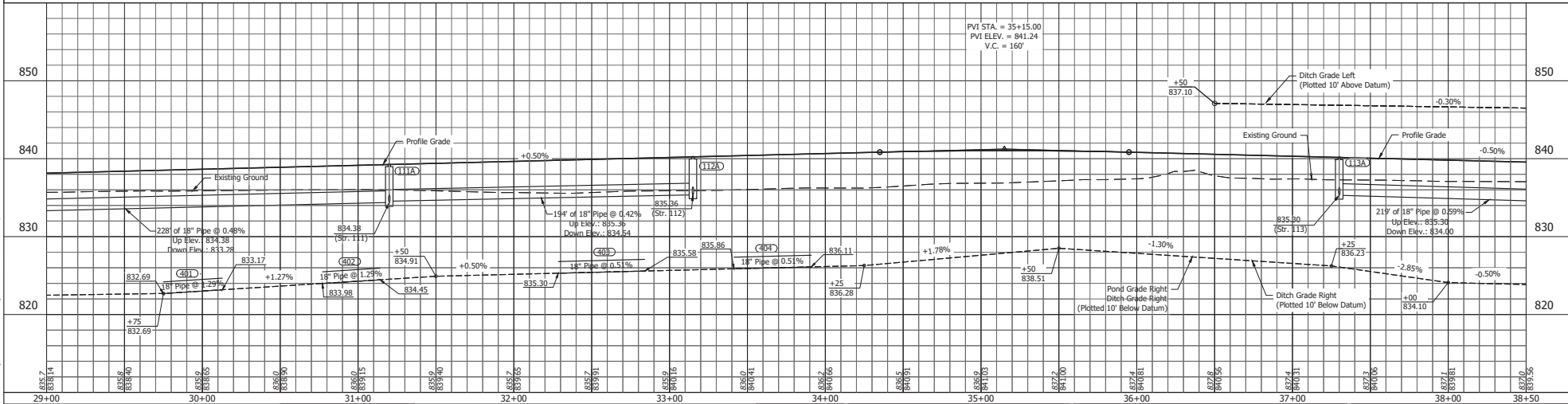
PLAN AND PROFILE
LINE "PR-A"

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VERTICAL SCALE 1" = 6'	DESIGNATION 2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	14 97
	PROJECT 2101733

File Name: P:\02\2502\2502.dwg, Date: 02/25/2015 10:44:14 AM, User: jay.davis



Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "PR-A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".



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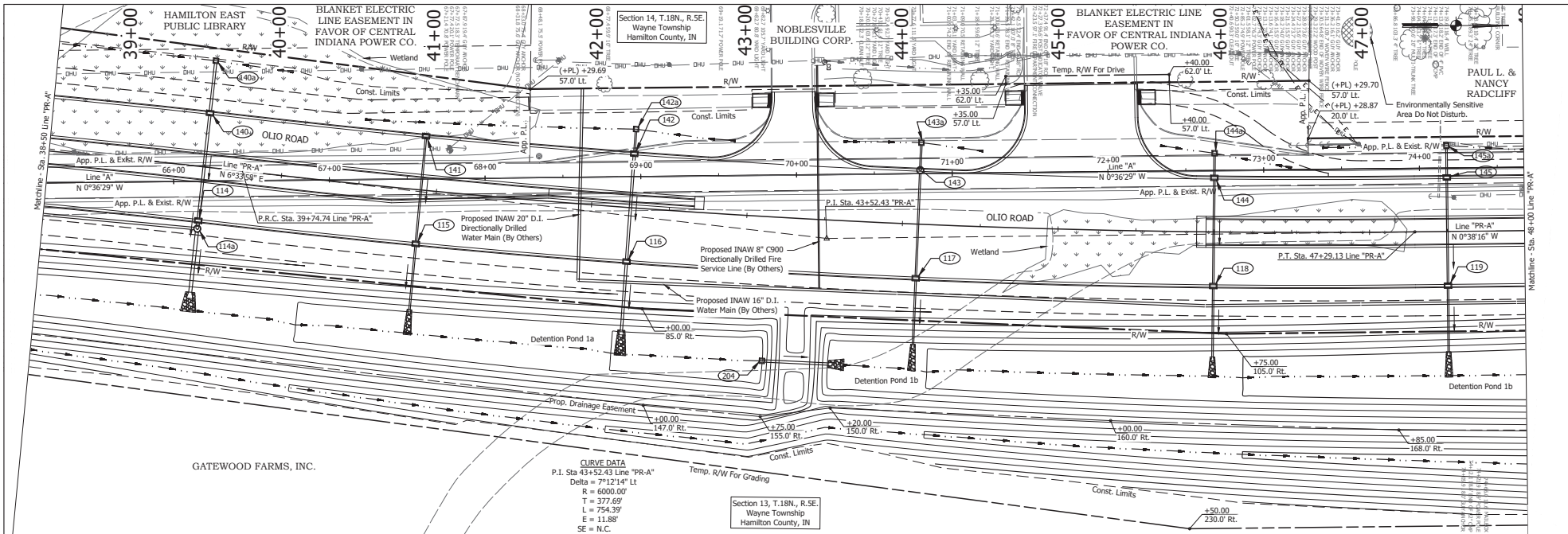
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DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "PR-A"

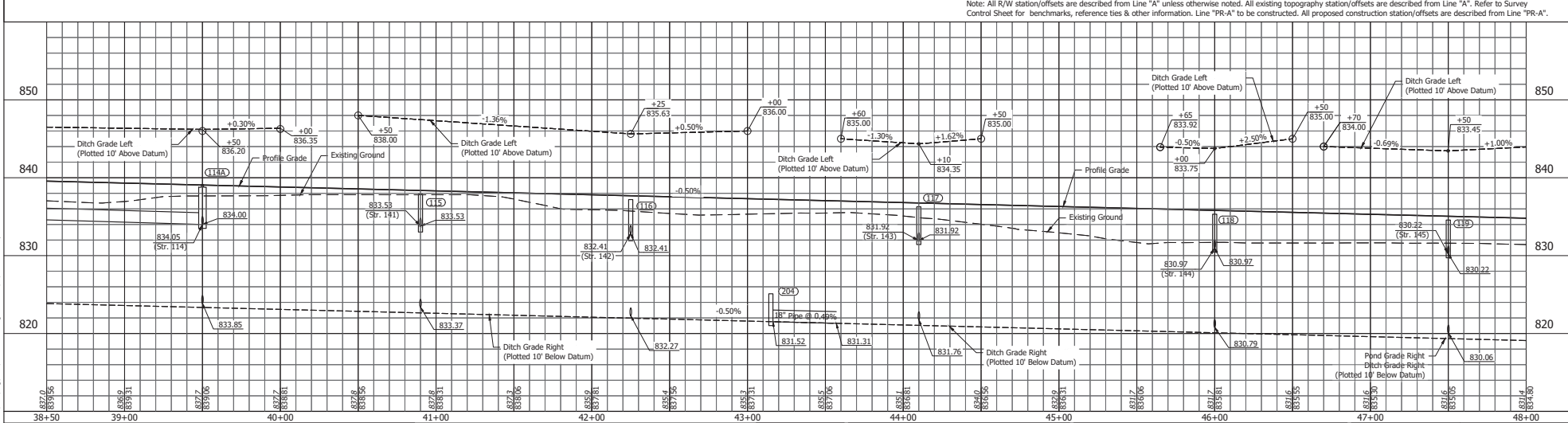
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1" = 30'	
VERTICAL SCALE	DESIGNATION
1" = 6'	2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	15 OF 97
	PROJECT 2101733

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CURVE DATA
 P.I. Sta 43+52.43 Line "PR-A"
 Delta = 7°12'14" Lt
 R = 6000.00'
 T = 372.69'
 L = 754.39'
 E = 11.88'
 SE = N.C.

Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".



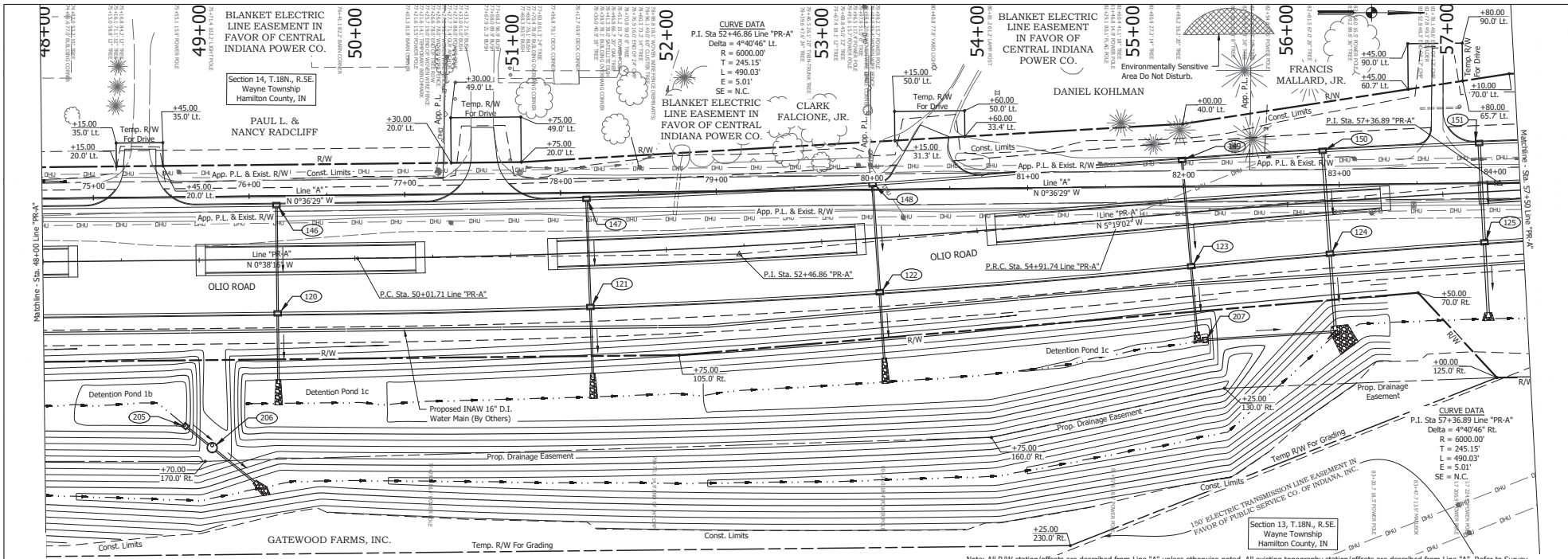
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

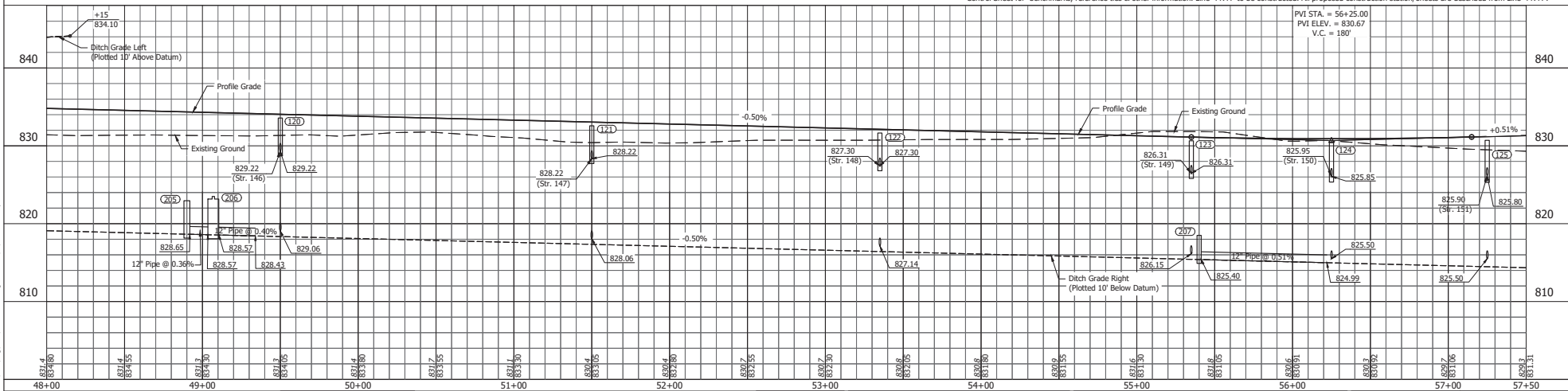
INDIANA
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
1" = 6'	2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	16 OF 97
	PROJECT 2101733



Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".



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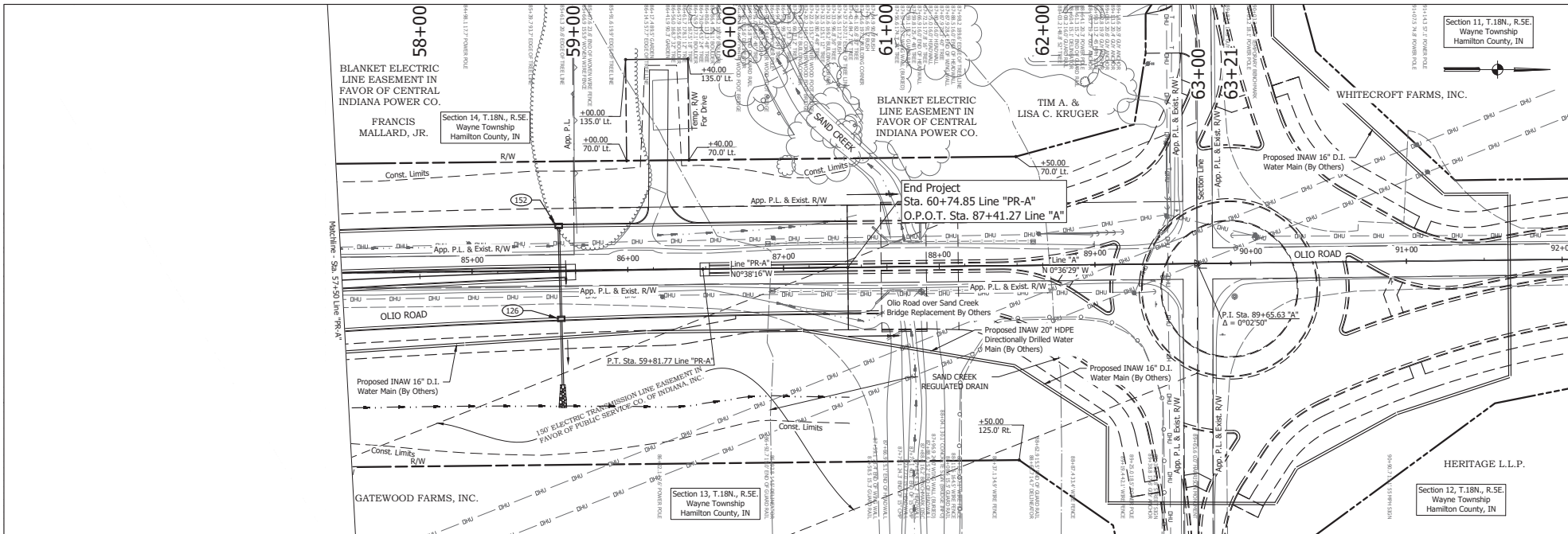
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DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
 DEPARTMENT OF TRANSPORTATION

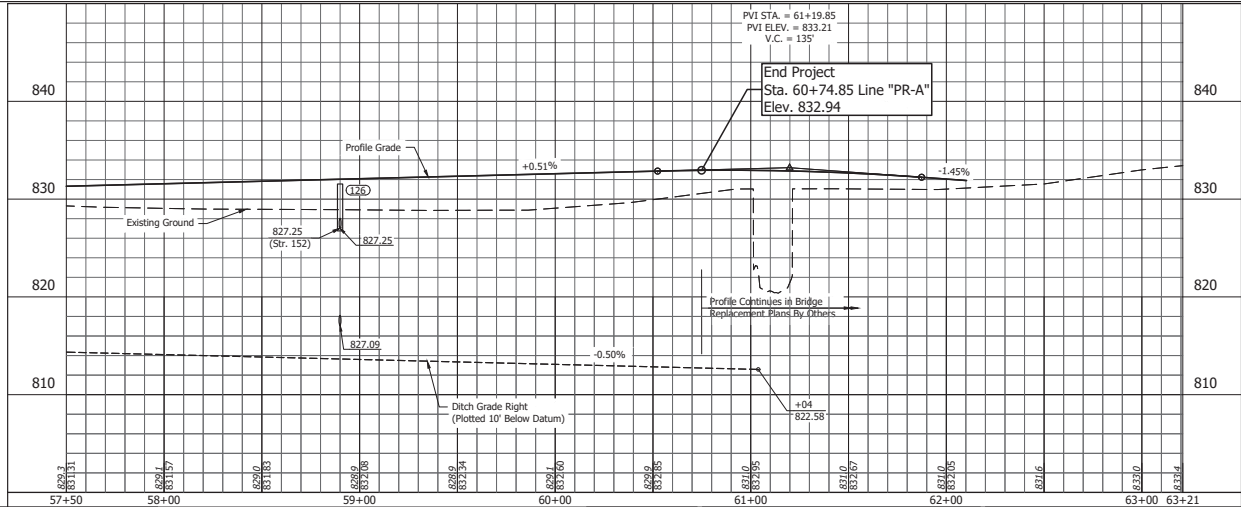
PLAN AND PROFILE
 LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
1" = 6'	2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	17 1 97
	PROJECT
	2101733

File Name: P:\02\25025427_01_00\02\02\pr-a\pr-a.dwg Date: 10/20/2010 Plotter: Pn - This is a test plot.



Note: All R/W station/offsets are described from Line "A" unless otherwise noted. All existing topography station/offsets are described from Line "A". Refer to Survey Control Sheet for benchmarks, reference ties & other information. Line "PR-A" to be constructed. All proposed construction station/offsets are described from Line "PR-A".



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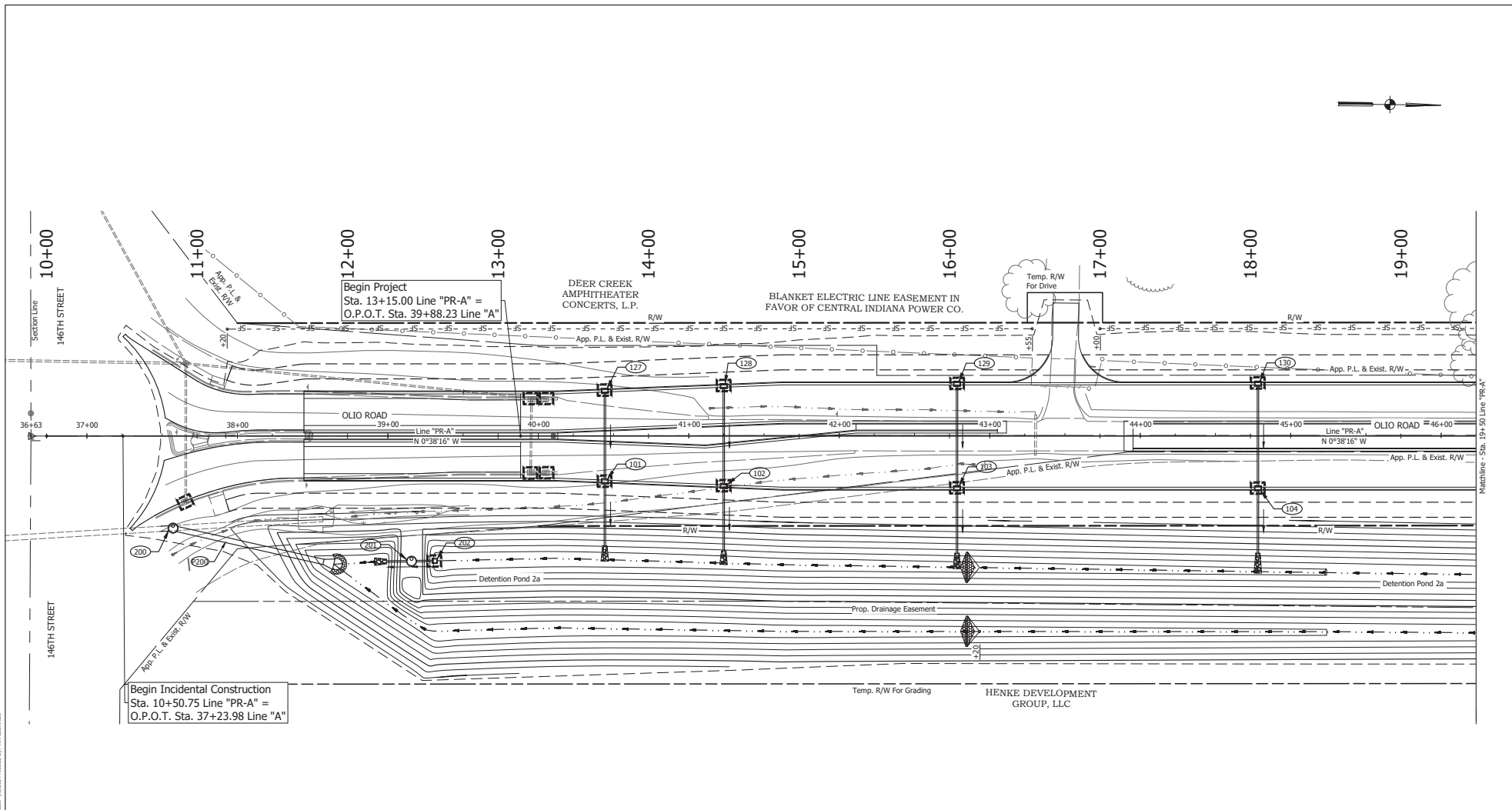
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "PR-A"

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE
VERTICAL SCALE 1" = 6'	DESIGNATION 2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	18 OF 97
	PROJECT 2101733



Begin Project
Sta. 13+15.00 Line "PR-A" =
O.P.O.T. Sta. 39+88.23 Line "A"

Begin Incidental Construction
Sta. 10+50.75 Line "PR-A" =
O.P.O.T. Sta. 37+23.98 Line "A"

TEMPORARY EROSION CONTROL NOTES

- Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
- Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
- Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading.
- Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
- Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
- Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Silt Fence
- Culvert Pipe Protection
- Filter Sock



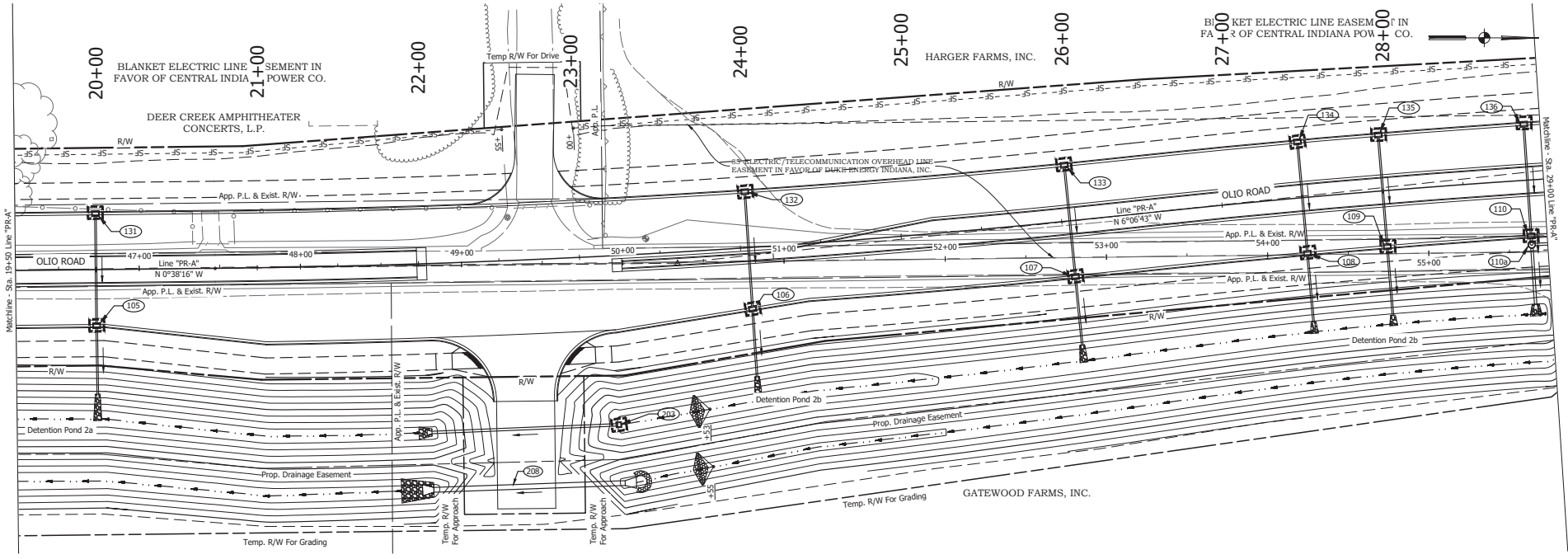
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY EROSION & SEDIMENT CONTROL DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
25	97
CONTRACT	PROJECT
R-44267	2101733

File Name: P:\101252\101252.dwg Plot Date: 10/20/11 11:58:11 AM By: jms



TEMPORARY EROSION CONTROL NOTES

1. Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
2. Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
3. Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading
4. Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
5. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
6. Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Culvert Pipe Protection
- Silt Fence
- Filter Sock



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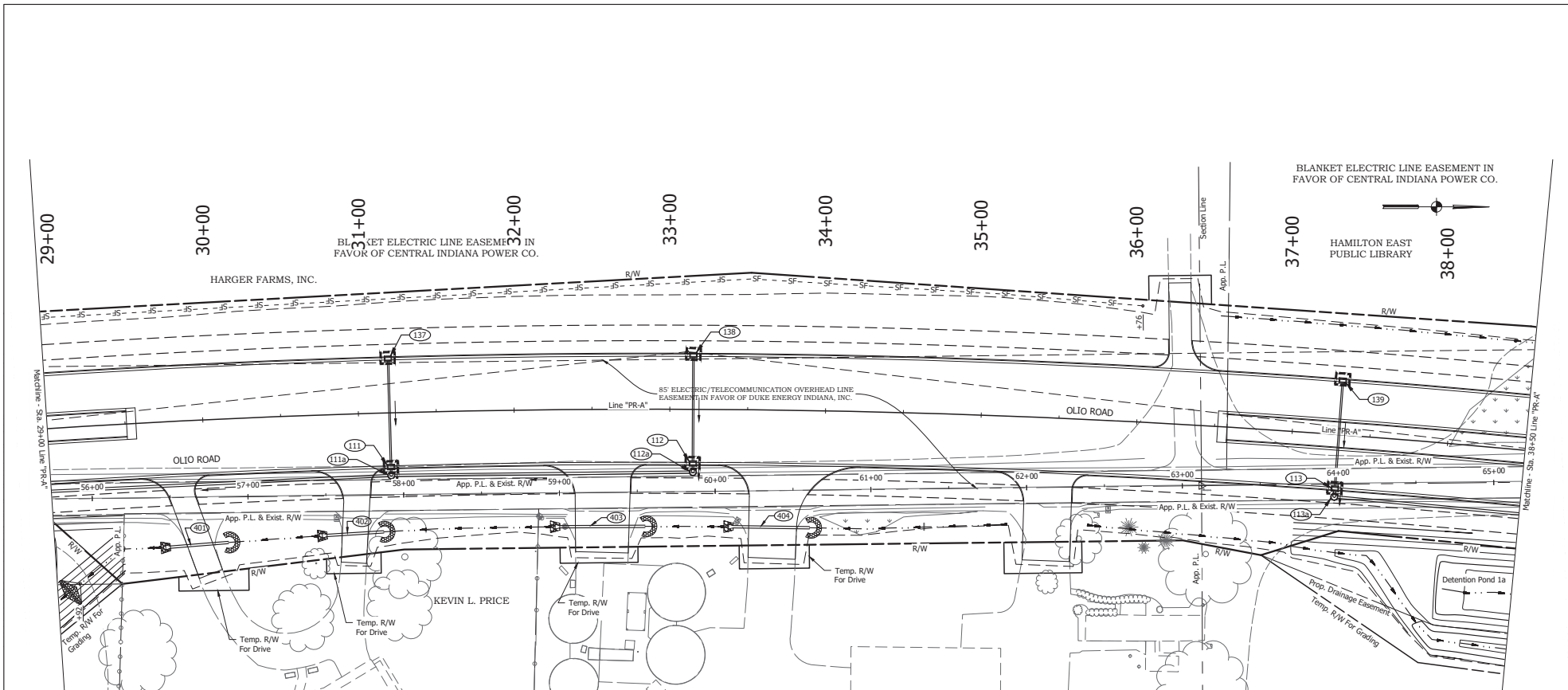
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
26	97
CONTRACT	PROJECT
R-44267	2101733

File Name: P:\2022\22-042 - Olivo Road\Drawings\Proposed\Construction\TBL.dwg, Plot Date: 6/20/24, Plotted By: Tim Lammiman



TEMPORARY EROSION CONTROL NOTES

1. Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
2. Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
3. Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading.
4. Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
5. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
6. Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Silt Fence
- Culvert Pipe Protection
- Filter Sock

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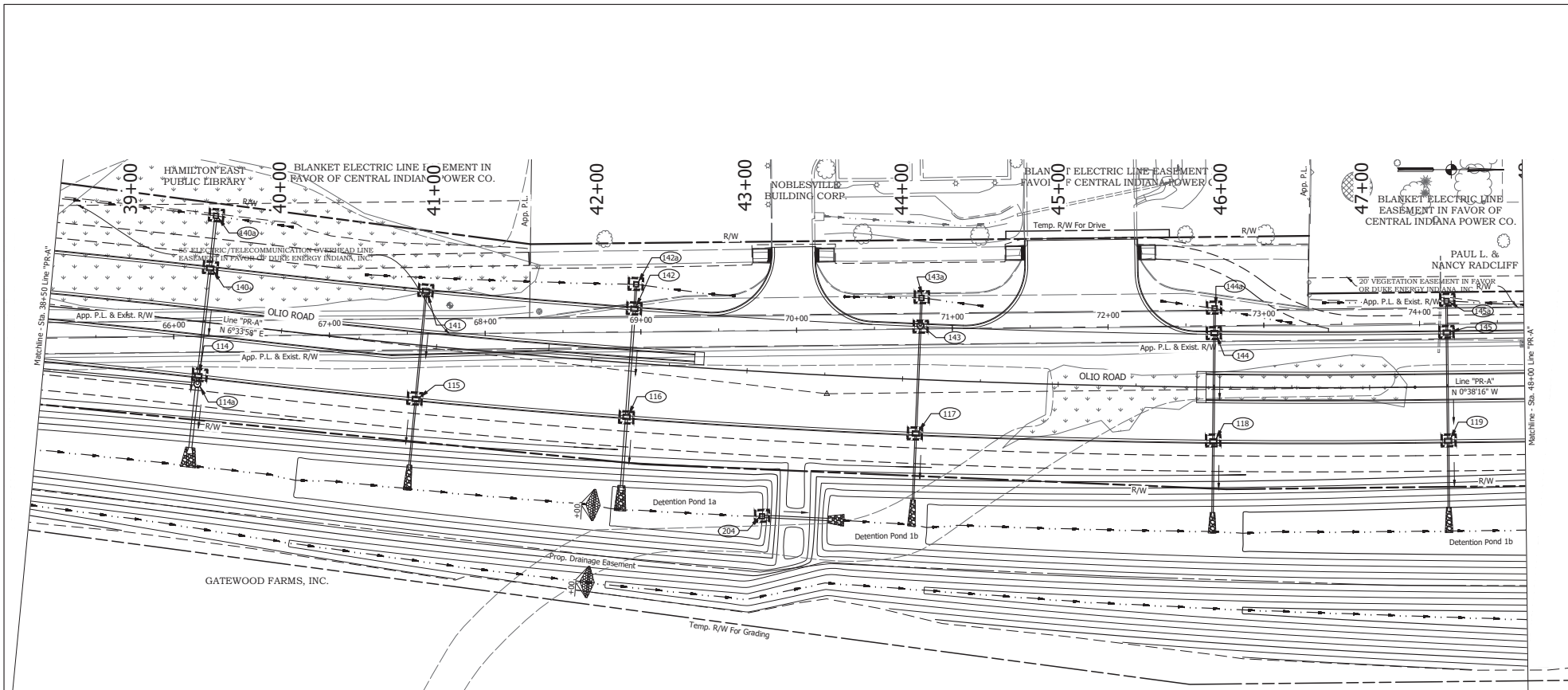


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DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY EROSION & SEDIMENT CONTROL DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
27	97
CONTRACT	PROJECT
R-44267	2101733



TEMPORARY EROSION CONTROL NOTES

1. Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
2. Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
3. Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading.
4. Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
5. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
6. Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Culvert Pipe Protection
- Silt Fence
- Filter Sock

File Name: P:\02\210733\210733.dwg Plot Date: 07/20/21 10:58:11 AM

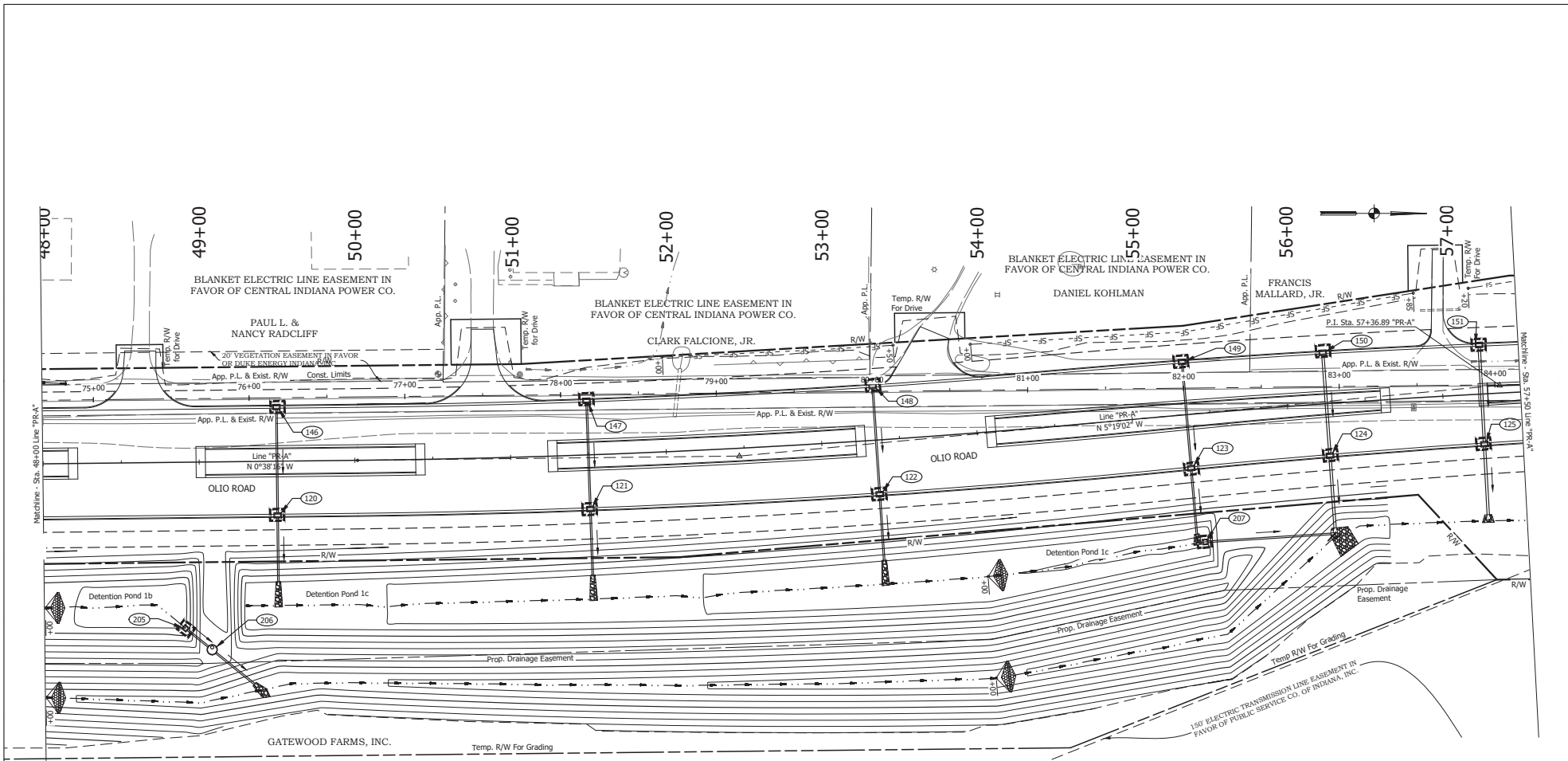


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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
TEMPORARY EROSION & SEDIMENT CONTROL DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
28	97
CONTRACT	PROJECT
R-44267	2101733



TEMPORARY EROSION CONTROL NOTES

1. Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
2. Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
3. Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading.
4. Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
5. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
6. Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Silt Fence
- Culvert Pipe Protection
- Filter Sock



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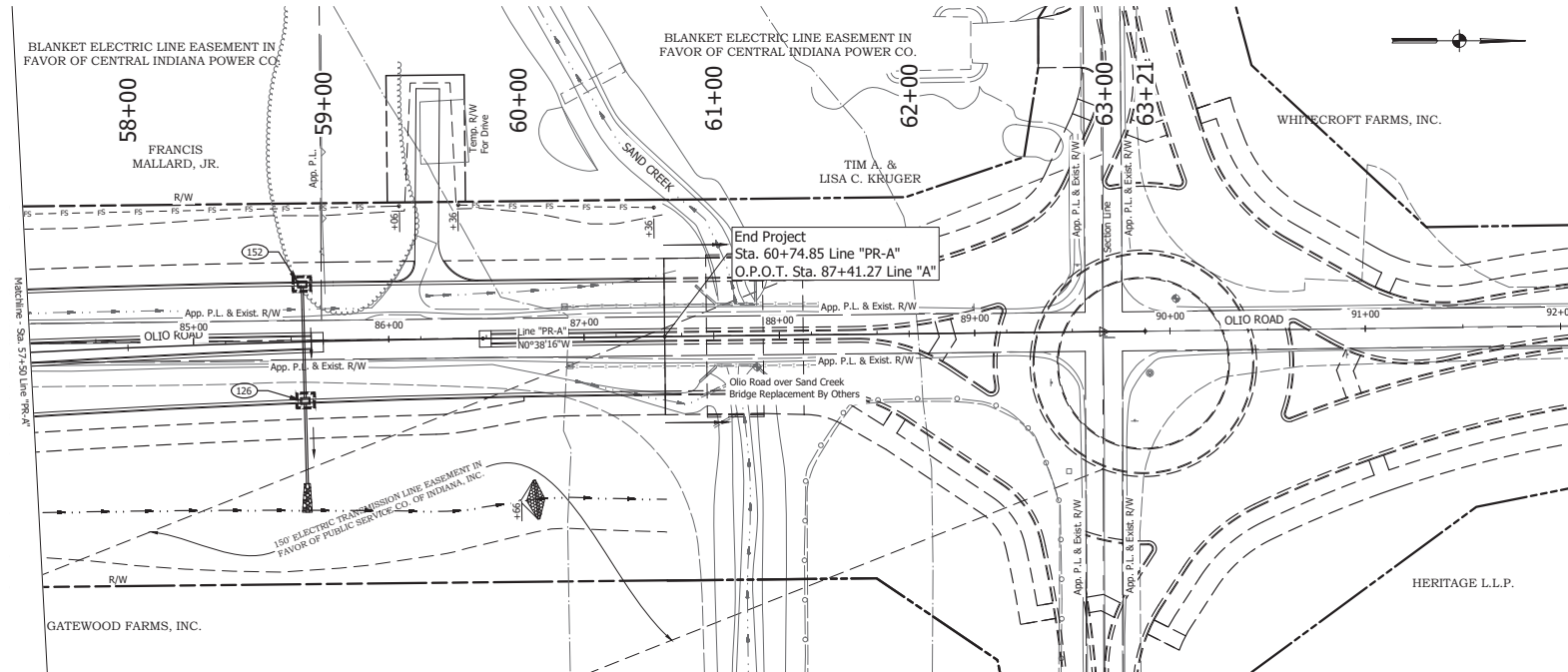
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DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT R-44267	29 97
	PROJECT 2101733

File Name: P:\2101733\2101733-01.dwg Plot Date: 05/20/2014 10:58:11 AM Plot By: jhs



TEMPORARY EROSION CONTROL NOTES

- Inlet protection and silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
- Inlet protection shall be provided for all existing & proposed inlets within the construction limits.
- Ditch sloped of 3:1 or greater shall be immediately seeded upon completion of grading.
- Temporary seeding shall be placed on disturbed areas that are expected to be undisturbed for over 7 days.
- Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
- Permanent erosion control measure are not shown in these details. Refer to Plan & Profile sheets for permanent erosion control measures.

TEMPORARY EROSION CONTROL LEGEND

- Inlet Protection
- Proposed Ditch Flow Line
- Modified Check Dam, Revetment Riprap
- Silt Fence
- Culvert Pipe Protection
- Filter Sock



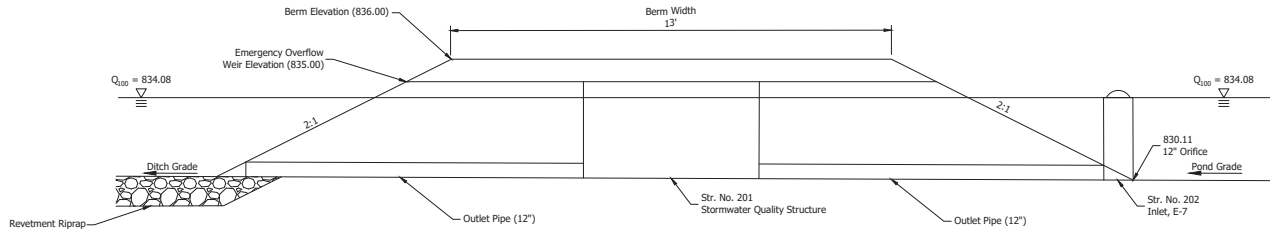
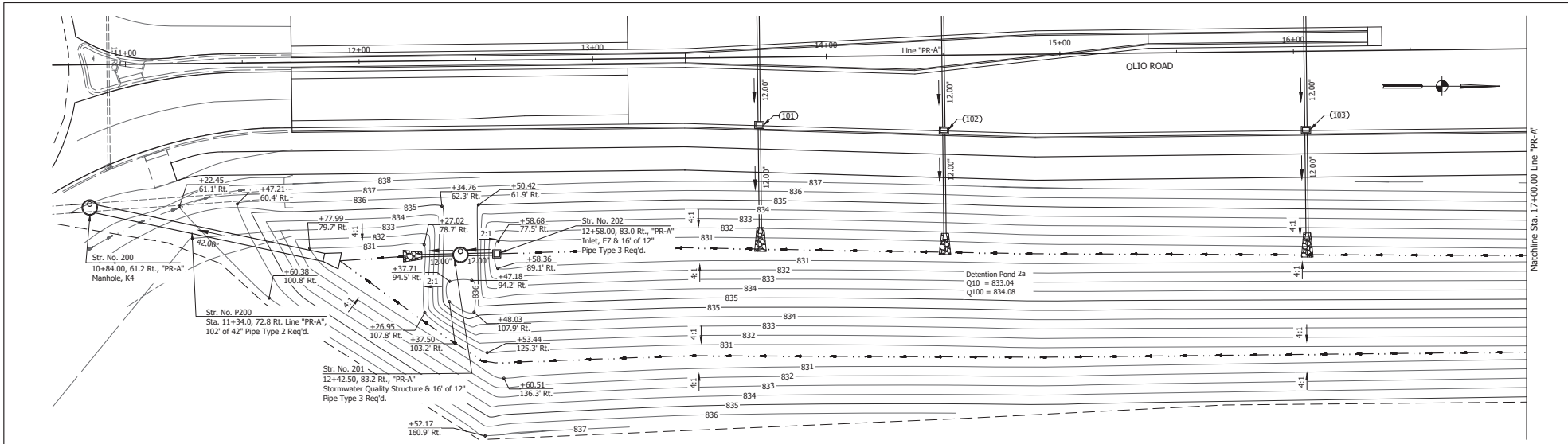
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION & SEDIMENT CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
30	97
CONTRACT	PROJECT
R-44267	2101733



POND 2a OVERFLOW BERM DETAIL
N.T.S.

File Name: P:\102102102-242-08-2007\Drawings\Stormwater\Detailing\PCr Files\102102102.dwg Plot Date: 10/20/14 8:58:54 AM By: Tim Lovelace



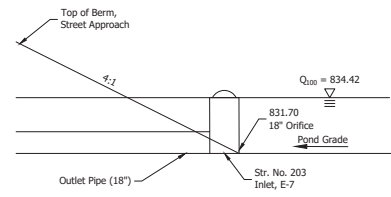
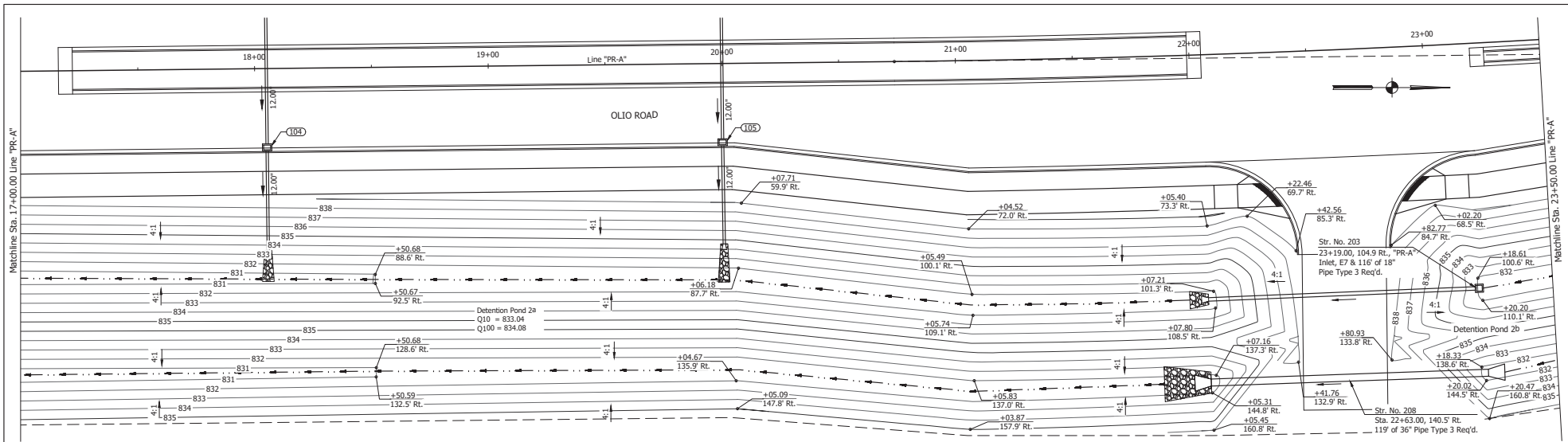
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

DETENTION POND DETAILS
POND 2

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
-	31 of 97
CONTRACT	PROJECT
R-44267	2101733



POND 2b OUTLET STRUCTURE DETAIL
N.T.S.

File Name: I:\10\2101733\2101733-02-Detention Pond\Drawings\Plan\Drawings\2101733-02-Detention Pond.dwg Plot Date: 10/23/2014 10:54:16 AM By: Tim Lovelace



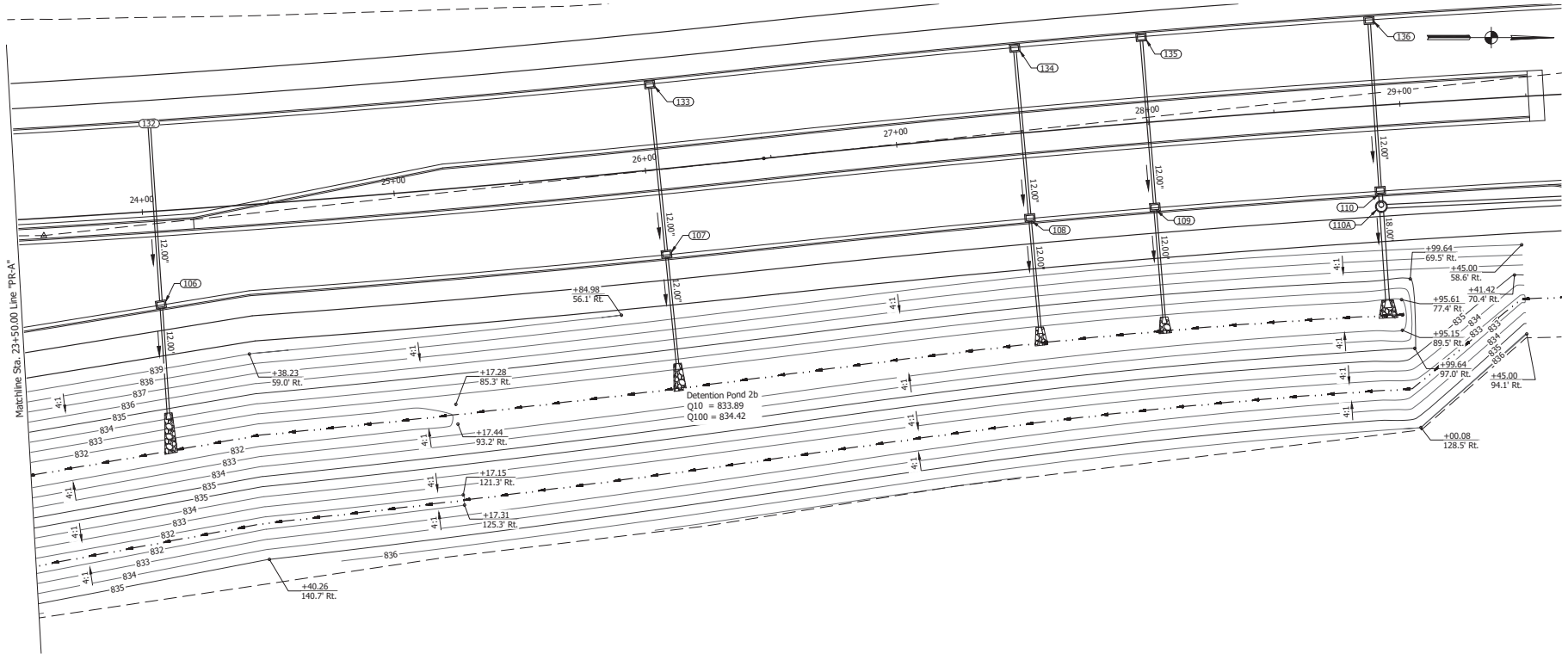
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

DETENTION POND DETAILS
POND 2

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT	32
R-44267	97
	PROJECT
	2101733



Matchline Sta. 23+50.00 Line "PR-A"

Detention Pond 2b
 Q10 = 833.89
 Q100 = 834.42

File Name: F:\03\2101733\2101733-02-Detention Pond\Drawings\2101733-02-Detention Pond.dwg Plot Date: 10/20/2014 10:58:14 AM By: Tim Lovelace



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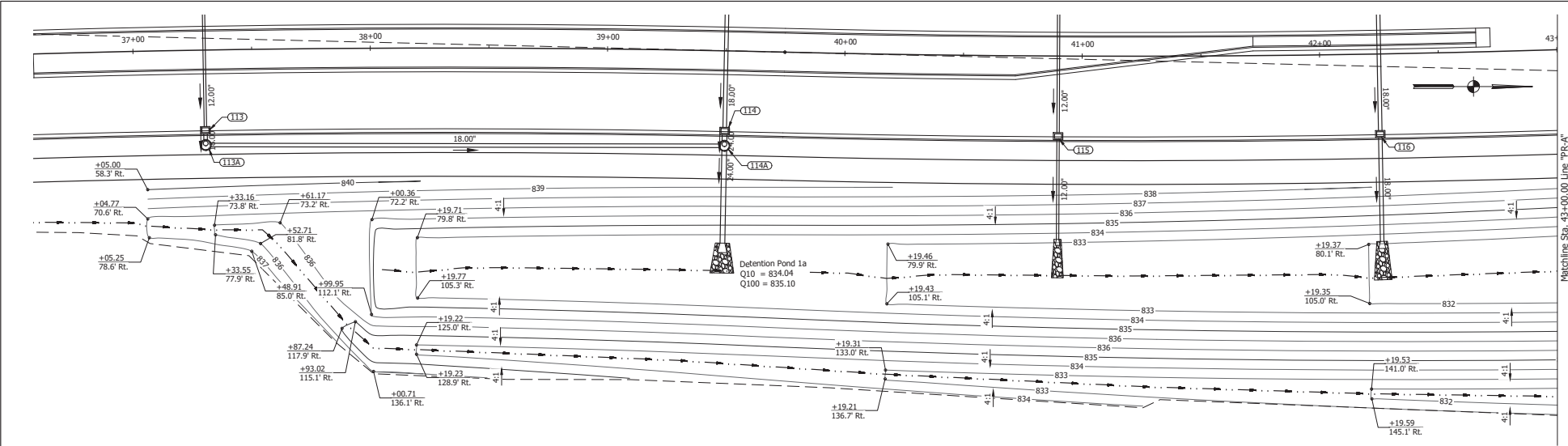
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DESIGNED: TBL	DRAWN: HSW	
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INDIANA
 DEPARTMENT OF TRANSPORTATION

DETENTION POND DETAILS
 POND 2

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT	33
R-44267	97
	PROJECT
	2101733

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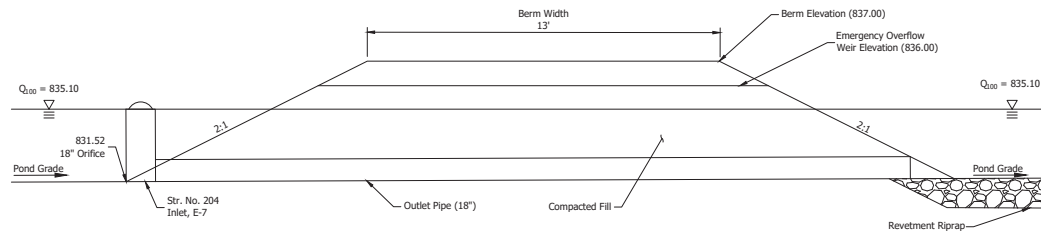
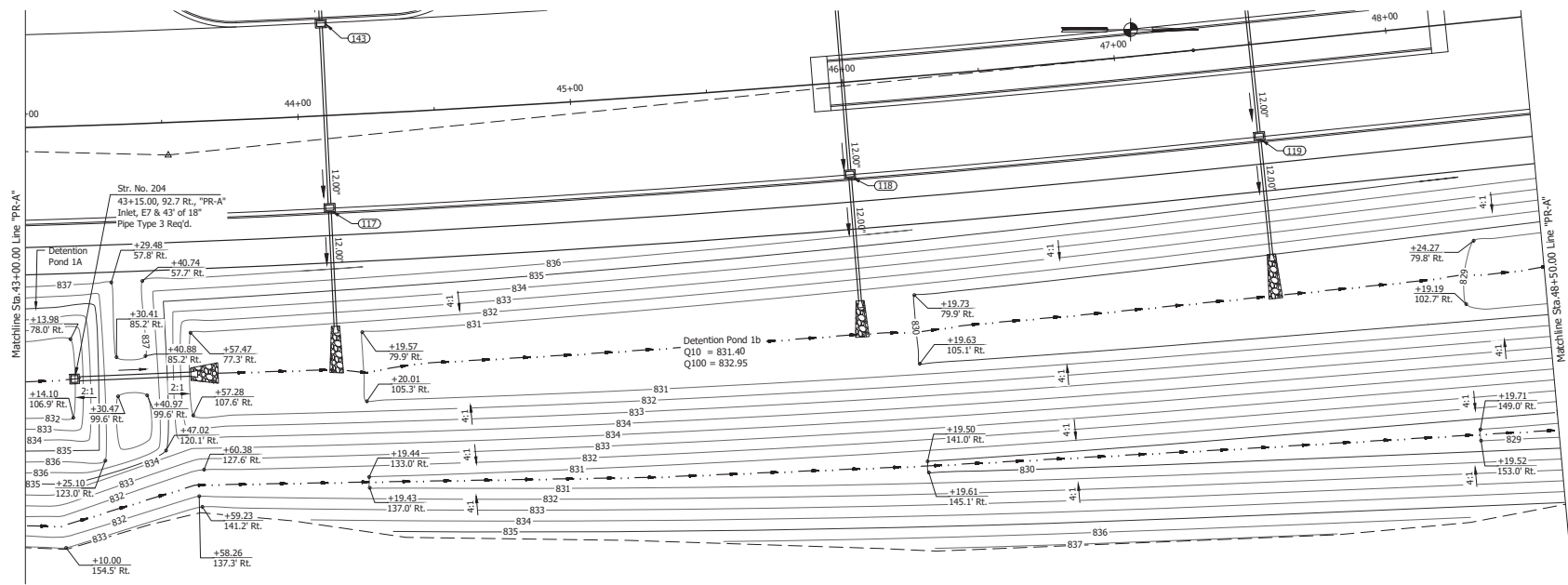
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

DETENTION POND DETAILS
POND 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT	34
R-44267	97
	PROJECT
	2101733



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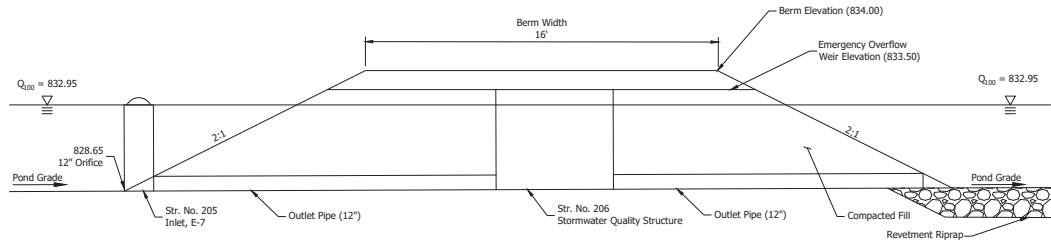
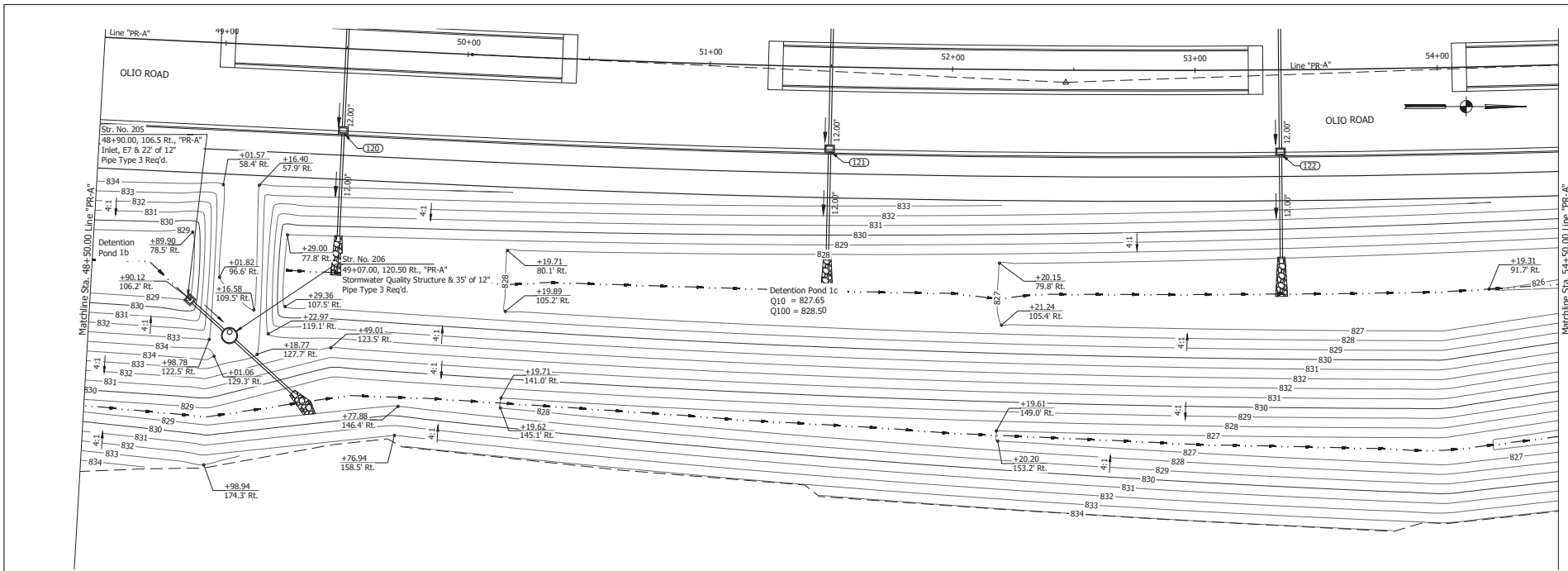


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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
DETENTION POND DETAILS POND 1	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
35	97
CONTRACT	PROJECT
R-44267	2101733



POND 1b OVERFLOW BERM DETAIL
N.T.S.

File Name: F:\10121212-242-08-2007\Drawings\Stormwater\Detailing\1b.dwg Plot Date: 10/20/14 8:00 AM By: Tim Lovelace



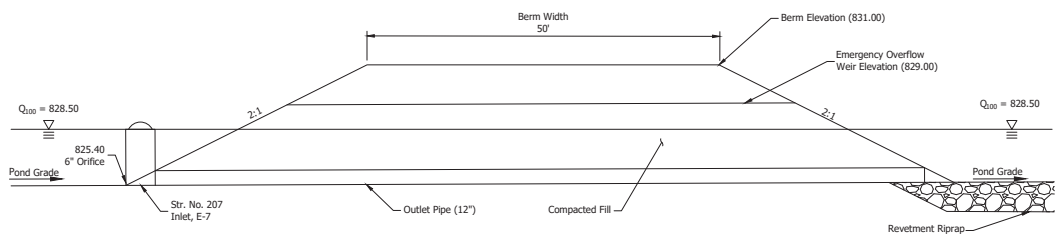
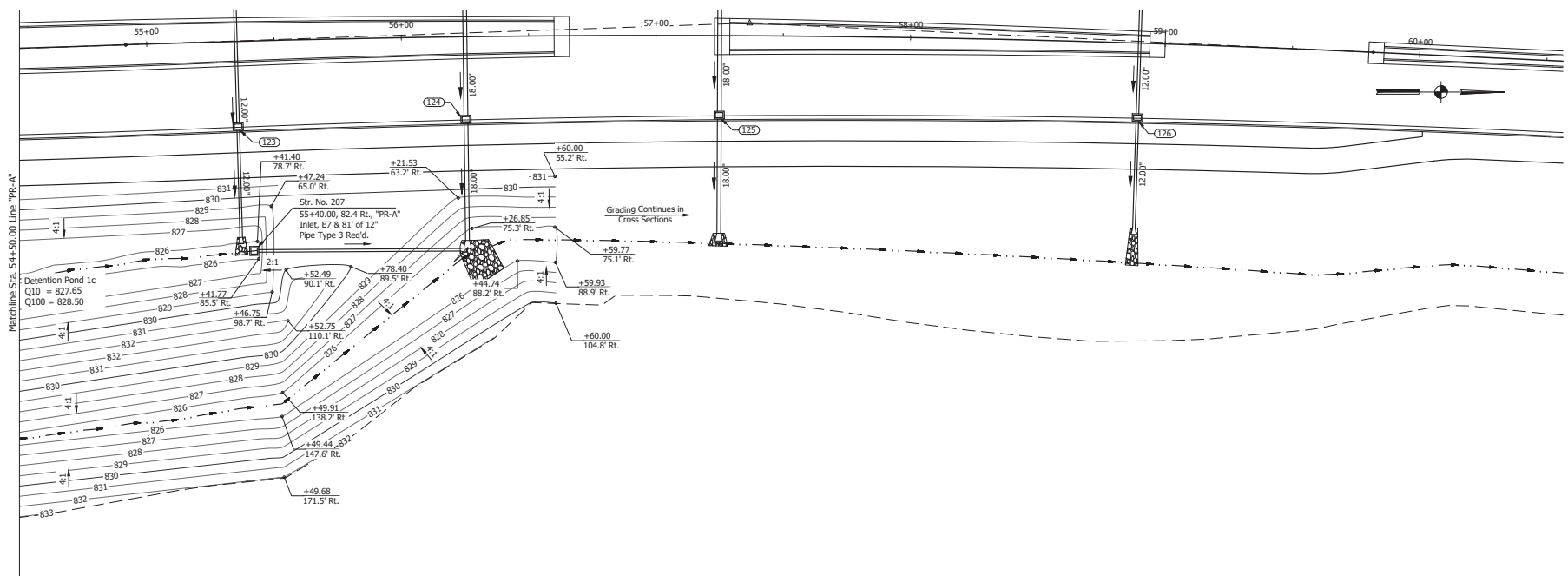
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

DETENTION POND DETAILS
POND 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
36	1 of 97
CONTRACT	PROJECT
R-44267	2101733



POND 1c OVERFLOW BERM DETAIL
 N.T.S.

File Name: P:\10213123-2402_08_road\Drawings\Aerial\Drawings\Detail\Drawings\Detail.dwg Plot Date: 10/20/14 8:08:54 AM By: Tim Lovelace



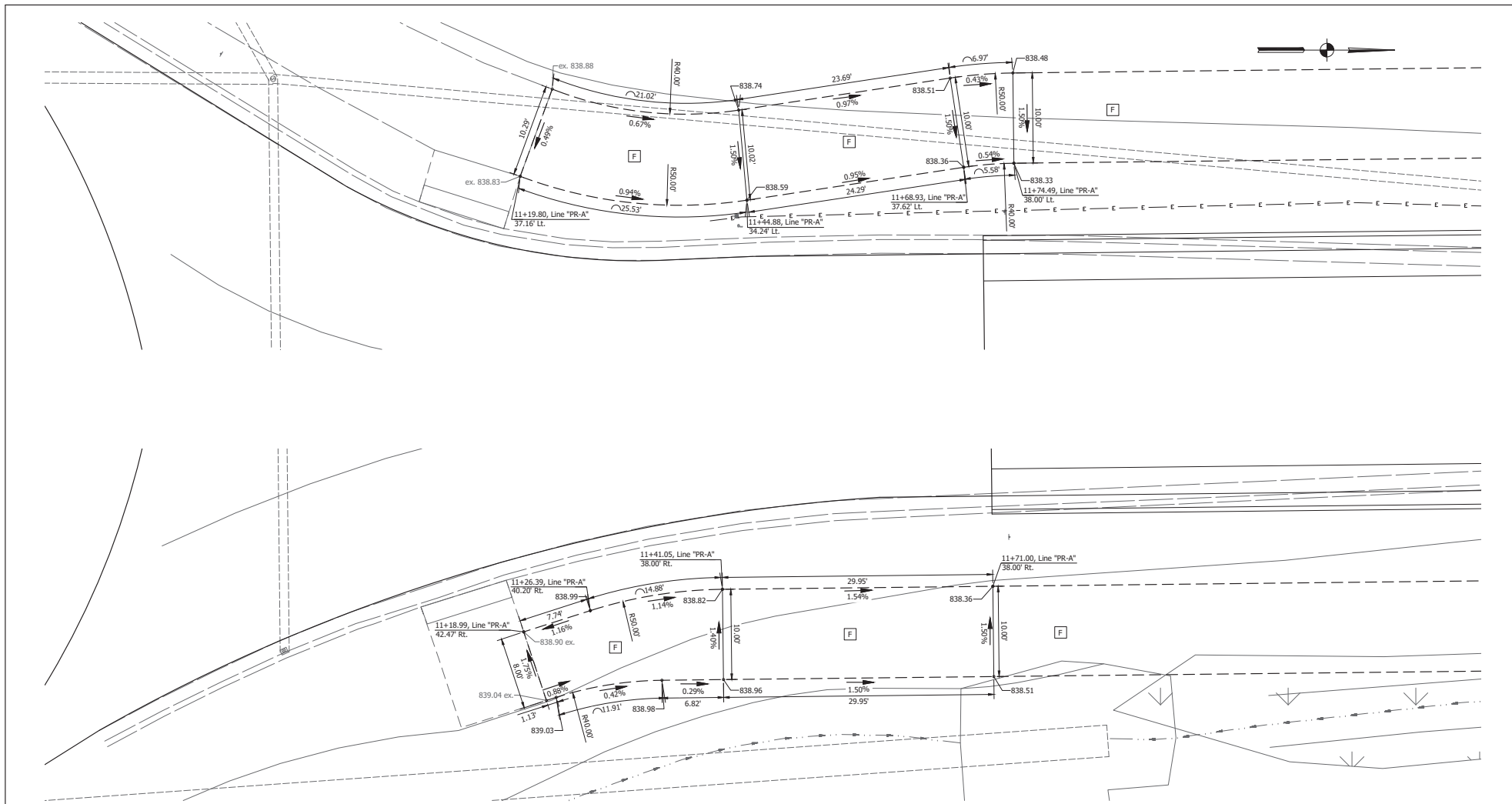
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
DETENTION POND DETAILS POND 1	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
-	37
CONTRACT	PROJECT
R-44267	2101733

File Name: P:\RD\3022-422 Olo Road\Road\Plans\Grading and Curb Ramp Details Olo.dwg Plot Date: 4/5/2024 Plotted By: Tim Lemehus

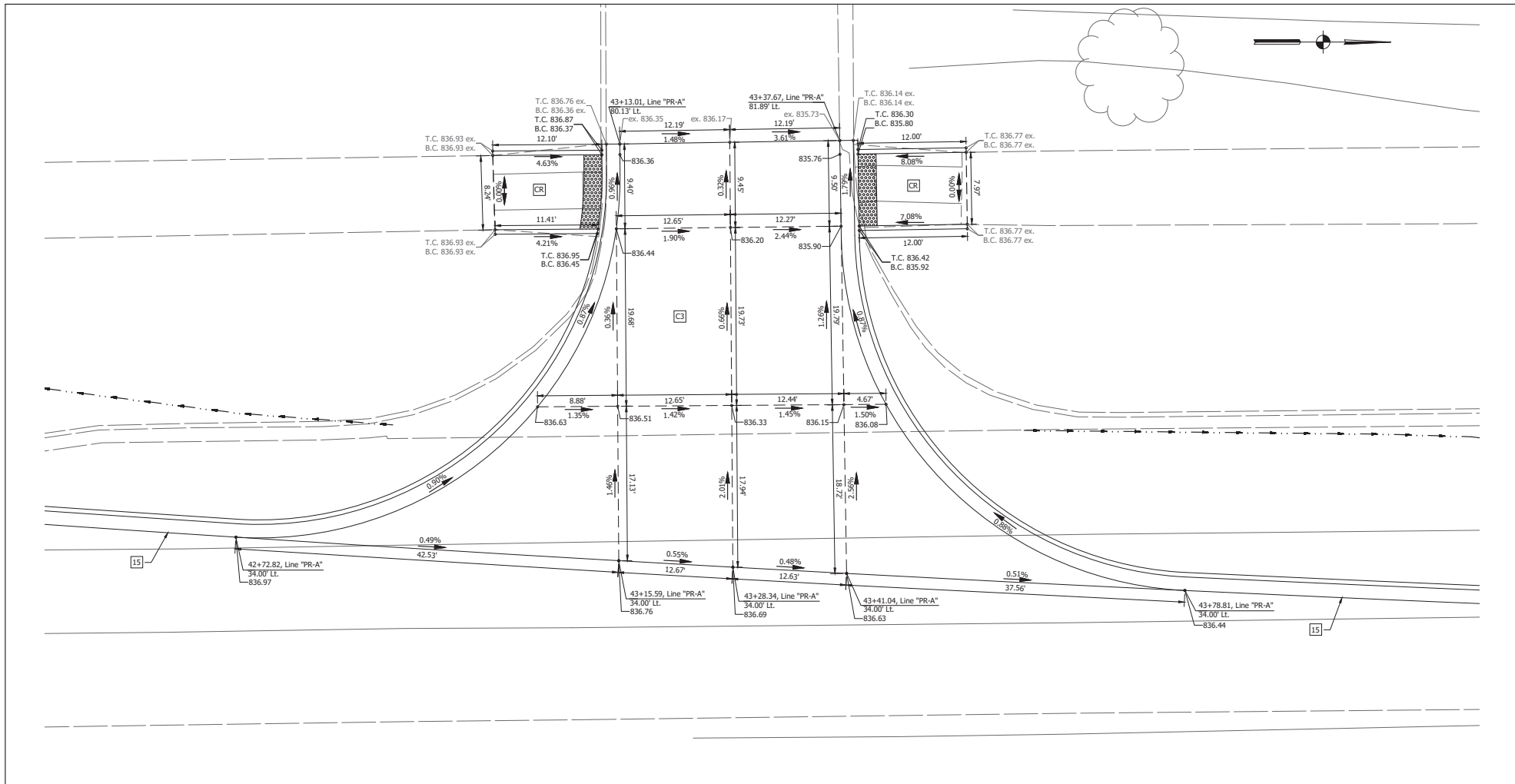


LEGEND

- C3 PCCP For Approaches, 9" on Dense Graded Subbase, 6" on Geogrid Type IB on Subgrade Treatment Type II
- D 12" Compacted Aggregate, No. 2 on Geotextile for Pavement, Type 1A
- K2 HMA For Approaches, Type C
165 #/Sys HMA Surface, Type C on
275 #/Sys HMA Intermediate, Type C on
440 #/Sys HMA Base, Type C on
660 #/Sys HMA Base, Type C on
Subgrade Treatment, Type IC
- 15 Curb and Gutter, Concrete, Type II
- CR Curb Ramp, Concrete
- F Sidewalk To Be Constructed If Funds Become Available

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 5'	BRIDGE FILE -
		DESIGNED: TBL DRAWN: HSW CHECKED: CCR CHECKED: CCR		VERTICAL SCALE N/A	DESIGNATION 2101733
CURB RAMP AND GRADING DETAILS		SURVEY BOOK 38	SHEETS 97		
		CONTRACT R-44267	PROJECT 2101733		

File Name: P:\RD\3022-422 Olo Road\Road\Plans\Grading and Curb Ramp Details Olo.dwg Plot Date: 4/5/2024 Plotted By: Tim Lemhius



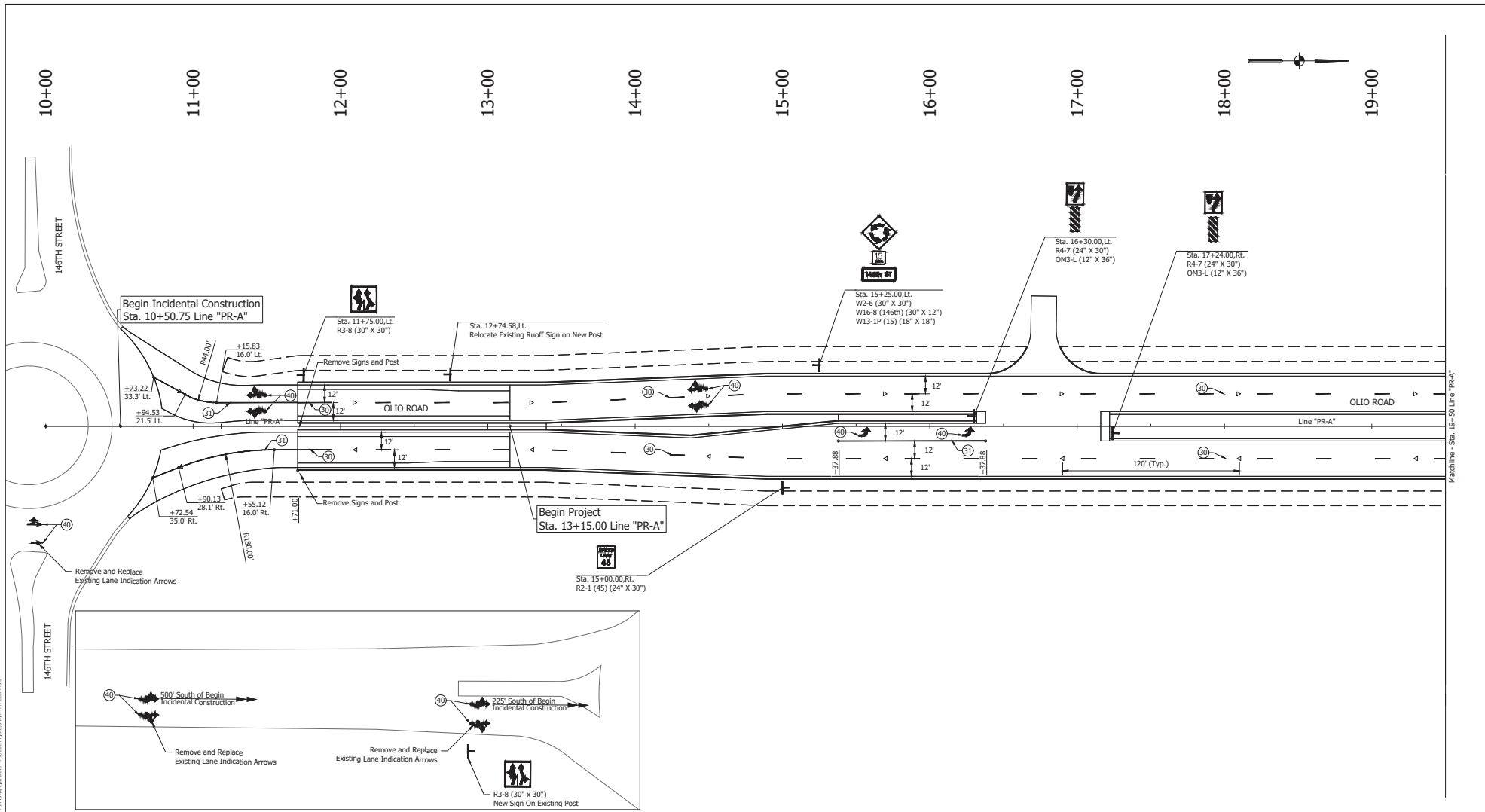
LEGEND

- C1 PCCP For Approaches, 9" on Dense Graded Subbase, 6" on Geogrid Type IB on Subgrade Treatment Type II
- D 12" Compacted Aggregate, No. 2 on Geotextile for Pavement, Type 1A
- K2 HMA For Approaches, Type C
165 #/Sys HMA Surface, Type C on
275 #/Sys HMA Intermediate, Type C on
440 #/Sys HMA Base, Type C on
660 #/Sys HMA Base, Type C on
Subgrade Treatment, Type IC
- 15 Curb and Gutter, Concrete, Type II
- F Sidewalk To Be Constructed If Funds Become Available
- CR Curb Ramp, Concrete

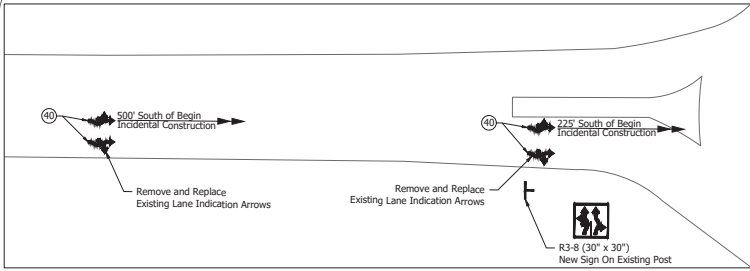
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____
DESIGNED: TBL	DRAWN: HSW
CHECKED: CCR	CHECKED: CCR

INDIANA	
DEPARTMENT OF TRANSPORTATION	
CURB RAMP AND GRADING DETAILS	

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE -
VERTICAL SCALE N/A	DESIGNATION 2101733
SURVEY BOOK CONTRACT R-44267	SHEETS 41 of 97 PROJECT 2101733



File Name: P:\101252125\101252125.dwg Plot Date: 4/15/2014 Plotted By: Tim Loomis
 P:\101252125\101252125.dwg Plot Date: 4/15/2014 Plotted By: Tim Loomis



PAVEMENT MARKING LEGEND

- Ⓢ Line, Thermoplastic, Broken, Yellow, 4"
- Ⓣ Line, Thermoplastic, Solid, Yellow, 4"
- Ⓤ Line, Thermoplastic, Broken, White, 4"
- Ⓦ Line, Thermoplastic, Solid, White, 4"
- Ⓧ Transverse Marking, Thermoplastic, Stop Line, White, 24"
- Ⓨ Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow
- Ⓩ Raised Pavement Marker, One-Way, White
- ⓐ Raised Pavement Marker, Two-Way, White / Red
- ⓑ Raised Pavement Marker, Two-Way, Yellow / Yellow

SIGNING LEGEND

- ⓓ Proposed Ground Mounted Sheet Sign

NOTE
 All sign posts shall be Type 2 (2" x 2" x 12 ga.),
 Unreinforced Anchor Base.



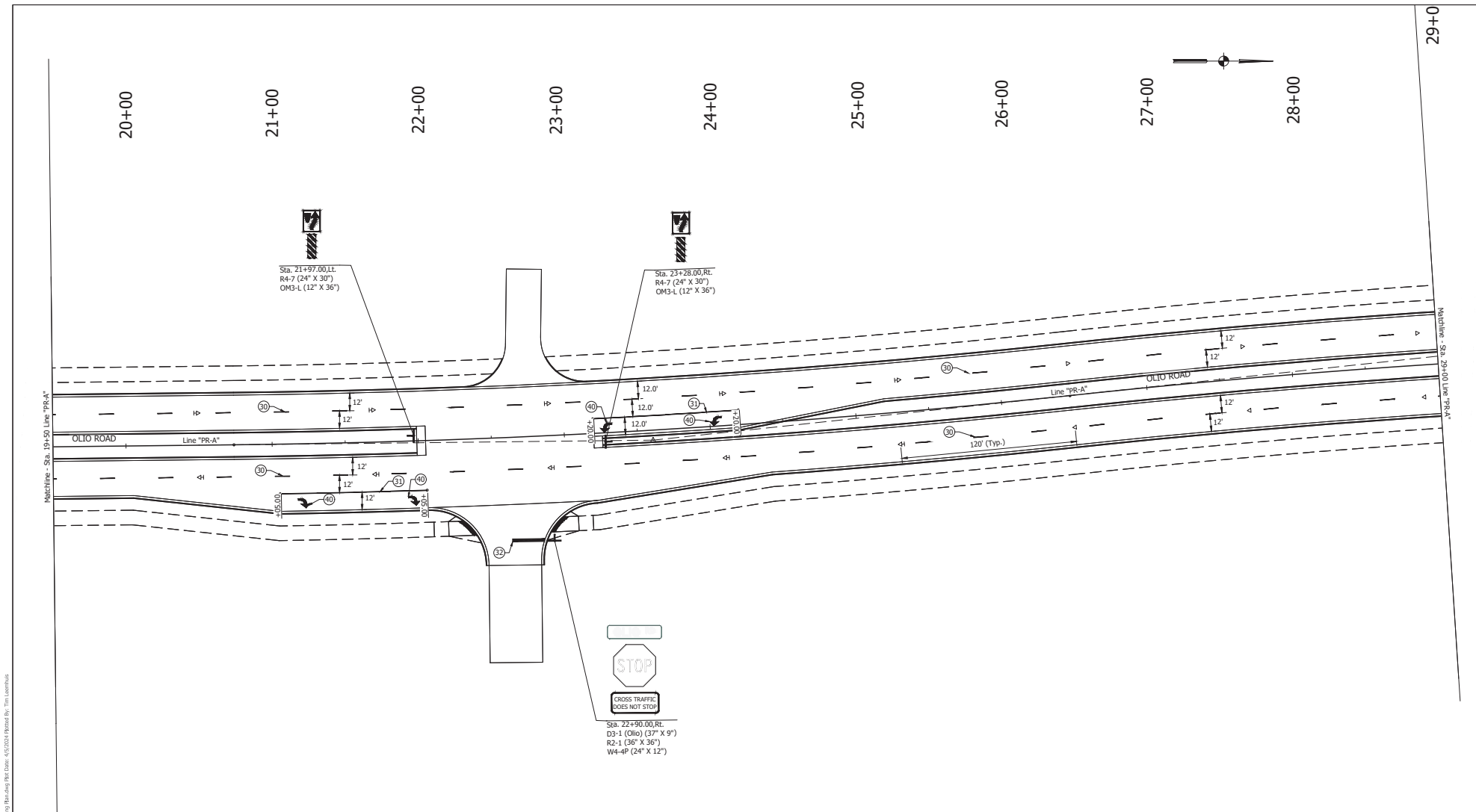
8440 Allison Pointe Boulevard, Suite 200
 Indianapolis, IN 46250
 Phone 317-895-2585
 www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING AND SIGNING DETAIL	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
-	43 of 97
CONTRACT	PROJECT
R-44267	2101733

Machine - Sta. 19+50 Line "PR-A"



- PAVEMENT MARKING LEGEND**
- (28) Line, Thermoplastic, Broken, Yellow, 4"
 - (31) Line, Thermoplastic, Solid, White, 4"
 - ◄ Raised Pavement Marker, One-Way, White
 - (29) Line, Thermoplastic, Solid, Yellow, 4"
 - (32) Transverse Marking, Thermoplastic, Stop Line, White, 24"
 - ◄◄ Raised Pavement Marker, Two-Way, White / Red
 - (30) Line, Thermoplastic, Broken, White, 4"
 - (40) Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow
 - ◻ Raised Pavement Marker, Two-Way, Yellow / Yellow

- SIGNING LEGEND**
- ▬ Proposed Ground Mounted Sheet Sign
- NOTE**
All sign posts shall be Type 2 (2' x 2' x 12 ga.), Unreinforced Anchor Base.



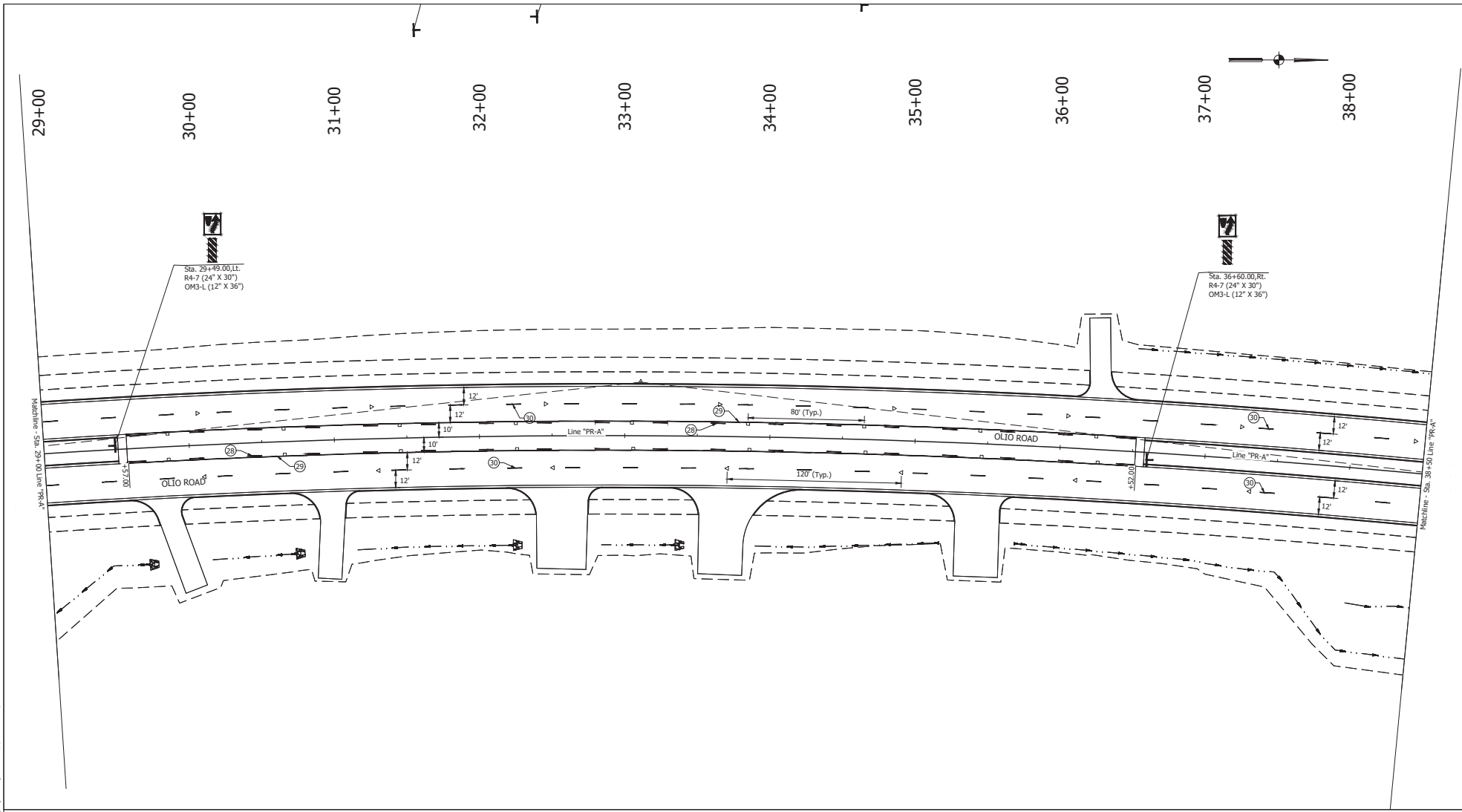
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING AND SIGNING DETAIL	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
-	44 of 97
CONTRACT	PROJECT
R-44267	2101733

File Name: P:\02\2101733\2101733-01.dwg Plot Date: 4/15/2014 Plotted By: Tim Covalski



- | | | |
|---|--|---|
| <p>②⑧ Line, Thermoplastic, Broken, Yellow, 4"</p> <p>②⑨ Line, Thermoplastic, Solid, Yellow, 4"</p> <p>③① Line, Thermoplastic, Broken, White, 4"</p> | <p>③② Line, Thermoplastic, Solid, White, 4"</p> <p>③③ Transverse Marking, Thermoplastic, Stop Line, White, 24"</p> <p>④① Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow</p> | <p>◁ Raised Pavement Marker, One-Way, White</p> <p>⊕ Raised Pavement Marker, Two-Way, White / Red</p> <p>◻ Raised Pavement Marker, Two-Way, Yellow / Yellow</p> |
|---|--|---|

SIGNING LEGEND

⊕ Proposed Ground Mounted Sheet Sign

NOTE
All sign posts shall be Type 2 (2' x 2' x 12 ga.),
Unreinforced Anchor Base.



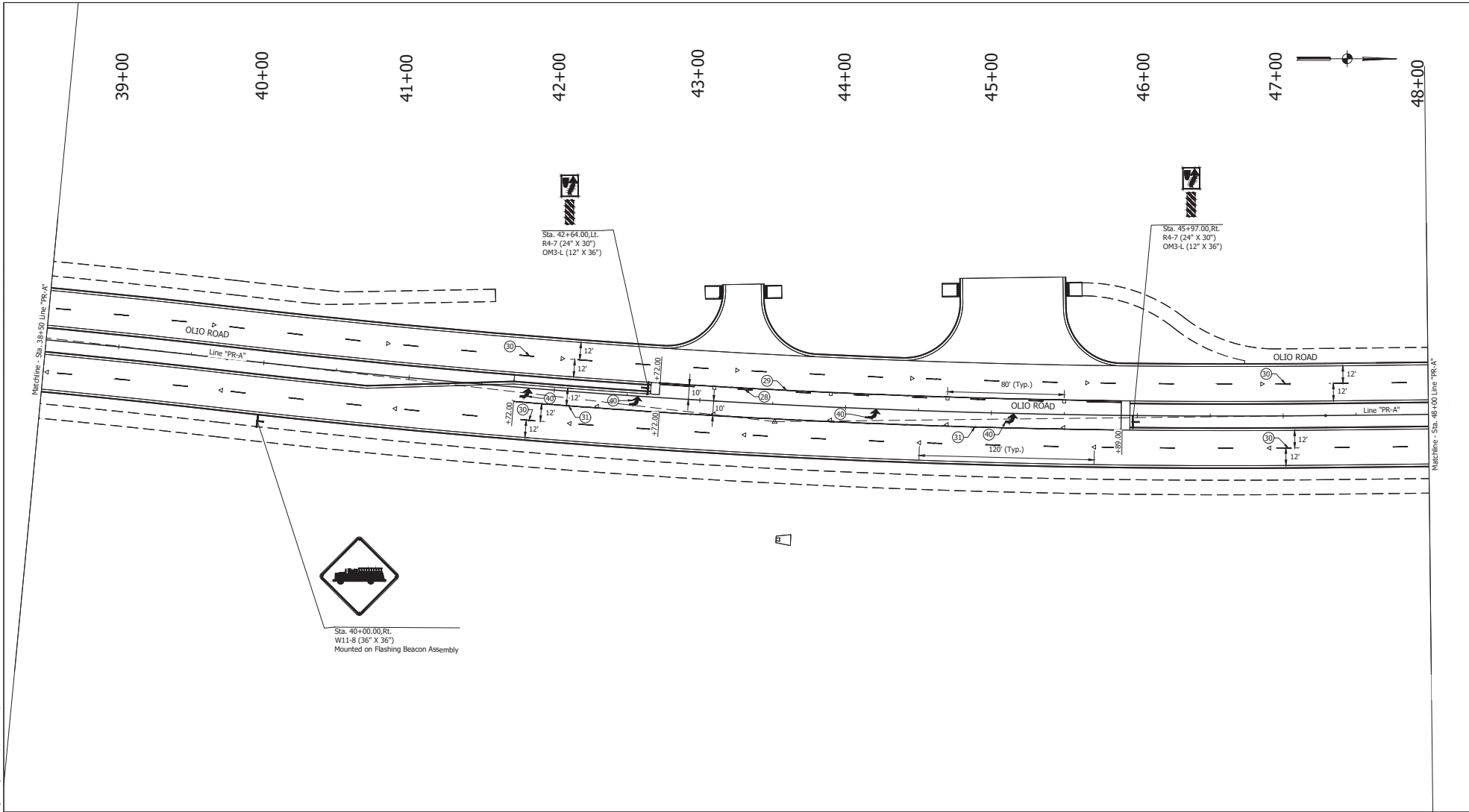
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING AND SIGNING DETAIL	

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT	45
R-44267	PROJECT
	2101733

File Name: P:\02\2101733\2101733.dwg Plot Date: 4/5/2014 10:45:00 AM



Sta. 40+00.00, RL
W11-8 (36' X 36')
Mounted on Flashing Beacon Assembly

PAVEMENT MARKING LEGEND

- Ⓟ Line, Thermoplastic, Broken, Yellow, 4"
- Ⓣ Line, Thermoplastic, Solid, Yellow, 4"
- Ⓛ Line, Thermoplastic, Broken, White, 4"
- Ⓛ Line, Thermoplastic, Solid, White, 4"
- Ⓛ Transverse Marking, Thermoplastic, Stop Line, White, 24"
- Ⓛ Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow
- Ⓛ Raised Pavement Marker, One-Way, White
- Ⓛ Raised Pavement Marker, Two-Way, White / Red
- Ⓛ Raised Pavement Marker, Two-Way, Yellow / Yellow

SIGNING LEGEND

- Ⓛ Proposed Ground Mounted Sheet Sign

NOTE
All sign posts shall be Type 2 (2" x 2" x 12 ga.),
Unreinforced Anchor Base.



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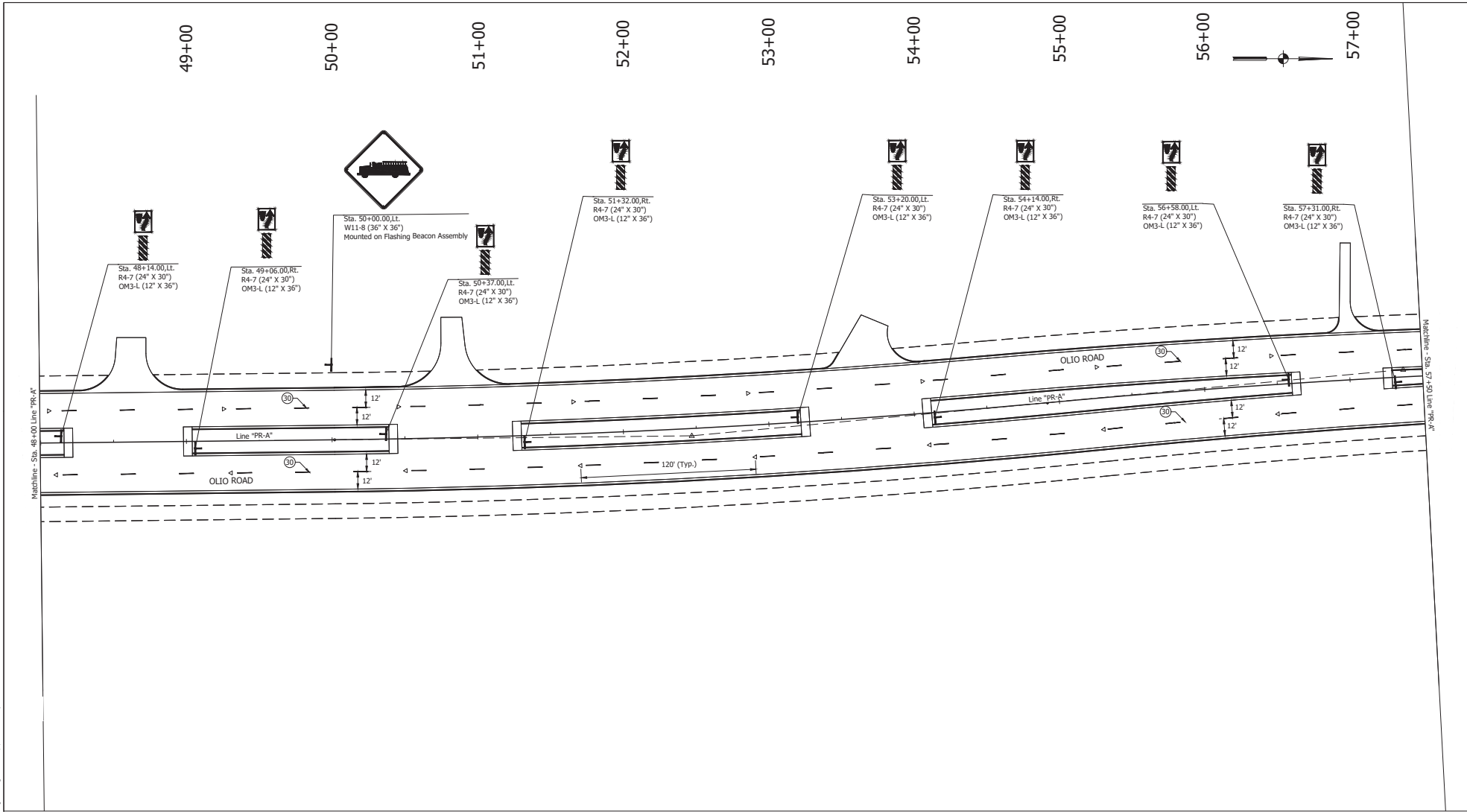
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: TBL	DRAWN: HSW		
CHECKED: CCR	CHECKED: CCR		

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING DETAIL**

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
CONTRACT	46 97
R-44267	PROJECT 2101733

File Name: P:\02\2101733\2101733-02.dwg; Plot Date: 11/21/2014 10:00:00 AM; Plot Scale: 1/30; Plot Size: 11.00 x 17.00; Plot Style: 2101733.ctb; Plot Device: HPGL; Plot Path: P:\02\2101733\2101733-02.dwg; Plot Date: 11/21/2014 10:00:00 AM; Plot Scale: 1/30; Plot Size: 11.00 x 17.00; Plot Style: 2101733.ctb; Plot Device: HPGL; Plot Path: P:\02\2101733\2101733-02.dwg



PAVEMENT MARKING LEGEND

- Ⓣ Line, Thermoplastic, Broken, Yellow, 4"
- Ⓛ Line, Thermoplastic, Solid, Yellow, 4"
- Ⓢ Line, Thermoplastic, Broken, White, 4"
- Ⓜ Line, Thermoplastic, Solid, White, 4"
- Ⓣ Transverse Marking, Thermoplastic, Stop Line, White, 24"
- Ⓜ Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow

- ◁ Raised Pavement Marker, One-Way, White
- ⊕ Raised Pavement Marker, Two-Way, White / Red
- ◻ Raised Pavement Marker, Two-Way, Yellow / Yellow

SIGNING LEGEND

- ⬆ Proposed Ground Mounted Sheet Sign

NOTE
All sign posts shall be Type 2 (2' x 2' x 12 ga.),
Unreinforced Anchor Base.



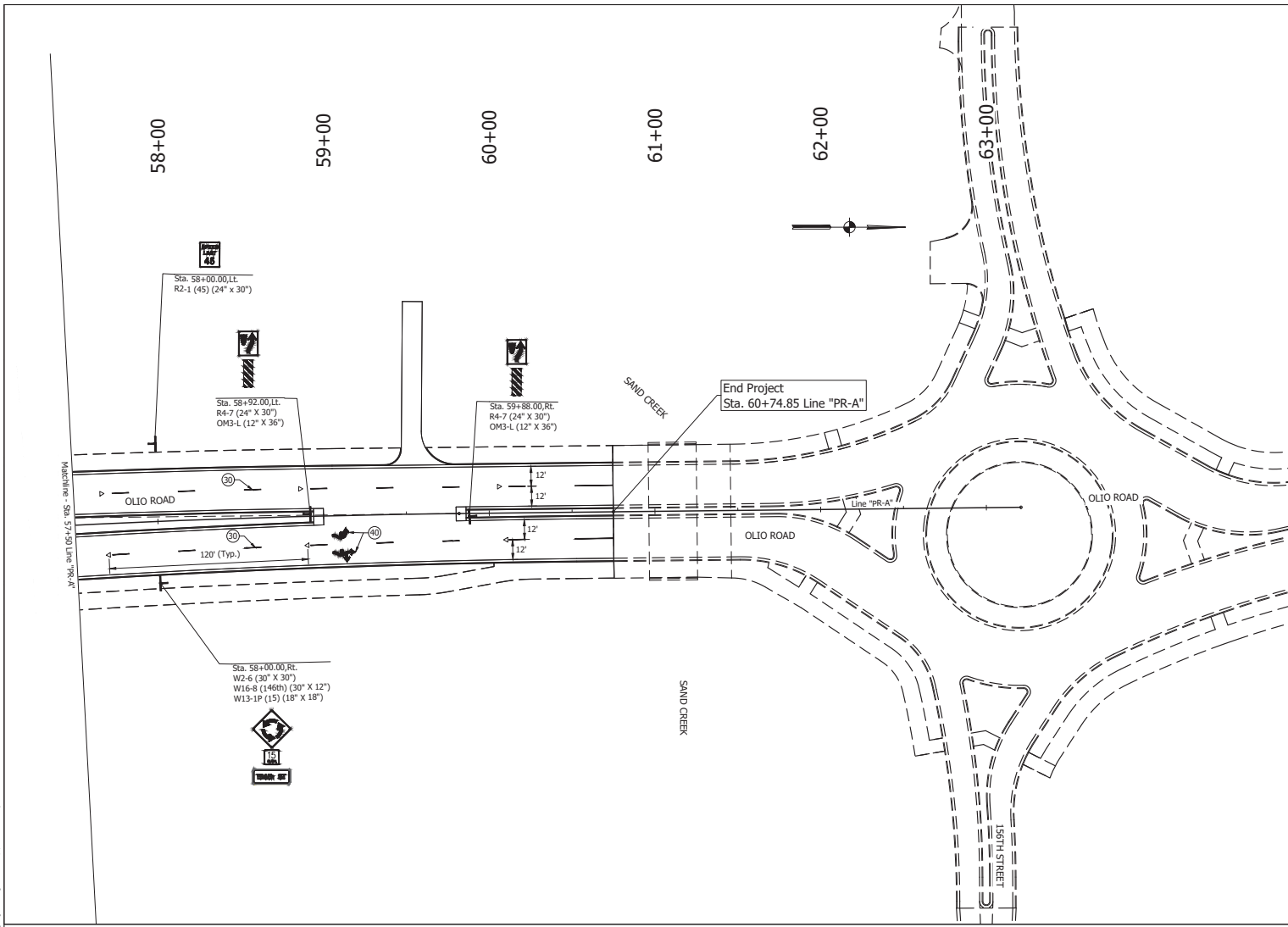
8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____	
DESIGNED: TBL	DRAWN: HSW				
CHECKED: CCR	CHECKED: CCR				

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND
SIGNING DETAIL

HORIZONTAL SCALE		BRIDGE FILE	
1" = 30'		-	
VERTICAL SCALE		DESIGNATION	
N/A		2101733	
SURVEY BOOK		SHEETS	
-		47 of 97	
CONTRACT		PROJECT	
R-44267		2101733	



SIGN DETAIL
1:20

Panel Style: warning_Rectangular.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: warning_Rectangular.ssi
Dimensions are in inches/millimeters
Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WD	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
I	S	6	l	h	S	T	D	D
3.8	5.6	9.2	12.3	14.4	16.7	20.7	23.8	22.5 4/3

SIGN DETAIL
1:20

Panel Style: Noblesville Street.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: Noblesville Street.ssi
Dimensions are in inches/millimeters
Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WD	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
R	D						D	D
26.1	29.5						6.1	4
O	L	I	O				D	D
4.8	10.4	15	17.3				16.7	6

SIGN DETAIL
1:20

Panel Style: warning_Rectangular.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: warning_Rectangular.ssi
Dimensions are in inches/millimeters
Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WD	HT

LETTER POSITIONS (X)							LENGTH	SERIES/SIZE
I	S	6	l	h	S	T	D	D
3.7	5.3	9.2	12.3	14.4	16.7	20.7	23.8	22.5 4/3

- PAVEMENT MARKING LEGEND**
- ②⑧ Line, Thermoplastic, Broken, Yellow, 4"
 - ②⑨ Line, Thermoplastic, Solid, Yellow, 4"
 - ②⑩ Line, Thermoplastic, Broken, White, 4"
 - ②⑪ Line, Thermoplastic, Solid, White, 4"
 - ②⑫ Transverse Marking, Thermoplastic, Stop Line, White, 24"
 - ②⑬ Pavement Message Marking, Thermoplastic, Lane Turn Indication Arrow
 - ◁ Raised Pavement Marker, One-Way, White
 - ◁ Raised Pavement Marker, Two-Way, White / Red
 - ◁ Raised Pavement Marker, Two-Way, Yellow / Yellow

- SIGNING LEGEND**
- ◁ Proposed Ground Mounted Sheet Sign
- NOTE**
All sign posts shall be Type 2 (2' x 2' x 12 ga.), Unreinforced Anchor Base.



8440 Allison Pointe Boulevard, Suite 200
Indianapolis, IN 46250
Phone 317-895-2585
www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TBL	DRAWN: HSW	
CHECKED: CCR	CHECKED: CCR	

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND
SIGNING DETAIL

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	-
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEETS
48	97
CONTRACT	PROJECT
R-44267	2101733

File Name: P:\02\2012\2012-02-18_roadwork\pavement\pavement.mxd Date: 05/20/14 10:45:10 AM User: j... The contents...

PROJECT	DESIGNATION
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CONTRACT	BRIDGE FILE
EN-359	N/A

CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY

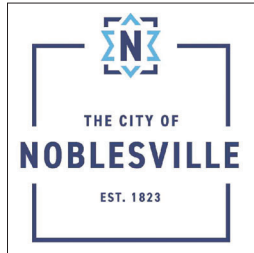
ROAD PLANS

INTERSECTION IMPROVEMENT

OLIO RD. & 156TH ST.

WAYNE TOWNSHIP, HAMILTON COUNTY, INDIANA

PROJECT DESCRIPTION:
INTERSECTION IMPROVEMENT AT OLIO ROAD AND EAST 156TH ROAD FROM SAND CREEK BRIDGE TO 156TH STREET IN SECTION 11, 12, 13 & 14 T-18-N, R-5-E, WAYNE TOWNSHIP, HAMILTON COUNTY, INDIANA



APPROVED BY:
CITY OF NOBLESVILLE BOARD OF PUBLIC WORKS & SAFETY

Date: _____

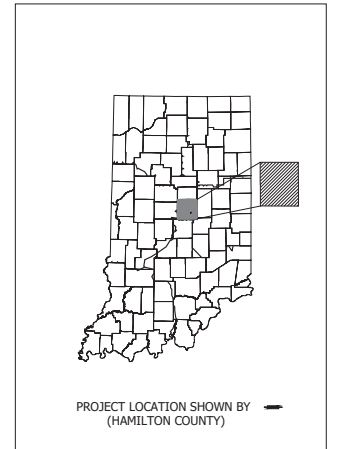
Jack Martin _____ President
John Elmer _____ Member
Laurie Dyer _____ Member
Rick Taylor _____ Member
John Distlear _____ Member
Evelyn Lees _____ Clerk
Alison Krupski _____ City Engineer



VICINITY MAP
HAMILTON COUNTY

TRAFFIC DATA		Olio Road
A.A.D.T. (2025)		4,300 V.P.D.
A.A.D.T. (2045)		5,300 V.P.D.
D.H.V. (2045)		530 V.P.H.
DIRECTIONAL DISTRIBUTION		52% NB
TRUCKS		3.6% A.A.D.T. 4.4% D.H.V.

DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL AGENCY COLLECTOR
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 40°06'22" LONGITUDE: 85°55'37"

BRIDGE LENGTH: 0.013 MI.
ROADWAY LENGTH: 0.195 MI.
TOTAL LENGTH: 0.208 MI.
MAX. GRADE: 1.47 %

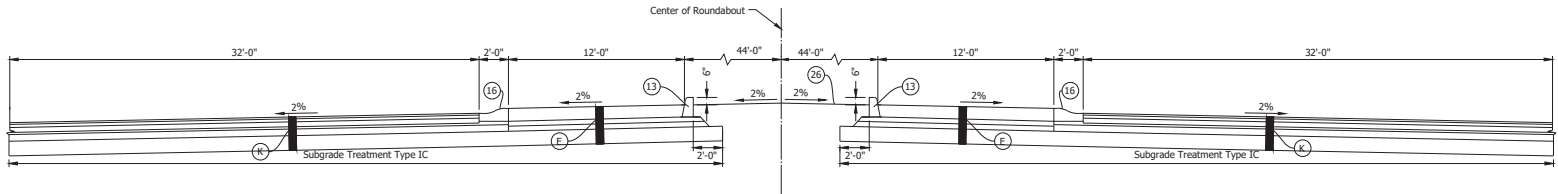
HUC: 051202010903

NOBLESVILLE CITY STANDARDS DATED 03/14/2012 &
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS



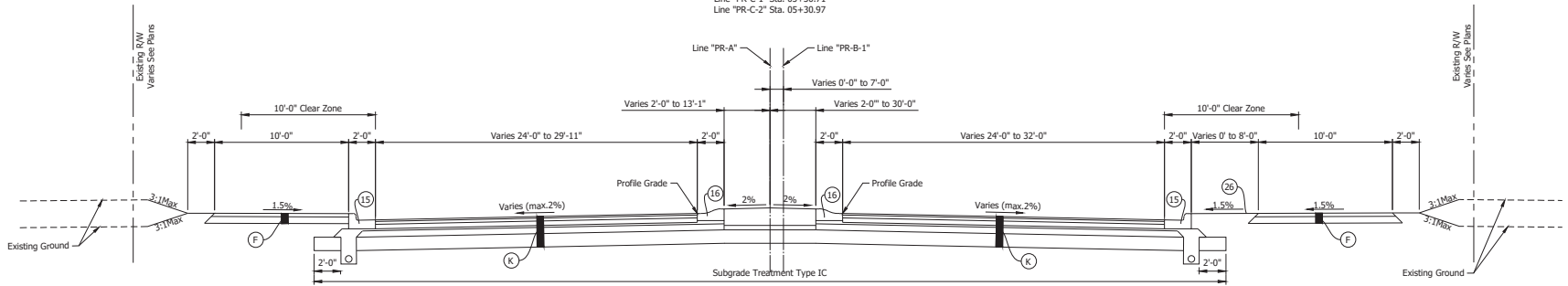
PLANS
PREPARED BY: Lochmueller Group, Inc. (317) 222-3880
PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
TITLE	---
DESIGNATION	2101733
SURVEY BOOK	SHEET
ELECTRONIC BOOK	1 of 45
CONTRACT	PROJECT
EN-359	---



TYPICAL SECTION - ROUNDABOUT

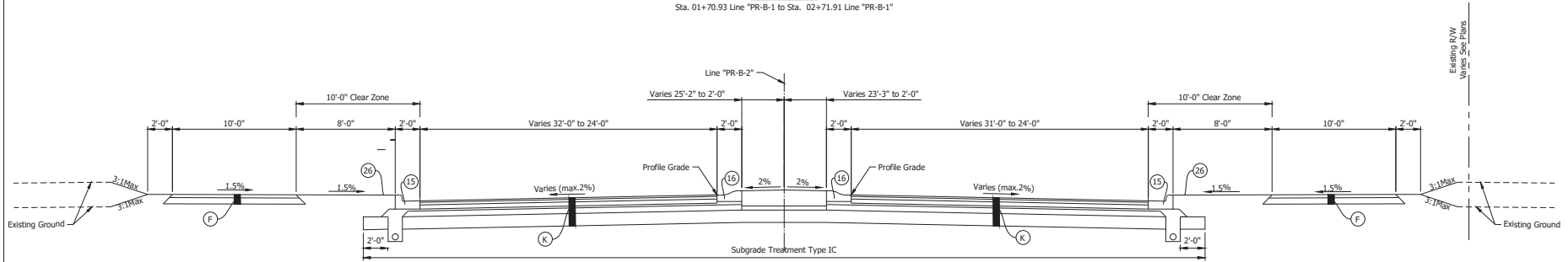
Radial Around
 Line "PR-B-1" Sta. 03+45.91
 Line "PR-B-2" Sta. 03+45.91
 Line "PR-C-1" Sta. 05+30.71
 Line "PR-C-2" Sta. 05+30.97



TYPICAL SECTION - SPLITTER ISLAND

OLIO ROAD

Sta. 01+70.93 Line "PR-B-1" to Sta. 02+71.91 Line "PR-B-1"



TYPICAL SECTION - SPLITTER ISLAND

OLIO ROAD

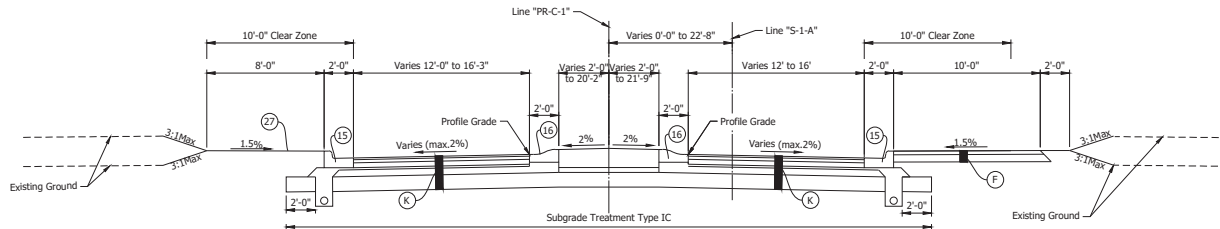
Sta. 04+20.91 Line "PR-B-2" to Sta. 06+65.25 Line "PR-B-2"

- (E) Concrete Truck Apron:
 10" P.C.P. (Decorative) on
 440 LB/SYS QCCA-HMA, 3, 64, Base, 25mm, on
 440 LB/SYS QCCA-HMA, 3, 64, Base, 25mm, on
 HMA for Sidewalk:
 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on
 6" Compacted Aggregate NO.53, on
 Subgrade Treatment, Type III
- (K) HMA Pavement:
 165 LB/SYS QCCA-HMA, 3, 70, Surface, 9.5mm, on
 275 LB/SYS QCCA-HMA, 3, 64, Intermediate, 19mm, on
 440 LB/SYS QCCA-HMA, 3, 64, Base, 25mm, on
 200 LB/SYS QCCA-HMA, 3, 76, Intermediate, OG 19mm, on
 660 LB/SYS QCCA-HMA, 3, 64, Base, 25mm, on
 Subgrade Treatment, Type IC
- (R) 165 LB/SYS QCCA-HMA, 3, 70, Surface, 9.5mm, on
 Milling, Asphalt, 1½" in.
- (W) HMA Widening, Type C, Consisting of
 165 LB/SYS QCCA-HMA, 2, 64, Surface, 9.5mm, on
 275 LB/SYS QCCA-HMA, 2, 64, Intermediate, 19mm, on
 300 LB/SYS QCCA-HMA, 2, 64, Base, 19mm, on
 6" in. Compacted Aggregate NO.53, on
 Subgrade Treatment, Type I
- (15) Curb and Gutter, Concrete, Modified, Type II
- (16) Curb, Integral B Concrete
- (25) Sodding
- (13) Curb, Integral, Concrete

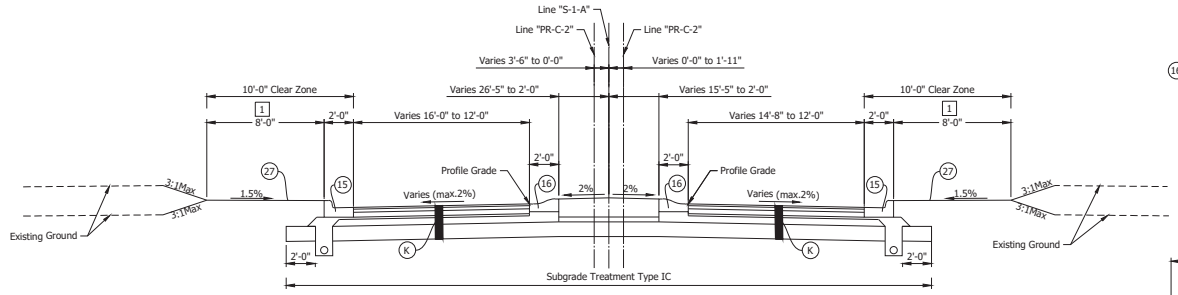
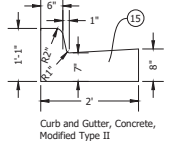
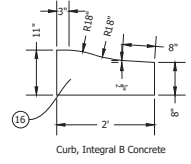
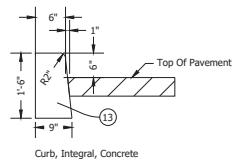
DESIGNED: EWA	DRAWN: EWA
CHECKED: JNH	CHECKED: JNH

CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY	
HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 2101733
SURVEY BOOK ELECTRONIC	SHEET 3 of 45
CONTRACT EN-359	PROJECT ---

Date: 02-15-2024 10:28:38 AM File Name: Road Header
 File Path: I:\Road\Projects\2024\02-15-2024\EN-359\Drawings\BID\Road_BID_Typical.dwg - (TTP-B-I)

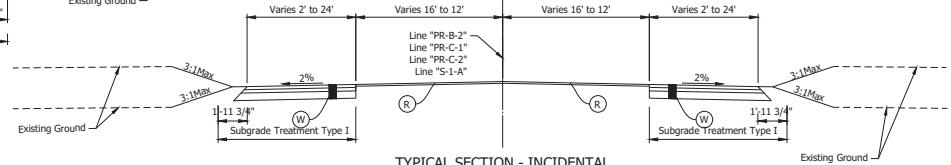


TYPICAL SECTION - SPLITTER ISLAND
156TH STREET
 Sta. 02+40.46 Line "PR-C-1" to Sta. 03+21.87 Line "PR-C-1"
 Sta. 03+61.89 Line "PR-C-1" to Sta. 04+40.01 Line "PR-C-1"

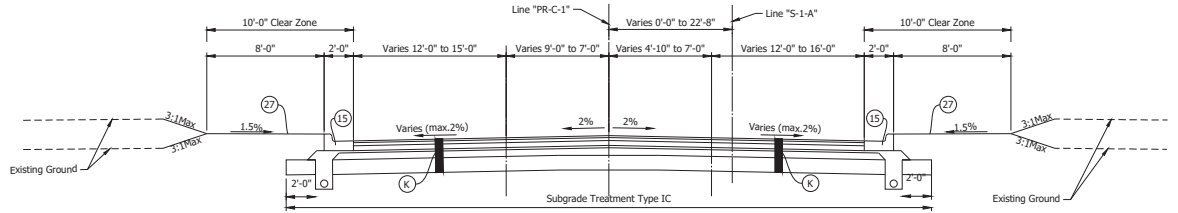


TYPICAL SECTION - SPLITTER ISLAND
156TH STREET
 Sta. 06+20.97 Line "PR-C-2" to Sta. 07+58.28 Line "PR-C-2"

1 Multi-use Path from Sta. 06+20.97 to Sta. 06+62.00



TYPICAL SECTION - INCIDENTAL
 Sta. 06+65.25 Line "PR-B-2" to Sta. 09+55.37 Line "PR-B-2"
 Sta. 01+00.00 Line "PR-C-1" to Sta. 02+00.00 Line "PR-C-1"
 Sta. 07+58.28 Line "PR-C-2" to Sta. 09+08.28 Line "PR-C-2"



TYPICAL SECTION - FULL DEPTH
156TH STREET
 Sta. 02+00.00 Line "PR-C-1" to Sta. 02+40.46 Line "PR-C-1"
 Sta. 03+21.87 Line "PR-C-1" to Sta. 03+61.89 Line "PR-C-1"

File: \\s:\projects\156th\156th.dwg, Date: 11/11/2010, Time: 10:00:00 AM, User: jnh
 Plot: 11/11/2010 10:00:00 AM, Plot Device: HP DesignJet 500, Plot Scale: 1:1, Plot Range: All, Plot Orientation: Landscape

- (E) Concrete Truck Apron: 10" P.C.C.P. (Decorative) on 440 LB/SYS QCOA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS QCOA-HMA, 3, 64, Base, 25mm, on HMA for Sidewalk: 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6" Compacted Aggregate NO.53, on Subgrade Treatment, Type III
- (K) HMA Pavement: 165 LB/SYS QCOA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS QCOA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS QCOA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS QCOA-HMA, 3, 76, Intermediate, OG 19mm, on 660 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6" Compacted Aggregate NO.53, on Subgrade Treatment, Type IC
- (R) 165 LB/SYS QCOA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2" in.
- (W) HMA Widening, Type C, Consisting of 165 LB/SYS QCOA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS QCOA-HMA, 2, 64, Intermediate, 19mm, on 300 LB/SYS QCOA-HMA, 2, 64, Base, 19mm, on 6" IN. Compacted Aggregate NO.53, on Subgrade Treatment, Type I
- (15) Curb and Gutter, Concrete, Modified, Type II
- (16) Curb, Integral B Concrete
- (26) Sodding
- (13) Curb, Integral, Concrete

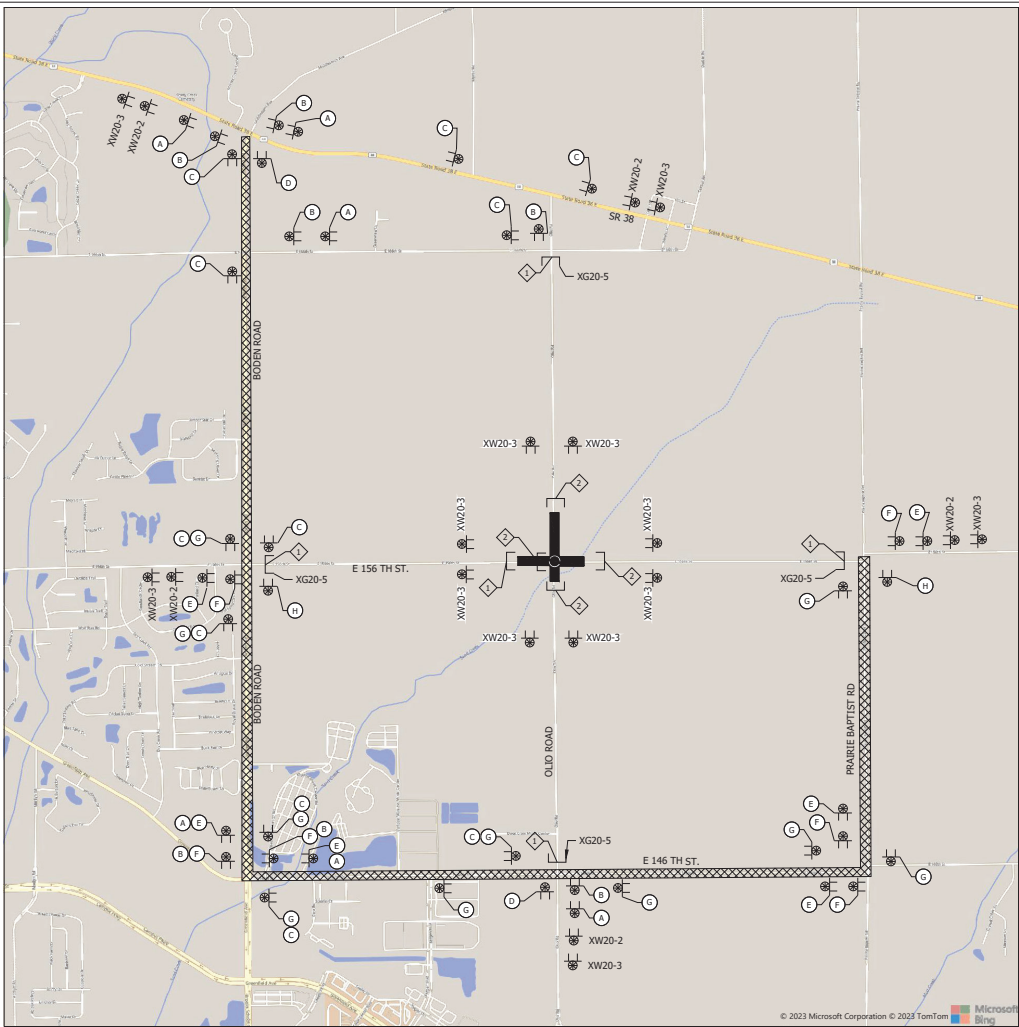
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

TYPICAL CROSS SECTIONS
LINE "PR-B-2", LINE "PR-C-1" & LINE "PR-C-2"

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	4 of 45
CONTRACT	PROJECT
EN-359	---

Date: Apr 13, 2024 2:52pm File Name: Noblesville_MOT.dwg Plot Path: I:\work\road\mcd\mcd\plots\2024\04\13\20240413_162837.dwg Plotter: HP-DesignJet 500 Series PCL 6



© 2023 Microsoft Corporation © 2023 TomTom Microsoft Bing

CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY
R11-2	"ROAD CLOSED" SIGN	48 x 30		5
R11-4	"ROAD CLOSED TO THRU TRAFFIC" SIGN	60 x 30		4
XG20-5	"ROAD CLOSED AFTER " SIGN	60 x 36		4
XM4-10 (L or R)	"DETOUR" SIGN	48 x 18		4
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	4
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	12
	TOTAL TYPE "A" SIGNS			16



Not To Scale

Detour Route Marker Assemblies	50	Req'd.
Road Closure Sign Assemblies	9	Req'd.
Type III-A Barricades	120	LFT
Type III-B Barricades	96	LFT

LEGEND:

- Road Closure Sign Assembly w/ Type III-B Barricade (24 LFT) And R11-4 And XM4-10 (L or R)
- Road Closure Sign Assembly W/ Type III-A Barricade (24 LFT) And R11-2
- Construction Zone
- Detour Route

GENERAL NOTES

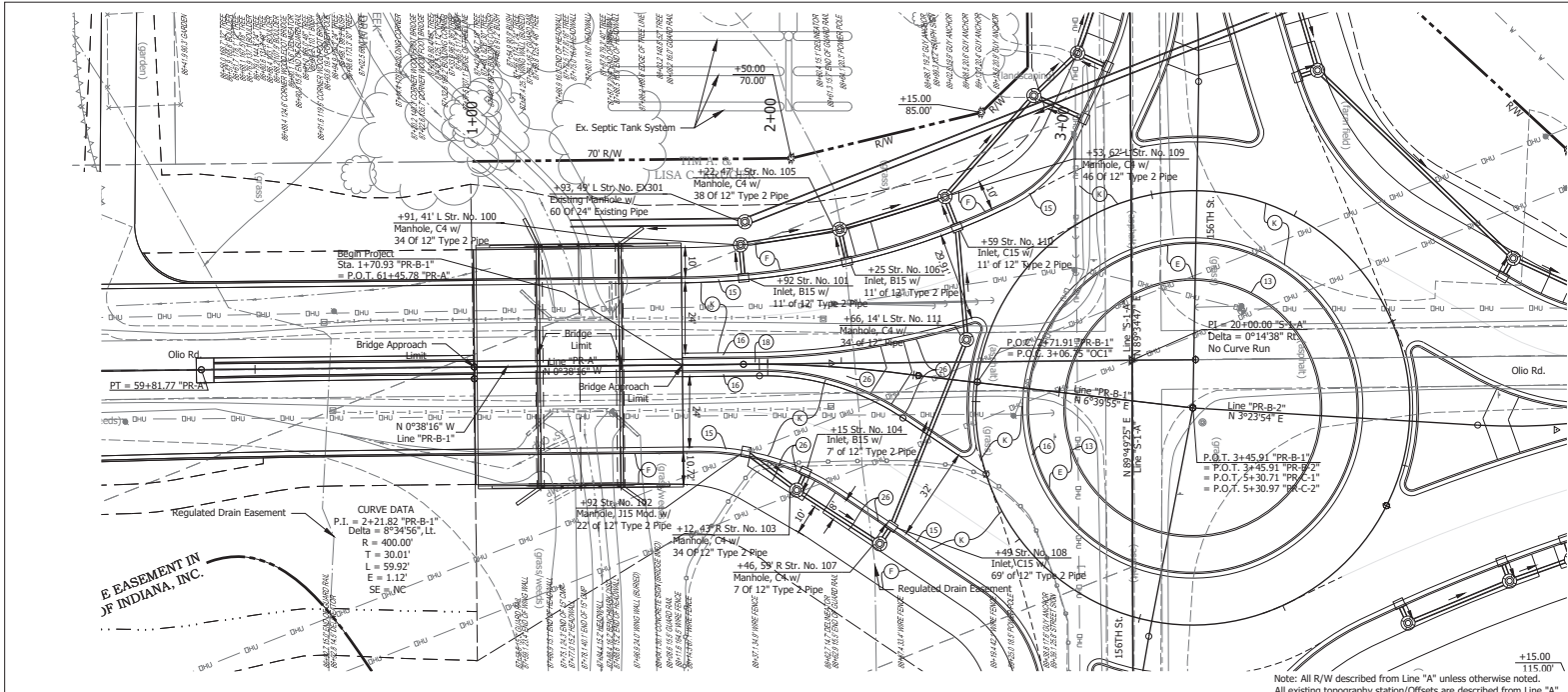
1. All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
2. See INDOT Std. Dwg. 801-TCDD-01 for sign spacing requirements and additional notes.
3. See INDOT Std. Dwg. 801-TCLG-01 for standard notes.
4. Type B construction warning lights shall be used with all signs located on road closure sign assemblies. Type A construction warning lights shall be used on all other construction signs.
5. Contractor shall maintain access to all commercial and private properties during construction.
6. XG20-5 signs shall be installed a minimum of 14 days prior to closing the road and removed when the road is closed to traffic.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

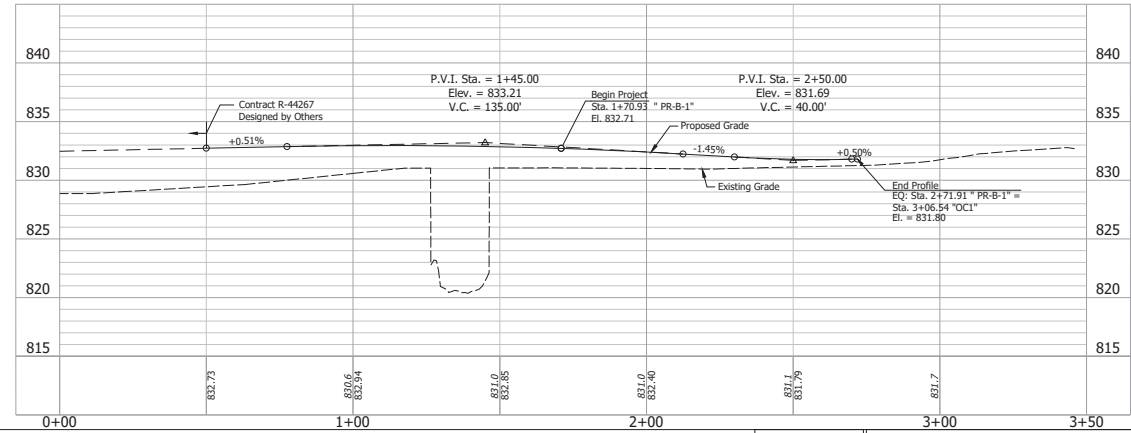
MAINTENANCE OF TRAFFIC
OLLO ROAD & 156TH ST DETOUR

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	N/A
N/A	DESIGNATION
SURVEY BOOK	SHEET
ELECTRONIC	5 of 45
CONTRACT	PROJECT
EN-359	---



Note: All R/W described from Line "A" unless otherwise noted.
All existing topography station/Offsets are described from Line "A".

E EASEMENT IN
OF INDIANA, INC.



- LEGEND:**
- (C) PCCP for Approaches, 6 in., on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type II
 - (E) Concrete Truck Apron: 10" PCCP (Decorative) on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm
 - (F) HMA for Sidewalk 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type III
 - (K) HMA Pavement 165 LB/SYS CCQA-HMA, 3,70, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 3,64, Intermediate, 19mm, on 440 LB/SYS CCQA-HMA, 3,64, Base, 25mm, on 200 LB/SYS CCQA-HMA, 3,76, Intermediate, OG 19mm, on 660 LB/SYS CCQA-HMA, 3,64, Base, 25mm, on Subgrade Treatment, Type IC
 - (R) 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2 in.
 - (W) HMA Widening, Type C Consisting of 165 LB/SYS CCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 2, 64, Intermediate, 19.0mm, on 300 LB/SYS CCQA-HMA, 2, 64, Base, 19.0mm, on 6 in. Compacted Aggregate NO.53, on Subgrade Treatment, Type I
 - (13) Curb, Integral, Concrete
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb, Integral B, Concrete, Modified
 - (17) Center Curb D, Concrete
 - (18) PCCP, 13" (Decorative), on 8" Compacted Aggregate, NO. 53, on Subgrade Treatment, Type IC
 - (26) Sodding

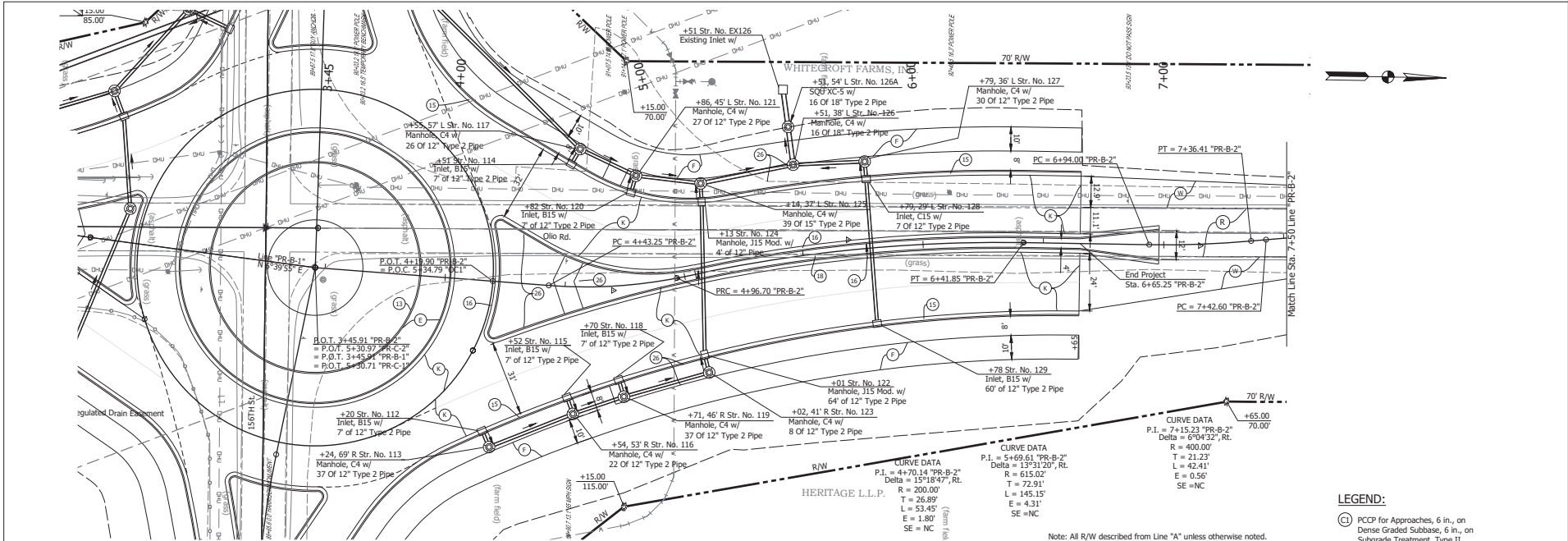
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 User: noblesville\jmc
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

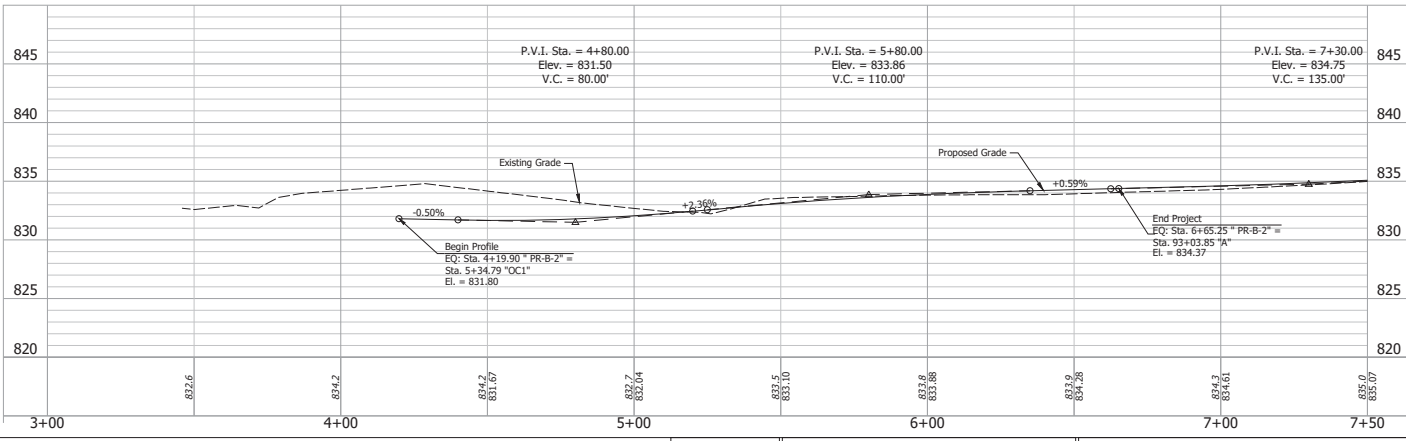
CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

**PLAN & PROFILE- LINE "PR-B-1"
STA. 1+00 TO STA. 3+46**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	6 of 45
CONTRACT	PROJECT
EN-359	---



Note: All R/W described from Line "A" unless otherwise noted.
All existing topography station/Offsets are described from Line "A".



- LEGEND:**
- (C) PC/P for Approaches, 6 in., on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type II
 - (E) Concrete Truck Apron: 10" PC/P (Decorative) on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm
 - (F) HMA for Sidewalk 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type III
 - (K) HMA Pavement 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS CCQA-HMA, 3, 76, Intermediate, OG 19mm, on 660 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on Subgrade Treatment, Type IC
 - (R) 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2 in.
 - (W) HMA Widening, Type C Consisting of 165 LB/SYS CCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 2, 64, Intermediate, 19.0mm, on 300 LB/SYS CCQA-HMA, 2, 64, Base, 19.0mm, on 6 in. Compacted Aggregate NO.53, on Subgrade Treatment, Type I
 - (13) Curb, Integral, Concrete
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb, Integral B, Concrete, Modified
 - (17) Center Curb, D, Concrete
 - (18) PC/P, 13" (Decorative), NO. 53, on Subgrade Treatment, Type IC
 - (26) Sodding

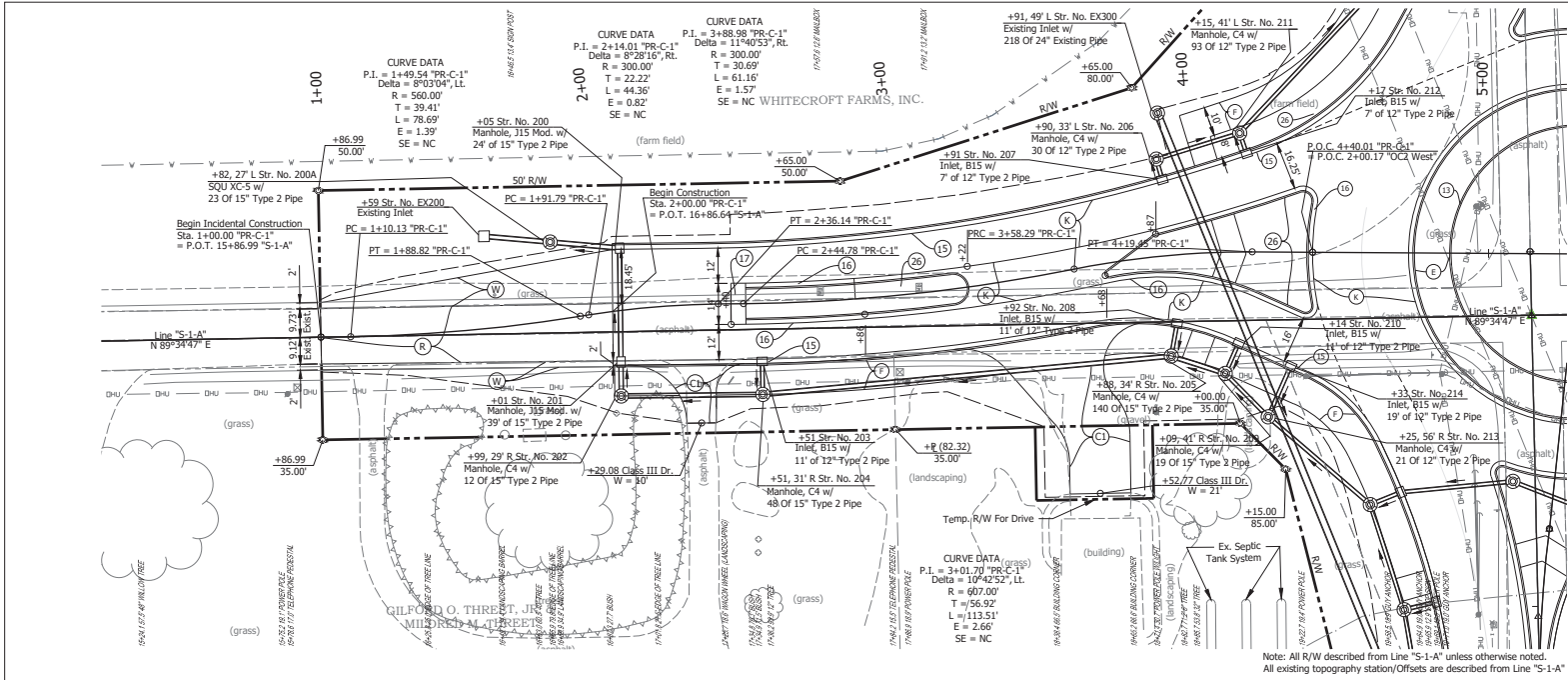
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 User: noblesville\michael.mccormick
 File: I:\noblesville\mccormick\1624122\2024\DWG\PRB-2\PRB-2-123

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

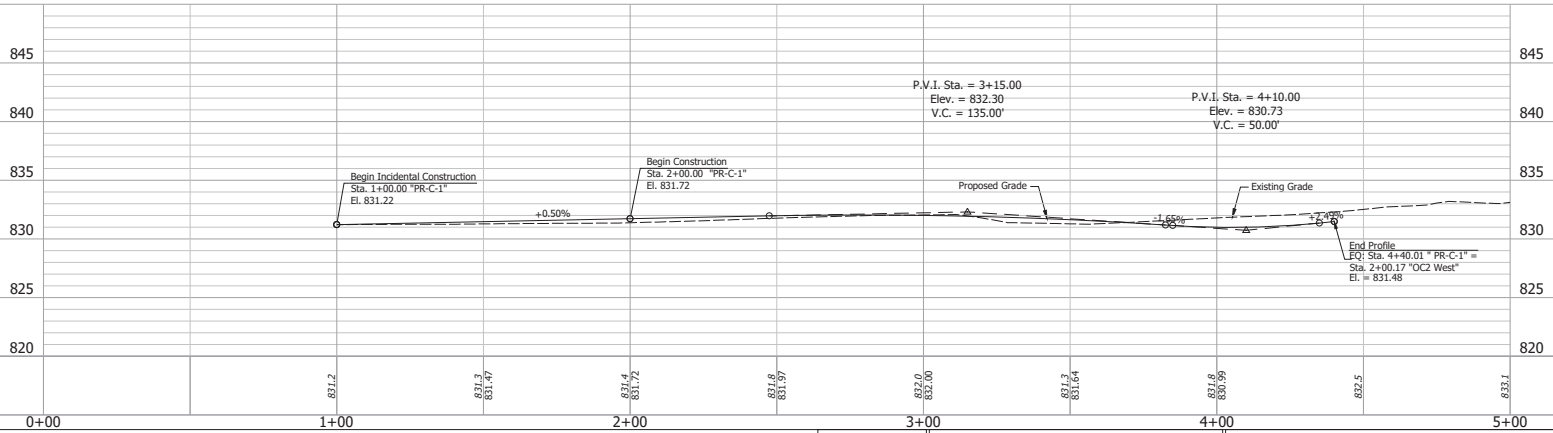
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

PLAN & PROFILE - LINE "PR-B-2"
STA. 3+46 TO STA. 7+50

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	7 of 45
CONTRACT	PROJECT
EN-359	---



- LEGEND:**
- (C) PC/P for Approaches, 6 in., on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type II
 - (E) Concrete Truck Apron: 10\"/>
 - (F) HMA for Sidewalk 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type III
 - (K) HMA Pavement 165 LB/SYS QCQA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS QCQA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS QCQA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS QCQA-HMA, 3, 76, Intermediate, OG 19mm, on 660 LB/SYS QCQA-HMA, 3, 64, Base, 25mm, on Subgrade Treatment, Type I
 - (R) 165 LB/SYS QCQA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2 in.
 - (W) HMA Widening, Type C Consisting of 165 LB/SYS QCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS QCQA-HMA, 2, 64, Intermediate, 19.0mm, on 300 LB/SYS QCQA-HMA, 2, 64, Base, 19.0mm, on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type I
 - (13) Curb, Integral, Concrete
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb, Integral B, Concrete, Modified
 - (17) Center Curb, D, Concrete
 - (18) PC/P, 13\"/>
 - (26) Sodding



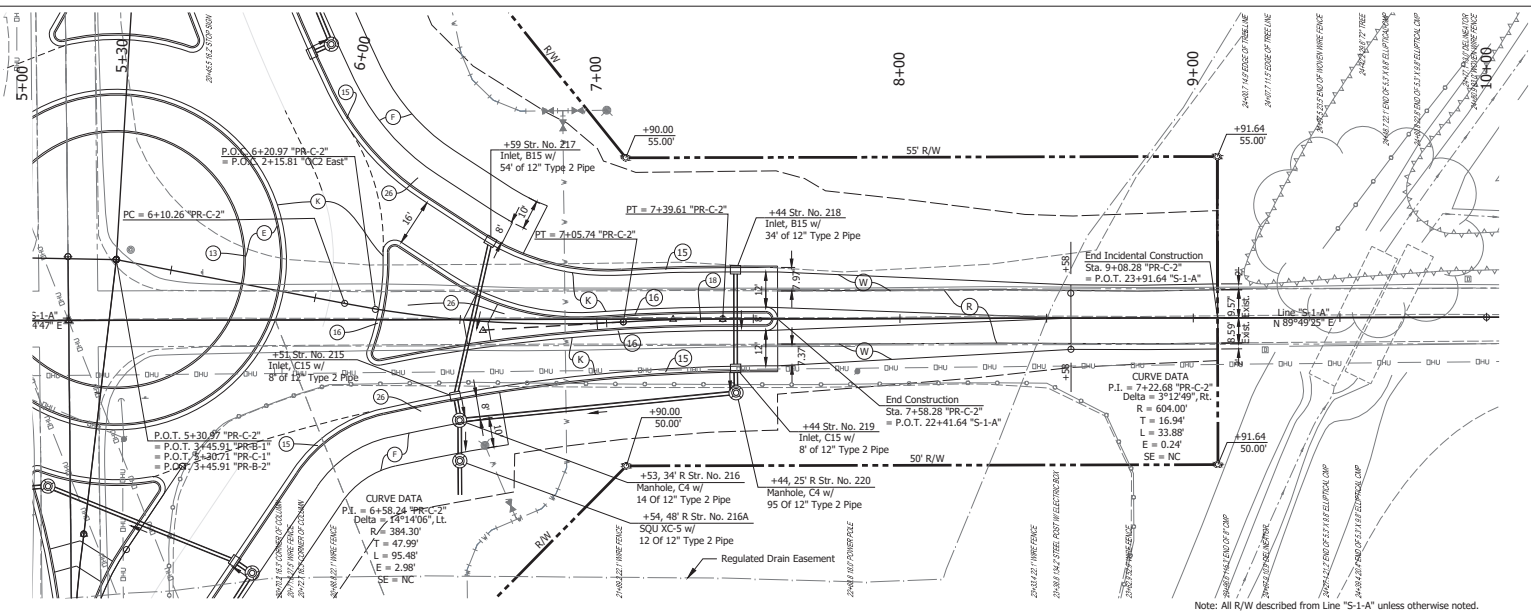
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

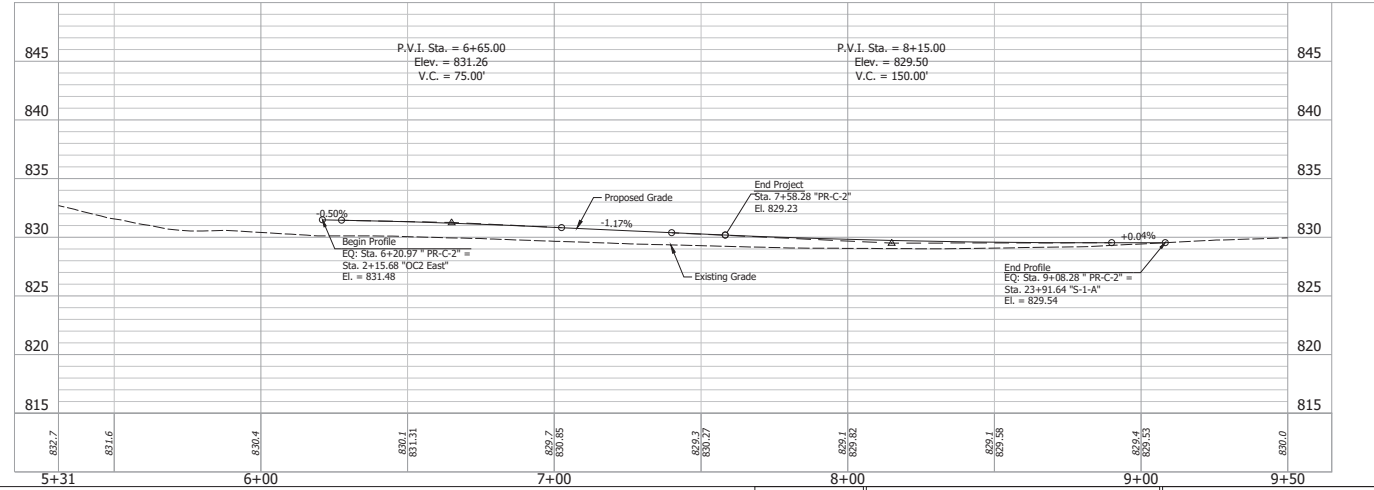
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY
PLAN & PROFILE - LINE "PR-C-1"
STA. 1+00 TO STA. 5+31

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	9 of 45
CONTRACT	PROJECT
EN-359	---

Date: Apr. 15, 2024, 5:08pm User Name: Nick Hester
 File: \\hobbs\hobbs\mechanical\hobbs\2024\2024\2024\PRC-C-2\PRC-C-2.dwg - PRC-C-1(2)



Note: All R/W described from Line "S-1-A" unless otherwise noted.
 All existing topography station/Offsets are described from Line "S-1-A"



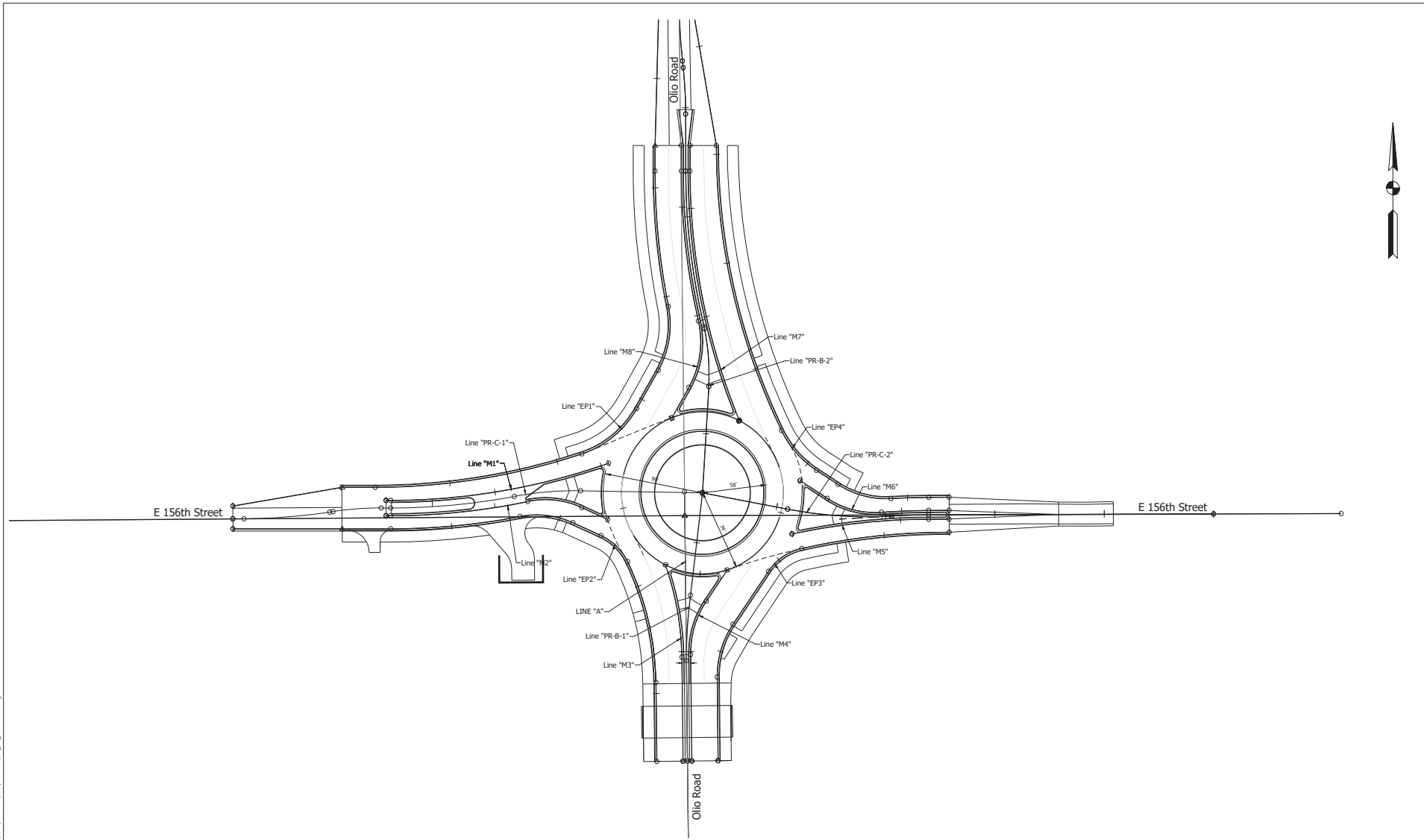
LEGEND:

- (C) PC/P for Approaches, 6 in., on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type II
- (E) Concrete Truck Apron: 40 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm
- (F) HMA for Sidewalk 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type III
- (K) HMA Pavement 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS CCQA-HMA, 3, 76, Intermediate, OG 19mm, on 660 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on Subgrade Treatment, Type IC
- (R) 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2 in.
- (W) HMA Widening, Type C Consisting of 165 LB/SYS CCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 2, 64, Intermediate, 19.0mm, on 300 LB/SYS CCQA-HMA, 2, 64, Base, 19.0mm, on 6 in. Compacted Aggregate NO.53, on Subgrade Treatment, Type I
- (13) Curb, Integral, Concrete
- (15) Curb and Gutter, Concrete, Modified, Type II
- (16) Curb, Integral B, Concrete, Modified
- (17) Center Curb, D, Concrete
- (18) PC/P, 13" (Decorative), on 8" Compacted Aggregate, NO. 53, on Subgrade Treatment, Type IC
- (26) Sodding

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY
PLAN & PROFILE - LINE "PR-C-2"
STA. 5+31 TO STA. 8+68

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	10 of 45
CONTRACT	PROJECT
EN-359	---



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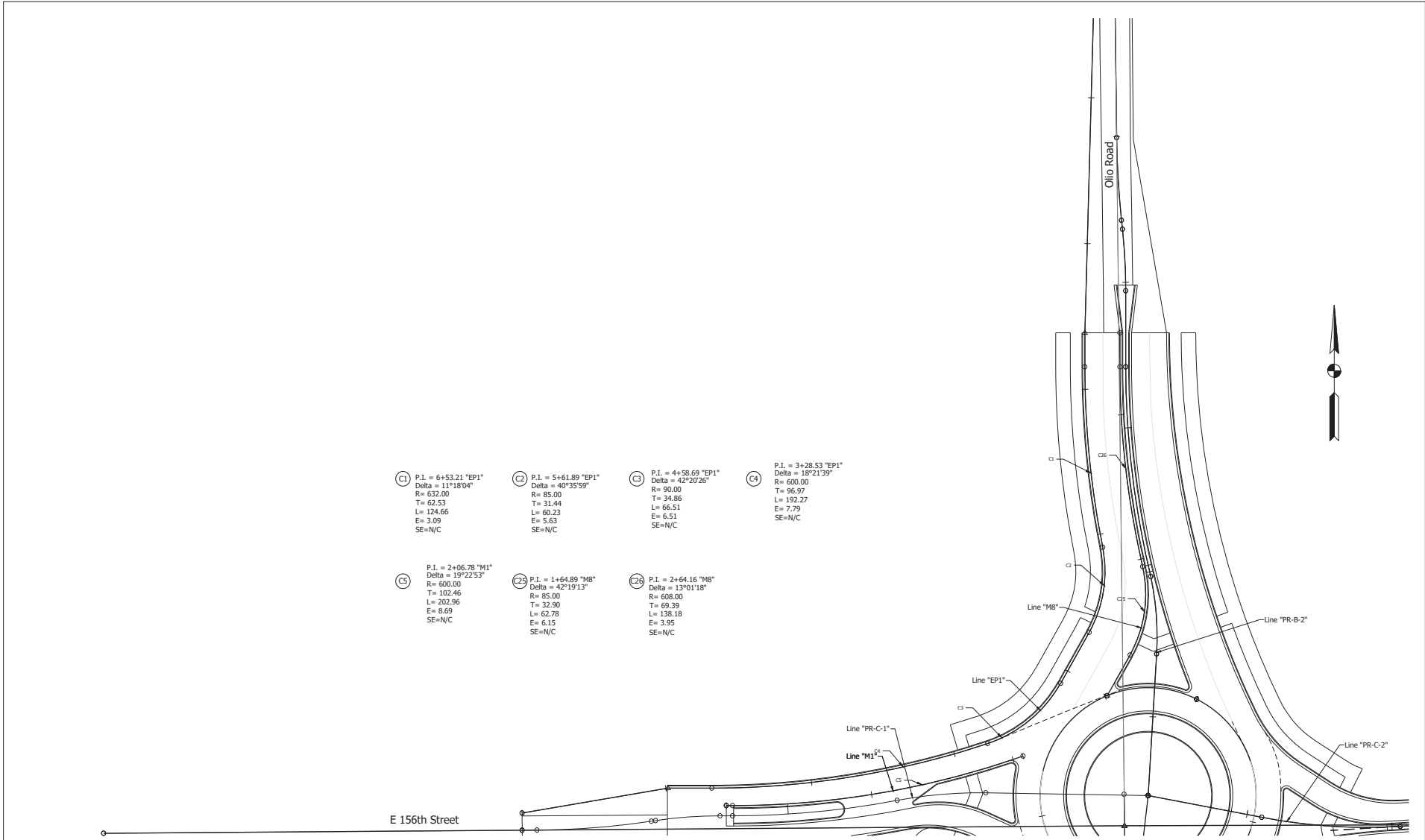
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA		
CHECKED: JNH	CHECKED: JNH		

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

**ROUNDAABOUT GEOMETRICS
OVERALL DETAIL**

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	11 of 45
CONTRACT	PROJECT
EN-359	---

Date: Apr 12, 2024, 8:27am User: Jinhua.Miao File: Roundabout.dwg
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C1 P.I. = 6+53.21 "EP1"
 Delta = 11°18'04"
 R = 632.00
 T = 62.53
 L = 124.66
 E = 3.09
 SE=N/C

C2 P.I. = 5+61.89 "EP1"
 Delta = 40°35'59"
 R = 85.00
 T = 31.44
 L = 60.23
 E = 5.63
 SE=N/C

C3 P.I. = 4+58.69 "EP1"
 Delta = 42°20'26"
 R = 90.00
 T = 34.86
 L = 66.51
 E = 6.51
 SE=N/C

C4 P.I. = 3+28.53 "EP1"
 Delta = 18°21'39"
 R = 600.00
 T = 96.97
 L = 192.27
 E = 7.79
 SE=N/C

C5 P.I. = 2+06.78 "M1"
 Delta = 19°22'53"
 R = 600.00
 T = 102.46
 L = 202.96
 E = 8.69
 SE=N/C

C25 P.I. = 1+64.89 "M8"
 Delta = 42°19'13"
 R = 85.00
 T = 32.90
 L = 62.78
 E = 6.15
 SE=N/C

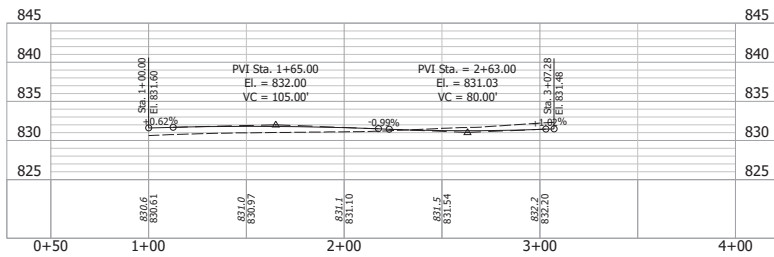
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 Delta = 13°01'18"
 R = 608.00
 T = 69.39
 L = 138.18
 E = 3.95
 SE=N/C

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA		
CHECKED: JNH	CHECKED: JNH		

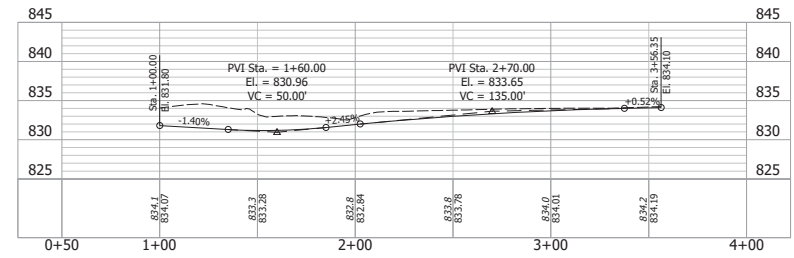
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

 ROUNDABOUT GEOMETRICS
 DETAIL

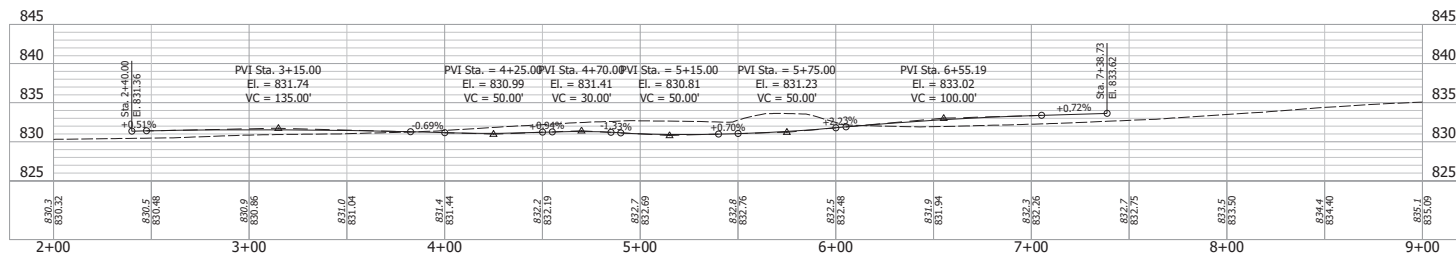
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VERTICAL SCALE	DESIGNATION
1" = 20'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	12 of 45
CONTRACT	PROJECT
EN-359	---



PROFILE - LINE "M1"
Sta. 1+00.00 to 3+24.52



PROFILE - LINE "M8"
Sta. 1+00.00 to 3+56.35



PROFILE - LINE "EP1"
Sta. 1+00.00 to 10+17.69

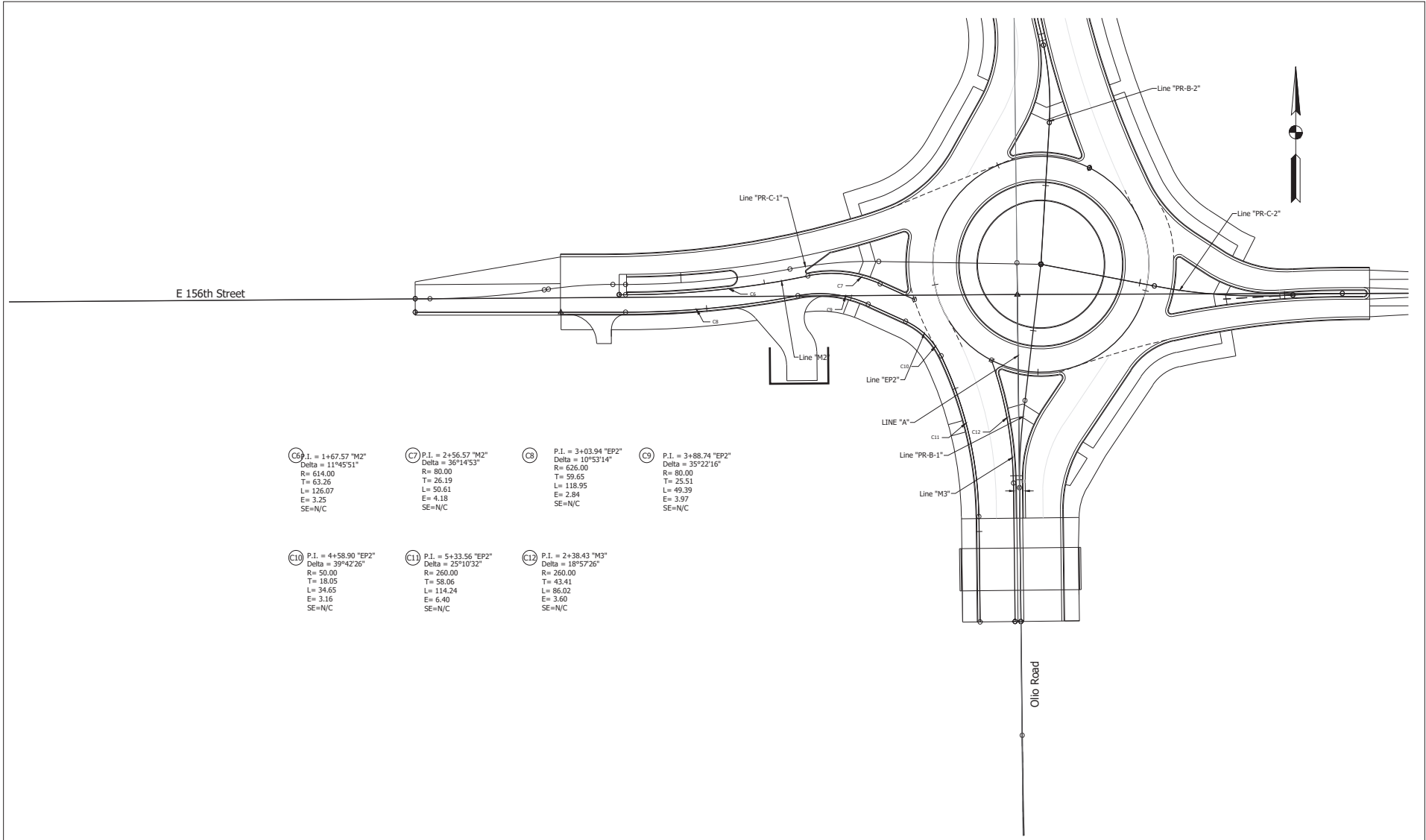
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA		
CHECKED: JNH	CHECKED: JNH		

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

ROUNDABOUT GEOMETRICS
LINE "M1", LINE "EP1", LINE "M8"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	13 of 45
CONTRACT	PROJECT
EN-339	---



- (C6) P.I. = 1+67.57 "M2"
 Delta = 11°45'51"
 R= 614.00
 T= 63.26
 L= 126.07
 E= 3.25
 SE=N/C
- (C7) P.I. = 2+56.57 "M2"
 Delta = 36°14'53"
 R= 80.00
 T= 26.19
 L= 50.61
 E= 4.18
 SE=N/C
- (C8) P.I. = 3+03.94 "EP2"
 Delta = 10°53'14"
 R= 626.00
 T= 59.65
 L= 118.95
 E= 2.84
 SE=N/C
- (C9) P.I. = 3+88.74 "EP2"
 Delta = 35°22'16"
 R= 80.00
 T= 25.51
 L= 49.39
 E= 3.97
 SE=N/C
- (C10) P.I. = 4+58.90 "EP2"
 Delta = 39°42'26"
 R= 50.00
 T= 18.05
 L= 34.65
 E= 3.16
 SE=N/C
- (C11) P.I. = 5+33.56 "EP2"
 Delta = 25°10'32"
 R= 260.00
 T= 58.06
 L= 114.24
 E= 6.40
 SE=N/C
- (C12) P.I. = 2+38.43 "M3"
 Delta = 18°57'26"
 R= 260.00
 T= 43.41
 L= 86.02
 E= 3.60
 SE=N/C

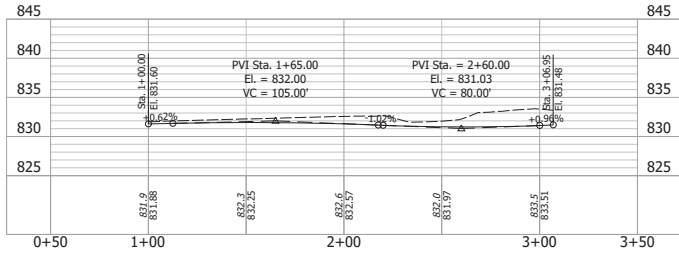
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
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CHECKED: JNH	CHECKED: JNH		

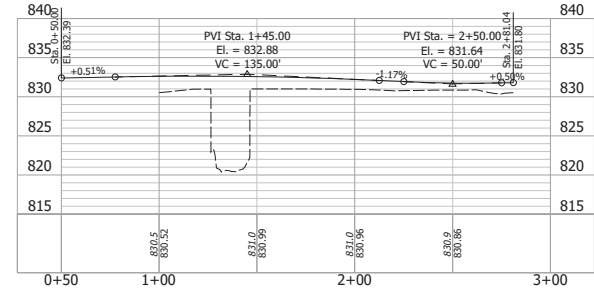
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

 ROUNDABOUT GEOMETRICS
 DETAIL

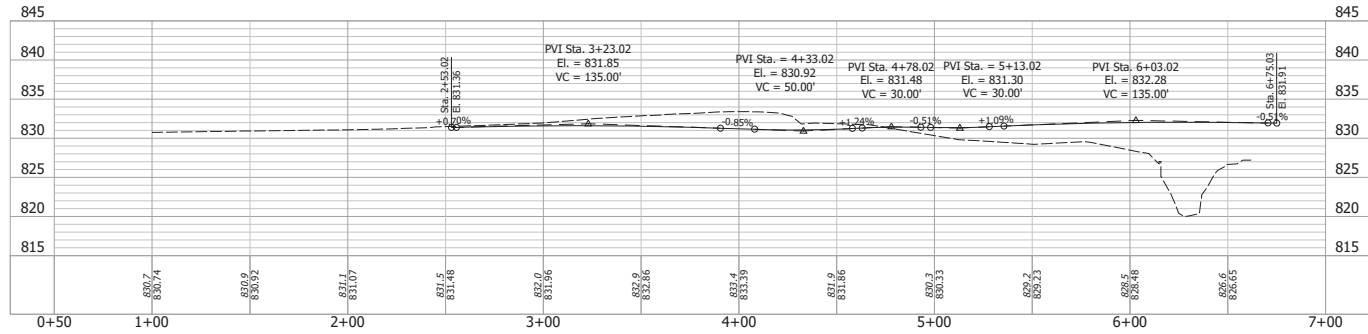
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VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	14 of 45
CONTRACT	PROJECT
EN-359	---



PROFILE - LINE "M2"
Sta. 1+00.00 to 3+24.35



PROFILE - LINE "M3"
Sta. 1+00.00 to 2+81.04



PROFILE - LINE "EP2"
Sta. 1+00.00 to 6+49.47

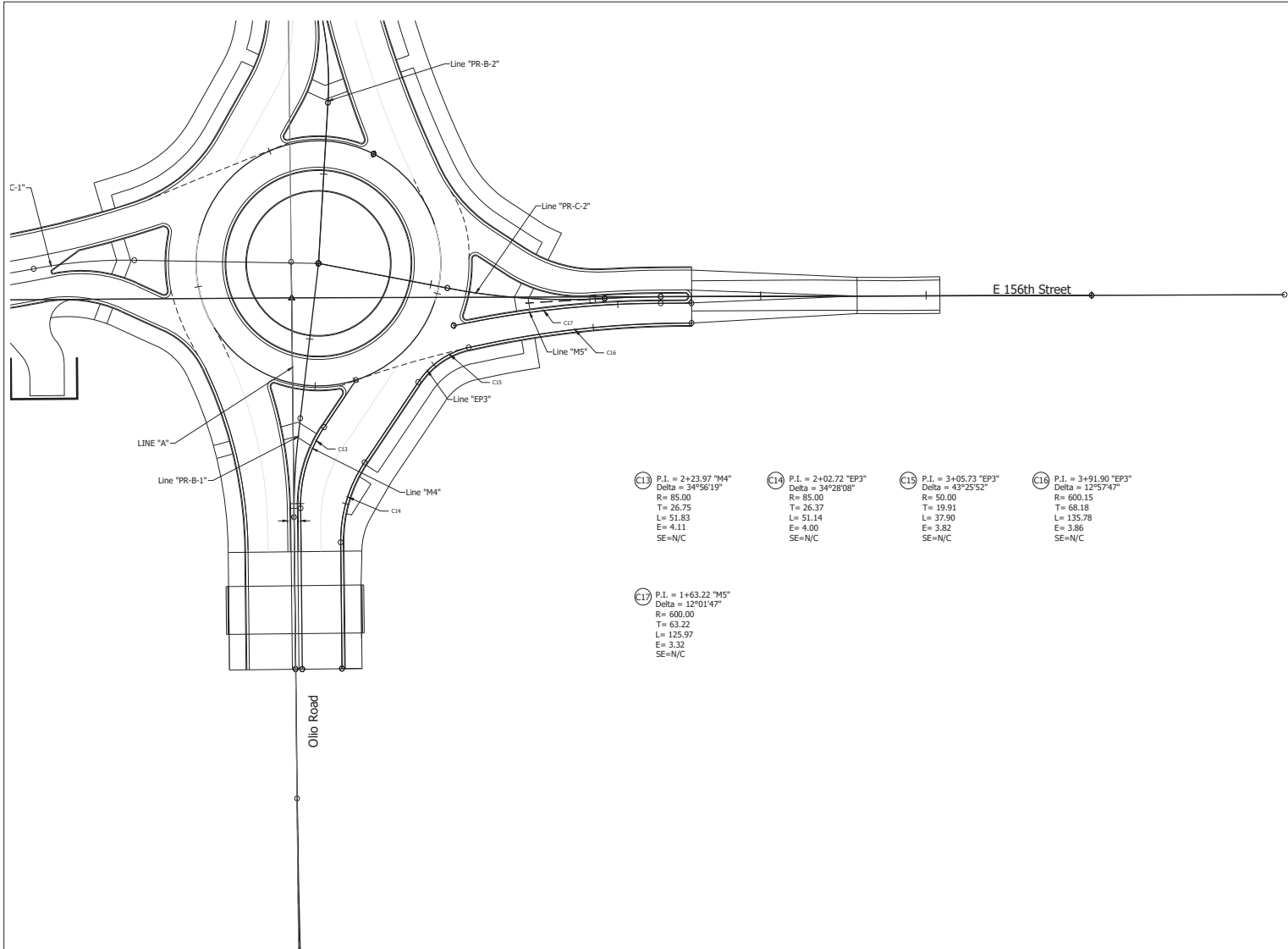
Date: Apr 12, 2024, 2:08pm User Name: Noah Adams File: I:\Projects\Production\2101733\2101733-2024\2101733-2024\HARDWARE\SRV_BLD_Geometrics_Profile.dwg - (LINE EP2 M2 M3)

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

ROUNDABOUT GEOMETRICS
LINE "M2", LINE "EP2", LINE "M3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	15 of 45
CONTRACT	PROJECT
EN-359	---



- C13** P.I. = 2+23.97 "M4"
 Delta = 34°56'19"
 R= 85.00
 T= 26.75
 L= 51.83
 E= 4.11
 SE=N/C
- C14** P.I. = 2+02.72 "EP3"
 Delta = 34°28'08"
 R= 85.00
 T= 26.37
 L= 51.14
 E= 4.00
 SE=N/C
- C15** P.I. = 3+05.73 "EP3"
 Delta = 43°25'52"
 R= 50.00
 T= 19.91
 L= 37.90
 E= 3.82
 SE=N/C
- C16** P.I. = 3+91.90 "EP3"
 Delta = 12°57'47"
 R= 600.15
 T= 68.18
 L= 135.78
 E= 3.86
 SE=N/C
- C17** P.I. = 1+63.22 "M5"
 Delta = 12°01'47"
 R= 600.00
 T= 63.22
 L= 125.97
 E= 3.32
 SE=N/C

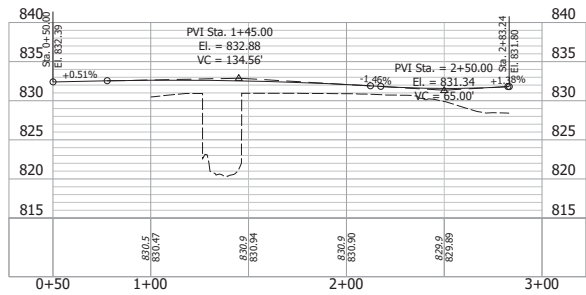
Date: Apr 12, 2016, 4:08pm User: jhwa File: M45.dwg
 Path: \\net\hwy\production\jwha\2016\12-2017\CAD\M45\DWG\RD_Geometrics.dwg

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: EWA	DRAWN: EWA				
CHECKED: JNH	CHECKED: JNH				

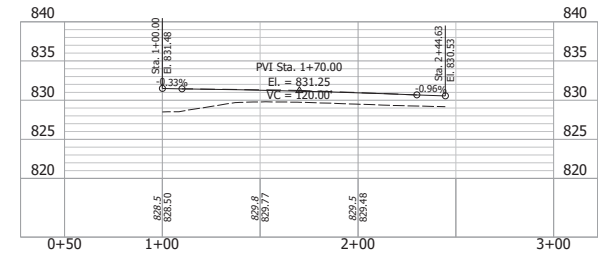
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

**ROUNDBOUT GEOMETRICS
 DETAIL**

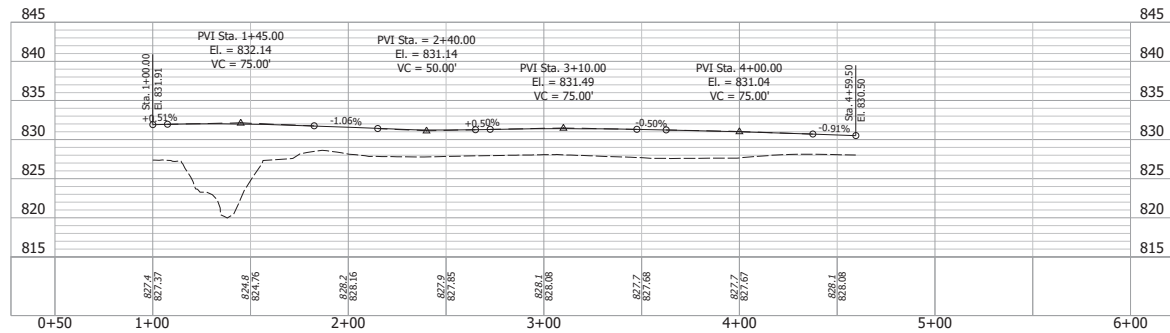
HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	16 of 45
CONTRACT	PROJECT
EN-359	---



PROFILE - LINE "M4"
Sta. 1+00.00 to 2+83.24



PROFILE - LINE "M5"
Sta. 1+00.00 to 2+44.63



PROFILE - LINE "EP3"
Sta. 1+00.00 to 5+69.59

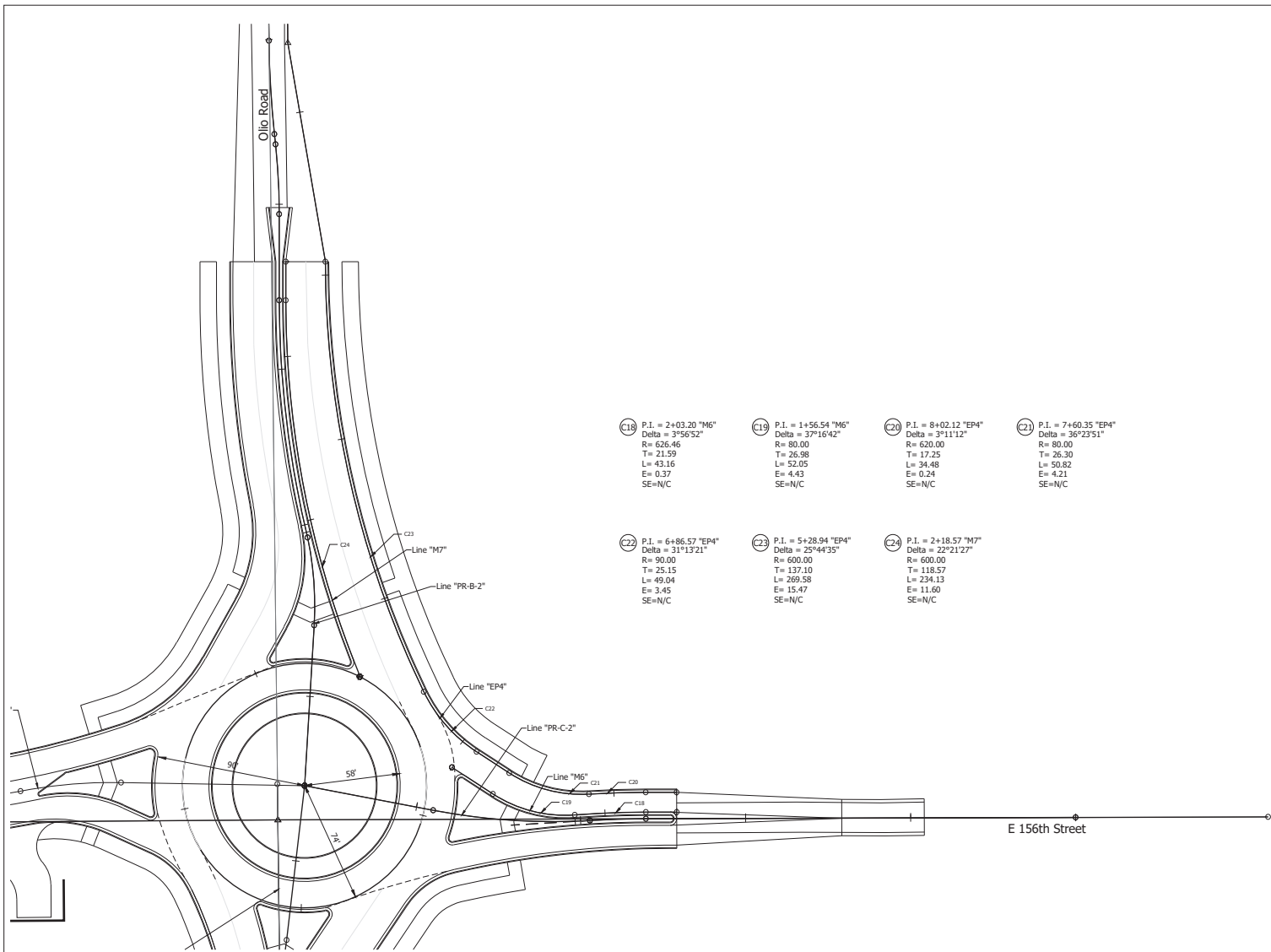
Date: Apr 12, 2024, 4:08pm User Name: Noah Hagan
 File: I:\InRoads\Production\Files\2024\24-202\24\Hwy\MSW\SRV_BD_Geometrics_Profile.dwg - (LINE EP3 M4 M5)

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EWA	DRAWN: EWA			
CHECKED: JNH	CHECKED: JNH			

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

ROUNDABOUT GEOMETRICS
LINE "M4", LINE "EP3", LINE "M5"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	17 of 45
CONTRACT	PROJECT
EN-339	---



C18 P.I. = 2+03.20 "M6"
 Delta = 3°56'52"
 R= 636.46
 T= 21.59
 L= 43.16
 E= 0.37
 SE=N/C

C19 P.I. = 1+56.54 "M6"
 Delta = 37°16'42"
 R= 80.00
 T= 26.98
 L= 52.05
 E= 4.43
 SE=N/C

C20 P.I. = 8+02.12 "EP4"
 Delta = 3°11'12"
 R= 620.00
 T= 17.25
 L= 34.48
 E= 0.24
 SE=N/C

C21 P.I. = 7+60.35 "EP4"
 Delta = 36°23'51"
 R= 80.00
 T= 26.30
 L= 50.82
 E= 4.21
 SE=N/C

C22 P.I. = 6+86.57 "EP4"
 Delta = 31°13'21"
 R= 90.00
 T= 25.15
 L= 49.04
 E= 3.45
 SE=N/C

C23 P.I. = 5+28.94 "EP4"
 Delta = 25°44'35"
 R= 600.00
 T= 137.10
 L= 269.58
 E= 15.47
 SE=N/C

C24 P.I. = 2+18.57 "M7"
 Delta = 22°21'22"
 R= 600.00
 T= 118.57
 L= 234.13
 E= 11.60
 SE=N/C

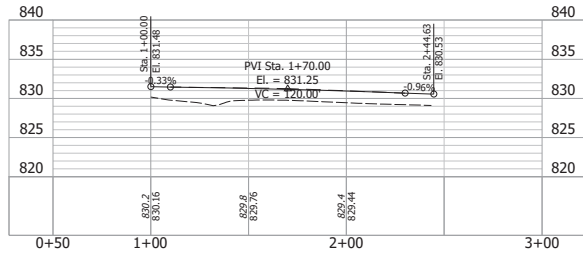
Date: Apr 12, 2024, 4:01pm File: Roundabout_Misc.dwg
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EWA	DRAWN: EWA			
CHECKED: JNH	CHECKED: JNH			

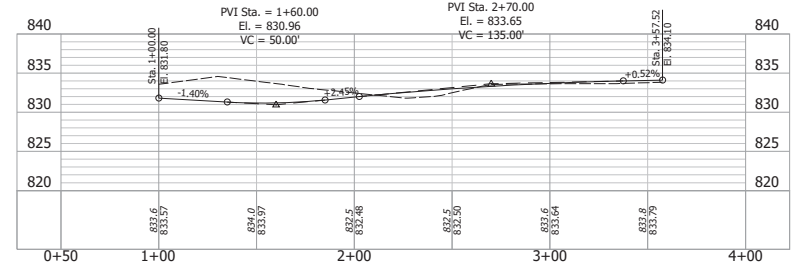
CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

 ROUNDABOUT GEOMETRICS
 DETAIL

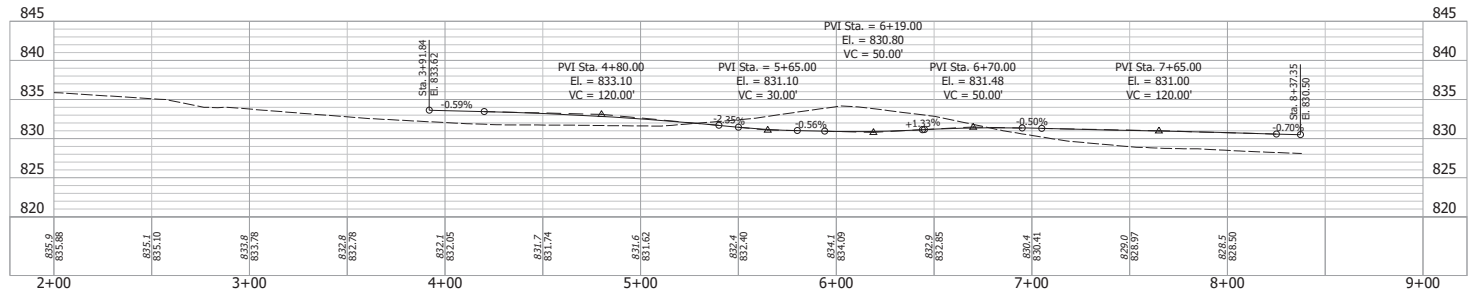
HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	18 of 45
CONTRACT	PROJECT
EN-359	---



PROFILE - LINE "M6"
Sta. 1+00.00 to 2+43.45



PROFILE - LINE "M7"
Sta. 1+00.00 to 3+57.52



PROFILE - LINE "EP4"
Sta. 1+00.00 to 9+47.15

Date: Apr 2, 2014 4:56PM User: Naveed Nadeem
 File: I:\Projects\Production\140312\140312\07\CD\Roundabout\GIS\RD_Geometrics_Profile.dwg - (LINE EP4 R6 V7)

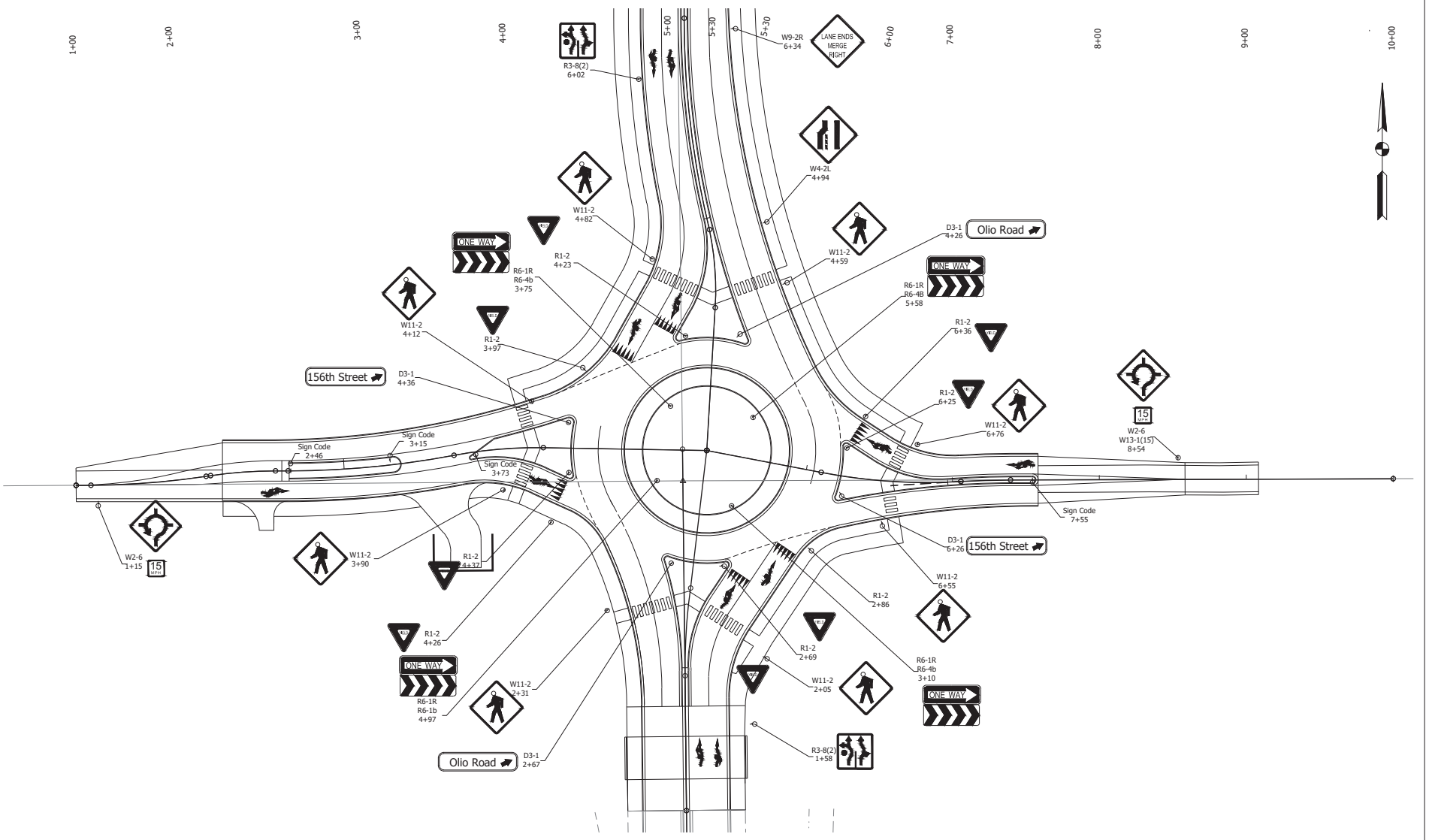
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

ROUNDAABOUT GEOMETRICS
LINE "M5", LINE "EP4", LINE "M7"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	2101733
SURVEY BOOK	SHEET
ELECTRONIC	19 of 45
CONTRACT	PROJECT
EN-339	---

1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00



Date: Apr 12, 2024, 4:01pm User Name: Alex Hagan
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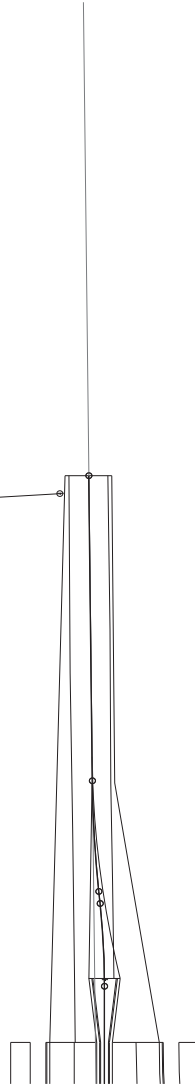
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	

CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY
 PAVEMENT MARKING AND SIGNAGE
 PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	20 of 45
CONTRACT	PROJECT
EN-359	---



W2-6
W13-1(15)
9+46



Date: Apr 12, 2024, 4:02pm User Name: Alex Gagan
 File: \\s01\work\Production\2024\2024-2027\CD\Sign\work\W2-6, W13-1.dwg

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ EWA	DRAWN: _____ EWA		
CHECKED: _____ JNH	CHECKED: _____ JNH		

CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

 PAVEMENT MARKING AND SIGNAGE
 PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2101733
SURVEY BOOK	SHEET
ELECTRONIC	21 of 45
CONTRACT	PROJECT
EN-359	---

PROJECT	DESIGNATION
EN-359-026.2203	----
CONTRACT	BRIDGE FILE
----	29-00170

CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
29-00170	Continuous Reinforced Concrete Slab	1 Span: 26'-6" Skew: 00°00'00" Rt.	Sand Creek	1+35.93 "PR-B-1"



BRIDGE PLANS

FOR SPANS OVER 20 FEET

HAMILTON COUNTY BRIDGE #170

OLIO RD. OVER SAND CREEK

WAYNE TOWNSHIP, HAMILTON COUNTY, INDIANA

PB-##-####

Bridge Replacement on Olio Road Over Sand Creek
Located 0.04 miles south of 156th St.
Sections 14 & 13, T18N, R5E, Wayne Township, Hamilton County

TRAFFIC DATA	
A.A.D.T. (2025)	4,300 V.P.D.
A.A.D.T. (2045)	5,300 V.P.D.
D.H.V. (---)	530 V.P.H.
DIRECTIONAL DISTRIBUTION	52%
TRUCKS	3.6% A.A.D.T. 4.4% D.H.V.

DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL AGENCY COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

APPROVED BY:
CITY OF NOBLESVILLE BOARD OF PUBLIC WORKS & SAFETY

Date: _____

Jack Martin _____ President

John Elmer _____ Member

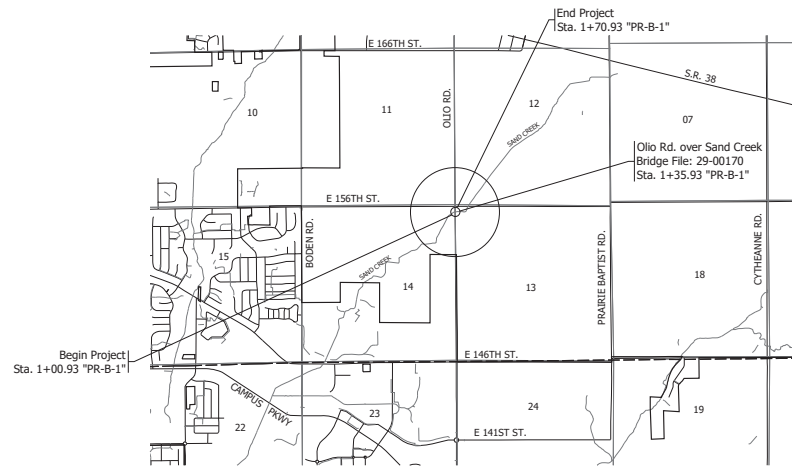
Laurie Dyer _____ Member

Rick Taylor _____ Member

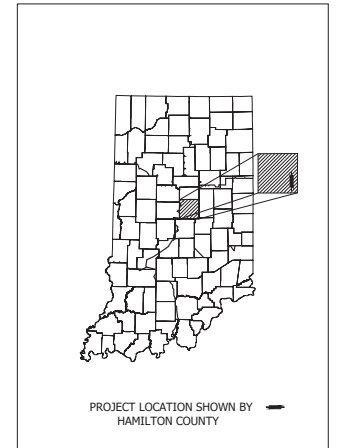
John Distlear _____ Member

Evelyn Lees _____ Clerk

Alison Krupski _____ City Engineer



VICINITY MAP



LATITUDE: 40°00'57"N LONGITUDE: 85°55'09"W

BRIDGE LENGTH: 0.013 MI.
ROADWAY LENGTH: 0.195 MI.
TOTAL LENGTH: 0.208 MI.
MAX. GRADE: 1.47 %

HUC (12): 0512020109

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

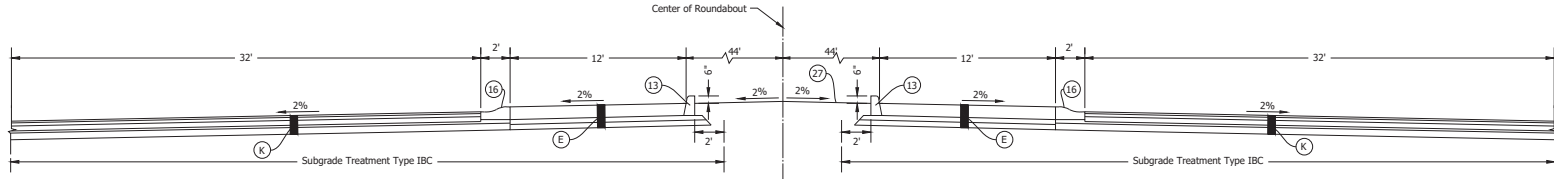


PLANS
PREPARED BY: LOCHMUELLER GROUP, INC. (317) 222-3880
PHONE NUMBER

CERTIFIED BY: _____ DATE _____

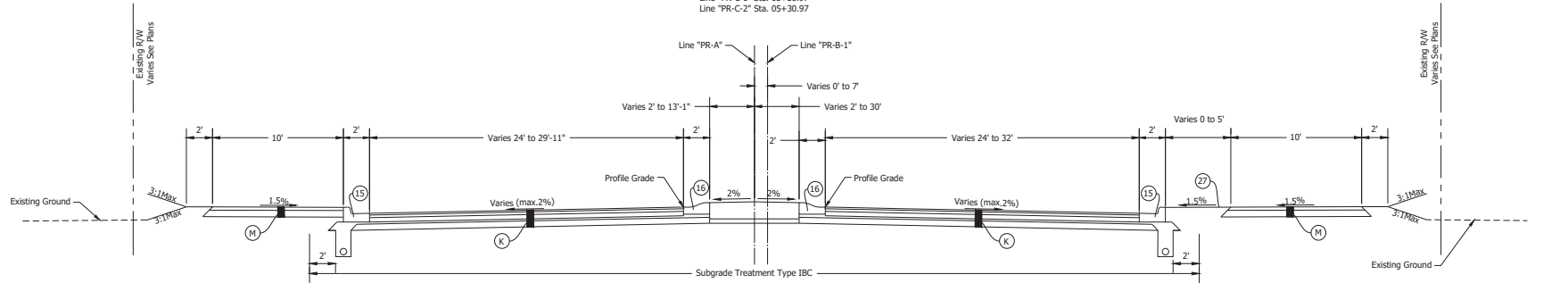
BRIDGE FILE	
29-00170	
DESIGNATION	

SURVEY BOOK	SHEET
ELECTRONIC	1 of 8
CONTRACT	PROJECT
---	EN-359-026.2203



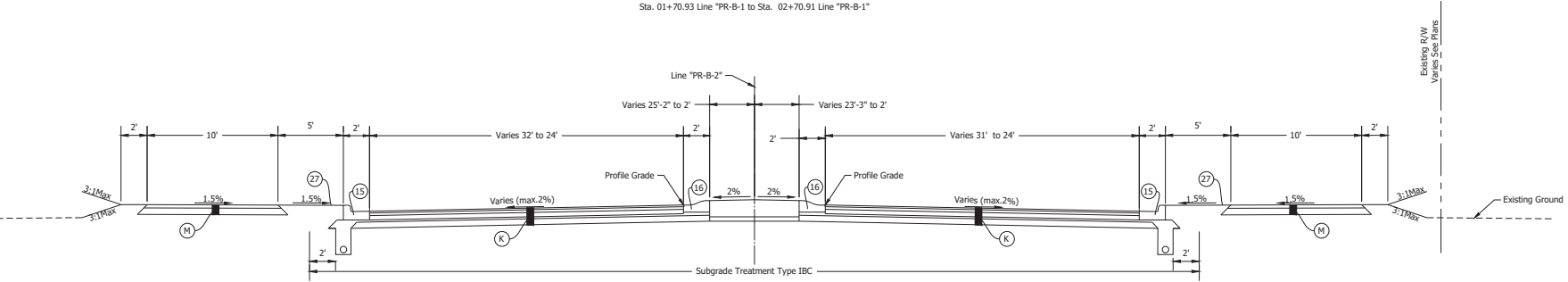
TYPICAL SECTION - ROUNDABOUT

Radial Around
 Line "PR-B-1" Sta. 03+45.91
 Line "PR-B-1" Sta. 03+45.91
 Line "PR-C-1" Sta. 05+30.97
 Line "PR-C-2" Sta. 05+30.97



**TYPICAL SECTION - SPLITTER ISLAND
 OLIO ROAD**

Sta. 01+70.93 Line "PR-B-1" to Sta. 02+70.91 Line "PR-B-1"



**TYPICAL SECTION - SPLITTER ISLAND
 OLIO ROAD**

Sta. 04+20.91 Line "PR-B-2" to Sta. 06+65.28 Line "PR-B-2"

FOR INFORMATION ONLY

<p>(E) Concrete Truck Apron: 10' P.C.P. (Decorative) on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on HMA Trail (Pav): 330 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on 6" Compacted Aggregate for Base Type 'O' NO.53 on Subgrade Treatment, Type III 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on HMA, Asphalt, 3/4" in.</p>	<p>(K) HMA Pavement: 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS CCQA-HMA, 3, 70, Intermediate, OG 19mm, on 660 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on Subgrade Treatment, Type I.C. (16) Curb, Integral, Concrete</p>	<p>(W) HMA Widening, Type C, Consisting of 165 LB/SYS CCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 2, 64, Intermediate, 19mm, on 300 LB/SYS CCQA-HMA, 2, 64, Base, 19mm, on 6 in. Compacted Aggregate NO.53, on Subgrade Treatment, Type I (16) Curb, Integral & Concrete</p>	<p>(27) Seed Mixture, Type 'U'</p>
---	---	---	------------------------------------

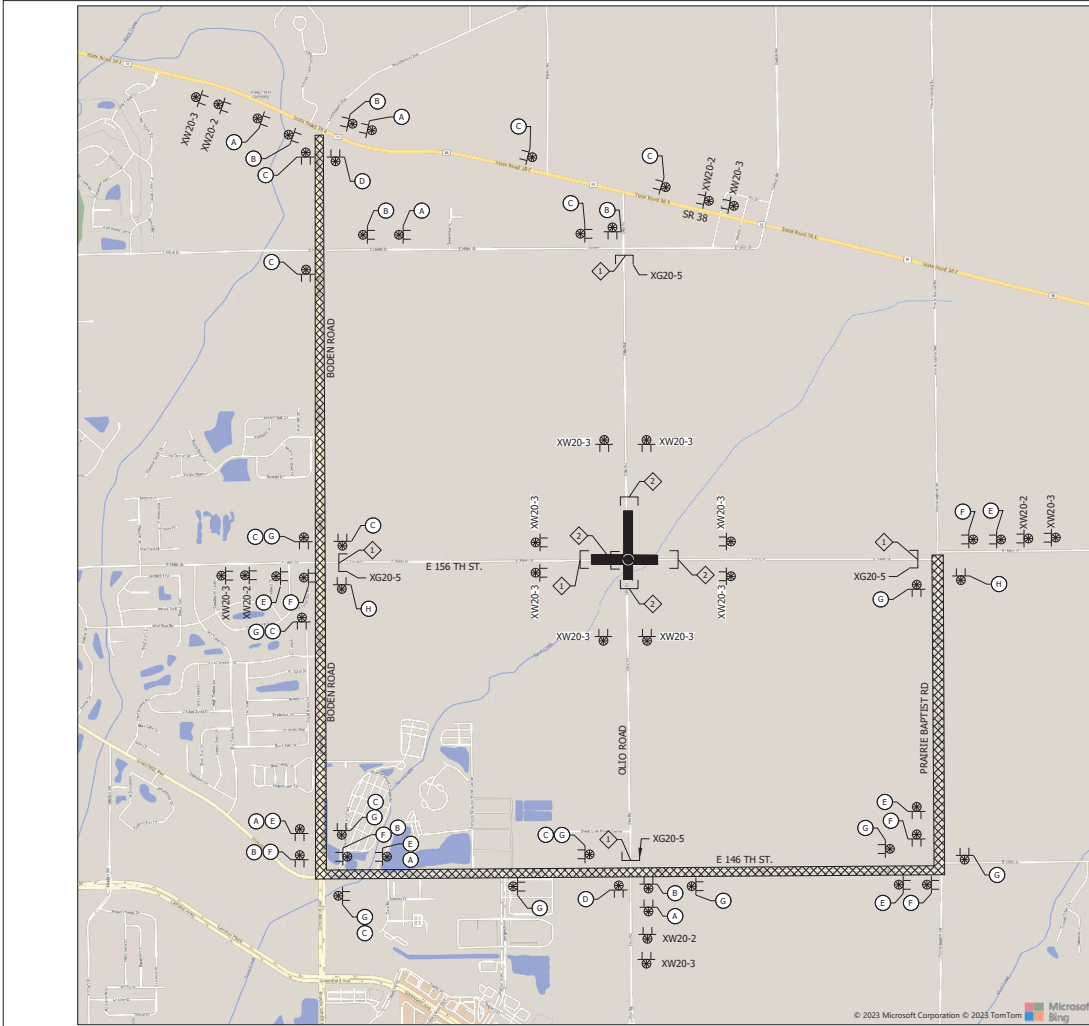
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EWA		
DRAWN: EWA		
CHECKED: JNH		
CHECKED: JNH		

CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY			
TYPICAL CROSS SECTIONS LINE "PR-B-1" & LINE "PR-B-2"			

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	29-00170
VERTICAL SCALE	DESIGNATION
N/A	----
SURVEY BOOK	SHEET
ELECTRONIC	3 of 8
CONTRACT	PROJECT
	EN-359-036.2003

Date: Apr 14, 2024, 2:52pm User: Mwaiz_Baqai\WBAE
 File: I:\WORK\PROJECTS\11273077\ENR\11273077\02\BIB\11273077.dwg (P19 of 2)

Date: Apr 15, 2024, 2:50pm User Name: EWA\jeb@indiana.gov
 File: I:\GIS\mxd\production\156TH_OLIO_RD_2407.dwg (PLOT: 156TH_OLIO_RD_2407.dwg)



FOR INFORMATION ONLY



CONSTRUCTION SIGN SCHEDULE					
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY	
R11-2	"ROAD CLOSED" SIGN	48 x 30		5	
R11-4	"ROAD CLOSED TO THRU TRAFFIC" SIGN	60 x 30		4	
XG20-5	"ROAD CLOSED AFTER " SIGN	60 x 36		4	
XM4-10 (L or R)	"DETOUR" SIGN	48 x 18		4	
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	4	
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	12	
				TOTAL TYPE "A" SIGNS	16

Detour Route Marker Assemblies 50 Req'd.
 Road Closure Sign Assemblies 9 Req'd.
 Type III-A Barricades 120 LFT
 Type III-B Barricades 96 LFT

LEGEND:

156TH ST
CLOSED ON OR
AFTER _____
XG20-5

OLIO RD
CLOSED ON OR
AFTER _____
XG20-5

DETOUR AHEAD
XW20-2

ROAD CLOSED AHEAD
XW20-3

ROAD CLOSED
R11-2

ROAD CLOSED
TO
THRU TRAFFIC
R11-4

DETOUR
XM4-10 (R or L)

A
DETOUR
OLIO RD.
24"x12"
OLIO RD
21"x15"

B
DETOUR
OLIO RD.
24"x12"
OLIO RD
21"x15"

C
DETOUR
OLIO RD.
24"x12"
OLIO RD
21"x15"

D
END
DETOUR
OLIO RD.
24"x12"
OLIO RD
21"x15"

E
DETOUR
156TH ST.
24"x12"
156TH ST
21"x15"

F
DETOUR
156TH ST.
24"x12"
156TH ST
21"x15"

G
DETOUR
156TH ST.
24"x12"
156TH ST
21"x15"

H
END
DETOUR
156TH ST.
24"x12"
156TH ST
21"x15"

- Road Closure Sign Assembly w/ Type III-B Barricade (24 LFT) And R11-4 And XM4-10 (L or R)
- Road Closure Sign Assembly w/ Type III-A Barricade (24 LFT) And R11-2

Construction Zone
 Detour Route

GENERAL NOTES

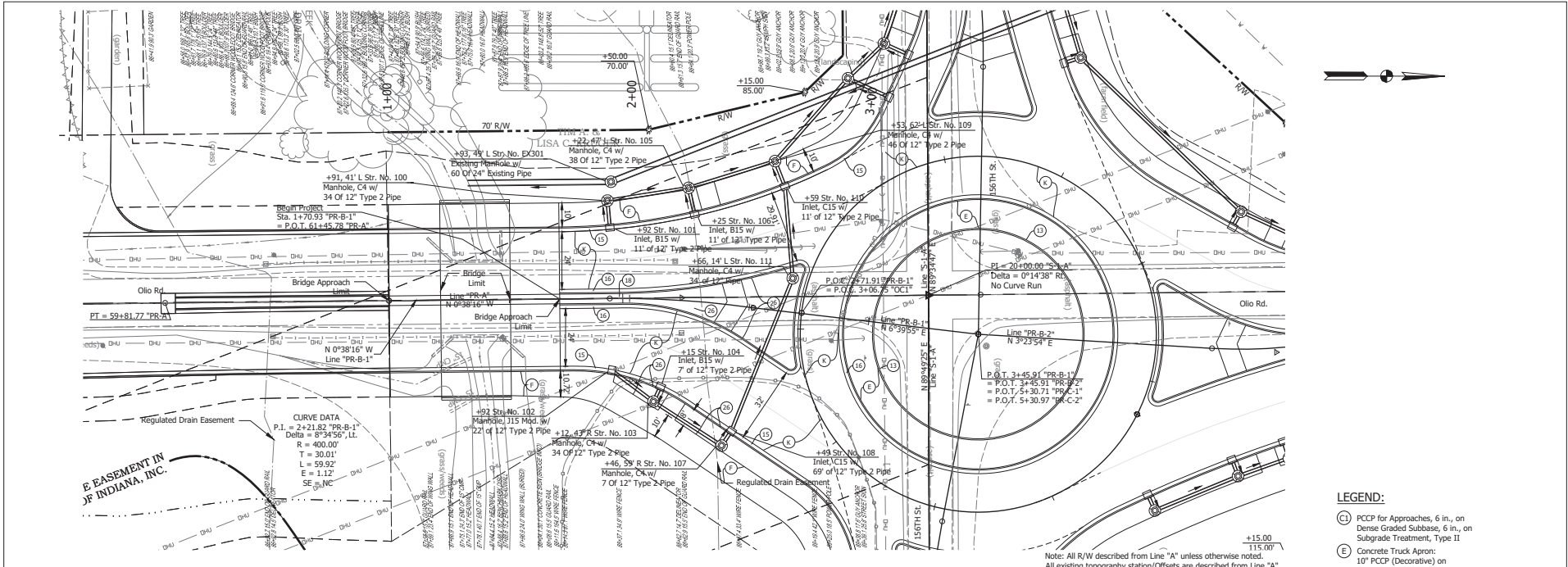
- All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
- See INDOT Std. Dwg. 801-TCDD-01 for sign spacing requirements and additional notes.
- See INDOT Std. Dwg. 801-TCLG-01 for standard notes.
- Type B construction warning lights shall be used with all signs located on road closure sign assemblies. Type A construction warning lights shall be used on all other construction signs.
- Contractor shall maintain access to all commercial and private properties during construction.
- XG20-5 signs shall be installed a minimum of 14 days prior to closing the road and removed when the road is closed to traffic.

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

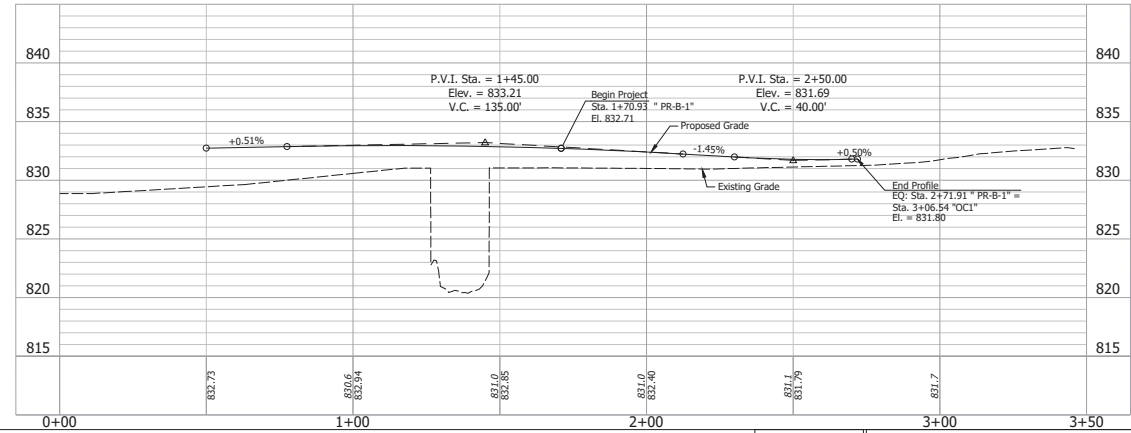
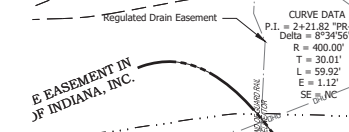
MAINTENANCE OF TRAFFIC
OLIO ROAD

HORIZONTAL SCALE	BRIDGE FILE
N/A	29-00170
VERTICAL SCALE	DESIGNATION
N/A	---
SURVEY BOOK	SHEET
ELECTRONIC	4 of 8
CONTRACT	PROJECT
---	EN-359-026.2203

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: EWA	DRAWN: EWA	
CHECKED: JNH	CHECKED: JNH	



Note: All R/W described from Line "A" unless otherwise noted.
All existing topography station/Offsets are described from Line "A".

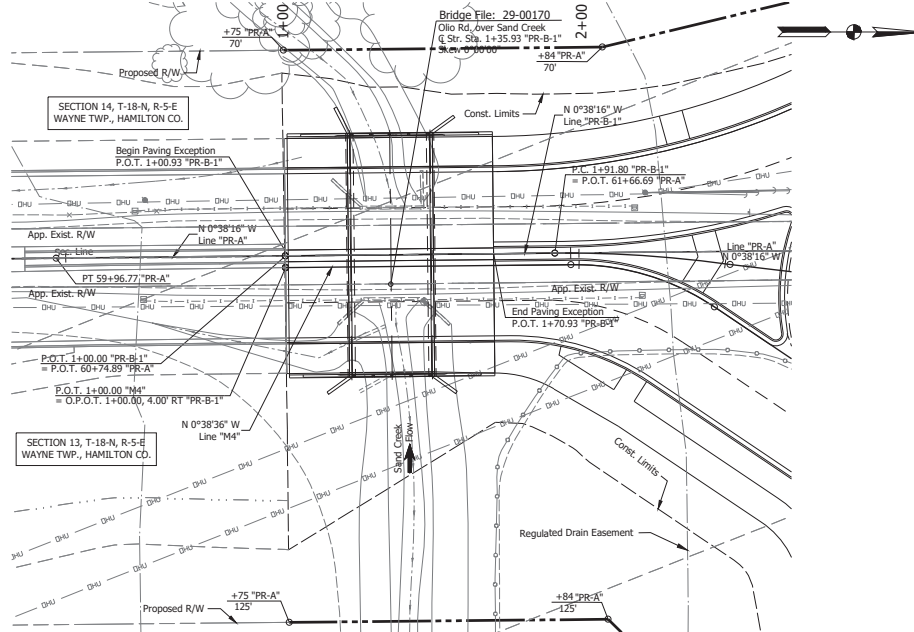


FOR INFORMATION ONLY

- LEGEND:**
- (C) PC/P for Approaches, 6 in., on Dense Graded Subbase, 6 in., on Subgrade Treatment, Type II
 - (E) Concrete Truck Apron: 10" PC/P (Decorative) on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm
 - (F) HMA for Sidewalk 330 LB/SYS HMA Surface, Type B (Placed in One Lift), on 6 in. Compacted Aggregate, NO.53, on Subgrade Treatment, Type III
 - (K) HMA Pavement 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 3, 64, Intermediate, 19mm, on 440 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on 200 LB/SYS CCQA-HMA, 3, 76, Intermediate, OG 19mm, on 660 LB/SYS CCQA-HMA, 3, 64, Base, 25mm, on Subgrade Treatment, Type IC
 - (R) 165 LB/SYS CCQA-HMA, 3, 70, Surface, 9.5mm, on Milling, Asphalt, 1 1/2 in.
 - (W) HMA Widening, Type C Consisting of 165 LB/SYS CCQA-HMA, 2, 64, Surface, 9.5mm, on 275 LB/SYS CCQA-HMA, 2, 64, Intermediate, 19.0mm, on 300 LB/SYS CCQA-HMA, 2, 64, Base, 19.0mm, on 6 in. Compacted Aggregate NO.53, on Subgrade Treatment, Type I
 - (13) Curb, Integral, Concrete
 - (15) Curb and Gutter, Concrete, Modified, Type II
 - (16) Curb, Integral B, Concrete, Modified
 - (17) Center Curb D, Concrete
 - (18) PC/P, 13" (Decorative), on 8" Compacted Aggregate, NO. 53, on Subgrade Treatment, Type IC
 - (26) Sodding

Date: Apr 15, 2024, 2:28pm
 User Name: Brock Wilson
 File: P:\Production\1843\1843-01\1843-01.dwg, Plan & Profile.dwg - (PR-B-1)

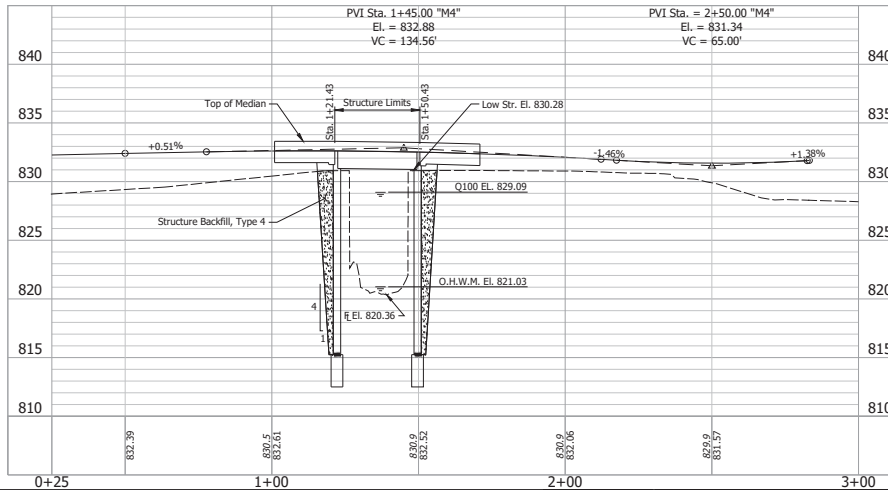
RECOMMENDED FOR APPROVAL	DESIGNED: EWA	DRAWN: EWA	CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY	HORIZONTAL SCALE	BRIDGE FILE
	CHECKED: JNH	CHECKED: JNH		DESIGN ENGINEER	DATE
PLAN & PROFILE - LINE "PR-B-1" STA. 1+00 TO STA. 3+46				VERTICAL SCALE	1" = 5'
				SURVEY BOOK	SHEET
				ELECTRONIC	5 of 8
				CONTRACT	PROJECT
					EN-359-026.2/03



EXISTING STRUCTURE

The existing structure (29-00170) is a single span precast concrete arch box culvert built in 1992. The bridge span length is 20.00' with a 32.13' total clear roadway width.

Existing structure to be removed.



HYDRAULIC DATA

DRAINAGE AREA	=2.94 mi ²
PROPOSED WATERWAY AREA	=275.14 ft ²
Q100 DISCHARGE	=600 ft ³ /sec.
Q100 ELEVATION	=829.09 ft.
Q100 HEADWATER ELEVATION	=829.62 ft.
ROAD OVERFLOW	=0.0 ft ²
Q100 VELOCITY	=4.85 ft/sec
MIN. LOW STRUCTURE ELEVATION	=830.28 ft.

SCOUR DATA

Q100 PEAK DISCHARGE	=600 ft ³ /sec
Q100 MAXIMUM VELOCITY	=3.13 ft./sec
Q100 CONTRACTION SCOUR	=0.96 ft.
Q100 TOTAL SCOUR	=0.96 ft.
Q100 LOW SCOUR ELEVATION	=821.94 ft.
FLOWLINE ELEVATION	=822.90 ft.

REINFORCED CONCRETE SLAB BRIDGE

1 SPAN: 26'-6"
 CLEAR ROADWAY: 56'-0"
 SKEW: 00°00'00" RT.
 OLIO RD. OVER SAND CREEK
 HAMILTON COUNTY

RECOMMENDED FOR APPROVAL		
DESIGN ENGINEER _____ DATE _____		
DESIGNED: WSH	DRAWN: RJK	
CHECKED: BAC	CHECKED: WSH	

CITY OF NOBLESVILLE, INDIANA
 BOARD OF PUBLIC WORKS & SAFETY

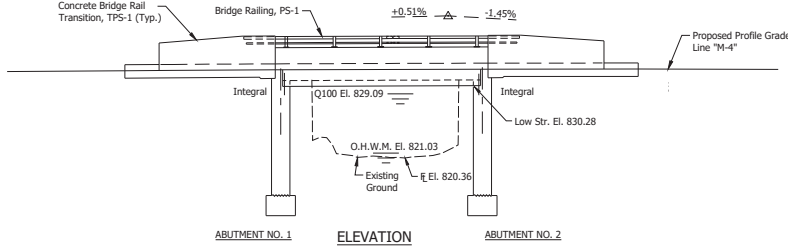
LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	29-00170
VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEET
ELECTRONIC	6 of 8
CONTRACT	PROJECT
---	EN-359-026.2203

VERTICAL CURVE INFORMATION

PVI = 1+45.00 "PR-B-1"
 EL. = 833.21
 V.C. = 135'
 G₁ = +0.51%
 G₂ = -1.45%

STRUCTURE TO BE BUILT TO A 135' VERTICAL CURVE



ELEVATION
 SCALE: 1/4"=1'-0"

DESIGN STRESSES

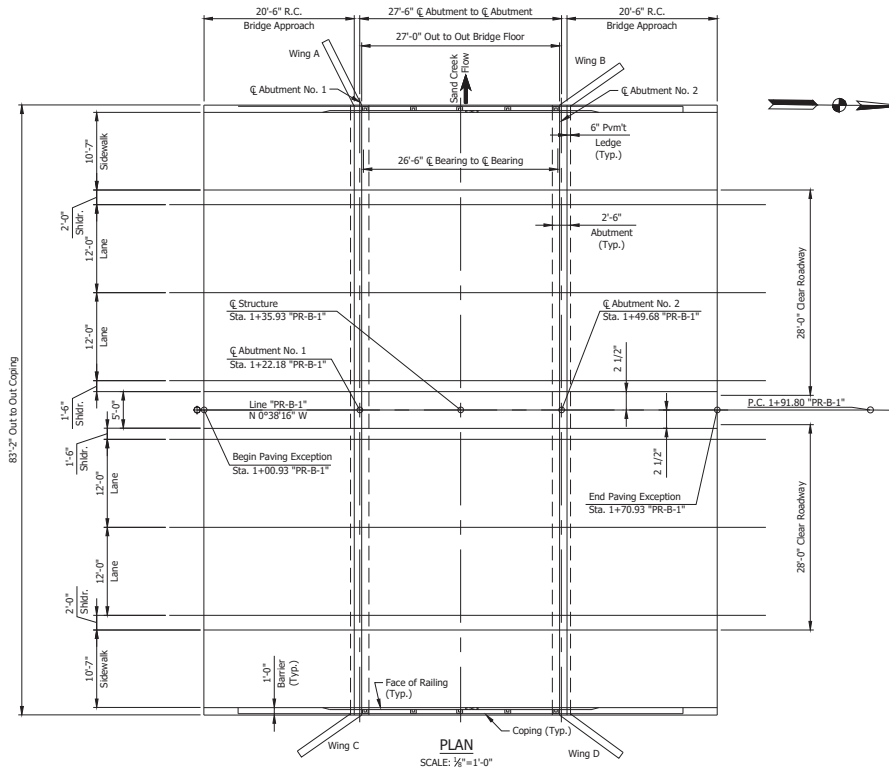
Class C Concrete: $f'_c = 4,000$ psi
 Reinforcing Steel (Grade 60): $f_y = 60,000$ psi

DESIGN DATA

- Live Load: Designed for HL-93 Loading, in accordance with the AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020.
- Dead Load: Actual weight plus 35 lb/ft² for future wearing surface and 15 lb/ft² for permanent metal deck forms.
- Bridge Slab: Designed with a 1'-5 1/2" structural depth plus 1/2" sacrificial wearing surface.

GENERAL NOTES

- Reinforcing steel covering shall be 2 1/2" in top and 1" minimum in bottom of floor slab, and 2" in all other parts, unless noted.
- Concrete requirements: Concrete in Superstructure to be Class "C". Concrete in Abutments to be Class "A". Concrete in Footings to be Class "B".
- Surface seal exposed faces of concrete barrier railing. Estimated Quantity = 805 SFT.

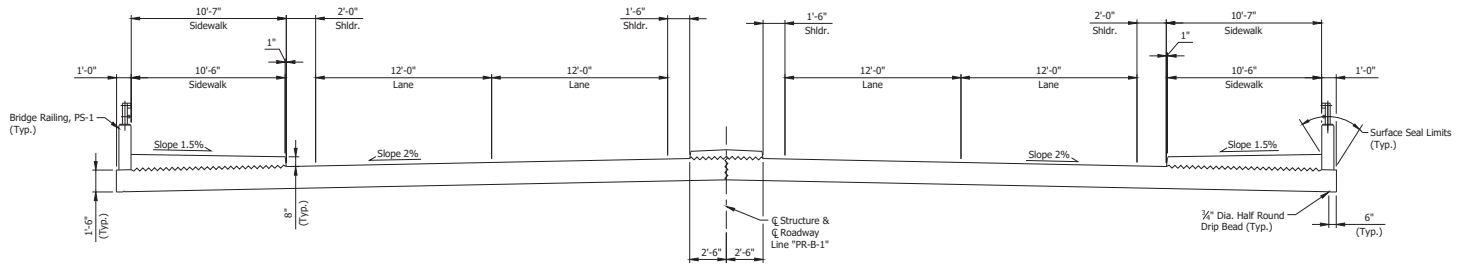


PLAN
 SCALE: 1/8"=1'-0"

REINFORCED CONCRETE SLAB BRIDGE
 1 SPAN: 26'-6"
 CLEAR ROADWAY: 56'-0"
 SKEW: 00°00'00"
 OLIO RD. OVER SAND CREEK
 HAMILTON COUNTY

Date: Apr 15, 2024, 2:55pm User: Admin: Daryl/ABase
 File: I:\Projects\1502122-2024\1502122-2024\Drawings\BID_Gen_Plan.dwg - General Plan 01

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	CITY OF NOBLESVILLE, INDIANA BOARD OF PUBLIC WORKS & SAFETY		HORIZONTAL SCALE	BRIDGE FILE
			AS SHOWN	29-00170
DESIGNED: WSH CHECKED: BAC	DRAWN: BHK CHECKED: WSH	VERTICAL SCALE _____		DESIGNATION _____
		GENERAL PLAN	SURVEY BOOK ELECTRONIC	SHEET 7 of 8
			CONTRACT _____	PROJECT BR-359-026.2203



BRIDGE TYPICAL SECTION
SCALE: 3/4"=1'-0"

Date: Apr 15, 2024, 2:25pm User: Admin: Bhang/V/Obase
File: I:\Projects\Files\2021\22-207\207\Plan Set\SHL_BD_Gen Plan.dwg - General Plan 02

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: WSH	DRAWN: BHK	
CHECKED: BAC	CHECKED: WSH	

CITY OF NOBLESVILLE, INDIANA
BOARD OF PUBLIC WORKS & SAFETY

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	29-00170
VERTICAL SCALE	DESIGNATION

SURVEY BOOK	SHEET
ELECTRONIC	8 of 8
CONTRACT	PROJECT
	BN-359-036.2203