





**GEOTECHNICAL GENERAL NOTE:**

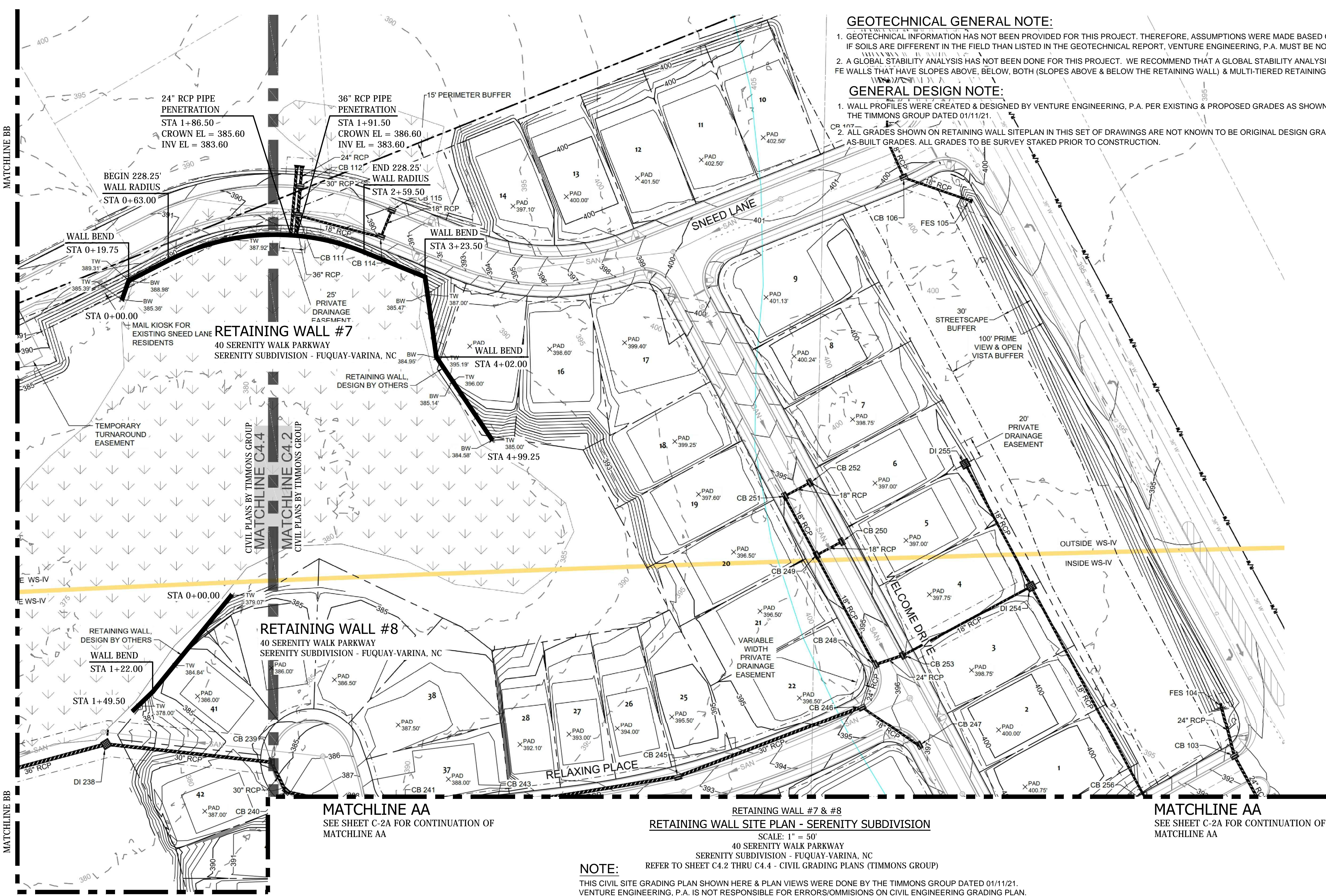
1. GEOTECHNICAL INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. THEREFORE, ASSUMPTIONS WERE MADE BASED ON SOIL CHARACTERISTICS IN THE AREA (REFER TO SHEET C-1). IF SOILS ARE DIFFERENT IN THE FIELD THAN LISTED IN THE GEOTECHNICAL REPORT, VENTURE ENGINEERING, P.A. MUST BE NOTIFIED IMMEDIATELY BEFORE WORK CAN CONTINUE.
2. A GLOBAL STABILITY ANALYSIS HAS NOT BEEN DONE FOR THIS PROJECT. WE RECOMMEND THAT A GLOBAL STABILITY ANALYSIS BE PERFORMED BY A 3RD PARTY GEOTECHNICAL ENGINEER FOR RETAINING FE WALLS THAT HAVE SLOPES ABOVE, BELOW, BOTH (SLOPES ABOVE & BELOW THE RETAINING WALL) & MULTI-TIERED RETAINING WALLS.

**GENERAL DESIGN NOTE:**

1. WALL PROFILES WERE CREATED & DESIGNED BY VENTURE ENGINEERING, P.A. PER EXISTING & PROPOSED GRADES AS SHOWN IN PLAN VIEW ON SHEET C-2 THRU C-2B AS PROVIDED BY THE TIMMONS GROUP DATED 01/11/21.
2. ALL GRADES SHOWN ON RETAINING WALL SITEPLAN IN THIS SET OF DRAWINGS ARE NOT KNOWN TO BE ORIGINAL DESIGN GRADES OR AS-BUILT GRADES. ALL GRADES TO BE SURVEY STAKED PRIOR TO CONSTRUCTION.

MATCHLINE BB  
SEE SHEET C-2B FOR CONTINUATION OF  
MATCHLINE BB

MATCHLINE BB  
SEE SHEET C-2B FOR CONTINUATION OF  
MATCHLINE BB



MATCHLINE AA  
SEE SHEET C-2A FOR CONTINUATION OF  
MATCHLINE AA

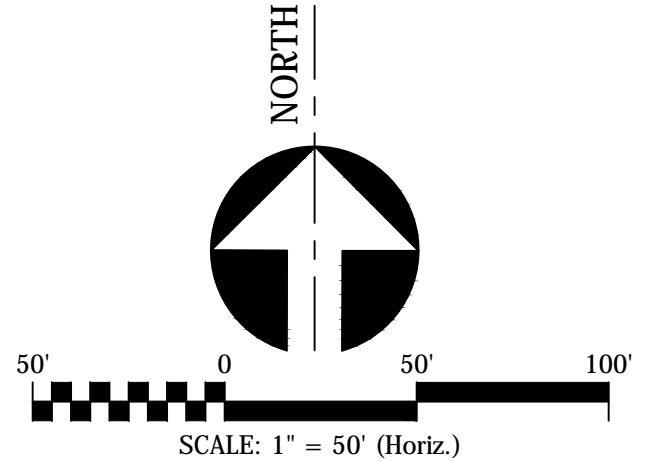
MATCHLINE AA  
SEE SHEET C-2A FOR CONTINUATION OF  
MATCHLINE AA

**RETAINING WALL #7 & #8  
RETAINING WALL SITE PLAN - SERENITY SUBDIVISION**

SCALE: 1" = 50'  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC

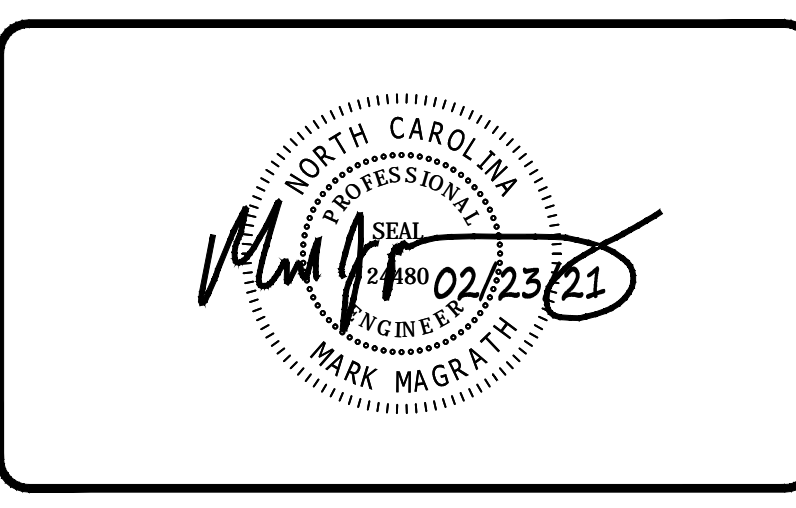
MATCHLINE AA  
SEE SHEET C-2A FOR CONTINUATION OF  
MATCHLINE AA


**NOTE:**  
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Venture Engineering, P.A.

DESCRIPTIONS	REVISIONS	DATE



  
**Venture Engineering, P.A.**  
 312 WEST MILLBROOK ROAD SUITE 237  
 RALEIGH, NC 27609  
 P: 919-602-1894 F: 919-676-0301  
 EMAIL ADDRESS: MMAGRATH@VENTURE-E.COM  
 LICENSE NO. C-2590

**SERENITY SUBDIVISION**  
 PHASE I RETAINING WALLS  
 40 SERENITY WALK PARKWAY  
 FUQUAY-VARINA, NC  
  
**RETAINING WALL SITE PLAN - SHEET 1 OF 3**  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 PHASES 1A, 1B & 1C - RETAINING WALL #7 & #8

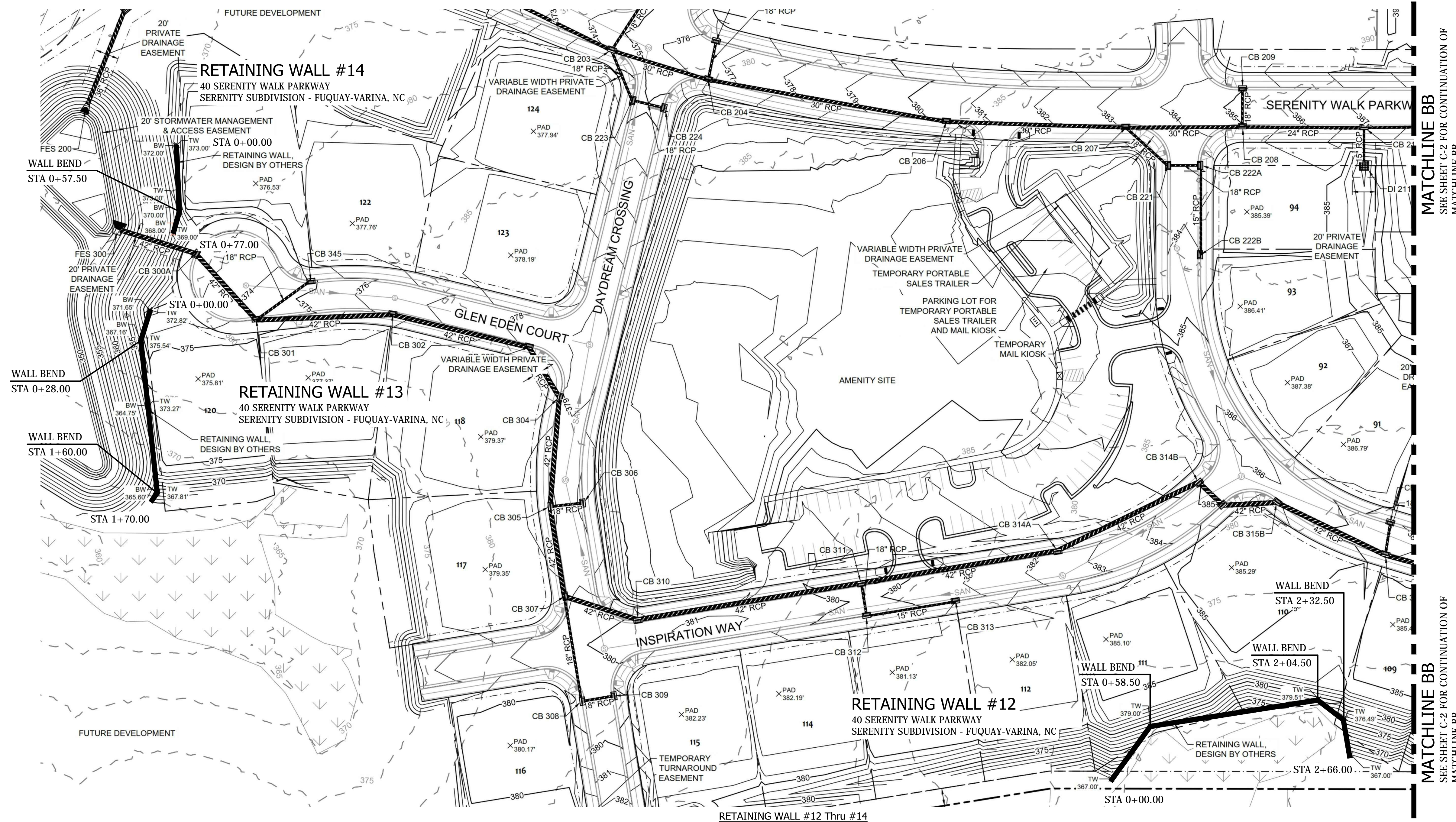
DATE: FEBRUARY 23, 2021
DES: TLH
DRAWN: TLH
APPROVED: MJM

<b>SCALE</b>
HORIZONTAL: 1" = 50'
VERTICAL: N/A

DRAWING NUMBER <b>C-2</b>
------------------------------

VE PROJECT NO: 00210001 SERENITY SUBDIVISION - PHASES 1A, 1B & 1C RETAINING WALL CONSTRUCTION - RALEIGH, NORTH CAROLINA





RETAINING WALL #12 Thru #14  
**RETAINING WALL SITE PLAN - SERENITY SUBDIVISION**  
 SCALE: 1" = 50'  
 40 SERENITY WALK PARKWAY  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 REFER TO SHEET C4.2 THRU C4.4 - CIVIL GRADING PLANS (TIMMONS GROUP)

**GEOTECHNICAL GENERAL NOTE:**

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**GENERAL DESIGN NOTE:**

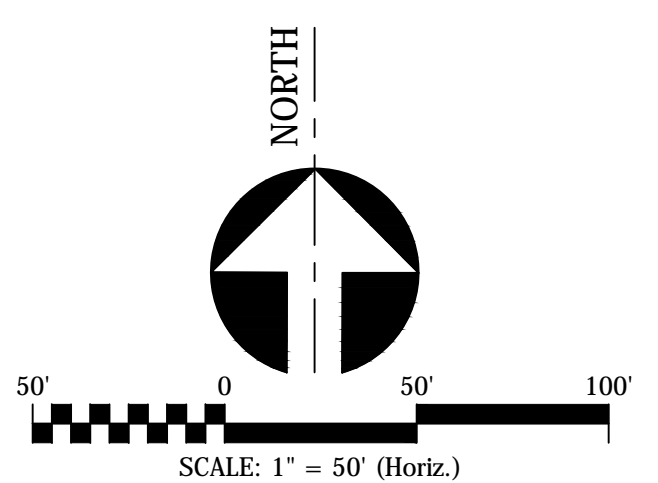
1. WALL PROFILES WERE CREATED & DESIGNED BY VENTURE ENGINEERING, P.A. PER EXISTING & PROPOSED GRADES AS SHOWN IN PLAN VIEW ON SHEET C-2 THRU C-2B AS PROVIDED BY THE TIMMONS GROUP DATED 01/11/21.
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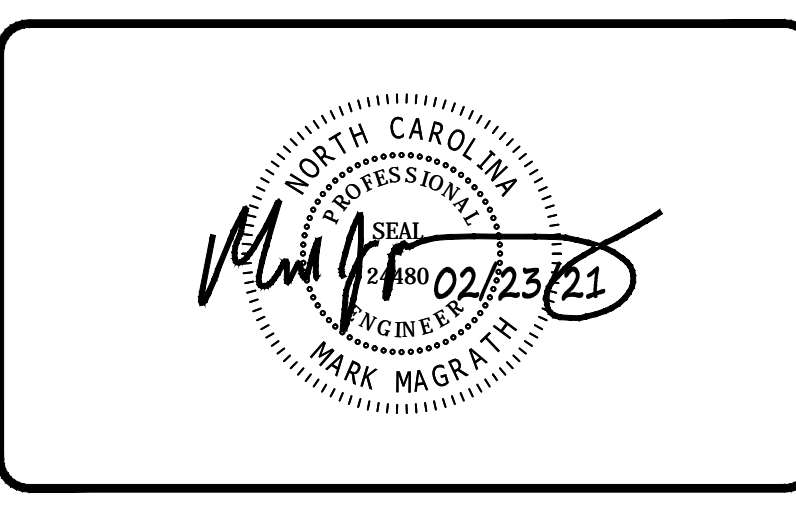
MATCHLINE BB  
 SEE SHEET C-2 FOR CONTINUATION OF  
 MATCHLINE BB


MATCHLINE BB  
 SEE SHEET C-2 FOR CONTINUATION OF  
 MATCHLINE BB



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DESCRIPTIONS	REVISIONS	DATE



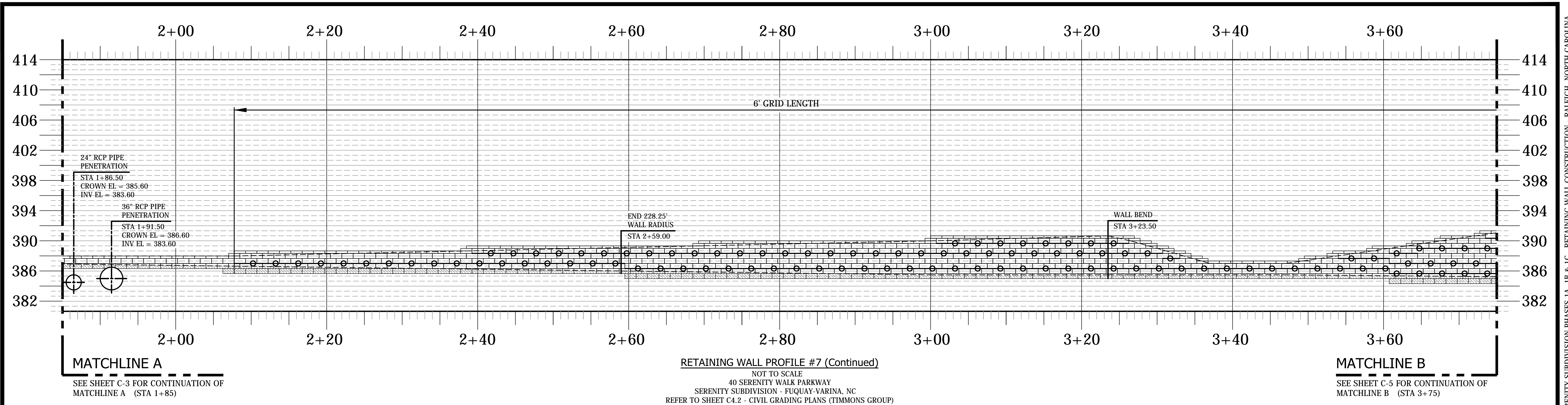
  
**Venture Engineering, P.A.**  
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 LICENSE NO. C-2590

**SERENITY SUBDIVISION**  
 PHASE I RETAINING WALLS  
 40 SERENITY WALK PARKWAY  
 FUQUAY-VARINA, NC  
  
**RETAINING WALL SITE PLAN - SHEET 3 OF 3**  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 PHASES 1A, 1B & 1C - RETAINING WALL #12 THRU #14

DATE: FEBRUARY 23, 2021	<b>SCALE</b> HORIZONTAL: 1" = 50' VERTICAL: N/A	DRAWING NUMBER <b>C-2B</b>
DES: TLH		
DRAWN: TLH		
APPROVED: MJM		

SERENITY SUBDIVISION - PHASES 1A, 1B & 1C - RETAINING WALL CONSTRUCTION - RALEIGH, NORTH CAROLINA  
 VE PROJECT NO: 00210001





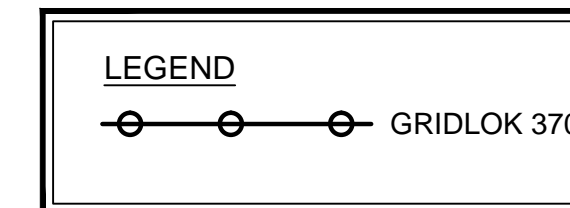
**RETAINING WALL PROFILE #7 (Continued)**  
 NOT TO SCALE  
 40 SERENITY WALK PARKWAY  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 REFER TO SHEET C4.2 - CIVIL GRADING PLANS (TIMMONS GROUP)

**GEOTECHNICAL GENERAL NOTE:**

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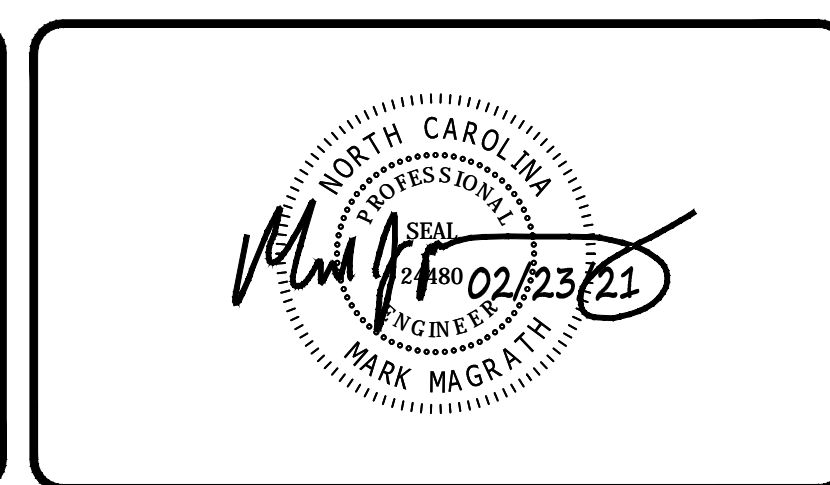
**GENERAL DESIGN NOTE:**

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DESCRIPTIONS	REVISIONS	DATE

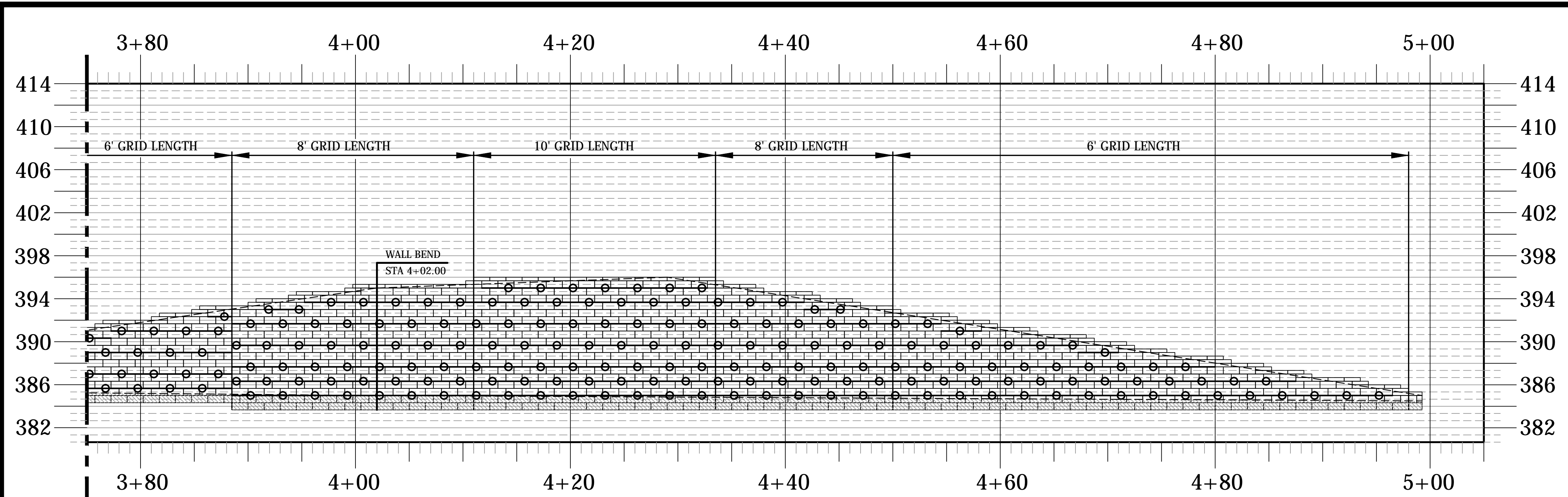


  
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**SERENITY SUBDIVISION**  
 PHASE I RETAINING WALLS  
 40 SERENITY WALK PARKWAY  
 FUQUAY-VARINA, NC  
  
**RETAINING WALL PROFILE #7 (Continued)**  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC

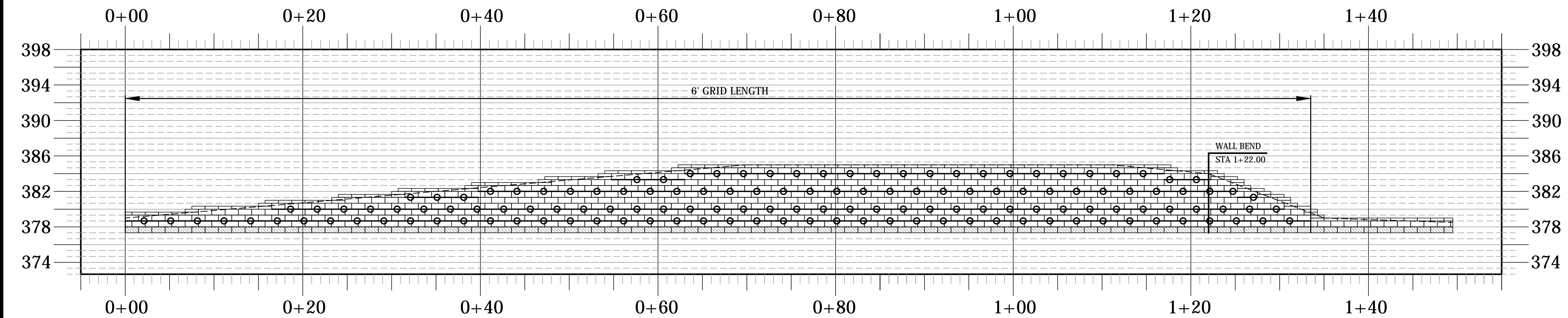
DATE: FEBRUARY 23, 2021	<b>SCALE</b>	DRAWING NUMBER <b>C-4</b>
DES: TLH		
DRAWN: TLH		
APPROVED: MJM	HORIZONTAL: N/A	VERTICAL: N/A

SERENITY SUBDIVISION - PHASES 1A, 1B & 1C



MATCHLINE B  
SEE SHEET C-4 FOR CONTINUATION OF  
MATCHLINE B (STA 3+75)

RETAINING WALL PROFILE #7 (Continued)  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.2 - CIVIL GRADING PLANS (TIMMONS GROUP)



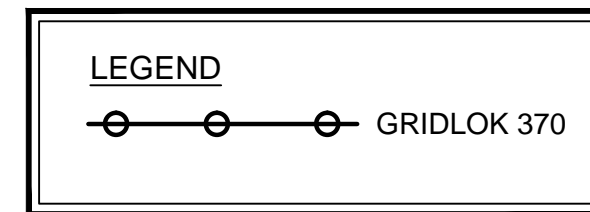
RETAINING WALL PROFILE #8  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.2 - CIVIL GRADING PLANS (TIMMONS GROUP)

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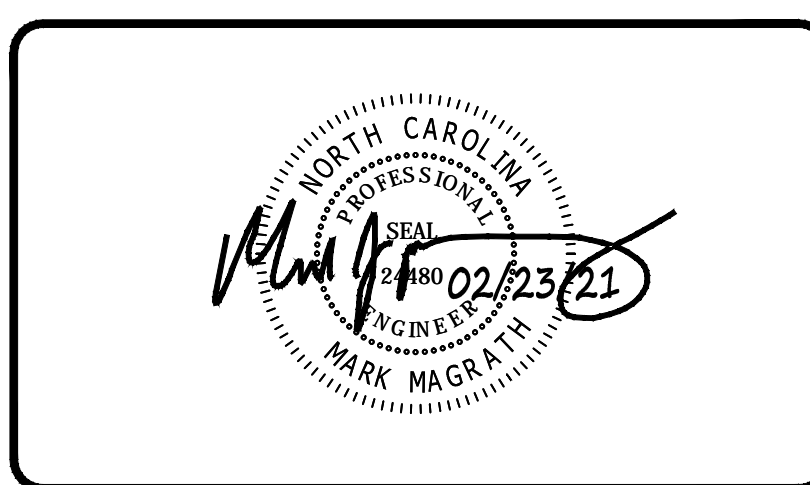
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**SERENITY SUBDIVISION**  
PHASE I RETAINING WALLS  
40 SERENITY WALK PARKWAY  
FUQUAY-VARINA, NC  
**RETAINING WALL PROFILE #7 (Continued) & #8**  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC

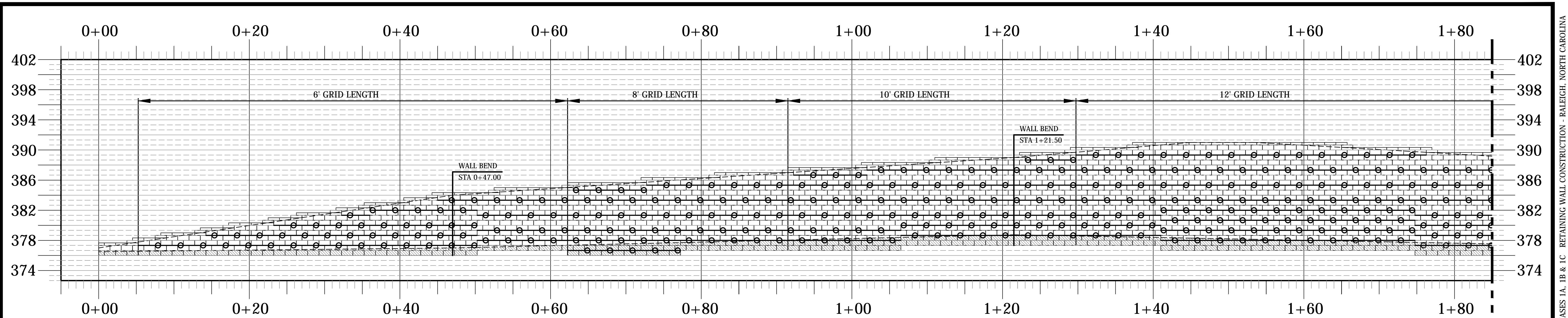
DATE: FEBRUARY 23, 2021  
DES: TLH  
DRAWN: TLH  
APPROVED: MJM

SCALE  
HORIZONTAL: N/A  
VERTICAL: N/A

DRAWING NUMBER  
**C-5**

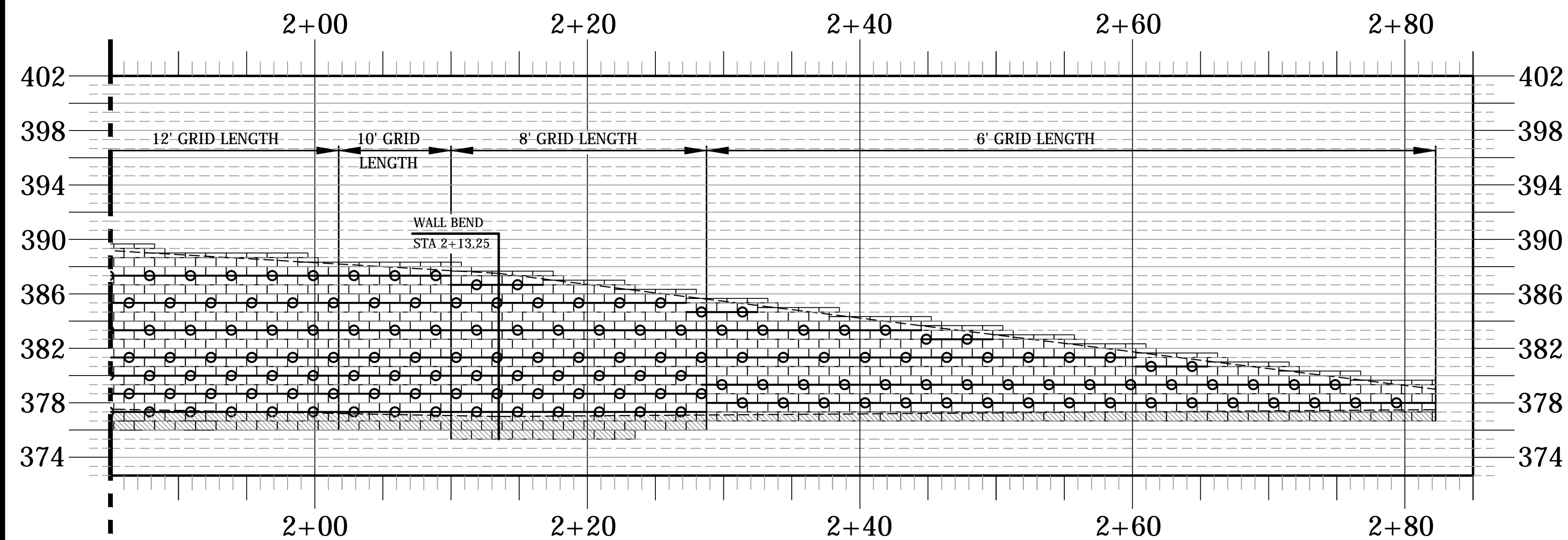
SERENITY SUBDIVISION - PHASES 1A, 1B & 1C RETAINING WALL CONSTRUCTION - RALEIGH, NORTH CAROLINA



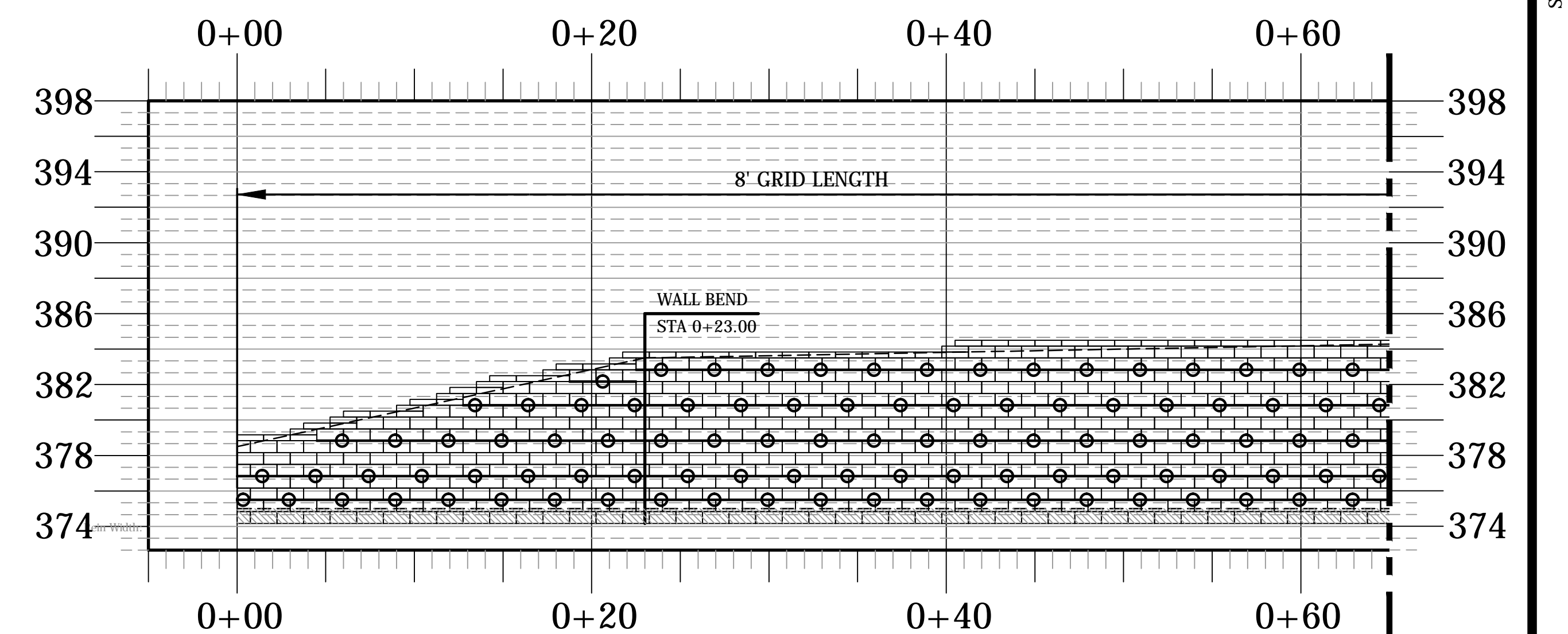


**RETAINING WALL PROFILE #9**  
 NOT TO SCALE  
 40 SERENITY WALK PARKWAY  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 REFER TO SHEET C4.3 - CIVIL GRADING PLANS (TIMMONS GROUP)

**MATCHLINE C**  
 SEE SHEET C-4 FOR CONTINUATION OF  
 MATCHLINE C (STA 1+85)



**RETAINING WALL PROFILE #9 (Continued)**  
 NOT TO SCALE  
 40 SERENITY WALK PARKWAY  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 REFER TO SHEET C4.3 - CIVIL GRADING PLANS (TIMMONS GROUP)



**RETAINING WALL PROFILE #10**  
 NOT TO SCALE  
 40 SERENITY WALK PARKWAY  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
 REFER TO SHEET C4.3 - CIVIL GRADING PLANS (TIMMONS GROUP)

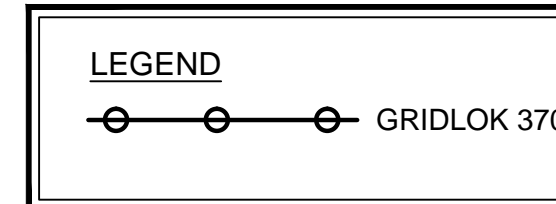
**MATCHLINE D**  
 SEE SHEET C-7 FOR CONTINUATION OF  
 MATCHLINE D (STA 0+65)

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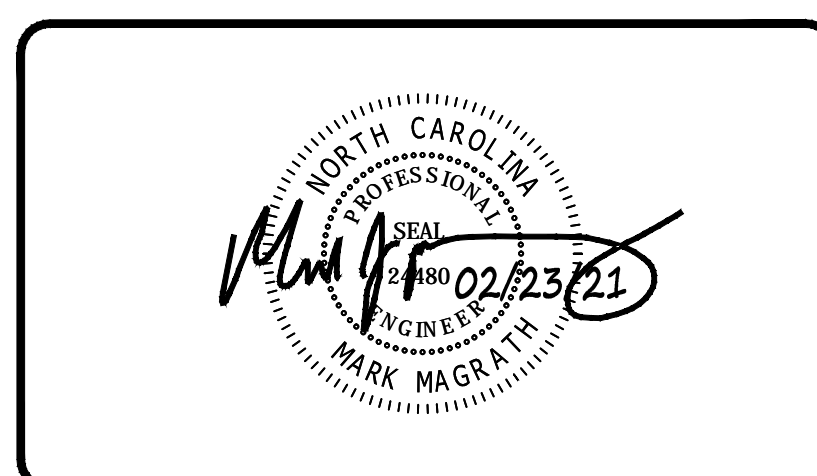
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NO.	DESCRIPTIONS	DATE



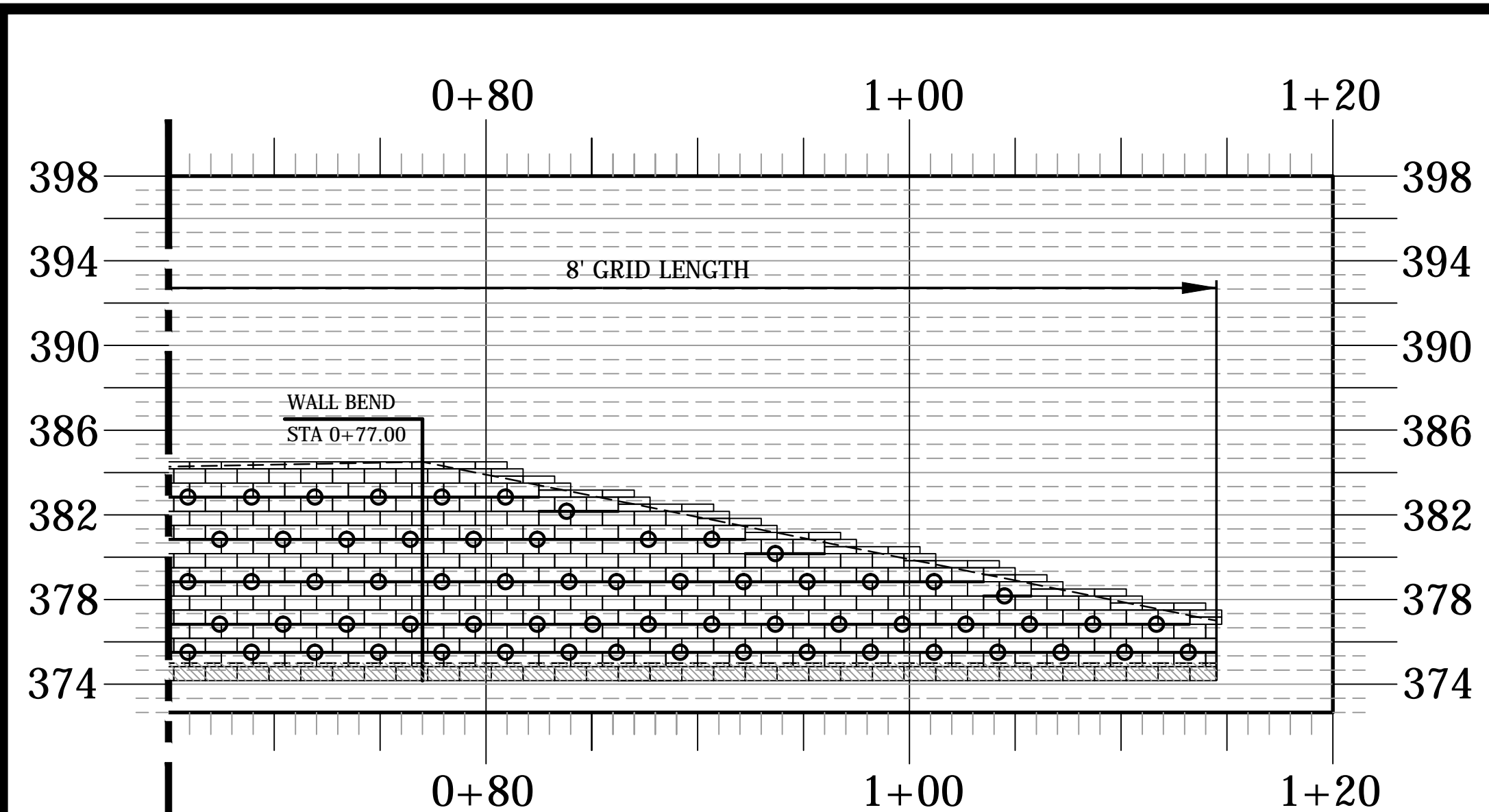
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**SERENITY SUBDIVISION**  
 PHASE I RETAINING WALLS  
 40 SERENITY WALK PARKWAY  
 FUQUAY-VARINA, NC

**RETAINING WALL PROFILE #9 (Continued) & #10**  
 SERENITY SUBDIVISION - FUQUAY-VARINA, NC

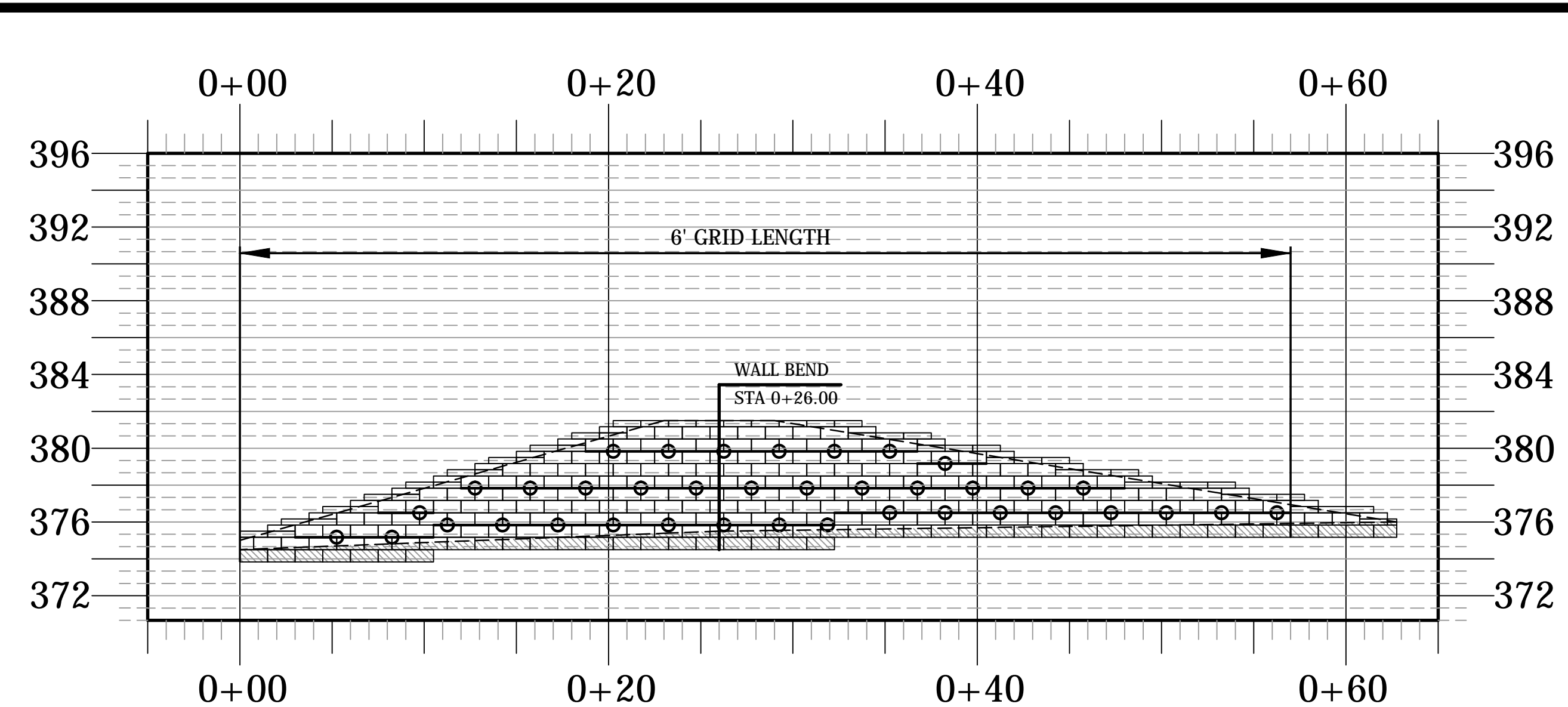
DATE: FEBRUARY 23, 2021	<b>SCALE</b>	DRAWING NUMBER <b>C-6</b>
DES: TLH		
DRAWN: TLH		
APPROVED: MJM		
HORIZONTAL: N/A		VERTICAL: N/A

SERENITY SUBDIVISION - PHASES 1A, 1B & 1C RETAINING WALL CONSTRUCTION - RALEIGH, NORTH CAROLINA

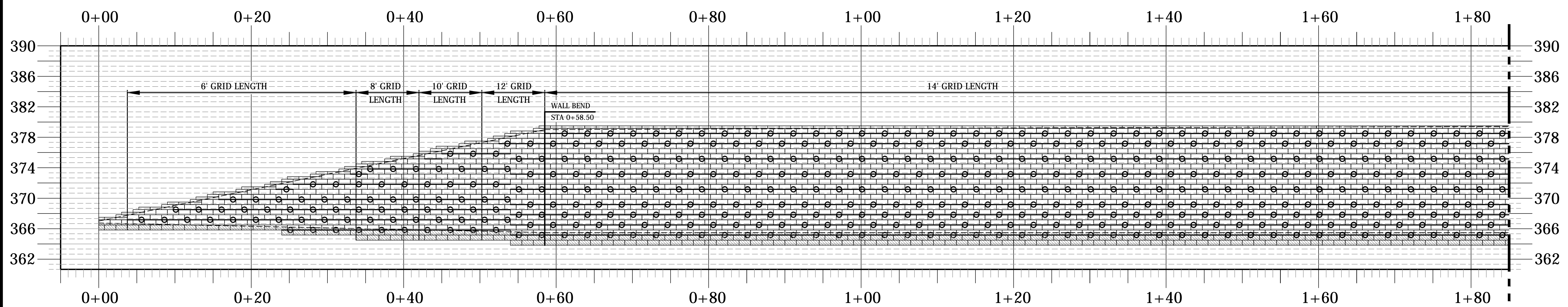


MATCHLINE D  
SEE SHEET C-6 FOR CONTINUATION OF MATCHLINE D (STA 0+65)

**RETAINING WALL PROFILE #10 (Continued)**  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.3 - CIVIL GRADING PLANS (TIMMONS GROUP)



**RETAINING WALL PROFILE #11**  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.3 - CIVIL GRADING PLANS (TIMMONS GROUP)



**RETAINING WALL PROFILE #12**  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.4 - CIVIL GRADING PLANS (TIMMONS GROUP)

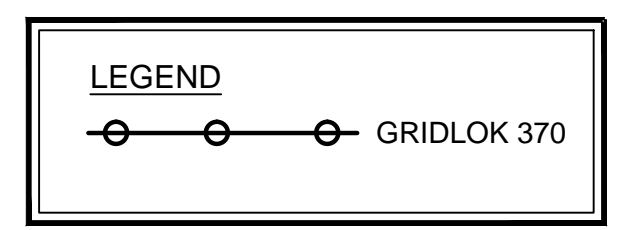
MATCHLINE E  
SEE SHEET C-8 FOR CONTINUATION OF MATCHLINE E (STA 1+85)

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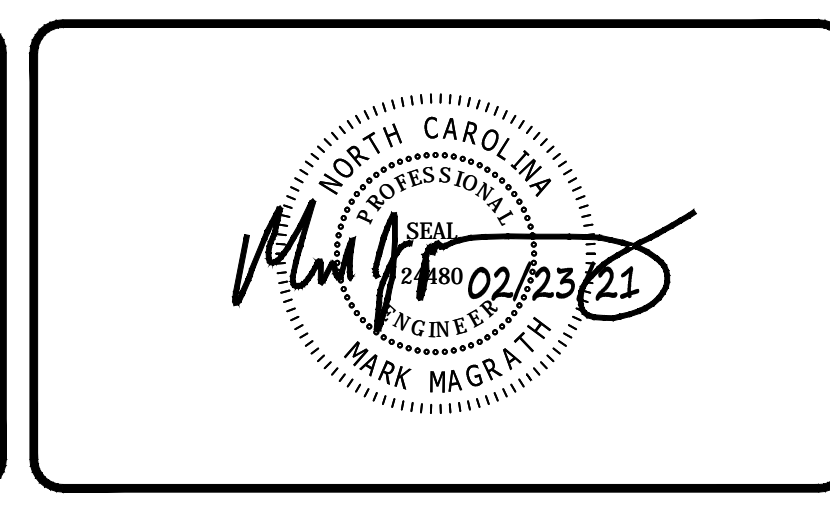
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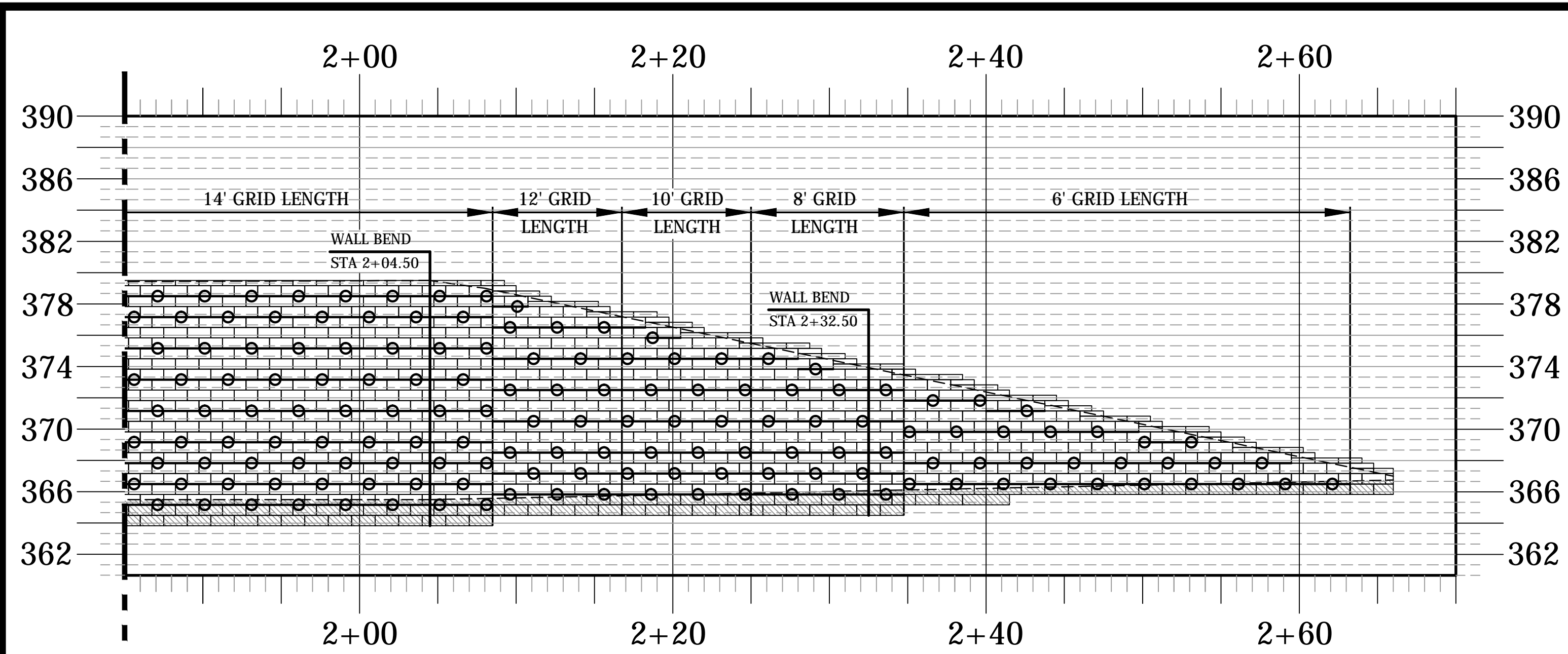
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LICENSE NO. C-2590

**SERENITY SUBDIVISION**  
PHASE I RETAINING WALLS  
40 SERENITY WALK PARKWAY  
FUQUAY-VARINA, NC

**RETAINING WALL PROFILE #10 (Continued) Thru #12**  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC

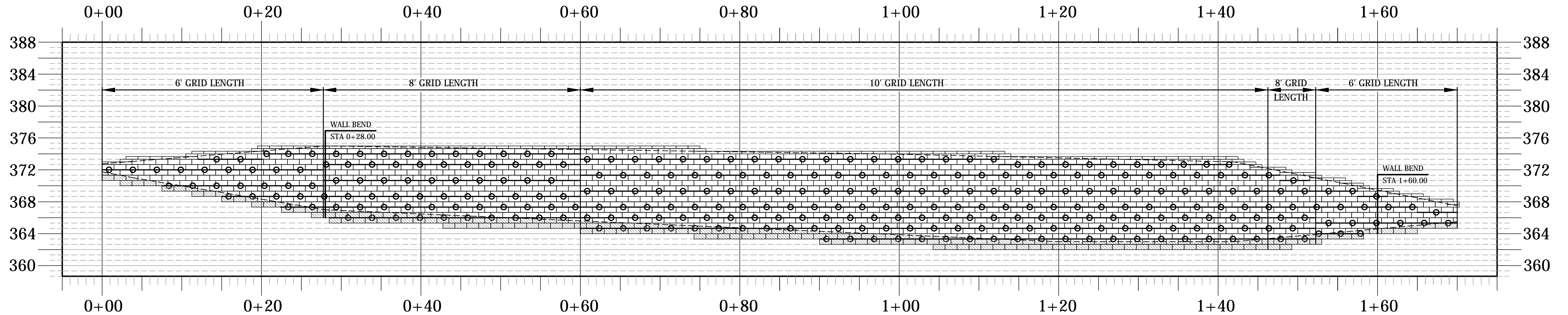
DATE: FEBRUARY 23, 2021	SCALE HORIZONTAL: N/A VERTICAL: N/A	DRAWING NUMBER <b>C-7</b>
DES: TLH		
DRAWN: TLH		
APPROVED: MJM		

VE PROJECT NO: 00210001 SERENITY SUBDIVISION - PHASES 1A, 1B & 1C RETAINING WALL CONSTRUCTION - RALEIGH, NORTH CAROLINA



**MATCHLINE E**  
SEE SHEET C-8 FOR CONTINUATION OF MATCHLINE E (STA 1+85)

**RETAINING WALL PROFILE #12 (Continued)**  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.4 - CIVIL GRADING PLANS (TIMMONS GROUP)



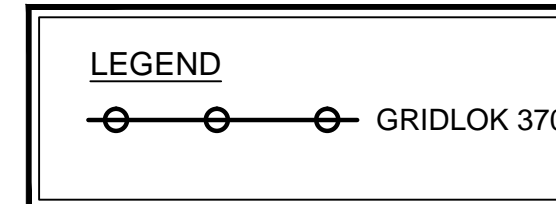
**RETAINING WALL PROFILE #13**  
NOT TO SCALE  
40 SERENITY WALK PARKWAY  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC  
REFER TO SHEET C4.4 - CIVIL GRADING PLANS (TIMMONS GROUP)

**GEOTECHNICAL GENERAL NOTE:**

1. GEOTECHNICAL INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. THEREFORE, ASSUMPTIONS WERE MADE BASED ON SOIL CHARACTERISTICS IN THE AREA (REFER TO SHEET C-1). IF SOILS ARE DIFFERENT IN THE FIELD THAN LISTED IN THE GEOTECHNICAL REPORT, VENTURE ENGINEERING, P.A. MUST BE NOTIFIED IMMEDIATELY BEFORE WORK CAN CONTINUE.
2. A GLOBAL STABILITY ANALYSIS HAS NOT BEEN DONE FOR THIS PROJECT. WE RECOMMEND THAT A GLOBAL STABILITY ANALYSIS BE PERFORMED BY A 3RD PARTY GEOTECHNICAL ENGINEER FOR RETAINING WALLS THAT HAVE SLOPES ABOVE, BELOW, BOTH (SLOPES ABOVE & BELOW THE RETAINING WALL) & MULTI-TIERED RETAINING WALLS.

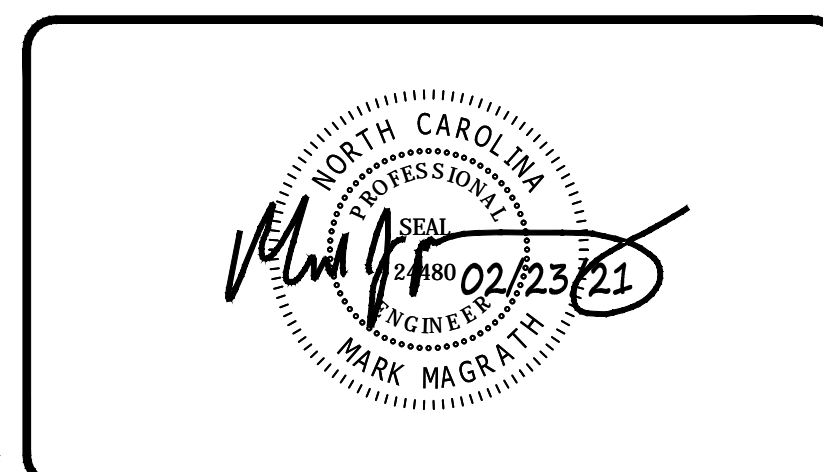
**GENERAL DESIGN NOTE:**

1. WALL PROFILES WERE CREATED & DESIGNED BY VENTURE ENGINEERING, P.A. PER EXISTING & PROPOSED GRADES AS SHOWN IN PLAN VIEW ON SHEET C-2 AS PROVIDED BY THE TIMMONS GROUP DATED 01/11/21.
2. ALL GRADES SHOWN ON RETAINING WALL SITEPLAN IN THIS SET OF DRAWINGS ARE NOT KNOWN TO BE ORIGINAL DESIGN GRADES OR AS-BUILT GRADES. ALL GRADES TO BE SURVEY STAKED PRIOR TO CONSTRUCTION.



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Venture Engineering, P.A.

DESCRIPTIONS	REVISIONS	DATE



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EMAIL ADDRESS: MMAGRATH@VENTURE-E.COM  
LICENSE NO. C-2590

**SERENITY SUBDIVISION**  
PHASE I RETAINING WALLS  
40 SERENITY WALK PARKWAY  
FUQUAY-VARINA, NC

**RETAINING WALL PROFILE #12 (Continued) & #13**  
SERENITY SUBDIVISION - FUQUAY-VARINA, NC

DATE: FEBRUARY 23, 2021
DES: TLH
DRAWN: TLH
APPROVED: MJM

<b>SCALE</b>
HORIZONTAL: N/A
VERTICAL: N/A

DRAWING NUMBER
<b>C-8</b>

SERENITY SUBDIVISION - PHASES 1A, 1B & 1C









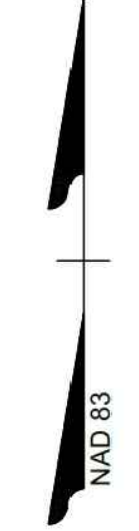
**LEGEND**

- PROPOSED CONTOUR
- - - EXISTING CONTOUR
- - - PROPOSED DRAIN EASEMENT
- ▨ PROPOSED PERIMETER BUFFER
- ▨ WETLANDS



SCALE 1"=50'

0 50' 100'



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 TEL 919.856.4951 | FAX 919.833.8124 | www.timmons.com

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DATE	REVISION DESCRIPTION
9/18/2020	RESPONSES TO HRW COMMENTS RECEIVED 6/15/2020
12/10/2020	RESPONSES TO HRW COMMENTS RECEIVED 11/13/2020
1/11/2021	ADDRESSED HRW COMMENTS FOR NCDJQ SUBMITTALS

DATE  
1/11/2021

DRAWN BY  
331

DESIGNED BY  
331

CHECKED BY  
MVZ

SCALE  
1" = 50'

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## SERENITY PHASE 1A, 1B, & 1C

PINEY GROVE RAWLS RD., HARNETT COUNTY, NORTH CAROLINA

### DETAILED GRADING AND DRAINAGE PLAN - SHEET 1 OF 3

JOB NO.  
41158

SHEET NO.  
C4.2

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12/10/2020	RESPONSES TO HRV COMMENTS RECEIVED 11/13/2020
1/11/2021	ADDRESSED HRV COMMENTS FOR NCDEQ SUBMITTALS

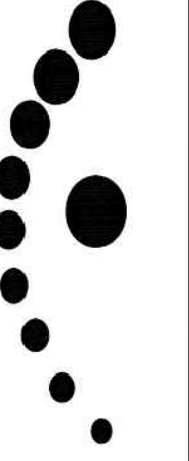
DATE  
1/11/2021

DRAWN BY  
331

DESIGNED BY  
331

CHECKED BY  
MVZ

SCALE  
1" = 50'



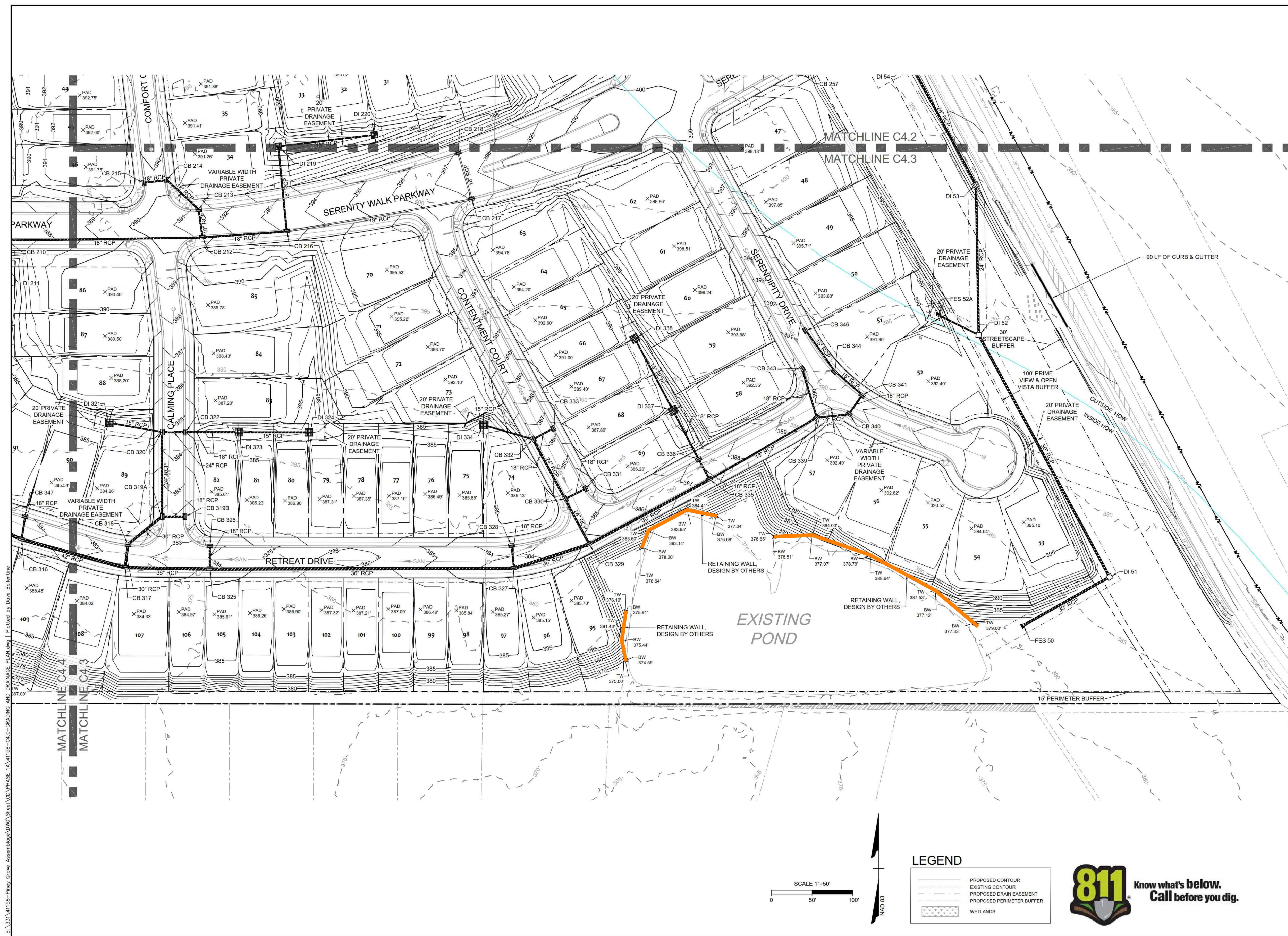
**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**SERENITY PHASE 1A, 1B, & 1C**  
PINEY GROVE RAWLIS RD., HARNETT COUNTY, NORTH CAROLINA

**DETAILED GRADING AND DRAINAGE PLAN - SHEET 2 OF 3**

JOB NO.  
41158  
SHEET NO.  
C4.3

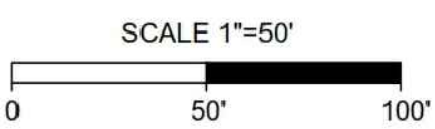
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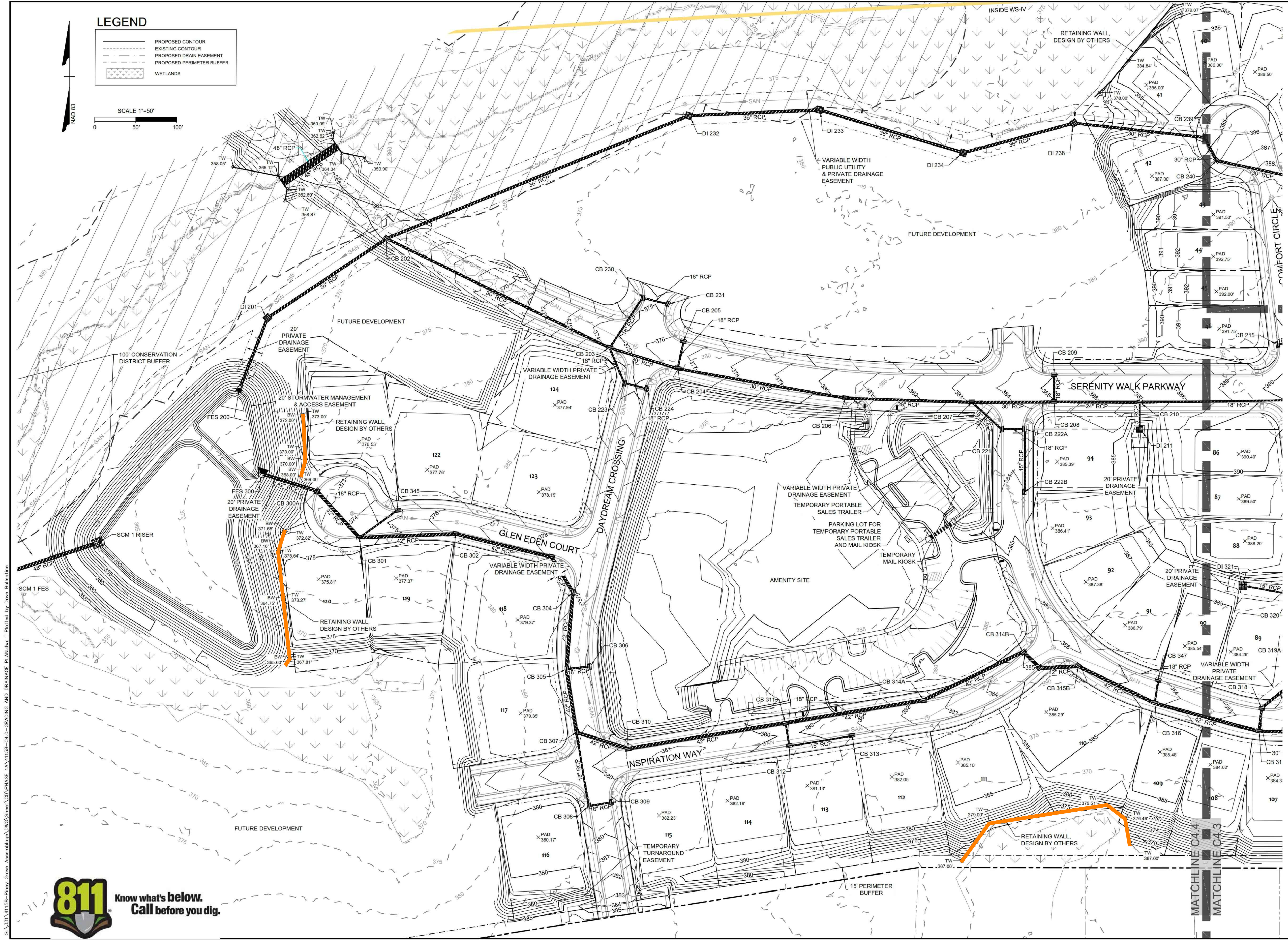
S:\331\41158-Piney Grove Assemblage.DWG Sheet\CD\PHASE 1A\41158-C4.0-GRADING AND DRAINAGE PLAN.dwg | Plotted by Dove Ballentine



**LEGEND**



NAD 83



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1/11/2021	ADDRESSED HRW COMMENTS FOR NCDCEQ SUBMITTALS

DATE  
1/11/2021

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MVZ

SCALE  
1" = 50'

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**SERENITY PHASE 1A, 1B, & 1C**  
 PINEY GROVE RAWLS RD., HARNETT COUNTY, NORTH CAROLINA

**DETAILED GRADING AND DRAINAGE PLAN - SHEET 3 OF 3**

JOB NO.  
41158

SHEET NO.  
C4.4

S:\331\41158-Piney Grove Assemblage\DWG\Sheet\C4.4-GRADING AND DRAINAGE PLAN.dwg | Plotted by Dave Ballentine



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