

ADDENDUM NO. 02
TO REQUEST FOR BIDS
PERIMETER SERVICE ROAD REHABILITATION
JMAA PROJECT NO. 003-18
DATED MAY 8, 2019

This Addendum No. 2 ("Addendum") to the Request for Bids ("RFB") for the Perimeter Service Road Rehabilitation, Project Number 003-18, issued by the Jackson Municipal Airport Authority ("JMAA") as of this, the 7th day of June 2019.

1. Defined Terms. Capitalized terms used but not defined in the Addendum have the respective meanings given in the RFB.
2. Questions and Answers. The responses for questions have been provided as Attachment 2 of this Addendum No. 2.
3. Schedule of Values. The corrected Schedule of Values is Attachment 3 of this Addendum No. 2 and includes revised quantities and pay items.
4. Corrections to Specifications and Drawings and Additional Information. Please download updated Specifications and Drawings at <http://planroom.jaxblue.com> or <https://www.centralauctionhouse.com/> and reference JMAA Project No. 003-18.
5. Acknowledgement of Addendum. Per the General Requirements of the RFB, Bidders must acknowledge receipt of this and any other Addendum issued in support of this RFB utilizing the Acknowledgment of Receipt of Addendum form provided in this Addendum as Attachment 1. Submit completed Acknowledgement of Receipt of Addendum forms, for each Addendum issued, with the Bid.

Date: June 7, 2019

JACKSON MUNICIPAL AIRPORT AUTHORITY



Bonnie Spears
Procurement Specialist

Attachment 1

Acknowledgment of Receipt of Addendum

Addendum No. 2

Issue Date: June 7, 2019

REQUEST FOR BIDS
PERIMETER SERVICE ROAD
DATED MAY 8, 2019
JMAA PROJECT NO. 003-18

By signing this document, I _____, acknowledge the receipt of the above-mentioned addendum and that it shall be included with the Statement of Qualifications submitted for consideration for the above-mentioned Bid.

Name of Firm

Signature

Date

ATTACHMENT 2 – RESPONSES TO QUESTIONS

	Question	Response
1	Areas where we are to prepare the existing Roadbed will any undercut and replacement of soft soils be absorbed in this item?	Payment for areas of the existing roadbed which require undercut and backfill will be measured and paid for using Items P-152-4.3 and P-152-4.2
2	Are the type I Barricades and airport traffic control signs in pay items TS-129-5.2 and TS-129-5.3 what are to be used in pay item TS-129-5.1 “Implementation of Construction Safety & Phasing plan”?	Type I Barricades are to be paid for under TS-129-5.2 and the materials needed for the signs are to be paid for under TS-129-5.3. TS-129-5.1 is for the implementation of the safety plan and utilization of safety and traffic control devices will be for the placement and removal of all safety and traffic control devices (cones/barricades/route signs/other traffic devices to help with flow of construction traffic) and providing flagmen or gate monitors (includes security personnel and any other access point restrictions) as required by this specification.
3	If the contractor is responsible for all erosion control measures to be included in the SWPPP, the engineer needs to supply the contractor with a copy of the wetlands permit.	The permit is currently being processed by the Army Corp of Engineers and a copy will be provided by JMAA once it is issued.
4	Where are the wetlands located on the site?	The wetlands delineation was performed by Advanced Environmental Consultants. A copy of their wetlands delineation map is included as an attachment.

5	Pay Item T-905-5.1 shows for the contractor to obtain the topsoil from onsite stockpile. Where is this stockpile located?	The intent is to re-use topsoil stripped from the existing alignment or shoulders to place on new shoulders.
6	Will there be any access gates that require code or badge with code to access the site?	Yes.

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 JACKSON - MEDGAR WILEY EVERS INTERNATIONAL AIRPORT
 JAN PERIMETER SERVICE ROAD REHABILITATION
 JMAA PROJECT NO. 003-18
 SCHEDULE OF VALUES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (in words)	UNIT PRICE (in numbers)
BASE BID					
C-102-5.1	Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	LS	1		
C-105	Mobilization	LS	1		
D-701-5.1.2	24-inch Reinforced Concrete Pipe, Class III	LF	100		
D-701-5.1.3	30-inch Reinforced Concrete Pipe, Class III	LF	108		
D-701-5.1.4	36-inch Reinforced Concrete Pipe, Class III	LF	84		
D-701-5.1.5	42-inch Reinforced Concrete Pipe, Class III	LF	44		
D-701-5.1.6	54-inch Reinforced Concrete Pipe, Class III	LF	66		
D-701-5.1.7	60-inch Reinforced Concrete Pipe, Class III	LF	84		
D-701-5.1.8	66-inch Reinforced Concrete Pipe, Class III	LF	84		
D-701-5.2.1	22" x 13" Concrete Arch Pipe, Class III	LF	28		
D-701-5.2.2	44" x 27" Concrete Arch Pipe, Class III	LF	56		
D-701-5.2.3	73" x 45" Concrete Arch Pipe, Class III	LF	112		
D-701-5.3.1	Geotextile for Subsurface Drainage, Type III	SY	3,000		
D-701-5.3.2	Filter Material for Combination Storm Drawing and/or Underdrains, Type A, FM	CY	75		
D-701-5.4.2	24-inch Reinforced Concrete Pipe Flared End Section	EA	10		
D-701-5.4.3	30-inch Reinforced Concrete Pipe Flared End Section	EA	6		
D-701-5.4.4	36-inch Reinforced Concrete Pipe Flared End Section	EA	4		
D-701-5.4.5	22" x 13" Reinforced Concrete Pipe Flared End Section	EA	2		
D-701-5.5.2	24-inch Security Grate for Flared End Section	EA	5		
D-701-5.5.3	30-inch Security Grate for Flared End Section	EA	3		
D-701-5.5.4	36-inch Security Grate for Flared End Section	EA	2		
D-701-5.5.5	22" x 13" Security Grate for Flared End Section	EA	1		
D-701-5.6.2	54" Security Grate for Pipes with Headwalls	EA	3		
D-701-5.6.3	60" Security Grate for Pipes with Headwalls	EA	1		
D-701-5.6.4	66" Security Grate for Pipes with Headwalls	EA	3		
D-701-5.6.5	44" x 27" Security Grate for Pipes with Headwalls	EA	2		
D-701-5.6.6	73" x 45" Security Grate for Pipes with Headwalls	EA	4		
D-752-4.1	Removal of Pipe, 8" and Above	LF	600		
D-752-4.3	Structural Concrete	CY	134		
D-752-4.4	Reinforcing Steel	LBS	6,416		
D-752-4.5	Geotextile Stabilizations, Type V, Non-Woven	SY	1,000		
F-162-5.1	Chain-Link Fence	LF	2,680		
F-162-5.2	Fence Demolition	LF	2,350		
P-151-4.1	Clearing	AC	5		

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ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (in words)	UNIT PRICE (in numbers)
P-152-4.1	Unclassified Excavation	CY	3,750		
P-152-4.2	Embankment in place	CY	14,700		
P-152-4.3	Undercut Excavation (Roadway Repair)	CY	700		
P-152-4.4	Structure Excavation	CY	3,000		
P-152-4.5	Undercut Excavation	CY	6,800		
P-155-8.1	Lime-Treated Subgrade	SY	11,998		
P-155-8.2	Lime	Ton	400		
P-209-4.1	Crushed Aggregate	Ton	21,935		
T-901-5.1	Seeding	AC	8		
T-905-5.1	Topsoil (Obtained on Site or Removed from Stockpile)	CY	602		
T-905-5.2	Topsoil (Furnished from Off Site)	CY	2,775		
TS-101-5.1	Preparation of Existing Roadbed	SY	22,750		
TS-118-5.1	Loose Rip Rap (300#) w/geotextile Fabric	Ton	120		
TS-129-5.1	Implementation of Construction Safety and Phasing Plan	LS	1		
TS-129-5.2	Type I Barricades	EA	28		
TS-129-5.3	Airport Traffic Control Sign	EA	2		

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ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (in words)	UNIT PRICE (in numbers)
ADDITIVE ALTERNATE 1					
D-701-5.1.1	18-inch Reinforced Concrete Pipe, Class III	LF	44		
D-701-5.1.3	30-inch Reinforced Concrete Pipe, Class III	LF	48		
D-701-5.1.5	42-inch Reinforced Concrete Pipe, Class III	LF	36		
D-701-5.4.1	18-inch Reinforced Concrete Pipe Flared End Section	EA	2		
D-701-5.4.3	30-inch Reinforced Concrete Pipe Flared End Section	EA	2		
D-701-5.5.1	18-inch Security Grate for Flared End Section	EA	1		
D-701-5.5.3	30-inch Security Grate for Flared End Section	EA	1		
D-701-5.6.1	42" Security Grate for pipes with Headwalls	EA	1		
P-151-4.2	Clearing and Grubbing	AC	5		
P-152-4.1	Unclassified Excavation	CY	1,930		
P-152-4.2	Embankment in place	CY	830		
P-152-4.5	Undercut Excavation	CY	400		
P-155-8.1	Lime-Treated Subgrade	SY	8,322		
P-155-8.2	Lime	Ton	300		
P-209-4.1	Crushed Aggregate	Ton	4,525		
T-901-5.1	Seeding	AC	3		
ADDITIVE ALTERNATE 2					
P-209-4.1	Crushed Aggregate	Ton	850		
TS-101-5.1	Preparation of Existing Roadbed	SY	6,880		



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DRAWINGS & SPECIFICATIONS

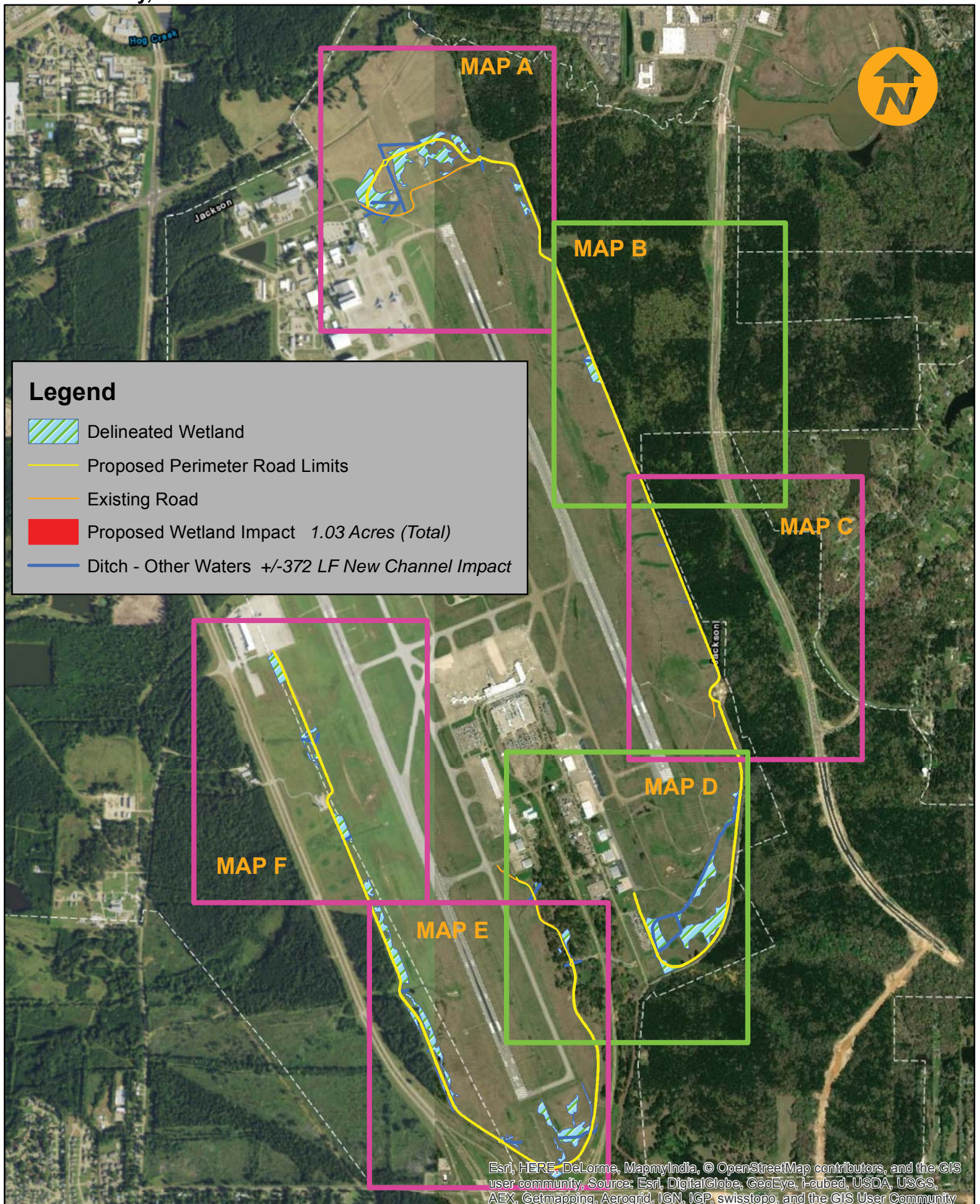
REVISED AS OF JUNE 7, 2019

JMAA PROJECT NO. 003-18

PERIMETER SERVICE ROAD

REHABILITATION

- Wetlands Delineation Maps
- Drawings C2.02, .05, .07, .11, .15, .16, .18, .22 – Revised end treatment of pipes
- Drawings C6.02, .05, .07, .11, .15, .16, .18, .22 – Revised end treatment of pipes
- Drawing C7.04 – Revised security grate detail to include detail for Flared End Section and Headwall end treatments
- Drawings C8.09, .10 – Added Flared End Section details
- Drawings G0.02 – Revised sheet index and table of quantities
- Pages D707-1 – 701-2 – Revised specification to include pay items for Flared End Sections and Security Grates



MAP A








STA 358 +08
84 LF - 60" RCP Required
With 2 Headwalls
100 LF Impact

STA 342+64
Remove Existing 66 LF of RCP
Three 36 LF 54" RCP Required
With 2 Headwalls
No New Channel Impact

EOP STA 365+29

STA 364+37
28 LF 22" x 13" RCAP Required
Included With Wetland Impacts

Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact 0.417 Acres (Map A)
-  Ditch - Other Waters

MAP B



Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact *None (Map B)*
-  Ditch - Other Waters

STA 307 +30
Remove 21 LF of CPP
28 LF - 24" RCP Required
With 2 Headwalls
14 LF Impact Required

MAP C








STA 285 +27
Remove 17 LF of CPP
24 LF- 24" RCP Required
With 2 Headwalls
No Impact Required

STA 279 +19
Remove 20 LF of CPP
28 LF- 24" RCP Required
With 2 Headwalls
No Impact Required

STA 270 +47
Remove 17 LF of CPP
24 LF- 24" RCP Required
With 2 Headwalls
0.0013 Ac. Wetland Impact Required

Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact 0.0013 Acres (Map C)
-  Ditch - Other Waters

MAP D



STA 240+55
36 LF- 42" RCP Required
With 2 Headwalls
50 LF Impact Required

STA 146+05






STA 141+82
Remove 36 LF of CMP
44 LF- 42" RCP Required
With 2 Headwalls
Rip-Rap Required (300#)
54 LF Impact Required

STA 200+00

STA 209 +43
Modified Grate & Inlet Required
20 LF- 30" RCP Required
20 LF Impact Required

STA 130+04
Remove 81 LF of RCP
Three 28 LF 66" RCP Required
With 2 Headwalls
Rip-Rap Required (300#)
No New Channel Impacts

Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact 0.512 Acres (Map D)
-  Ditch - Other Waters

MAP E



STA 62+44
 Remove 75 LF of RCP
 DBL 28 LF- 73" x 45" RCAP Required
 With 2 Headwalls
 No New Channel Impact

STA 130+04
 Remove 81 LF of RCP
 Three 28 LF 66" RCP Required
 With 2 Headwalls
 Rip-Rap Required (300#)
 No New Channel Impacts






STA 71+82
 Remove 37 LF of CMP
 36 LF- 36" RCP Required
 With 2 Headwalls
 Rip-Rap Required (300#)
 25 LF Impact Required

STA 105+17
 Remove 36 LF of CMP
 48 LF- 36" RCP Required
 With 2 Headwalls
 Rip-Rap Required (300#)
 35 LF Impact Required
 0.02 Ac Wetland Impact

STA 88+84
 Remove 24 LF of CMP
 DBL 36 LF- 73" x 45" RCAP Required
 With 2 Headwalls
 Rip-Rap Required (300#)
 40 LF Impact Required

STA 97+74
 Remove 28 LF of CMP
 32 LF- 30" RCP Required
 With 2 Headwalls
 Rip-Rap Required (300#)
 0.017 Ac Wetland Impact

Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact 0.085 Acres (Map E)
-  Ditch - Other Waters

MAP F



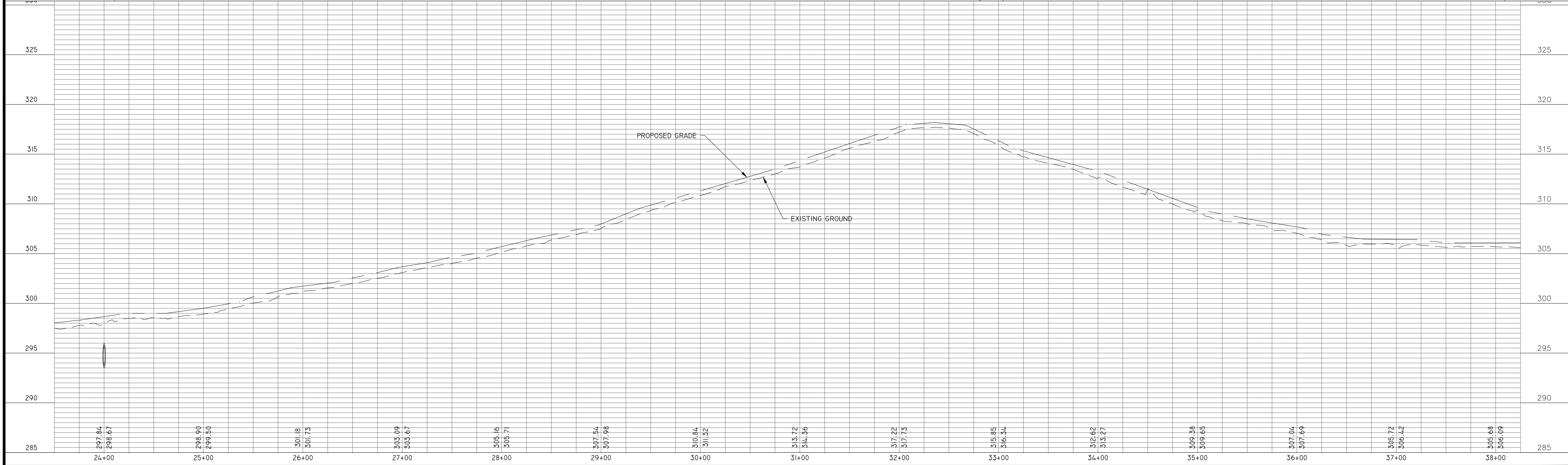
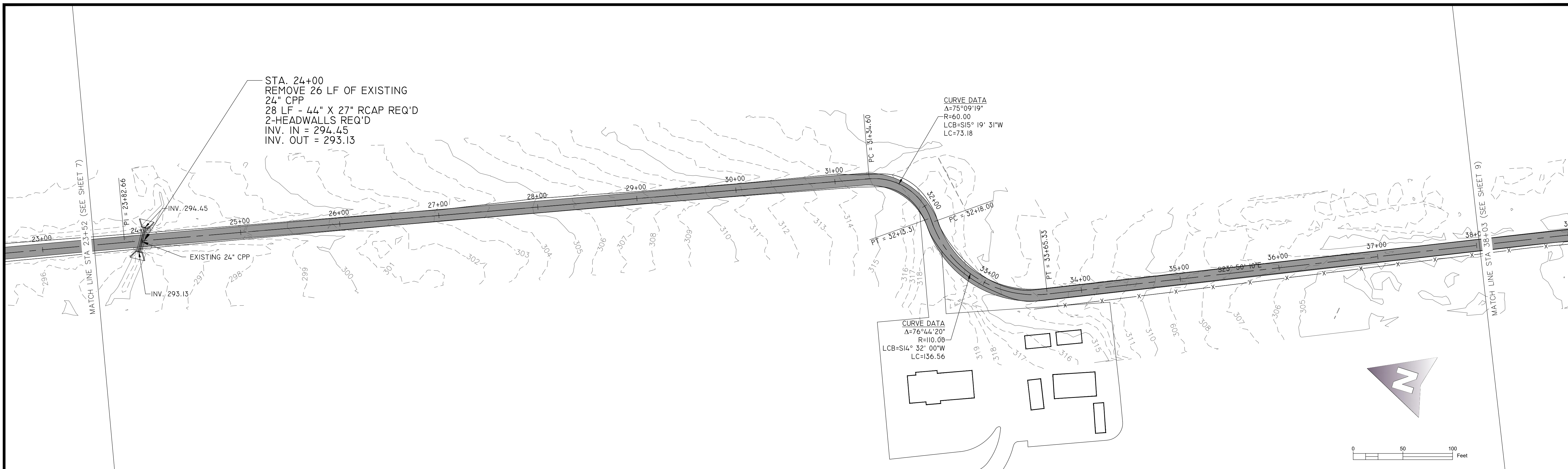
BOP STA 10+00

STA 24+00
Remove 26 LF of CPP
28 LF- 42" x 27" RCAP Required
With 2 Headwalls
14 LF Impact Required

STA 39+38
Remove 20 LF of CPP
28 LF- 44" x 27" RCAP Required
With 2 Headwalls
20 LF Impact Required

Legend

-  Delineated Wetland
-  Proposed Perimeter Road Limits
-  Existing Road
-  Proposed Wetland Impact 0.015 Acres (Map F)
-  Ditch - Other Waters



NOTICE TO DRAWING HOLDER
 NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

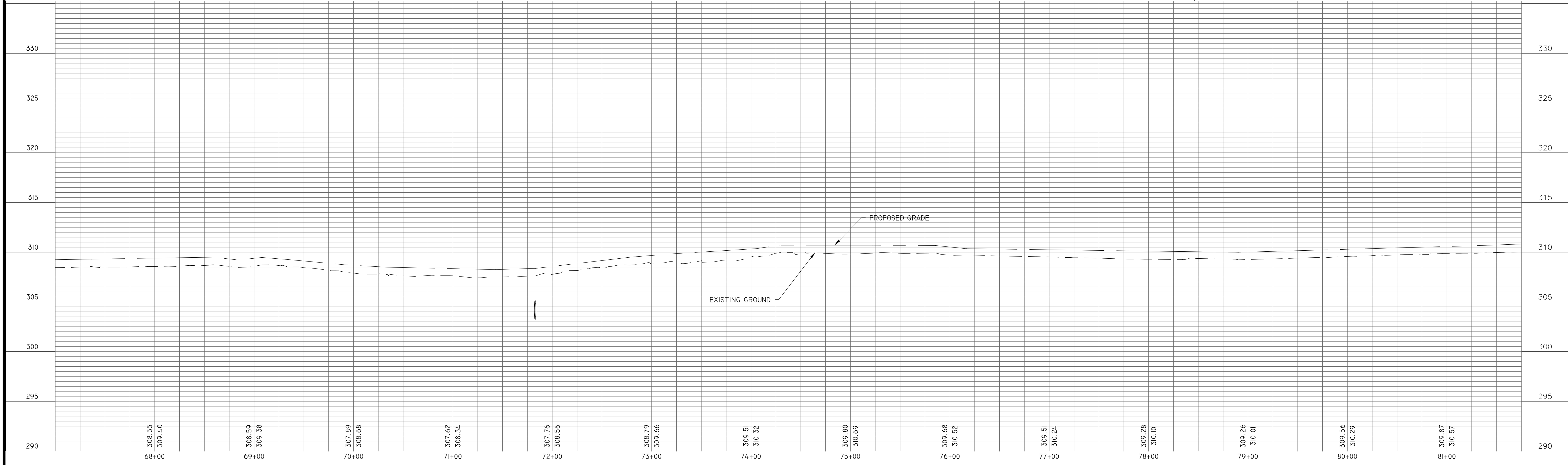
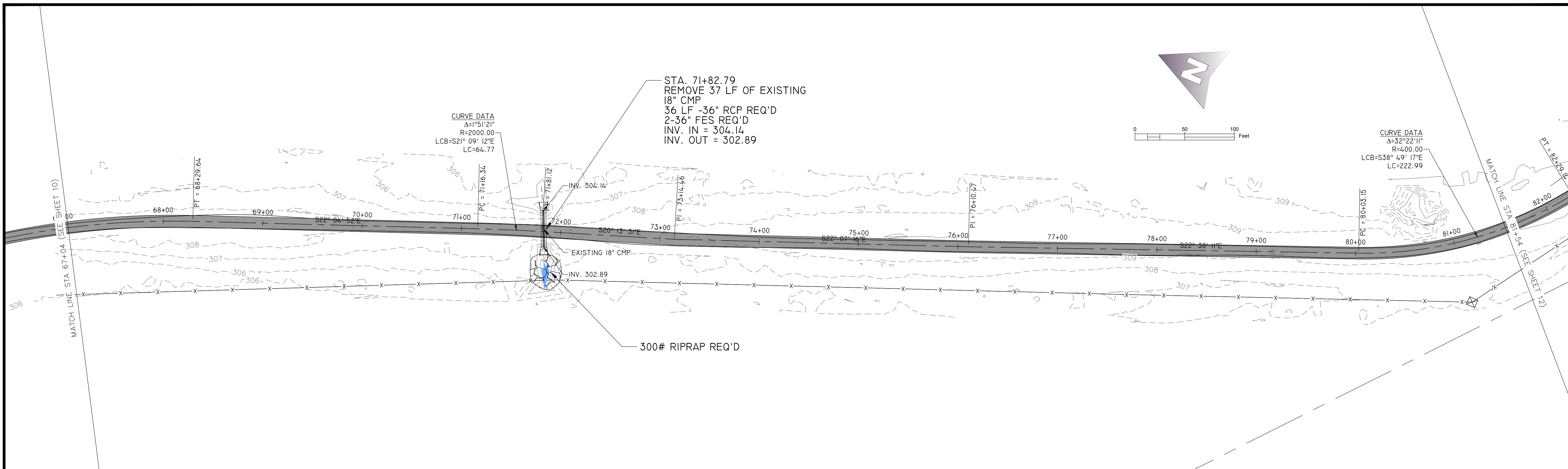
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FILENAME:	WEST EROSION.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


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 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


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Solutions you can build upon

PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 38+00 TO STA. 52+50	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.02



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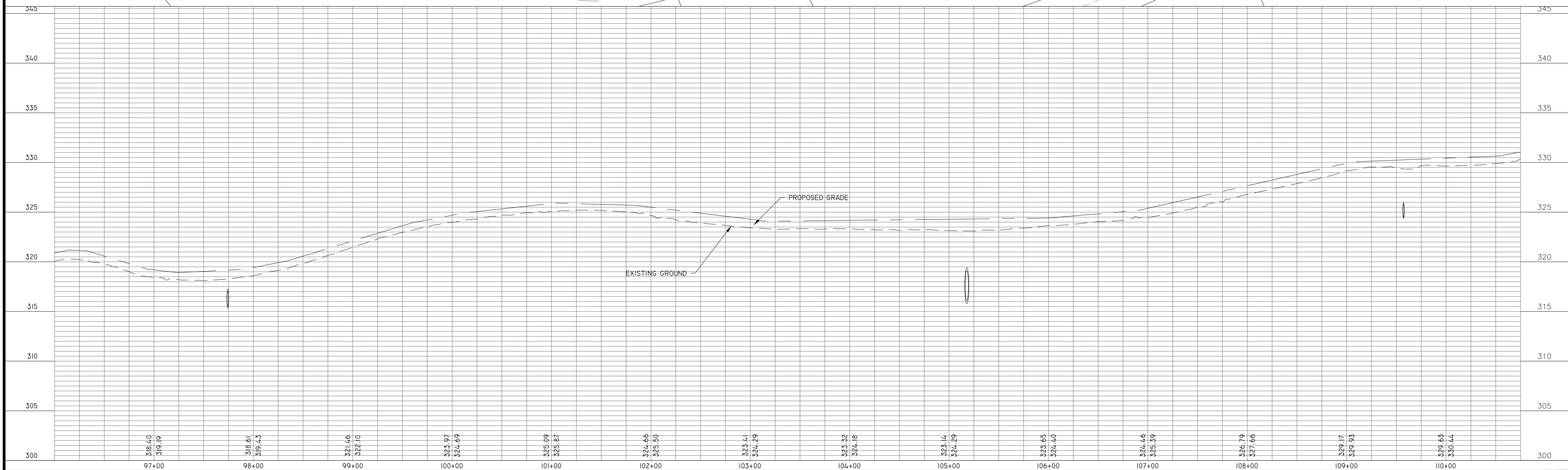
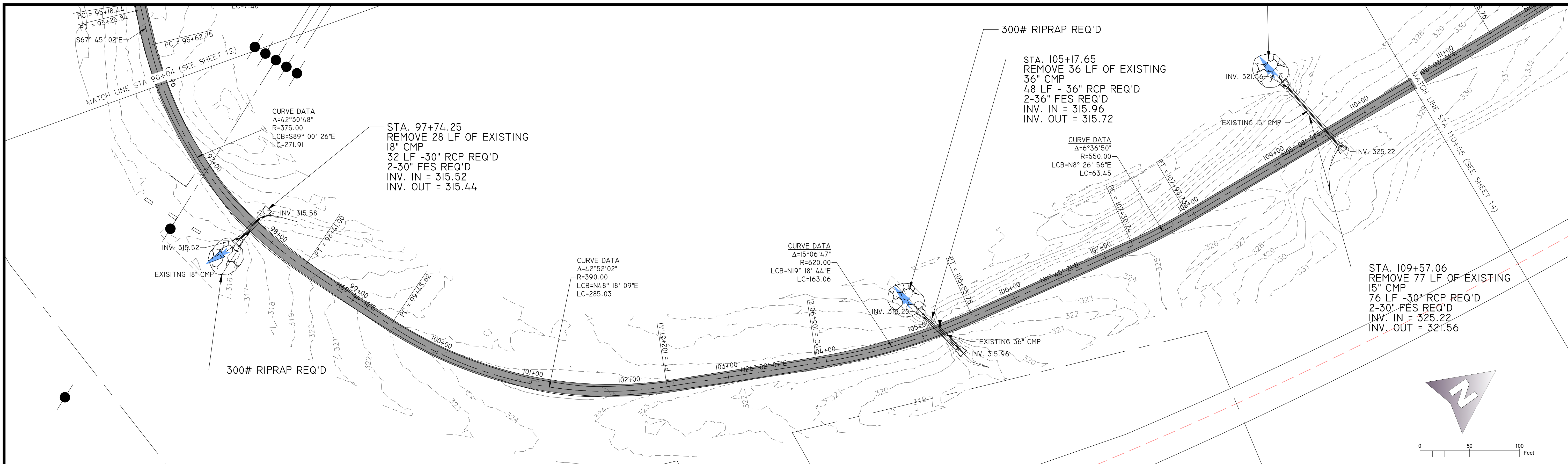
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QA/QC:	DATE:


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 PERIMETER ROAD SERVICE REHABILITATION
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PRELIMINARY EROSION CONTROL PLAN
 WEST PERIMETER ROAD
 STA. 67+00 TO STA. 81+50
 WORKING NUMBER: DRAWING NUMBER:
 C 2.05



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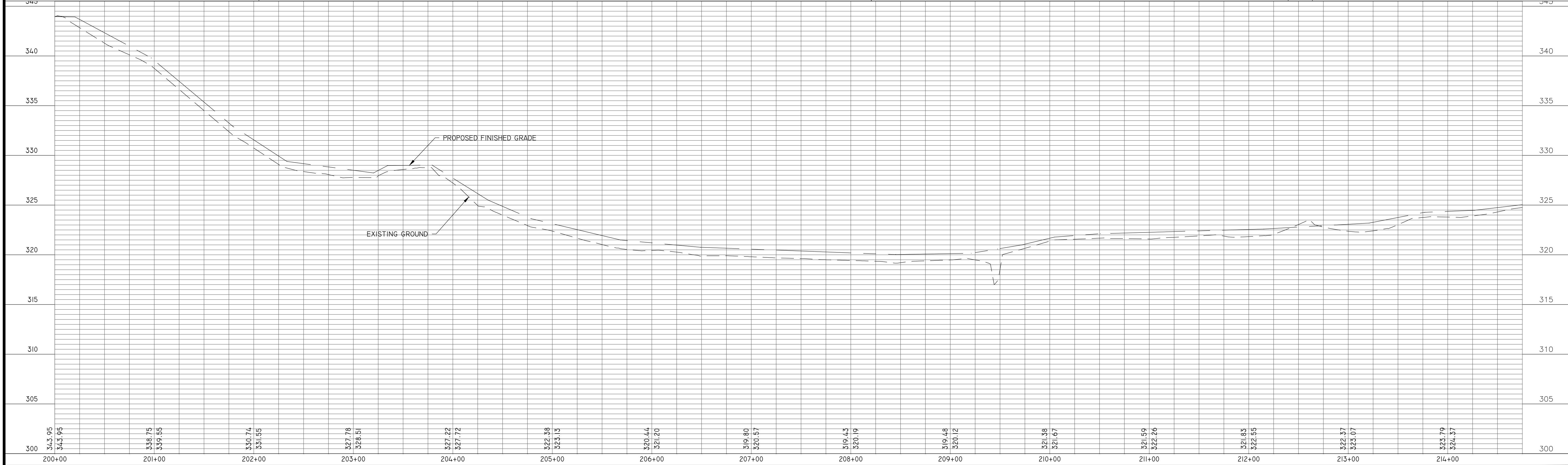
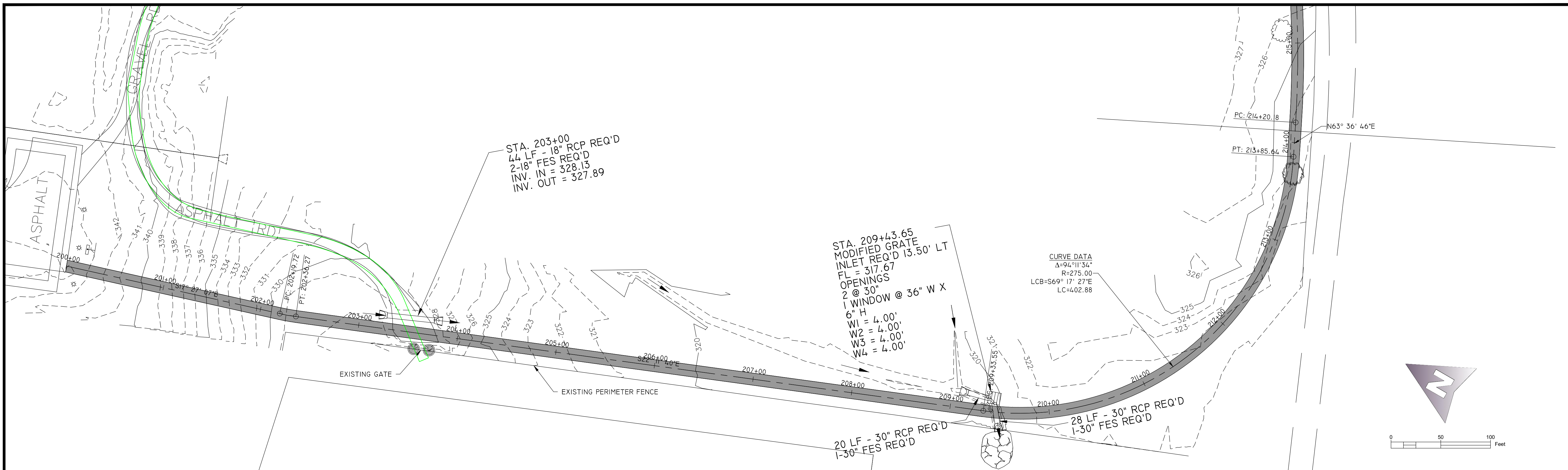
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DATE:	
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DATE:	


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PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 96+00 TO STA. 110+50	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.07



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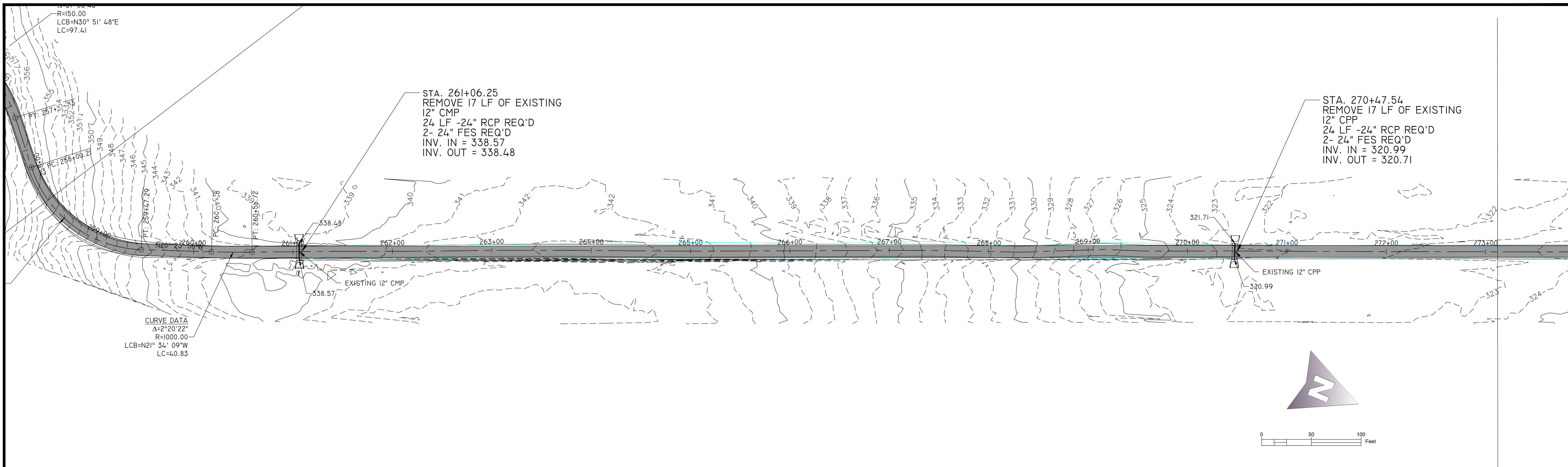
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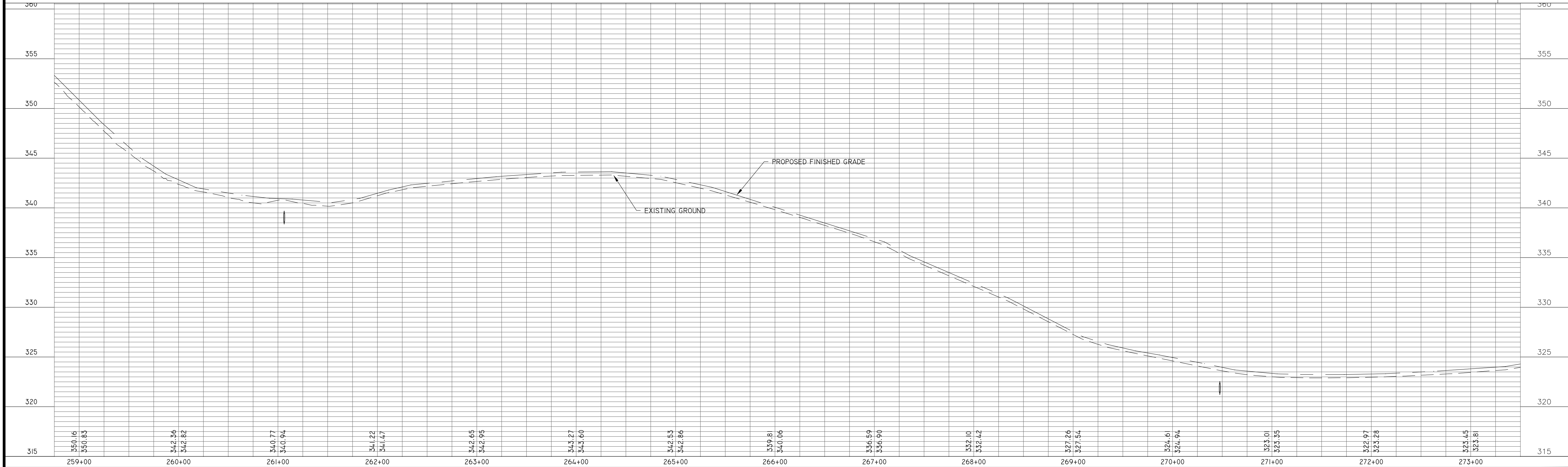
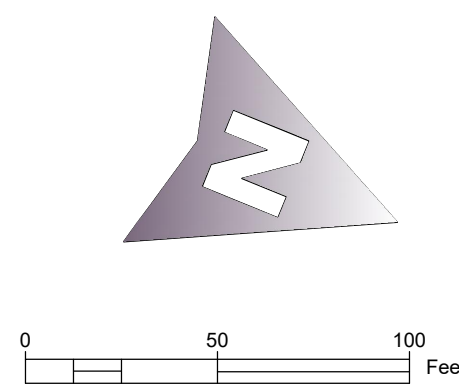

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PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA. 200+00 TO STA. 214+50	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.11



CURVE DATA
 $\Delta=2^{\circ}20'22''$
 $R=1000.00$
 $LCB=N21^{\circ}34'09''W$
 $LC=40.83$



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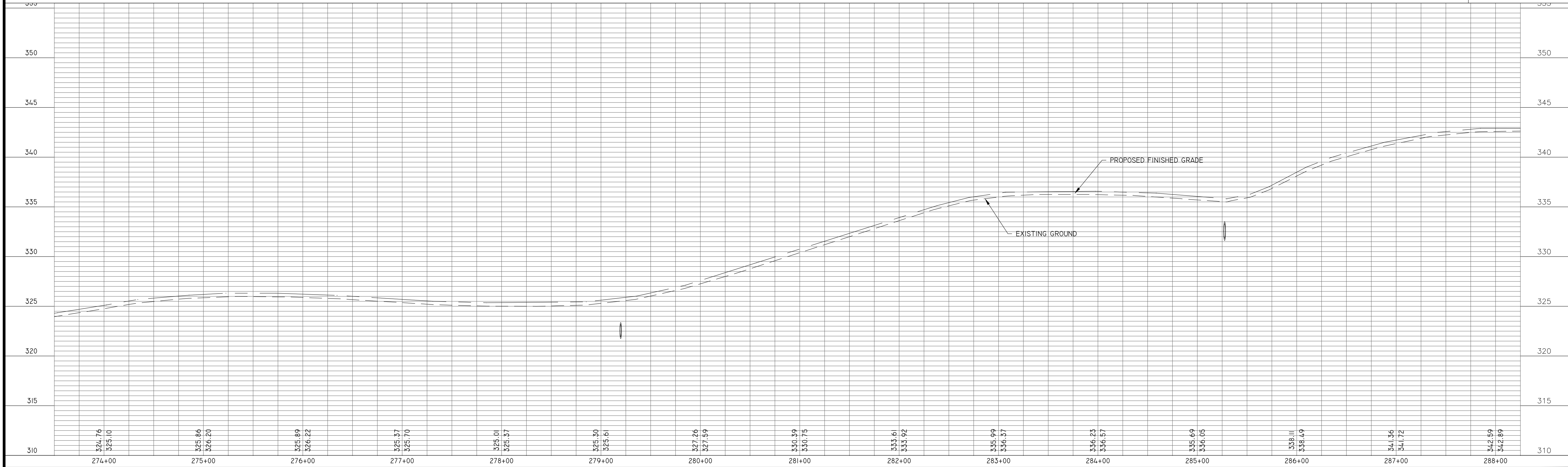
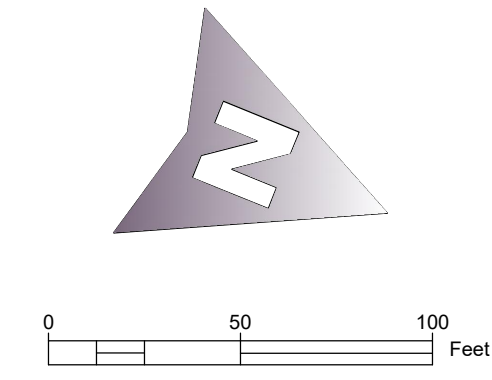
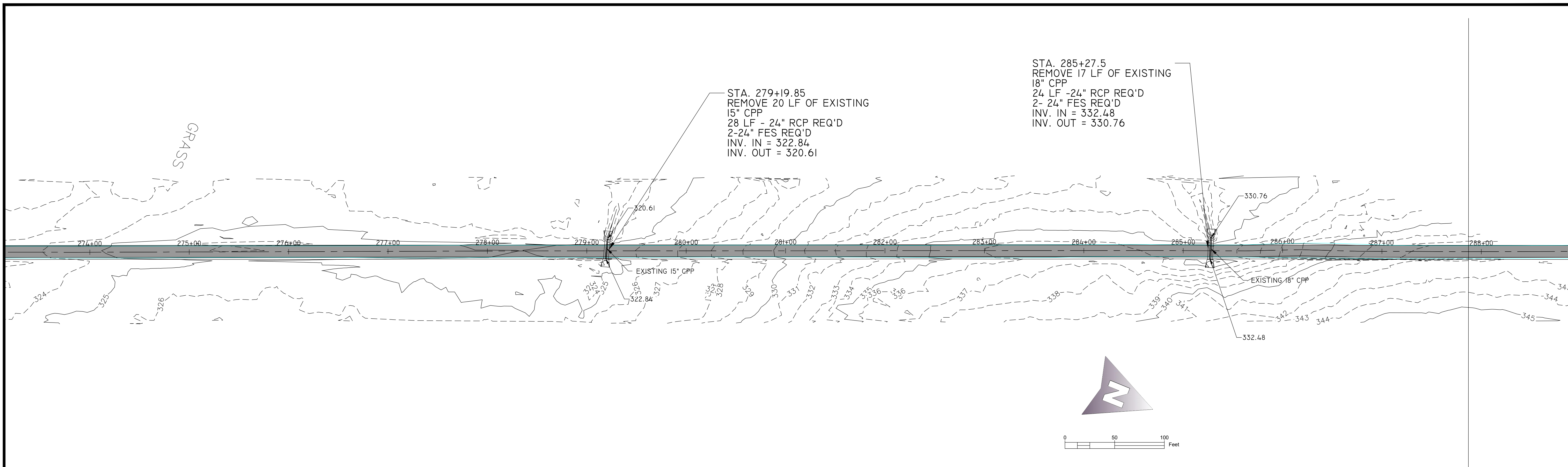
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PRELIMINARY EROSION CONTROL PLAN	
EAST PERIMETER ROAD STA. 258+75 TO STA. 273+50	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.15



NOTICE TO DRAWING HOLDER
 NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

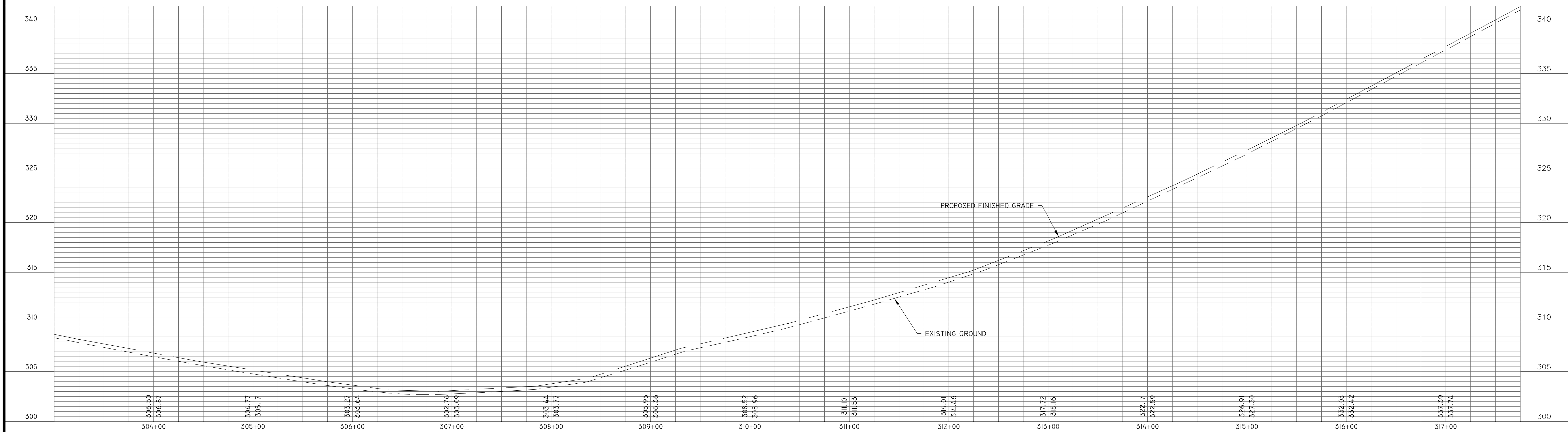
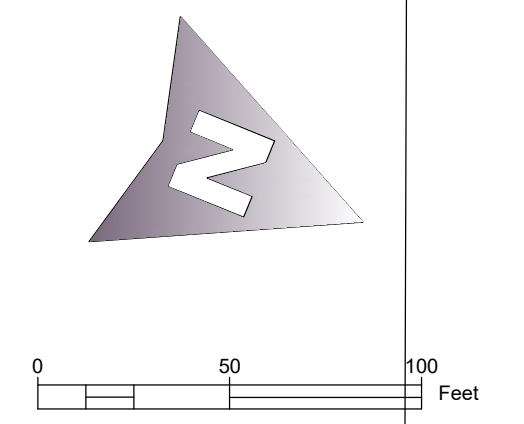
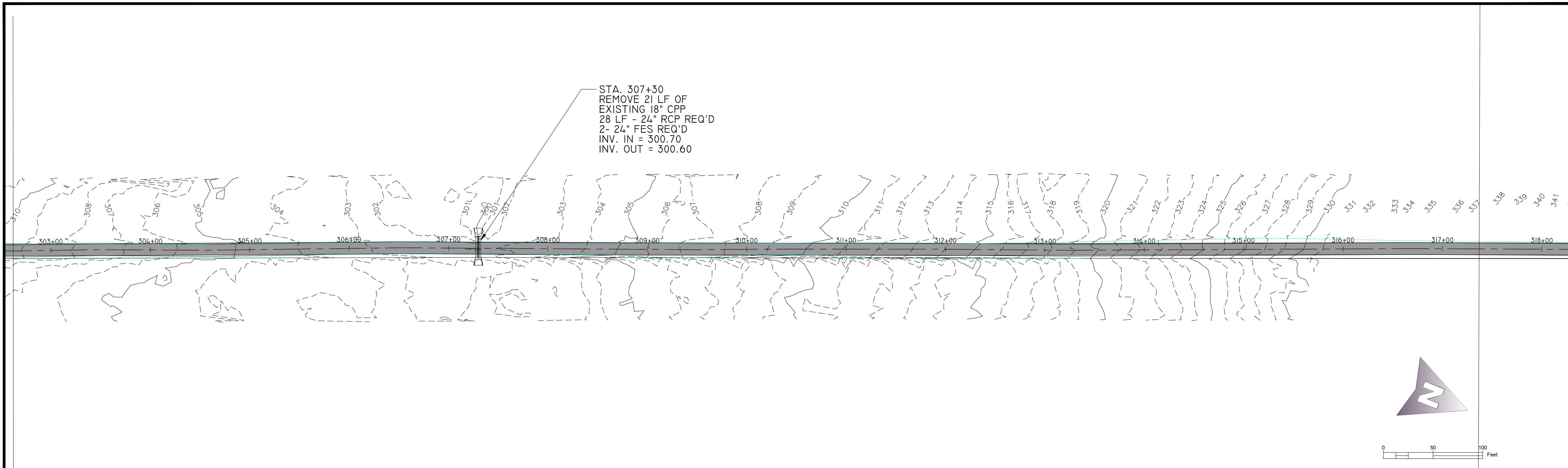
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	EAST EROSION.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

PRELIMINARY EROSION CONTROL PLAN	
EAST PERIMETER ROAD	
STA. 273+50 TO STA. 288+25	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.16



NOTICE TO DRAWING HOLDER
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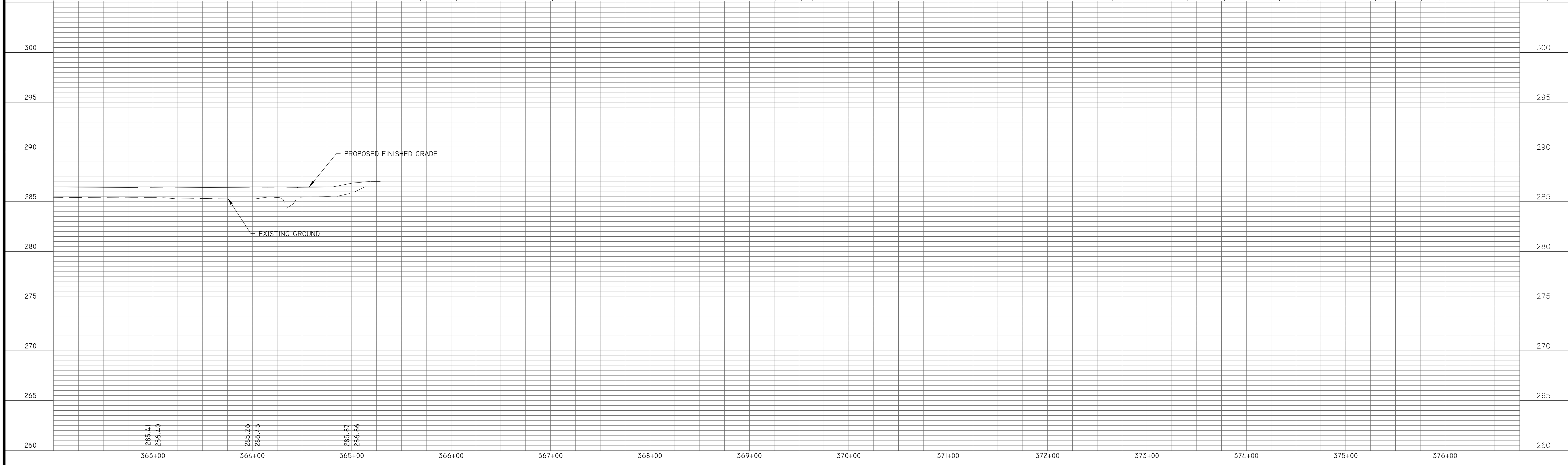
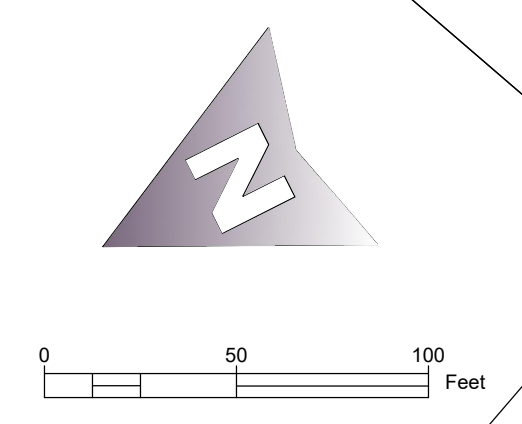
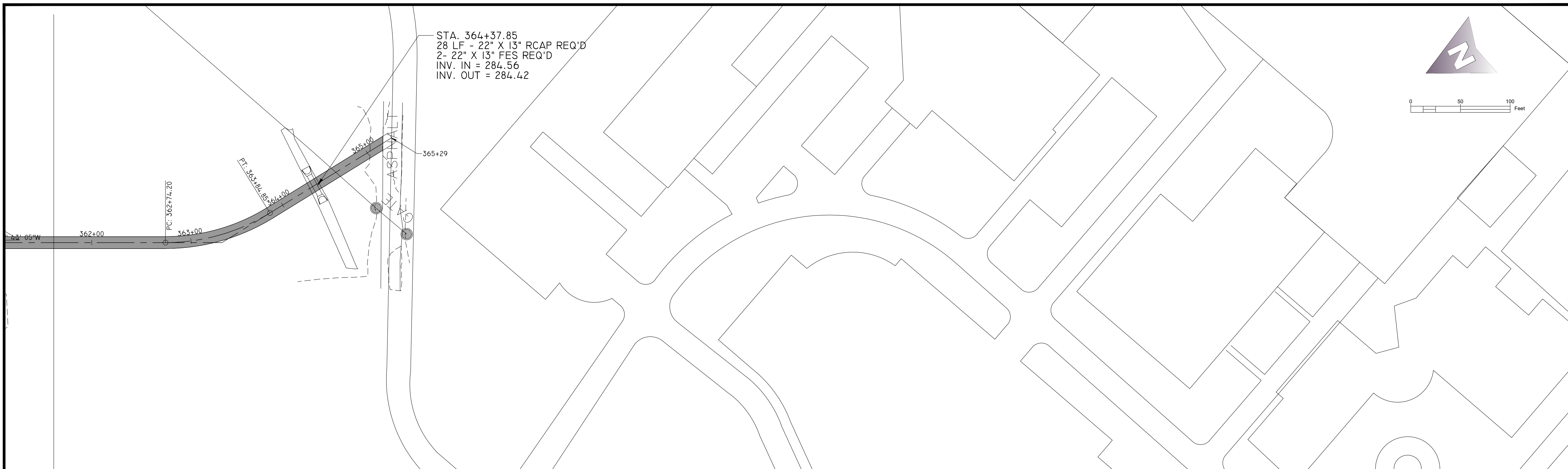
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	EAST EROSION.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA. 303+00 TO STA. 317+75	
WORKING NUMBER:	DRAWING NUMBER:
	C 2.18



NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

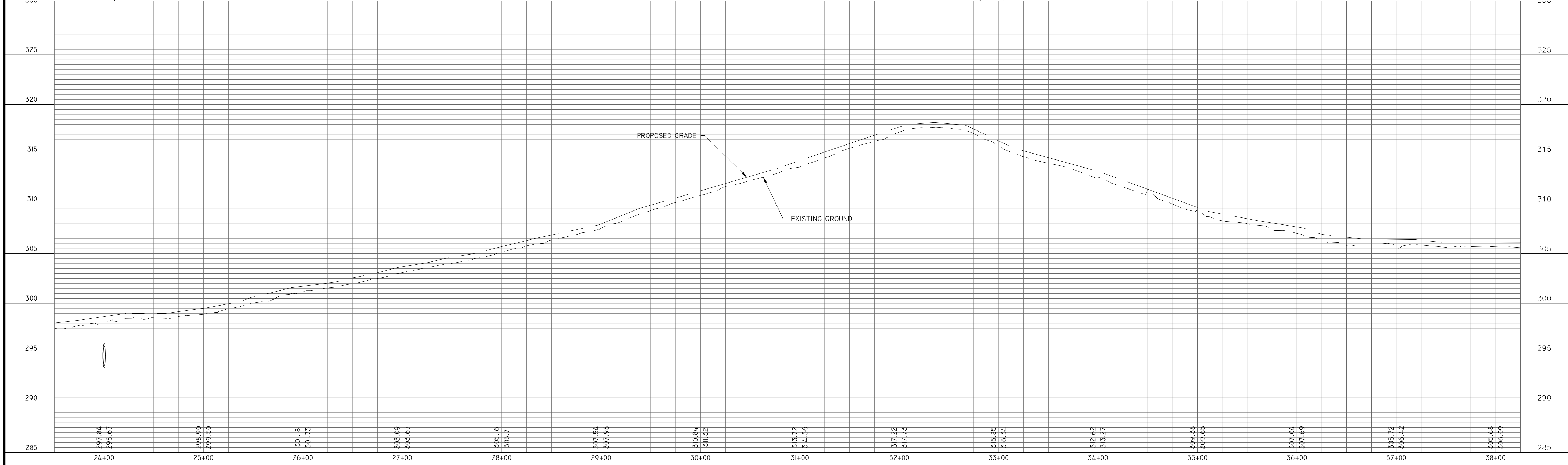
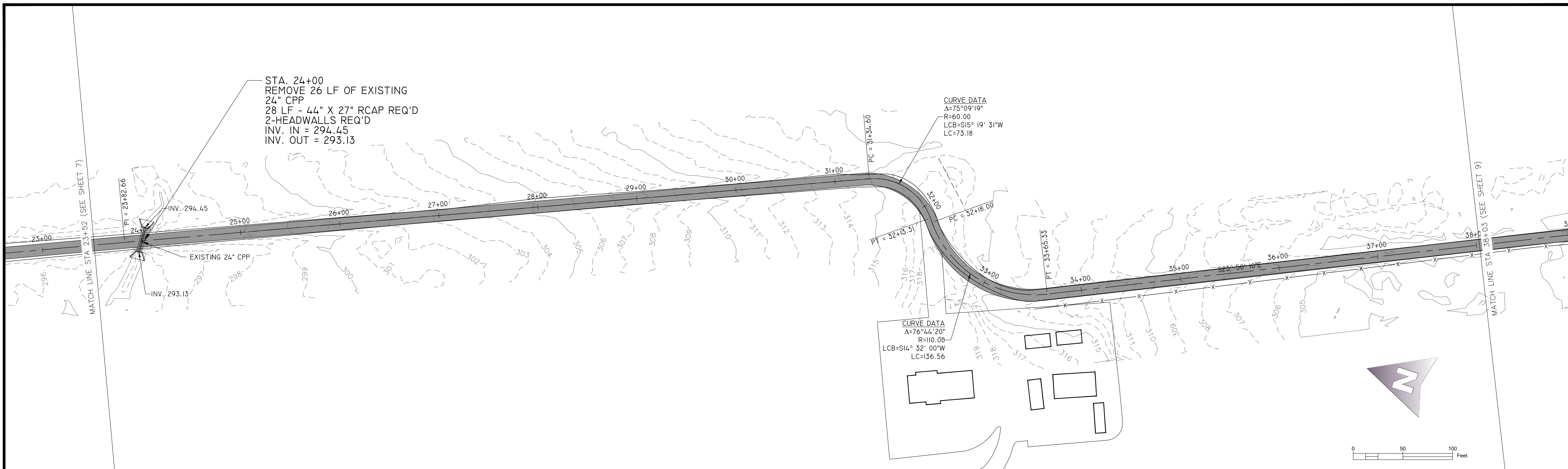
DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	EAST EROSION.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

PRELIMINARY EROSION CONTROL PLAN
 EAST PERIMETER ROAD
 STA. 362+00 TO STA. 365+28.70

WORKING NUMBER:	DRAWING NUMBER:
	C 2.22



NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

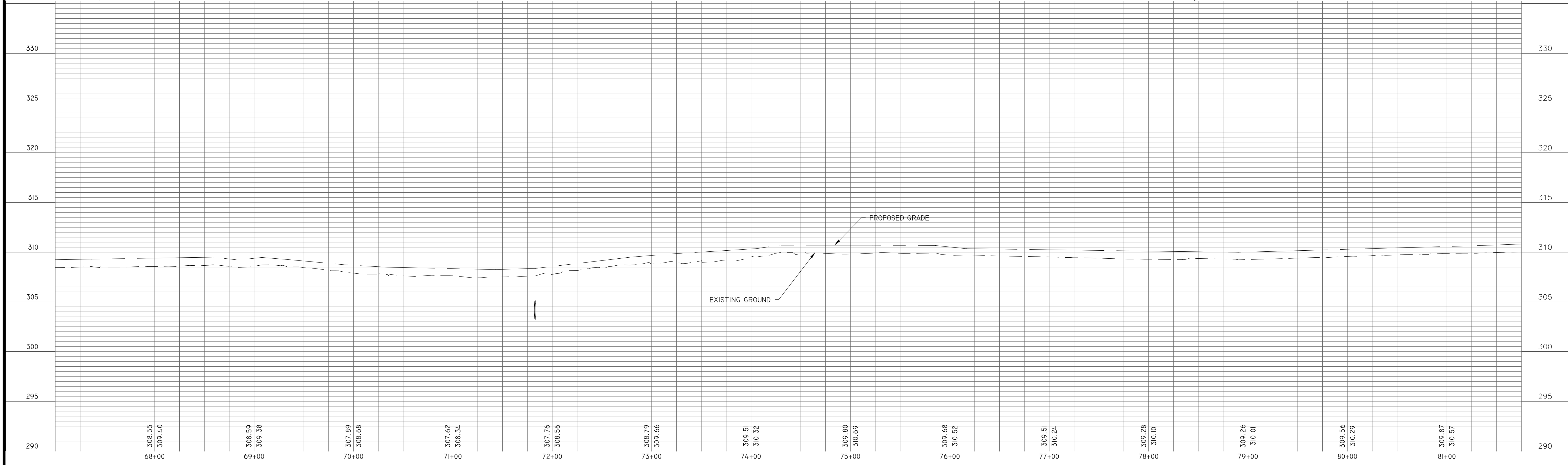
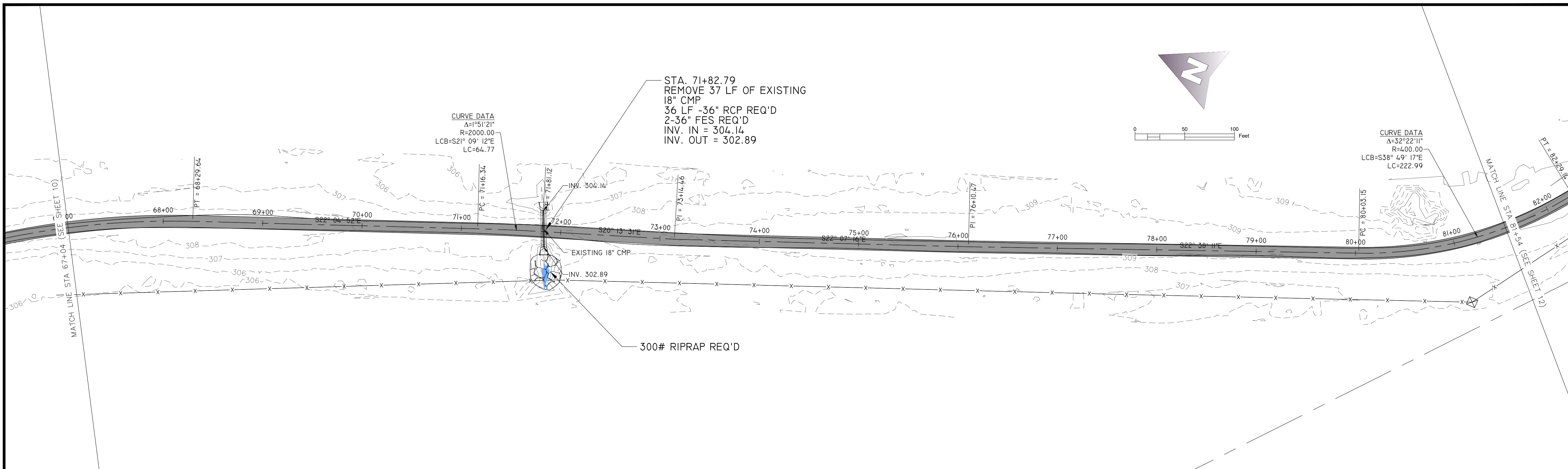
DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C501-510 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE
WEST PERIMETER ROAD
STA. 38+00 TO STA. 52+50

WORKING NUMBER:	DRAWING NUMBER:
	C 6.02



NOTICE TO DRAWING HOLDER
 NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

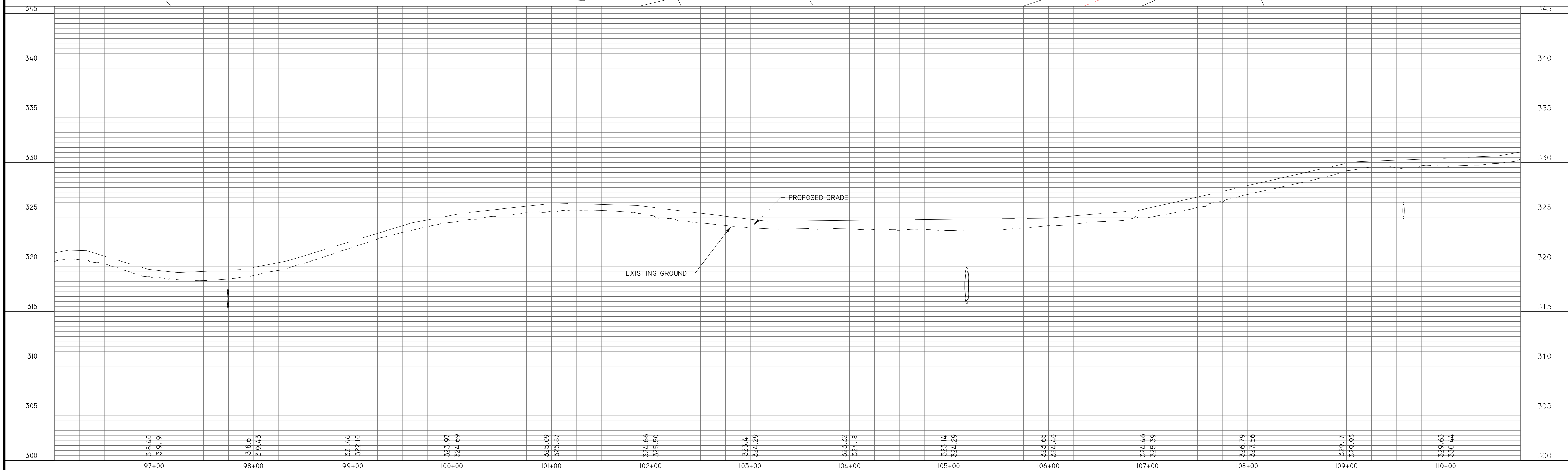
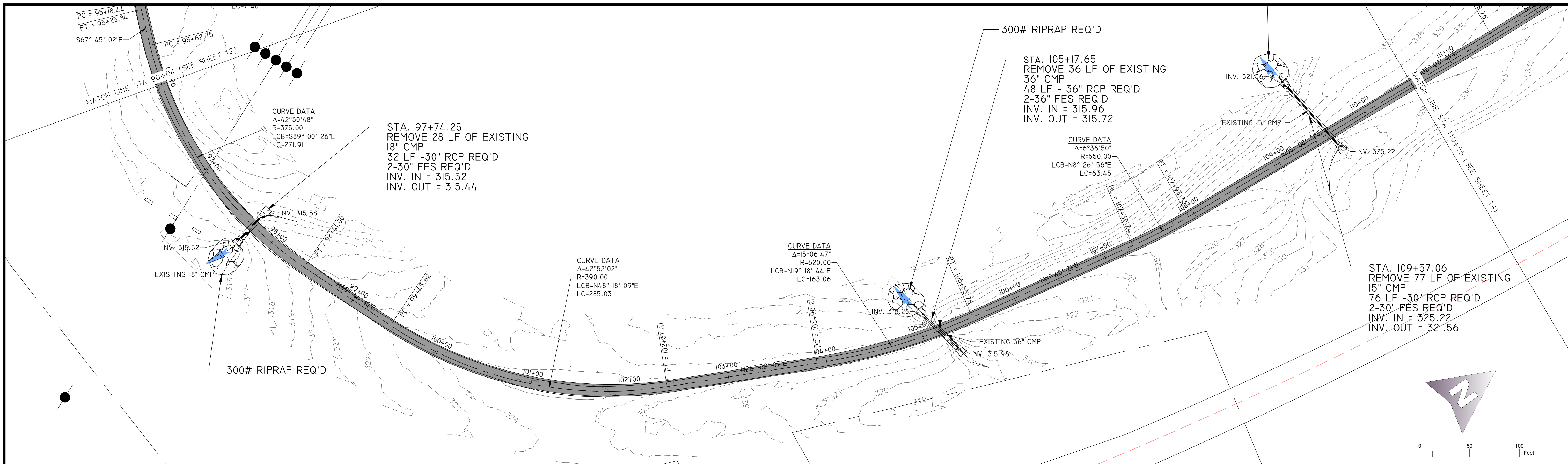
DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C501-510 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE
 WEST PERIMETER ROAD
 STA. 67+00 TO STA. 81+50

WORKING NUMBER: DRAWING NUMBER:
 C 6.05



NOTICE TO DRAWING HOLDER
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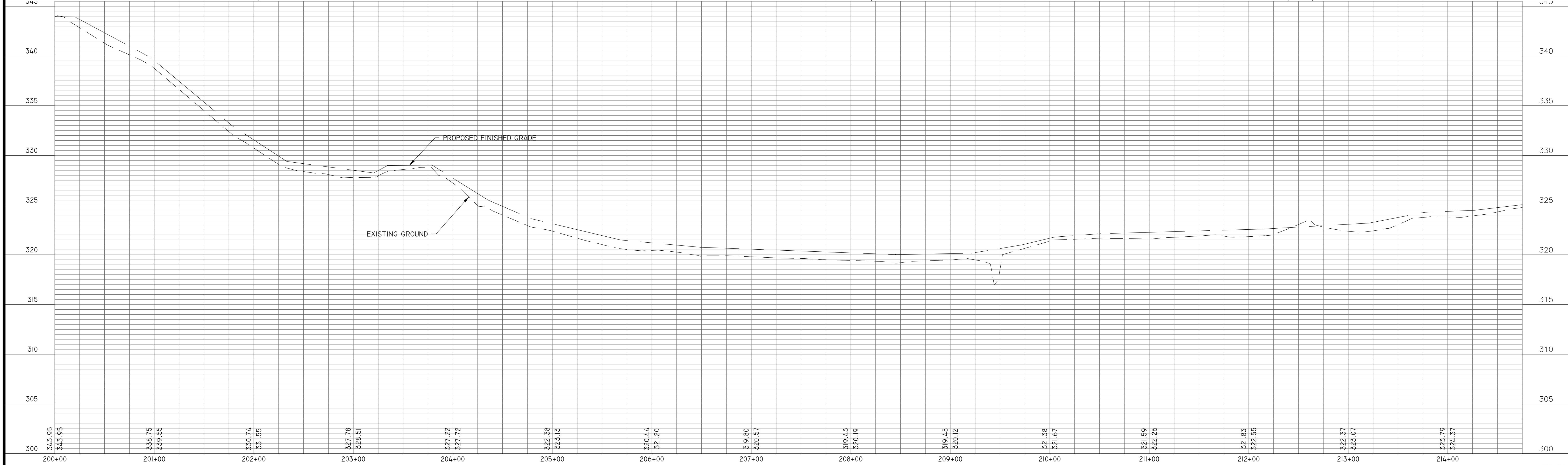
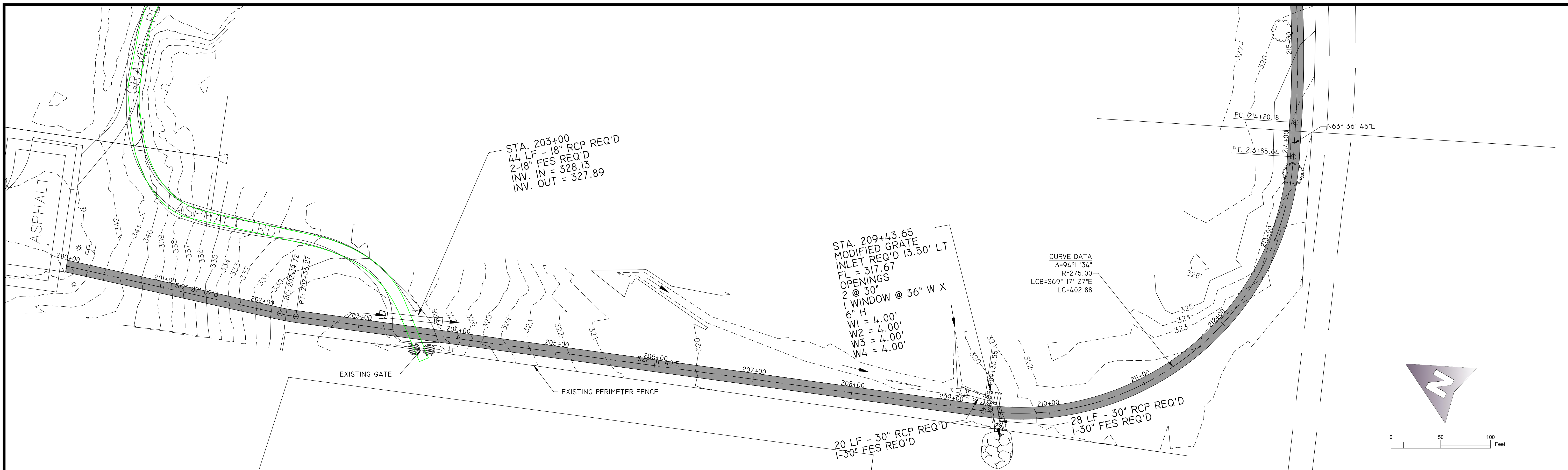
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C501-510 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON MUNICIPAL AIRPORT AUTHORITY
JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
PERIMETER ROAD SERVICE REHABILITATION
JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE WEST PERIMETER ROAD STA. 96+00 TO STA. 110+50	
WORKING NUMBER:	DRAWING NUMBER:
	C 6.07



NOTICE TO DRAWING HOLDER
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

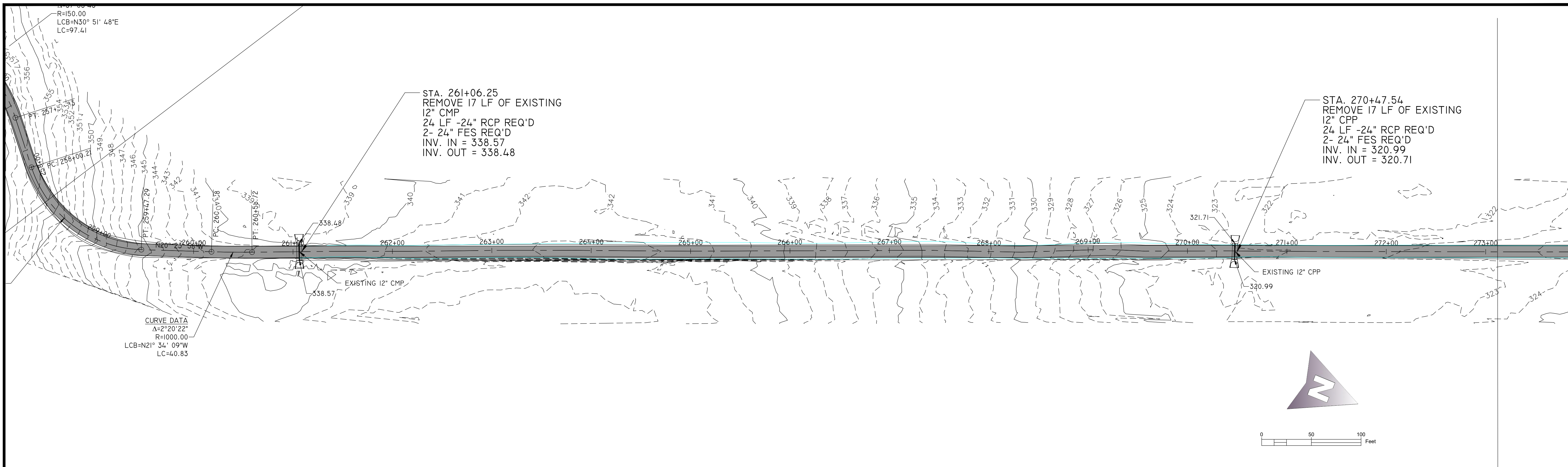
DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C511-522 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI

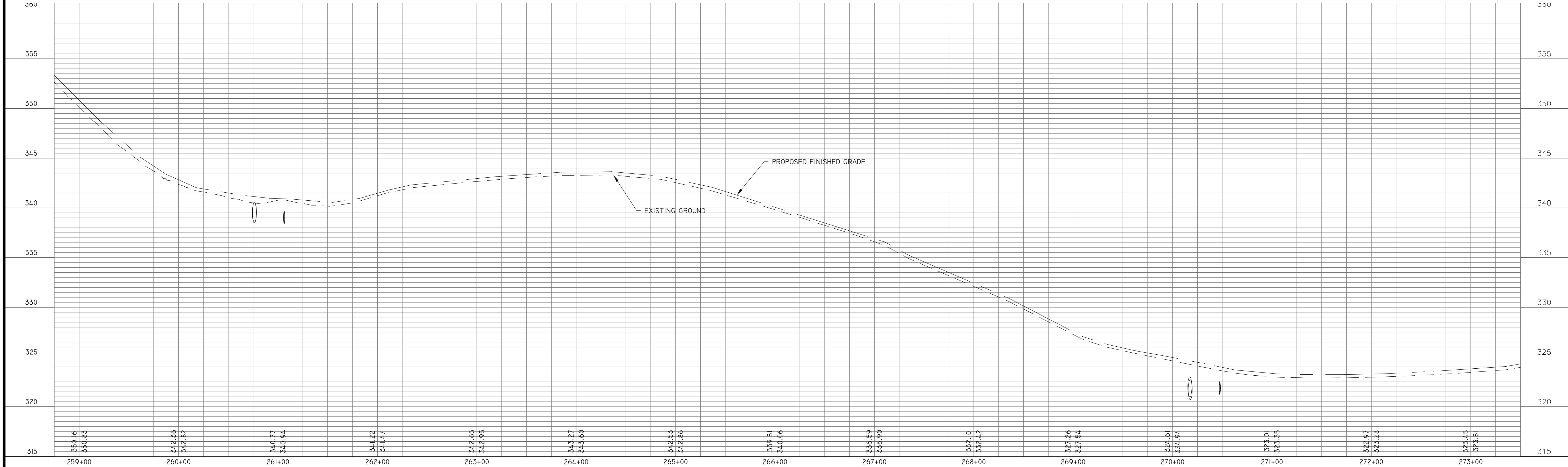
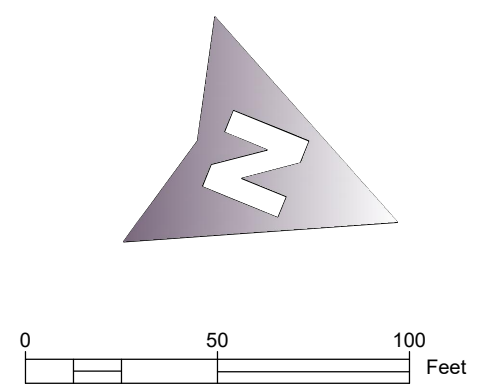

NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE
EAST PERIMETER ROAD STA.
200+00 TO STA. 214+50

WORKING NUMBER: _____ DRAWING NUMBER: **C 6.11**



CURVE DATA
 $\Delta=2^{\circ}20'22''$
 $R=1000.00$
 $LCB=N21^{\circ}34'09''W$
 $LC=40.83$



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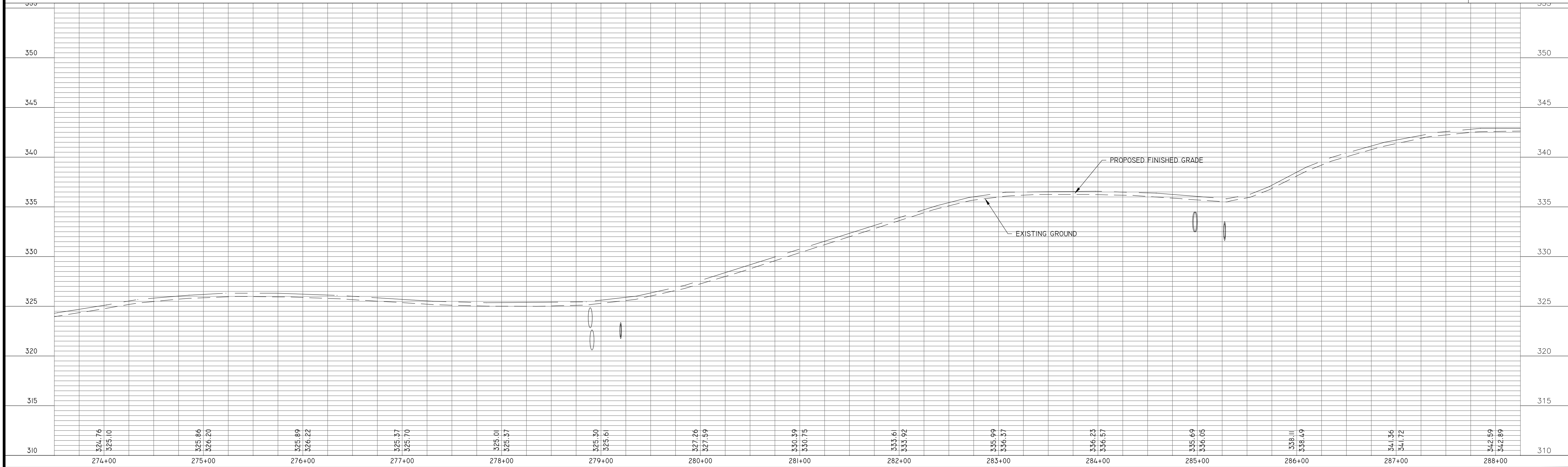
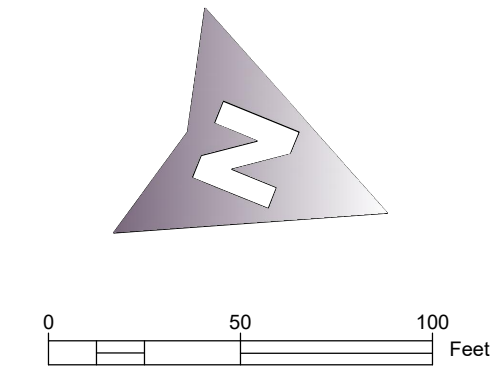
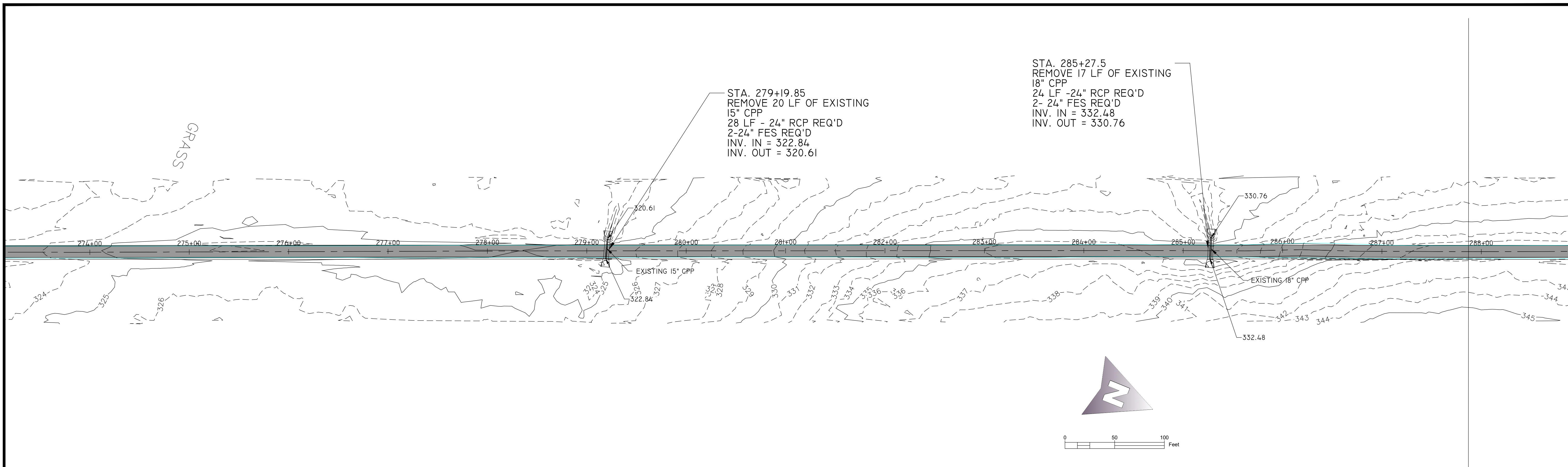
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C511-522 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE EAST PERIMETER ROAD STA 258+75 TO STA 273+00	
WORKING NUMBER:	DRAWING NUMBER:
	C 6.15



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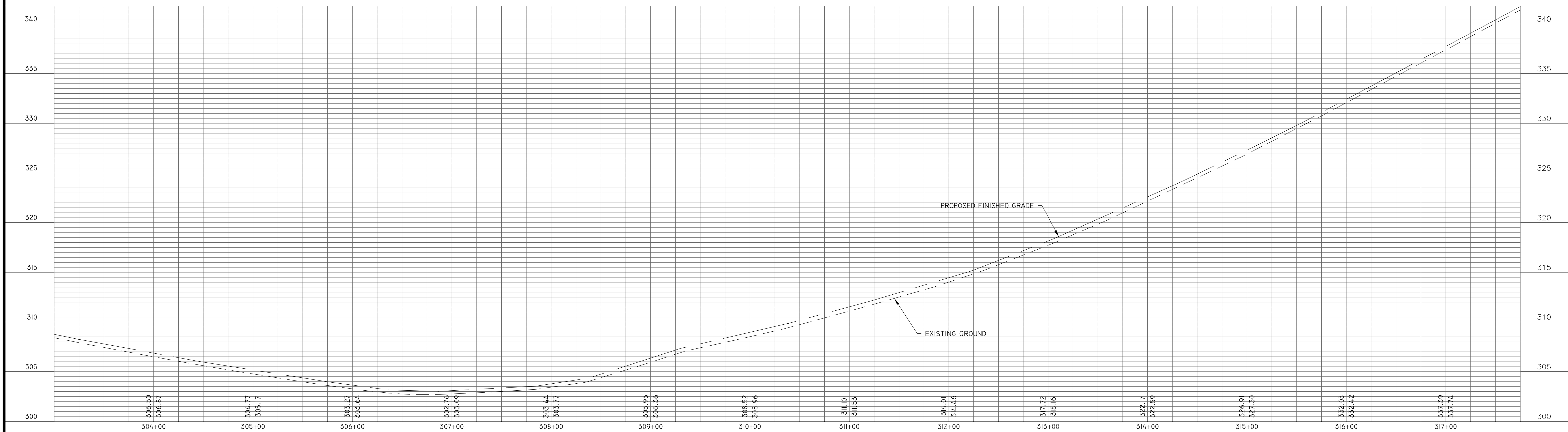
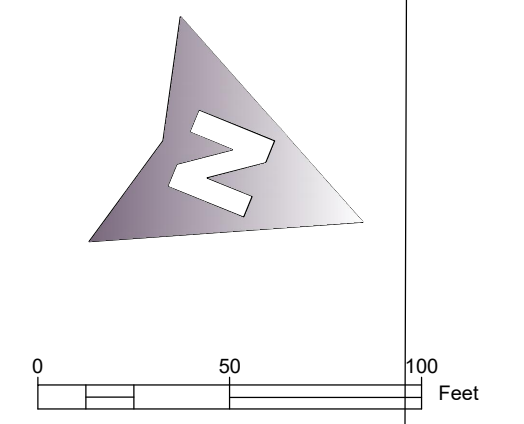
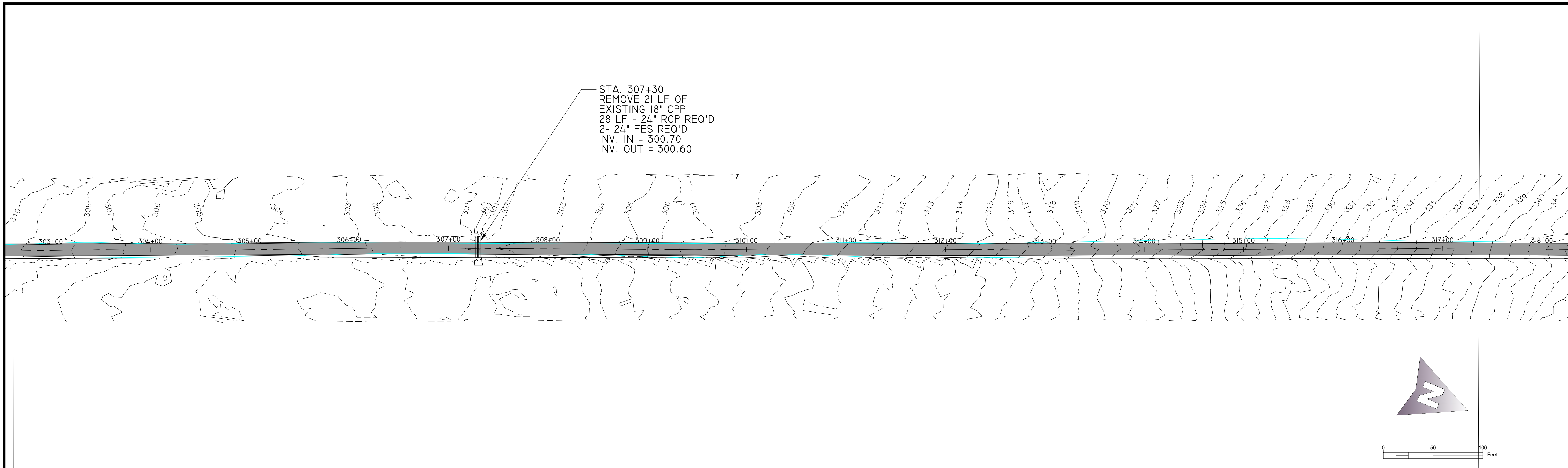
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C511-522 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI


NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE EAST PERIMETER ROAD STA 273+50 TO STA 288+25	
WORKING NUMBER:	DRAWING NUMBER:
	C 6.16



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1	6/4/19	SSV	REPLACED SHEET

DRAWING INFORMATION	
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FILENAME:	C511-522 DRN.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:


JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
 PERIMETER ROAD SERVICE REHABILITATION
 JACKSON, MISSISSIPPI

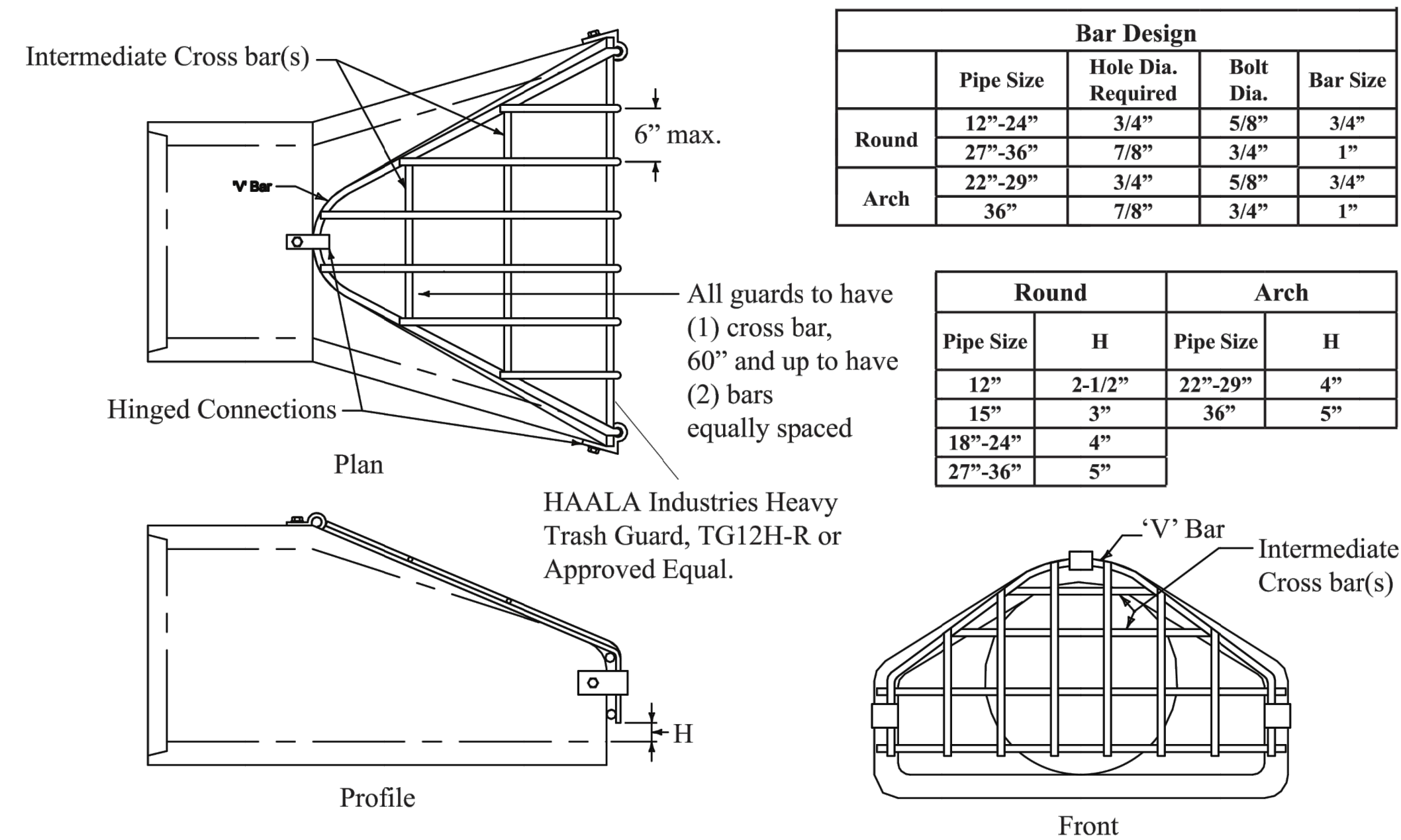

NEEL-SCHAFFER
Solutions you can build upon

DRAINAGE PLAN/PROFILE	
EAST PERIMETER ROAD	
STA 303+00 TO STA. 317+75	
WORKING NUMBER:	DRAWING NUMBER:
	C 6.18

GENERAL NOTES

1. THESE INSTALLATION CONDITIONS ARE TYPICAL AND ARE NOT TO BE CONSTRUED AS REPRESENTATIVE OF ALL CONDITIONS WHICH WILL BE ENCOUNTERED. CONSTRUCTION WILL BE VARIED AS REQUIRED OR DIRECTED TO MEET FIELD CONDITIONS.
2. BARBED WIRE USED FOR DITCH AND GULLY CROSSINGS TO BE TERMINATED APPROXIMATELY 6" ABOVE NORMAL POOL ELEVATION AND CONSTRUCTED IN SUCH AS TO MINIMIZE OBSTRUCTION OF CHANNEL FLOW.

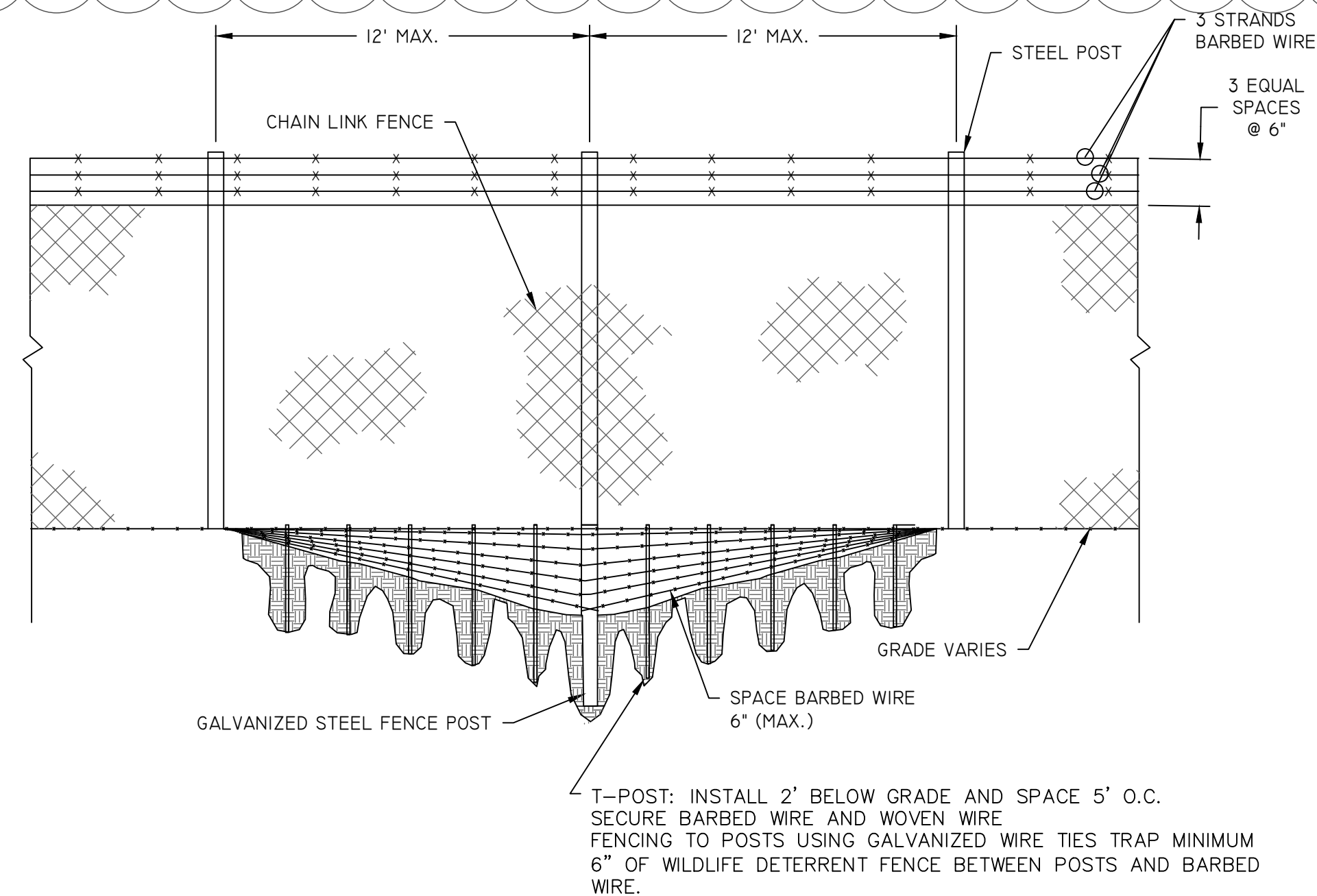
Security Gate for Flared End Section



Bar Design				
	Pipe Size	Hole Dia. Required	Bolt Dia.	Bar Size
Round	12"-24"	3/4"	5/8"	3/4"
	27"-36"	7/8"	3/4"	1"
Arch	22"-29"	3/4"	5/8"	3/4"
	36"	7/8"	3/4"	1"

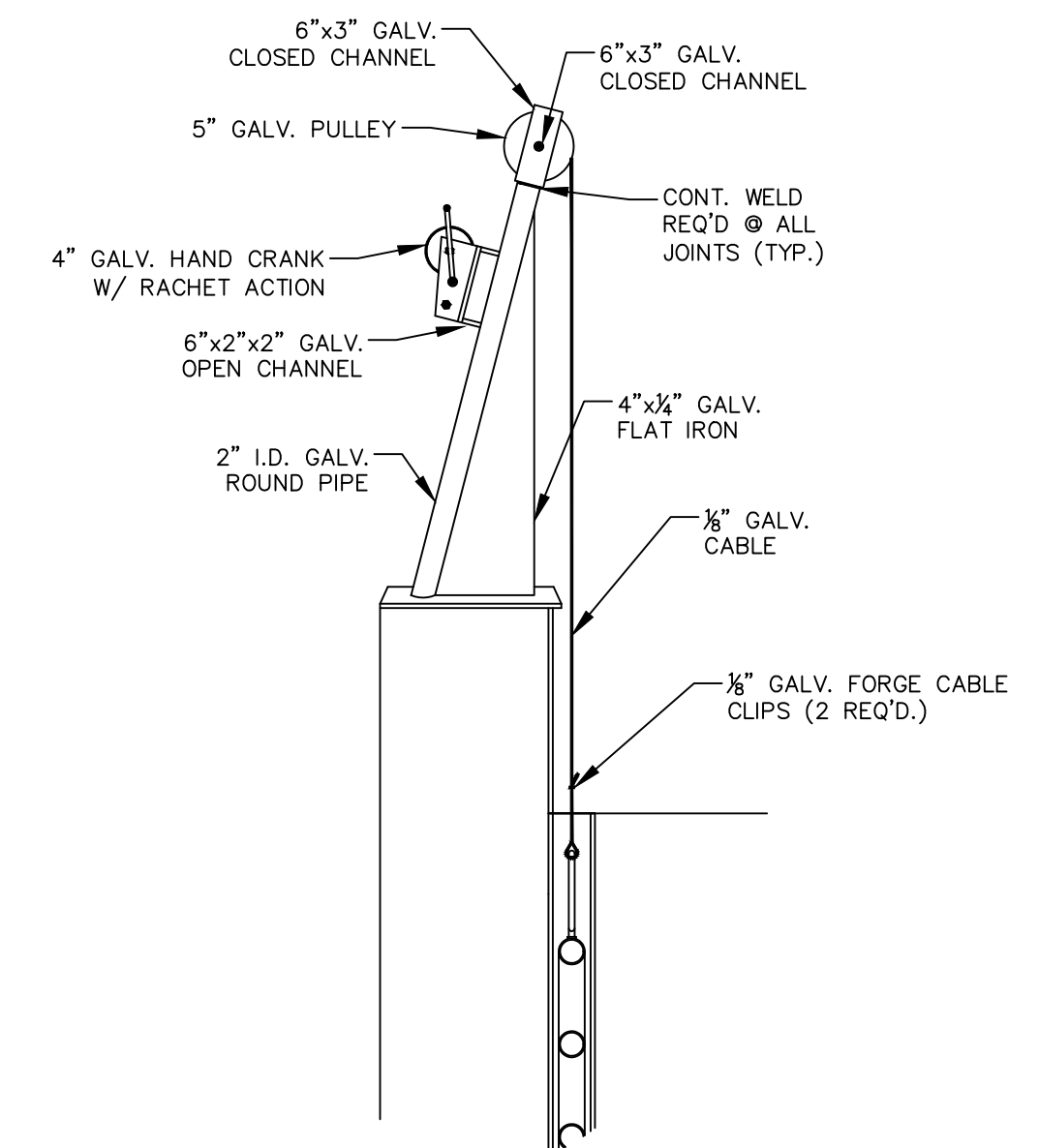
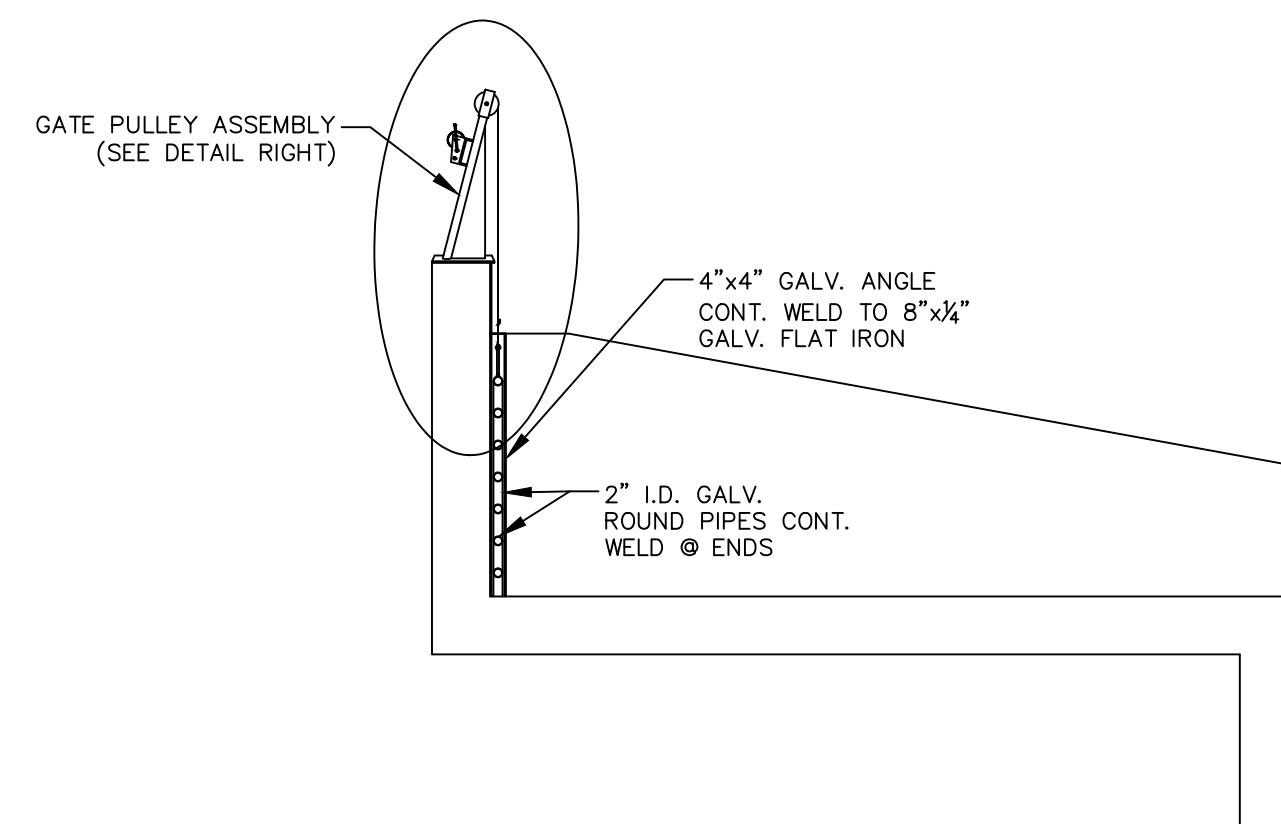
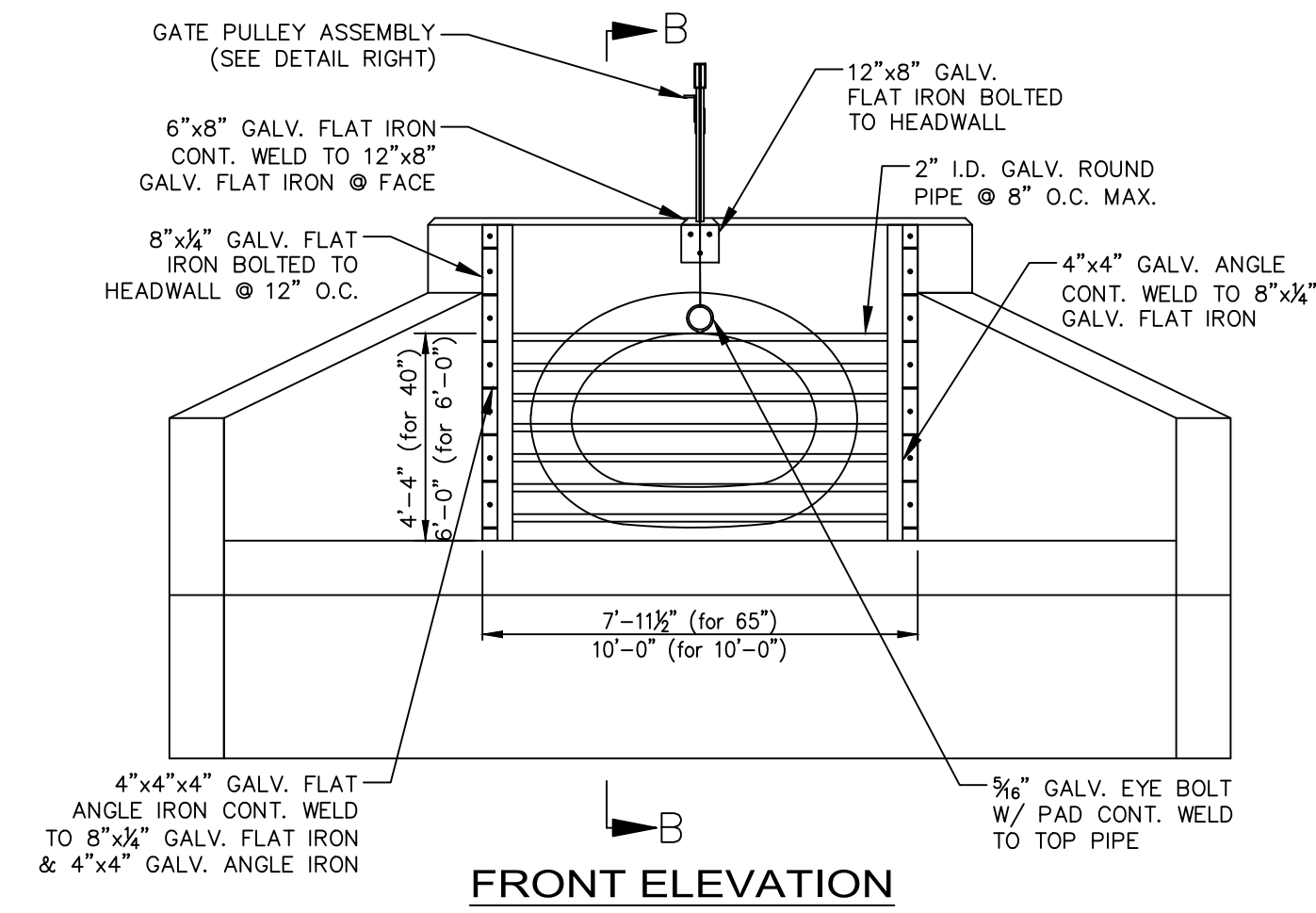
Round		Arch	
Pipe Size	H	Pipe Size	H
12"	2-1/2"	22"-29"	4"
15"	3"	36"	5"
18"-24"	4"		
27"-36"	5"		

Hot dip galvanized per ASTM A123



WILDLIFE EXCLUSION FENCE DITCH CROSSING

SCALE: NONE



SECURITY GATE FOR PIPES WITH HEADWALL (TO BE PAID UNDER PAY ITEM FOR APPROPRIATE SIZED PIPE)

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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	8/4/2019	CCT	ADDENDUM #1

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C702-703.DWG
SCALE:	
SURVEYED BY:	MAPTECH INC.
DSGN:	TCH DATE: 04/2019
DRWN:	RTR DATE: 04/2019
CHKD:	DATE:
QA/QC:	DATE:



**JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
PERIMETER ROAD SERVICE REHABILITATION
JACKSON, MISSISSIPPI**



DITCH CROSSING DETAILS

WORKING NUMBER: DRAWING NUMBER:

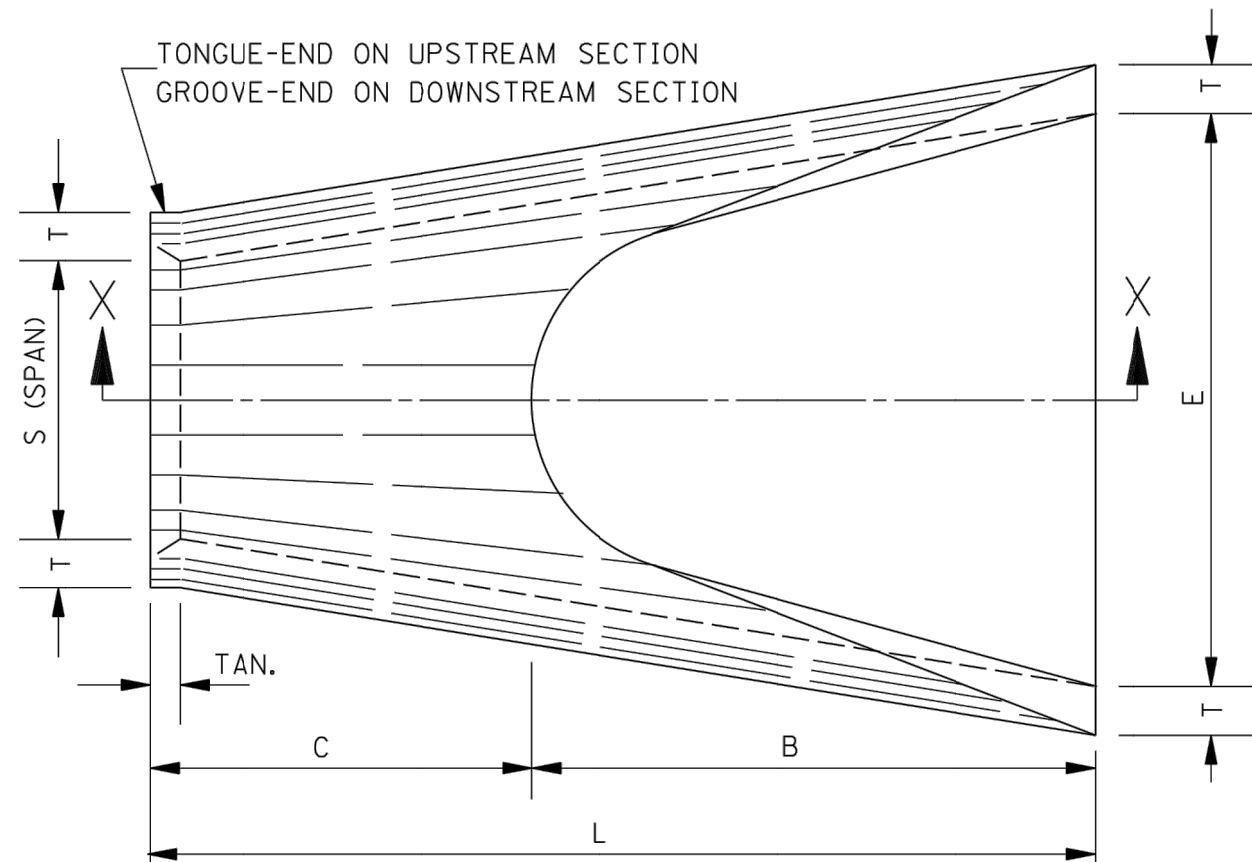
C 7.04

BELL AND SPIGOT END OPTION TYPE I

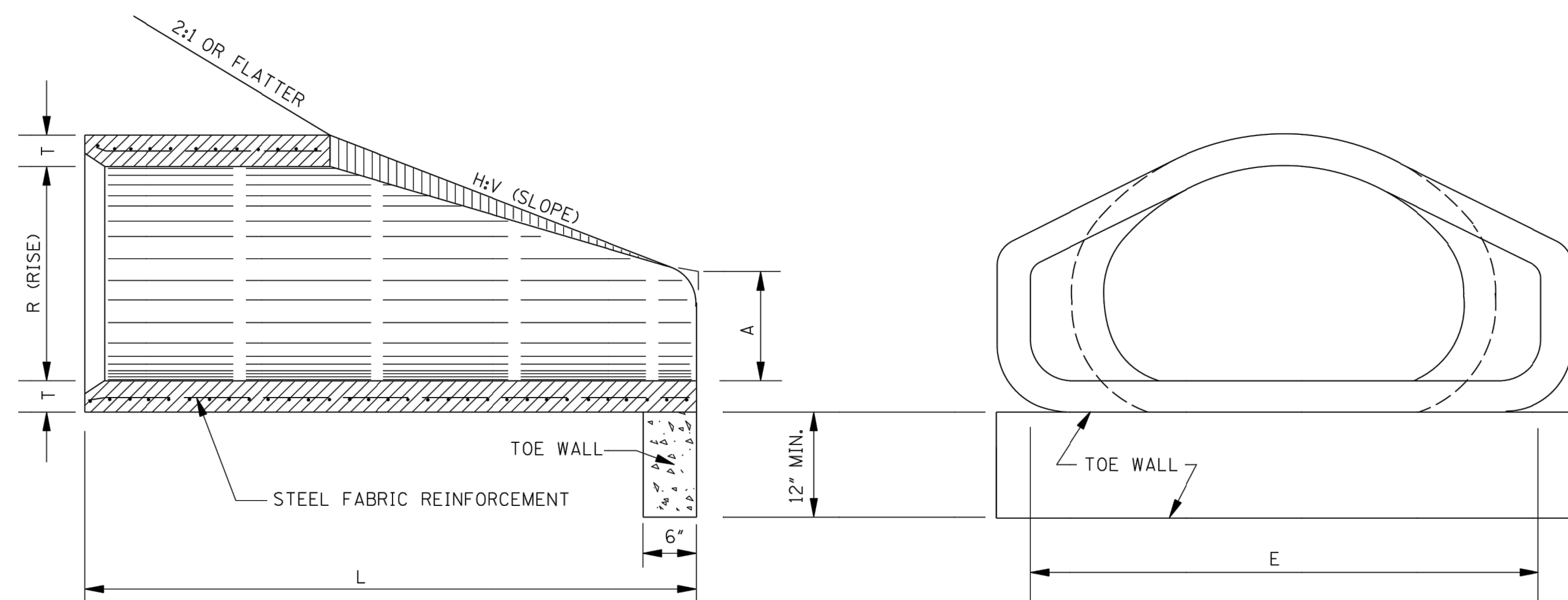
NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

FLARED END SECTION FOR CONCRETE ARCH PIPE									
EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L
18"	13 1/2"	22"	2 1/2"	3:1	7"	2'-3"	3'-9"	3'-0"	6'-0"
24"	18"	28 1/2"	3"	3:1	8"	3'-3"	2'-9"	4'-0"	6'-0"
30"	22 1/2"	36 1/4"	3 1/2"	3:1	10"	4'-0"	2'-0"	5'-0"	6'-0"
36"	26 5/8"	43 3/4"	4"	3:1	10 5/8"	5'-0"	3'-0"	6'-0"	8'-0"
42"	31 1/8"	51 1/8"	4 1/2"	3:1	1'-3 1/2"	5'-0"	3'-0"	6'-6"	8'-0"
48"	36"	58 1/2"	5"	3:1	1'-9"	5'-0"	3'-0"	7'-0"	8'-0"
54"	40"	65"	5 1/2"	3:1	2'-1 1/2"	5'-0"	3'-0"	7'-6"	8'-0"
60"	45"	73"	6"	3:1	2'-2"	6'-3"	1'-9"	8'-0"	8'-0"
72"	54"	88"	7"	3:1	2'-11"	6'-6"	1'-10"	10'-0"	8'-4"

TOE WALL CONC. QUANTITY (yd ³)
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.207



PLAN OF DOWNSTREAM END



SECTION X-X

FRONT ELEVATION

GENERAL NOTES:

- FLARED END SECTIONS SHOULD BE REGARDED AS OBSTACLES UNDER THE BELOW CONDITIONS AND AS SUCH SHOULD BE LOCATED OUTSIDE OF THE CLEAR ZONE.
 - CROSS DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 36" OR EQUIVALENT FOR ARCH PIPES.
 - CROSS DRAINS WITH MULTIPLE ROUND PIPES OF DIAMETER GREATER THAN 30" OR EQUIVALENT FOR ARCH PIPES.
 - PARALLEL SIDE DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 24" OR EQUIVALENT FOR ARCH PIPES.
- UNLESS OTHERWISE DESIGNATED, EITHER TYPE I OR TYPE II MAY BE USED, PROVIDED THE SELECTED TYPE IS COMPATIBLE WITH THE CONFIGURATION OF THE PIPE TO WHICH IT SHALL BE ATTACHED.

- ALL SIZES OF TYPE I AND TYPE II FLARED END SECTIONS FOR CONCRETE ARCH PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.
- REINFORCEMENT (SINGLE LINE) FOR FLARED END SECTION SHALL CONFORM TO REQUIREMENTS OF AASHTO M 206 FOR CLASS II ARCH PIPE.
- TOE WALL REQUIRED ON ALL FLARED END SECTIONS. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.
- FLARED END SECTIONS MUST MEET THE REQUIREMENTS FOR ARCH PIPE OF EITHER AASHTO M 206 OR ASTM C 506.

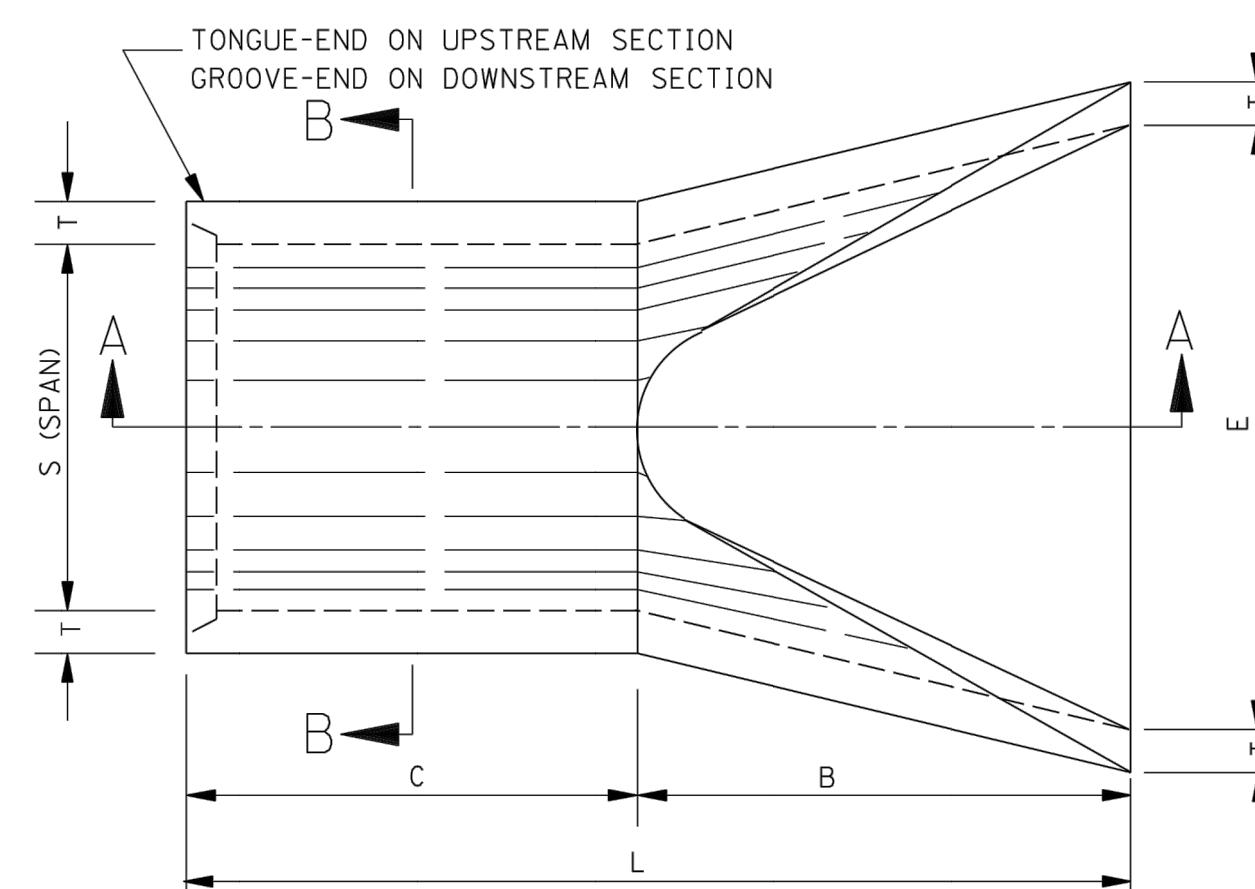
BELL AND SPIGOT END OPTION TYPE II

NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.

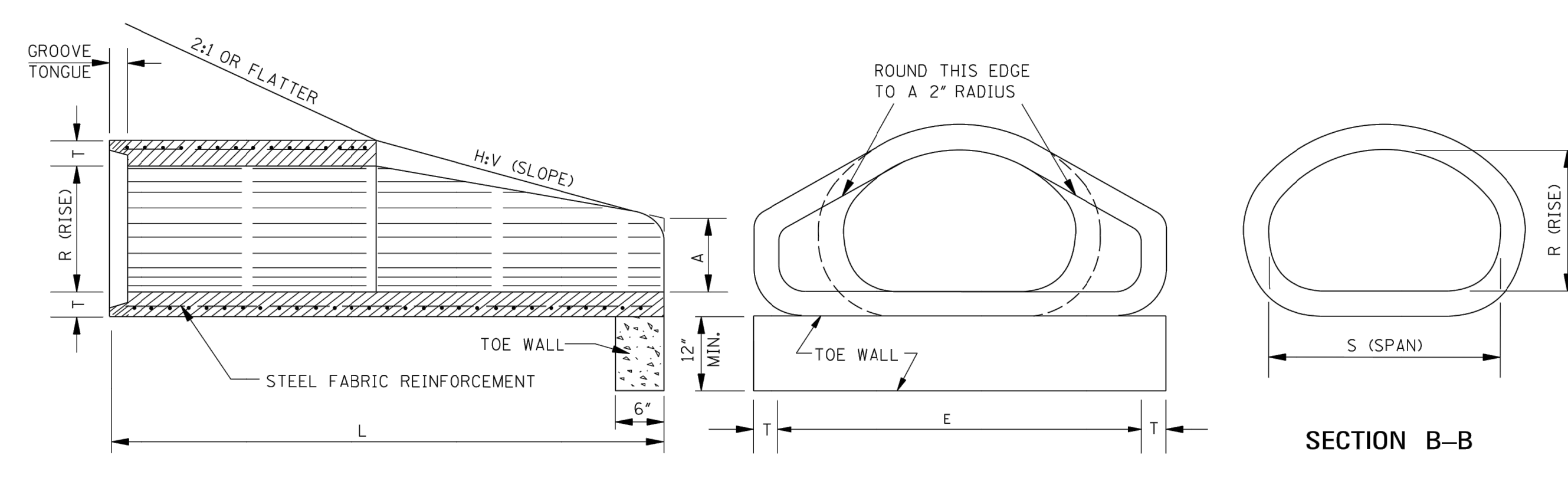
FLARED END SECTION FOR CONC. ARCH PIPE-SHORT FLARE										
EQUIV. SIZE	R	S	T	H:V	A	B	C	E	L	GROOVE TONGUE
* 18"	13 1/2"	22"	2 1/2"	3:1	7"	2'-3"	3'-9"	3'-0"	6'-0"	2 1/4"
24"	18"	28 1/2"	3 1/2"	3.12:1	9"	3'-3"	2'-9 1/2"	4'-0"	6'-0 1/2"	3"
30"	22 1/2"	36 1/4"	4"	2.94:1	9 1/2"	4'-2"	3'-10 1/2"	5'-0"	8'-0 1/2"	3 1/2"
36"	26 5/8"	43 3/4"	4 1/2"	3.08:1	11 5/8"	5'-0"	3'-0 1/2"	6'-0"	8'-0 1/2"	4"
42"	31 1/8"	51 1/8"	4 1/2"	3.08:1	1'-4 5/8"	5'-0"	3'-0 1/2"	6'-6"	8'-0 1/2"	4"
48"	36"	58 1/2"	5"	3.16:1	1'-10"	5'-0"	3'-0 1/2"	7'-0"	8'-0 1/2"	5"
54"	40"	65"	5 1/2"	3.24:1	2'-3"	5'-0"	3'-0 5/8"	7'-6"	8'-0 5/8"	5"
60"	45"	73"	6"	3.33:1	2'-9"	5'-0"	3'-0 5/8"	8'-0"	8'-0 5/8"	5"

TOE WALL CONC. QUANTITY (yd ³)
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167

NOTES: *1. EQUIVALENT 18" FLARED END SECTION SIMILAR TO TYPE I.
2. DIMENSIONS A, B, C, E AND L MAY VARY 1"±.



PLAN OF DOWNSTREAM END



SECTION A-A

FRONT ELEVATION

SECTION B-B

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

FLARED END SECTION FOR CONCRETE ARCH PIPE

WORKING NUMBER
FE-1A
SHEET NUMBER
6531

ISSUE DATE: AUGUST 01, 2017

NOTICE TO DRAWING HOLDER

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO. NS.14713.000	
FILENAME: C800.DWG	
SCALE:	
SURVEYED BY: MAPTECH INC.	
DSGN: TCH DATE: 04/2019	
DRWN: RTR DATE: 04/2019	
CHKD: DATE:	
QA/QC: DATE:	



JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
PERIMETER ROAD SERVICE REHABILITATION
JACKSON, MISSISSIPPI



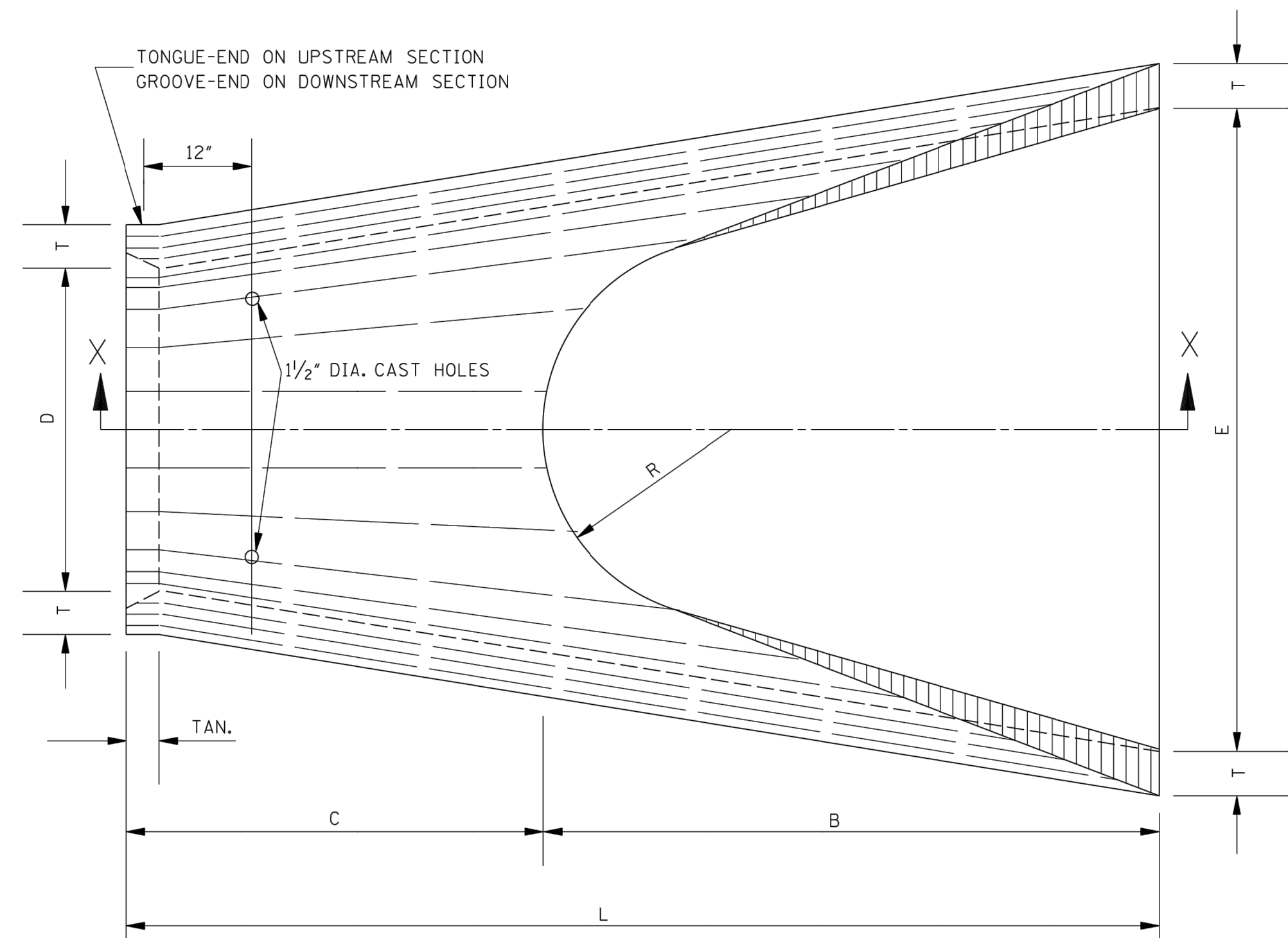
FLARED END SECTION FOR CONCRETE ARCH PIPE

WORKING NUMBER: DRAWING NUMBER:

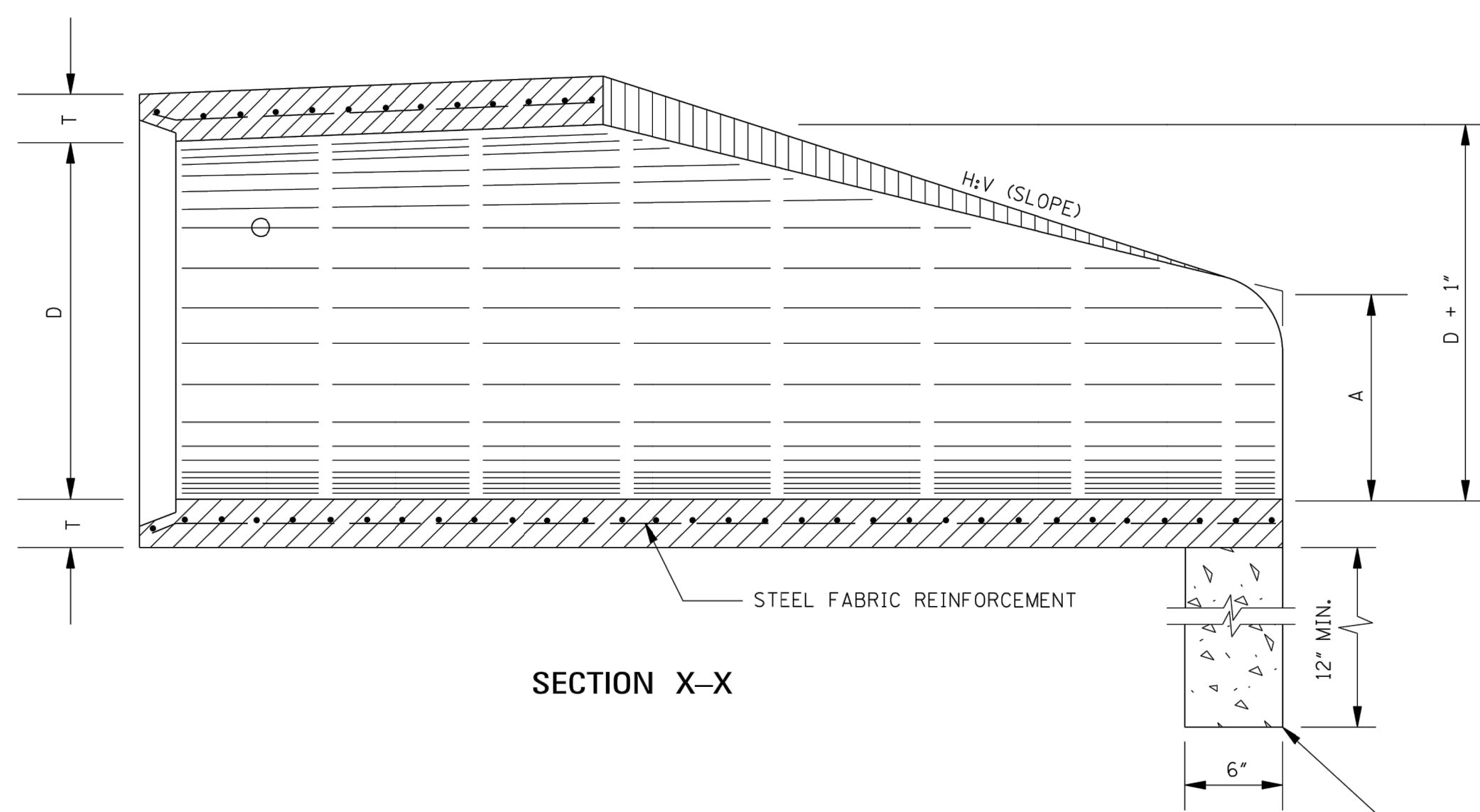
C 8.09

BELL AND SPIGOT END OPTION

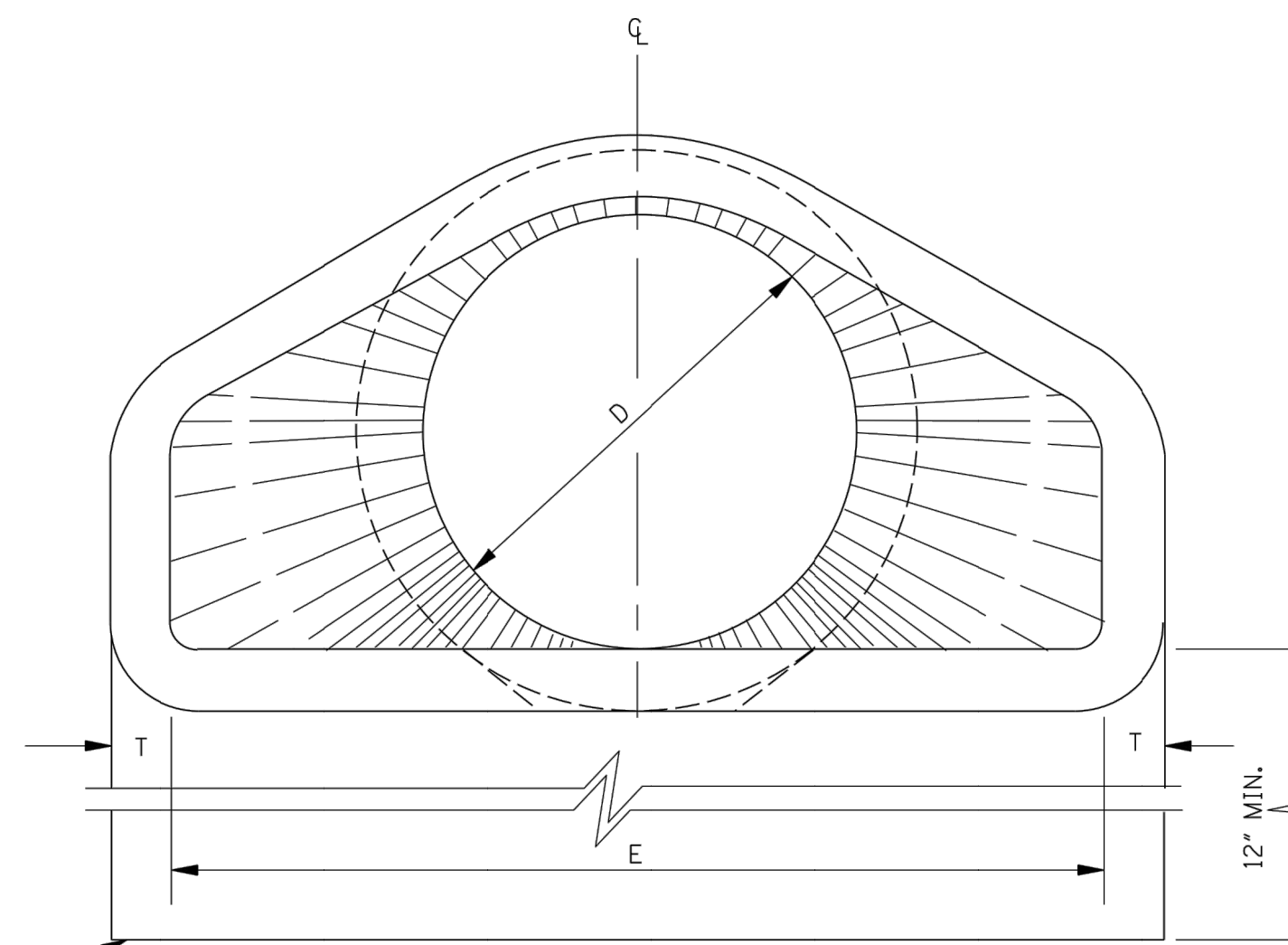
NOTE: BELL-END ON DOWNSTREAM SECTION
SPIGOT-END ON UPSTREAM SECTION.



PLAN OF DOWNSTREAM END



SECTION X-X



END ELEVATION

TOE WALL REQUIRED ON ALL FLARED END SECTIONS. TO BE PAID FOR AS CLASS "B" STRUCTURAL CONCRETE - MINOR STRUCTURES.

D	T	H:V	A	B	C	E	L
15"	2 1/4"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
18"	2 1/2"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	3 1/2"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4 1/2"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5 1/2"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
* 60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
* 66"	6 1/2"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
* 72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

* NOTE: SEE GENERAL NOTE 2.

0.056
0.063
0.083
0.102
0.123
0.134
0.145
0.156
0.167
0.177
0.188

GENERAL NOTES:

- REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
- 2 - 1/2" DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 - 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
- LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
- FLARED END SECTIONS SHOULD BE REGARDED AS OBSTACLES UNDER THE BELOW CONDITIONS AND AS SUCH SHOULD BE LOCATED OUTSIDE OF THE CLEAR ZONE:
 - CROSS DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 36" OR EQUIVALENT FOR ARCH PIPES.
 - CROSS DRAINS WITH MULTIPLE ROUND PIPES OF DIAMETER GREATER THAN 30" OR EQUIVALENT FOR ARCH PIPES.
 - PARALLEL SIDE DRAINS WITH SINGLE ROUND PIPES OF DIAMETER GREATER THAN 24" OR EQUIVALENT FOR ARCH PIPES.
- ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
REVISION		FLARED END SECTION FOR CONCRETE PIPE	
DATE			
ISSUE DATE:		AUGUST 01, 2017	
		WORKING NUMBER FE-1 SHEET NUMBER 6530	

NOTICE TO DRAWING HOLDER

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.	NS.14713.000
FILENAME:	C800.DWG
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SURVEYED BY:	MAPTECH INC.
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QA/QC:	DATE:



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PERIMETER ROAD SERVICE REHABILITATION
JACKSON, MISSISSIPPI



FLARED END SECTION
FOR CONCRETE PIPE

WORKING NUMBER: DRAWING NUMBER:

C 8.10

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G 0.01	COVER SHEET
G 0.02	INDEX TO DRAWINGS AND SUMMARY OF QUANTITIES
G 0.03	GENERAL NOTES
G 0.04	OVERALL SITE PLAN
G 0.05	SAFETY AND PHASING DETAILS AND NOTES
G 0.06	SAFETY AND PHASING PLAN (WEST)
G 0.07	SAFETY AND PHASING PLAN (EAST)
C 1.01	DEMOLITION PLAN - WEST ROAD STA. 10+00 TO STA. 40+00
C 1.02	DEMOLITION PLAN - WEST ROAD STA. 40+00 TO STA. 70+00
C 1.03	DEMOLITION PLAN - WEST ROAD STA. 70+00 TO STA. 98+00
C 1.04	DEMOLITION PLAN - WEST ROAD STA 98+00 TO STA. 129+00
C 1.05	DEMOLITION PLAN - WEST ROAD STA. 129+00 TO STA. 146+05
C 1.06	DEMOLITION PLAN - EAST ROAD STA. 200+00 TO STA. 229+00
C 1.07	DEMOLITION PLAN - EAST ROAD STA. 229+00 TO STA. 260+00
C 1.08	DEMOLITION PLAN - EAST ROAD STA. 260+00 TO STA. 288+00
C 1.09	DEMOLITION PLAN - EAST ROAD STA. 288+00 TO STA. 317+00
C 1.10	DEMOLITION PLAN - EAST ROAD STA 317+00 TO STA. 349+00
C 1.11	DEMOLITION PLAN - EAST ROAD STA. 349+00 TO STA. 365+29
C 1.12	DEMOLITION PLAN - RUNWAY 16L FENCE
C 2.01	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 10+00
C 2.02	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 23+50
C 2.03	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 38+0
C 2.04	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 52+50
C 2.05	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 67+00
C 2.06	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 81+5
C 2.07	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 96+00
C 2.08	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 110+50
C 2.09	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 125+0
C 2.10	PRELIMINARY EROSION CONTROL PLAN WEST PERIMETER ROAD STA. 139+5
C 2.11	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA. 200+00
C 2.12	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 214+50
C 2.13	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 229+25
C 2.14	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 244+00
C 2.15	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 258+75
C 2.16	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 273+50
C 2.17	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 288+25
C 2.18	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 303+00
C 2.19	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 317+75
C 2.20	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 332+50
C 2.21	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 347+25
C 2.22	PRELIMINARY EROSION CONTROL PLAN EAST PERIMETER ROAD STA 362+00
C 3.01	EROSION CONTROL
C 3.02	TYPICAL TEMPORARY EROSION CONTROL MEASURES
C 3.03	TYPICAL TEMPORARY EROSION CONTROL MEASURES
C 3.04	TYPICAL TEMPORARY EROSION CONTROL MEASURES
C 3.05	DETAILS OF TYPICAL DITCH TREATMENTS
C 3.06	TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS
C 3.07	DETAILS OF SEDIMENT BARRIER APPLICATIONS
C 3.08	DETAILS OF SILT FENCE INSTALLATION
C 3.09	DITCH CHECK STRUCTURES TYPICAL APPLICATIONS AND DETAILS
C 3.10	TEMPORARY EROSION SEDIMENT AND WATER POLLUTION
C 3.11	DETAILS OF EROSION CONTROL WATTLE DITCH CHECK
C 3.12	DETAILS OF EROSION CONTROL SILT DIKE DITCH CHECK
C 3.13	ROCK DITCH CHECKS
C 3.14	STABILIZED CONSTRUCTION ENTRANCE
C 3.15	DETAILS OF TYPICAL DITCH TREATMENTS
C 3.16	SUPER SILT FENCE
C 3.17	EROSION CONTROL BLANKET
C 4.01	TYPICAL SECTION
C 5.01	PERIMETER ROAD STA. 10+00 TO STA. 23+50
C 5.02	PERIMETER ROAD STA. 23+50 TO STA. 38+00
C 5.03	PERIMETER ROAD STA. 38+00 TO STA. 52+50
C 5.04	PERIMETER ROAD STA. 52+50 TO STA. 67+00
C 5.05	PERIMETER ROAD STA. 67+00 TO STA. 81+50
C 5.06	PERIMETER ROAD STA. 81+50 TO STA. 96+00
C 5.07	PERIMETER ROAD STA. 96+00 TO STA. 110+50
C 5.08	PERIMETER ROAD STA. 110+50 TO STA. 125+00
C 5.09	PERIMETER ROAD STA. 125+00 TO STA. 139+50
C 5.10	PERIMETER ROAD STA. 139+50 TO STA. 147+97.90'
C 5.11	EAST PERIMETER ROAD STA. 200+00 TO STA. 214+50

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C 5.12	EAST PERIMETER ROAD STA 214+50 TO STA 229+25
C 5.13	EAST PERIMETER ROAD STA 229+25 TO STA 244+00
C 5.14	EAST PERIMETER ROAD STA 244+00 TO STA 258+75
C 5.15	EAST PERIMETER ROAD STA 258+75 TO STA 273+50
C 5.16	EAST PERIMETER ROAD STA 273+50 TO STA 288+25
C 5.17	EAST PERIMETER ROAD STA 288+25 TO STA303+00
C 5.18	EAST PERIMETER ROAD STA 303+00 TO STA. 317+75
C 5.19	EAST PERIMETER ROAD STA 317+75 TO STA. 332+50
C 5.20	EAST PERIMETER ROAD STA 332+50 TO STA. 347+25
C 5.21	EAST PERIMETER ROAD STA 347+25 TO STA. 362+00
C 5.22	EAST PERIMETER ROAD STA 262+00 TO STA 365+28.70'
C 5.23	CROSS SECTIONS STA. 62+57.43 TO STA. 77+00
C 5.24	CROSS SECTIONS STA. 78+00 TO STA. 115+50
C 5.25	CROSS SECTIONS STA. 116+00 TO STA. 123+50
C 5.26	CROSS SECTIONS STA. 124+00 TO STA. 121+50
C 5.27	CROSS SECTIONS STA. 132+00 TO STA. 139+50
C 5.28	CROSS SECTIONS STA. 140+00 TO STA. 145+48.15
C 5.29	CROSS SECTIONS STA. 200+00 TO STA. 207+50
C 5.30	CROSS SECTIONS STA. 208+00 TO STA. 215+50
C 5.31	CROSS SECTIONS STA. 216+00 TO STA. 223+50
C 5.32	CROSS SECTIONS STA. 224+00 TO STA. 231+50
C 5.33	CROSS SECTIONS STA. 232+00 TO STA. 239+50
C 5.34	CROSS SECTIONS STA. 240+00 TO STA. 247+50
C 5.35	CROSS SECTIONS STA. 248+00 TO STA. 344+00
C 5.36	CROSS SECTIONS STA. 344+50 TO STA. 352+00
C 5.37	CROSS SECTIONS STA. 352+50 TO STA. 360+00
C 5.38	CROSS SECTIONS STA. 360+50 TO STA. 365+00
C 6.01	DRAINAGE PROFILE WEST PERIMETER ROAD STA. 10+00 TO STA. 23+50
C 6.02	DRAINAGE PROFILE WEST PERIMETER ROAD STA. 23+50 TO STA. 38+00
C 6.03	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 38+00 TO STA. 52
C 6.04	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 52+50 TO STA. 67+
C 6.05	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 67+00 TO STA. 81+
C 6.06	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 81+50 TO STA. 96+
C 6.07	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 96+00 TO STA. 110
C 6.08	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA 110+50 TO STA 125+
C 6.09	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 125+00 TO STA. 13
C 6.10	DRAINAGE PLAN PROFILE WEST PERIMETER ROAD STA. 139+50 TO STA. 14
C 6.11	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA. 200+00 TO STA. 21
C 6.12	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 214+50 TO STA
C 6.13	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 229+25 TO
C 6.14	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 244+00 TO STA
C 6.15	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 258+75 TO STA
C 6.16	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 273+50 TO STA
C 6.17	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 288+25 TO STA
C 6.18	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 303+00 TO STA.
C 6.19	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 317+75 TO STA
C 6.20	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 332+50 TO STA
C 6.21	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 347+25 TO STA.
C 6.22	DRAINAGE PLAN PROFILE EAST PERIMETER ROAD STA 362+00 TO
C 7.01	FENCING LAYOUT
C 7.02	FENCING DETAILS
C 7.03	FENCING DETAILS
C 7.04	DITCH CROSSING DETAILS
C 8.01	PIPE CULVERT INSTALLATION
C 8.02	JUNCTION BOX FOR PIPE CULVERTS
C 8.03	JUNCTION BOX FOR BOX CULVERT TO CONCRETE ARCH PIPE
C 8.04	SMALL ANIMAL GUARD AND UNDERDRAIN MARKER
C 8.05	HEADWALLS FOR CONCRETE PIPE, 2-1 SLOPE, 0°-15° SKEW
C 8.06	HEADWALLS FOR CONCRETE PIPE, 2-1 SLOPE, 30° SKEW
C 8.07	HEADWALLS FOR CONCRETE ARCH PIPE, 2-1 SLOPE, 0°-15° SKEW
C 8.08	HEADWALLS FOR CONCRETE ARCH PIPE, 2-1 SLOPE, 30° SKEW
C 8.09	FLARED END SECTION FOR CONCRETE ARCH PIPE
C 8.10	FLARED END SECTION FOR CONCRETE PIPE
C 9.01	CIVIL DETAILS

BASE BID			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
C-102-5.1	Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	LS	1
C-105	Mobilization	LS	1
D-701-5.1.2	24-inch Reinforced Concrete Pipe, Class III	LF	100
D-701-5.1.3	30-inch Reinforced Concrete Pipe, Class III	LF	108
D-701-5.1.4	36-inch Reinforced Concrete Pipe, Class III	LF	84
D-701-5.1.5	42-inch Reinforced Concrete Pipe, Class III	LF	44
D-701-5.1.6	54-inch Reinforced Concrete Pipe, Class III	LF	66
D-701-5.1.7	60-inch Reinforced Concrete Pipe, Class III	LF	84
D-701-5.1.8	66-inch Reinforced Concrete Pipe, Class III	LF	84
D-701-5.2.1	22" x 13" Concrete Arch Pipe, Class III	LF	28
D-701-5.2.2	44" x 27" Concrete Arch Pipe, Class III	LF	56
D-701-5.2.3	73" x 45" Concrete Arch Pipe, Class III	LF	112
D-701-5.3.1	Geotextile for Subsurface Drainage, Type III	SY	3000
D-701-5.3.2	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM	CY	75
D-701-5.4.2	24-inch Reinforced Concrete Pipe Flared End Section	EA	10
D-701-5.4.3	30-inch Reinforced Concrete Pipe Flared End Section	EA	6
D-701-5.4.4	36-inch Reinforced Concrete Pipe Flared End Section	EA	4
D-701-5.4.5	22" x 13" Reinforced Concrete Pipe Flared End Section	EA	2
D-701-5.5.2	24-inch Security Grate for Flared End Section	EA	5
D-701-5.5.3	30-inch Security Grate for Flared End Section	EA	3
D-701-5.5.4	36-inch Security Grate for Flared End Section	EA	2
D-701-5.5.5	22" x 13" Security Grate for Flared End Section	EA	1
D-701-5.6.2	54" Security Grate for Pipes with Headwalls	EA	3
D-701-5.6.3	60" Security Grate for Pipes with Headwalls	EA	1
D-701-5.6.4	66" Security Grate for Pipes with Headwalls	EA	3
D-701-5.6.5	44" x 27" Security Grate for Pipes with Headwalls	EA	1
D-701-5.6.6	73" x 45" Security Grate for Pipes with Headwalls	EA	2
D-752-4.1	Removal of Pipe, 8" and Above	LF	600
D-752-4.3	Structural Concrete	CY	134
D-752-4.4	Reinforcing Steel	LBS	6416
D-752-4.5	Geotextile Stabilizations, Type V, Non-Woven	SY	1000
F-162-5.1	Chain-Link Fence	LF	2680
F-162-5.2	Fence Demolition	LF	2350
P-151-4.1	Clearing	AC	5
P-152-4.1	Unclassified Excavation	CY	3750
P-152-4.2	Embankment in place	CY	14700
P-152-4.3	Undercut Excavation (Roadway Repair)	CY	700
P-152-4.4	Structure Excavation	CY	3000
P-152-4.5	Undercut Excavation	CY	6800
P-155-8.1	Lime-Treated Subgrade	SY	11998
P-155-8.2	Lime	Ton	400
P-209-4.1	Crushed Aggregate	Ton	21935
T-901-5.1	Seeding	AC	8
T-905-5.1	Topsoil (Obtained on Site or Removed from Stockpile)	CY	602
T-905-5.2	Topsoil (Furnished from Off Site)	CY	2775
TS-101-5.1	Preparation of Existing Roadbed	SY	22750
TS-118-5.1	Loose Rip Rap (300#) w/geotextile Fabric	Ton	120
TS-129-5.1	Implementation of Construction Safety and Phasing Plan	LS	1
TS-129-5.2	Type I Barricades	EA	28
TS-129-5.3	Airport Traffic Control Sign	EA	2

ADDITIVE ALTERNATE 1			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
D-701-5.1.1	18-inch Reinforced Concrete Pipe, Class III	LF	44
D-701-5.1.3	30-inch Reinforced Concrete Pipe, Class III	LF	48
D-701-5.1.5	42-inch Reinforced Concrete Pipe, Class III	LF	36
D-701-5.4.1	18-inch Reinforced Concrete Pipe Flared End Section	EA	2
D-701-5.4.3	30-inch Reinforced Concrete Pipe Flared End Section	EA	2
D-701-5.5.1	18-inch Security Grate for Flared End Section	EA	1
D-701-5.5.3	30-inch Security Grate for Flared End Section	EA	1
D-701-5.6.1	42" Security Grate for pipes with Headwalls	EA	1
P-151-4.2	Clearing and Grubbing	AC	5
P-152-4.1	Unclassified Excavation	CY	1930
P-152-4.2	Embankment in place	CY	830
P-152-4.5	Undercut Excavation	CY	400
P-155-8.1	Lime-Treated Subgrade	SY	8322
P-155-8.2	Lime	Ton	300
P-209-4.1	Crushed Aggregate	Ton	4525
ADDITIVE ALTERNATE 2			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
P-209-4.1	Crushed Aggregate	Ton	850
TS-101-5.1	Preparation of Existing Roadbed	SY	6880

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	6/4/2019	CCT	ADDENDUM #1

DRAWING INFORMATION	
N-S PROJECT NO. NS.14713.000	
FILENAME: G002.DWG	
SCALE:	
SURVEYED BY: MAPTECH INC.	
DSGN: TCH DATE: 04/2019	
DRWN: RTR DATE: 04/2019	
CHKD: DATE:	
QA/QC: DATE:	



JACKSON-MEDGER WILEY EVERS INTERNATIONAL AIRPORT
PERIMETER ROAD SERVICE REHABILITATION
JACKSON, MISSISSIPPI



INDEX TO DRAWINGS AND SUMMARY OF QUANTITIES

WORKING NUMBER:	DRAWING NUMBER:
	G 0.02

PIPE FOR STORM DRAINS AND CULVERTS**DESCRIPTION**

701-1.1 This item shall consist of the construction of pipe culverts and storm drains in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the plans.

MATERIALS

701-2.1 Reference Specification. This item shall conform with applicable portions of the “Mississippi Standard Specifications for Road and Bridge Construction,” 2017 Edition, Section 603 “Culverts and Storm Drains”, and Section 605 “Underdrains.”

METHOD OF MEASUREMENT

701-3.1 The length of pipe shall be measured in linear feet of pipe in place, completed, and accepted. It shall be measured along the centerline of the pipe from end or inside face of structure to the end or inside face of structure, whichever is applicable. The identify each class, types and size of pipe shall be measured separately. All fittings shall be included in the footage as typical pipe sections in the pipe being measured.

701-3.2. The length of pipe shall be measured in linear feet of arch pipe in place, completed, and accepted. It shall be measured along the centerline of the pipe from end or inside face of structure to the end or inside face of structure, whichever is applicable. The identify each class, types and size of pipe shall be measured separately. All fittings shall be included in the footage as typical pipe sections in the pipe being measured.

701-3.3. Geotextile and filter material for combination storm drains and subsurface drainage shall be measured by contract unit.

701-3.4. Reinforced concrete flared end sections shall be measured by individual unit and size installed in place and accepted by engineer.

701-3.5. Security Gate for precast flared end section shall be measured per each unit installed and accepted in place.

701-3.6. Security Gate for pipes with headwalls shall be measured per each unit installed and accepted in place.

BASIS OF PAYMENT

701-5.0 These prices shall fully compensate the Contractor for furnishing all materials and for all preparation, excavation, and installation of these materials; and for all labor, equipment, tools, and incidentals necessary to complete installation of the item.

701-5.1 Payment will be made at the contract unit price per linear foot for identify each class and size of pipe.

701-5.2 Payment will be made at the contract unit price per linear foot for identify each class and size of arch pipe.

701-5.3 Payment will be made at the contract unit price per unit for identify each type of material for underdrain and drainage.

701-5.4 Payment will be made at the contract unit price per each for precast flared end section.

PIPE FOR STROM DRAINS AND CULVERTS

701-5.5 Payment will be made at the contract unit price per each Security Grate for each precast flared end section.

701-5.6 Payment will be made at the contract unit price per each security grate for pipes with headwalls.

Payment will be made under:

Item 701-5.1.1	18-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.2	24-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.3	30-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.4	36-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.5	42-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.6	54-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.7	60-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.1.8	66-inch Reinforced Concrete Pipe, Class III - per linear foot
Item 701-5.2.1	22" x 13" Concrete Arch Pipe, Class III - per linear foot
Item 701-5.2.2	44" x 27" Concrete Arch Pipe, Class III - per linear foot
Item 701-5.2.3	73" x 45" Concrete Arch Pipe, Class III - per linear foot
Item 701-5.3.1	Geotextile for Subsurface Drainage, Type III - per square yard
Item 701-5.3.2	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM - per cubic yard
Item 701-5.4.1	18-inch Reinforced Concrete Pipe Flared End Section - per each
Item 701-5.4.2	24-inch Reinforced Concrete Pipe Flared End Section - per each
Item 701-5.4.3	30-inch Reinforced Concrete Pipe Flared End Section - per each
Item 701-5.4.4	36-inch Reinforced Concrete Pipe Flared End Section - per each
Item 701-5.4.5	22" x 13" Reinforced Concrete Pipe Flared End Section - per each
Item 701-5.5.1	18-inch Security Grate for Flared End Section - per each
Item 701-5.5.2	24-inch Security Grate for Flared End Section - per each
Item 701-5.5.3	30-inch Security Grate for Flared End Section - per each
Item 701-5.5.4	36-inch Security Grate for Flared End Section - per each
Item 701-5.5.5	22" x 13" Security Grate for Flared End Section - per each
Item 701-5.6.1	42" Security Grate for Pipes with Headwalls - per each
Item 701-5.6.2	54" Security Grate for Pipes with Headwalls - per each
Item 701-5.6.3	60" Security Grate for Pipes with Headwalls - per each
Item 701-5.6.4	66" Security Grate for Pipes with Headwalls - per each
Item 701-5.6.5	44" x 27" Security Grate for Pipes with Headwalls - per each
Item 701-5.6.6	73" x 45" Security Grate for Pipes with Headwalls - per each