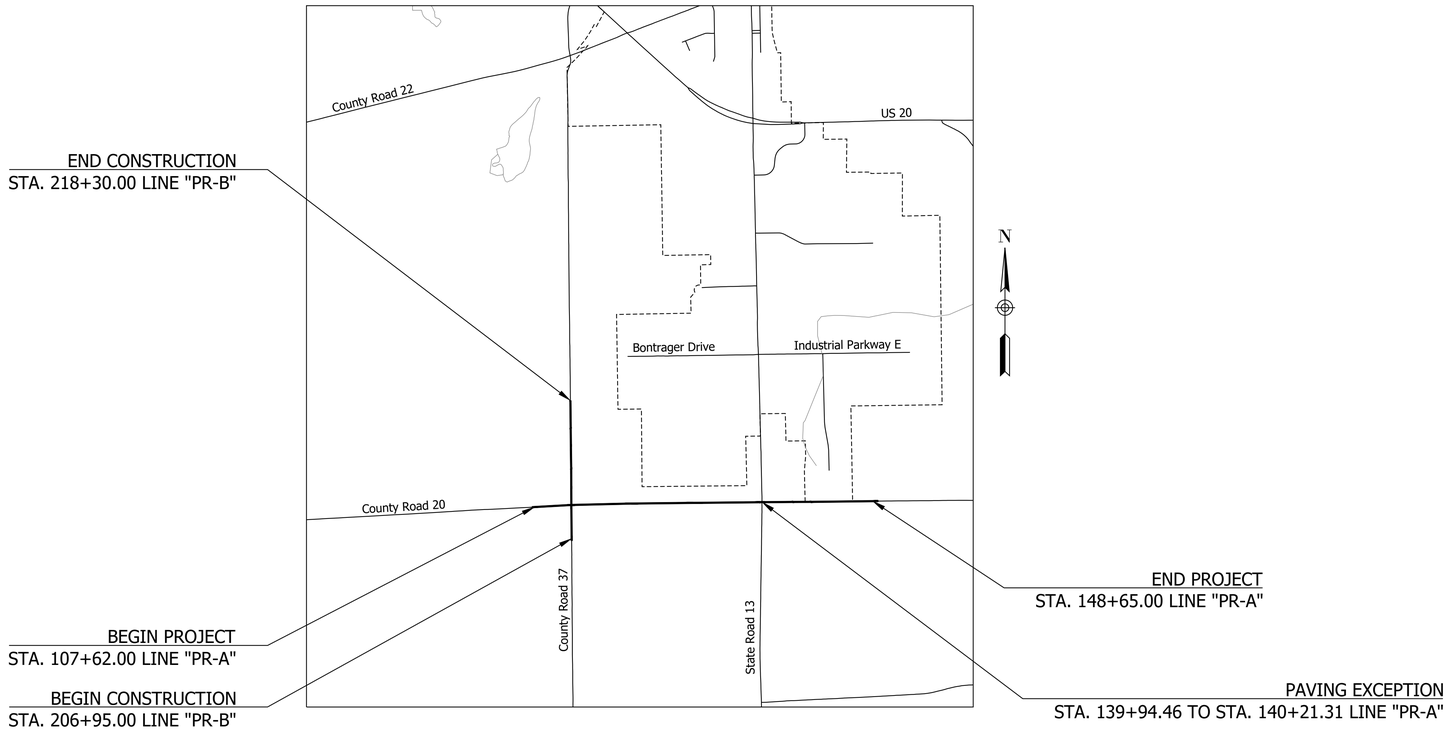
TOWN OF MIDDLEBURY, INDIANA

Intersection Improvements At CR 20 And CR 37

PROJECT ☐ SEWER ☐ WATER ☒ TRAFFIC ☒ STREET ☐ OTHER ☐ BRIDGE

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LOCHMUELLER GROUP

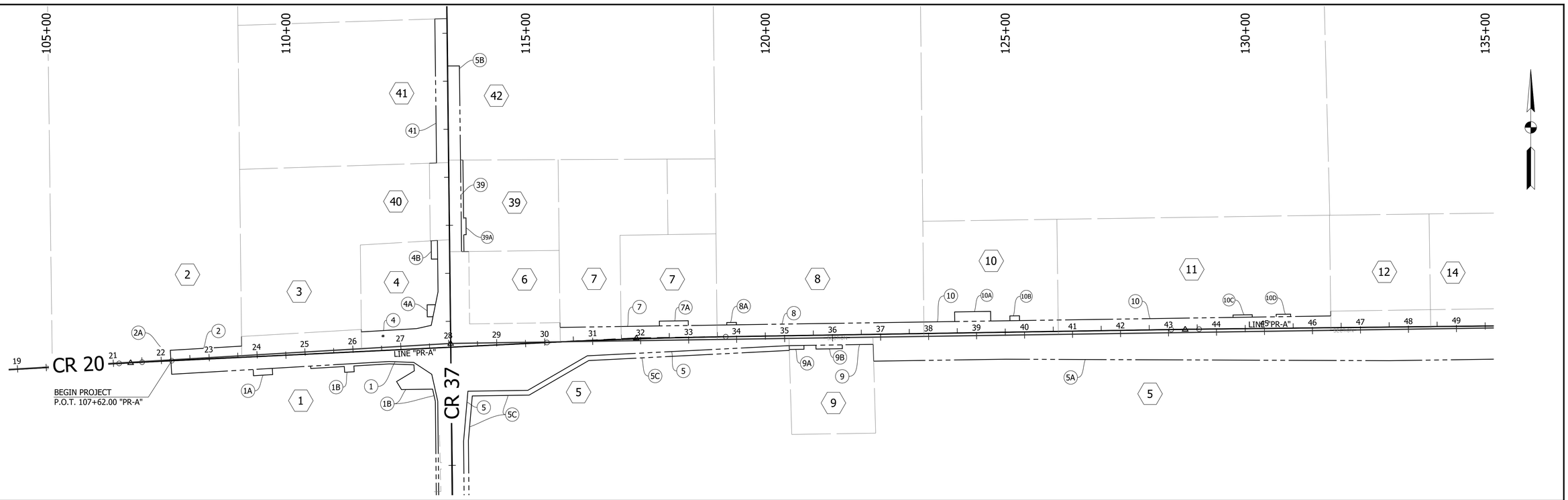
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

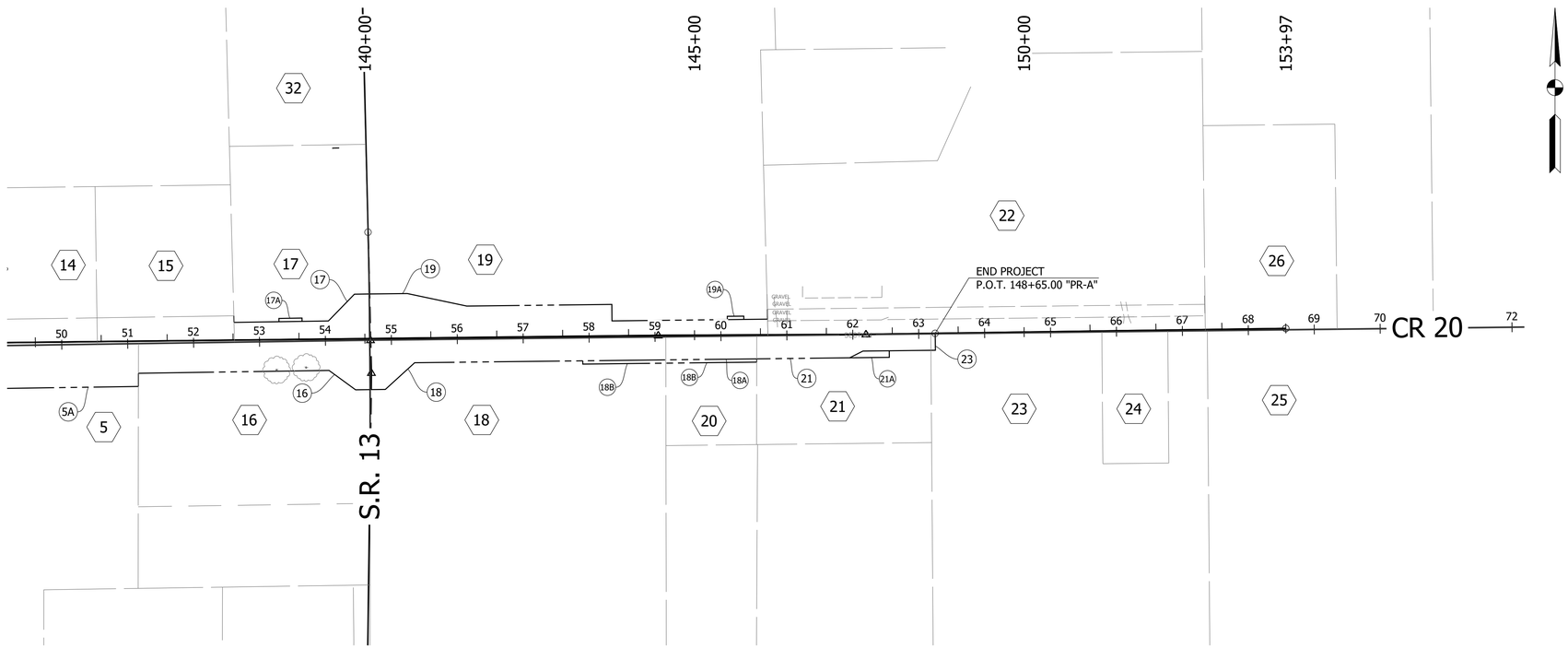
BARBIE SWIHART STUTZMAN, P.E. 3/7/2024 DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

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Date Plotted By: Mon Mar 04 11:14:14 2024
Plotted By: Matney, Jeff





Parcel Ownership

Parcel Number	Property Owner
1	D-ACT-Z LLC
2	HARLEY O & WANDA O BONTRAGER
3	GARY D & JENNIFER D CHIZUM
4	ROELETA K EICHER
5	ERM LAND HOLDINGS
6	GERALD ANDREW & GLENDA MILLER
7	JERRY D YODER TRUSTEE
8	JAYCO CORP
9	MILO IRALEE & ANNETTE MAST
10	TRI-COUNTY LAND TRUSTEE COROPORATION
11	TRI-COUNTY LAND TRUSTEE CORPORATION C/O NATHAN BONTRAGER
12	GARY & JODY YODER
14	SHERLIN D & JANELLE A MILLER
15	GARY L & ANNA L MILLER
16	FREEMAN J MILLER & AMY MILLER & JONAS L MILLER & LIZZIE MILLER
17	LEONA D BAKER, TRUSTEE
18	GRINER CONSERVATIVE MENNONITE CHURCH OF ELK CO IN
19	LINFORD D & ELAINE MARTIN
20	GRINER MENNONITE CHURCH
21	JARED L & ERNEST E YODER
22	LELLEN PROPERTIES LLC
23	ERNEST E & LAVERDA M YODER, TRUSTEES
24	TRESSIE J LEHMAN TRUSTEE OF TRESSIE J LEHMAN TRUST
25	TROYER LAMAR D & NAOMI H TROYER H&W
26	DARRELL & KAYLEE BONTRAGER
32	IRONS HALEY N
39	ERNEST J & ADA M YODER
40	KEITH & NORMA J HELMUTH TRUSTEES HELMUTH FAMILY REV LIV TRUST
41	KEITH A HELMUTH & NORMA J HELMUTH TRUSTEES LIV TRUST
42	ERM LAND HOLDINGS

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAT NO. 1

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 100'	
VERT. SCALE: N/A	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

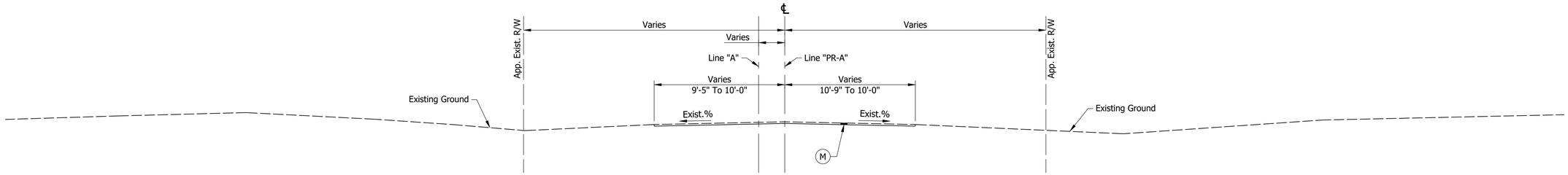
BARBARA L. SWIHART STUTZMAN — REGISTERED No. PE10911254 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

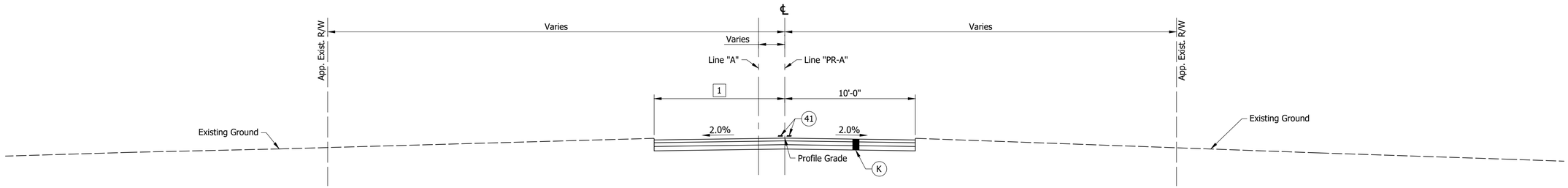
SHEET 2
OF 101

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Date/Time: 1/30/2024 3:58:19 PM
Plotted By: Mathias, Jeff



TYPICAL INCIDENTAL SECTION

Sta. 107+12.00 Line "PR-A" To Sta. 107+62.00 Line "PR-A"



1 10'-0" from Sta. 107+62.00 Line "PR-A" to Sta. 109+00.00 Line "PR-A"
Varies 10'-0" at Sta. 109+00.00 Line "PR-A" to 15'-1" at Sta. 113+06.12 Line "PR-A"
Varies 13'-0" at Sta. 113+85.72 Line "PR-A" to 10'-0" at Sta. 118+50.00 Line "PR-A"
10'-0" from Sta. 118+50.00 Line "PR-A" to Sta. 139+54.59 Line "PR-A"
10'-0" from Sta. 140+50.85 "PR-A" to Sta. 148+65.00 Line "PR-A"

TYPICAL FULL DEPTH SECTION

Sta. 107+62.00 Line "PR-A" To Sta. 139+94.46 Line "PR-A"

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(M) Milling Asphalt, 1 1/2 IN.

(41) Line, Paint, Solid, Yellow, 4 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS
PHASE 1

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1/4" = 1'-0"			
VERT. SCALE: 1/4" = 1'-0"			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

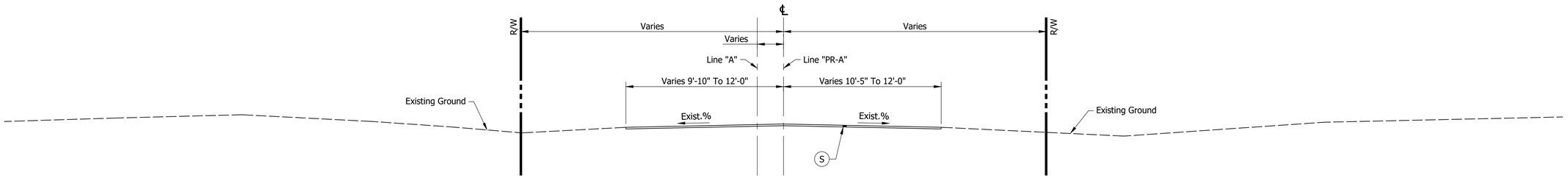
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

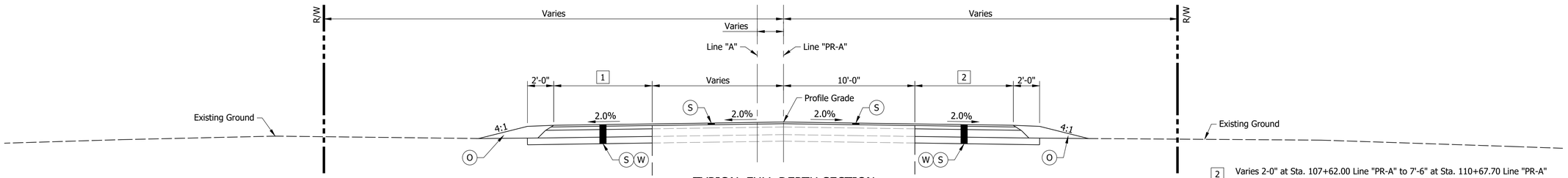
SHEET 3
OF 101

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TYPICAL INCIDENTAL SECTION

Sta. 107+12.00 Line "PR-A" To Sta. 107+62.00 Line "PR-A"

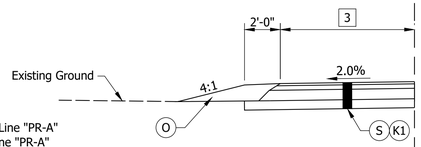


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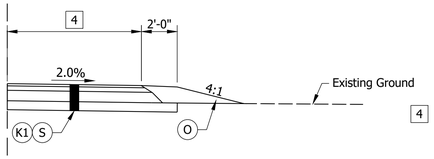
Sta. 107+62.00 Line "PR-A" To Sta. 112+03.65 Line "PR-A"
Sta. 114+84.47 Line "PR-A" To Sta. 122+35.00 Line "PR-A"
Sta. 145+77.00 Line "PR-A" To Sta. 148+65.00 Line "PR-A"

1 Varies 2'-0" at Sta. 107+62.00 Line "PR-A" to 4'-2" at Sta. 111+67.00 Line "PR-A"
Varies 4'-2" at Sta. 111+67.00 Line "PR-A' to 3'-7" at Sta. 112+09.68 Line "PR-A"
Varies 5'-8" at Sta. 114+84.47 Line "PR-A" to 7'-8" at Sta.116+25.00 Line "PR-A"
Varies 7'-8" at Sta. 116+25.00 Line "PR-A" to 2'-0" at Sta. 119+30.43 Line "PR-A"
2'-0" From Sta. 119+30.43 Line "PR-A" to Sta. 138+63.20 Line "PR-A"

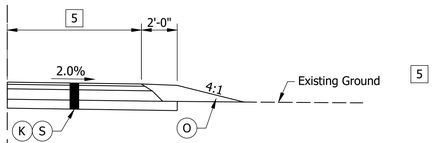
2 Varies 2-0" at Sta. 107+62.00 Line "PR-A" to 7'-6" at Sta. 110+67.70 Line "PR-A"
7'-6" From Sta. 110+67.70 Line "PR-A" to Sta. 112+03.65 Line "PR-A"
7'-6" From Sta. 114+78.51 Line "PR-A" to Sta. 115+25.00 Line "PR-A"
Varies 7'-6" at Sta. 115+25.00 Line "PR-A" to 2'-0" at Sta. 119+30.38 Line "PR-A"
2'-0" From Sta. 119+30.38 Line "PR-A" to Sta. 127+62.00 Line "PR-A"
Varies 2'-0" at Sta. 127+62.00 Line "PR-A" to 8'-0" at Sta. 130+78.00 Line "PR-A"



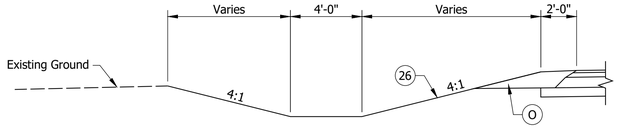
3 Varies 6'-11" at Sta. 112+09.68 Line "PR-A" to 8'-11" at Sta. 114+24.47 Line "PR-A"
Varies 8'-11" at Sta. 114+24.47 Line "PR-A' to 5'-8" at Sta. 114+84.47 Line "PR-A"
Varies 4'-0" at Sta. 138+63.20 Line "PR-A" to 9'-0" at. Sta. 139+38.44 Line "PR-A"



4 Varies 7-6" at Sta. 112+03.65 Line "PR-A" to 11'-6" at Sta. 112+63.65 Line "PR-A"
11'-6" From Sta. 112+63.65 Line "PR-A" to Sta. 114+18.51 Line "PR-A"
Varies 11'-6" at Sta. 114+18.51 Line "PR-A" to 7'-6" at Sta. 114+78.51 Line "PR-A"
Varies 15'-0" at Sta. 138+67.14 Line "PR-A" to 19'-8" at Sta. 139+37.67 Line "PR-A"
19'-8" From Sta. 139+37.64 Line "PR-A" to Sta. 139+94.46 Line "PR-A"

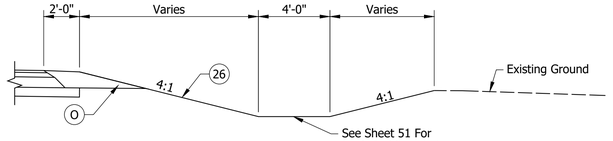


5 Varies 8'-0" at Sta. 130+75.00 Line "PR-A" to 13'-0" at Sta. 133+67.00 Line "PR-A"
13'-0" From Sta. 133+67.00 Line "PR-A" to Sta. 138+67.14 Line "PR-A"



TYPICAL DITCH SECTION, LEFT

Sta. 140+75.00 Line "PR-A" To Sta. 143+50.00 Line "PR-A"



TYPICAL DITCH SECTION, RIGHT

Sta. 115+90.80 Line "PR-A" To Sta. 116+90.19 Line "PR-A"
Sta. 122+35.00 Line "PR-A" To Sta. 136+35.00 Line "PR-A"
Sta. 145+00.00 Line "PR-A" To Sta. 147+50.00 Line "PR-A"

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(K1) HMA For Approaches:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(O) Compacted Aggregate, No. 53

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(26) Mulched Seeding

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS
PHASE 2

DRAWN: DJG	CHK'D: BJS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1/4" = 1'-0"			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

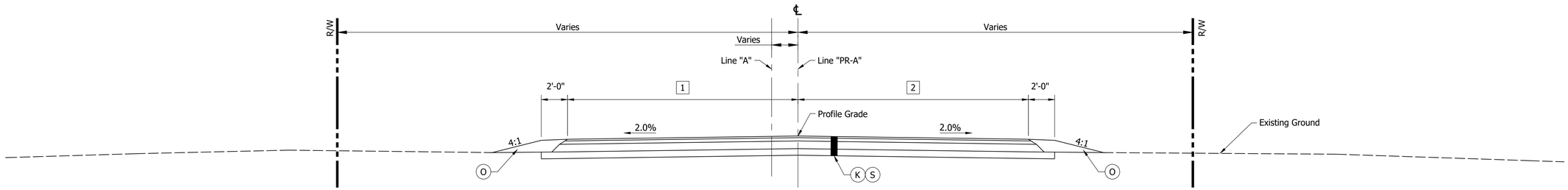
Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 4
OF 101

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Typical Sections PH 2

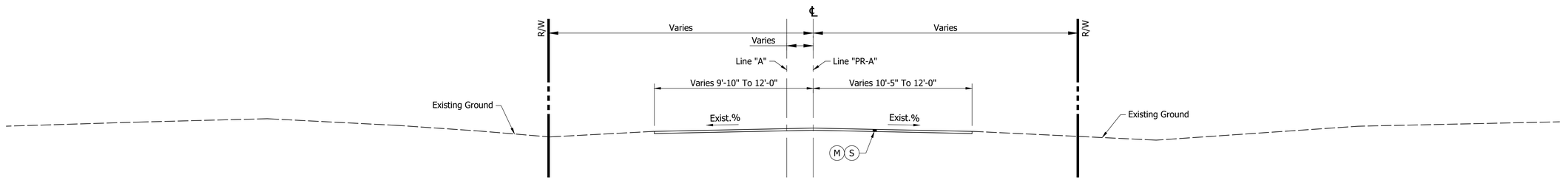


TYPICAL FULL DEPTH SECTION

Sta. 140+21.31 Line "PR-A" To Sta. 148+65.00 Line "PR-A"

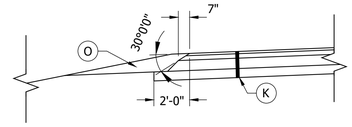
1 18'-8" From Sta. 140+21.31 Line "PR-A" to Sta. 140+76.73 Line "PR-A"
Varies 18'-8" at Sta. 140+76.73 Line "PR-A" to 16'-0" at Sta. 141+46.98 Line "PR-A"
12'-0" at Sta. 141+46.98 Line "PR-A" to Sta. 148+65.00 Line "PR-A"

2 29'-8" From Sta. 140+21.31 Line "PR-A" to Sta. 140+76.19 Line "PR-A"
Varies 29'-8" at Sta. 140+76.19 Line "PR-A" to 26'-6" at Sta. 141+24.98 Line "PR-A"
Varies 26'-6" at Sta. 141+24.98 Line "PR-A" to 23'-0" at Sta. 141+47.70 Line "PR-A"
23'-0" From Sta. 141+47.70 Line "PR-A" to Sta. 143+45.11 Line "PR-A"
Varies 23'-0" at Sta. 143+45.11 Line "PR-A" to 12'-0" at Sta. 148+65.00 Line "PR-A"



TYPICAL INCIDENTAL SECTION

Sta. 148+65.00 Line "PR-A" To Sta. 149+15.00 Line "PR-A"



SAFETY EDGE DETAIL

K 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

M Milling Asphalt, 1 1/2 IN.

O Compacted Aggregate, No. 53

S 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS
PHASE 2

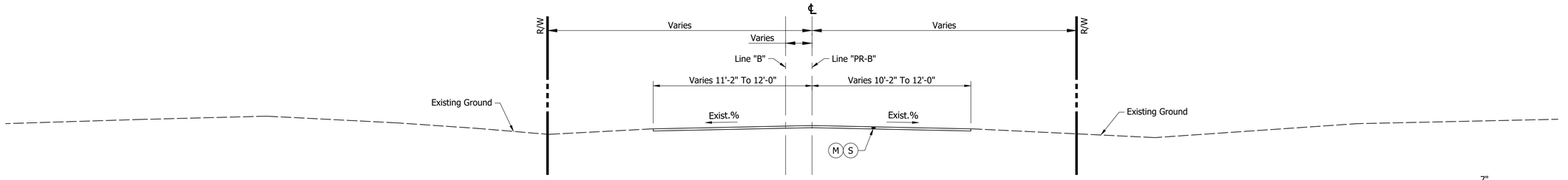
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DESIGNED: JRM APPRV'D: BSS
DATE: 01/30/2024
HORIZ. SCALE: 1/4" = 1'-0"
VERT. SCALE: N/A
PROJECT NUMBER 22005

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
Barbara Swihart Stutzman
Lochmueller Group, Inc.

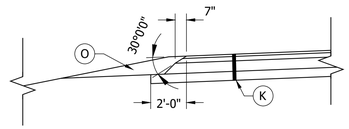
SHEET 5
OF 101

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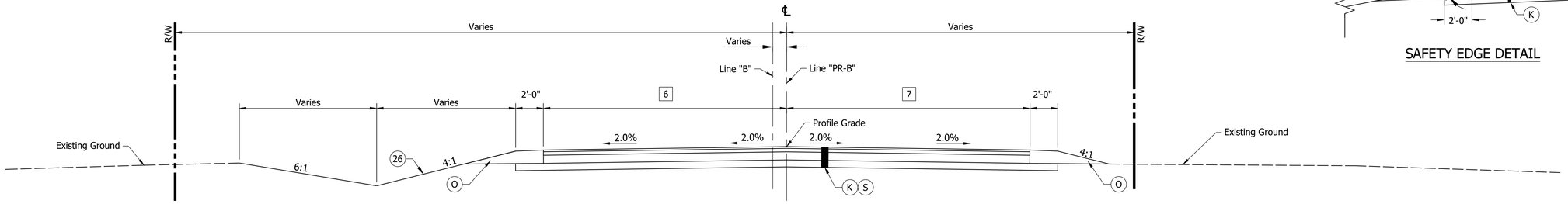


TYPICAL INCIDENTAL SECTION

Sta. 206+45.00 Line "PR-B" To Sta. 206+95.00 Line "PR-B"



SAFETY EDGE DETAIL

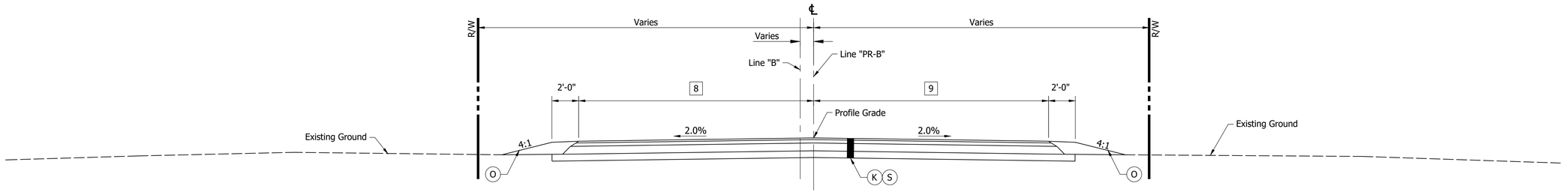


TYPICAL FULL DEPTH SECTION

Sta. 209+30.00 Line "PR-B" To Sta. 211+71.74 Line "PR-B"

6 Varies 15-2" @ Sta. 209+30.00 Line "PR-B" to 17'-6" @ Sta. 211+05.71 Line "PR-B"
Varies 17-6" @ Sta. 211+05.71 Line "PR-B" to 21'-6" @ Sta. 211+65.71 Line "PR-B"

7 Varies 16'-3" @ Sta. 209+30.00 Line "PR-B" To 17'-6" @ Sta. 210+00.00 Line "PR-B"
17'-6" Sta. 210+00.00 Line "PR-B" to Sta. 211+11.74 Line PR-B"
Varies 17-6" @ Sta. 211+11.74 Line "PR-B" to 21'-6" @ Sta. 211+71.74 Line "PR-B"

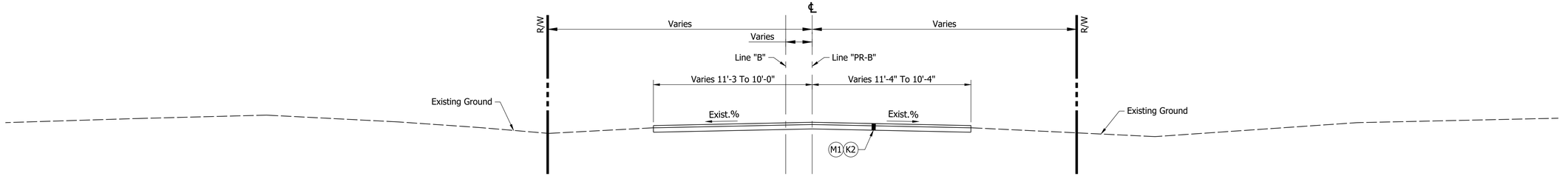


TYPICAL FULL DEPTH SECTION

Sta. 213+86.58 Line "PR-B" To Sta. 218+30.00 Line "PR-B"

8 Varies 21'-5" @ Sta. 213+21.68 Line "PR-B" to 17'-6" @ Sta. 213+80.57 Line "PR-B"
17'-6" Sta. 213+80.57 Line "PR-B" To Sta. 215+25.00 Line "PR-B"
Varies 17'-6" @ Sta. 215+25.00 Line "PR-B" To 11'-2" @ Sta. 218+30.00 Line "PR-B"

9 Varies 21'-5" @ Sta. 213+26.58 Line "PR-B" to 17'-6" @ Sta. 213+86.58 Line "PR-B"
17'-6" Sta. 213+86.58 Line "PR-B" To Sta. 214+25.00 Line "PR-B"
Varies 17'-6" @ Sta. 214+25.00 Line "PR-B" To 11'-3" @ Sta. 218+30.00 Line "PR-B"



TYPICAL INCIDENTAL SECTION

Sta. 218+30.00 Line "PR-B" To Sta. 226+30.00 Line "PR-B"

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(K2) 165 LB/SYS HMA Surface Type C, 9.5 mm on 495 LB/SYS HMA Base Type C, 25.0 mm

(M) Milling Asphalt, 1 1/2 IN.

(M1) Milling Asphalt, 4 IN.

(O) Compacted Aggregate, No. 53

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(26) Mulched Seeding

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

TYPICAL SECTIONS PHASE 2

DRAWN: DJG	CHK'D: BJS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1/4" = 1'-0"			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

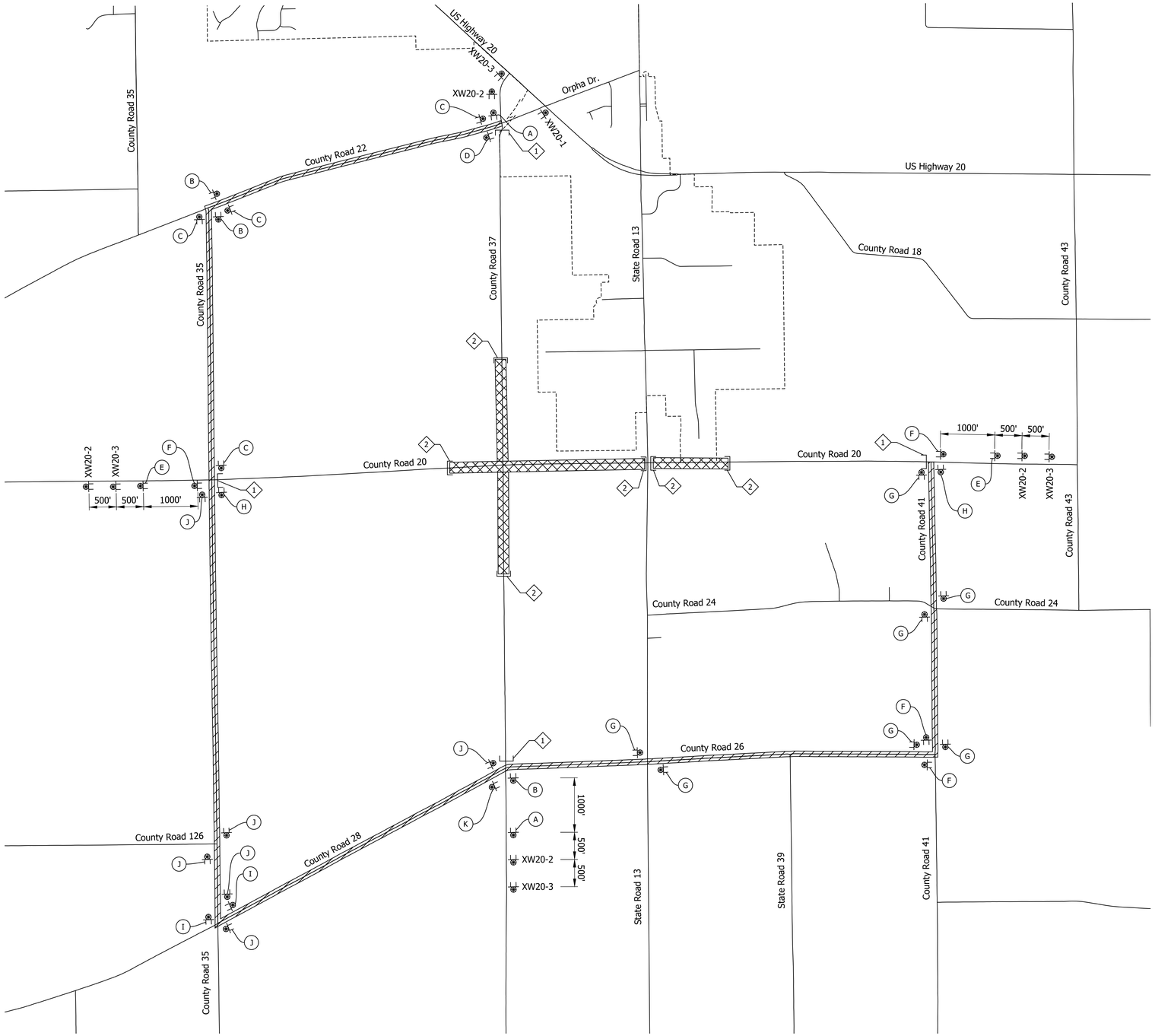
BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 6
OF 101

File Name: X:\Projects\Planning\11130\ROADWAY\01-DGN\Typical Sections Ph 2.dwg - Typical Section (8)
Modified By: March 5, 2024 8:48:32 PM | BillieTaylor
Plotted By: March 5, 2024 8:48:57 PM | Barbara Stutzman - Autodesk



CONSTRUCTION SIGN SCHEDULE				
	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY
R11-2	"ROAD CLOSED" SIGN	48 x 30	(1)	6
R11-3A	"ROAD CLOSED XX MILES AHEAD" SIGN	60 x 30	(1)	4
XM4-10 (L or R)	"DETOUR" SIGN	48 x 18	(1)	4
XW20-1	"ROAD CONSTRUCTION AHEAD" SIGN	48 x 48	A	1
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	4
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	4
XG20-2	"END CONSTRUCTION" SIGN	36 x 18	B	0
			TOTAL TYPE "A" SIGNS	9
			TOTAL TYPE "B" SIGNS	0

Detour Route Marker Assemblies: 34 Req'd
Road Closure Sign Assemblies: 10 Req'd
Type III-A Barricades: 144 Lft.
Type III-B Barricades: 48 Lft.

(1) Included with road closure sign assembly.

LEGEND



XW20-1 | XW20-2 | XW20-3 | XW20-3 | XW20-3



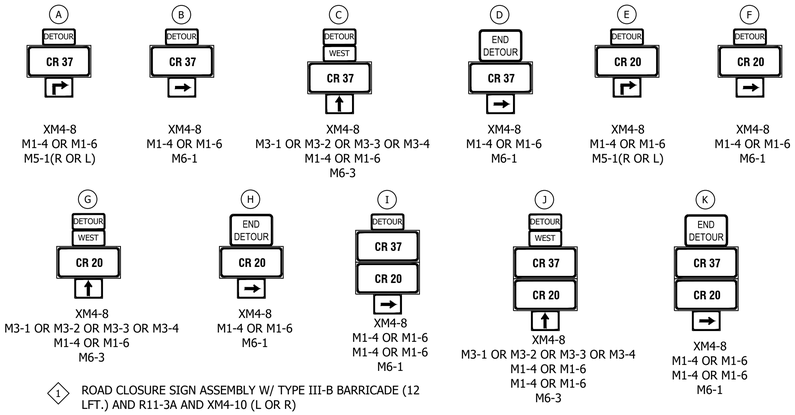
XM4-10 (L or R)



R11-2



R11-3A



1 ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-B BARRICADE (12 LFT.) AND R11-3A AND XM4-10 (L OR R)

2 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. Drwg. 801-TCDT-01 for sign spacing requirements and additional notes.
3. See INDOT Std. Drwg. 801-TCLG-01 for standard notes.
4. Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

MAINTENANCE OF TRAFFIC
DETOUR ROUTE

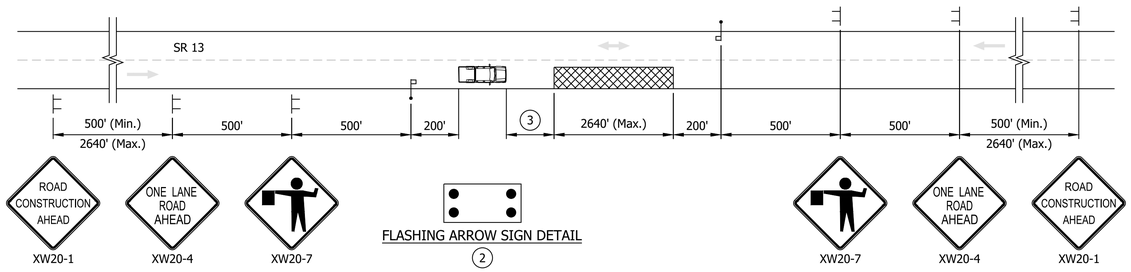
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 1000'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
Barbara Swihart Stutzman
Lochmueller Group, Inc.

SHEET 7
OF 101

File Name: X:\Projects\Projects\22005\CAD\Civil\MOT\22-22005 MOT Detour.dwg - MOT - CR 20 and CR 37
Modified By: Jeremy Gehrlein 1/30/2024 2:58:20 PM (GMT-5)
Saved By: Jeremy Gehrlein 1/30/2024 2:58:20 PM (GMT-5)
Plotted By: Jeremy Gehrlein
Plotted On: 1/30/2024 3:00:00 PM (GMT-5)



MAINTENANCE OF TRAFFIC - FLAGGER DETAIL

Scale: N.T.S.

NOTES:

1. Additional signs may be required for the moving operations so as to maintain proper spacing.

(2) Flashing arrow sign shall be in caution mode.

(3) Shadow vehicle roll ahead distance shall be as recommended by the truck mounted attenuator manufacturer.

LEGEND:

- Flagger
- Work Area
- Construction Sign and Supports
- Direction of Traffic
- Shadow vehicle with truck-mounted attenuator, type B flashing arrow sign, and strobe lights.

FLAGGING OPERATION CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY
XW20-1	"ROAD CONSTRUCTION AHEAD" Sign	48 x 48	A	2
XW20-4	"ONE LANE ROAD AHEAD" Sign	48 x 48	A	2
XW20-7	"FLAGGER" Sign	48 x 48	A	2
			TOTAL TYPE "A" SIGNS	6

FLAGGING OPERATION NOTE

The reason for this operation is to avoid closing both lanes of traffic on SR 13 for a short period of time and adding an extended detour. This operation must be done in conjuction with the closure of CR 20 to ensure the safety of motorists in the area as well as anyone working on the construction site. In this phase, loops for the signal will be installed along SR 13. Beginning approximately 1700 ft. away from the construction zone, advanced signage will be used to alert traffic of the operation ahead. Approximately 200 ft. away from the construction zone, a flagger will direct traffic. Following the flagger will be a shadow vehicle protecting the operation. Following the construction area, an additional flagger will be direct traffic in the opposite direction. The flaggers will coordinate throughout the operation to ensure collisions will not take place. Following the construction area and before the second flagger, traffic will be shifted back to their original lane configuration.

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

MAINTENANCE OF TRAFFIC
FLAGGING DETAIL

DRAWN: JRM	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 30'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
Barbara Swihart Stutzman
Lochmueller Group, Inc.

SHEET 8
OF 101

File Name: X:\Projects\Middlebury\IN-20\ROADWAY\01-SHEET\Detail.dwg - MOT - Flagging Detail
Modified By: Jarrett T. Clark 2:36:37 PM 2/20/2024
Plotted By: Jarrett T. Clark 9:56 AM Monday, April

105+00 106+00 107+00 108+00 109+00 110+00 111+00

N

HARLEY O & WANDA O
BONTRAGER
(20-08-21-476-007.000-034)
D.R. 0099-31803
13099 COUNTY ROAD 20

SEC. 21, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

GARY D & JENNIFER D
CHIZUM
(20-08-21-476-011.000-034)

App. P. L.

App. P. L.

App. Exist. R/W

Do Not Disturb

BEGIN INCIDENTAL CONSTRUCTION
P.O.T. 107+12.00 "PR-A"

+℄ (72.65)
EX R/W (0.00')

Water Main (Constructed by Others)

N86°43'29"E

P.O.T. 106+00.00 "PR-A" =
O.P.O.T. 20+59.82, 0.89' RT "A"

P.I. 106+76.15 "PR-A" =
O.P.O.T. 21+35.97, 1.01' RT "A"

9.4'

10.8'

+00.00

10'

10'

10'

10'

CR 20

N 87°13'13" E
LINE 'PR-A'

Section Line

N 86°38'22" E
LINE 'A'

Const. Limits

Const. Limits

Const. Limits

+℄ (20.00)
EX R/W (0.00')

+℄ (67.98)
EX R/W (0.00')

BEGIN PROJECT
P.O.T. 107+62.00 "PR-A"

20 21 22 23 24 25

(11) (M) (K)

(Conc.) (Asph.) (Stone)

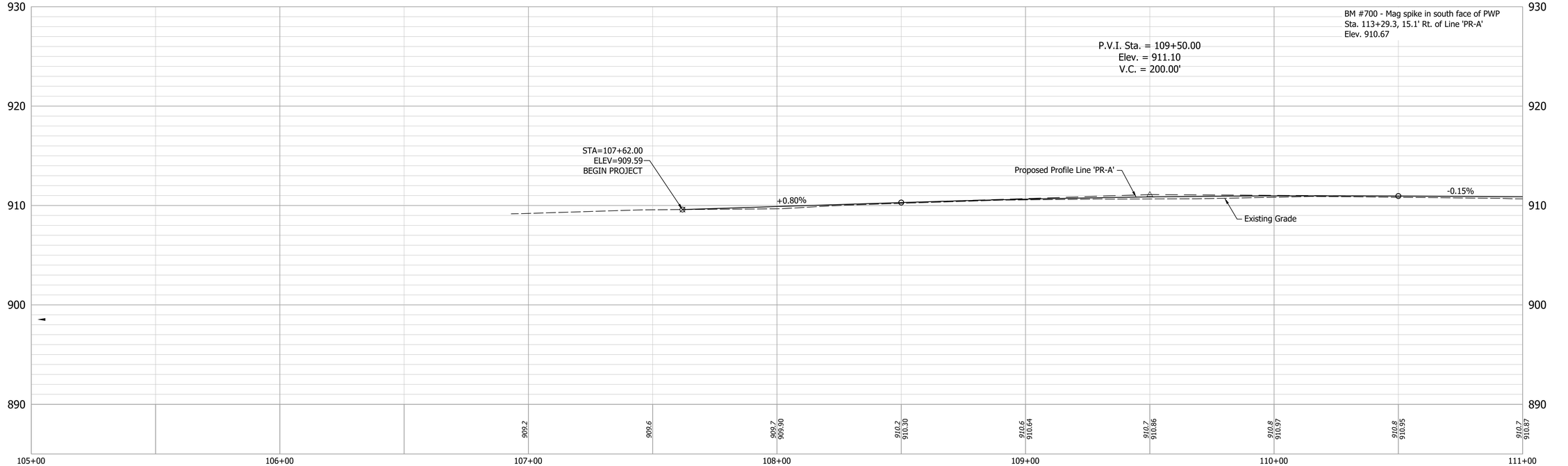
UGFO UGT OHE G W

CURVE DATA
P.I. = 106+76.15 "PR-A"
Delta = 0°29'43", Rt.
R = 5546.92'
T = 23.98'
L = 47.96'
E = 0.05'

DONALD JAY & DEBRA KAY
KAUFFMAN
(20-08-28-200-003.000-034)

SEC. 28, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

Note: All R/W described off Line "A" unless otherwise noted.



(11) Sawcut

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(M) Milling Asphalt, 1 1/2 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 105+00 TO STA. 111+00

DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			

NO.	REVISION	BY	DATE

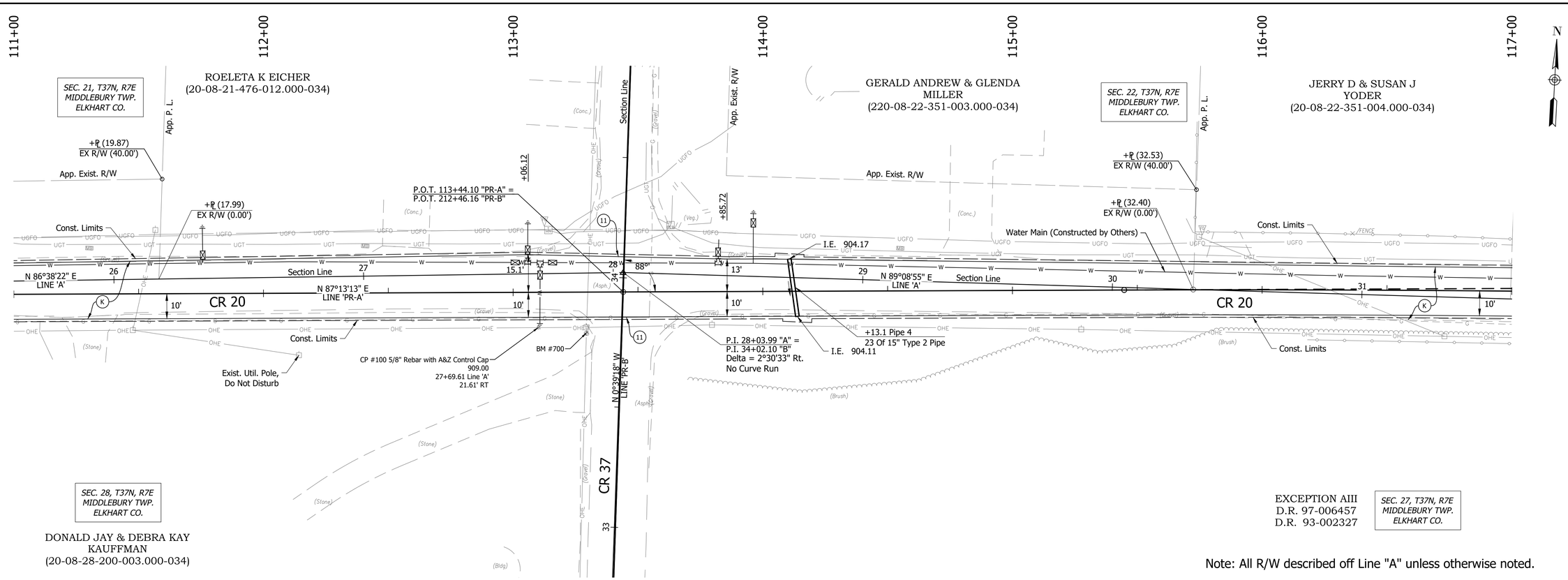
BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

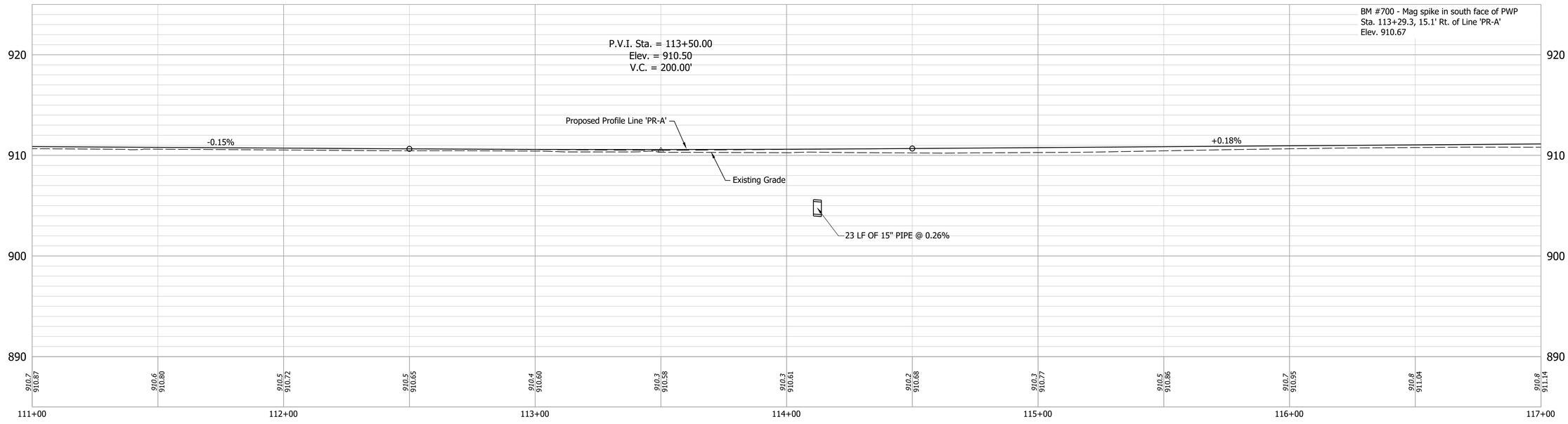
Barbara Swihart Stutsman

Lochmueller Group, Inc.

SHEET 9
OF 101

File Name: X:\Projects\Projects\11-INDOT\DES\DGN\Sht\11-Sht04.dgn - 11-Sht0_ELM.pltMod: 1/31/2024 3:50:01 PM - jrmilleyPlotted By: jrmilley





(11) Sawcut

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 111+00 TO STA. 117+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

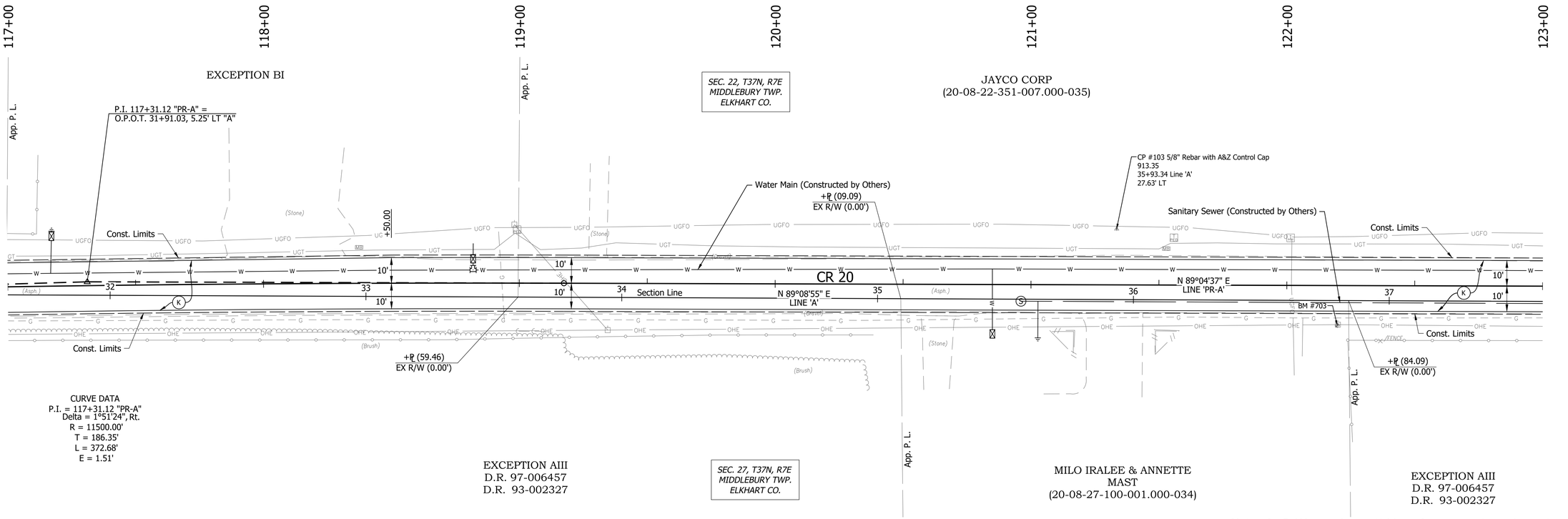
NO.	REVISION	BY	DATE

DEBRA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

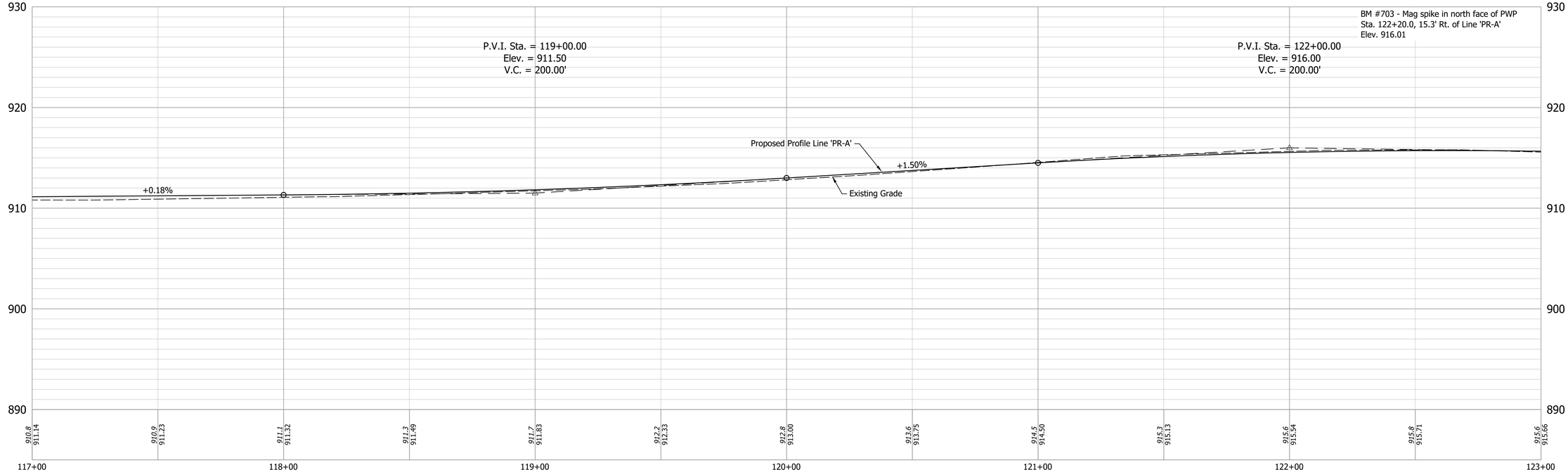
Lochmueller Group, Inc.

SHEET 10
OF 101

File Name: X:\Projects\Plan\2022\11\22005\DGN\11-Add Info\ PREP CR 20.dwg - 11-Add_Info_CR 20 Prep (2)
Modified By: Mark 1: 2024.1.30 01:27 PM JJ (Holiday)
Plotted By: Mark 1: 2024.1.30 01:27 PM JJ (Holiday)



Note: All R/W described off Line "A" unless otherwise noted.



(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 117+00 TO STA. 123+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

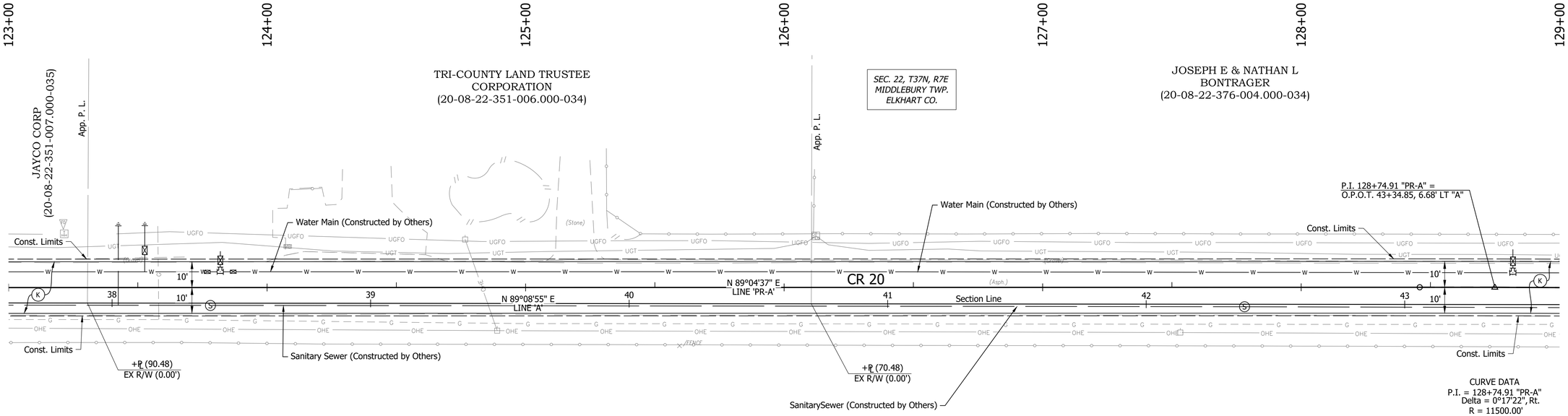
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 11
OF 101

File Name: X:\Projects\Planning\37-01-0042\Design\3-Plan Prof-XS\E-Geop - 11-1646_ES-01.PRP (3)
Modified By: Mar 01, 2024 3:50:22 PM / jmelsby
Plotted By: Mar 01, 2024 3:51:00 PM / jmelsby



Note: All R/W described off Line"A" unless otherwise noted.

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 123+00 TO STA. 129+00

DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			

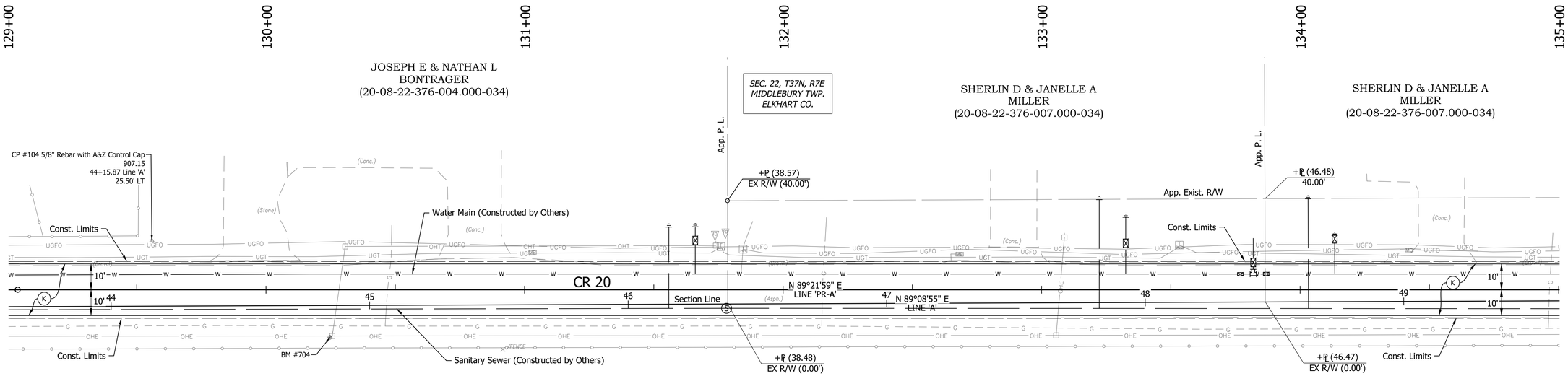
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 12
OF 101

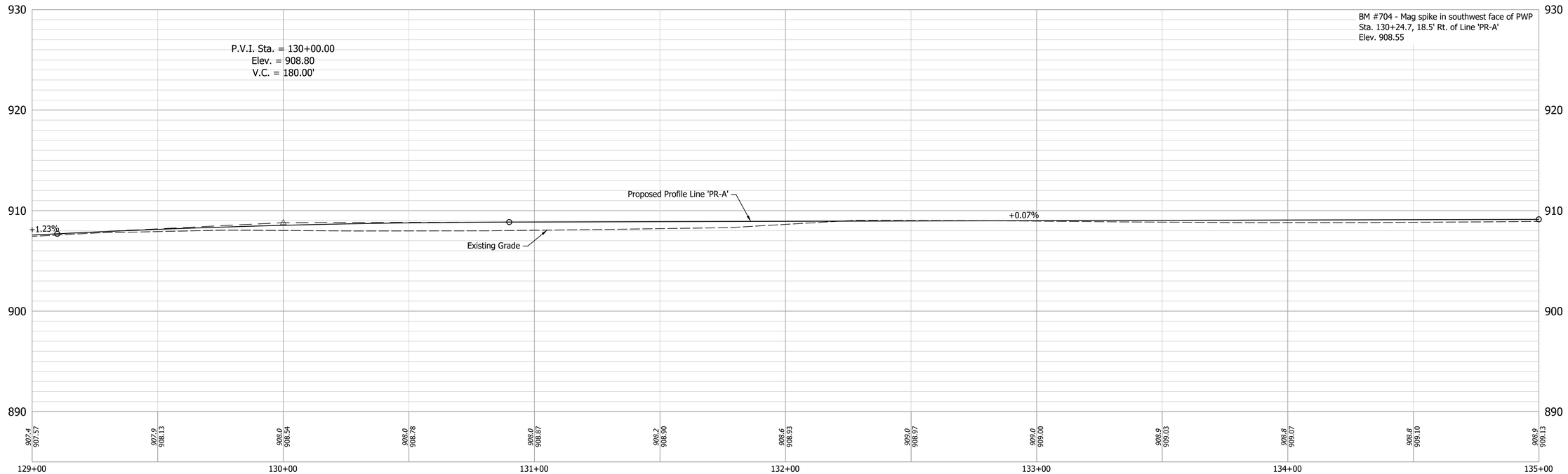
File Name: X:\Projects\Planning\11-SAG\Graphics\11-SAG Prin PSH CR 20.dwg - 11-SAG_CR 20 PSH (4)
Modified By: March 1, 2024 1:50:20 PM // jmosley
Plotted By: March 1, 2024 1:50:21 PM // jmosley



EXCEPTION AIII
D.R. 97-006457
D.R. 93-002327

SEC. 27, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

Note: All R/W described off Line "A" unless otherwise noted.



(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 129+00 TO STA. 135+00

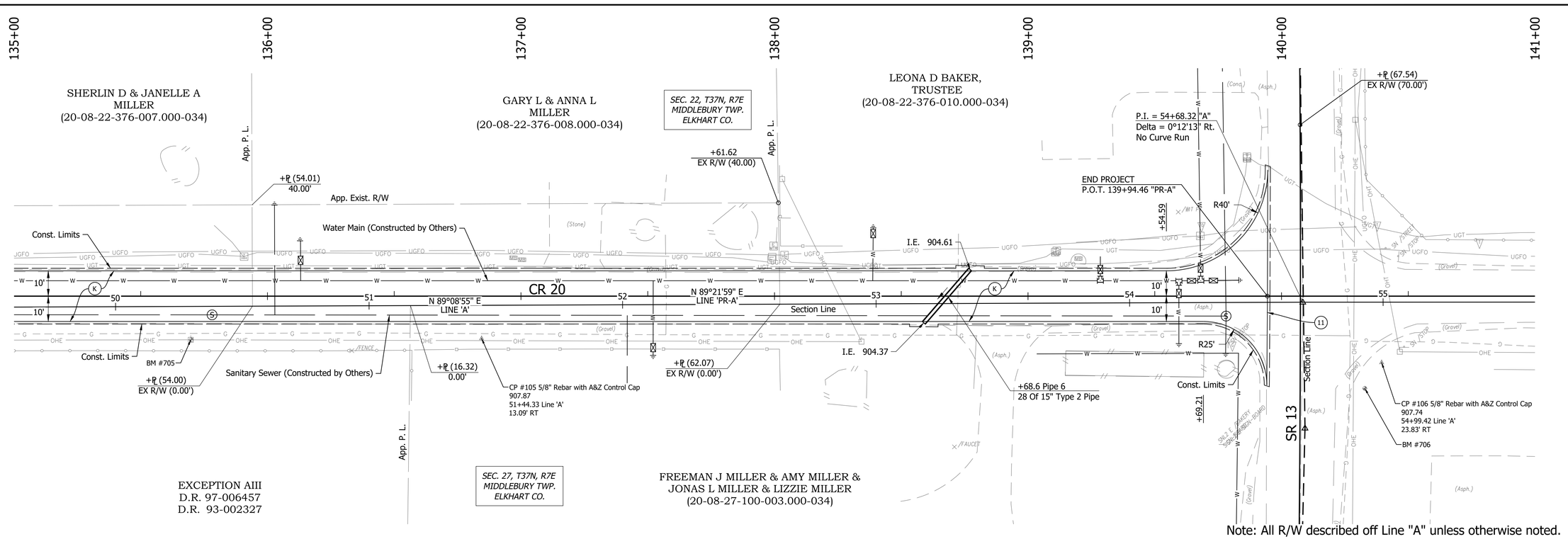
DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			

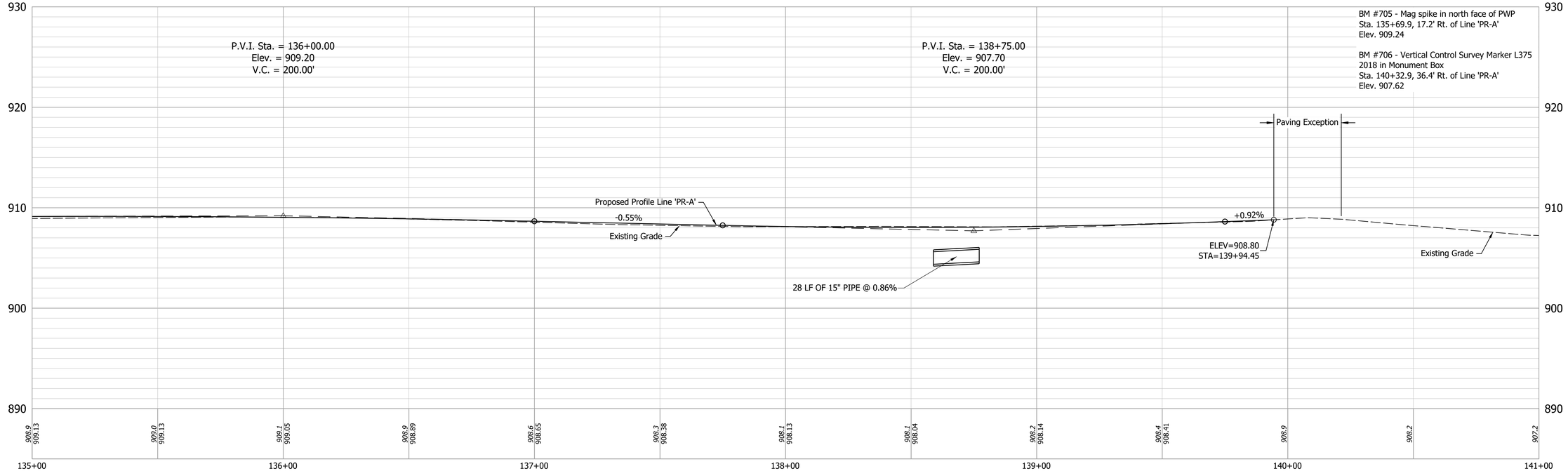
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER
Barbara Swihart Stutzman
Lochmueller Group, Inc.

SHEET 13
OF 101

File Name: X:\Projects\Planning\37-01-240\CAD\PDP\37-01-240-Plan Prof-CR 20 (Bridge - 131+34)(L_CR 20 Prof (P)
Modified By: Mar/01 1:33:52 PM
Plotted By: 3/1/2024 1:33:52 PM





(11) Sawcut

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 1
STA. 135+00 TO STA. 141+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 14
OF 101

File Name: X:\Projects\Projects\37-01-24\ROADWAY\1-Sheet Files\14-PLAN & PROFILE - PHASE 1.dwg
Modified By: Mar 01, 2024 - 3:52:22 PM
Plotted By: Mar 01, 2024 8:00 AM

HARLEY O & WANDA O
BONTRAGER
(20-08-21-476-007.000-034)
D.R. 0099-31803
13099 COUNTY ROAD 20

*SEC. 21, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.*

GARY D & JENNIFER D
CHIZUM
(20-08-21-476-011.000-034)

105+00 106+00 107+00 108+00 109+00 110+00 111+00

N

App. P. L.

BEGIN INCIDENTAL CONSTRUCTION
P.O.T. 107+12.00 "PR-A"

+℄ (72.65)
EX R/W (0.00')

20

N86°43'29"E

P.O.T. 106+00.00 "PR-A" =
O.P.O.T. 20+59.82, 0.89' RT "A"

21

P.I. 106+76.15 "PR-A" =
O.P.O.T. 21+35.97, 1.01' RT "A"

22

+20.00
20.00'

+20.00
EX R/W

Do Not Disturb

+60.04
20.00'

R/W

2'

Const. Limits

+℄ (20.00)
EX R/W (0.00')

BEGIN PROJECT
P.O.T. 107+62.00 "PR-A"

2'

Const. Limits

R/W

+20.00
30.00'

CR 20

23

+℄ (69.87)
EX R/W (40.00')

App. P. L.

+℄ (68.92)
20.00'

R/W

+℄ (67.98)
EX R/W (0.00')

N 87°13'13" E
LINE 'PR-A'

24

Section Line

N 86°38'22" E
LINE 'A'

25

+55.02 Class II Dr.
W = 18'

App. Exist. R/W

Const. Limits

+90.00
30.00'

+90.00
43.00'

Temp. R/W For Drives

+50.34 Class II Dr.
W = 17'

+30.00
30.00'

Const. Limits

+30.00
43.00'

+10.00
30.00'

+10.00
35.00'

7.5'

+67.70

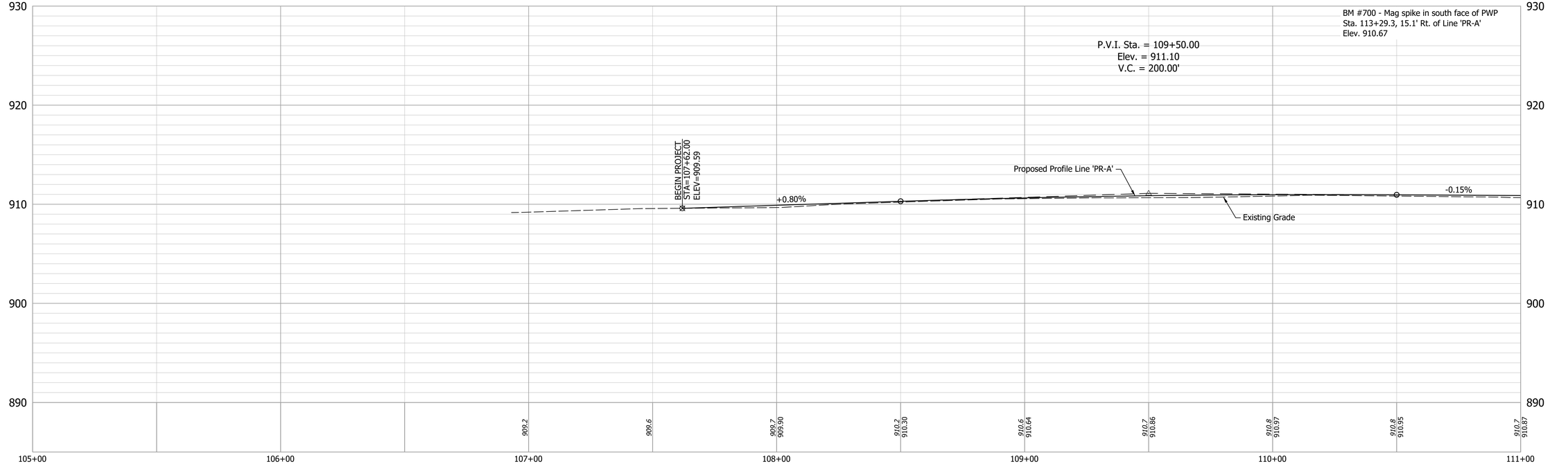
Temp. R/W For Grading

CURVE DATA
P.I. = 106+76.15 "PR-A"
Delta = 0°29'43", Rt.
R = 5546.92'
T = 23.98'
L = 47.96'
E = 0.05'

DONALD JAY & DEBRA KAY
KAUFFMAN
(20-08-28-200-003.000-034)

*SEC. 28, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.*

Note: All R/W described off Line "A" unless otherwise noted.



(C) PCCP for Approaches, 6 IN., on
Dense Graded Subbase, 6 IN., on
Subgrade Treatment, Type II

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

File Name: X:\Projects\Projects\2022\12\DJG\Cad\PWP\12-3646-PWP-PLP-20-Proj - 12-3646_CR 20 PWP (1)
Modified By: Kevin T. Stitt at 3:58:05 PM 1/30/2024
Plotted By: Kevin T. Stitt at 4:02:00 PM 1/30/2024 by Kevin T. Stitt

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 105+00 TO STA. 111+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

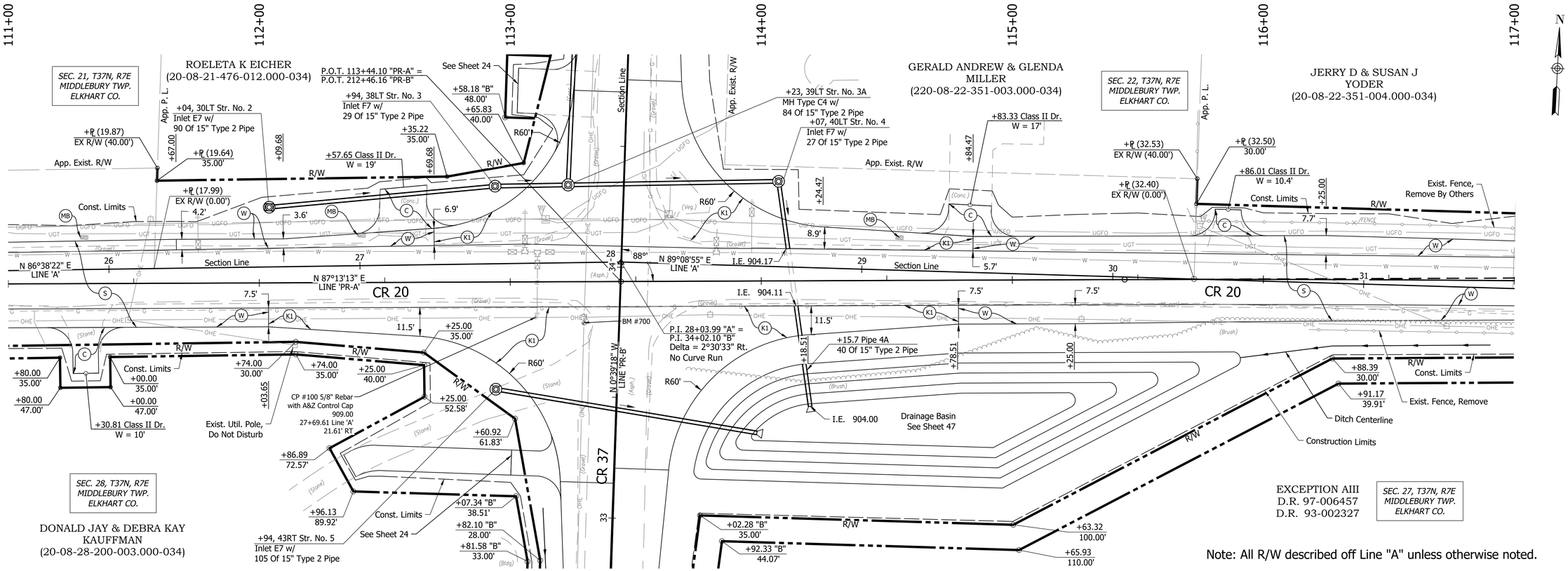
NO.	REVISION	BY	DATE

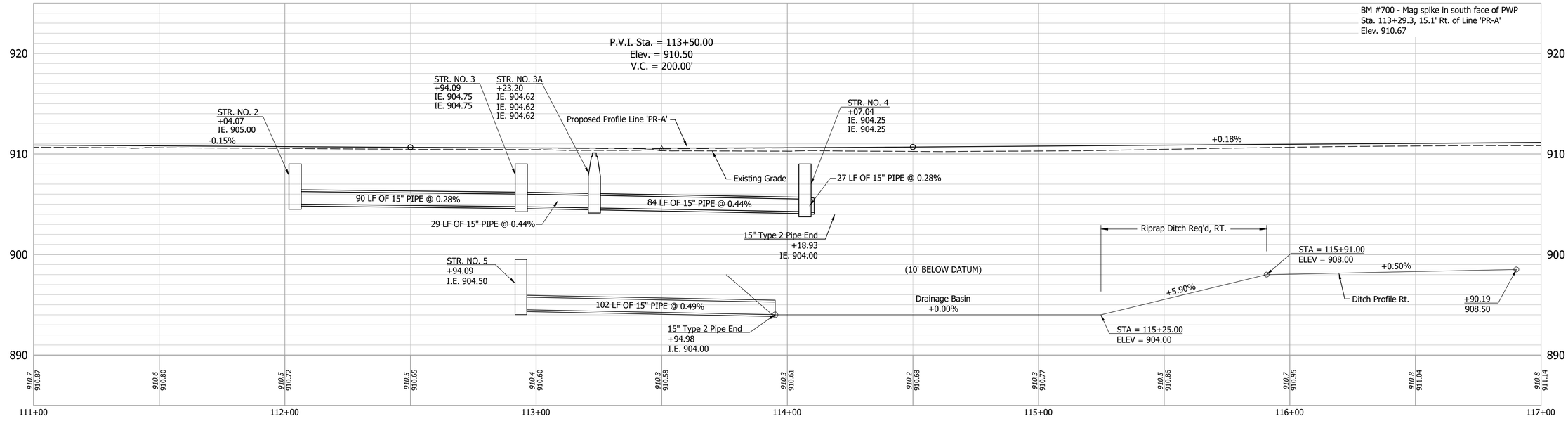
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 15
OF 101





(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening: 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 111+00 TO STA. 117+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

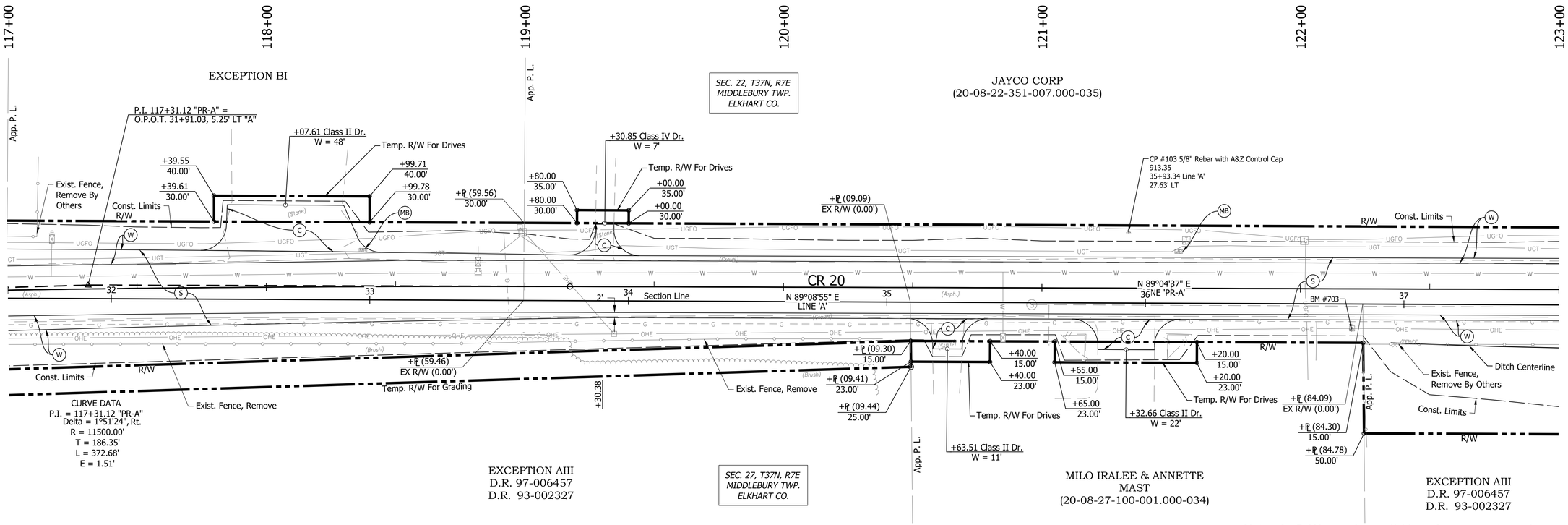
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTSMAN
REGISTERED No. PE10911254 STATE OF INDIANA
PROFESSIONAL ENGINEER

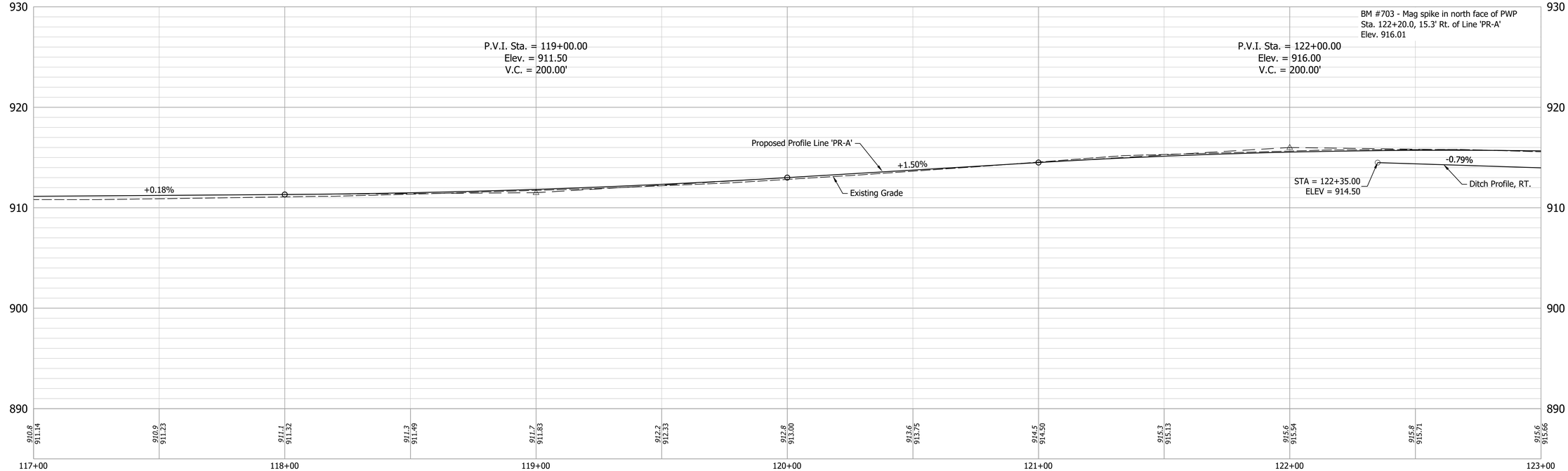
Lochmueller Group, Inc.

SHEET 16
OF 101

File Name: X:\Projects\Middlebury\2022\12\MDCADD\PROS\Sheets\PR-A.dwg
Plotted By: Jason Mast
Plotted On: March 7, 2024 4:45:24 PM
Saved By: Jason Mast
Layout Name: Sheet 16



Note: All R/W described off Line "A" unless otherwise noted.



(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

File Name: X:\Projects\Projects\11\LMS\Civil\PWP\17-SMS_ST-01.PWP (3)
Modified By: March 7, 2024 3:48:33 PM / jmobley
Plotted By: March 7, 2024 3:48:36 PM / jmobley

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 117+00 TO STA. 123+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 17
OF 101

123+00 124+00 125+00 126+00 127+00 128+00 129+00

N

JAYCO CORP
(20-08-22-351-007.000-035)

App. P. L.

TRI-COUNTY LAND TRUSTEE CORPORATION
(20-08-22-351-006.000-034)

SEC. 22, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

JOSEPH E & NATHAN L BONTRAGER
(20-08-22-376-004.000-034)

Temp. R/W For Drives
+38.66 Class II Dr.
W = 20'
Remove Asphalt/Concrete Parking and Hitching Post
+55.00
50.00'
+55.00
30.00'
+30.00
50.00'
+70.00
30.00'
+70.00
40.00'
+19.09 Class II Dr.
W = 14'
Temp. R/W For Drives
+90.00
40.00'
+30.00
30.00'
+90.00
30.00'
Exist. Fence, Remove By Others
Const. Limits
+℄ (90.61)
30.00'
R/W
+℄ (70.53)
30.00'
Exist. Fence, Remove By Others
P.I. 128+74.91 "PR-A" =
O.P.O.T. 43+34.85, 6.68' LT "A"
+45.86
R/W
Const. Limits
CR 20
(Asph.)
N 89°04'37" E
LINE 'PR-A'
N 89°08'55" E
LINE 'A'
Section Line
38 39 40 41 42 43
2'
2'
+℄ (90.48)
EX R/W (0.00')
Ditch Centerline
+℄ (70.48)
EX R/W (0.00')
Exist. Fence, Remove By Others
+62.00
Const. Limits
Const. Limits
R/W
+60.00
50.00'
R/W
CURVE DATA
P.I. = 128+74.91 "PR-A"
Delta = 0°17'22", Rt.
R = 11500.00'
T = 29.04'
L = 58.08'
E = 0.04'

EXCEPTION AIII
D.R. 97-006457
D.R. 93-002327

SEC. 27, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

Note: All R/W described off Line"A" unless otherwise noted.

930 920 910 900 890

P.V.I. Sta. = 124+40.00
Elev. = 915.19
V.C. = 200.00'

P.V.I. Sta. = 127+40.00
Elev. = 905.60
V.C. = 300.00'

BM #703 - Mag spike in north face of PWP
Sta. 122+20.0, 15.3' Rt. of Line 'PR-A'
Elev. 916.01

BM #704 - Mag spike in southwest face of PWP
Sta. 130+24.7, 18.5' Rt. of Line 'PR-A'
Elev. 908.55

-0.34%
-0.79%
Existing Grade
STA = 124+00.00
ELEV = 913.18
-3.20%
Proposed Profile Line 'PR-A'
-2.72%
Ditch Profile, RT
+1.23%
+2.02%
+0.00%
STA = 127+25.00
ELEV = 904.34
STA = 128+23.00
ELEV = 904.34
Sodded Ditch Req'd, RT.
Sodded Ditch Req'd, RT.

915.6 915.66 | 915.3 915.48 | 915.1 915.07 | 914.1 914.29 | 912.7 913.16 | 911.1 911.67 | 909.6 910.08 | 908.5 908.74 | 907.6 907.77 | 907.0 907.17 | 906.7 906.94 | 906.9 907.07 | 907.4 907.57

123+00 124+00 125+00 126+00 127+00 128+00 129+00

(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

File Name: X:\Projects\Planning\22005\10-ENGR\DGN\18 Middl Prof PWP DR 20 dwg - 11+ SMS_25 24 PWP-N
Modified By: March 7, 2024 4:40:24 PM | BSchlicher
Plotted By: March 7, 2024 4:42:24 PM | Marcel Schlicher, Bentley

MIDDLEBURY	INDIANA	DRAWN: DJG	CHK'D: BSS
MIDDLEBURY INTERSECTION IMPROVEMENTS		DESIGNED: JRM	APPRV'D: BSS
		DATE: 01/30/2024	
PLAN & PROFILE - LINE "PR-A" - PHASE 2 STA. 123+00 TO STA. 129+00		HORIZ. SCALE: 1" = 20'	
		VERT. SCALE: 1" = 5'	
		PROJECT NUMBER 22005	

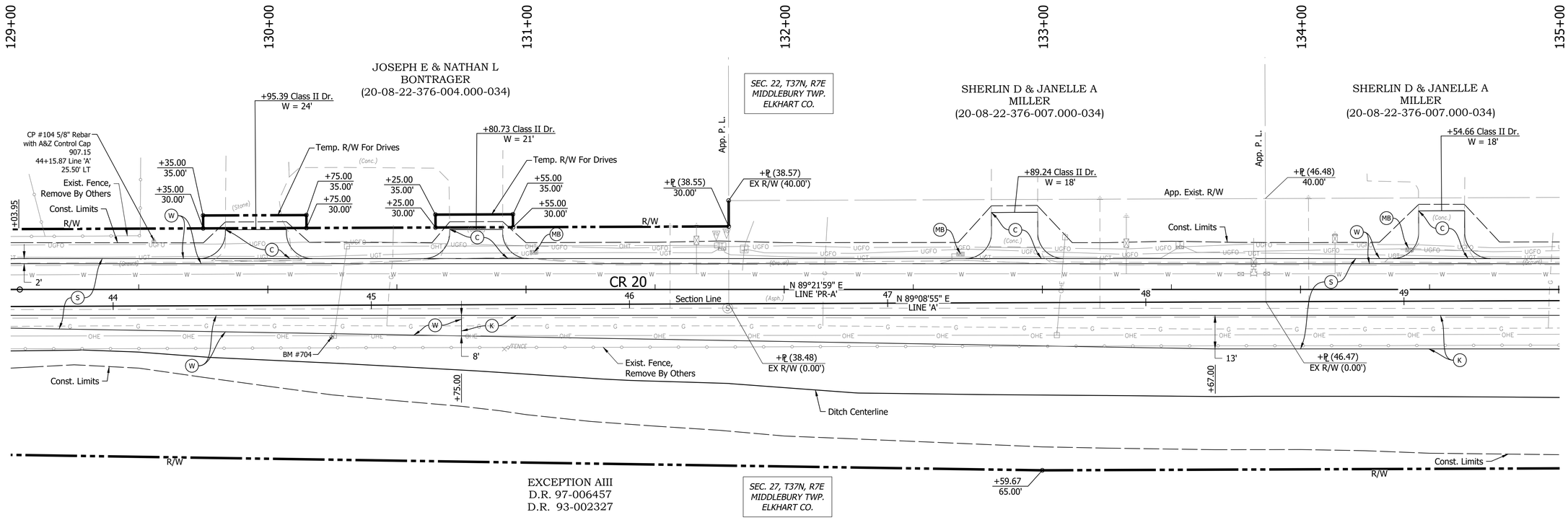
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

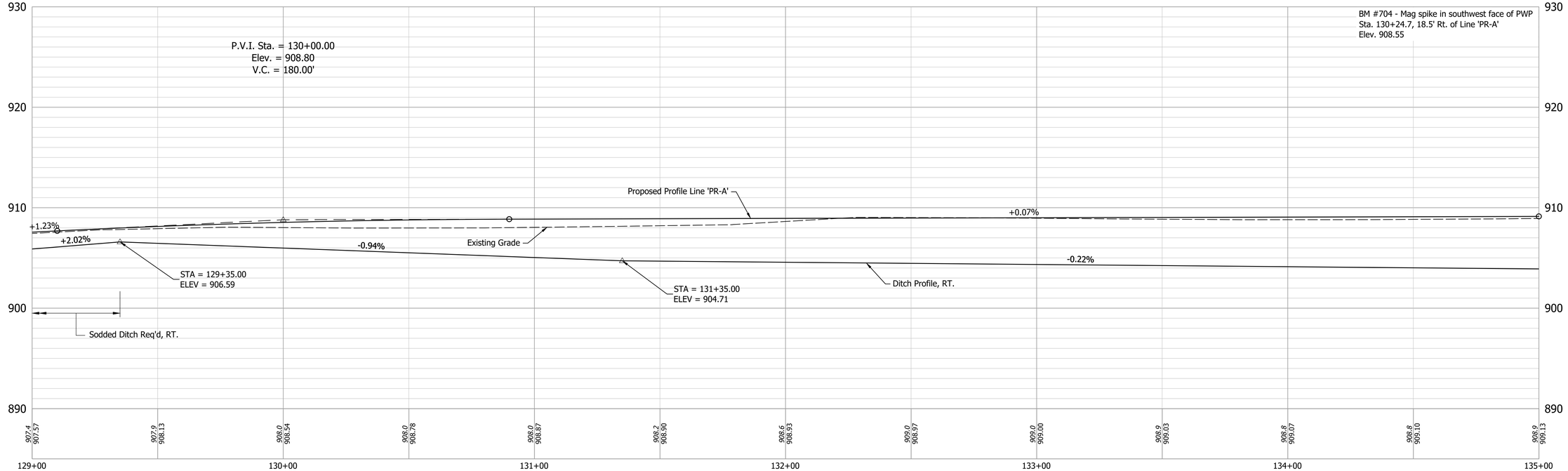
Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 18
OF 101



Note: All R/W described off Line "A" unless otherwise noted.



(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening: 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

File Name: X:\Projects\Projects\111 SAG\CAD\PDP\21-3640 Proj Plot\21-3640_ES Proj Plot (R).dwg
Modified By: March 7, 2024 3:48:22 PM jmolloy
Plotted By: March 7, 2024 3:49:02 PM jmolloy

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 129+00 TO STA. 135+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

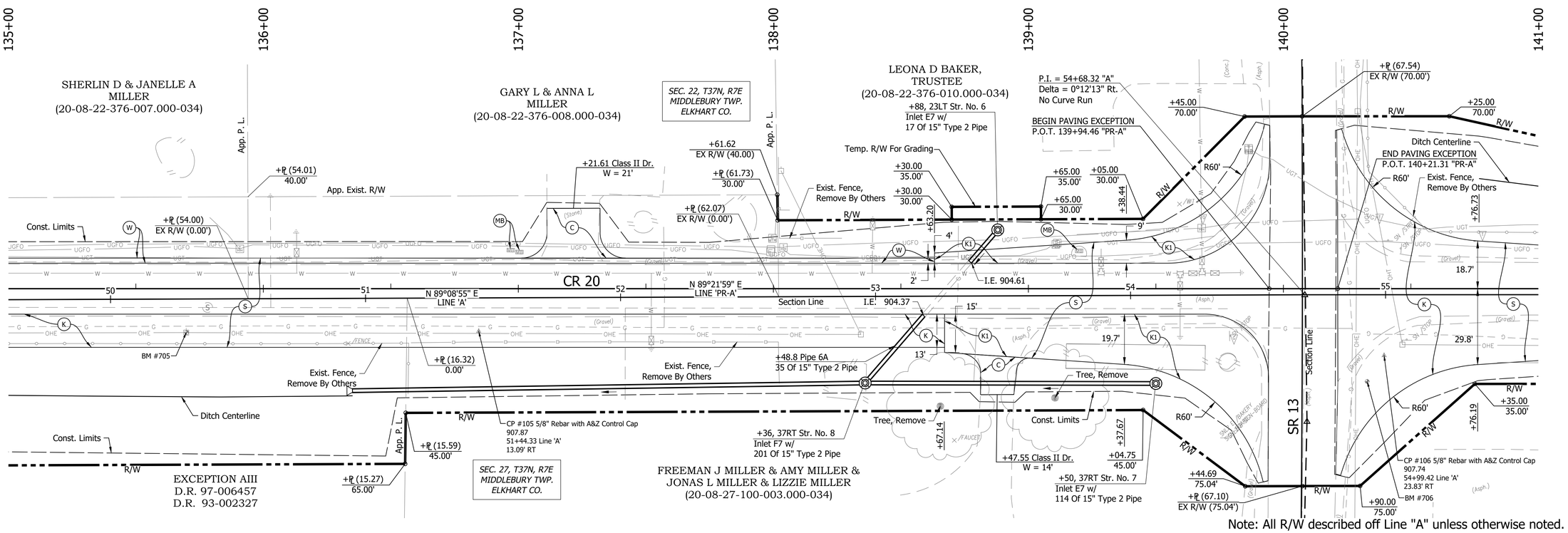
NO.	REVISION	BY	DATE

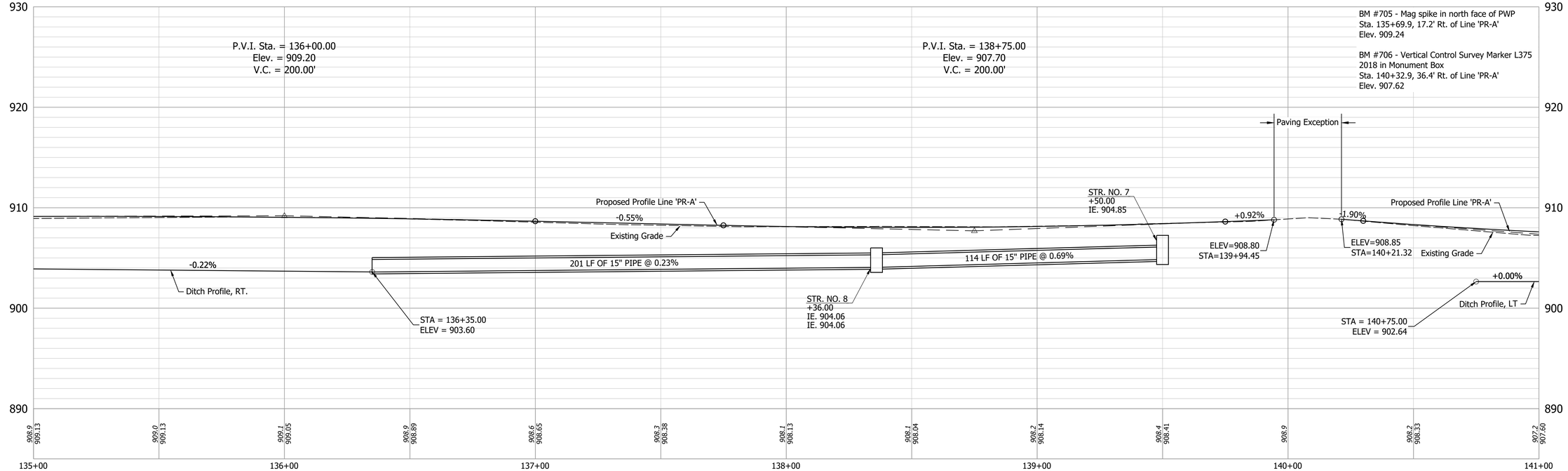
BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutsman

Lochmueller Group, Inc.

SHEET 19
OF 101





(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(K1) HMA For Approaches: 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

(W) HMA For Widening: 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 135+00 TO STA. 141+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 20
OF 101

File Name: X:\Projects\Planning\11-SAG\Corridor\11-SAG Proj Plat\11-SAG_ES-01.dwg - 11-SAG_ES-01 Mod By: March 1, 2024 3:48:58 PM / jmorley Plotted By: March 1, 2024 3:52:05 PM / jmorley

930

141+00 142+00 143+00 144+00 145+00 146+00 147+00

N

LINFORD D & ELAINE MARTIN
(20-08-22-451-004.000-034)

SEC. 22, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

LELLEN PROPERTIES LLC
(20-08-22-451-013.000-035)

+15.00
50.00'
Const. Limits
R/W
+46.98
Ditch Centerline
2.0 TONS of Riprap, Revetment
27.0 SYS of Geotextile for Riprap, Type 1B
Exist. Fence,
Remove By Others
4'
12'
56
57
58
59
60
61
N 89°21'59" E
LINE 'PR-A'
Section Line
N 89°21'08" E
LINE 'A'
CR 20
N 89°42'43" E
26.5'
23'
+24.98
+47.70
+48.28 Class IV Dr.
W = 24'
Exist. Light Pole
& Foundation,
Relocate by Others
+90.00
35.00'
+90.00
40.00'
+45.11
Exist. Light Pole & Foundation,
Do Not Disturb
+46, 34RT Str. No. 11
Inlet F7 w/
63 Of 15" Type 2 Pipe
+35.00
50.00'
+35.00
25.00'
P.I. 144+45.00 "PR-A" =
O.P.O.T. 59+04.93, 2.26' LT "A"
Delta = 0°20'44" Rt.
No Curve Run
+℄ (16.32)
EX R/W (0.00')
+45.06
Exist. Fence,
Remove By Others
+04.63 Class IV Dr.
W = 23'
+36, 31RT Str. No. 10
Inlet F7 w/
90 Of 15" Type 2 Pipe
+℄ (15.98)
35.00'
App. P. L.
Temp. R/W For Grading
+62.55 Class II Dr.
W = 16'
Temp. R/W For Drives
+10.00
30.00'
+10.00
25.00'
+35.00
30.00'
+35.00
25.00'
Exist. Landscaping,
Do Not Disturb
+℄ (54.32)
EX R/W (0.00')
+℄ (71.32)
EX R/W (0.00')
+℄ (70.73)
EX R/W (40.00')
App. Exist. R/W
+℄ (70.95)
25.00'
Const. Limits
+77.00
+℄ (53.80)
40.00'
+℄ (53.87)
35.00'
Exist. Fence,
Remove By Others
Ditch Centerline
Const. Limits

GRINER MENNONITE
CHURCH
(20-08-27-201-005.000-034)

SEC. 27, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

GRINER MENNONITE
CHURCH
(20-08-27-201-005.000-034)

MARK & SHARILYN
BYLER
(20-08-27-201-003.000-034)

Note: All R/W described off Line "A" unless otherwise noted.

930 920 910 900 890

BM #706 - Vertical Control Survey Marker L375
2018 in Monument Box
Sta. 140+32.9, 36.4' Rt. of Line 'PR-A'
Elev. 907.62

BM #707 - Mag spike in north face of PWP
Sta. 148+59.2, 21.9' Rt. of Line 'PR-A'
Elev. 913.05

P.V.I. Sta. = 141+20.00
Elev. = 906.98
V.C. = 180.00'

P.V.I. Sta. = 145+85.00
Elev. = 906.35
V.C. = 180.00'

Proposed Profile Line 'PR-A'
-0.13%
+0.00%
+0.58%
+2.95%
+3.00%
Existing Grade
90 LF OF 15" PIPE @ 0.26%
64 LF OF 15" PIPE @ 1.08%
Ditch Profile, LT
Ditch Profile, RT
STR. NO. 11
+46.00
IE. 902.83
IE. 902.83
STA = 143+50.00
ELEV = 902.64
STR. NO. 10
+36.00
IE. 903.06
IE. 903.06
STA = 145+00.00
ELEV = 903.75
STA = 146+00.00
ELEV = 904.33
Sodded Ditch Req'd, RT.

907.2 907.60 | 907.0 907.11 | 906.9 906.87 | 906.8 906.80 | 906.7 906.74 | 906.4 906.67 | 906.3 906.60 | 906.2 906.54 | 906.3 906.47 | 906.4 906.66 | 906.7 907.29 | 907.6 908.36 | 909.0 909.78

141+00 142+00 143+00 144+00 145+00 146+00 147+00

(C) PCCP for Approaches, 6 IN., on
Dense Graded Subbase, 6 IN., on
Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 141+00 TO STA. 147+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

DARLENE K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Darlene Swihart Stutzman

Lochmueller Group, Inc.

SHEET 21
OF 101

File Name: K:\Projects\Project\22005\13-3845\PROPMAP\13-3845_ESK01PMP(1).dwg - 11:3845_ESK01PMP(1)
Modified By: Mark 1 2024 08:56 PM jmolling
Last Saved By: Mark 1 2024 08:56 PM jmolling

147+00 148+00 149+00 150+00 151+00 152+00 153+00

N

LELLEN PROPERTIES LLC
(20-08-22-451-013.000-035)

SEC. 22, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

END PROJECT
P.O.T. 148+65.00 "PR-A"

CP #107 5/8" Rebar with A&Z Control Cap
911.96
63+17.53 Line 'A'
17.38' LT

END INCIDENTAL CONSTRUCTION
P.O.T. 149+15.00 "PR-A"

P.I. 147+60.03 "PR-A" =
O.P.O.T. 62+19.95, 0.29' LT "A"
Delta = 0°31'00" Lt.
No Curve Run

App. Exist. R/W

+59.98

℄ (25.00)
EX R/W (0.00')

CR 20

N 89°42'43" E 62 63 64 N 89°21'08" E LINE 'A' N 89°11'43" E LINE 'PR-A' 65 66 67

Section Line

App. Exist. R/W

App. P. L.

CP #108 5/8" Rebar with A&Z Control Cap
911.92
67+56.35 Line 'A'
16.78' LT

12' 12' 12'

℄ (18.32)
EX R/W (0.00')

P.O.T. 150+00.00 "PR-A" =
O.P.O.T. 64+59.92, 0.94' LT "A"

R/W R/W R/W

+95.00 35.00'
+15.00 25.00'
+55.00 25.00'
+55.00 35.00'
+68.98 Class II Dr. W = 22'
℄ (18.23) 25.00'
BM #707
+25.00 25.00'

Exist. Fence, Remove By Others
Ditch Centerline
Temp. R/W For Drives

App. P. L.

MARK & SHARILYN BYLER
(20-08-27-201-003.000-034)

ERNEST E & LAVERDA M YODER, TRUSTEES
(20-08-27-201-013.000-034)

SEC. 27, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

LEHMAN TRESSIE J TRUSTEE OF TRESSIE J LEHMAN FAMILY
(20-08-27-201-012.000-034)

ERNEST E & LAVERDA M YODER, TRUSTEES
(20-08-27-201-013.000-034)

Note: All R/W described off Line "A" unless otherwise noted.

930 920 910 900 890

P.V.I. Sta. = 147+70.00
Elev. = 911.90
V.C. = 180.00'

BM #707 - Mag spike in north face of PWP
Sta. 148+59.2, 21.9' Rt. of Line 'PR-A'
Elev. 913.05

END PROJECT
STA=148+65.00
ELEV=912.73

Proposed Profile Line 'PR-A'

+0.87%

Existing Grade

+2.95%

STA = 147+50.00
ELEV = 908.75

Ditch Profile, RT

Sodded Ditch Req'd, RT.

909.0 909.78 | 910.6 911.01 | 911.8 911.95 | 912.6 912.59 | 912.9 | 913.0 | 912.9 | 912.7 | 912.7 | 912.5 | 912.4 | 912.4 | 912.5

147+00 148+00 149+00 150+00 151+00 152+00 153+00

(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(M) Milling Asphalt, 1 1/2 IN.

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-A" - PHASE 2
STA. 147+00 TO STA. 153+00

MIDDLEBURY INDIANA

DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			

NO.	REVISION	BY	DATE

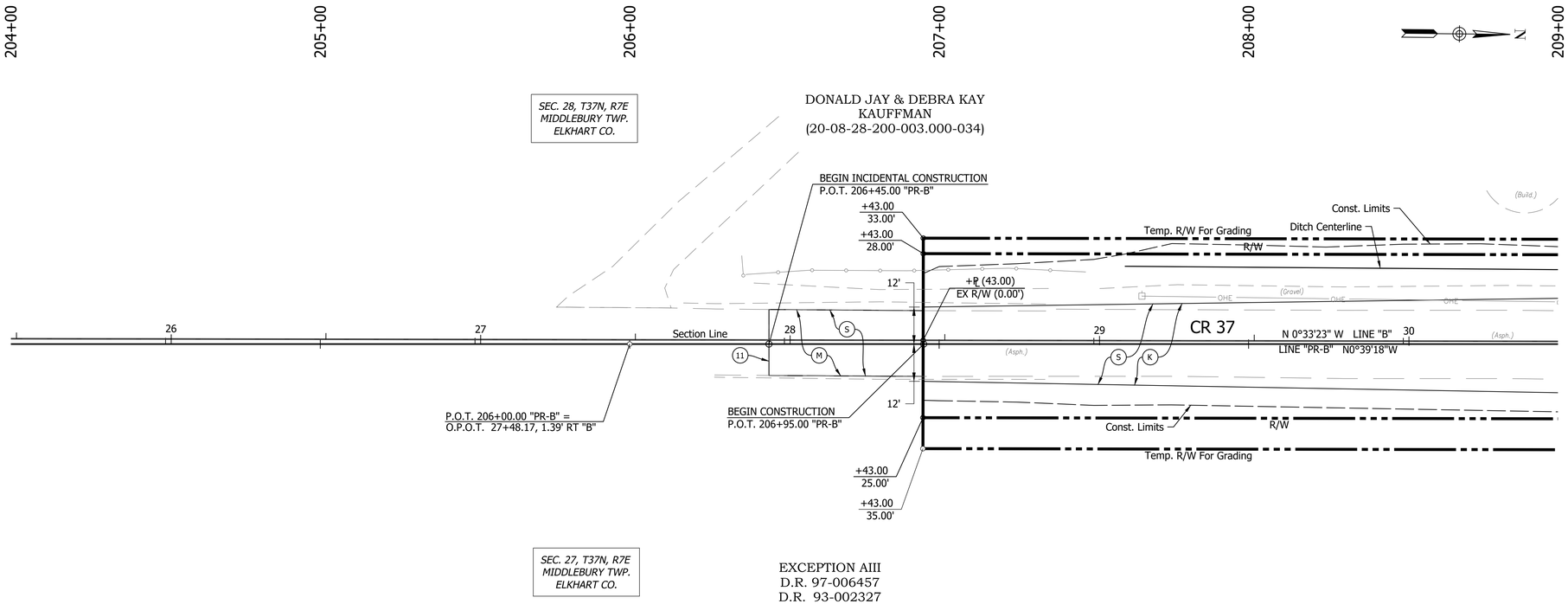
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

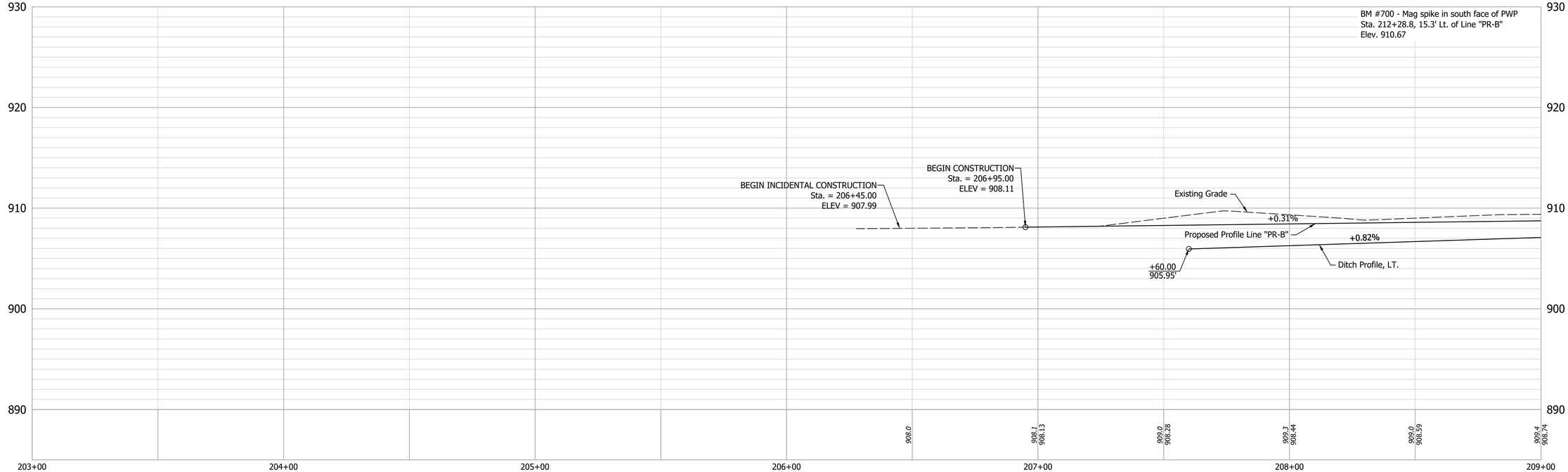
Lochmueller Group, Inc.

SHEET 22
OF 101

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Modified By: March 1 2024 3:48:02 PM jmosley
Plotted By: March 1 2024 4:03:14 PM jmosley



Note: All R/W described from Line "B" unless otherwise noted.



(11) Sawcut

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(M) Milling Asphalt, 1 1/2 IN.

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-B" - PHASE 2
STA. 203+00 TO STA. 209+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE
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2			
3			
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5			

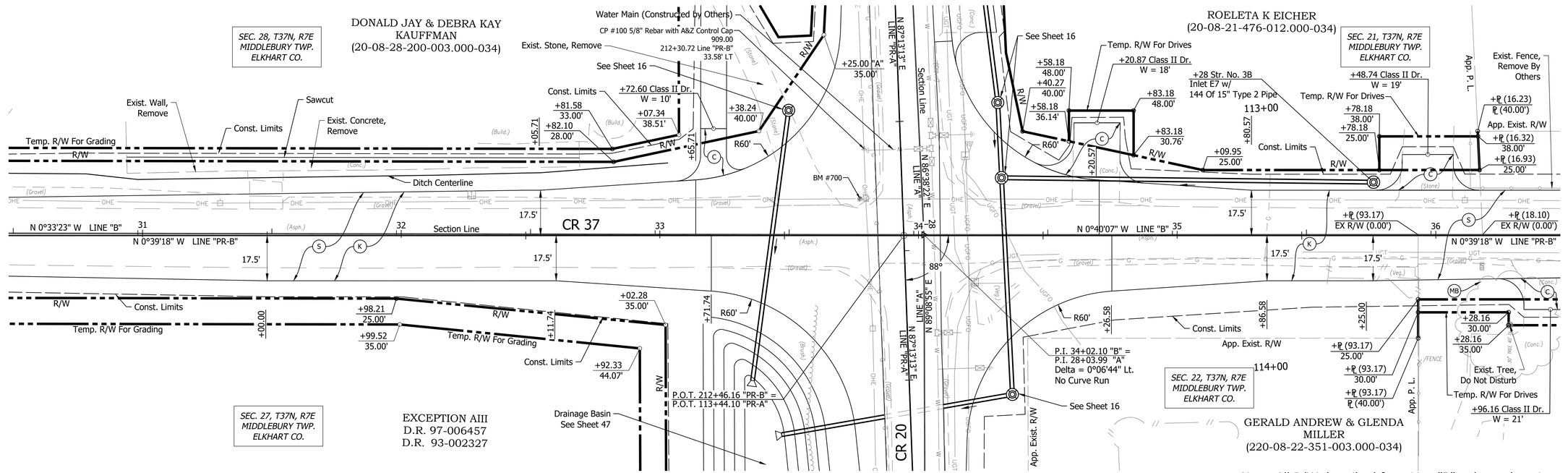
DARWIN K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

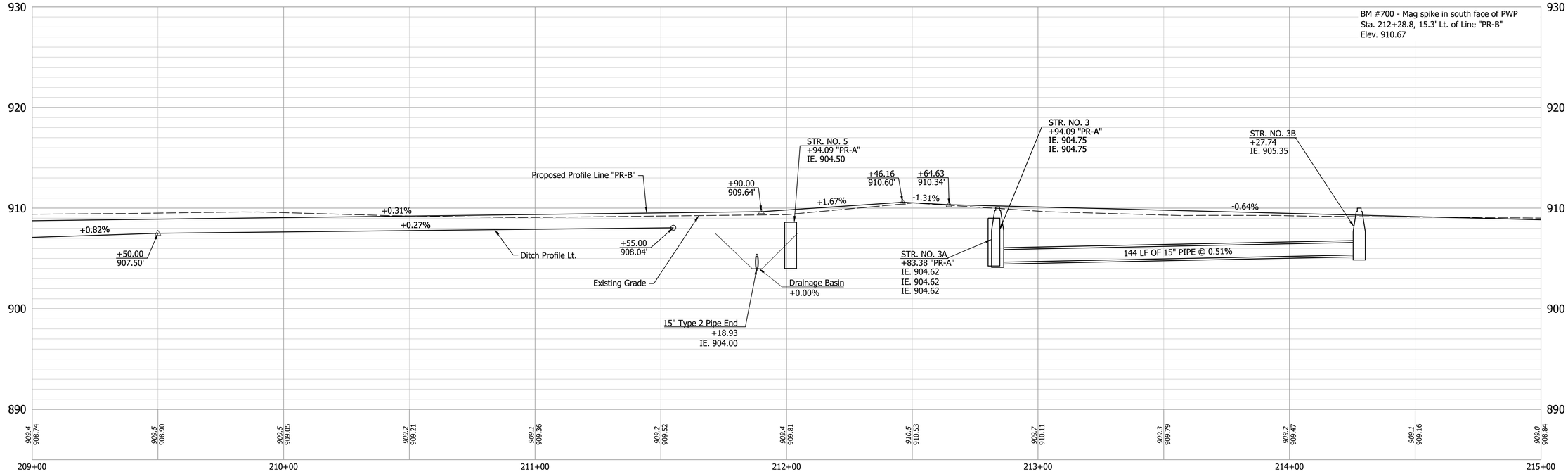
Darwin Swihart Stutzman

Lochmueller Group, Inc.

SHEET 23
OF 101

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Plotted By: Darwin Stutzman
Last Saved By: Darwin Stutzman





(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on 385 LB/SYS HMA Base Type C, 25.0 mm on 4 IN. Compacted Aggregate No. 53

(MB) Mailbox Assembly, Single

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-B" - PHASE 2
STA. 209+00 TO STA. 215+00

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DESIGNED: JRM	APPRV'D: BSS		
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VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
DARWIN K. SWIHART STUTZMAN

Lochmueller Group, Inc.

SHEET 24
OF 101

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KEITH A & NORMA J HELMUTH
TRUSTEES HELMUTH FAMILY REV LIV TRUST
(20-08-21-476-010.000-034)

SEC. 21, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

KEITH A HELMUTH & NORMA J HELMUTH
TRUSTEES LIV TRUST
(20-08-21-476-009.000-034)

WILLIAM J & IDA E MILLER
(20-08-21-476-008.000-034)

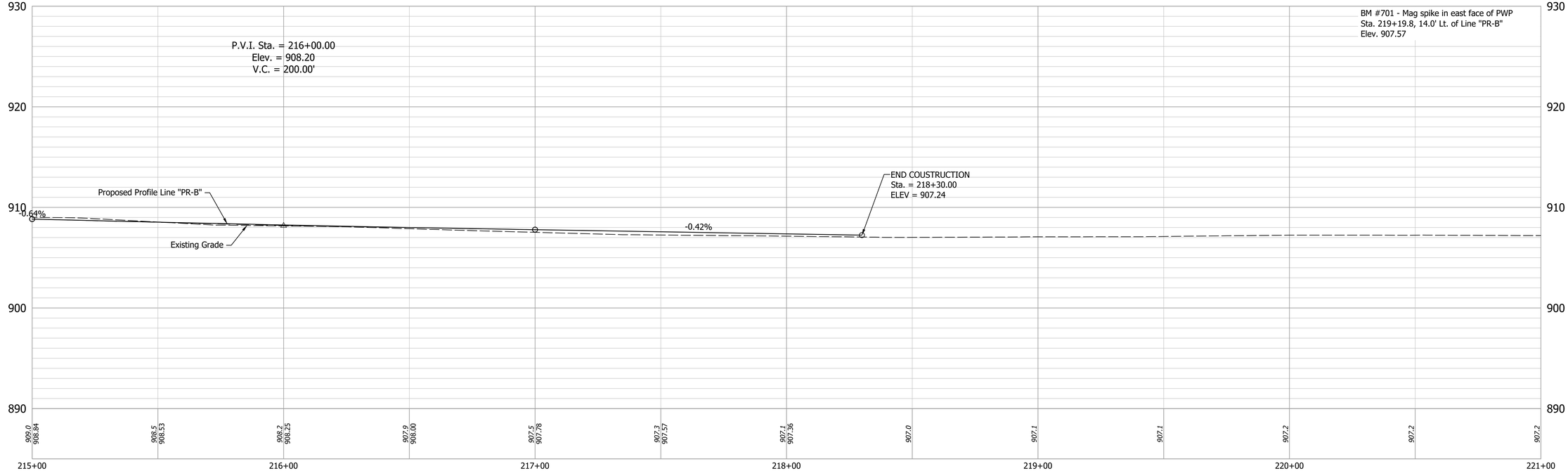
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℄ (77.91)
EX R/W (40.00')
App. Exist. R/W
+25.00
℄ (78.22)
25.00'
R/W
Const. Limits
Exist. Fence, Remove By Others
℄ (78.74)
EX R/W (0.00')
(Farm Field)
END CONSTRUCTION
P.O.T. 218+30.00 "PR-B"
+73.36 Class II Dr.
W = 28'
Exist. Fence, Remove By Others
App. P. L.
+99.00 Class II Dr.
W = 40'
℄ (78.26)
25.00'
R/W
11.2'
BM #701
(Stone)
(Veg.)
(Stone)
17.5'
CR 37
N 0°40'07" W LINE "B"
N 0°39'18" W LINE "PR-B"
Section Line
37 38 39 40 41 42
(Asph.)
(Gravel)
(Farm Field)
11
11.3'
R/W
+80.00
EX R/W (0.00')
℄ (78.79)
EX R/W (0.00')
R/W
Temp. R/W For Drives
℄ (83.96)
EX R/W (0.00')
Const. Limits
R/W
+79.81
25.00'
+63.16
30.00'
+63.16
35.00'
℄ (83.78)
25.00'
℄ (83.74)
30.00'
CP #101 5/8" Rebar with A&Z Control Cap
906.29
219+29.36 Line "PR-B"
15.51' RT
Exist. Light Pole, Do Not Disturb
(Veg.)
(Build.)
App. P. L.

ERNEST J & ADA M
YODER
(20-08-22-351-002.000-034)

SEC. 22, T37N, R7E
MIDDLEBURY TWP.
ELKHART CO.

ERNEST DEAN & RUBY FERN
MILLER
(20-08-22-351-001.000-034)

Note: All R/W described from Line "B" unless otherwise noted.



(11) Sawcut

(K) 275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(K1) HMA For Approaches:
275 LB/SYS HMA Intermediate Type C, 19.0 mm on
385 LB/SYS HMA Base Type C, 25.0 mm on
4 IN. Compacted Aggregate No. 53

(K2) 165 LB/SYS HMA Surface Type C, 9.5 mm on
495 LB/SYS HMA Base Type C, 25.0 mm

(M1) Milling Asphalt, 4 IN.

(S) 165 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-B" - PHASE 2
STA. 215+00 TO STA. 221+00

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DESIGNED: JRM	APPRV'D: BSS		
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VERT. SCALE: 1" = 5'			

NO.	REVISION	BY	DATE

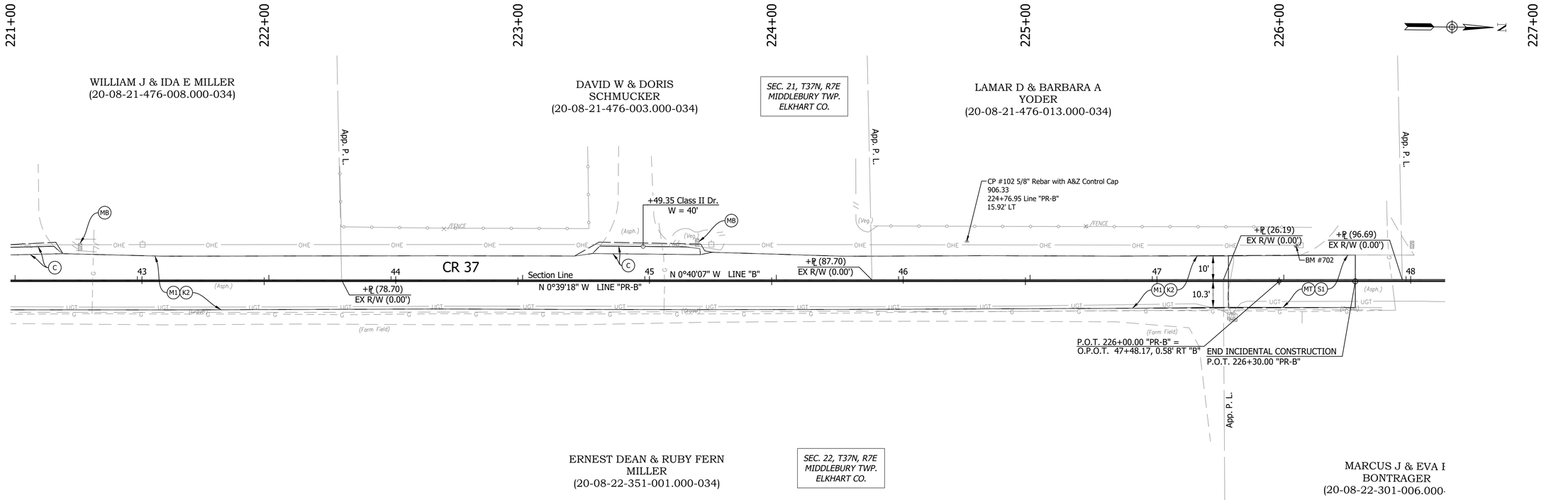
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

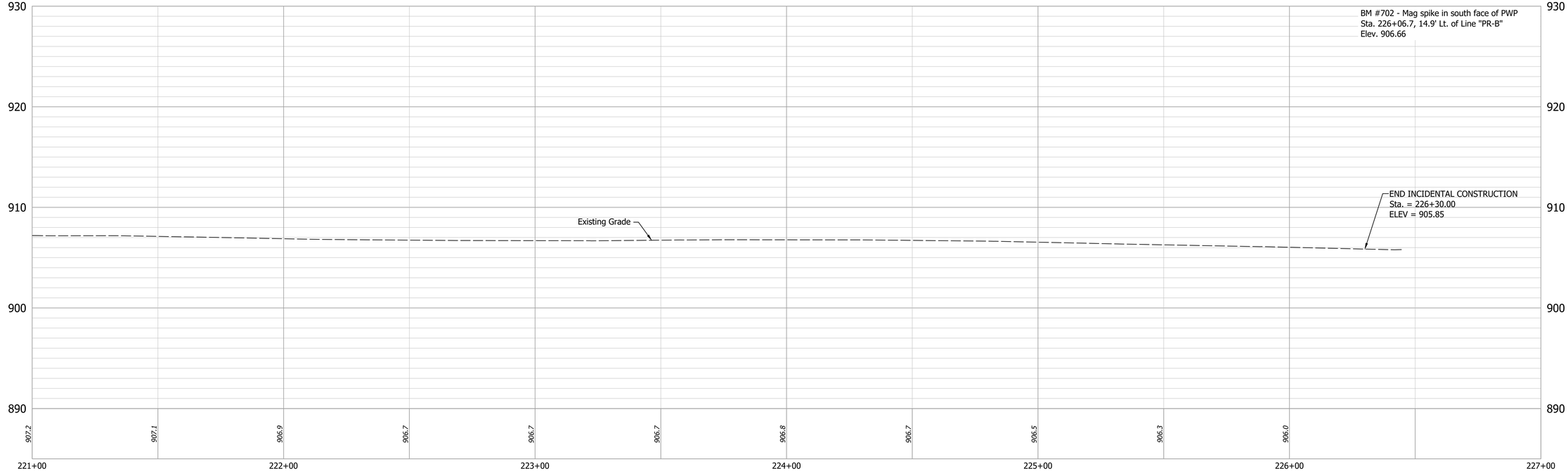
Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 25
OF 101

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Modified By: Barbara Swihart Stutzman
Saved By: Barbara Swihart Stutzman
Plotted By: Barbara Swihart Stutzman





(C) PCCP for Approaches, 6 IN., on Dense Graded Subbase, 6 IN., on Subgrade Treatment, Type II

(K2) 165 LB/SYS HMA Surface Type C, 9.5 mm on 495 LB/SYS HMA Base Type C, 25.0 mm

(M1) Milling Asphalt, 4 IN.

(MB) Mailbox Assembly, Single

(MT) Milling, Transition

(S1) 220 LB/SYS HMA Surface Type C, 9.5 mm

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PLAN & PROFILE - LINE "PR-B"
STA. 221+00 TO STA. 227+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
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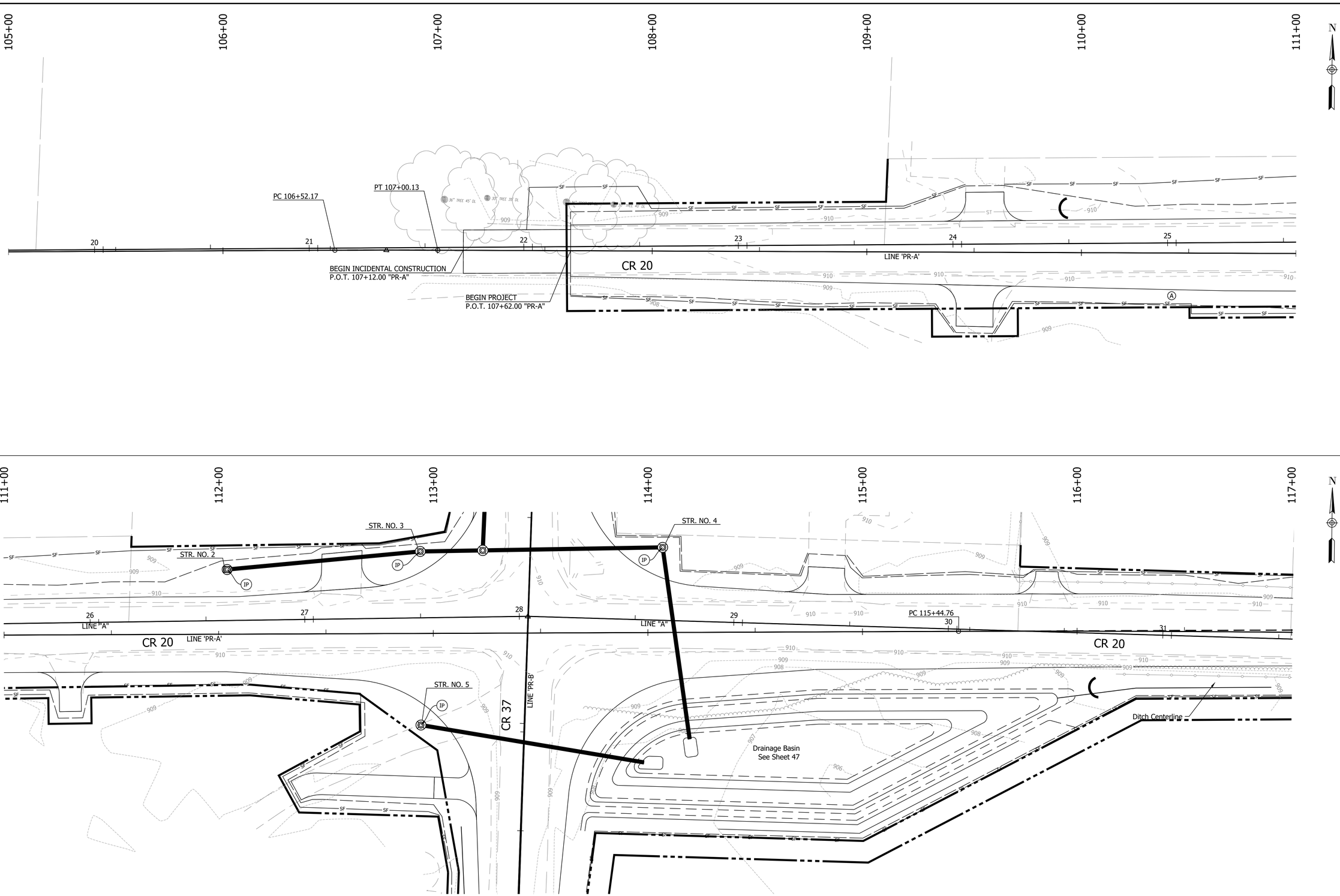
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 26
OF 101

File Name: I:\Projects\P-2022\111.0600\CADD\PLS\1-3846 PKG\P&P DLSY.dwg - 11:3846_DLSY.P&P.tb
Modified By: Kevin.Lilley@LochMueller.net
Last Saved By: Kevin.Lilley



Check Dam
Filter Sock
SF Silt Fence
Rock Filter Berm
IP Inlet Protection

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-A"
Sta. 105+00 To Sta. 117+00

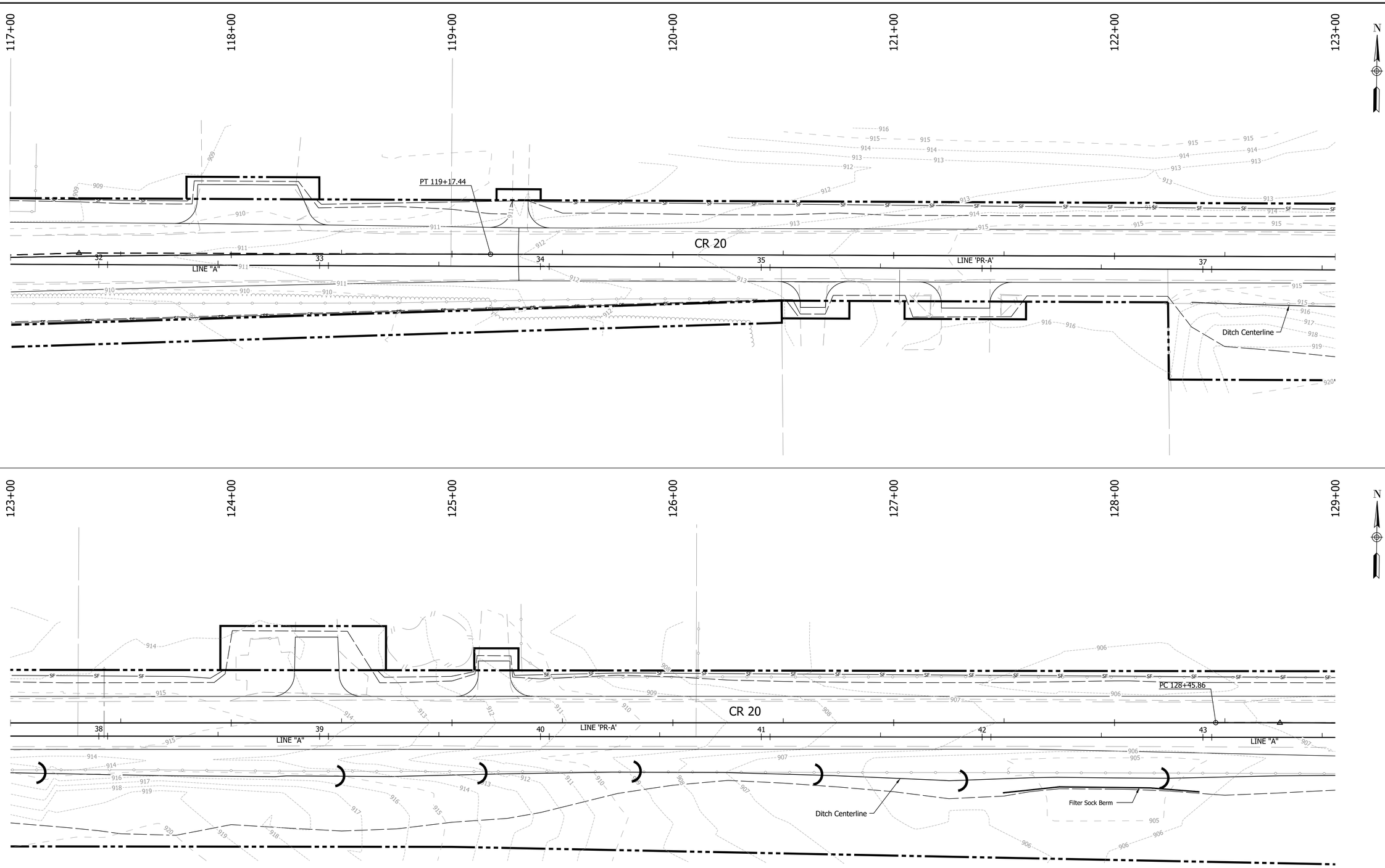
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VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER
Barbara Swihart Stutsman
Lochmueller Group, Inc.

SHEET 27
OF 101

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Saved By: March 1, 2024 1:09:37 PM | jmeiser
Plotted By: jmeiser



Check Dam
Filter Sock
SF Silt Fence

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-A"
STA. 117+00 TO STA. 129+00

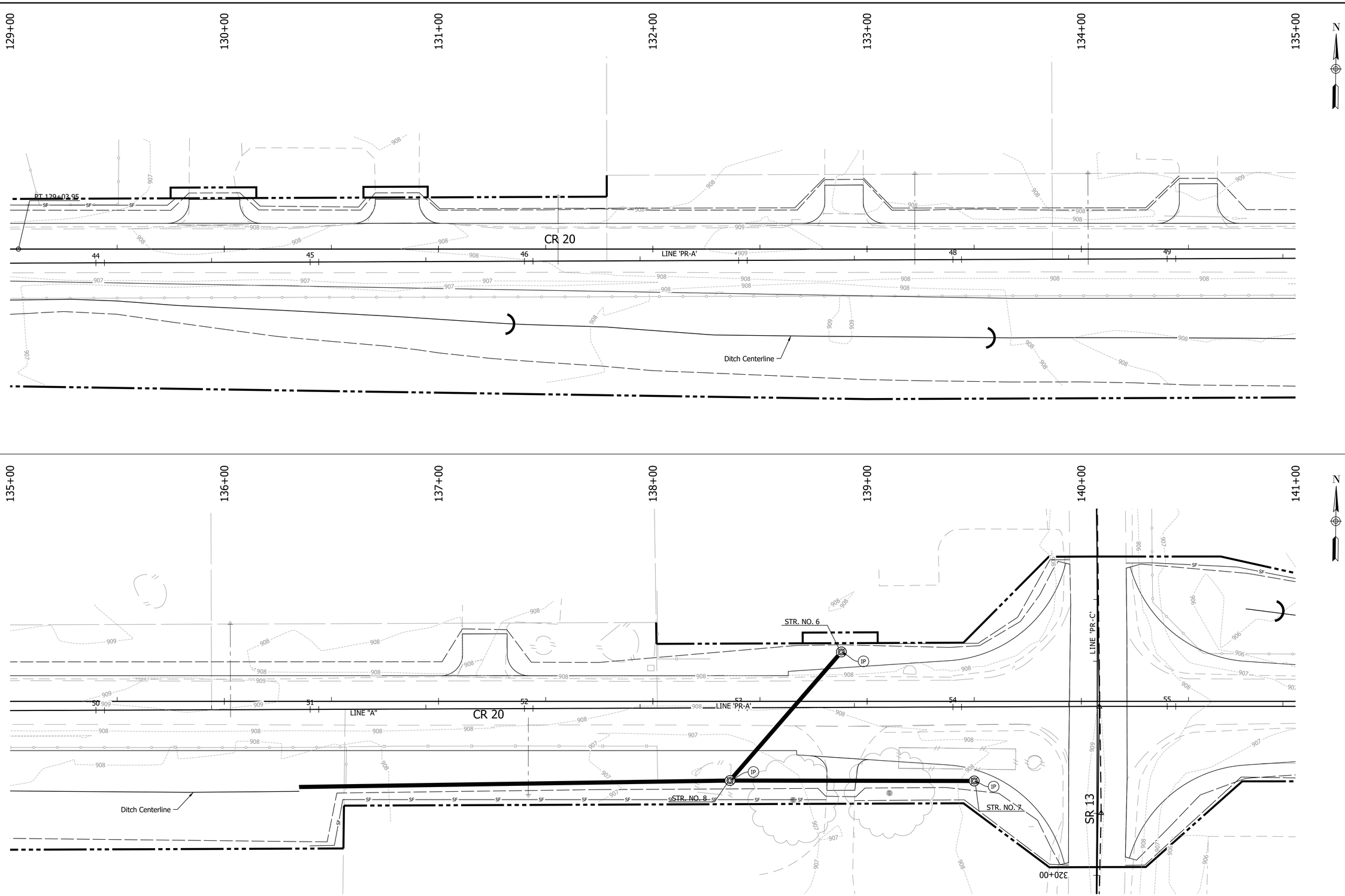
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PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER
Barbara Swihart Stutsman
Lochmueller Group, Inc.

SHEET 28
OF 101

File Name: X:\Projects\Proj\22005\13 DESIGN\CAD\Sheets\13-1644_Erosion Control CR 20.dwg - 13-1644_CR 20 Erosion (2)
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Last Saved By: jmiller
March 1 2024 1:09:39 PM
March 1 2024 1:08:46 PM



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112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

Check Dam
Filter Sock
SF Silt Fence
IP Inlet Protection

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-A"
STA. 129+00 TO STA. 141+00

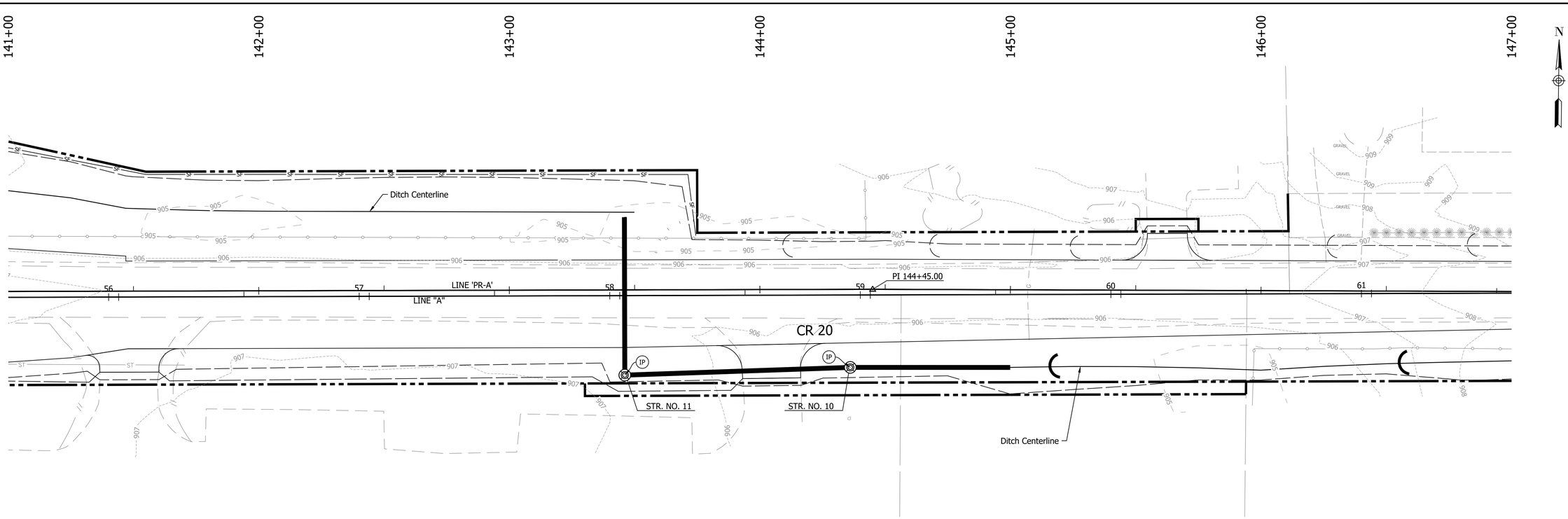
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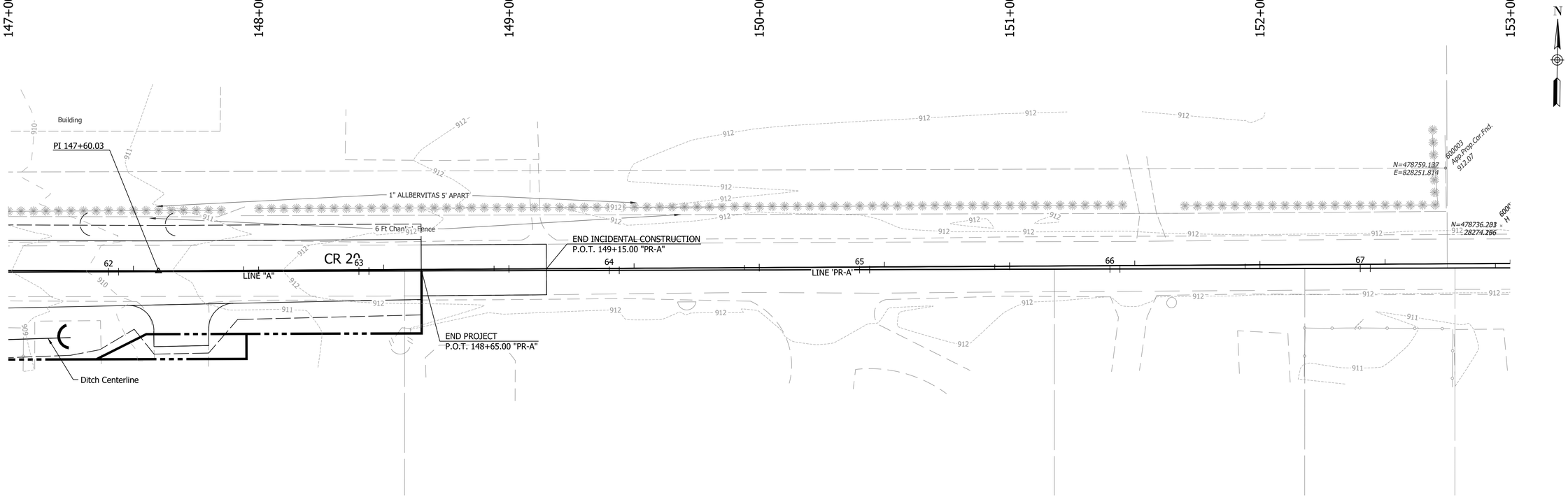
NO.	REVISION	BY	DATE

BARBARA K. SWITHART STUTZMAN
REGISTERED No. PE10911254 STATE OF INDIANA
PROFESSIONAL ENGINEER
Barbara Swithart Stutzman
Lochmueller Group, Inc.

SHEET 29
OF 101

File Name: X:\Projects\Proj\22005\13 DESIGN\Documents\13-3464 Erosion Control CR 20.dwg - 13-3464_CR 20 Erosion (3)
Modified By: Jason Mullins
Last Saved By: Jason Mullins
Plotted: Mar/1/2024 01:09:39 PM





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112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

Check Dam
Filter Sock
SF Silt Fence
Rock Filter Berm
IP Inlet Protection

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-A"
STA. 141+00 TO STA. 153+00

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DESIGNED: JRM	APPRV'D: BSS		
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PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER
Barbara Swihart Stutsman
Lochmueller Group, Inc.

SHEET 30
OF 101

File Name: X:\Projects\Projects\22005\13 DESIGN\Documents\13-3464 Erosion Control CR 20.dwg - 13-3464_CR 20 Erosion (4)
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Modified On: March 1 2024 1:09:39 PM
Plotted By: bstutsman
Plotted On: March 1 2024 1:09:48 PM

203+00 204+00 205+00 206+00 207+00 208+00 209+00

BEGIN INCIDENTAL CONSTRUCTION
P.O.T. 206+45.00 "PR-B"

BEGIN PROJECT
P.O.T. 206+95.00 "PR-B"

CR 37

LINE 'PR-B'

Ditch Centerline

LINE "CR 37"

209+00 210+00 211+00 212+00 213+00 214+00 215+00

STR. NO. 5

STR. NO. 3

STR. NO. 4

LINE 'PR-A'

LINE "A"

LINE "B"

Ditch Centerline

CR 37

LINE 'PR-B'

CR 37

LINE "B"

Drainage Basin
See Sheet 47

Check Dam
Filter Sock
Silt Fence
Rock Filter Berm
Inlet Protection

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-B"
STA. 203+00 TO STA. 215+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
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VERT. SCALE: N/A	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

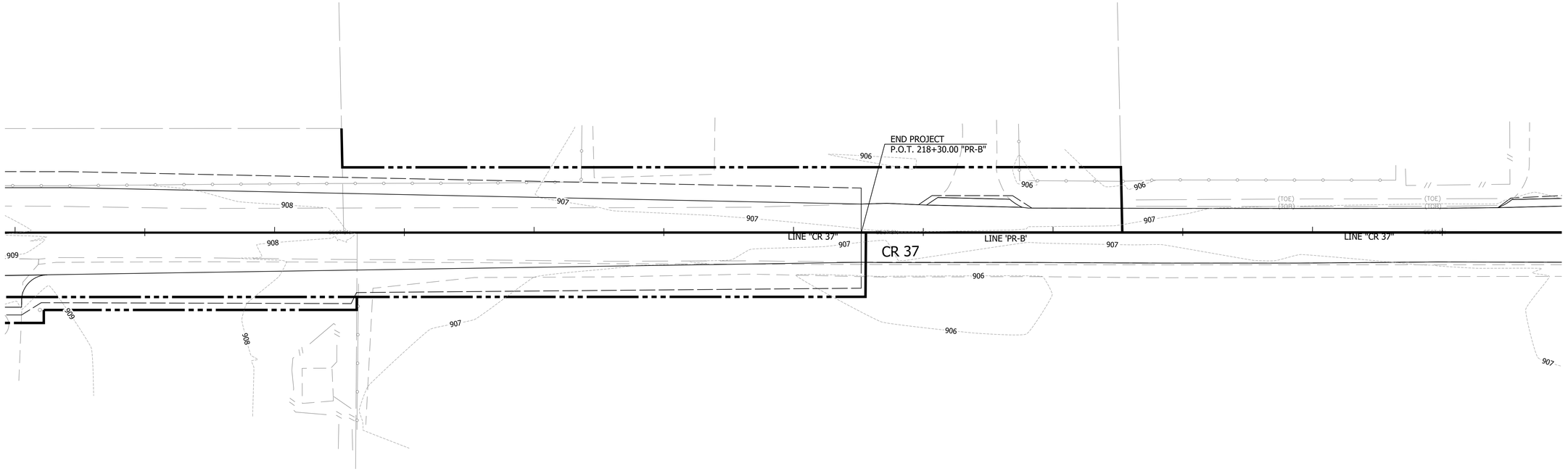
Barbara Swihart Stutzman

Lochmueller Group, Inc.

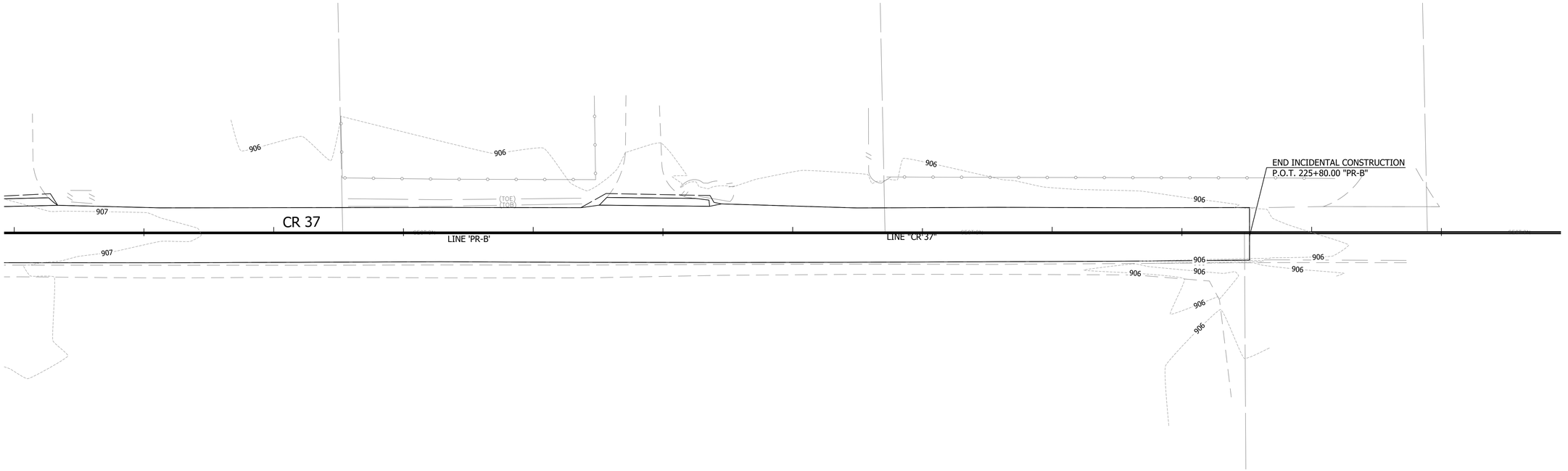
SHEET 31
OF 101

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Plotted By: Joseph Gerig
Plot Date: August 22, 2023 8:57:39 AM
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221+00 222+00 223+00 224+00 225+00 226+00 227+00



Check Dam
Filter Sock
SF Silt Fence
Rock Filter Berm
IP Inlet Protection

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL - LINE "PR-B"
STA. 215+00 TO STA. 227+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutsman

Lochmueller Group, Inc.

SHEET 32
OF 101

File Name: X:\Projects\Middlebury\2022\22005\CAD\Sheets\22005 EROSION CONTROL CR 37.dwg
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Plotted By: Joshua Gall
Plotted On: August 25, 2023 8:32:39 AM
Xrefs: X:\2022\22005\CAD\Xrefs\22005 XREF.dwg

NATURE & PURPOSE OF CONSTRUCTION ACTIVITY

A-1 Index showing locations of required Plan Elements.
Sheet 25 (This Sheet)

A-2 Vicinity map depicting site location in relationship to local landmarks, towns, and major roads
Sheet 1 (Title Sheet)

A-3 Narrative describing the nature and purpose of the project.
The purpose of this project is to improve portions of CR20 and CR37 in the City of Middlebury, IN

A-4 Project location latitude and longitude.
Begin: 41.639363°N/-85.716815°W End: 41.639526°N/-85.701740°W

A-5 Legal Description of the Project Site
Specifically, the project site is located in:
- Indiana, Elkhart County, City of Middlebury, Middlebury USGS Quadrangle
-- Middlebury Township: T37N, R7E, Sections 21, 22, 27, & 28

A-6 11 X 17-inch plat showing building lot numbers/boundaries and road layout/names.
Sheets 6 - 17

A-7 100 year floodplains, floodways, and floodway fringes.
According to the enclosed FEMA FIRM map the project area is outside the 100 year flood plain.

A-8 Adjacent landuse
Adjacent land is dominated by residential and commercial properites.

A-9 Identification of any US EPA approved or established TMDL.
No named or identified TMDLs are located within the project watershed.

A-10 Identification of all receiving waters.
Little Elkhart River

A-11 Identification of discharges to a water on the current 303(d) list.
No waterbodies listed on the 303 (d) list are located within the project watershed.

A-12 Soils map including soil descriptions and limitations.
Soil Map was derived from the USGS Soil Survey of Elkhart County, IN. See enclosed soils map and report.

A-13 Location and name of all wetlands, lakes and water courses on and adjacent to the site.
There are no wetlands, lakes, or jurisdictional water courses within or adjacent to the project limits.

A-14 Notation of any State or Federal water quality permits.
Construction Stormwater General Permit (CSGP)

A-15 Identification of existing vegetative cover, including natural buffers.
Paved roadway, manicured lawns, city maintained grassy right-of-ways.

A-16 Existing site topography.
See Plan Sheets 6 - 17
See Cross-section Sheets 39 - 88

A-17 Locations where run-off enters the project site.
Runoff will enter the site from cross streets and sheet flow from adjacent vegetated properties.

A-18 Locations where run-off discharges from the project site.
Stormwater runoff will exit the site via the Middlebury Municipal Stormwater system and roadside ditches.
See Plan Sheets 6 - 17 for these locations.

A-19 Location of existing stormwater systems/structures.
See Plan Sheets 6 - 17

A-20 Existing permanent retention or detention facilities.
Middlebury Municipal Stormwater Sewer system.

A-21 Identification of potential discharges to ground water.
There are no known areas within the project site where stormwater will be discharged to groundwater.

A-22 Project Area
Total Acreage: 9.07 acres

A-23 Proposed Land Disturbance
Total Acreage: 7.68 acres

A-24 Proposed final topography.
See Plan Sheets 6 - 17
See Cross-section Sheets 39 - 88

A-25 Locations and approximate boundaries of all disturbed areas.
Sheets 6 - 17 show the anticipated work areas.
Disturbance is anticipated to remain within the designated work areas.

A-26 Locations, size, and dimensions of all stormwater drainage systems.
Plan and Profile Sheets 6 - 17 show location of the proposed stormwater system.

A-27 Specific points where stormwater discharge will leave the site.
The project drains into the Middlebury Municipal Storm Water Sewer system and will exit the site via road side ditches.
See Sheets 6 - 17 for these locations.

A-28 Locations of all proposed site improvements.
Plan and Profile Sheets 6 - 17 show location of the proposed improvements.

A-29 Locations of proposed soil stockpiles and/or borrow/disposal areas.
Offsite disposal of demolition debris is anticipated for this project. Waste sites shall be accepted by the Engineer prior to the start of any disposal operations. For each proposed disposal site, an IC-203 Request for Acceptance of Borrow or Disposal Site form shall be submitted to the Engineer a minimum of 14 days prior to the Contractor's planned start of disposal operations. All requests for acceptance of disposal sites shall be in accordance with INDOT Standard Specification 203.08(a).

A-30 Location of any construction support activities (i.e. laydown yard, concrete batch plant, staging areas, etc.).
Proposed laydown and material storage areas shall be identified by the Contractor and accepted by the Engineer prior to Contractor mobilization. Contractor shall be responsible for ensuring proper E&SC BMPs are installed around these areas to prevent sediment and chemical discharges into adjacent properties, water resources or stormwater systems.

A-31 Location of any in-stream activities.
No in-stream activities are proposed for this project.

Assessment of Stormwater Pollution Prevention Plan
Construction Component (Section B)

B-1 Description of potential pollutant sources associated with the construction activities:
Potential pollutant sources associated with this construction activity include those normally associated with construction equipment and construction activities such as: concrete wash out water, soil sediment, oils, fuels, hydraulic fluids, transmission fluids, brake fluid, antifreeze, greases, brake dust, etc. All heavy equipment shall be parked on site at a location, when not in use; leakage from the equipment will be captured by the surrounding terrain, and not be provided a direct path to the surrounding storm water system. Sediment discharge will be controlled by proper work sequencing and proper installation of E&SC BMPs. Concrete wash out will be controlled through proper construction of concrete wash out containments.

B-2 Construction Entrance:
It is anticipated that most of the work for this project will be conducted from paved surfaces. While construction entrances are not shown in the SWPPP the Contractor shall install stable entrances/exits as need to keep mud and sediment off public roads. Any mud, soil, rock tracked onto open public roads shall be immediately removed. CEs shall be installed in accordance with INDOT standard drawing E-205-TECD-12.

B-3 Specifications for temporary and permanent stabilization:
Temporary surface stabilization shall be accomplished by the use of a temporary seed mixture along with temporary mulching. The temporary seed mixture shall be used to establish a temporary cover for disturbed soils during the construction operations. Temporary seeding (INDOT Seed Mix T) shall be placed on disturbed areas that are expected to be idle for 7 days or greater, or as directed by the Engineer. Placement of temporary surface stabilization shall be completed per INDOT Standard Specification 205.04.

Permanent surface stabilization shall be achieved by the use of pavement, sod and a permanent seed mixture (INDOT Seed Mixture R), along with mulching material and fertilizer. Placement of the permanent surface stabilization shall immediately follow final grading of an area and shall be completed per INDOT Standard Specification 621 unless otherwise specified.

B-4 Sediment control measures for concentrated flow areas:
No concentrated flow areas are anticipated for this sidewalk and pedestrian trail project.

B-5 Sediment control measures for sheet flow areas:
Filter Socks (FS): A temporary barrier consisting of permeable material (compost or mulch) contained in a permeable geotextile fabric or non-biodegradable net matrix installed to intercept and treat sediment-laden runoff from small unvegetated, or disturbed drainage areas. They will trap sediment by intercepting runoff and reducing the velocity of the runoff into stabilized areas. Filter socks shall be installed as needed along back of curb to treat runoff from sidewalk and greenscape construction. They shall be installed in accordance with INDOT Standard Drawing E 205-TECD-10 and manufacturer recommendations.
Vegetative Filter Strip (VFS): A vegetative filter strip is an area where the ground cover is to be left undisturbed to filter runoff from the disturbed drainage area. All existing vegetation located outside of the construction limits, shall not be disturbed, to act as vegetative filter strips. In some cases, filter socks may not be needed if a minimum 20-foot vegetative filter is left between disturbed areas and the edge of the site or a concentrated flow area.

B-6 Runoff control measures:
Concrete Washout (CW): Concrete washout areas shall be installed and utilized as containment for washing equipment of uncured concrete and associated liquids. They shall be constructed in accordance with INDOT Standard Specification 205.03 and detail on Sheet 26. All concrete washout water shall be discharged to a concrete washout area. CW's will be placed a minimum of 50 feet from any body of water and located away from inlets and stormwater conveyances. They shall be placed on stable material and in such a manner that all washout water is captured and contained in the CW.
Inlet Protection (IP): Inlets are designed to carry moderate and large flows of of storm water. Inlets transport sediment to streams, rivers, wetlands and lakes if they are not properly protected. This sediment control measure can be the last chance to remove sediment before storm water leaves the job site. Inlet protection shall be installed according to INDOT Standard Drawings E 205-TECD-02 through E 205-TECD-05 or another method approved by the engineer.
Filter Berm (FB): Used to trap sediment from long linear, disturbed areas by reducing velocity of sheet flow. Filter berms capture sediment by filtering storm water runoff and by ponding smaller amounts of water at their base to allow settling and deposition. Can be constructed with rock, compost or filter socks. Filter berms shall be constructed in location shown in the drawings and in accordance with Detail on Sheet 27.
Sediment Trap: A sediment trap is placed to contain and minimize sediment release by pooling storm water runoff and allowing time for suspended soil particles to settle. Should be placed in ditches at the downstream end of the construction area or immediately before a ditch flows into a jurisdictional waterway.
Filter Sock (FS): See B-4 for details.
Vegetative Filter Strip (VFS): See B-5 for details.

B-7 Stormwater outlet protection specifications:
No outlet protection is anticipated for this project.

B-8 Grade stabilization structure locations and specifications:
Disturbed grades shall be stabilized in accordance with B-12 and as shown in the drawings.

B-9 Dewatering application and management methods:
Dewatering: While dewatering is not specified in the SWPPP design it may be required to remove water collected in excavations or other low areas. Proper outflow of the dewatering activity should be reviewed and planned for to prevent discharge of sediment laden runoff into adjacent storm sewer inlets. Dewatering components include pump, water filtering device (sediment bag), stabilized outlet, and secondary containment (check dam, silt fence, filter sock, etc.). They shall be installed in accordance with Detail on Sheet 27.

B-10 Measures utilized for work within waterbodies:
No work within a waterbody is anticipated for this project.

B-11 Monitoring and maintenance guidelines for each proposed pollution prevention measure:
In accordance with INDOT Specification 205, the contractor shall develop a Storm Water Quality Control Plan (SWQCP). The SWQCP shall include the processes and procedures of how the Contractor intends to meet the requirements as outlined in INDOT Standard Specification 205 and the approved SWPPP. Any individual phase of the SWQCP shall be submitted to the Engineer for review a minimum of 14 calendar days prior to commencing earth disturbing activities for that phase. Temporary erosion and sediment control measures shall be self-inspected by the Contractor's SWQM, once every seven days and within 24 hours of a 1/2 inch measurable storm event. Inspections shall be documented and records shall be maintained by the Contractor's SWQM and be made available for review upon request. Records shall include, at a minimum: date, inspector's name, maintenance and corrections needed based on the inspection, and status of previously identified deficiencies. INDOT Form 108-c-192d: Storm Water, Erosion, and Sediment Control Inspection Report may be utilized and is available on INDOT's website for use. The temporary protection measures shall be returned to good working condition within 48 hours after inspection or as directed. Inspections shall continue until the entire contract is complete and has been permanently stabilized and the Notice of Termination has been filed with the reviewing authority.

Assessment of Stormwater Pollution Prevention Plan (Cont'd)
Construction Component (Section B)

B-11 Monitoring and maintenance guidelines for each proposed pollution prevention measure (Cont'd):

The following shall apply to maintaining the specific erosion and sediment control facilities:

- Construction Entrances:
  - Inspection
  - Verify entrances are where they are most effective.
  - Ensure entrances do not interfere with existing drainage patterns.
  - Inspect entrances each day they are being used.
  - Monitor tracking onto public roads and observe sediment being collected in the stone.
  - Maintenance
  - Redress #2 stone as necessary to provide clean stone with voids capable of trapping additional sediment.
  - Remove and replace #2 stone on construction entrances near sensitive areas or where redressing could cause a safety or drainage problems.
  - Sweep or otherwise remove sediment from public roads at the end of each day and throughout the day as necessary.
  - Reshape, resize or relocate ineffective construction entrances.
- Filter Sock:
  - Inspection
  - Monitor sediment accumulation and remove one it reaches one-quarter of the height of the filter berm/sock.
  - Look for areas that been damaged by storm water or equipment.
  - Maintenance
  - Replace or resecure damaged filter socks.
  - Replace with rock or stronger measure if damage is sever or reoccurring.
  - Remove accumulated sediment once it reaches one-quarter of the height of the filter berm.
- Vegetative Buffers
  - Inspection
  - Inspect for the beginning of erosion rills or channel erosion.
  - Inspect for sediment accumulation.
  - Maintenance
  - Promptly repair any small rills that form.
  - Add fertilizer and soil amendments as needed to maintain healthy vegetation.
  - Mow as needed but not shorter that four inches.
  - Where the filter strip has actively trapped sediment during construction, remove the accumulated sediment, regrade the area and reseed it when conditions are favorable for vegetative establishment.
- Inlet Protection
  - Inspection
  - Look for damaged, clogged or ineffective materials.
  - Make sure storm water is not bypassing or undercutting any type of inlet protection that has been installed.
  - Maintenance
  - Remove sediment after each storm event.
  - If measure is repeatedly damaged or clogged, consider additional erosion and sediment control measures upstream in a series.
  - Cleaning by flushing with water will not be allowed.
- Concrete Washout
  - Inspection
  - Make sure all concrete slurry can be contained within the washout provided. Construct additional washouts as needed.
  - Inspect daily during concrete placement operations.
  - Ensure washout is completely contained with one sheet of plastic free of tears.
  - Dispose of cured concrete per specifications.
  - Maintenance
  - Repair or replace if leaks, spills or tears are found.
  - Provide additional concrete washout as needed to ensure adequate capacity.
- Filter Berm
  - Inspection
  - Monitor for sediment accumulation.
  - Identify locations where filter stone or filter medium appears clogged.
  - Look for areas that have been damaged by storm water or equipment.
  - Maintenance
  - Remove sediment once it reaches one-quarter the height of the berm.
  - Repair damaged areas as needed or directed.
  - Replace clogged filter stone.
- Sediment Trap
  - Inspection
  - Water shoulod drain within 72 hours of a rain event.
  - Check for clogged filter stone and sediment build up.
  - Maintenance
  - Remove sediment sediment once the sediment trap is one-half full.
  - Replace filter stone when water does not drain within 72 hours.

The SWQM, shall routinely inspect the overall performance of erosion and sediment control facilities and areas downstream of the project site. If eroded material/silt is apparent downstream from the facilities, some failure has occurred, and the inspector shall notify the Contractor and Engineer. The Contractor shall remove the accumulated sediment downstream and add additional erosion and sediment control measures to address the issues as necessary. The contractor shall implement all recommended solutions to the problem areas as recommended by the SWQM, Engineer, IDEM, or SWCD inspector within 48 hours.
Following completion of construction and final stabilization of all disturbed areas, the Contractor shall dismantle the remaining temporary erosion and sediment control elements. The contractor shall remove any unsuitable material from the site left from the erosion and sediment control measures. The disturbed areas, following removal of the temporary measures, shall be stabilized with permanent vegetation. When all construction is complete, temporary measures have been removed, and vegetation is established, the SWQM and Engineer shall complete a final release inspection.

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MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

EROSION CONTROL INFORMATION SHEET

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE:	
HORIZ. SCALE: No Scale	
VERT. SCALE: No Scale	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
Barbara Swihart Stutzman Lochmueller Group, Inc.

File Name: X:\Projects\Planning\22005.XXX\Engineering\Admin\PROGS\SWPPP\Design\37-7E\MS_Middlebury Intersection Improvements Information Sheet.dwg - IEC_Admin Sht
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Assessment of Stormwater Pollution Prevention Plan (Cont'd)
Construction Component (Section B)

B-12 **Planned construction sequencing:**

Upon completion of the initial site inspection, and before any vegetation is removed from the site, this erosion and sediment control plan shall be implemented. The plan must be dynamic and ever changing as the project develops. Proper sequencing of work may reduce the amount of bare soil and therefore reduce the need for extensive erosion and sediment control measures. Every detail of stormwater and erosion protection cannot be planned in advance. The measures shown within these drawings are considered to be the minimum protection required. The contractor must be prepared to implement additional measures as needed to prevent sediment loss when weather or work activities dictate. Continual maintenance and updating of the plan by the construction contractor is of utmost importance. Below is a general sequencing of events for this erosion and sediment control plan. While the contractor shall dictate the actual sequencing of construction, erosion and sediment control measure shall be implemented as described below during each phase of construction.

1. Flag or denote all construction limits.
2. Contractor shall develop a Storm Water Quality Control Plan (SWQCP) that shall include a Concrete Waste Water Plan and establish areas for storage of potential pollutants (e.g. concrete washout, fuel storage, hydraulic fluids, etc.). SWQCP shall be provided to the Engineer a minimum of 14 days prior to commencement of earth moving activities.
3. A pre-construction meeting with the owner, contractor, and contractor's Storm Water Quality Manager (SWQM) shall be held.
4. Identify and protect all existing vegetation designated to be undisturbed.
5. Prior to removal of existing vegetation or pavement:
   - 5.1. Install perimeter protection, i.e. silt fence, filter sock, etc
   - 5.2. Construct retention basins, these measures shall be used to treat runoff during construction.
   - 5.1. Install inlet protection for all inlets that may receive sediment laden runoff.
   - 5.2. Install construction entrances as needed to prevent sediment from being carried onto public roads.
   - 5.3. Proposed locations for these measures are shown on the plans, but may need to be modified and/or replaced based on the contractor's approved SWQCP.
6. Prior to placement of any concrete, install concrete washouts where needed and in accordance with approved Concrete Waste Water Plan to ensure that no concrete washout water enters road side ditches, comes in contact with the ground, or leaves the project limits.
   - 6.1. Concrete washouts shall be located no closer than 50 feet from any jurisdictional waterway, body of water, wetland or stormwater inlet.

B-13 **Erosion and sediment control specifications for individual building lots:**

Not applicable.

B-14 **Material handling and spill prevention plan:**

Contractor's SWQM will develop a Concrete Waste Water Plan that will be provided to the Engineer a minimum of 14 days prior to any concrete placement. Any onsite storage of hazardous materials/potential pollutants, such as diesel fuel, shall be stored onsite surrounded by an earthen dike or other secondary containment system having a storage volume equal to 150% of tank capacity, to contain potential pollutants. Any additional means of containing releases should be accessible to a petroleum storage area; this would include various absorbent materials. Furthermore, all equipment, when not in use, shall be parked onsite in an area that, should potential pollutants leak, will be contained within the immediate area and will not be inadvertently conveyed to drainage swales and away from the project. Any leakage of pollutants from storage vessels or equipment shall be cleaned up and disposed of offsite in a legal manner. In the event of a release, a licensed environmental consulting company shall be contacted for spill cleanup assistance. The spill shall be reported to both IDEM's 24-hour emergency response line at (888) 233-7745 and the City of Middlebury dispatch at (574) 825-1484 for local emergency response.

B-15 **Material handling and storage procedures associated with construction activities:**

Proposed waste storage areas shall be identified by the Contractor and accepted by the Engineer prior to Contractor mobilization. Garbage and construction debris shall be gathered and stored in a properly sized roll off dumpster. Tarps or other form of cover may be required to keep debris in dumpster during high winds. Concrete washout water shall be directed into leak-proof containers or leak-proof containment areas which are located and designed to divert stormwater run-off away from the measure. Size concrete washouts to prevent the discharge and/or overflow of wash water. Waste sites shall be accepted by the Engineer prior to the start of any disposal operations. For each proposed disposal site, an IC-203 Request for Acceptance of Borrow or Disposal Site form shall be submitted to the Engineer a minimum of 14 days prior to the Contractor's planned start of disposal operations. All requests for acceptance of disposal sites shall be in accordance with INDOT Standard Specification 203.08(a).

Stormwater Pollution Prevention Plan - Post Construction Component (Section C)

C-1 **Description of pollutants and their sources associated with the proposed land use:**

Additional pollutant sources will be from trash (both organic and inorganic), lawn chemicals, grass clippings, grit brought in from the existing surrounding roads from various vehicles (fuel, antifreeze, oil, grease, brake dust, brake fluid, transmission fluid, other hydrocarbons, etc.), pet and other animal waste, etc.

C-2 **Description of proposed post construction storm water quality measures:**

All disturbed areas within the construction limits not paved shall be graded, seeded, and established as permanent vegetated filter strips and swales in accordance with the INDOT Standard Specification 621 and the SWQCP. Chapter 8 of the Indiana SWQM identifies 81% removal of total suspended solids (TSS) through the use of vegetated swales. Vegetated filter strips are anticipated to remove greater than 81% TSS and will be the primary post construction storm water quality control measure.

C-3 **Plan details for each stormwater measure:**

Stormwater measures for this project consist of installation of new stormwater inlets and pipes, road side ditches, and construction of two retention basins. These new features shall be tied into the Middlebury Municipal Storm Water system.

C-4 **Sequence describing stormwater quality measure implementation:**

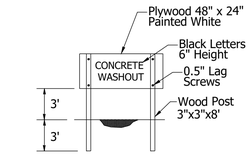
Immediately following final site grading, the site shall be stabilized in accordance with these drawings and B-12. Retention basins shall be cleaned of all sediment accumulation, graded to final contours, and stabilized in accordance with these drawings and B-12. All existing vegetation outside of the project limits will not be disturbed, this vegetation will continue to filter out pollutants from the stormwater prior to it leaving the site, and entering into the surrounding water sources.

C-5 **Description of maintenance guidelines for proposed post-construction water quality measures:**

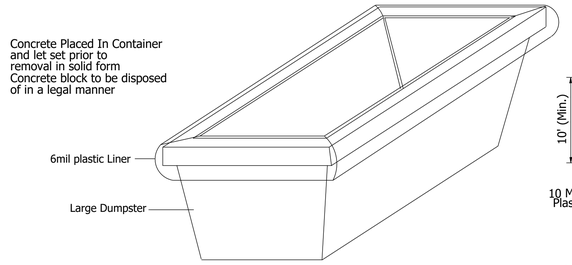
Erosion and sediment control: Repair and revegetate eroded areas in the project site. Remove debris, grit, trash, etc. from stormwater inlets. These measures will be implemented, as needed, based on regular inspections by the City of Middlebury.

C-6 **Entity responsible for operation and maintenance of post-construction stormwater measures:**

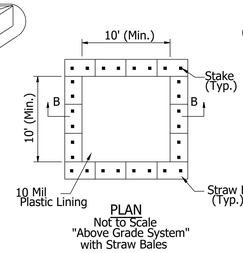
Following construction, the area shall be maintained in by the City of Middlebury according to their standard operating procedures in regards to inspections, mowing, debris and litter removal, nuisance control, sediment removal, and general right-of-way maintenance.



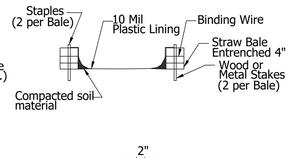
CONCRETE WASHOUT SIGN DETAIL
Not to Scale



CWO CONCRETE WASHOUT - ABOVE GRADE SYSTEM
Not to Scale



PLAN
Not to Scale
"Above Grade System"
with Straw Bales



Staple Detail
Not to Scale

CONCRETE WASHOUT - ABOVE GRADE SYSTEM

DI DROP INLET PROTECTION
GEOTEXTILE BOX

Concrete Washout:
Concrete washout systems can be manufactured systems or systems constructed on site above grade.

Design Considerations:
* Sizing Considerations:
  - ** Storage volume of the containment structure should correlate to the anticipated amount of plastic cementitious material used for construction.
  - ** Washout sizing must must include provisions for mortar operations
    - *** Provide source of clean water for washing tools
    - *** Capture washwater and/or transfer to containment structure
  - ** Estimating washwater volumes for concrete deliveries can be highly variable due to weather, air temperature, product slump, concrete temperature, and number of chutes used:
    - *** One method to estimate washwater volume is to use 20 to 40 gallons per ready mix truckload (20 to 40 gallons x total cubic yards (~8 cubic yards per truckload) = total estimated gallons washwater generated)
    - *** For concrete pump trucks allow for a minimum of 50-gallons of washwater per pump use
* When sizing washout, contractor must include an additional 25% freeboard to ensure structure will not overtop.
* System shall be designed to eliminate run-off and minimize precipitation from entering the washwater containment system.

Structure Specifications:
* Manufactured systems or disposable containments.
  - ** Use the required materials or components according to product specifications.
* Structures built on-site must be watertight.
  - ** Must have strength to resist failure or collapse for duration of the project or use.
  - ** Washout systems should be a minimum of ten feet wide by ten feet long, but sized to contain all liquid and waste that is expected to be generated between scheduled clean-out periods.
    - *** Washout size may be limited by the available size of polyethylene.
    - *** Polyethylene lining shall be a single continuous sheet, sufficient to adequately line the entire containment and have a minimum thickness of 10-millimeter.
    - *** Must be durable, resistant to washwater chemistry, and weathering or deterioration.
    - *** Must be free of defects, holes, rips or tears.
    - *** The bottom of the washout shall level and clean of sticks, stumps, rocks and other debris that may penetrate the liner.
  - ** Install signage identifying location of washwater containments/facilities and to discourage disposal of non-washwater materials into washout facilities.
* Provide maximum fill level indicator to allow sufficient capacity in the containment to avoid overfilling or overflows.
  - ** Containments shall not be filled beyond 75% of the containment capacity.

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MIDDLEBURY INTERSECTION IMPROVEMENTS

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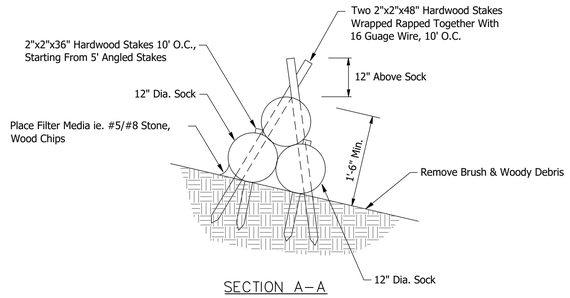
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DESIGNED: JRM	APPRV'D: BSS		
DATE:			
HORIZ. SCALE: No Scale			
VERT. SCALE: No Scale			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE
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BARBARA K. SWIHART STUTSMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER
Barbara Swihart Stutsman
Lochmueller Group, Inc.

SHEET 34
OF 101

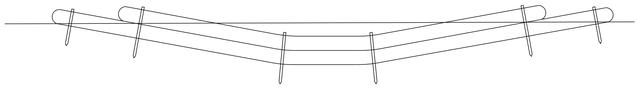
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Modified By: Barbara Swihart Stutsman
Date/Time: 12/9/2021 2:43:28 PM
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SECTION A–A



PLAN VIEW



(FS) FILTER SOCK

(FB) FILTER BERM

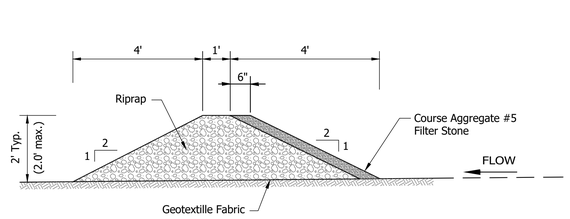
Not to Scale

Installation:

FS/FB Shall not exceed three socks in height and shall be staked in pyramidal form as shown above. Turn the ends of the rolls up slope such that the point of contact between the ground and the bottom of the fiber roll end terminates at a higher elevation than the top of the fiber roll at its lowest point. If more than one fiber roll is placed in a row, the socks should be overlapped; not abutted.

Inspection and Maintenance:

The Contractor shall maintain filter sock in a functional condition at all times and routinely inspect to see if material is functioning properly during storm events. The Contractor shall inspect fiber rolls weekly and within 24 hours of a rainfall event. Repairs to filter socks will be made within 24 hours of failure. The Contractor shall remove sediments collected at the base of the fiber roll when they reach 1/3 of the exposed height of the fiber roll, or as directed by the Engineer.



FILTER BERM- FIILTER STONE

Not to Scale

Materials & Specifications:

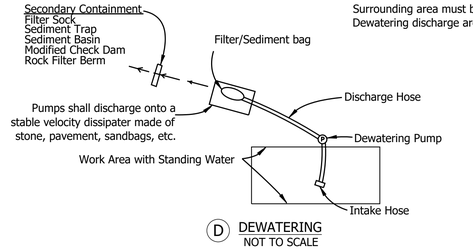
*INDOT Riprap

*INDOT CA No. 5 aggregate, CA No. 8 is acceptable if No. 5 aggregate is not available. The use of No. 8 stone may result in more frequent overtopping of the structure and will increase the frequency of structure maintenance.

Installation

1. Place riprap to a minimum height of 24". Tie the ends into a level contour proviging a minimum of 24" water pooling depth of the deepest point. Construct the berm such that it has a 1:1 or flatter outside slope and a 2:1 or flatter inside slope.

2. Cover the outside face of the filter berm with at least a 12 inch thick layer of INDOT CA No. 5 aggregate (for filtration). Maintain a 2:1 or flatter slope.



(D) DEWATERING

NOT TO SCALE

DEWATERING

1. Dewatering of the project area shall be performed using a mechanical pump. A dewatering (filter) bag shall be securely connected to the end of the discharge hose. The suction hose shall be floated as long as possible to prevent the pump from pulling sediment from the bottom of the pooled area.
2. The dewatering bag may be of the single-use or reusable variety and shall be constructed of non-woven, polypropylene geotextile material. Each type and size of dewatering bag can handle varying rates of flow. The bag shall have for following minimum specifications:

Permittivity	Grab Tensile	Weight	Apparent Opening Size
1.4 sec	200 lbs	8 oz/yd^2	80 US Sieve

3. The dewatering bag shall be placed on a flat non-erodible surface. Placing the dewatering bag on top of an aggregate base will help to increase flow through the fabric by providing a larger surface area of discharge and prevent erosion of the supporting soils.
4. Water shall not be pumped from the project area at a rate faster than the manufacturer's maximum recommended flow rate of the dewatering bag.
5. Dewatering bags shall be placed in a location in which runoff will pass through additional sediment control measures prior to entering the channel (i.e. rock filter berm, check dam, sediment trap, etc.).
6. Following completion of dewatering, the sediment accumulated within the dewatering bag shall be removed from the bag and placed in an upland area.

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VERT. SCALE: No Scale	
PROJECT NUMBER 22005	

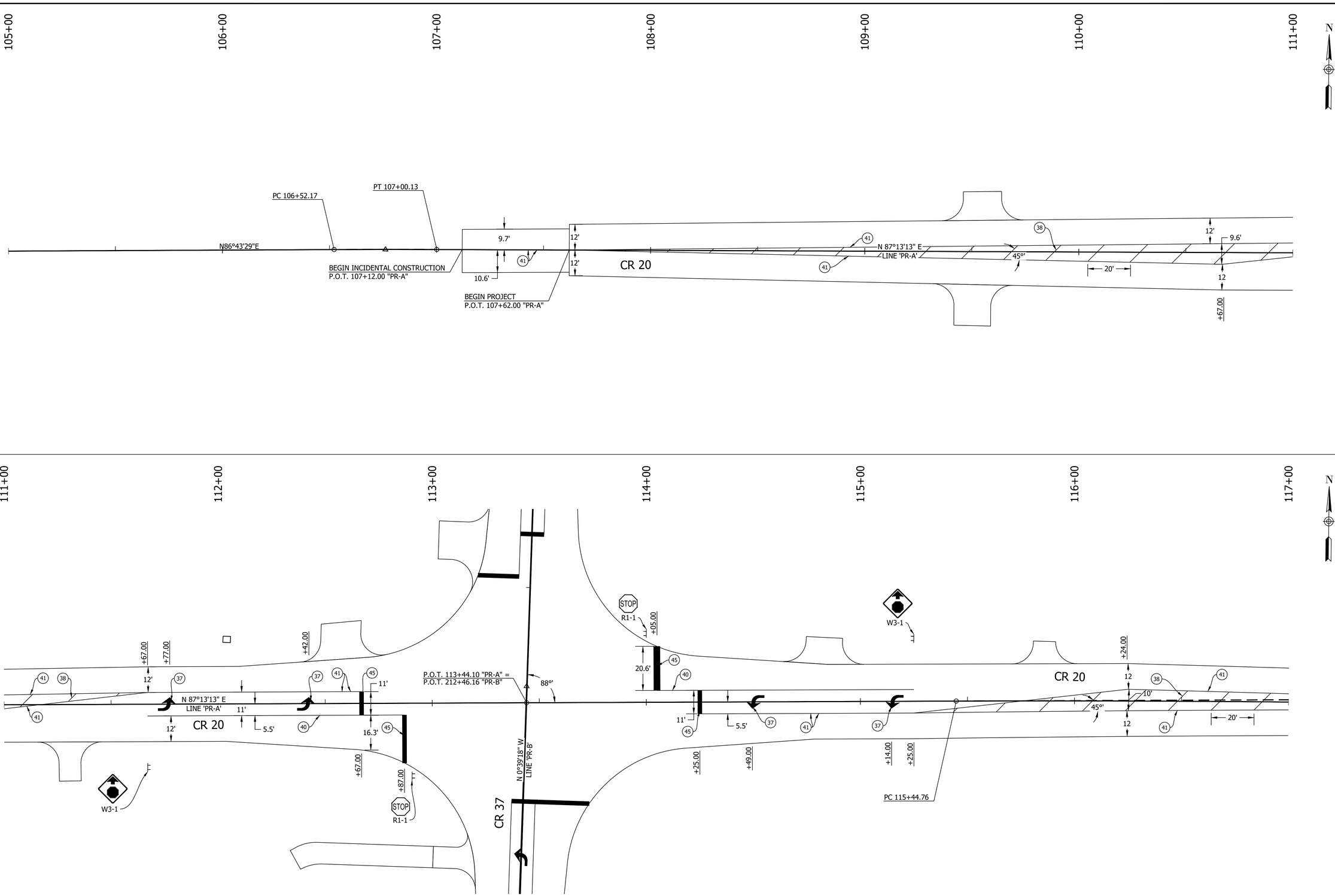
NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

BARBARA K. SINHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Barbara Sinhart Stutzman Lochmueller Group, Inc.

SHEET 35
OF 101

File Name: X:\Production\Proj\2021\21-0645\Deliverables\INVRIS\SOP\Design\21-0645_MiddleburyIntersectionImprovements Information Sheet.dwg, EC_Details (2)
Date/Time: September 09, 2022 4:33:39 PM
Last Saved By: Jeffrey Mishler
Xrefs: LOGO.DWG, Title Sheet.dwg, xref



37 Pavement Message Marking, Paint, Lane Indication Arrow

38 Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.

40 Line, Paint, Solid, White, 4 IN.

41 Line, Paint, Solid, Yellow, 4 IN.

45 Transverse Marking, Paint, Stop Line, White 24 IN.

⊤⊤ Sign, Sheet, with Legend, 0.080 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-A'
STA. 105+00 TO STA. 117+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

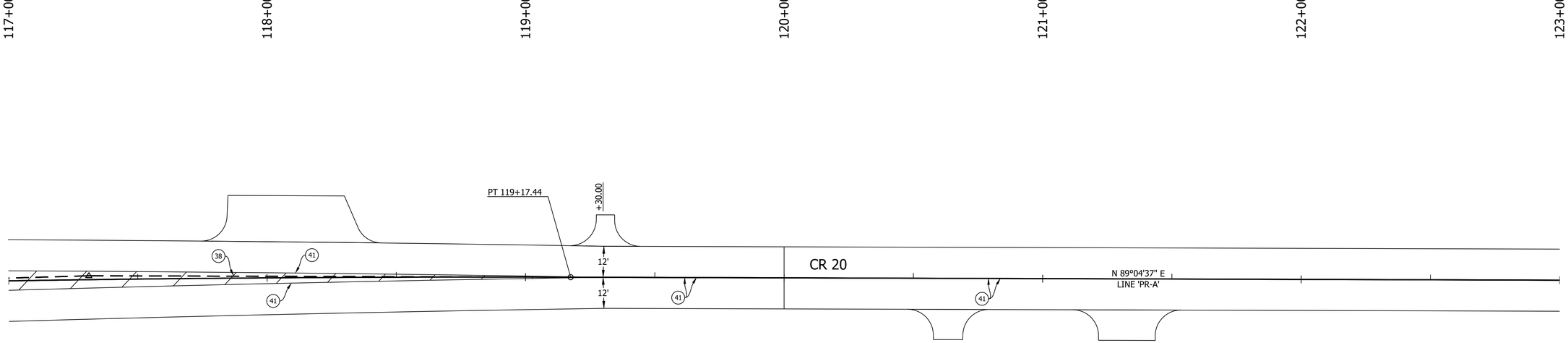
NO.	REVISION	BY	DATE

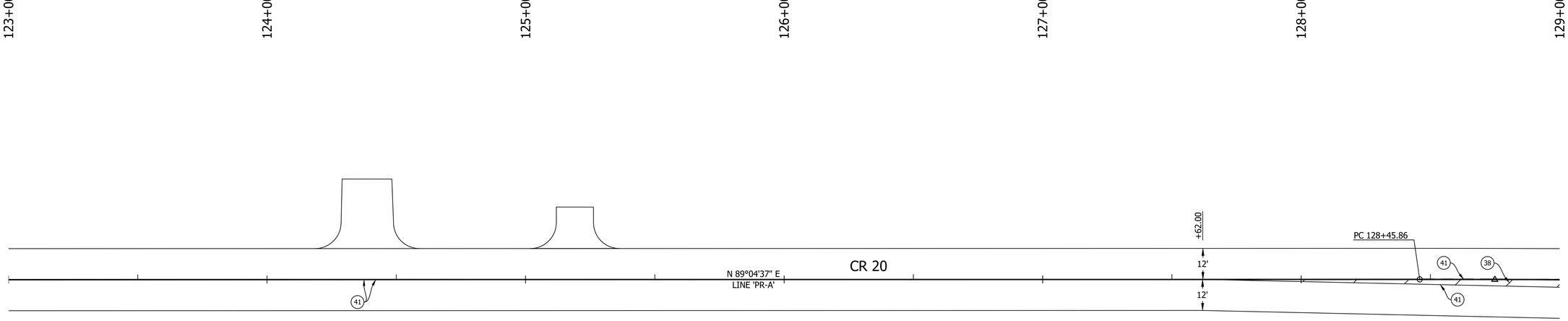
BARBARA S. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 36
OF 101

File Name: X:\Projects\Middlebury\22005\13-SHEETS\PDF\Plan\Sheet\13-SMA MRK CR 20.dwg - 13-SMA_CR 20 MRK (1)
Modified By: Mon/n 1/2024 8:43:13 AM / JRoher
Saved By: Mon/n 1/2024 8:39:24 AM / bstutz...pdf





(38) Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.

(41) Line, Paint, Solid, Yellow, 4 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-A'
STA. 117+00 TO STA. 129+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

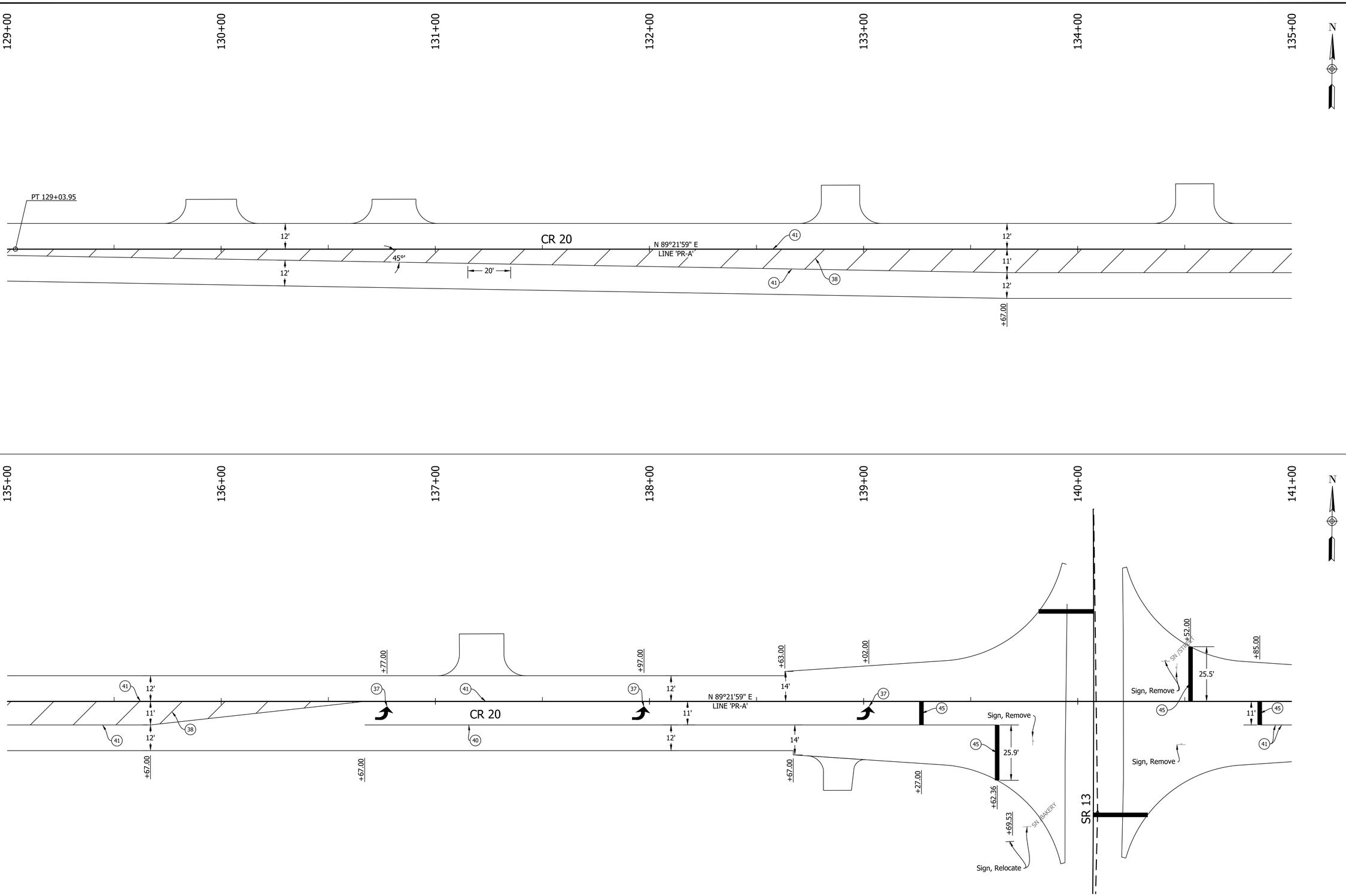
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbie Swihart Stutzman Lochmueller Group, Inc.

SHEET 37
OF 101

File Name: X:\Projects\Middlebury\2022\22005\CAD\Sheets\Intersection\37-SMA MRK CR 20.dwg - 11:1 SMA_CR 20 MRK (2)
Modified By: March 1, 2024 8:41:11 AM JTDolan
Saved By: March 1, 2024 8:38:39 AM JTDolan



(37)	Pavement Message Marking, Paint, Lane Indication Arrow	⊤⊤	Sign, Sheet, with Legend, 0.080 IN.
(38)	Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.		
(40)	Line, Paint, Solid, White, 4 IN.		
(41)	Line, Paint, Solid, Yellow, 4 IN.		
(45)	Transverse Marking, Paint, Stop Line, White 24 IN.		

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-A'
STA. 129+00 TO STA. 141+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

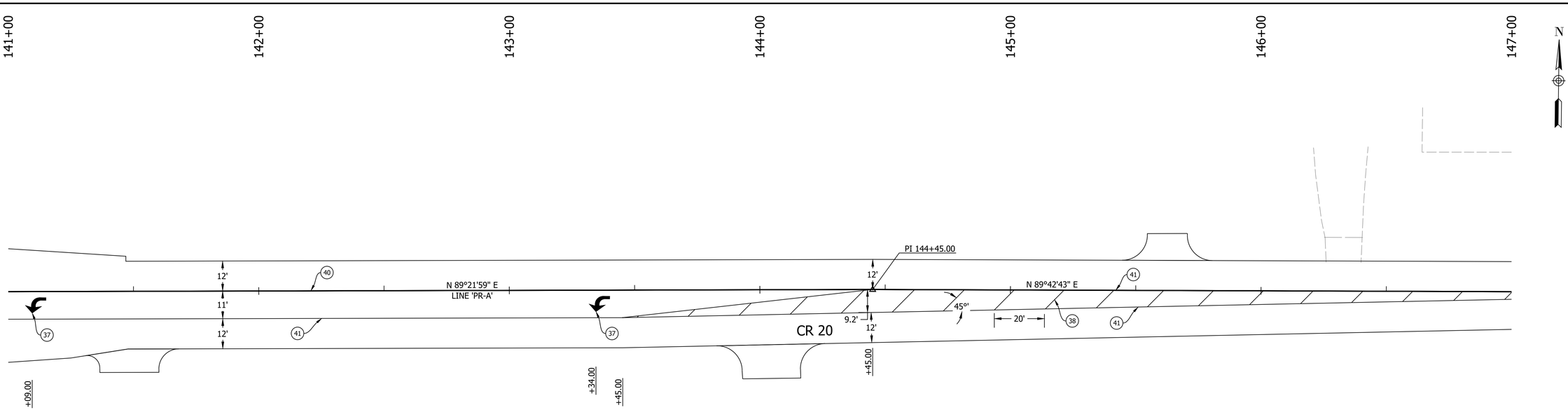
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

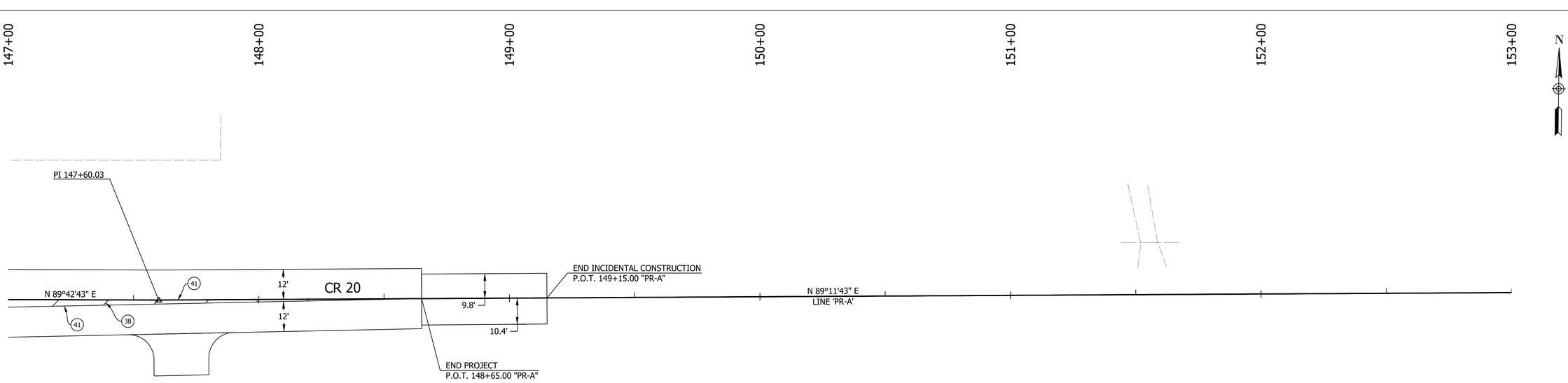
Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 38
OF 101

File Name: X:\Projects\Middlebury\2021\LS\MUSE\Graphics\Maps\21-5846 MIN CR 20.dwg - 21-5846_CR 20 MIN (3)
Modified By: Mar 01, 2024 - 8:14:01 AM
Created By: March 1, 2024 8:13:57 AM / BBlackman
Layout Name: 38 - Sheet Name: White





(37) Pavement Message Marking, Paint, Lane Indication Arrow

(38) Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.

(40) Line, Paint, Solid, White, 4 IN.

(41) Line, Paint, Solid, Yellow, 4 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-A'
STA. 141+00 TO STA. 153+00

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: N/A	
PROJECT NUMBER 22005	

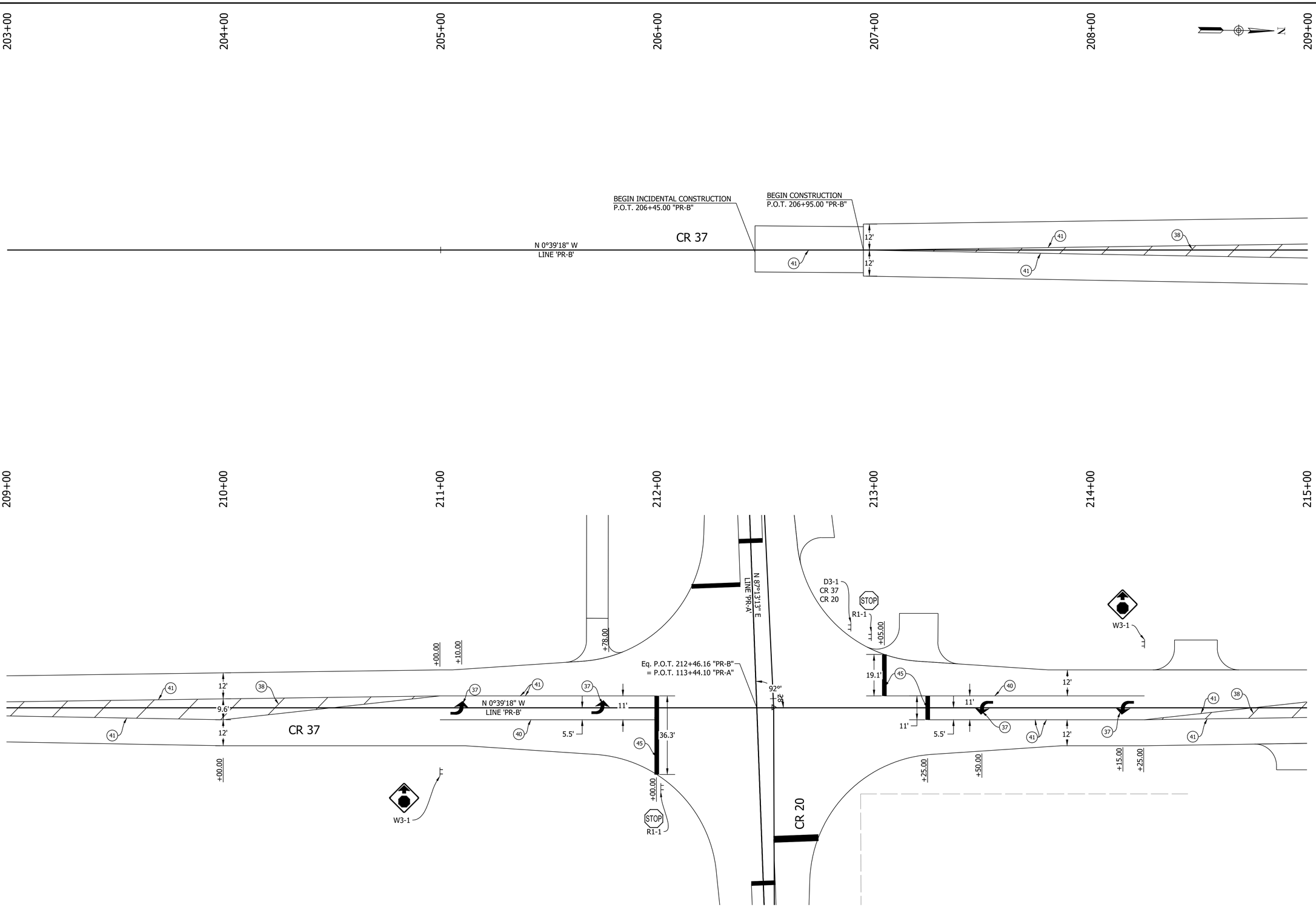
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbie Swihart Stutzman Lochmueller Group, Inc.

SHEET 39
OF 101

File Name: X:\Projects\Middlebury\22005\13-SHEETS\DGN\Typ-Pvmt-Mark\22005_CR 20 MRK (4).dgn
Modified By: Mark 1 2024 8:44:11 AM J Dolan
Saved By: Mark 1 2024 8:44:19 AM J Dolan
Plotted By: Mark 1 2024 8:45:16 AM J Dolan



37	Pavement Message Marking, Paint, Lane Indication Arrow
38	Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.
40	Line, Paint, Solid, White, 4 IN.
41	Line, Paint, Solid, Yellow, 4 IN.
45	Transverse Marking, Paint, Stop Line, White 24 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-B'
STA. 203+00 TO STA. 215+00

DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			

NO.	REVISION	BY	DATE

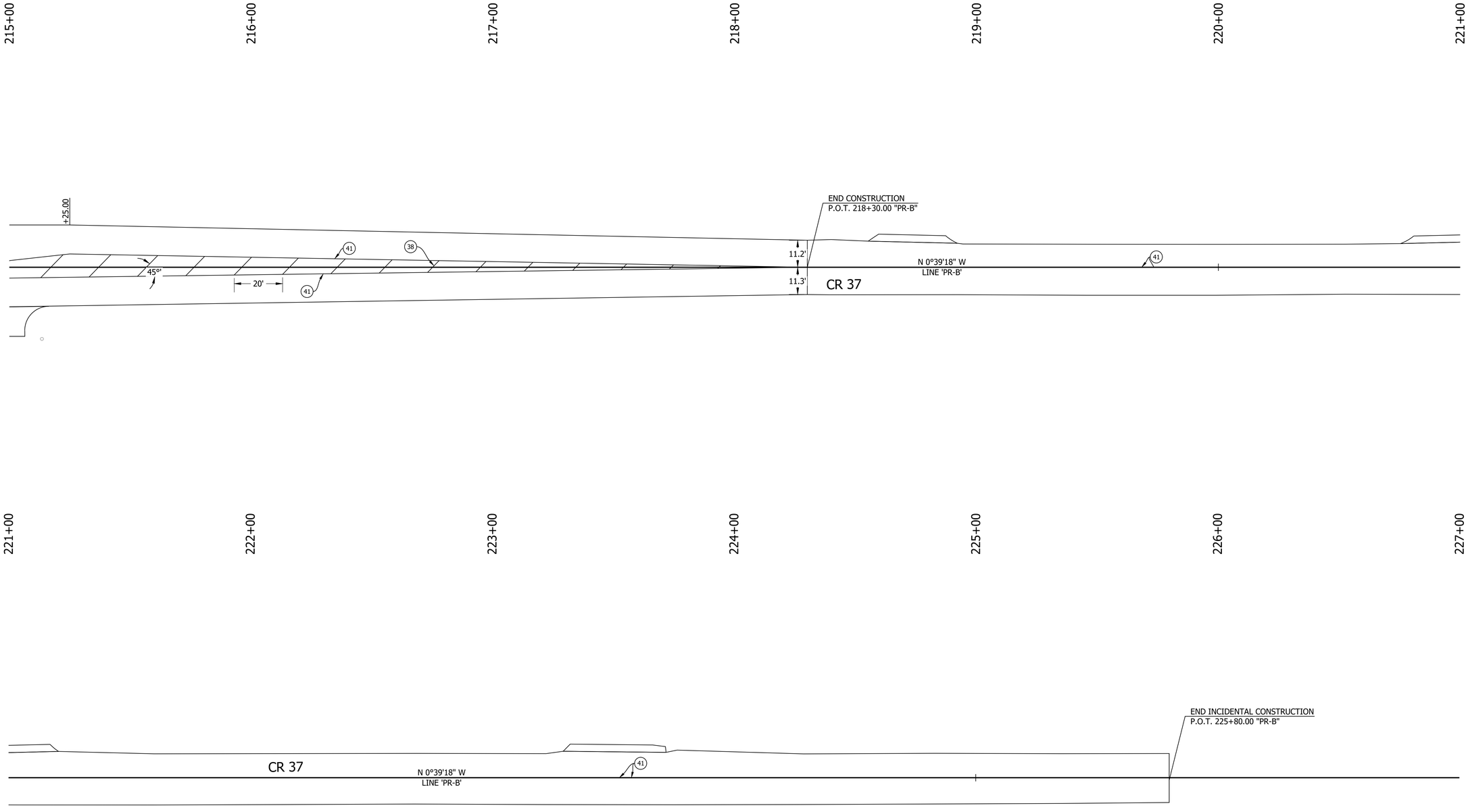
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 40
OF 101

File Name: X:\Projects\Middlebury\2022\11.ENGR\CAD\Sheets\Intro\22-0046 MIN CR 37 Imp - 11" SMS_CR 37 MIN (1)
Modified By: Barbara Stutzman
Last Saved By: Barbara Stutzman
Plotted By: Barbara Stutzman
Plotted On: Mar 5, 2024 8:42:27 AM



(38) Transverse Marking, Paint, Crosshatch Line, Yellow, 12 IN.

(41) Line, Paint, Solid, Yellow, 4 IN.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

PAVEMENT MARKINGS LINE 'PR-B'
STA. 215+00 TO STA. 227+00

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

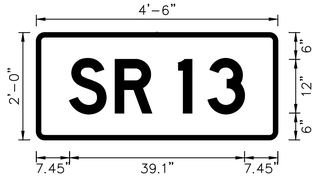
Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 41
OF 101

File Name: X:\Projects\Middlebury\2022\11\22005\Civil\Design\Roadway\13-SMA MRK CR 37.dwg - 13-SMA_CR 37 MRK (2)
Modified By: Barbara Swihart Stutzman
Last Modified: Jan 30, 2024 - 2:27 PM
Saved By: Barbara Swihart Stutzman
Plotted: Jan 30, 2024 - 2:27 PM
Plot Scale: 1:20 H & V
Plot By: Barbara Swihart Stutzman

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	4'-6" x 2'-0"
BORDER WIDTH	1"
CORNER RADIUS	1.88"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

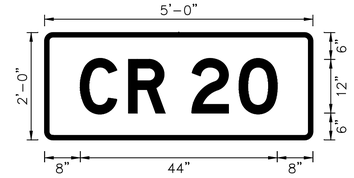
SYMBOL	ROT	X	Y	WID	HT

Panel Style: Overhead Street Name 12-9in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
S	R		1	3																	D 2000
7.4	17.6	25.8	31.8	38.4																39.1	12

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	5'-0" x 2'-0"
BORDER WIDTH	1"
CORNER RADIUS	1.88"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

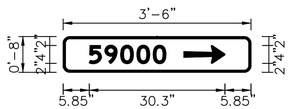
SYMBOL	ROT	X	Y	WID	HT

Panel Style: Overhead Street Name 12-9in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
C	R		2	0																	D 2000
8	18.8	26.9	32.9	43.5																44	12

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	3'-6" x 0'-8"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

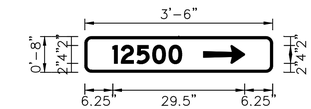
SYMBOL	ROT	X	Y	WID	HT
	270	27	2	4	9.2

Panel Style: Street Name 4-3in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
5	9	0	0	0																	D 2000
5.8	9.3	12.9	16.5	20.1																17.2	4

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	3'-6" x 0'-8"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
	270	27	2	4	9.2

Panel Style: Street Name 4-3in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE
1	2	5	0	0																	D 2000
6.7	8.6	12.1	15.6	19.3																15.4	4

File Name: U:\Projects\P-Jobs\22005\Engineering\CAD\Sheets\Sheet01\03-SIGN DETAILS.dgn
Date/Time: Thursday, January 25, 2024 3:57:54 PM
Design: JRM
Created By: JRM
Modified By: BSS
Plotted By: BSS

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

SIGN DETAILS

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: N/A			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

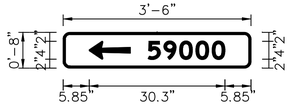
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 42
OF 101

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	3'-6" x 0'-8"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

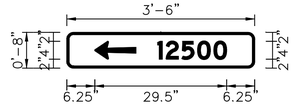
SYMBOL	ROT	X	Y	WID	HT
	90	5.8	2	4	9.2

Panel Style: Street Name 4-3in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES/SIZE
5	9	0	0	0																D 2000
19	22.5	26.1	29.7	33.3															17.2	4

SIGN DETAIL
1:20



SIGN NUMBER	name
WIDTH x HGHT.	3'-6" x 0'-8"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
	90	6.3	2	4	9.2

Panel Style: Street Name 4-3in.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																			LENGTH	SERIES/SIZE
1	2	5	0	0																D 2000
20.3	22.2	25.7	29.3	32.9															15.4	4

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

SIGN DETAILS

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: N/A			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

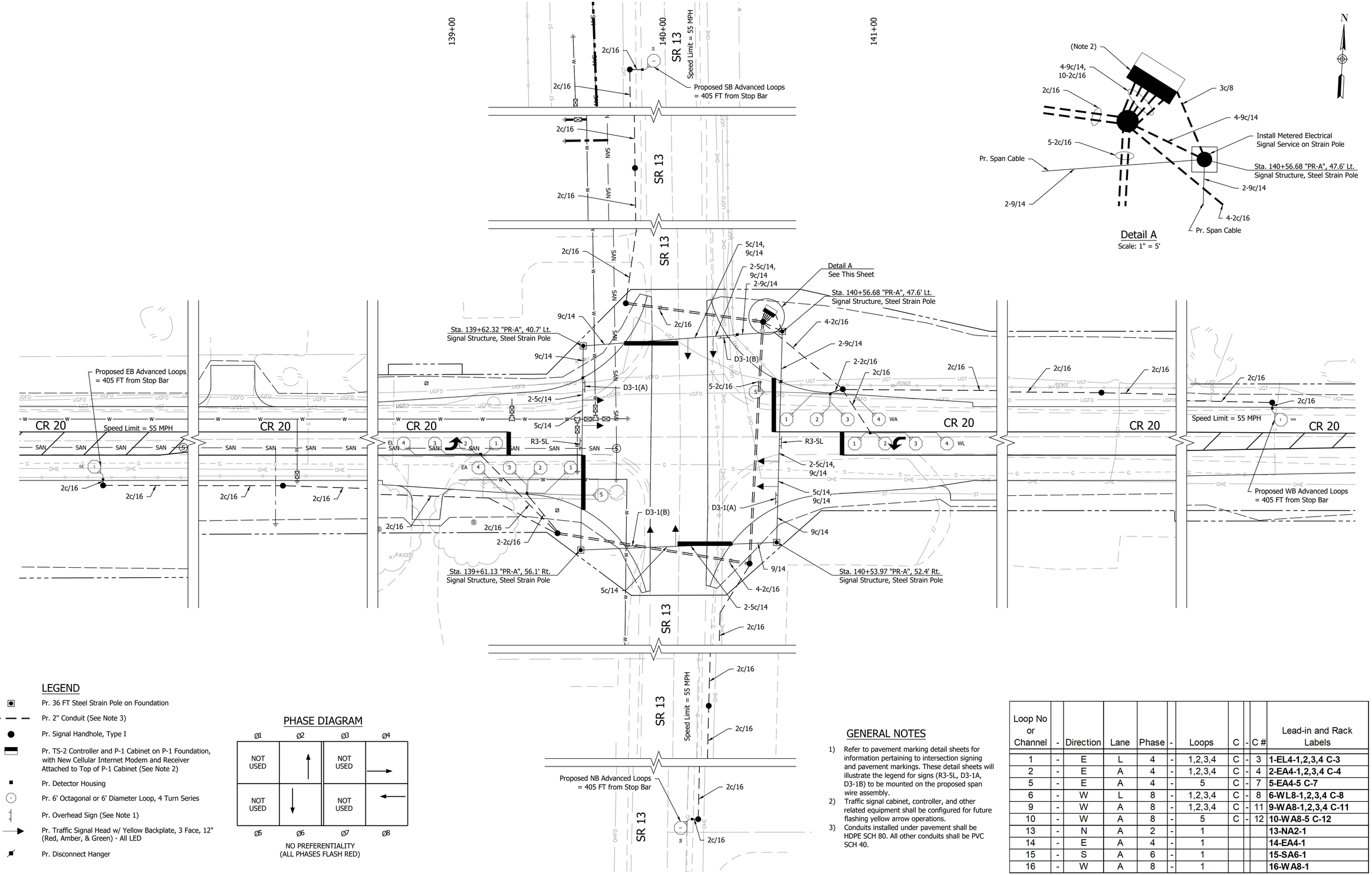
BARBARA K. SWIHART STUTZMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 43
OF 101

File Name: X:\Projects\Middlebury IN\22005\Drawings\MOT\01-SIGN Signs.dwg - Signs (2)
Modified By: Jeffrey
Plotted: February 20, 2024 10:53:51 PM
Plotted By: Jeffrey
Saved: March 7, 2024 8:08:36 AM
Saved By: Mackey, Jeff



Detail A
Scale: 1" = 5'

LEGEND

- Pr. 36 FT Steel Strain Pole on Foundation
- Pr. 2" Conduit (See Note 3)
- Pr. Signal Handhole, Type I
- Pr. TS-2 Controller and P-1 Cabinet on P-1 Foundation, with New Cellular Internet Modem and Receiver Attached to Top of P-1 Cabinet (See Note 2)
- Pr. Detector Housing
- Pr. 6' Octagonal or 6' Diameter Loop, 4 Turn Series
- Pr. Overhead Sign (See Note 1)
- Pr. Traffic Signal Head w/ Yellow Backplate, 3 Face, 12" (Red, Amber, & Green) - All LED
- Pr. Disconnect Hanger

PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
NOT USED	↑	NOT USED	→
NOT USED	↓	NOT USED	←
Ø5	Ø6	Ø7	Ø8

NO PREFERENTIALITY
(ALL PHASES FLASH RED)

GENERAL NOTES

1) Refer to pavement marking detail sheets for information pertaining to intersection signing and pavement markings. These detail sheets will illustrate the legend for signs (R3-5L, D3-1A, D3-1B) to be mounted on the proposed span wire assembly.
2) Traffic signal cabinet, controller, and other related equipment shall be configured for future flashing yellow arrow operations.
3) Conduits installed under pavement shall be HDPE SCH 80. All other conduits shall be PVC SCH 40.

Loop No or Channel	-	Direction	Lane	Phase	-	Loops	C	-	C #	Lead-in and Rack Labels
1	-	E	L	4	-	1,2,3,4	C	-	3	**1-EL4-1,2,3,4 C-3**
2	-	E	A	4	-	1,2,3,4	C	-	4	**2-EA4-1,2,3,4 C-4**
5	-	E	A	4	-	5	C	-	7	**5-EA4-5 C-7**
6	-	W	L	8	-	1,2,3,4	C	-	8	**6-WL8-1,2,3,4 C-8**
9	-	W	A	8	-	1,2,3,4	C	-	11	**9-WA8-1,2,3,4 C-11**
10	-	W	A	8	-	5	C	-	12	**10-WA8-5 C-12**
13	-	N	A	2	-	1				**13-NA2-1**
14	-	E	A	4	-	1				**14-EA4-1**
15	-	S	A	6	-	1				**15-SA6-1**
16	-	W	A	8	-	1				**16-WA8-1**

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

SIGNAL PLAN
SR 13 AND CR 20

DRAWN: NMN CHK'D: TWK
DESIGNED: NMN APPRV'D: TWK
DATE: 9/14/2023
HORIZ. SCALE: 1" = 20'
VERT. SCALE: N/A
PROJECT NUMBER 22005

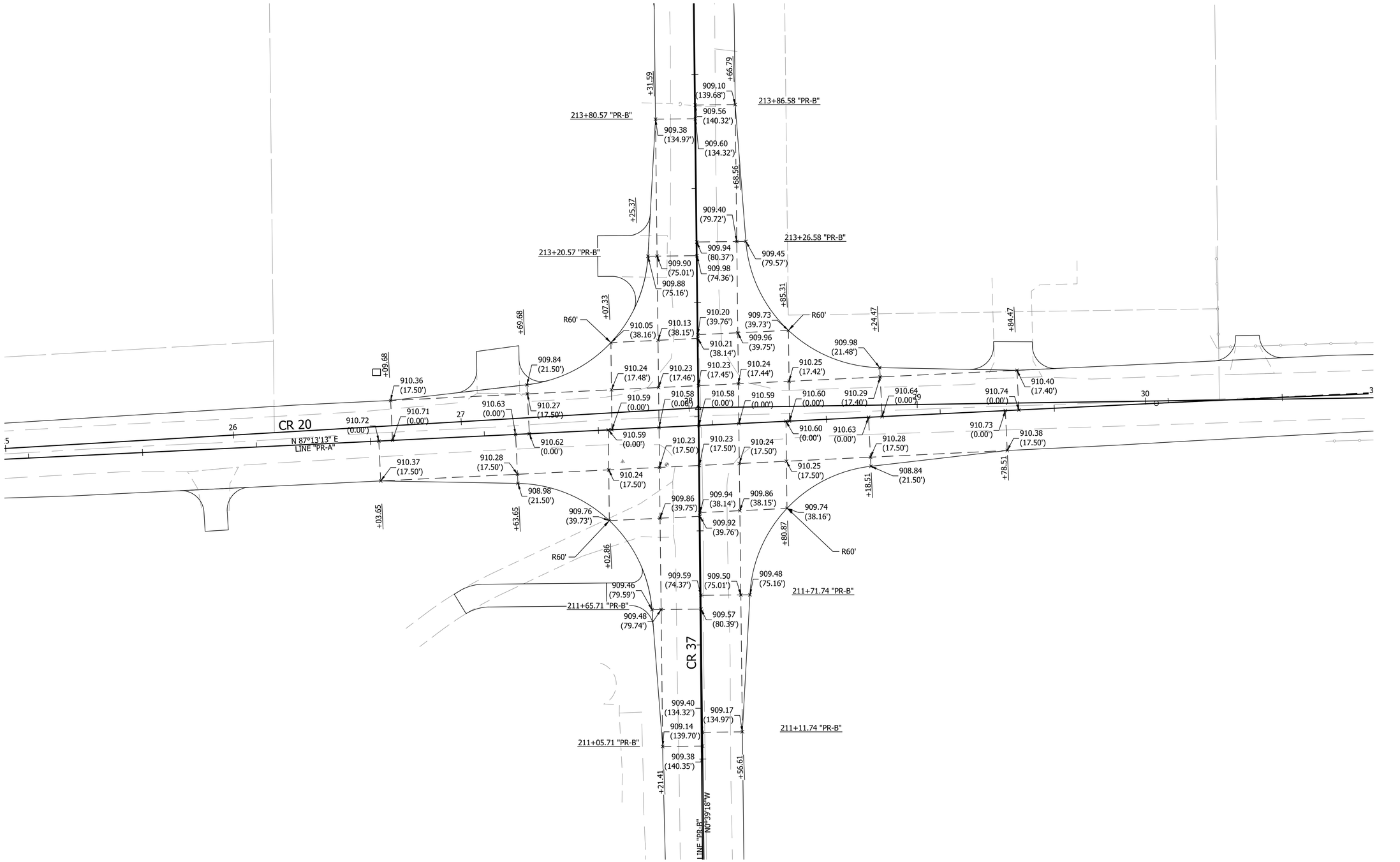
NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			

NATHAN M. NOHREN REGISTERED PE11400421 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 44
OF 101

File Name: I:\Indianapolis\Projects\22005\CAD\Sig\Plan\Middleton\17-3045 Signal Imp - 13 1&4L CR 20 Signal
Date/Time: June 9, 2023 9:29:29 AM
Plotted By: Nathan M. Nohren
Xrefs: C:\Users\nnohren\AppData\Local\Temp\AcPublish_17-3045\Middleton 17-3045 Signal Imp - 13 1&4L CR 20 Signal.dwg



Note: Stations and offsets described from Line "PR-A" unless otherwise noted.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

SPOT ELEVATION DETAILS
CR 20 & CR 37

DRAWN: DJG	CHK'D: BSS	PROJECT NUMBER	22005
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 20'			
VERT. SCALE: 1" = 20'			

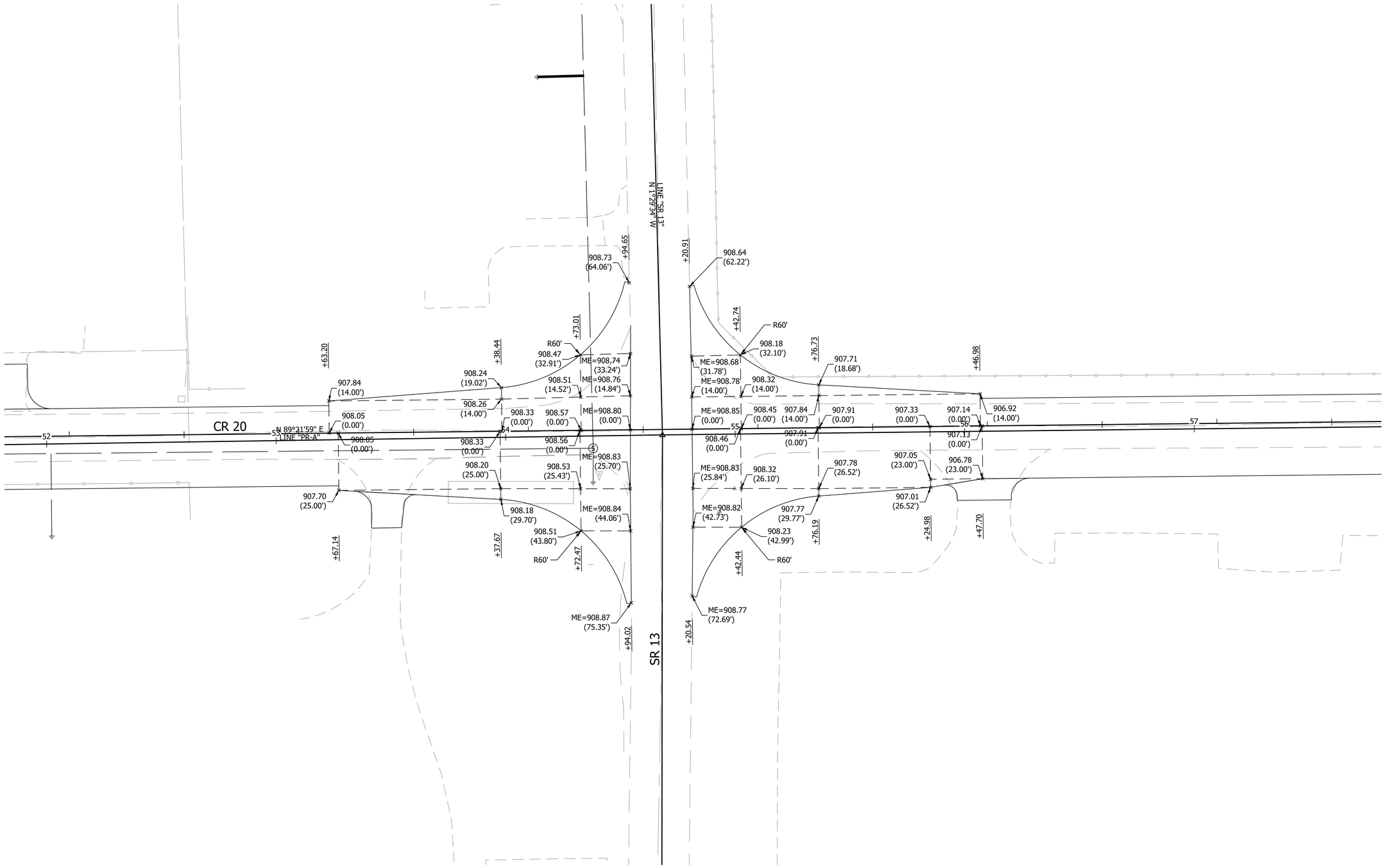
NO.	REVISION	BY	DATE

BARBARA L. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 45
OF 101

File Name: X:\Projects\Projects\115\22005\Admin\CIVIL\22-3445 Spot Elevations.dwg - LY: 3445_CR 20 & CR 37 ex
Modified By: James | 1/30/2024 8:53:29 AM | mstelle
Plotted By: Martin | 1/30/2024 8:57:31 AM | Martin Stelle



Note: Stations and offsets described from Line "PR-A" unless otherwise noted.

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

SPOT ELEVATION DETAILS
CR 20 & SR 13

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 20'	
VERT. SCALE: 1" = 20'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 46
OF 101

File Name: M:\Projects\Projects\22005\CAD\Civil\Sheets\22005121-SHEET-SPOT ELEVATIONS.dwg - 121-SHEET-SPOT ELEVATIONS
Plotted: Jan 30, 2024 - 2:29:54 PM
Plotted By: Jeremy T. Mellady
Layout: 121-SHEET-SPOT ELEVATIONS

213+00

App. Exist. R/W

App. Exist. R/W

STR. NO. 4
+07.04 "PR-A"

30' R/W

P.I. 34+02.10 "B"
P.I. 28+03.99 "A"

114+00

115+00

116+00

Line "PR-A"

Line "A"

PC 115+44.76

CR 20

Line "A"

Line "PR-A"

910.70

910.51

910.60

910.38

909.84

11.50' Offset
Prop. EOP To Basin Top

P.O.T. 212+46.16 "PR-B"
P.O.T. 113+44.10 "PR-A"

Line "B"

Line "PR-B"

R/W

+88.39 "A"
30.00'

Const. Limits

Ditch Centerline

Temp. R/W For Clearing

909.74

+91.17 "A"
39.91'

R/W

212+00

Drainage Basin #1
Bottom of Basin - 904.0
Calc'd Top of Basin - 907.0
Actual Top of Basin - 908.0
Storage Volume Provided - 14,536 cft
Freeboard = 1.0'

Const. Limits

10.00' Temp. R/W

5' Wide Berm
@ 908.0

Temp. R/W For Clearing

R/W

12.00' Offset
R/W To Basin Top

909.48

Const. Limits

100' R/W

5' Wide Berm
@ 908.0

+02.28 "B"
35.00'

12.00' Offset
R/W To Basin Top

Const. Limits

+63.32 "A"
100.00'

Temp. R/W For Clearing

+92.33 "B"
44.07'

+65.93 "A"
110.00'

10.00' Temp. R/W

CR 37

909.17

R/W

Temp. R/W For Clearing

Const. Limits

211+00

EXCEPTION AIII
D.R. 97-006457
D.R. 93-002327

SEC. 27, T37, R7E
MIDDLEBURY TWP.
ELKHART CO.

File Name:
K:\Projects\Final\22005\125-SMS\ZACHAry\DWG\31-3A6-Basin Detail.dwg - Basin Detail
Plotted By:
Plot Date:
March 1, 2024 6:25:26 PM

LOCHMUELLER GROUP
112 West Jefferson Boulevard, Suite 500
South Bend, Indiana 46601
PHONE: 574.334.5460
TOLL FREE: 800.423.7411

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

BASIN DETAIL

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 10'			
VERT. SCALE: N/A			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

DEBRA K. SMITHART STUTSMAN
REGISTERED
No. PE10911254
STATE OF INDIANA
PROFESSIONAL ENGINEER

Debra Smithart Stutsman Lochmueller Group, Inc.

SHEET 47
OF 101

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	JOINTED REINFORCED CONCRETE PAVEMENT, 12 IN.	QC/QA-PCCP, 12 IN.	HMA FOR APPROACHES, TYPE C	WIDENING WITH HMA, TYPE C	HMA MATERIALS						HMA MATERIALS				COMPACTED AGGREGATE NO. 53 FOR SHOULDERS	COMPACTED AGGREGATE NO. 53 FOR SUBBASE, 4IN.	DENSE GRADED SUBBASE	PCCP FOR APPROACHES, 6 IN.	SUBGRADE TREATMENT, TYPE II	MILLING, ASPHALT, 1 1/2 IN.	MILLING, ASPHALT, 4 IN.	MILLING, TRANSITION	REMARKS
						COMPACTED AGGREGATE BASE	HMA	CONCRETE												HMA SURFACE, TYPE C, 9.5 mm	HMA SURFACE, TYPE C, 9.5 mm	HMA INTERMEDIATE, TYPE C, 19.0 mm	HMA BASE, TYPE C, 25.0 mm	HMA BASE, TYPE C, 25.0 mm	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUED ASPHALT SEALANT	ASPHALT FOR TACKCOAT									
									1	2	3	4	CUT	FILL				LBS. PER SYS		LBS. PER SYS																	
									660	660	165	220	275	385																								
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CYS	CYS	FT		SYS	TON	TON	TON		TON	TON	TON	LFT	LFT	LFT	TON	TON	CYS	CYS	SYS	SYS	SYS	SYS	SYS	
Phase 1																																					
CR 20 - Line "PR-A"																																					
107+12.00 to 107+62.00	Incidental	20.2	50.0																	9.3					100.0	100.0	100.0	0.04	28.5					112.2			
107+62.00 to 109+00.00	Mainline	20.0	138.0																	25.3		42.1	59.0		276.0	276.0	276.0	0.31	78.7	34.1							
109+00.00 to 113+05.95	Mainline	22.5	406.0																	83.9		139.8	195.7		811.9	811.9	811.9	1.04	231.5	113.0							
113+05.95 to 113+85.50	Mainline	24.0	79.5																	17.5		29.2	40.9		159.1	159.1	159.1	0.22	45.4	23.6							
113+85.50 to 115+44.69	Mainline	21.9	159.2																	31.9		53.2	74.4		318.4	318.4	318.4	0.39	90.8	43.0							
115+44.69 to 119+17.44	Mainline	19.7	372.8																	67.5		112.4	157.4		745.5	745.5	745.5	0.83	212.6	90.8							
119+17.44 to 128+45.86	Mainline	20.0	928.4																	170.2		283.7	397.2		1856.8	1856.8	1856.8	2.10	529.5	229.2							
128+45.86 to 129+03.95	Mainline	20.0	58.1																	10.6		17.7	24.8		116.2	116.2	116.2	0.13	33.1	14.3							
129+03.95 to 139+14.42	Mainline	20.8	1010.5																	192.6		321.0	449.4		2020.9	2020.9	2020.9	2.38	576.3	259.4							
139+14.42 to 139+94.46	Mainline	15.9	80.0																	11.7		19.4	27.2		160.1	160.1	160.1	0.14	45.7	15.7							
Phase 2																																					
CR 20 - Line "PR-A"																																					
107+62.00 to 112+09.71	Mainline Widening LT	3.7	447.7																68.5	15.1					447.7	447.7	447.7	0.19		31.4							
107+62.00 to 112+03.65	Mainline Widening RT	2.3	441.7																45.7	9.4					441.7	441.7	441.7	0.12		23.6							
112+09.71 to 112+69.77	Mainline Widening LT	5.3	60.1																12.7	2.9					60.1	60.1	60.1	0.04		5.4							
112+03.65 to 112+63.49	Mainline Widening RT	9.5	59.8															22.0		5.2					59.8	59.8	59.8	0.06		8.5							
112+69.77 to 113+24.29	Mainline Widening LT	5.9	54.5															12.8		2.9					54.5	54.5	54.5	0.04		5.3							
112+63.49 to 113+31.07	Mainline Widening RT	10.6	67.6															27.5		6.6					67.6	67.6	67.6	0.08		10.5							
113+64.81 to 114+24.17	Mainline Widening LT	7.7	59.4															17.8		4.2					59.4	59.4	59.4	0.05		7.1							
113+54.90 to 114+18.51	Mainline Widening RT	10.6	63.6															25.8		6.2					63.6	63.6	63.6	0.08		9.9							
114+24.17 to 114+84.38	Mainline Widening LT	7.3	60.2															17.2		4.0					60.2	60.2	60.2	0.05		6.9							
114+18.51 to 114+78.51	Mainline Widening RT	9.5	60.0																22.0	5.2					60.0	60.0	60.0	0.06		8.5							
114+84.38 to 116+24.80	Mainline Widening LT	6.7	140.4																37.3	8.7					140.4	140.4	140.4	0.11		15.2							
114+78.51 to 119+30.46	Mainline Widening RT	5.4	451.9																97.4	22.3					451.9	451.9	451.9	0.28		41.2							
116+24.80 to 119+30.39	Mainline Widening LT	4.9	305.6																60.2	13.6					305.6	305.6	305.6	0.17		25.9							
119+30.39 to 128+45.86	Mainline Widening LT	1.8	915.5																77.1	15.1					915.5	915.5	915.5	0.19		42.9							
119+30.46 to 127+61.94	Mainline Widening RT	1.2	831.5																52.8	9.4					831.5	831.5	831.5	0.12		33.2							
127+61.94 to 130+75.00	Mainline Widening RT	4.8	313.1																61.2	13.9					313.1	313.1	313.1	0.17		26.3							
130+75.00 to 138+67.14	Mainline Widening RT	12.1	792.1																351.4	87.7		150.1	216		792.1	792.1	792.1	1.09		137.9							
128+45.86 to 138+63.20	Mainline Widening LT	2.0	1017.3																40.3	18.7					1017.3	1017.3	1017.3	0.23		50.2							
138+63.20 to 139+94.65	Mainline Widening LT	7.8	131.4															40.0		9.4					131.4	131.4	131.4	0.12		15.9							
138+67.14 to 139+94.02	Mainline Widening RT	23.5	126.9															111.6		27.3					253.8	253.8	253.8	0.34		39.9							
140+20.91 to 141+46.98	Mainline	57.6	126.0																	66.6		112.2	158.4		504.0	504.3	504.0	0.82	71.9	95.9							
141+46.98 to 143+45.11	Mainline	35.0	198.1																	63.6		108.0	153.3		594.4	594.4	594.4	0.79	113.0	95.4							
143+45.11 to 148+65.00	Mainline	29.5	520																	140.6		239.6	341.0		1559.7	1559.7	1559.7	1.74	296.5	215.0							
148+65.00 to 149+15.00	Incidental	20.2	50.0																	9.3					100.0	100.0	100.0	0.04	28.5					112.2			
Table 1 Total																		274.7	926.6	1188.1		1628.6	2295.0		15850.3	15850.5	15850.3	14.5	2382.1	1775.0				224.4			

File Name: M:\Projects\Proj2022\115 (DPG)\CAD\Sheets\Plan\115 SAA Sheet Tables.dwg - Approach Table
Plotted: March 5, 2024 2:44:28 PM
Last Saved By: March 5, 2024 2:43:28 PM

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	JOINTED REINFORCED CONCRETE PAVEMENT, 12 IN.	QC/QA-PCCP, 12 IN.	HMA FOR APPROACHES, TYPE C	WIDENING WITH HMA, TYPE C	HMA MATERIALS					HMA MATERIALS				COMPACTED AGGREGATE NO. 53 FOR SHOULDERS	COMPACTED AGGREGATE NO. 53 FOR SUBBASE, 4IN.	DENSE GRADED SUBBASE	PCCP FOR APPROACHES, 6 IN.	SUBGRADE TREATMENT, TYPE II	MILLING, ASPHALT, 1 1/2 IN.	MILLING, ASPHALT, 4 IN.	MILLING, TRANSITION	REMARKS
						COMPACTED AGGREGATE	HMA	CONCRETE												HMA SURFACE, TYPE C, 9.5 mm	HMA SURFACE, TYPE C, 9.5 mm	HMA INTERMEDIATE, TYPE C, 19.0 mm	HMA BASE, TYPE C, 25.0 mm	HMA BASE, TYPE C, 25.0 mm	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUIED ASPHALT SEALANT	ASPHALT FOR TACKCOAT									
									1	2	3	4								LBS. PER SYS															
																		660	660	165	220	275	385	495												
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CUT CYS	FILL CYS	FT		SYS	TON	TON	TON	TON	TON	TON	TON	LFT	LFT	LFT	TON	TON	CYS	CYS	SYS	SYS	SYS	SYS	SYS	
CR 37 - Line "PR-B"																																				
206+45.00 to 206+95.00	Incidental	21.3	50.0																	9.8					100.0	100.0	100.0	0.04	28.5	13.1				118.3			
206+95.00 to 212+17.09	Mainline	20.0	522.1																	95.9		159.9	223.8		1044.2	1044.2	1044.2	1.19	297.8	129.2							
206+95.00 to 211+05.71	Mainline Widening LT	4.8	410.7																79.3	18.0					410.7	410.7	410.7	0.22		34.3							
206+95.00 to 209+99.91	Mainline Widening RT	4.8	304.9																59.0	13.3					304.9	304.9	304.9	0.16		25.5							
211+05.71 to 211+65.87	Mainline Widening LT	9.5	60.2															22.0		5.2					60.2	60.2	60.2	0.06		8.5							
209+99.91 to 211+11.74	Mainline Widening RT	7.5	111.8																32.8	7.7					111.8	111.8	111.8	0.10		13.1							
211+11.74 to 211+71.61	Mainline Widening RT	9.5	59.9															22.0		5.2					59.9	59.9	59.9	0.06		8.5							
211+65.87 to 212+24.19	Mainline Widening LT	25.5	58.3															55.7		13.7					116.6	116.6	116.6	0.17		19.8							
211+71.61 to 212+25.07	Mainline Widening RT	24.4	53.5															48.8		12.0					106.9	106.9	106.9	0.15		17.4							
212+17.09 to 212+60.24	Mainline	144.7	19.1																	25.3		8.5	11.8		38.1	38.1	38.1	0.31	17.8	34.1							
212+60.24 to 212+89.94	Mainline	33.0	29.7																	9.0		15.0	20.9		59.4	59.4	59.4	0.11	23.8	12.1							
212+66.90 to 213+20.57	Mainline Widening LT	23.0	53.7															46.3		11.3					107.3	107.3	107.3	0.14		16.6							
212+68.29 to 213+26.53	Mainline Widening RT	24.5	58.2															53.4		13.1					116.5	116.5	116.5	0.16		19.0							
212+89.94 to 218+30.00	Mainline	20.0	540.1																	99.0		165.0	231.1		1080.1	1080.1	1080.1	1.22	308.0	133.4							
213+20.57 to 213+80.57	Mainline Widening LT	9.5	60.0															22.0		5.2					60.0	60.0	60.0	0.06		8.5							
213+26.53 to 213+86.58	Mainline Widening RT	9.5	60.1															22.0		5.2					60.1	60.1	60.1	0.06		8.5							
213+80.57 to 215+24.90	Mainline Widening LT	7.5	144.3																42.4	9.9					144.3	144.3	144.3	0.12		16.9							
213+86.58 to 218+30.00	Mainline Widening RT	4.7	443.4																83.9	18.9					443.4	443.4	443.4	0.23		36.5							
215+24.90 to 218+30.00	Mainline Widening LT	4.3	305.1																54.2	12.2					305.1	305.1	305.1	0.15		23.9							
218+30.00 to 225+80.00	Incidental	20.3	750																	139.6				418.7	1500.0		1500.0	1.15	427.8						1691.7		
225+80.00 to 226+30.00	Incidental	20.3	50																		12.4														112.8	
Driveways																																				
PR-A																																				
109+50.34	Class II Drive RT	21.9	17.0																											6.9	41.4	41.4				
109+55.02	Class II Drive LT	15.8	18.0																											5.3	31.6	31.6				
111+30.81	Class II Drive RT	22.9	10.0																											4.2	25.4	25.4				
112+57.65	Class II Drive LT	19.5	19.0																											6.9	41.2	41.2				
114+83.33	Class II Drive LT	15.1	17.0																											4.8	28.5	28.5				
115+86.01	Class II Drive LT	14.6	10.4																											2.8	16.9	16.9				
118+07.61	Class II Drive LT	18.9	48.0																											16.8	100.8	100.8				
119+30.85	Class IV Drive LT	18.6	7.0																											2.4	14.5	14.5				
120+63.51	Class II Drive RT	16.0	11.0																											3.3	19.6	19.6				
121+32.66	Class II Drive RT	13.7	22.0																											5.6	33.5	33.5				
124+38.66	Class II Drive LT	29.0	20.0																											10.7	64.4	64.4				
125+19.09	Class II Drive LT	19.5	14.0																											5.1	30.3	30.3				
129+95.39	Class II Drive LT	12.9	24.0																											5.7	34.4	34.4				
Table 2 Total																		292.2	351.6	541.9		348.3	906.4		6229.6	4729.6	6229.6	5.9	1103.7	579.1	80.4	482.5	482.5	118.3	1691.7	112.8	

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

APPROACH TABLE

DRAWN: DJG CHK'D: BJS
DESIGNED: JRM APPRV'D: BSS
DATE: 01/30/2024
HORIZ. SCALE: N/A
VERT. SCALE: N/A
PROJECT NUMBER 22005

NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Lochmueller Group, Inc.

SHEET 49
OF 101

Plot Date: Monday, March 4, 2024 2:44:28 PM | BJSwihart
Last Modified: Monday, March 4, 2024 9:41:07 PM | BJSwihart
File Name: I:\Projects\Par\LRS\115 LRS\DGN\Sheets\Par115-3464 Main Plansheets.dwg - Approach Tools (2)

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	JOINTED REINFORCED CONCRETE PAVEMENT, 12 IN.	QC/QA-PCCP, 12 IN.	HMA MATERIALS		HMA MATERIALS																		REMARKS
						COMPACTED AGGREG	HMA	CONCRE	1	2	3	4	CUT	FILL				HMA FOR APPROACHES, TYPE C	WIDENING WITH HMA, TYPE C	HMA SURFACE, TYPE C, 9.5 mm	HMA SURFACE, TYPE C, 9.5 mm	HMA INTERMEDIATE, TYPE C, 19.0 mm	HMA BASE, TYPE C, 25.0 mm	HMA BASE, TYPE C, 25.0 mm	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUIED ASPHALT SEALANT	ASPHALT FOR TACKCOAT	COMPACTED AGGREGATE NO. 53 FOR SHOULDERS	COMPACTED AGGREGATE NO. 53 FOR SUBBASE, 4IN.	DENSE GRADED SUBBASE	PCCP FOR APPROACHES, 6 IN.	SUBGRADE TREATMENT, TYPE II	MILLING, ASPHALT, 1 1/2 IN.	MILLING, ASPHALT, 4 IN.	MILLING, TRANSITION	
																		LBS. PER SYS		LBS. PER SYS																	
																				165	220	275	385																
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CYS	CYS	FT		SYS	TON	TON	TON	TON	TON	TON	TON	LFT	LFT	LFT	TON	TON	CYS	CYS	SYS	SYS	SYS	SYS	SYS	SYS	
130+80.73	Class II Drive LT	13.1	21.0																												5.1	30.6	30.6				
132+89.24	Class II Drive LT	20.2	18.0																												6.7	40.4	40.4				
134+54.66	Class II Drive LT	20.7	18.0																												6.9	41.4	41.4				
137+21.61	Class II Drive LT	21.4	21.0																												8.3	49.9	49.9				
138+47.55	Class II Drive RT	16.2	14.0																												4.2	25.2	25.2				
141+48.28	Class IV Drive RT	9.7	24.0																												4.3	25.9	25.9				
144+04.63	Class IV Drive RT	15.5	23.0																												6.6	39.6	39.6				
145+62.55	Class II Drive LT	13.4	16.0																												4.0	23.8	23.8				
147+68.98	Class II Drive RT	18.5	22.0																												7.5	45.2	45.2				
PR-B																																					
211+72.60	Class II Drive LT	21.9	10.0																												4.1	24.3	24.3				
213+20.87	Class II Drive LT	25.8	18.0																												8.6	51.6	51.6				
214+48.74	Class II Drive LT	16.6	19.0																												5.8	35.0	35.0				
214+96.16	Class II Drive RT	13.9	21.0																												5.4	32.4	32.4				
218+73.36	Class II Drive LT	3.4	28.0																												1.8	10.6	10.6				
220+99.00	Class II Drive LT	3.0	40.0																												2.2	13.3	13.3				
223+49.35	Class II Drive LT	3.0	40.0																												2.2	13.3	13.3				
Table 3 Total																															83.8	502.7	502.7				
Table 1 Totals																		274.7	926.6	1188.0	1628.6	2295.0		15850.3	15850.5	15850.3	14.5	2382.1	1775.0	0.0	0.0	0.0	224.4	0.0	0.0		
Table 2 Totals																		292.2	351.6	541.9	348.3	906.4		6229.6	4729.6	6229.6	5.9	1103.7	579.1	80.4	482.5	482.5	118.3	1691.7	112.8		
Table 3 Totals																		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	83.8	502.7	502.7	0.0	0.0	0.0		
Total																		567.0	1279.0	1730.0	1977.0	3202.0		22080.0	20581.0	22080.0	21.0	3486.0	2355.0	165.0	986.0	986.0	343.0	1692.0	113.0		

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Modified By: Mark 3 2024 1:44:28 PM / BBeltman
Plotted By: Mark 3 2024 1:45:10 PM / Barbara Stutzman - Work

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

APPROACH TABLE

DRAWN: DJG CHK'D: BJS
DESIGNED: JRM APPRV'D: BSS
DATE: 01/30/2024
HORIZ. SCALE: N/A
VERT. SCALE: N/A
PROJECT NUMBER 22005

NO.	REVISION	BY	DATE

BARBARA F. SWIHART STUTZMAN REGISTERED No. PE10911254 STATE OF INDIANA PROFESSIONAL ENGINEER

Barbara Swihart Stutzman

Lochmueller Group, Inc.

SHEET 50
OF 101

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION: STATION	LOCATION: LEFT	LOCATION: CROSS	LOCATION: RIGHT	SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	TOP OF RIM	COVER: MIN	COVER: MAX	FLOW LINE: UP STREAM	FLOW LINE: DOWN STREAM	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL: TYPE	STRUCTURE BACKFILL: CYS	REVETMENT RIPRAP	GEOTEXTILE	VIDEO INSPECTION	PIPE END SECTION	CONNECT TO STR. NUMBER	REMARKS
					IN.			LFT	ELEV.	FT	FT	ELEV.	ELEV.	YR				TYPE	CYS	TONS	SYS	LFT	EA.		
Line PR-A																									
2	112+04.07	X			15	2	Inlet E7	90	909.00			905.00	904.75	75	Abs.	7		2	40					3	
3	112+94.09	X			15	2	Inlet F7	29	909.00			904.75	904.62	75	Abs.	7		2	14					3A	
3A	113+23.00	X			15	2	MH C4	84	910.11			904.62	904.25	75	Abs.	7		2	39					4	
4	114+07.04	X			15	2	Inlet F7	50	909.00			904.25	904.11	75	Abs.	7		2	26			50			North 27' Installed in Phase 2
4A	114+15.70			X	15	2	Pipe	40				904.11	904.00	75	Abs.	7		2	15			40	1	Outlet	
5	112+94.09			X	15	2	Inlet E7	105	908.60			904.50	904.00	75	Abs.	7		2	37			105	1	Outlet	
6	138+88.00	X			15	2	Inlet E7	55	906.69			904.75	904.37	75	Abs.	7		2	10			55			North 17' installed in Phase 2
6A	138+48.80			X	15	2	Pipe	35				904.37	904.06	75	Abs.	7		2	5			35		8	
7	139+50.00			X	15	2	Inlet E7	114	907.25			904.85	904.06	75	Abs.	7		2	26			114		8	
8	138+36.00			X	15	2	Inlet F7	202	906.00			904.06	903.60	75	Abs.	7		2	21			202	1	Outlet	
9	145+00.00			X	15	2	Pipe	64				903.75	903.06	75	Abs.	7		2	7			64	1	10	
10	144+36.00			X	15	2	Inlet F7	91	905.00			903.06	902.83	75	Abs.	7		2	21			91		11	
11	143+46.00			X	15	2	Inlet F7	64	906.13			902.83	902.64	75	Abs.	7		2	14	2	27	64	1	Outlet	
Line PR-B																									
3B	214+28.00	X			15	2	Inlet E7	144	910.00			905.35		75	Abs.	7		2	38			144		3A	

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, PAINT: Solid White 4 IN.	LINE, PAINT: Solid Yellow 4 IN.	LINE, PAINT: Broken White 4 IN.	TRANSVERSE MARKING, PAINT, CROSSHATCH LINE: White 12 IN.	TRANSVERSE MARKING, PAINT, CROSSHATCH LINE: Yellow 12 IN.	TRANSVERSE MARKING, PAINT, STOP LINE: White 24 IN.	TRANSVERSE MARKING, PAINT, STOP LINE: White 24 IN.	PAVEMENT MESSAGE MARKING, PAINT LANE INDICATION ARROW	PAVEMENT MESSAGE MARKING, PAINT, R X R	PAVEMENT MESSAGE MARKING, PAINT ONLY	GROOVING FOR PAVEMENT MARKINGS	Remarks
	LFT	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH	LFT	
CR 20 - Line "PR-A"												
Phase 1												
107+12.00 to 112+67.00		1,150									1,150	
114+25.00 to 139+27.00		5,075									5,075	
CR 20 - Line "PR-A"												
Phase 2												
107+12.00 to 112+67.00	120	3,544			138		33.5	2			3,664	
114+25.00 to 139+27.00	415	9,903			583		68.5	5			10,318	
140+86.00 to 149+15.00	260	2,304			159		36.5	2			2,564	
SR 13 NB and SB							51.0					
CR 37 - Line "PR-B"												
206+45.00 to 212+00.00	100	1,920			139		36.3	2			2,020	
213+25.00 to 225+80.00	120	3,320			139		30.2	2			3,440	
TOTAL	1,016	27,216			1,158		256	13			28,231	

DITCH SUMMARY TABLE

LOCATION: FROM STATION	LOCATION: TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	SODDING: FOR DITCHES	SODDING: FOR MEDIAN	SODDING: FOR SHOULDER BREAK	SODDING: SODDING AT BRIDGE CONE	SODDING: TOTAL SODDING	NURSERY SODDING FOR LAWNS	RIPRAP DITCH
					LFT	SYS	SYS	SYS	SYS	SYS	SYS	TON
115+25.00	115+91.00			X	66							44
124+00.00	127+25.00			x	325	289				289		
128+23.00	129+35.00			x	112	100				100		
146+00.00	147+50.00			x	150	133				133		
Total:										522		44

EARTHWORK SUMMARY

FILL		
Fill Volume - PR-A	994	CYS
Fill Volume - PR-B	190	CYS
Subtotal	**1,183**	**CYS**
15% Swell	177	CYS
Total Fill Volume	**1,361**	**CYS**
EXCAVATION		
Cut Volume - PR-A	4,626	CYS
Cut Volume - PR-B	1,350	CYS
Drainage Basin #1	592	CYS
Subtotal	**6,569**	**CYS**
Less Pav't Removal in PH1	1,235	CYS
Total Common Excavation	**5,334**	**CYS**

SHEET SIGN & POST SUMMARY

SIGN: LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)	GROUND - MOUNTED SIGN AREA (ft^2)	MOUNTED ON PANEL SIGN, AREA (ft^2)	MOUNTED ON PANEL SIGN, AREA (ft^2)	POST: SQUARE 2 1/2" X 2 1/2" - 12 GA. (TYPE 3) UNREINFORCED ANCHOR POST LENGTH (FT.) 1	2	TOTAL	2" X 2" - 12 GA. (TYPE 2) REINFORCED ANCHOR POST LENGTH (FT.) 1	2	TOTAL	2 1/4" X 2 1/4" - 12 GA. (TYPE 1) REINFORCED ANCHOR POST LENGTH (FT.) 1	TOTAL
				0.080"	0.080"	0.100"								
PR-A	111+67.00	W3-1	30 X 30	6.25									10.0	10.0
PR-A	112+90.00	R1-1	30 X 30	6.25									10.0	20.0
PR-A	114+00.00	R1-1	30 X 30	6.25									10.0	30.0
PR-A	115+25.00	W3-1	30 X 30	6.25									10.0	40.0
PR-A	140+00.00	R3-5L	30 X 36		7.50									
PR-A	140+00.00	R3-5L	30 X 36		7.50									
PR-A	140+00.00	D3-1(A)	24 X 54			9.00								
PR-A	140+00.00	D3-1(A)	24 X 54			9.00								
PR-A	140+00.00	D3-1(B)	24 X 60			10.00								
PR-A	140+00.00	D3-1(B)	24 X 60			10.00								
PR-A	140+00.00	Address 5900 RT	8 X 42			2.33								
PR-A	140+00.00	Address 1250 RT	8 X 42			2.33								
PR-A	140+00.00	Address 5900 LT	8 X 42			2.33								
PR-A	140+00.00	Address 1250 LT	8 X 42			2.33								
PR-B	211+00.00	W3-1	30 X 30	6.25									10.0	50.0
PR-B	212+02.00	R1-1	30 X 30	6.25									10.0	60.0
PR-B	212+99.00	R1-1	30 X 30	6.25									10.0	70.0
PR-B	214+25.00	W3-1	30 X 30	6.25									10.0	80.0

MAILBOX APPROACHES

LT./RT.	℄ BOX STATION	DESCRIPTION	WIDTH, W (FT)	ASSEMBLY REQ'D: SINGLE	ASSEMBLY REQ'D: DOUBLE
Lt	109+72	Line "A"		1	
Lt	111+30	Line "A"		1	
Lt	112+41	Line "A"		1	
Lt	114+55	Line "A"		1	
Lt	118+38	Line "A"		1	
Lt	121+53	Line "A"		1	
Lt	124+08	Line "A"		1	
Lt	131+03	Line "A"		1	
Lt	132+68	Line "A"		1	
Lt	134+42	Line "A"		1	
Lt	136+97	Line "A"		1	
Lt	137+00	Line "A"		1	
Lt	139+20	Line "A"		1	
Lt	143+66	Line "A"		1	
Lt	145+69	Line "A"		1	
Lt	147+82	Line "A"		1	
Rt	214+70	Line "B"		1	
Lt	221+27	Line "B"		1	
Lt	223+70	Line "B"		1	
		TOTALS		19	

File Name: I:\Projects\Proj_MIDD\119_DESIGN\Roadway\PH1\Sht\Misc Tables.dwg Plotted By: Plotted On: Xrefs Attached: March 3, 2024 3:44:28 PM | Richard Stutzman, Parsons March 3, 2024 3:46:17 PM | Richard Stutzman, Parsons Structure Data Table

MIDDLEBURY — INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

MISCELLANEOUS TABLES

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: N/A	
VERT. SCALE: N/A	
PROJECT NUMBER 22005	

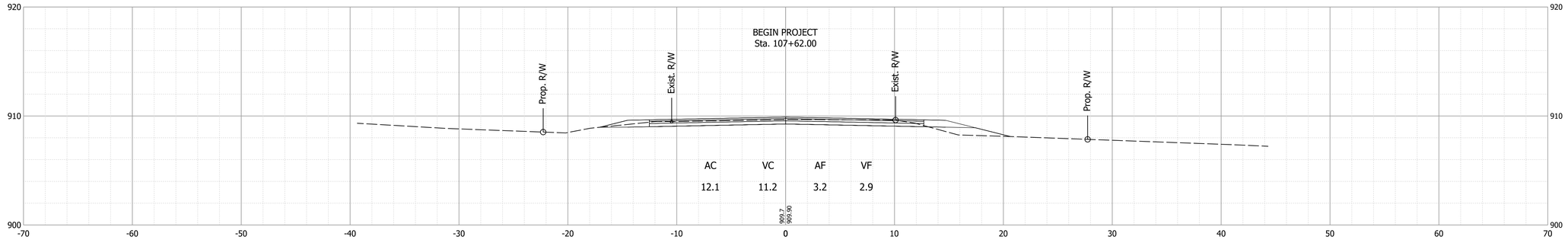
NO.	REVISION	BY	DATE

BARBARA K. SWIHART STUTZMAN — REGISTERED — No. PE10911254 — STATE OF INDIANA — PROFESSIONAL ENGINEER

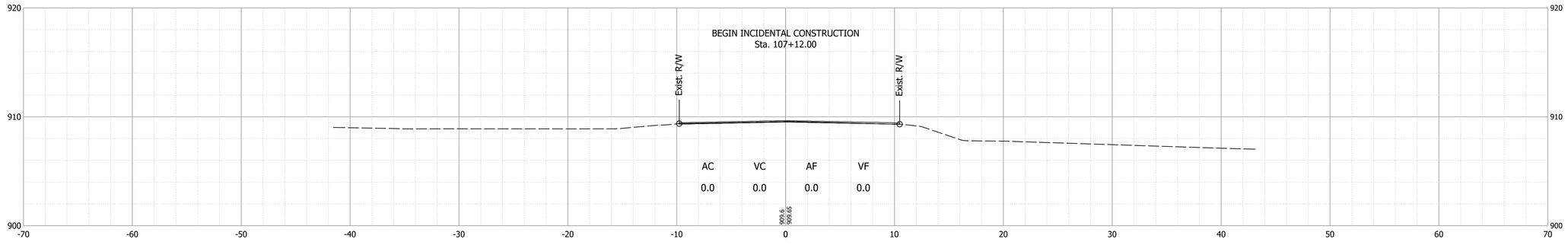
Barbara Swihart Stutzman — Lochmueller Group, Inc.

SHEET 51
OF 101

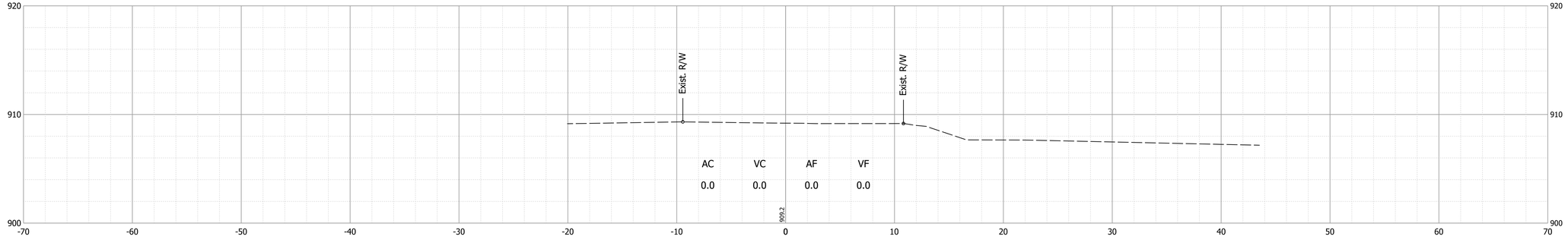
108+00



107+50



107+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

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DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
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VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

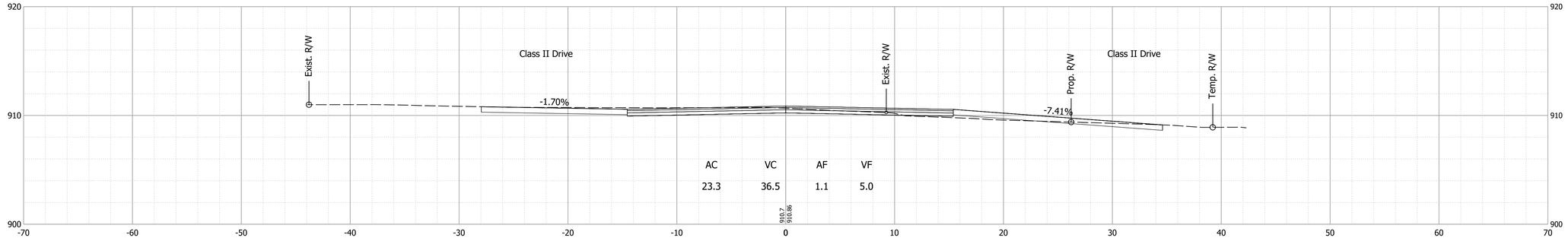
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

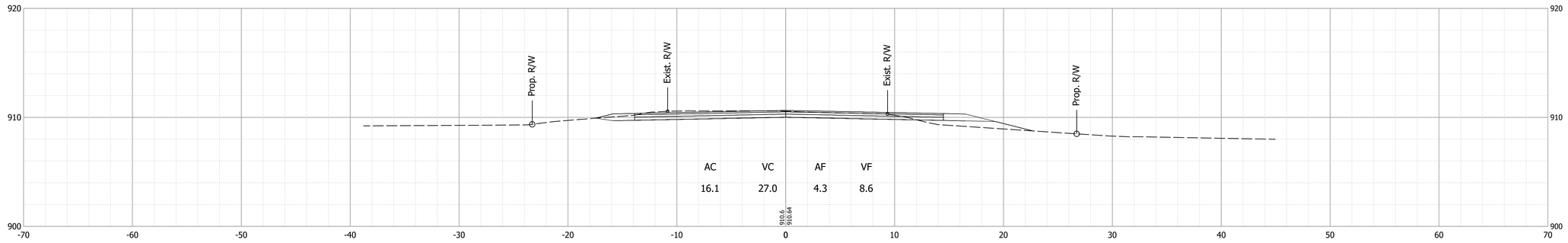
SHEET 52
OF 101

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Plotted By: Mon Jan 1, 2024 9:48 PM
Version By: jmosley

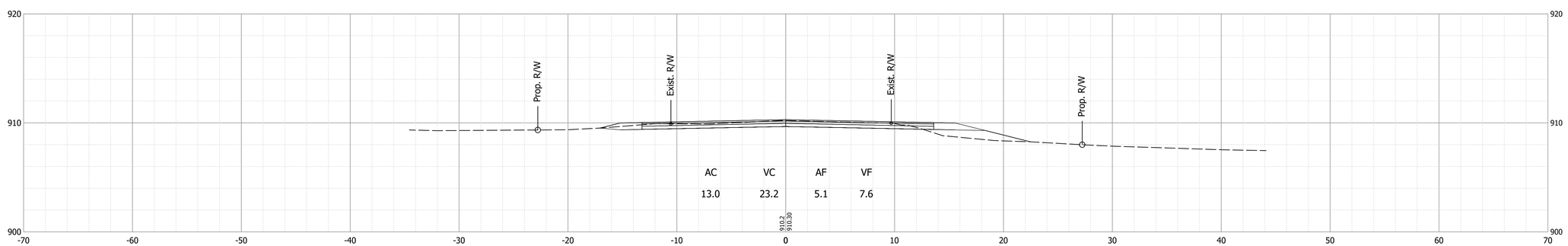
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109+00



108+50



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Saved By: Mon, 1 2024 9:58:45 PM / jmiller
Plotted By:

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

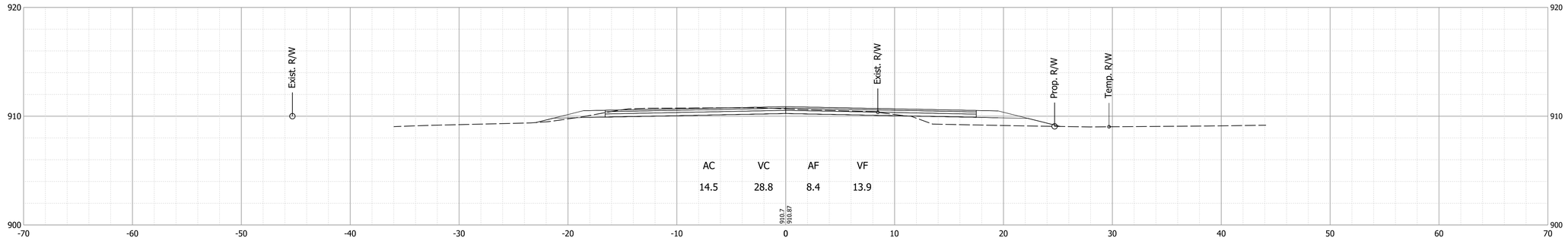
CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS	SHEET	53
DESIGNED: JRM	APPRV'D: BSS	OF	101
DATE: 01/30/2024			
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PROJECT NUMBER 22005			

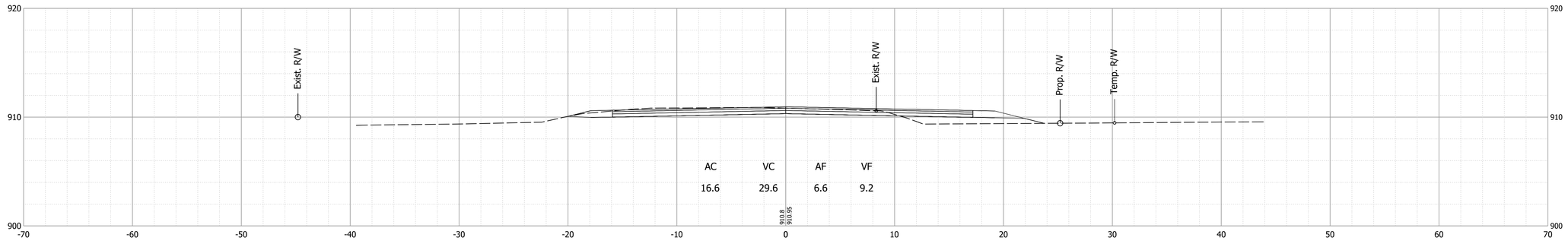
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

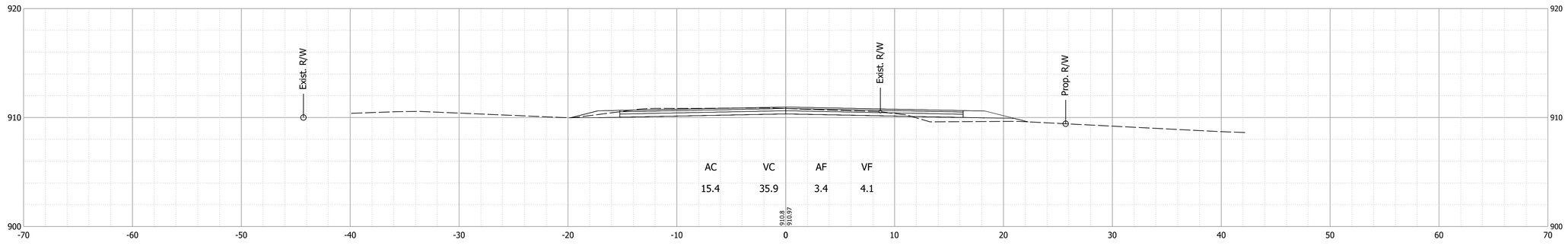
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110+50



110+00



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MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

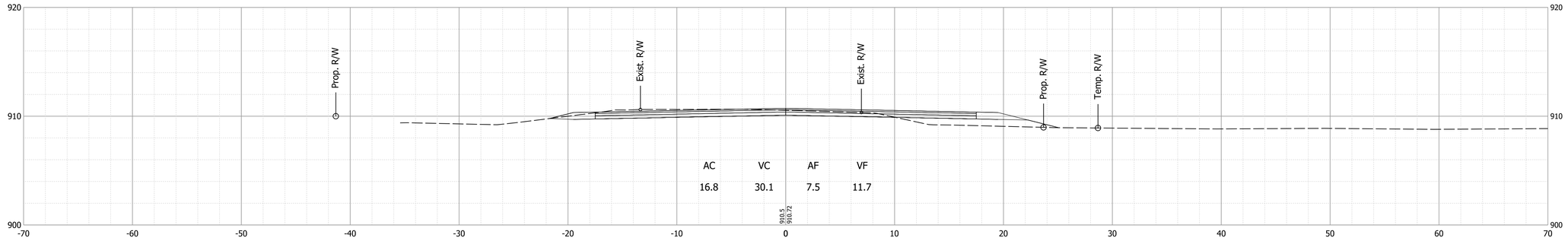
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DATE: 01/30/2024			
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PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

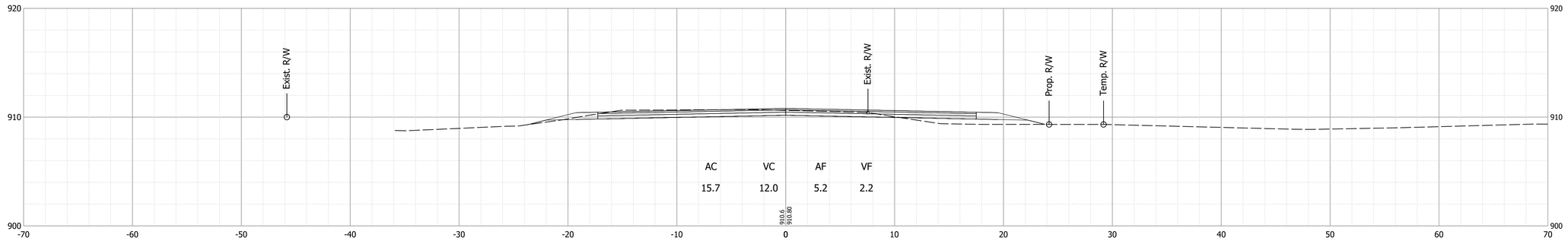
Lochmueller Group, Inc.

SHEET 54
OF 101

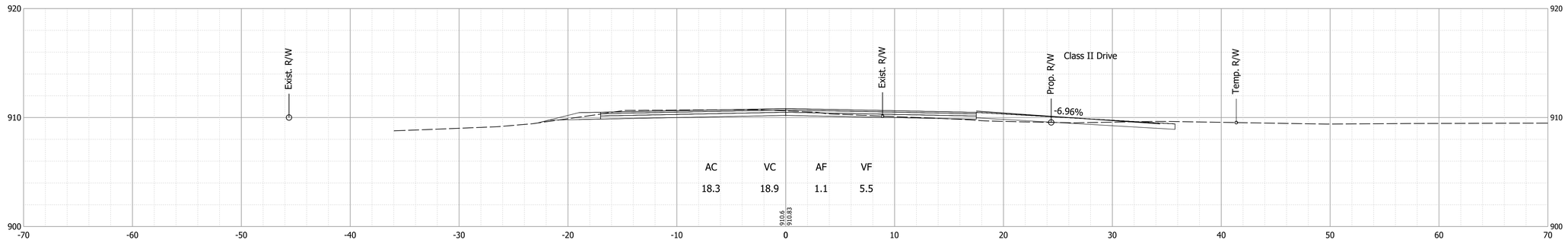
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111+50



111+31



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Plot Style: acad.ctb

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

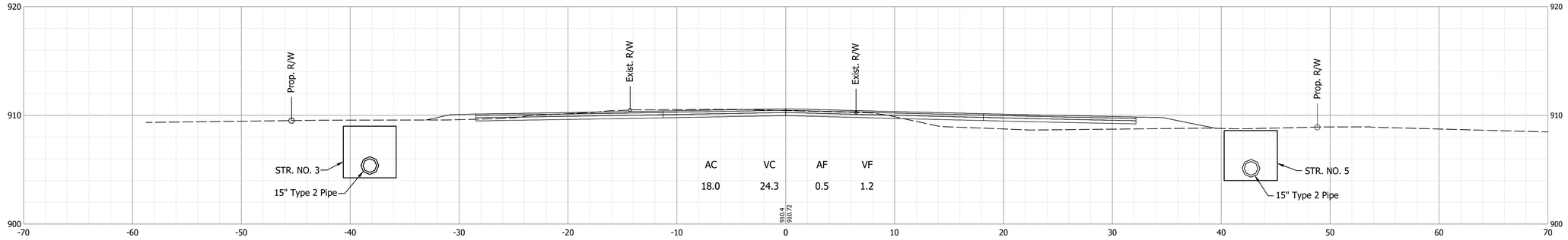
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PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

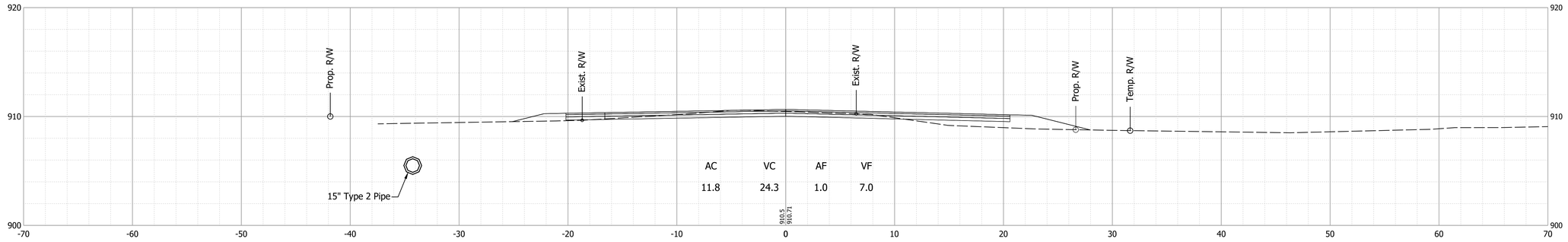
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SHEET 55
OF 101

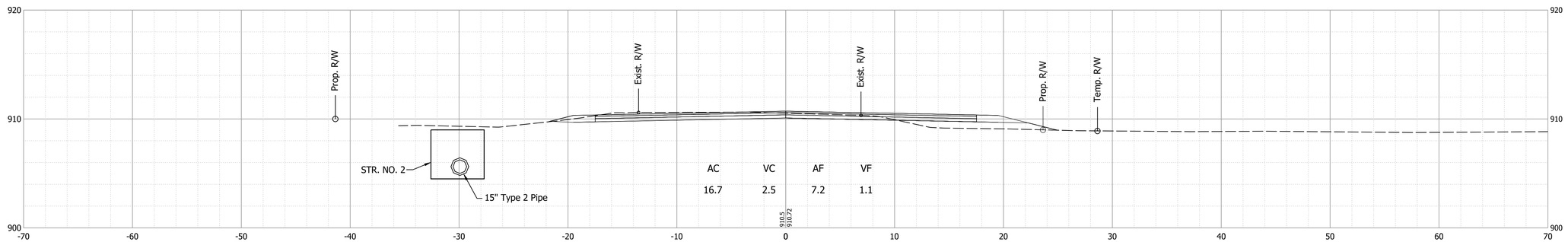
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112+50



112+04



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MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

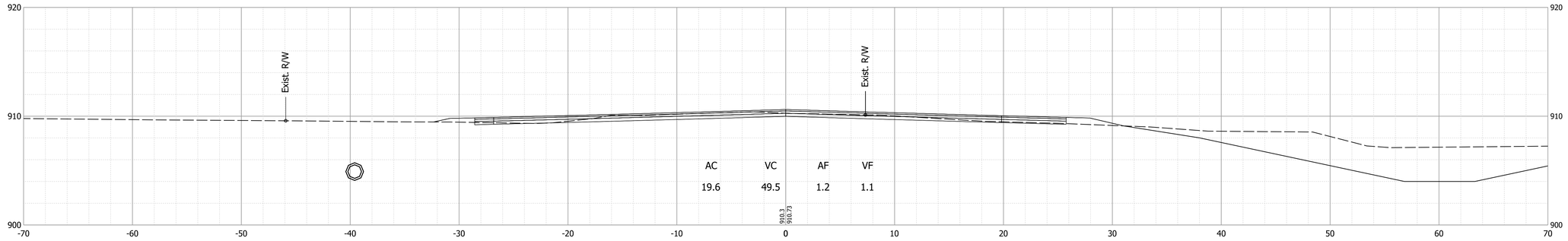
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VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE
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2			
3			
4			
5			
6			

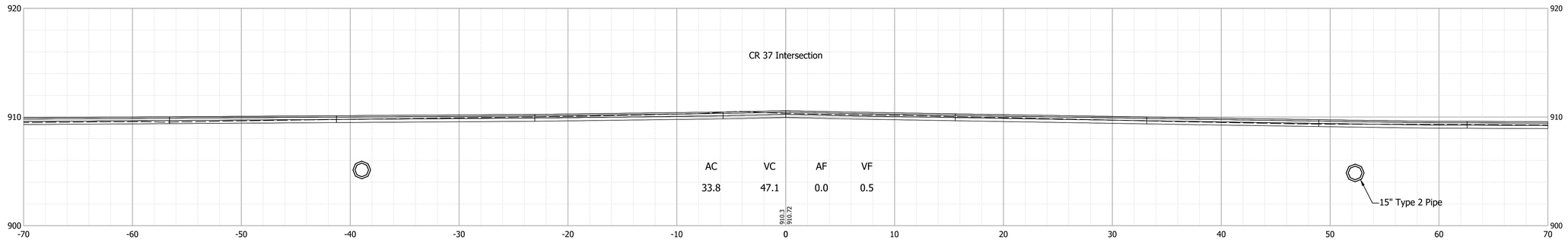
Lochmueller Group, Inc.

SHEET 56
OF 101

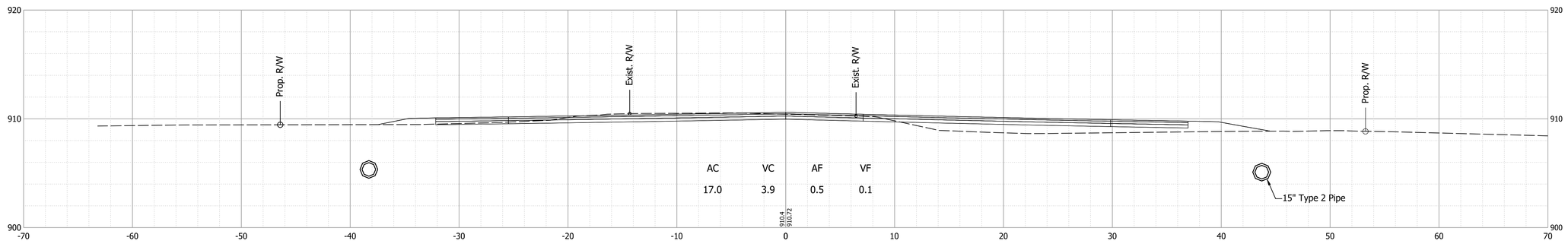
114+00



113+50



113+00



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Plotted By: Mark T. 2024.10.01 at PM // Holiday.ctb

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

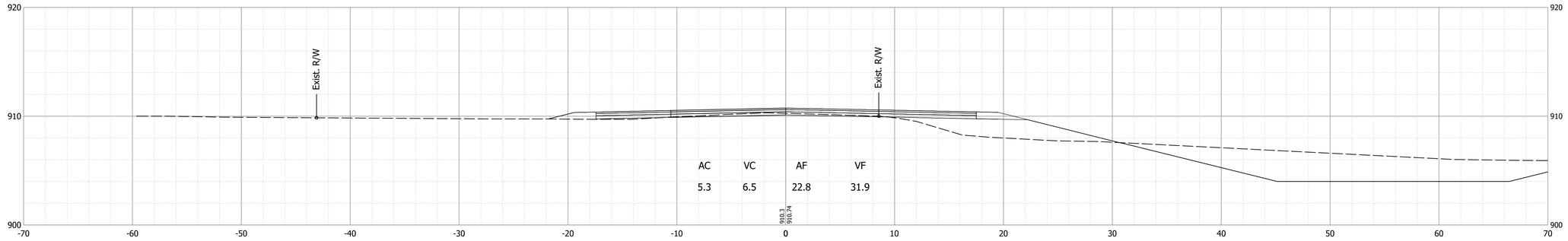
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

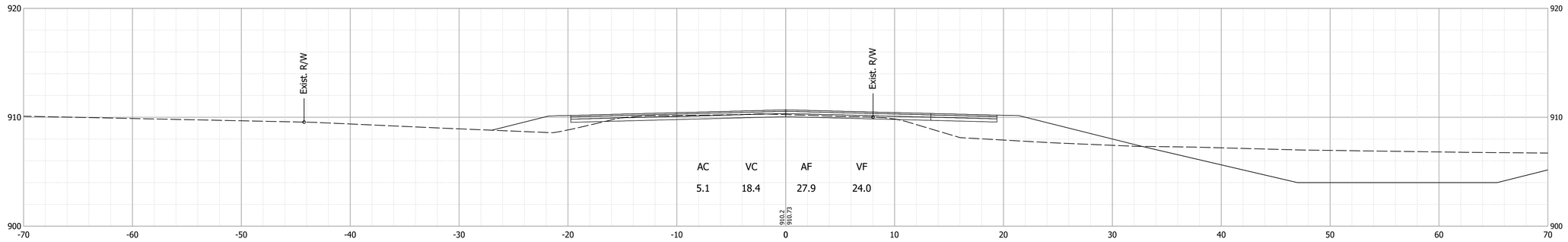
Lochmueller Group, Inc.

SHEET 57
OF 101

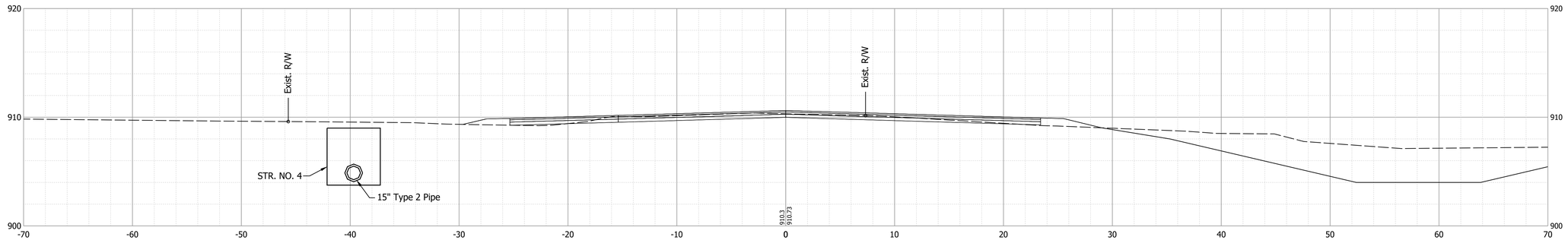
114+84



114+50



114+07



File Name: K:\Projects\Middlebury\2023\12-SAGAGIS\Construction\Road_CS50.dwg Section Sheet: (7)
Modified By: Jeremy Hall
March 7, 2024 9:55:44 PM
Plotted By: Jeremy Hall
March 7, 2024 9:55:50 PM
Plotted: 24x36 (Landscape).pltcfg

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

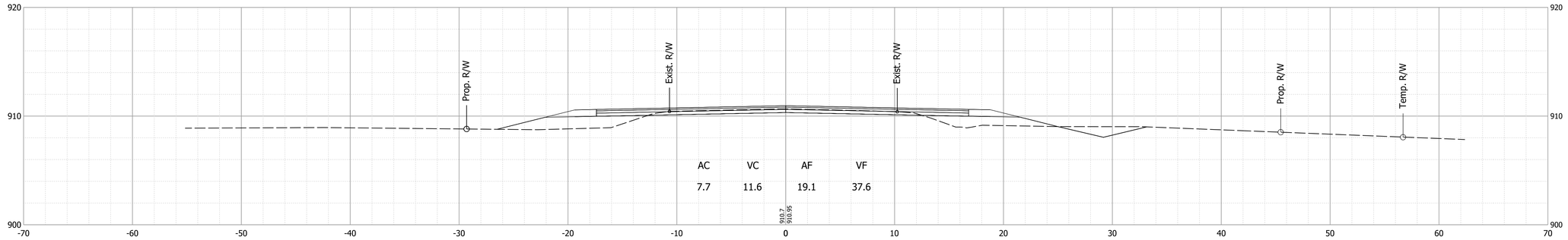
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

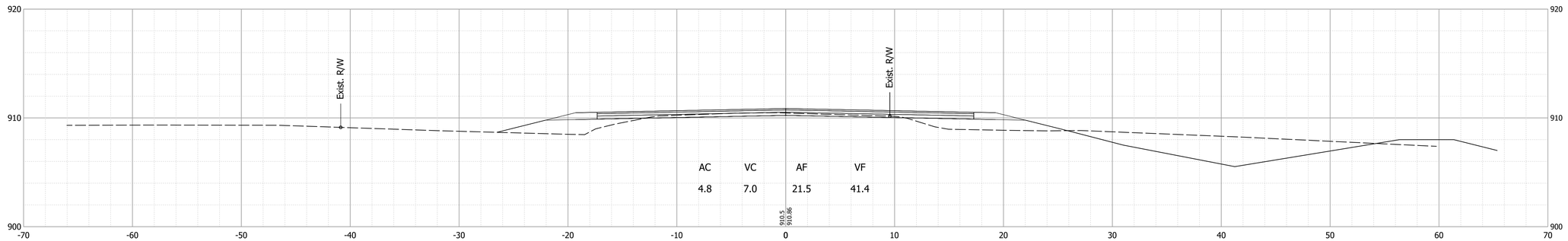
Lochmueller Group, Inc.

SHEET 58
OF 101

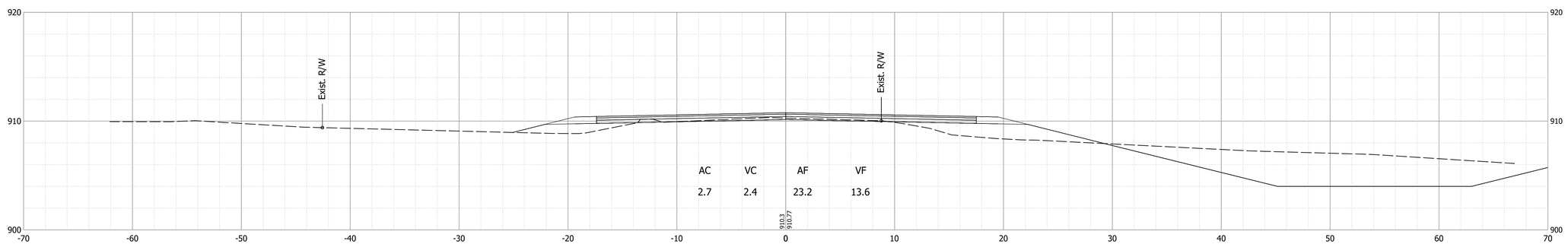
116+00



115+50



115+00



File Name: I:\Projects\Middlebury\2022\22005\Civil\Sheets\Sheet_CXSD.dwg Section Sheet - IN
Model By: Mark: 1 2024-5:54:54 PM jmelling
Layout By: Mark: 1 2024-5:55 PM jmelling
Xrefs: ...ayout.dgn

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

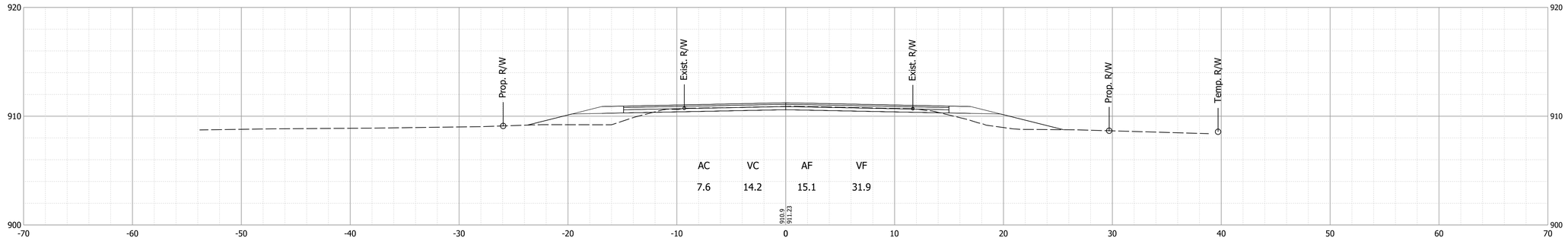
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

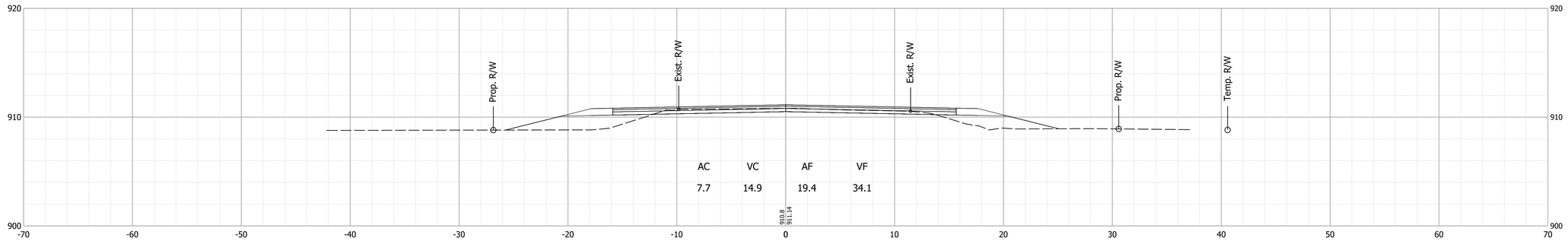
Lochmueller Group, Inc.

SHEET 59
OF 101

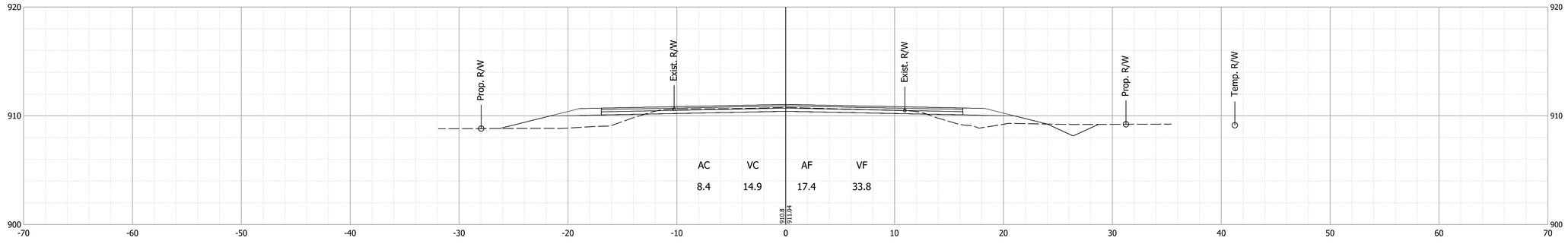
117+50



117+00



116+50



File Name: X:\Projects\Middlebury\CAD\Sheets\Sheet_CROSS.dwg Section Sheet - (9)
Modified By: Mark T. 2024.1.0.0 Mar 7 // Holiday
Plotted By: Mark T. 2024.1.0.0 Mar 7 // Holiday.ctb

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

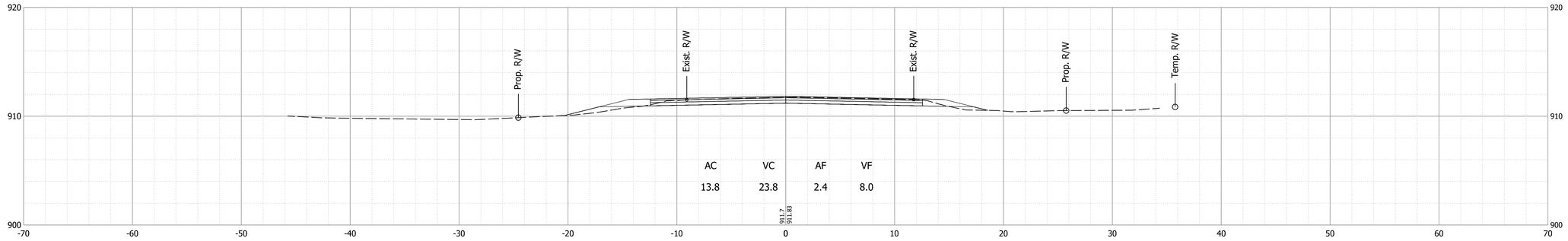
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

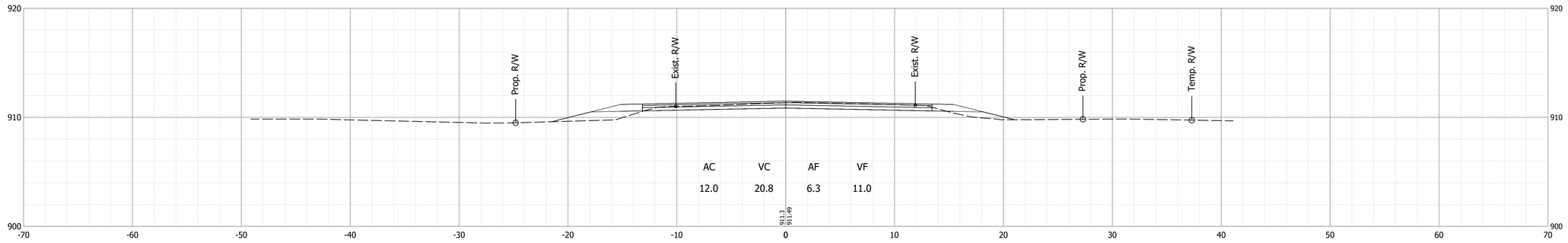
Lochmueller Group, Inc.

SHEET 60
OF 101

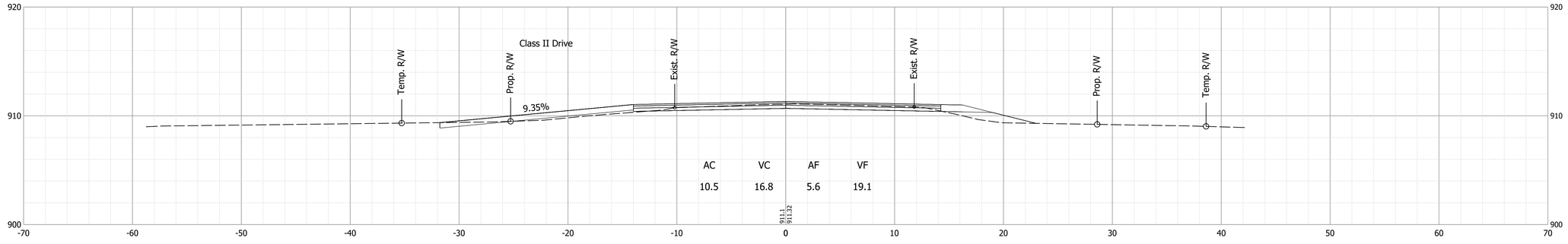
119+00



118+50



118+00



File Name: X:\Projects\Middlebury\Civil\CAD\Cad Files\Cross_CAD.dwg Section Sheet: (10)
Modified By: Mark T. 2024.1.0.0 Mar 7 / Hartley
Plotted By: Mark T. 2024.1.0.0 Mar 7 / Hartley.pc3

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

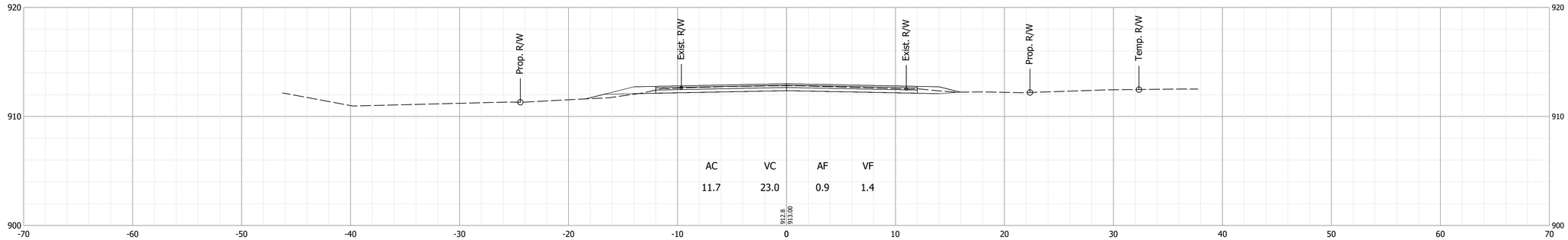
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

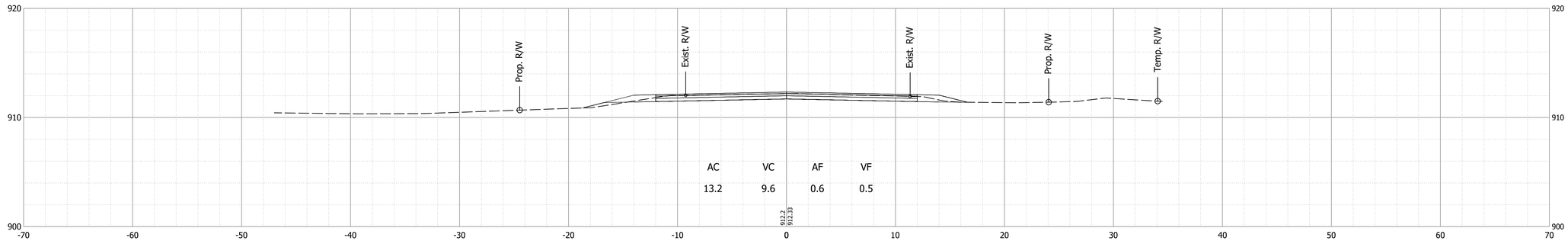
Lochmueller Group, Inc.

SHEET 61
OF 101

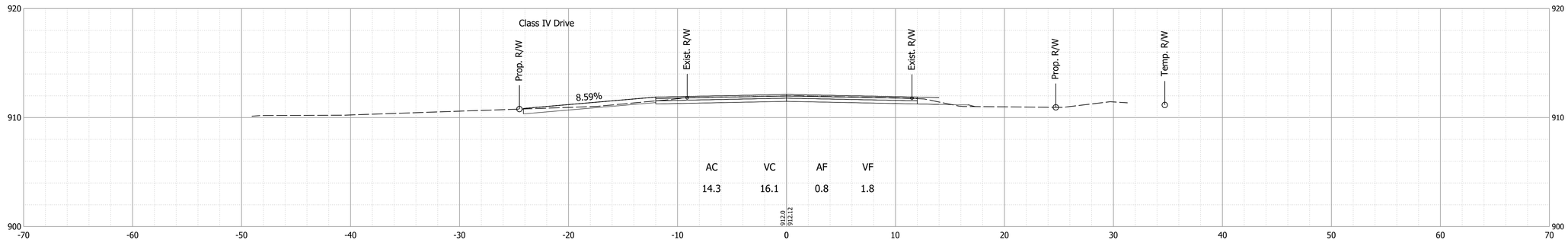
120+00



119+50



119+31



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

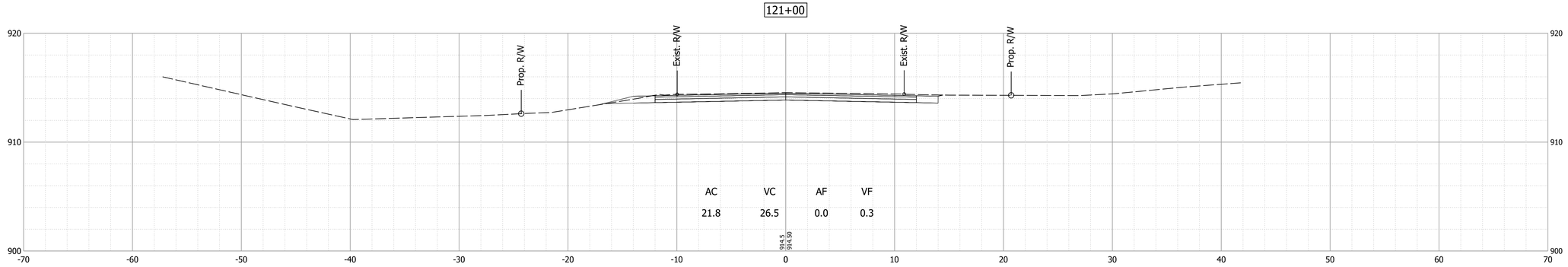
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

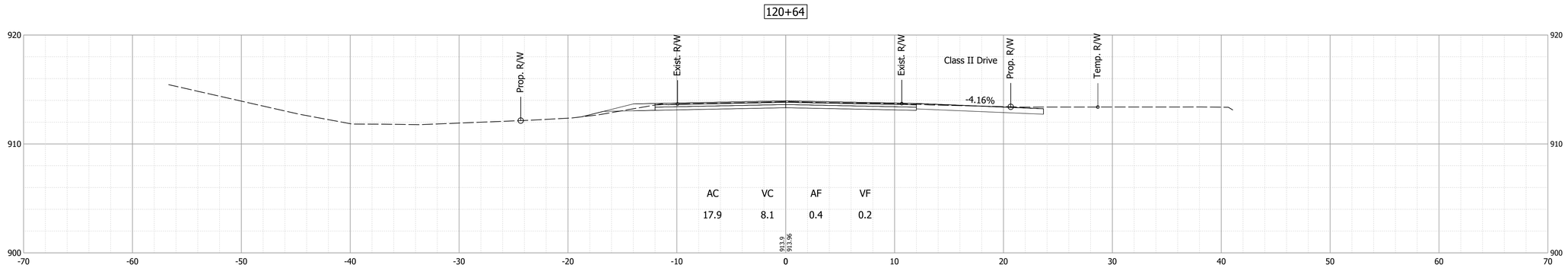
NO.	REVISION	BY	DATE

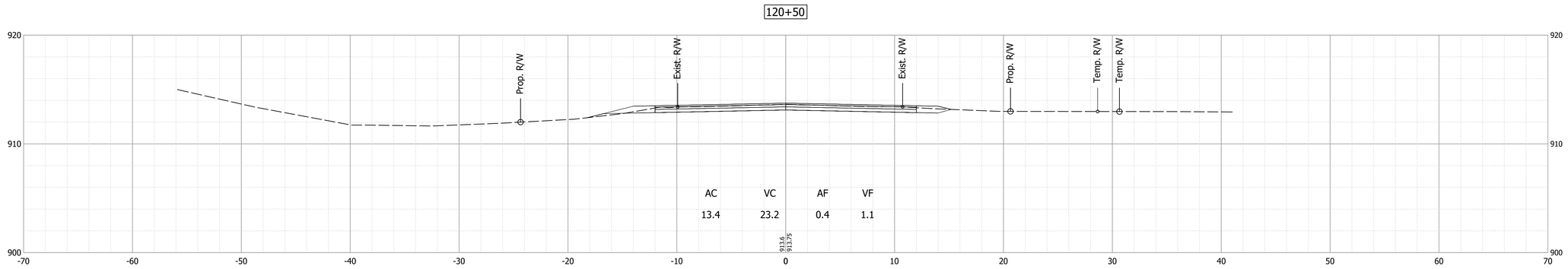
Lochmueller Group, Inc.

SHEET 62
OF 101

File Name: X:\Projects\Middlebury\Civil\Sheets\Roadway\Cross Sections\Middlebury_CROSS.dwg Section Sheet: (11)
Modified By: Mark T. 2024 1:02:44 PM // mtetley
Plotted By: Mark T. 2024 1:02:47 PM // mtetley







File Name: X:\Projects\Middlebury\22005\CAD\Civil\Sheets\05Sheet_CROSS.dwg Section Sheet (10)
Modified By: Mark T. 2024 8:53 AM By: jmobley
Plotted By: Mark T. 2024 8:53 AM By: jmobley

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

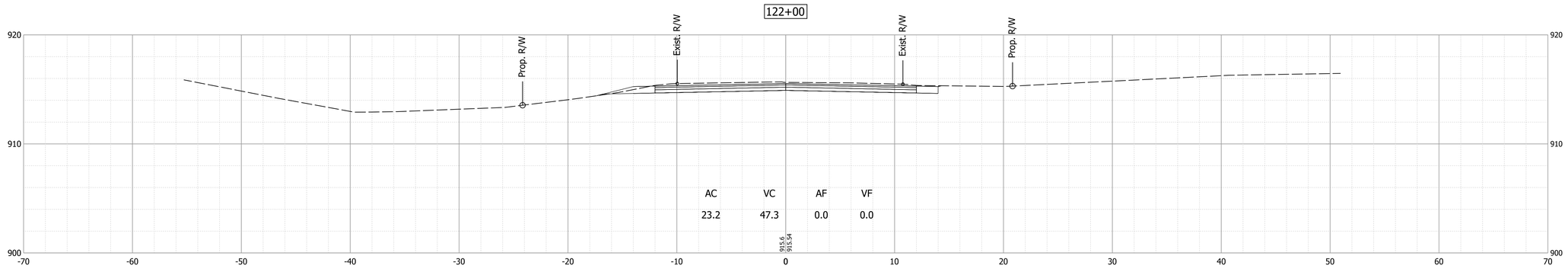
CROSS SECTIONS LINE 'PR-A'

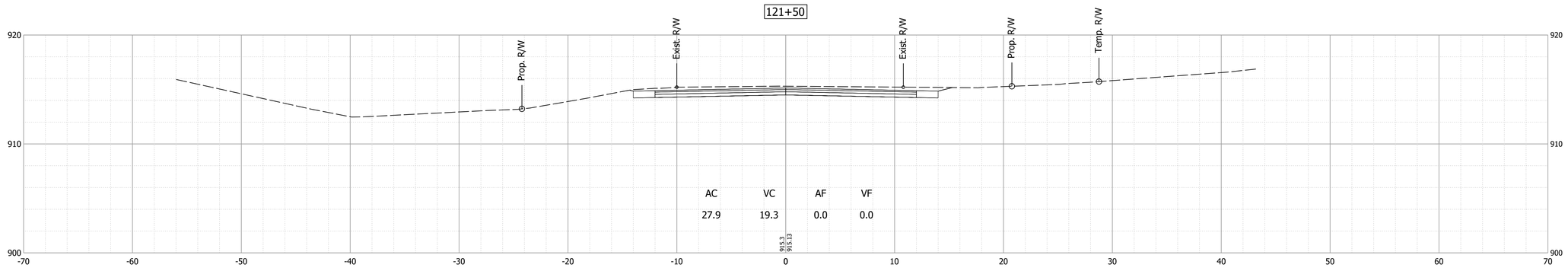
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

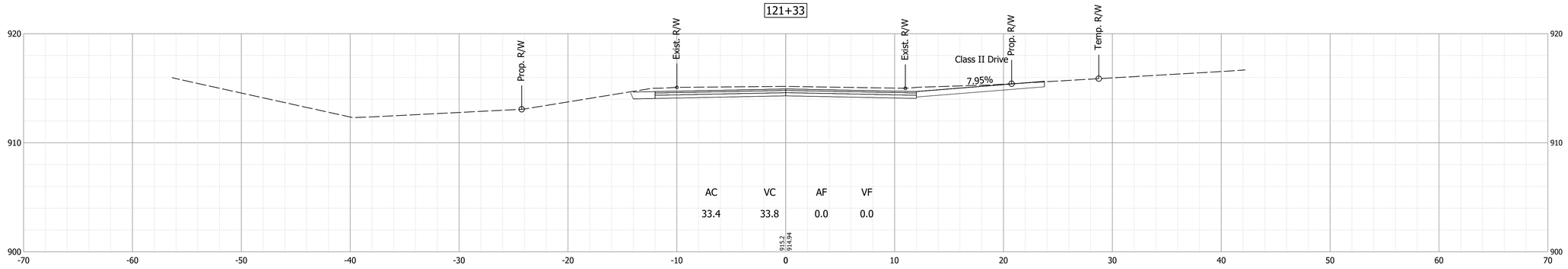
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

SHEET 63
OF 101







File Name: X:\Projects\Middlebury\Civil\SAMCAD\Sheets\Sheet_CROSS.dwg Section Sheet: (10)
Modified By: Mark-1 2024.10.02 04:47 PM // mmiley
Plotted By: Mark-1 2024.10.02 04:48 PM // mmiley.pet

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

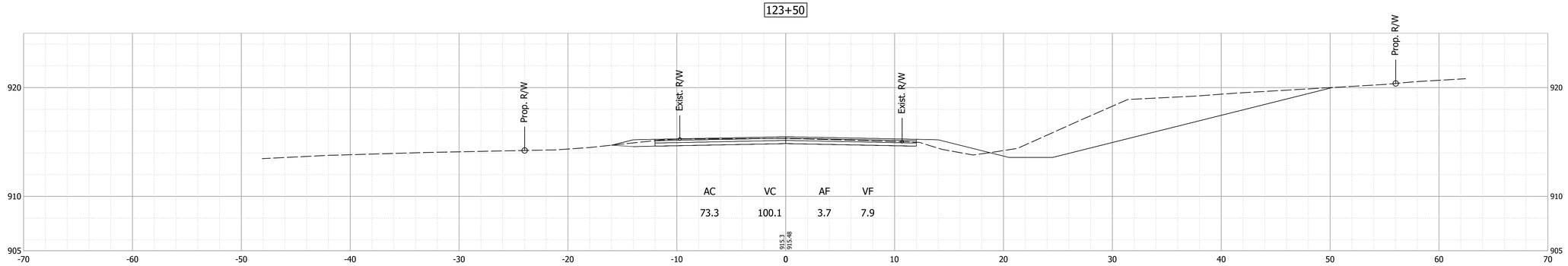
CROSS SECTIONS LINE 'PR-A'

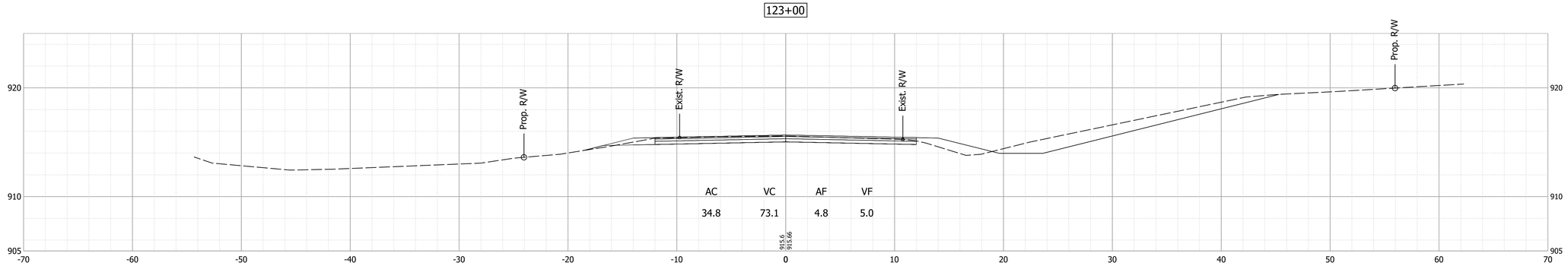
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

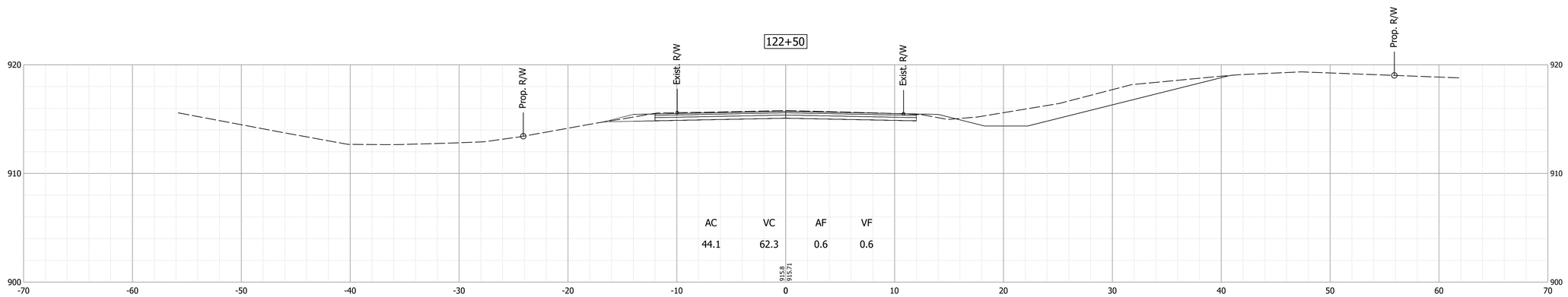
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

SHEET 64
OF 101







File Name: C:\Projects\Middlebury\01 ENGR\CAD\Sheets\middlebury_XSEC.dwg Sheet: (4)
Modified By: Jessica Stewart
Plotted By: Jessica Stewart
Date: 1/30/2024 9:54 PM
Date: 1/30/2024 9:55 PM

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

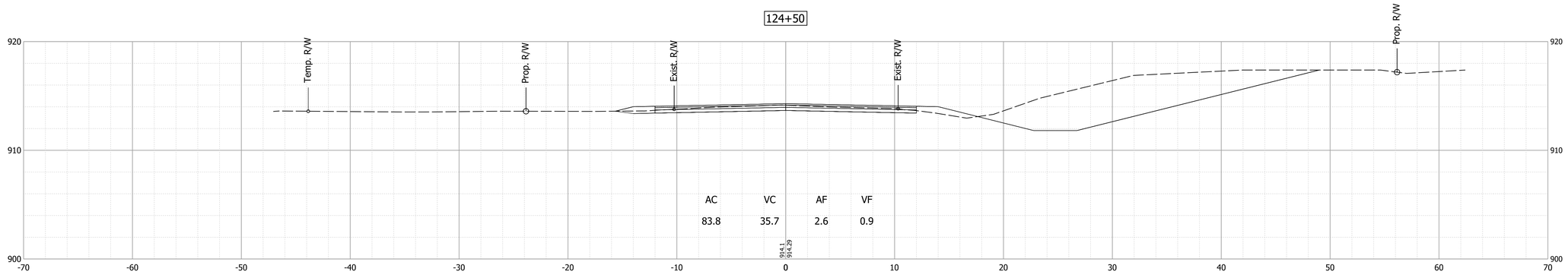
CROSS SECTIONS LINE 'PR-A'

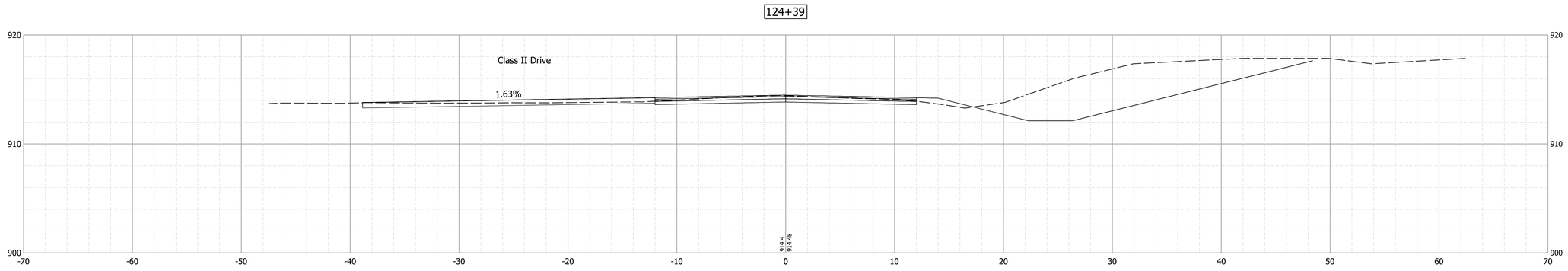
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

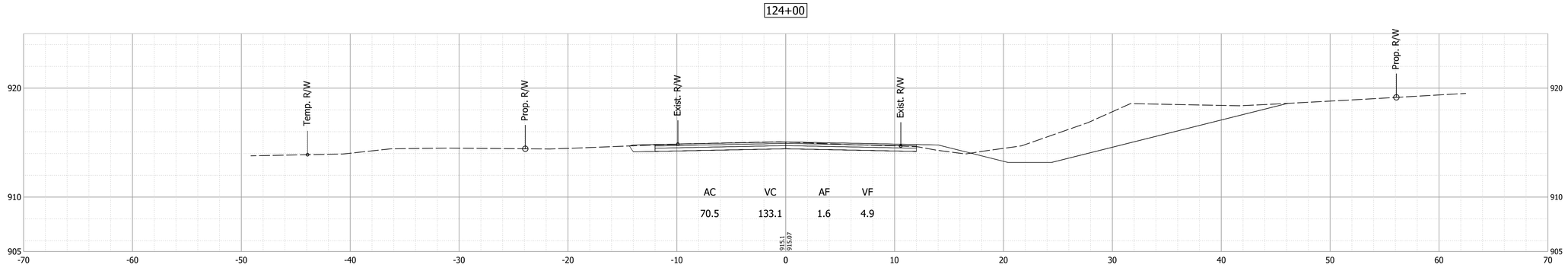
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

SHEET 65
OF 101







File Name: X:\Projects\Middlebury\CAD\Roadway\Sheets\CROSS.dwg Section Sheet: (10)
Modified By: Mark T. 2024.1.8 8:54:44 PM // mtetley
Plotted By: Mark T. 2024.1.8 8:55:00 PM // mtetley, pc6

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

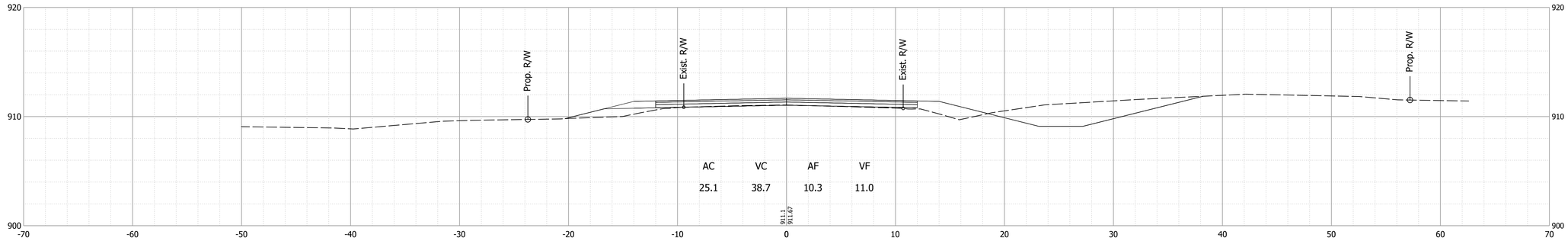
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE
1			
2			
3			
4			
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6			

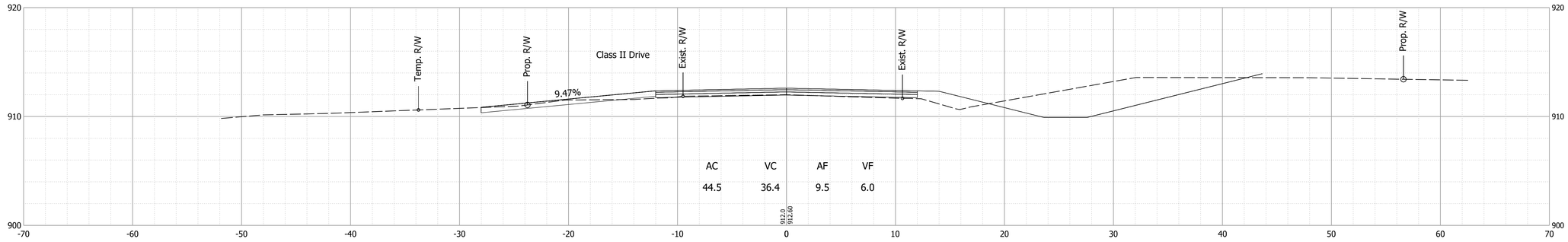
Lochmueller Group, Inc.

SHEET 66
OF 101

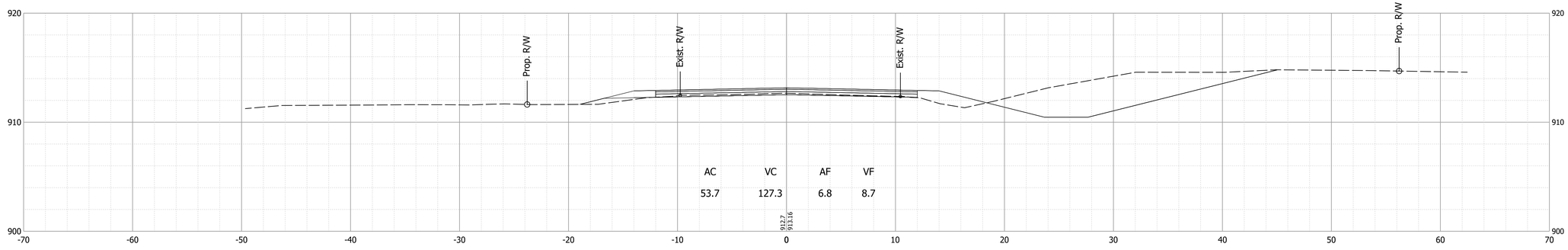
125+50



125+20



125+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

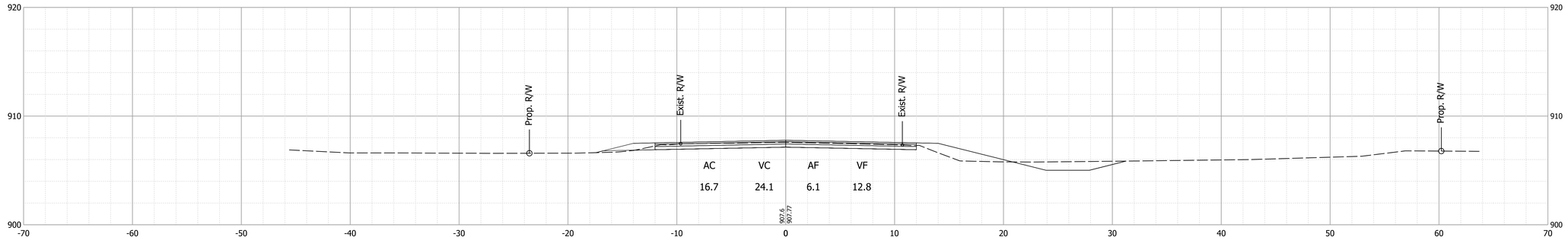
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

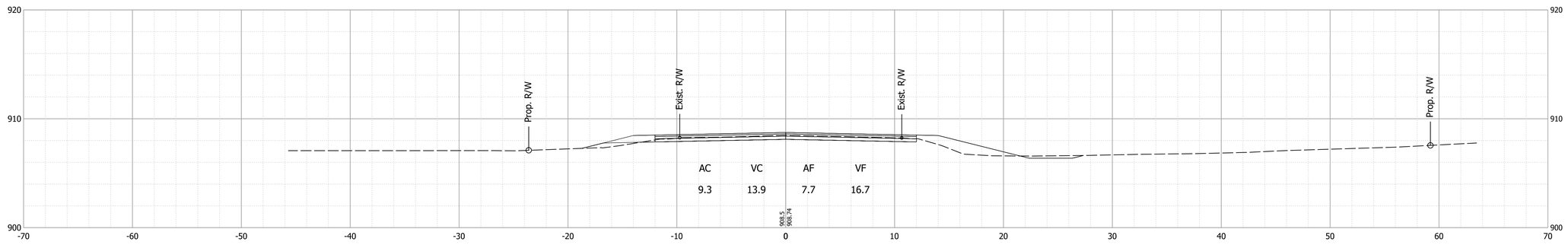
SHEET 67
OF 101

File Name: X:\Projects\Middlebury\Drawings\Roadway\Sheets\CROSS.dwg Section Sheet: (16)
Modified By: Mark T. 2024.4.8 8:54:44 PM // mtetley
Plotted By: Mark T. 2024.4.8 8:55:14 PM // mtetley

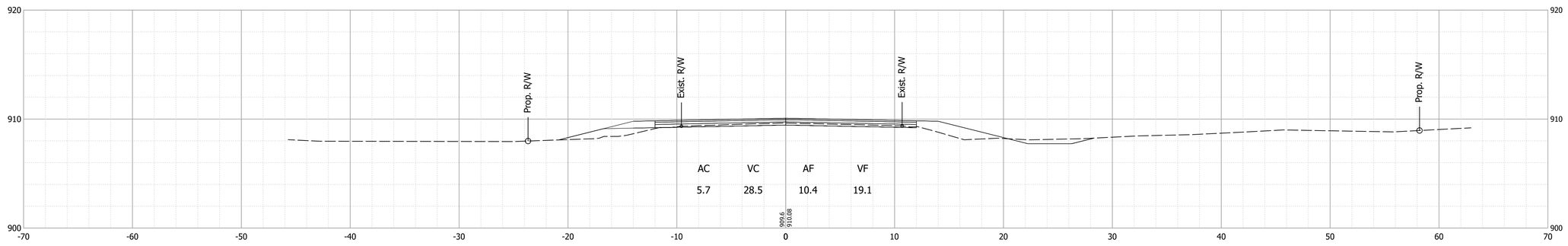
127+00



126+50



126+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

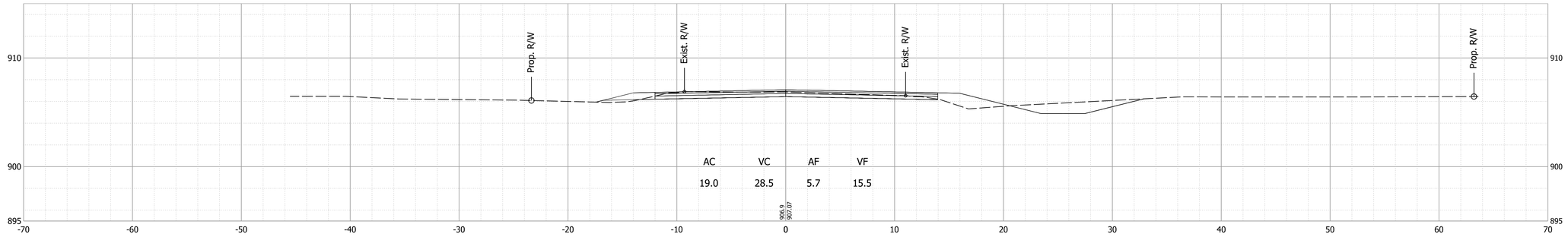
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

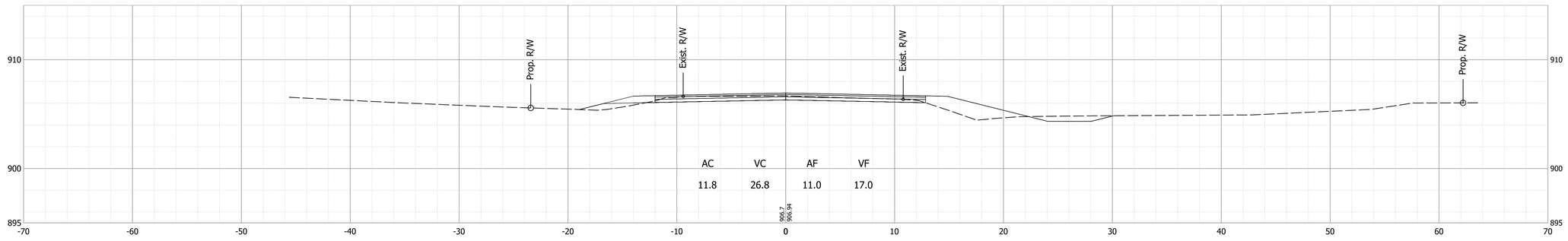
SHEET 68
OF 101

File Name: M:\Projects\Middlebury\2022\22005\Roadway\Sheets\Plan_CROSS.dwg - Section Sheet - (17)
Modified By: Marie S. 2/26/24 5:54:46 PM (GMT-5:00)
Saved By: Marie S. 2/26/24 5:54:19 PM (GMT-5:00)

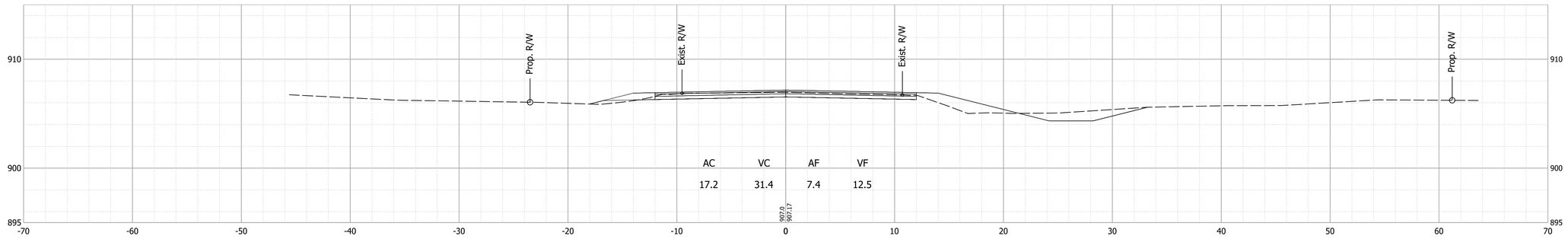
128+50



128+00



127+50



File Name: X:\Projects\Middlebury\22005\PLANS\Roadway\Sheets\CROSS.dwg Section Sheet: (19)
Modified By: Mark T. 2024 4:56 PM // Jobley
Plotted By: Mark T. 2024 4:56 PM // Jobley

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

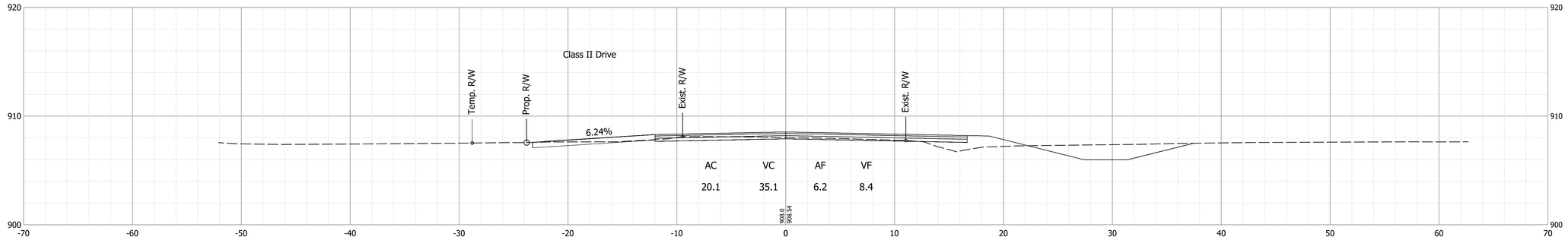
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

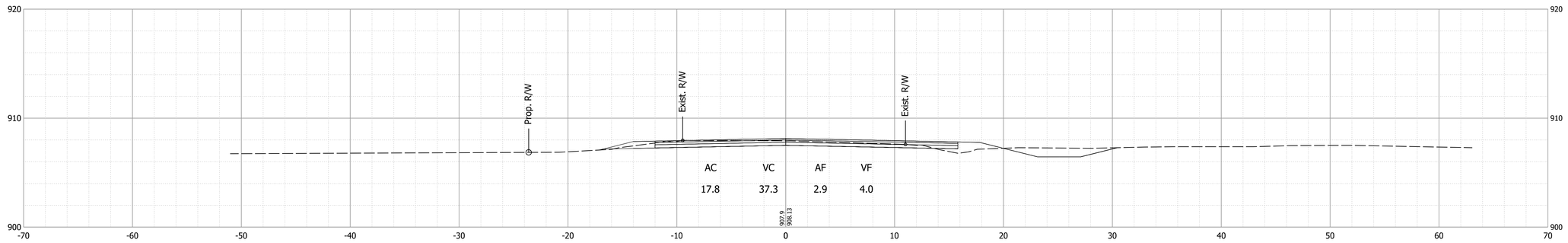
Lochmueller Group, Inc.

SHEET 69
OF 101

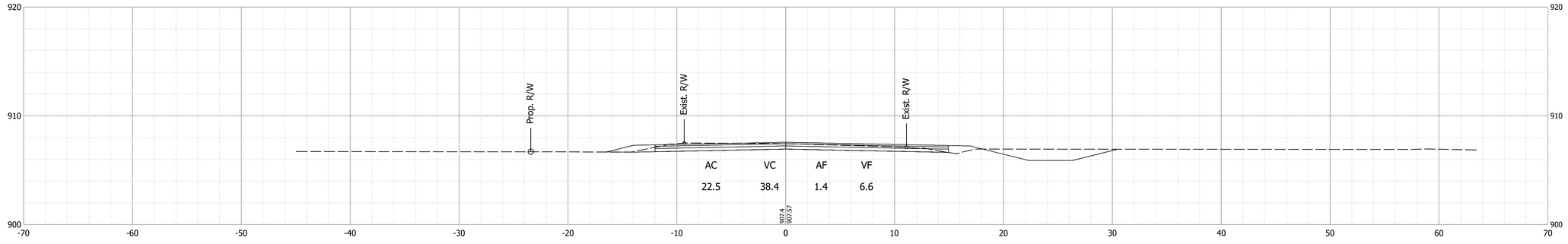
130+00



129+50



129+00



File Name: C:\Projects\Projects\2022\22005\CAD\Civil\sheets\Sheet_CROSS.dwg - Section Sheet - (19)
Modified By: Mark S - 2024-5-24 PM / jmobley
Plotted By: Mark S - 2024-5-24 PM / jmobley
Layout: Layout1 - 11x17 Landscape.dwt

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

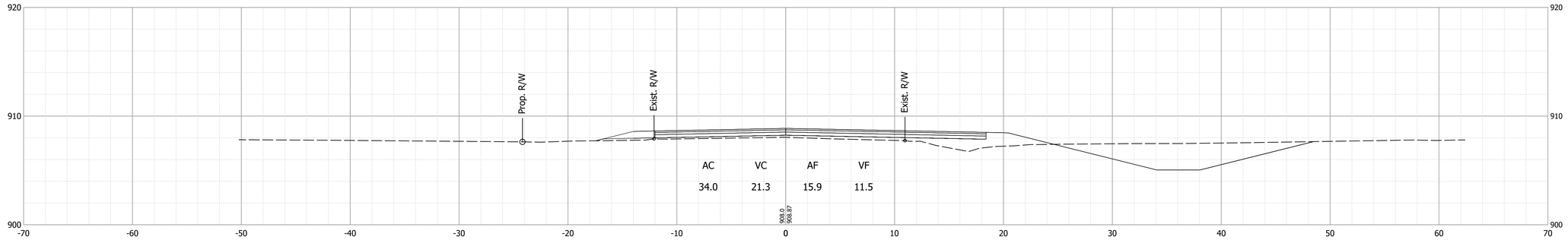
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DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

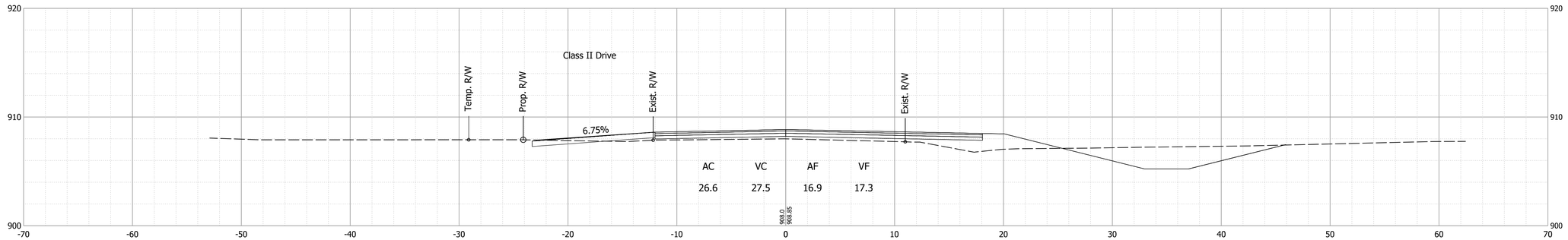
Lochmueller Group, Inc.

SHEET 70
OF 101

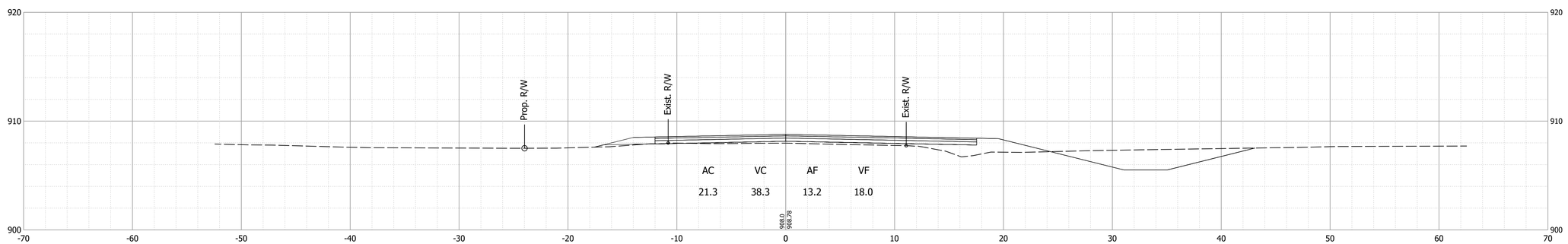
131+00



130+81



130+50



File Name: I:\Projects\Middlebury\2022\22005\Civil\Roadway\Sheets\22005_CRSS.dwg Section Sheet (-20)
Modified By: Mark: 1 2024-5-30 PM
Plotted By: Mark: 1 2024-5-30 PM
Plotting: Lochmueller Group.ctb
Layout: Layout1.pdf

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

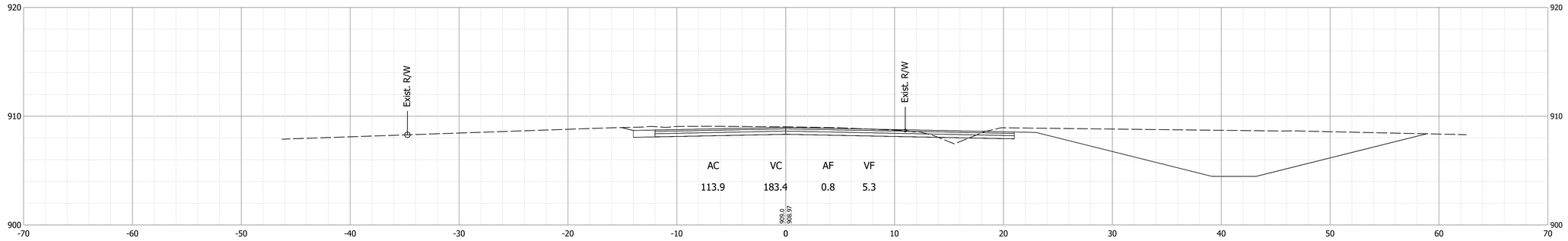
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

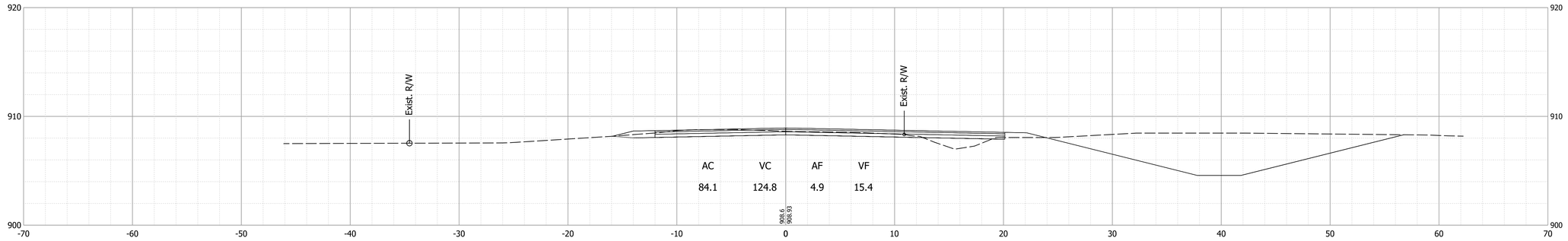
Lochmueller Group, Inc.

SHEET 71
OF 101

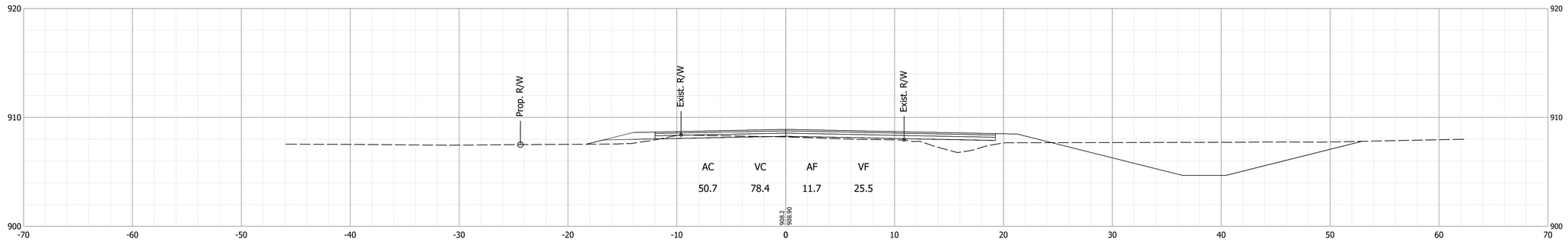
132+50



132+00



131+50



File Name: X:\Projects\Middlebury\2023\23-MIDDLEBURY\Roadway\Sheets\Middlebury_CROSS.dwg - Section Sheet - (2)
Modified By: Brandon Sutton
Plotted By: Brandon Sutton
Plot Date: 1/30/2024 9:56:44 PM
Plot Scale: 1 : 1024.14 Inch Per Inch
Plot Style Table: Middlebury.ctb

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

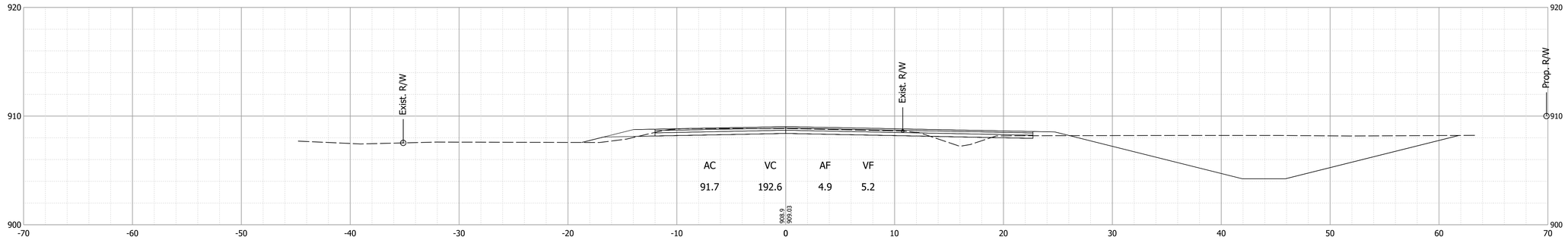
CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS	SHEET	72
DESIGNED: JRM	APPRV'D: BSS	OF	101
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

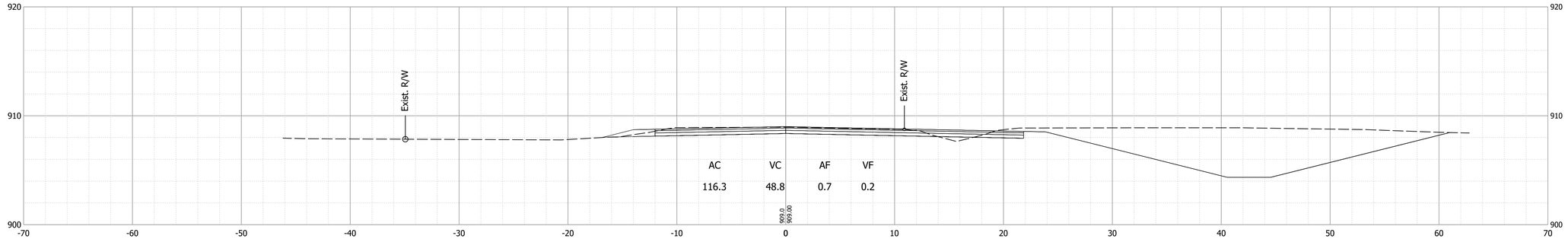
NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

Lochmueller Group, Inc.

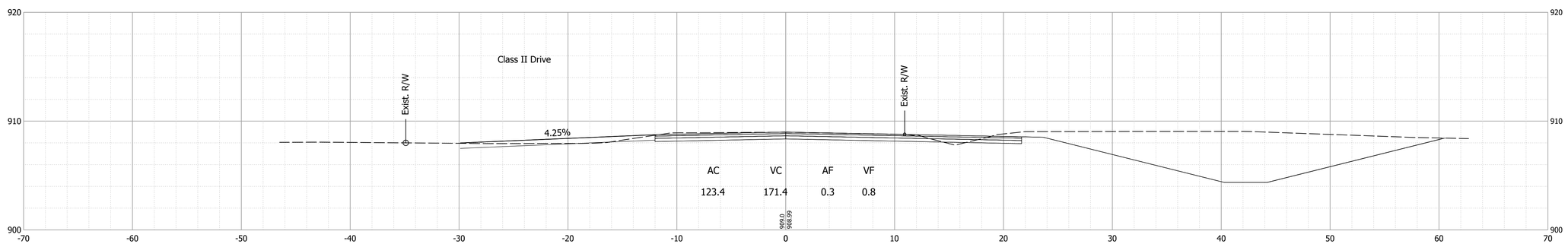
133+50



133+00



132+89



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

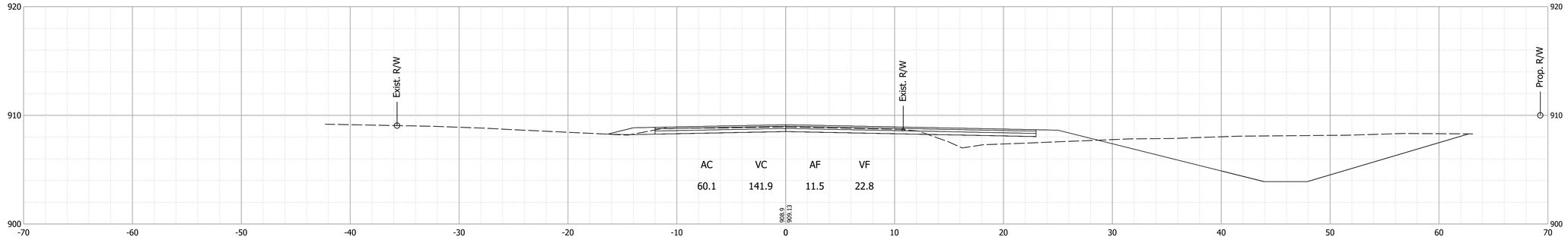
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

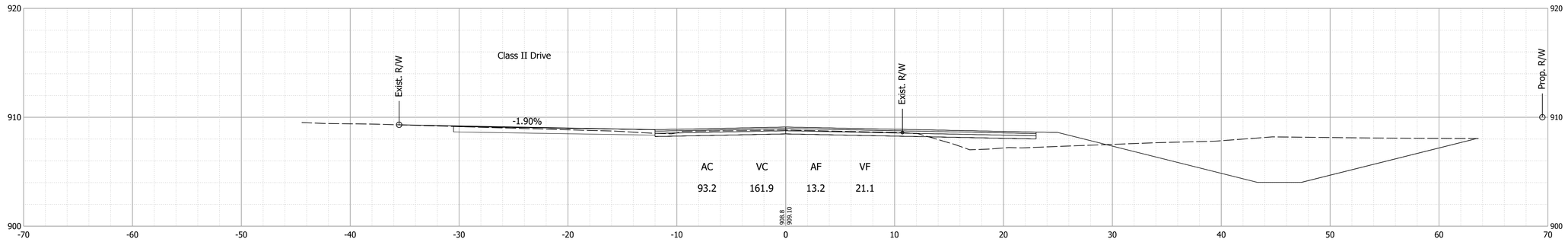
SHEET 73
OF 101

File Name: I:\Projects\Planning\2022\22-1636\CAD\Sheets\Sheet_CROSS.dwg - Section Sheet - (22)
Modified By: Brandon Sy
Plotted By: Brandon Sy
Date: 1/30/24 8:55:44 PM
Layer: 1:1024 X 768 PM / Desktop

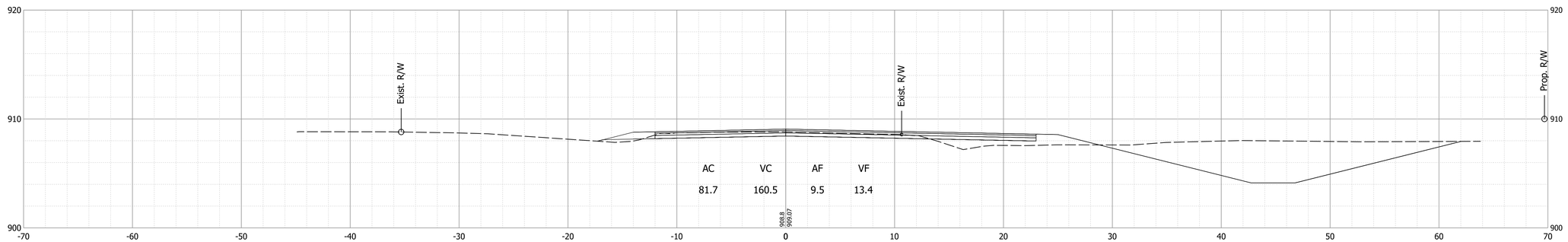
135+00



134+50



134+00



File Name: K:\Projects\Middlebury\2022\12-SAGACAD\Construction\Sheet_C2502.dwg Modified By: Layout: Plotted By:

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

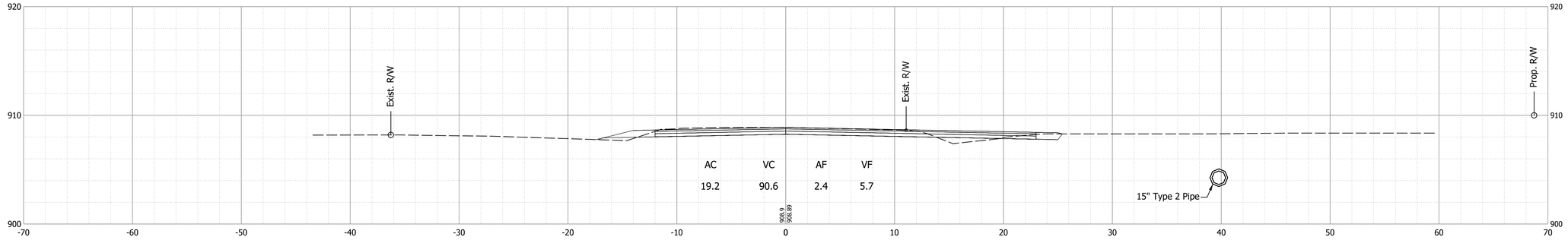
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

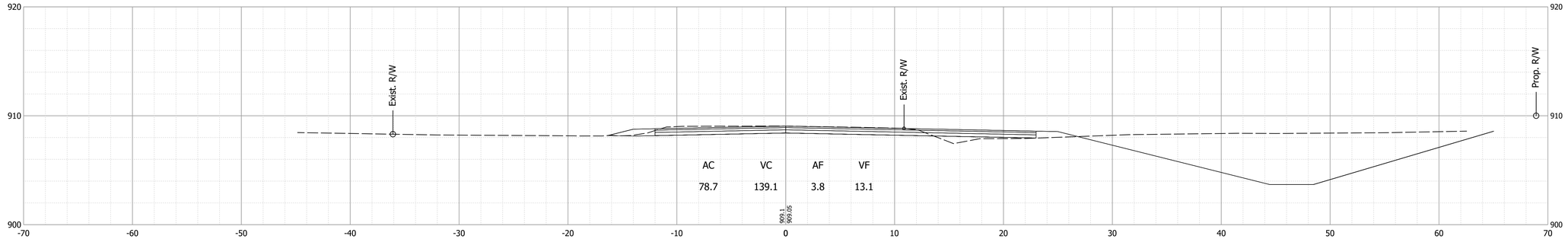
Lochmueller Group, Inc.

SHEET 74
OF 101

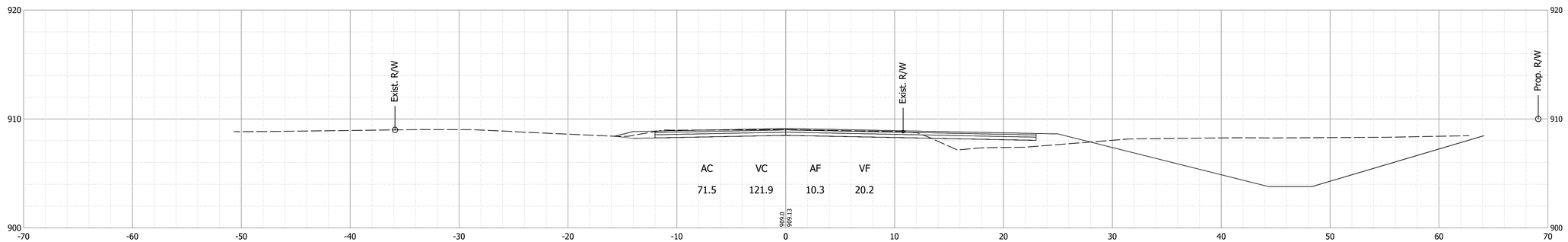
136+50



136+00



135+50



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

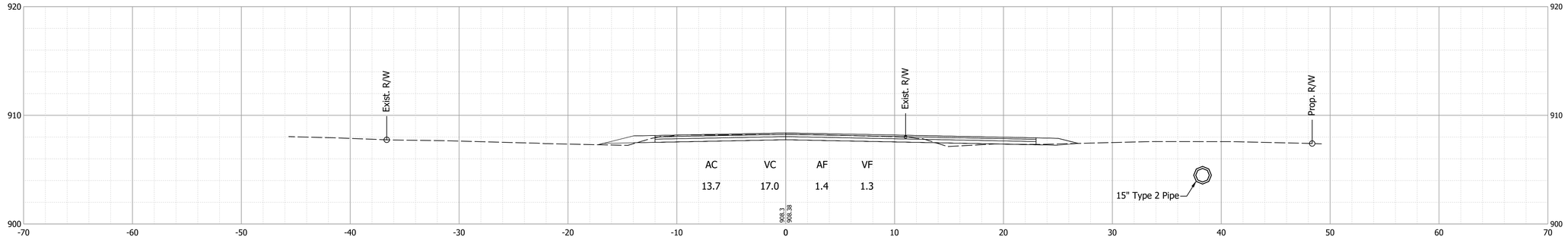
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

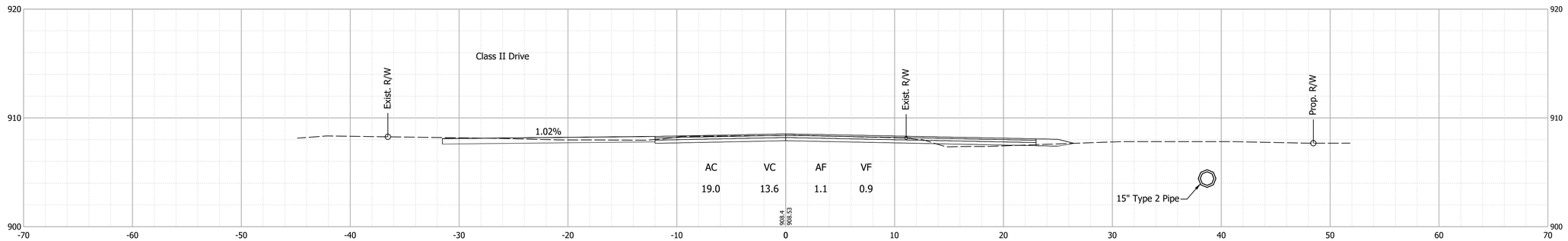
SHEET 75
OF 101

File Name: M:\Projects\Projects\2022\22005\MDLDesktop\Plots_CAD\Cross Sections Sheet (24)
Plotted By: Plotted: 2024-01-30 4:47 PM by jmorley
Layout: 2024-01-30 4:47 PM by jmorley_arf

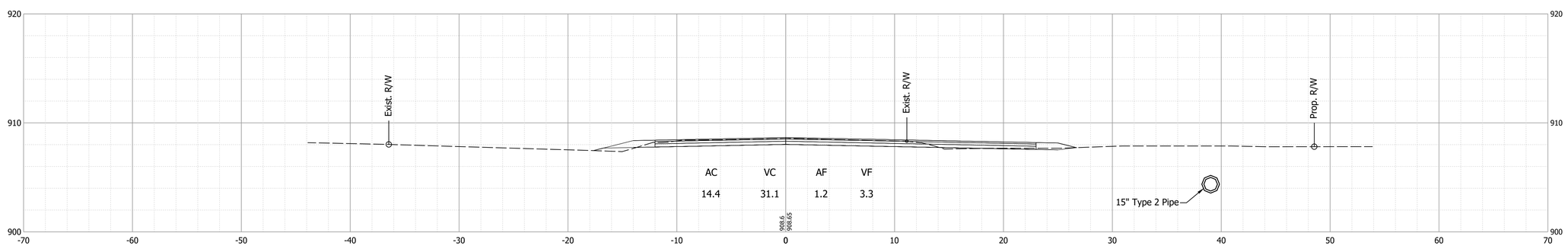
137+50



137+22



137+00



File Name: M:\Projects\Middlebury\2022\22005\PDS\Roadway\Sheets\Middlebury_CROSS.dwg Section Sheet: (20)
Modified By: Marie S. 2024-3-5 4:44 PM (Tuesday)
Plotted By: Marie S. 2024-3-5 4:45 PM (Tuesday) pdf

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

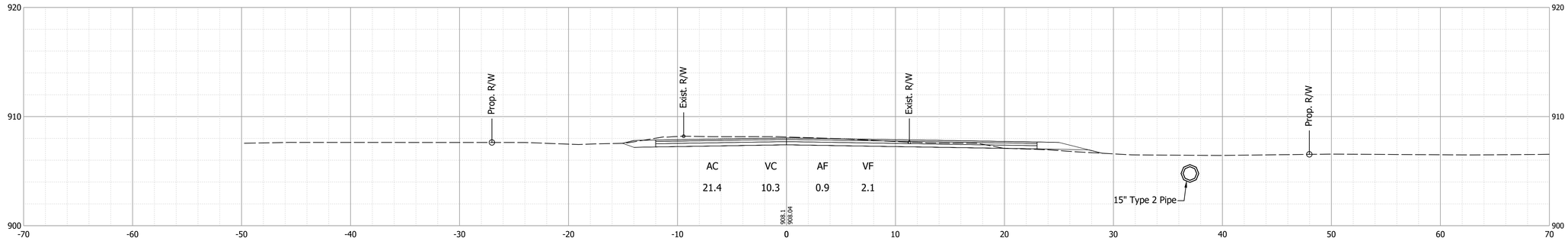
CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

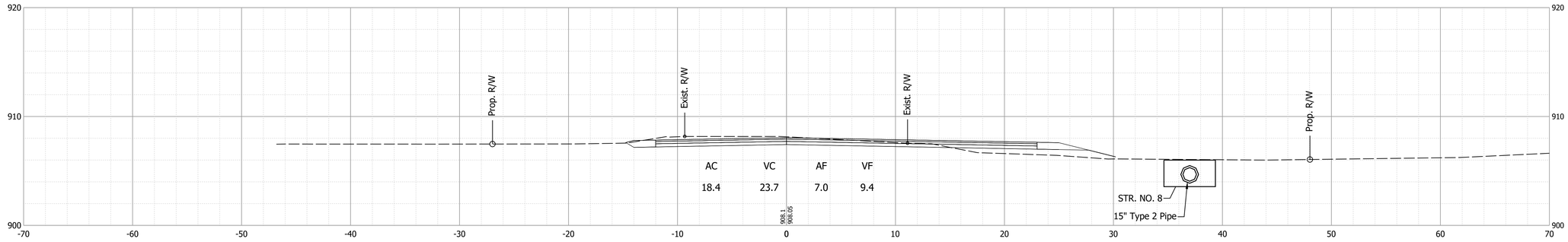
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

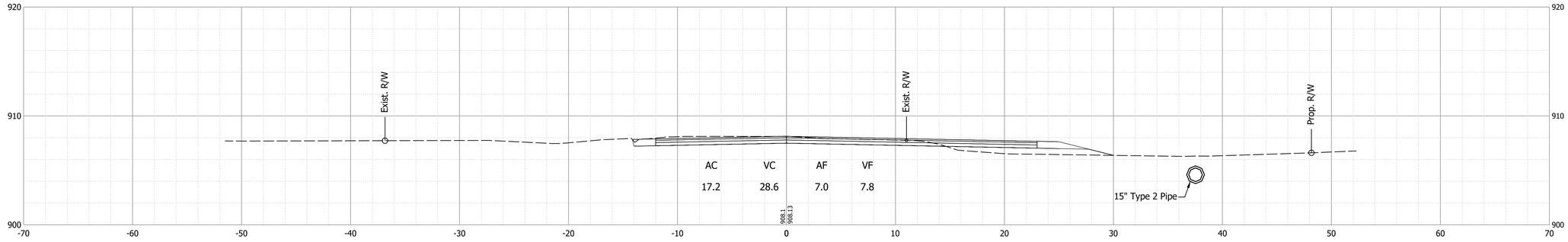
138+50



138+36



138+00



File Name: X:\Projects\Middlebury\Civil\Sheets\Roadway\Cross_Section Sheet - (SR)
Modified By: Mark T. 2024-1-19 8:54:46 PM // mmiley
Plotted By: Mark T. 2024-1-19 8:55:19 PM // mmiley

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

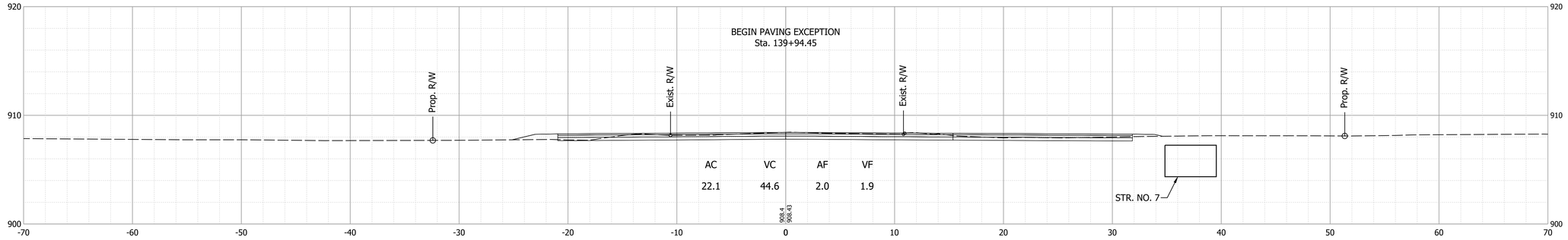
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

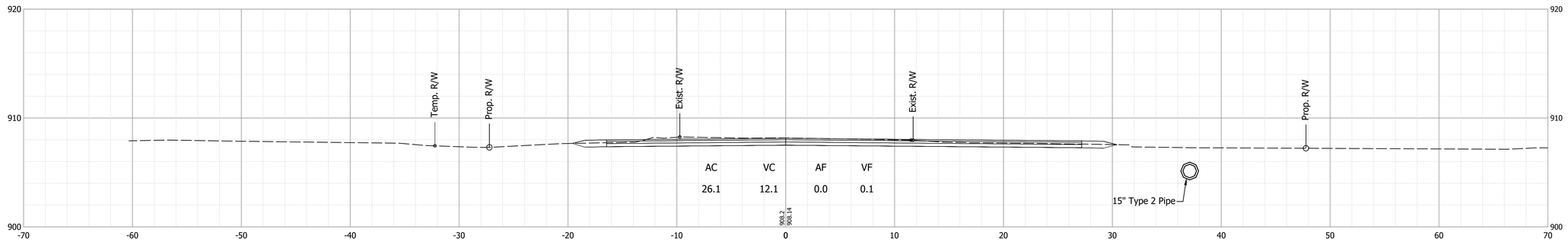
Lochmueller Group, Inc.

SHEET 77
OF 101

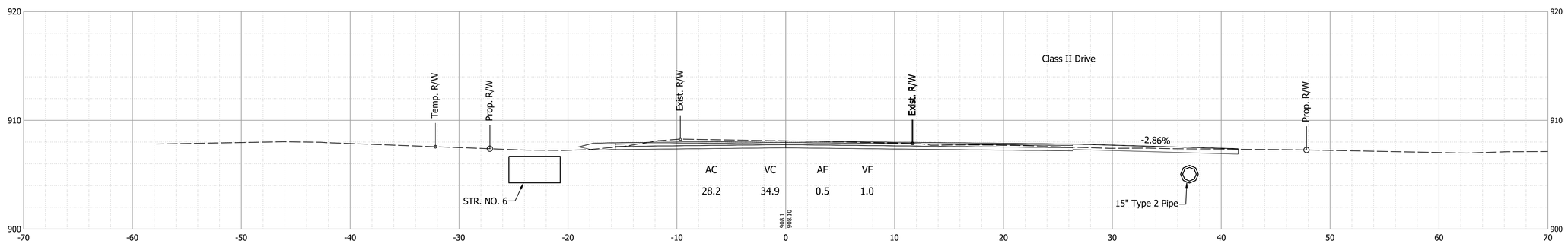
139+50



139+00



138+88



File Name: K:\Projects\Middlebury\111.5004\CAD\Civil\sheets\Sheet_CS50.dwg Section Sheet - (2)
Modified By: Mark 1, 2024 8:59:44 PM / jmiller
Saved By: Mark 1, 2024 8:57:05 PM / jmiller

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

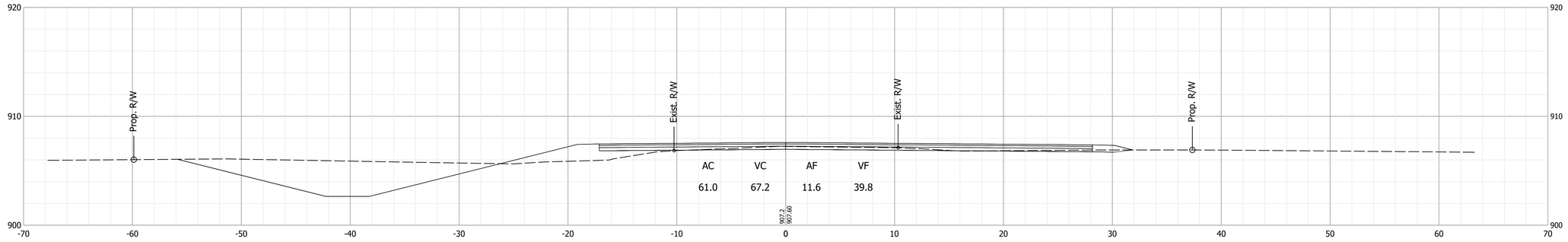
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

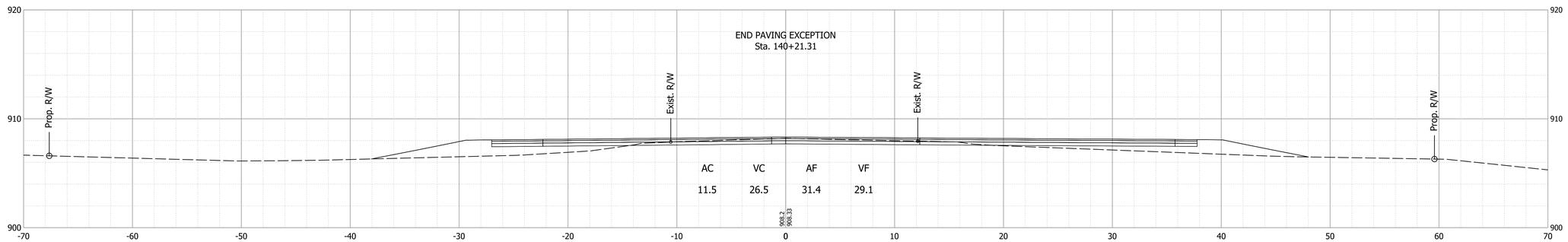
Lochmueller Group, Inc.

SHEET 78
OF 101

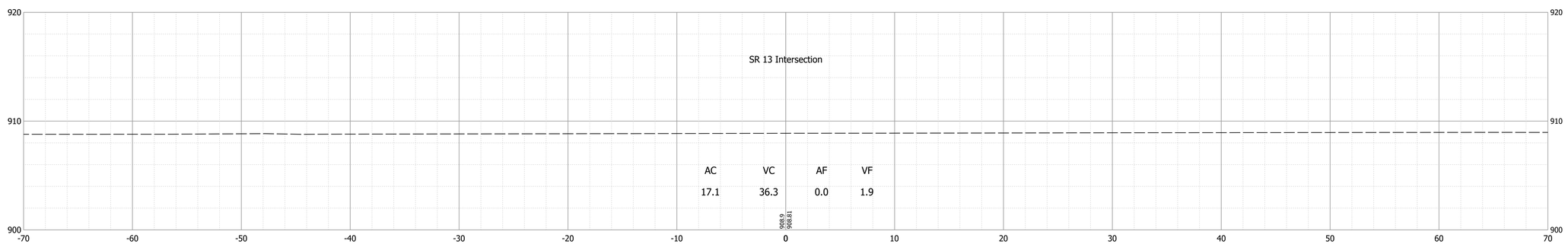
141+00



140+50



140+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

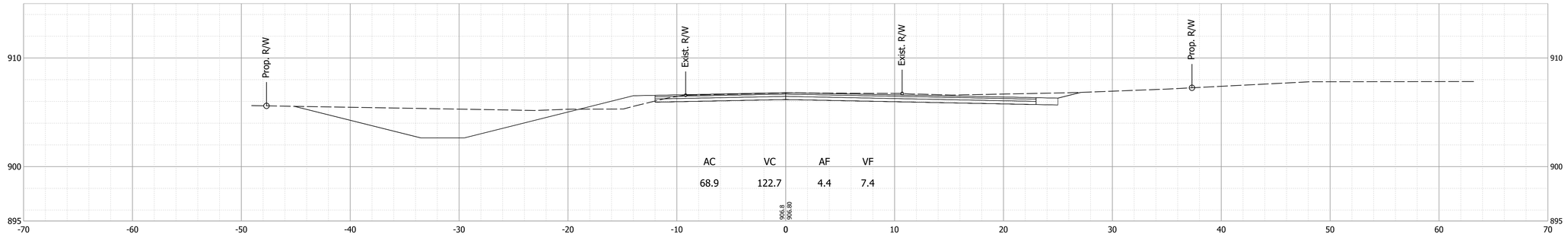
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

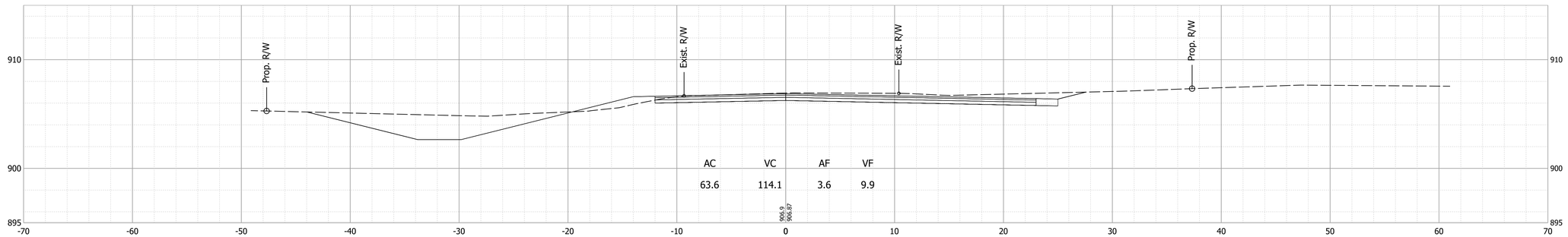
SHEET 79
OF 101

File Name: I:\Projects\Projects\2022\13_DMD\PLAN\Sheets\Sheet_CRSS.dwg Section Sheet (-28)
Model By: March 1, 2024 8:55:44 PM JJ Holiday
Sheet By: March 1, 2024 8:55:51 PM JJ Holiday_adf

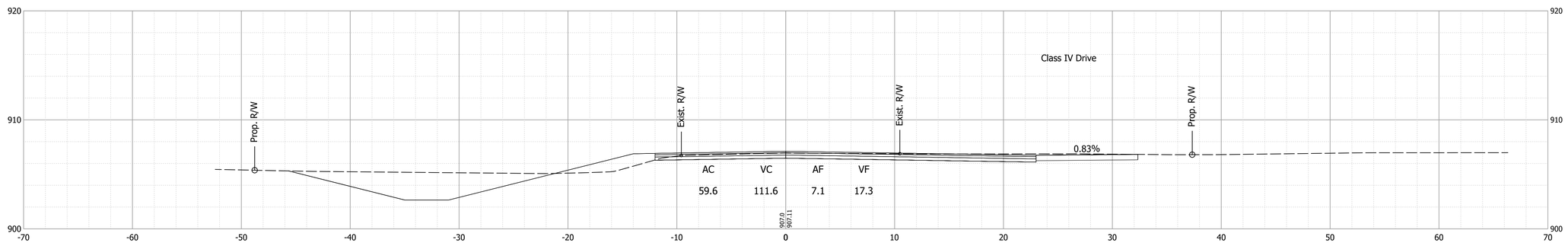
142+50



142+00



141+50



File Name: X:\Projects\Middlebury\Civil\MOPlan\SheetSet\Sheet_CROSS.dwg Section Sheet - (09)
Modified By: Djg
Last Saved: 1/30/2024 9:59:44 PM
Plotted: 1/30/2024 10:01:08 PM Middlebury.ctb
Plotted By: djg

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

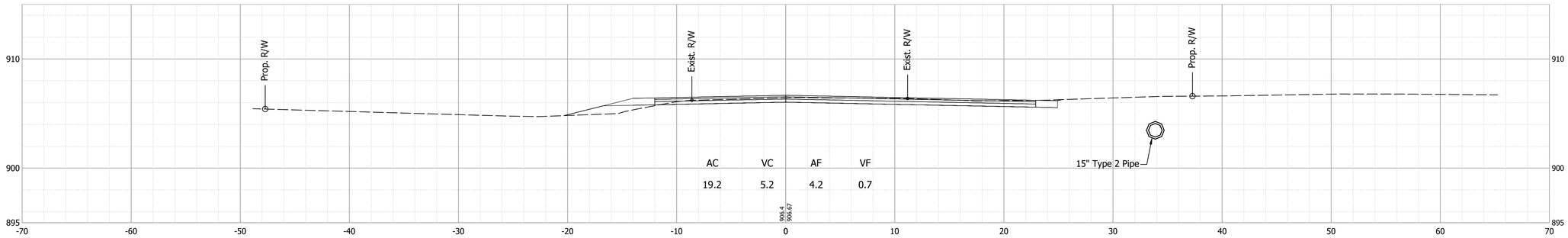
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

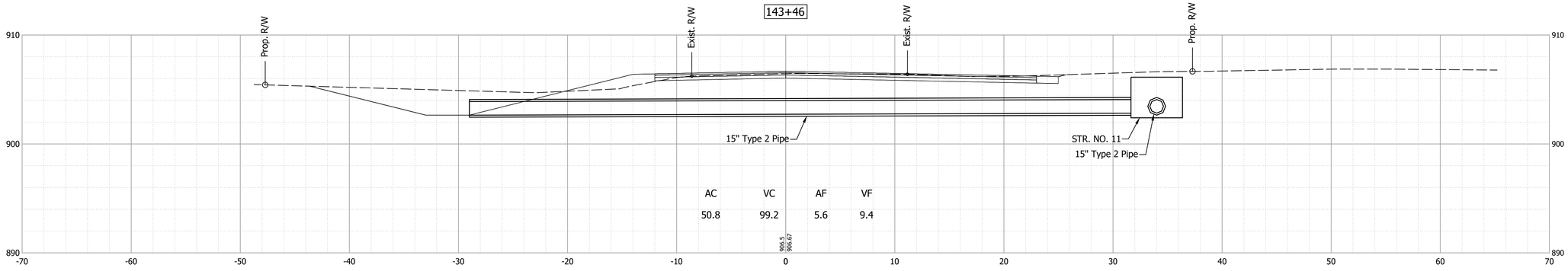
Lochmueller Group, Inc.

SHEET 80
OF 101

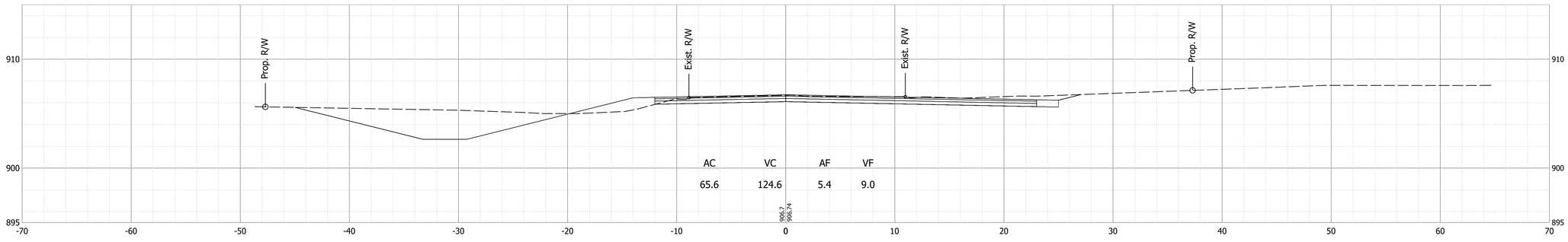
143+50



143+46



143+00



File Name: X:\Transportation\2022\22005\CAD\Civil\Sheets\CrossSheet_CROSS.dwg Section Sheet: (10)
Modified By: Mark T. 2024 3:55:44 PM // mmiley
Plotted By: Mark T. 2024 4:02:06 PM // mmiley.pat

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

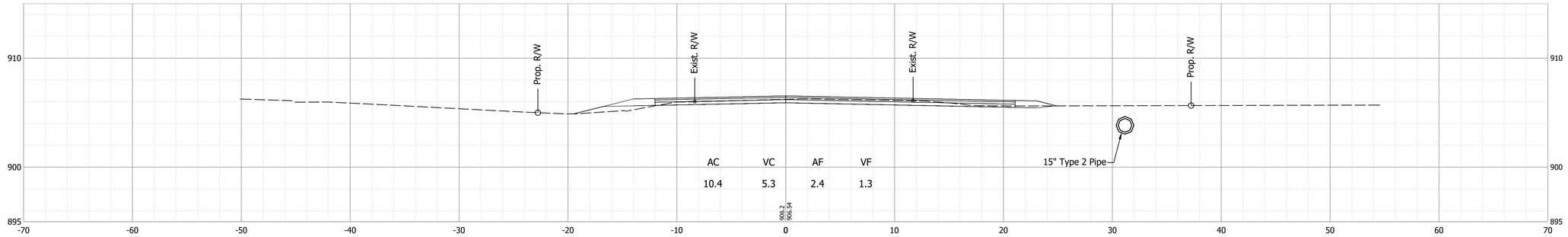
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

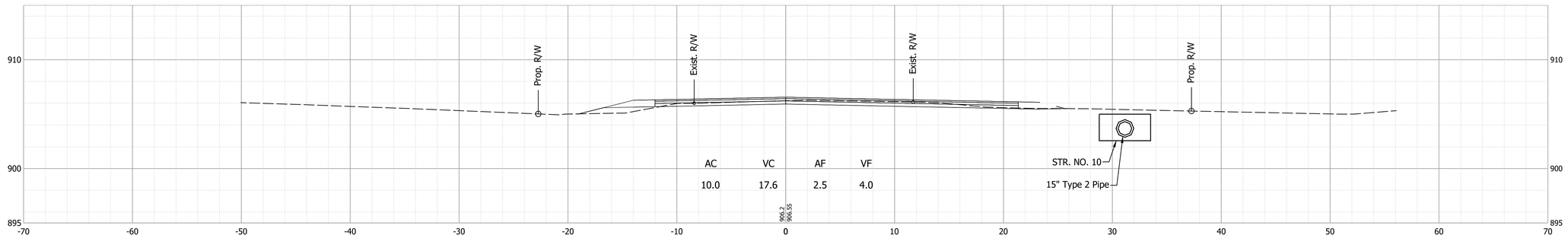
Lochmueller Group, Inc.

SHEET 81
OF 101

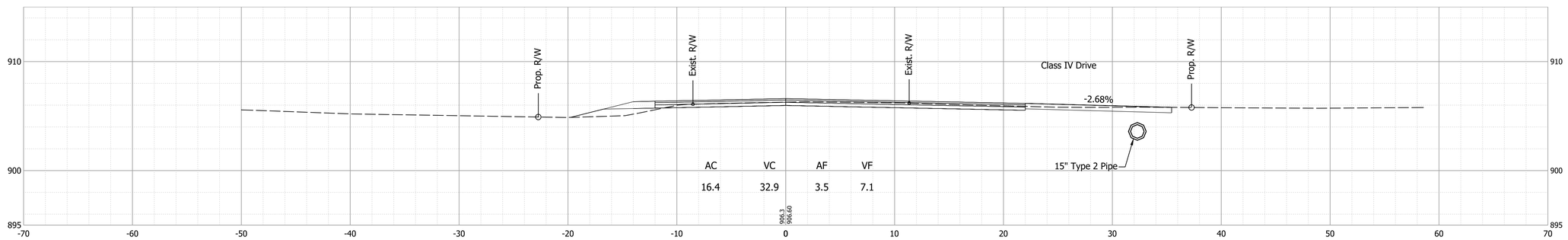
144+50



144+36



144+00



File Name: I:\Projects\Middlebury\22005\CAD\Civil\Sheets\Sheet_CROSS.dwg Plotted By: Plot Date: 2024-5-14 PM / jmobley Layout: 24x36 C ISO full bleed.prf

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

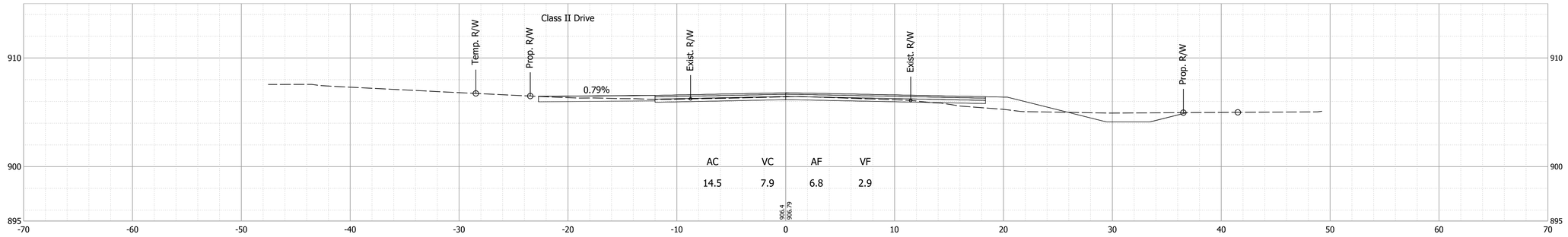
DRAWN: DJG CHK'D: BSS
DESIGNED: JRM APPRV'D: BSS
DATE: 01/30/2024
HORIZ. SCALE: 1" = 5'
VERT. SCALE: 1" = 5'
PROJECT NUMBER 22005

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

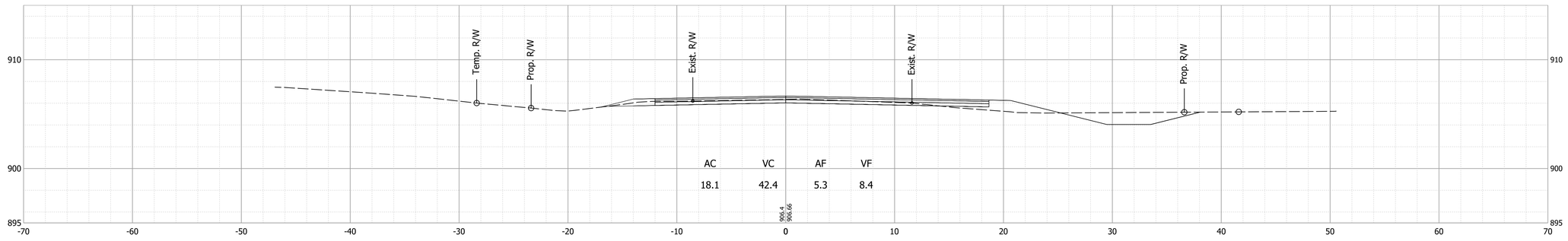
Lochmueller Group, Inc.

SHEET 82
OF 101

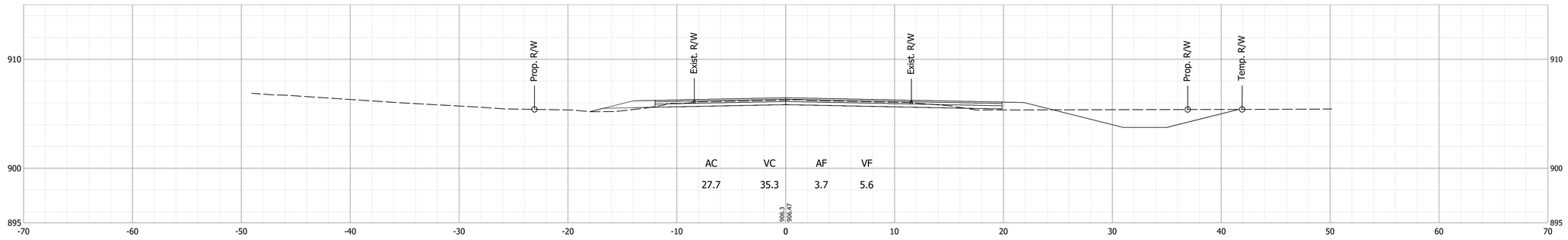
145+63



145+50



145+00



File Name: X:\Projects\Middlebury\01\SURDATA\Roadway\Sheets\Roadway_CROSS.dwg Section Sheet - (10)
Modified By: Mark T. 2024-1-30 8:54:48 PM // roadway
Plotted By: Mark T. 2024-1-30 8:55:00 PM // roadway_cad

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

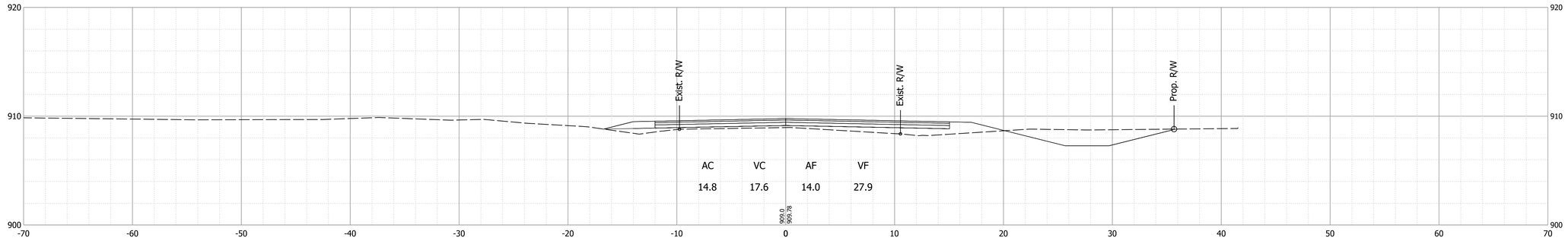
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

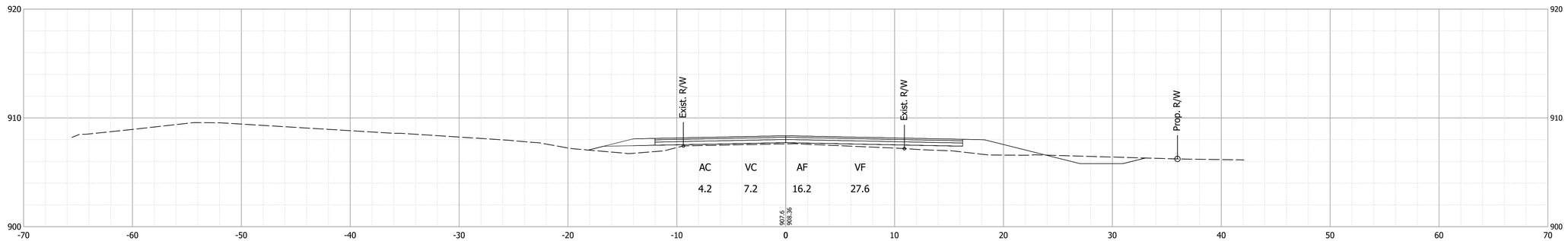
Lochmueller Group, Inc.

SHEET 83
OF 101

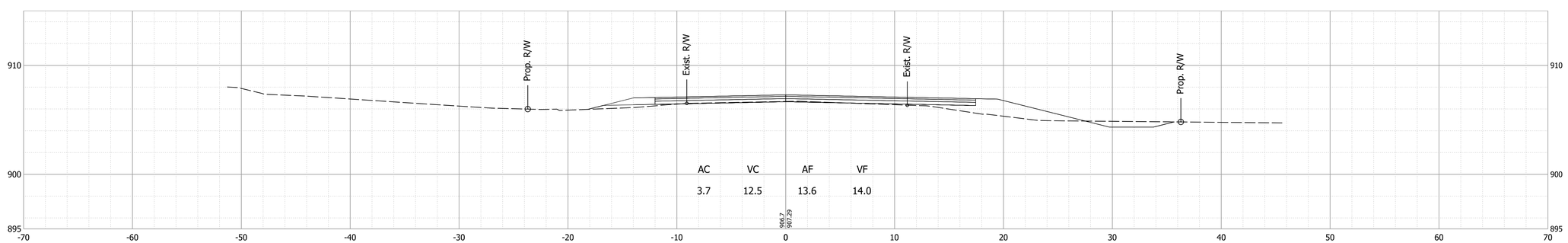
147+00



146+50



146+00



File Name: I:\Projects\Middlebury\22005\CAD\PLOT\Crosssections\Sheet_CROSS.dwg Section Sheet - (3)
Modified By: Mark: 1 2024-5-15 04 PM J Holliday
Mark: 2 2024-5-15 04 PM J Holliday_ad

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

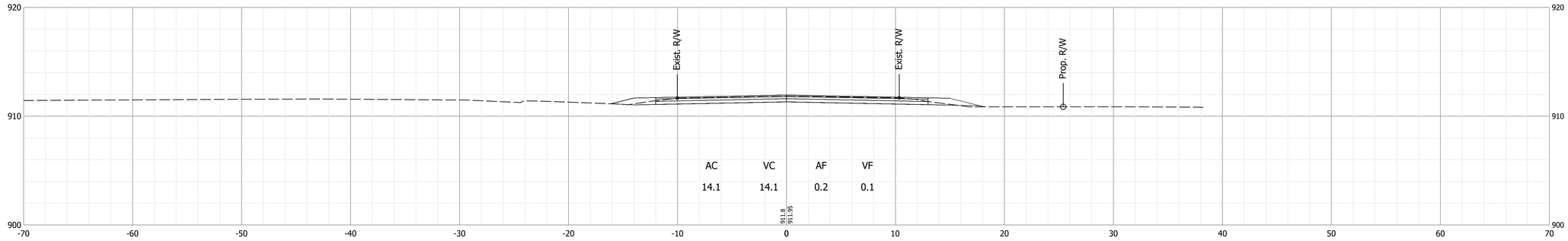
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

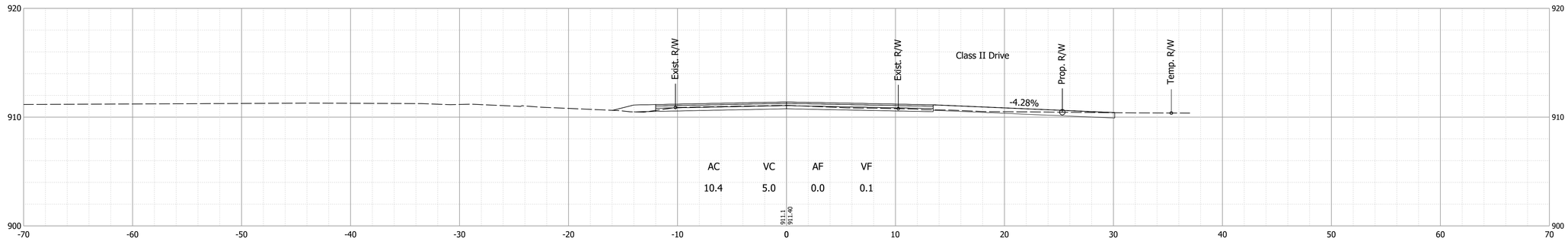
Lochmueller Group, Inc.

SHEET 84
OF 101

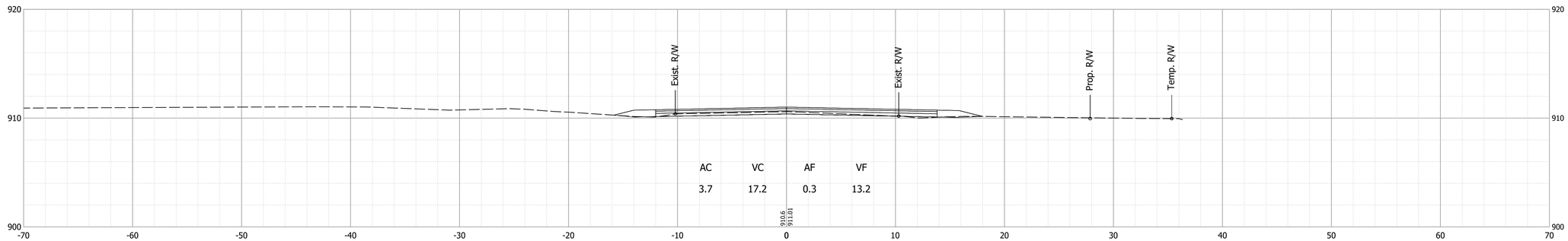
148+00



147+69



147+50



File Name: X:\Projects\Middlebury\22005\CAD\Civil\Sheets\CROSS.dwg
Modified By: Mark T. 2024.01.30 04:17:56 PM
Plotted By: Mark T. 2024.01.30 04:18:04 PM

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

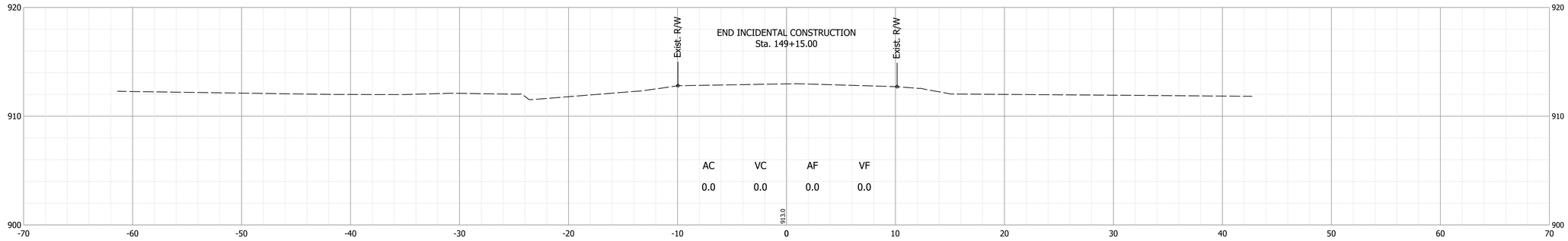
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

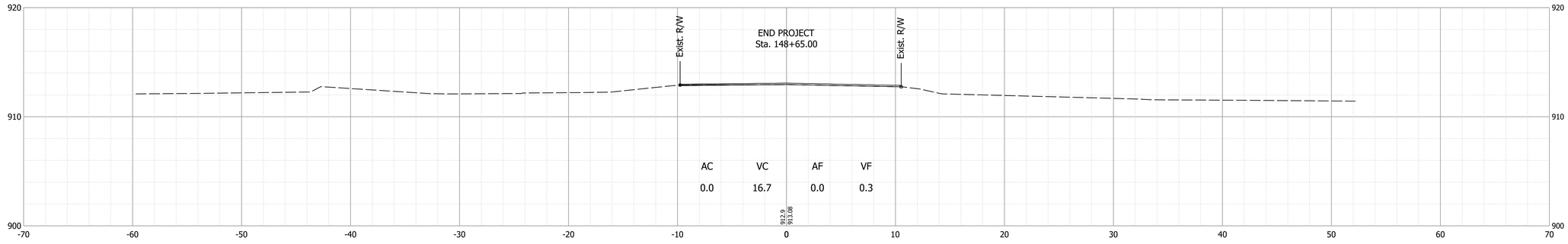
Lochmueller Group, Inc.

SHEET 85
OF 101

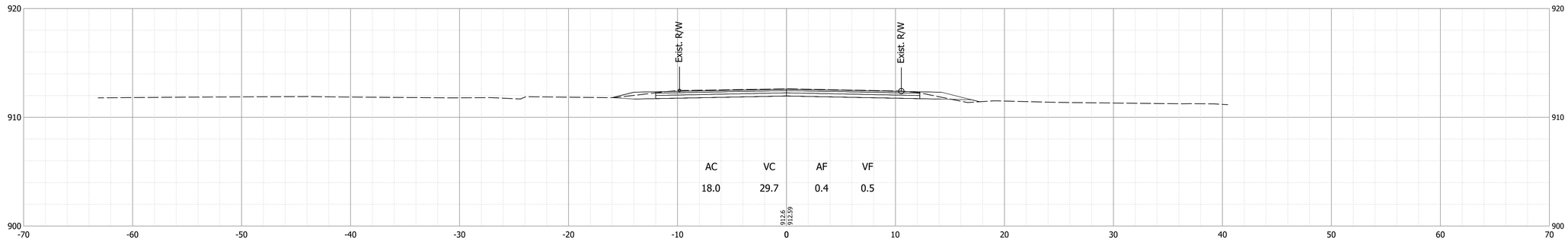
149+50



149+00



148+50



File Name: X:\Projects\Middlebury\22005\PLANS\Construction\Sheet_CROSS.dwg Section Sheet - (SB)
Modified By: Mark T. 2024.10.04 at PM // Holmley
Plotted By: Mark T. 2024.10.04 at PM // Holmley.pet

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-A'

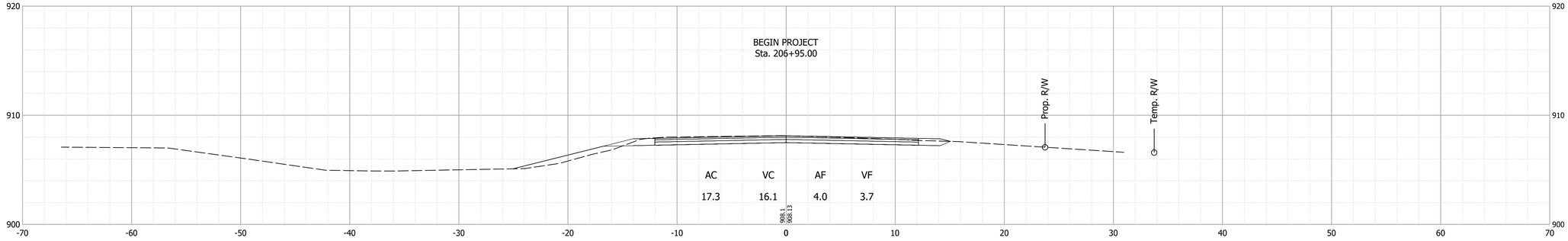
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

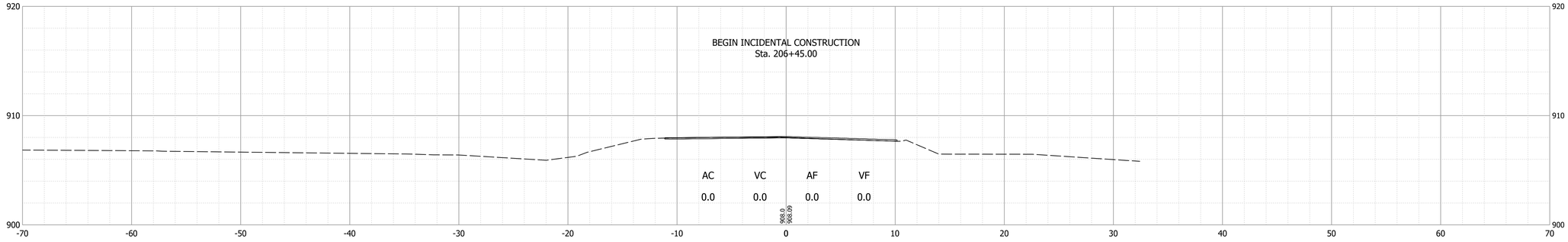
Lochmueller Group, Inc.

SHEET 86
OF 101

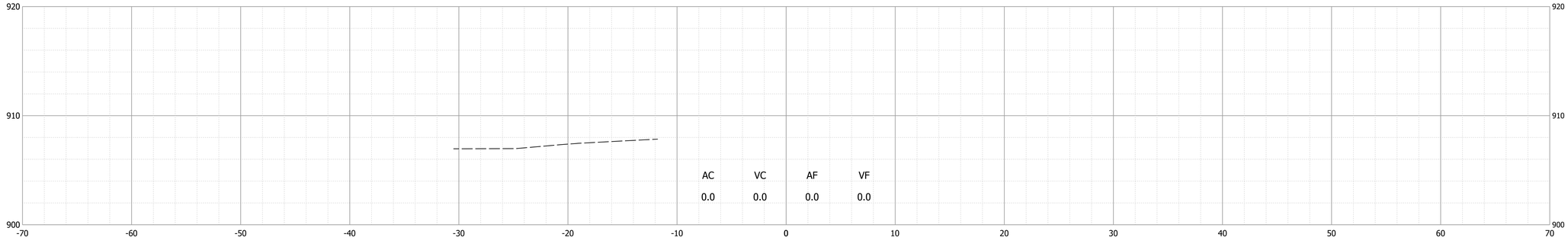
207+00



206+50



206+00



File Name: X:\Projects\P\MIDD\2113.SRAP\CAD\Civil\sheets\Sheet_CS01 - Roadway - CR 31 E.dwg - CS 31 E (class - (t)
Modified By: bss
Modified: March 1 2024 8:59:59 AM
Plotted By: bss
Plotted: March 1 2024 9:01:16 AM

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

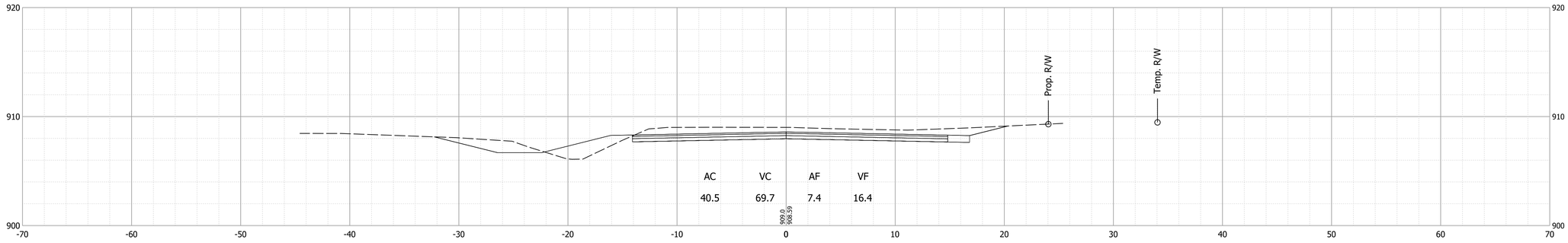
DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

NO.	REVISION	BY	DATE

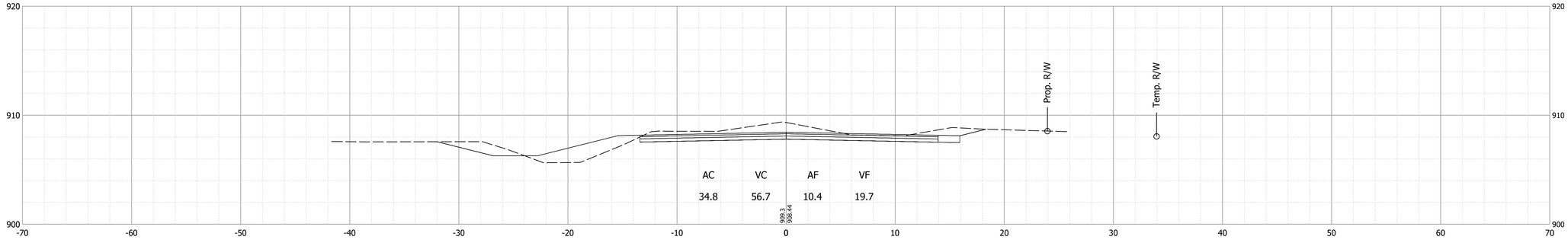
Lochmueller Group, Inc.

SHEET 87
OF 101

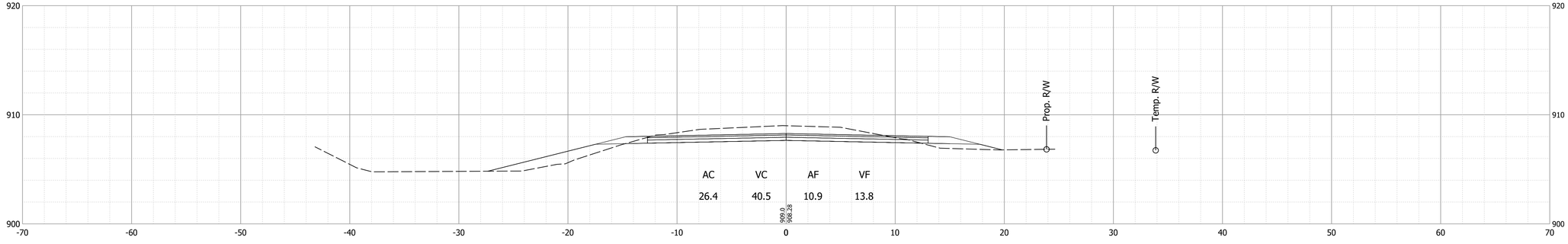
208+50



208+00



207+50



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

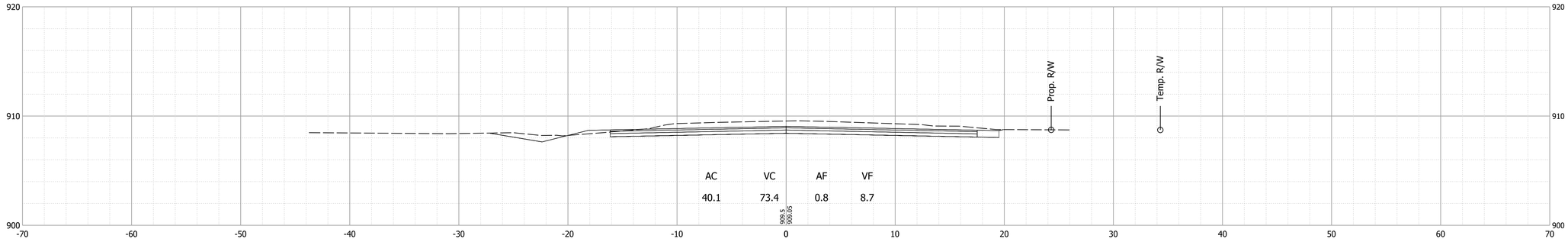
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

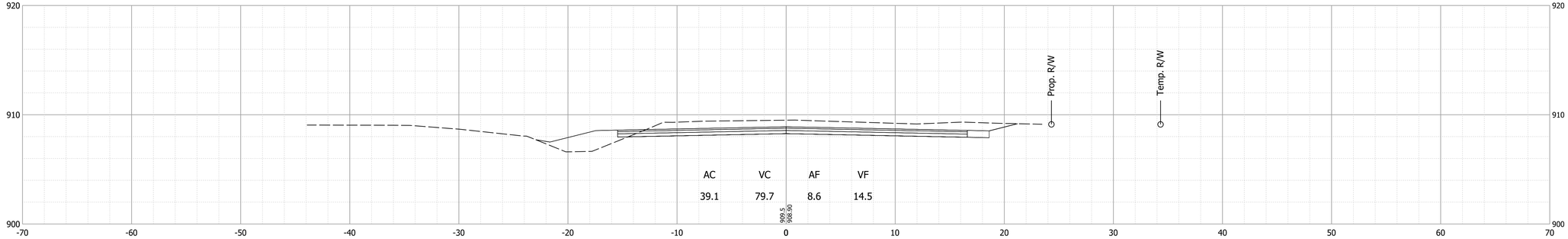
SHEET 88
OF 101

File Name: X:\Projects\Middlebury\2022\22005\CAD\Civil\Cross Sections\22005_Cross Sections - Middlebury.dwg
Modified By: Jeffrey.Mitchell
Modified On: 2/2/2024 8:58:39 AM
Plotted By: Jeffrey.Mitchell
Plotted On: 2/2/2024 8:59:01 AM

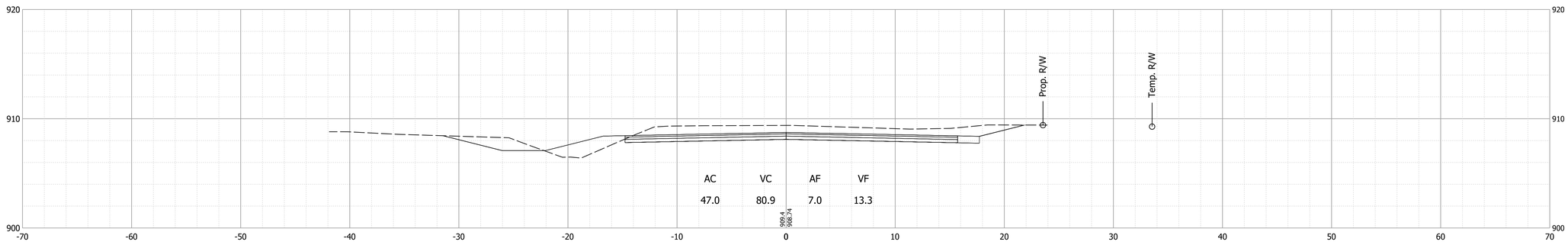
210+00



209+50



209+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG CHK'D: BSS
DESIGNED: JRM APPRV'D: BSS
DATE: 01/30/2024
HORIZ. SCALE: 1" = 5'
VERT. SCALE: 1" = 5'
PROJECT NUMBER 22005

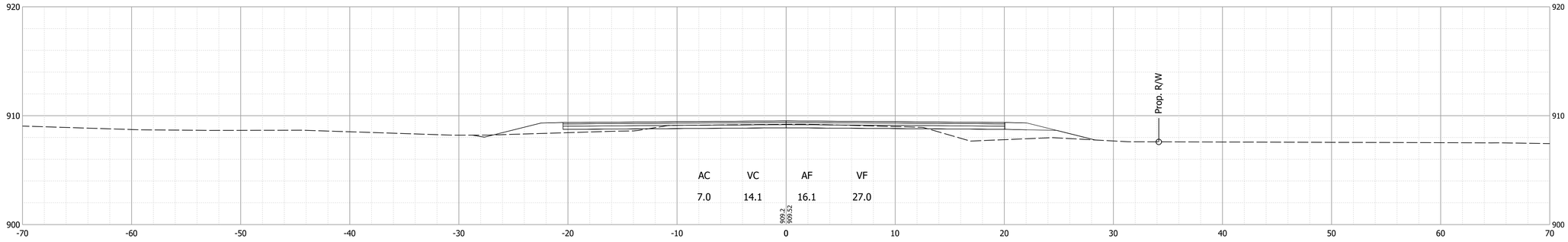
NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			

Lochmueller Group, Inc.

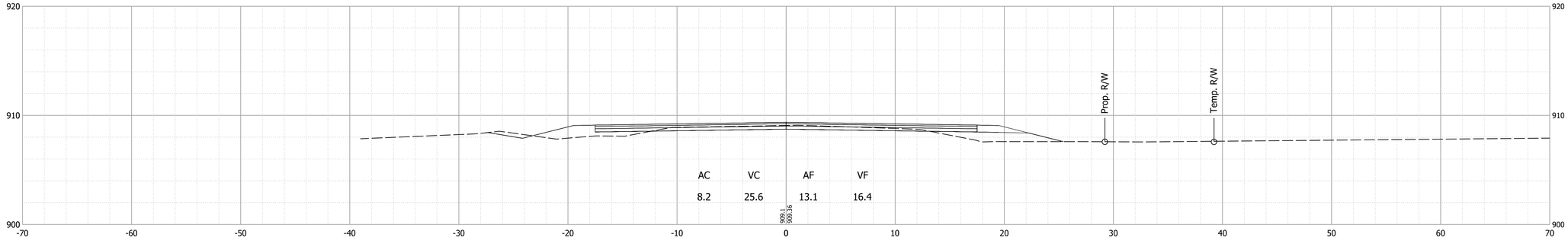
SHEET 89
OF 101

File Name: X:\Projects\Projects\2021\21-XXXX\CAD\Civil\Sheets_CRSP - Scale-Hwy - 24 X 36 Sheet - (I)
Modified By: Kevin J. Hall 8:30:00 AM / monday, March 1 2004
Plotted By: Kevin J. Hall 8:30:00 AM / monday, March 1 2004

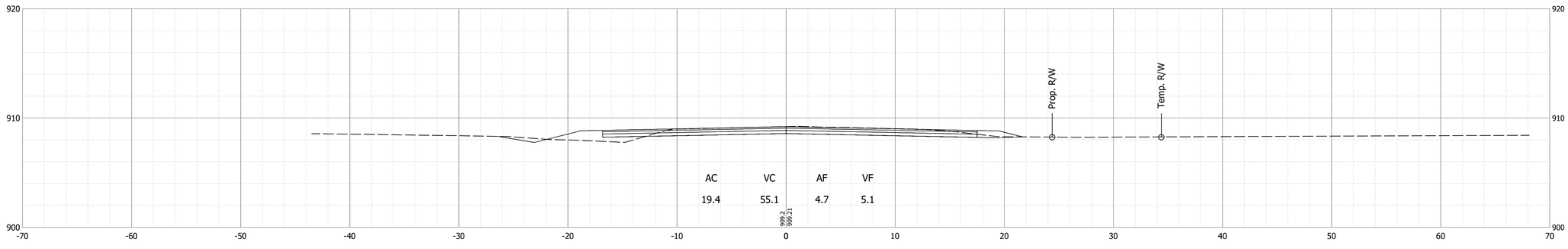
211+50



211+00



210+50



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

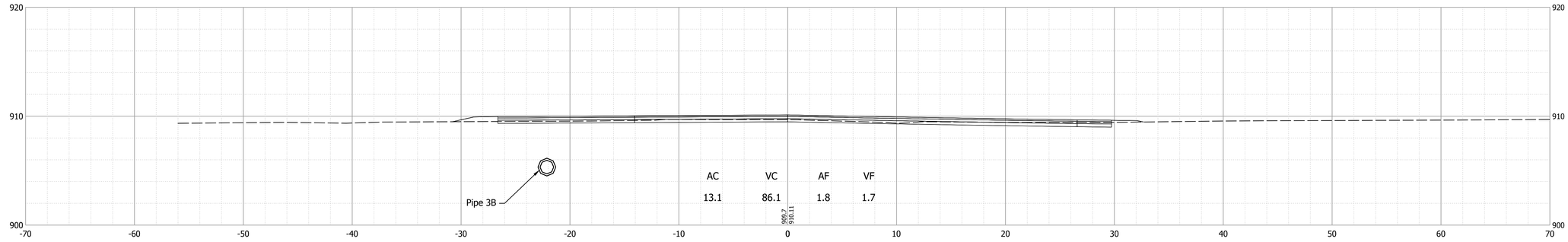
NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

Lochmueller Group, Inc.

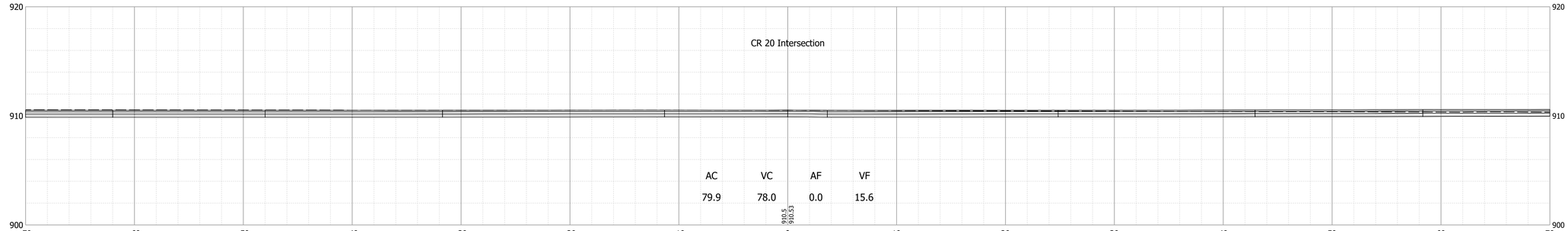
SHEET 90
OF 101

File Name: C:\Projects\Plan sets\211-22\PDS\Cad\sheets\sheet_CS01 - Scale key - C5 F 9.50in - H
Date/Time: 1/30/2024 8:55:09 AM
Design By: Matrix - 2024.4 R3 (64 bit) / jmelley
Layout By: Matrix - 2024.4 R3 (64 bit) / jmelley .wpf

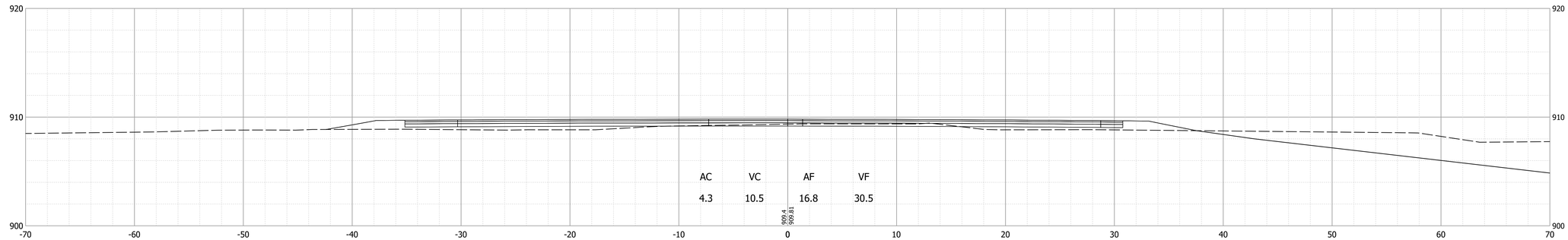
213+00



212+50



212+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS
DESIGNED: JRM	APPRV'D: BSS
DATE: 01/30/2024	
HORIZ. SCALE: 1" = 5'	
VERT. SCALE: 1" = 5'	
PROJECT NUMBER 22005	

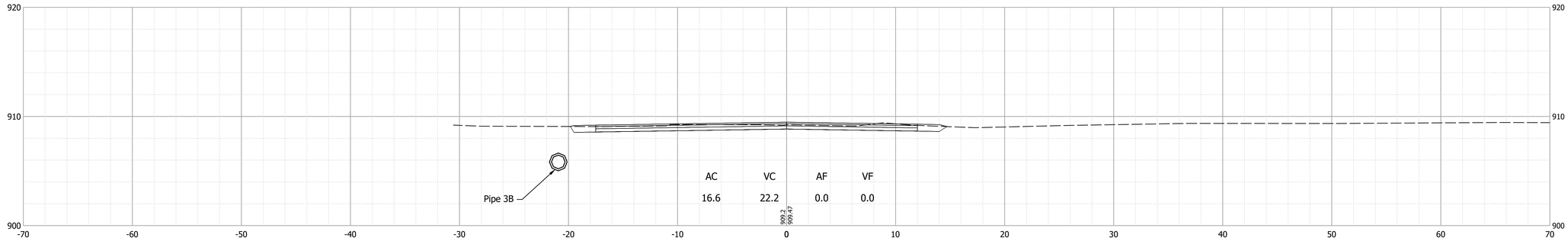
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

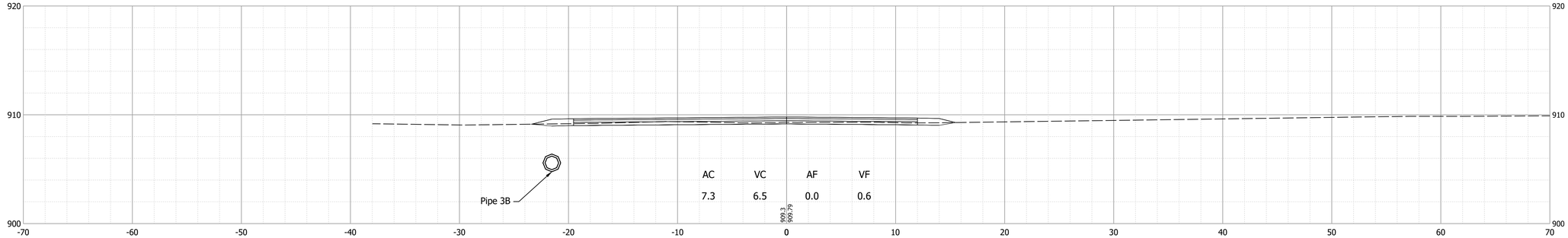
SHEET 91
OF 101

File Name: K:\Projects\Planning\22005\13 DESIGN\CAD\Sheets\Sheet_CROP - Booth Hwy - CR 17 @ S Sheet - 01
Modified By: Mark's 12/04 8:30:00 AM / mmiller
Plotted By: Mark's 12/04 8:31:00 AM / mmiller_cat

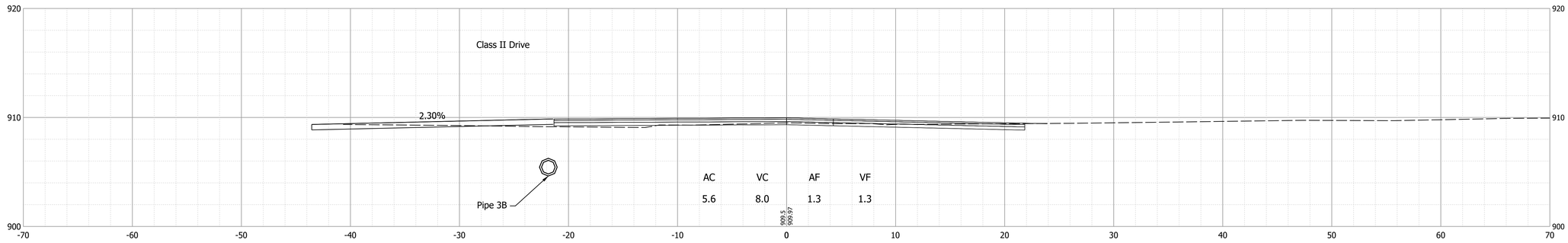
214+00



213+50



213+23



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

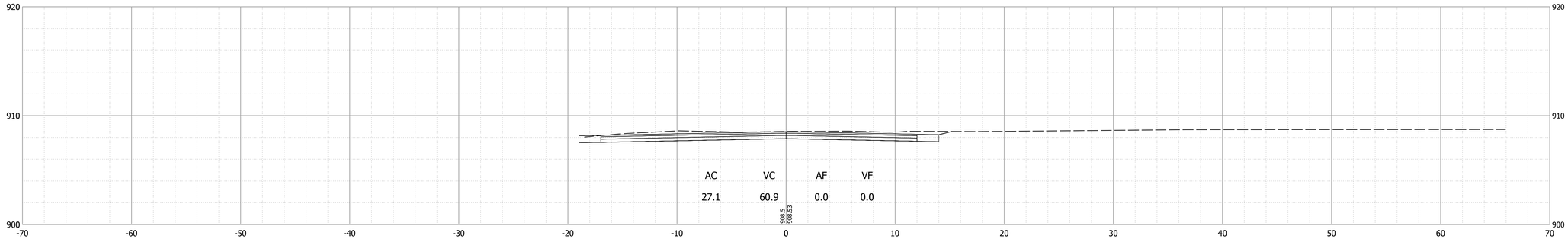
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

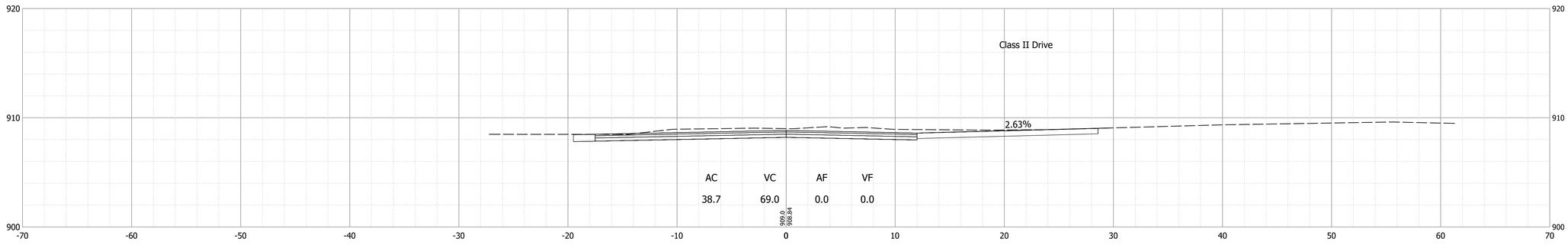
SHEET 92
OF 101

File Name: K:\Projects\Planning\22005\13 SHEETS\Roadway\Sheets\CROSS - Road Prop - CR 17 @ SR 13.dwg
Modified By: Mar/m 1 2024 8:30:20 AM / jmobley
Plotted By: Mar/m 1 2024 8:31:01 AM / jmobley

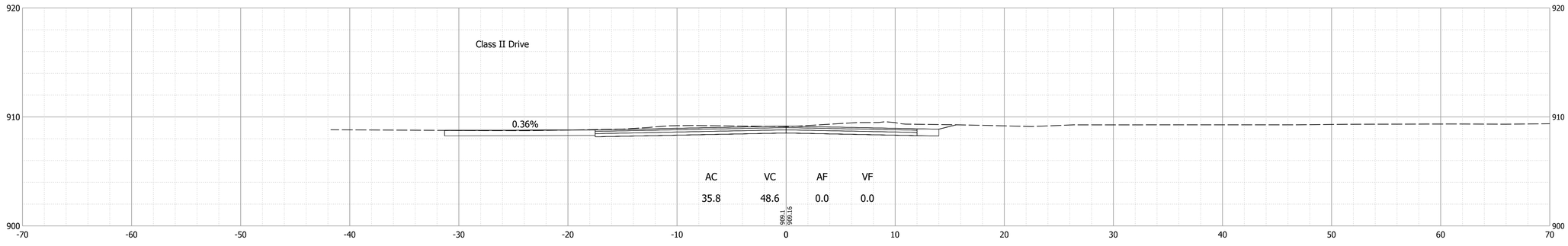
215+50



215+00



214+50



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

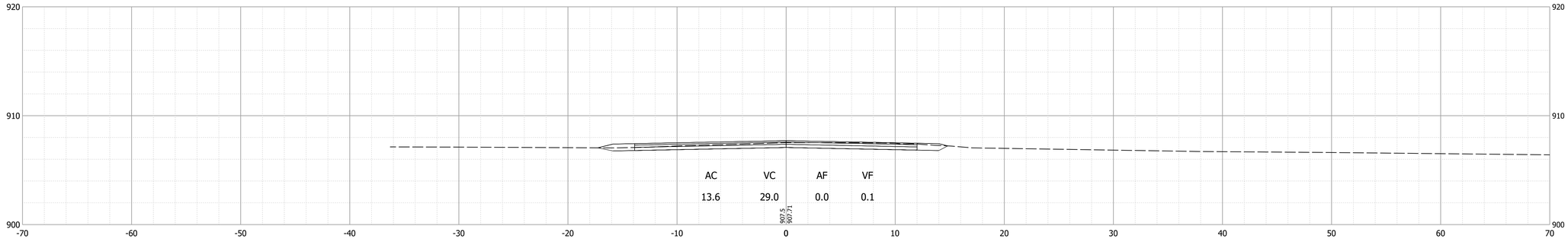
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

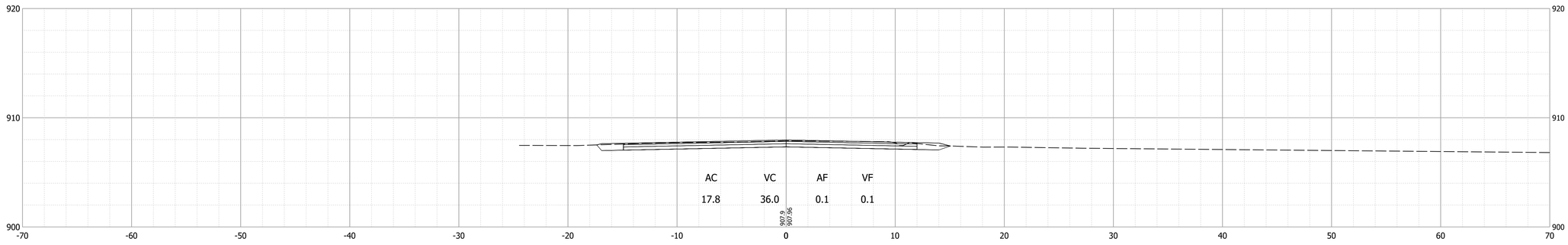
SHEET 93
OF 101

File Name: X:\Projects\Middlebury\IN_MIDDLE\Civil\models\Sheet_CREP - Road.dwg - CR-07 B Sheet - 07
Modified By: Mark Y. 2024 8:30:30 AM
Plotted By: Mark Y. 2024 8:30:42 AM // mmiley
Plotted By: mmiley // mmiley.ctb

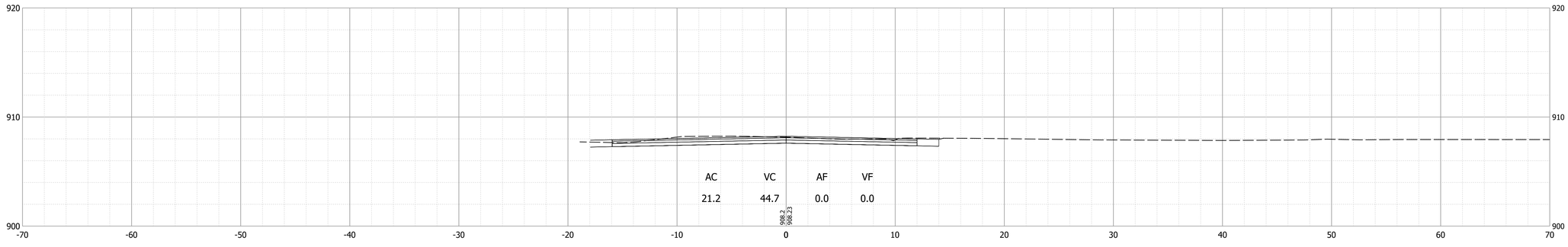
217+00



216+50



216+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

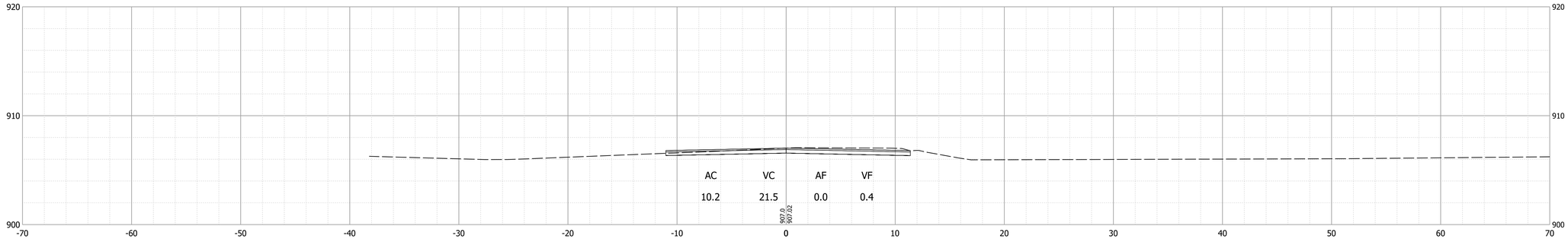
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

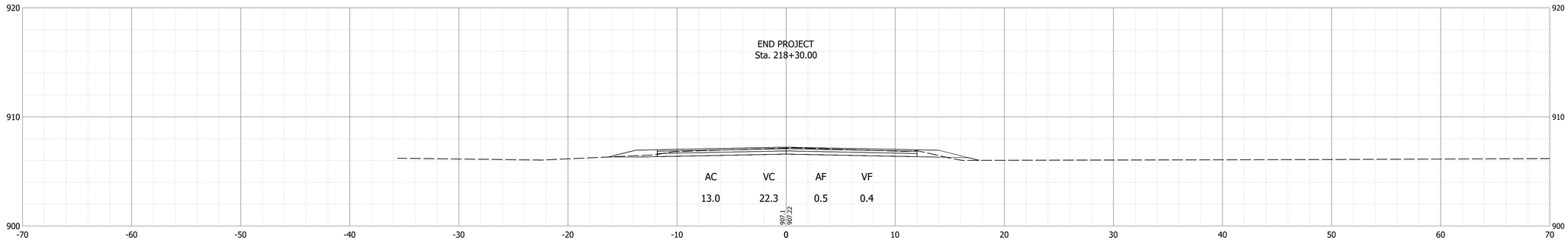
SHEET 94
OF 101

File Name: X:\Projects\Middlebury\Civil\Sheets\CrossSections_PRB.dgn - Sheet Map - CRS P 9 Sheet - (B)
Modified By: Mark Schlabach
Plotted: Mar 1, 2024 at 8:30:30 AM // mschlabach
Plotted By: X:\Projects\Middlebury\Civil\Sheets\CrossSections_PRB.dgn

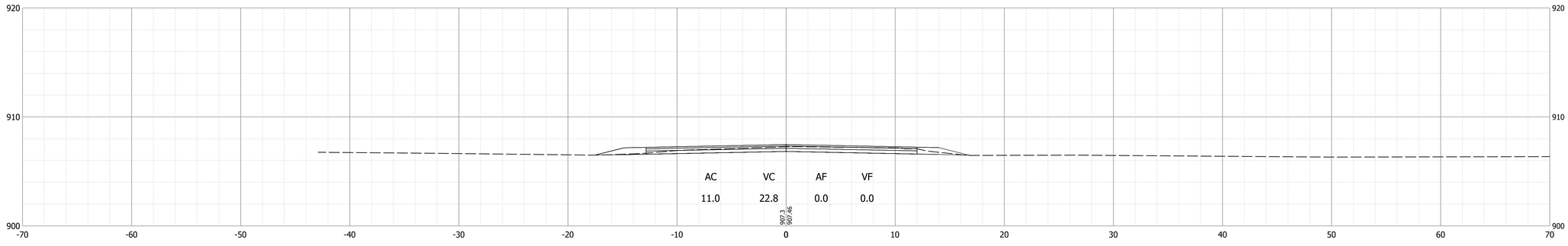
218+50



218+00



217+50



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

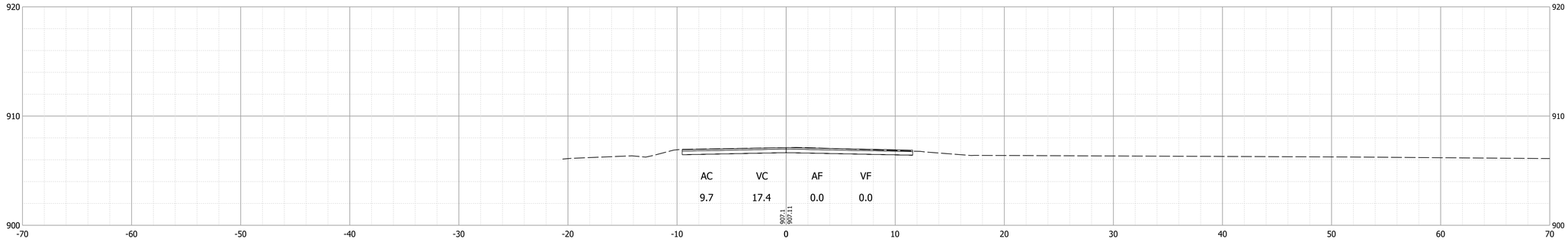
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

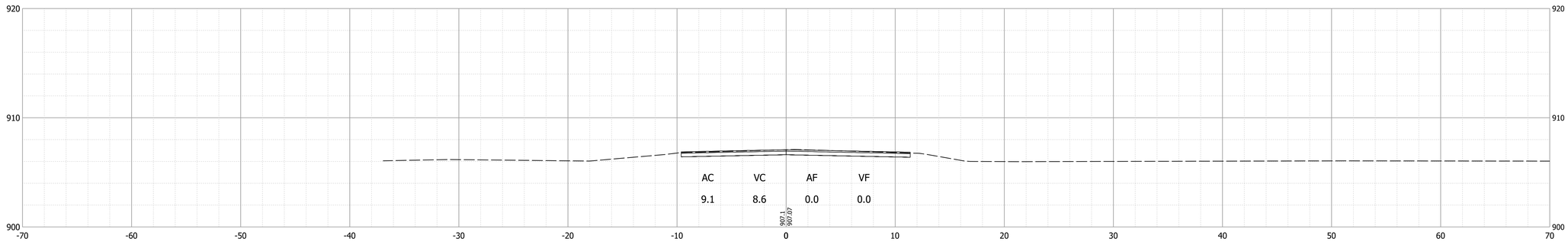
SHEET 95
OF 101

File Name: X:\Projects\Middlebury\IN_MIDDLE\Roadway\Sheets\XSect_PRB1.dgn
Modified By: Mark T. 2024-4-8 8:30:38 AM
Plotted By: Mark T. 2024-4-8 8:30:49 AM

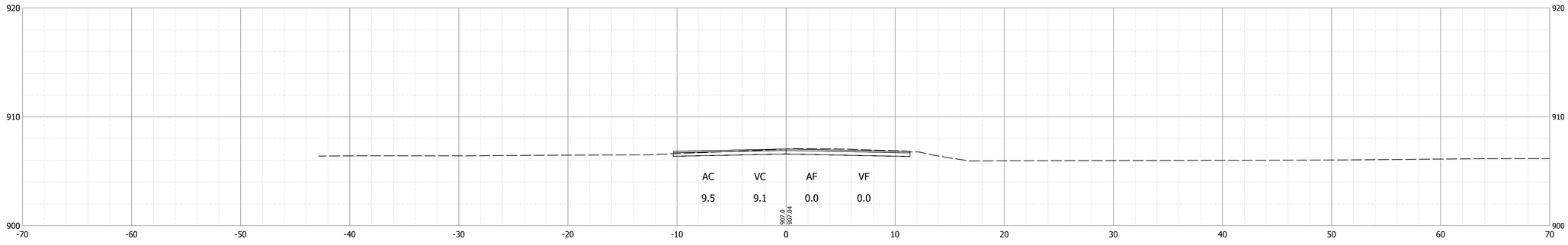
219+50



219+00



218+75



File Name: X:\Projects\Middlebury IN\2022\22005\Roadway\Sheets\CROSS SECTIONS LINE 'PR-B'.dwg
Modified By: Jeremy
Modified On: 1/30/2024 8:50:00 AM
Plotted On: 1/30/2024 8:50:19 AM
Plotted By: Jeremy
Plot Scale: 1.0000 '/ Unit
Plot Style: Lochmueller.ctb

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

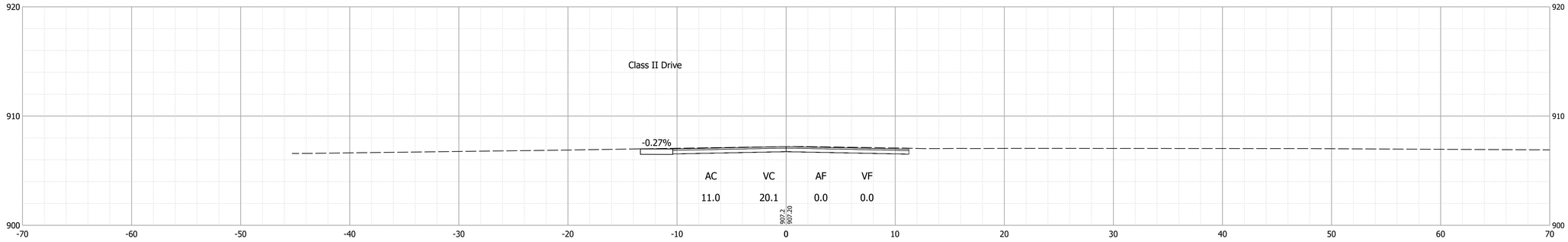
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

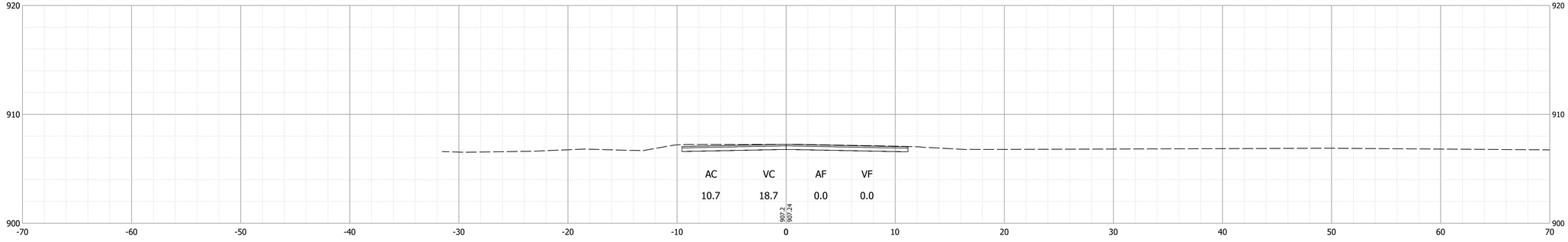
Lochmueller Group, Inc.

SHEET 96
OF 101

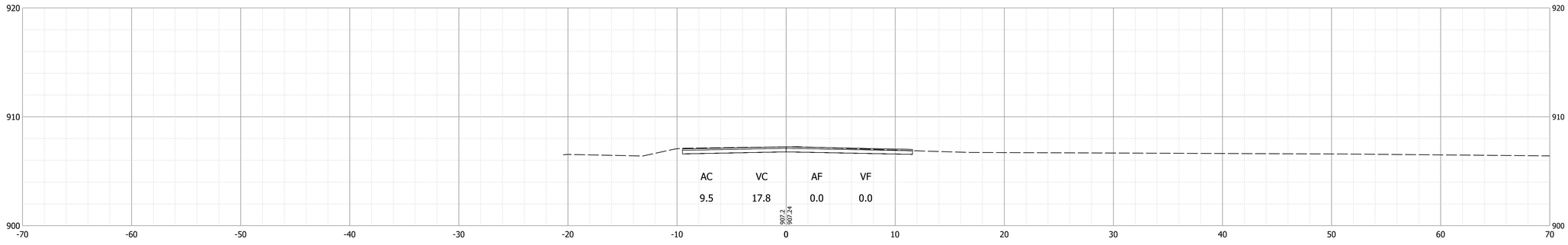
221+00



220+50



220+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

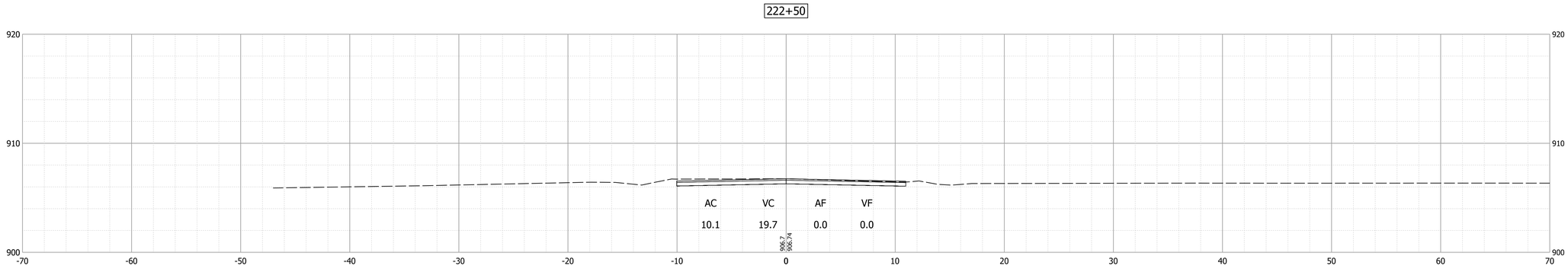
DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

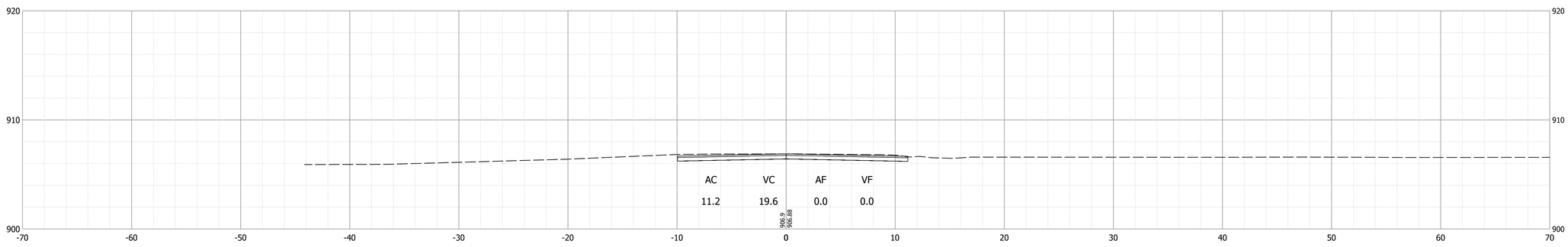
NO.	REVISION	BY	DATE

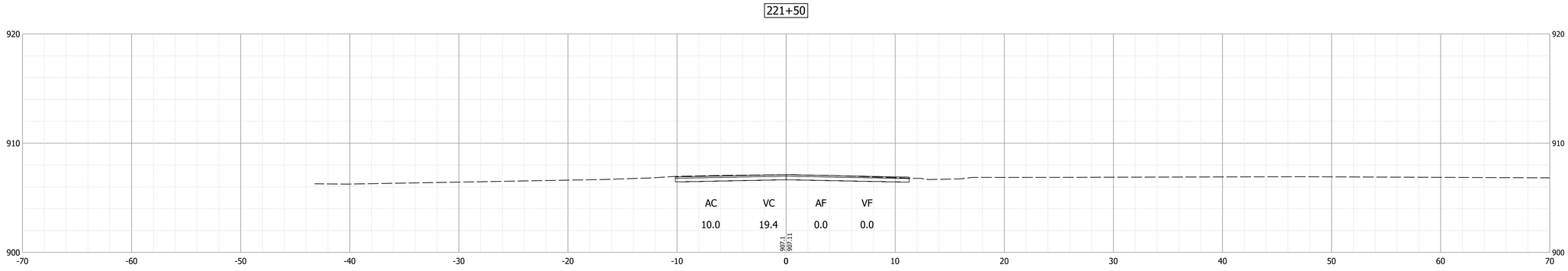
Lochmueller Group, Inc.

SHEET 97
OF 101

File Name: X:\Projects\Middlebury IN\2022\22005\Roadway\Sheets\PR01 - Roadway - CS 01 B Sheet - (1).dgn
Modified By: Mark Y. 2024-4-8 8:30:30 AM
Plotted By: Mark Y. 2024-4-8 8:30:44 AM // Hensley, Jeff







MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

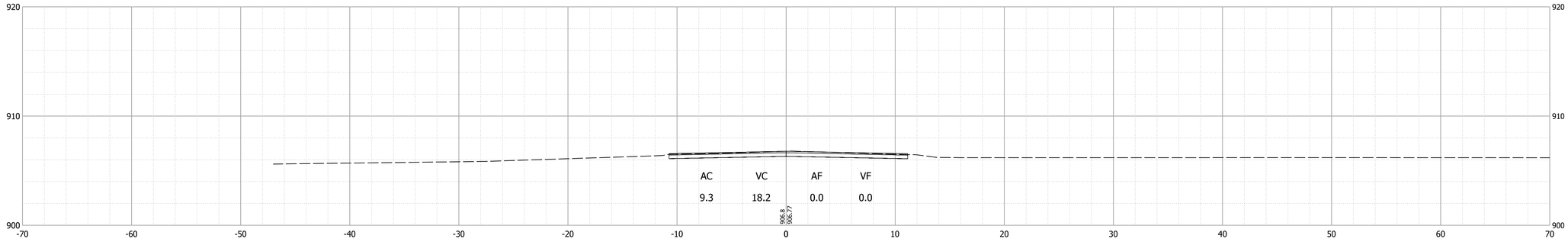
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

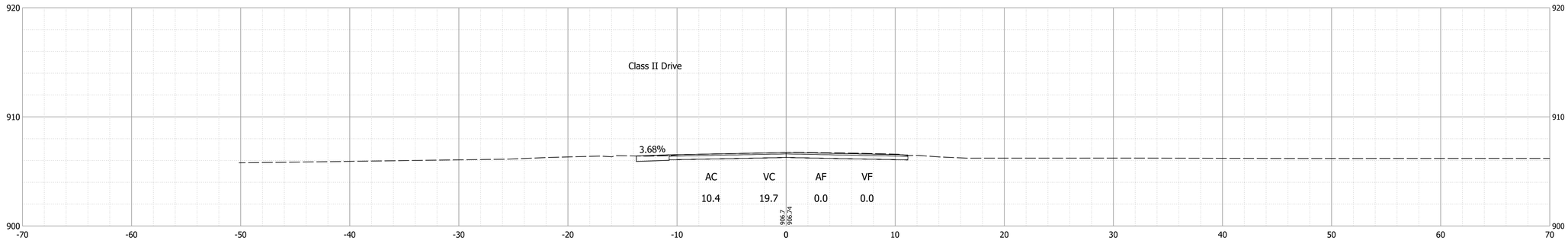
SHEET 98
OF 101

File Name: X:\Projects\Middlebury IN\2022 LPA\MIDDLEBURY\Roadway\Sheets\CROSS SECTIONS LINE 'PR-B'.dwg
Modified By: Mark T. 2024-4-8 8:30 AM // mmiley
Plotted By: Mark T. 2024-4-8 8:31 AM // mmiley

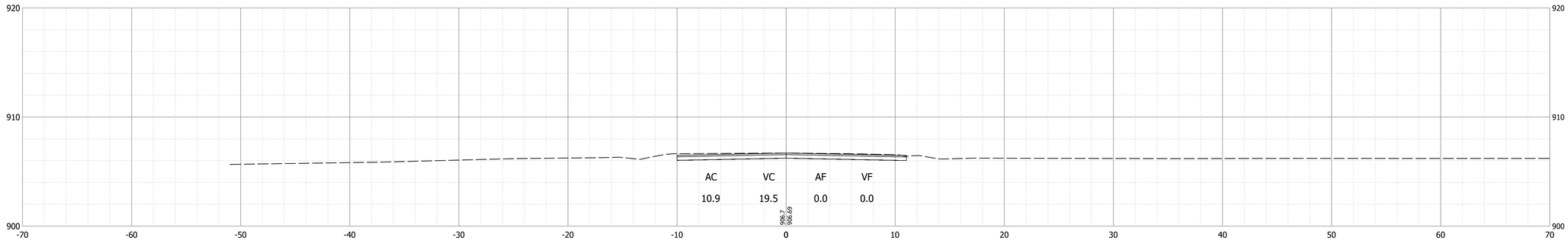
224+00



223+50



223+00



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

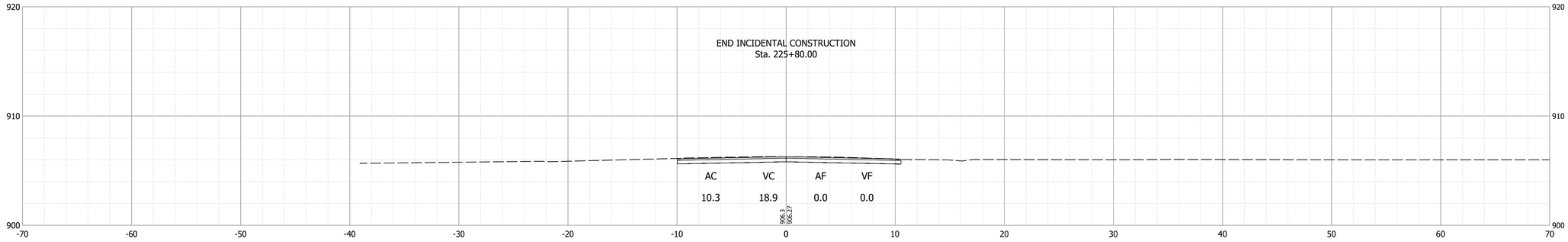
NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

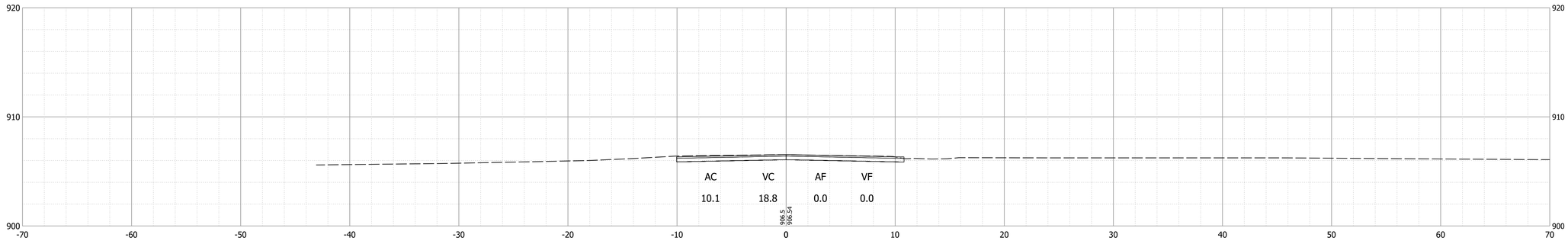
SHEET 99
OF 101

File Name: X:\Projects\Middlebury\Civil\Plan&Prof\Roadway\Sheets\XSect_PR2F - Sheet.dwg - CRS F 9 Sheet (10)
Modified By: jmorley
Plotted By: jmorley
Date/Time: Mon Jan 29 2024 08:30 AM

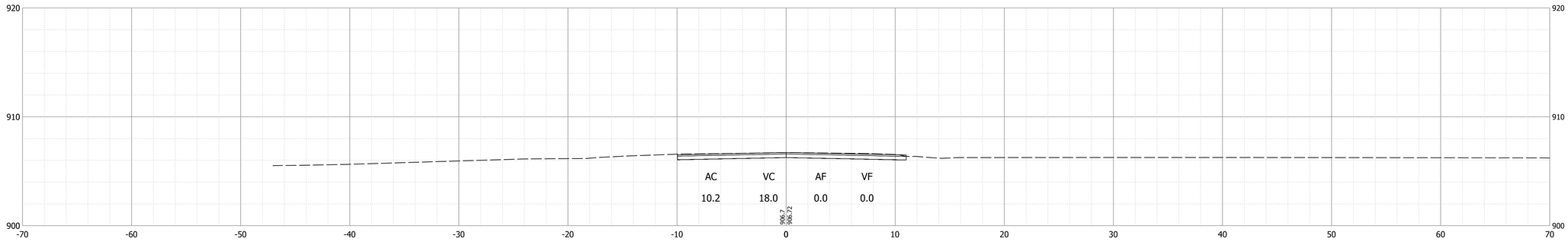
225+50



225+00



224+50



File Name: X:\Projects\Middlebury\Civil\Sheets\CrossSections_PR-B'.dwg
Modified By: Modified On: 1/30/24 8:50:30 AM
Plotted By: Plotted On: 1/30/24 8:50:33 AM

MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

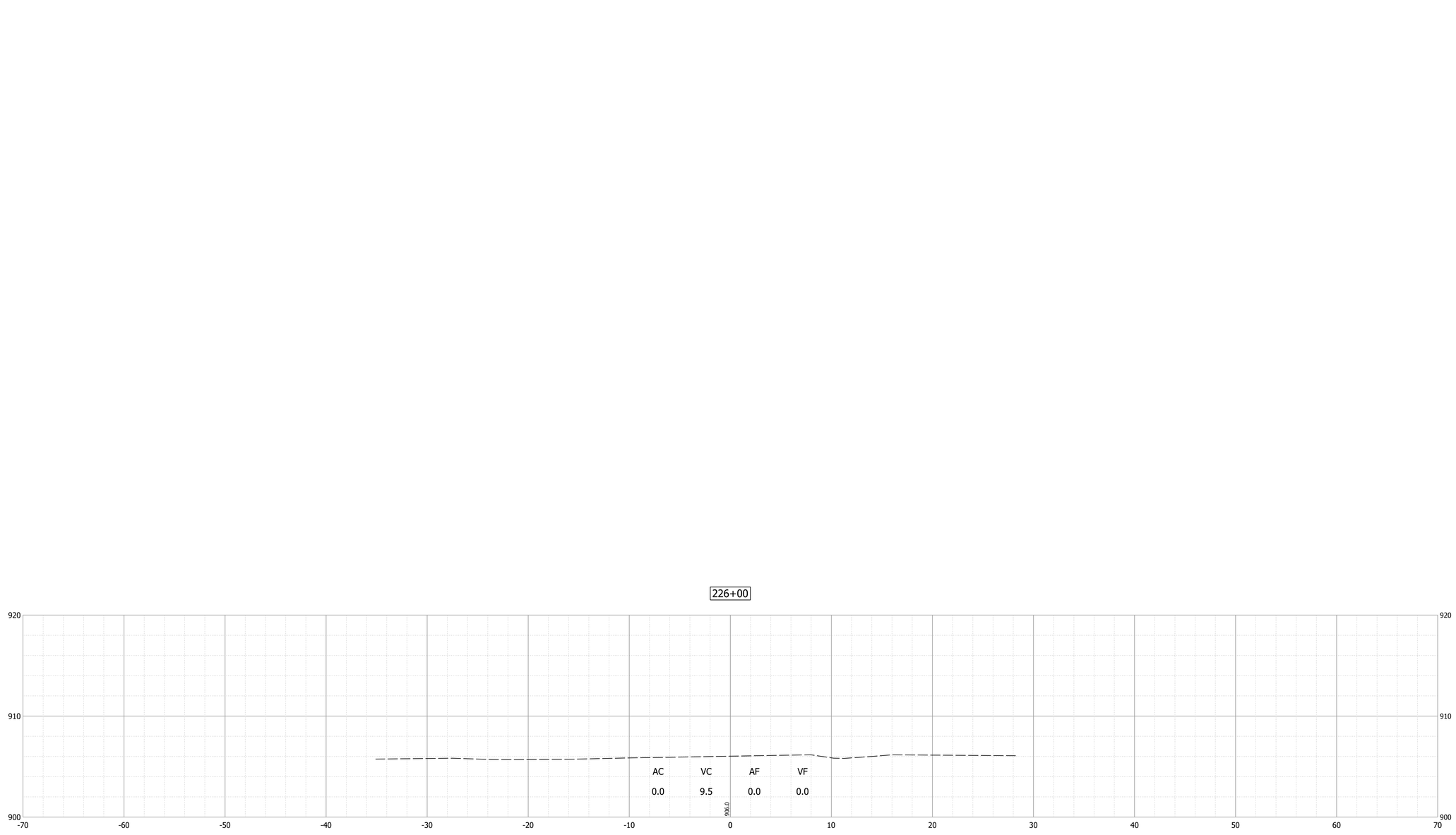
CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

SHEET 100
OF 101



MIDDLEBURY INDIANA

MIDDLEBURY INTERSECTION IMPROVEMENTS

CROSS SECTIONS LINE 'PR-B'

DRAWN: DJG	CHK'D: BSS		
DESIGNED: JRM	APPRV'D: BSS		
DATE: 01/30/2024			
HORIZ. SCALE: 1" = 5'			
VERT. SCALE: 1" = 5'			
PROJECT NUMBER 22005			

NO.	REVISION	BY	DATE

Lochmueller Group, Inc.

SHEET 101
OF 101

File Name: X:\Projects\Middlebury IN_MADCAP\Roadway\Sheets\XSect_CRSP - Roadway - CR 37 @ S Main - (18)
Modified By: Mark Y. 2024-4-8 8:30:38 AM // mmiley
Plotted By: Mark Y. 2024-4-8 8:30:44 AM // mmiley