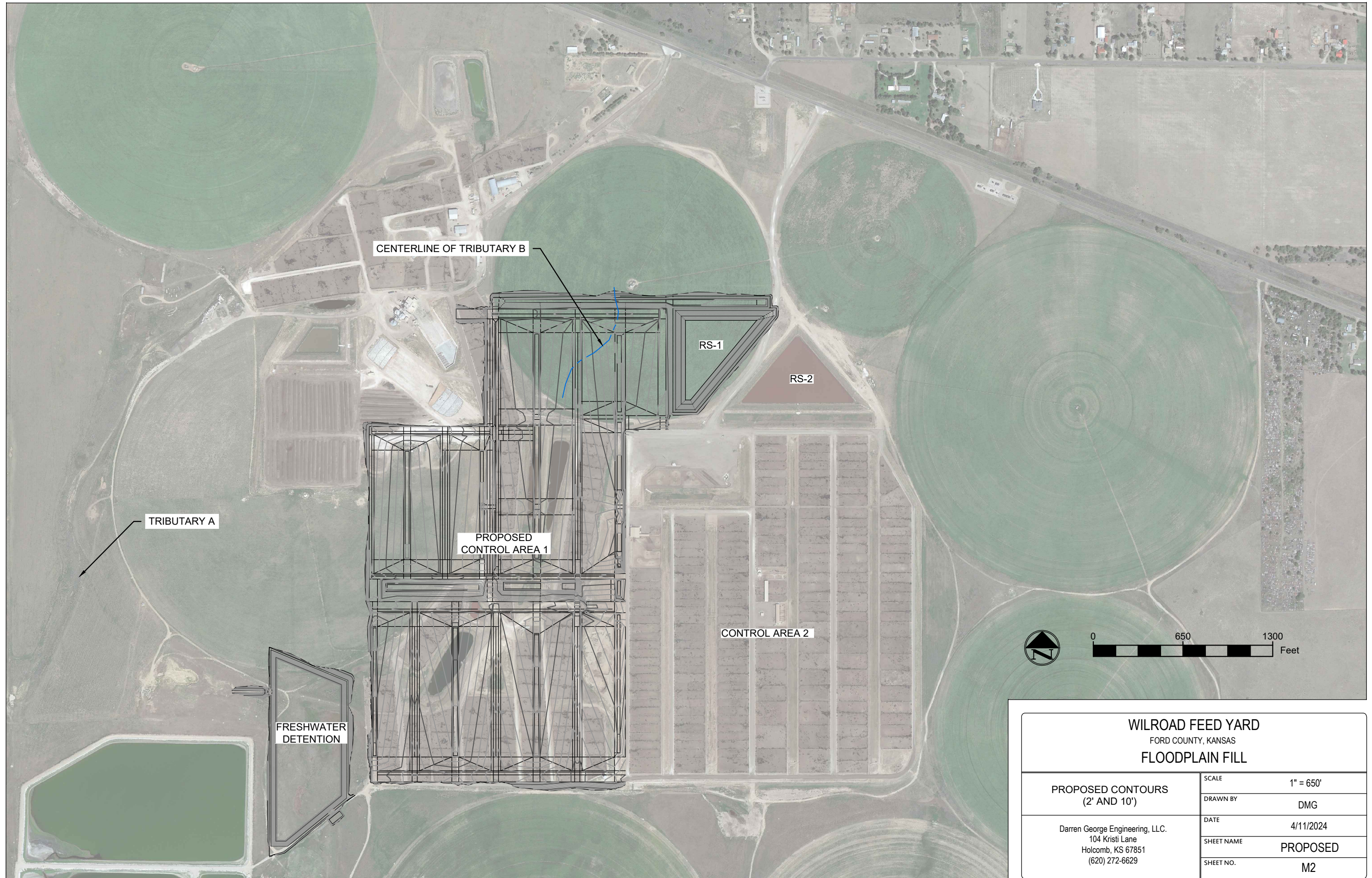
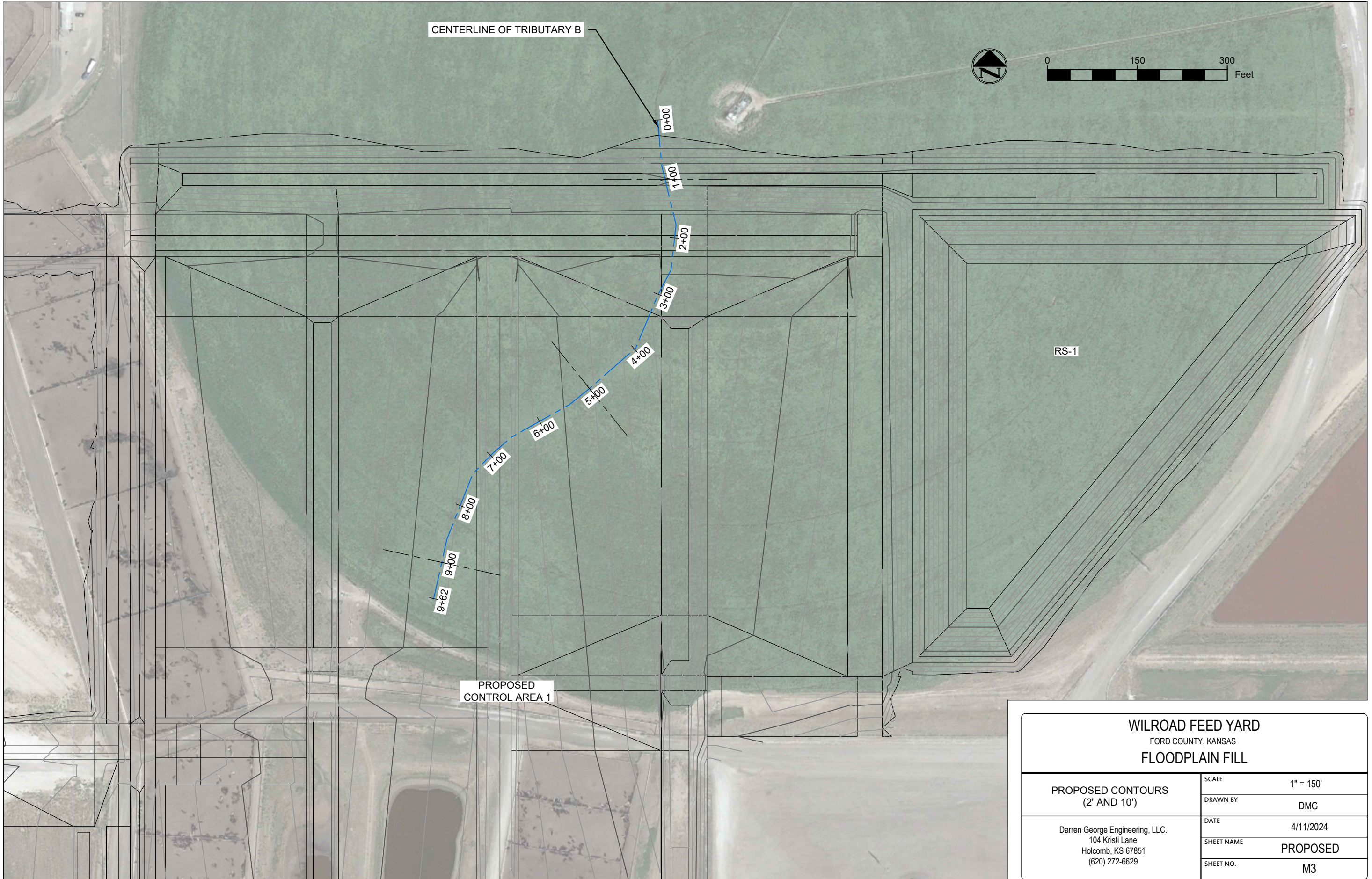


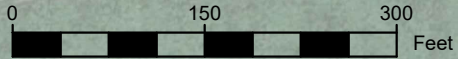
WILROAD FEED YARD FORD COUNTY, KANSAS FLOODPLAIN FILL		
EXISTING CONTOURS (2' AND 10')	SCALE	1" = 650'
	DRAWN BY	DMG
Darren George Engineering, LLC. 104 Kristi Lane Holcomb, KS 67851 (620) 272-6629	DATE	4/11/2024
	SHEET NAME	EXISTING
	SHEET NO.	M1



WILROAD FEED YARD FORD COUNTY, KANSAS FLOODPLAIN FILL		
PROPOSED CONTOURS (2' AND 10')	SCALE	1" = 650'
Darren George Engineering, LLC. 104 Kristi Lane Holcomb, KS 67851 (620) 272-6629	DRAWN BY	DMG
	DATE	4/11/2024
	SHEET NAME	PROPOSED
	SHEET NO.	M2



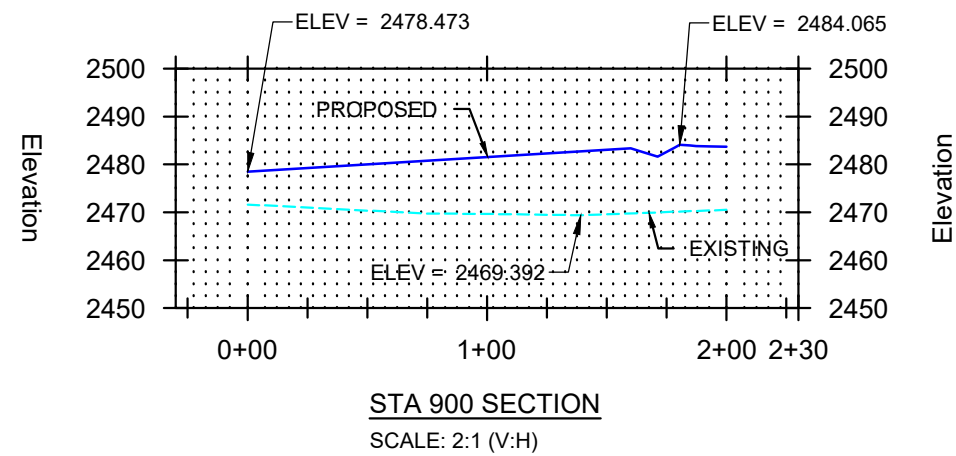
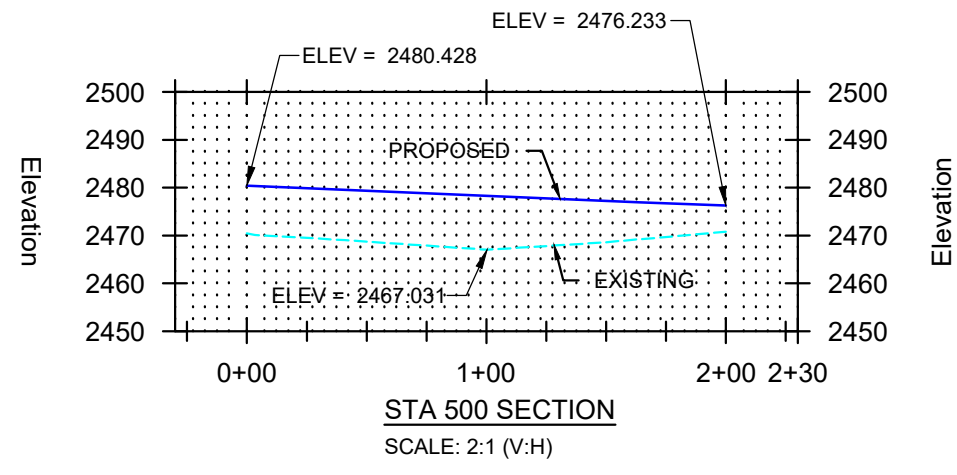
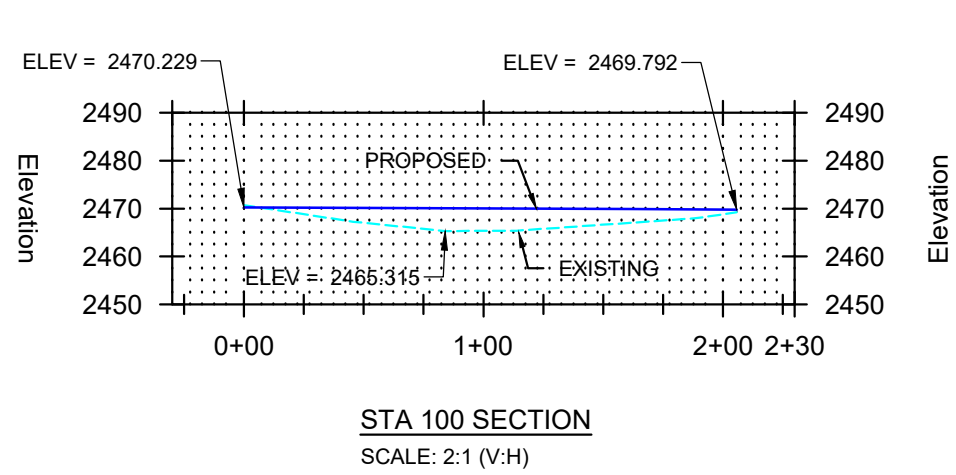
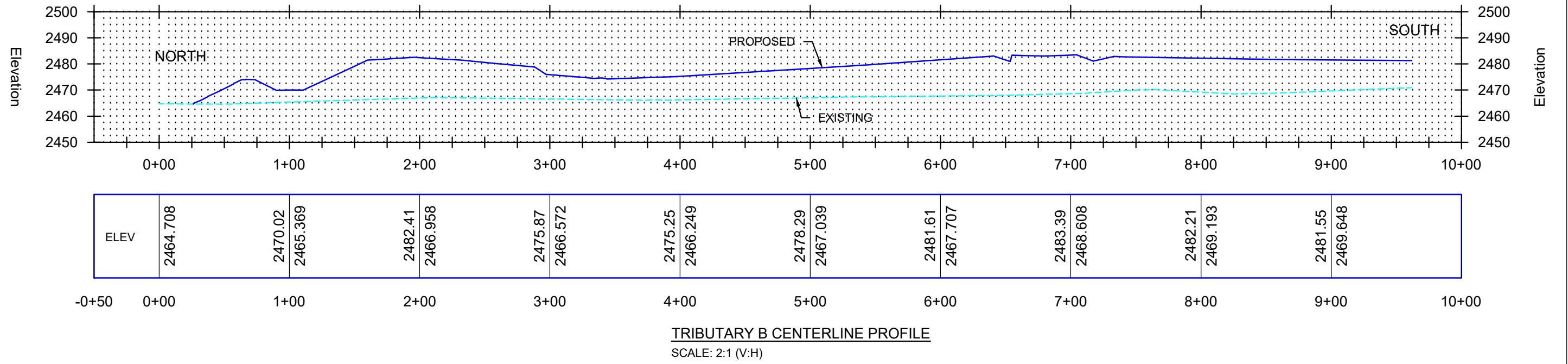
CENTERLINE OF TRIBUTARY B



RS-1

PROPOSED CONTROL AREA 1

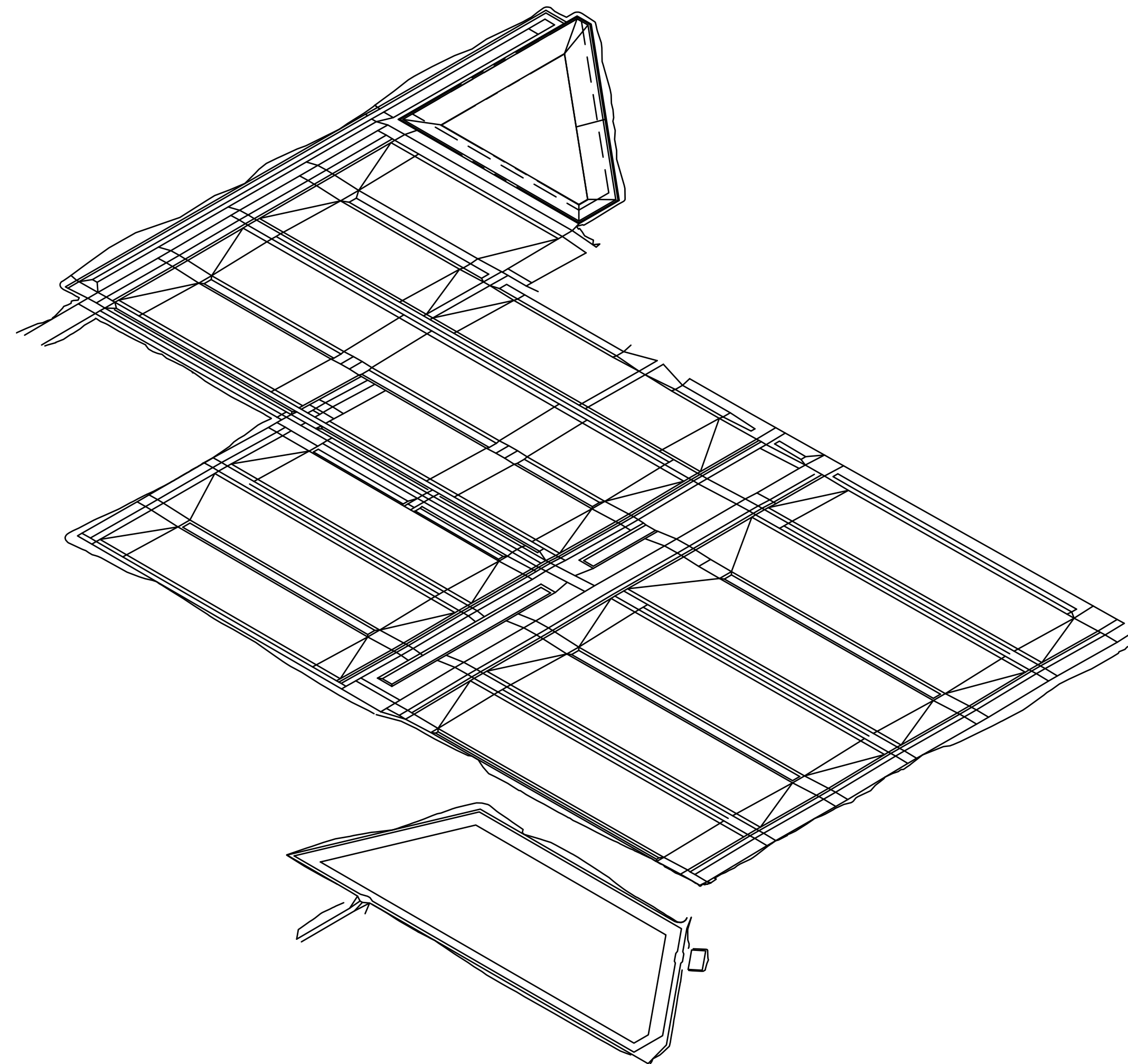
WILROAD FEED YARD FORD COUNTY, KANSAS FLOODPLAIN FILL		
PROPOSED CONTOURS (2' AND 10')	SCALE	1" = 150'
	DRAWN BY	DMG
Darren George Engineering, LLC. 104 Kristi Lane Holcomb, KS 67851 (620) 272-6629	DATE	4/11/2024
	SHEET NAME	PROPOSED
	SHEET NO.	M3



<b>WILROAD FEED YARD</b>	
FORD COUNTY, KANSAS	
<b>FLOODPLAIN FILL</b>	
SCALE	SHOWN
DRAWN BY	DMG
DATE	4/11/2024
SHEET NAME	PROFILE/SECTIONS
SHEET NO.	M4

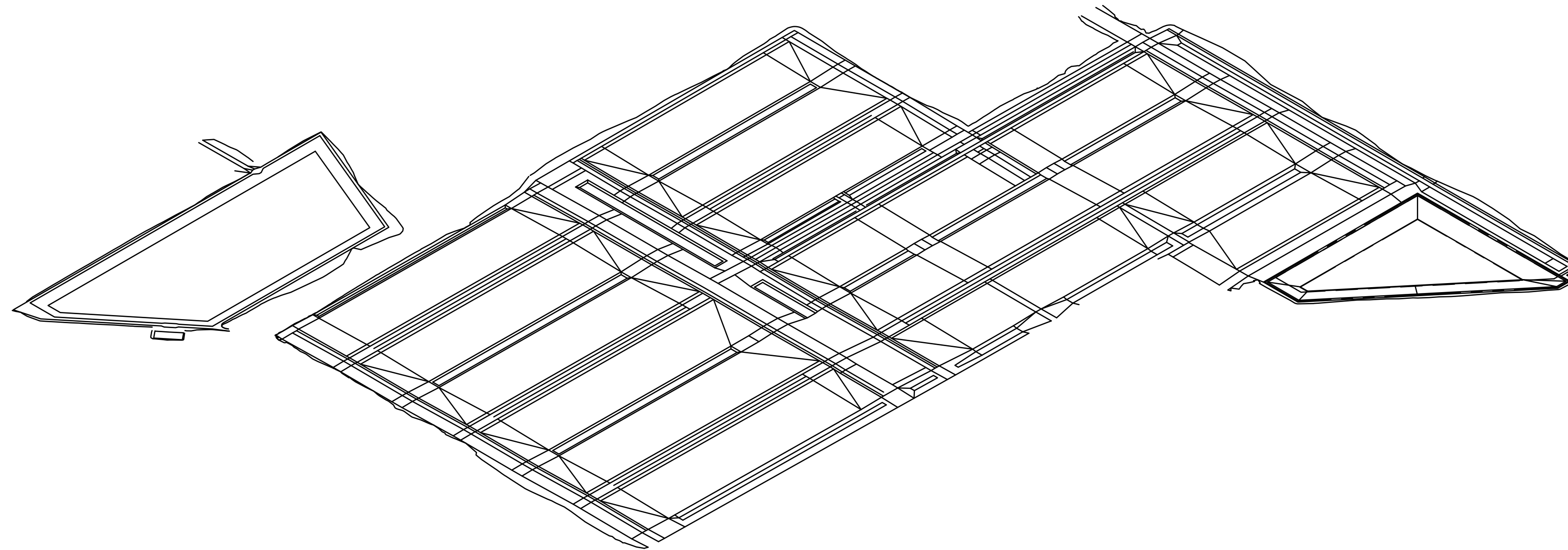
Darren George Engineering, LLC.  
 104 Kristi Lane  
 Holcomb, KS 67851  
 (620) 272-6629

# Wilroads Dodge City, Ks 2024 Expansion



1 Southwest ISO View  
Scale: NTS

Sheet List Table	
Sheet Number	Sheet Title
1	Cover (1)
2	Table of Contents
3	Image Via Google Earth
4	Site Layout
5	Power Line Profile
6	Grading Layout
7	Grading Layout South
8	Grading Contours North
9	Grading Contours South
10	Grading Cut to Fill North
11	Grading Cut to Fill South
12	Grading Lagoon Details
13	Grading Freshwater Lagoon
14	Culvert Layout
15	Plan and Profile Culvert 1
16	Plan and Profile Culvert 2
17	Plan and Profile Culvert 3
18	Plan and Profile Culvert 4
19	Plan and Profile Culvert 5
20	Plan and Profile Culvert 6
21	Plan and Profile Culvert 7
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24	Plan and Profile Culvert 10
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26	Plan and Profile Culvert 12
27	Plan and Profile Culvert 13
28	Plan and Profile Culvert 14
29	Plan and Profile Culvert 15
30	Plan and Profile Culvert 16
31	Pen Layout North
32	Pen Layout South
33	Plumbing Layout



1 Southeast ISO View  
Scale: NTS

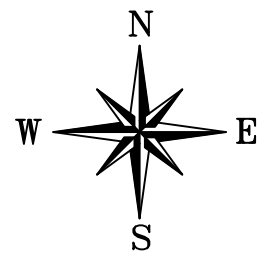
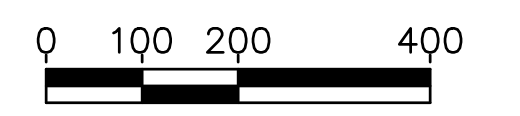
60' added to Northwest Pens on 02122024



WATER LINE BY OTHERS

GAS LINE

Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 200'



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PROJECT:

Wilroads Feedyard  
Dodge City, Ks



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



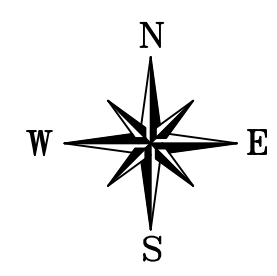
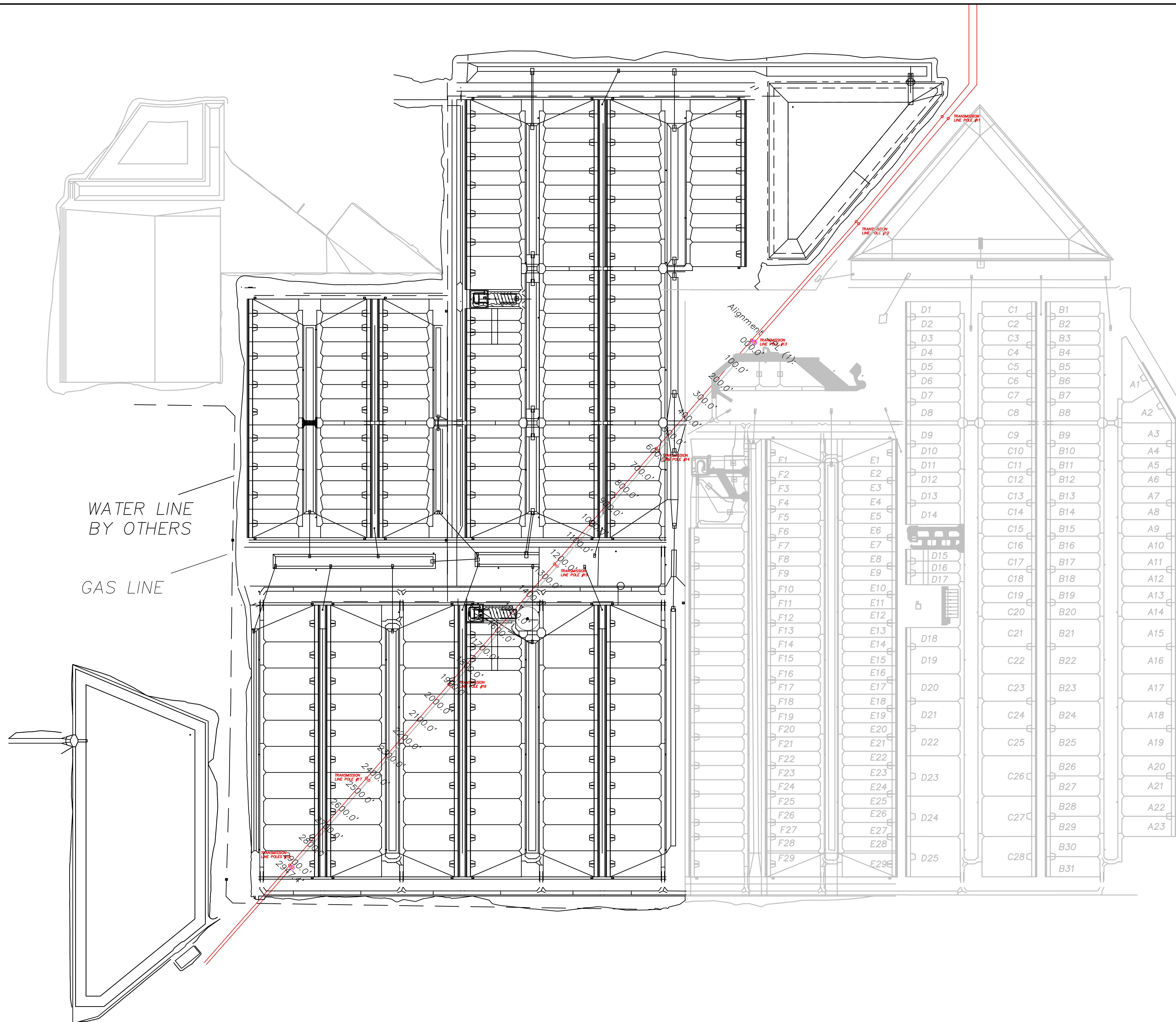
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Image Via  
Google Earth

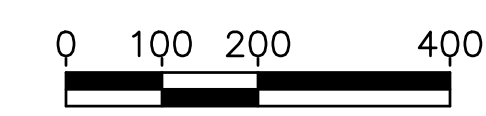
DRAWN BY: R. Ruhnke DATE: 02/14/2024

CHECKED BY: A. Jantz DATE: 02/14/2024

Sheet 3  
DWG 9999



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 200'



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PROJECT: *Wilroads Feedyard*  
*Dodge City, Ks*



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



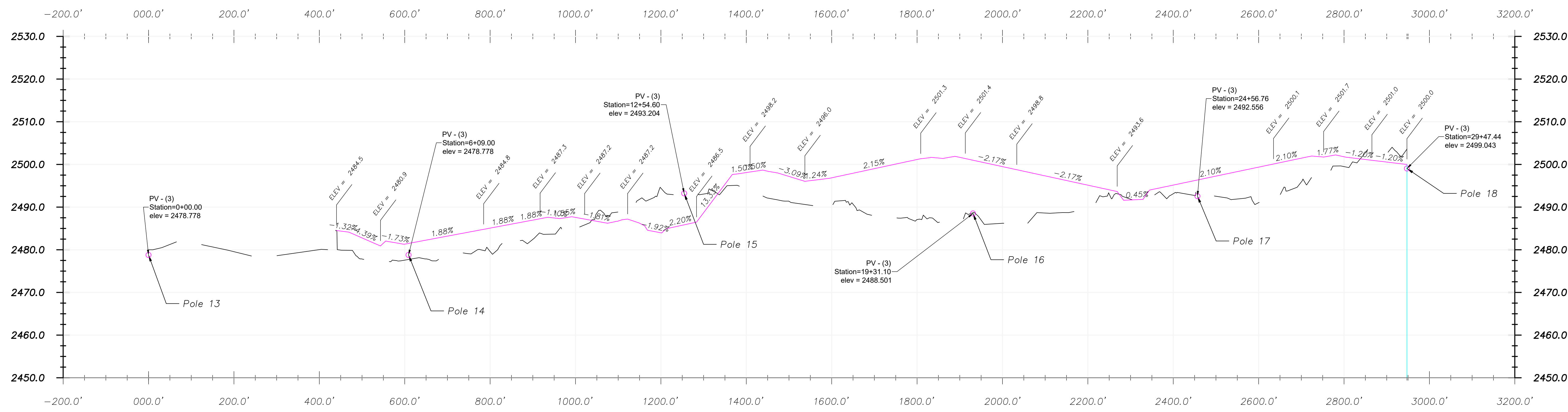
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DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

DWG 9999  
Sheet 4



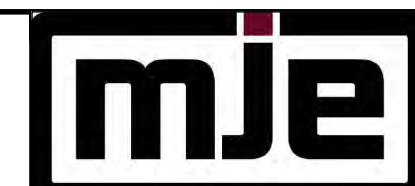
# Profile View of Alignment -PL (1)



Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

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PROJECT: *Wilroads Feedyard  
Dodge City, Ks*



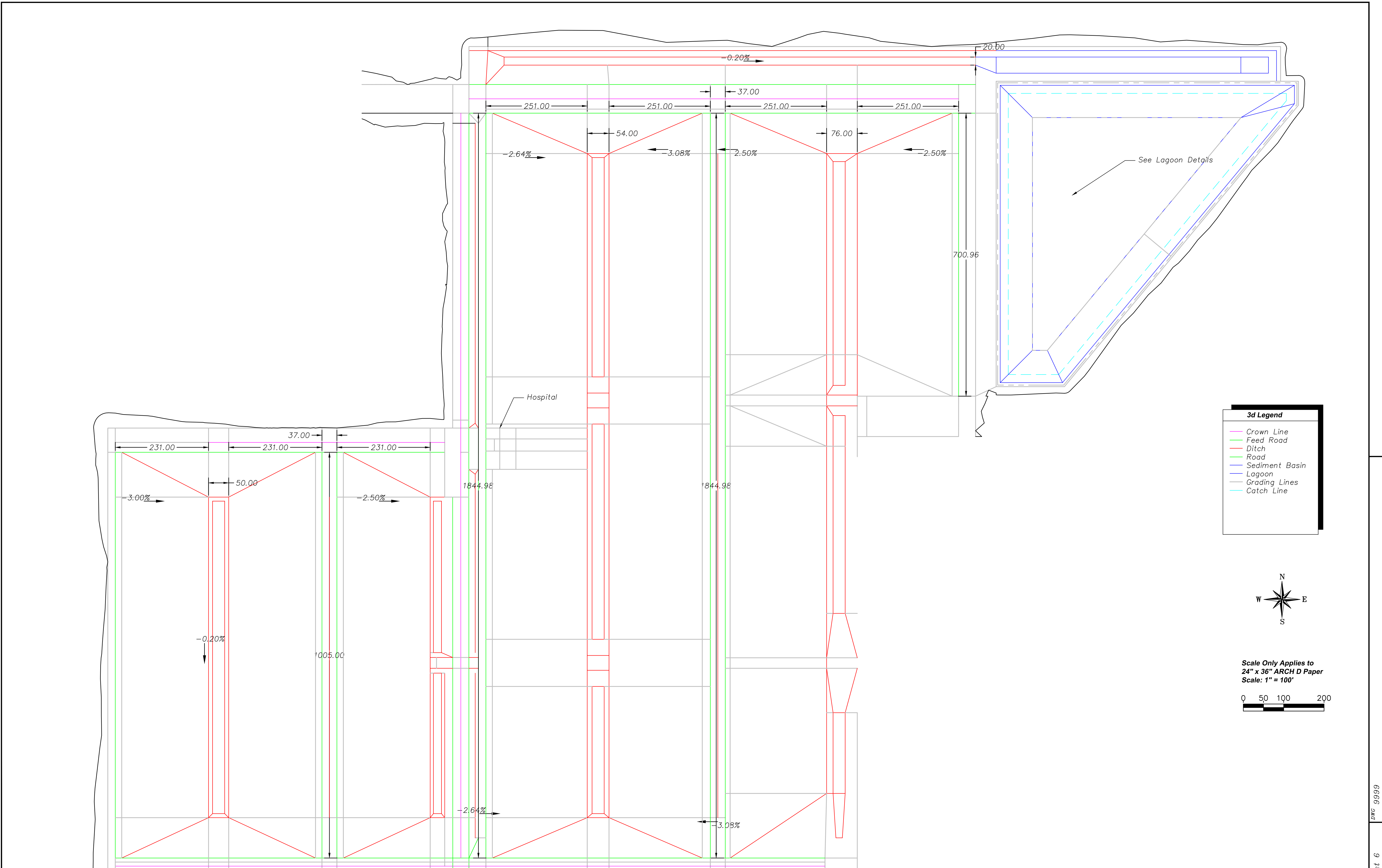
MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



SHEET DESCRIPTION: *Power Line  
Profile*

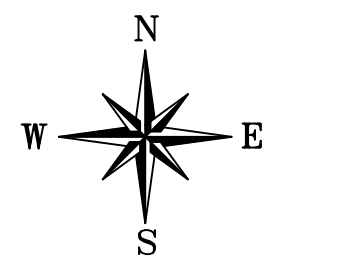
DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

DWG 9999  
Sheet 5



**3d Legend**

- Crown Line
- Feed Road
- Ditch
- Road
- Sediment Basin
- Lagoon
- Grading Lines
- - - Catch Line



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'

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PROJECT:  
*Wilroads Feedyard  
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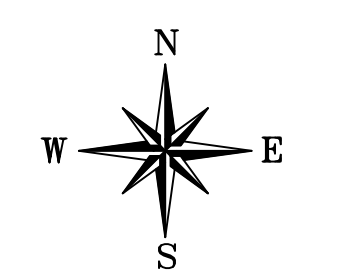
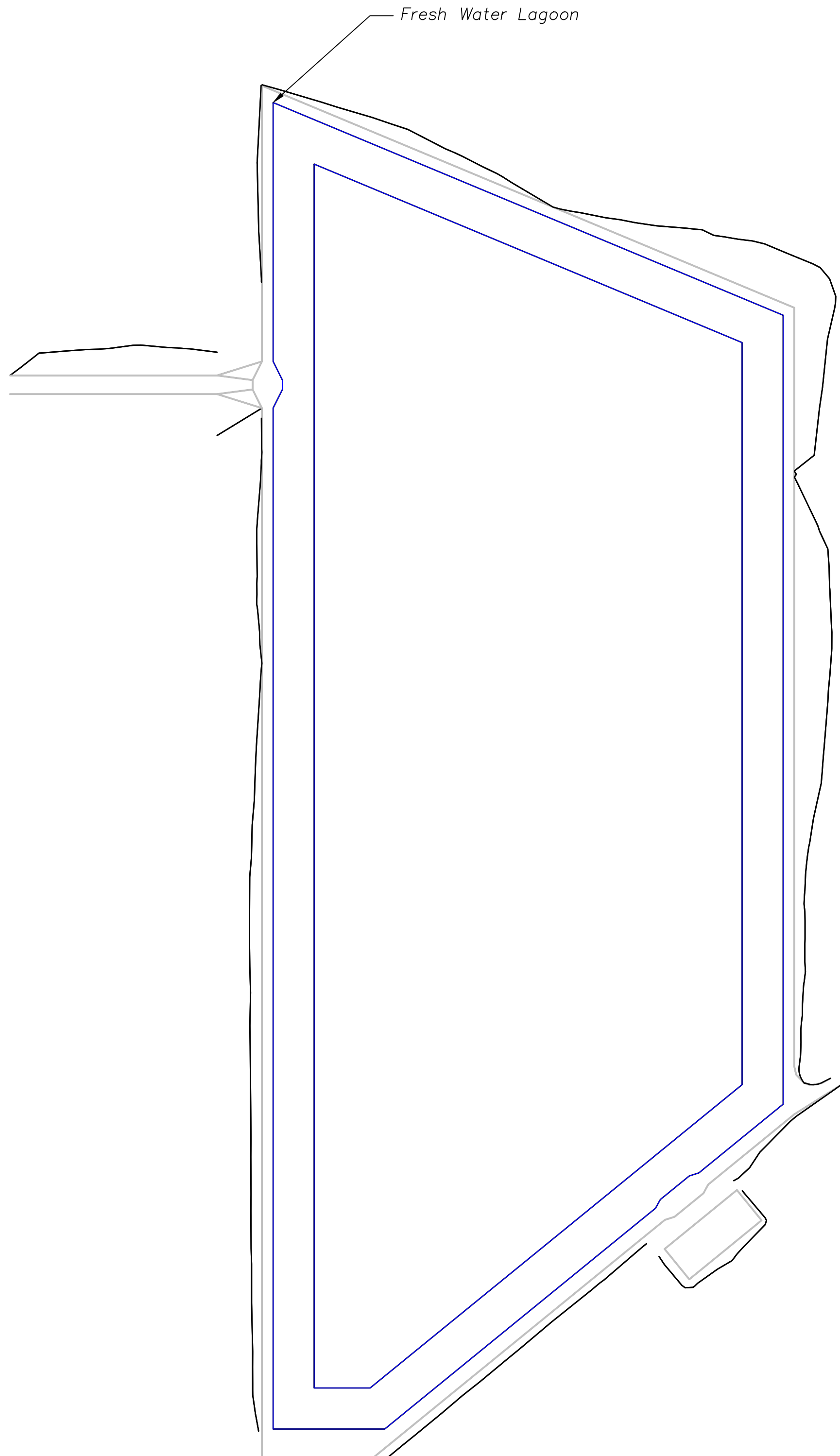
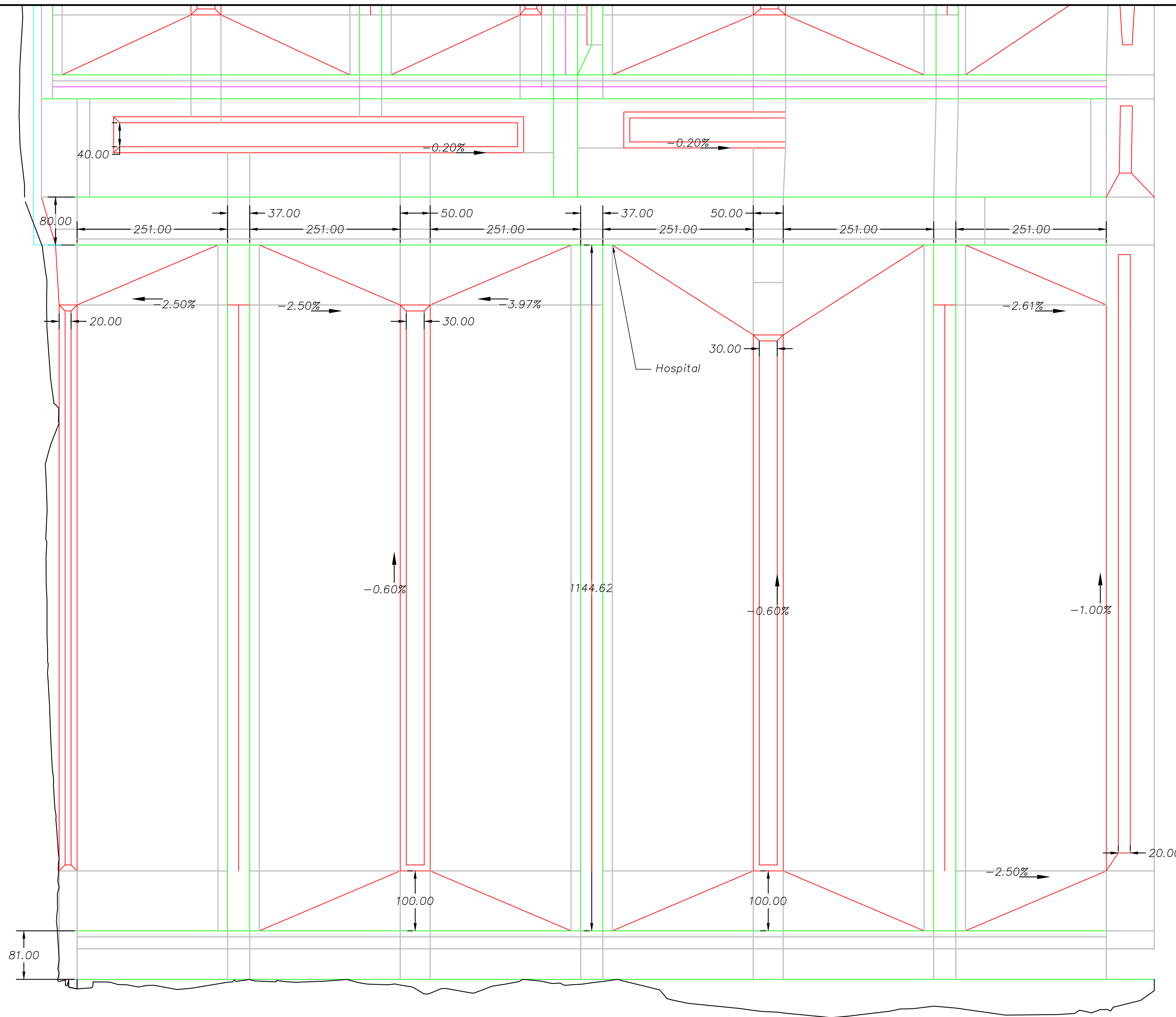
MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



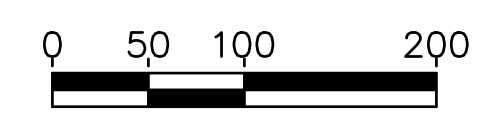
SHEET DESCRIPTION:  
*Grading Layout  
North*

DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

Sheet 6  
DWG 9999



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'



3d Legend	
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<span style="color: green;">—</span>	Feed Road
<span style="color: red;">—</span>	Ditch
<span style="color: blue;">—</span>	Road
<span style="color: purple;">—</span>	Sediment Basin
<span style="color: grey;">—</span>	Lagoon
<span style="color: cyan;">—</span>	Grading Lines
<span style="color: cyan;">—</span>	Catch Line

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Dodge City, Ks*



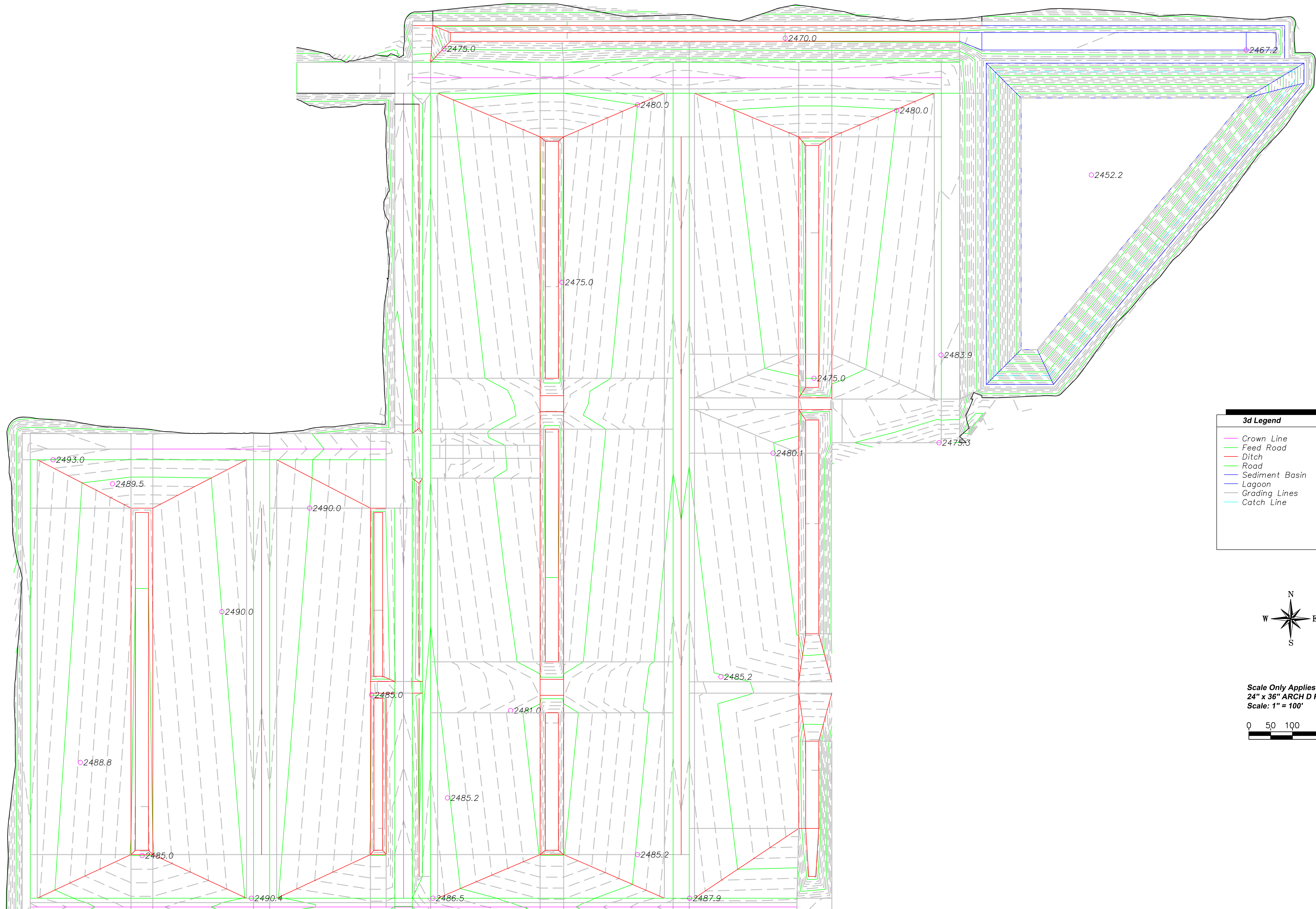
*MJE, LLC*  
26503 11 Road  
Montezuma, KS 67867



SHEET DESCRIPTION: *Grading Layout  
South*

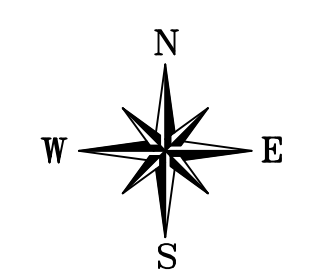
DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

Sheet 7  
DWG 9999



**3d Legend**

- Crown Line
- Feed Road
- Ditch
- Road
- Sediment Basin
- Lagoon
- Grading Lines
- Catch Line



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Scale: 1" = 100'

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Dodge City, Ks*



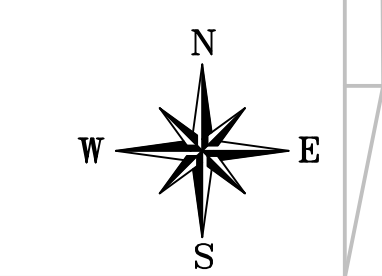
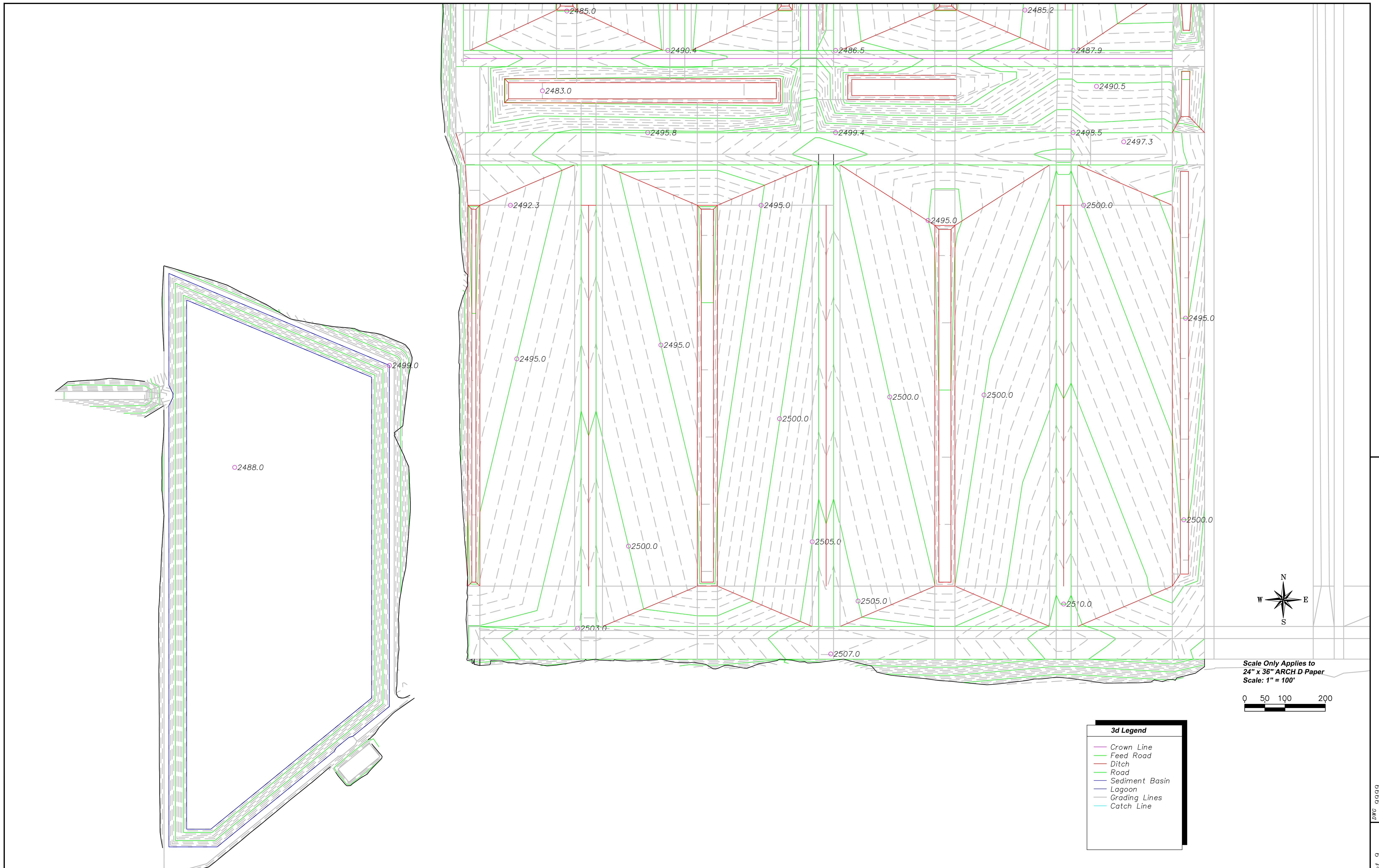
MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



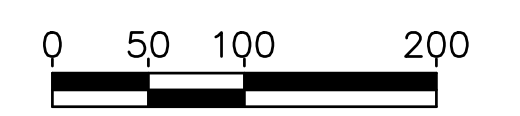
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*Grading Contours  
North*

DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

Sheet 8  
DWG 9999



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'



3d Legend	
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<span style="color: red;">—</span>	Ditch
<span style="color: blue;">—</span>	Road
<span style="color: purple;">—</span>	Sediment Basin
<span style="color: cyan;">—</span>	Lagoon
<span style="color: grey;">—</span>	Grading Lines
<span style="color: lightblue;">—</span>	Catch Line

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Wilroads Feedyard  
Dodge City, Ks



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



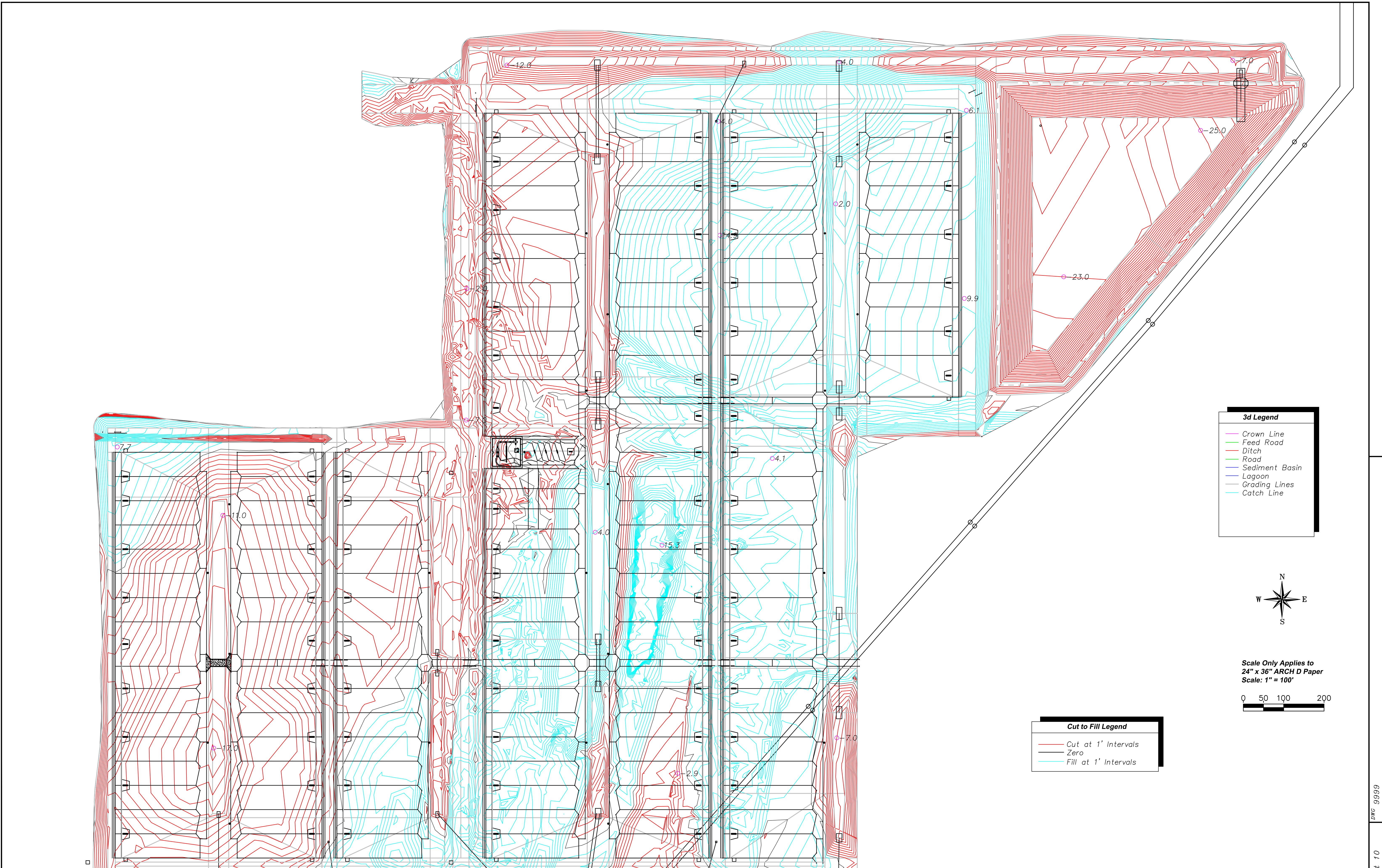
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Grading Layout  
South

DRAWN BY: R. Ruhnke DATE: 02/14/2024

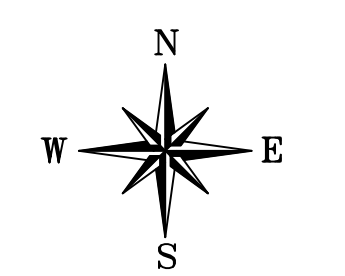
CHECKED BY: A. Jantz DATE: 02/14/2024

Sheet 9



**3d Legend**

- Crown Line
- Feed Road
- Ditch
- Road
- Sediment Basin
- Lagoon
- Grading Lines
- Catch Line



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'

**Cut to Fill Legend**

- Cut at 1' Intervals
- Zero
- Fill at 1' Intervals

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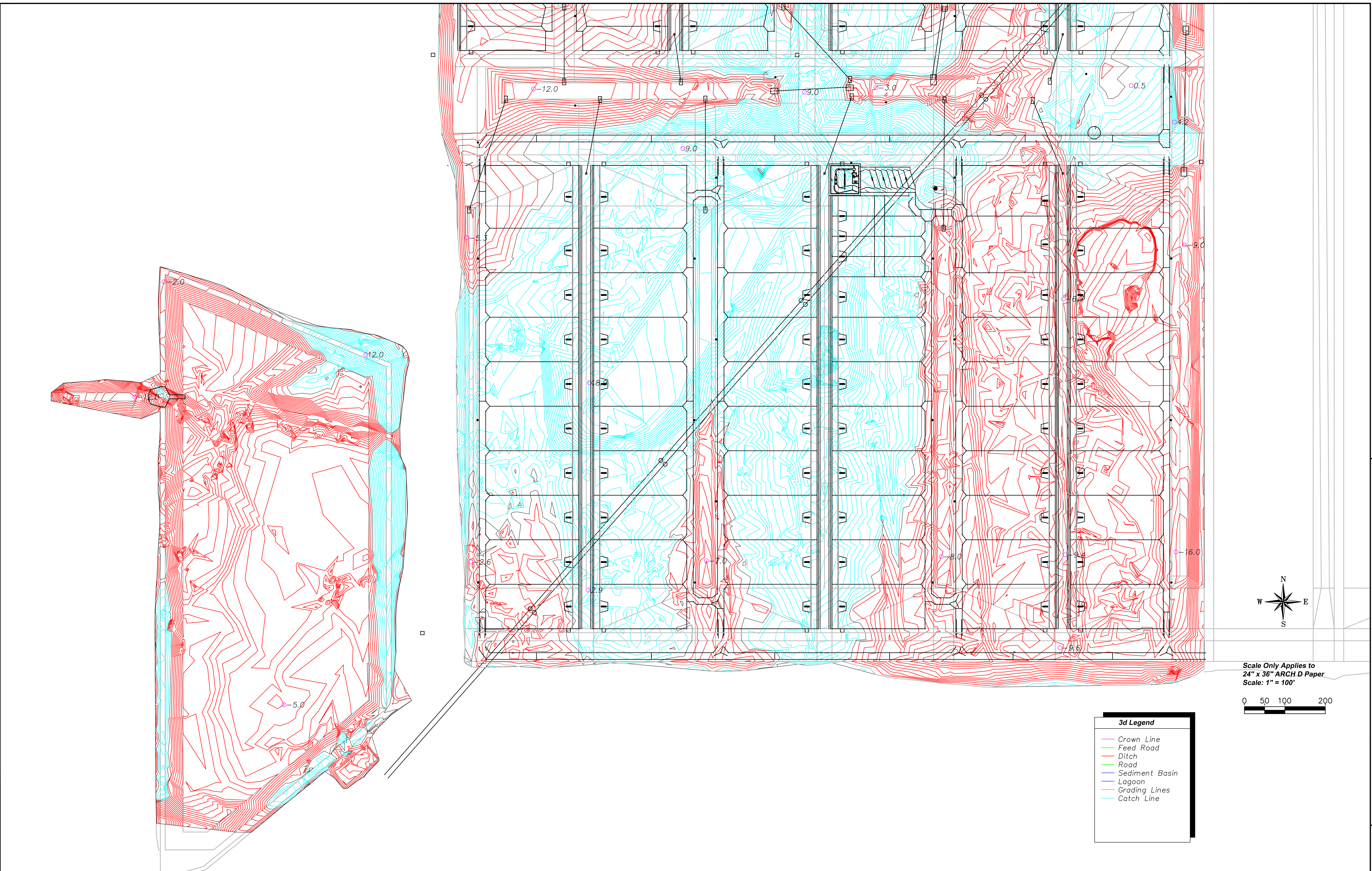
MJE, LLC  
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Montezuma, KS 67867



SHEET DESCRIPTION:  
*Grading Cut to Fill  
North*

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Sheet 10



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 26503 11 Road  
 Montezuma, KS 67867

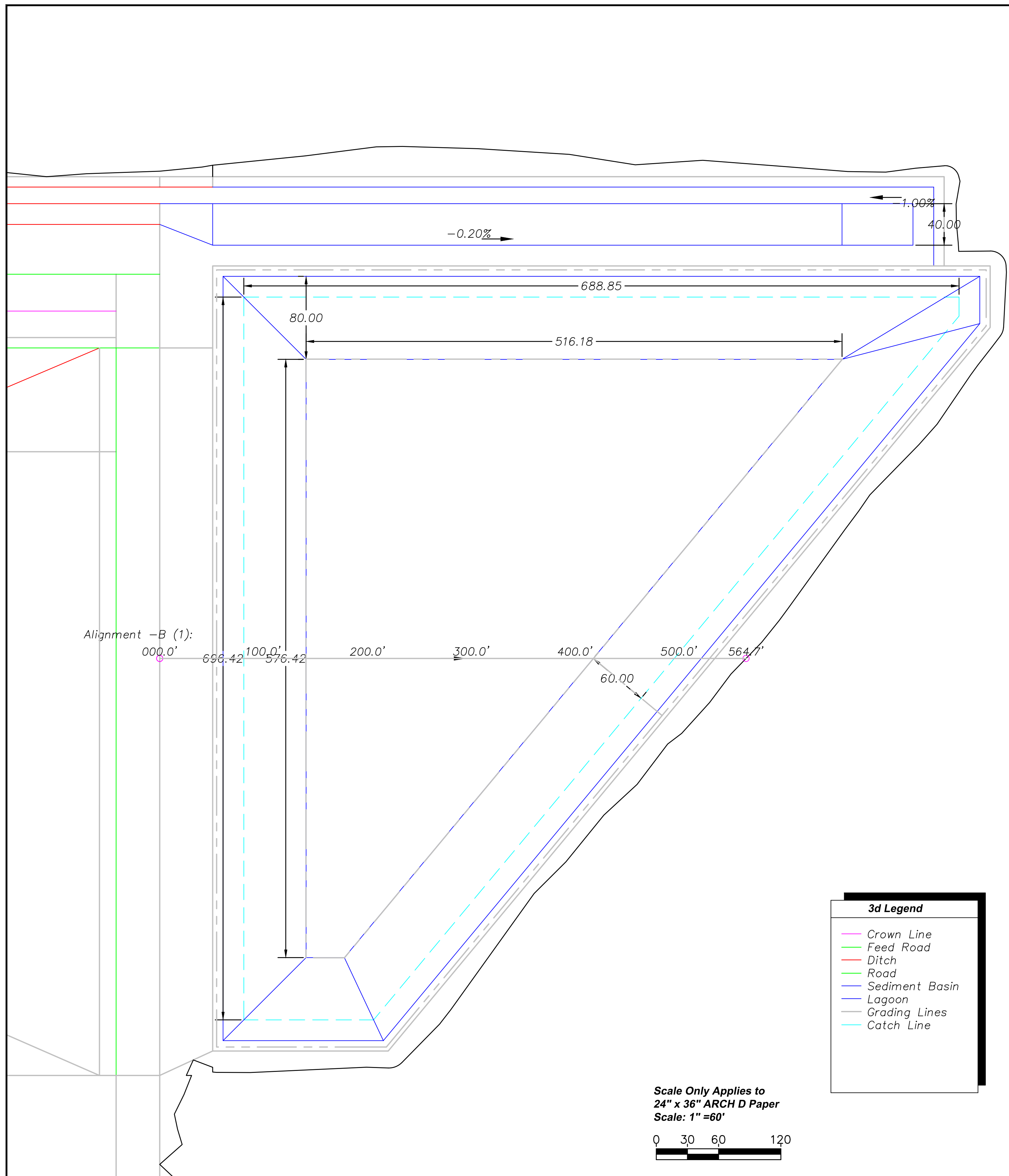


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 South*

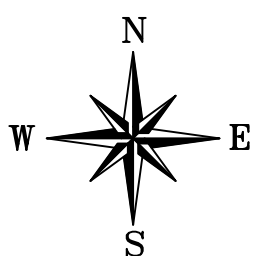
DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

DWG 9999  
 Sheet 11



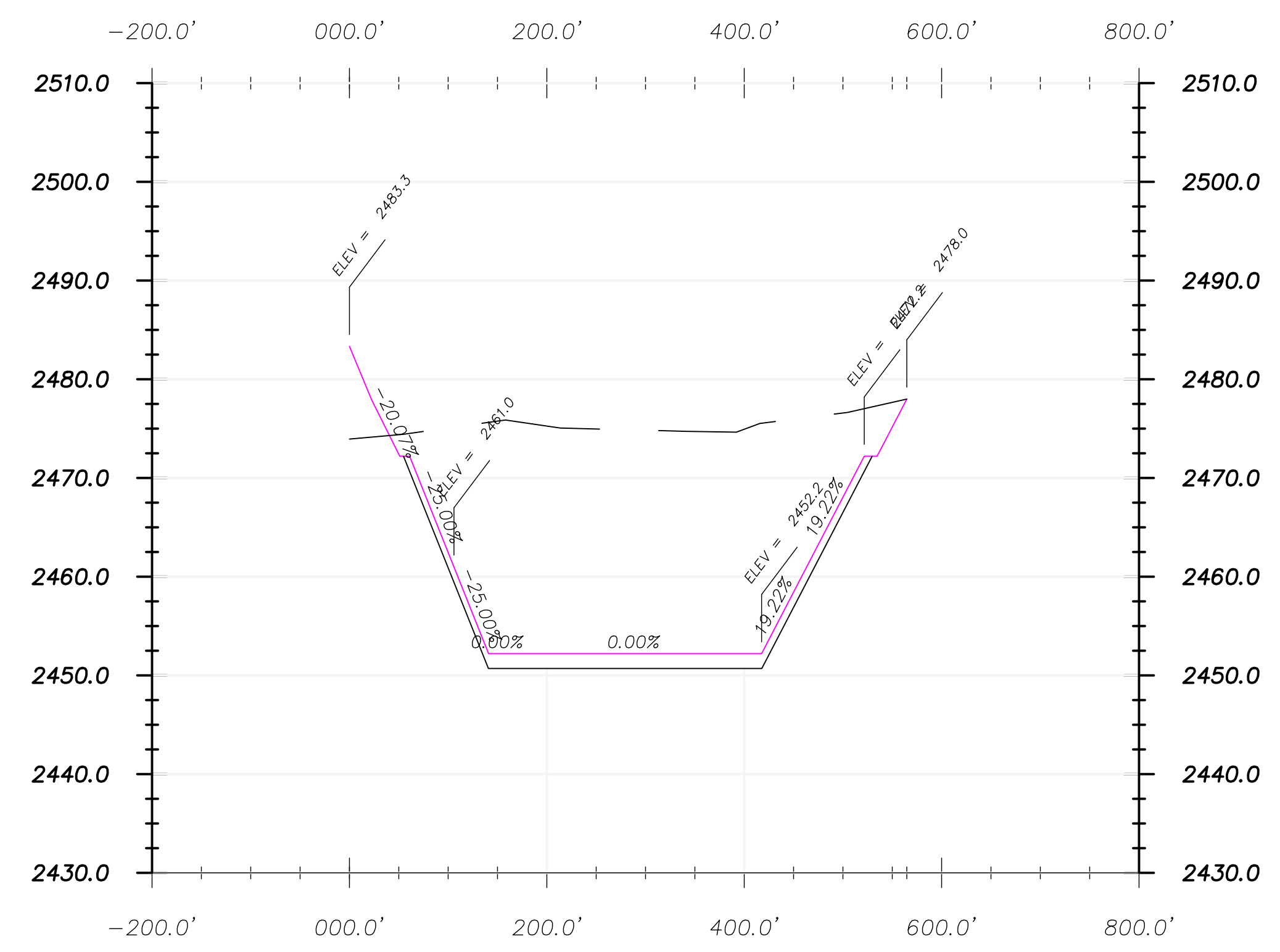
- 3d Legend**
- Crown Line
  - Feed Road
  - Ditch
  - Road
  - Sediment Basin
  - Lagoon
  - Grading Lines
  - Catch Line

Scale Only Applies to  
 24" x 36" ARCH D Paper  
 Scale: 1" = 60'



**1** Lagoon Grading Layout  
 Scale: 1" = 60'

Profile View of Alignment -B (1)



**2** Lagoon Grading Profile  
 Scale: NTS

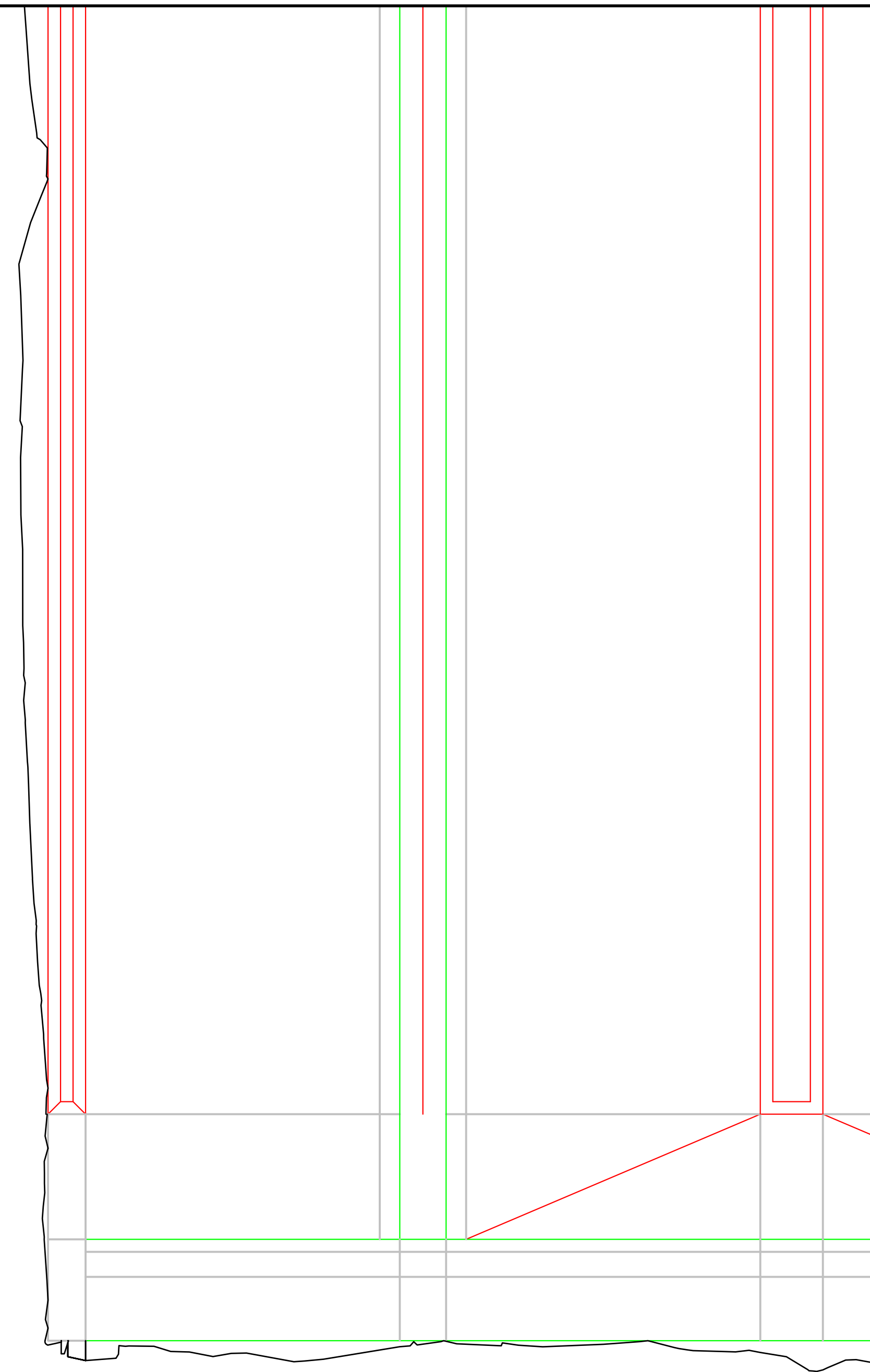
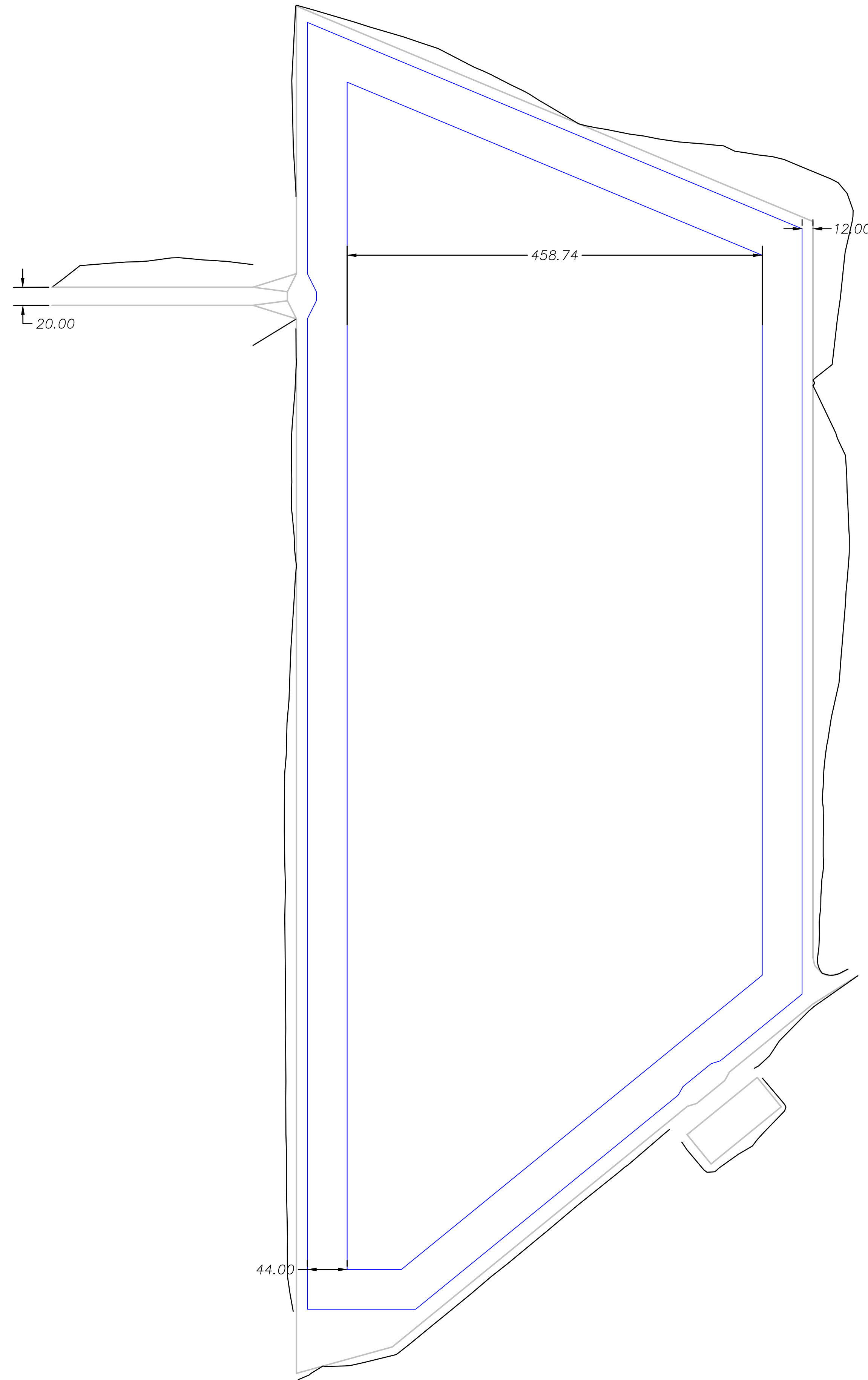
- Cross Section Legend**
- Existing Ground
  - Design Grade
  - Clay Liner

**Lagoon Notes:**

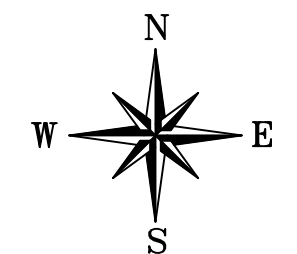
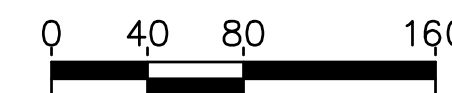
All Details at Freeboard

Drainage Area:	147.19 Acres
Surface Area:	6.62 Acres
Capacity:	77.13 Acre/Ft
Depth:	15'

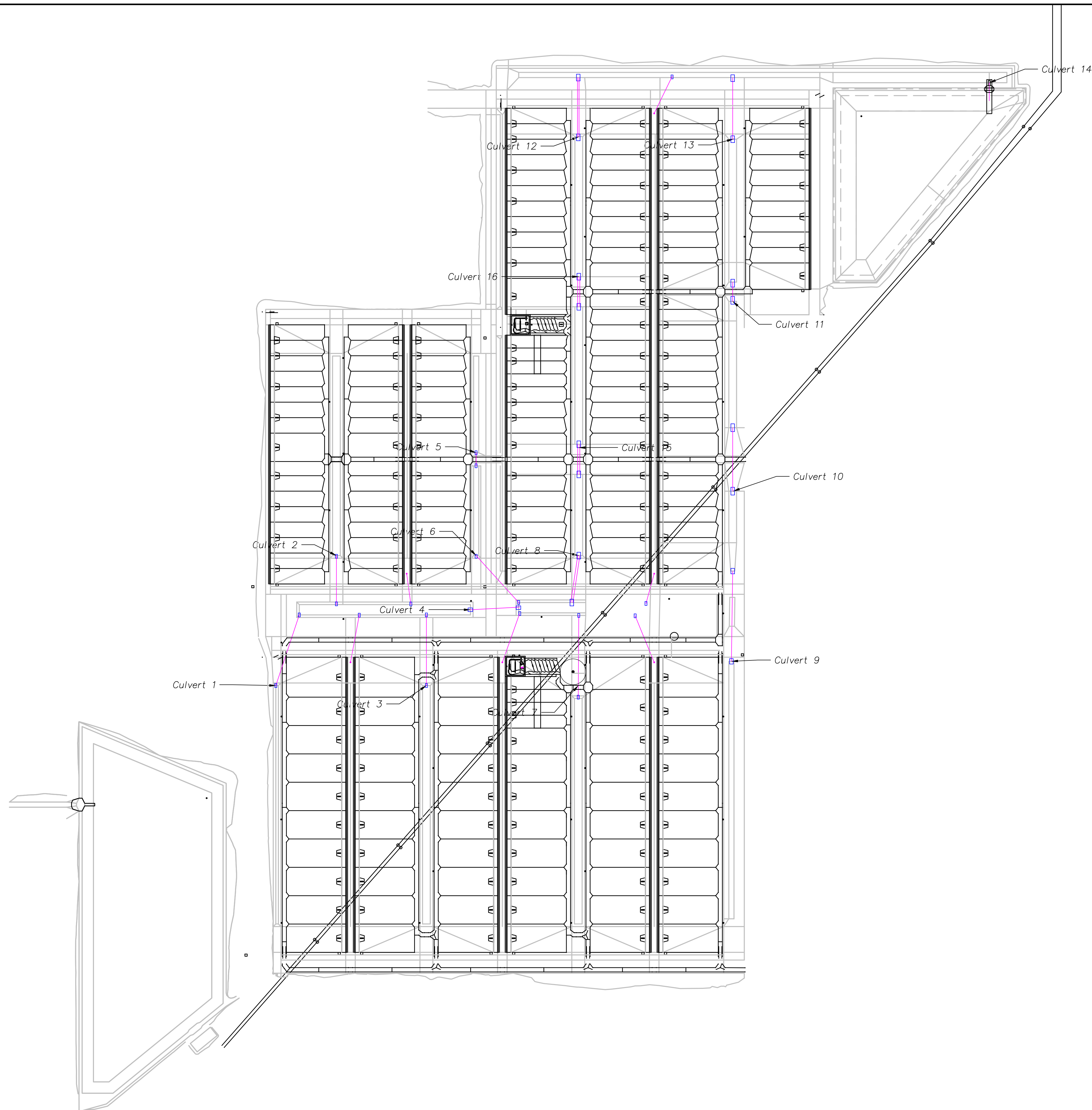




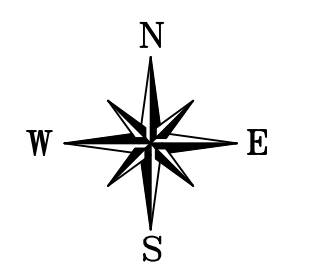
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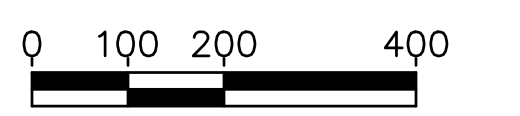
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<span style="color: red;">—</span>	Ditch
<span style="color: blue;">—</span>	Road
<span style="color: cyan;">—</span>	Sediment Basin
<span style="color: blue;">—</span>	Lagoon
<span style="color: grey;">—</span>	Grading Lines
<span style="color: cyan;">—</span>	Catch Line



Culvert Legend	
	Culvert
	Concrete



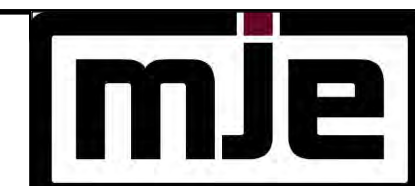
Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 200'



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Dodge City, Ks



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867

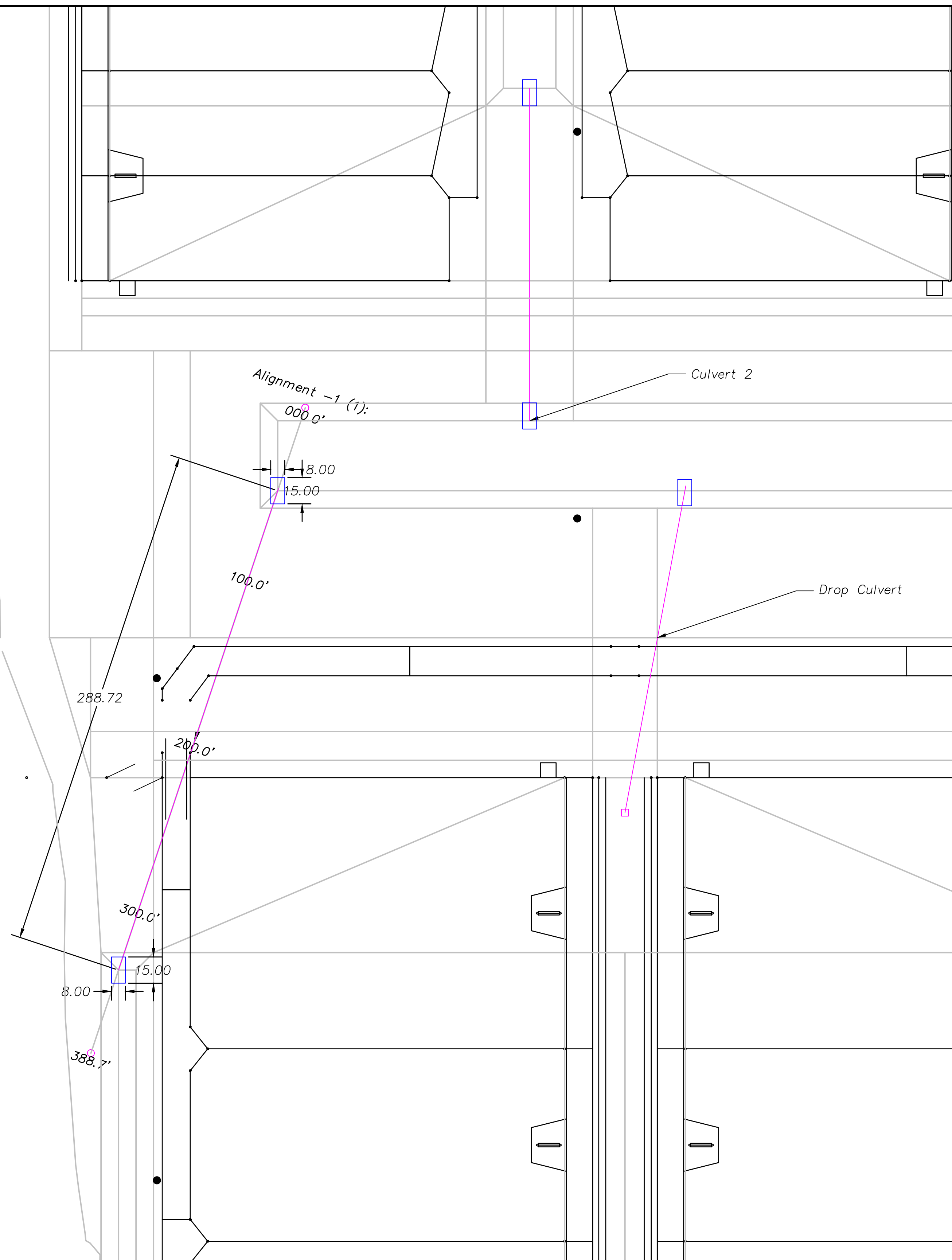


SHEET DESCRIPTION:

Culvert  
Layout

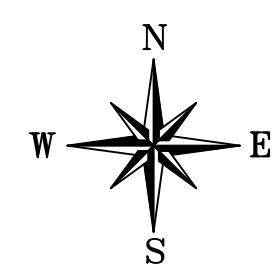
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DWG 9999  
Sheet 14

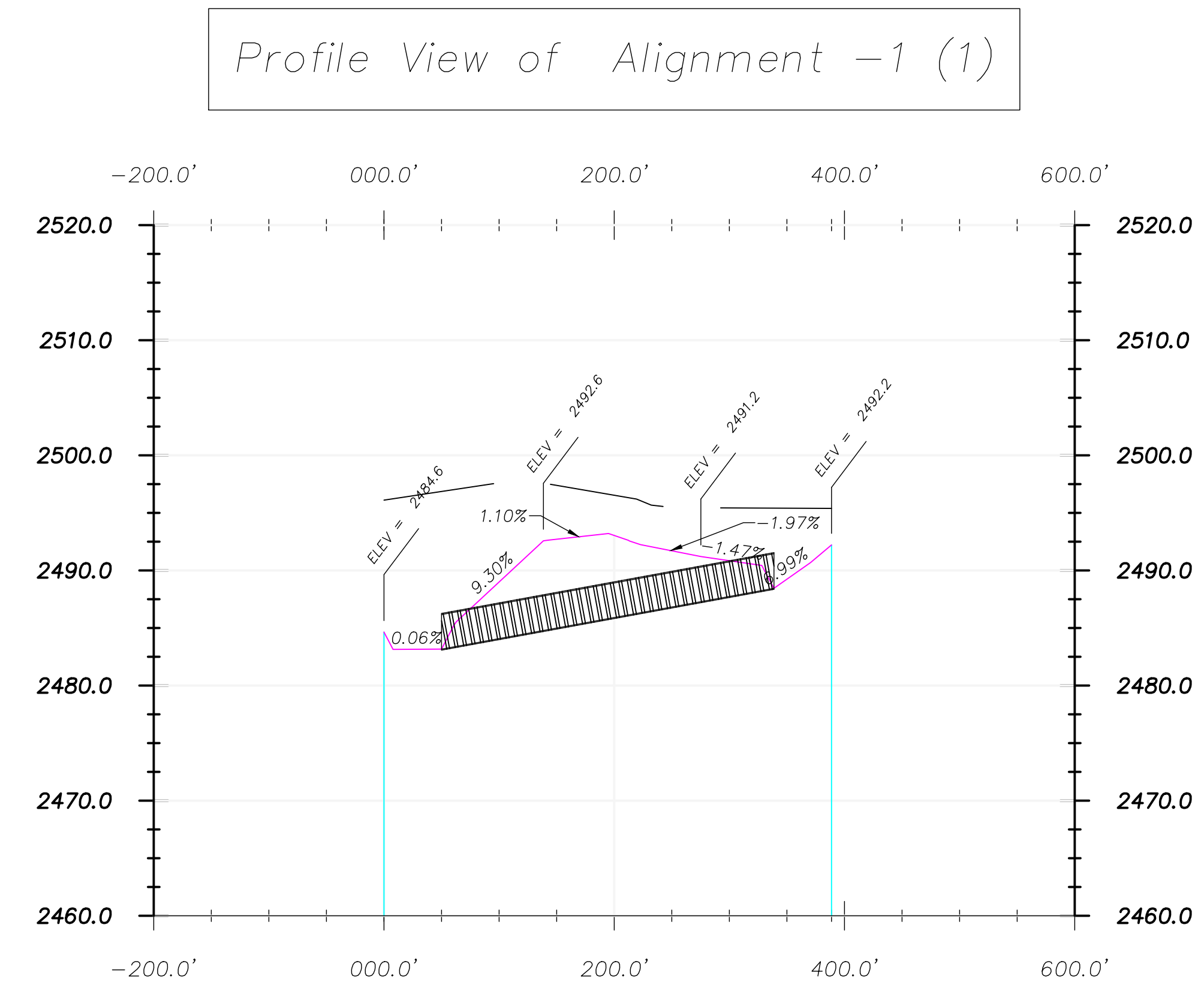


1 Plan View Culvert 1  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



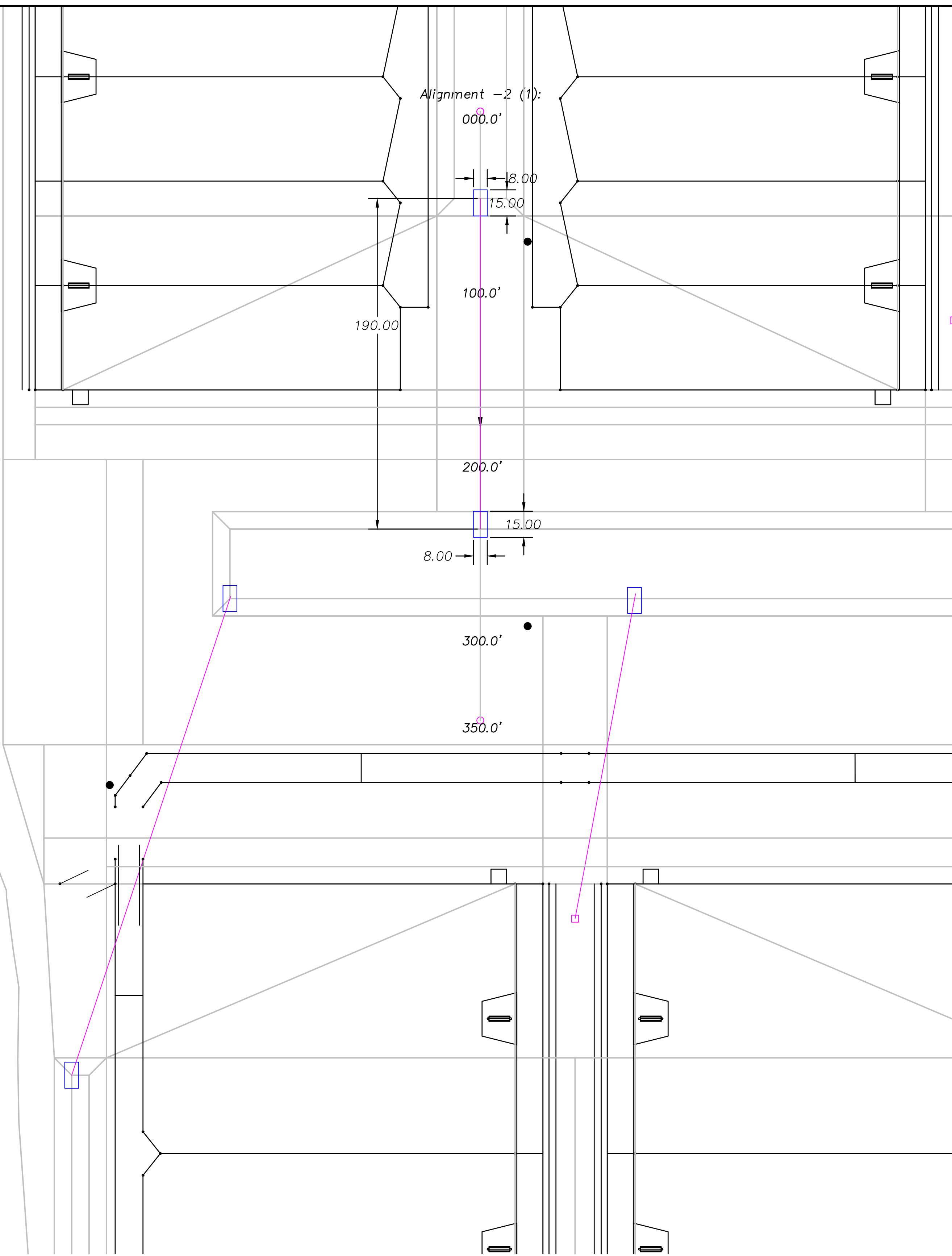
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Scale: 1" = 40'  
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2 Profile View Culvert 1  
Scale: 1" = NTS

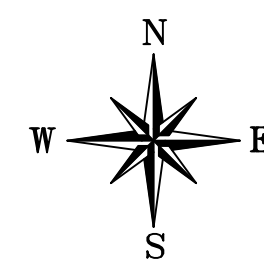
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 1 Notes:	
Size:	36" HDPE
Length:	288
Inlet:	2488.4
Outlet:	2483.1
Catchment Area:	450,381 sq ft
GPM Rain Event:	9,359
GPM Culvert:	52,935
All Rainfall Events Calculated at 2" per hour.	



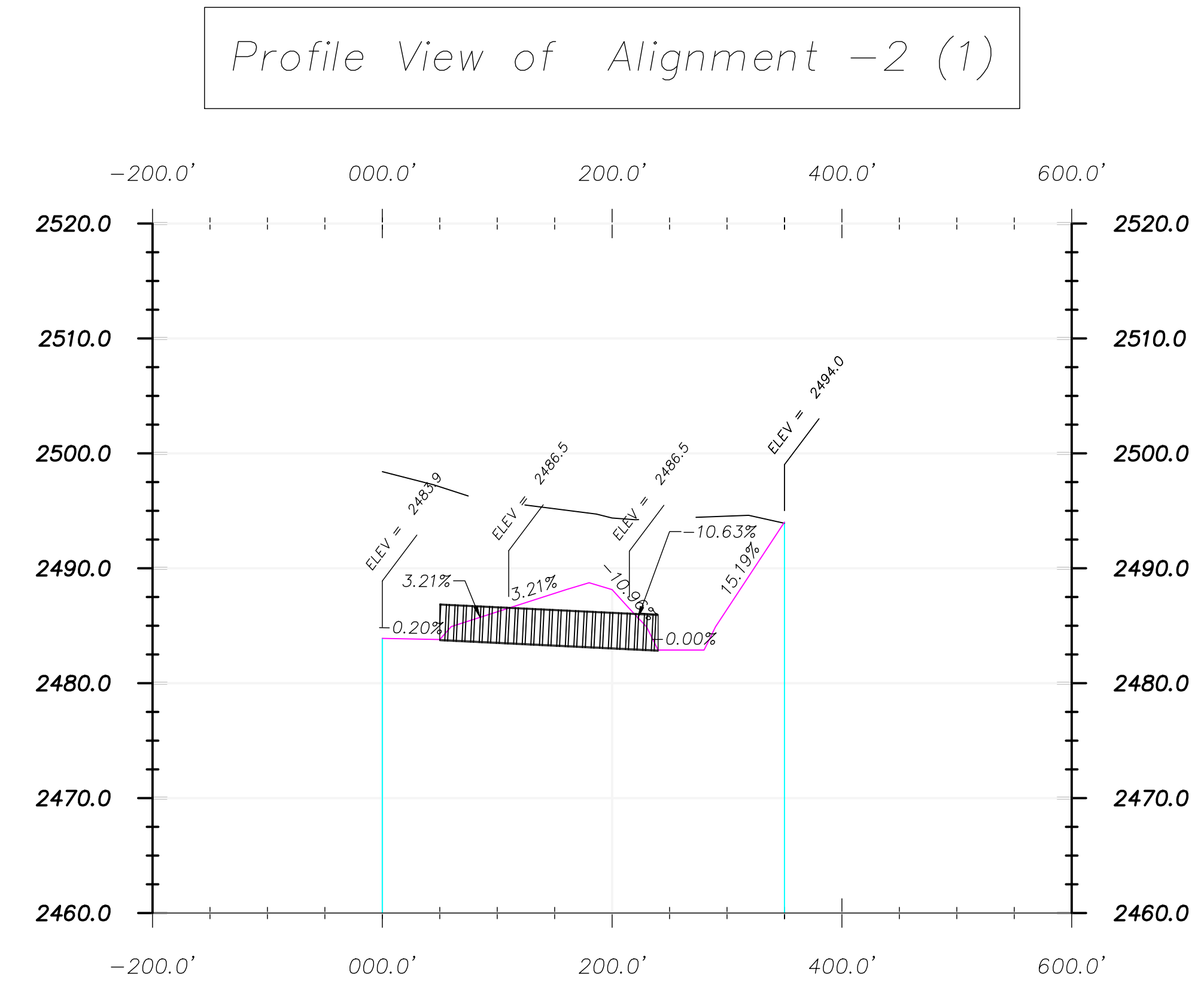
1 Plan View Culvert 2  
Scale: 1" = 40'

Culvert Legend	
<span style="color: pink;">—</span>	Culvert
<span style="color: blue;">—</span>	Concrete



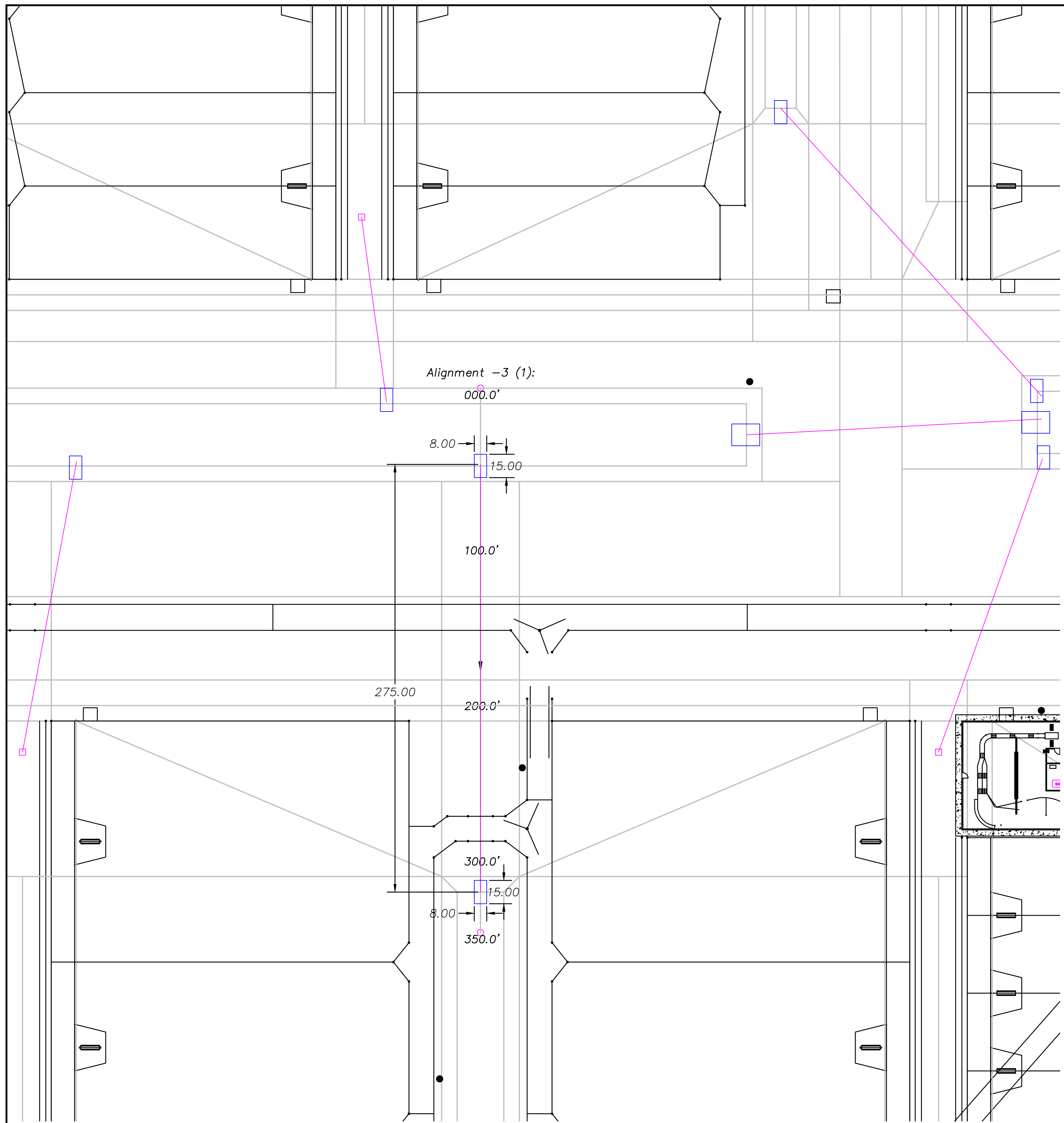
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2 Profile View Culvert 2  
Scale: 1" = NTS



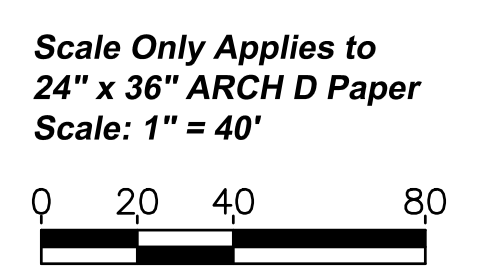
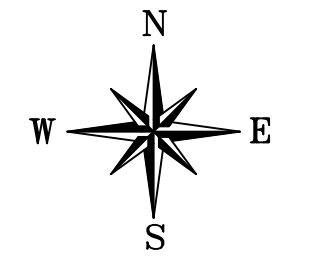
Cross Section Legend	
<span style="color: grey;">—</span>	Existing Ground
<span style="color: pink;">—</span>	Design Grade
<span style="color: red;">—</span>	Clay Liner

Culvert 2 Notes:	
Size:	36" HDPE
Length:	190
Inlet:	2483.8
Outlet:	2482.8
Catchment Area:	526,860 sq ft
GPM Rain Event:	10,948
GPM Culvert:	28,309
All Rainfall Events Calculated at 2" per hour.	



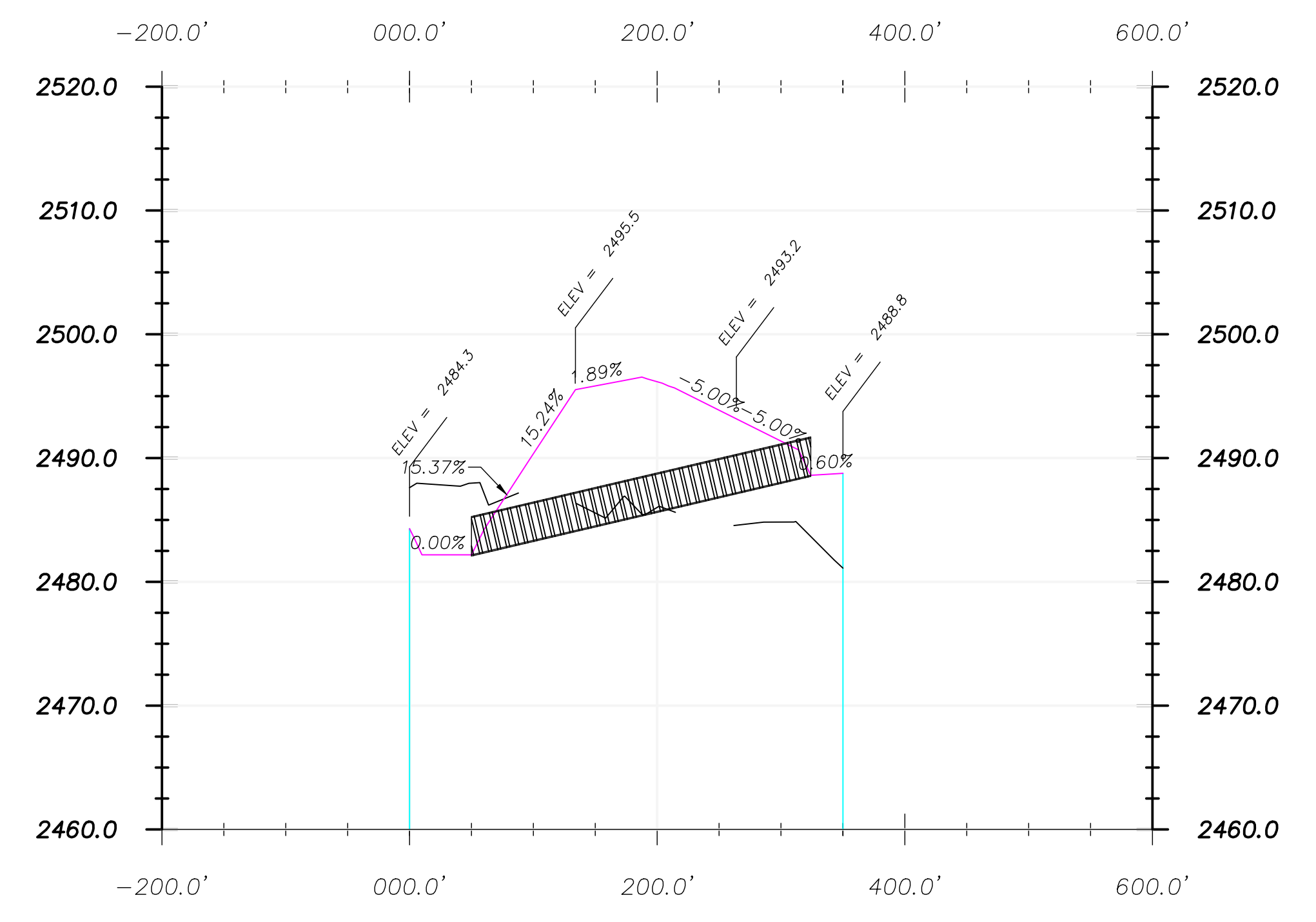
1 Plan View Culvert 3  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



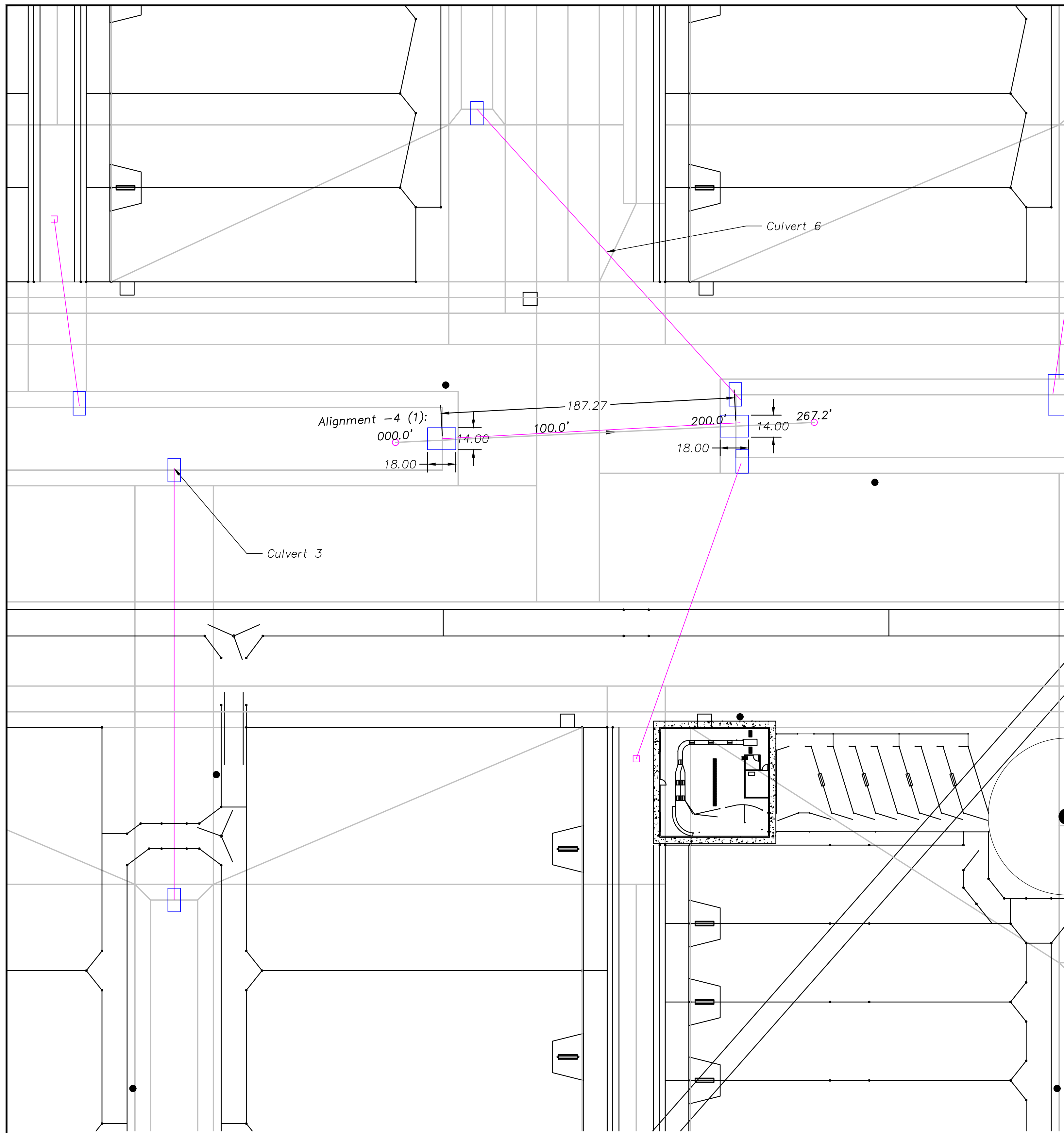
2 Profile View Culvert 3  
Scale: 1" = NTS

Profile View of Alignment -3 (1)



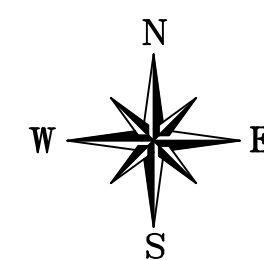
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 3 Notes:	
Size:	36" HDPE
Length:	274
Inlet:	2488.6
Outlet:	2482.1
Catchment Area:	669,166 sq ft
GPM Rain Event:	13,905
GPM Culvert:	60,102
All Rainfall Events Calculated at 2" per hour.	

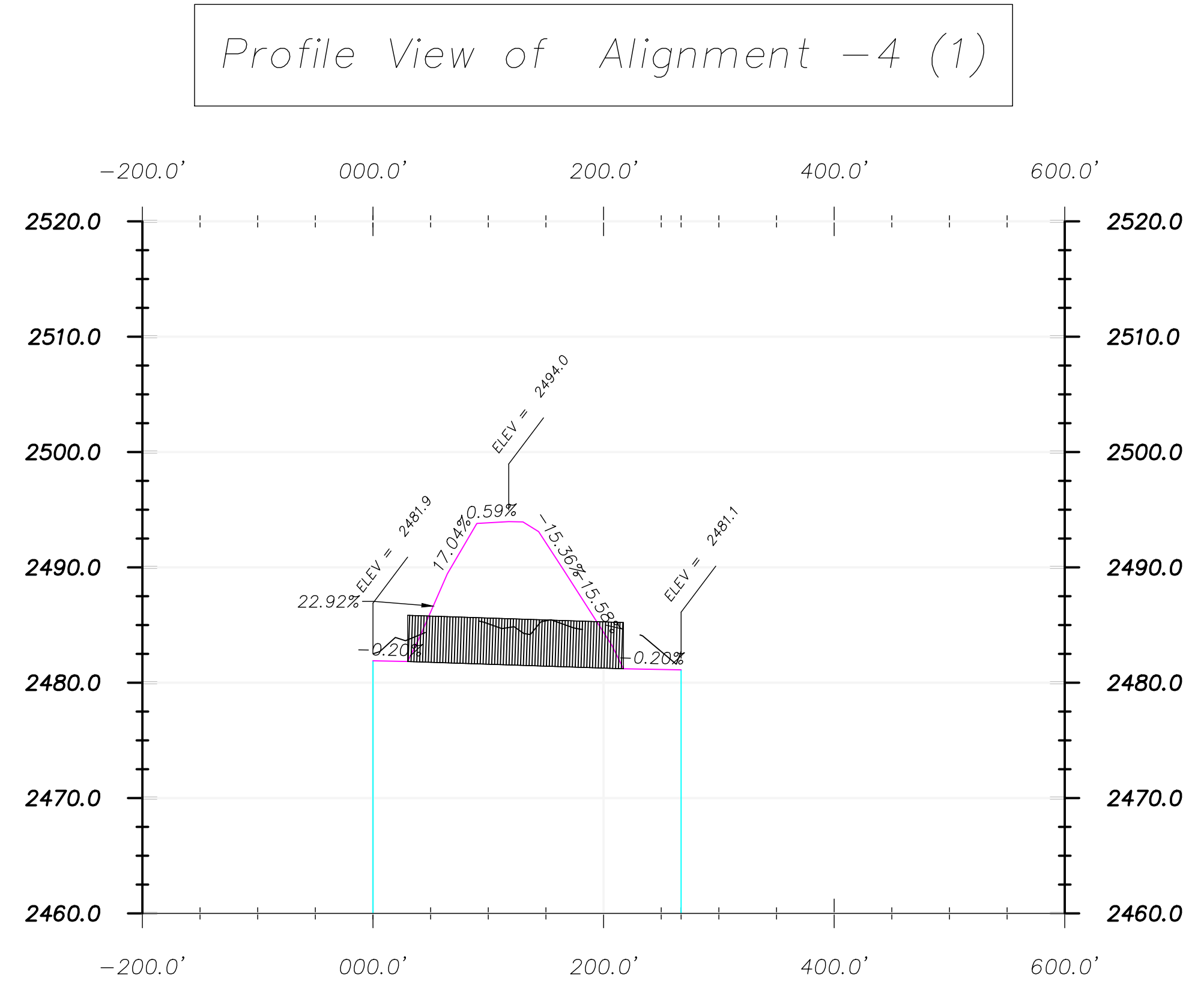


1 Plan View Culvert 4  
Scale: 1" = 40'

Culvert Legend	
<span style="color: pink;">—</span>	Culvert
<span style="color: blue;">—</span>	Concrete



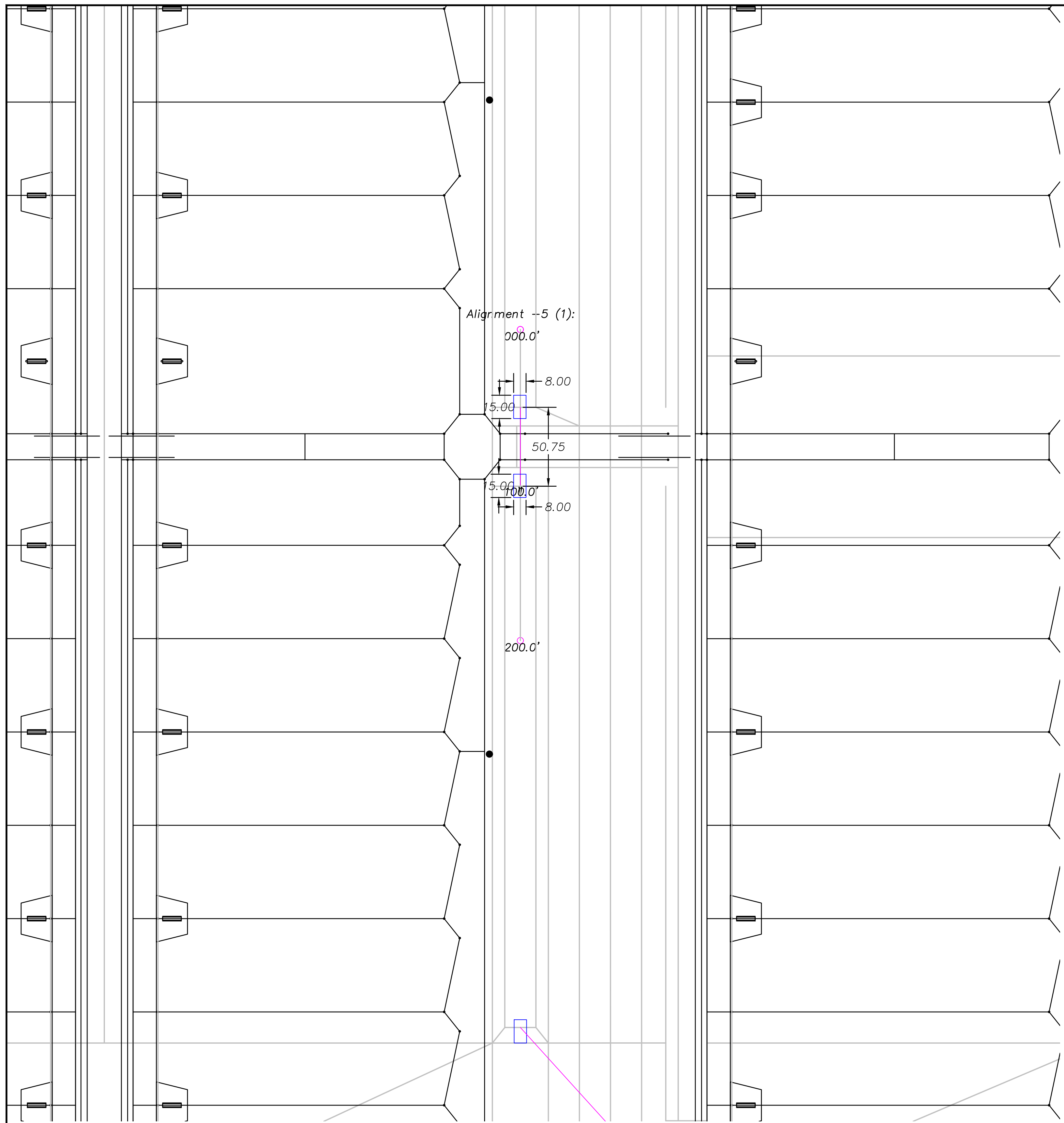
Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'



2 Profile View Culvert 4  
Scale: 1" = NTS

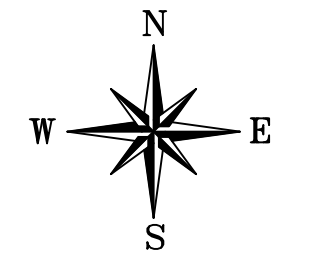
Cross Section Legend	
<span style="color: grey;">—</span>	Existing Ground
<span style="color: pink;">—</span>	Design Grade
<span style="color: red;">—</span>	Clay Liner

Culvert 4 Notes:	
Size:	48" HDPE
Length:	274
Inlet:	2481.8
Outlet:	2481.2
Catchment Area:	1,903,734 sq ft
GPM Rain Event:	39,560
GPM Culvert:	47,225
All Rainfall Events Calculated at 2" per hour.	



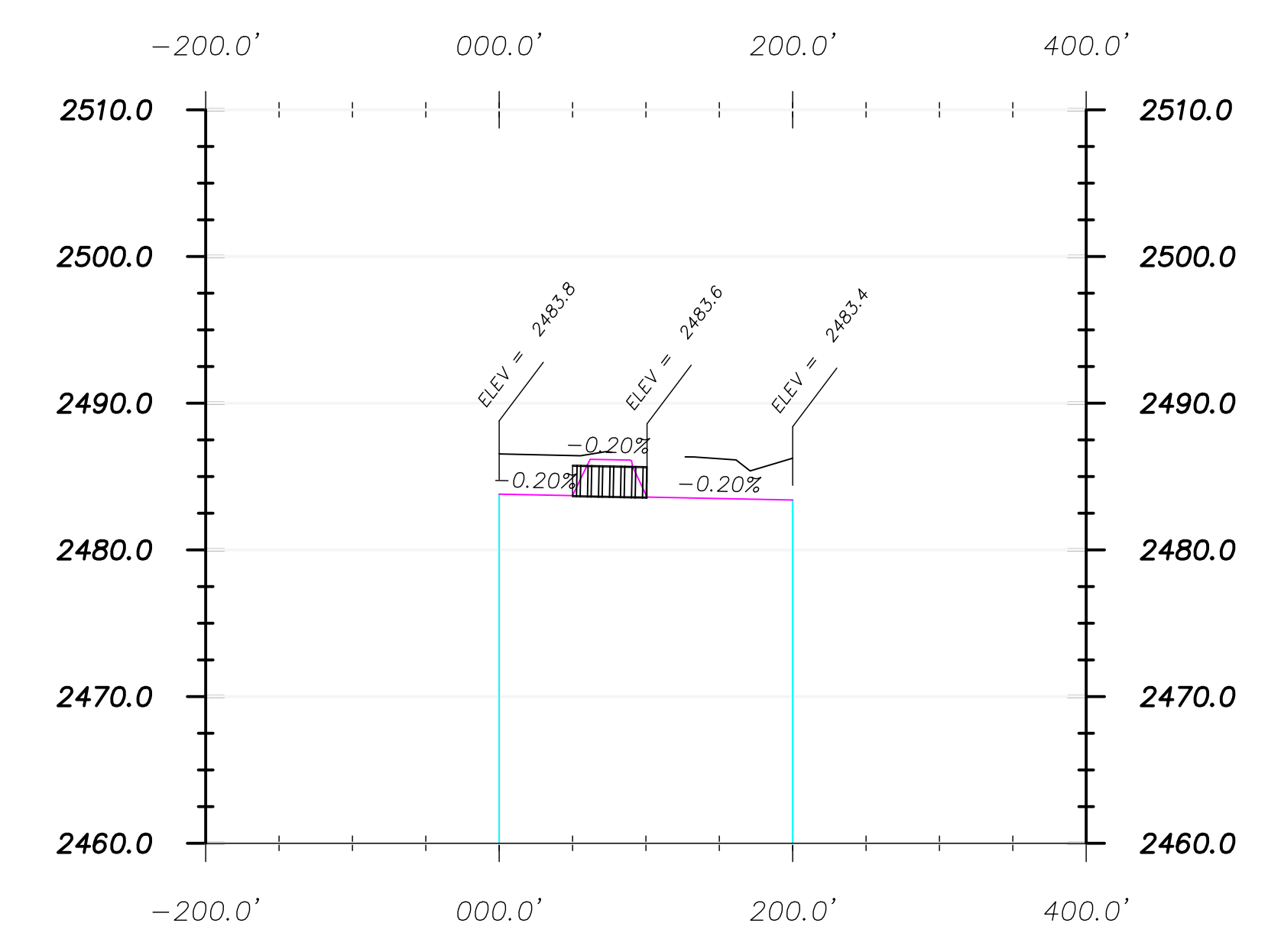
1 Plan View Culvert 5  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'

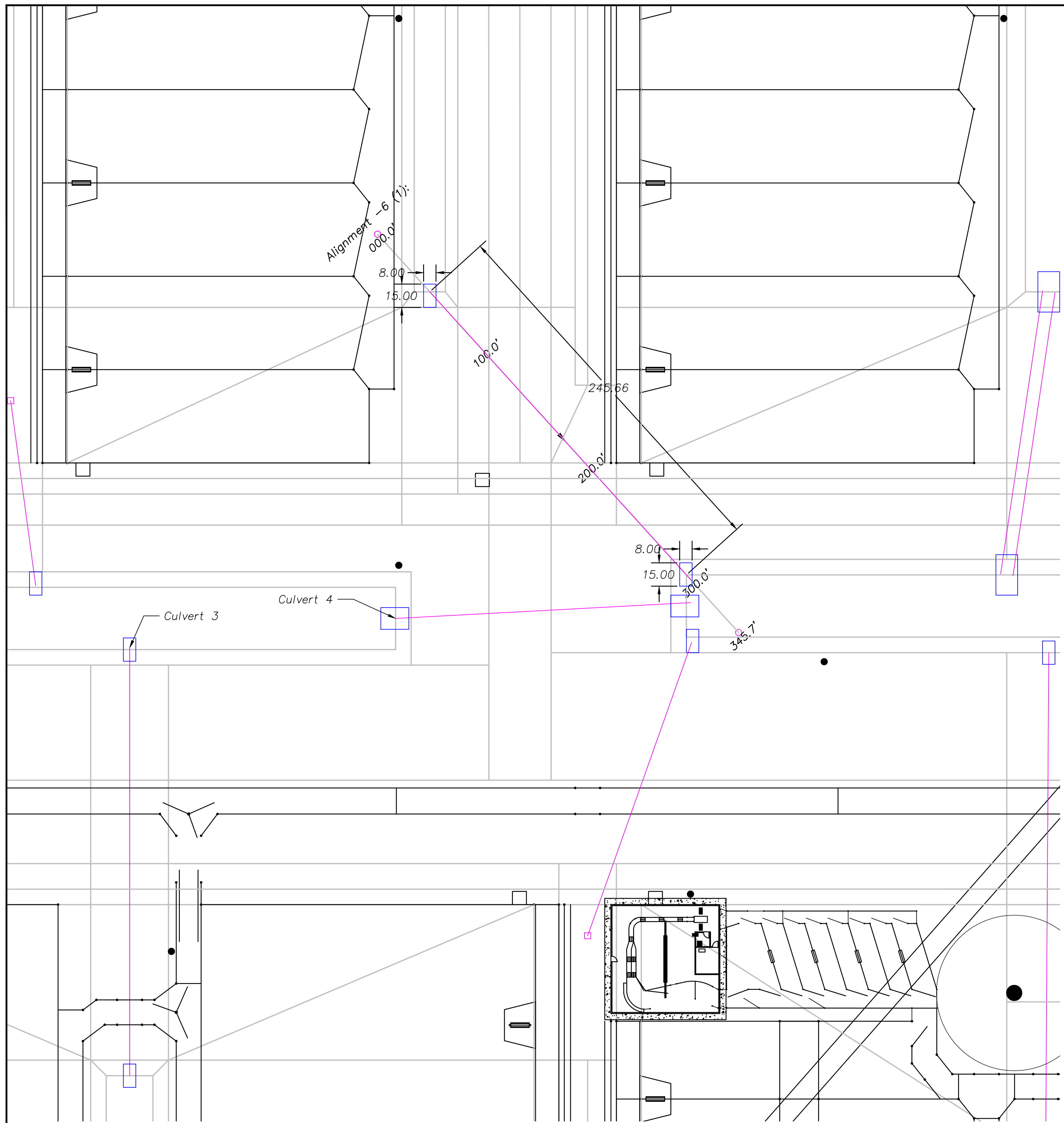
Profile View of Alignment -5 (1)



Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

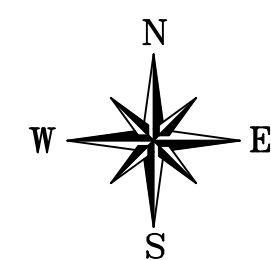
2 Profile View Culvert 5  
Scale: 1" = NTS

Culvert 5 Notes:	
Size:	24" HDPE
Length:	50
Inlet:	2483.6
Outlet:	2483.5
Catchment Area:	168,855 sq ft
GPM Rain Event:	3,508
GPM Culvert:	5,918
All Rainfall Events Calculated at 2" per hour.	

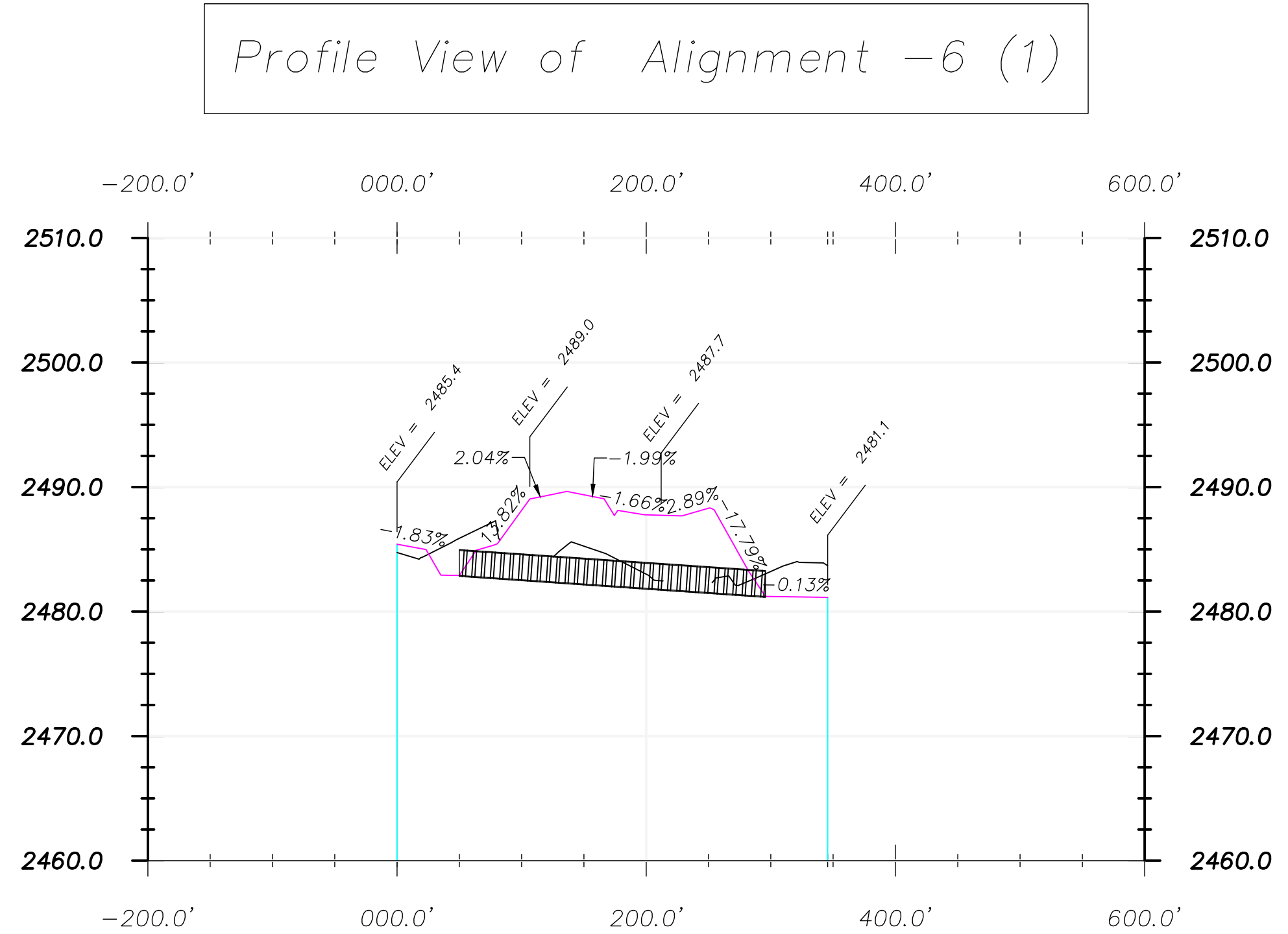


1 Plan View Culvert 6  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'

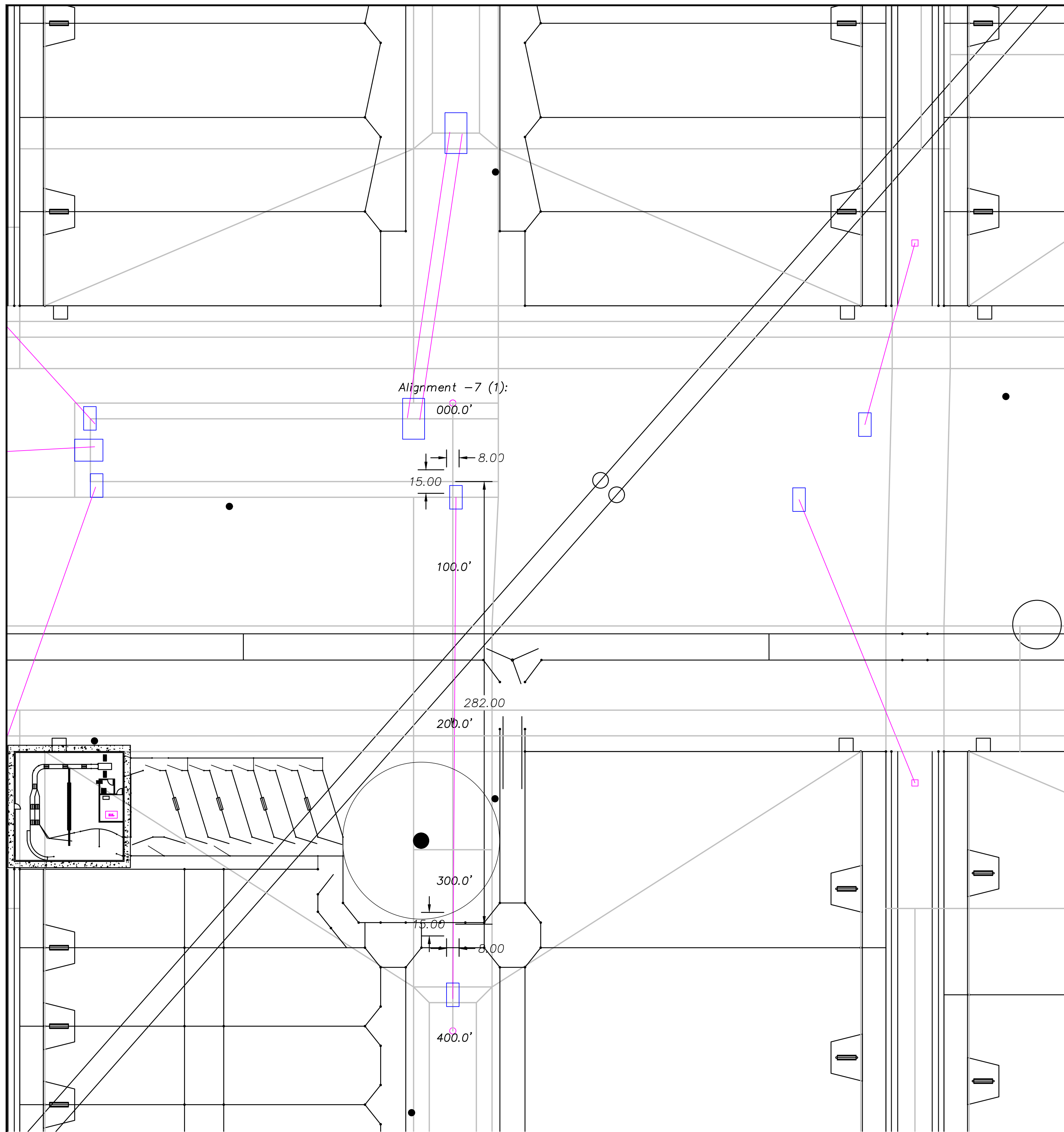


2 Profile View Culvert 6  
Scale: 1" = NTS

Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

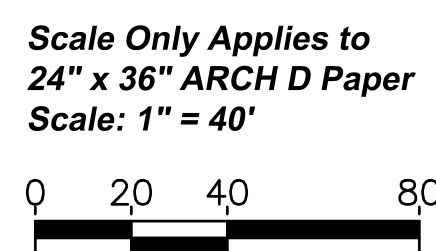
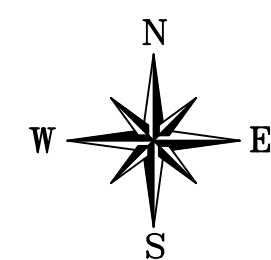
Culvert 6 Notes:	
Size:	24" HDPE
Length:	245
Inlet:	2482.9
Outlet:	2481.2
Catchment Area:	316,804 sq ft
GPM Rain Event:	6,583
GPM Culvert:	11,024
All Rainfall Events Calculated at 2" per hour.	





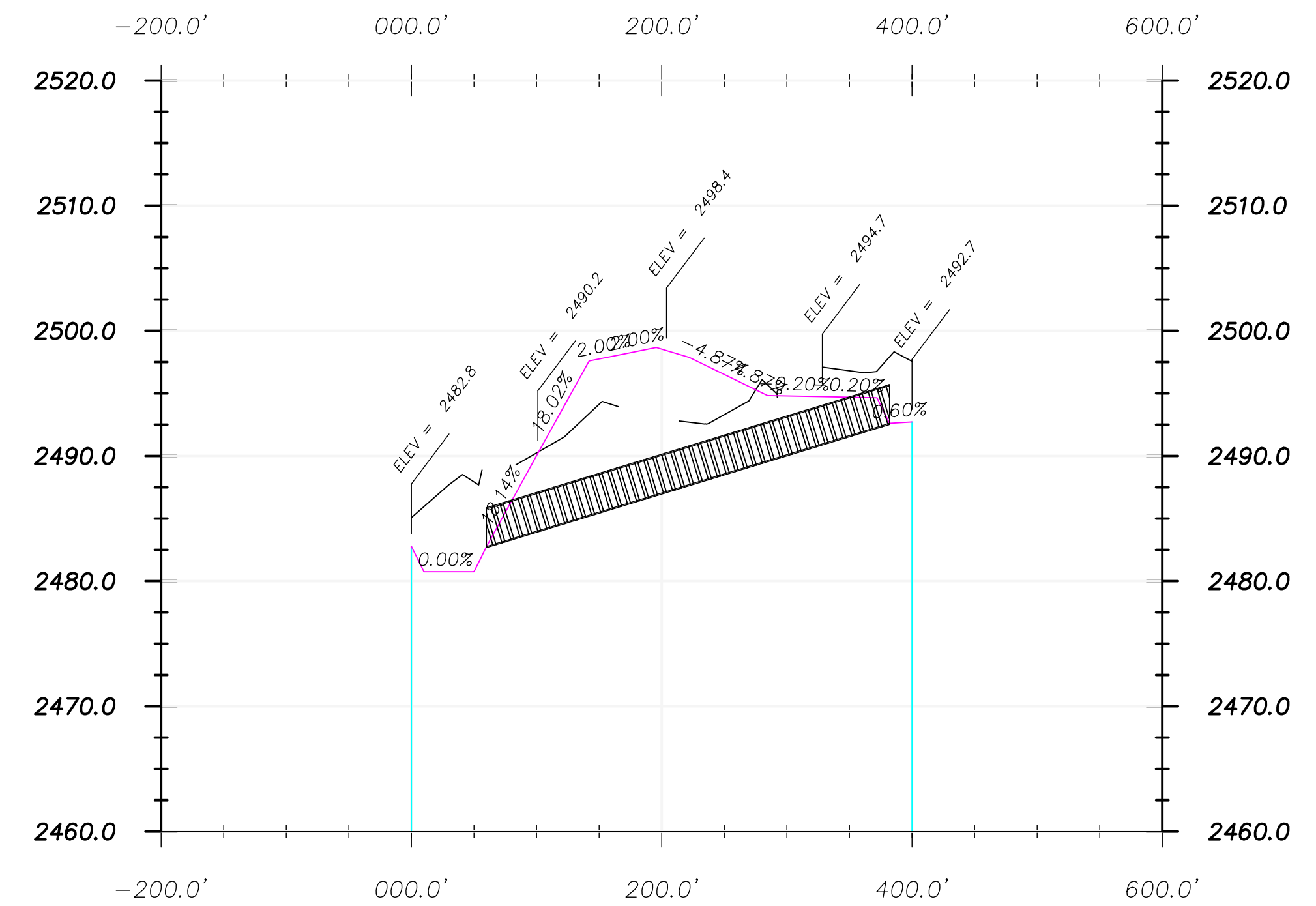
1 Plan View Culvert 7  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



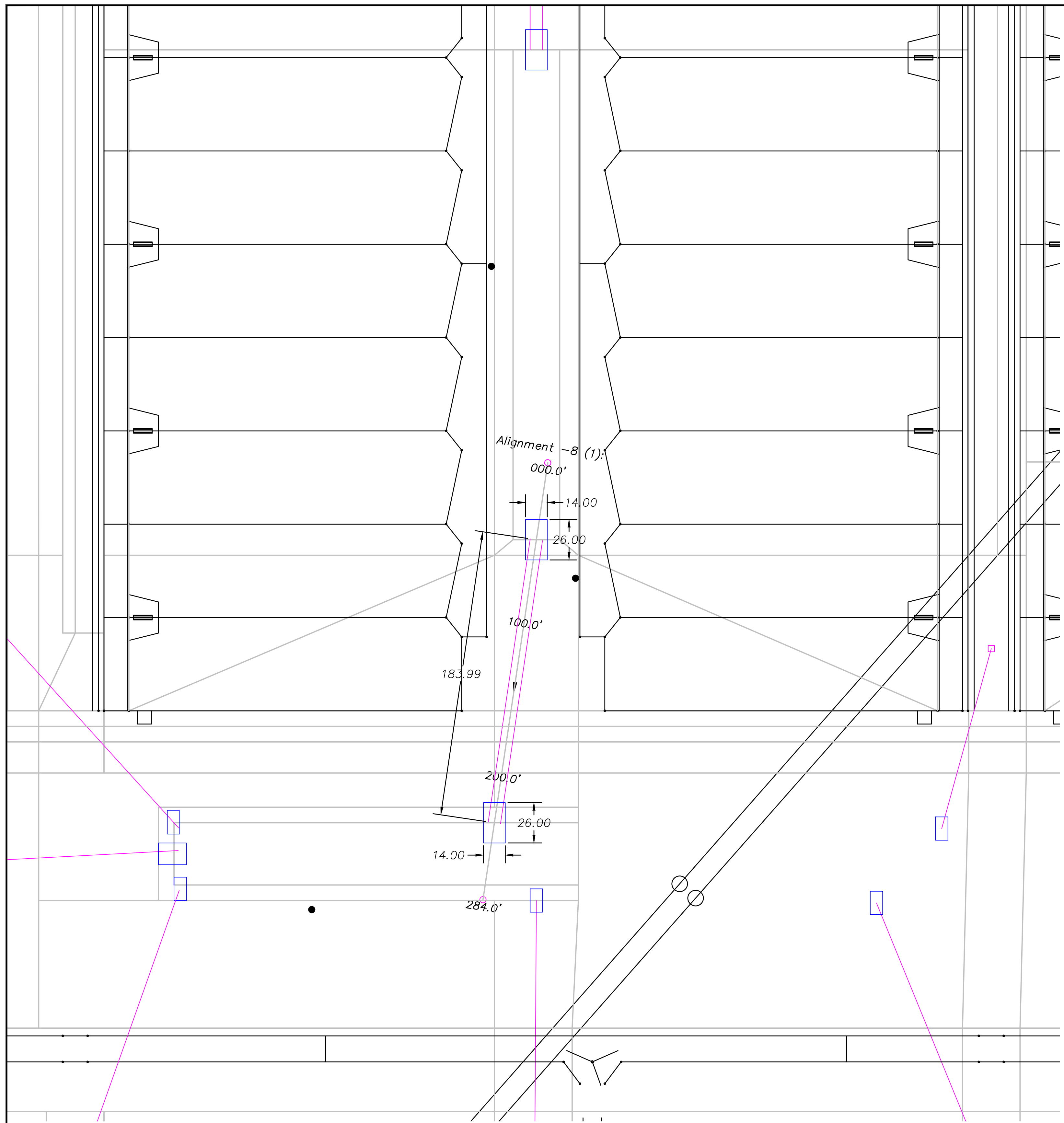
2 Profile View Culvert 7  
Scale: 1" = NTS

Profile View of Alignment -7 (1)



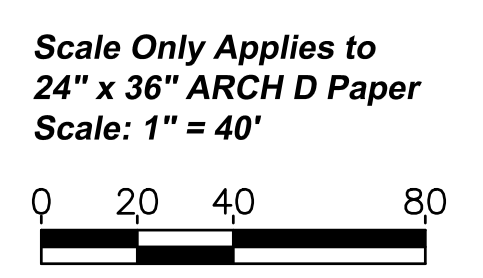
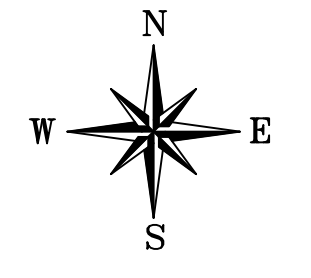
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 7 Notes:	
Size:	36" HDPE
Length:	282
Inlet:	2492.6
Outlet:	2480.6
Catchment Area:	727,194 sq ft
GPM Rain Event:	15,111
GPM Culvert:	27,302
All Rainfall Events Calculated at 2" per hour.	

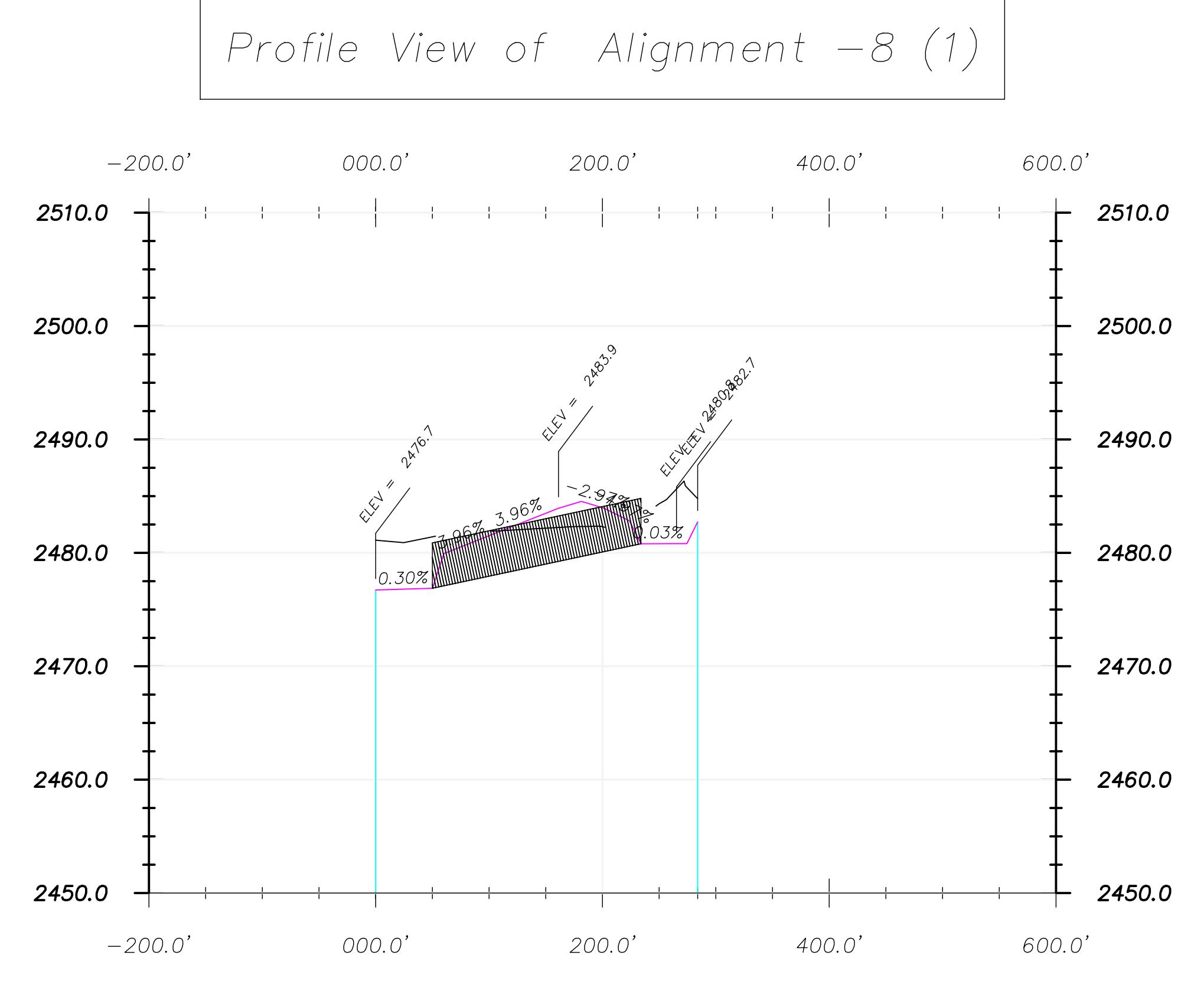


1 Plan View Culvert 8  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete

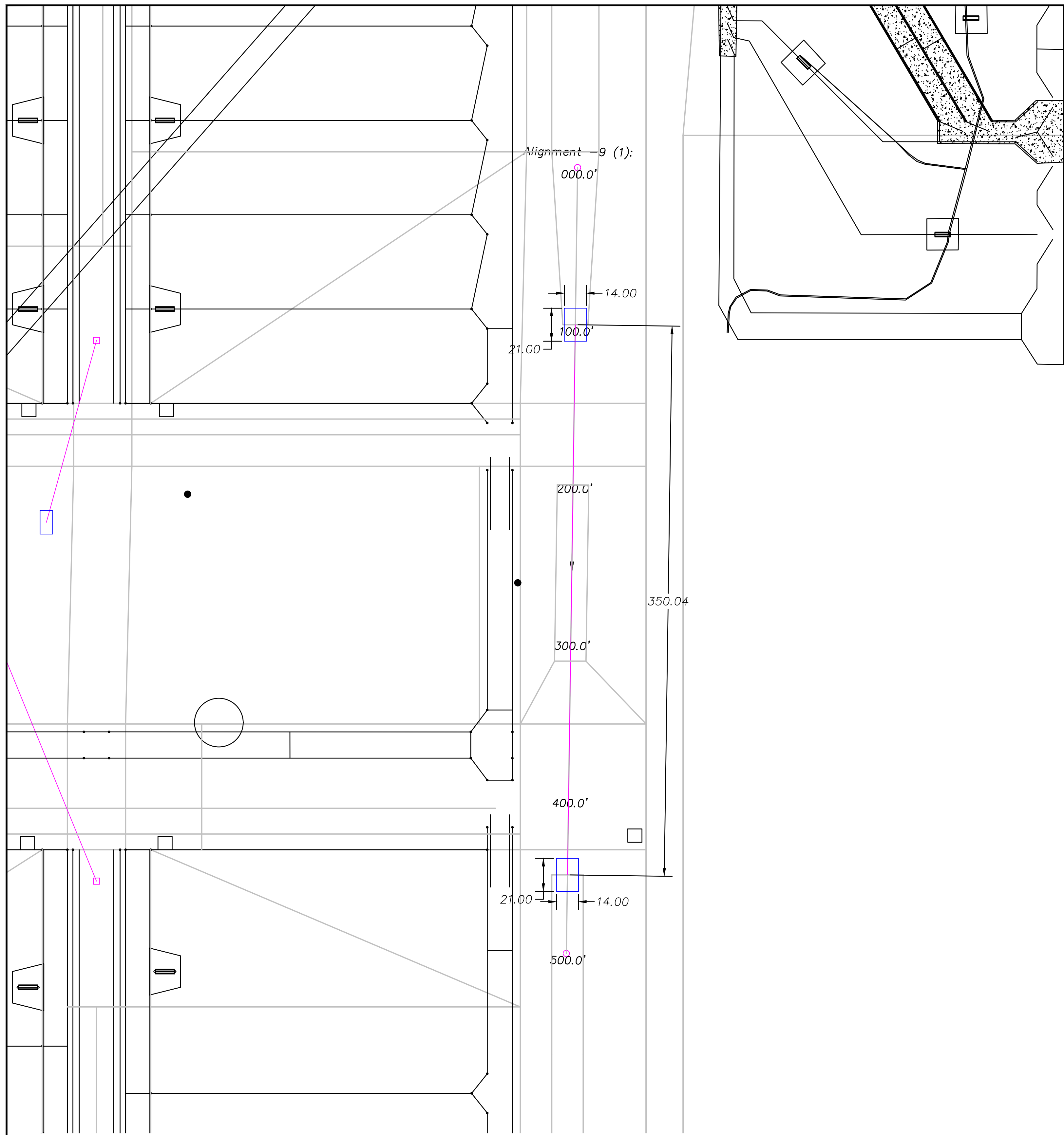


2 Profile View Culvert 8  
Scale: 1" = NTS



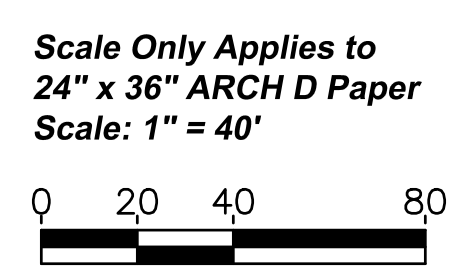
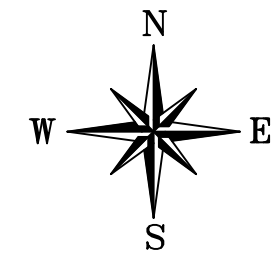
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 8 Notes:	
Size:	48" HDPE
Length:	182
Inlet:	2480.6
Outlet:	2476.8
Catchment Area:	3,072.886 sq ft
GPM Rain Event:	123,908
GPM Culvert:	63,856 Each
All Rainfall Events Calculated at 2" per hour.	

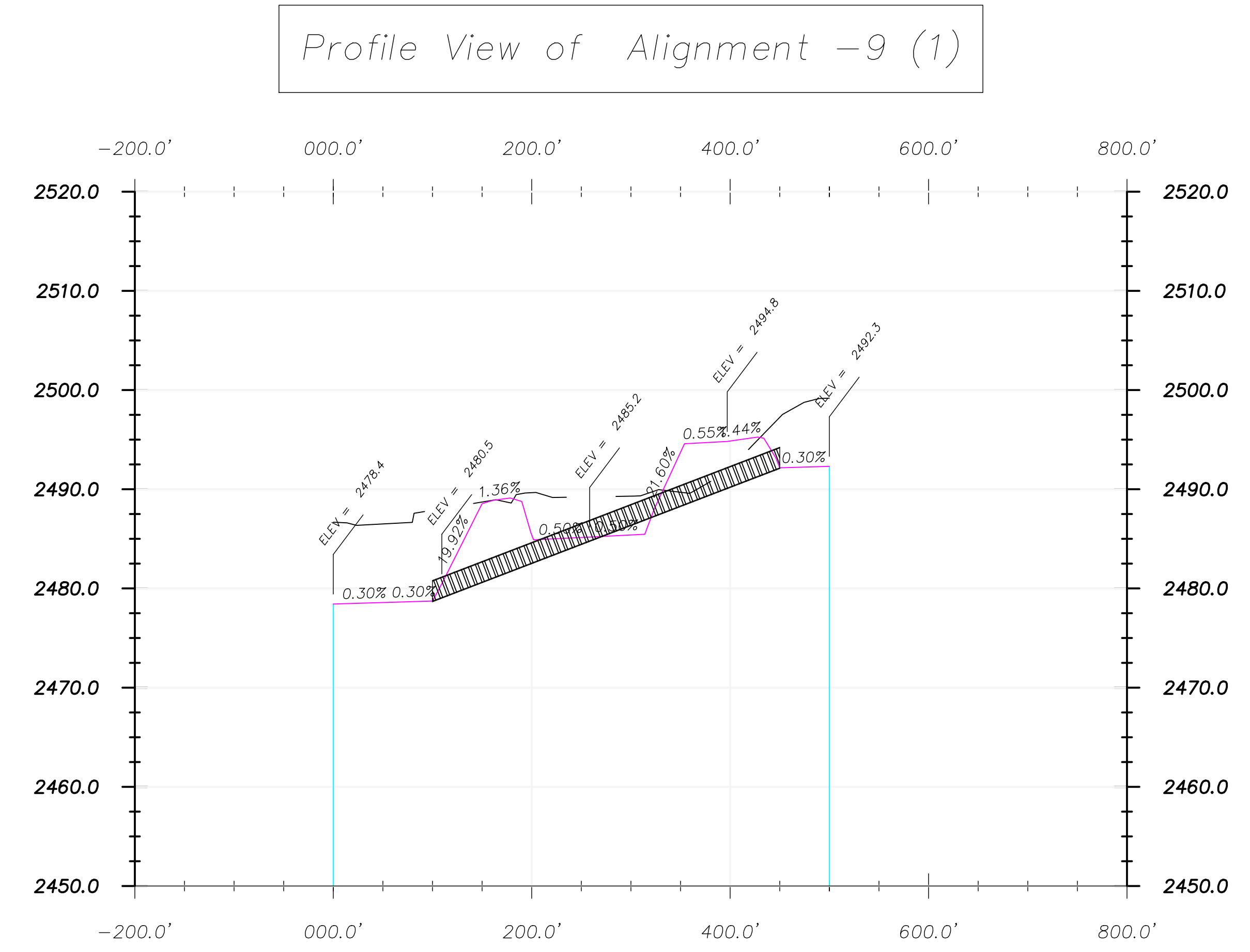


1 Plan View Culvert 9  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete

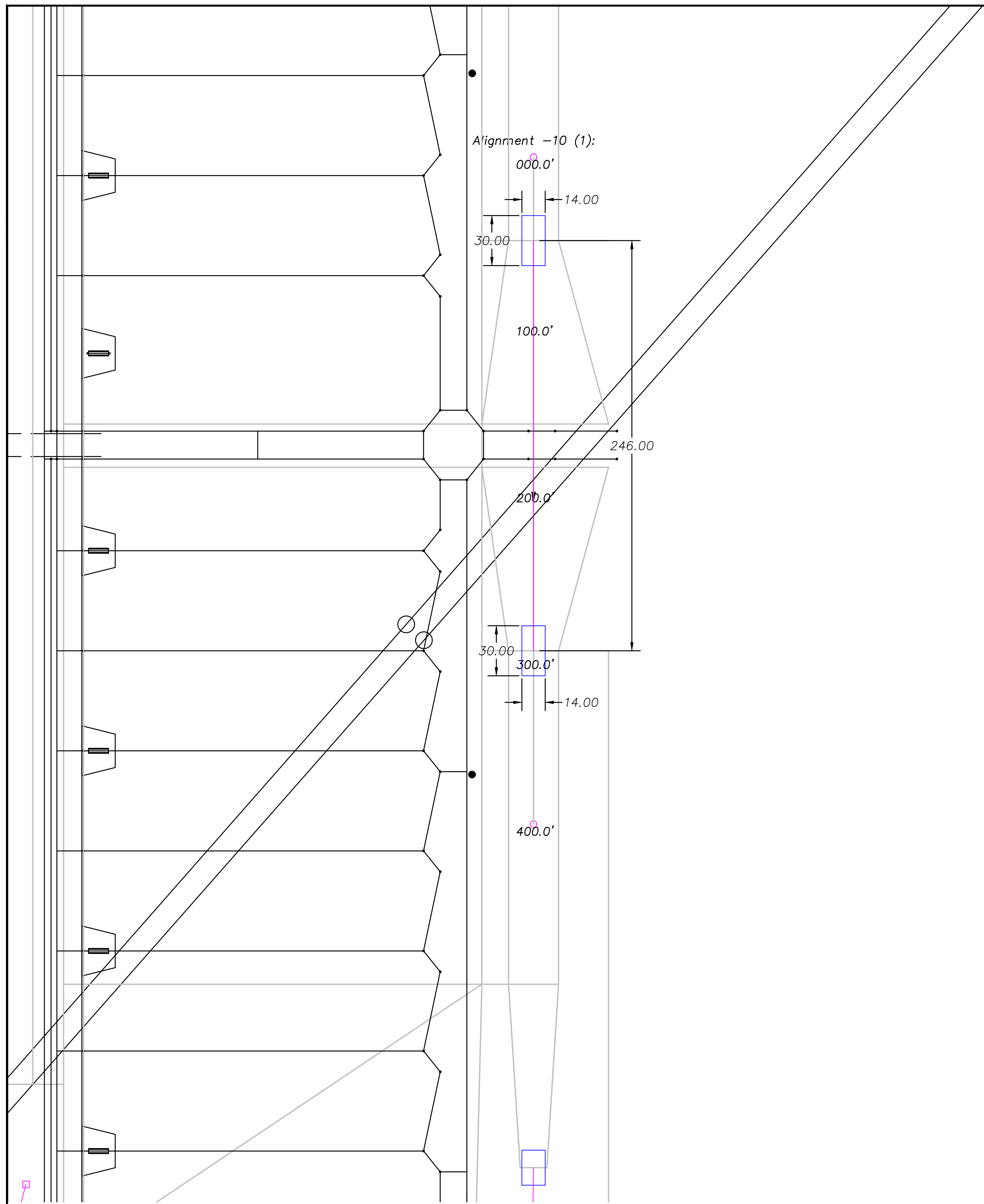


2 Profile View Culvert 9  
Scale: 1" = NTS



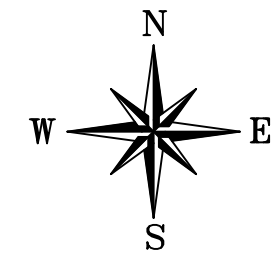
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 9 Notes:	
Size:	36" HDPE
Length:	350
Inlet:	2478.9
Outlet:	2492.3
Catchment Area:	454,741 sq ft
GPM Rain Event:	9,449
GPM Culvert:	25,897
All Rainfall Events Calculated at 2" per hour.	

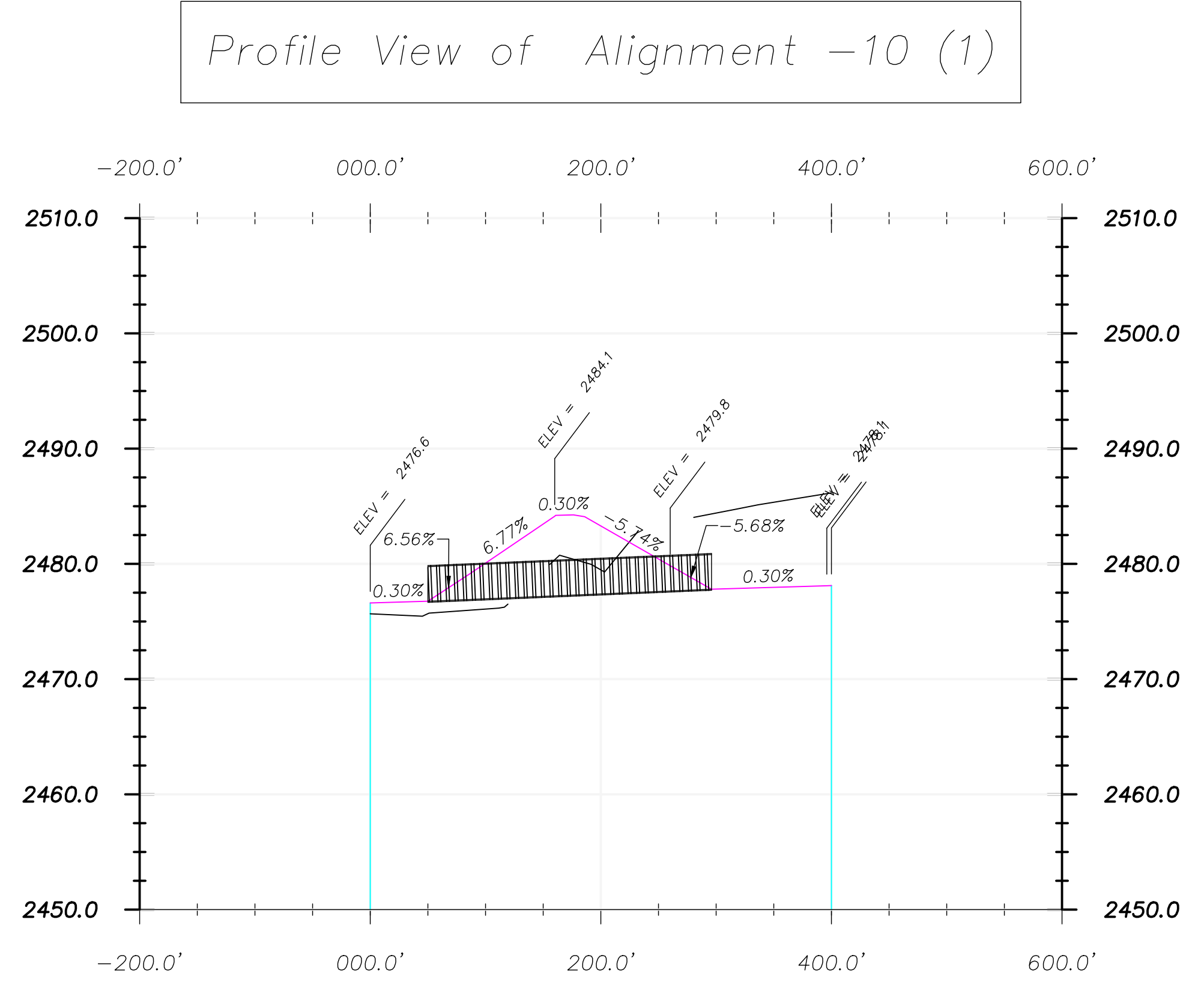


1 Plan View Culvert 10  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



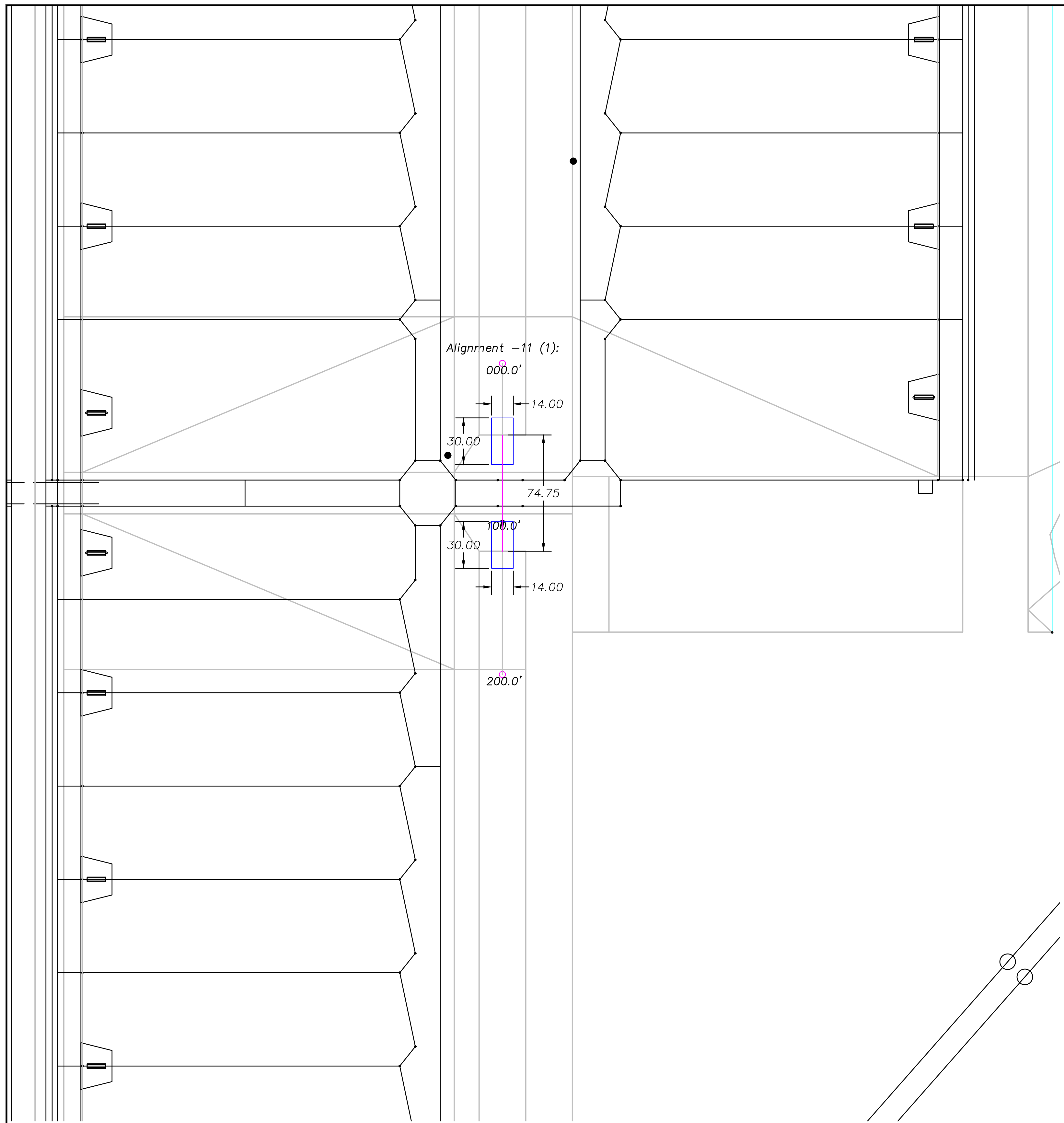
Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'



2 Profile View Culvert 10  
Scale: 1" = NTS

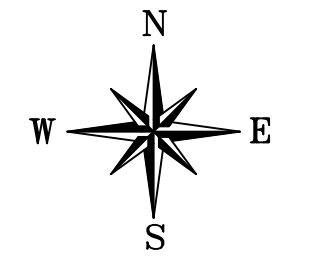
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 10 Notes:	
Size:	36" HDPE
Length:	246
Inlet:	2477.7
Outlet:	2476.7
Catchment Area:	619,203 sq ft
GPM Rain Event:	12,867
GPM Culvert:	24,879
All Rainfall Events Calculated at 2" per hour.	



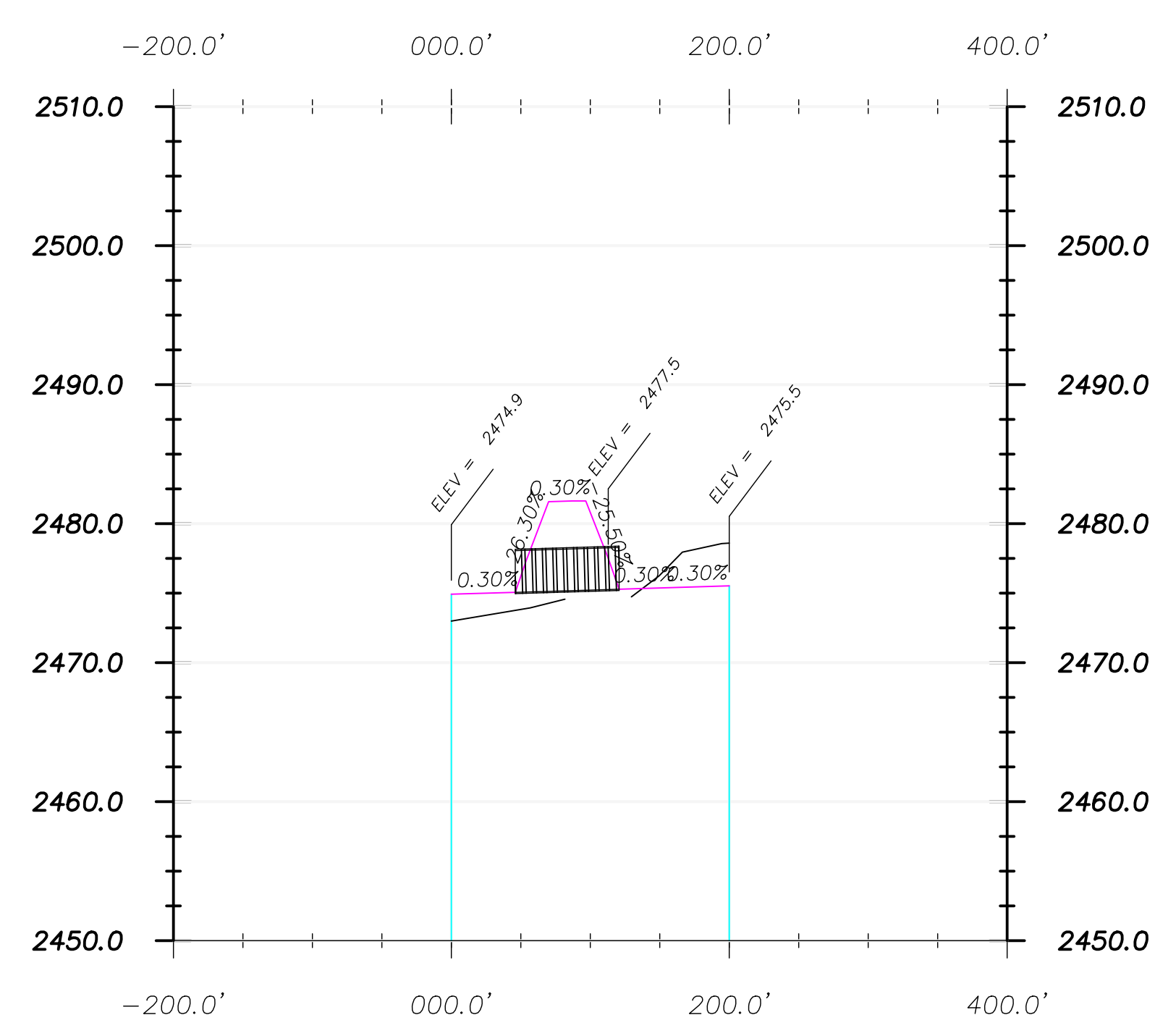
1 Plan View Culvert 11  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'

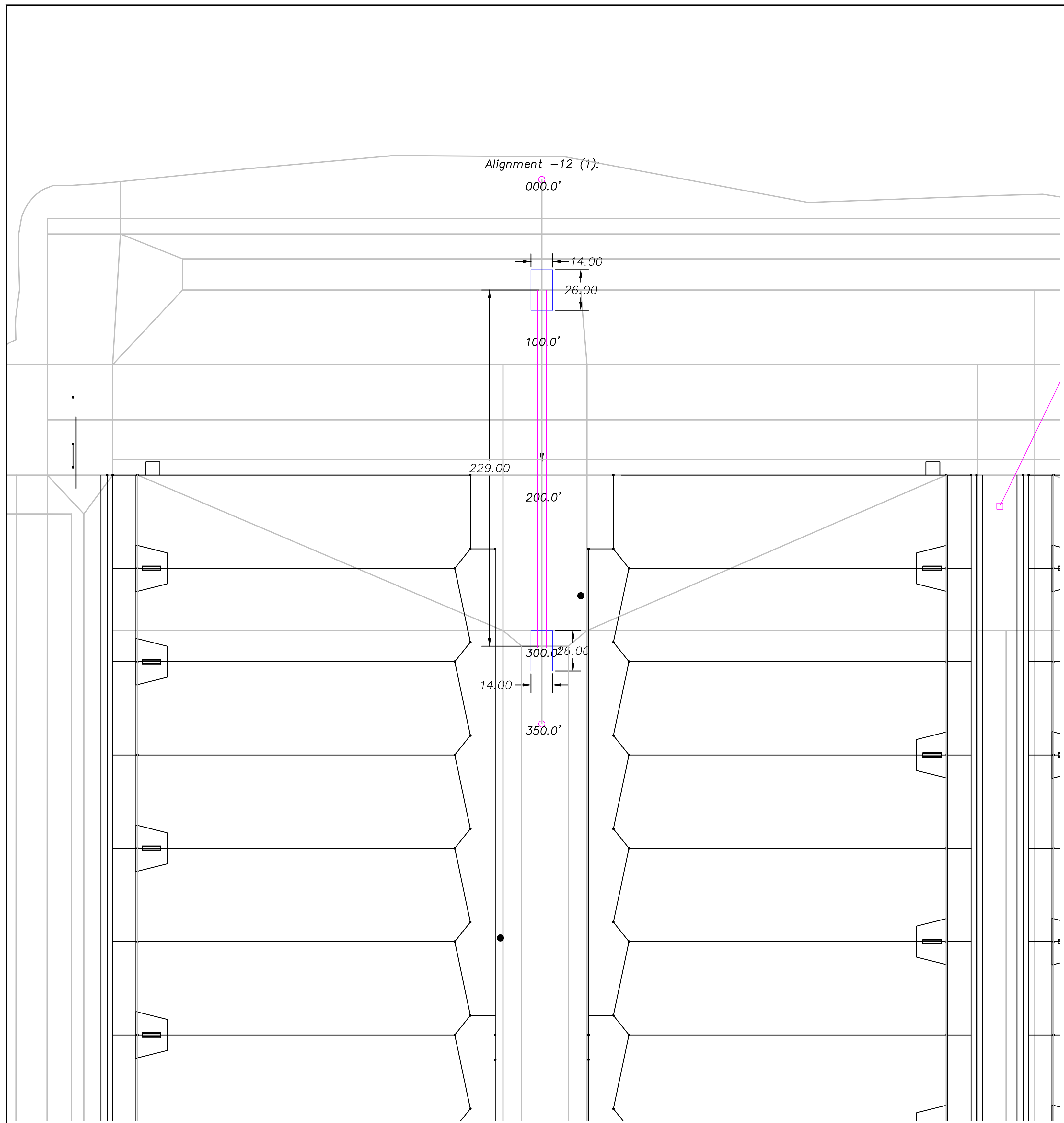
Profile View of Alignment -11 (1)



2 Profile View Culvert 11  
Scale: 1" = NTS

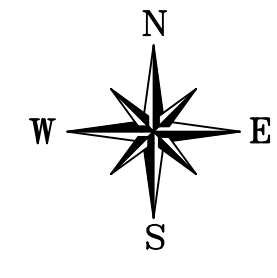
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 11 Notes:	
Size:	48" HDPE
Length:	75
Inlet:	2475.3
Outlet:	2475.0
Catchment Area:	830,780 sq ft
GPM Rain Event:	17,264
GPM Culvert:	24,679
All Rainfall Events Calculated at 2" per hour.	

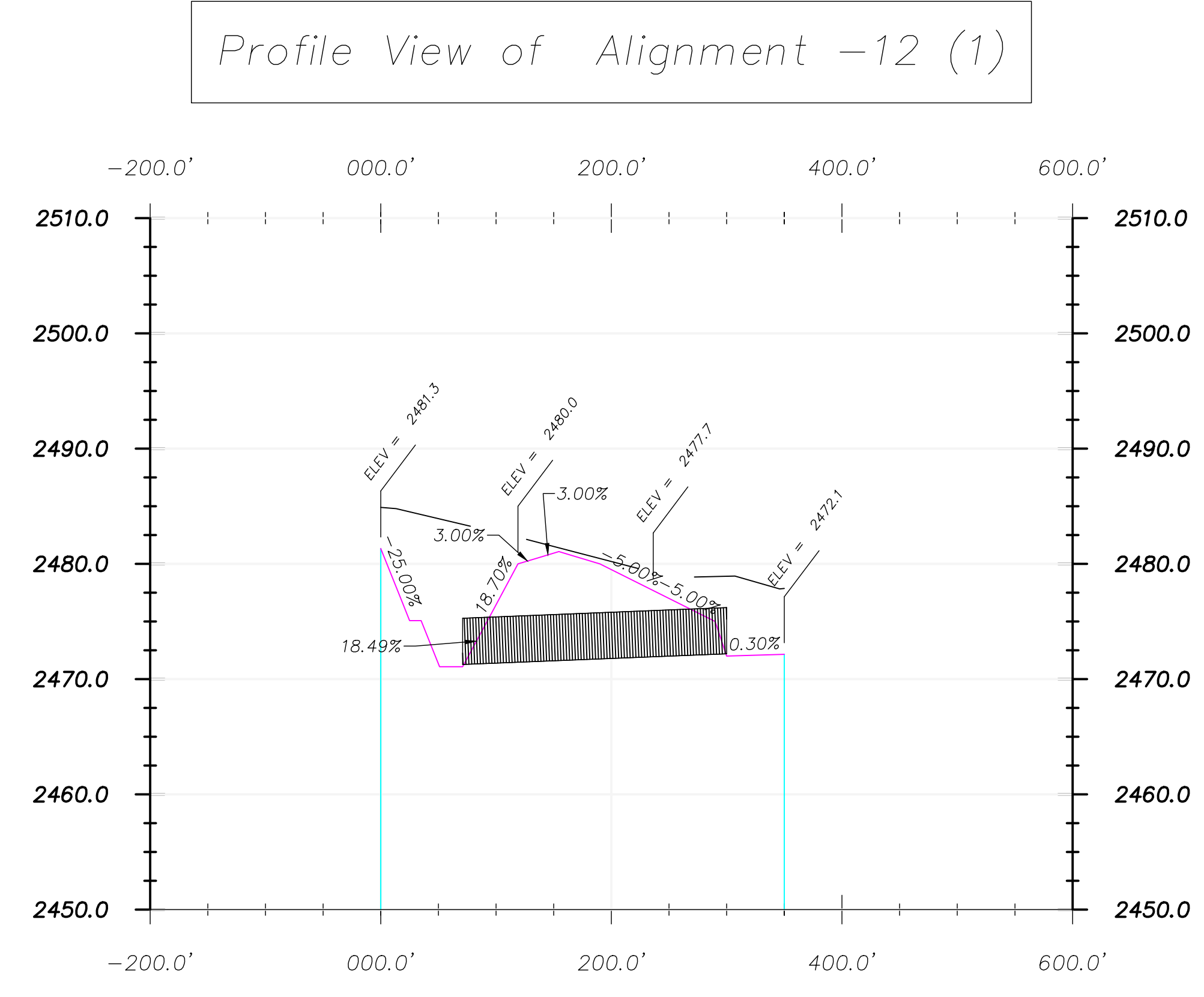


1 Plan View Culvert 12  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



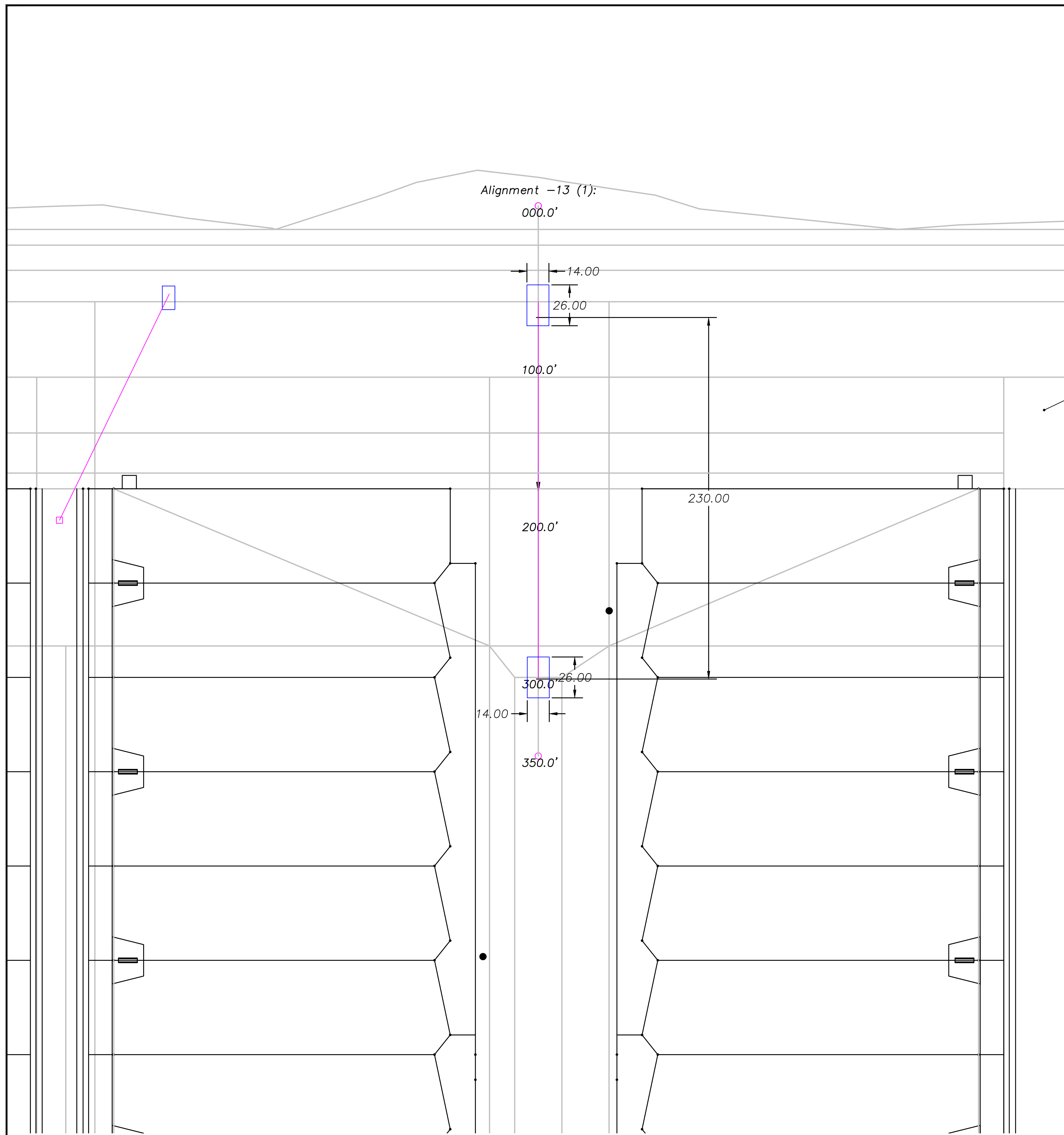
Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'



2 Profile View Culvert 12  
Scale: 1" = NTS

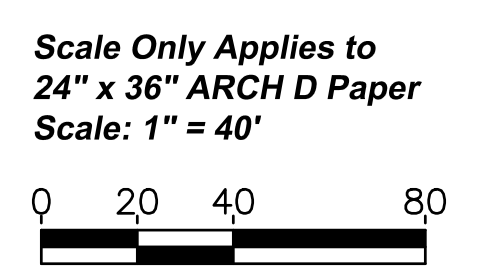
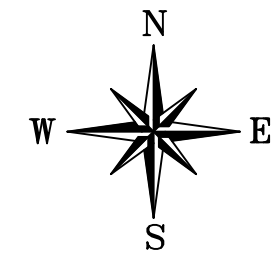
Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

Culvert 12 Notes:	
Size:	48" HDPE
Length:	229
Inlet:	2472.0
Outlet:	2471
Catchment Area:	4,047,342 sq ft
GPM Rain Event:	84,106
GPM Culvert:	55,534 Each
All Rainfall Events Calculated at 2" per hour.	

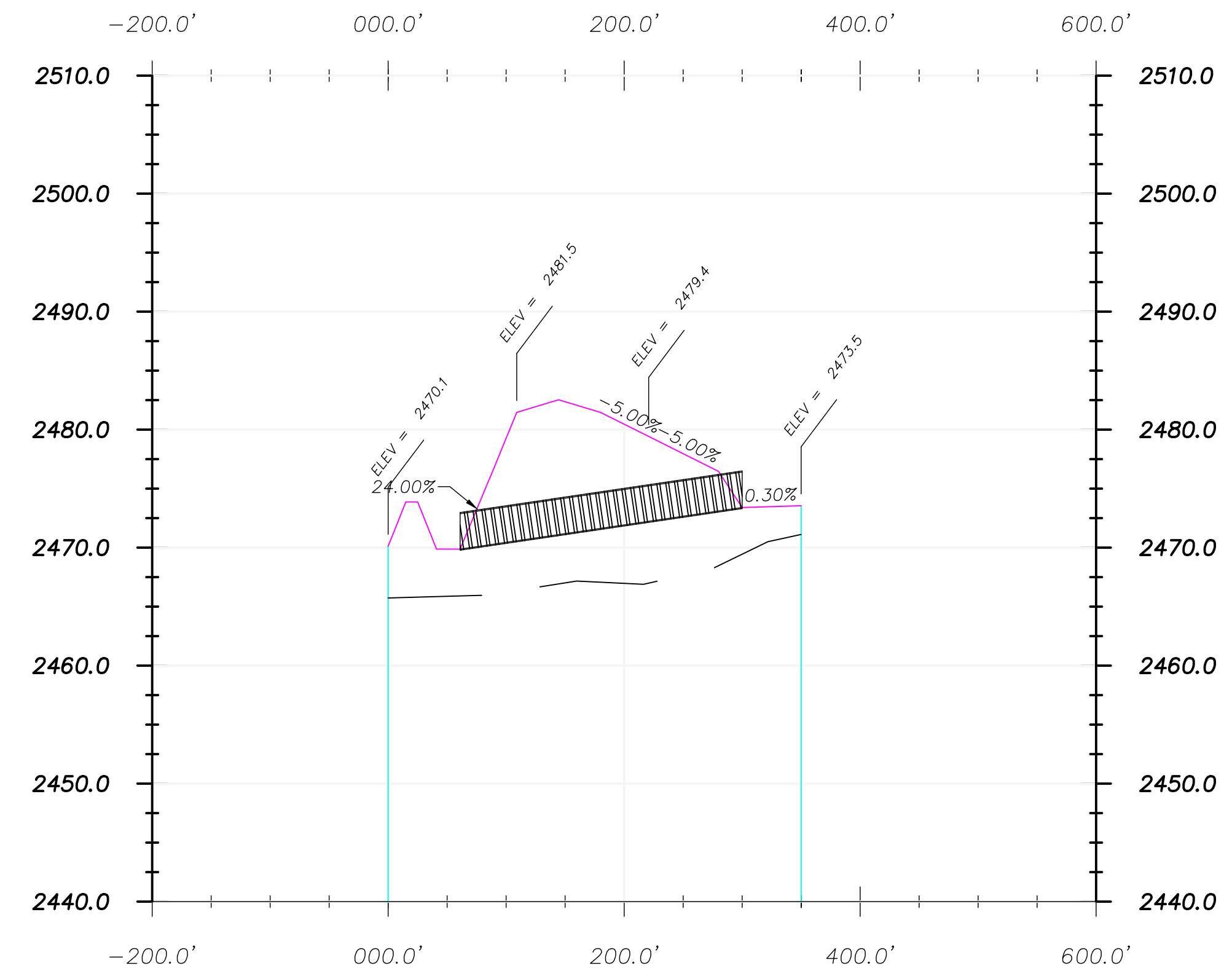


1 Plan View Culvert 13  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete



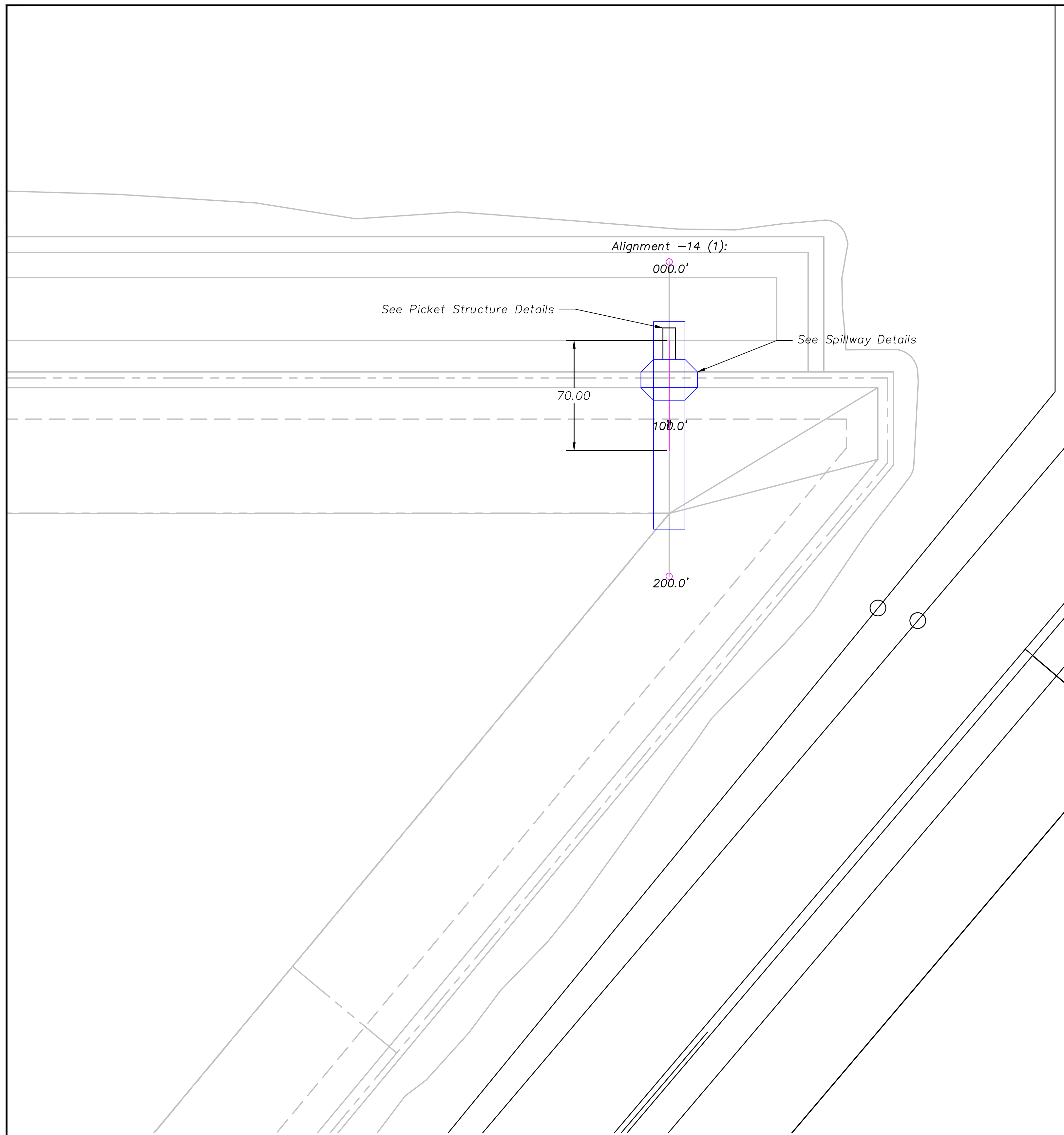
Profile View of Alignment -13 (1)



Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

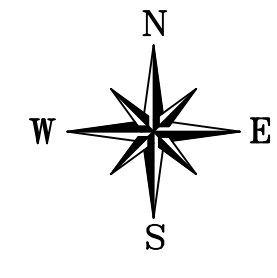
2 Profile View Culvert 13  
Scale: 1" = NTS

Culvert 13 Notes:	
Size:	36" HDPE
Length:	239
Inlet:	2473.4
Outlet:	2469.8
Catchment Area:	1,259,018 sq ft
GPM Rain Event:	26,163
GPM Culvert:	47,891
All Rainfall Events Calculated at 2" per hour.	



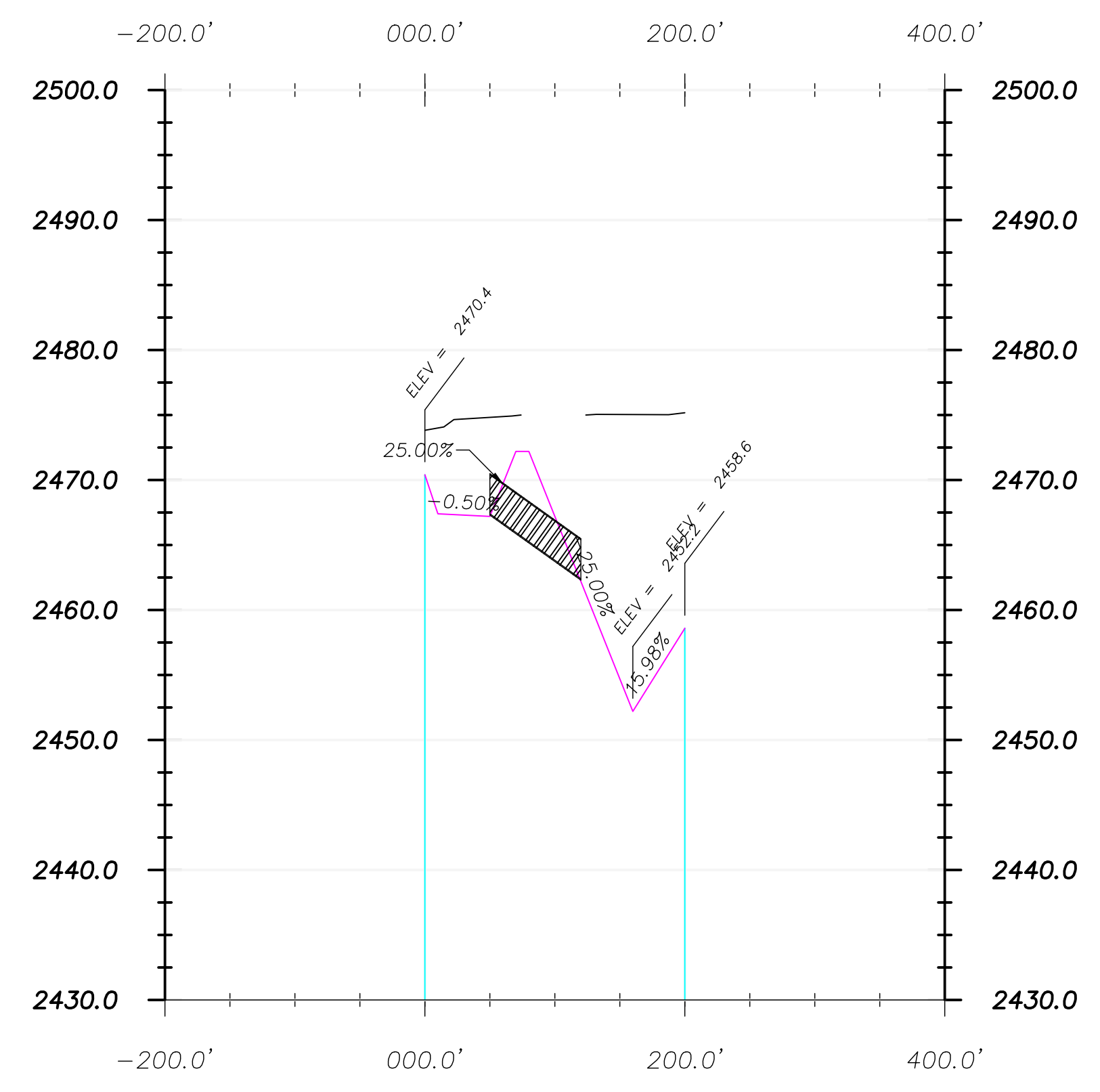
1 Plan View Culvert 14  
Scale: 1" = 40'

Culvert Legend	
<span style="color: blue;">—</span>	Culvert
<span style="color: blue;">—</span>	Concrete



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'

Profile View of Alignment -14 (1)

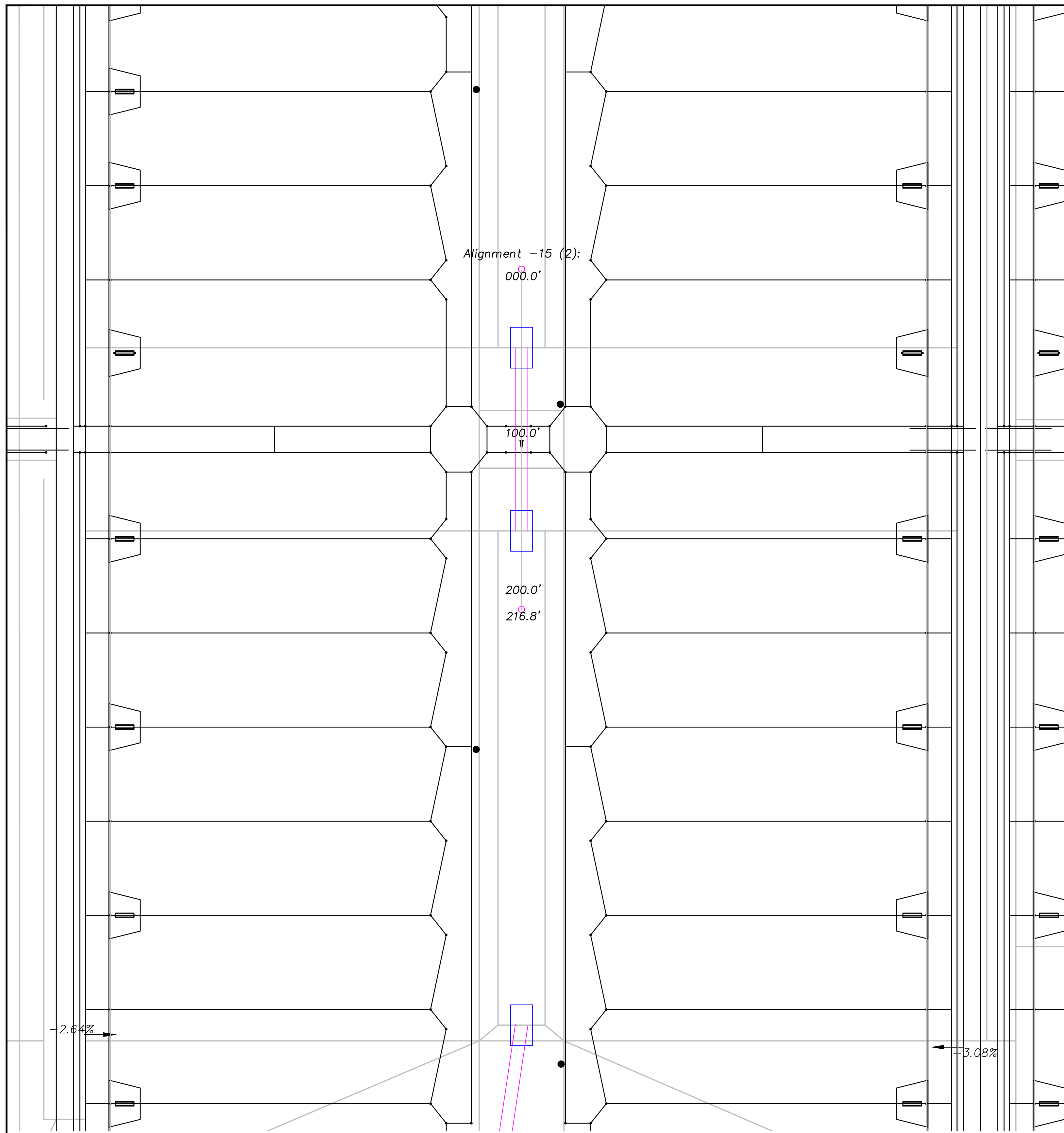


2 Profile View Culvert 14  
Scale: 1" = NTS

Cross Section Legend	
<span style="color: grey;">—</span>	Existing Ground
<span style="color: pink;">—</span>	Design Grade
<span style="color: red;">—</span>	Clay Liner

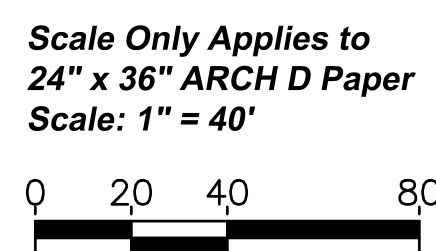
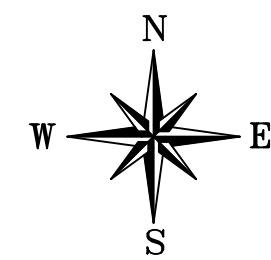
Culvert 14 Notes:	
Size:	36" HDPE
Length:	70
Inlet:	2467.2
Outlet:	2462.2
Catchment Area:	5,793,003 sq ft
GPM Rain Event:	120,381
GPM Culvert:	104,290
All Rainfall Events Calculated at 2" per hour.	



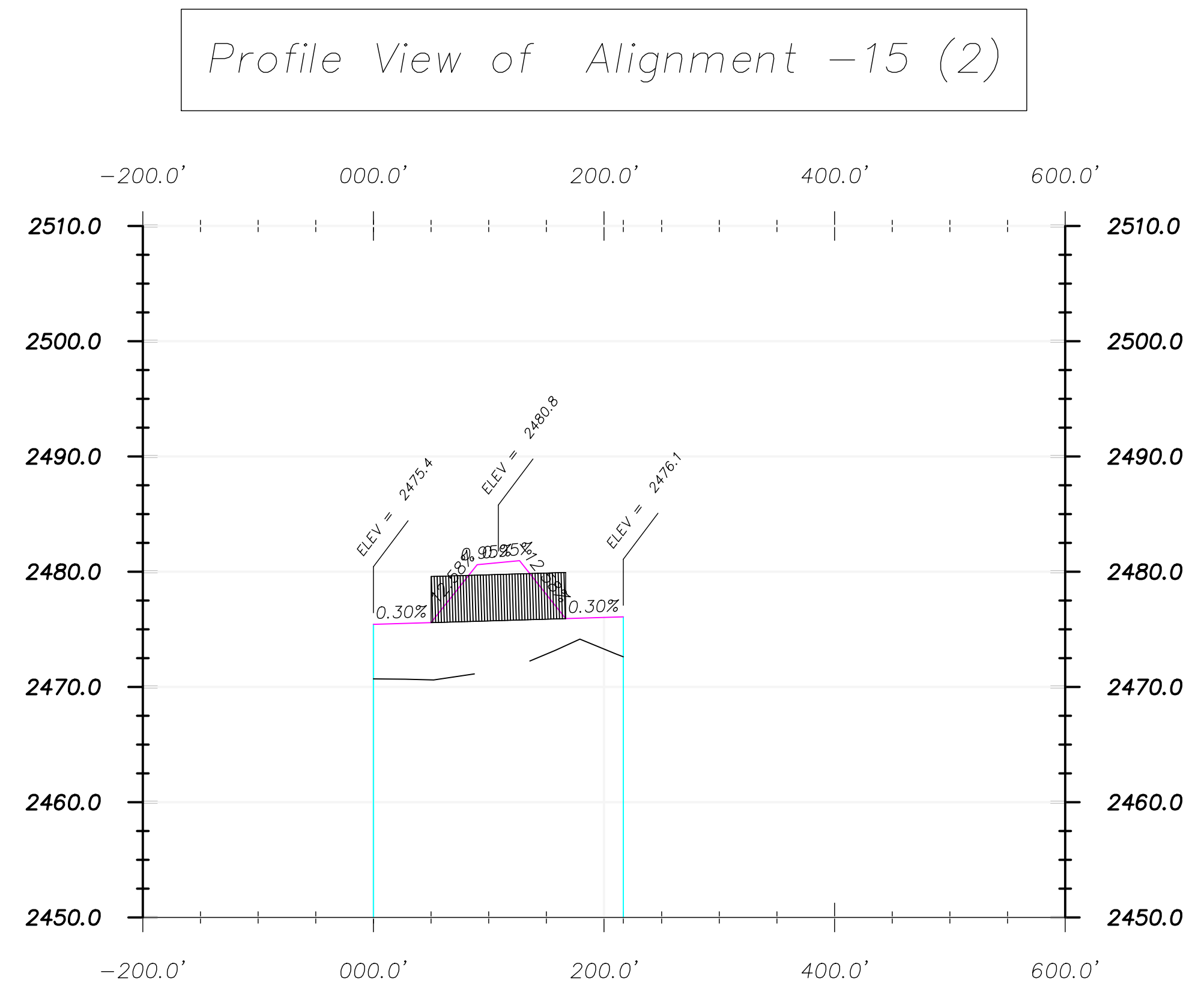


1 Plan View Culvert 15  
Scale: 1" = 40'

Culvert Legend	
	Culvert
	Concrete

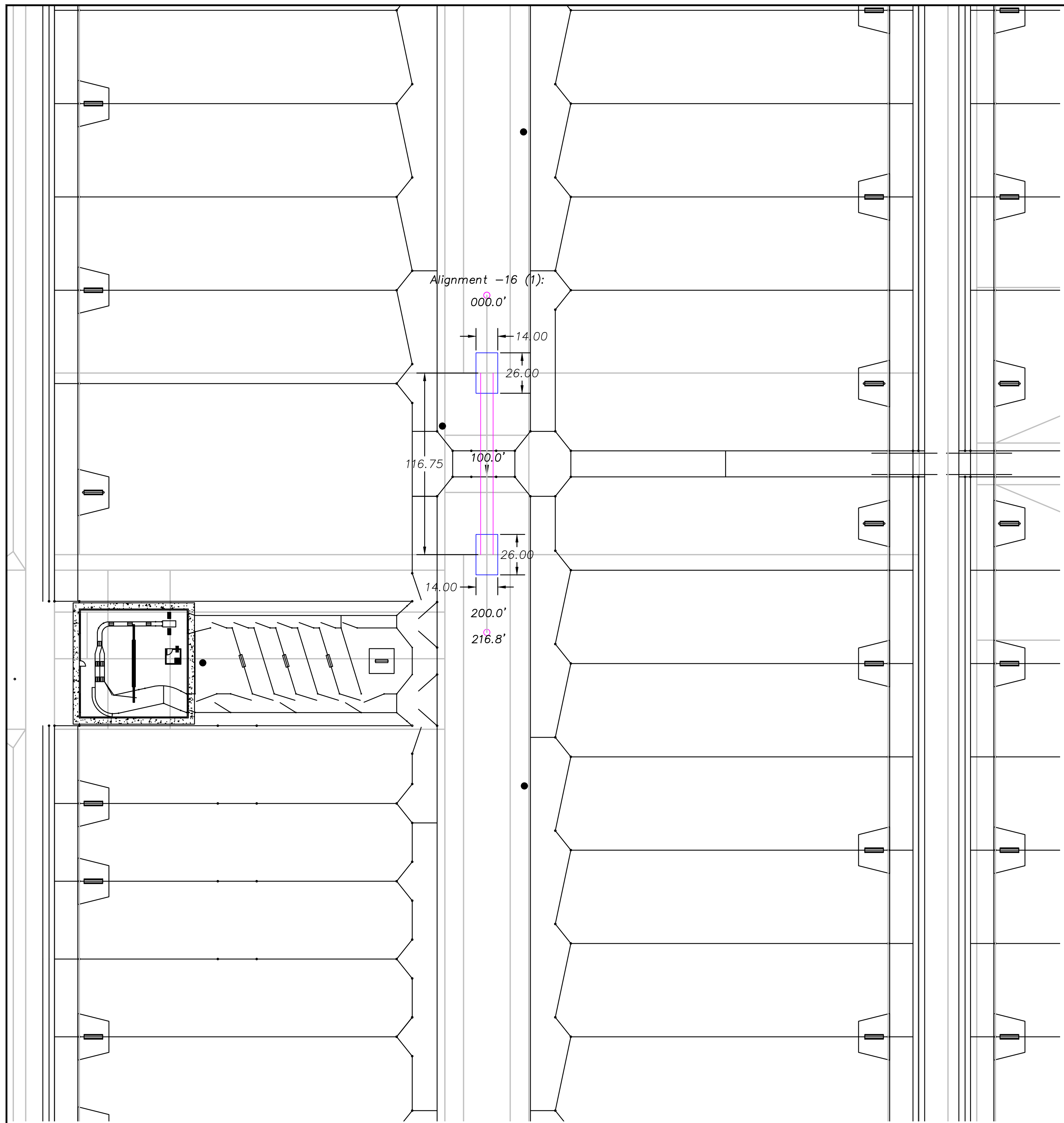


2 Profile View Culvert 15  
Scale: 1" = NTS



Cross Section Legend	
	Existing Ground
	Design Grade
	Clay Liner

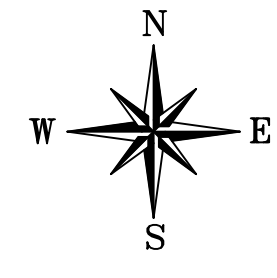
Culvert 15 Notes:	
Size:	48" HDPE
Length:	116
Inlet:	2475.9
Outlet:	2475.5
Catchment Area:	3,352,762 sq ft
GPM Rain Event:	69,672
GPM Culvert:	52,138 Each
All Rainfall Events Calculated at 2" per hour.	



1 Plan View Culvert 16  
Scale: 1" = 40'

**Culvert Legend**

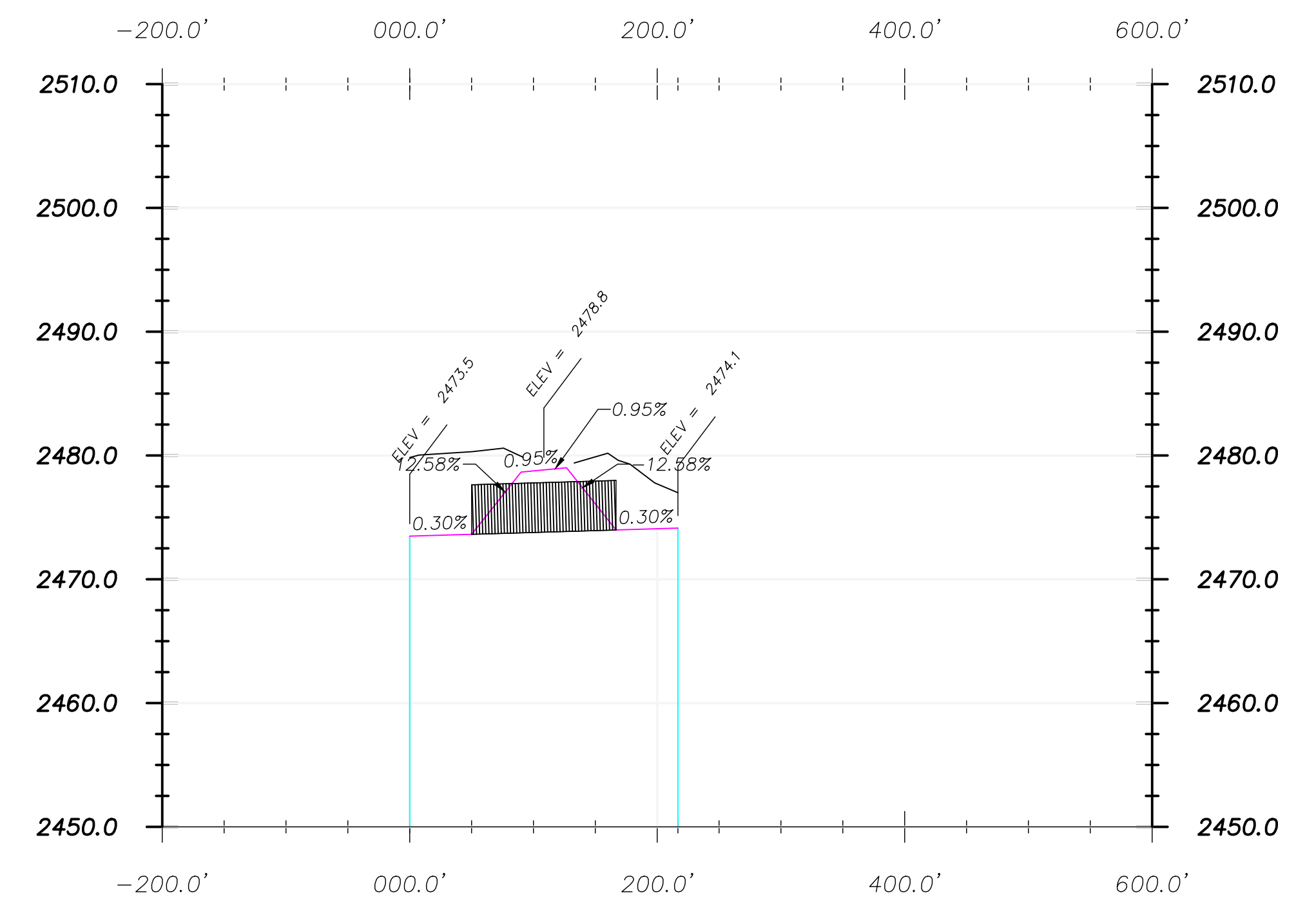
- Culvert
- Concrete



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 40'

2 Profile View Culvert 16  
Scale: 1" = NTS

Profile View of Alignment -16 (1)



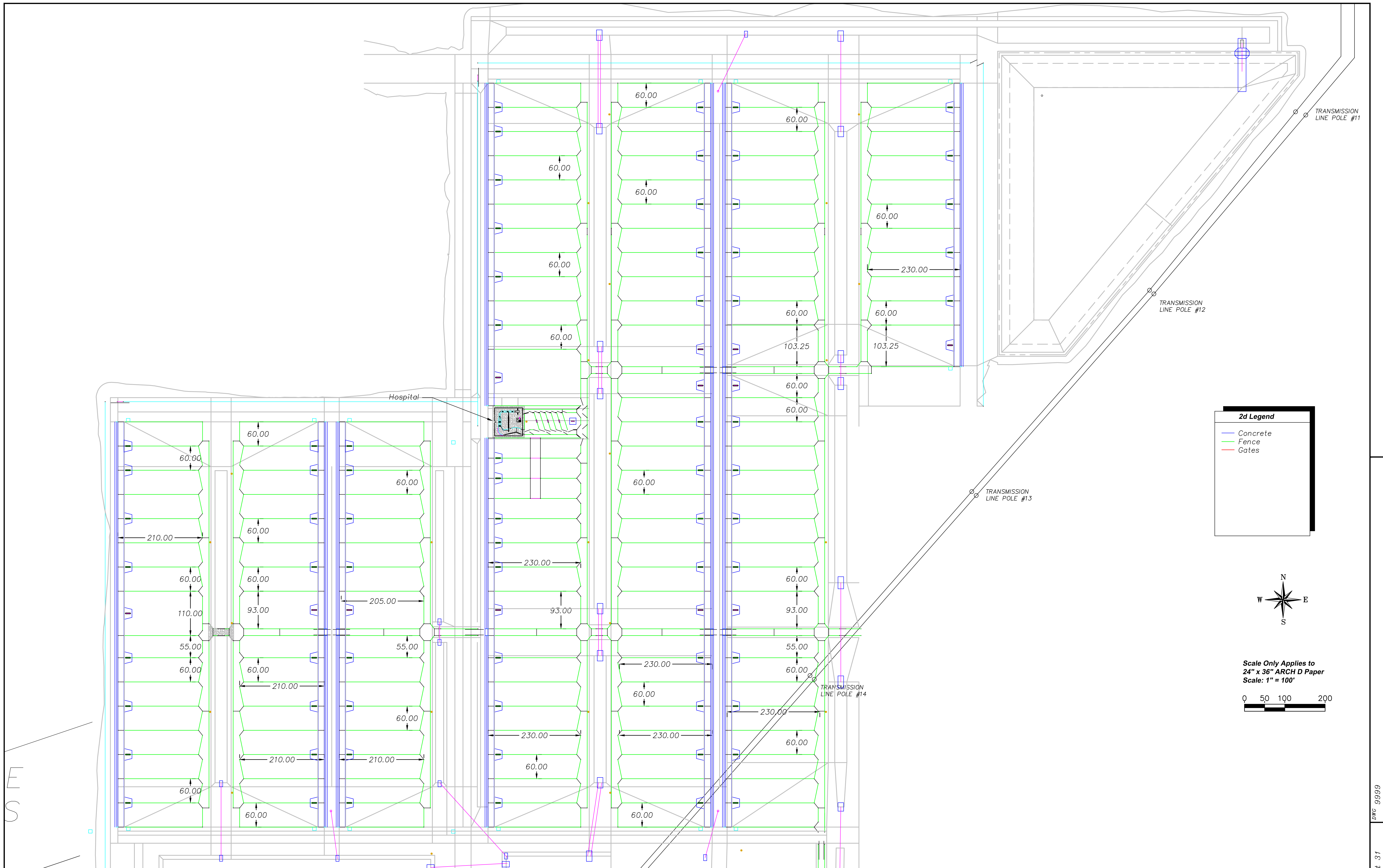
**Cross Section Legend**

- Existing Ground
- Design Grade
- Clay Liner

**Culvert 16 Notes:**

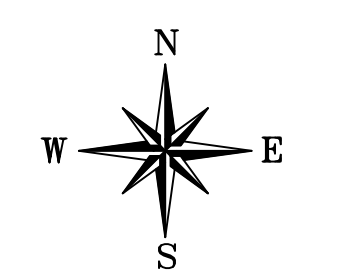
Size:	48" HDPE
Length:	116
Inlet:	2473.9
Outlet:	2473.6
Catchment Area:	3,631,950 sq ft
GPM Rain Event:	75,473
GPM Culvert:	52,138 Each

All Rainfall Events Calculated at 2" per hour.



**2d Legend**

- Concrete
- Fence
- Gates



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'

DRAWING CONTAINS INFORMATION BELONGING TO  
MJE, LLC  
AND MAY NOT BE REPRODUCED WITHOUT  
WRITTEN PERMISSION FROM MJE, LLC

PROJECT: *Wilroads Feedyard  
Dodge City, Ks*



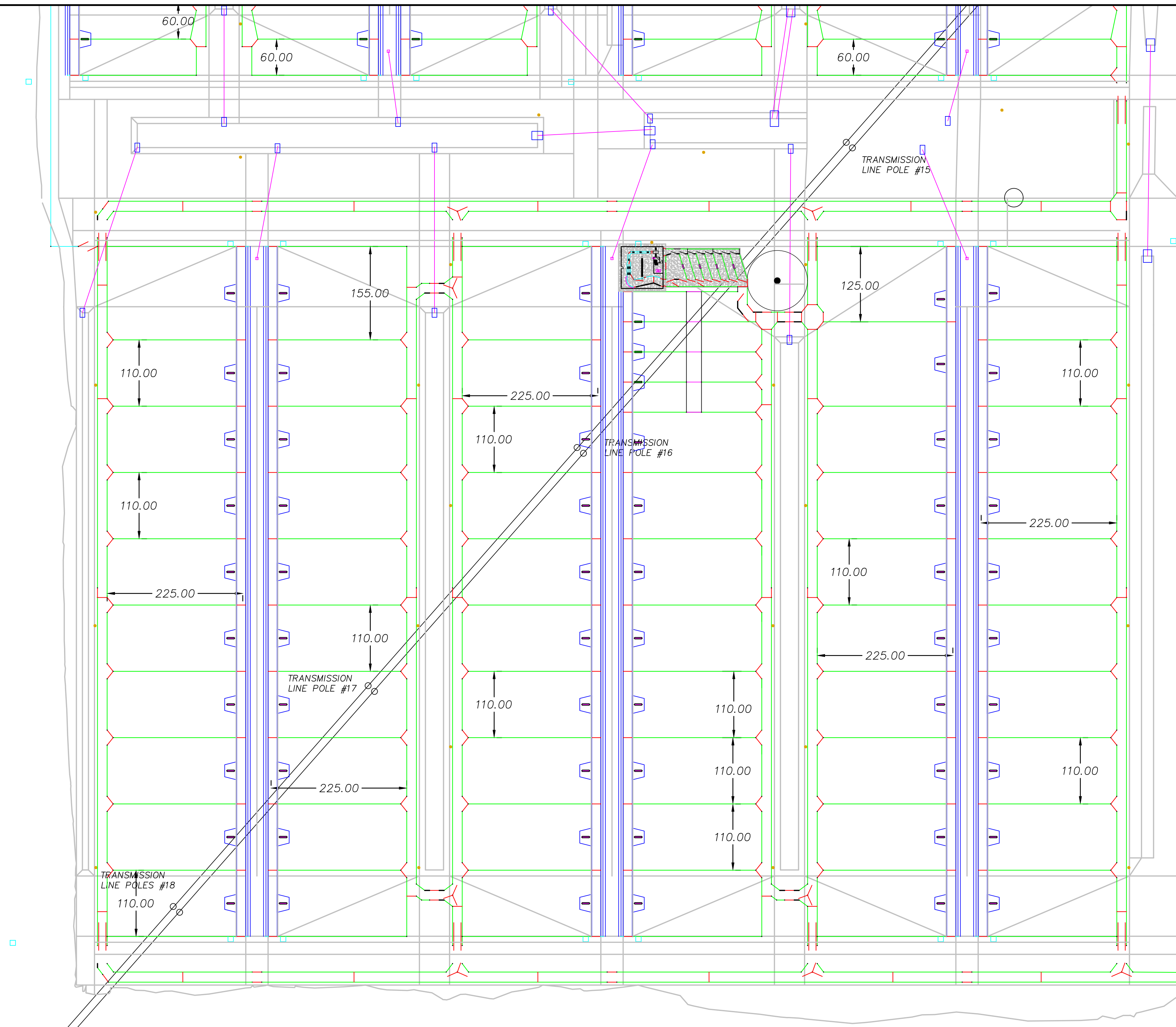
MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



SHEET DESCRIPTION: *Pen Layout  
North*

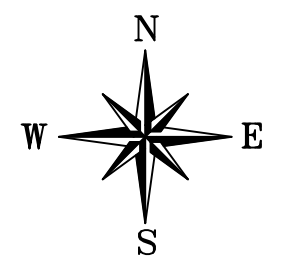
DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

DWG 9999  
Sheet 31

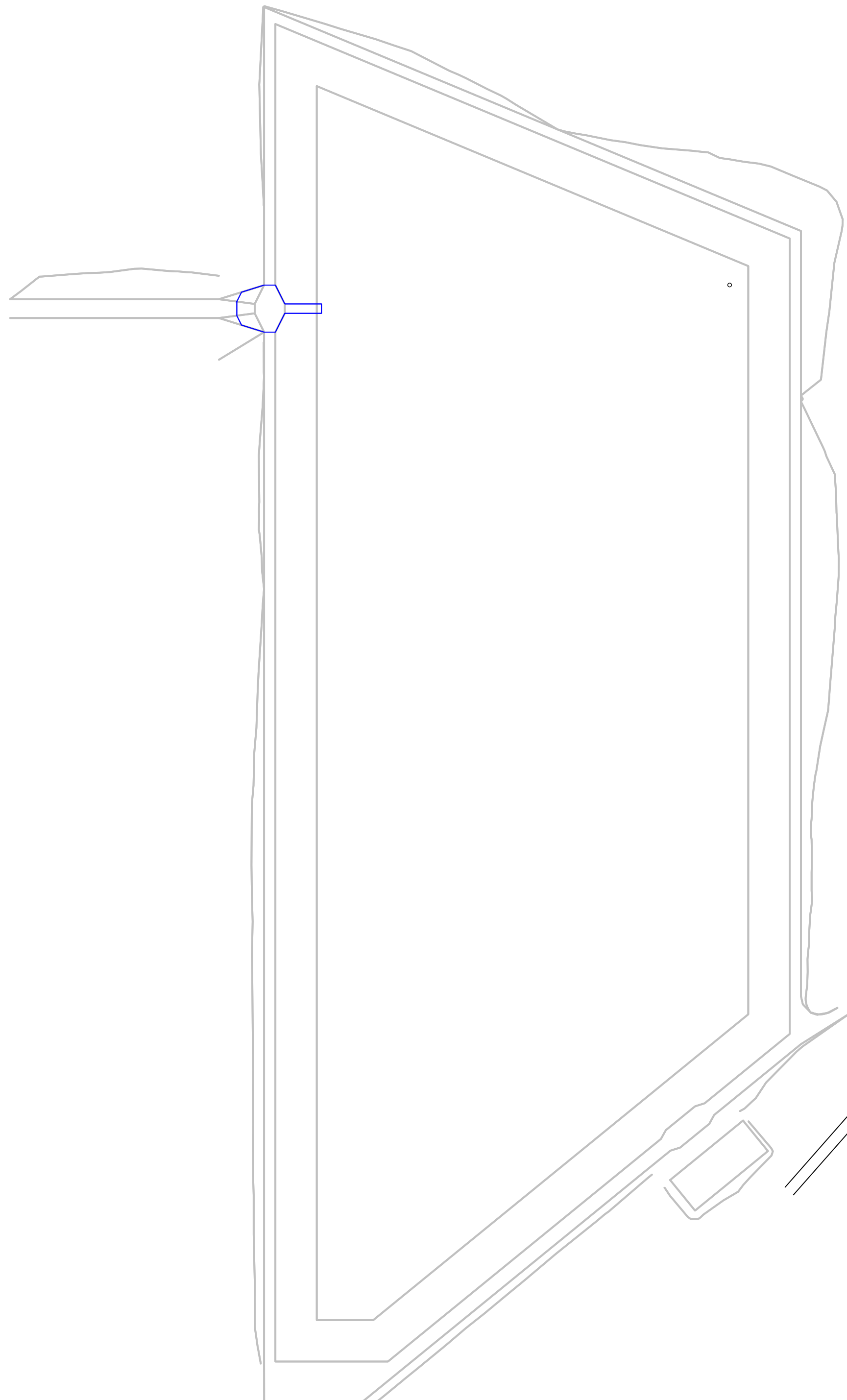
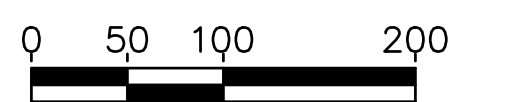


**2d Legend**

- Concrete
- Fence
- Gates



Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 100'



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PROJECT:

Wilroads Feedyard  
Dodge City, Ks



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867

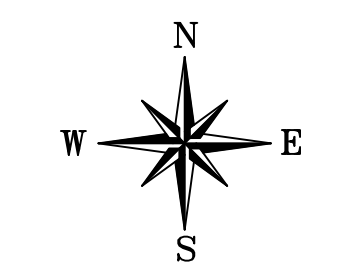
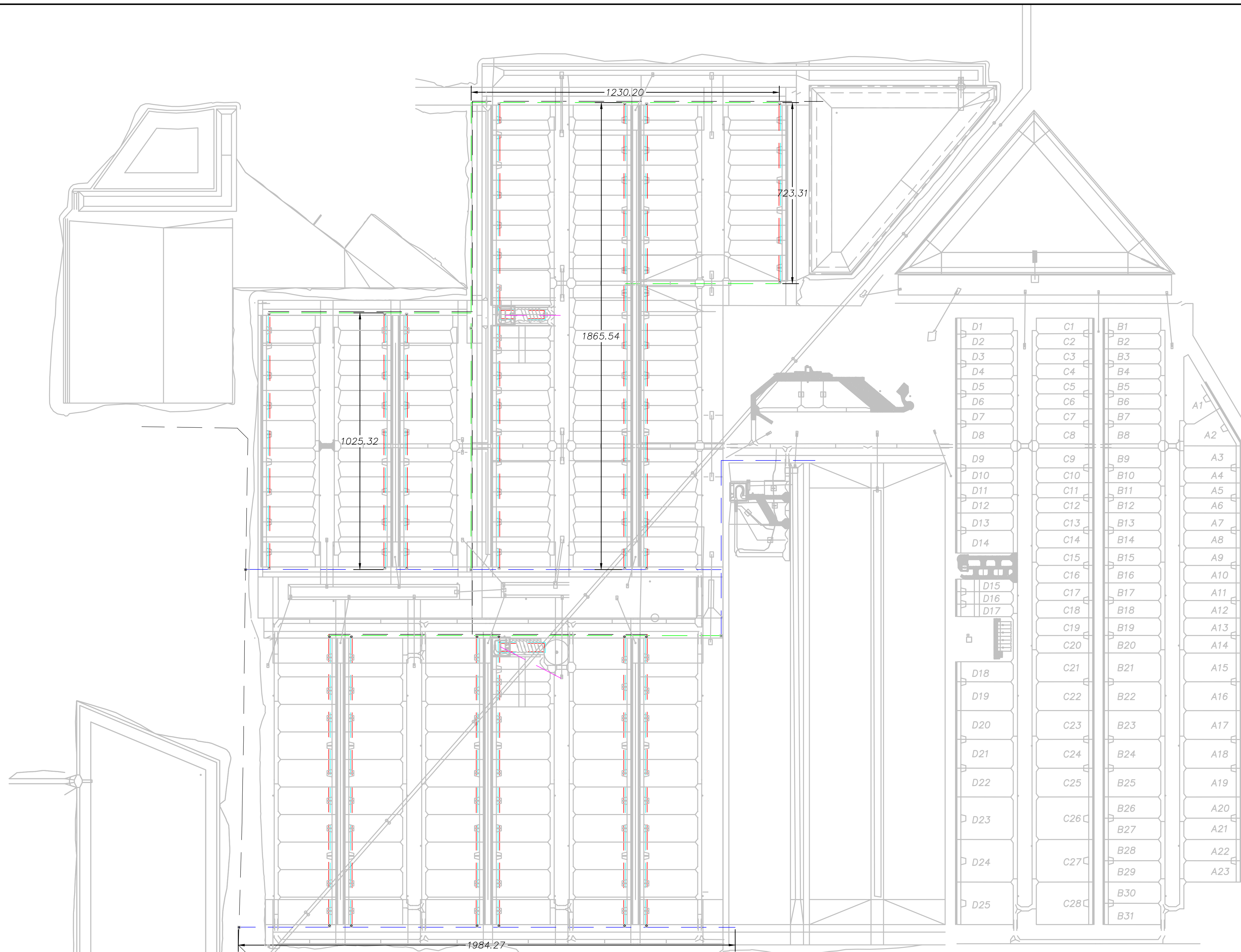


SHEET DESCRIPTION:

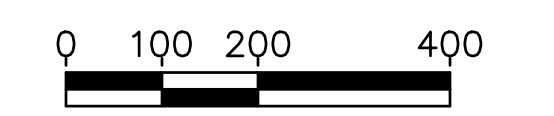
Pen Layout  
South

DRAWN BY: R. Ruhnke	DATE 02/14/2024
CHECKED BY: A. Jantz	DATE 02/14/2024

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Scale Only Applies to  
24" x 36" ARCH D Paper  
Scale: 1" = 200'



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PROJECT: *Wilroads Feedyard  
Dodge City, Ks*



MJE, LLC  
26503 11 Road  
Montezuma, KS 67867



SHEET DESCRIPTION: *Plumbing  
Layout*

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