

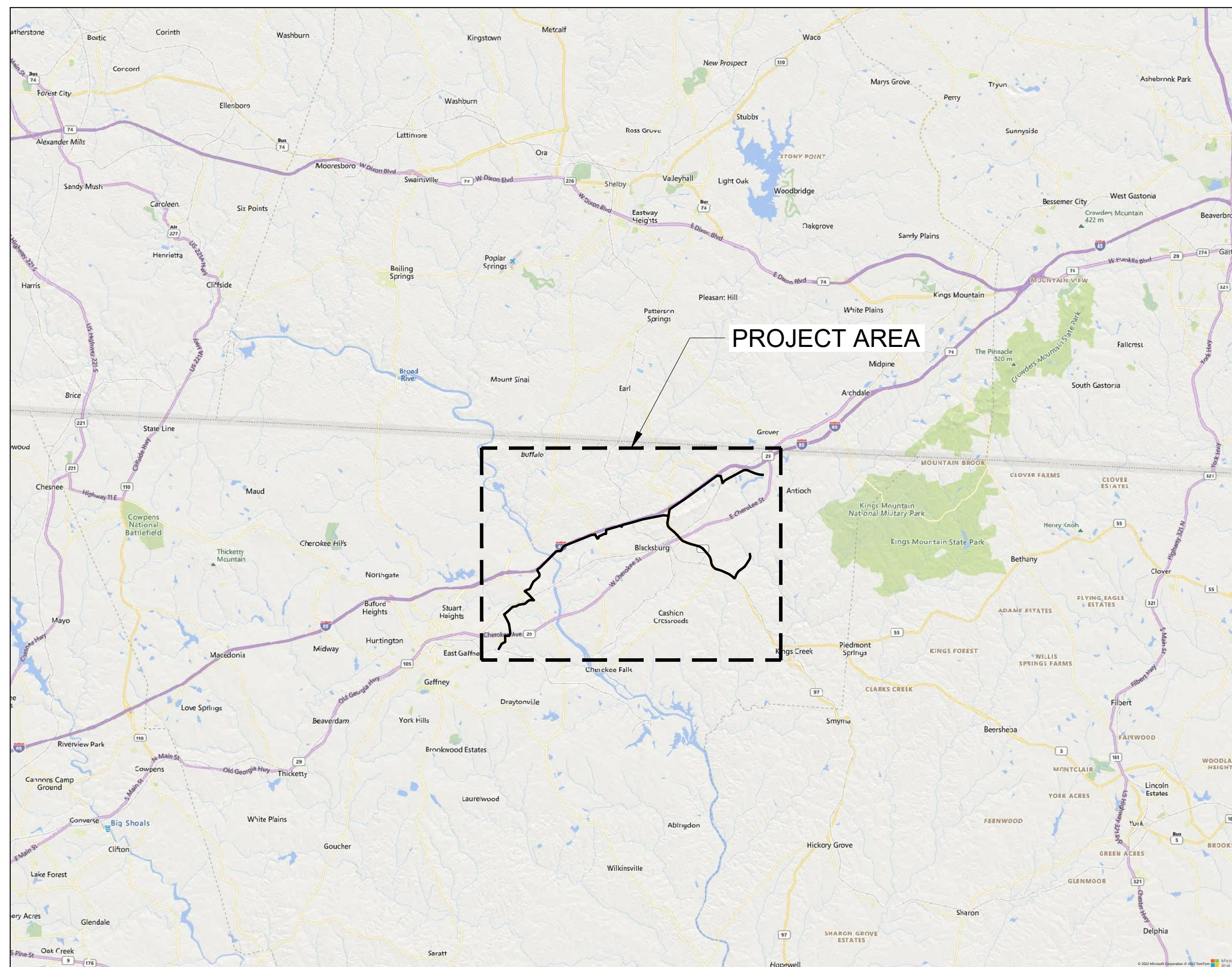
GAFFNEY BOARD OF PUBLIC WORKS

PROJECT GATEWAY VOLUME 2B: COLLECTIONS

60% SUBMITTAL

JUNE 2022

B&V PROJECT NO. 410381



LOCATION MAP



Gaffney, South Carolina

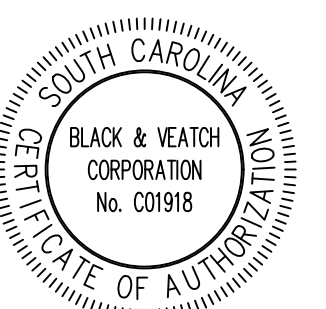
BPW

Board of Public Works



BLACK & VEATCH
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Black & Veatch Corporation
Greenville, South Carolina



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SUBCONSULTANT:

GAFFNEY BOARD OF PUBLIC WORKS

**PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS**

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

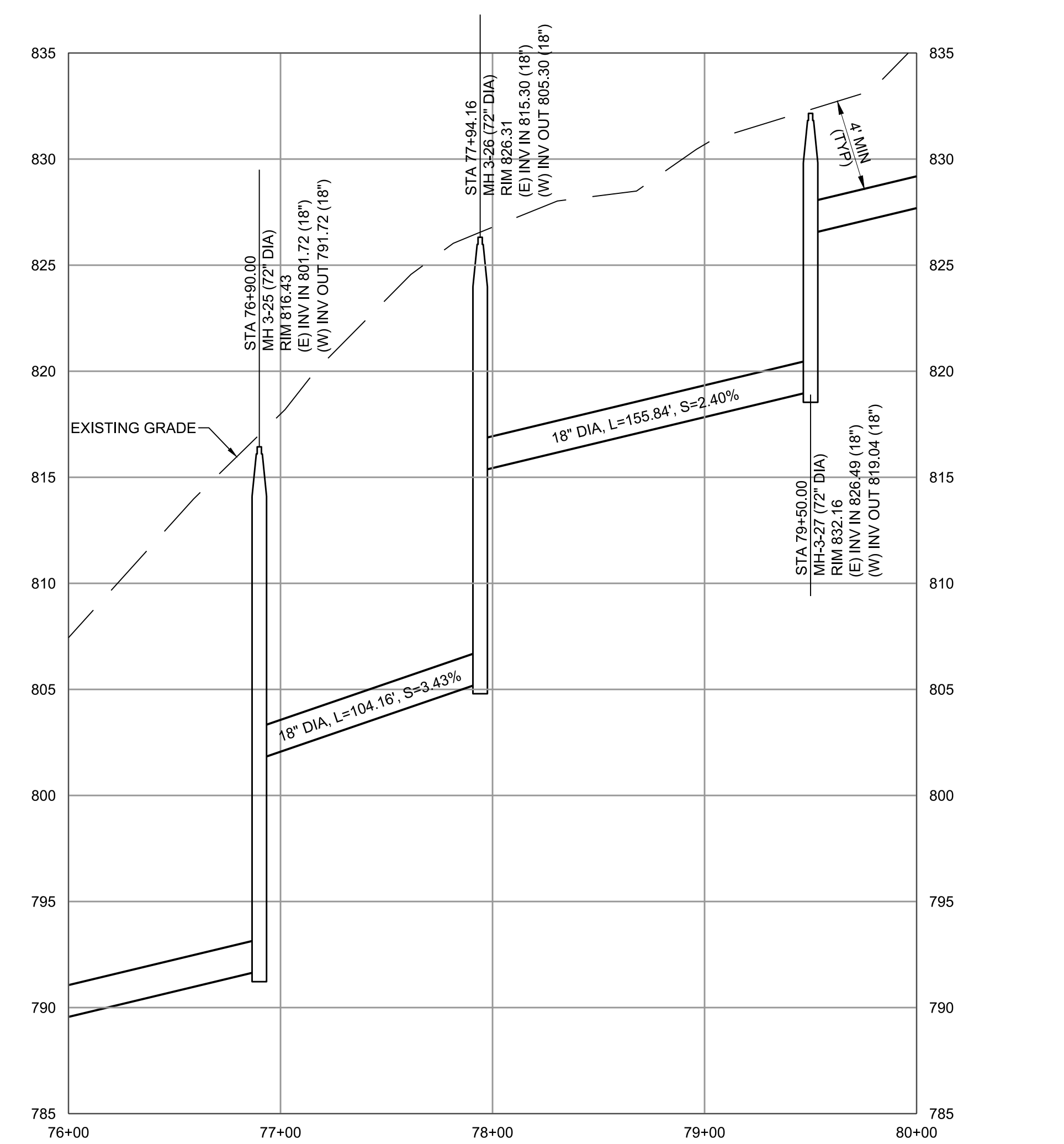
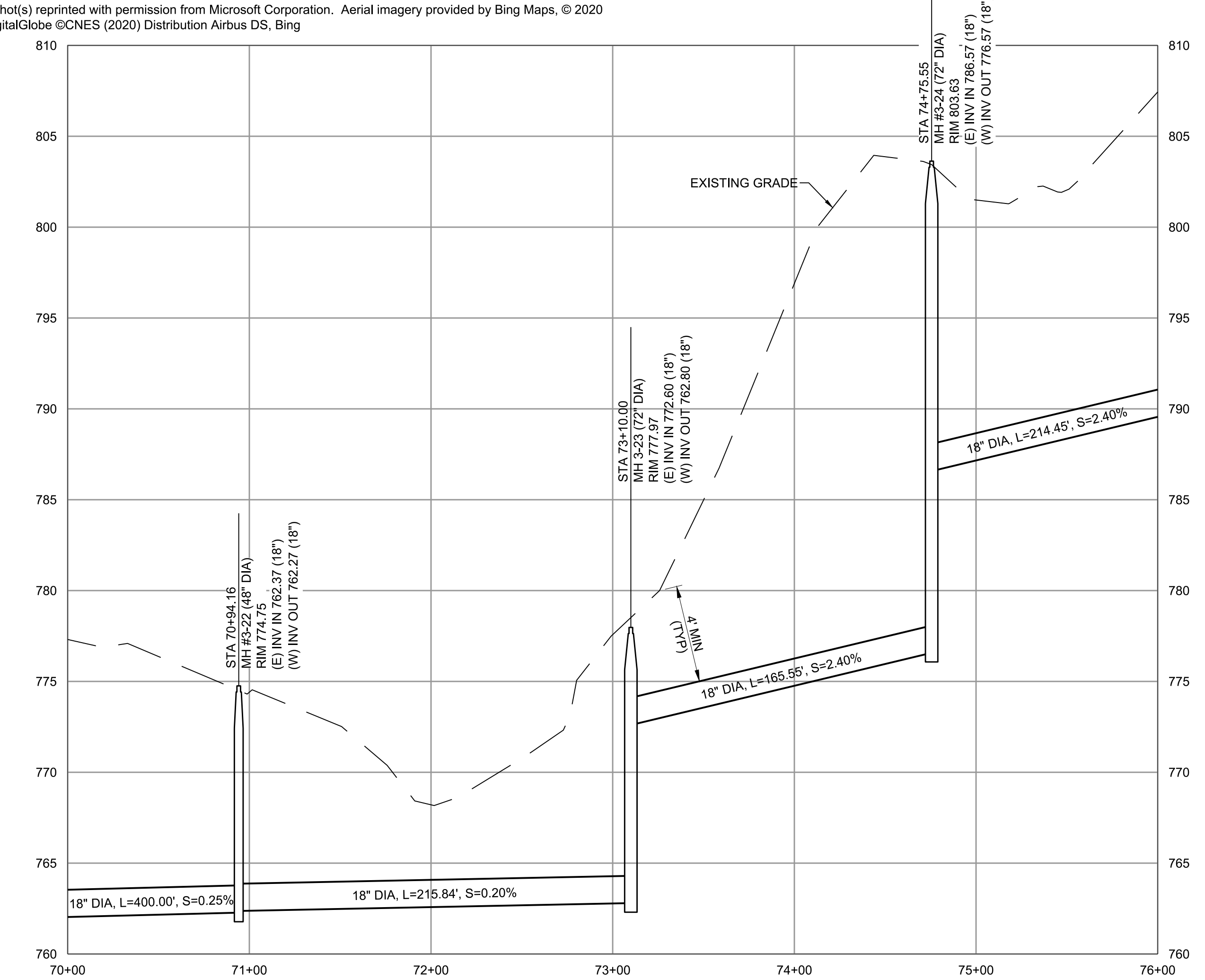
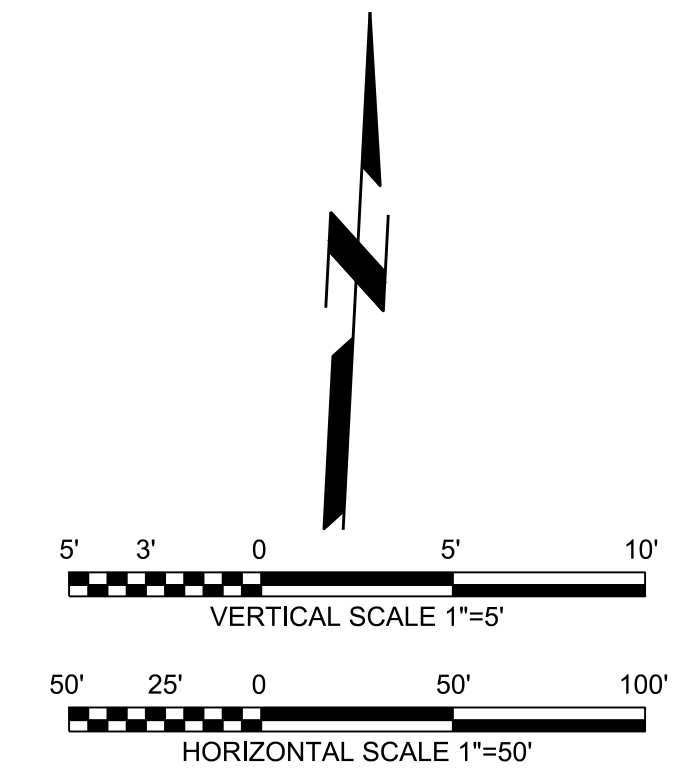
**SEGMENT 3
GRAVITY SEWER**

CIVIL

**PLAN AND PROFILE
STA 70+00 TO STA 80+00**

C-03-047

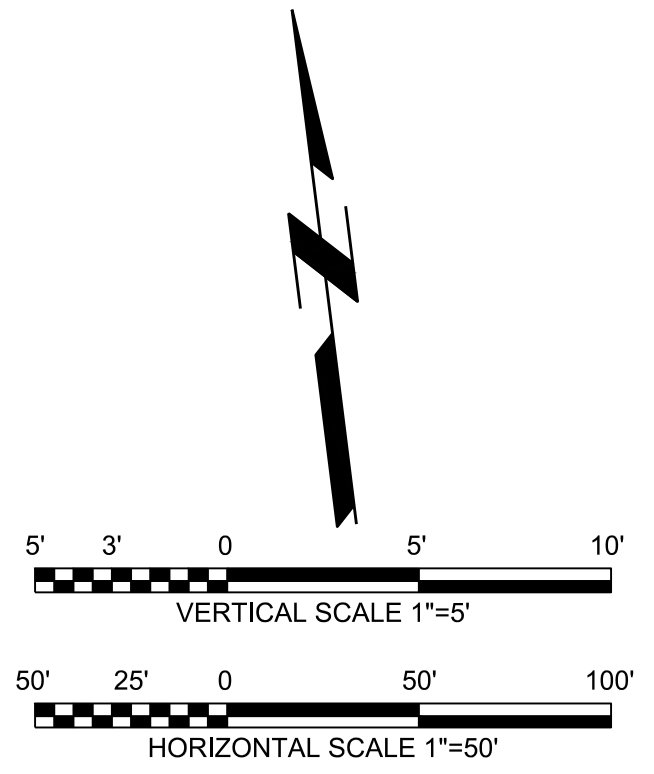
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OF
XXX



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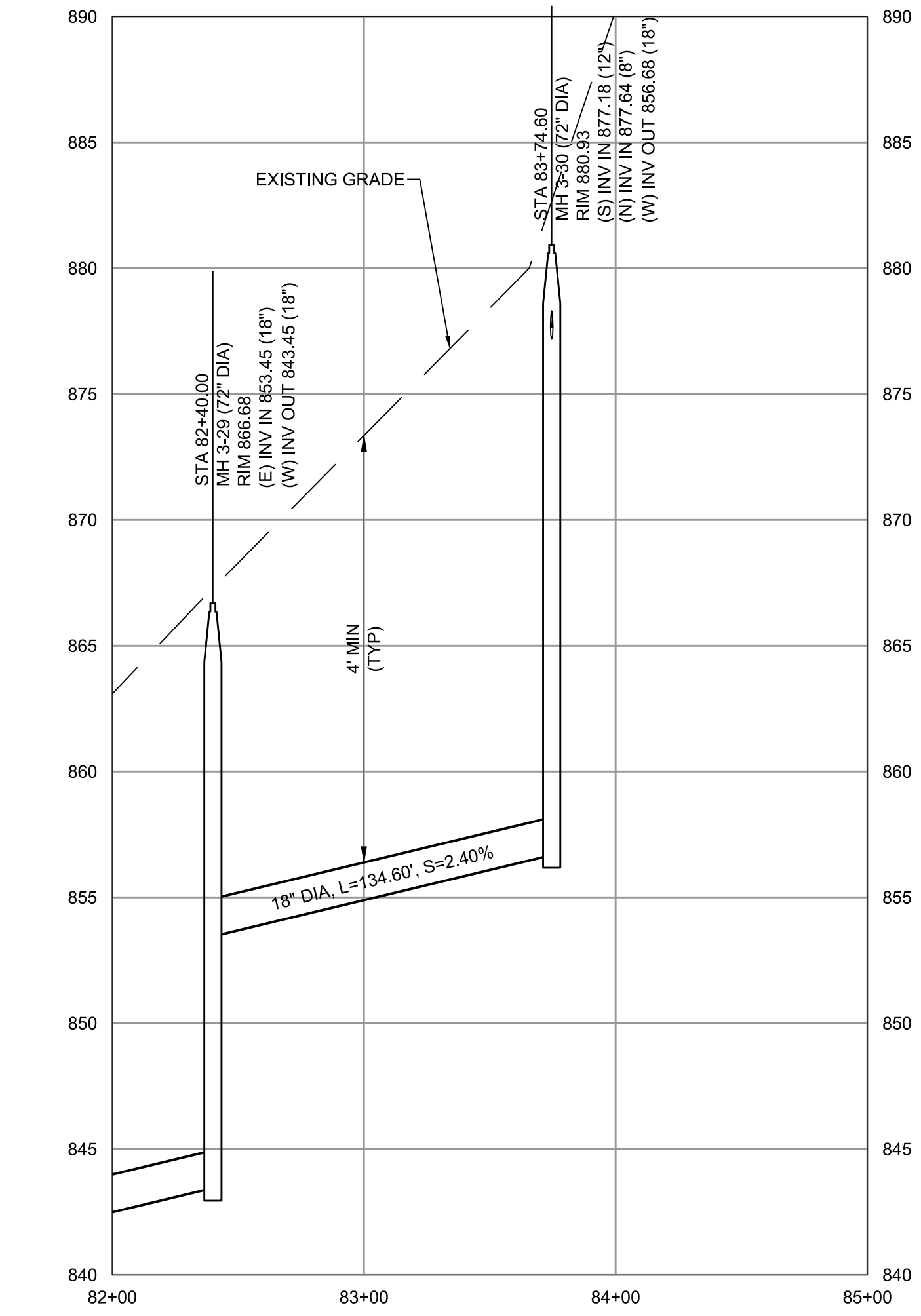
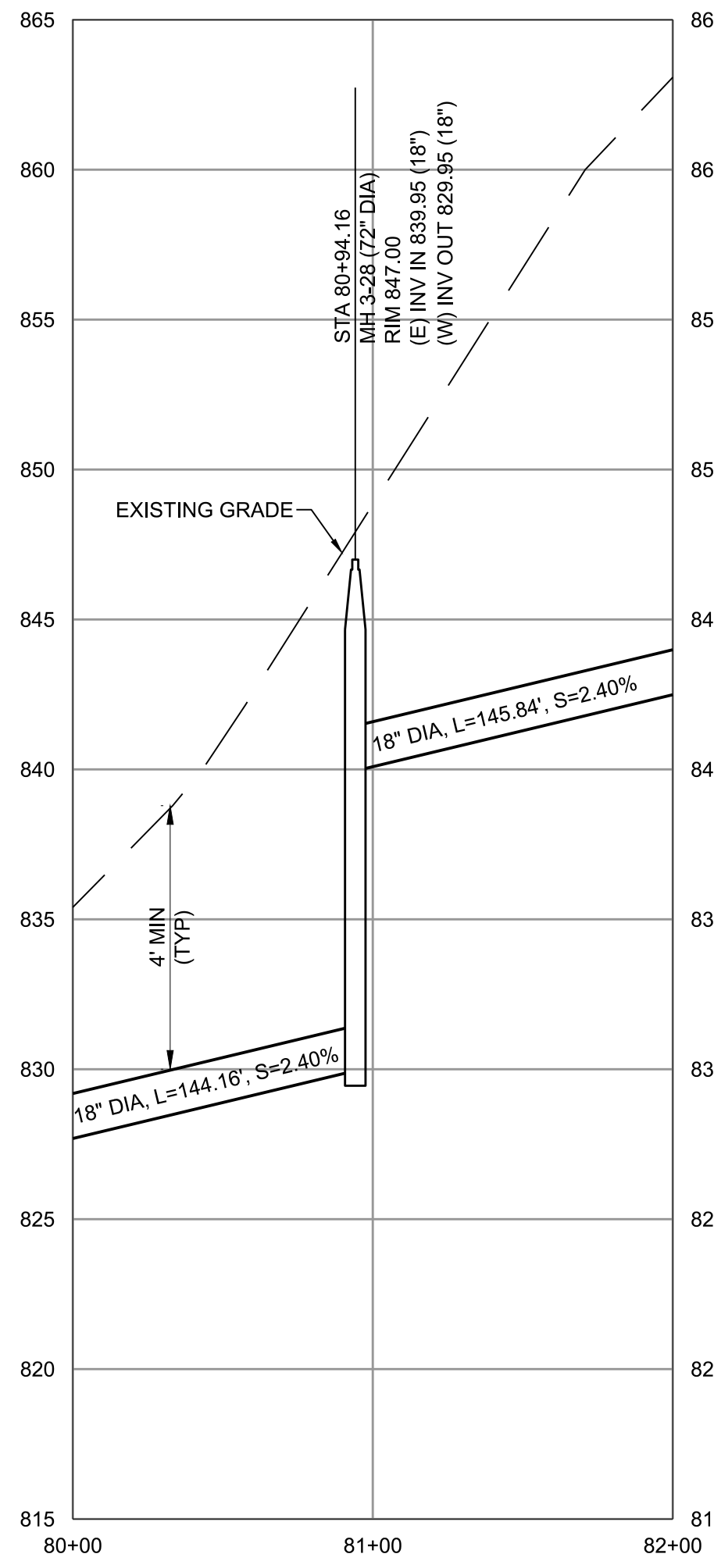
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 PLOT: 000
 D:\1000

SUBCONSULTANT:



MATCH LINE - STA 80+00
FOR CONTINUATION SEE DWG C-03-047

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

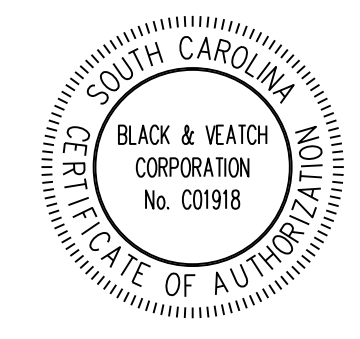
SEGMENT 3 GRAVITY SEWER

CIVIL

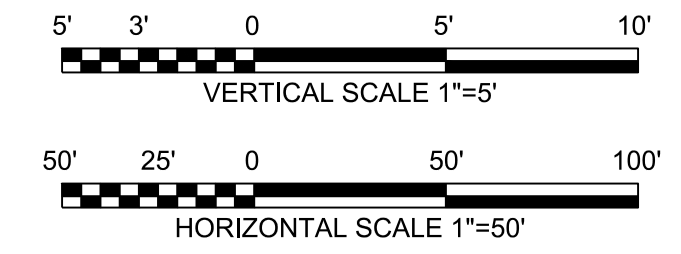
PLAN AND PROFILE
STA 80+00 TO STA
83+74.60

C-03-048

XXX
OF
XXX



SUBCONSULTANT:



MATCH LINE - STA 10+00
FOR CONTINUATION SEE DWG C-04-050



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

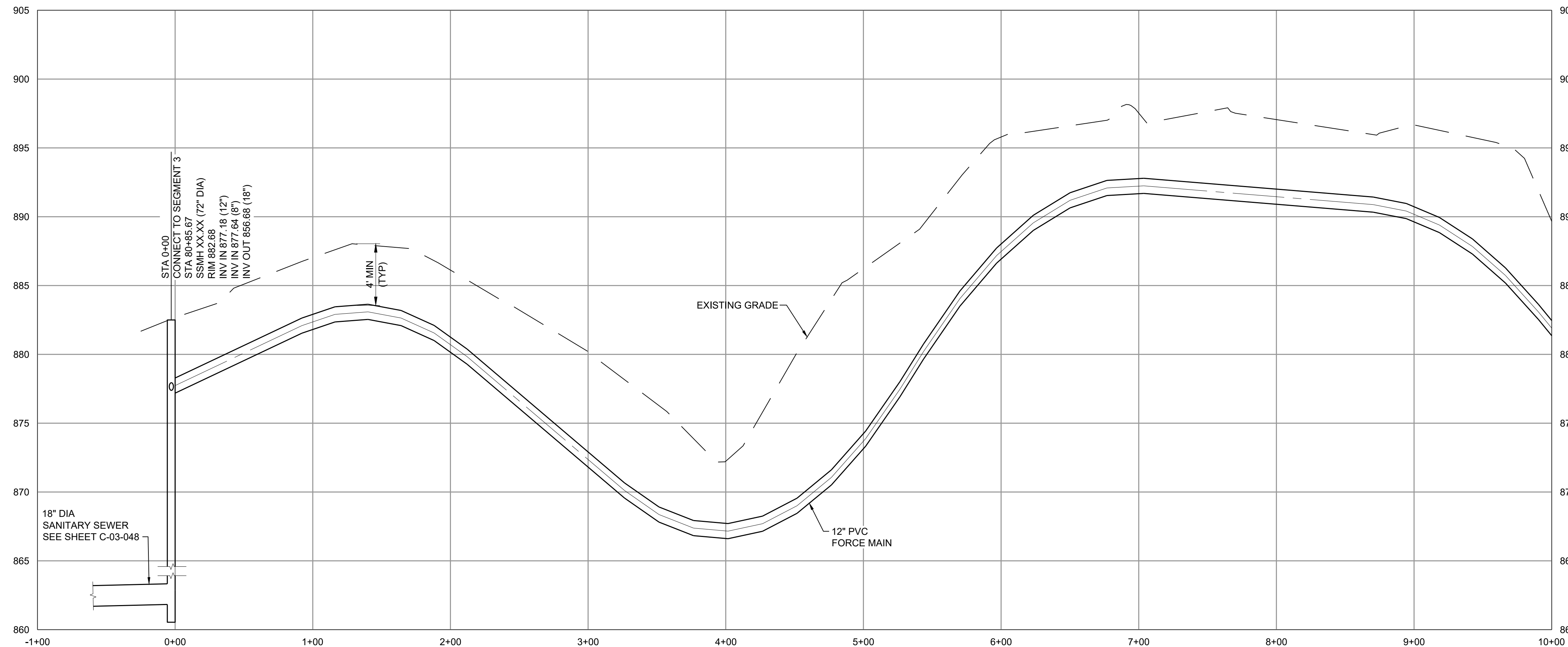
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 0+00 TO STA 10+00

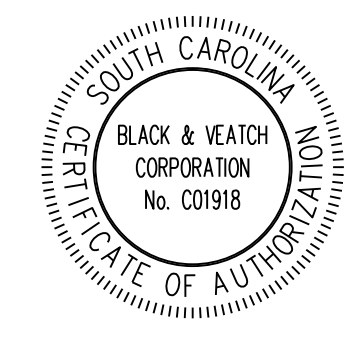
C-04-049

XXX
OF
XXX



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FDI:000
D11000

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

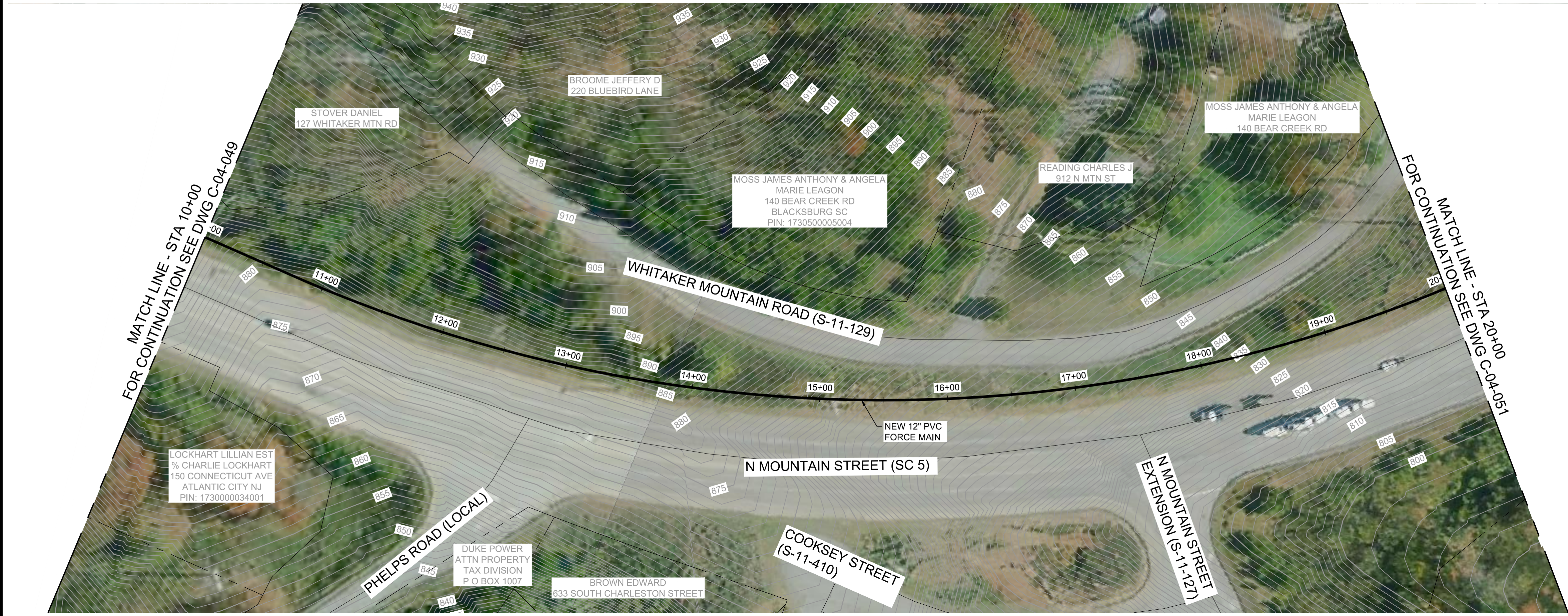
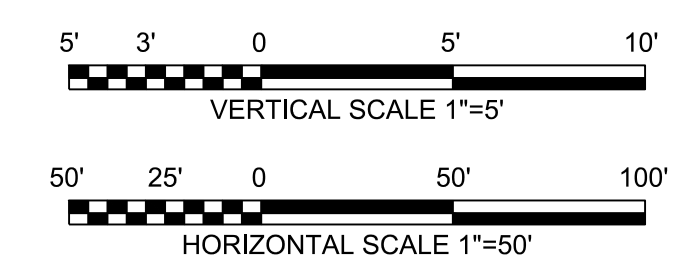
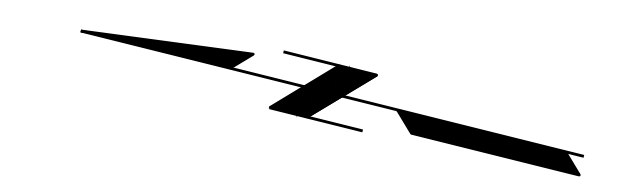
SEGMENT 4
FORCE MAIN

CIVIL

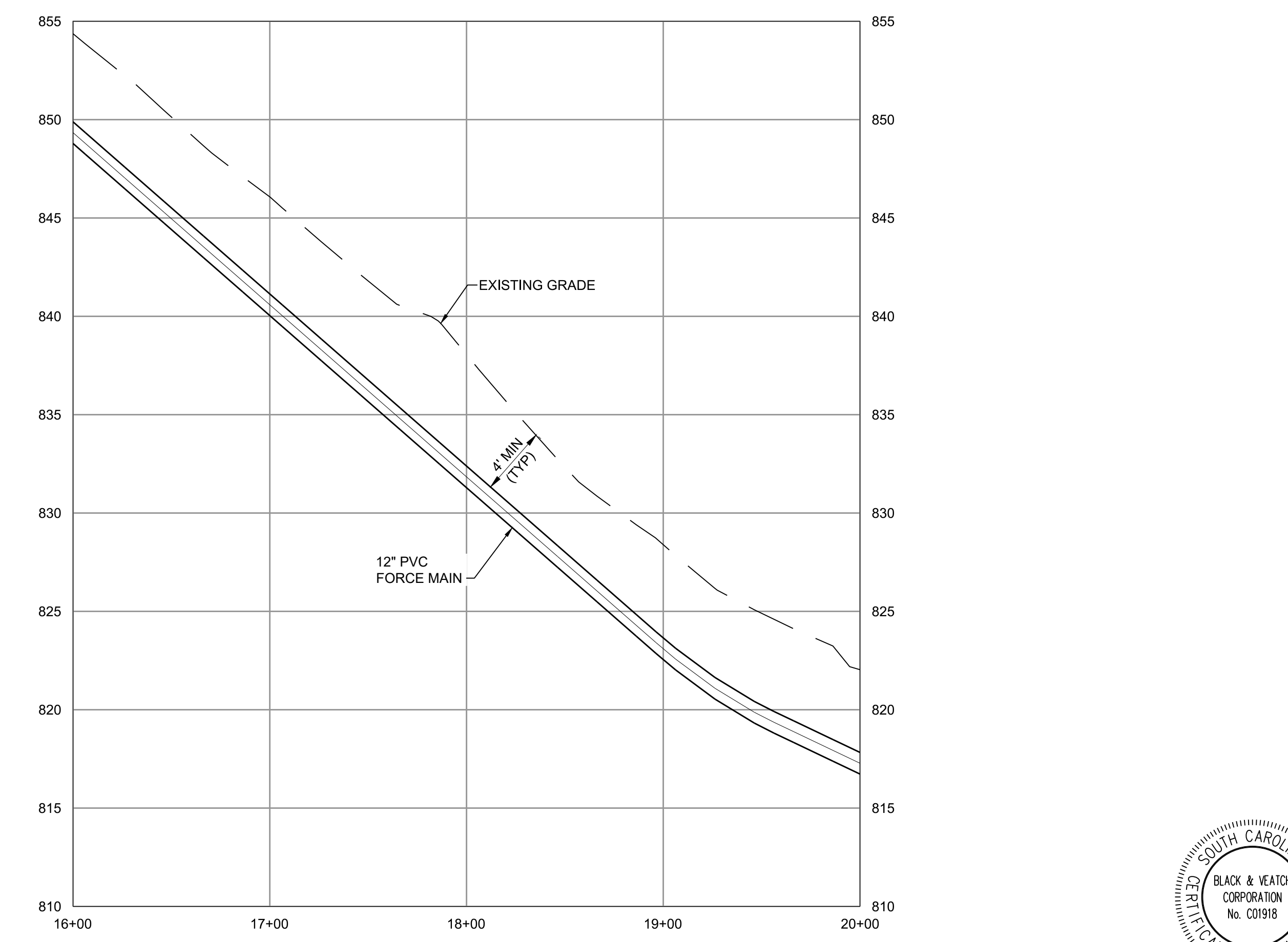
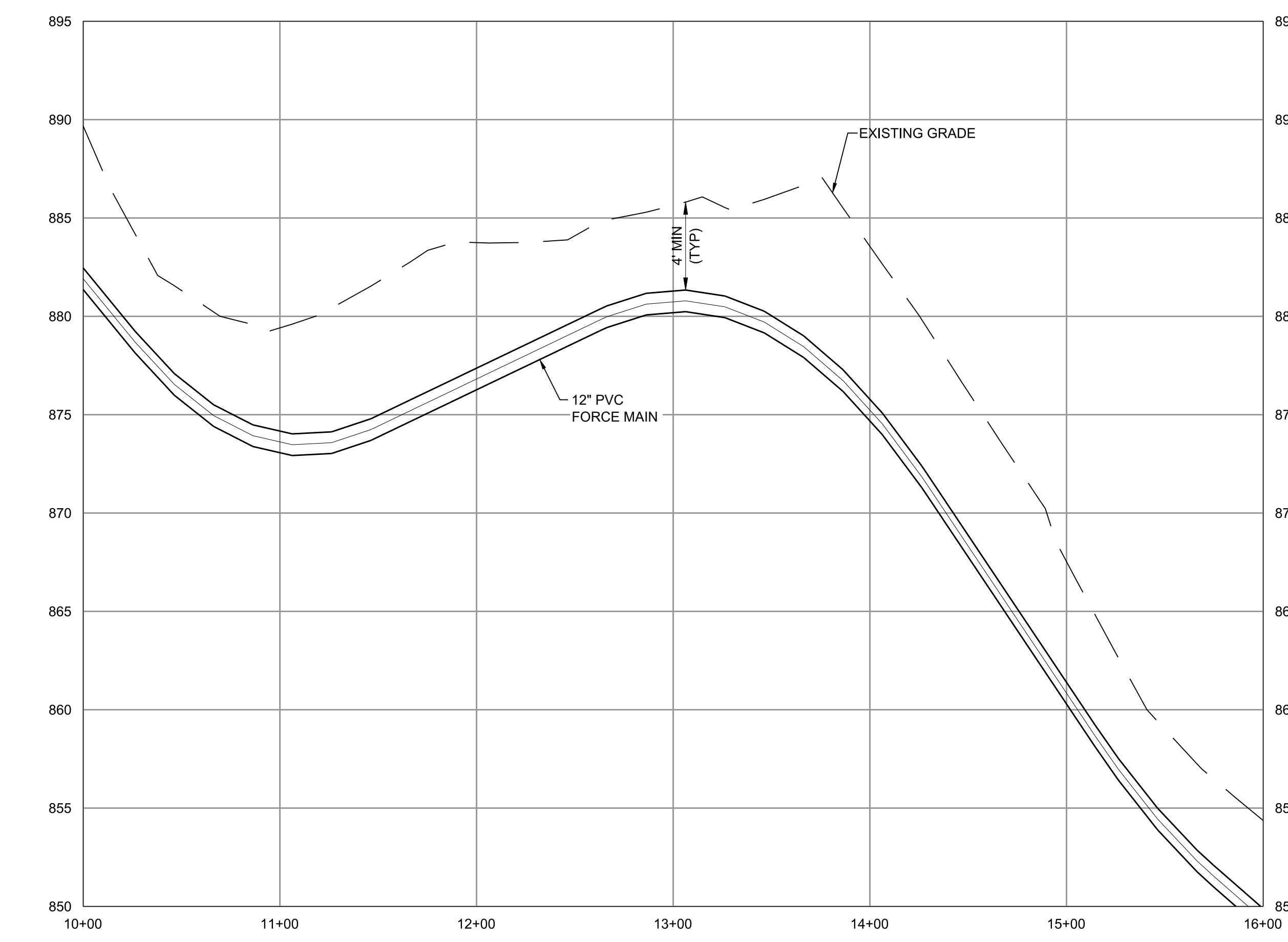
PLAN AND PROFILE
STA 10+00 TO STA 20+00

C-04-050

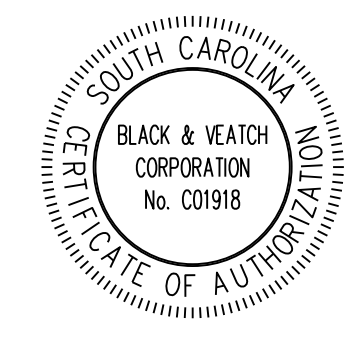
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OF
XXX



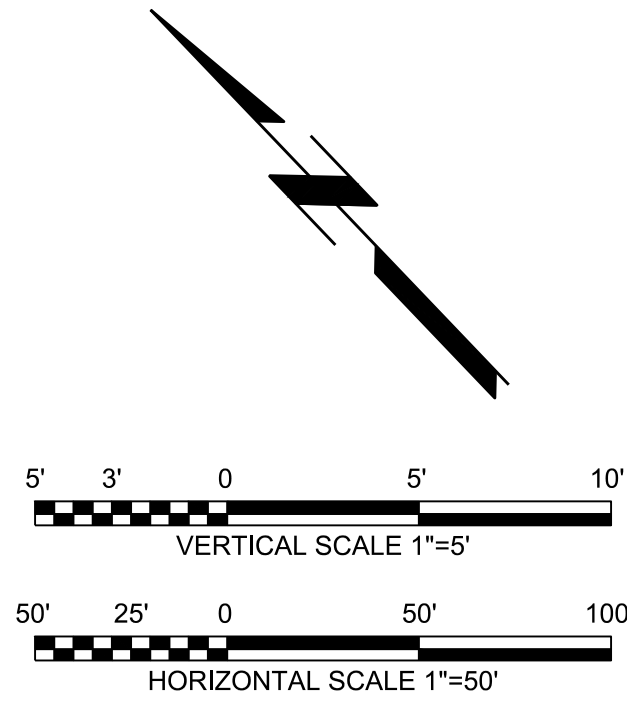
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PLOTTED: 5/23/2022 12:24:25 PM
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 PLOT: 011000



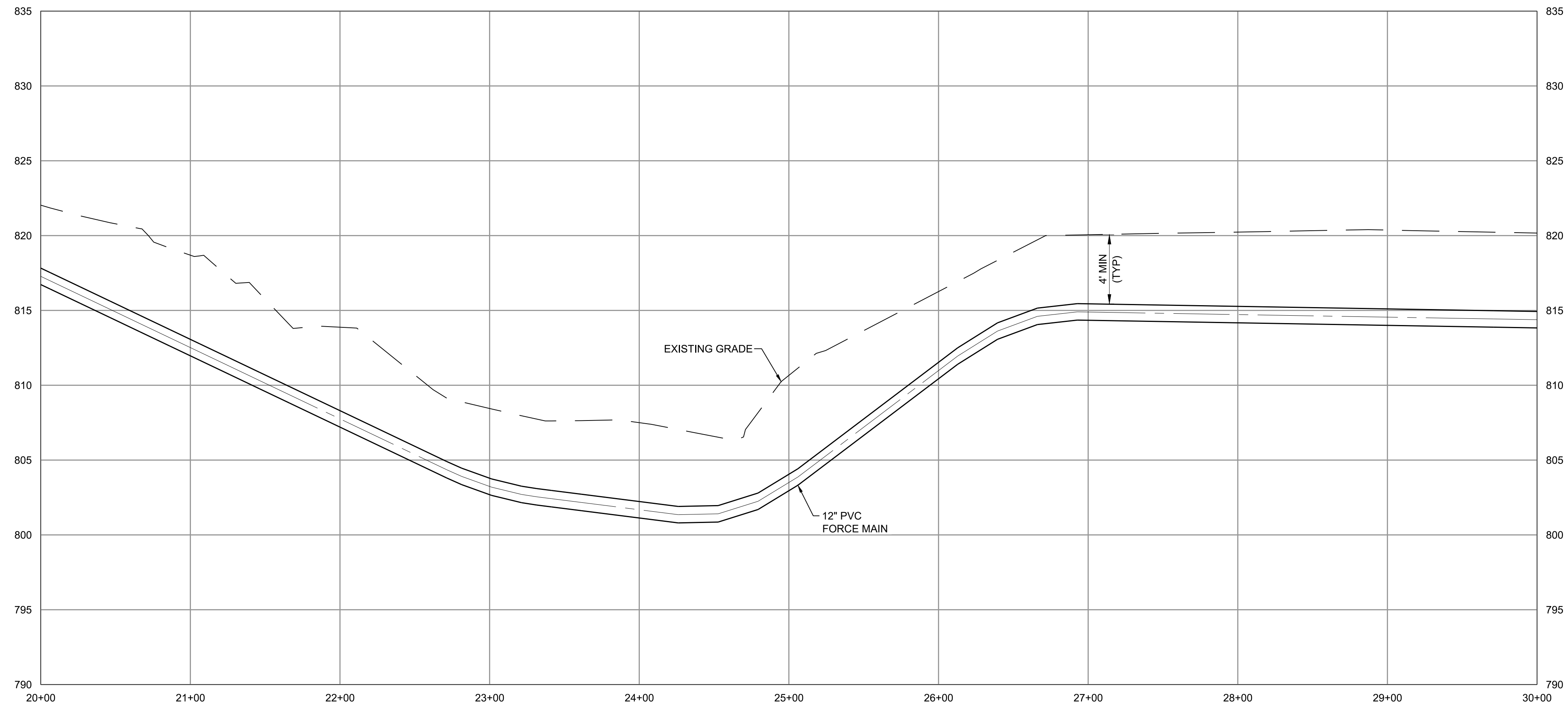
SUBCONSULTANT:



MATCH LINE - STA 20+00
FOR CONTINUATION SEE DWG C-04-050

MATCH LINE - STA 30+00
FOR CONTINUATION SEE DWG C-04-052

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 20+00 TO STA 30+00

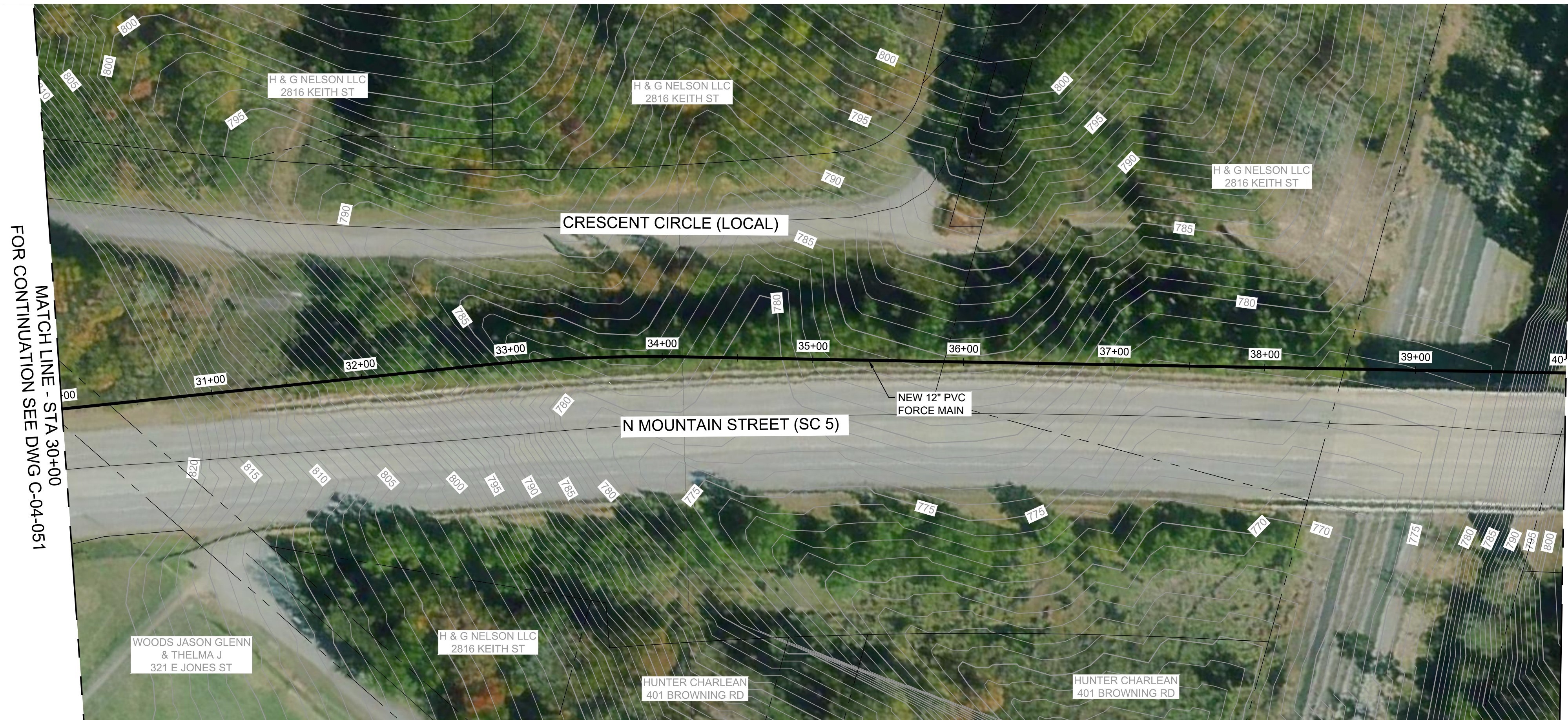
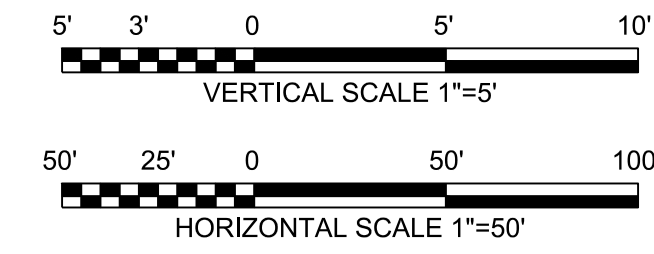
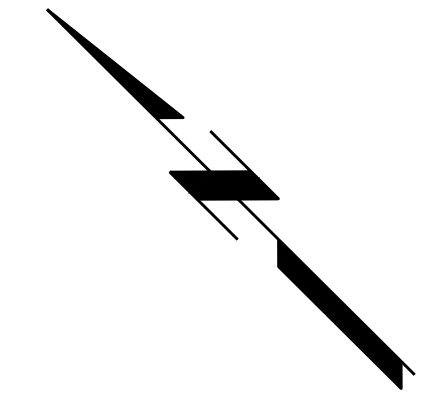
C-04-051

XXX
OF
XXX

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FDI:000
D11000

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

SUBCONSULTANT:



MATCH LINE - STA 30+00
FOR CONTINUATION SEE DWG C-04-051

MATCH LINE - STA 40+00
FOR CONTINUATION SEE DWG C-04-053

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VOLUME 2 :
COLLECTIONS

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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

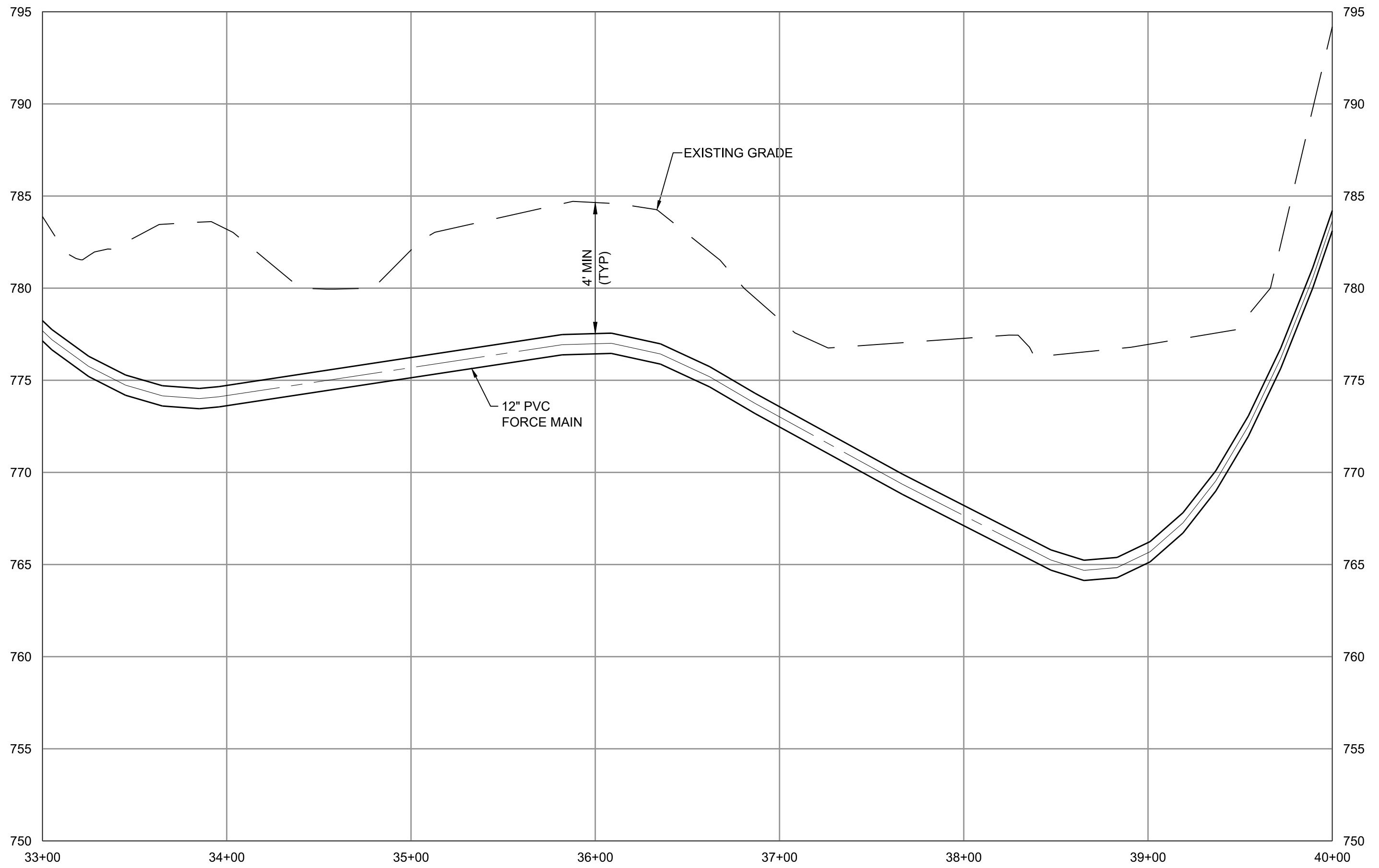
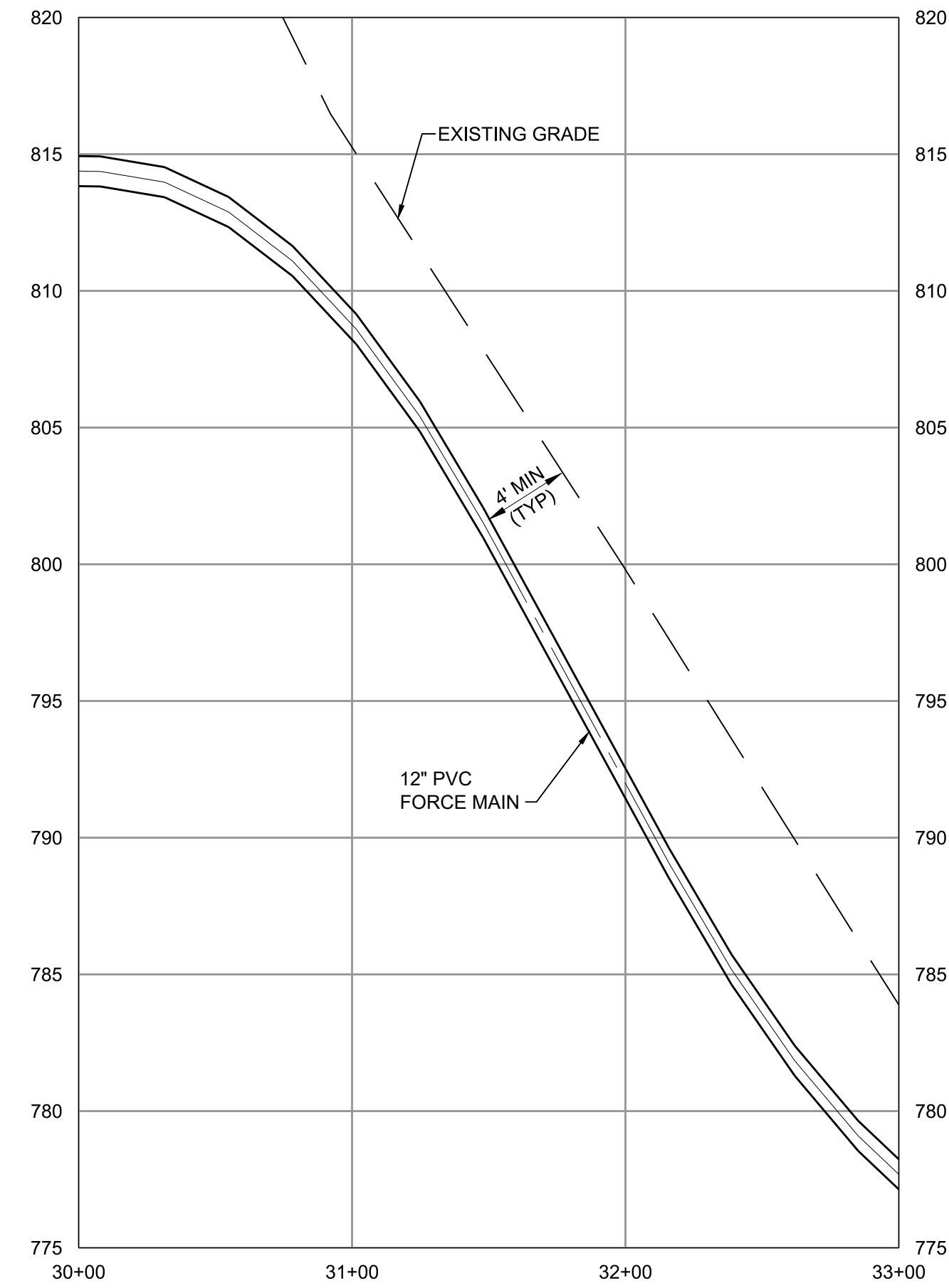
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 30+00 TO STA 40+00

C-04-052

XXX
OF
XXX

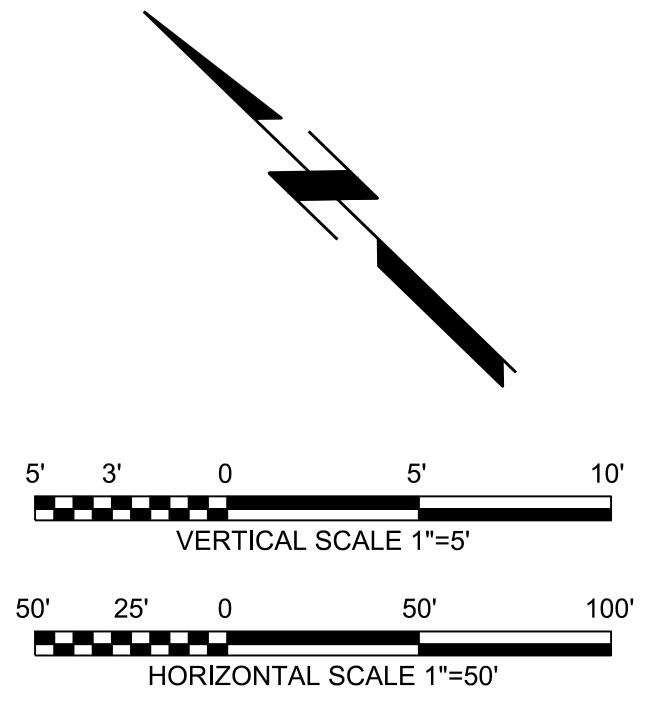


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FDI:000
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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



SUBCONSULTANT:



GAFFNEY BOARD OF PUBLIC WORKS

PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 40+00 TO STA 50+00

C-04-053

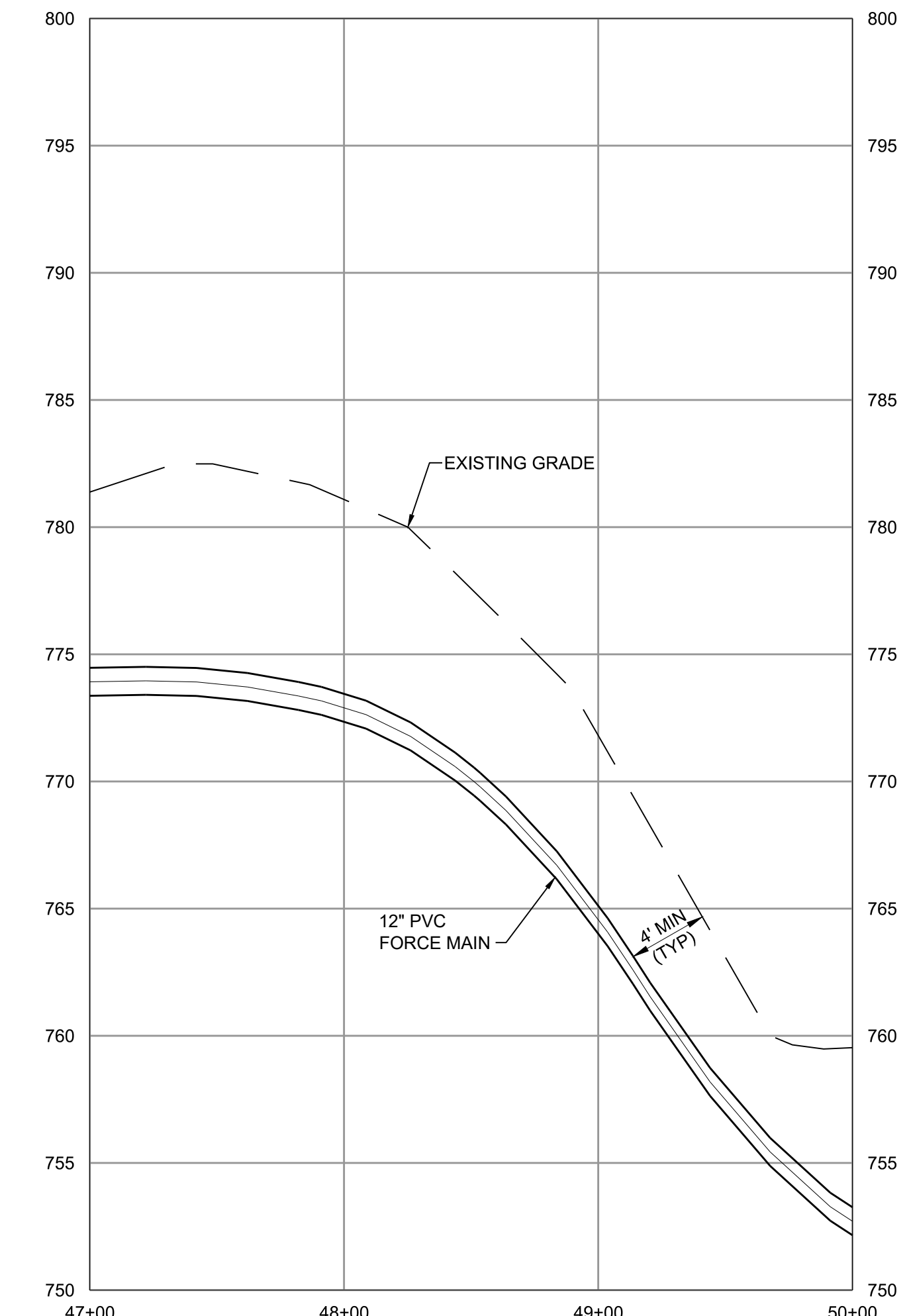
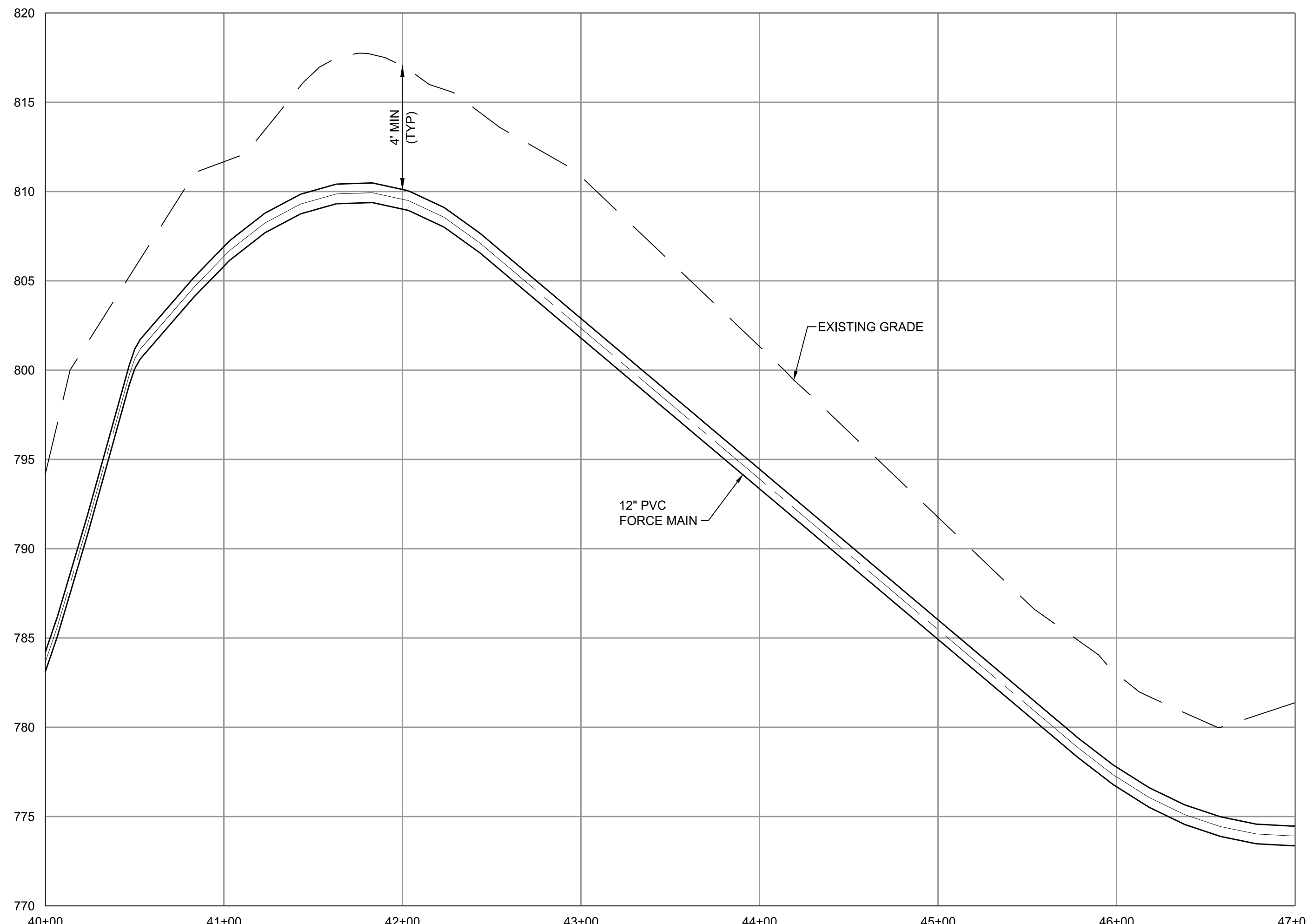
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OF
XXX



MATCH LINE - STA 40+00
FOR CONTINUATION SEE DWG C-04-052

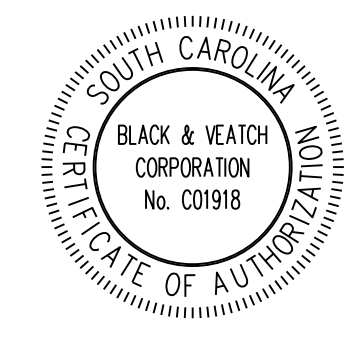
MATCH LINE - STA 50+00
FOR CONTINUATION SEE DWG C-04-054

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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 12:28:32 PM
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FDI:000
D11000



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

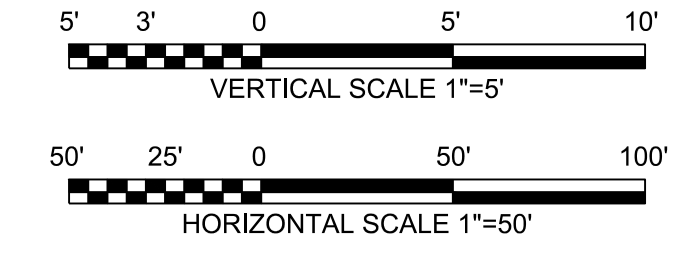
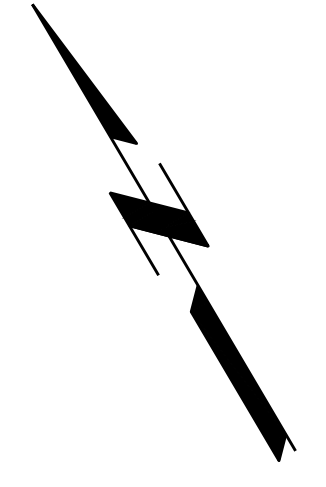
SEGMENT 4
FORCE MAIN

CIVIL

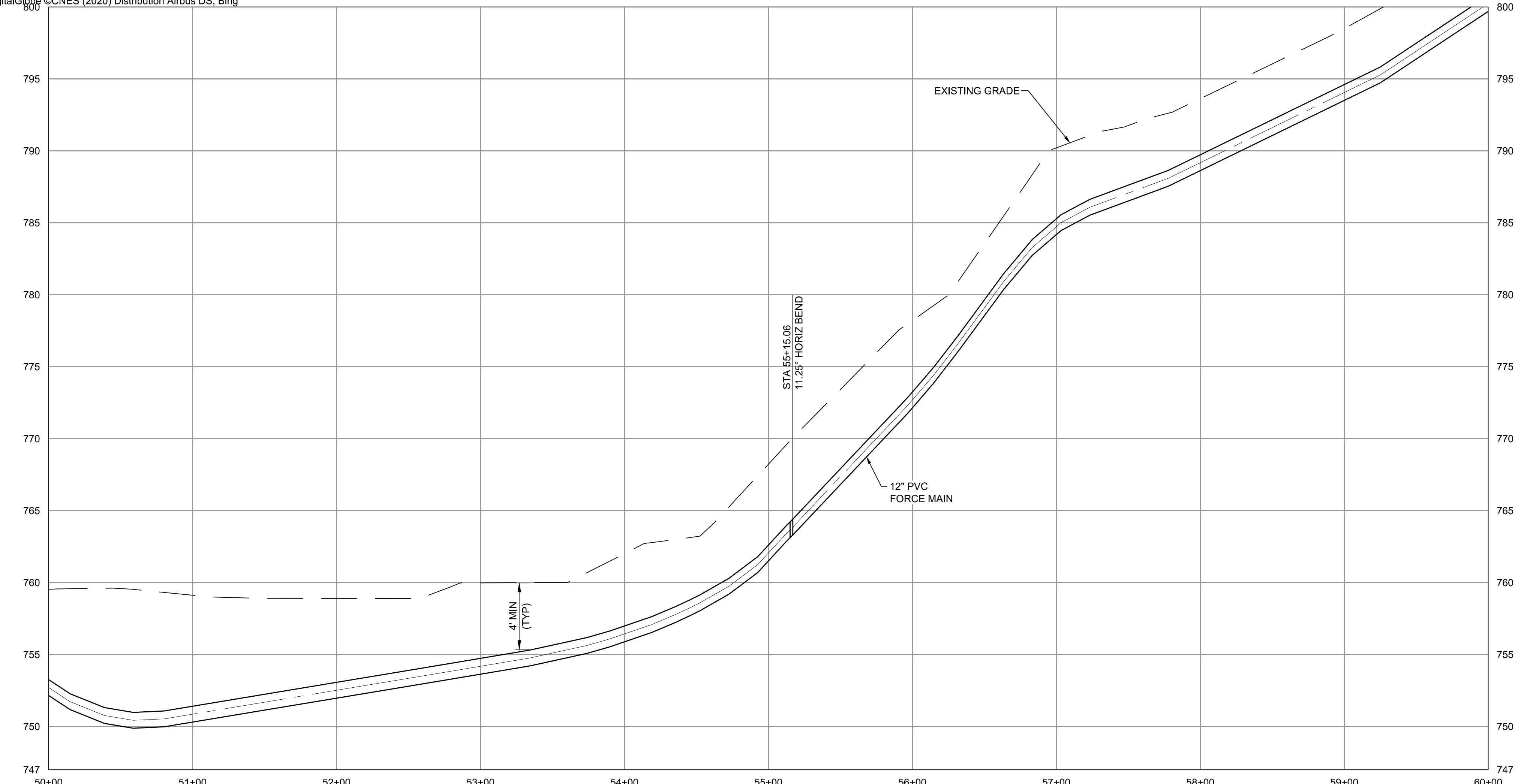
PLAN AND PROFILE
STA 50+00 TO STA 60+00

C-04-054

XXX
OF
XXX

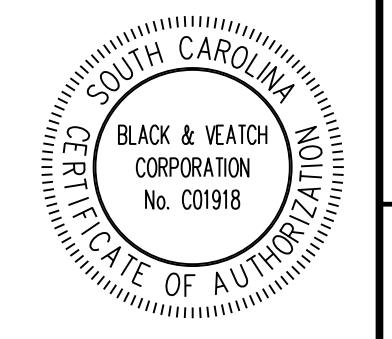


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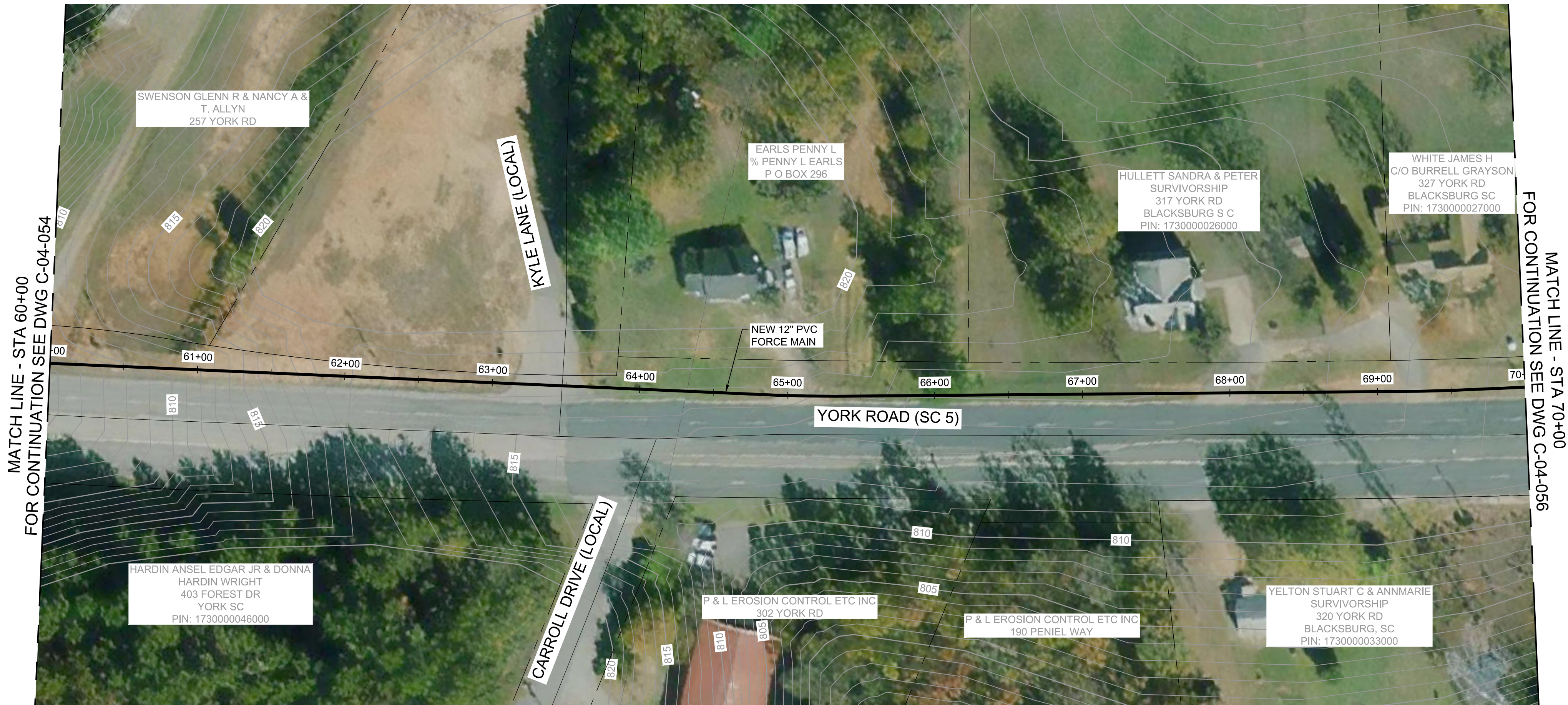
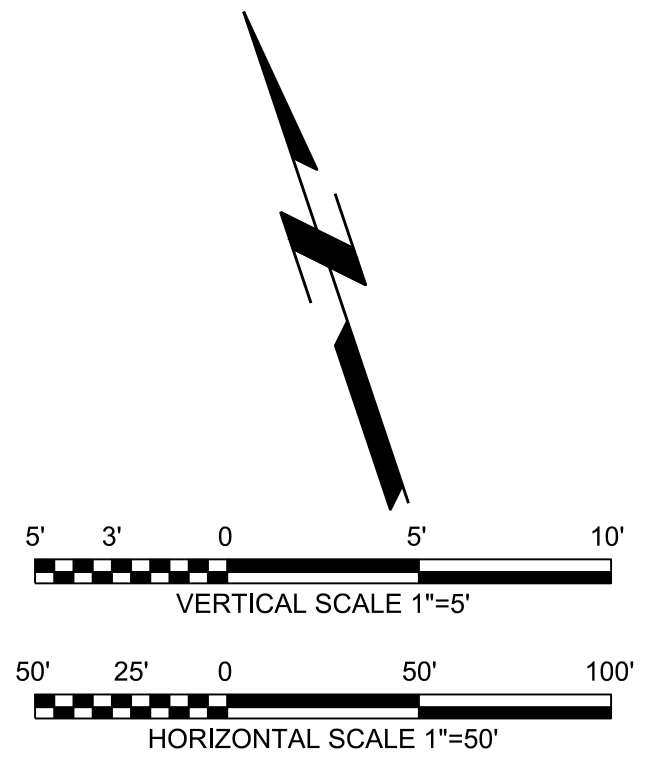


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 PLOT: 011000



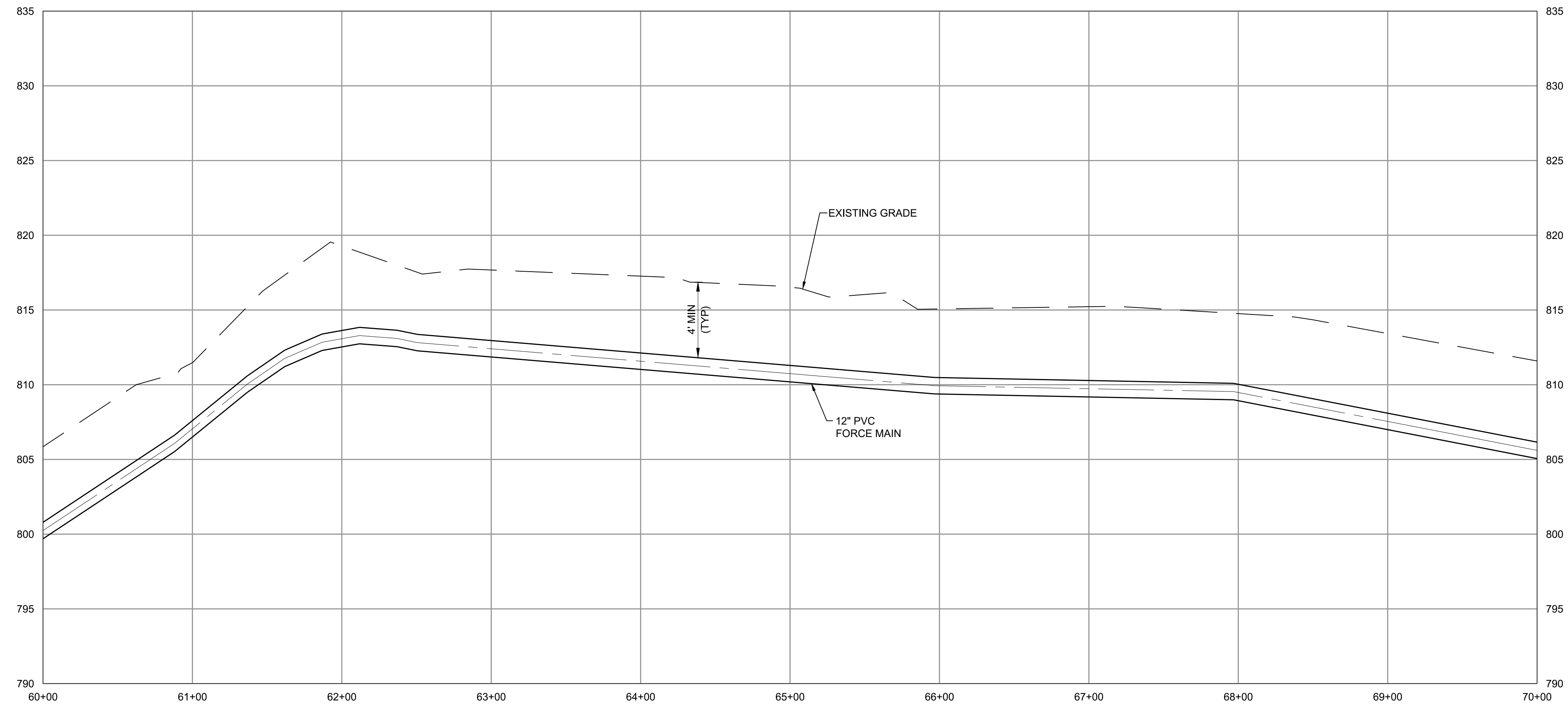
SUBCONSULTANT:



MATCH LINE - STA 60+00
FOR CONTINUATION SEE DWG C-04-054

MATCH LINE - STA 70+00
FOR CONTINUATION SEE DWG C-04-056

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 4
FORCE MAIN

CIVIL

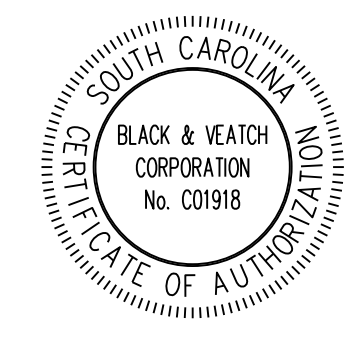
PLAN AND PROFILE
STA 60+00 TO STA 70+00

C-04-055

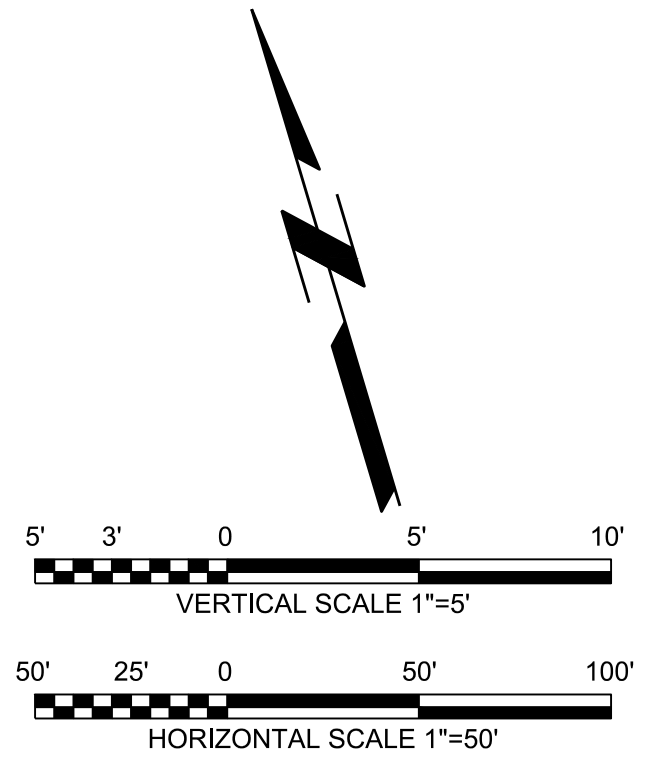
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OF
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FDI:000
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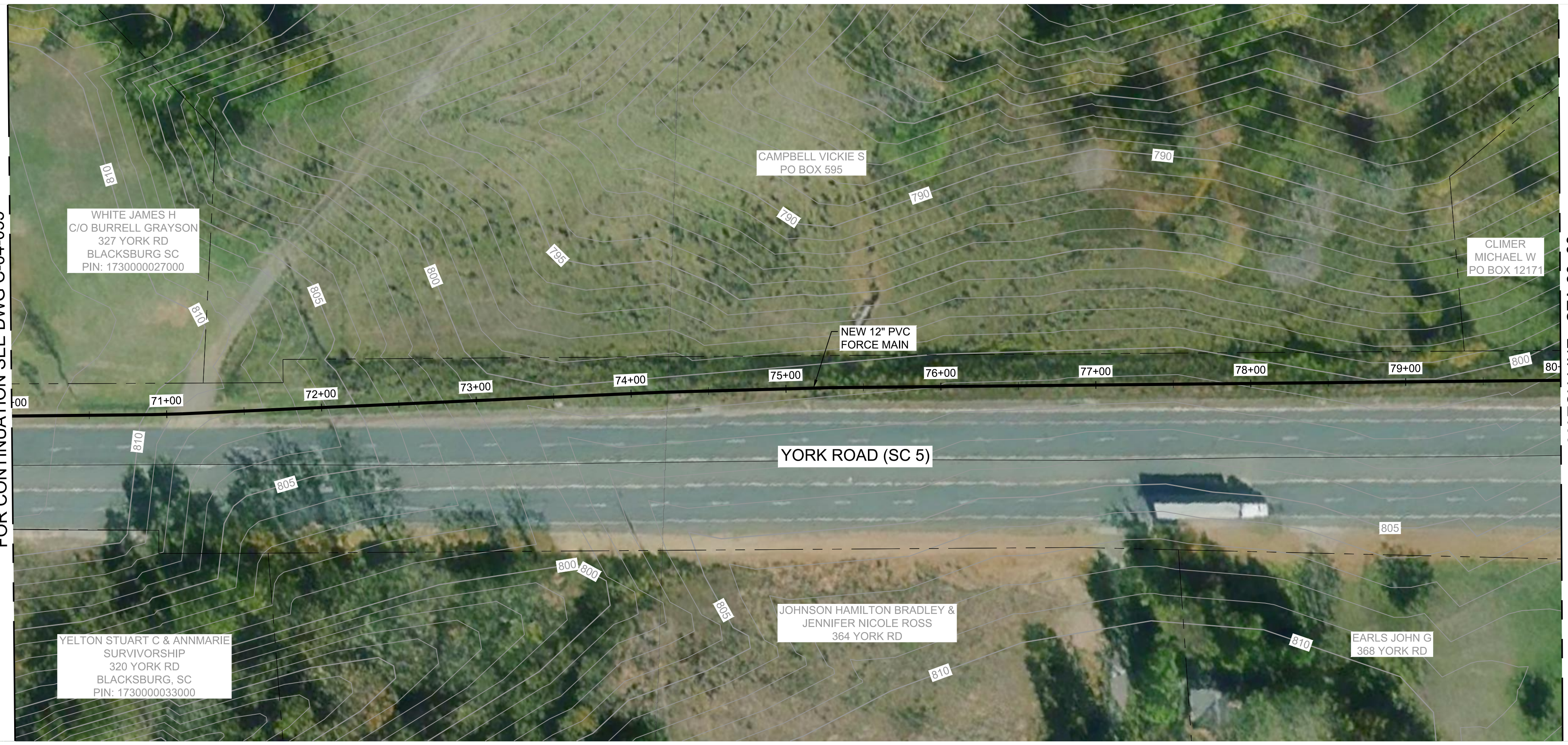
(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



SUBCONSULTANT:



MATCH LINE - STA 70+00
FOR CONTINUATION SEE DWG C-04-055



MATCH LINE - STA 80+00
FOR CONTINUATION SEE DWG C-04-057

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

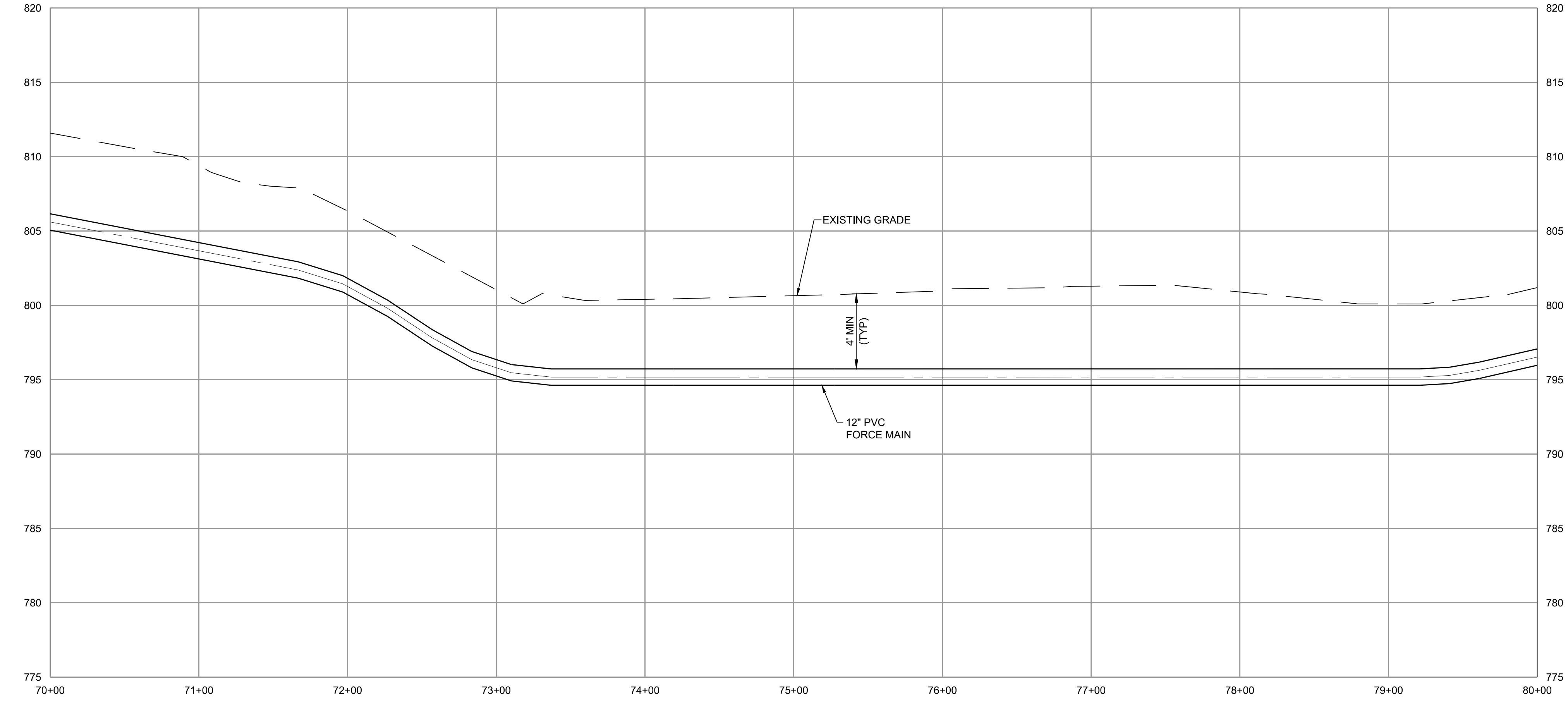
SEGMENT 4
FORCE MAIN

CIVIL

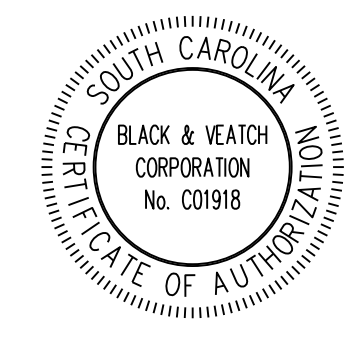
PLAN AND PROFILE
STA 70+00 TO STA 80+00

C-04-056

XXX
OF
XXX

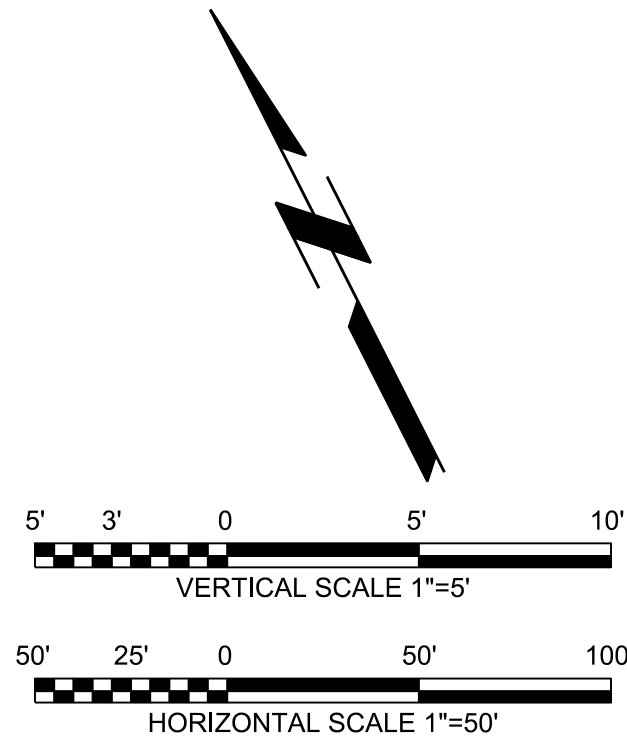


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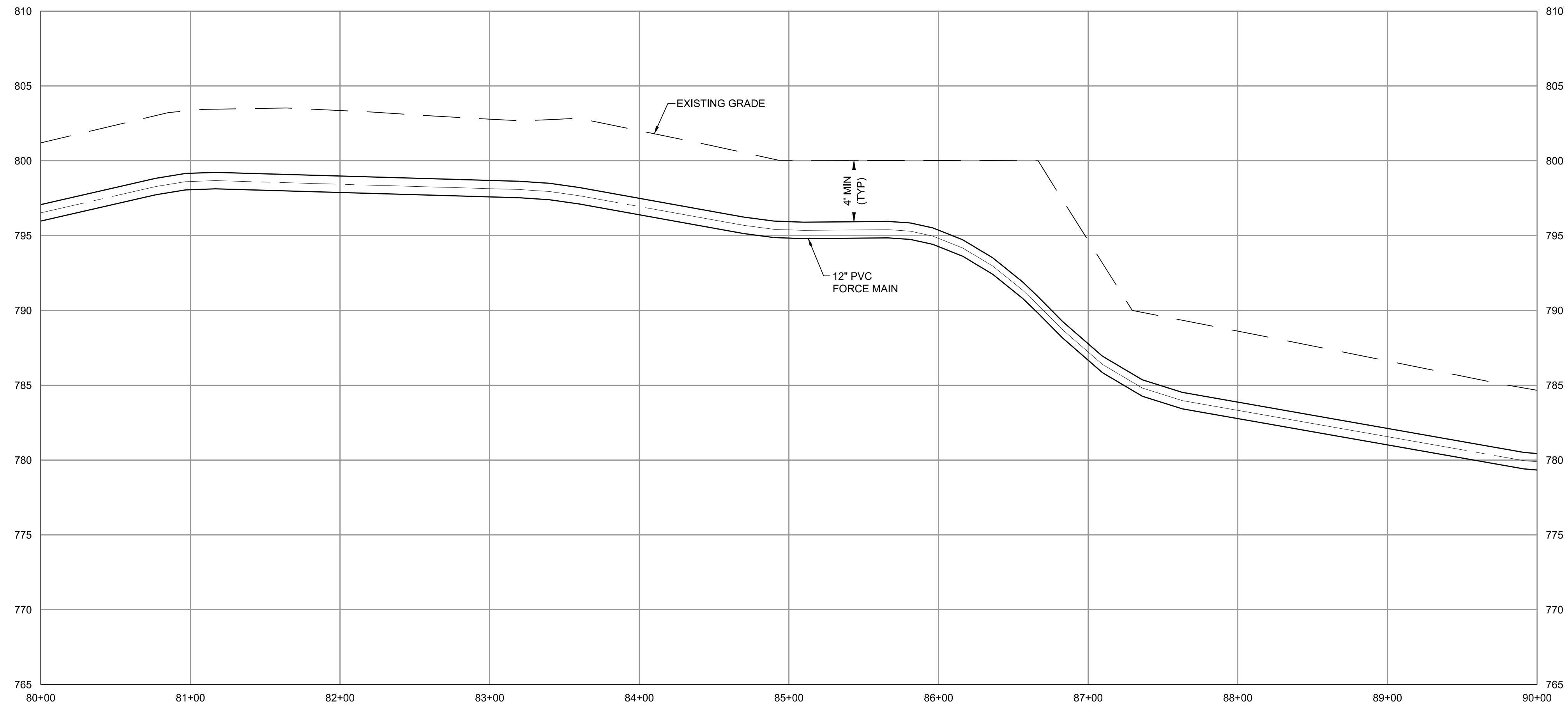


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FD1000
D11000

SUBCONSULTANT:



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
DESIGNED: LDP	
DETAILED: FLL	
CHECKED: RTC	
APPROVED: RTC	
DATE: JUNE 2022	
PROJECT NO.: 410381	

SEGMENT 4
FORCE MAIN

CIVIL

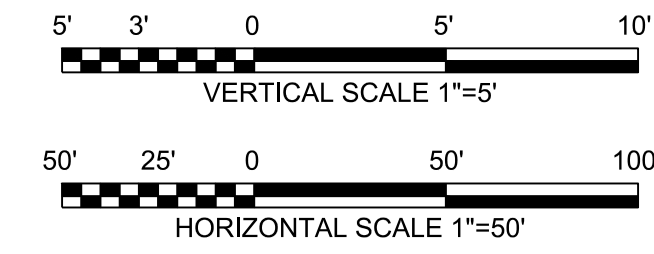
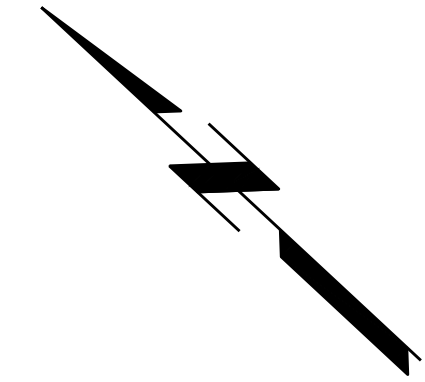
PLAN AND PROFILE
STA 80+00 TO STA 90+00

C-04-057

XXX
OF
XXX

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FDI1000
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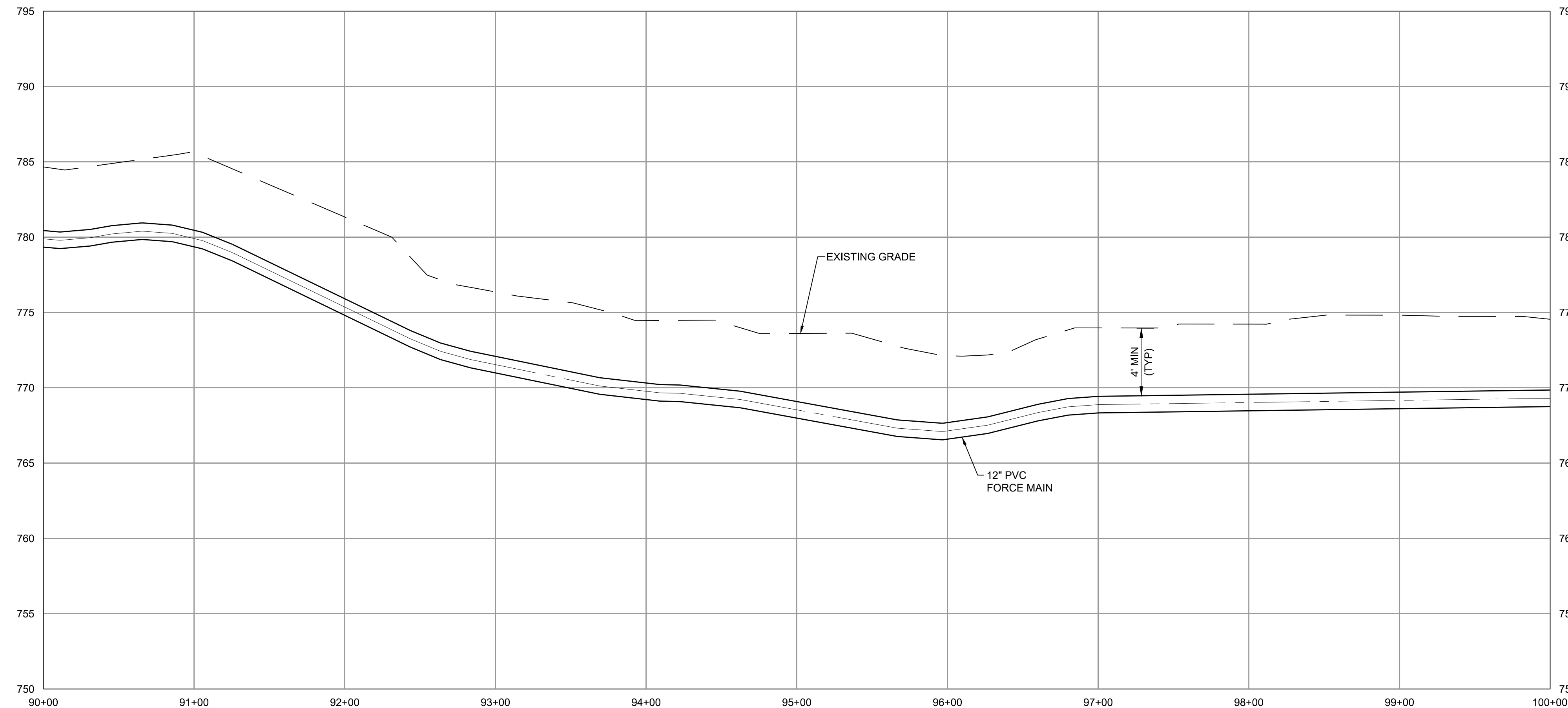
SUBCONSULTANT:



MATCH LINE - STA 90+00
FOR CONTINUATION SEE DWG C-04-057

MATCH LINE - STA 100+00
FOR CONTINUATION SEE DWG C-04-059

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

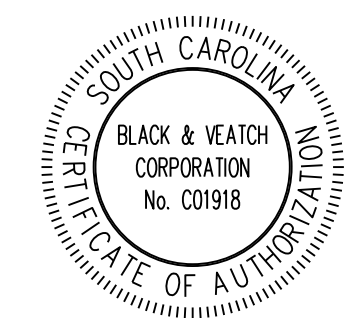
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 90+00 TO STA 100+00

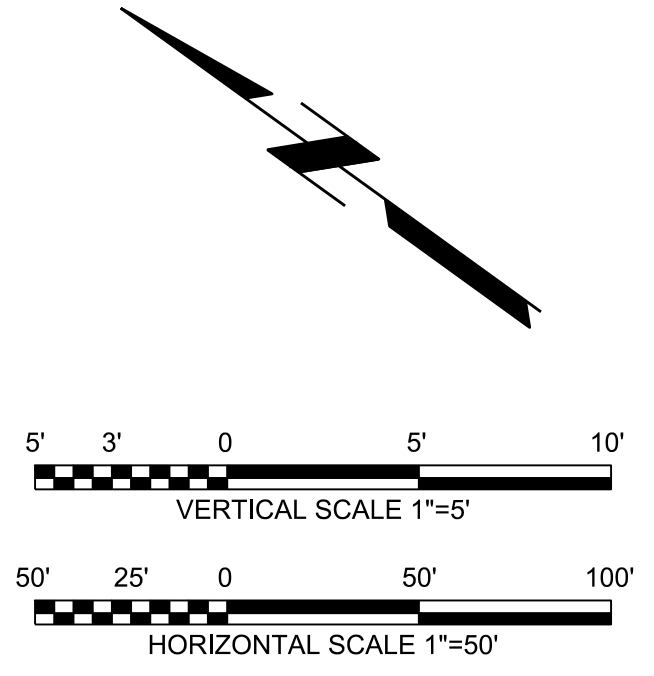
C-04-058

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OF
XXX



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FD1000
D11000

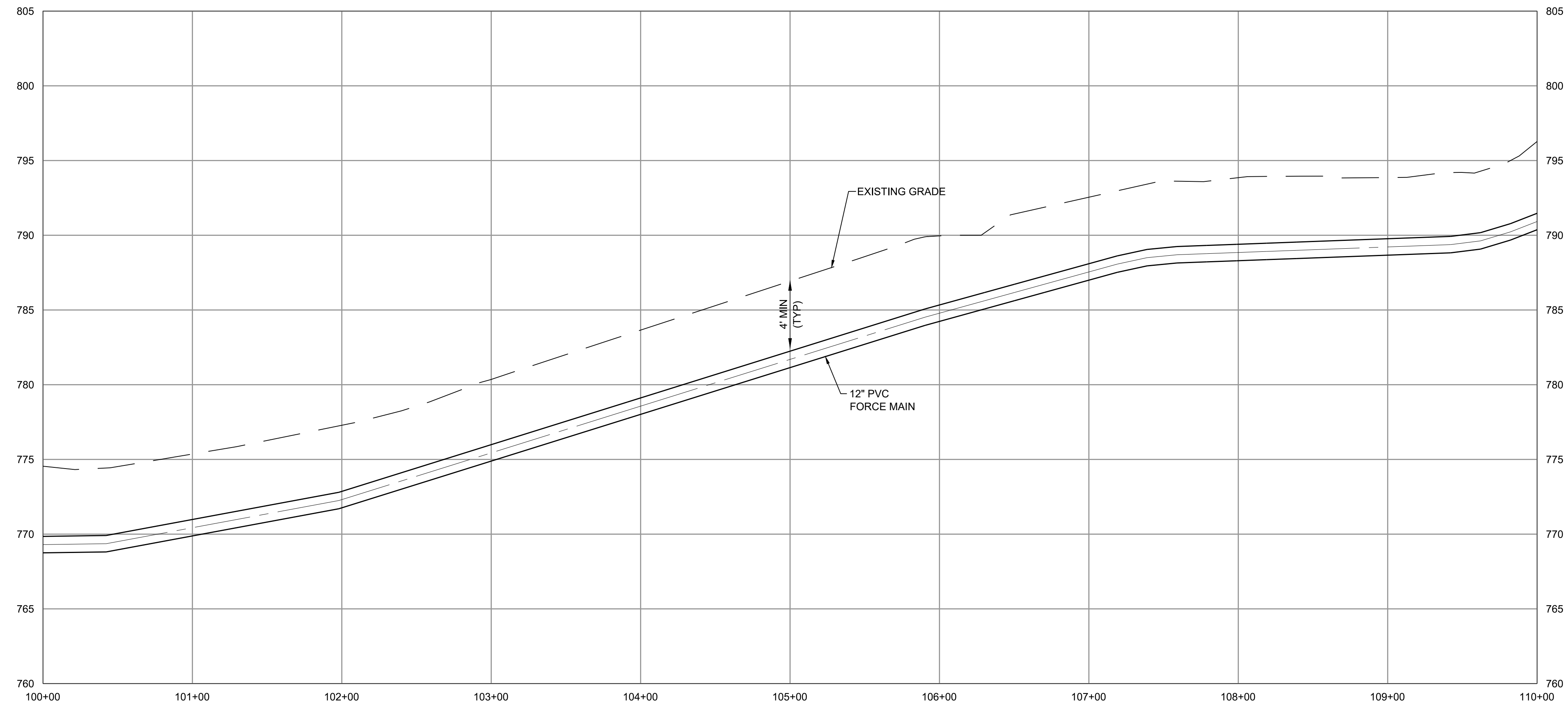
SUBCONSULTANT:



MATCH LINE - STA 100+00
FOR CONTINUATION SEE DWG C-04-058

MATCH LINE - STA 110+00
FOR CONTINUATION SEE DWG C-04-060

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

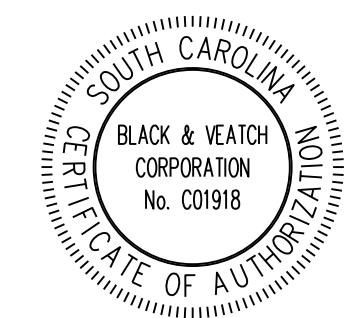
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 100+00 TO STA 110+00

C-04-059

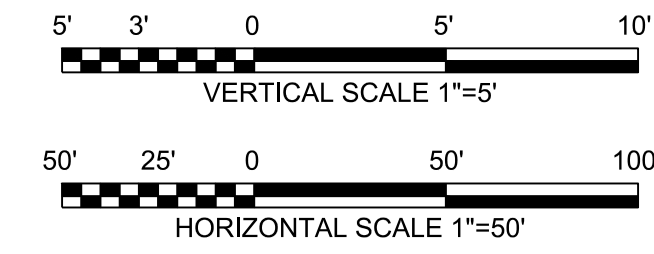
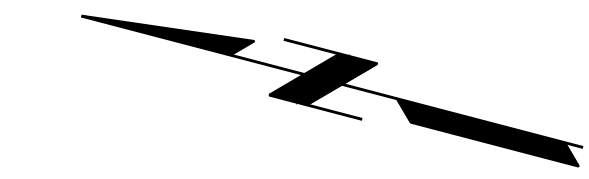
XXX
OF
XXX



(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 12:36:48 PM
FILE: C:\PW\WORKING\B\W_AMERICAS_201562805\410381-SEG4-FM-PP-SHET.DWG
FDI:000
D11000

SUBCONSULTANT:



MATCH LINE - STA 110+00
FOR CONTINUATION SEE DWG C-04-059

MATCH LINE - STA 120+00
FOR CONTINUATION SEE DWG C-04-061

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

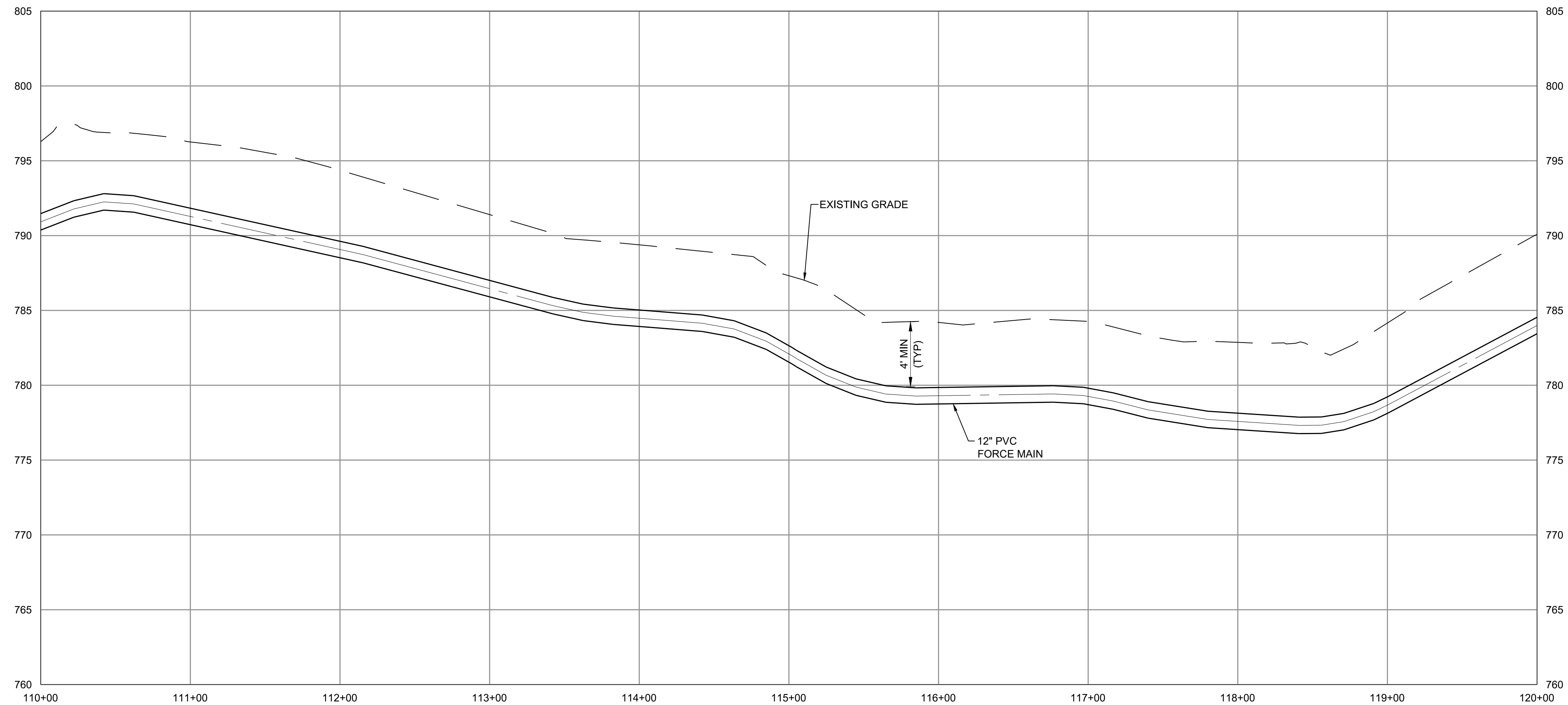
SEGMENT 4
FORCE MAIN

CIVIL

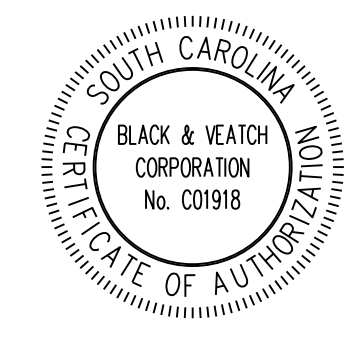
PLAN AND PROFILE
STA 110+00 TO STA 120+00

C-04-060

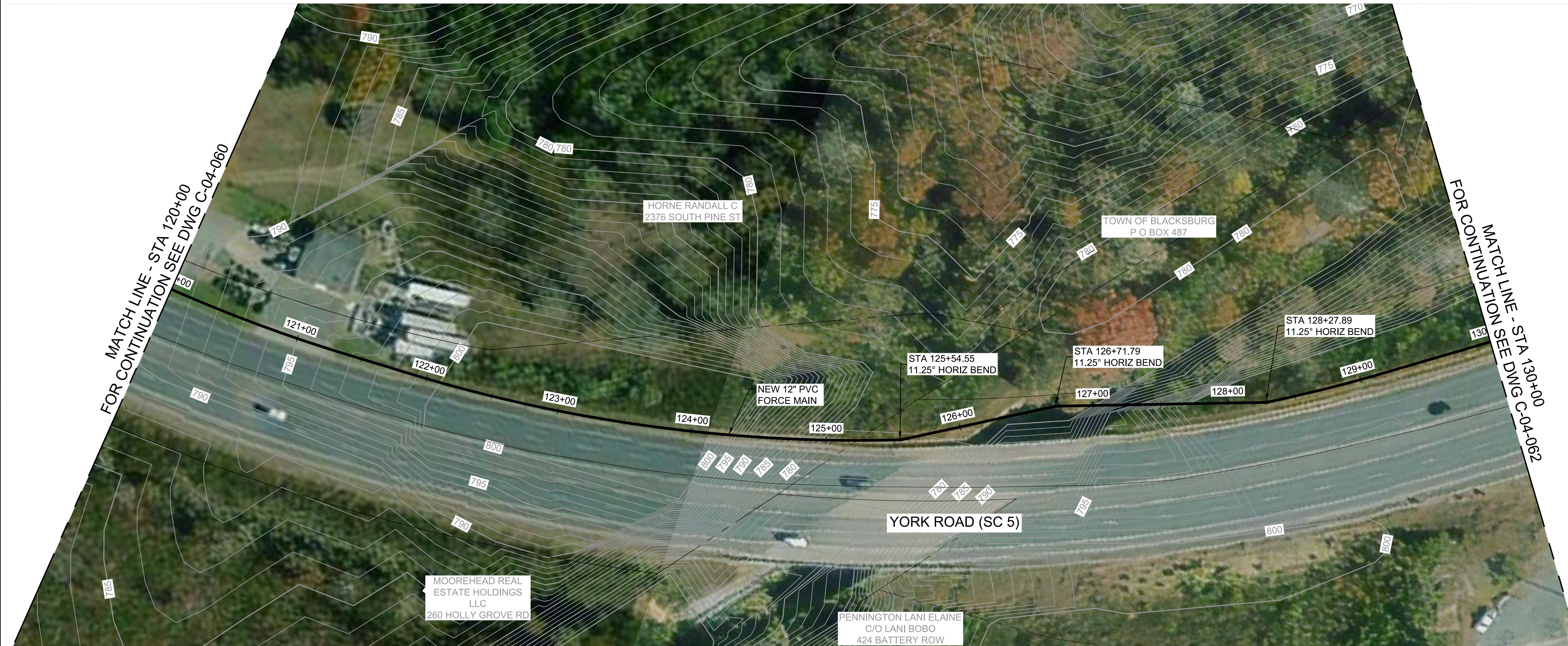
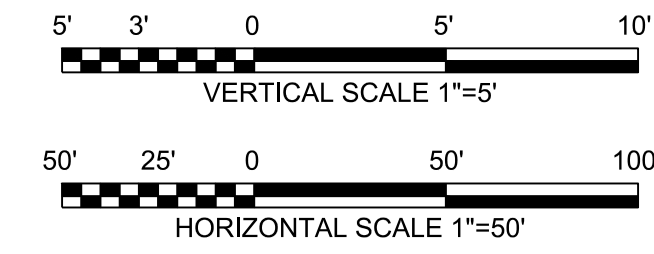
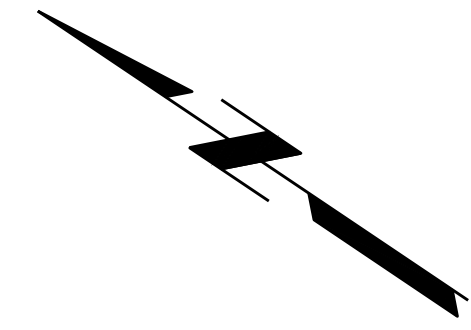
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OF
XXX



PLOTTED: 5/23/2022 12:38:14 PM
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FDI:000
D11000



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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

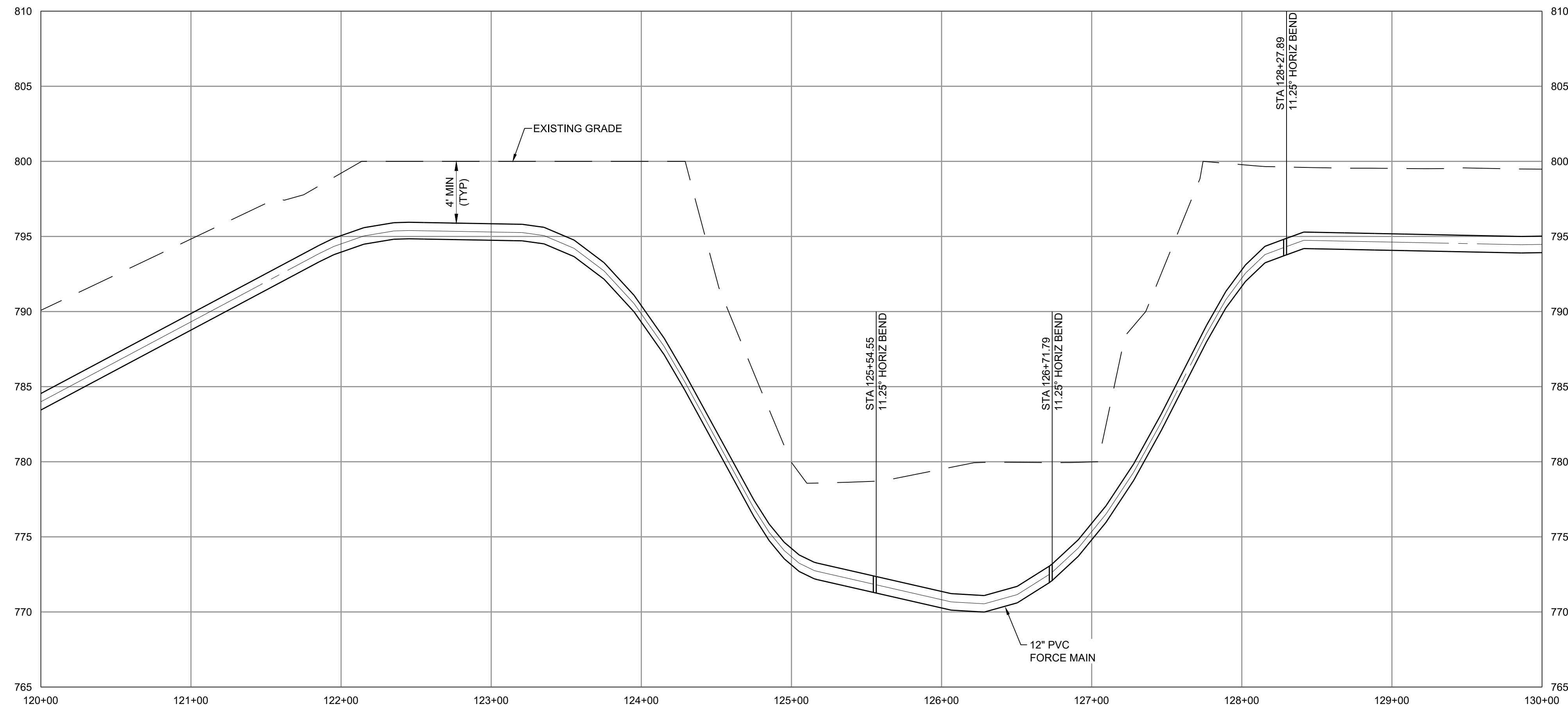
SEGMENT 4
FORCE MAIN

CIVIL

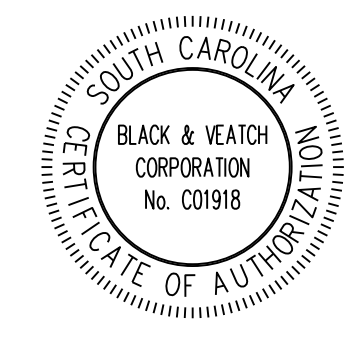
PLAN AND PROFILE
STA 120+00 TO STA 130+00

C-04-061

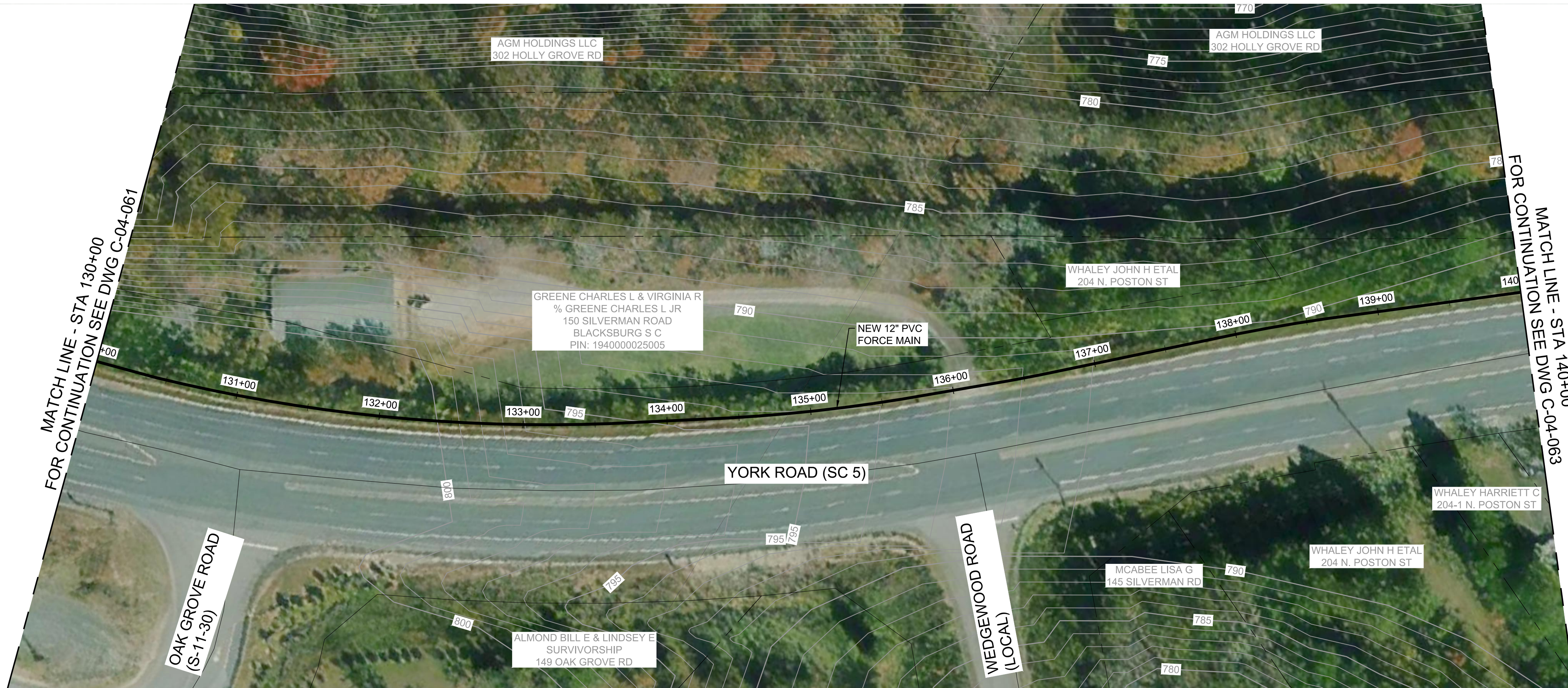
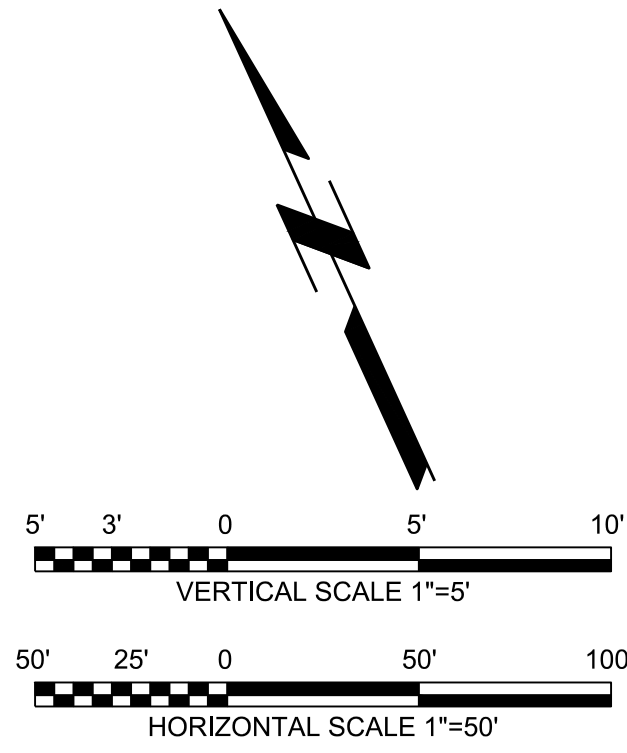
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OF
XXX



PLOTTED: 5/23/2022 12:38:38 PM
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 PLOT: 000
 D:\11000



SUBCONSULTANT:



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

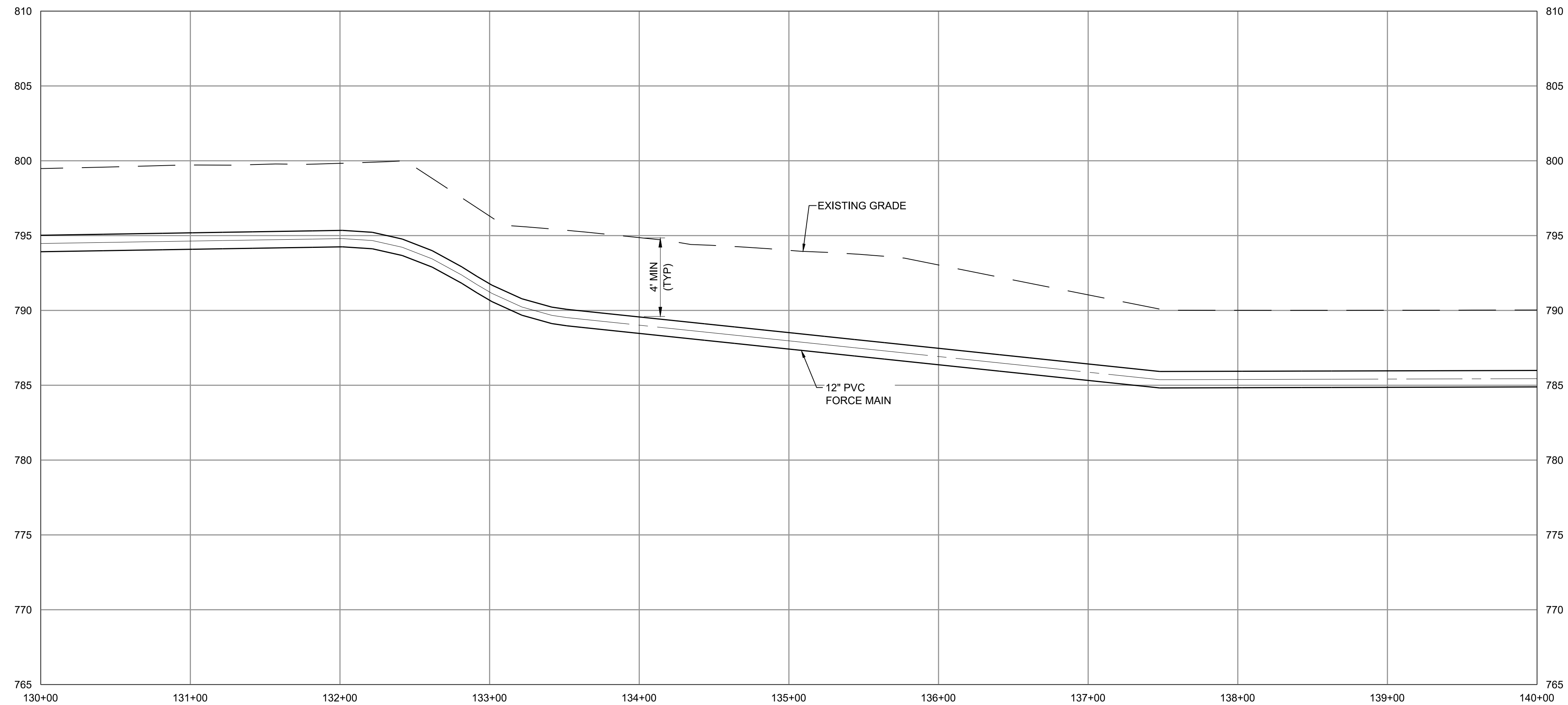
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 130+00 TO STA 140+00

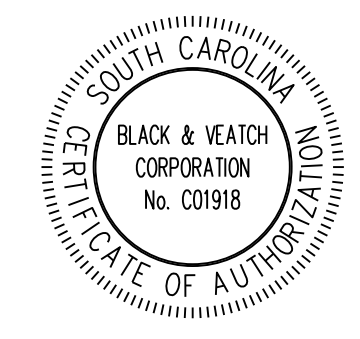
C-04-062

XXX
OF
XXX

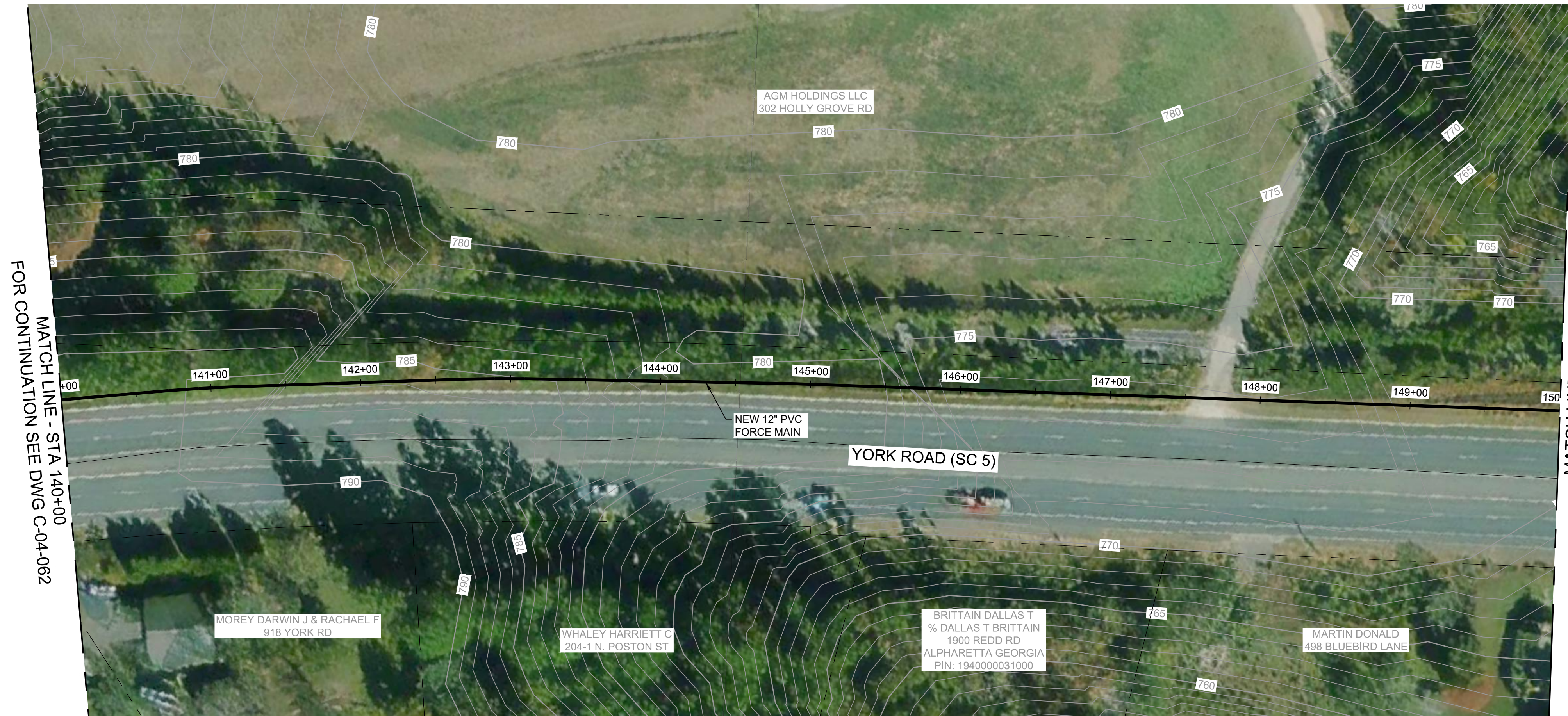
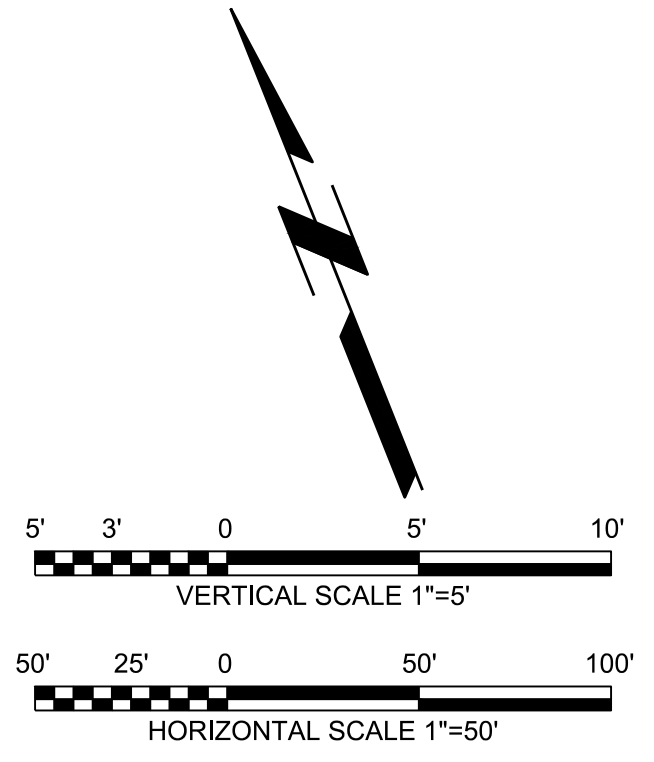


(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 12:41:04 PM
 FILE: C:\PW\WORKING\B\W_AMERICAS_2021562805410381-SEG4-FM-PP-SHET.DWG
 PLOT: 011000



SUBCONSULTANT:



MATCH LINE - STA 140+00
FOR CONTINUATION SEE DWG C-04-062

MATCH LINE - STA 150+00
FOR CONTINUATION SEE DWG C-04-064

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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

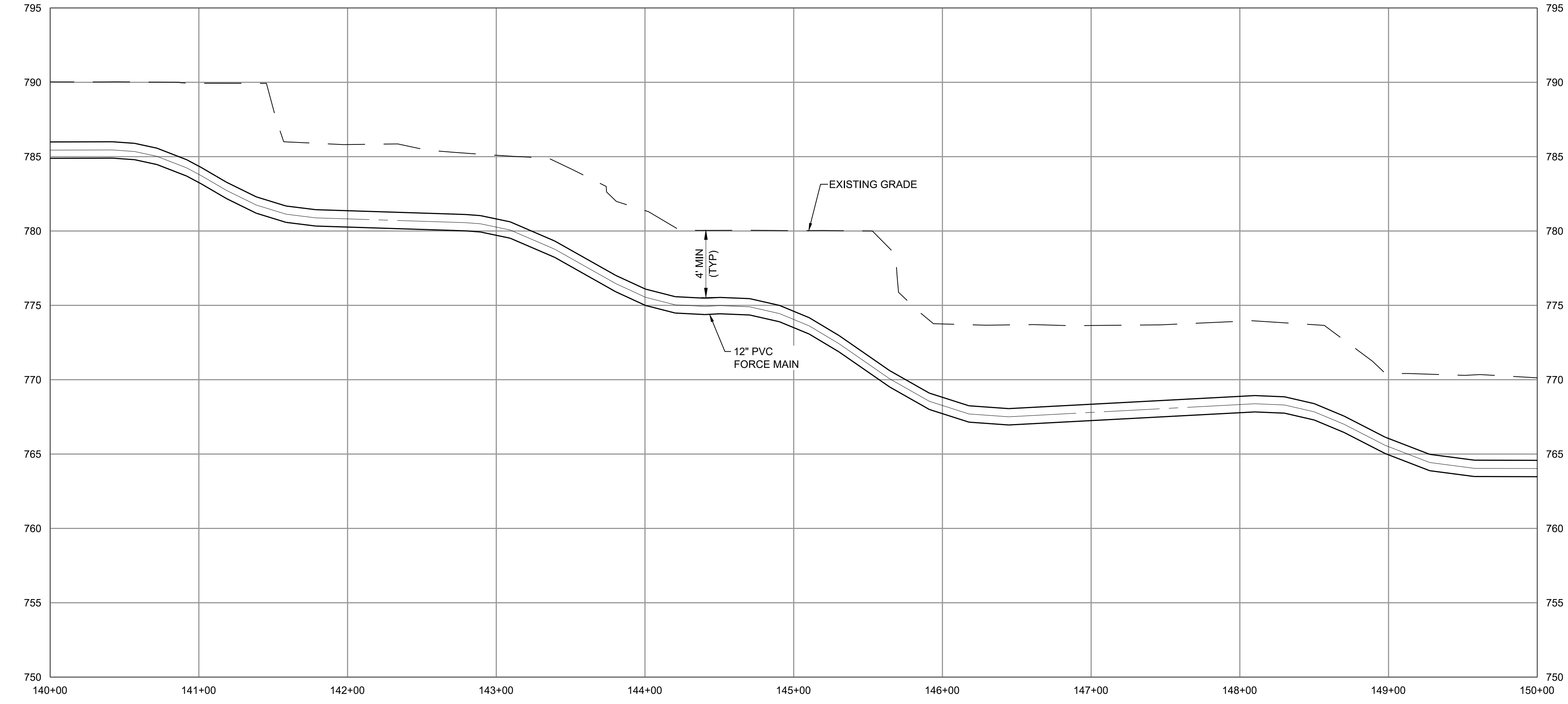
SEGMENT 4
FORCE MAIN

CIVIL

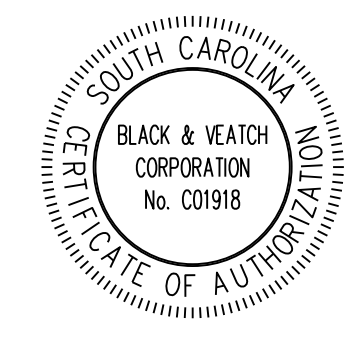
PLAN AND PROFILE
STA 140+00 TO STA 150+00

C-04-063

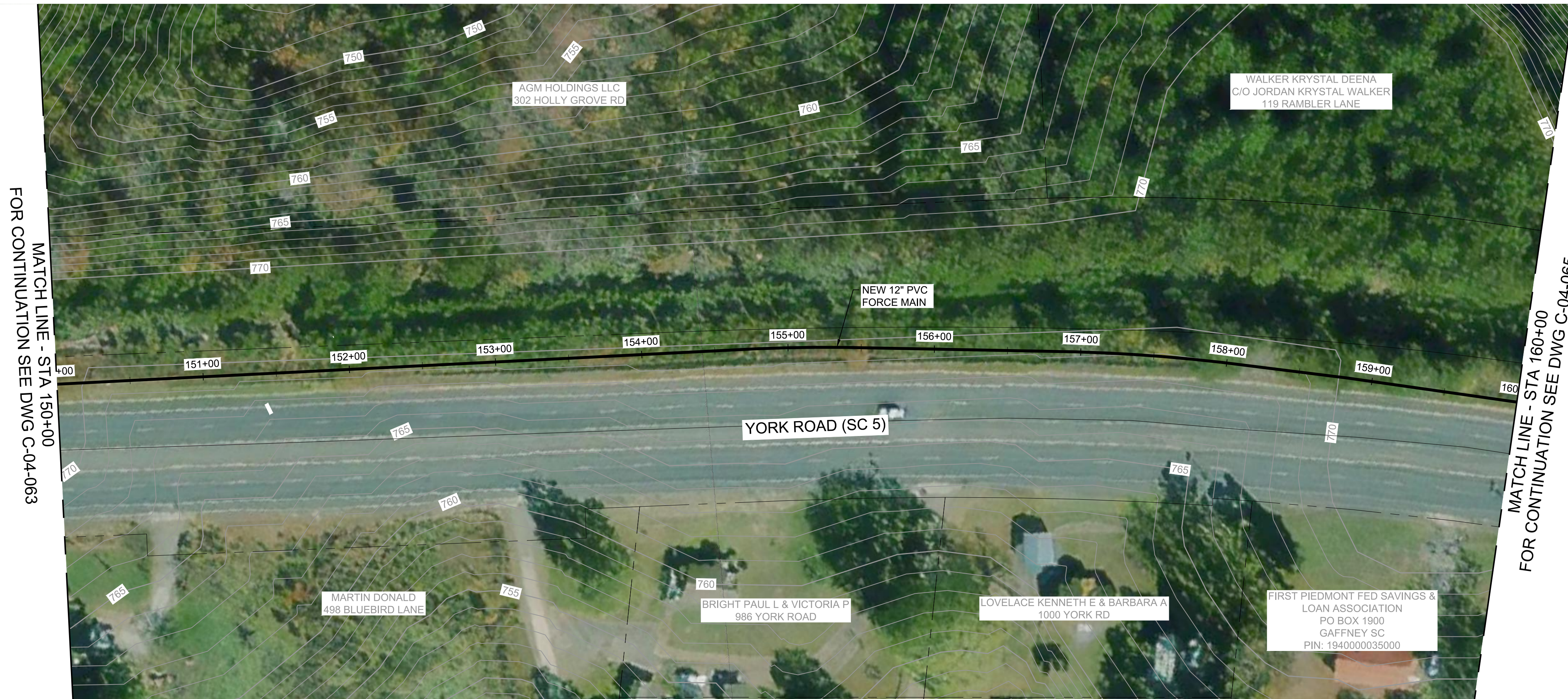
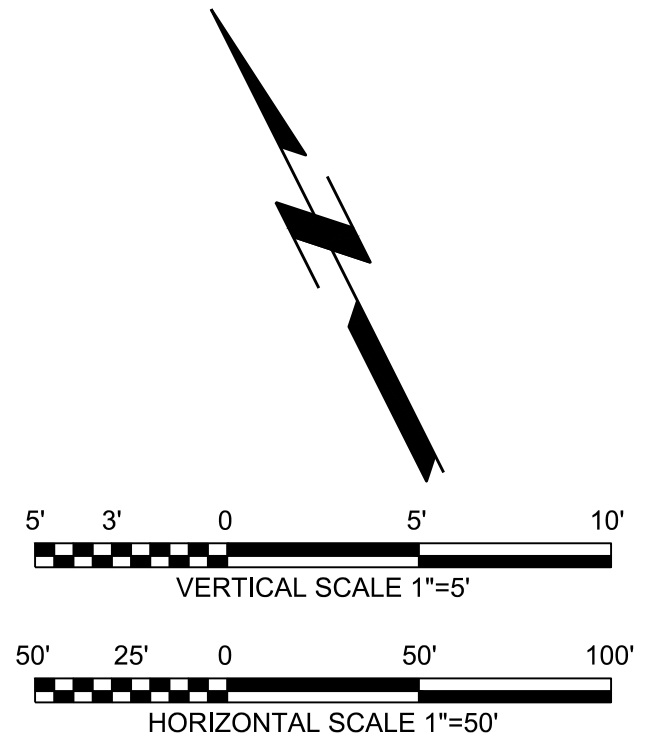
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OF
XXX



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FDI:000
D11000



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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

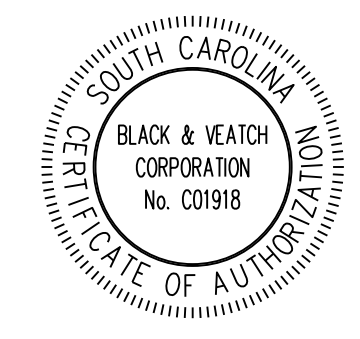
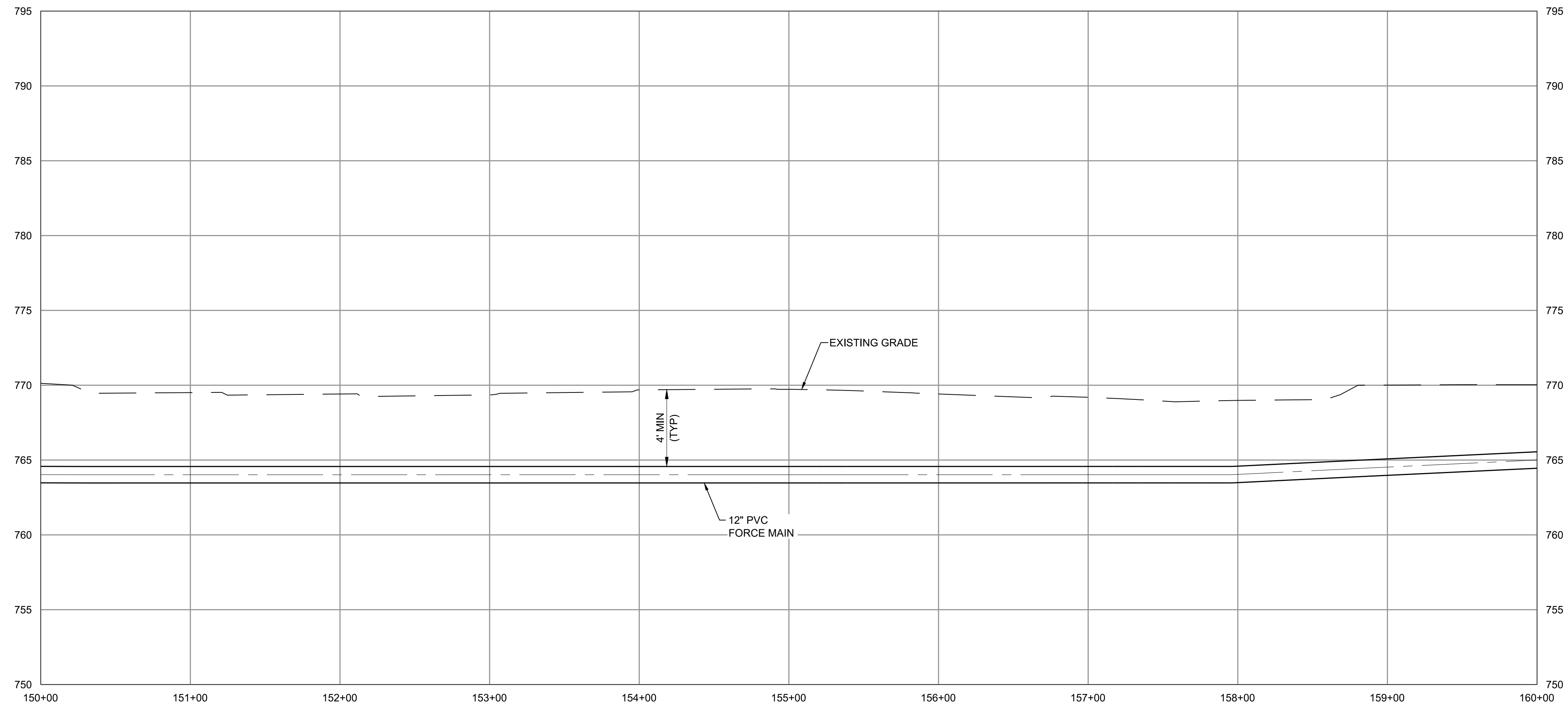
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 150+00 TO STA 160+00

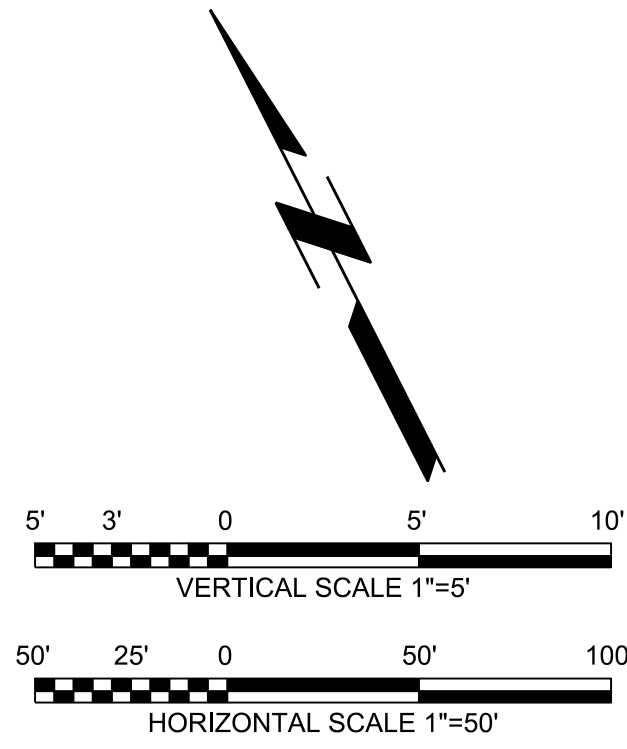
C-04-064

XXX
OF
XXX



PLOTTED: 5/23/2022 12:43:54 PM
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FDI:000
D11000

SUBCONSULTANT:



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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

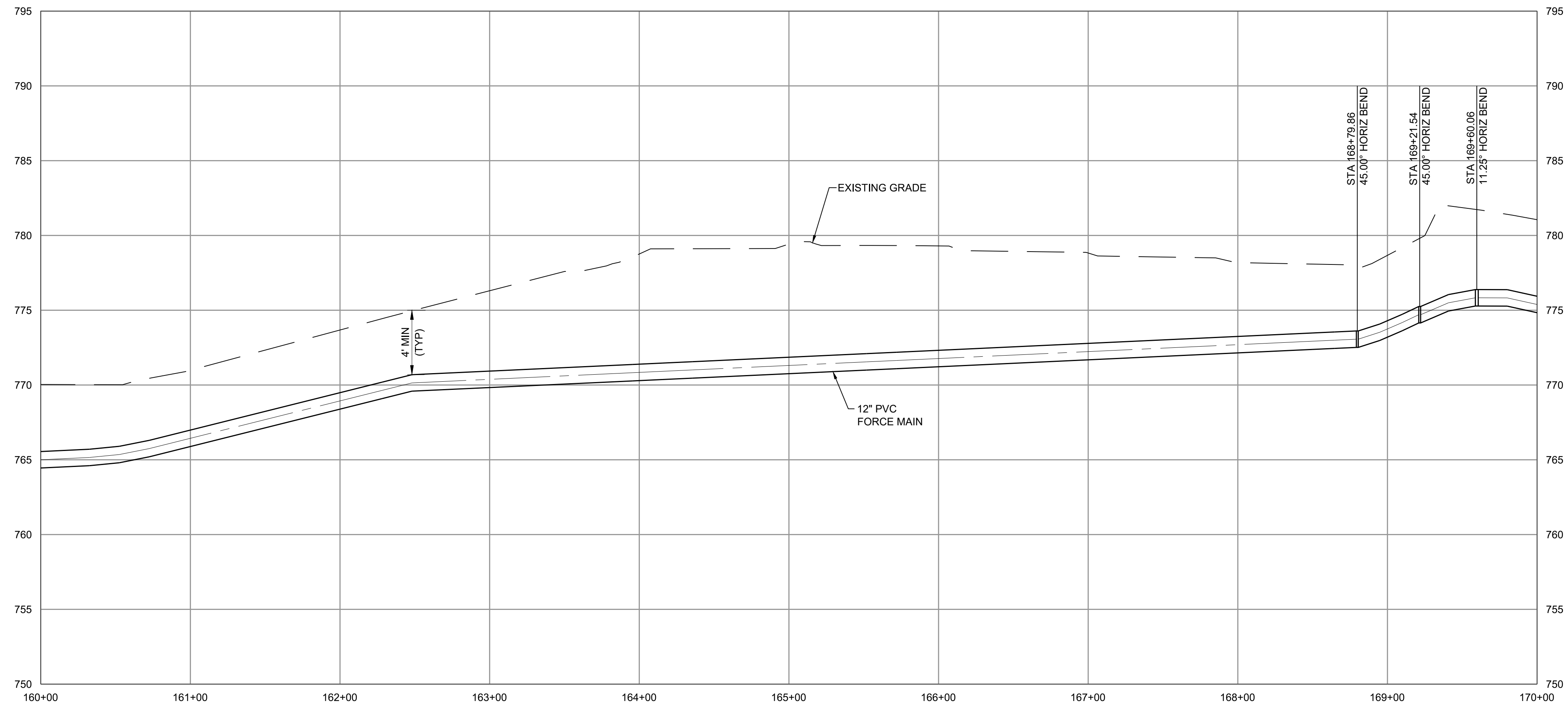
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 160+00 TO STA 170+00

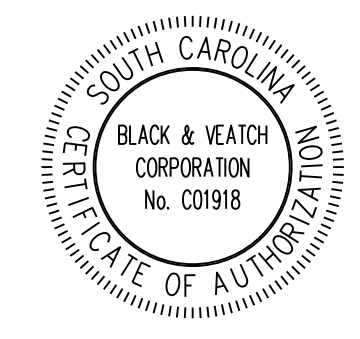
C-04-065

XXX
OF
XXX

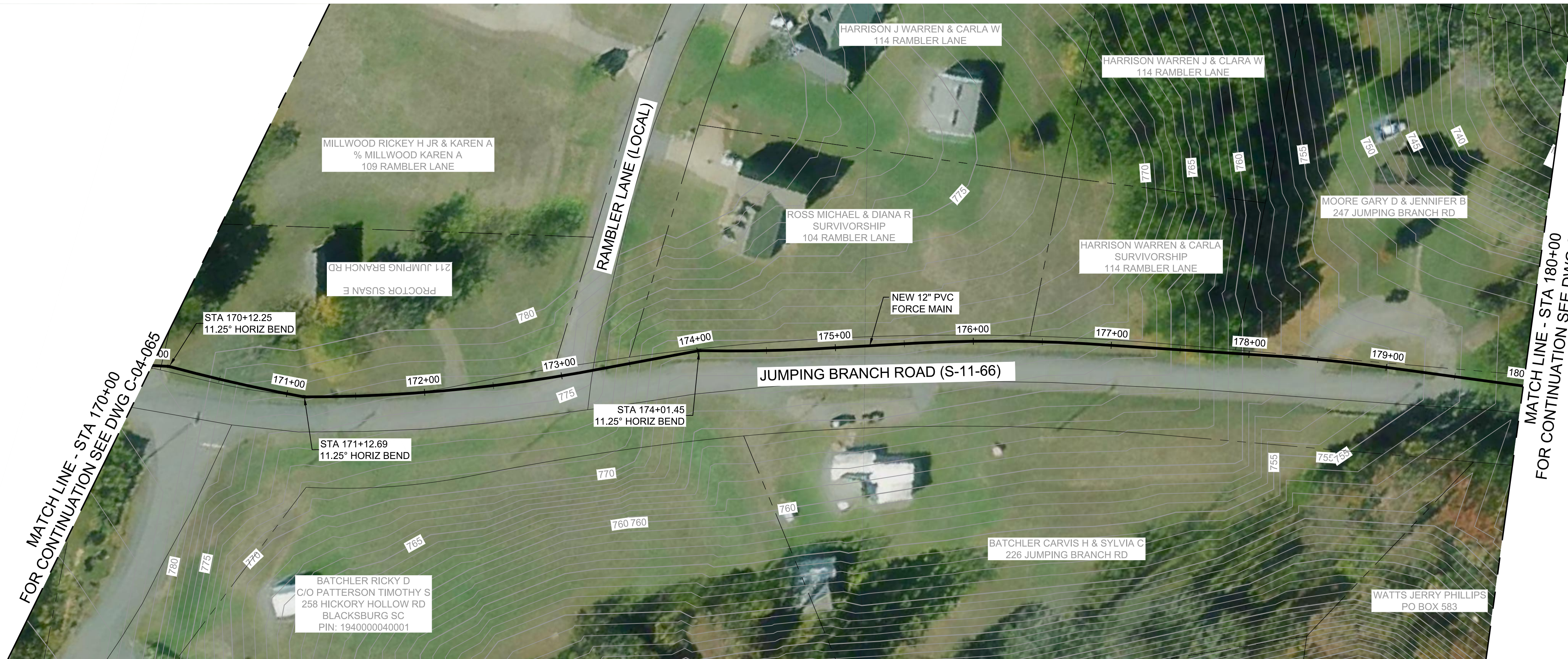
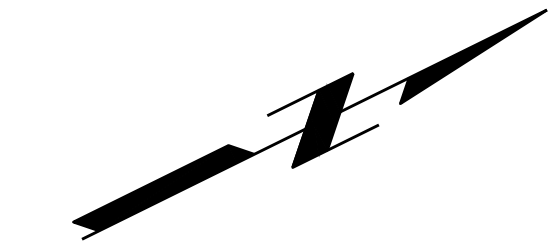


(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 12:45:19 PM
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 PLOT: 01000
 D:\11000



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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: CHECKER
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

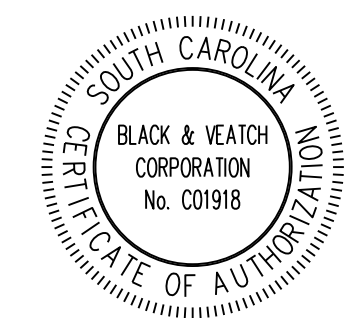
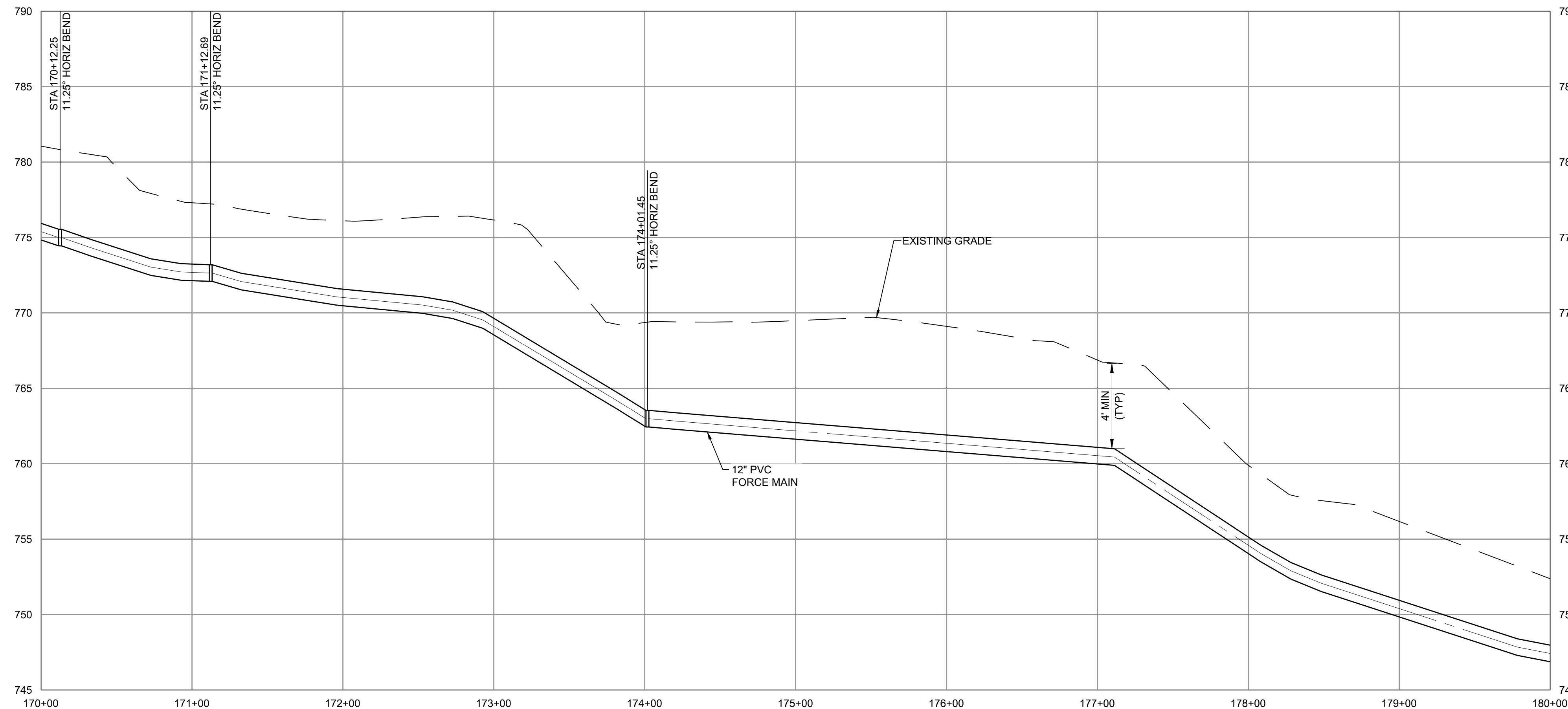
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 170+00 TO STA 180+00

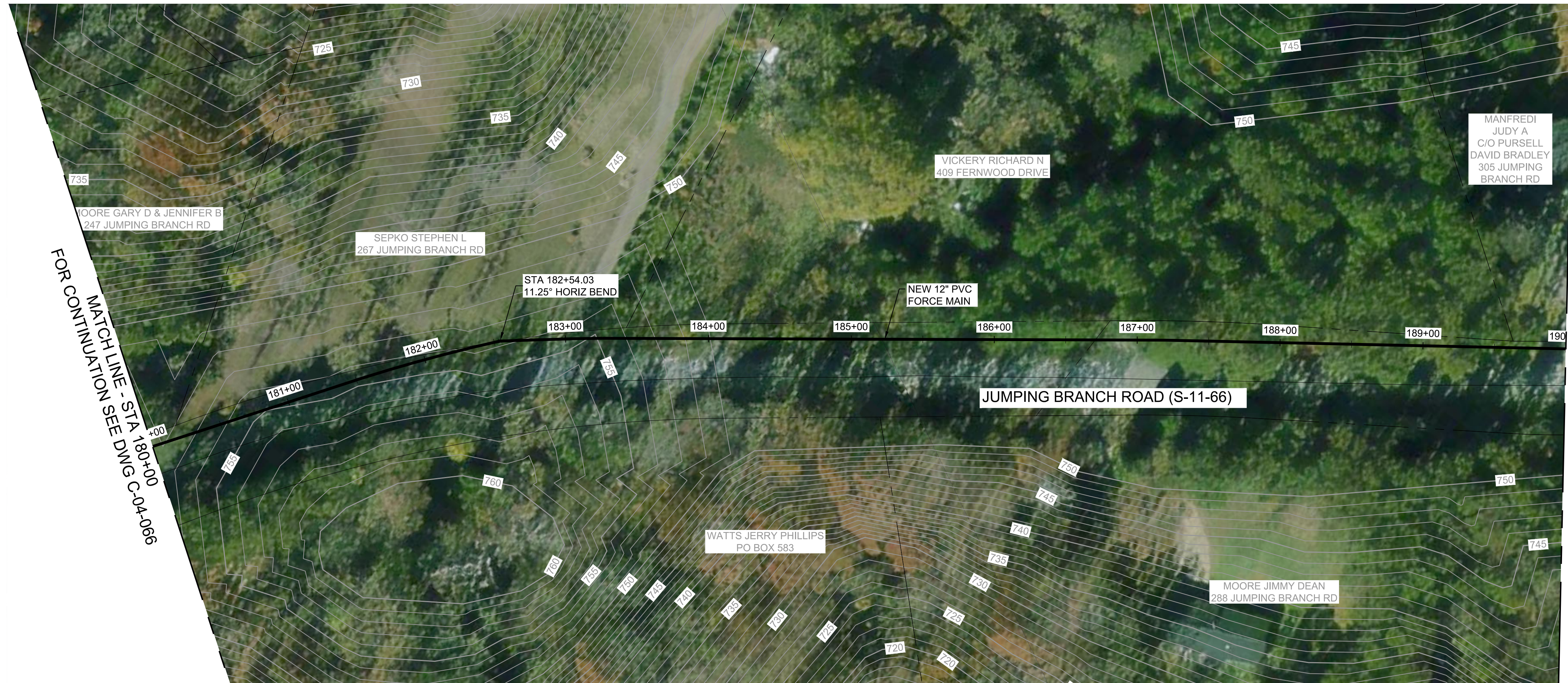
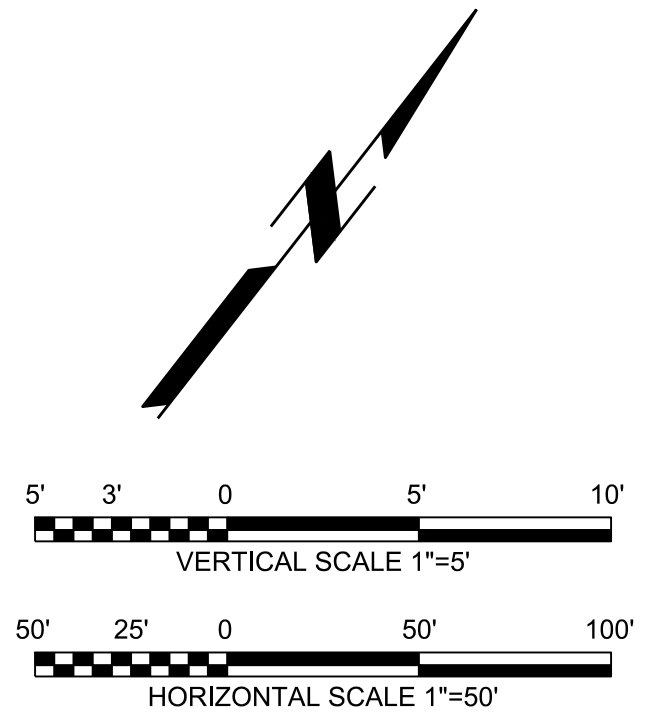
C-04-066

RTC
OF
XXX



PLOTTED: 5/23/2022 12:46:47 PM
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 PLOT: 000
 D:\1000

SUBCONSULTANT:



MATCH LINE - STA 190+00
FOR CONTINUATION SEE DWG C-04-068

MATCH LINE - STA 180+00
FOR CONTINUATION SEE DWG C-04-069

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VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

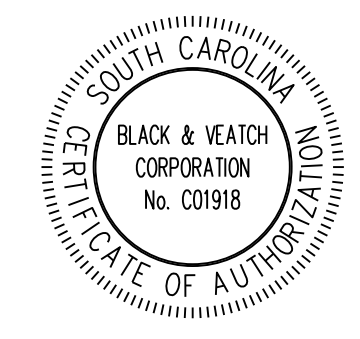
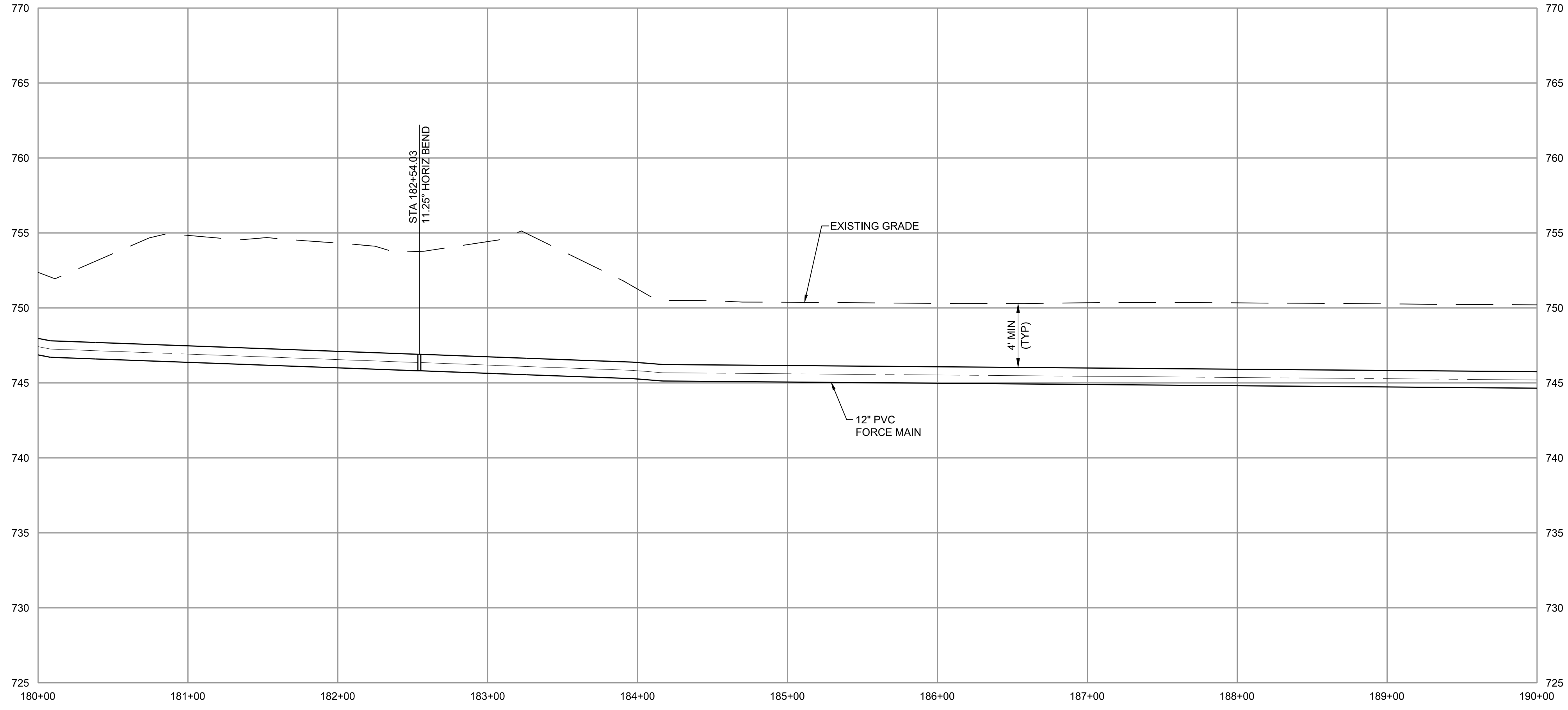
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 180+00 TO STA 190+00

C-04-067

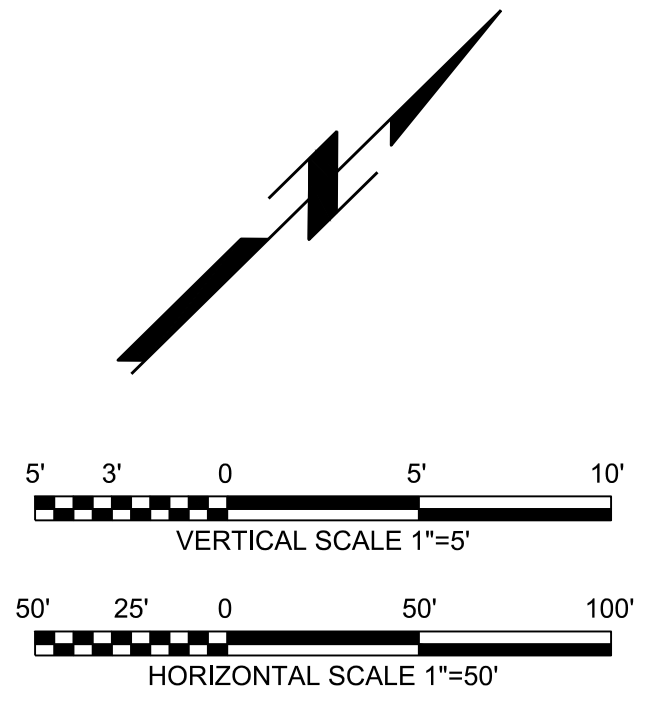
XXX
OF
XXX



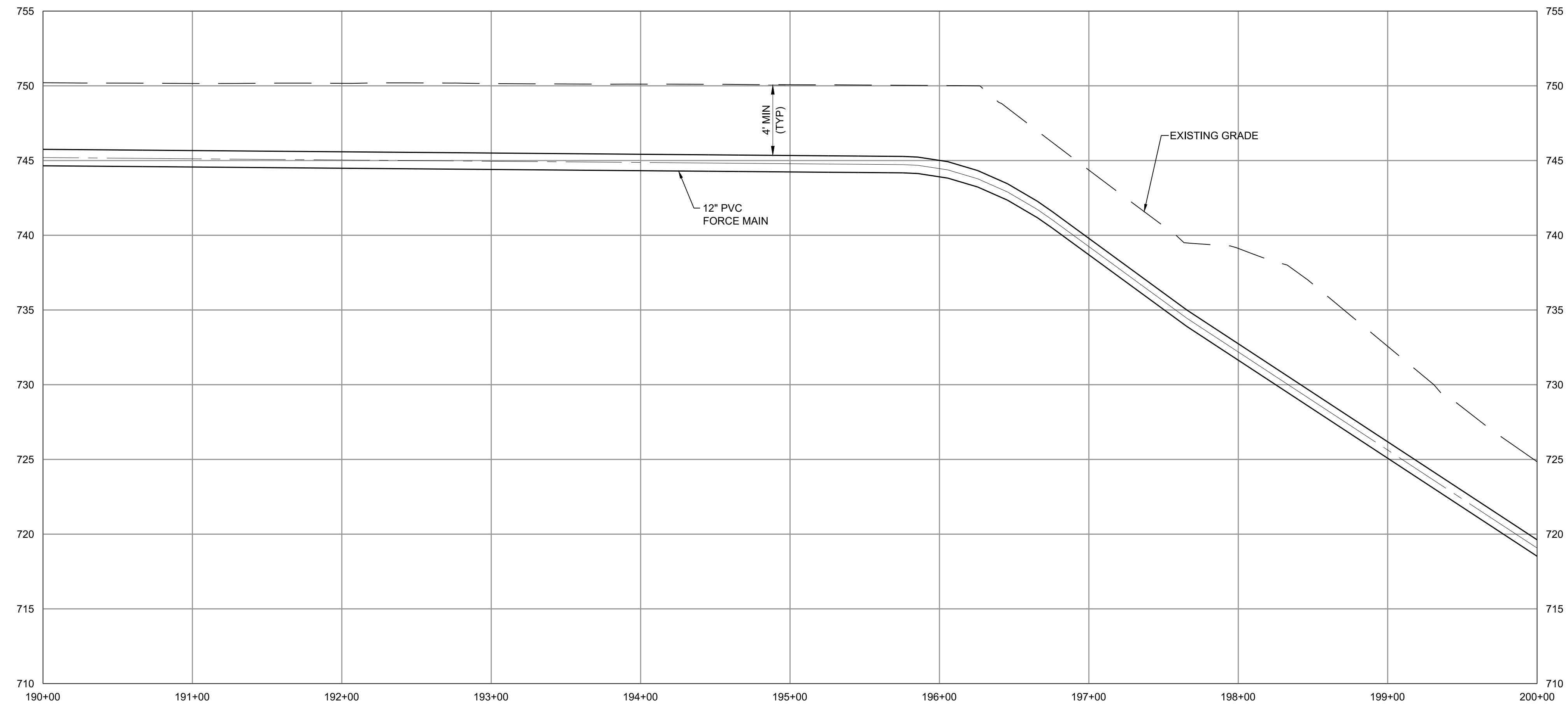
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FD1000
D11000

SUBCONSULTANT:



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**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE STA
190+00 TO STA 200+00

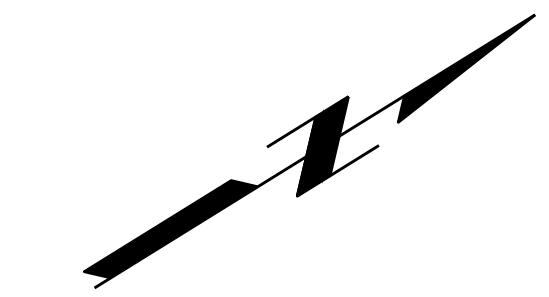
C-04-068

XXX
OF
XXX

PLOTTED: 5/23/2022 12:49:34 PM
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 PLOT: 01000
 D11000



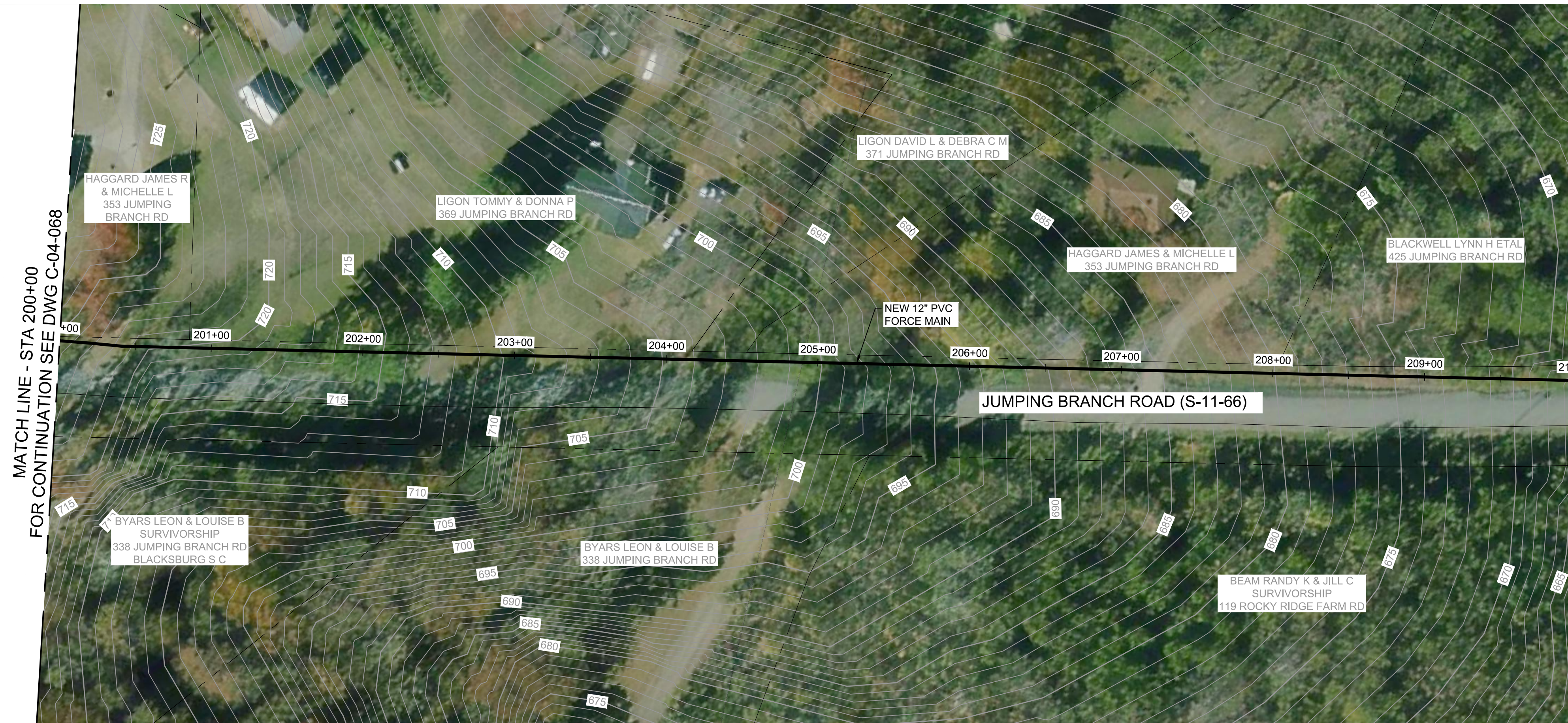
SUBCONSULTANT:



VERTICAL SCALE 1"=5'



HORIZONTAL SCALE 1"=50'



MATCH LINE - STA 200+00
FOR CONTINUATION SEE DWG C-04-068

MATCH LINE - STA 210+00
FOR CONTINUATION SEE DWG C-04-070

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

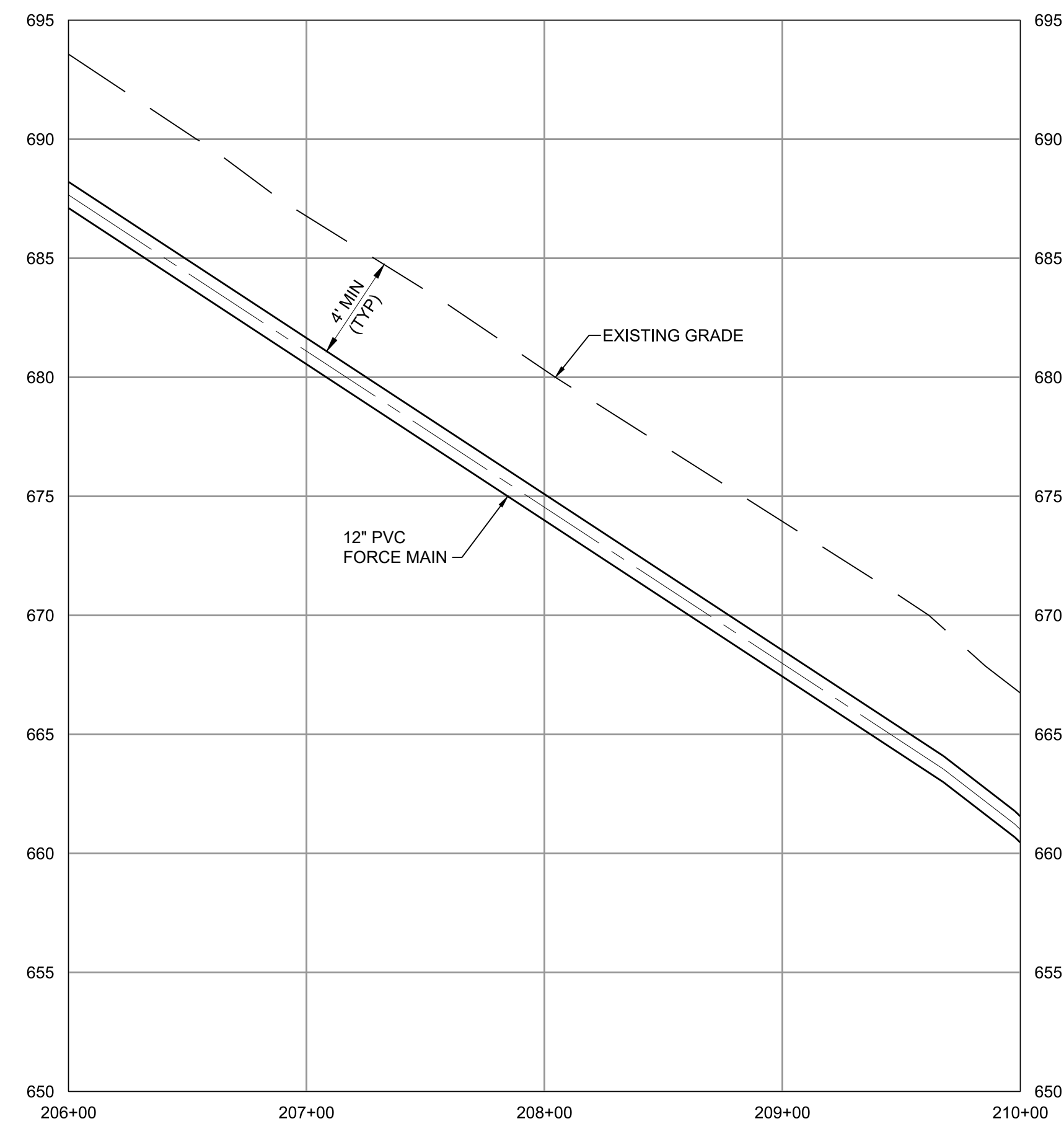
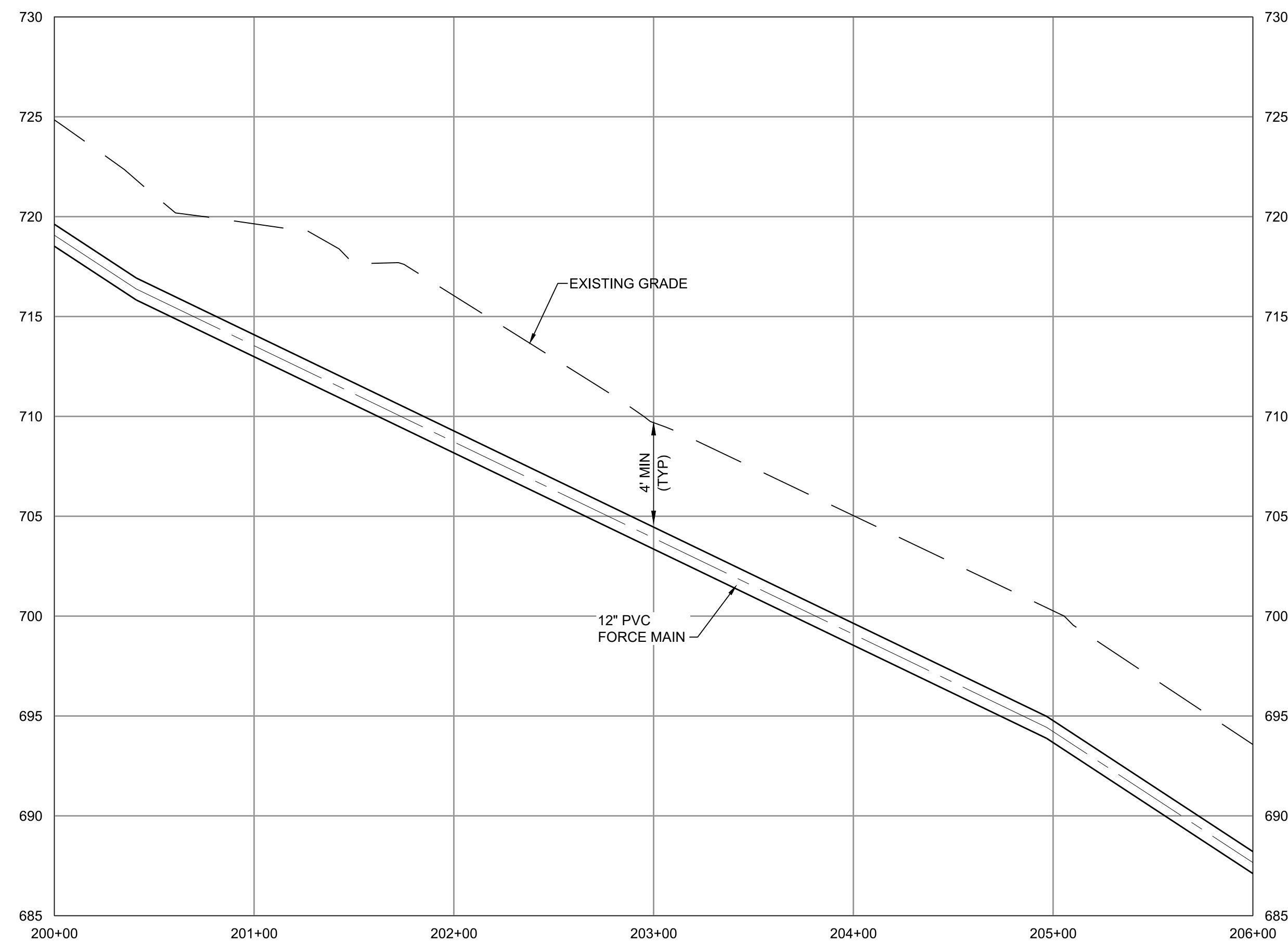
SEGMENT 4
FORCE MAIN

CIVIL

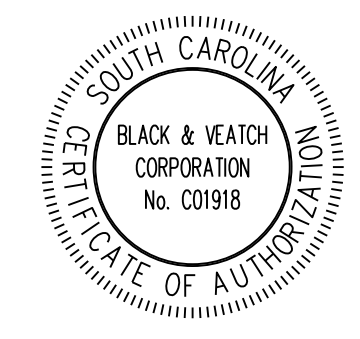
PLAN AND PROFILE
STA 200+00 TO STA 210+00

C-04-069

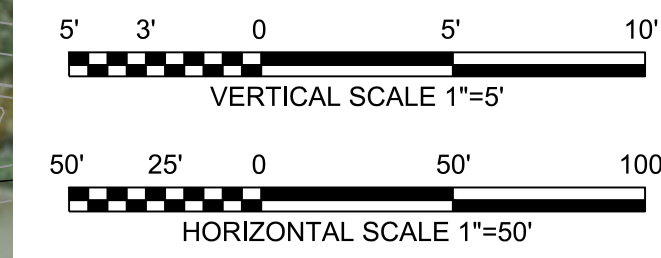
XXX
OF
XXX



PLOTTED: 5/23/2022 12:50:58 PM
FILE: C:\PW\WORKING\B\W\AMERICAS_201562805410381-SEG4-FM-PP-SHET.DWG
FDI:000
D11000



SUBCONSULTANT:



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

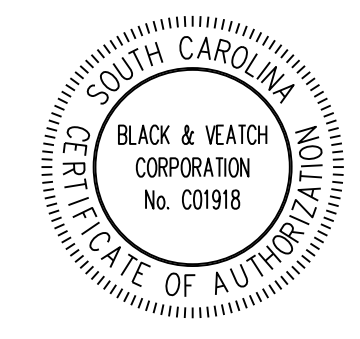
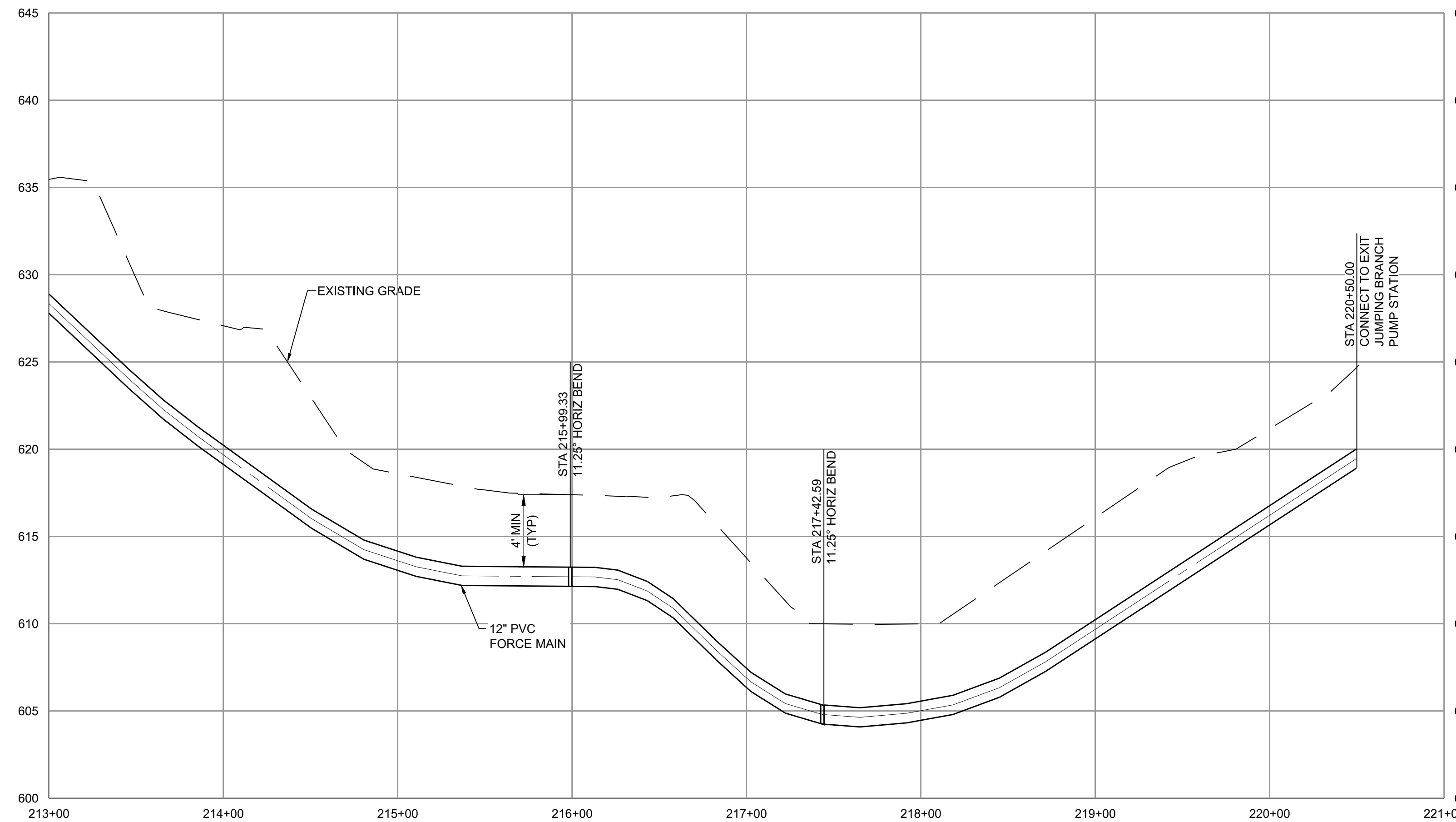
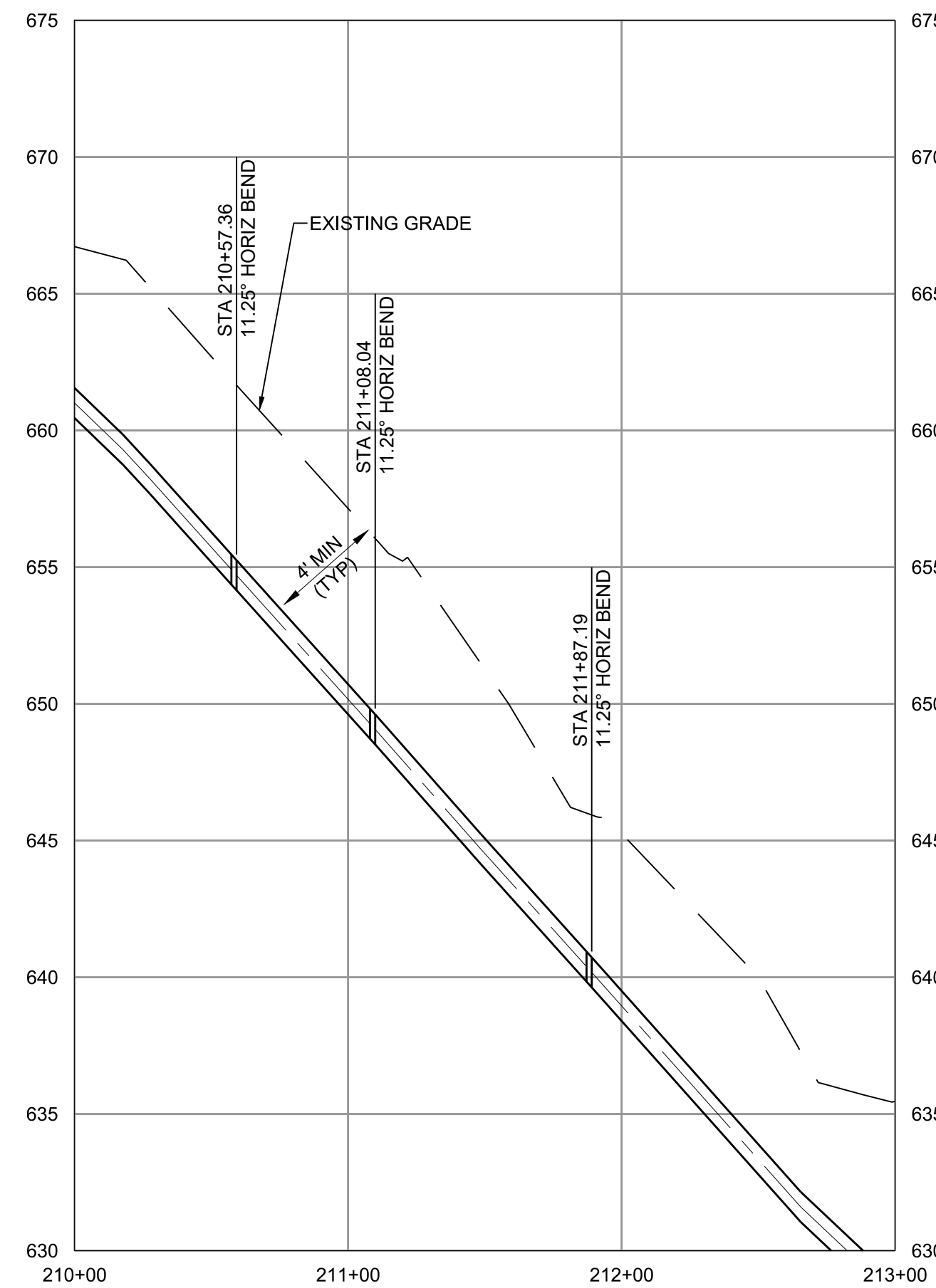
SEGMENT 4
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 210+00 TO STA 220+50

C-04-070

XXX
OF
XXX



SUBCONSULTANT:



VERTICAL SCALE 1"=5'



HORIZONTAL SCALE 1"=50'



MATCH LINE - STA 10+00
FOR CONTINUATION SEE DWG C-05-072

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

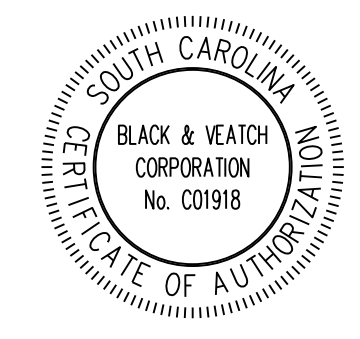
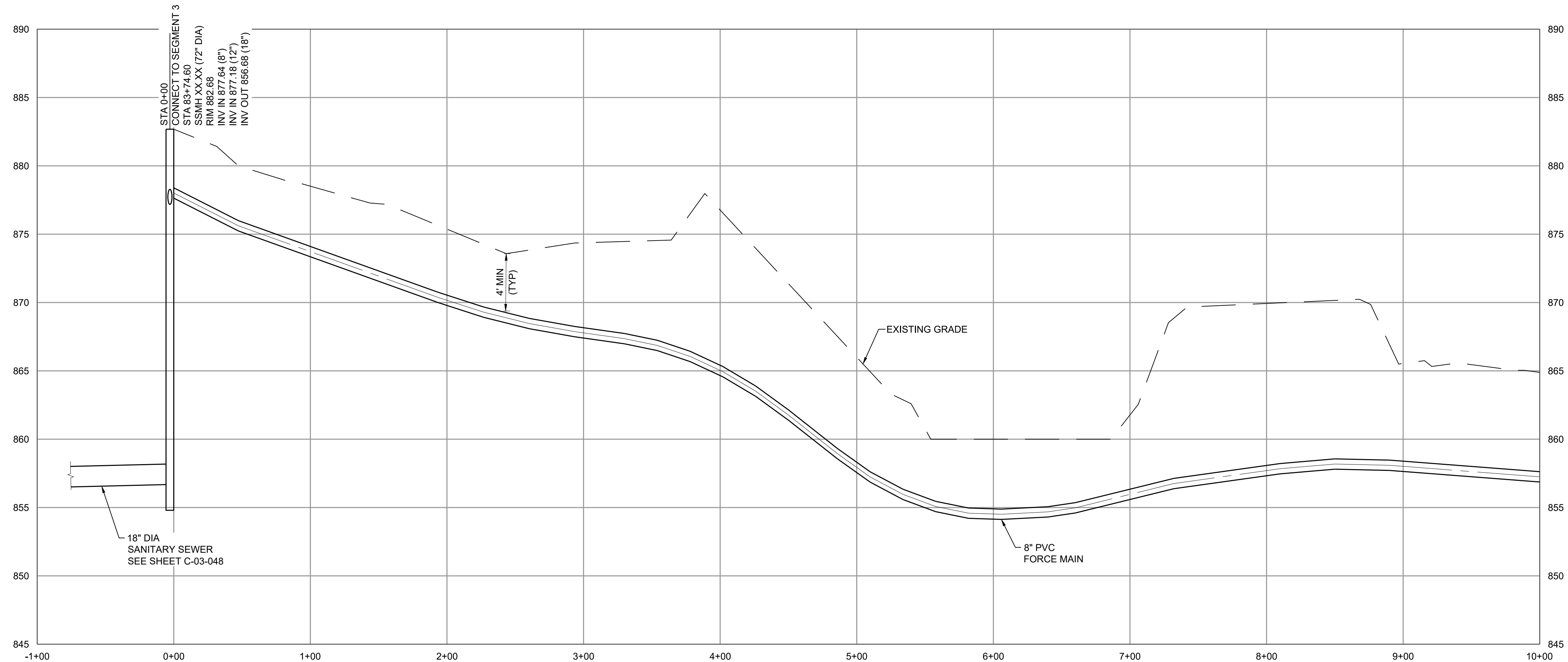
SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 0+00 TO STA 10+00

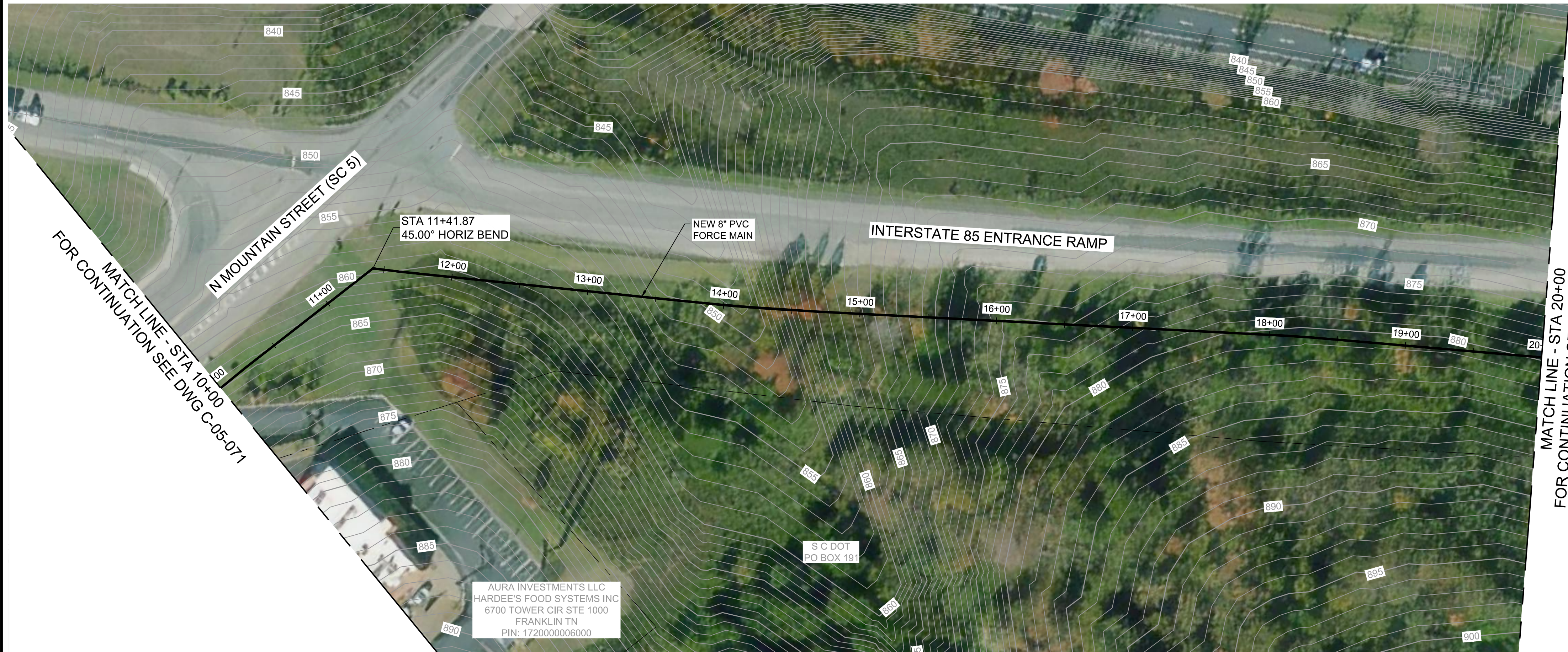
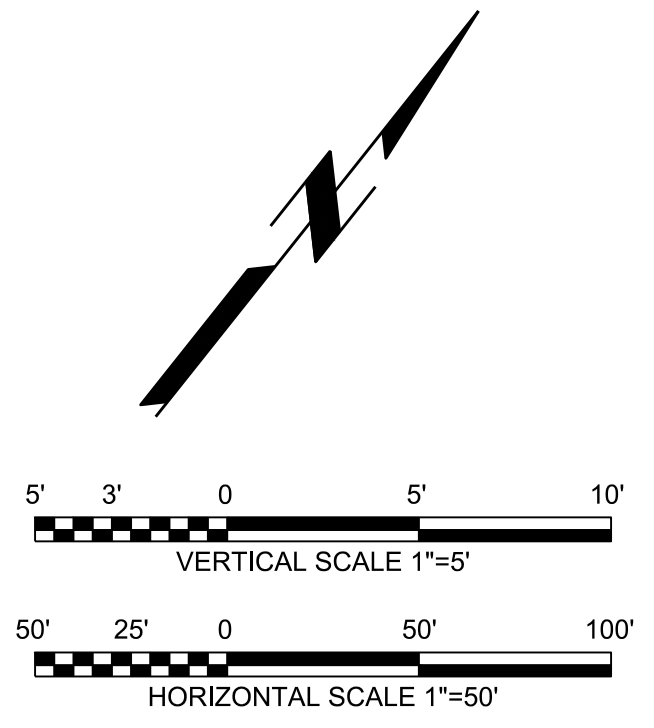
C-05-071

XXX
OF
XXX



PLOTTED: 5/30/2022 3:52:50 PM
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FDI:000
D11000

SUBCONSULTANT:



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AURA INVESTMENTS LLC
HARDEE'S FOOD SYSTEMS INC
6700 TOWER CIR STE 1000
FRANKLIN TN
PIN: 172000006000

GAFFNEY BOARD OF PUBLIC WORKS

PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

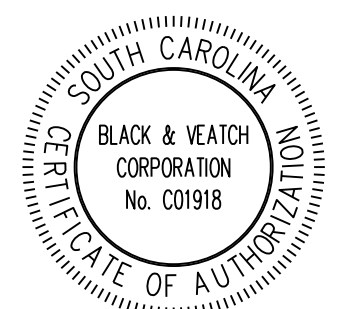
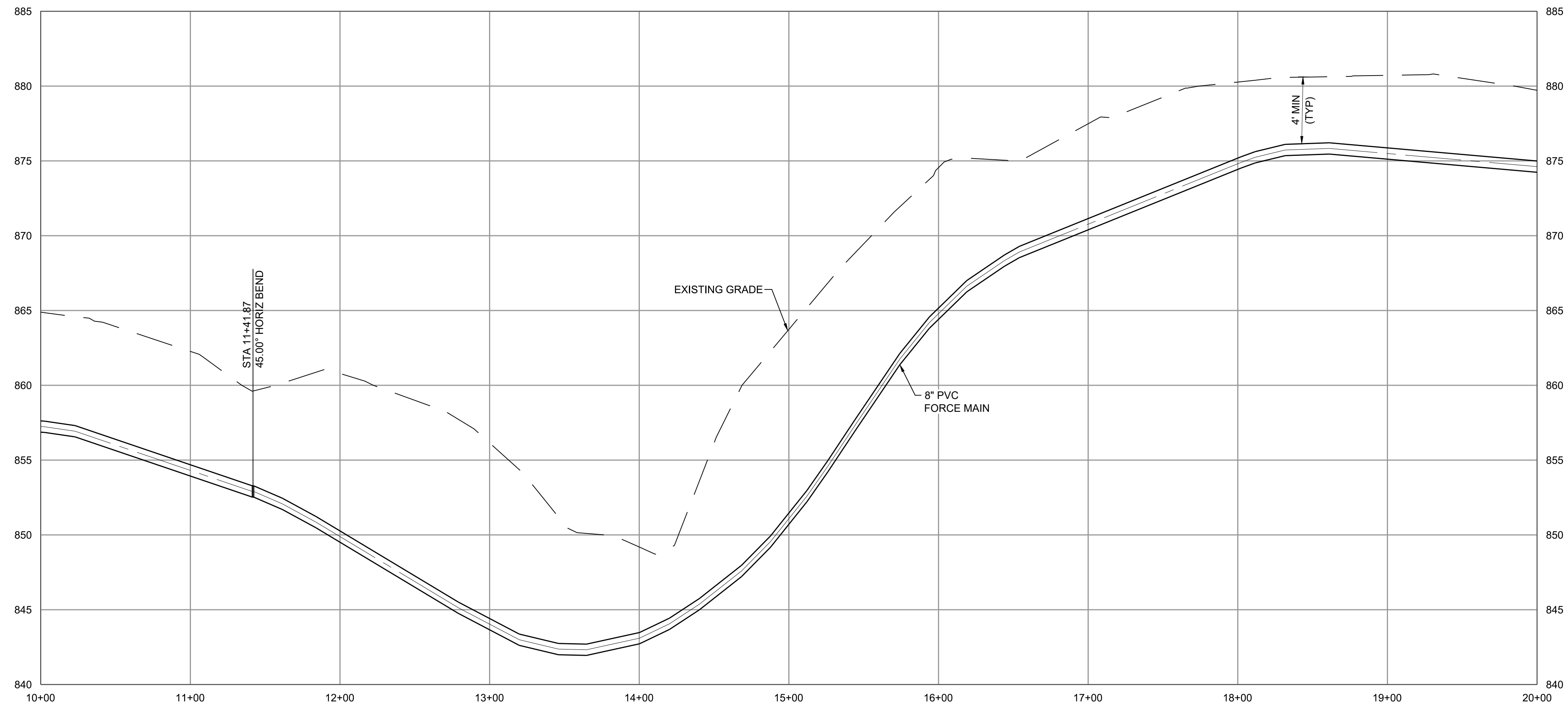
SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 10+00 TO STA 20+00

C-05-072

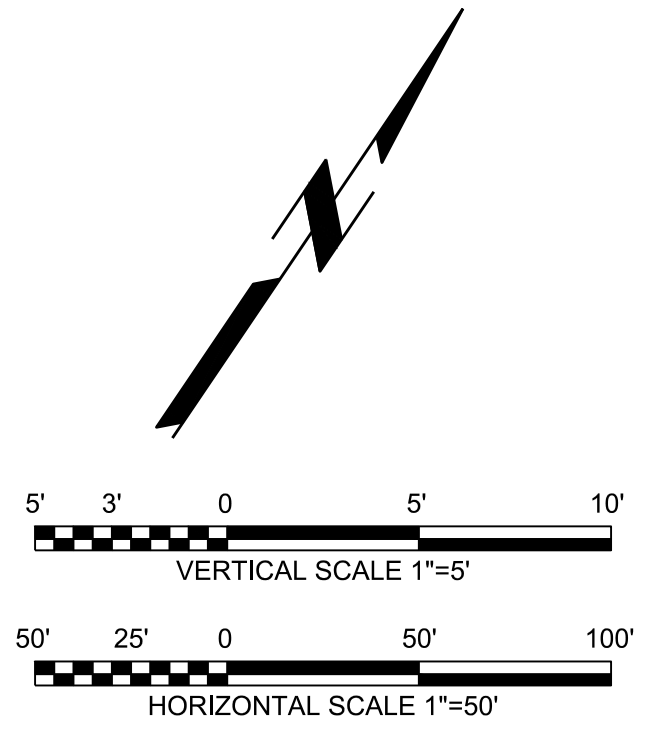
XXX
OF
XXX



(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 4:38:00 PM
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 PLOT: 000
 D:\1000

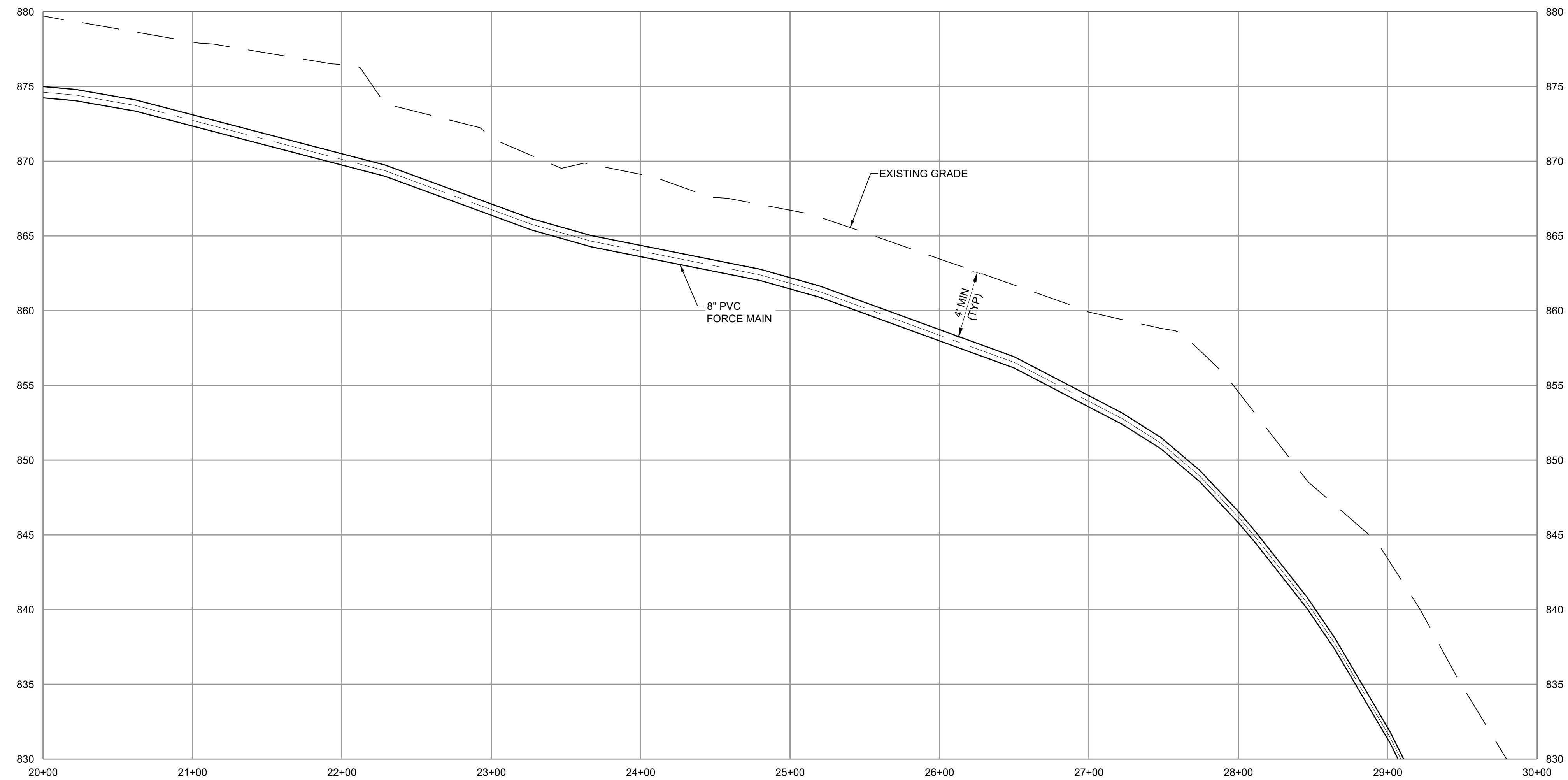
SUBCONSULTANT:



MATCH LINE - STA 20+00
FOR CONTINUATION SEE DWG C-05-072

MATCH LINE - STA 30+00
FOR CONTINUATION SEE DWG C-05-074

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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
NOT FOR
CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 20+00 TO STA 30+00

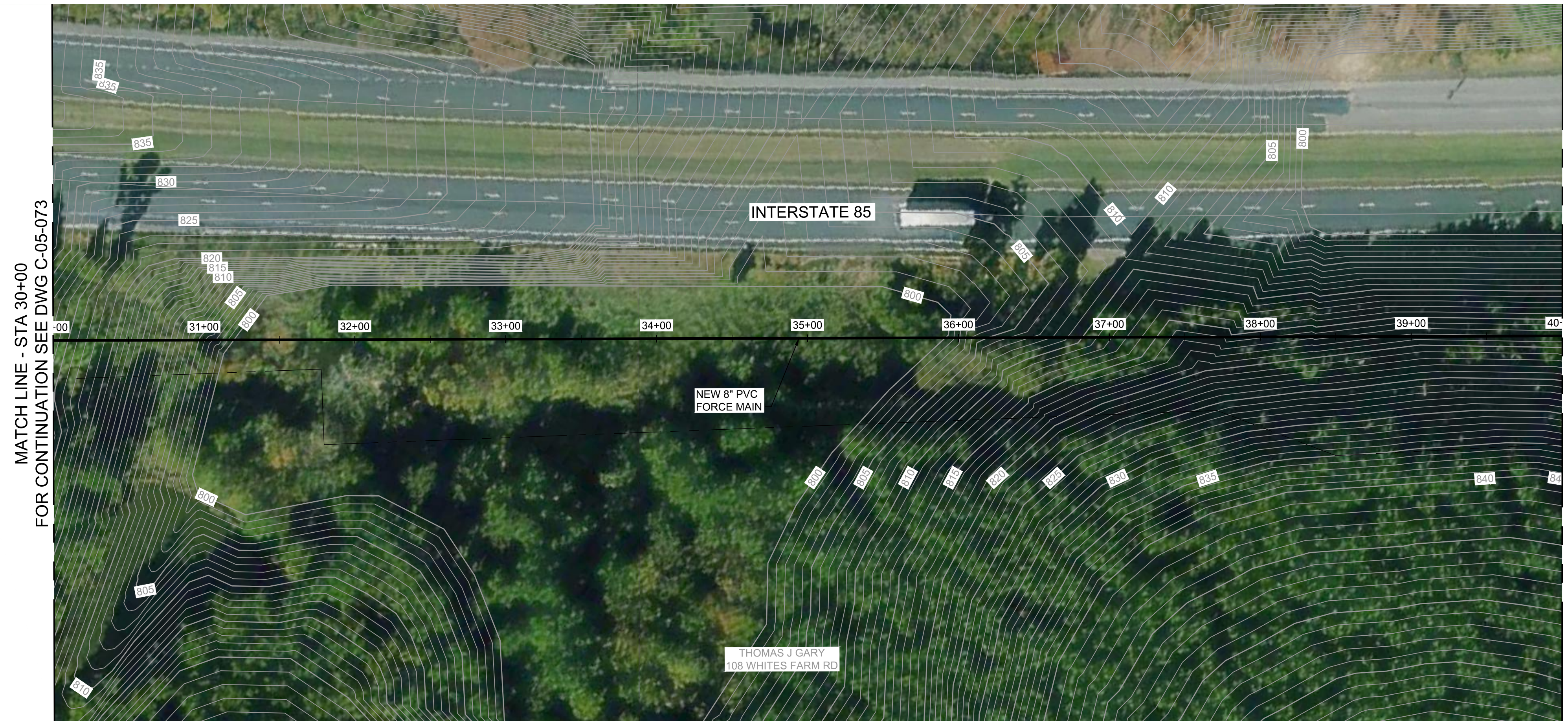
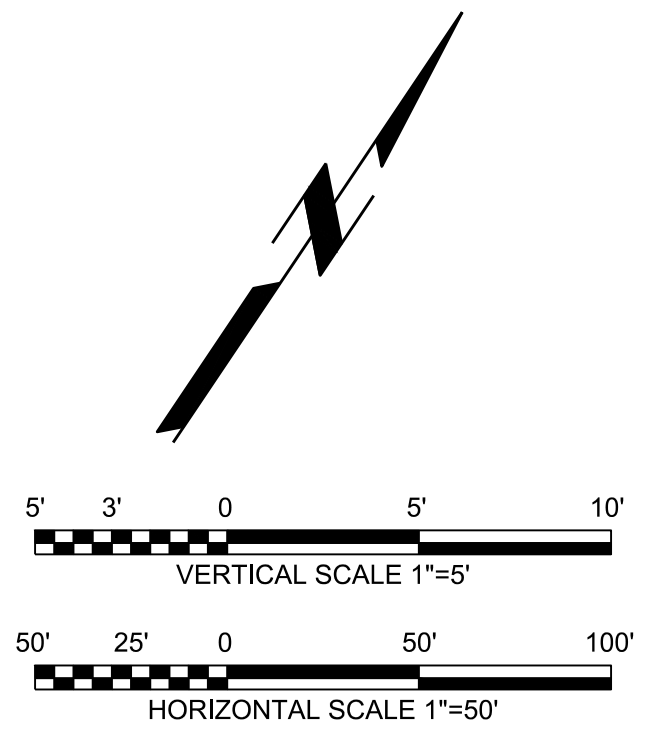
C-05-073

XXX
OF
XXX

PLOTTED: 5/23/2022 4:38:58 PM
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FDI:000
D11000



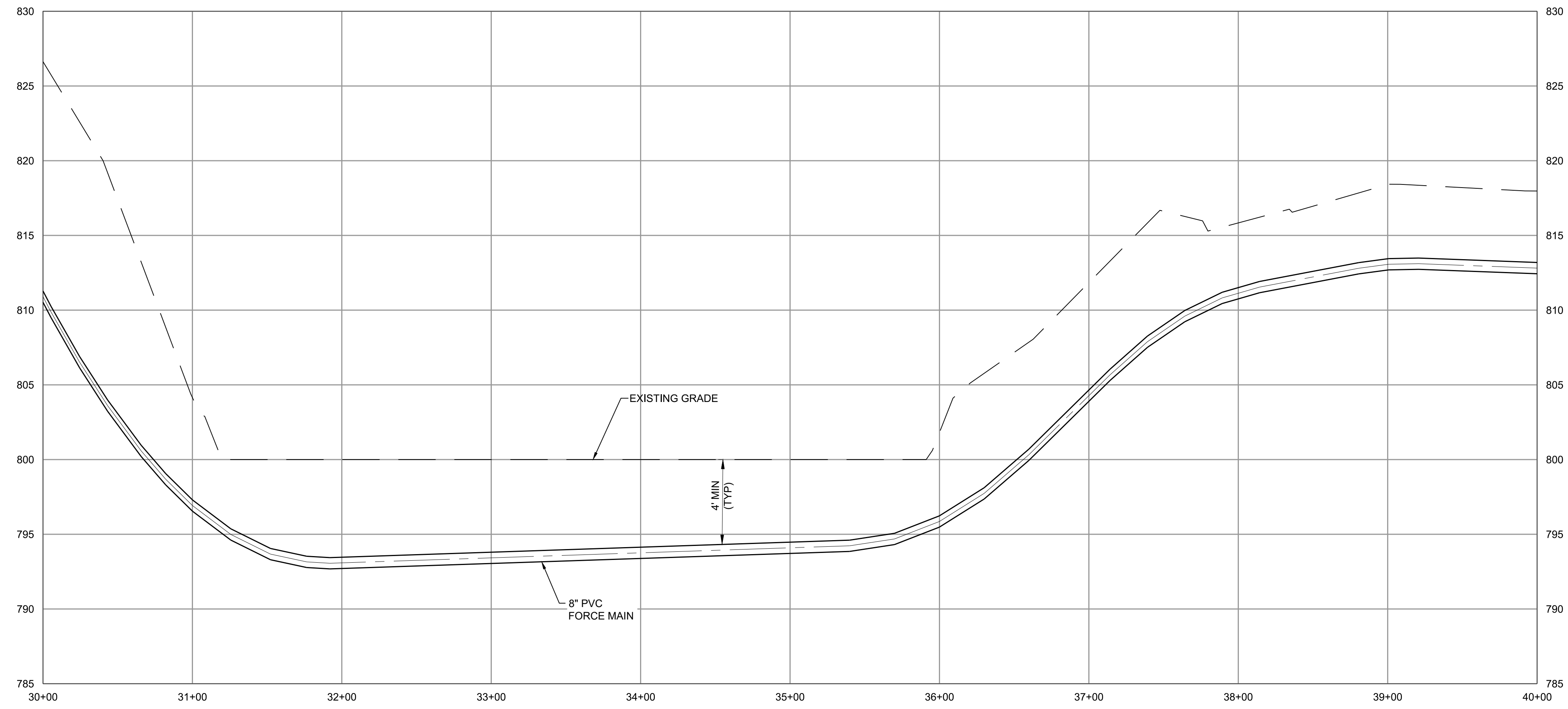
SUBCONSULTANT:



MATCH LINE - STA. 30+00
FOR CONTINUATION SEE DWG C-05-073

MATCH LINE - STA. 40+00
FOR CONTINUATION SEE DWG C-05-075

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VOLUME 2 :
COLLECTIONS

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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022

PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 30+00 TO STA 40+00

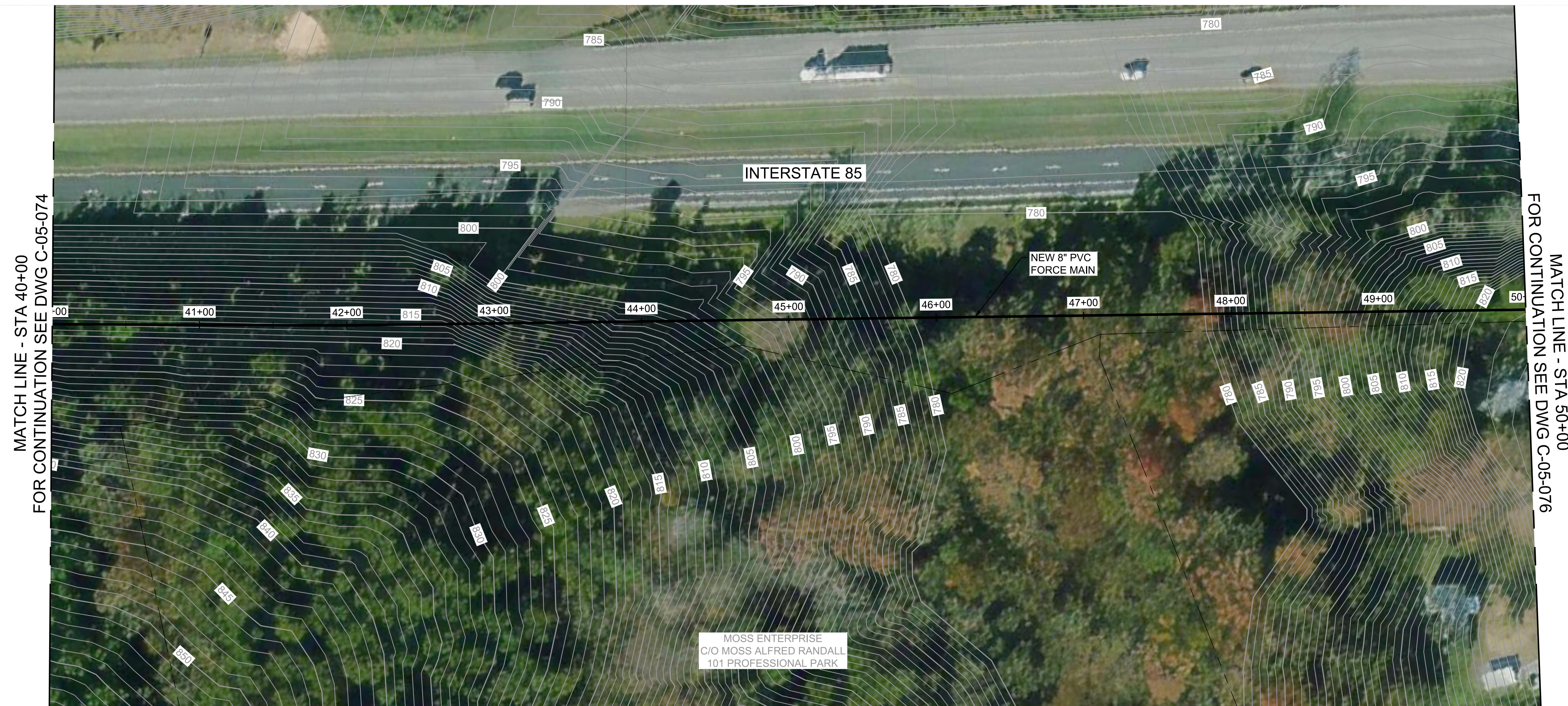
C-05-074

XXX
OF
XXX



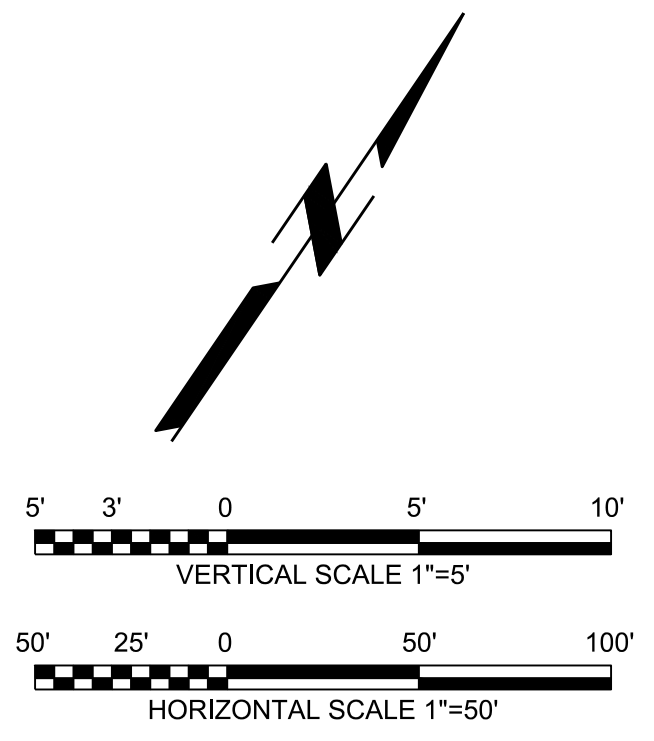
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PLOTTED: 5/23/2022 4:05:54 PM
FILE: C:\PW\WORKING\B\W_AMERICAS_201562805410381-SEG5-FM-PP-SHT.DWG
FDI:000
D11000



MATCH LINE - STA 40+00
FOR CONTINUATION SEE DWG C-05-074

MATCH LINE - STA 50+00
FOR CONTINUATION SEE DWG C-05-076



Black & Veatch Corporation
Greenville, South Carolina

SUBCONSULTANT:

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PROJECT GATEWAY
VOLUME 2 :
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CONSTRUCTION

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

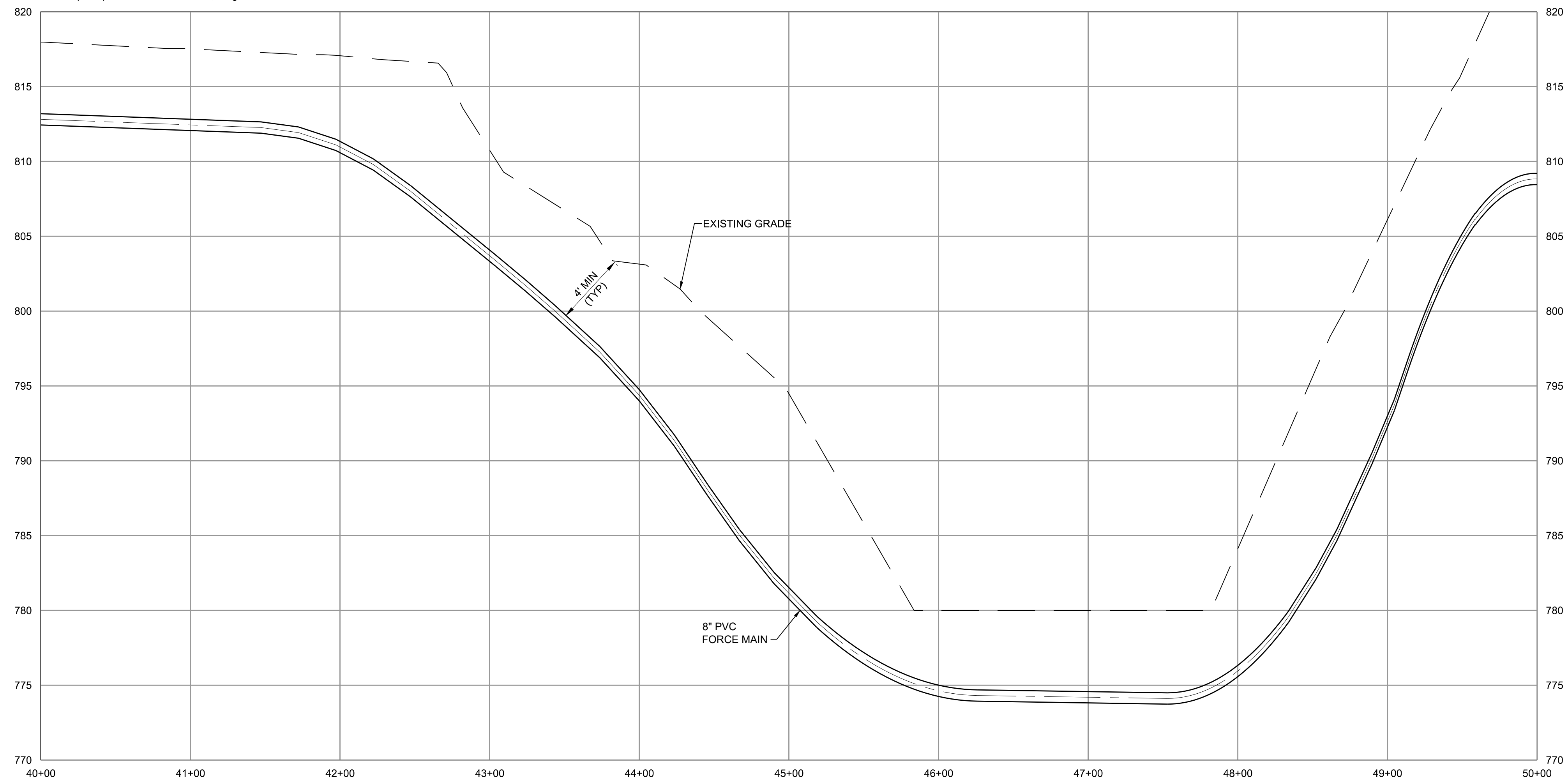
CIVIL

PLAN AND PROFILE
STA 40+00 TO STA 50+00

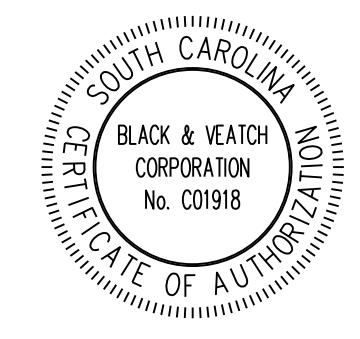
C-05-075

XXX
OF
XXX

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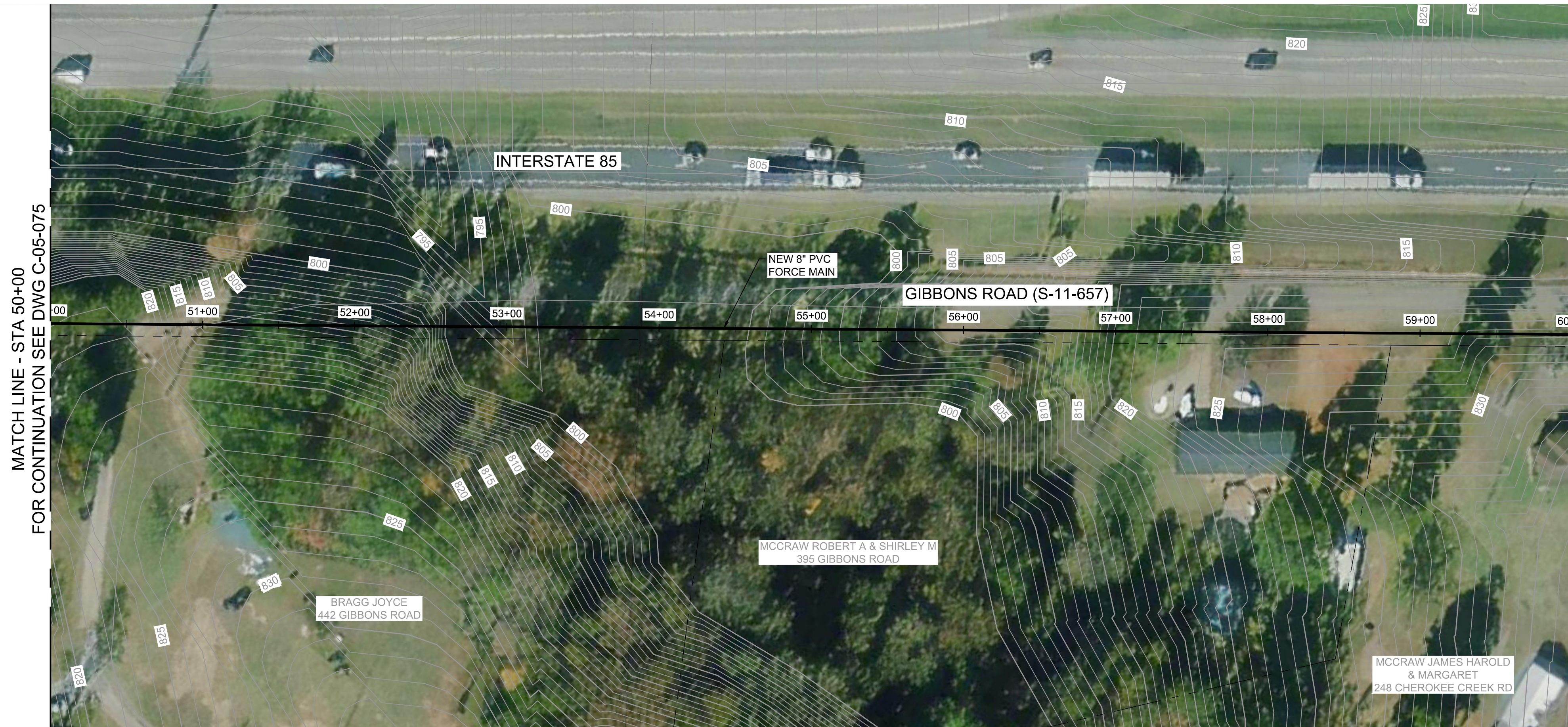
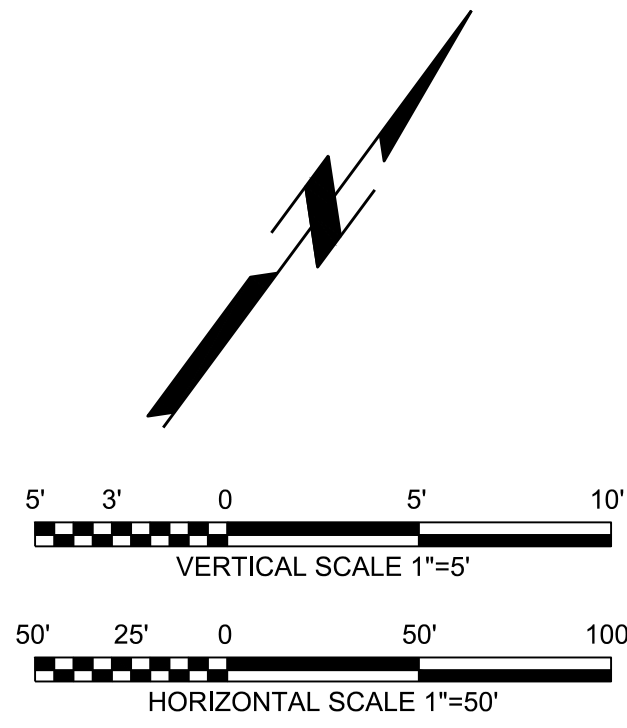


(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



PLOTTED: 5/23/2022 4:41:48 PM
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FDI:000
D11000

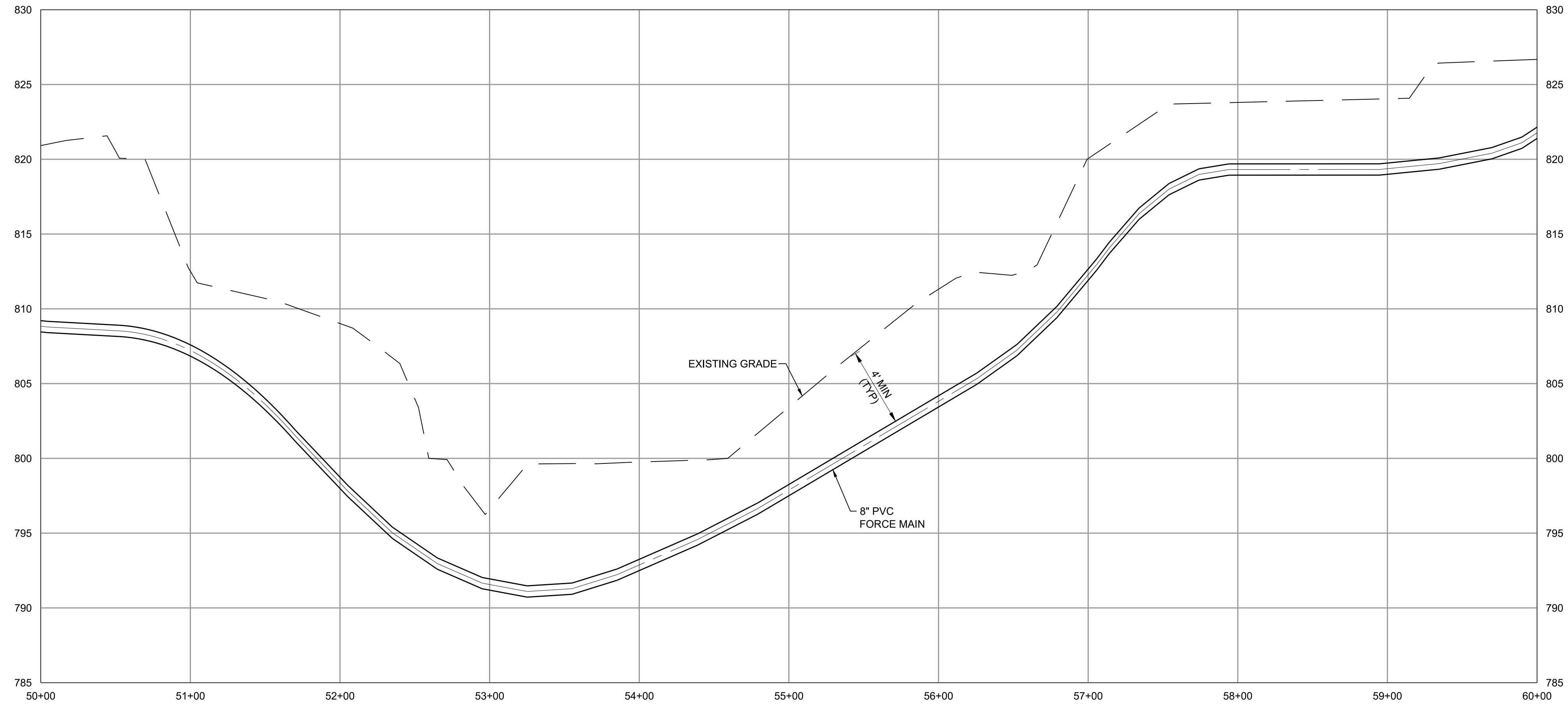
SUBCONSULTANT:



MATCH LINE - STA 50+00
FOR CONTINUATION SEE DWG C-05-075

MATCH LINE - STA 60+00
FOR CONTINUATION SEE DWG C-05-077

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	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

CIVIL

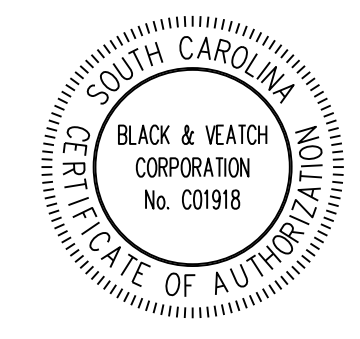
PLAN AND PROFILE
STA 50+00 TO STA 60+00

C-05-076

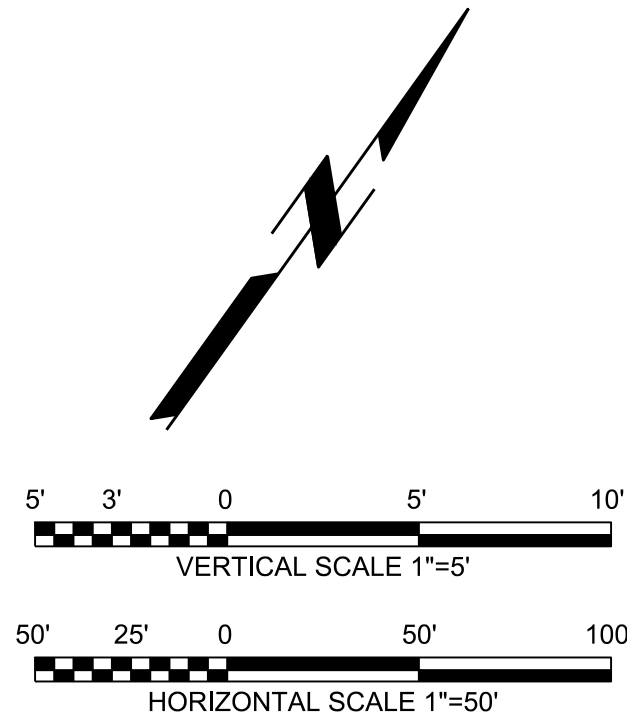
XXX
OF
XXX

PLOTTED: 5/23/2022 4:42:44 PM
FILE: C:\PW\WORKING\B\W_AMERICAS_201562805410381-SEG5-FM-PP-SHT.DWG
FDI:000
D11000

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



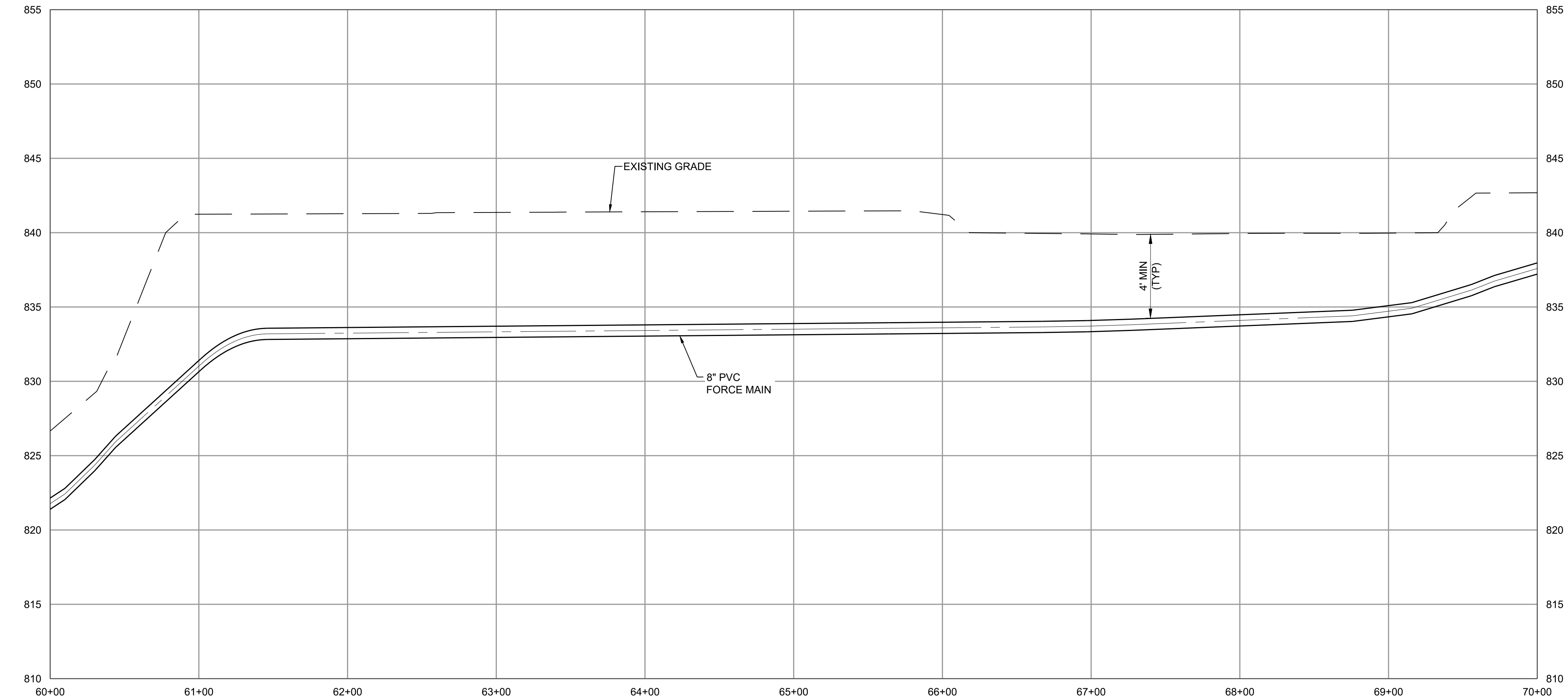
SUBCONSULTANT:



MATCH LINE - STA 60+00
FOR CONTINUATION SEE DWG C-05-076

MATCH LINE - STA 70+00
FOR CONTINUATION SEE DWG C-05-078

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	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 60+00 TO STA 70+00

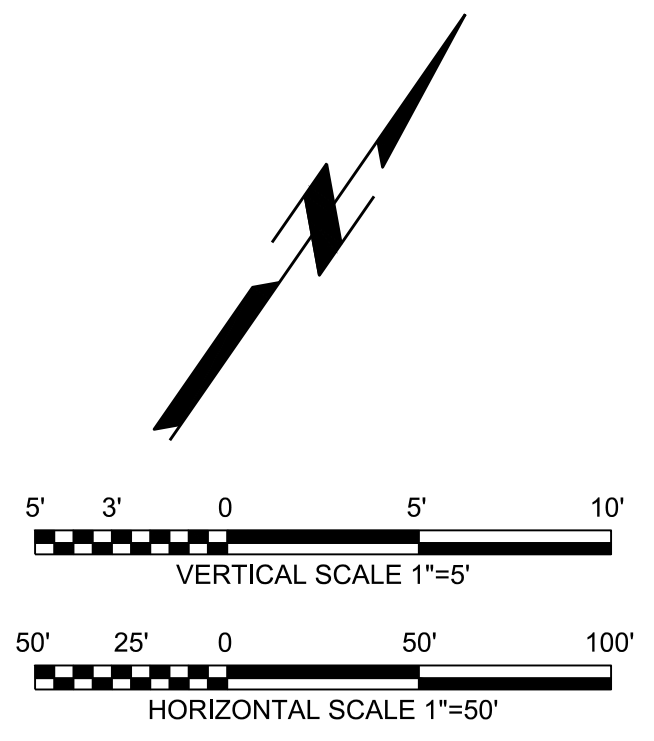
C-05-077

XXX
OF
XXX

PLOTTED: 5/23/2022 4:43:39 PM
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FD1000
D11000

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

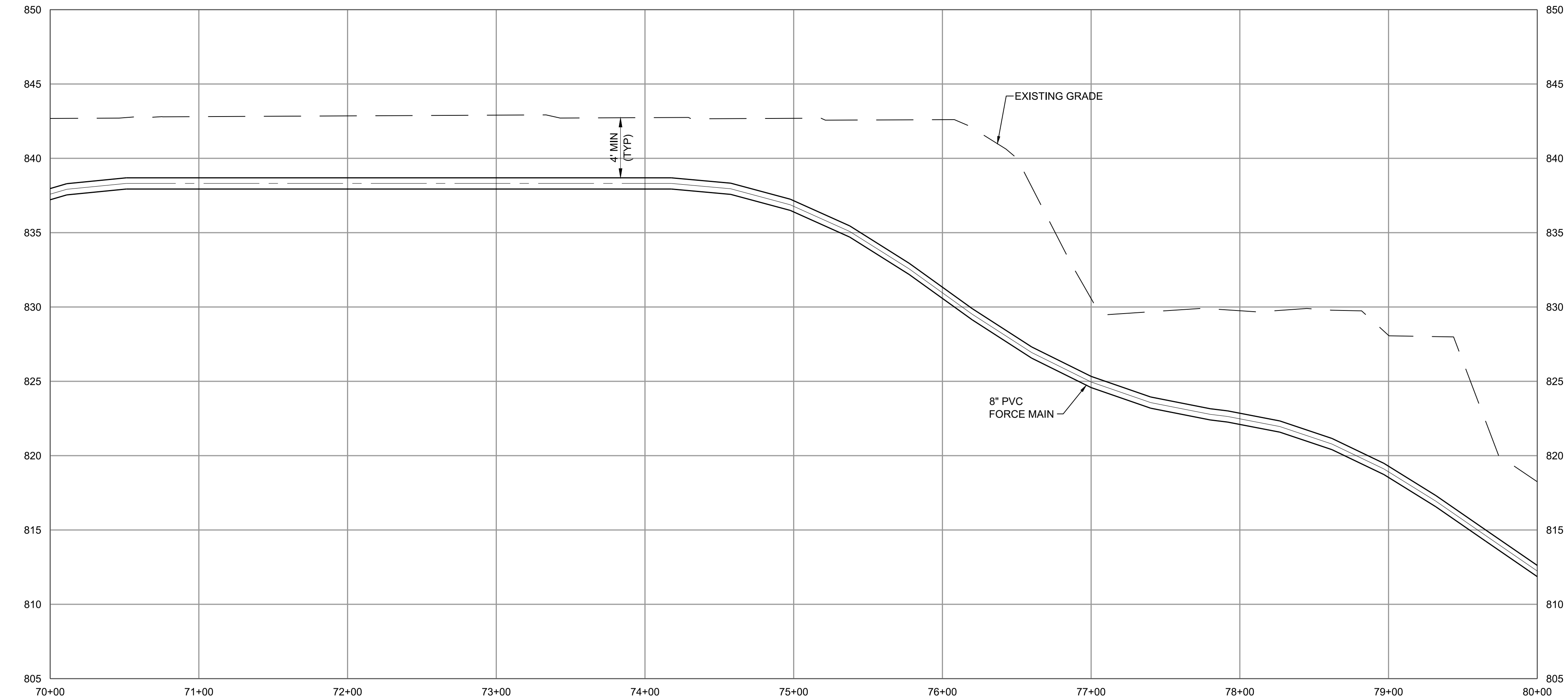
SUBCONSULTANT:



MATCH LINE - STA 70+00
FOR CONTINUATION SEE DWG C-05-077

MATCH LINE - STA 80+00
FOR CONTINUATION SEE DWG C-05-079

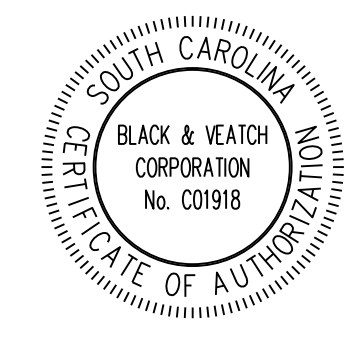
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4" MIN (TYP)

EXISTING GRADE

8" PVC FORCE MAIN



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MM/DD/YY	REVISIONS AND RECORD OF ISSUE
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	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 70+00 TO STA 80+00

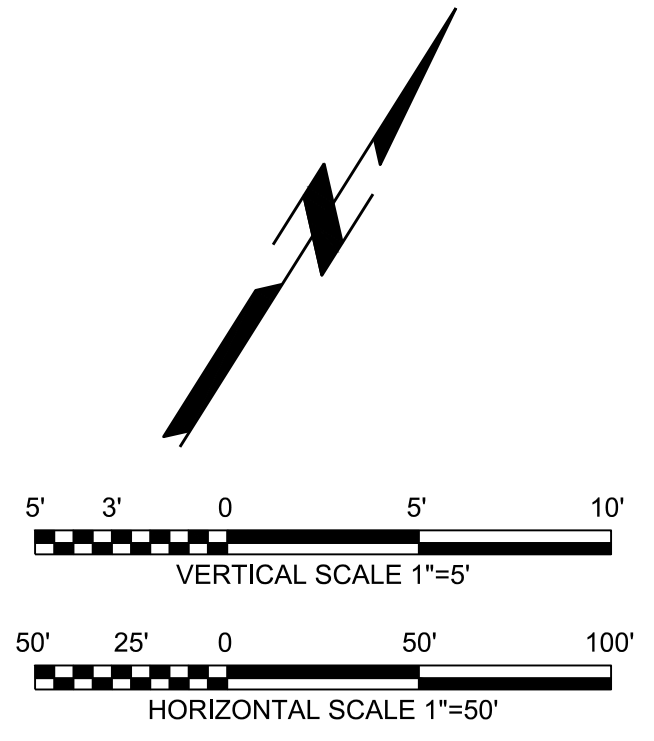
C-05-078

XXX
OF
XXX

PLOTTED: 5/23/2022 4:44:34 PM
FILE: C:\PW\WORKING\B\W_AMERICAS_201562805\410381-SEG5-FM-PP-SHT.DWG
FD1000
D11000

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

SUBCONSULTANT:



MATCH LINE - STA 80+00
FOR CONTINUATION SEE DWG C-05-078

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

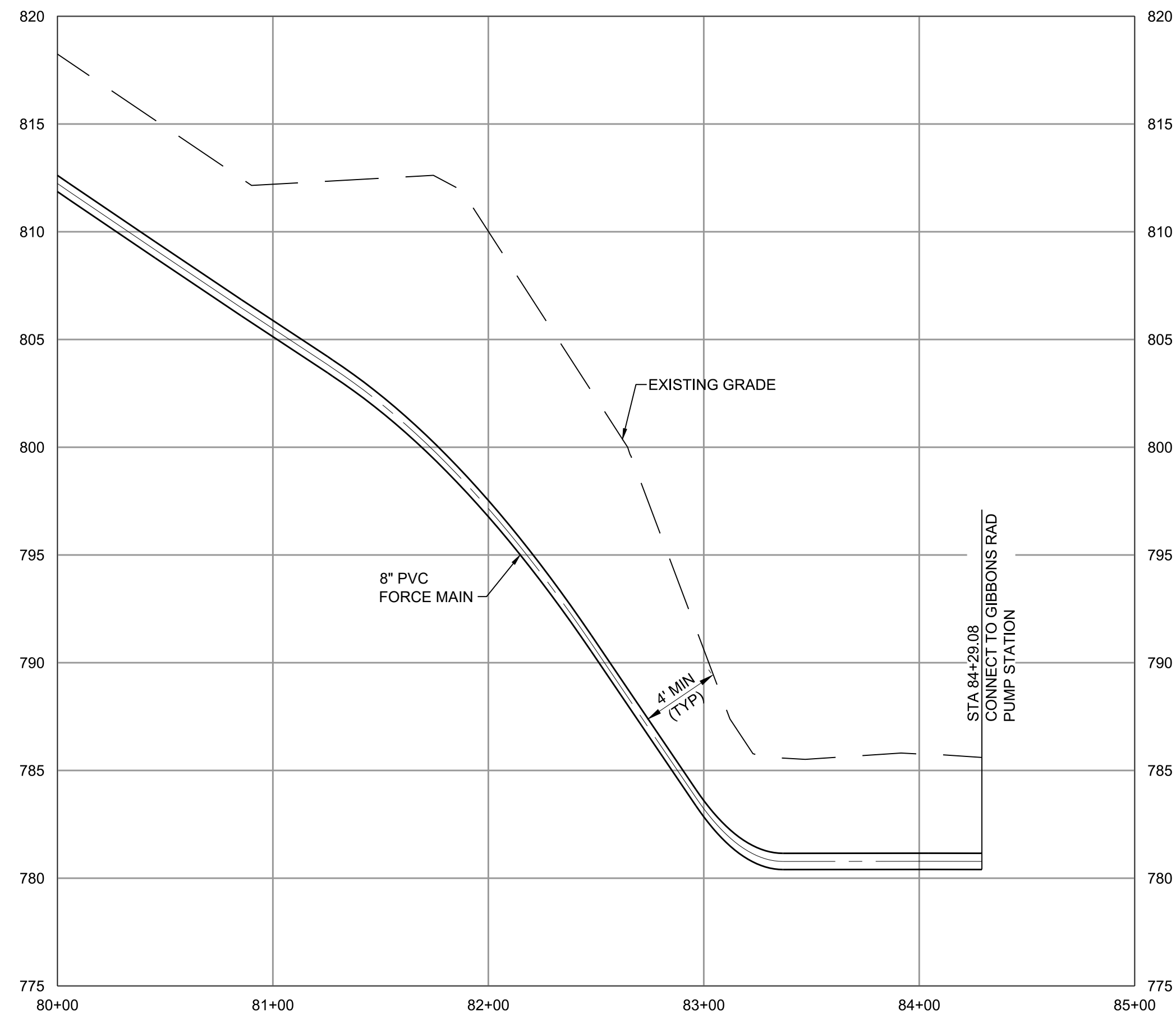
SEGMENT 5
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 80+00 TO STA 84+29

C-05-079

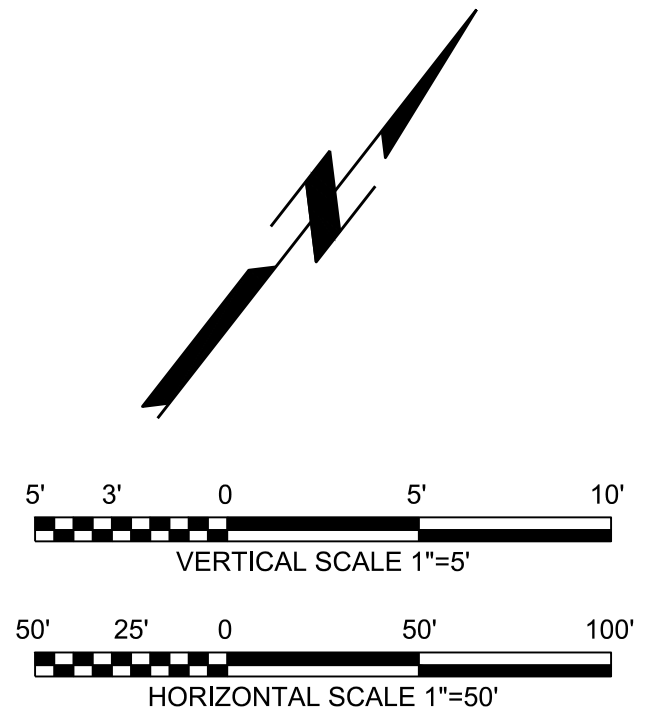
XXX
OF
XXX



(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/23/2022 4:45:29 PM
FILE: C:\PW\WORKING\B\W_AMERICAS_201562805410381-SEG5-FM-PP-SHT.DWG
FDI:000
D11000

SUBCONSULTANT:



MATCH LINE - STA 10+00
FOR CONTINUATION SEE DWG C-06-081

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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

**PRELIMINARY
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CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

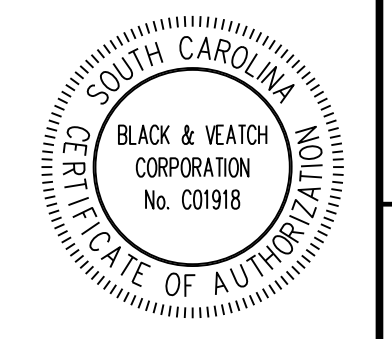
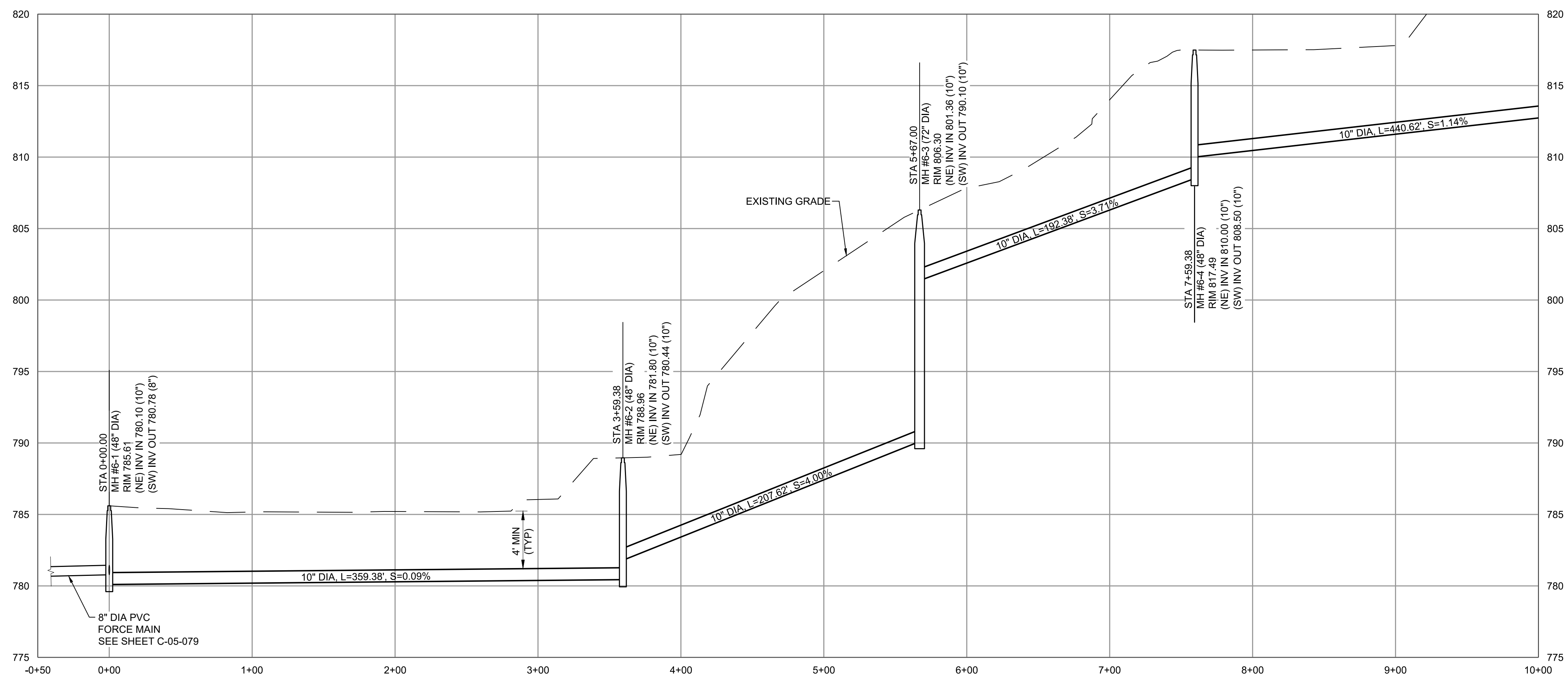
SEGMENT 6
GRAVITY SEWER

CIVIL

PLAN AND PROFILE
STA 0+00 TO STA 10+00

C-06-080

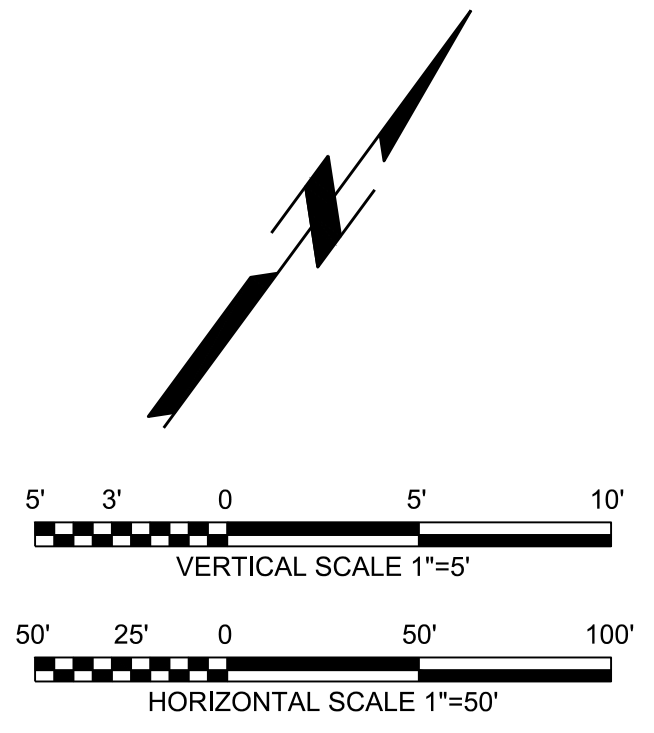
XXX
OF
XXX



(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/31/2022 12:37:51 PM
FILE: C:\PW\WORKING\B\WV_AMERICAS_201562805410381-SEG6-SS-PP-SHT.DWG
FDI:000
D11000

SUBCONSULTANT:



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PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND RECORD OF ISSUE	
DESIGNED:	LDP
DETAILED:	VSK
CHECKED:	RTC
APPROVED:	RTC
DATE:	JUNE 2022
PROJECT NO.:	410381

SEGEMNT 6
GRAVITY SEWER

CIVIL

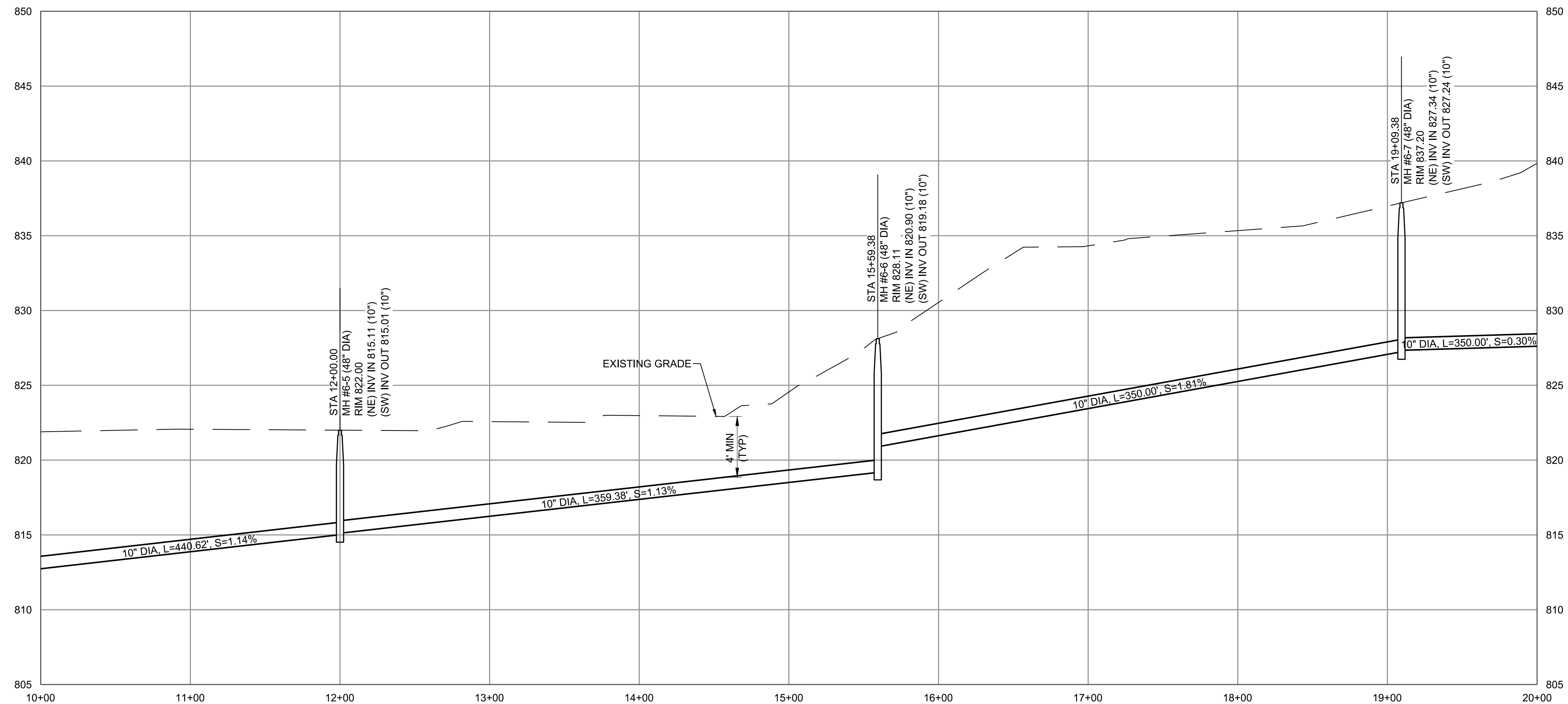
PLAN AND PROFILE
STA 10+00 TO STA 20+00

C-06-081

XXX
OF
XXX

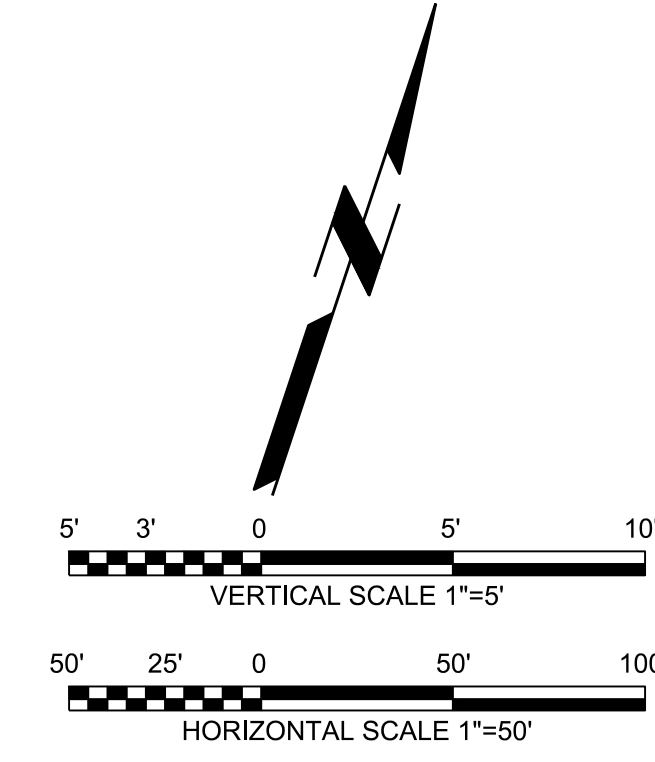
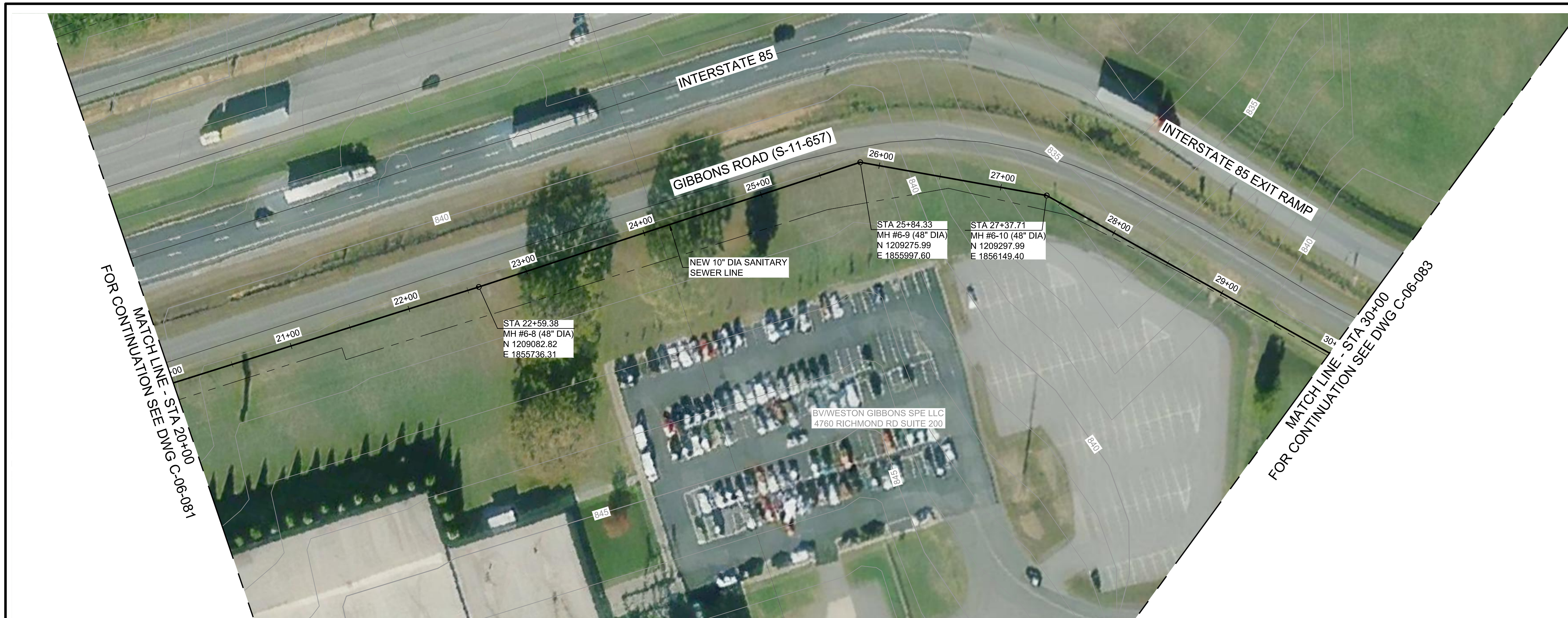


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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/31/2022 12:38:16 PM
 FILE: C:\PW\WORKING\BWW_AMERICAS_201562805\410381-SEG6-SS-PP-SHT.DWG
 PLOT: 000
 D:\1000



BLACK & VEATCH
 Black & Veatch Corporation
 Greenville, South Carolina

SUBCONSULTANT:

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PROJECT GATEWAY
 VOLUME 2 :
 COLLECTIONS

PRELIMINARY NOT FOR CONSTRUCTION

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

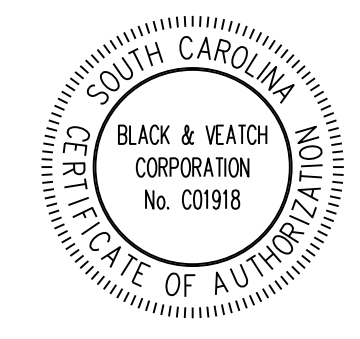
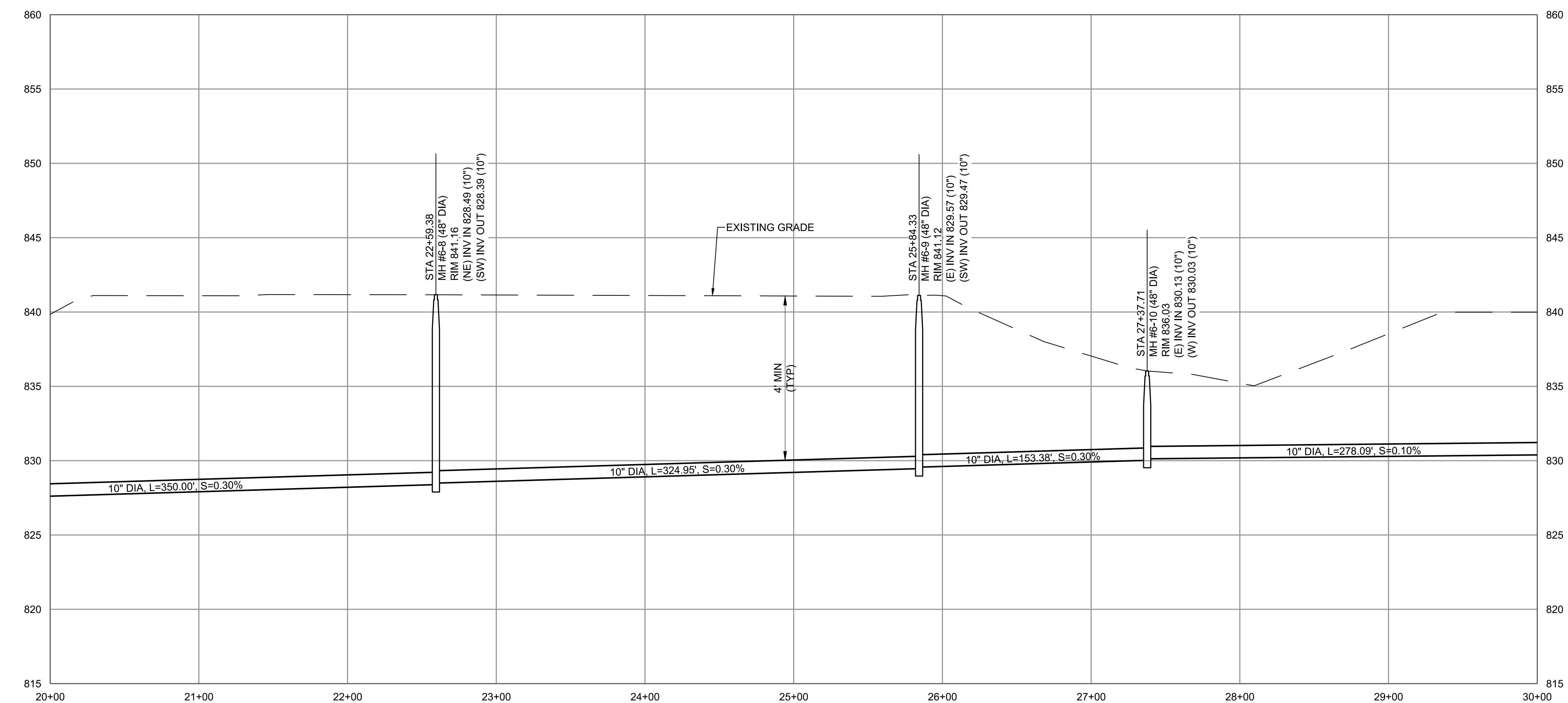
SEGMENT 6
 GRAVITY SEWER

CIVIL

PLAN AND PROFILE
 STA 20+00 TO STA 30+00

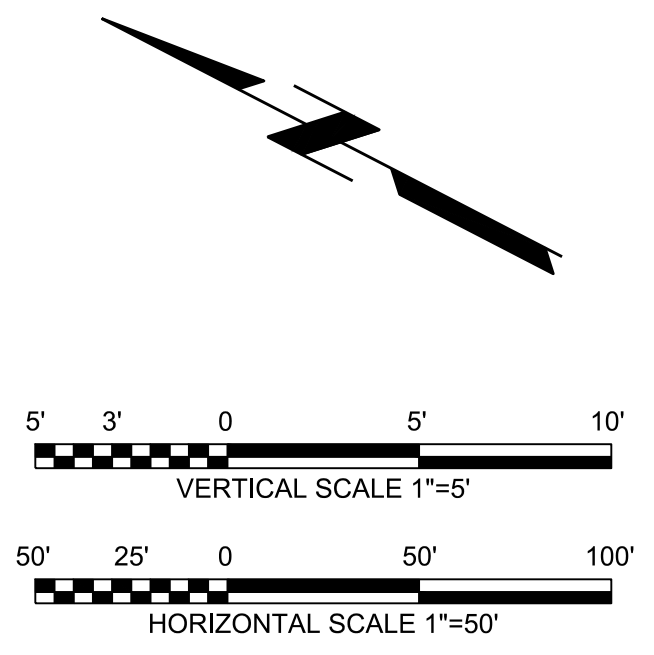
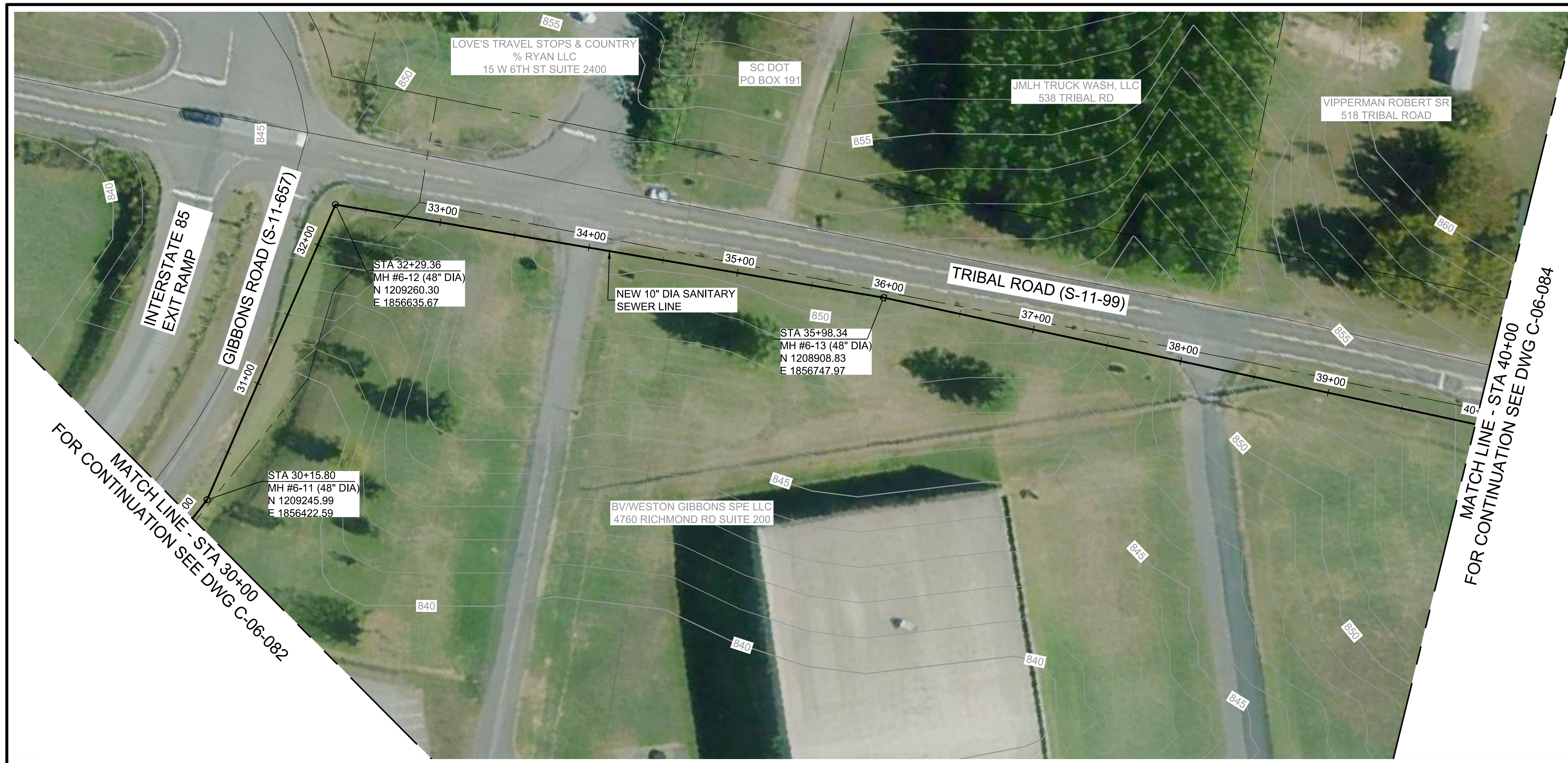
C-06-082 XXX OF XXX

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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 5/31/2022 12:40:47 PM
 FILE: C:\PW\WORKING\B\W_AMERICAS_201562805410381-SEG6-6-SS-PP-SHT.DWG
 PLOT: 000
 D:\1000



SUBCONSULTANT:

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PROJECT GATEWAY
 VOLUME 2 :
 COLLECTIONS

**PRELIMINARY
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 CONSTRUCTION**

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

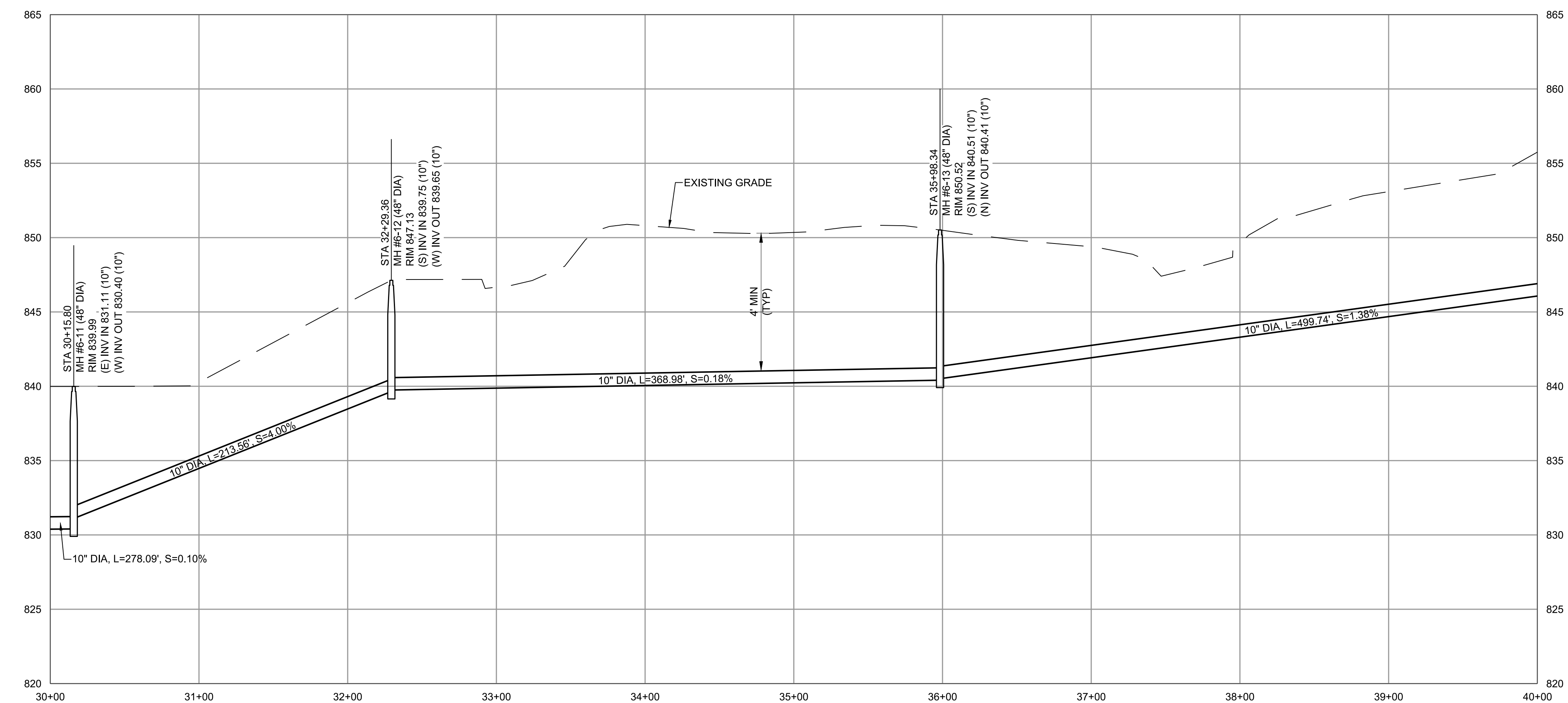
SEGMENT 6
 GRAVITY SEWER

CIVIL

PLAN AND PROFILE
 STA 30+00 TO STA 40+00

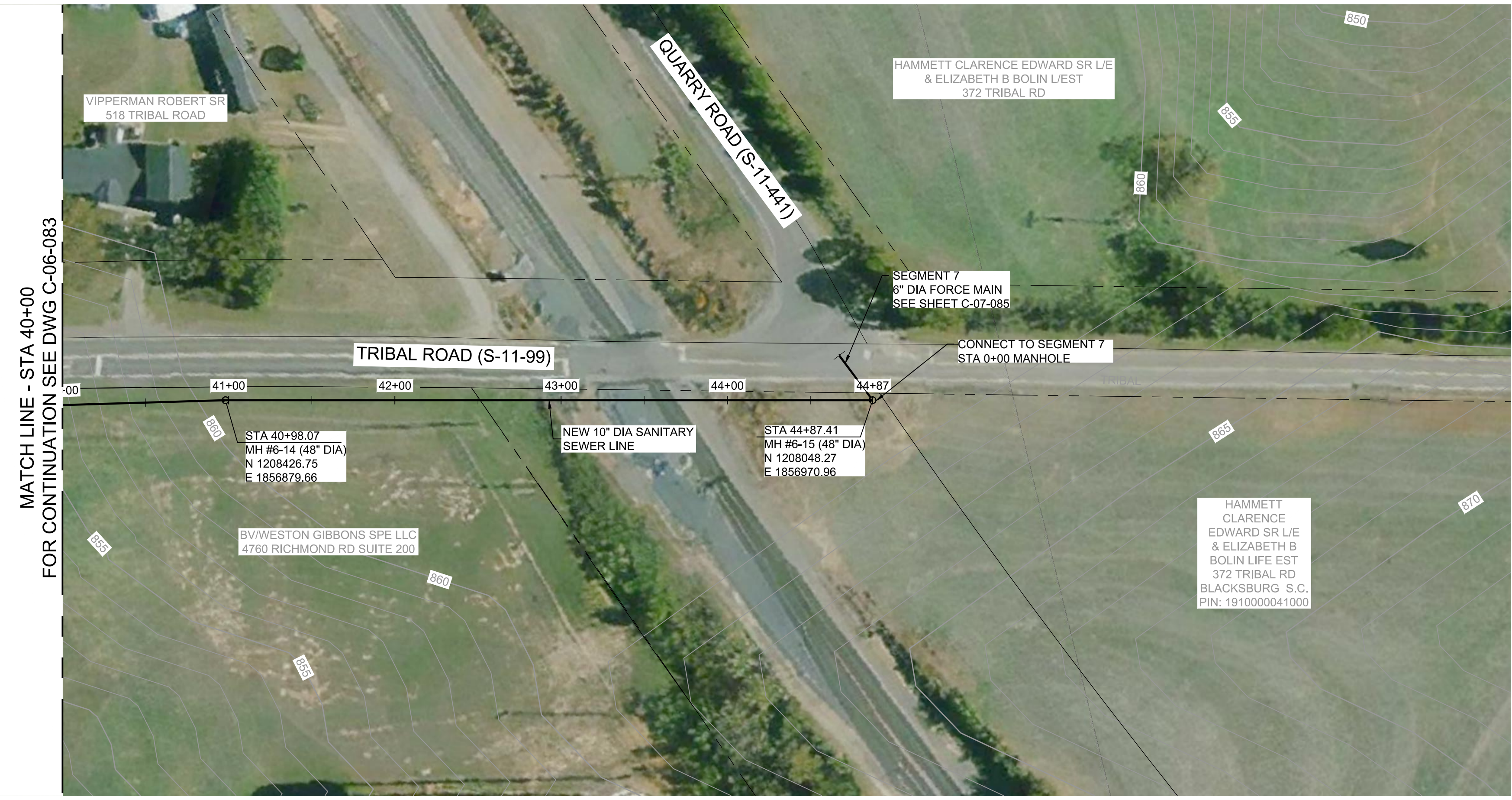
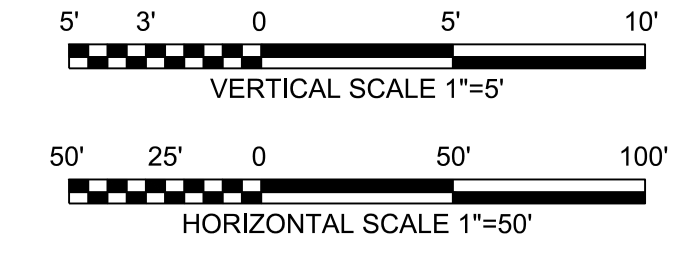
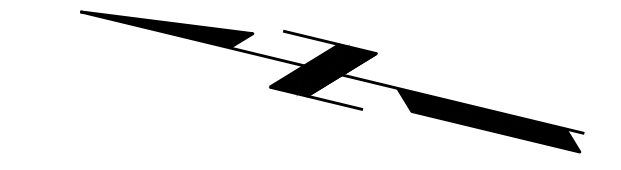
C-06-083 XXX
 OF
 XXX

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PLOTTED: 5/31/2022 12:42:18 PM
 FILE: C:\PW\WORKING\B\W_AMERICAS_201562805\410381-SEG6-6-SS-PP-SHT.DWG
 PLOT: 1000
 D:\1000

SUBCONSULTANT:



MATCH LINE - STA 40+00
FOR CONTINUATION SEE DWG C-06-083

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VOLUME 2 :
COLLECTIONS

PRELIMINARY NOT FOR CONSTRUCTION

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: VSK
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

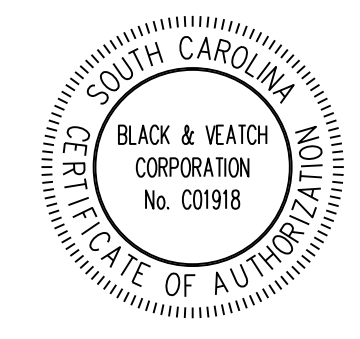
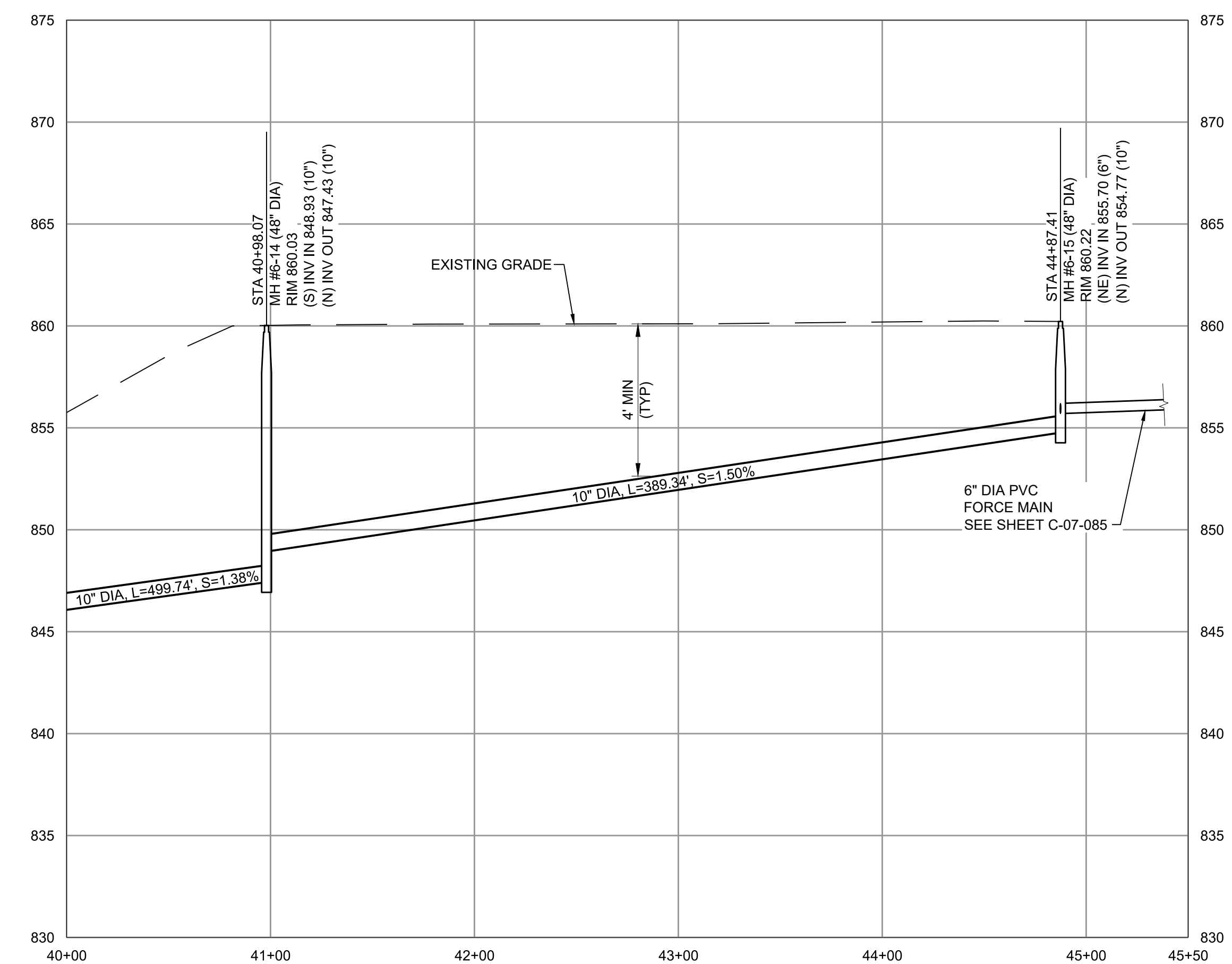
SEGMENT 6
GRAVITY SEWER

CIVIL

PLAN AND PROFILE
STA 40+00 TO STA 45+39

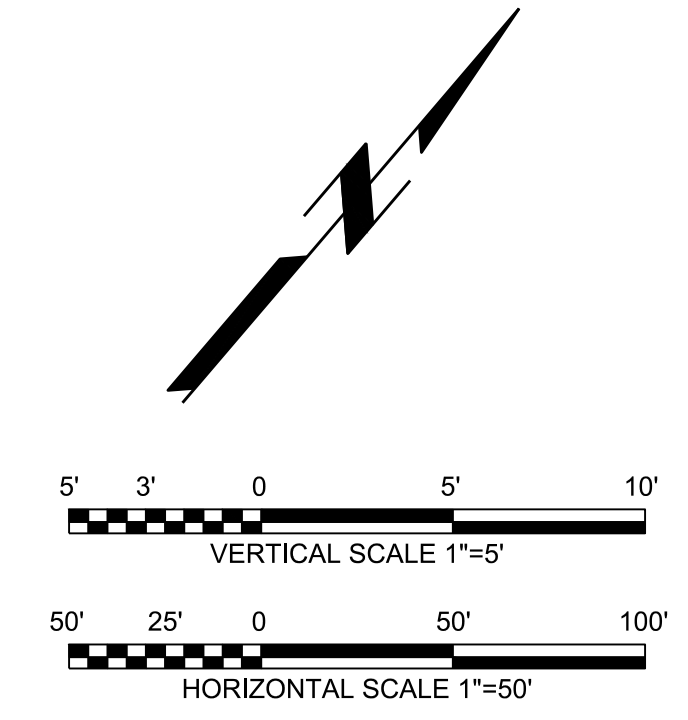
C-06-084

XXX
OF
XXX





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Black & Veatch Corporation
Greenville, South Carolina

SUBCONSULTANT:

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PUBLIC WORKS

PROJECT GATEWAY
VOLUME 2 :
COLLECTIONS

PRELIMINARY
NOT FOR
CONSTRUCTION

MM/DD/YY	REVISIONS AND RECORD OF ISSUE
	DESIGNED: LDP
	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

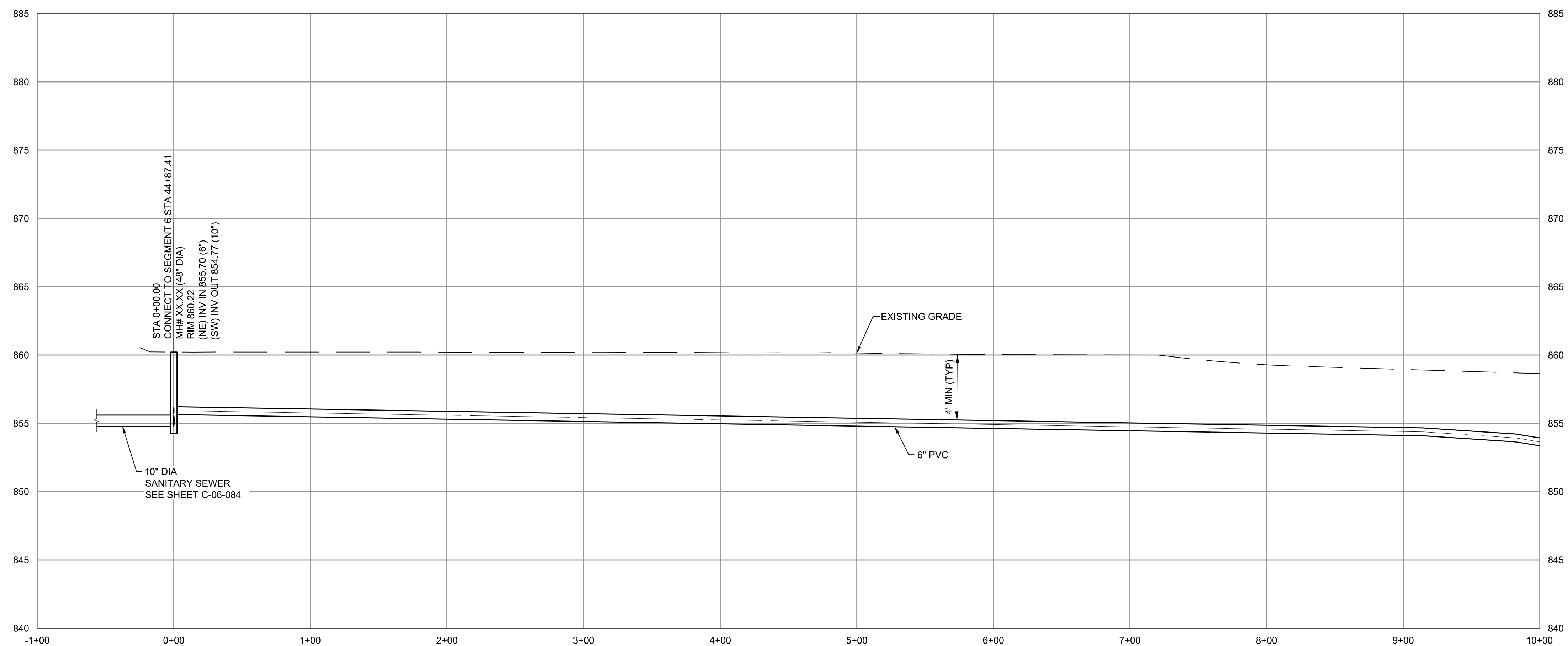
SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 0+00 TO STA 10+00

C-07-085

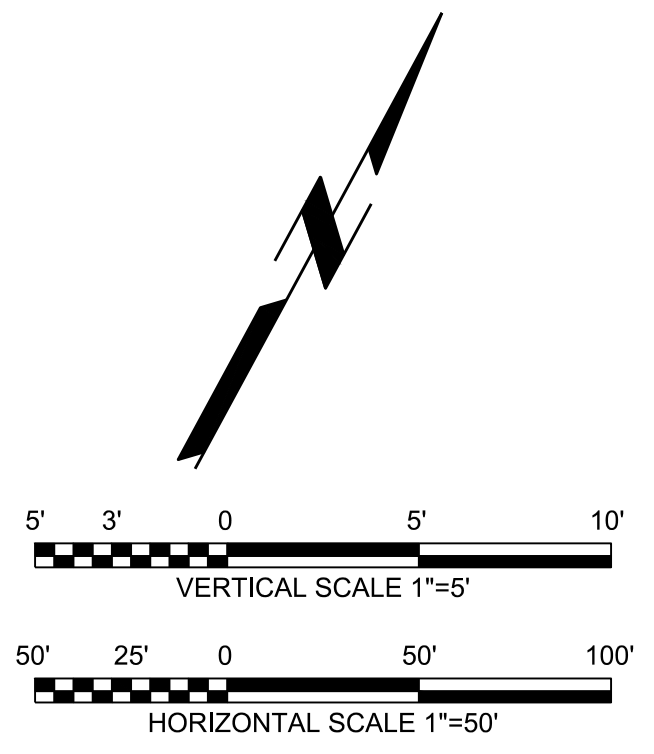
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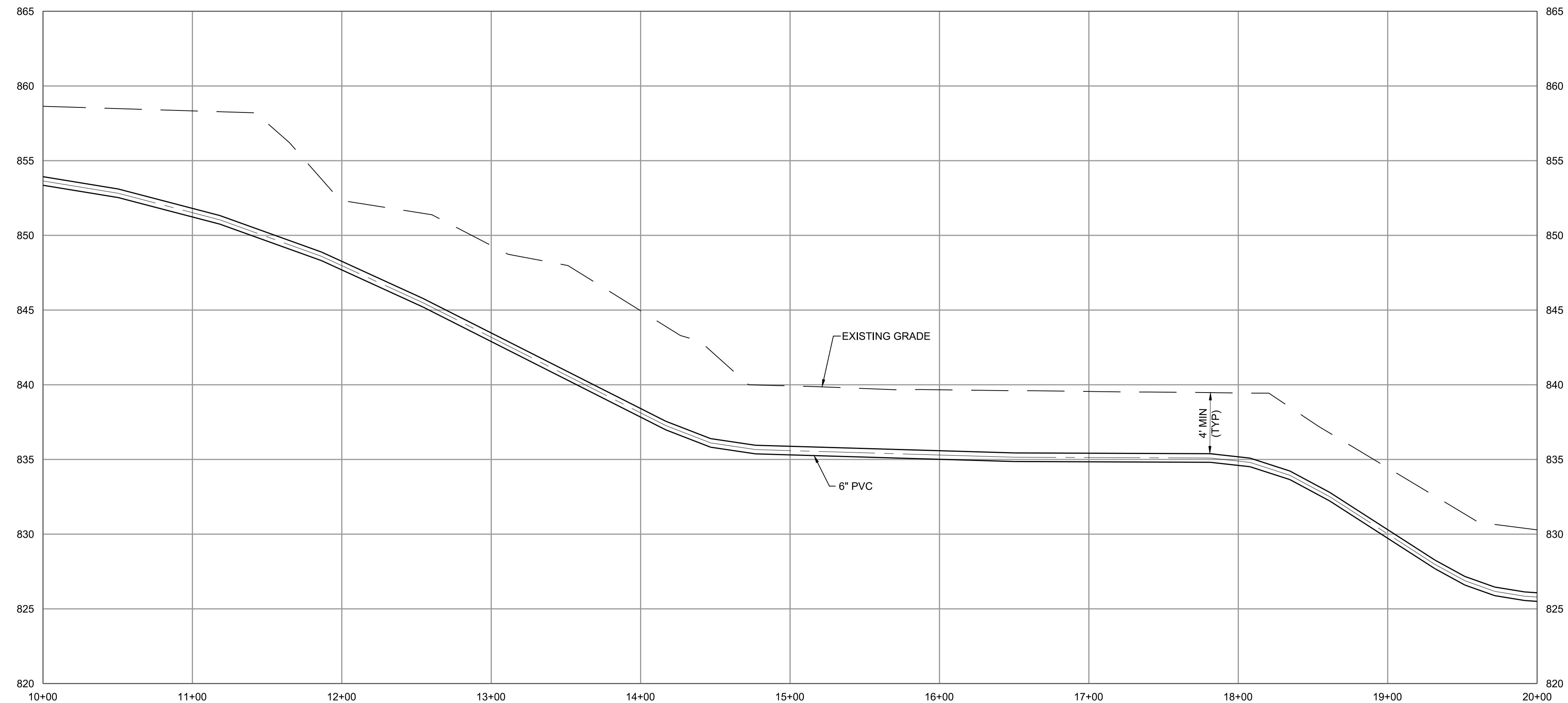
SUBCONSULTANT:



MATCH LINE - STA 10+00
FOR CONTINUATION SEE DWG C-07-085

MATCH LINE - STA 20+00
FOR CONTINUATION SEE DWG C-07-087

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	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 10+00 TO STA 20+00

C-07-086

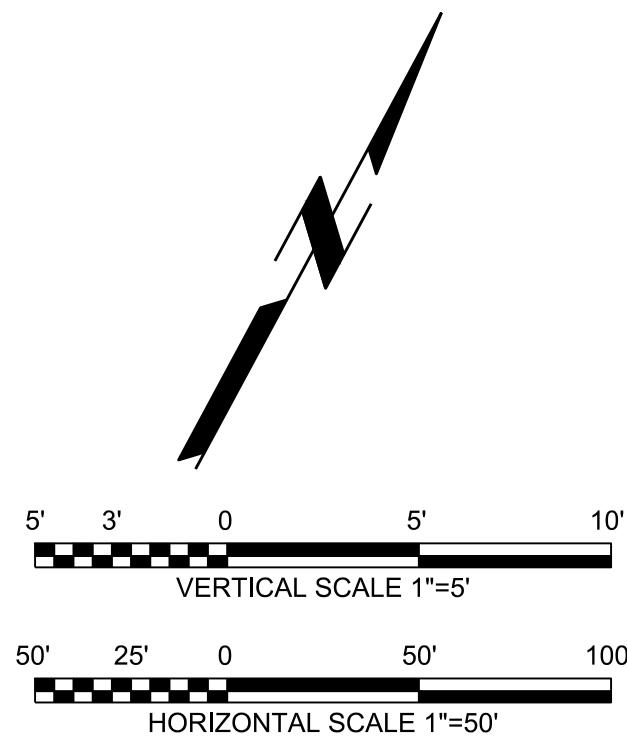
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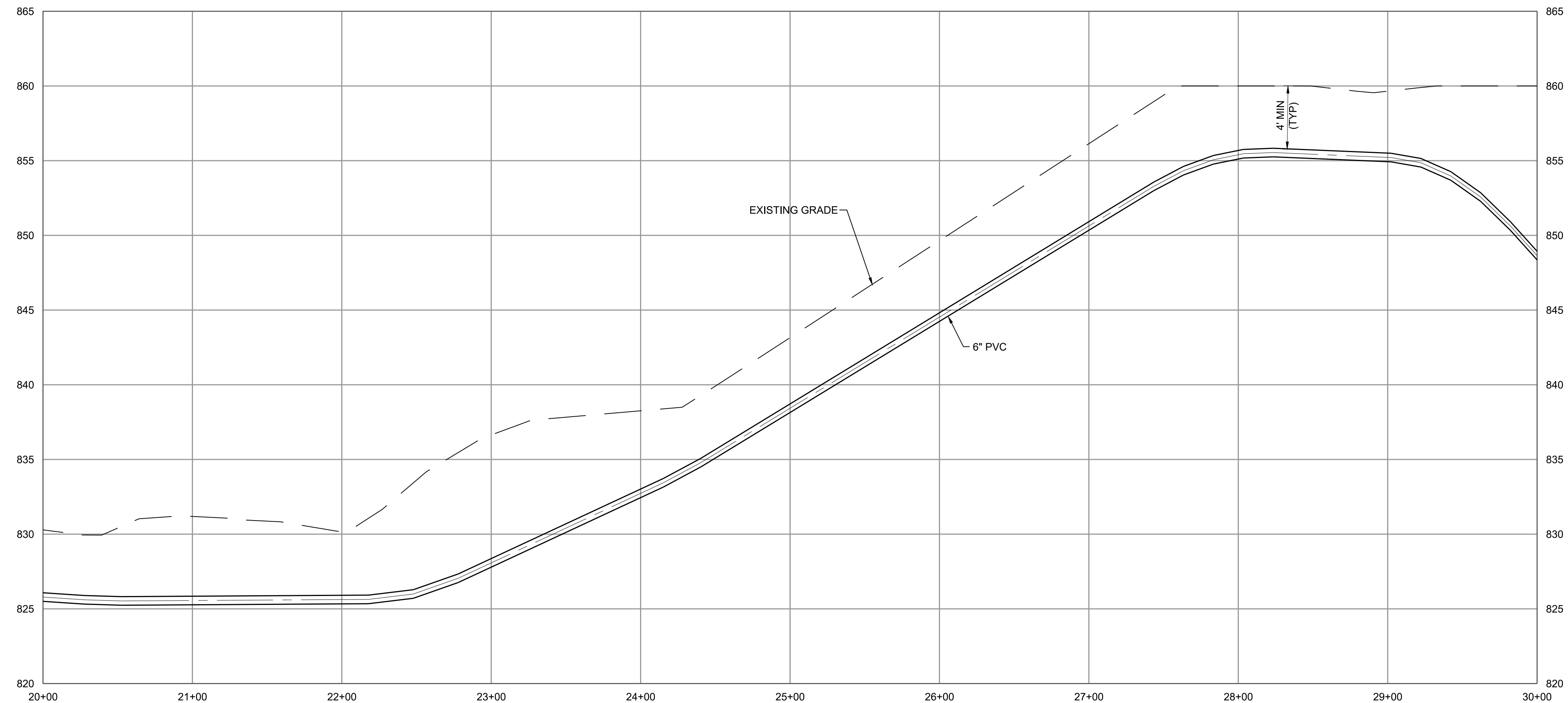
SUBCONSULTANT:



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FOR CONTINUATION SEE DWG C-07-086

MATCH LINE - STA 30+00
FOR CONTINUATION SEE DWG C-07-088

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	DETAILED: FLL
	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 20+00 TO STA 30+00

C-07-087

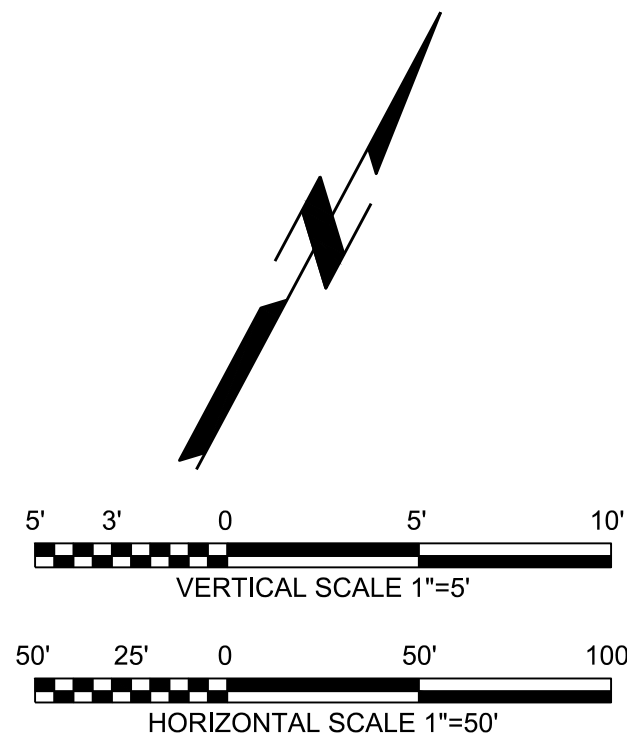
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SUBCONSULTANT:



MATCH LINE - STA 30+00
FOR CONTINUATION SEE DWG C-07-087

MATCH LINE - STA 40+00
FOR CONTINUATION SEE DWG C-07-089

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	PROJECT NO.: 410381

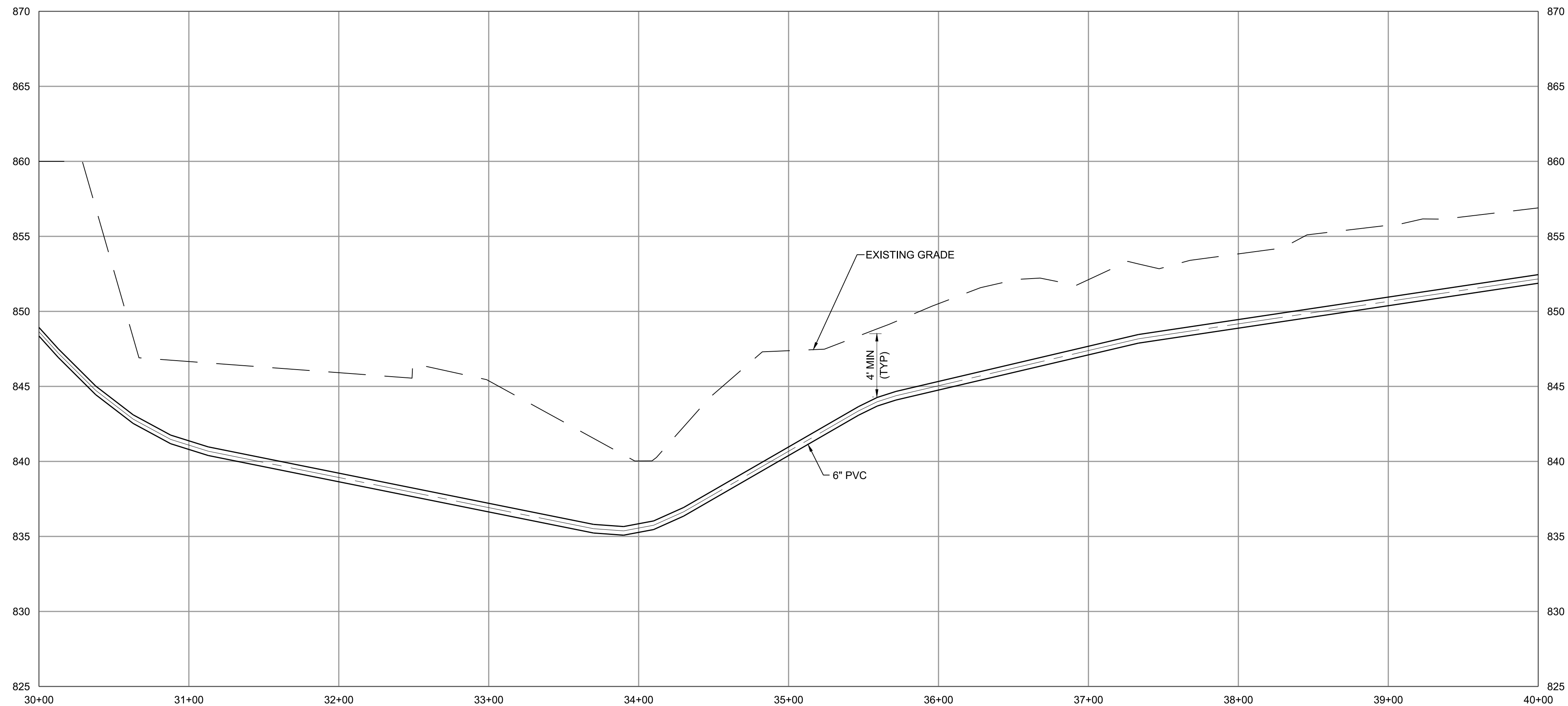
SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 30+00 TO STA 40+00

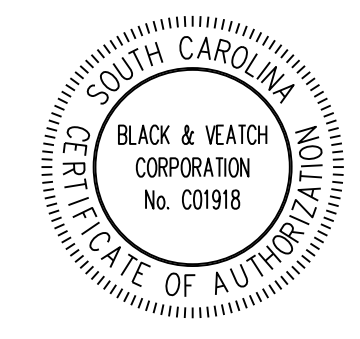
C-07-088

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OF
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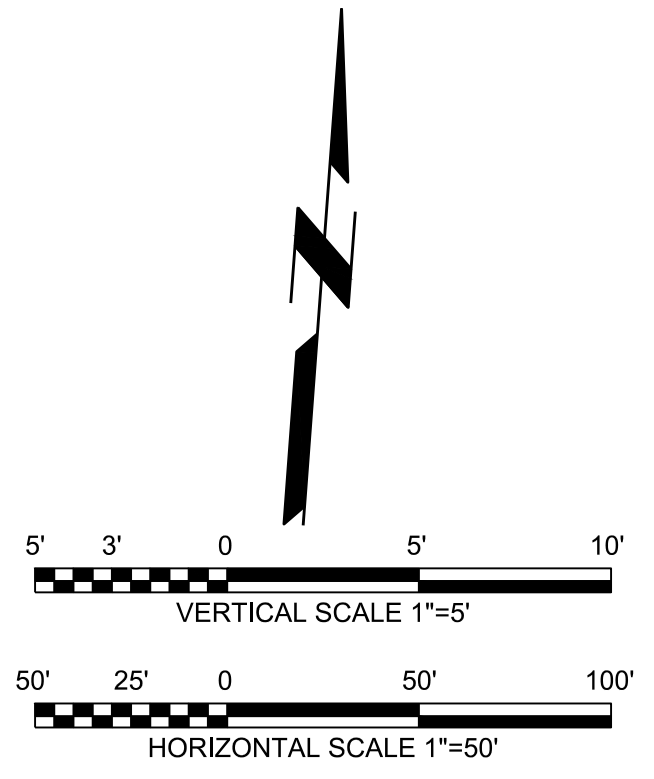


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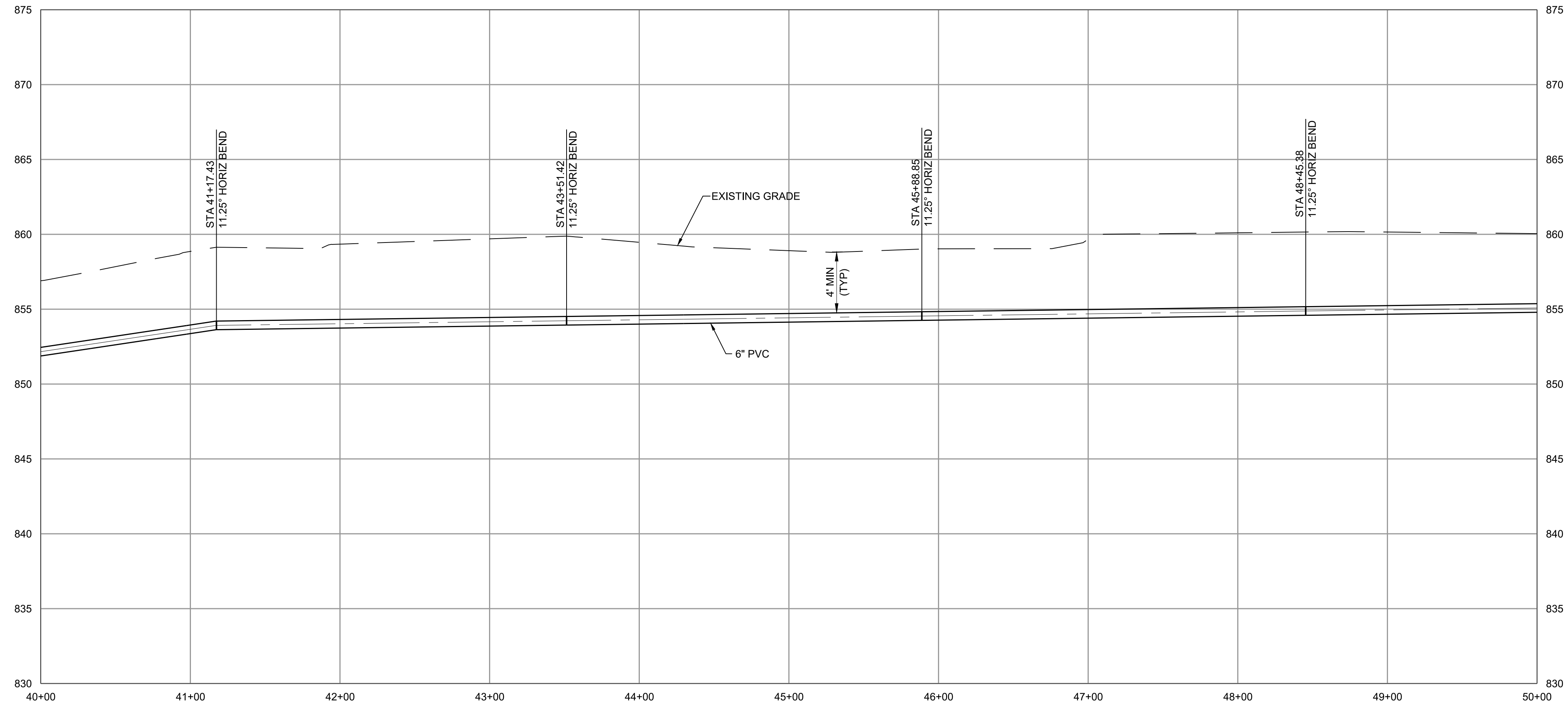
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	CHECKED: RTC
	APPROVED: RTC
	DATE: JUNE 2022

PROJECT NO.: 410381

SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 40+00 TO STA 50+00

C-07-089

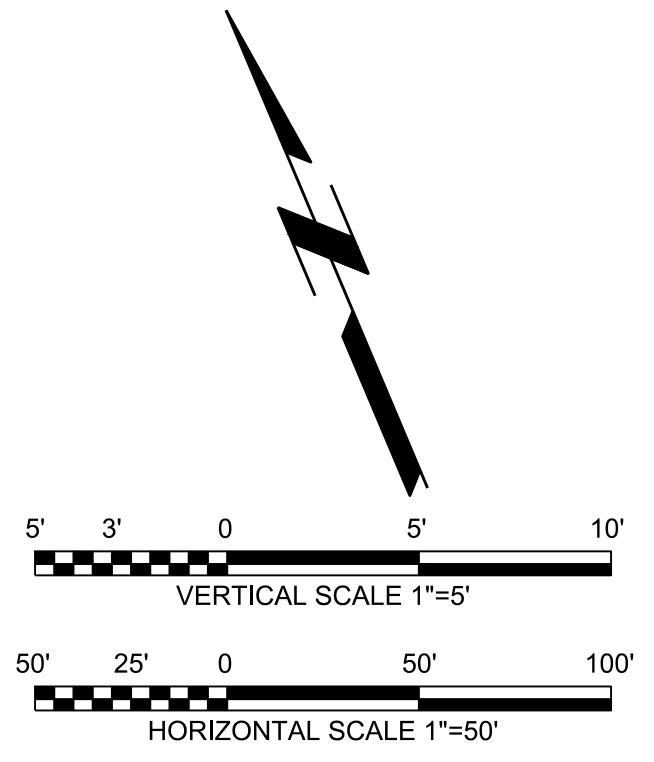
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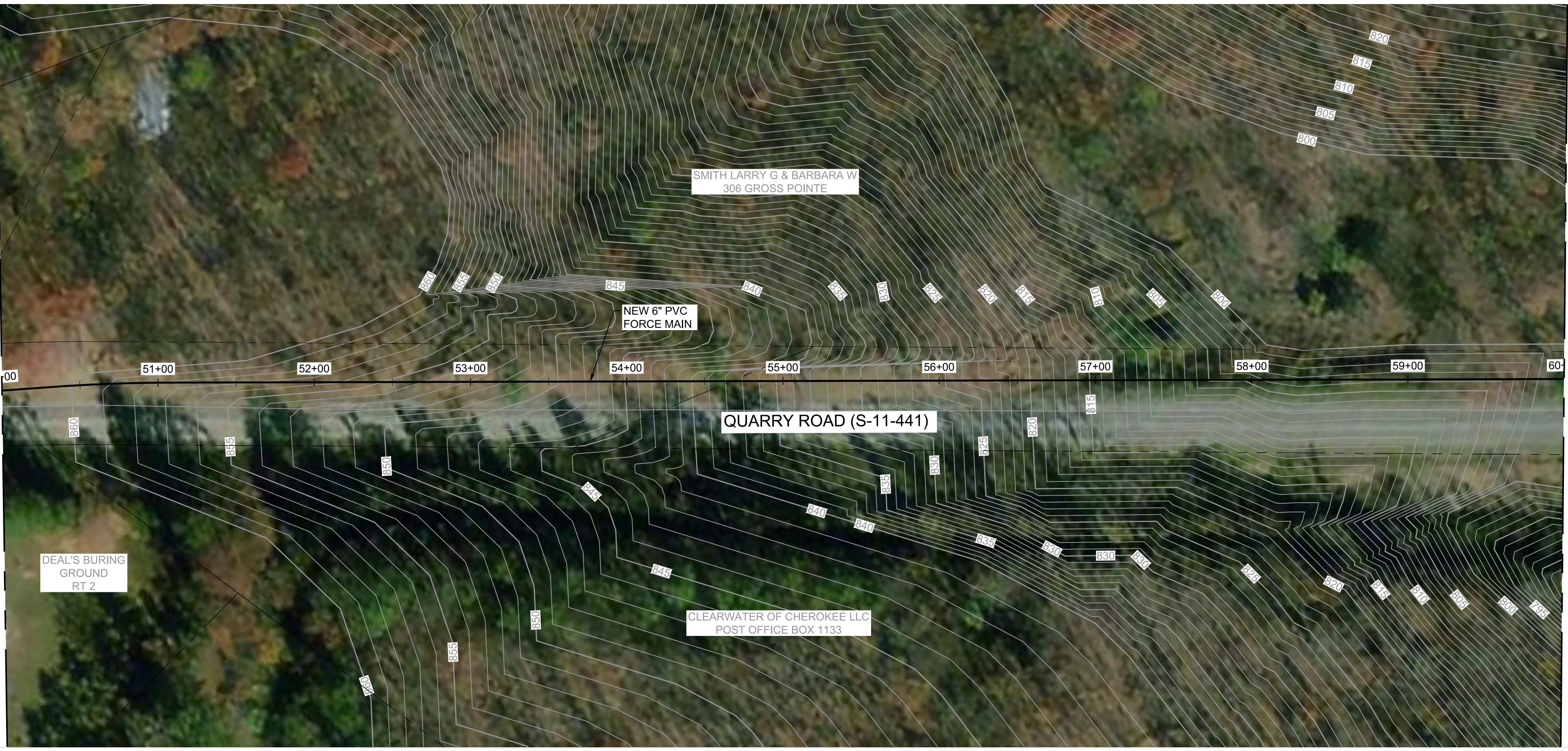
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SUBCONSULTANT:

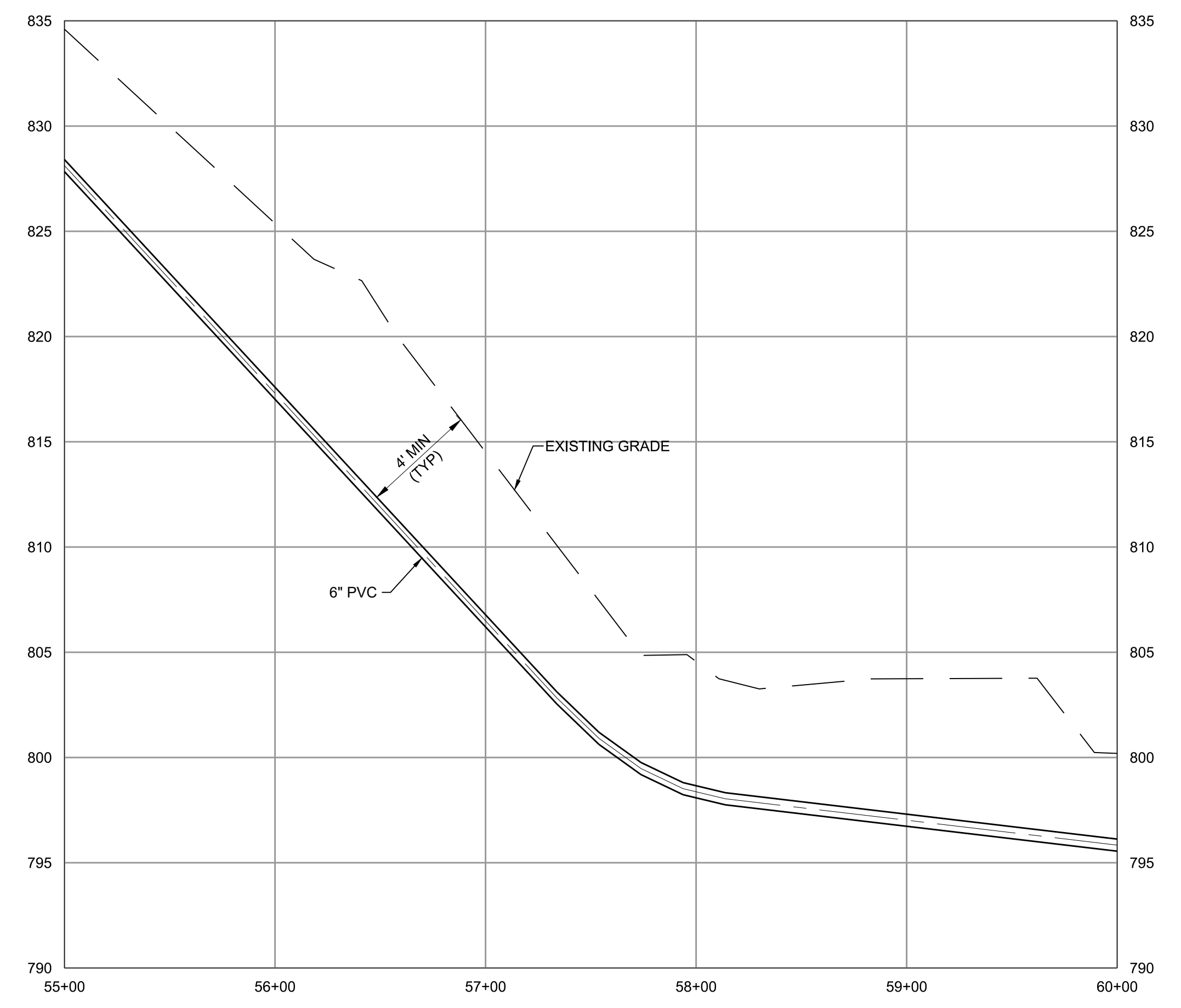
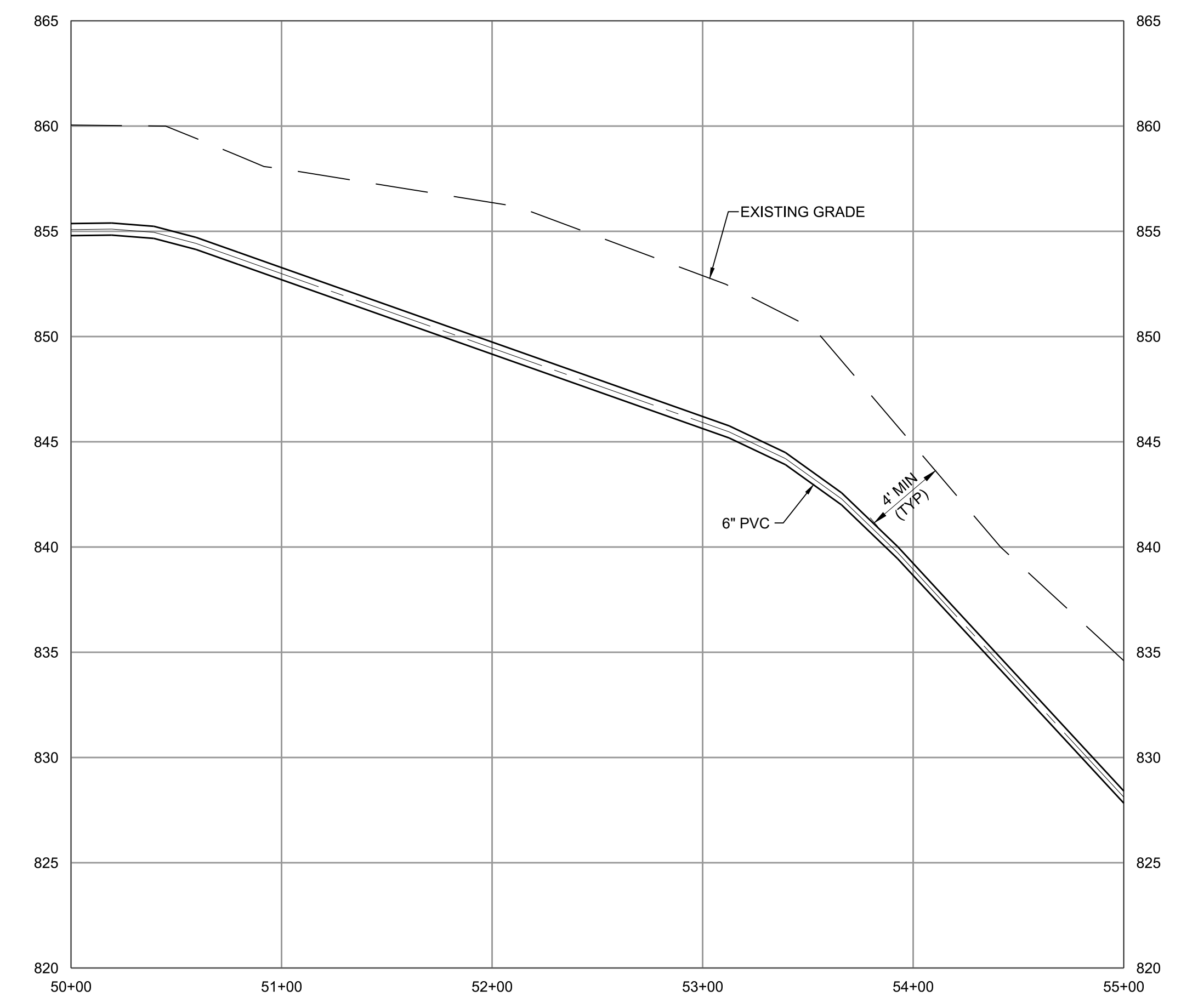


MATCH LINE - STA 50+00
FOR CONTINUATION SEE DWG C-07-089



MATCH LINE - STA 60+00
FOR CONTINUATION SEE DWG C-07-091

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	DETAILED: FLL
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	APPROVED: RTC
	DATE: JUNE 2022
	PROJECT NO.: 410381

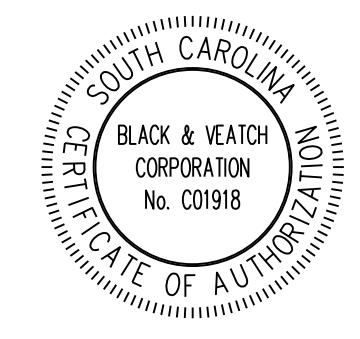
SEGMENT 7
FORCE MAIN

CIVIL

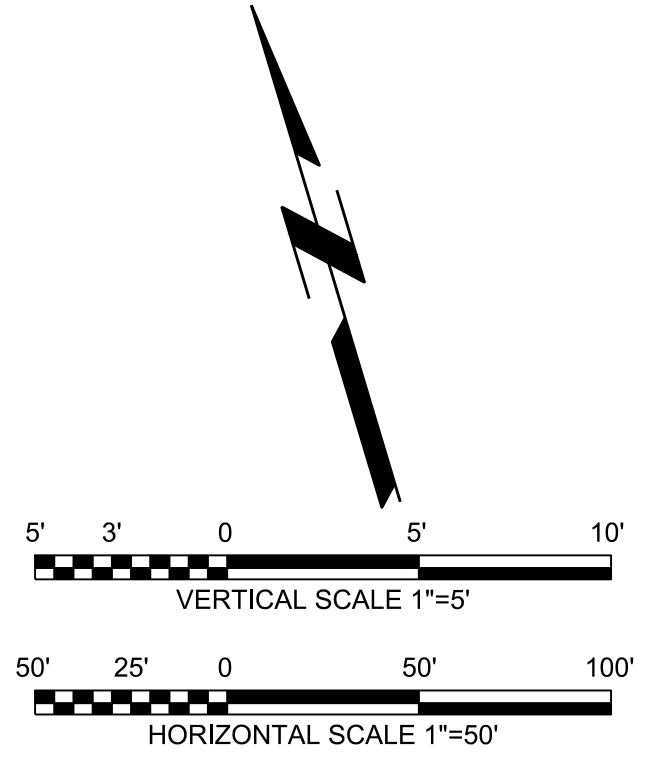
PLAN AND PROFILE
STA 50+00 TO STA 60+00

C-07-090

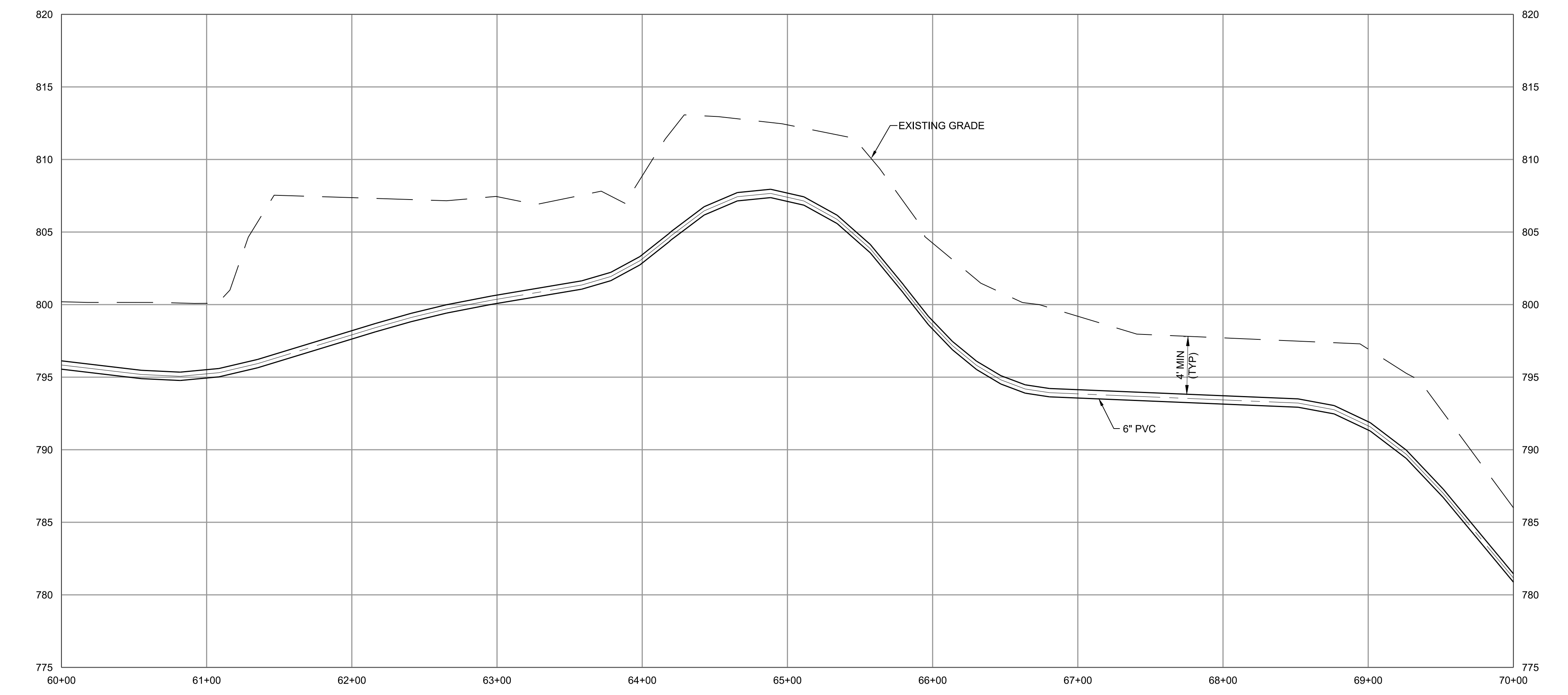
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	DATE: JUNE 2022
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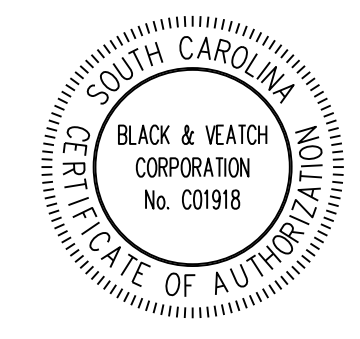
SEGMENT 7
FORCE MAIN

CIVIL

PLAN AND PROFILE
STA 60+00 TO STA 70+00

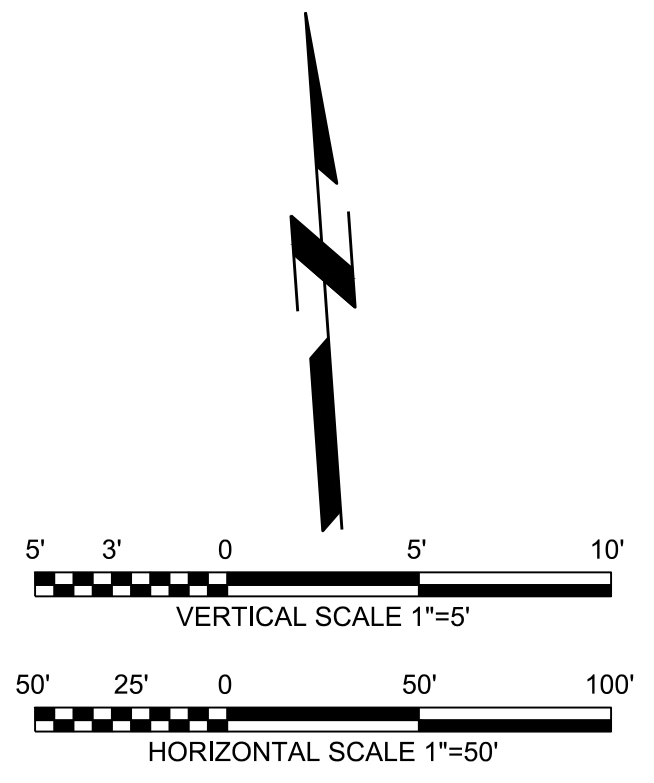
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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4



BLACK & VEATCH
 Black & Veatch Corporation
 Greenville, South Carolina

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PROJECT GATEWAY
 VOLUME 2 :
 COLLECTIONS

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	PROJECT NO.: 410381

SEGMENT 7
 FORCE MAIN

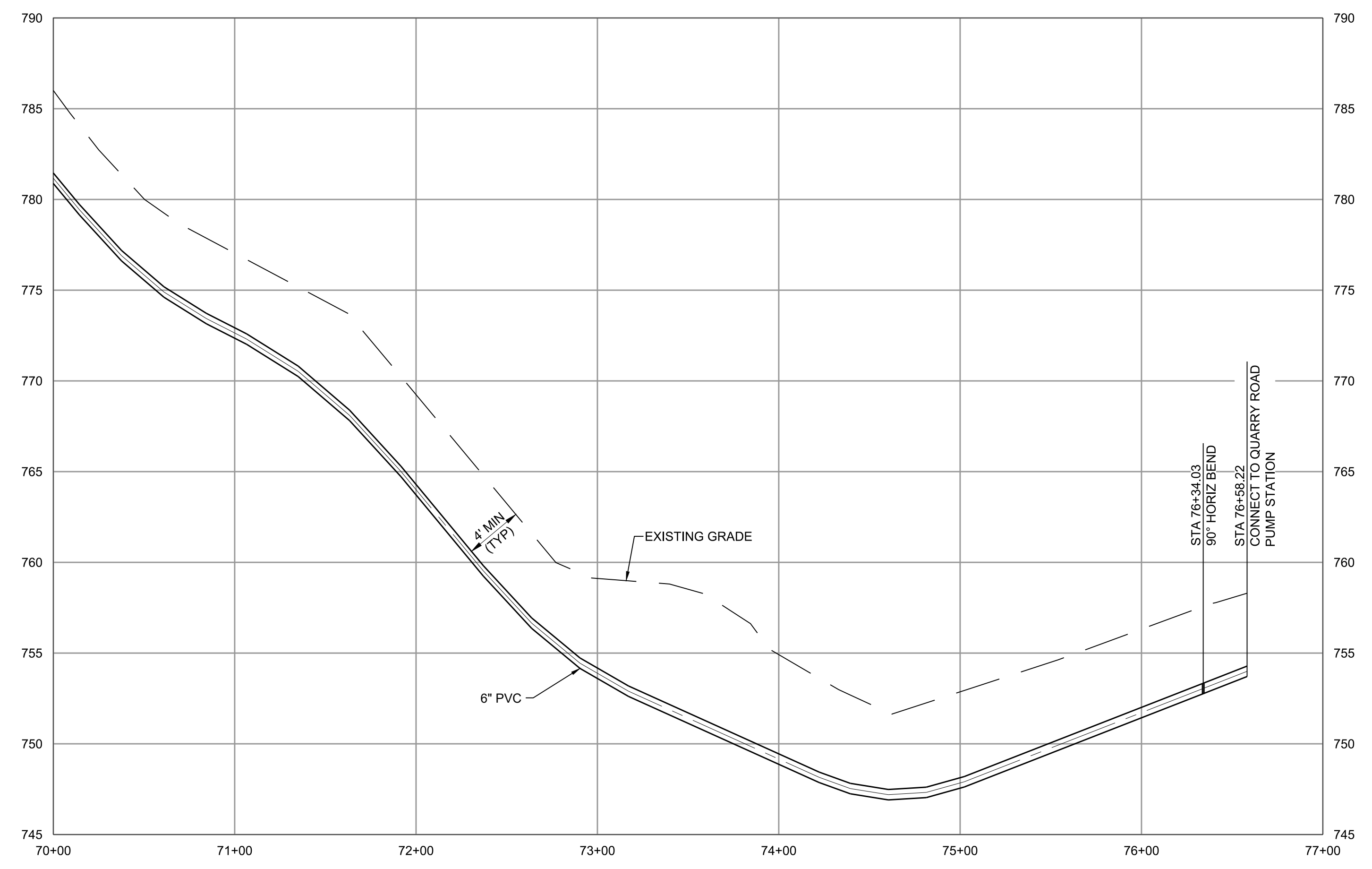
CIVIL

PLAN AND PROFILE
 STA 70+00 TO STA 76+59

C-07-092

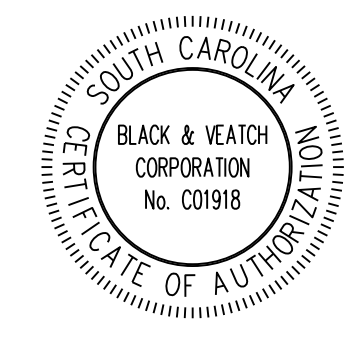
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PROJECT GATEWAY VOLUME 2 : COLLECTIONS

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PROJECT NO.: 410381	

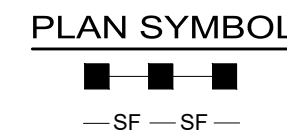
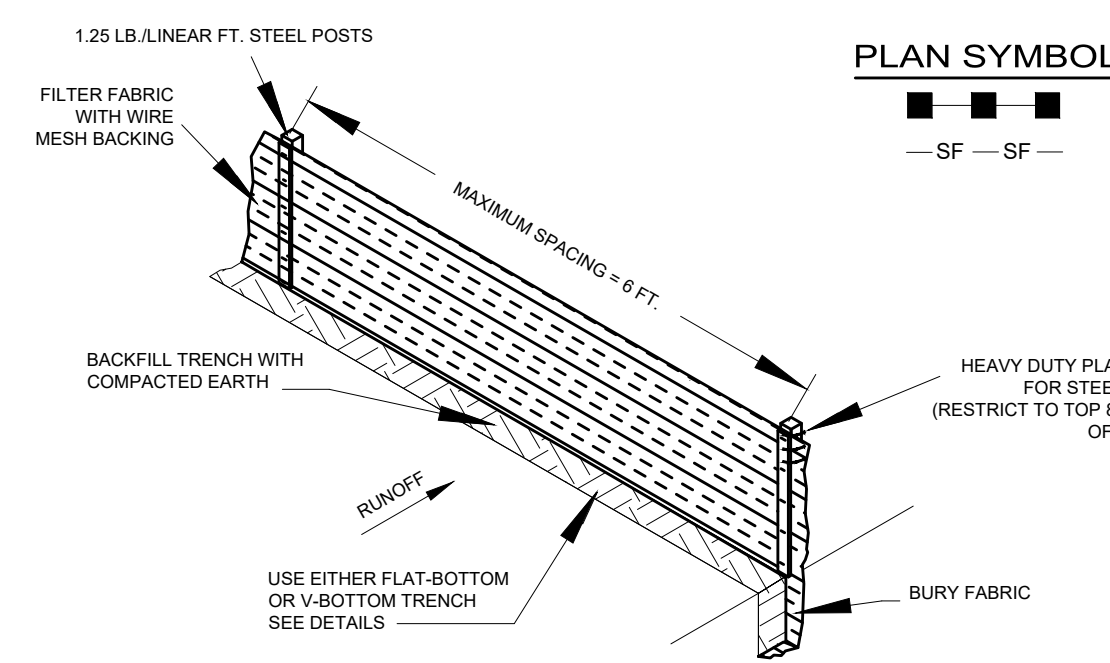
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EROSION CONTROL DETAILS (2 OF 2)

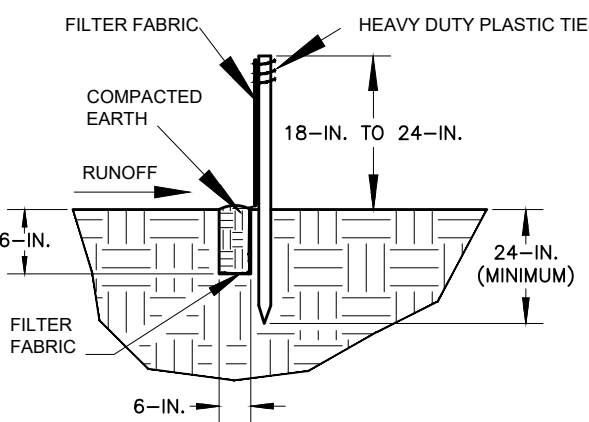
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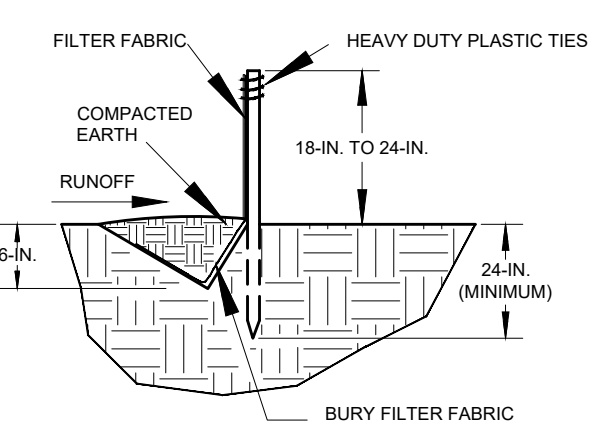
SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



SILT FENCE - GENERAL NOTES

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100-FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL (PERPENDICULAR) TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
- WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP.
- OVERLAP SILT FENCE BY INSTALLING 3-FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES, OR
- OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

SILT FENCE - POST REQUIREMENTS

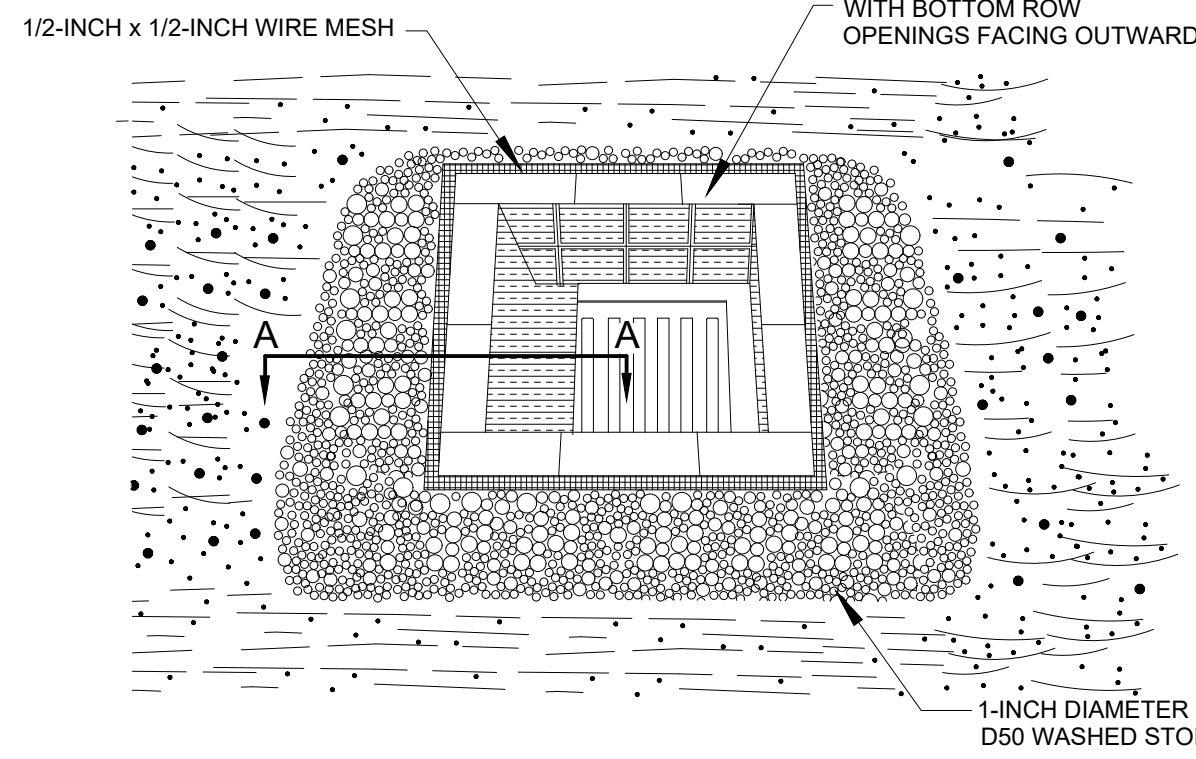
- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
- COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI
- INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
- WEIGHT 1.25 POUNDS PER FOOT (± 8%)
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6-FEET ON CENTER.

SILT FENCE - INSPECTION & MAINTENANCE

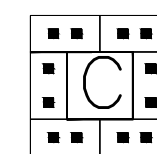
- THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE-BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.
- CHECK FOR TEARS WITHIN THE SILT FENCE. AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVE DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.
- SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

SILT FENCE - FABRIC REQUIREMENTS

- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC WITH WIRE MESH BACKING THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
- COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER.
- FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION.
- FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
- HAVE A MINIMUM WIDTH OF 36-INCHES.
- USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL) APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
- FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
- FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.



PLAN SYMBOL



CROSS SECTION A-A

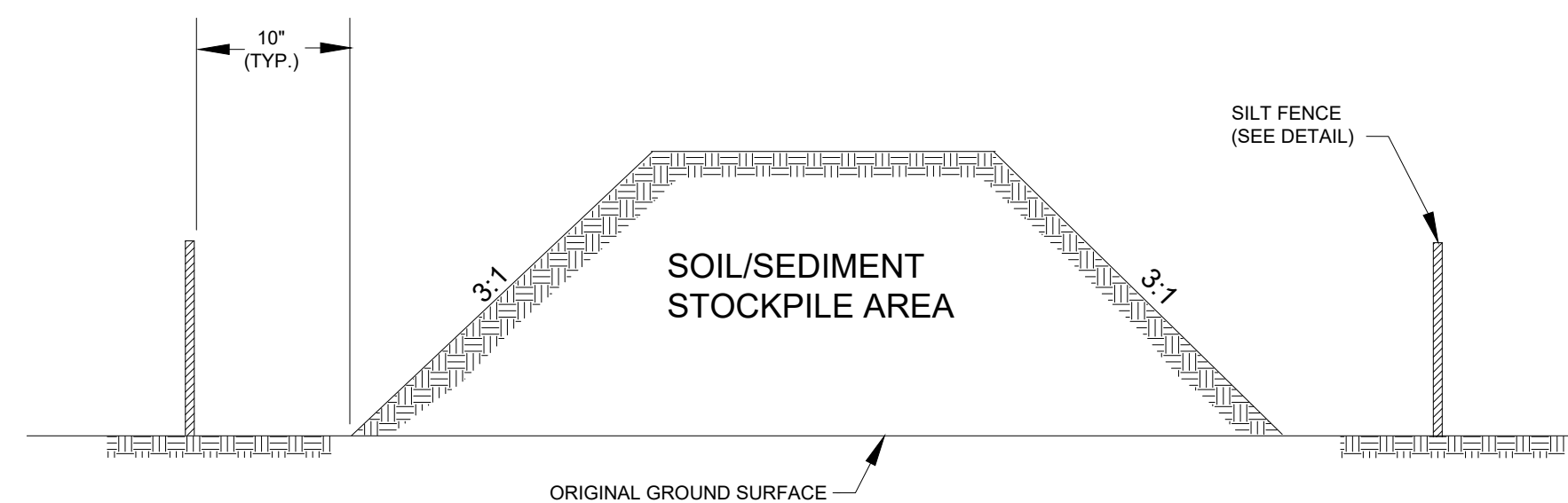
INSPECTION AND MAINTENANCE

- THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF ALL INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE INLET PROTECTION IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE BLOCKS. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE.
- REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
- LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED FROM IN FRONT OF TUBES WHEN FOUND.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED WITH FRESH STONE.
- INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

BLOCK AND GRAVEL DROP INLET PROTECTION

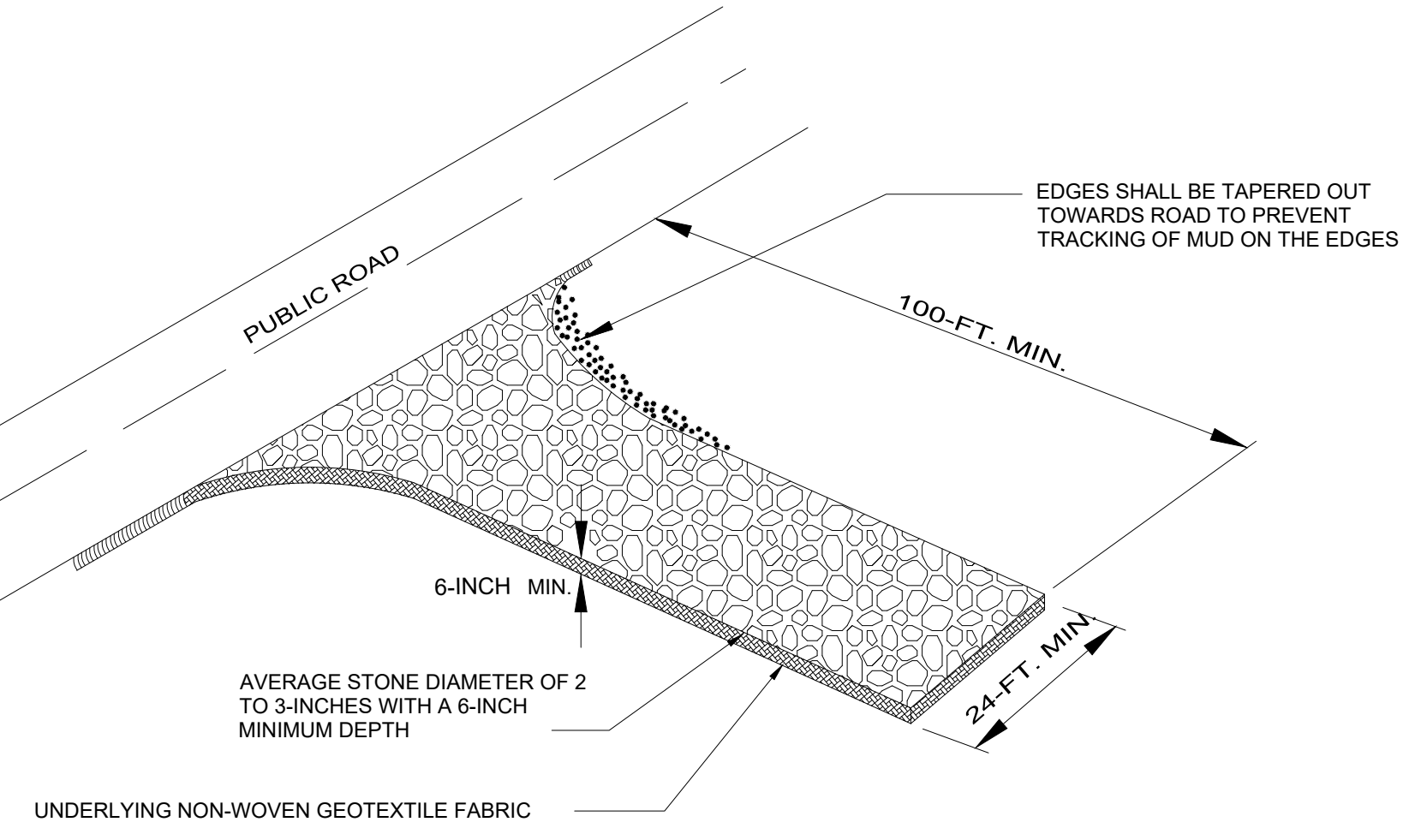
GENERAL NOTES

- BLOCK AND GRAVEL FILTERS CAN BE USED WHERE HEAVY FLOWS AND HIGHER VELOCITIES ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
- GRAVEL SHALL CONSIST OF 1-INCH D50 WASHED STONE AND SHOULD EXTEND TO HEIGHT EQUAL TO THE ELEVATION OF THE TOP OF THE BLOCKS.
- PLACE THE BOTTOM ROW OF THE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDE SO THAT THE OPEN END FACES OUTWARD, NOT UPWARD.
- THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING UPON DESIGN NEEDS BY STACKING A COMBINATION OF BLOCKS THAT ARE 8- TO 12-INCHES WIDE.
- WIRE MESH SHOULD BE PLACED OVER THE OUTSIDE VERTICAL FACE OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH X 1/2-INCH OPENINGS SHOULD BE USED.

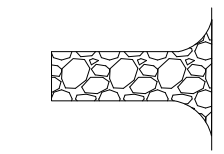


NOTES:

- SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
- IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
- SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
- THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.



PLAN SYMBOL

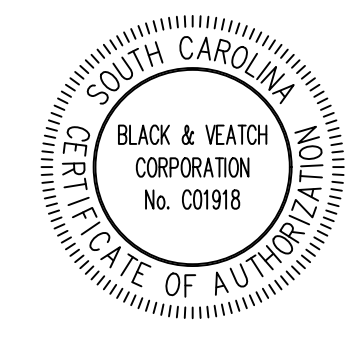


CONSTRUCTION ENTRANCE - GENERAL NOTES

- STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
- INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- THE ENTRANCE SHALL CONSIST OF 2-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
- MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FOOT WIDE BY 100-FOOT LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
- RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF CONTROL.
- WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
- CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED, UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.



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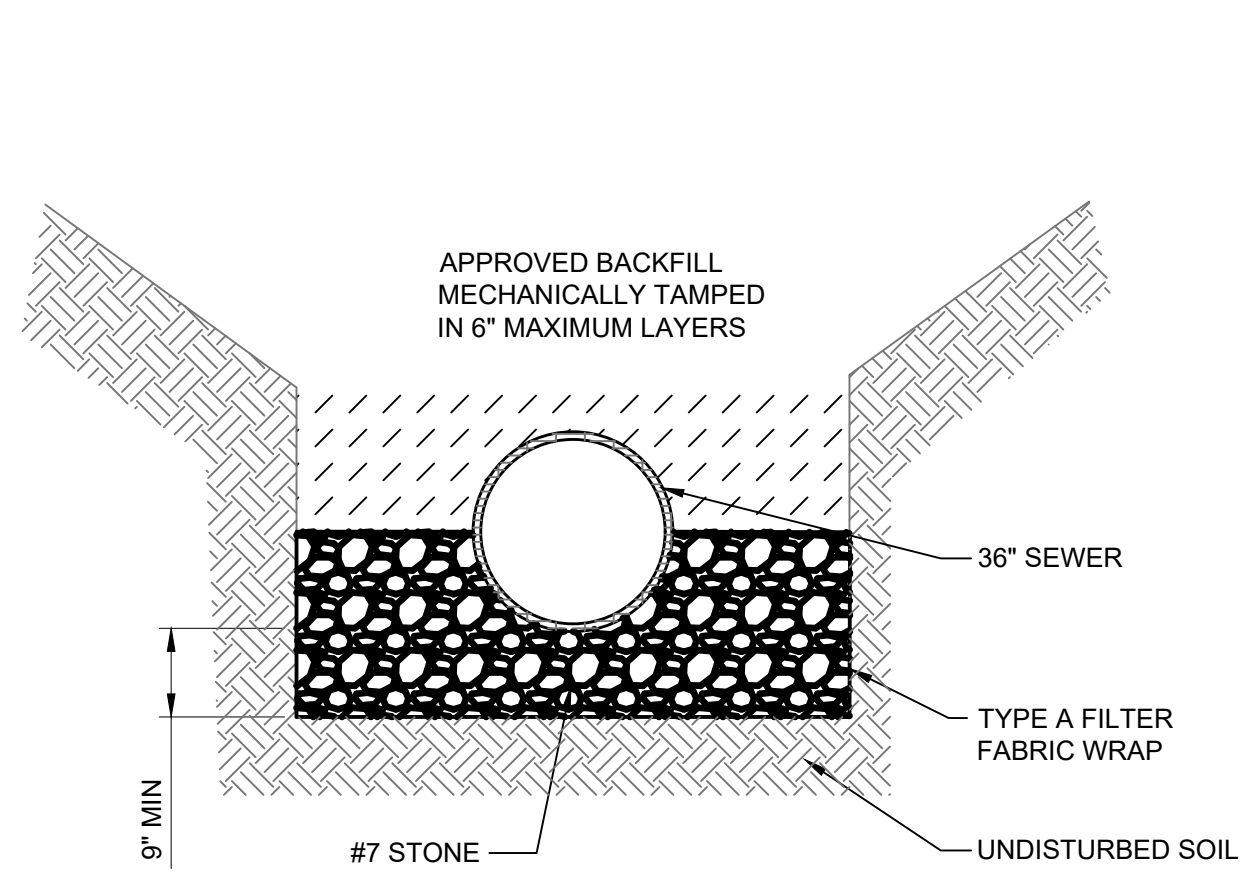
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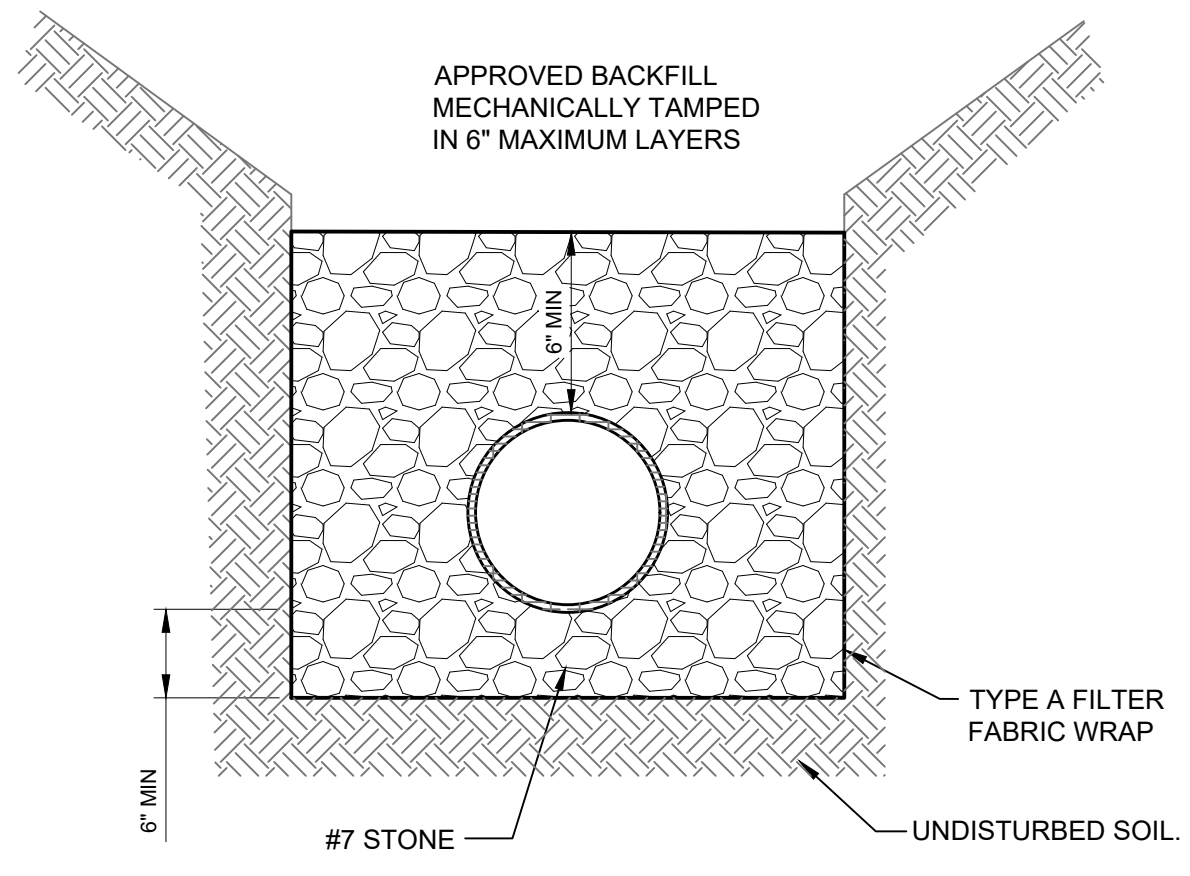
DETAILS (1 OF 3)

C-99-003

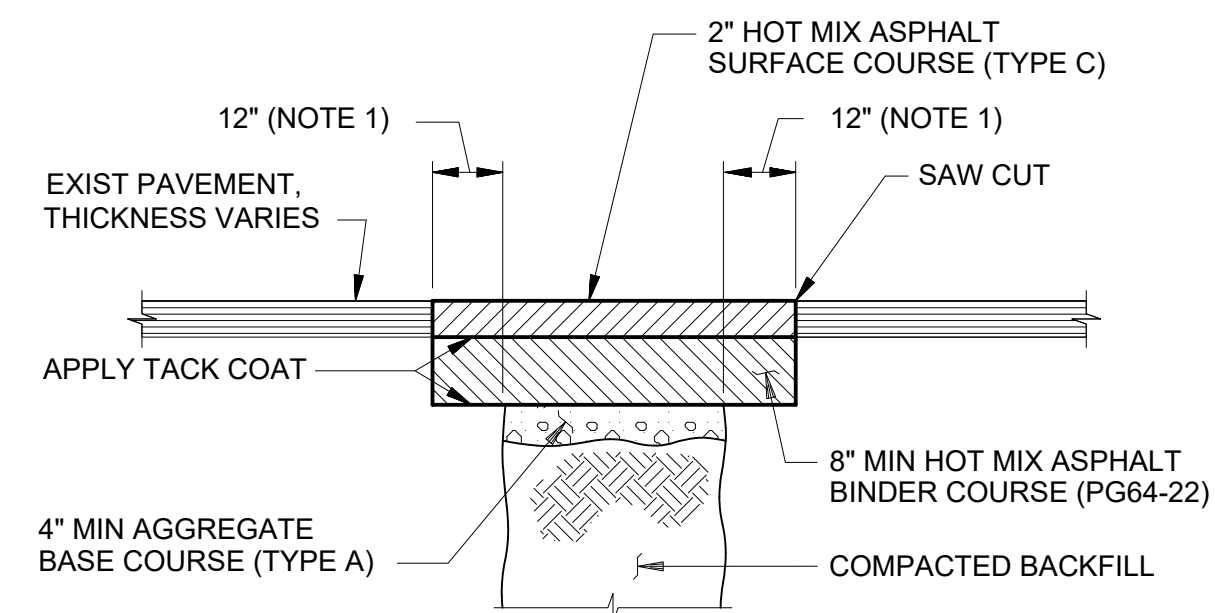
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A GRAVITY DUCTILE IRON PIPE EMBEDMENT DETAIL
NO SCALE

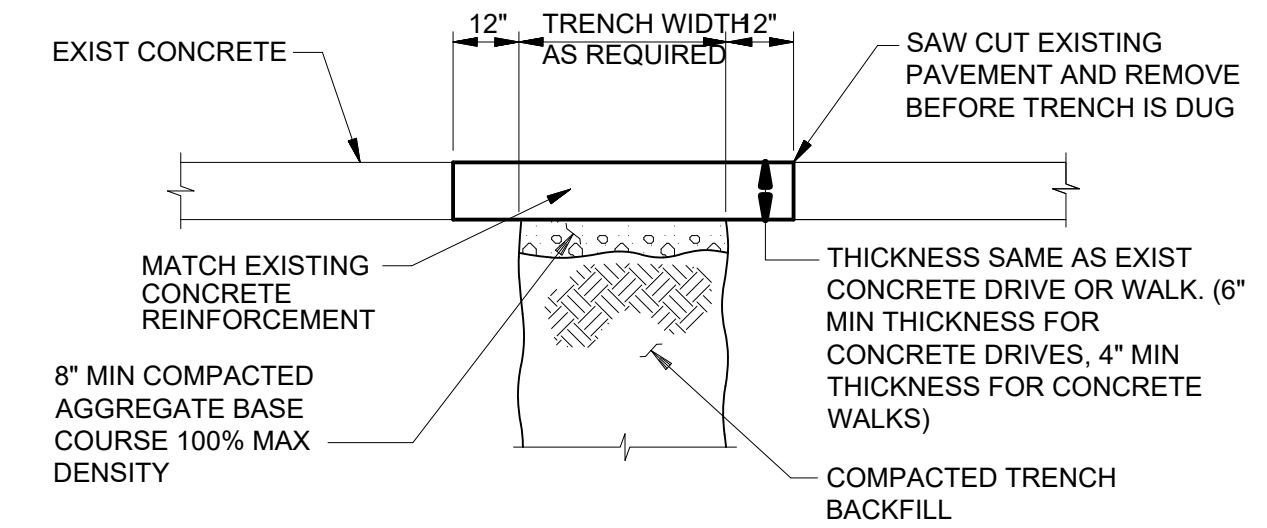


B GRAVITY PVC EMBEDMENT DETAIL
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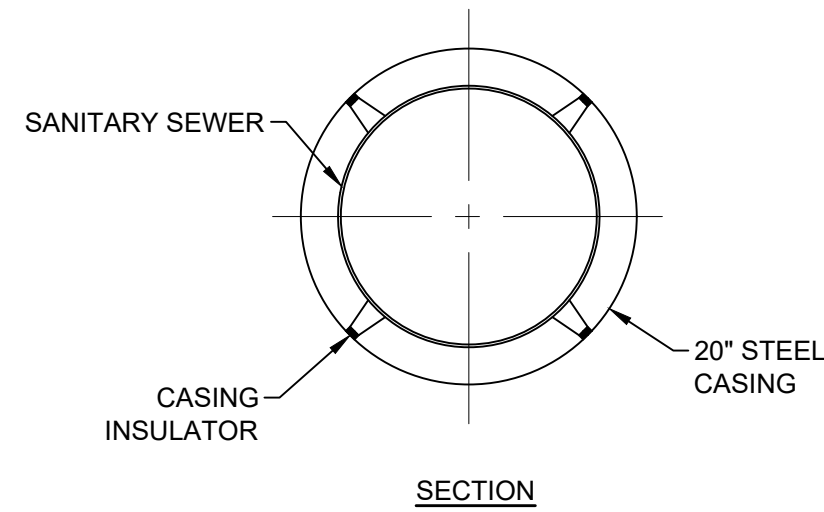
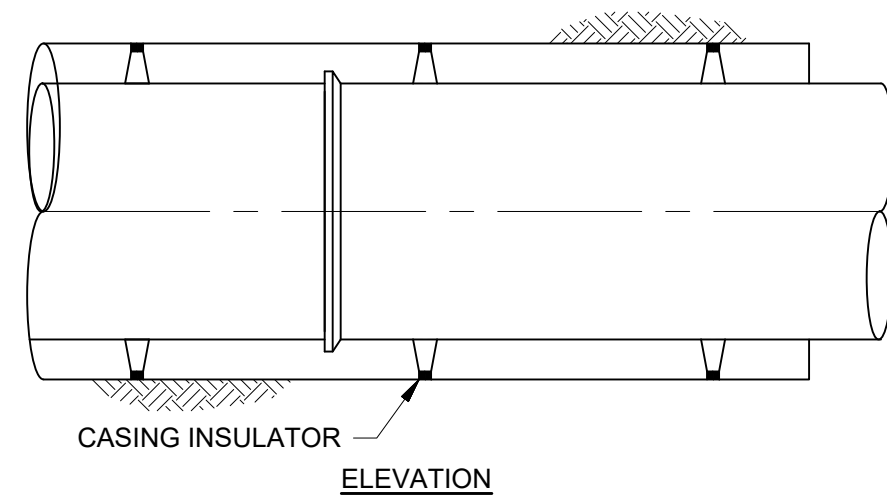


NOTES:
1. LIMITS OF SAW CUT SHALL BE AS REQUIRED TO MAKE SAW CUT PARALLEL TO CENTERLINE OF PIPELINE OR PERPENDICULAR TO DIRECTION OF TRAFFIC.

C PAVEMENT REPLACEMENT
NO SCALE

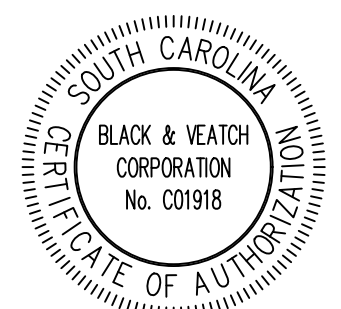


D CONCRETE PAVEMENT REPAIR
NO SCALE



E STEEL CASING
NO SCALE

- NOTES:**
- INSTALL GRAVITY SEWER DRAIN STOP AT DOWNSTREAM END OF CASING.
 - CASING SPACERS SHALL BE STAINLESS STEEL. SPACING OF CASING SPACERS SHALL BE PER MANUFACTURERS RECOMMENDATIONS.



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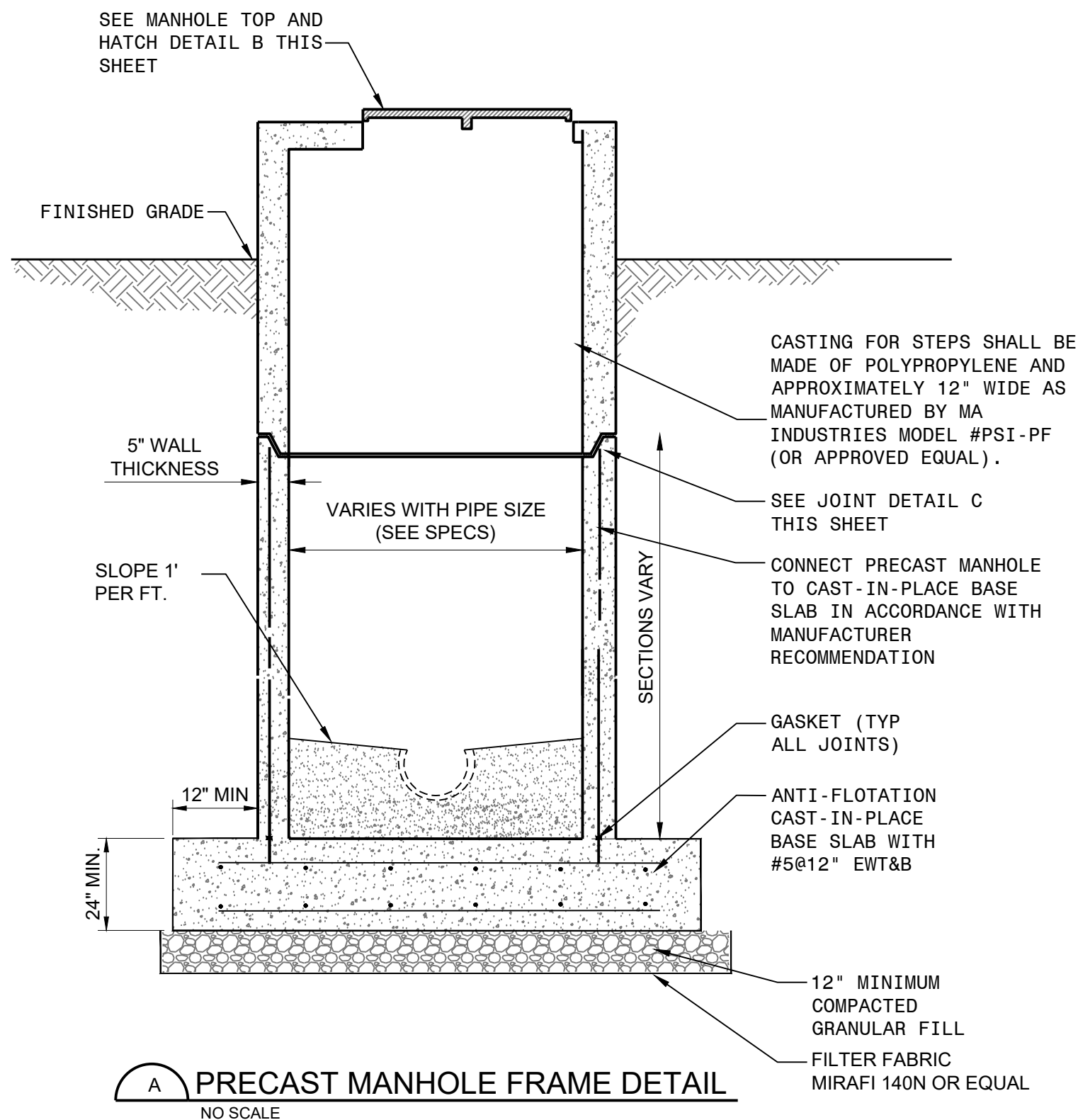
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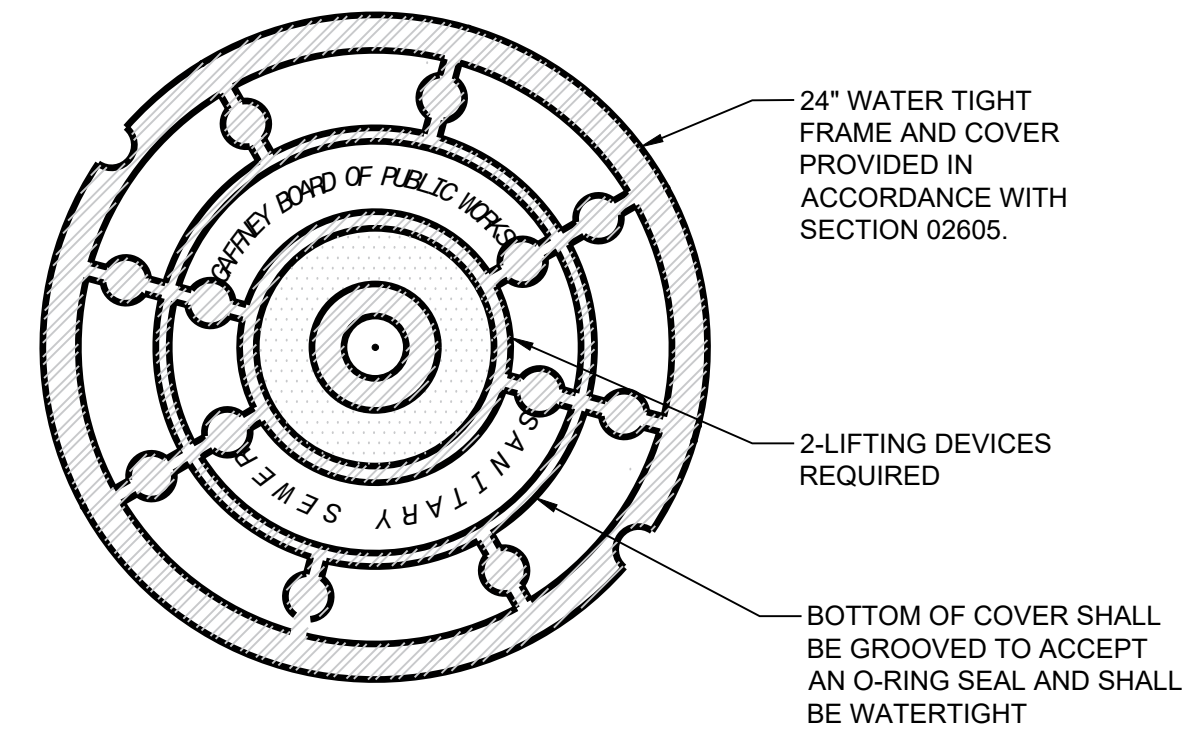
DETAILS (2 OF 3)

C-99-004

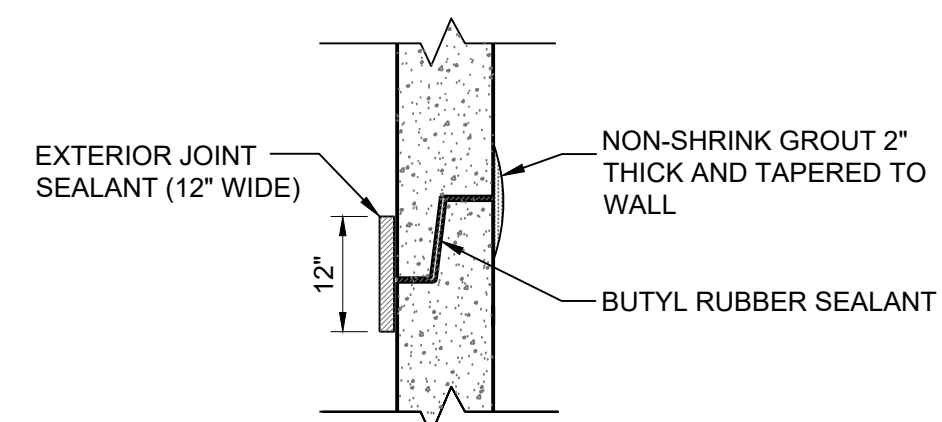
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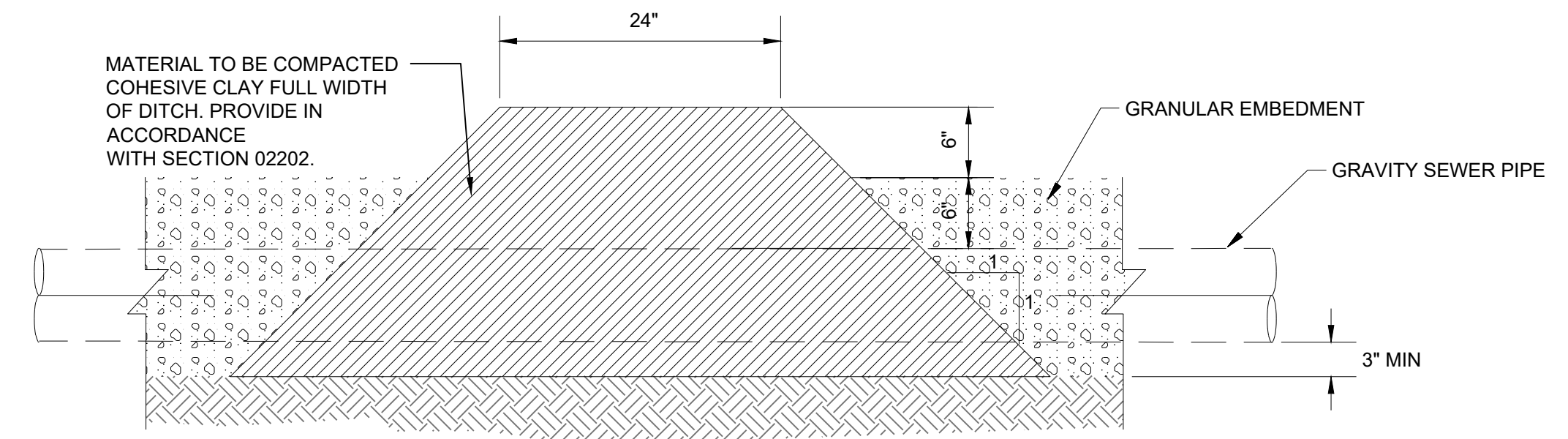
A PRECAST MANHOLE FRAME DETAIL
NO SCALE



B MANHOLE TOP AND FRAME DETAIL
NO SCALE

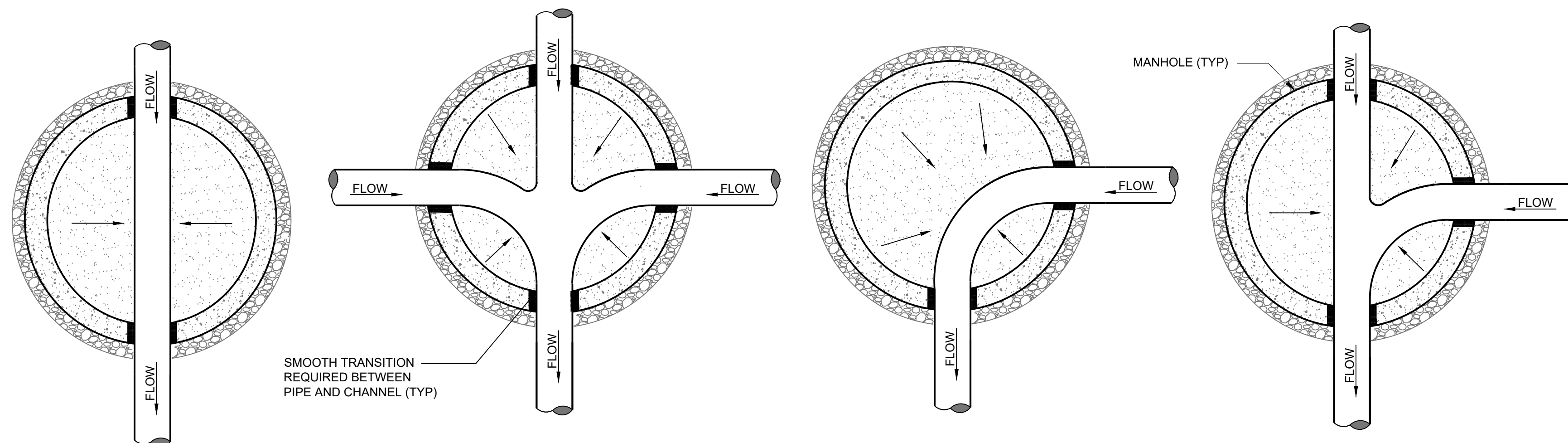


C JOINT DETAIL
NO SCALE



D GRAVITY SEWER DRAIN STOP DETAIL
NO SCALE

- NOTES:**
- BENCH CAN BE PRECAST, OR BRICK AND MORTAR TOWELED SMOOTH.
 - MANHOLE SHALL BE UNLINED UNLESS IT IS THE RECEIVING MANHOLE FOR A FORCE MAIN OR THE NEXT MANHOLE DOWNSTREAM.
 - MANHOLES OVER 12 FEET DEEP SHALL HAVE A 60" (5') MINIMUM INSIDE DIAMETER.
 - THE FRAME AND COVER AND GRADE RINGS SHALL BE SECURED TO THE CONE WITH GROUT ON BOTH THE INTERIOR AND EXTERIOR.
 - CAST-IN-PLACE BASE SHALL BE PROVIDED FOR EACH NEW MANHOLE. CONCRETE BASE SHALL BE PLACED ON UNDISTURBED SOIL WITH MINIMUM BEARING CAPACITY OF 3,000 PSF.
 - SEAL ALL EXTERNAL JOINTS WITH MASTIC SEALANT.



E MANHOLE BASE GROUT DETAIL
NO SCALE

- NOTES:**
- CHANNEL LINING SHALL BE EITHER BRICK OR CONCRETE, MINIMUM OF 4" THICK.
 - WIDTH OF CHANNEL SHALL MATCH INSIDE DIAMETER OF INCOMING AND OUTGOING PIPES. BLEND CHANNEL LINING FOR SMOOTH CONTOUR BETWEEN PIPES.
 - ALL INVERT ELEVATIONS SHALL BE AS SHOWN ON THE DRAWINGS.
 - INCOMING PIPES SHALL NOT ENTER A MANHOLE AT AN ANGLE LESS THAN 90 DEGREE TO THE OUTGOING PIPE.



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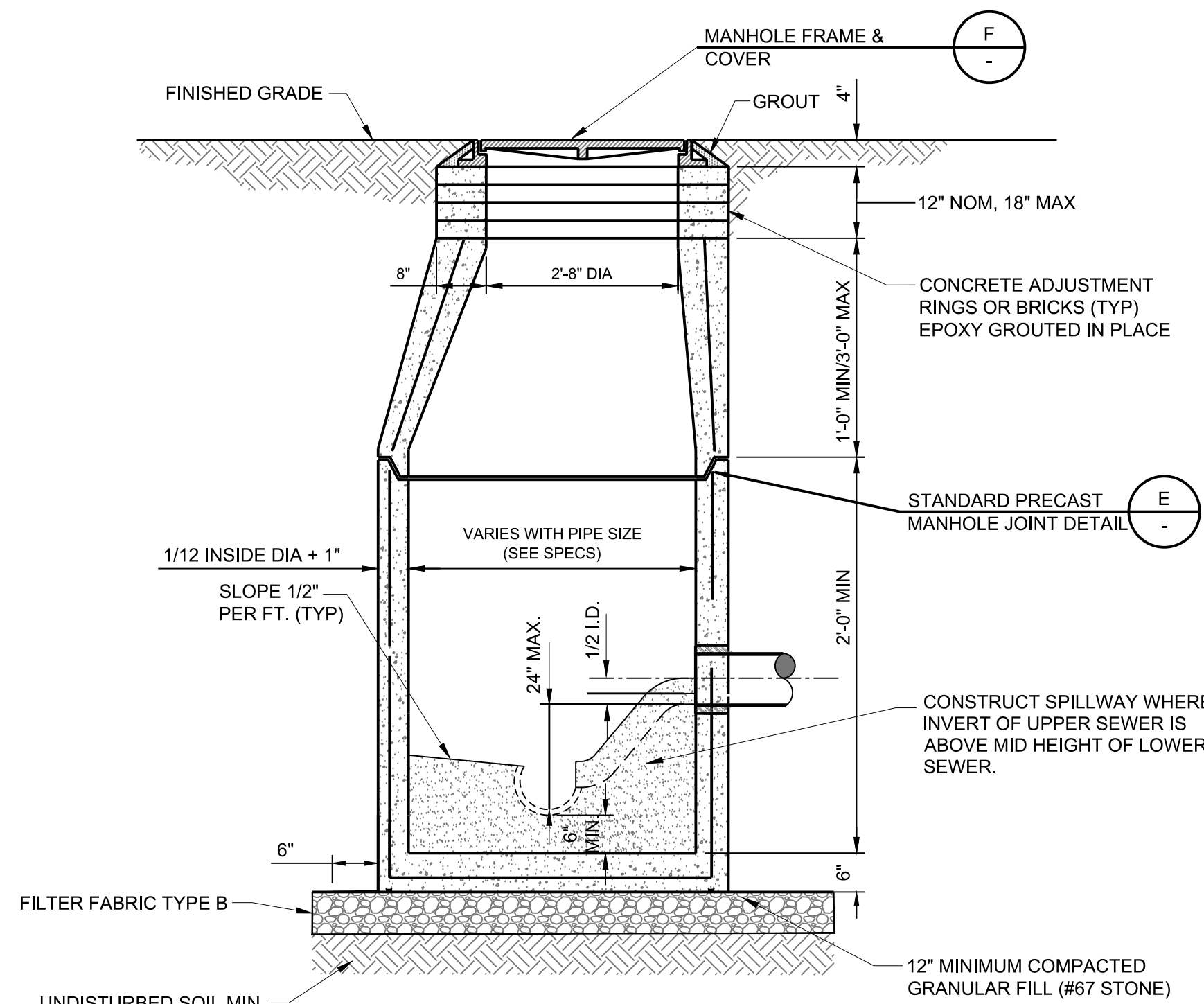
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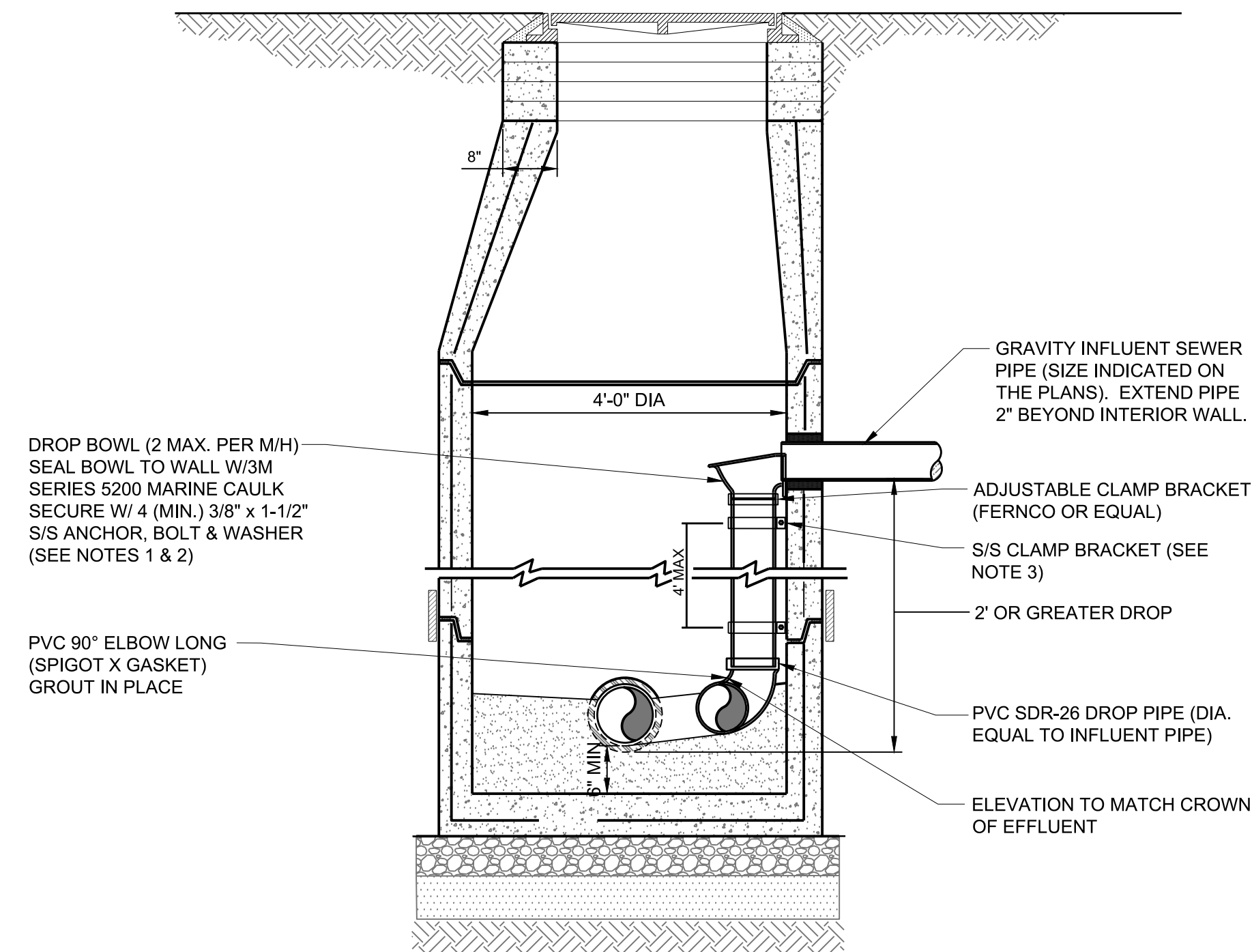


**PRECAST CONCRETE MANHOLE WITH
FRAME AND COVER DETAIL**

NO SCALE

NOTES:

1. BENCH CAN BE PRECAST, OR BRICK AND MORTAR TOWELED SMOOTH.
2. MANHOLE SHALL BE UNLINED UNLESS IT IS THE RECEIVING MANHOLE FOR A FORCE MAIN OR THE NEXT MANHOLE DOWNSTREAM.
3. MANHOLES OVER 12 FEET DEEP OR MANHOLES ASSOCIATED WITH 18" DIAMETER OR LARGER PIPE SHALL HAVE A 60" (5') MINIMUM INSIDE DIAMETER.
4. THE FRAME AND COVER AND GRADE RINGS SHALL BE SECURED TO THE CONE WITH GROUT ON BOTH THE INTERIOR AND EXTERIOR.
5. ALL NEW MANHOLES LOCATED IN THE 100-YEAR FLOOD ZONE SHALL BE PROVIDED WITH THICKENED PRECAST CONCRETE BASE OR REINFORCED CAST-IN-PLACE BASE. THICKENED MANHOLE BASE TOE WIDTH, A, AND THICKNESS, B, SHALL BE PROVIDED IN ACCORDANCE WITH SCHEDULE 02805-S01
6. SEAL ALL EXTERNAL JOINTS WITH MASTIC SEALANT.
7. IN THE EVENT UNSUITABLE SOILS ARE LOCATED BELOW NEW MANHOLES, OVER EXCAVATE A MINIMUM OF 12-INCHES AND REPLACE WITH GRANULAR FILL (#67 STONE).



INSIDE DROP MANHOLE DETAIL

NO SCALE

NOTES:

1. DROP BOWL BY RELINER OR APPROVED EQUAL REQUIRED.
2. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
3. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY). 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO M/H WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 304 OR 316 STAINLESS STEEL MATERIALS.

