

| LEGEND | |
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| | GRIDLOK 370 |
| | GRIDLOK 540 |

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GEOTECHNICAL GENERAL NOTE:

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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 WALL.

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-2C AS PROVIDED BY 4D SITE SOLUTIONS CIVIL ENGINEERING & LAND SURVEYING SEALED 09/17/24.
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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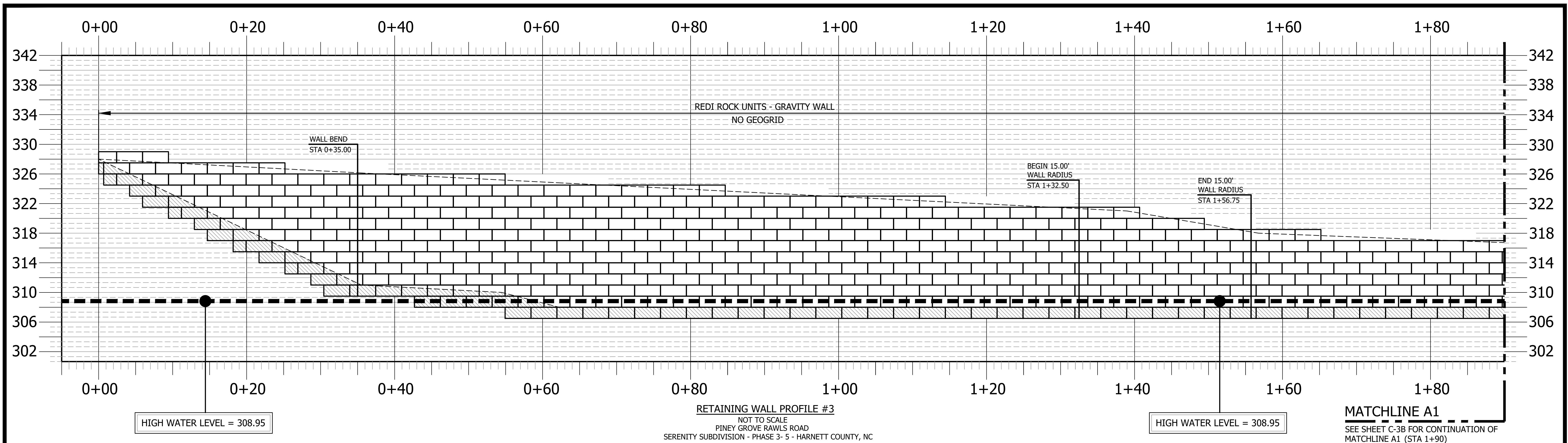
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EMAIL ADDRESS: BMONDSCHNEIN@VENTURE-E.COM
LICENSE NO. C-2590

SERENITY SUBDIVISION
PHASE 3-5 - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

RETAINING WALL PROFILE #2
SERENITY SUBDIVISION - PHASE 3-5 - HARNETT COUNTY, NC

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|------------------------|--|------------------------------|
| DATE: October 14, 2024 | SCALE HORIZONTAL: N/A VERTICAL: N/A | DRAWING NUMBER C-3 |
| DES: TLH | | |
| CHECKED: KLY | | |
| APPROVED: MJM | | |

VE PROJECT NO. 00240001 - SERENITY SUBDIVISION - PHASE 3-5



GEOTECHNICAL GENERAL NOTE:

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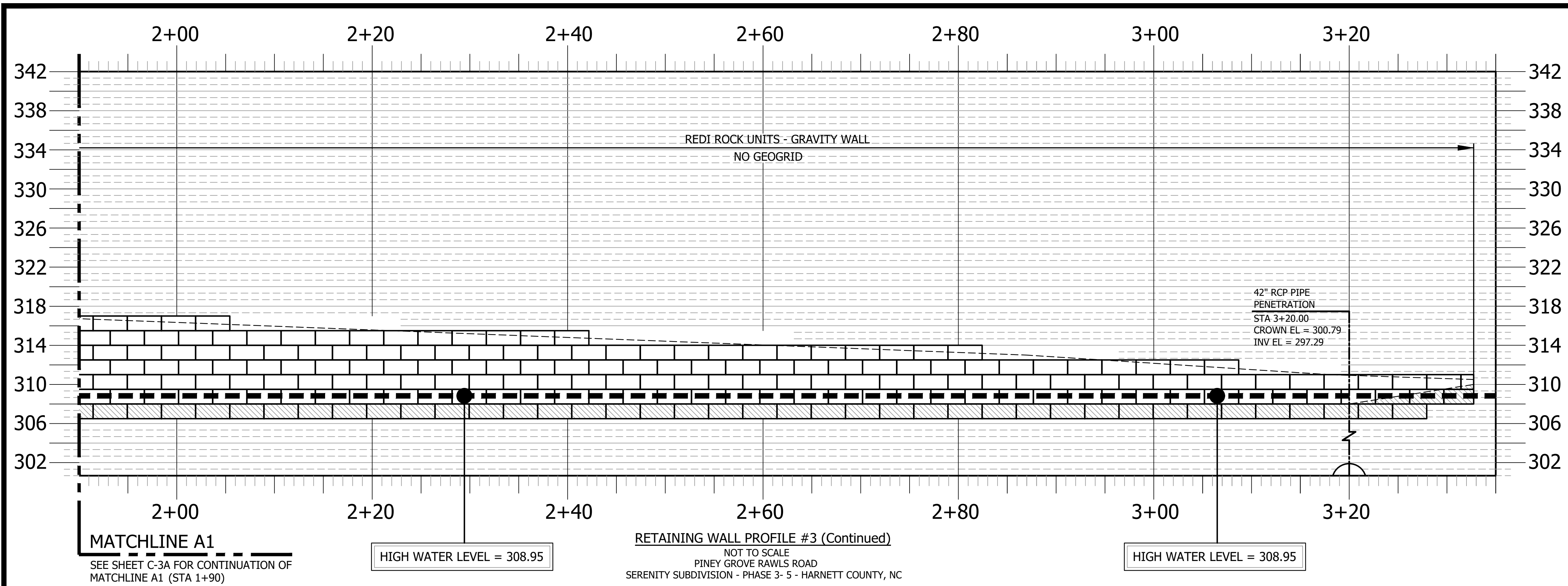
SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL PROFILE #3
 SERENITY SUBDIVISION - PHASE 3-5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 | SCALE: HORIZONTAL: N/A VERTICAL: N/A | DRAWING NUMBER: C-3A |
| DES: TLH | | |
| CHECKED: KLY APPROVED: MJM | | |

SERENITY SUBDIVISION - PHASE 3-5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA

VE PROJECT NO. 00240001 - SERENITY SUBDIVISION - PHASE 3-5



MATCHLINE A1
SEE SHEET C-3A FOR CONTINUATION OF MATCHLINE A1 (STA 1+90)

HIGH WATER LEVEL = 308.95

RETAINING WALL PROFILE #3 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

HIGH WATER LEVEL = 308.95

GEOTECHNICAL GENERAL NOTE:

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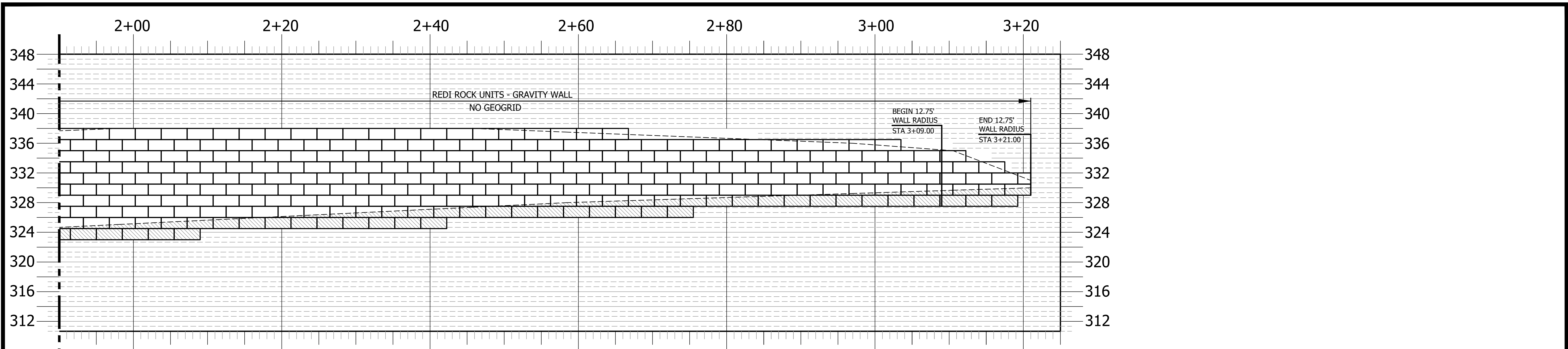


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SERENITY SUBDIVISION
PHASE 3-5 - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

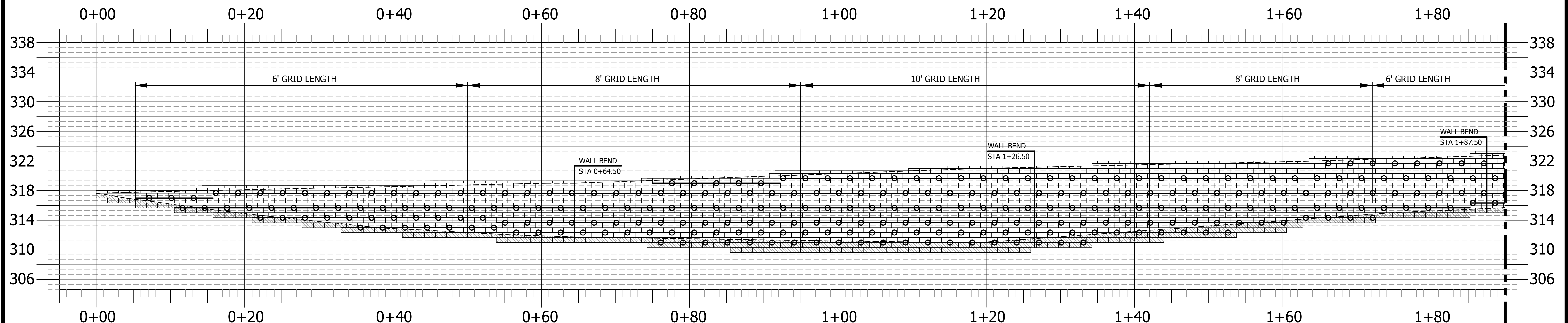
RETAINING WALL PROFILE #3 (Continued)
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 | SCALE | DRAWING NUMBER C-3B | |
| DES: TLH | | | HORIZONTAL: N/A |
| CHECKED: KLY | | | VERTICAL: N/A |
| APPROVED: MJM | | | |



MATCHLINE B
SEE SHEET C-4 FOR CONTINUATION OF MATCHLINE B (STA 1+90)

RETAINING WALL PROFILE #4 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC



RETAINING WALL PROFILE #5
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

MATCHLINE C
SEE SHEET C-6 FOR CONTINUATION OF MATCHLINE C (STA 1+90)

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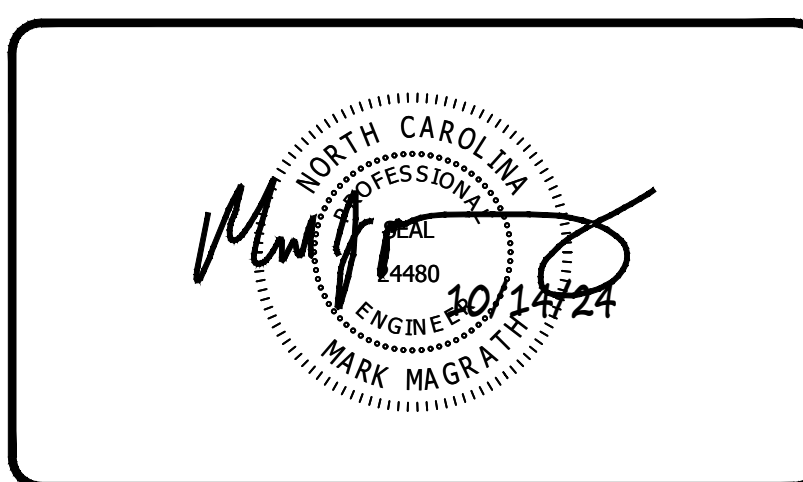
GENERAL DESIGN NOTE:

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LEGEND
○—○—○ GRIDLOK 370

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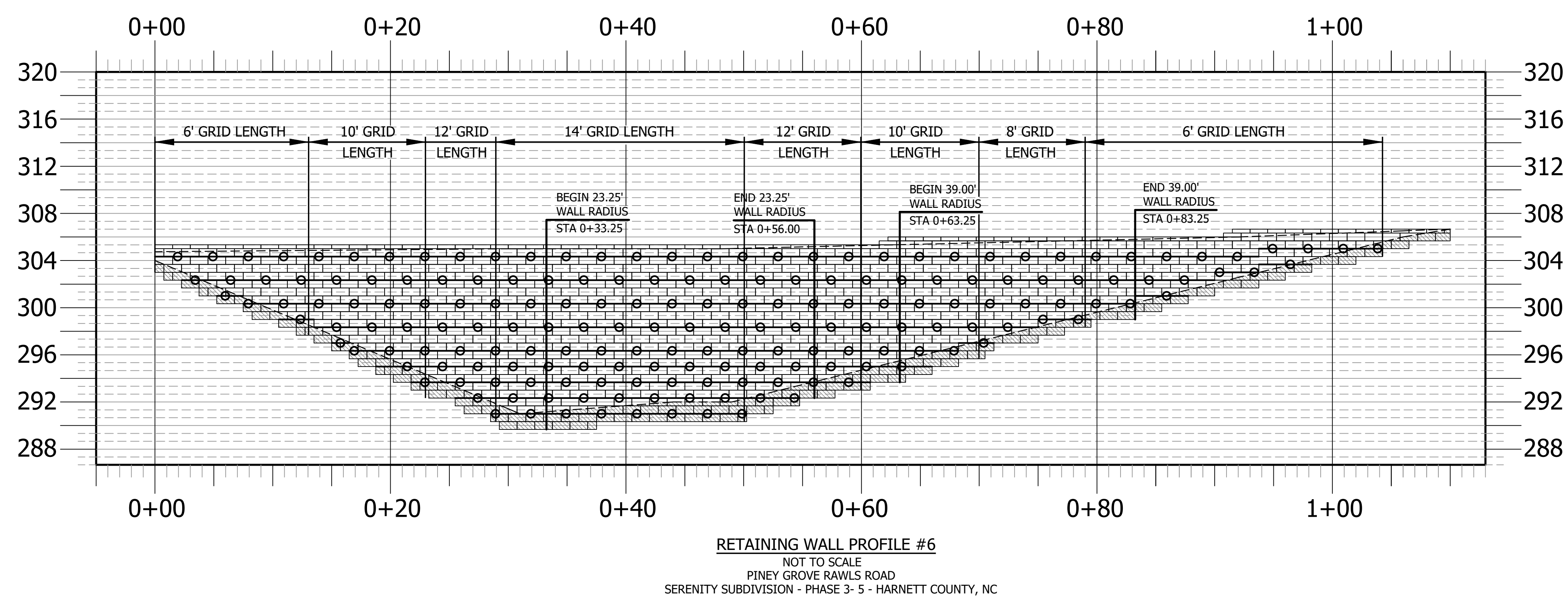
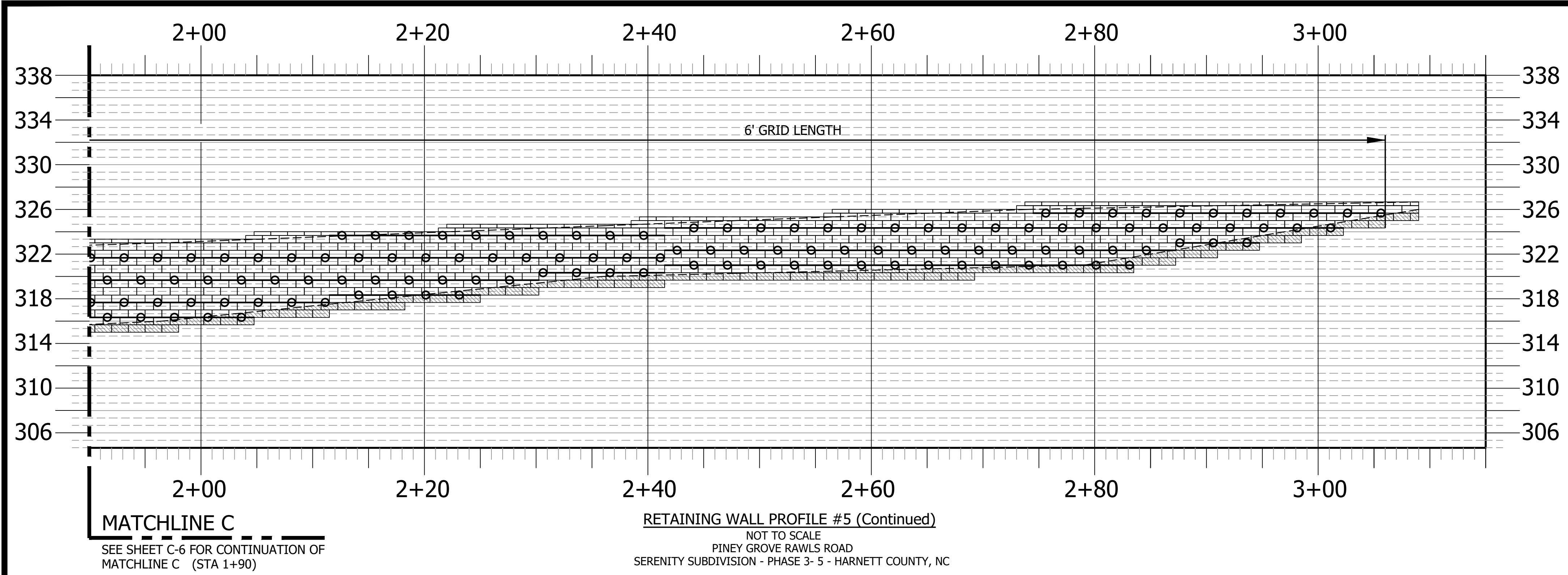
SERENITY SUBDIVISION
PHASE 3-5 - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

RETAINING WALL PROFILE #4 (Continued) & #5
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 |
| DES: TLH |
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| APPROVED: MJM |

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| SCALE |
| HORIZONTAL: N/A |
| VERTICAL: N/A |

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| DRAWING NUMBER |
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LEGEND
 GRIDLOK 370

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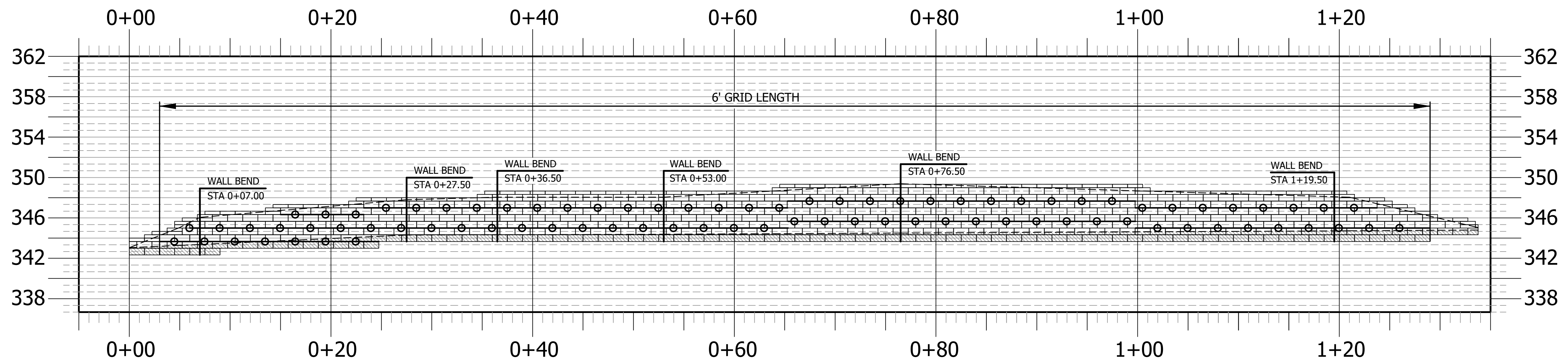


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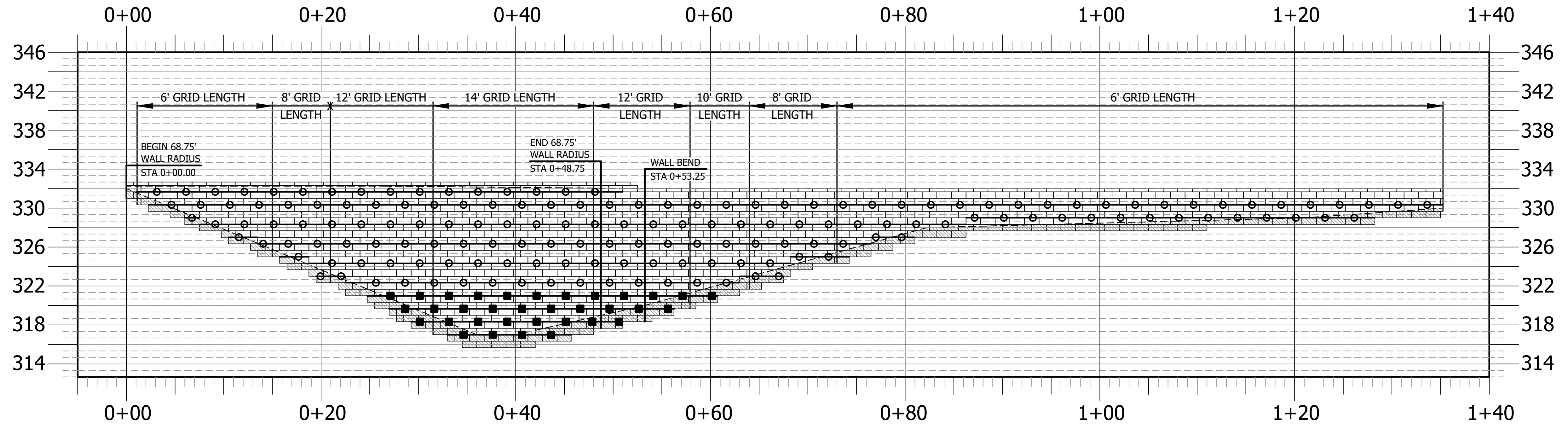
SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL PROFILE #5 (Continued) & #6
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 | SCALE HORIZONTAL: N/A VERTICAL: N/A | DRAWING NUMBER C-6 |
| CHECKED: KLY | | |
| APPROVED: MJM | | |



RETAINING WALL PROFILE #10
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC



RETAINING WALL PROFILE #11
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| LEGEND | |
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| | GRIDLOK 370 |
| | GRIDLOK 540 |

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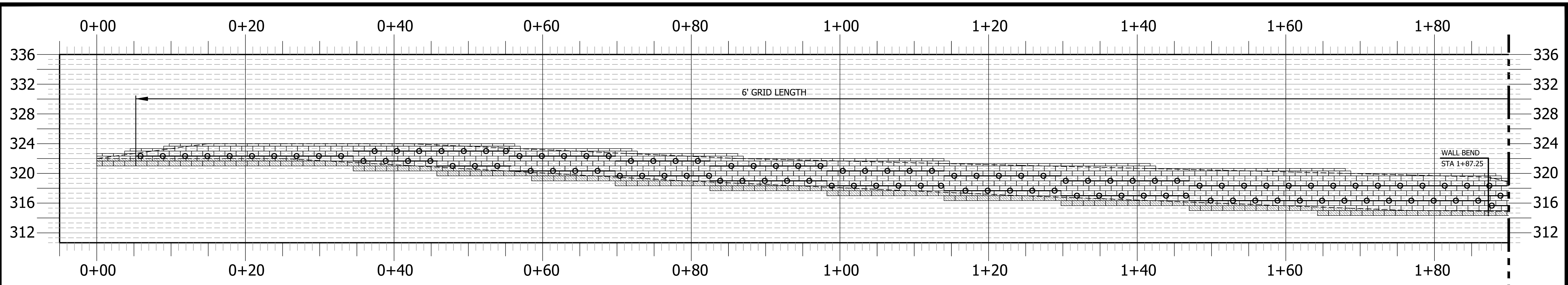
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SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL PROFILE #10 & #11
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

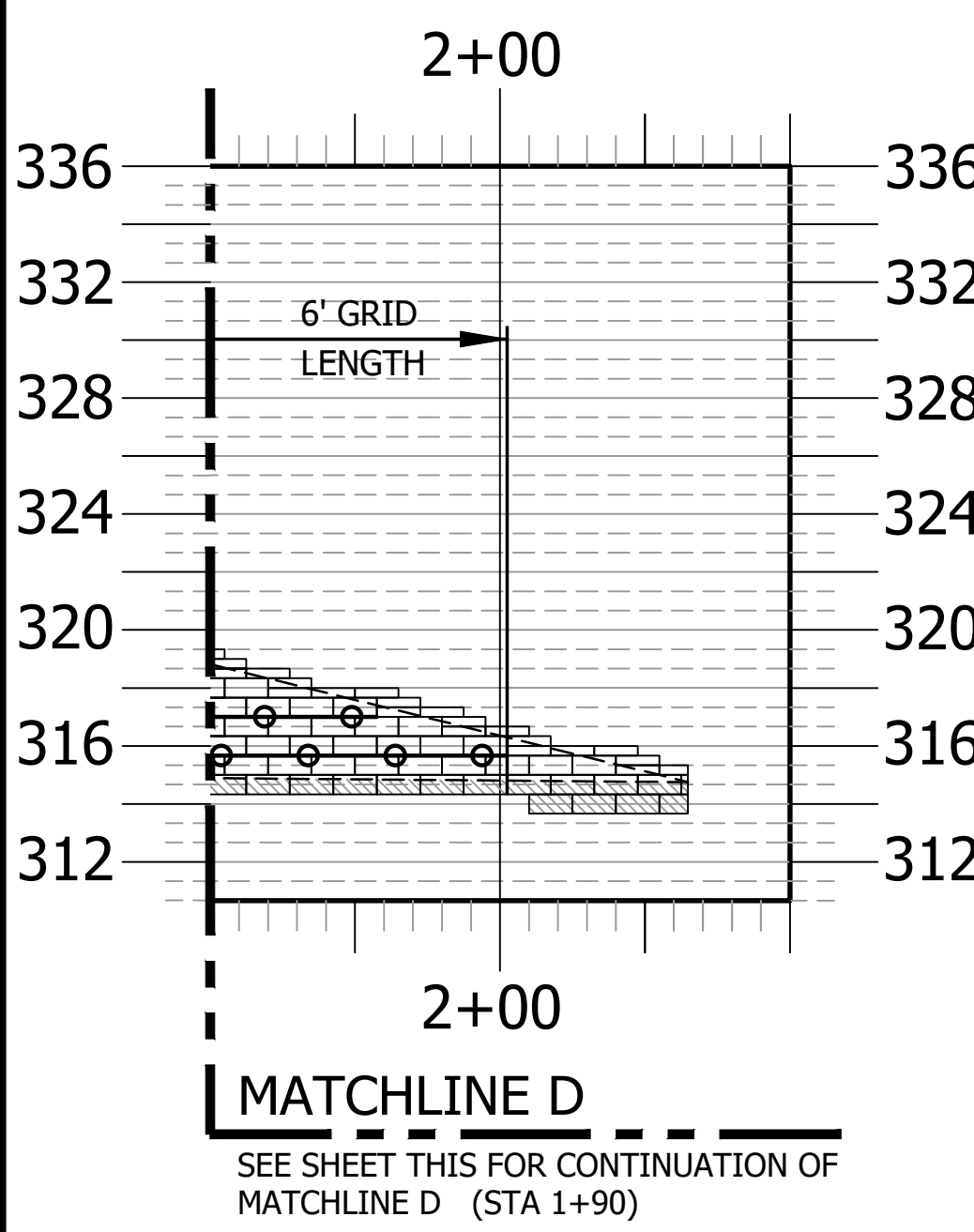
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| DATE: October 14, 2024 | SCALE: | DRAWING NUMBER C-8 |
| DES: TLH | HORIZONTAL: N/A | |
| CHECKED: KLY | VERTICAL: N/A | |
| APPROVED: MJM | | |

SERENITY SUBDIVISION - PHASE 3- 5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA

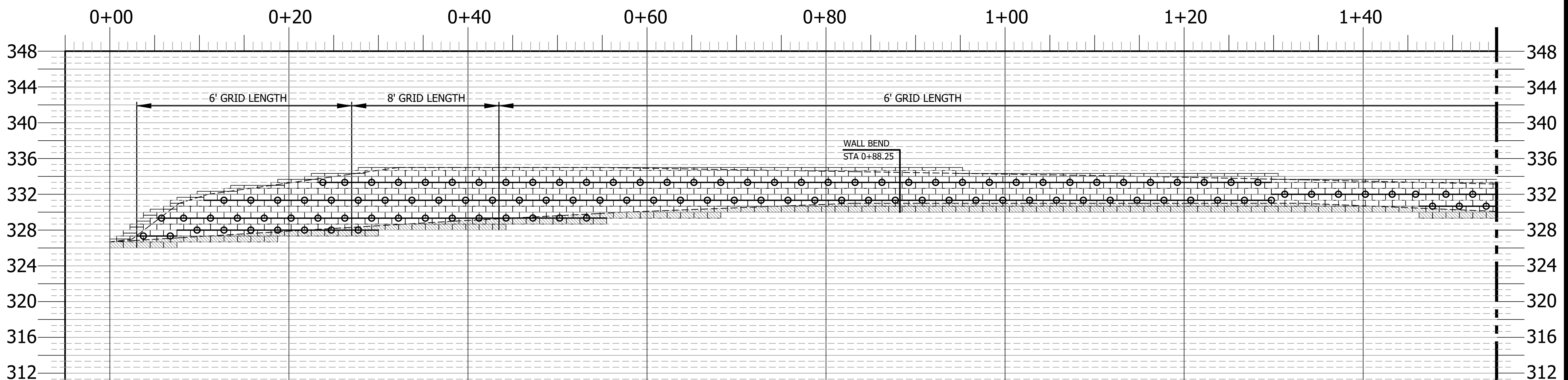


RETAINING WALL PROFILE #12
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

MATCHLINE D
 SEE SHEET THIS FOR CONTINUATION OF MATCHLINE D (STA 1+90)



RETAINING WALL PROFILE #12 (Continued)
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC



RETAINING WALL PROFILE #13
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

MATCHLINE E
 SEE SHEET C-10 FOR CONTINUATION OF MATCHLINE E (STA 1+55)

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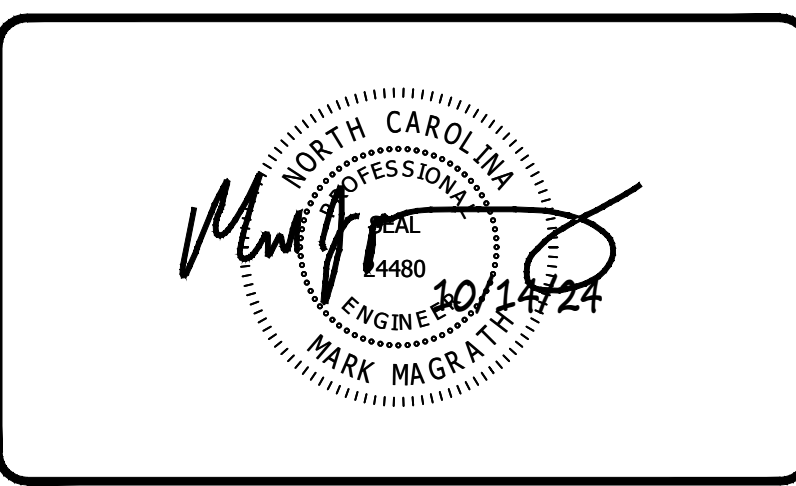
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 GRIDLOK 370

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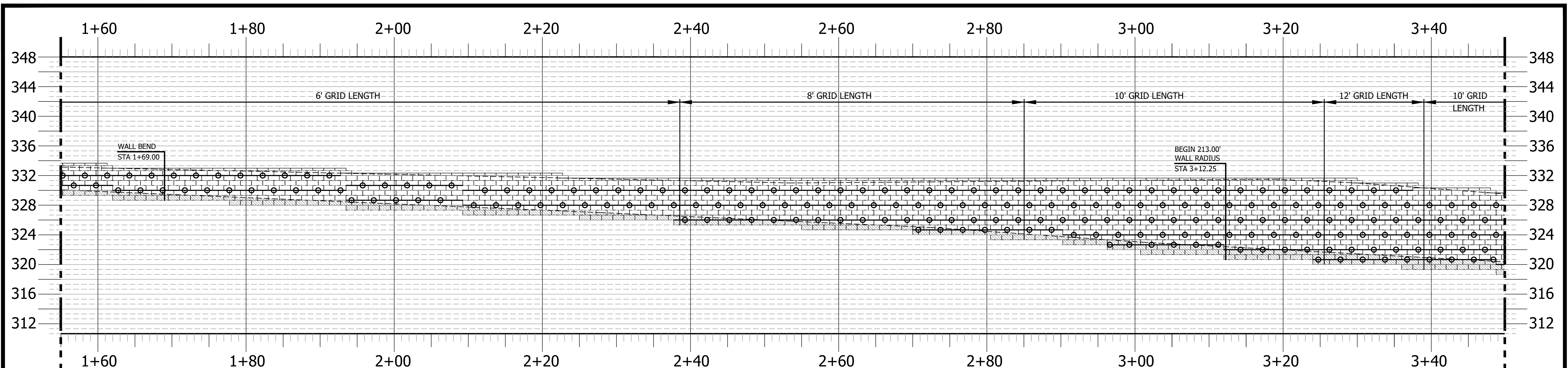
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SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

RETAINING WALL PROFILE #12 & #13
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 | SCALE HORIZONTAL: N/A VERTICAL: N/A | DRAWING NUMBER C-9 |
| DES: TLH | | |
| CHECKED: KLY | | |
| APPROVED: MJM | | |

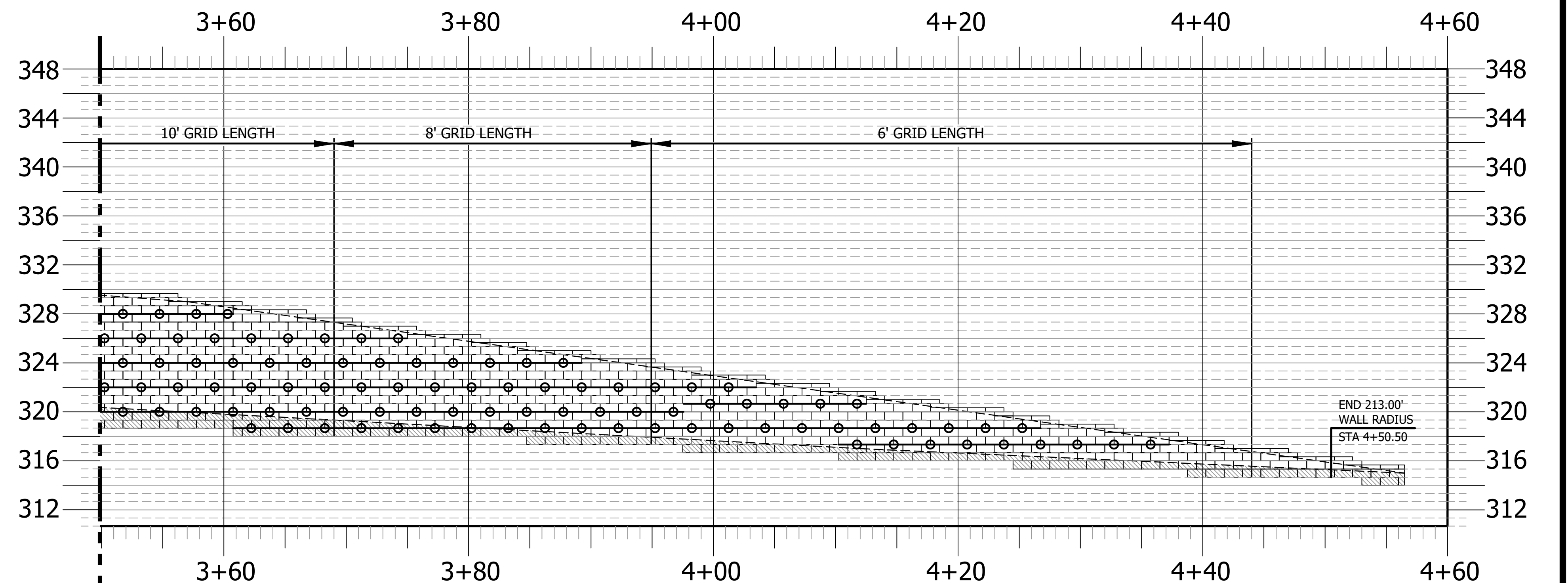
SERENITY SUBDIVISION - PHASE 3- 5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
 VE PROJECT NO. 00240001 - SERENITY SUBDIVISION - PHASE 3- 5



MATCHLINE E
SEE SHEET C-9 FOR CONTINUATION OF MATCHLINE E (STA 1+55)

RETAINING WALL PROFILE #13 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

MATCHLINE F
SEE THIS SHEET FOR CONTINUATION OF MATCHLINE F (STA 3+50)



MATCHLINE F
SEE THIS SHEET FOR CONTINUATION OF MATCHLINE F (STA 3+50)

RETAINING WALL PROFILE #13 (Continued)
NOT TO SCALE
PINEY GROVE RAWLS ROAD
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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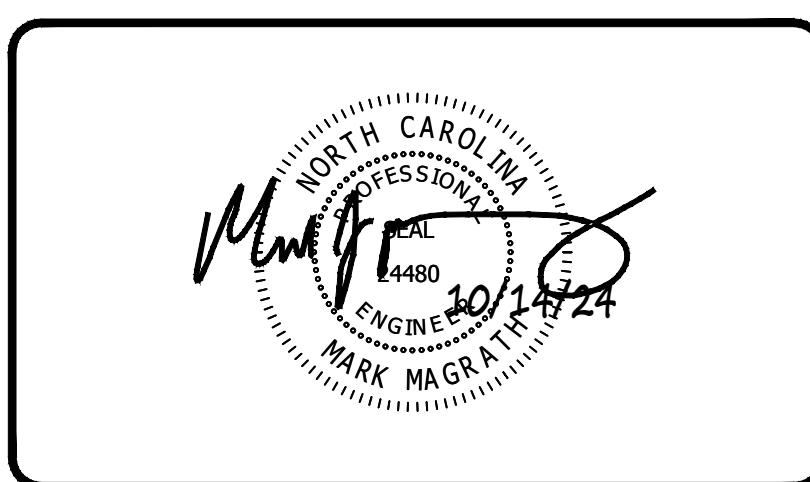
GENERAL DESIGN NOTE:

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-2C AS PROVIDED BY 4D SITE SOLUTIONS CIVIL ENGINEERING & LAND SURVEYING SEALED 09/17/24.
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.

LEGEND
○—○—○ GRIDLOK 370

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| NO. | DESCRIPTIONS | DATE |
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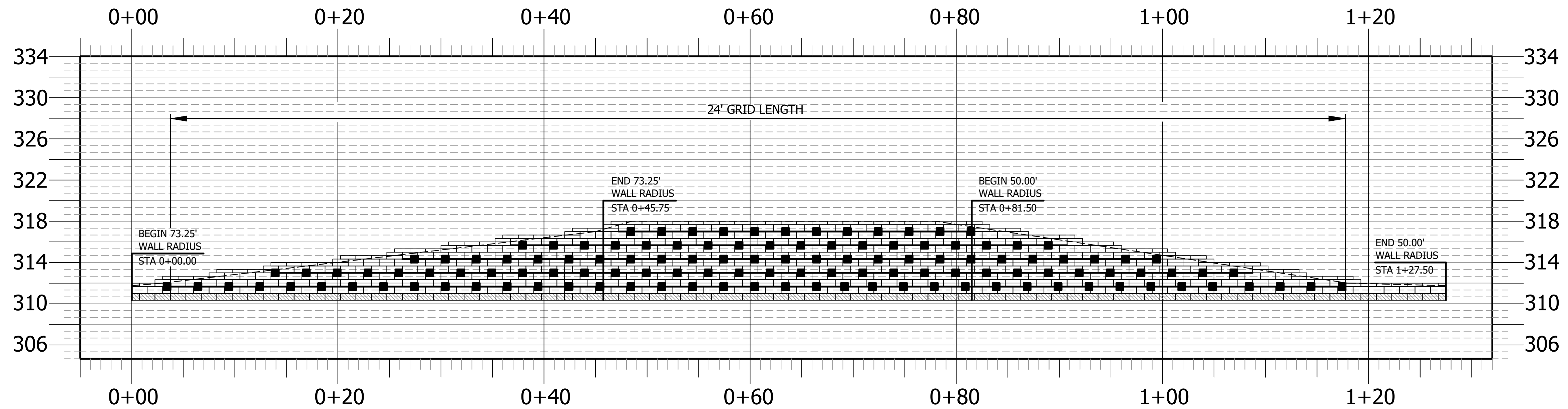
VE
Venture Engineering, P.A.
312 WEST MILLBROOK ROAD SUITE 237
RALEIGH, NC 27609
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EMAIL ADDRESS: BMONDSCHNEIN@VENTURE-E.COM
LICENSE NO. C-2590

SERENITY SUBDIVISION
PHASE 3-5 - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

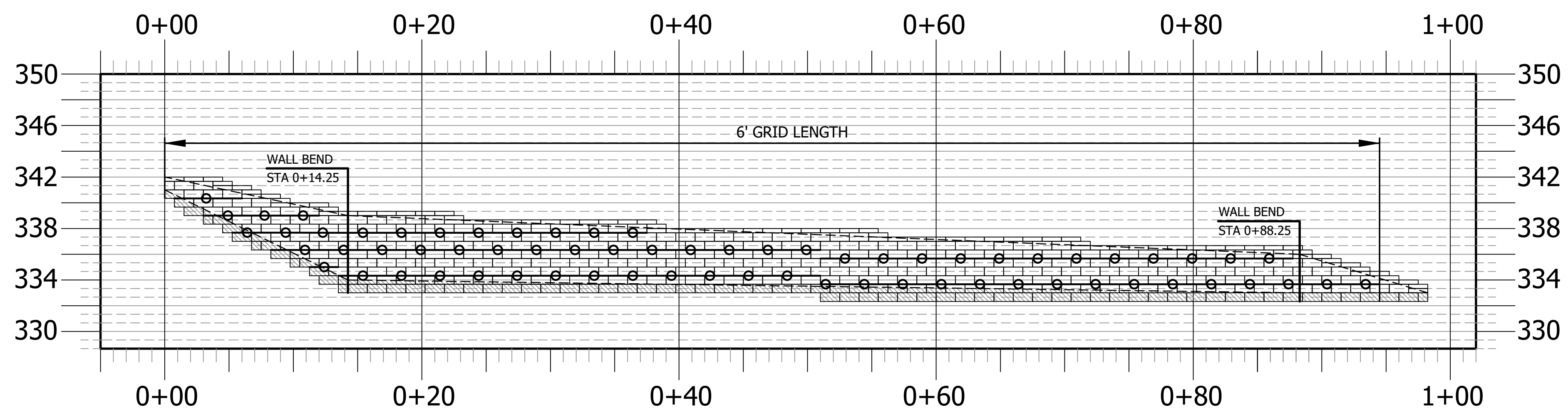
RETAINING WALL PROFILE #13 (Continued)
SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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| DATE: October 14, 2024 | SCALE HORIZONTAL: N/A VERTICAL: N/A | DRAWING NUMBER C-10 |
| DES: TLH | | |
| CHECKED: KLY | | |
| APPROVED: MJM | | |

SERENITY SUBDIVISION - PHASE 3- 5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA
VE PROJECT NO. 00240001 - SERENITY SUBDIVISION - PHASE 3- 5



RETAINING WALL PROFILE #14
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC



RETAINING WALL PROFILE #15
 NOT TO SCALE
 PINEY GROVE RAWLS ROAD
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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 WALL.

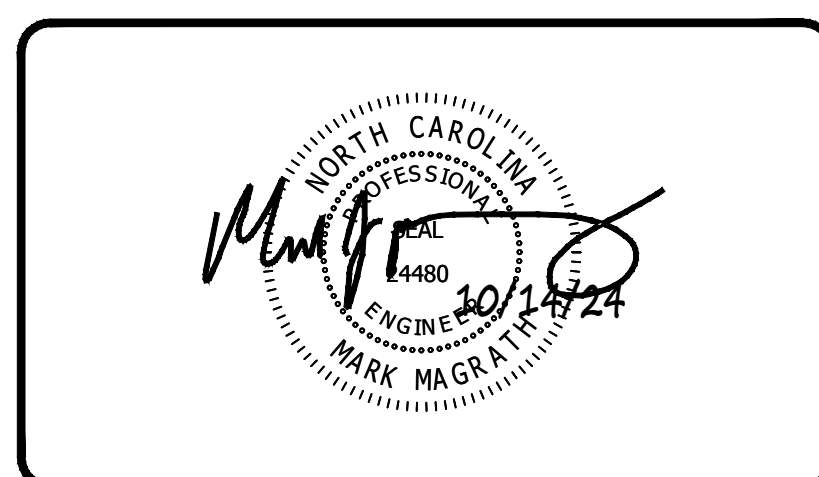
GENERAL DESIGN NOTE:

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| LEGEND | |
|--------|-------------|
| | GRIDLOK 370 |

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SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

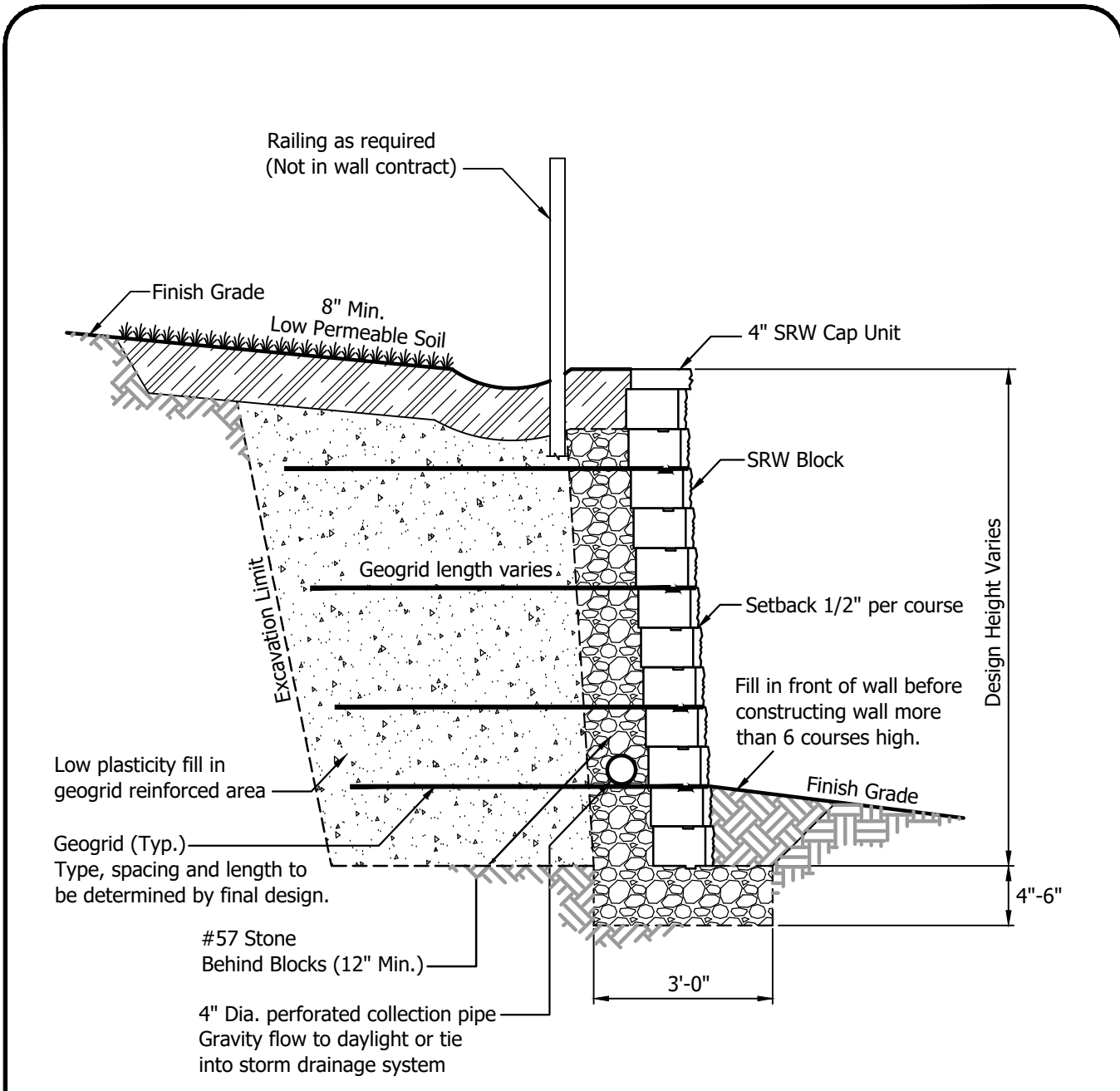
RETAINING WALL PROFILE #14 & #15
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

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|------------------------|
| DATE: October 14, 2024 |
| DES: TLH |
| CHECKED: KLY |
| APPROVED: MJM |

| SCALE |
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| HORIZONTAL: N/A |
| VERTICAL: N/A |

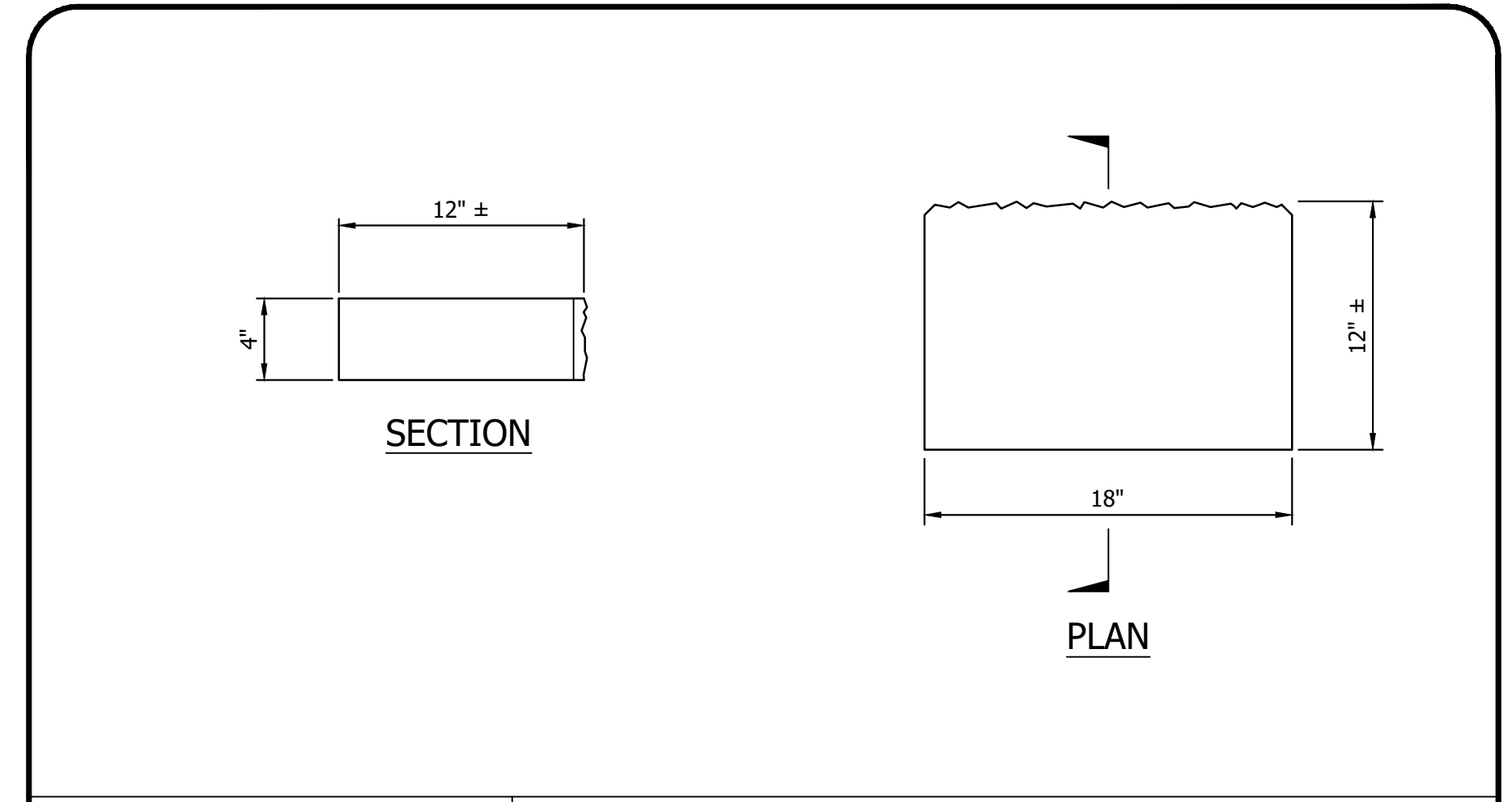
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| DRAWING NUMBER C-11 |
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SERENITY SUBDIVISION - PHASE 3- 5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA



SRW RETAINING WALL TYPICAL CROSS SECTION

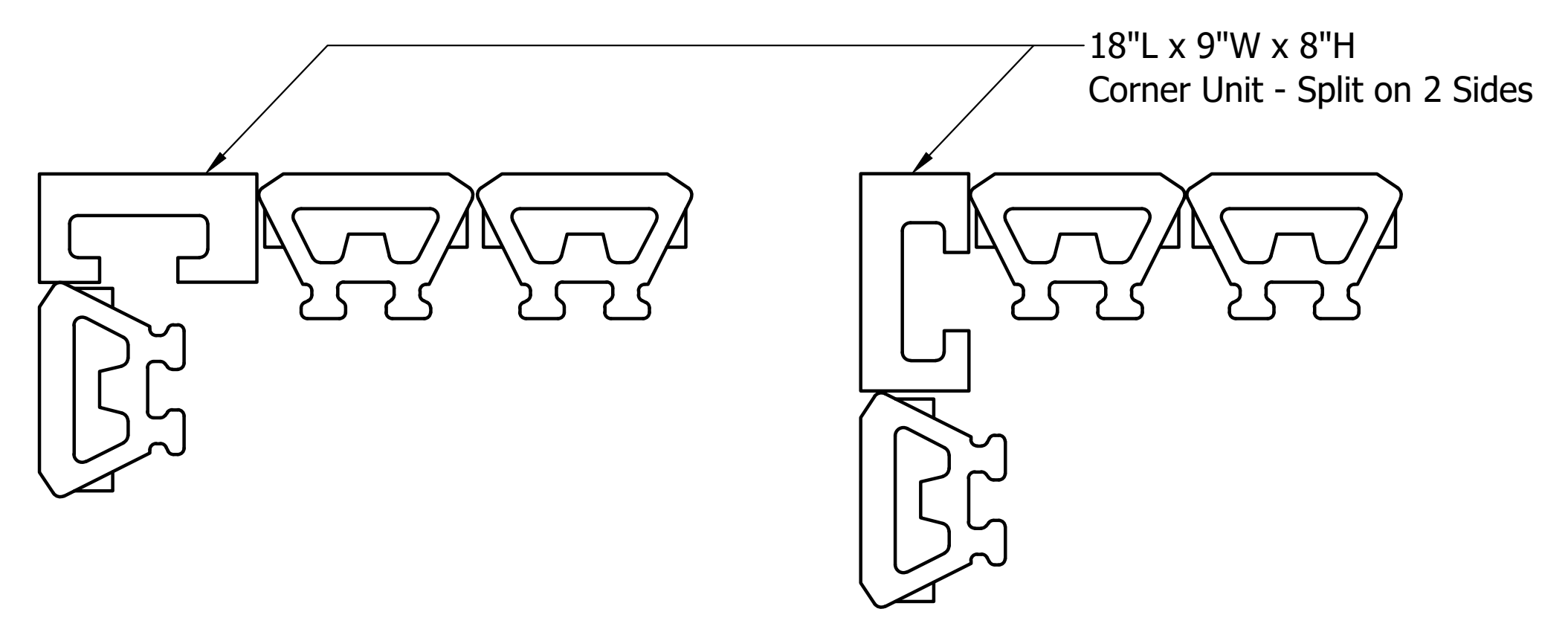
SRW DETAIL | 1 of 1 SHEET NO. | DATE



SRW CAP UNIT DETAILS

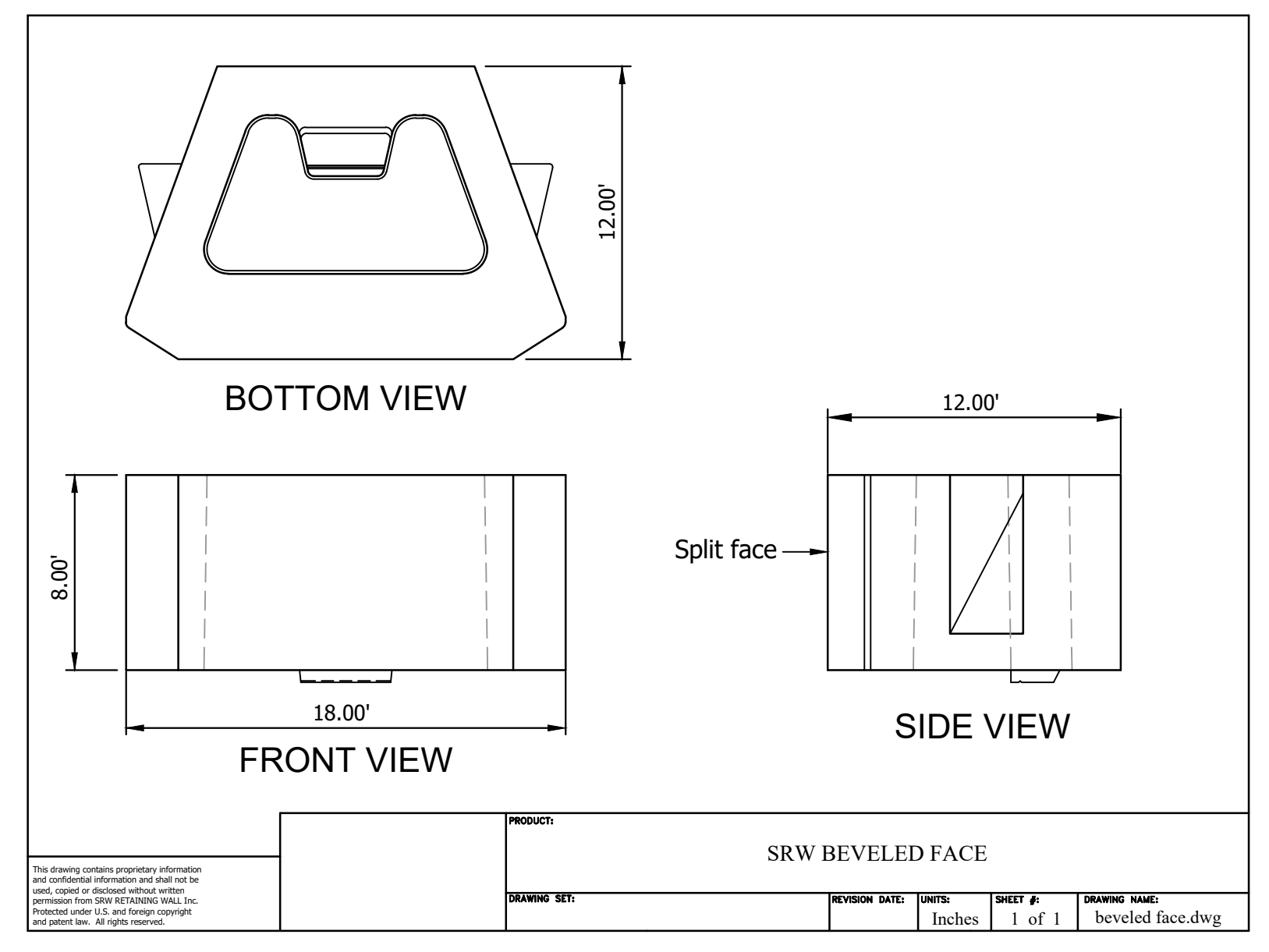
SRW DETAILS | 1 of 1 SHEET NO. | 2/2008 DATE

Note:
Trim Face block to fit to accommodate setback.



Typical Outside Corner Formation Detail

Design By Others



SRW BEVELED FACE

PROJECT: | DRAWING SET: | REVISION DATE: | UNITS: Inches | SHEET # 1 of 1 | DRAWING NAME: beveled face.dwg

GEOTECHNICAL GENERAL NOTE:

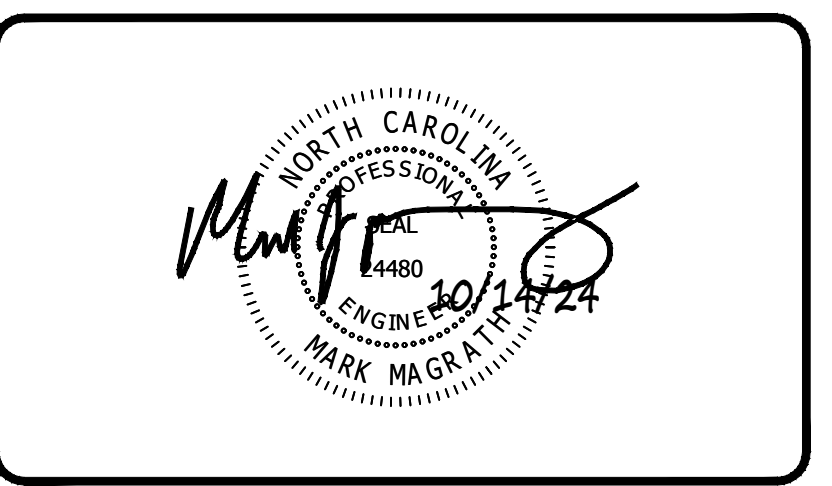
1. GEOTECHNICAL INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. THEREFORE, ASSUMPTIONS WERE MADE BASED ON SOIL CHARACTERISTICS IN THE AREA (REFER TO SHEET C-1). IF SOILS ARE DIFFERENT IN THE FIELD THAN LISTED IN THE GEOTECHNICAL REPORT, VENTURE ENGINEERING, P.A. MUST BE NOTIFIED IMMEDIATELY BEFORE WORK CAN CONTINUE.
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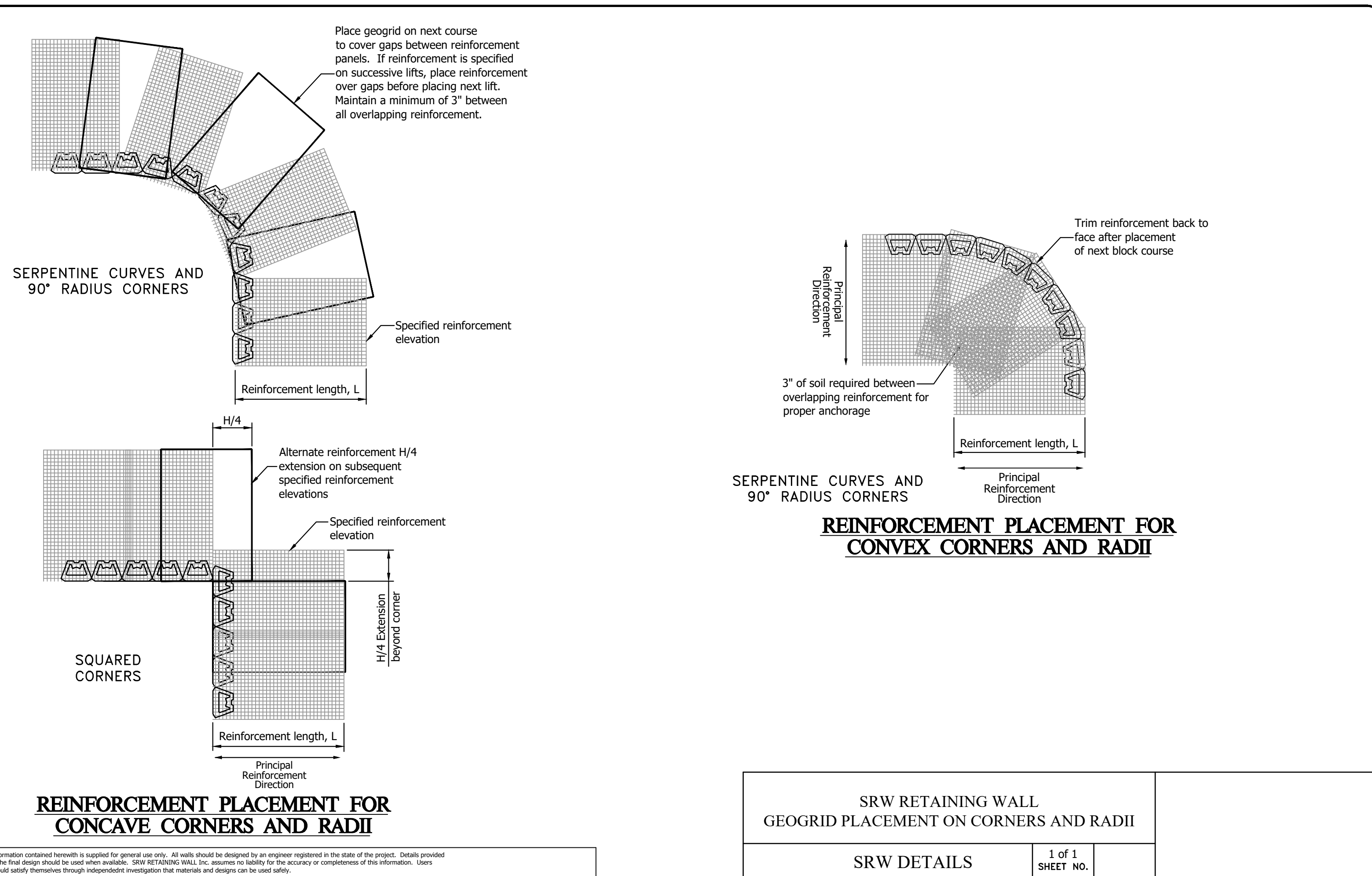


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SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

DETAIL SHEET - SHEET 1 OF 3
 SERENITY SUBDIVISION - PHASE 3-5 - HARNETT COUNTY, NC

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|------------------------|-----------------|-------------------------------|
| DATE: October 14, 2024 | SCALE: | DRAWING NUMBER C-12 |
| DES: TLH | HORIZONTAL: N/A | |
| CHECKED: KLY | VERTICAL: N/A | |
| APPROVED: MJM | | |



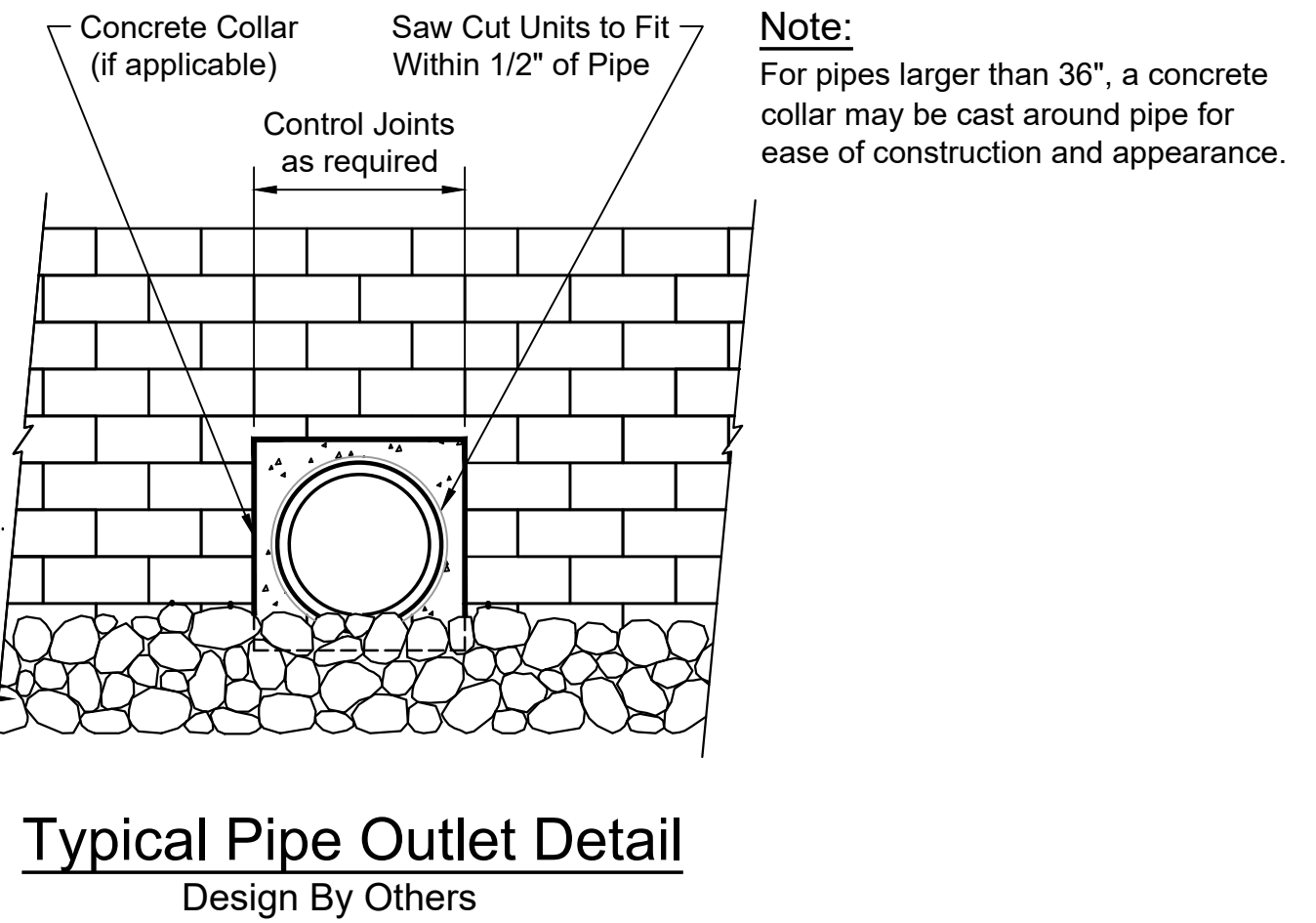
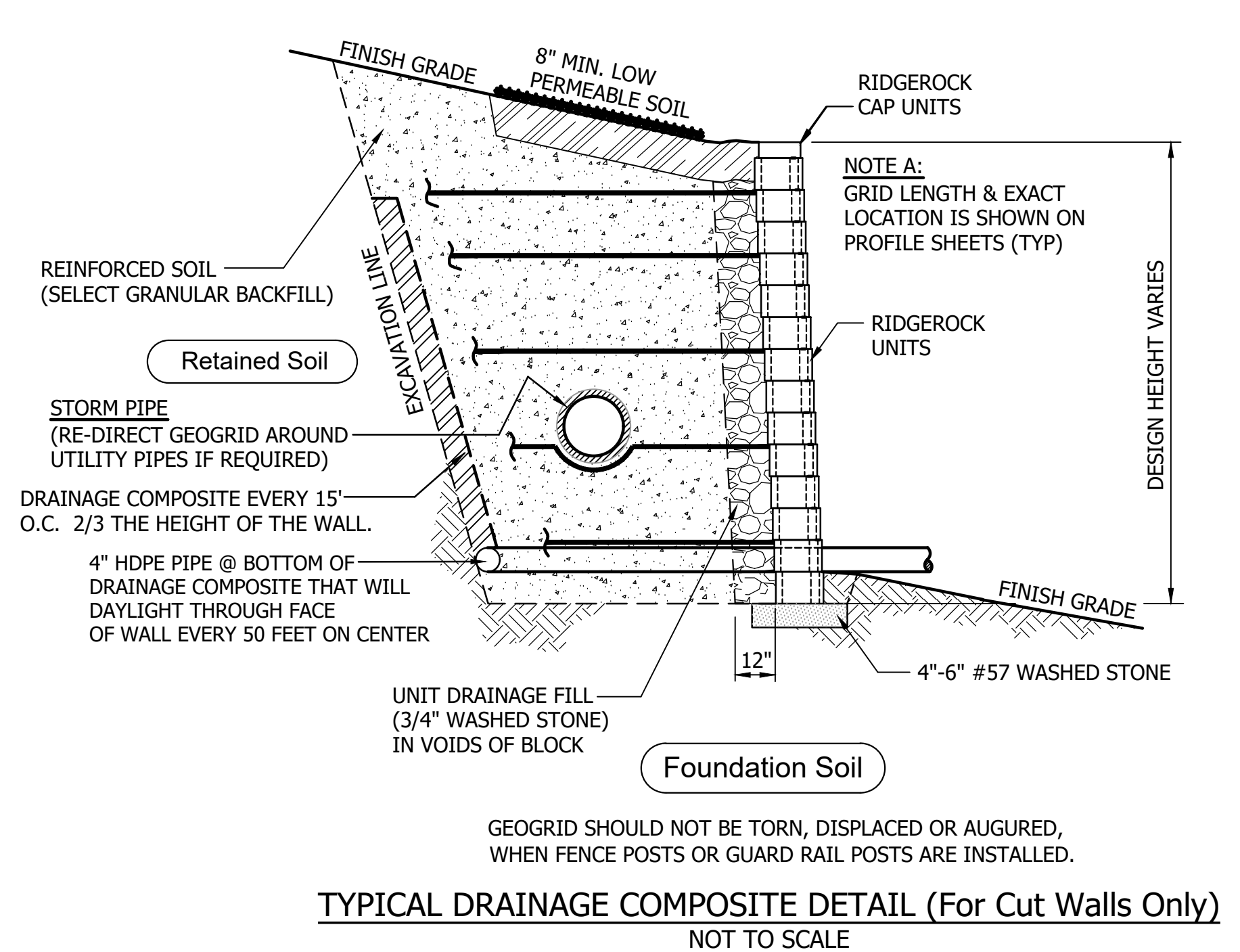
GEOTECHNICAL GENERAL NOTE:

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| | | |
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| SRW RETAINING WALL GEOGRID PLACEMENT ON CORNERS AND RADII | | |
| SRW DETAILS | 1 of 1 | SHEET NO. |



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SERENITY SUBDIVISION
 PHASE 3-5 - RETAINING WALLS
 PINEY GROVE RAWLS ROAD
 HARNETT COUNTY, NC

DETAIL SHEET - SHEET 2 OF 3
 SERENITY SUBDIVISION - PHASE 3- 5 - HARNETT COUNTY, NC

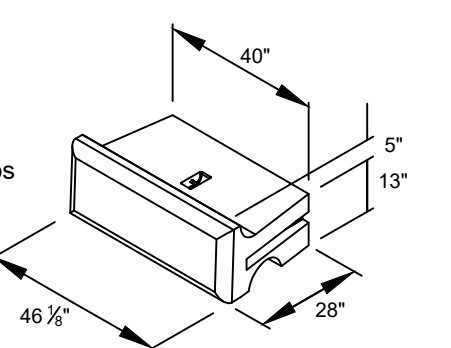
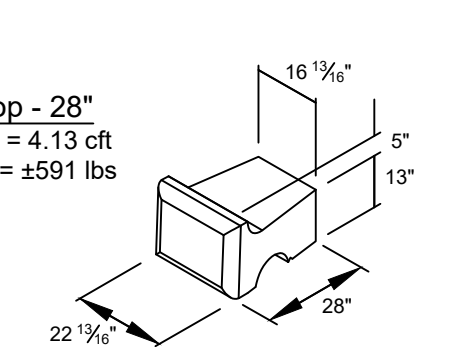
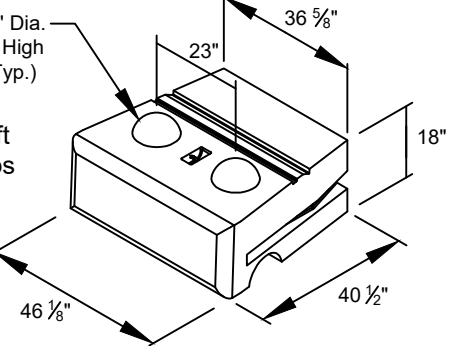
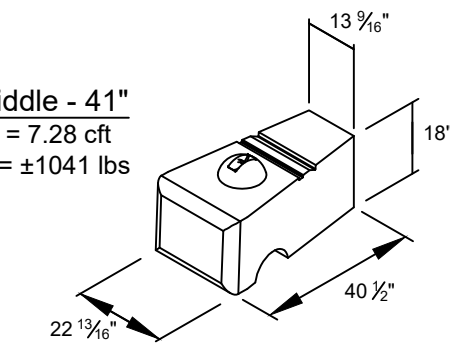
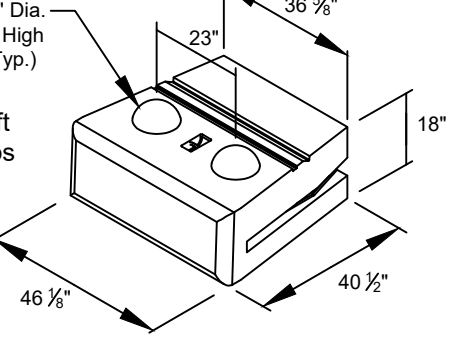
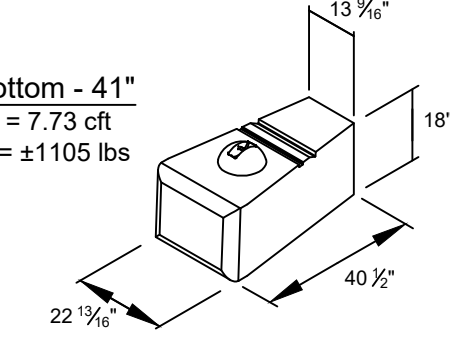
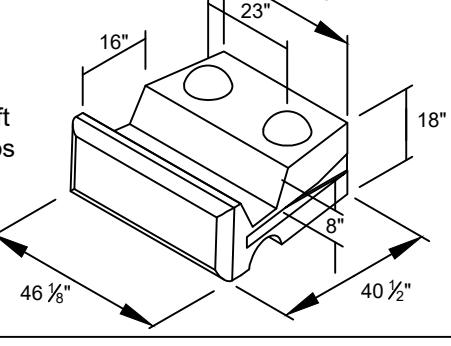
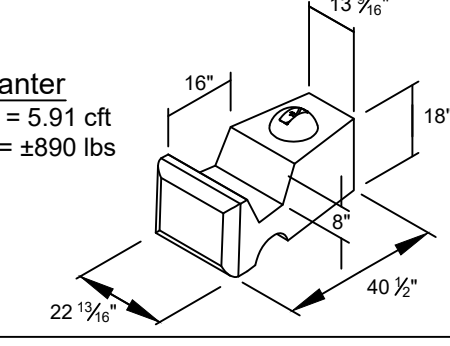
DATE: October 14, 2024
 DES: TLH
 CHECKED: KLY
 APPROVED: MJM

SCALE:
 HORIZONTAL: N/A
 VERTICAL: N/A

DRAWING NUMBER
C-13

SERENITY SUBDIVISION - PHASE 3- 5 - RETAINING WALL CONSTRUCTION - HARNETT COUNTY, NORTH CAROLINA

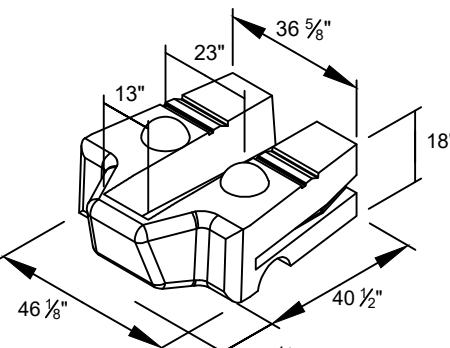
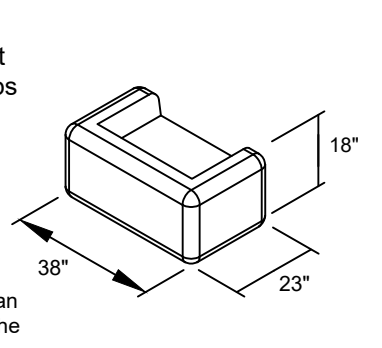
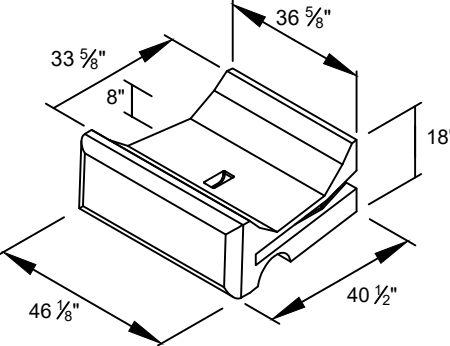
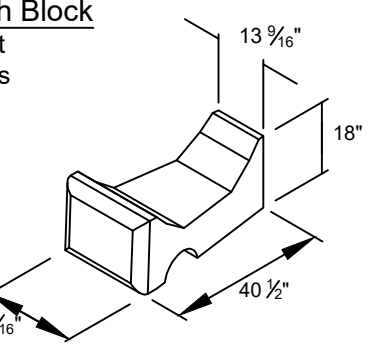
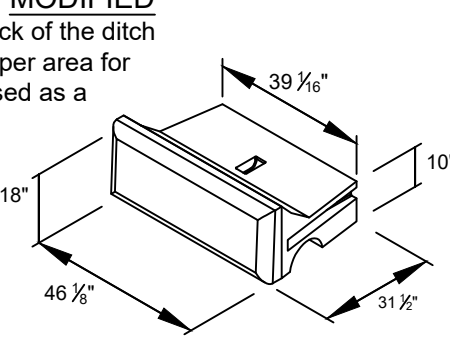
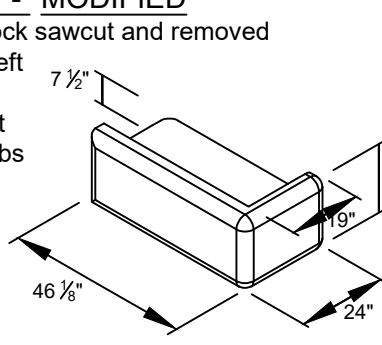
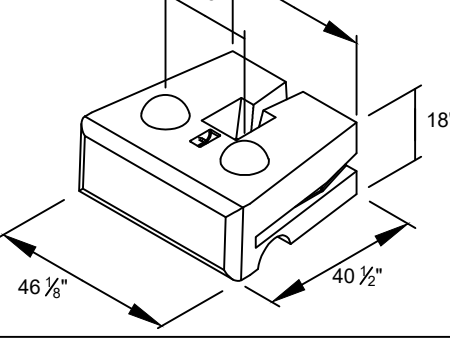
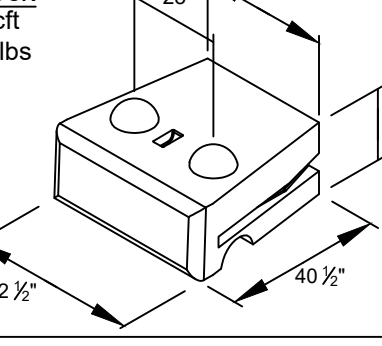
41" SERIES BLOCKS

| | |
|--|--|
| <p>Top - 28" Volume = 8.55 cft Weight = ±1223 lbs C of G = 15.06"</p>  | <p>Half Top - 28" Volume = 4.13 cft Weight = ±591 lbs</p>  |
| <p>Middle - 41" 10" Dia. 4" High (Typ.) Volume = 16.44 cft Weight = ±2351 lbs C of G = 20.92"</p>  | <p>Half Middle - 41" Volume = 7.28 cft Weight = ±1041 lbs</p>  |
| <p>Bottom - 41" 10" Dia. 4" High (Typ.) Volume = 17.37 cft Weight = ±2483 lbs C of G = 21.3"</p>  | <p>Half Bottom - 41" Volume = 7.73 cft Weight = ±1105 lbs</p>  |
| <p>Planter Volume = 14.12 cft Weight = ±2020 lbs C of G = 19.35"</p>  | <p>Half Planter Volume = 5.91 cft Weight = ±890 lbs</p>  |

NOTES:
Volume and Center of Gravity (C of G) calculations are based on the blocks as shown.
Center of Gravity is measured from the back of the block.
Half blocks may include a fork lift slot on one side.
Actual weights and volumes may vary.
Weight shown is based on 143 pcf concrete.

| | | |
|---|-------------------|--------------------------------------|
| DESIGNED BY: J. JOHNSON | DATE: 01/09/09 | Redi-Rock® International, LLC |
| DRAWING FILE: 41in Series Blocks 010909.dwg | SHEET NO.: 1 OF 1 | |

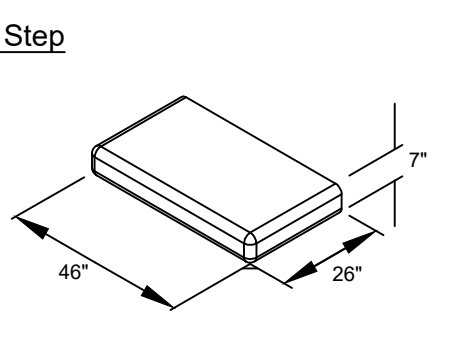
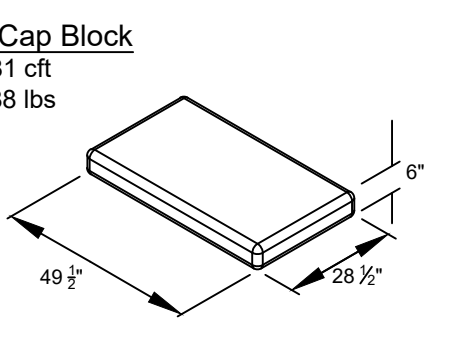
SPECIALTY BLOCKS

| | |
|--|--|
| <p>Protruding Planter Volume = 15.45 cft Weight = ±2210 lbs C of G = 24.71"</p>  <p>Note: Limestone face shown. Cobblestone face also available.</p> | <p>23" End Block Volume = 6.79 cft Weight = ±970 lbs C of G = 12.29"</p>  <p>Note: This block can also be used with the 28" Series blocks.</p> |
| <p>Drain Ditch Block Volume = 11.28 cft Weight = ±1614 lbs C of G = 21.57"</p>  | <p>Half Drain Ditch Block Volume = 5.01 cft Weight = ±717 lbs C of G = 22.96"</p>  |
| <p>Drain Ditch Block - MODIFIED (Block poured to the back of the ditch line. This provides deeper area for topsoil when block is used as a top block) Volume = 8.5 cft Weight = ±1215 lbs C of G = 18.1"</p>  | <p>Garden Corner - MODIFIED (Back edge of block sawcut and removed to make right or left top corner block) Volume = 8.26 cft Weight = ±1180 lbs</p>  |
| <p>Anchor Block Volume = 15.80 cft Weight = ±2259 lbs C of G = 21.2"</p>  | <p>42 1/2" Short Block Volume = 15.09 cft Weight = ±2150 lbs C of G = 21.00"</p>  |

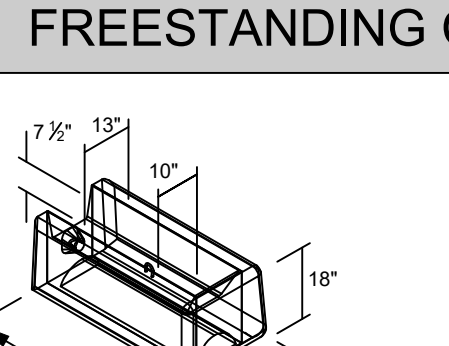
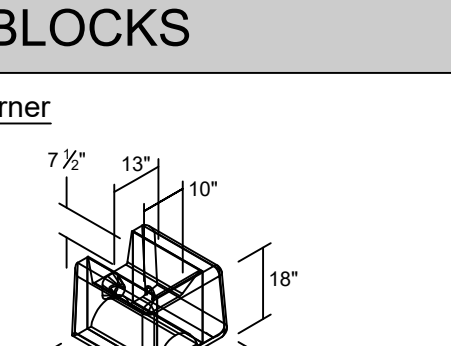
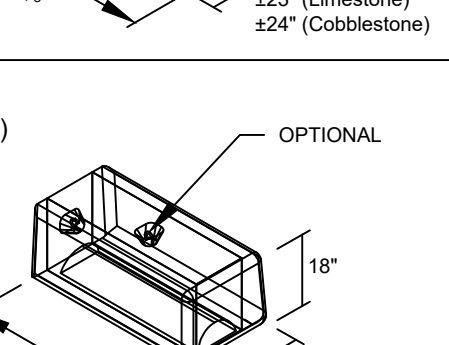
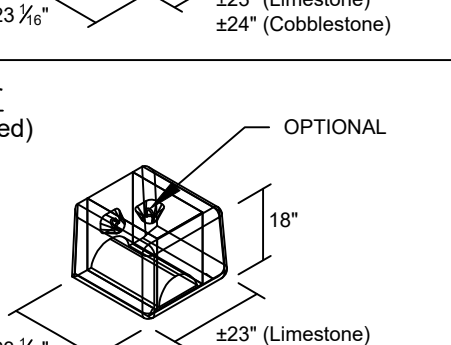
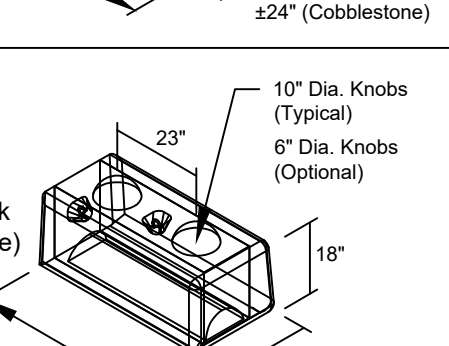
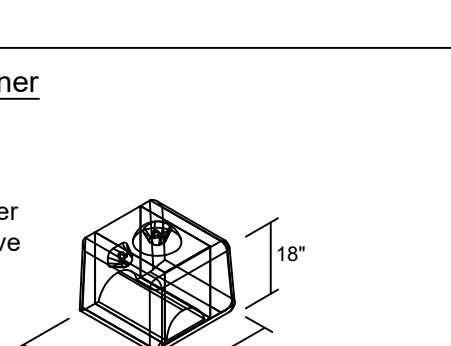
NOTES:
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Center of Gravity is measured from the back of the block.
Half blocks include a fork lift slot on one side.
Actual weights and volumes may vary.
Weight shown is based on 143 pcf concrete.

| | | |
|---|-------------------|--------------------------------------|
| DESIGNED BY: J. JOHNSON | DATE: 01/12/09 | Redi-Rock® International, LLC |
| DRAWING FILE: Specialty Blocks Used with 41in Series 011209.dwg | SHEET NO.: 1 OF 1 | |

STEPS

| | |
|---|--|
| <p>3-Sided Straight Step Volume = 4.58 cft Weight = ±655 lbs</p>  | <p>4-Sided 6" Cap Block Volume = 4.81 cft Weight = ±688 lbs</p>  |
|---|--|

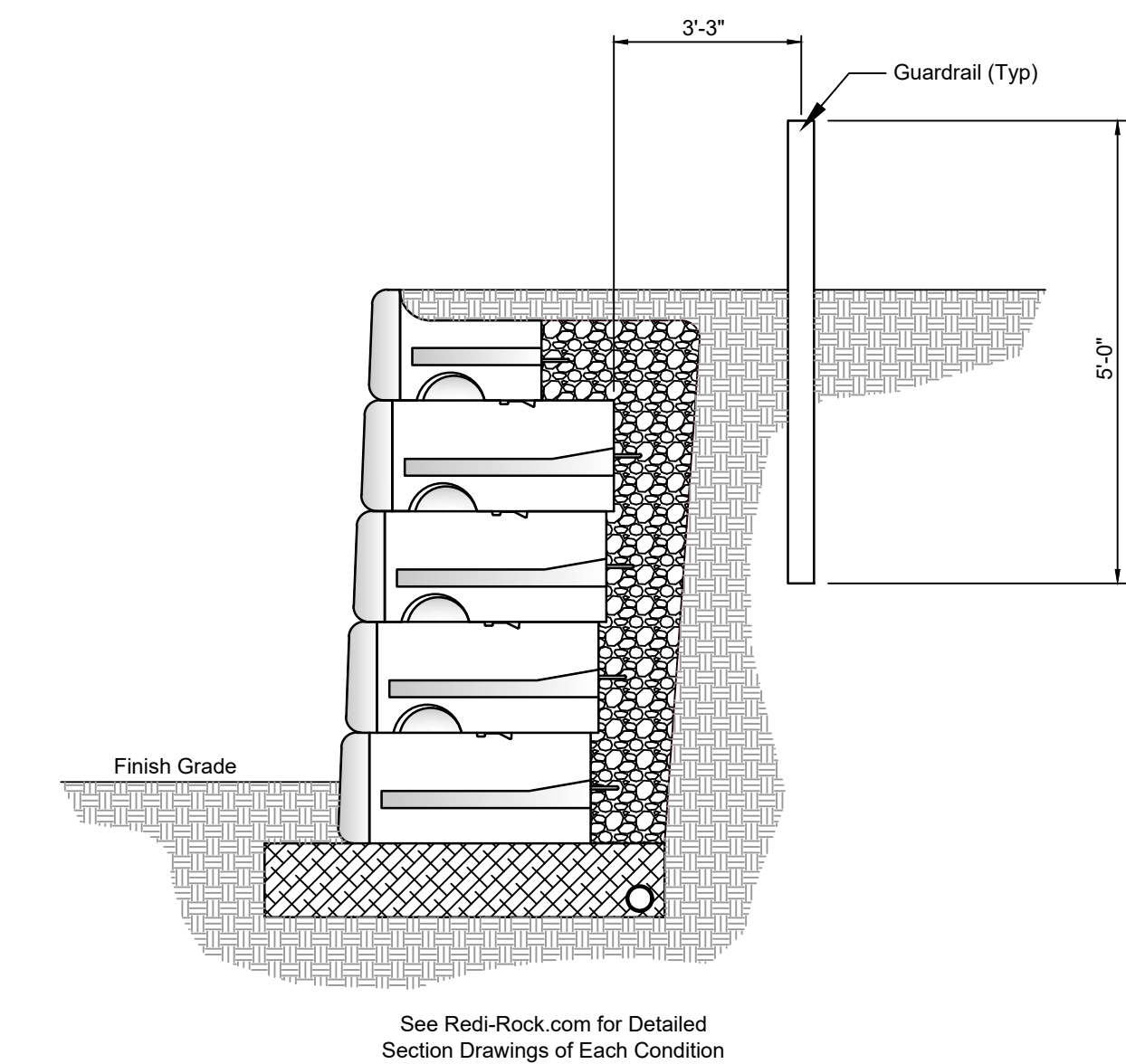
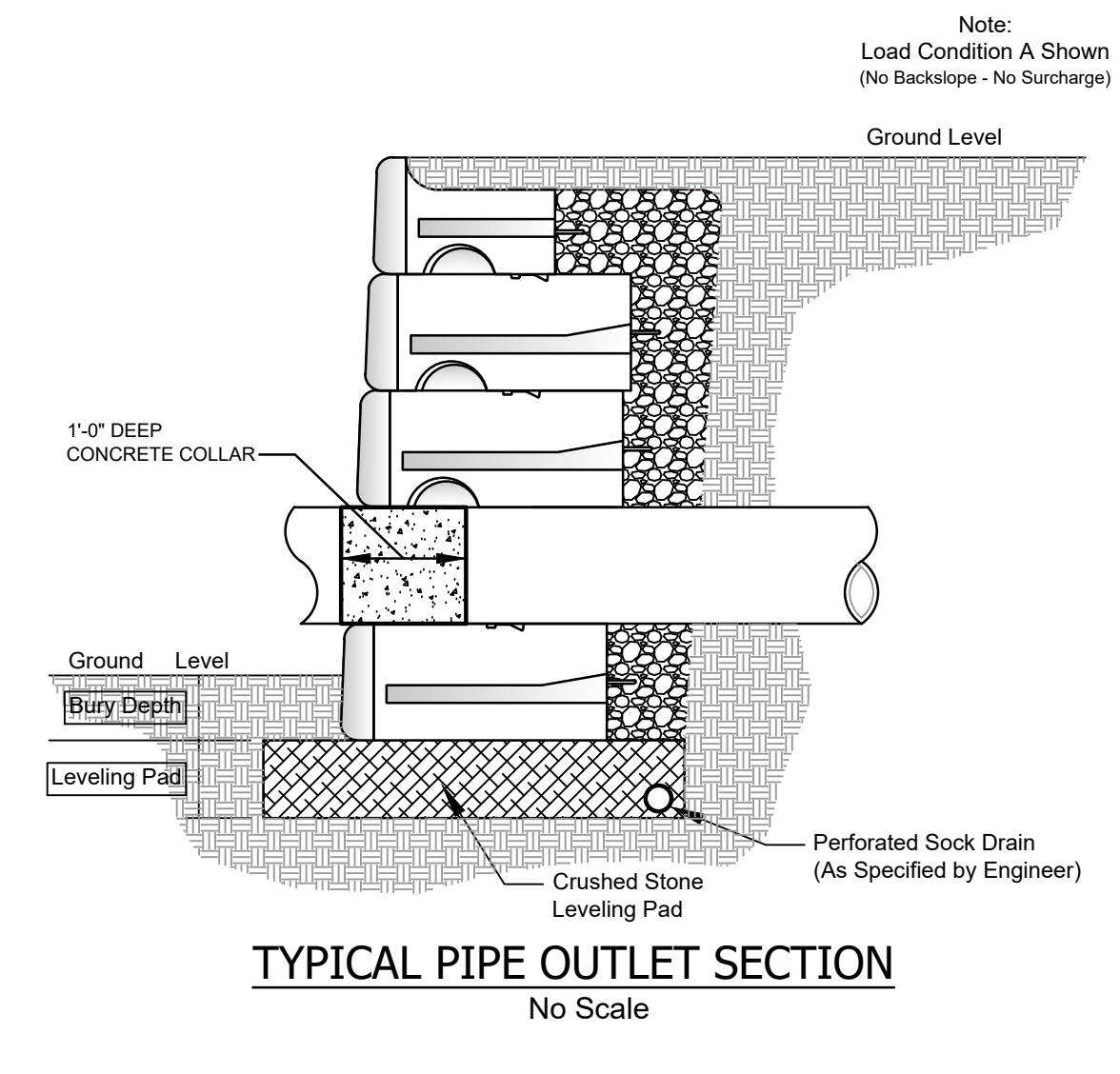
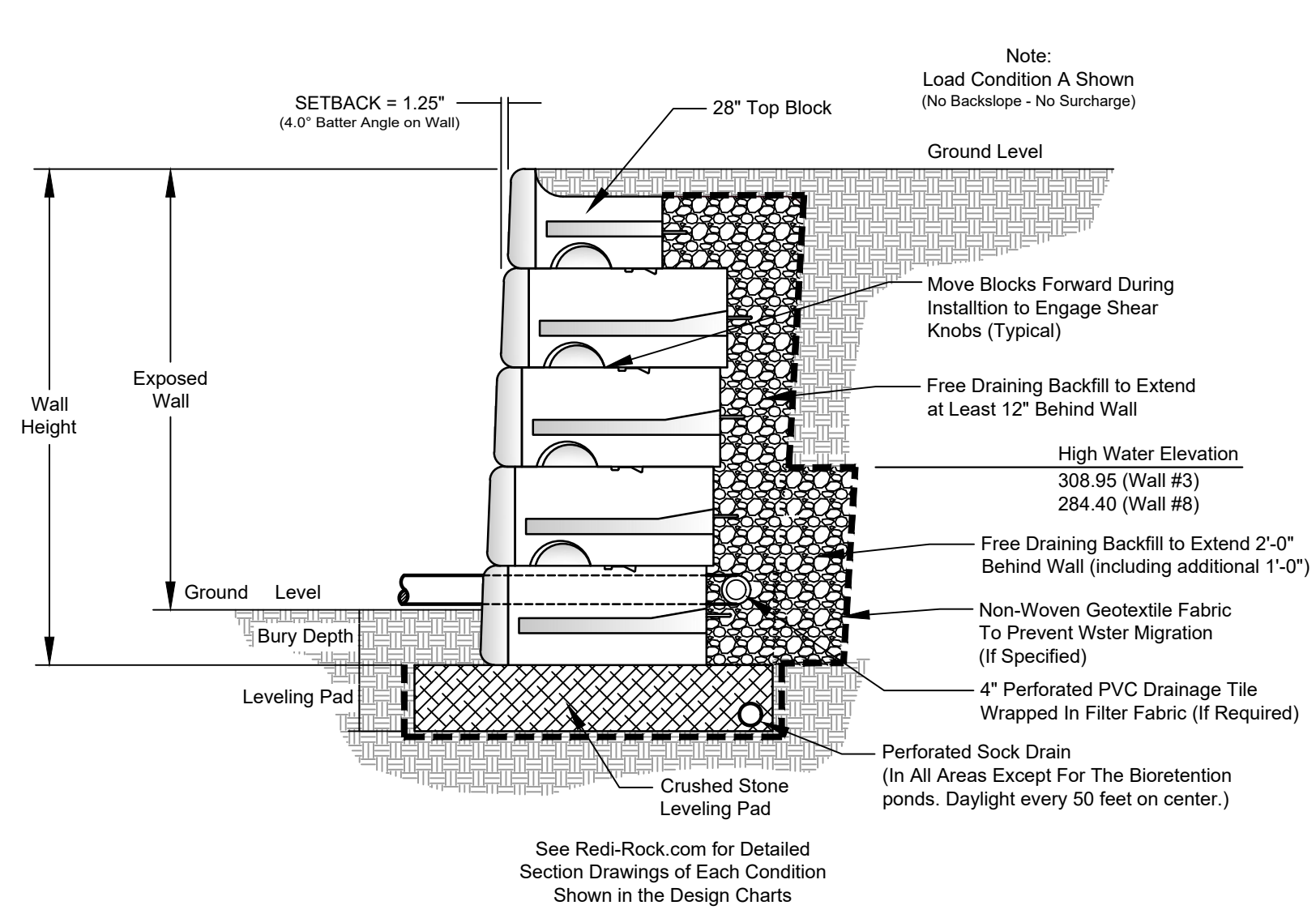
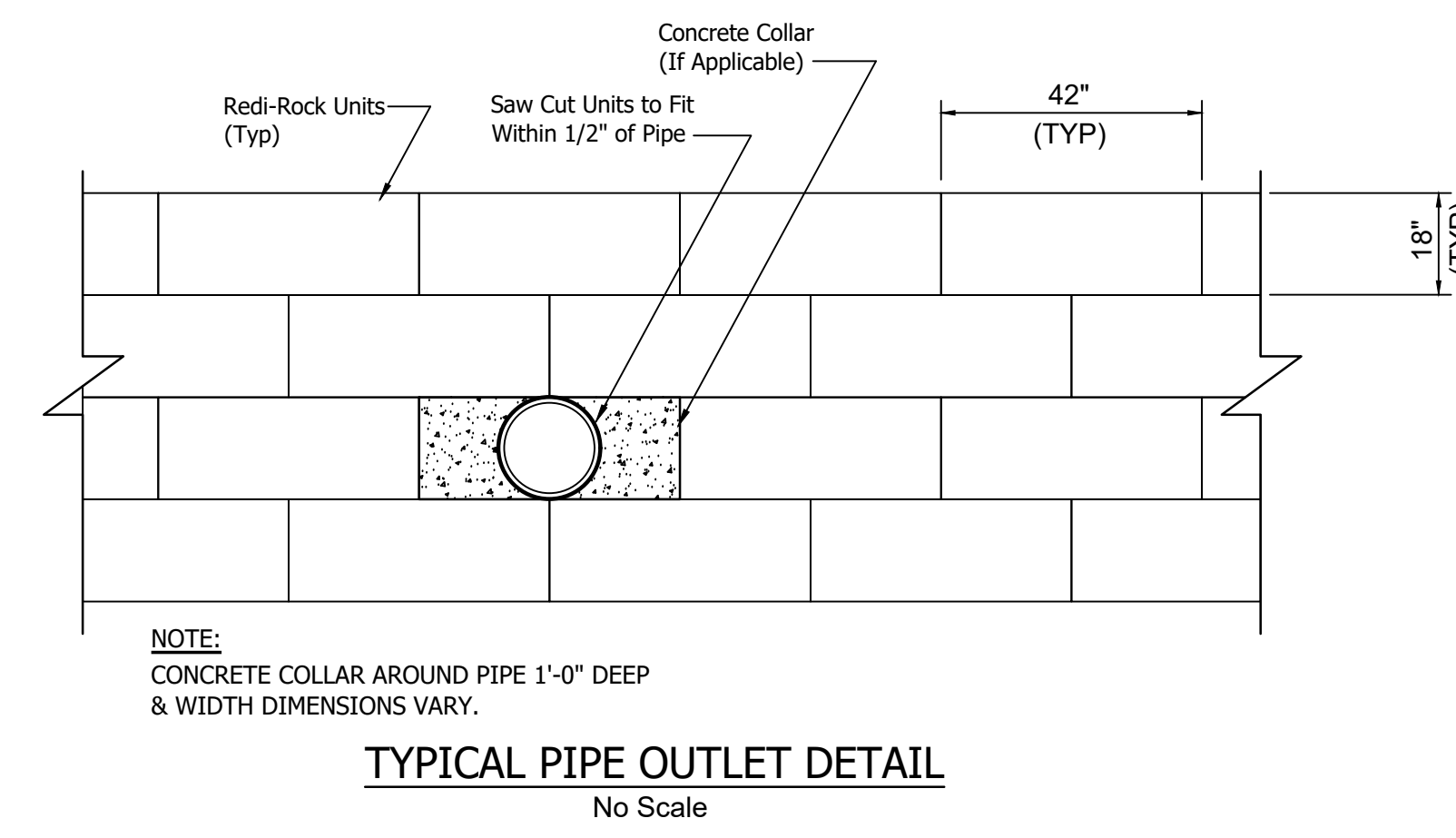
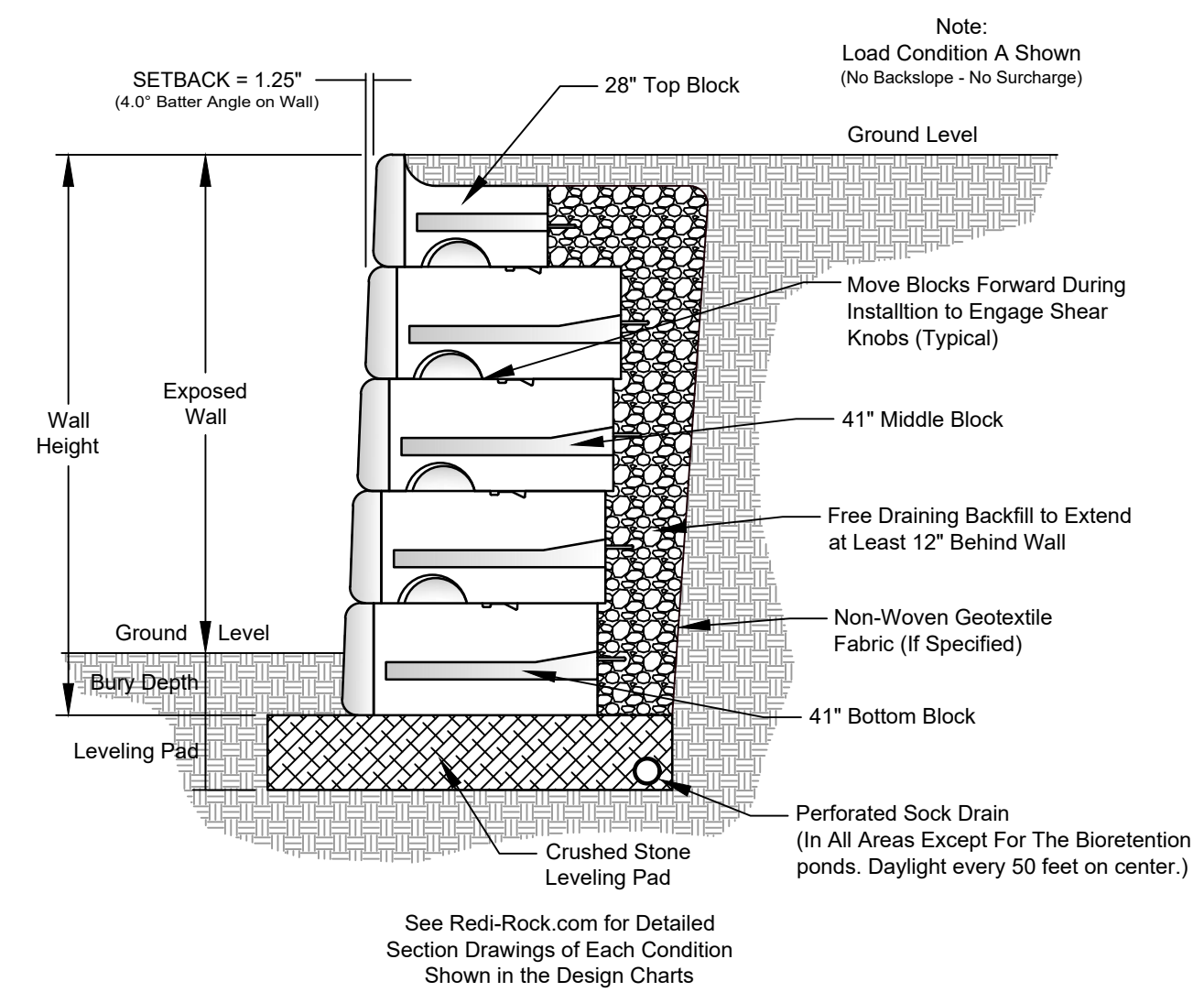
FREESTANDING CORNER BLOCKS

| | |
|---|--|
| <p>Garden Corner Volume = 8.26 cft Weight = ±1182 lbs</p>  | <p>Half Garden Corner Volume = 4.25 cft Weight = ±607 lbs</p>  |
| <p>Top Corner (Smooth or Textured) Volume = 10.44 cft Weight = ±1493 lbs</p>  | <p>Half Top Corner (Smooth or Textured) Volume = 5.18 cft Weight = ±741 lbs</p>  |
| <p>Middle Corner Volume = 10.73 cft Weight = ±1534 lbs</p>  | <p>Half Middle Corner Volume = 5.28 cft Weight = ±755 lbs</p>  |

NOTES:
Architectural faces on the blocks have varying texture. Volumes are based on the blocks as shown. Actual weights and volumes may vary. Weight shown is based on 143 pcf concrete.

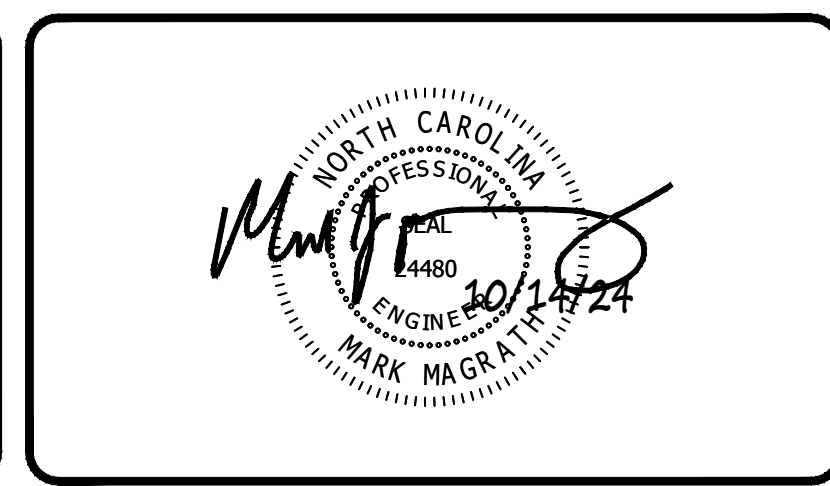
| | | |
|--|-------------------|--------------------------------------|
| DESIGNED BY: J. JOHNSON | DATE: 10/08/09 | Redi-Rock® International, LLC |
| DRAWING FILE: Steps and Corners for 41in Series 100809.dwg | SHEET NO.: 1 OF 1 | |

- #### GEOTECHNICAL GENERAL NOTE:
- 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.
 - A GLOBAL STABILITY ANALYSIS HAS NOT BEEN DONE FOR THIS PROJECT. WE RECOMMEND THAT A GLOBAL STABILITY ANALYSIS 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:
- 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-2C AS PROVIDED BY 4D SITE SOLUTIONS CIVIL ENGINEERING & LAND SURVEYING SEALED 09/17/24.
 - 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.

| NO. | DESCRIPTIONS | DATE |
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VE
Venture Engineering, P.A.
312 WEST MILLBROOK ROAD SUITE 237
RALEIGH, NC 27609
P: 919-676-0303 F: 919-676-0301
EMAIL ADDRESS: BMONDSCH@VENTURE-E.COM
LICENSE NO. C-2590

SERENITY SUBDIVISION
PHASE 3-5 - RETAINING WALLS
PINEY GROVE RAWLS ROAD
HARNETT COUNTY, NC

DETAIL SHEET - SHEET 3 OF 3
SERENITY SUBDIVISION - PHASE 3-5 - HARNETT COUNTY, NC

| | | | | | | | |
|------------------------|---|-----------------|-----------------|-------------|-----|-----------|-----|
| DATE: October 14, 2024 | <table border="1"> <tr> <td>SCALE:</td> <td>DRAWING NUMBER:</td> </tr> <tr> <td>HORIZONTAL:</td> <td>N/A</td> </tr> <tr> <td>VERTICAL:</td> <td>N/A</td> </tr> </table> | SCALE: | DRAWING NUMBER: | HORIZONTAL: | N/A | VERTICAL: | N/A |
| SCALE: | | DRAWING NUMBER: | | | | | |
| HORIZONTAL: | | N/A | | | | | |
| VERTICAL: | | N/A | | | | | |
| DES: TLH | | | | | | | |
| CHECKED: KLY | | | | | | | |
| APPROVED: MJM | | | | | | | |



09-17-24

REVISIONS
ISSUED FOR CONSTRUCTION

PROJECT NAME
SERENITY SUBDIVISION PH 3-5

DETAILED GRADING AND EROSION CONTROL PLAN

CLIENT
GREENFIELD COMMUNITIES

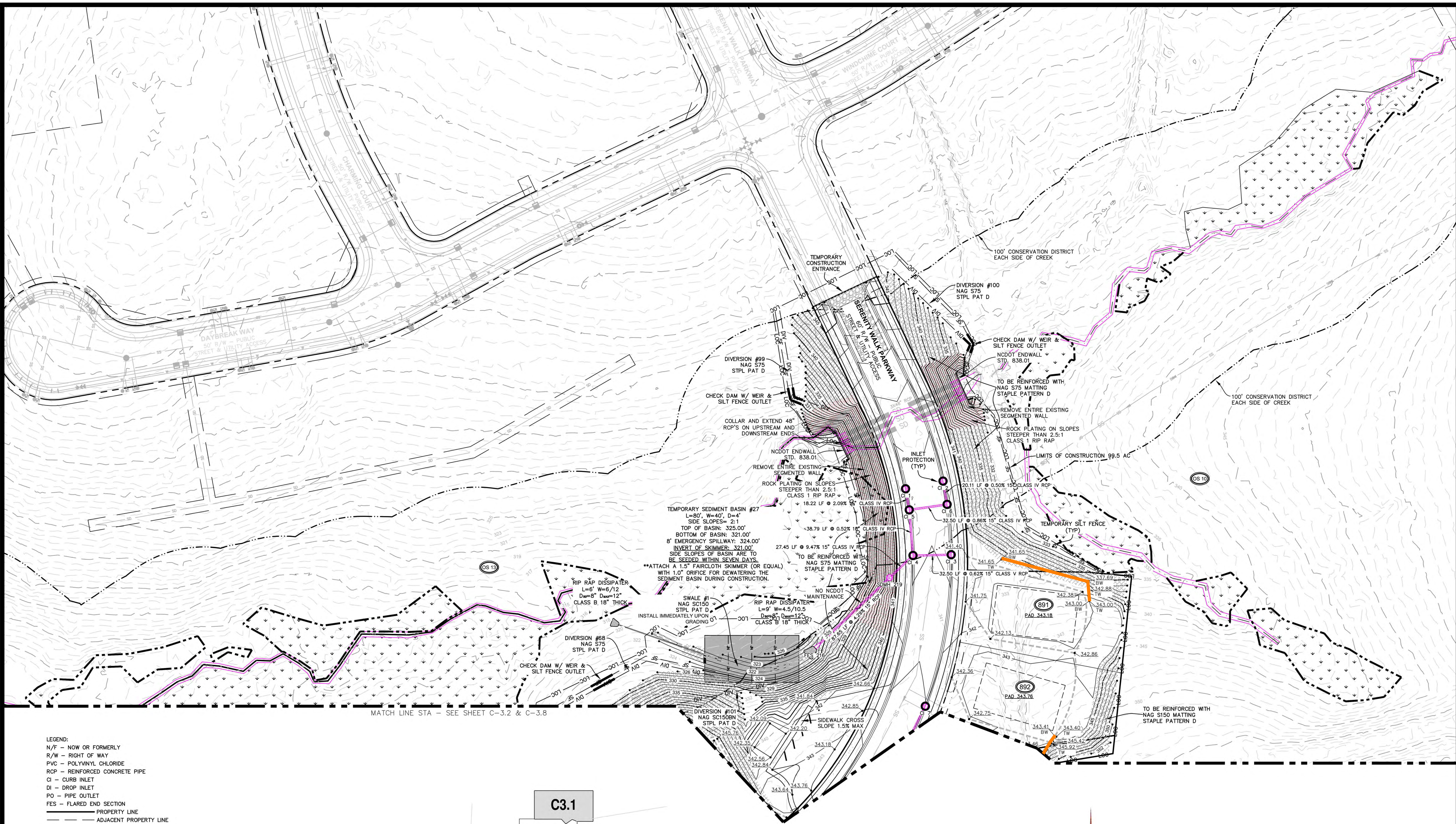
8601 Six Forks Road - Suite 270
 Raleigh, North Carolina 27615
 Phone: (919) 630-6641

PROJECT INFORMATION

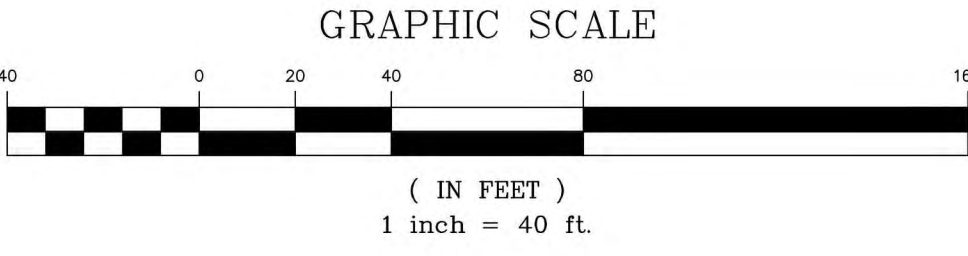
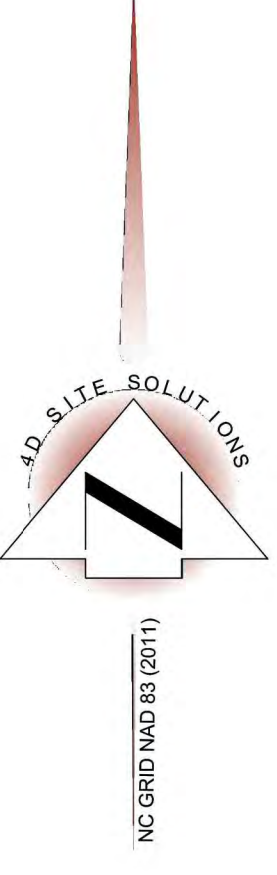
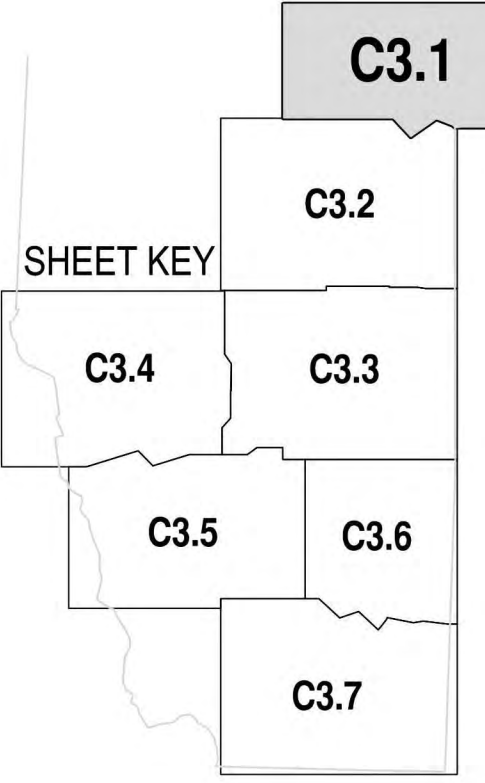
| | |
|-----------------|-------------|
| DESIGNED BY: | BRETT/CHRIS |
| DRAWN BY: | BRETT |
| CHECKED BY: | SCOTT |
| PROJECT NUMBER: | 1975 |

DRAWING SCALE
 HORIZONTAL: 1"=40'
 DATE RELEASED
 SEPTEMBER 17, 2024

SHEET NUMBER
C-3.1



- LEGEND:
- N/F - NOW OR FORMERLY
 - R/W - RIGHT OF WAY
 - PVC - POLYVINYL CHLORIDE
 - RCP - REINFORCED CONCRETE PIPE
 - CI - CURB INLET
 - DI - DROP INLET
 - PO - PIPE OUTLET
 - FES - FLARED END SECTION
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - RIGHT-OF-WAY
 - SETBACK LINE
 - SS - SANITARY SEWER LINE
 - W - WATER LINE
 - CREEK
 - WETLANDS
 - PERMANENT EASEMENT
 - 310 - MAJOR CONTOUR
 - 307 - MINOR CONTOUR
 - X 208.47' SPOT ELEVATION
 - ⊕ GAS VALVE
 - ⊕ CATCH BASIN
 - ⊕ DROP INLET
 - ⊕ SANITARY SEWER MANHOLE
 - ⊕ CLEANOUT
 - ⊕ RIP RAP
 - ⊕ CONCRETE
 - ⊕ WETLANDS
 - ⊕ TURF REINFORCEMENT MATTING
 - ACCESS/MAINTENANCE EASEMENT
 - PROPOSED EASEMENT
 - LIMITS OF CONSTRUCTION
 - SILT FENCE LINE
 - JUTE NETTING
 - ⊕ INLET PROTECTION

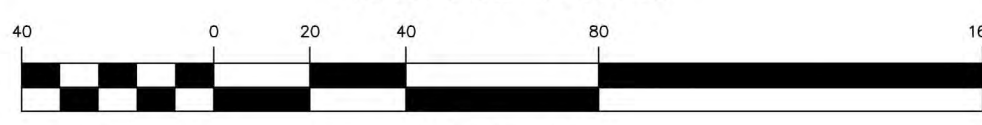


THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED



GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

Know what's below.
Call before you dig.

- LEGEND:
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 - TURF REINFORCEMENT MATTING
 - ACCESS/MAINTENANCE EASEMENT
 - PROPOSED EASEMENT
 - LOC - LIMITS OF CONSTRUCTION
 - SF - FENCE LINE
 - JN - JUTE NETTING
 - INLET PROTECTION



REVISIONS
ISSUED FOR CONSTRUCTION

PROJECT NAME
**SERENITY
SUBDIVISION
PH 3-5**

**DETAILED
GRADING AND
EROSION
CONTROL PLAN**

CLIENT
**GREENFIELD
COMMUNITIES**

8601 Six Forks Road - Suite 270
Raleigh, North Carolina 27615
Phone: (919) 630-6641

PROJECT INFORMATION

| | |
|-----------------|-------------|
| DESIGNED BY: | BRETT/CHRIS |
| DRAWN BY: | BRETT |
| CHECKED BY: | SCOTT |
| PROJECT NUMBER: | 1975 |

DRAWING SCALE
HORIZONTAL: 1"=40'

DATE RELEASED
SEPTEMBER 17, 2024

SHEET NUMBER
C-3.2



REVISIONS
 ISSUED FOR CONSTRUCTION

PROJECT NAME
**SERENITY
 SUBDIVISION
 PH 3-5**

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| PROJECT NUMBER: | 1975 |

DRAWING SCALE
 HORIZONTAL: 1"=40'

DATE RELEASED
 SEPTEMBER 17, 2024

SHEET NUMBER
C-3.3

1:\G:\1975_Serenity Subdivision\CHL 302\DWG\1975 DESSON_SSR.dwg - C3.3.DWG - 18:20:24 10/03/24 AM
 1:\G:\1975_Serenity Subdivision\CHL 302\DWG\1975 DESSON_SSR.dwg - C3.3.DWG - 18:20:24 10/03/24 AM

THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

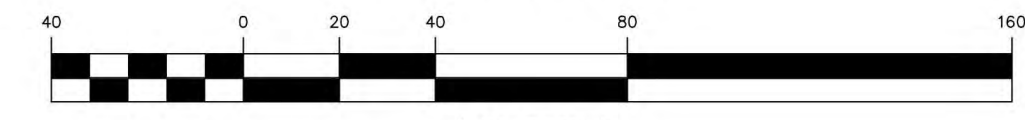
- LEGEND:
- N/F - NOW OR FORMERLY
 - R/W - RIGHT OF WAY
 - PVC - POLYVINYL CHLORIDE
 - RCPC - REINFORCED CONCRETE PIPE
 - CI - CURB INLET
 - DI - DROP INLET
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 - FES - FLARED END SECTION
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
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 - SETBACK LINE
 - SANITARY SEWER LINE
 - W - WATER LINE
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 - PERMANENT EASEMENT
 - 310 - MAJOR CONTOUR
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 - SPOT ELEVATION
 - GAS VALVE
 - CATCH BASIN
 - DROP INLET

- SANITARY SEWER MANHOLE
- CLEANOUT
- RIP RAP
- CONCRETE
- WETLANDS
- TURF REINFORCEMENT MATTING
- ACCESS/MAINTENANCE EASEMENT
- PROPOSED EASEMENT
- LIMITS OF CONSTRUCTION
- SILT FENCE LINE
- JUTE NETTING
- INLET PROTECTION

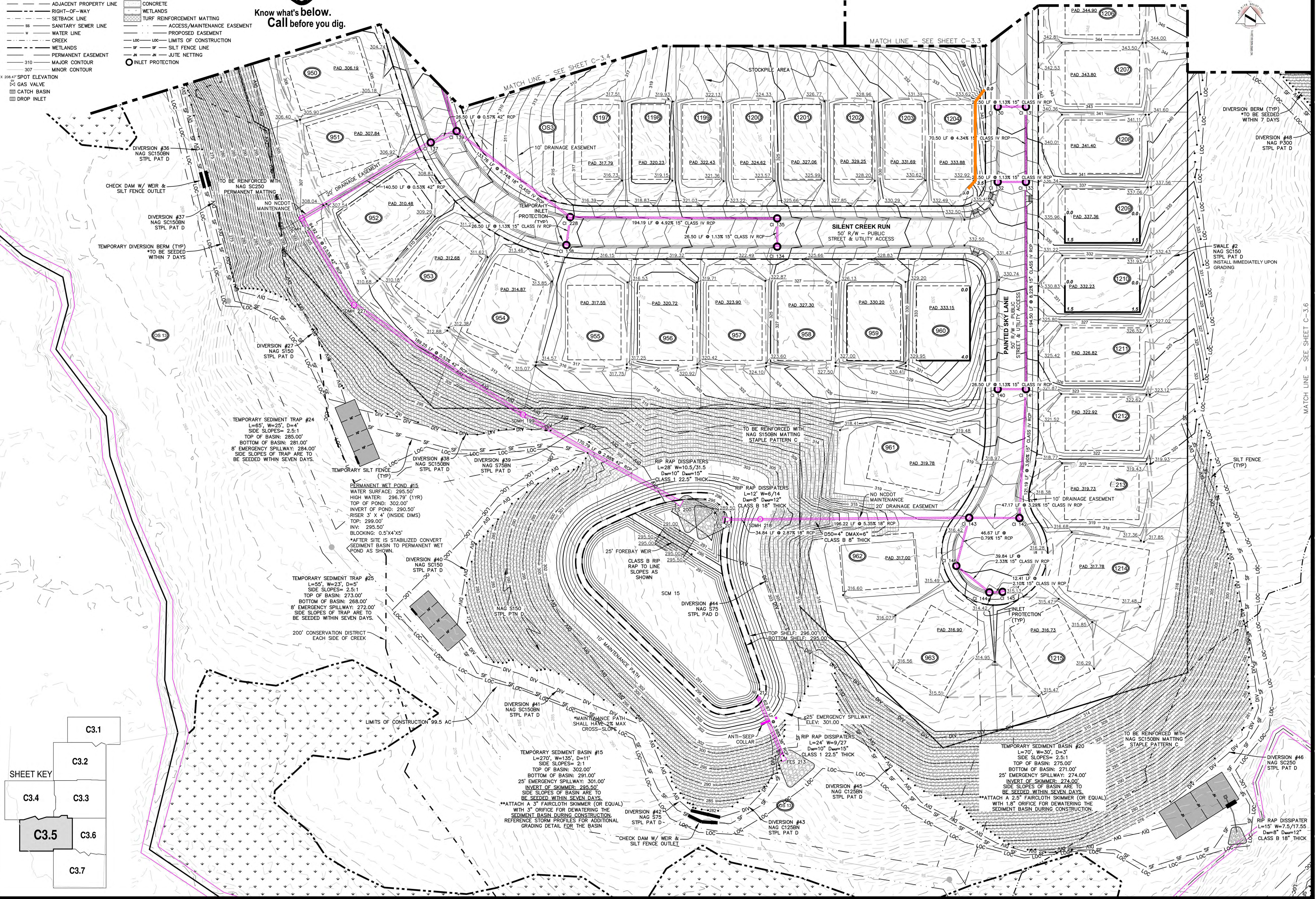


Know what's below.
Call before you dig.

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.



REVISIONS

ISSUED FOR CONSTRUCTION

PROJECT NAME

SERENITY SUBDIVISION PH 3-5

DETAILED GRADING AND EROSION CONTROL PLAN

CLIENT

GREENFIELD COMMUNITIES

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| CHECKED BY: | SCOTT |
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DRAWING SCALE

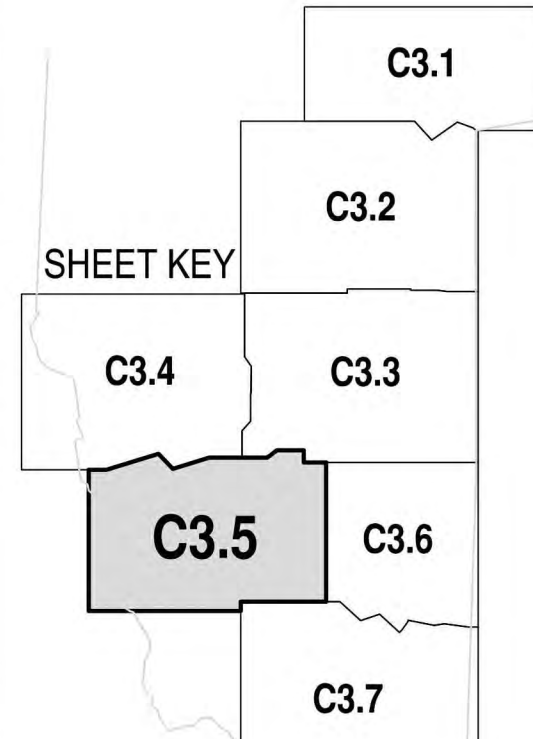
HORIZONTAL: 1"=40'

DATE RELEASED

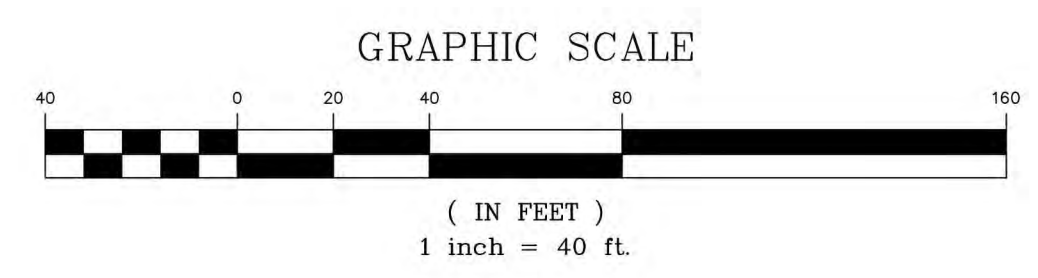
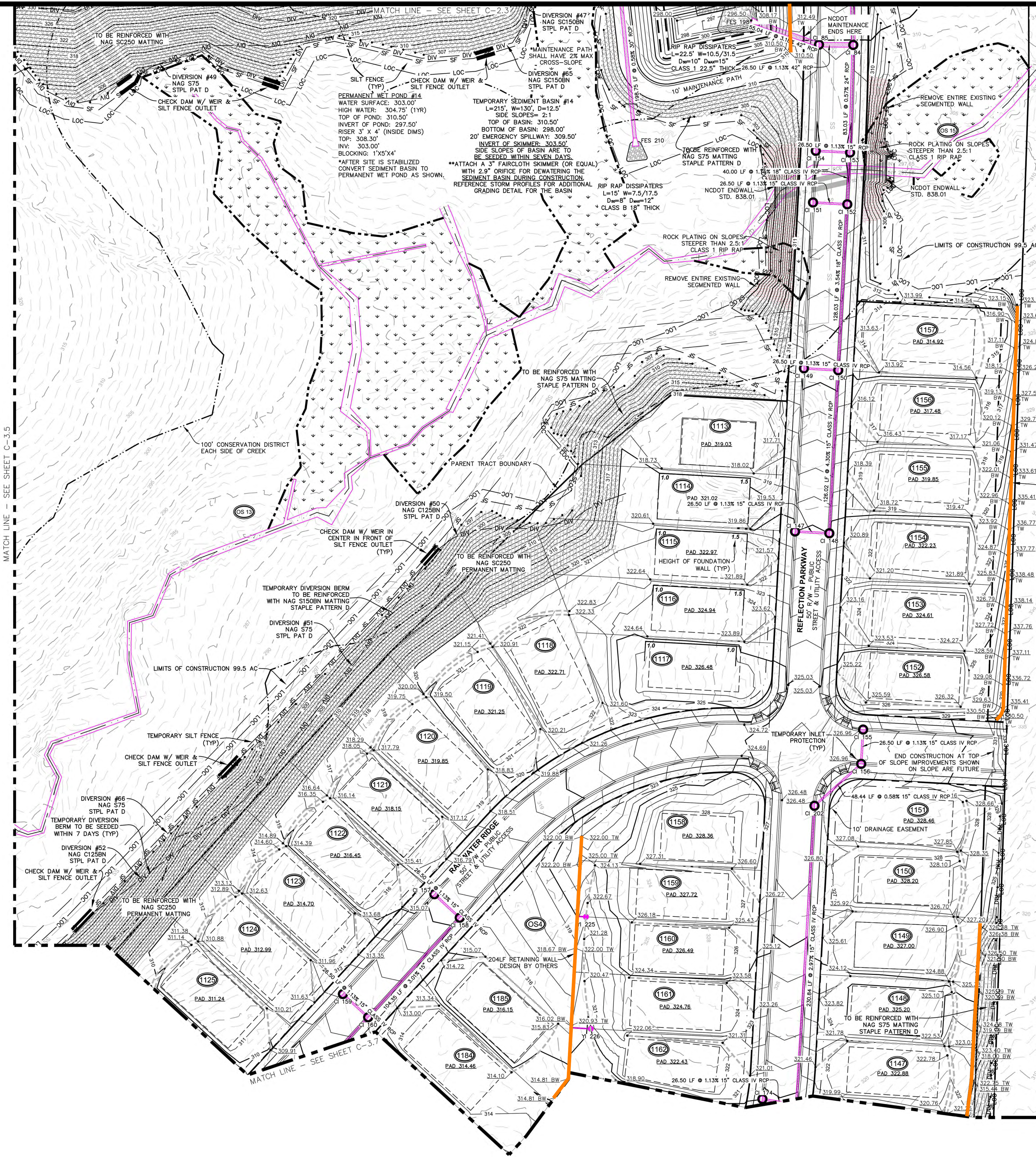
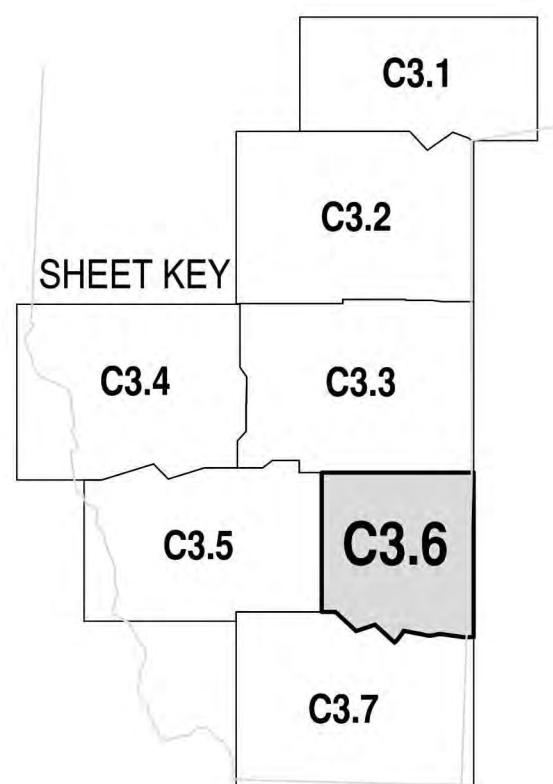
SEPTEMBER 17, 2024

SHEET NUMBER

C-3.5



- LEGEND:
- N/F - NOW OR FORMERLY
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THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED



REVISIONS
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PROJECT NAME
SERENITY SUBDIVISION PH 3-5

DETAILED GRADING AND EROSION CONTROL PLAN

CLIENT
GREENFIELD COMMUNITIES

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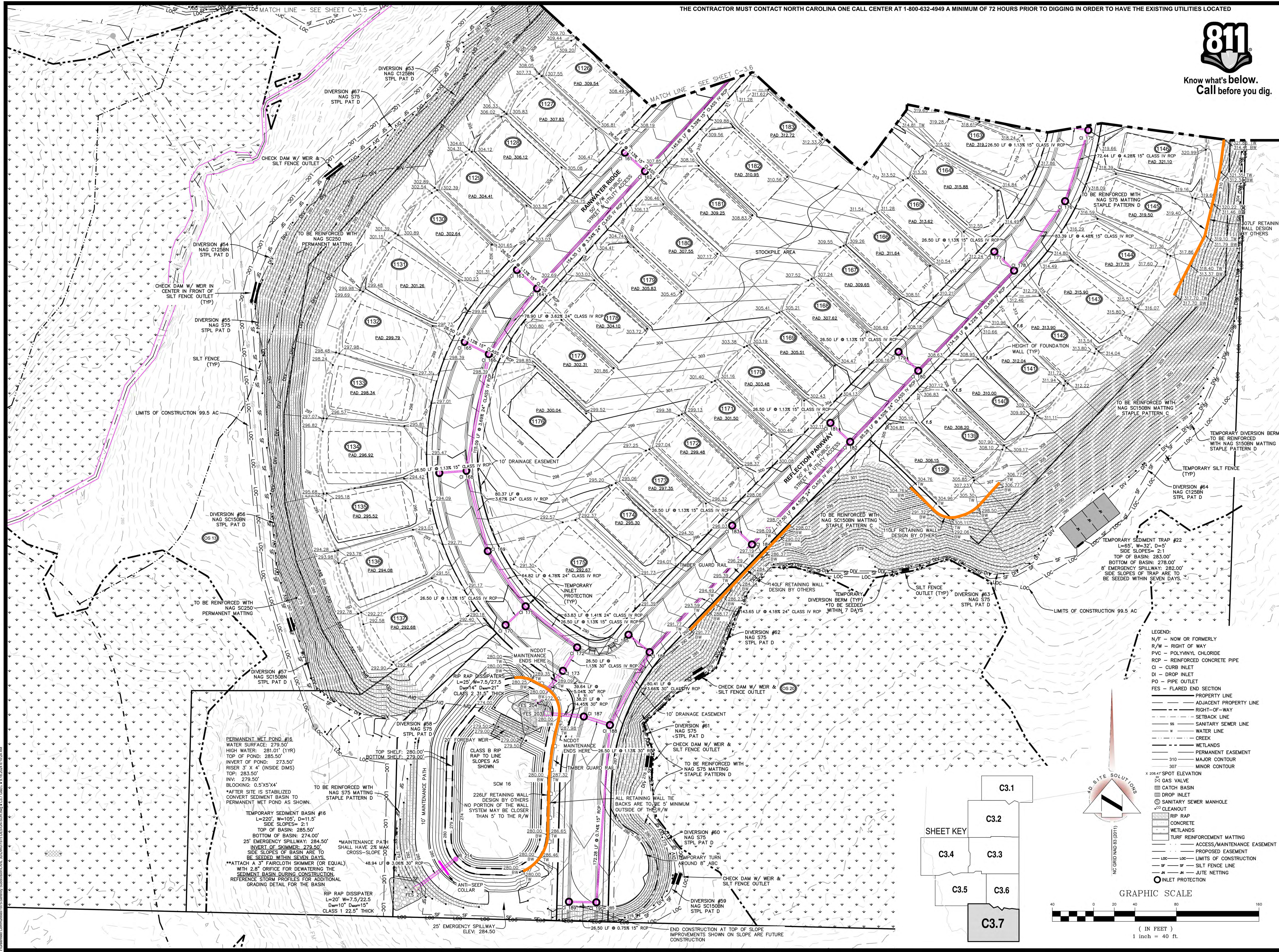
PROJECT INFORMATION

| | |
|-----------------|-------------|
| DESIGNED BY: | BRETT/CHRIS |
| DRAWN BY: | BRETT |
| CHECKED BY: | SCOTT |
| PROJECT NUMBER: | 1975 |

DRAWING SCALE
HORIZONTAL: 1"=40'

DATE RELEASED
SEPTEMBER 17, 2024

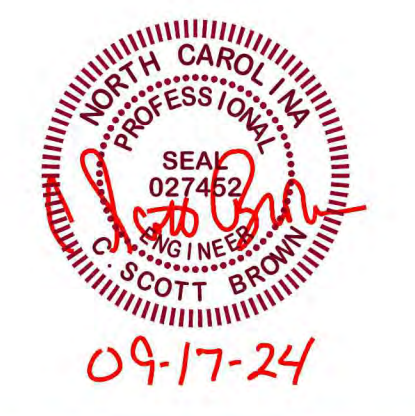
SHEET NUMBER
C-3.6



THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED



Know what's below.
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REVISIONS
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PROJECT NAME
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PH 3-5**

DETAILED
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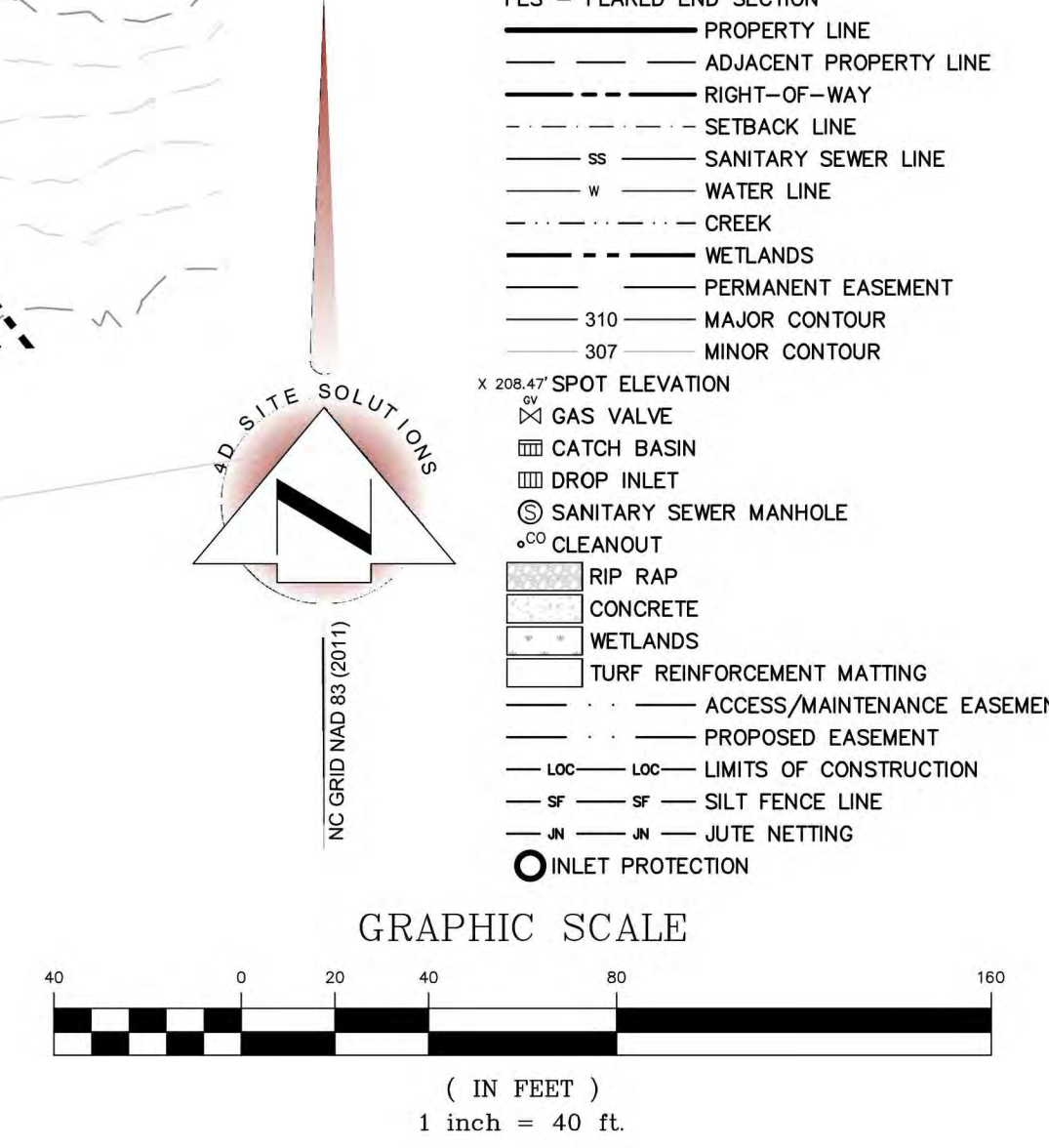
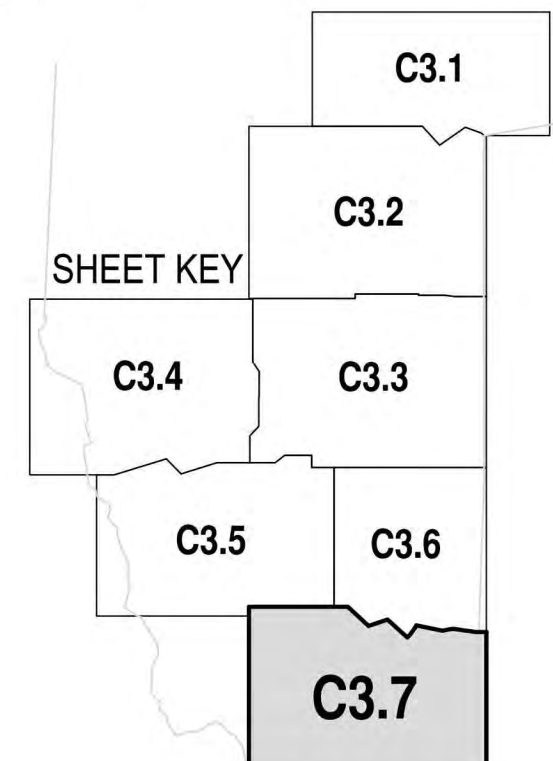
PROJECT INFORMATION

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| DESIGNED BY: | BRETT/CHRIS |
| DRAWN BY: | BRETT |
| CHECKED BY: | SCOTT |
| PROJECT NUMBER: | 1975 |

DRAWING SCALE
HORIZONTAL: 1"=40'

DATE RELEASED
SEPTEMBER 17, 2024

SHEET NUMBER
C-3.7



PERMANENT WET POND #16
WATER SURFACE: 279.50'
HIGH WATER: 281.01' (1YR)
TOP OF POND: 285.50'
INVERT OF POND: 273.50'
RISER 3' X 4' (INSIDE DIMS)
TOP: 283.50'
INV: 279.50'
BLOCKING: 0.5'X5'X4'
*AFTER SITE IS STABILIZED
CONVERT SEDIMENT BASIN TO
PERMANENT WET POND AS SHOWN.

TEMPORARY SEDIMENT BASIN #16
L=220', W=105', D=11.5'
SIDE SLOPES= 2:1
TOP OF BASIN: 285.50'
BOTTOM OF BASIN: 274.00'
25' EMERGENCY SPILLWAY: 284.50'
INVERT OF SKIMMER: 279.60'
SIDE SLOPES OF BASIN ARE TO
BE SEEDED WITHIN SEVEN DAYS.
**ATTACH A 3" FAIRCLOTH SKIMMER (OR EQUAL)
WITH 2.8" ORIFICE FOR DEWATERING THE
SEDIMENT BASIN DURING CONSTRUCTION.
REFERENCE STORM PIPES FOR ADDITIONAL
GRADING DETAIL FOR THE BASIN.

**CLASS B RIP RAP TO LINE
SLOPES AS SHOWN**

SCM 16

**226LF RETAINING WALL
DESIGN BY OTHERS**
NO PORTION OF THE WALL
SYSTEM MAY BE CLOSER
THAN 5' TO THE R/W

**CLASS B RIP RAP TO LINE
SLOPES AS SHOWN**

**CLASS 1 RIP RAP TO LINE
SLOPES AS SHOWN**

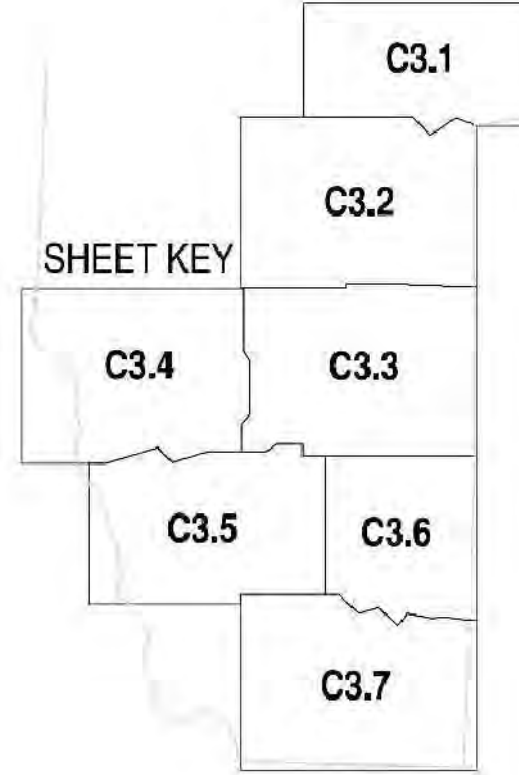
**CLASS 1 RIP RAP TO LINE
SLOPES AS SHOWN**

**CLASS 1 RIP RAP TO LINE
SLOPES AS SHOWN**

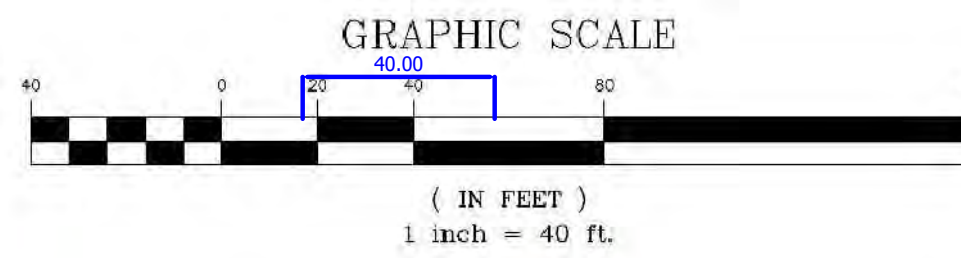
Greenfield Communities 1975 Serenity Subdivision, 30207021919 DESIGNSUBSETUP.dwg • C3.7 (SCALE) • 11/20/24 8:10:24 AM

THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

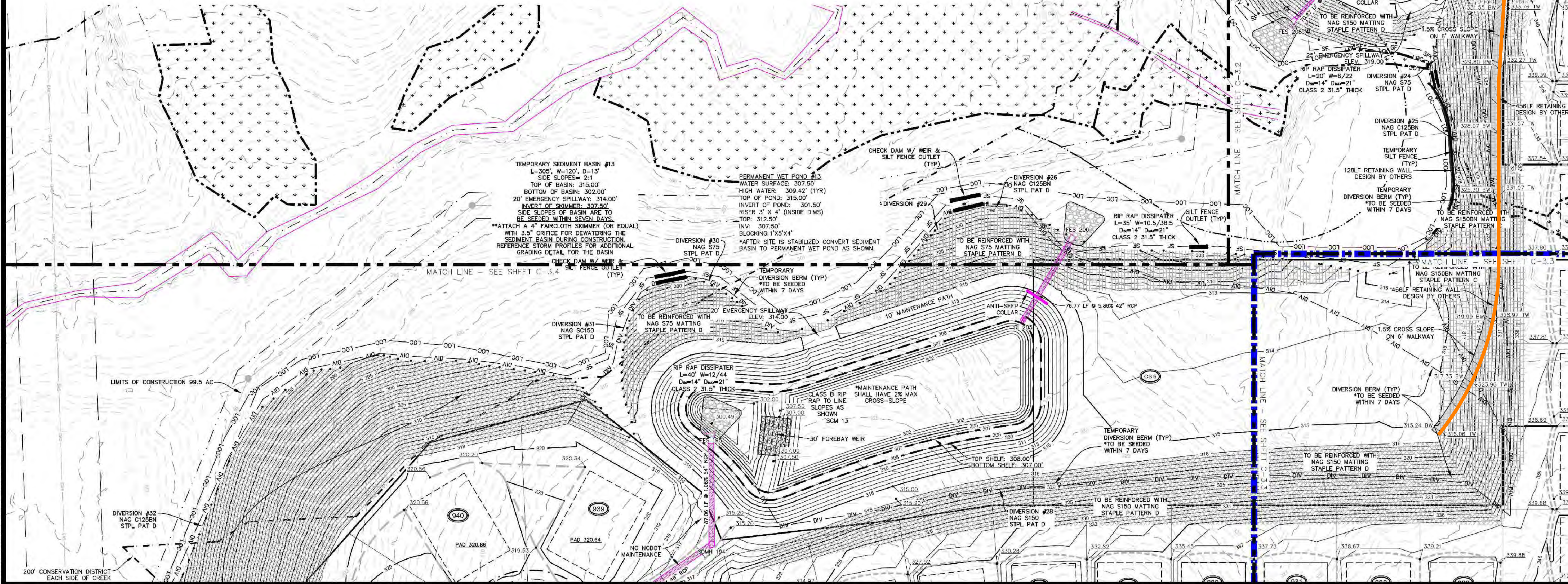
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Know what's below.
Call before you dig.



INSET FOR EXPANDED VIEW OF SHEET C3.2 & C3.4



REVISIONS
ISSUED FOR CONSTRUCTION

PROJECT NAME
SERENITY SUBDIVISION PH 3-5

DETAILED GRADING AND EROSION CONTROL PLAN

CLIENT
GREENFIELD COMMUNITIES

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PROJECT INFORMATION

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| DESIGNED BY: | BRETT/CHRIS |
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| CHECKED BY: | SCOTT |
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DRAWING SCALE
HORIZONTAL: 1"=40'

DATE RELEASED
SEPTEMBER 17, 2024

SHEET NUMBER
C-3.9