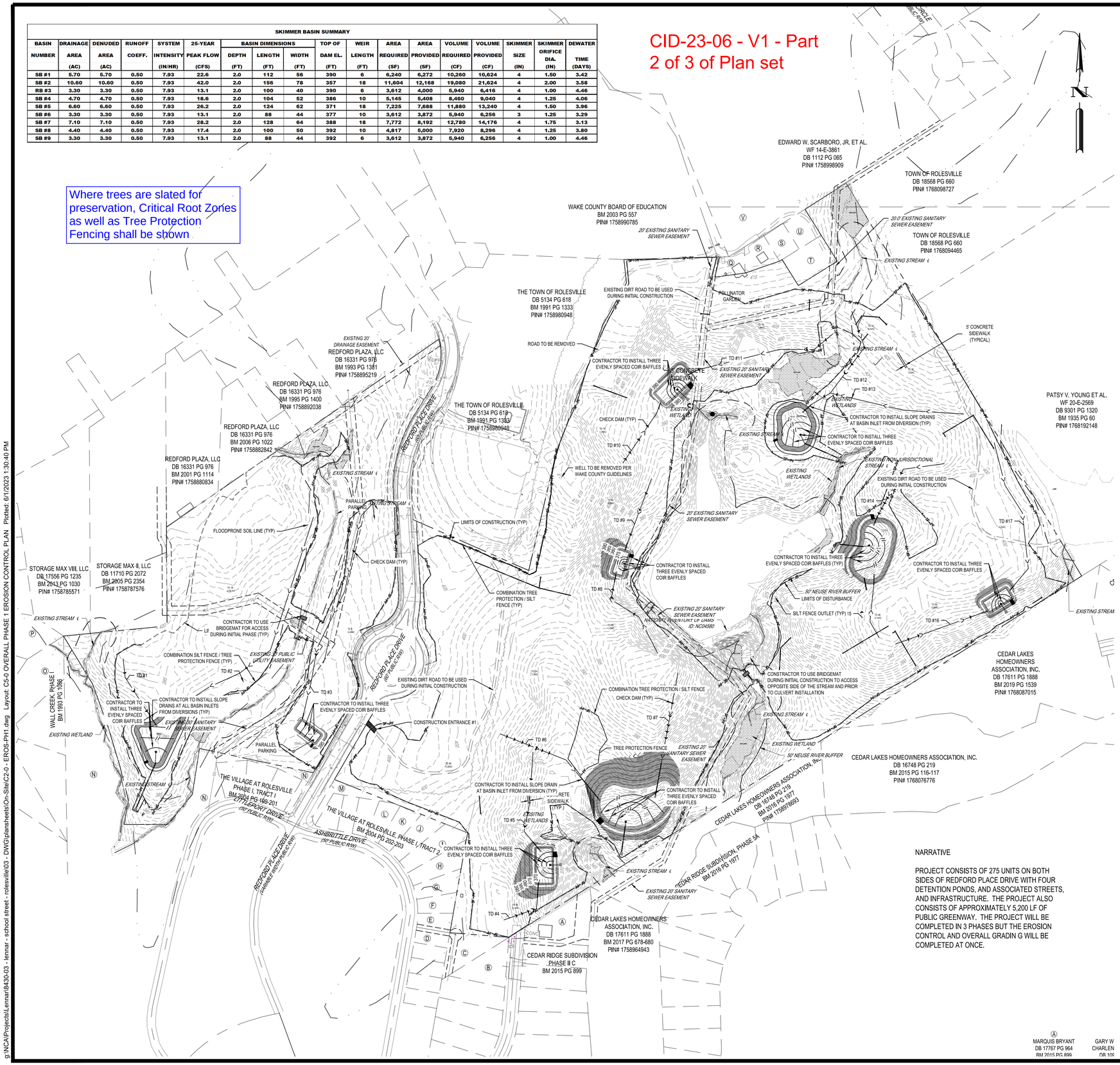
CID-23-06 - V1 - Part
2 of 3 of Plan set

**SKIMMER BASIN SUMMARY**

| BASIN NUMBER | DRAINAGE AREA (AC) | DENUDED AREA (AC) | RUNOFF COEFF. | SYSTEM INTENSITY (IN/HR) | 25-YEAR PEAK FLOW (CFS) | BASIN DIMENSIONS DEPTH (FT) | LENGTH (FT) | WIDTH (FT) | TOP OF DAM EL. (FT) | WEIR LENGTH (FT) | AREA REQUIRED (SF) | AREA PROVIDED (SF) | VOLUME REQUIRED (CF) | VOLUME PROVIDED (CF) | SKIMMER SIZE (IN) | SKIMMER ORIFICE DIA. (IN) | DEWATER TIME (DAYS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB #1 | 5.70 | 5.70 | 0.50 | 7.93 | 22.6 | 2.0 | 112 | 56 | 390 | 6 | 6,240 | 6,272 | 10,260 | 10,624 | 4 | 1.50 | 3.42 |
| SB #2 | 10.60 | 10.60 | 0.50 | 7.93 | 42.0 | 2.0 | 156 | 78 | 357 | 18 | 11,604 | 12,168 | 19,080 | 21,624 | 4 | 2.00 | 3.58 |
| RB #3 | 3.30 | 3.30 | 0.50 | 7.93 | 13.1 | 2.0 | 100 | 40 | 390 | 6 | 3,612 | 4,000 | 5,940 | 6,416 | 4 | 1.00 | 4.46 |
| SB #4 | 4.70 | 4.70 | 0.50 | 7.93 | 18.6 | 2.0 | 104 | 52 | 386 | 10 | 5,145 | 5,408 | 8,460 | 9,040 | 4 | 1.25 | 4.06 |
| SB #5 | 6.60 | 6.60 | 0.50 | 7.93 | 26.2 | 2.0 | 124 | 62 | 371 | 18 | 7,225 | 7,688 | 11,880 | 13,240 | 4 | 1.50 | 3.96 |
| SB #6 | 3.30 | 3.30 | 0.50 | 7.93 | 13.1 | 2.0 | 88 | 44 | 377 | 10 | 3,612 | 3,872 | 5,940 | 6,256 | 3 | 1.25 | 3.29 |
| SB #7 | 7.10 | 7.10 | 0.50 | 7.93 | 28.2 | 2.0 | 128 | 64 | 388 | 18 | 7,772 | 8,192 | 12,780 | 14,176 | 4 | 1.75 | 3.13 |
| SB #8 | 4.40 | 4.40 | 0.50 | 7.93 | 17.4 | 2.0 | 100 | 50 | 392 | 10 | 4,817 | 5,000 | 7,920 | 8,296 | 4 | 1.25 | 3.80 |
| SB #9 | 3.30 | 3.30 | 0.50 | 7.93 | 13.1 | 2.0 | 88 | 44 | 392 | 6 | 3,612 | 3,872 | 5,940 | 6,256 | 4 | 1.00 | 4.46 |

Where trees are slated for preservation, Critical Root Zones as well as Tree Protection Fencing shall be shown




## EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DA# ±X.X AC — DRAINAGE AREA LABEL
- SOIL — SOIL TYPE
- H:V X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX 100.XX — DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION EXIT
- EROSION CONTROL MATTING (NAG S150)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH (TD)
- SF — TEMP SILT FENCE WITH OUTLET
- TF — TEMP TREE PROTECTION FENCE
- SF-TF — TEMP SILT / TREE PROTECTION FENCE
- 600 4' — SILT FENCE OUTLET
- CHECK DAM
- BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- SKIMMER
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THEENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

NARRATIVE

PROJECT CONSISTS OF 275 UNITS ON BOTH SIDES OF REDFORD PLACE DRIVE WITH FOUR DETENTION PONDS, AND ASSOCIATED STREETS, AND INFRASTRUCTURE. THE PROJECT ALSO CONSISTS OF APPROXIMATELY 5,200 LF OF PUBLIC GREENWAY. THE PROJECT WILL BE COMPLETED IN 3 PHASES BUT THE EROSION CONTROL AND OVERALL GRADIN G WILL BE COMPLETED AT ONCE.

TOTAL DISTURBED AREA
±59.6 ACRES

0 75 150 300
SCALE: 1" = 150

811 Know what's below. Call before you dig.

| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF


BGE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGENC.COM
NC LICENSE #C-4397



LENNAR CORPORATION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

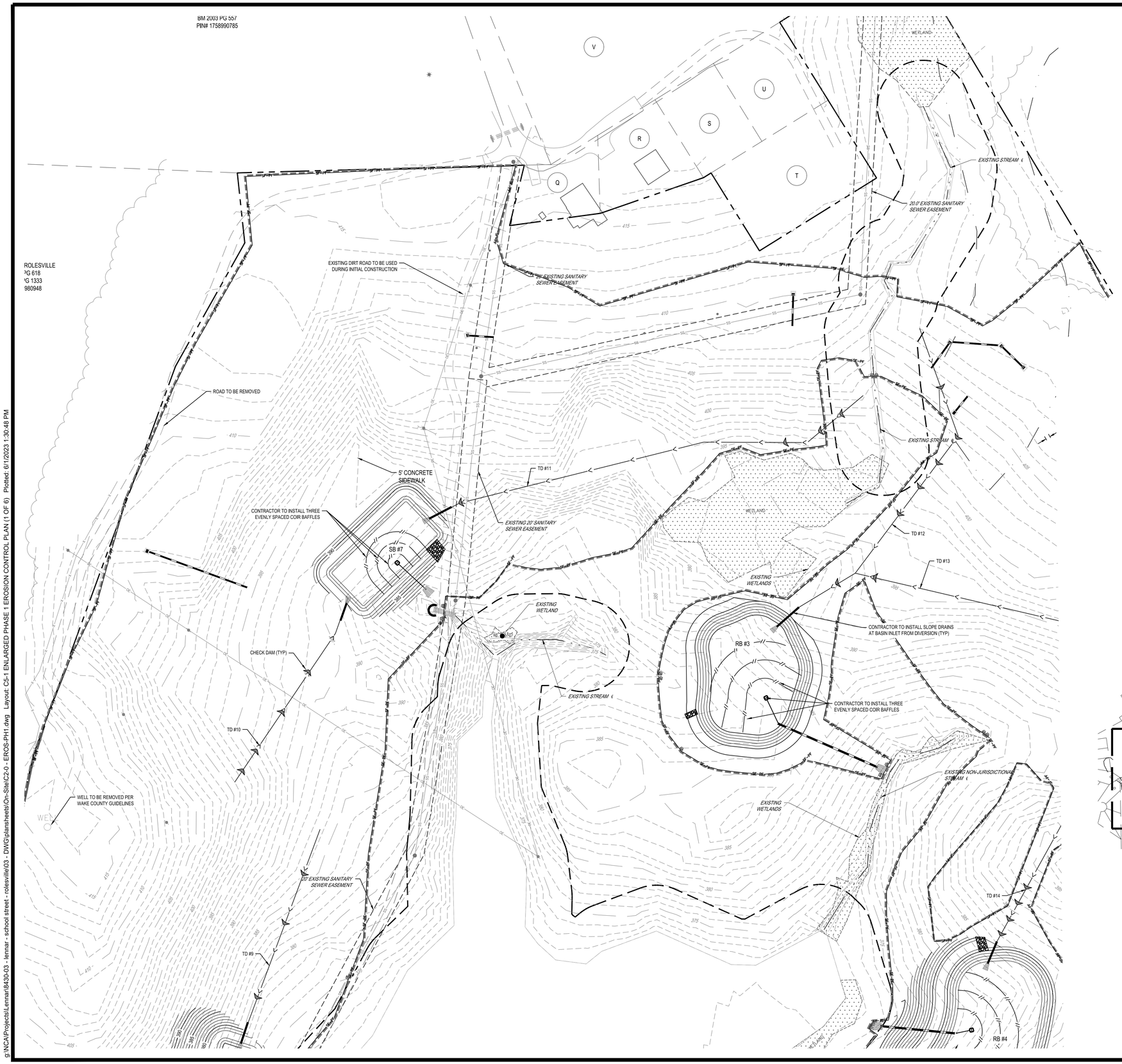
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# OVERALL PHASE 1 EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRI
NOT FOR CONSTRUCTION

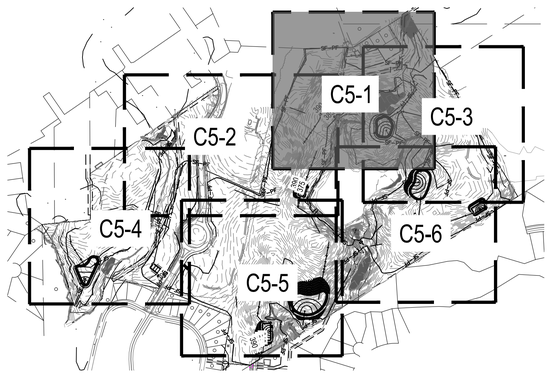
FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-0

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2-0 - EROS-PH1.dwg Layout: C5-0 OVERALL PHASE 1 EROSION CONTROL PLAN Plotted: 6/1/2023 1:30:40 PM




## EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DA# ±X.X AC — DRAINAGE AREA LABEL
- SOIL — SOIL TYPE
- H:V X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX 100.XX — DIRECTION OF OVERLAND FLOW
- RR — RIP RAP APRON
- CE — CONSTRUCTION EXIT
- LD — EROSION CONTROL MATTING (NAG S150BN)
- LoD — LIMITS OF DISTURBANCE
- JN — TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- DD# — TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMP SILT FENCE WITH OUTLET
- PF — TEMP TREE PROTECTION FENCE
- SP — SF-PF — TEMP SILT / TREE PROTECTION FENCE
- CF — TEMP CONSTRUCTION FENCE
- HZ — TEMPORARY HIGH HAZARD FENCE
- CD — CHECK DAM
- CD — SEDIMENTATION CHAMBER BERM
- C# — SLOPE DRAIN WITH RIP-RAP APRON
- BB# — TEMPORARY RISER SKIMMER SEDIMENT BASIN
- IPR — STONE FILTER RING
- IPS — SILT FENCE INLET SEDIMENT TRAP
- IPE — EXCAVATED INLET SEDIMENT TRAP
- IPB — BLOCK INLET SEDIMENT FILTER




0 25' 50' 100'
SCALE: 1" = 50'

811 Know what's below. Call before you dig.

| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BGE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGENC.COM
NC LICENSE #C-4397


LENNAR CORPORTAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
62 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 1 EROSION CONTROL PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — DEBRA M. FERM
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-1

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2-0 - EROS-PH1.dwg Layout: C5-1 ENLARGED PHASE 1 EROSION CONTROL PLAN (1 OF 6) Plotted: 6/12/2023 1:30:48 PM


| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BGE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGEINC.COM
NC LICENSE #C-4397



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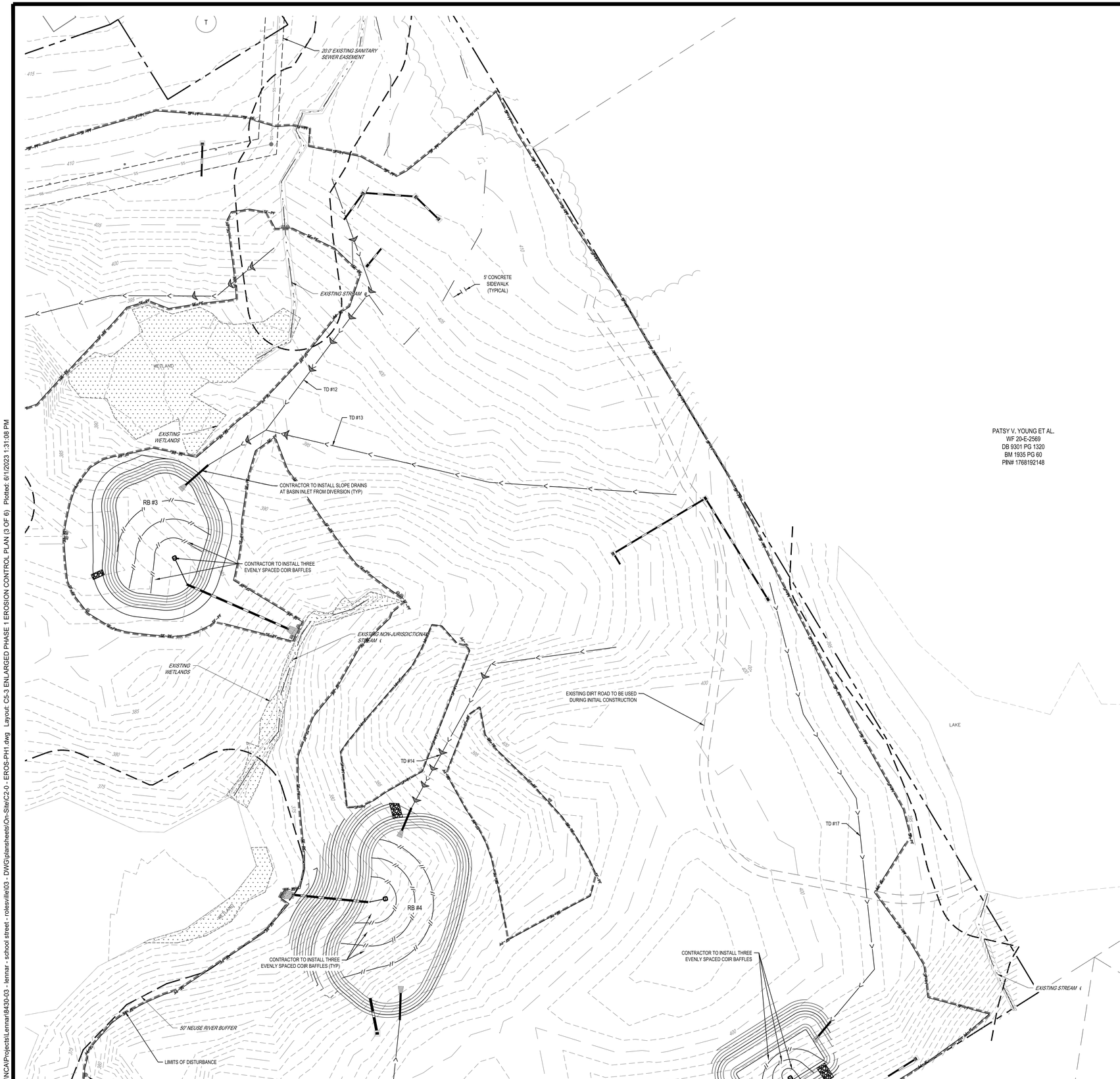
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
62 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6)

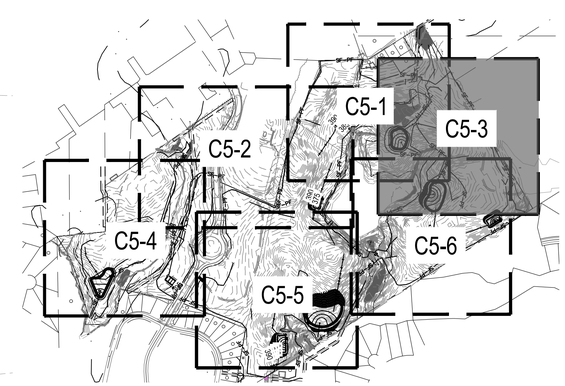
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERN
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-2




## EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DRAINAGE AREA
- DA# / ±X.X AC — DRAINAGE AREA LABEL
- SOIL — SOIL TYPE
- H:V / X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX / 100.XX — DIRECTION OF OVERLAND FLOW
- (RR) RIP RAP APRON
- (CE) CONSTRUCTION EXIT
- (LD) EROSION CONTROL MATTING (NAG S150BN)
- (LoD) LIMITS OF DISTURBANCE
- (JN) TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- (DDB) TEMPORARY DIVERSION DITCH OR BERM
- (SF) TEMP SILT FENCE WITH OUTLET
- (PF) TEMP TREE PROTECTION FENCE
- (SP) TEMP SILT / TREE PROTECTION FENCE
- (CF) TEMP CONSTRUCTION FENCE
- (HZ) TEMPORARY HIGH HAZARD FENCE
- (CD) CHECK DAM
- (CD) SEDIMENTATION CHAMBER BERM
- (C#) SLOPE DRAIN WITH RIP-RAP APRON
- (BB#) TEMPORARY RISER SKIMMER SEDIMENT BASIN
- (IPR) STONE FILTER RING
- (IPS) SILT FENCE INLET SEDIMENT TRAP
- (IPE) EXCAVATED INLET SEDIMENT TRAP
- (IPB) BLOCK INLET SEDIMENT FILTER




0 25' 50' 100'
SCALE: 1" = 50'

811 Know what's below. Call before you dig.

| REV | | | | | | |
|---|---|---|---|---|---|---|
| 1 | | | | | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | | | | | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BGE
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RALEIGH NC 27607
WWW.BGEINC.COM
NC LICENSE #C-4397


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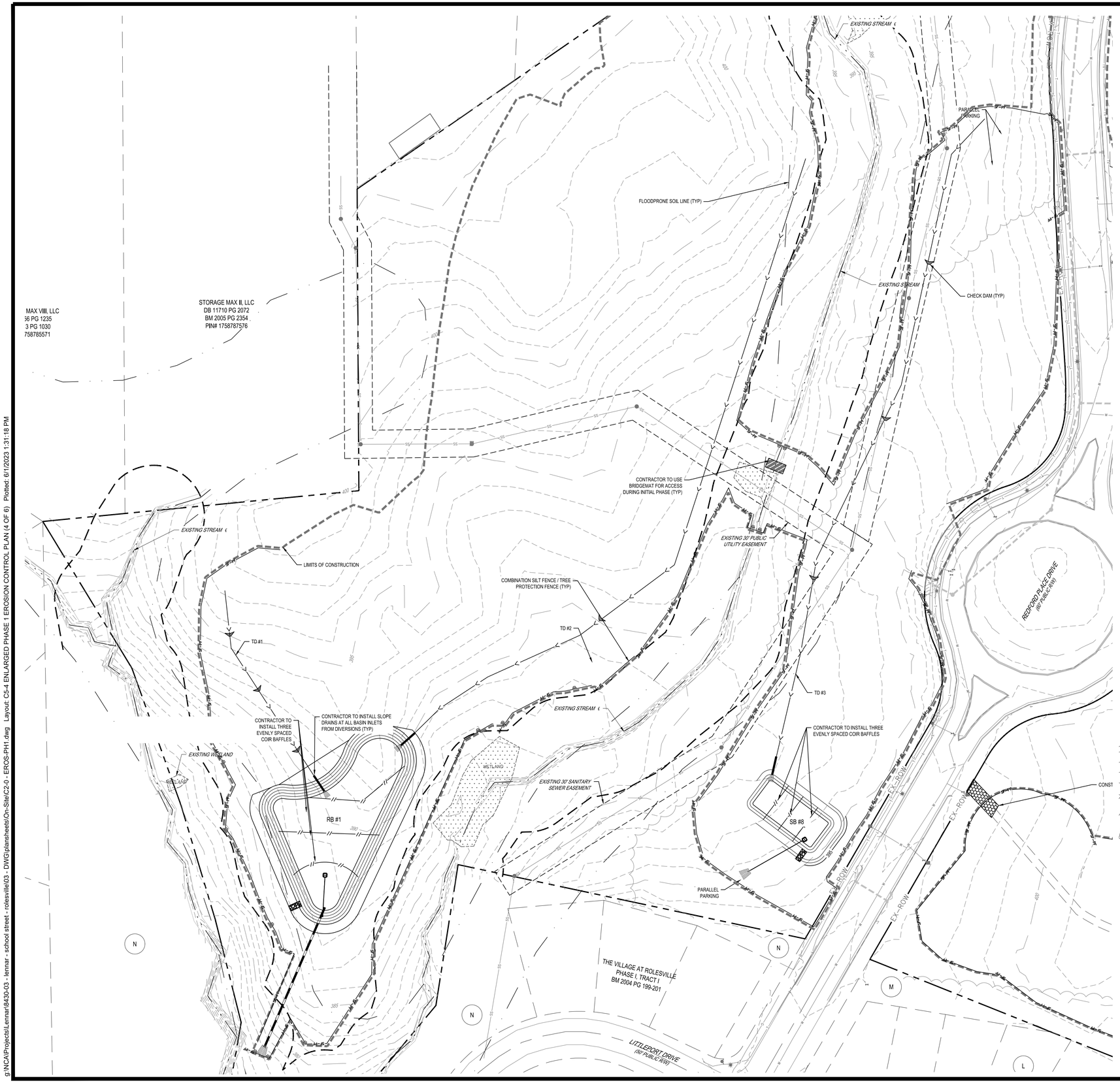
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED SITE PLAN (3 OF 7)

NORTH CAROLINA PROFESSIONAL ENGINEER DEBRA M. FERN
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-3




## EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DA# / ±X.X AC — DRAINAGE AREA LABEL
- SOIL — SOIL TYPE
- H.V. / X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX / 100.XX — DIRECTION OF OVERLAND FLOW
- RR — RIP RAP APRON
- CE — CONSTRUCTION EXIT
- LD — EROSION CONTROL MATTING (NAG S150BN)
- LoD — LIMITS OF DISTURBANCE
- JN — TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
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- SP — TEMP SILT / TREE PROTECTION FENCE
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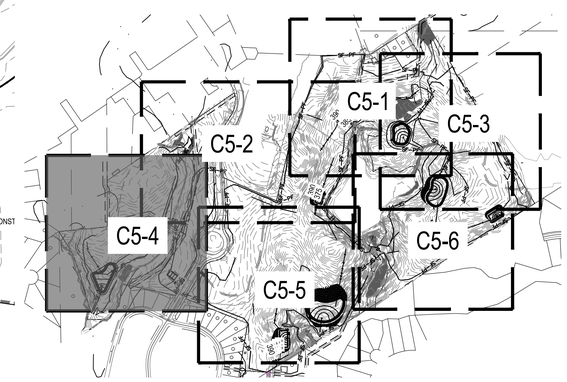
- CD — SEDIMENTATION CHAMBER BERM
- C# — SLOPE DRAIN WITH RIP-RAP APRON
- BB# — TEMPORARY RISER SKIMMER SEDIMENT BASIN
- IPR — STONE FILTER RING
- IPS — SILT FENCE INLET SEDIMENT TRAP
- IPE — EXCAVATED INLET SEDIMENT TRAP
- IPB — BLOCK INLET SEDIMENT FILTER




0 25' 50' 100'
SCALE: 1" = 50'

811 Know what's below. Call before you dig.

| REV | | | | | |
|---|---|---|---|---|---|
| 04/03/2023 | INITIAL SUBMITTAL | | | | |
| 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT | | | | |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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NC LICENSE #C-4397


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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 1 EROSION CONTROL PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERM
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-4

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2.0 - EROS-PH1.dwg Layout: C5-4 ENLARGED PHASE 1 EROSION CONTROL PLAN (4 OF 6) Plotted: 6/12/2023 1:31:18 PM


## EROSION CONTROL LEGEND

| | |
|---|---|
| | PROPERTY LINE |
| 600 | EXISTING MAJOR CONTOUR |
| 601 | EXISTING MINOR CONTOUR |
| 600 | PROPOSED MAJOR CONTOUR |
| 601 | PROPOSED MINOR CONTOUR |
| | DRAINAGE AREA |
| DA# ±X.X AC | DRAINAGE AREA LABEL |
| SOIL | SOIL TYPE |
| H:V X.X% | DIRECTION OF OVERLAND FLOW |
| 100.XX 100.XX | DIRECTION OF OVERLAND FLOW |
| RR | RIP RAP APRON |
| CE | CONSTRUCTION EXIT |
| LD | EROSION CONTROL MATTING (NAG S150BN) |
| LoD | LIMITS OF DISTURBANCE |
| JN | TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER) |
| DDB | TEMPORARY DIVERSION DITCH OR BERM |
| SF | TEMP SILT FENCE WITH OUTLET |
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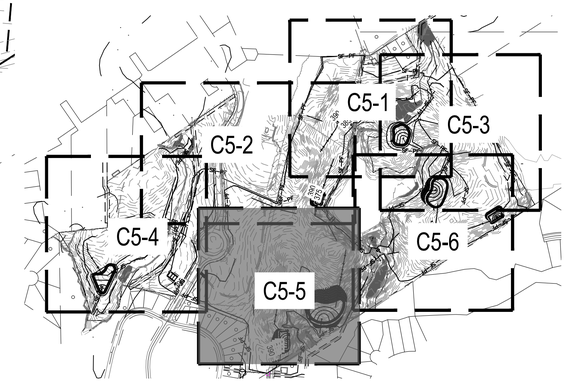
| CF | TEMP CONSTRUCTION FENCE |
| HZ | TEMPORARY HIGH HAZARD FENCE |
| CD | CHECK DAM |
| CD | SEDIMENTATION CHAMBER BERM |
| C# | SLOPE DRAIN WITH RIP-RAP APRON |
| BB# | TEMPORARY RISER SKIMMER SEDIMENT BASIN |
| IPR | STONE FILTER RING |
| IPS | SILT FENCE INLET SEDIMENT TRAP |
| IPE | EXCAVATED INLET SEDIMENT TRAP |
| IPB | BLOCK INLET SEDIMENT FILTER |




0 25' 50' 100'
SCALE: 1" = 50'

811 Know what's below. Call before you dig.

| REV | DATE | |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BGE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGENC.COM
NC LICENSE #C-4397


LENNAR CORPORATION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

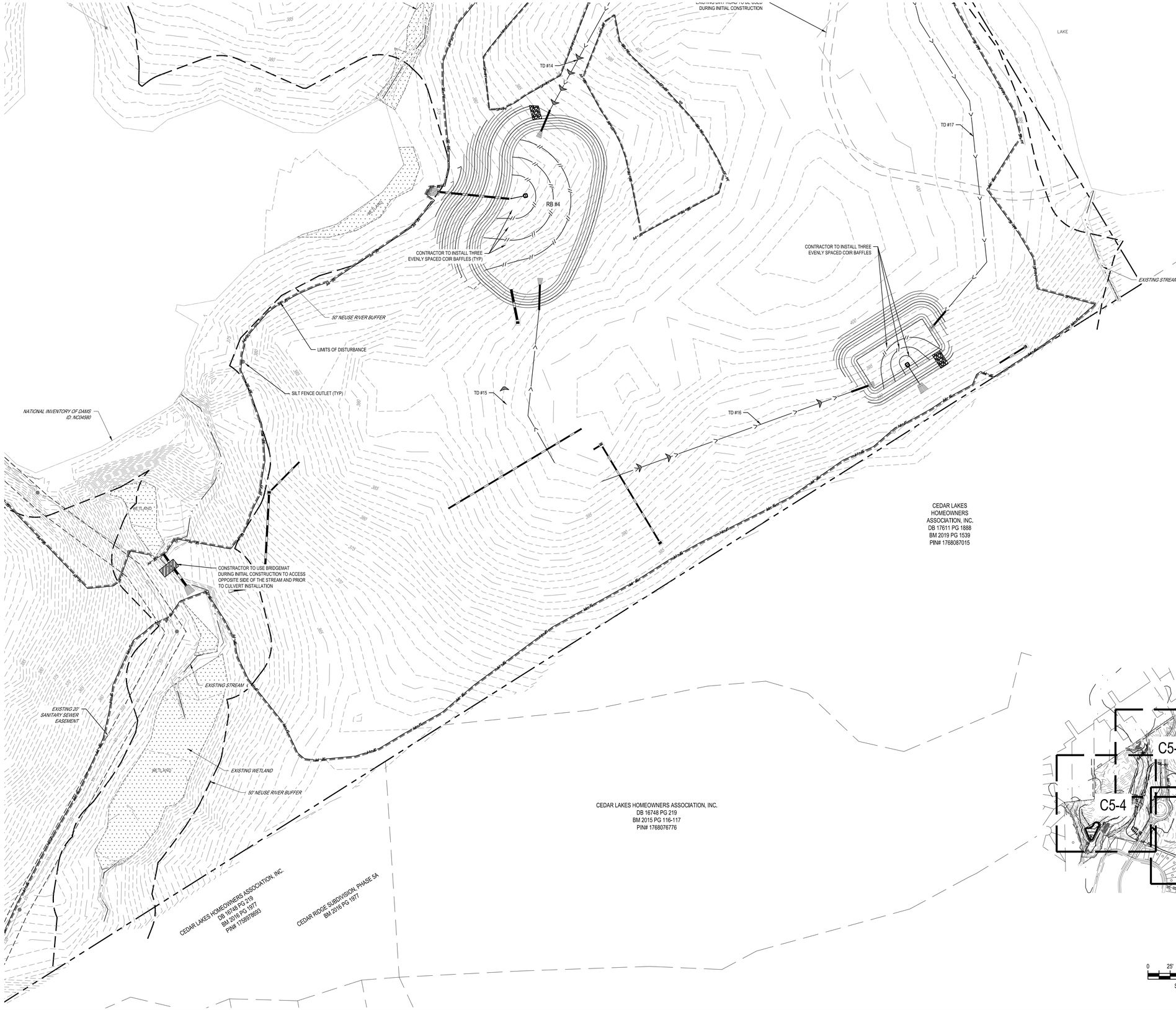
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 1 EROSION CONTROL PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
DEBRA M. FERRIS
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-5

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2.0 - EROS-PH1.dwg Layout: C5-5 ENLARGED PHASE 1 EROSION CONTROL PLAN (5 OF 6) Plotted: 6/12/2023 1:31:28 PM




N

## EROSION CONTROL LEGEND

| | |
|---|---|
| | PROPERTY LINE |
| 600 | EXISTING MAJOR CONTOUR |
| 601 | EXISTING MINOR CONTOUR |
| 600 | PROPOSED MAJOR CONTOUR |
| 601 | PROPOSED MINOR CONTOUR |
| | DRAINAGE AREA |
| DA# ±X.X AC | DRAINAGE AREA LABEL |
| SOIL | SOIL TYPE |
| H.V. X.X% | DIRECTION OF OVERLAND FLOW |
| 100.XX 100.XX | DIRECTION OF OVERLAND FLOW |
| RR | RIP RAP APRON |
| CE | CONSTRUCTION EXIT |
| LD | EROSION CONTROL MATTING (NAG S150BN) |
| LoD | LIMITS OF DISTURBANCE |
| JN | TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER) |
| DD# | TEMPORARY DIVERSION DITCH OR BERM |
| SF | TEMP SILT FENCE WITH OUTLET |
| PF | TEMP TREE PROTECTION FENCE |
| SP | TEMP SILT / TREE PROTECTION FENCE |
| CF | TEMP CONSTRUCTION FENCE |
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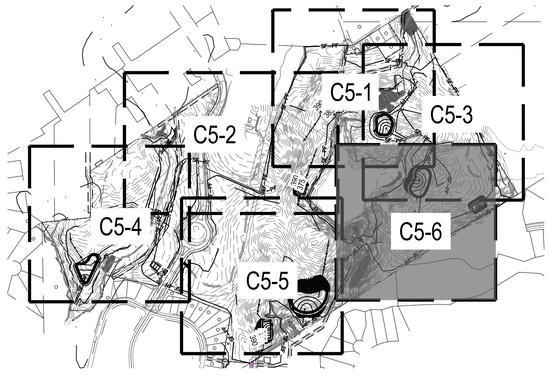
| CD | CHECK DAM |
| CD | SEDIMENTATION CHAMBER BERM |
| C# | SLOPE DRAIN WITH RIP-RAP APRON |
| SB# | TEMPORARY RISER SKIMMER SEDIMENT BASIN |
| IPR | STONE FILTER RING |
| IPS | SILT FENCE INLET SEDIMENT TRAP |
| IPE | EXCAVATED INLET SEDIMENT TRAP |
| IPB | BLOCK INLET SEDIMENT FILTER |
| LoD | |




0 25' 50' 100'
SCALE: 1" = 50'

811 Know what's below. Call before you dig.

| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BGE
5440 WADE PARK BLVD, SUITE 102
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1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

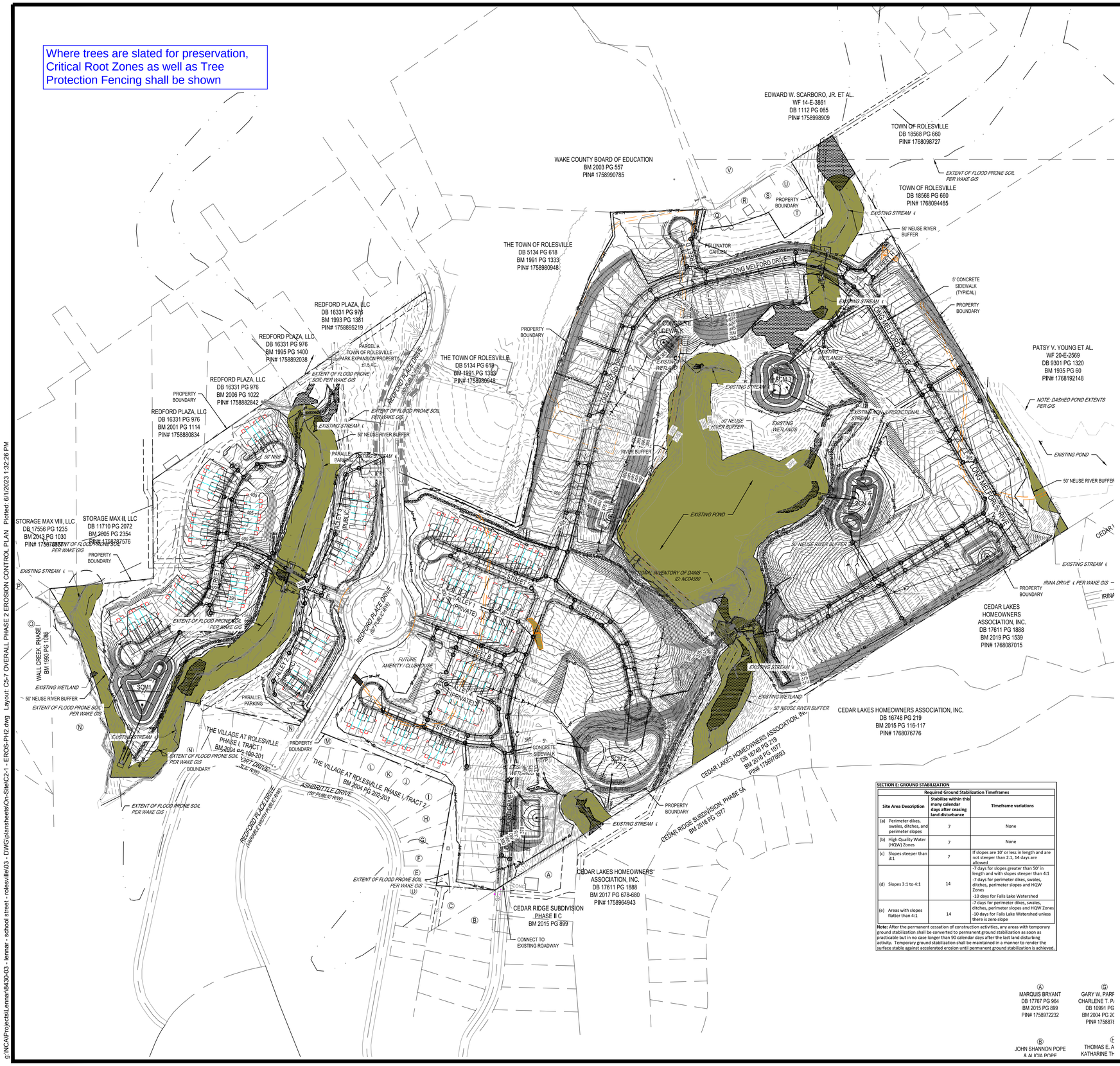
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 1 EROSION CONTROL PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERN
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-6

Where trees are slated for preservation, Critical Root Zones as well as Tree Protection Fencing shall be shown




## EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DA# ±X.X AC — DRAINAGE AREA LABEL
- SOIL — SOIL TYPE
- H:V, X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX, 100.XX — DIRECTION OF OVERLAND FLOW
- RR — RIP RAP APRON
- CE — CONSTRUCTION EXIT
- LD — EROSION CONTROL MATTING (NAG S150)
- LoD — LIMITS OF DISTURBANCE
- JN — TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- DD# — TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMP SILT FENCE WITH OUTLET (SF, 4.00')
- PF — TEMP TREE PROTECTION FENCE
- SP — TEMP SILT / TREE PROTECTION FENCE
- CF — TEMP CONSTRUCTION FENCE
- HZ — TEMPORARY HIGH HAZARD FENCE
- CD — CHECK DAM
- CD — SEDIMENTATION CHAMBER BERM
- C# — SLOPE DRAIN WITH RIP-RAP APRON
- BB# — TEMPORARY RISER SKIMMER SEDIMENT BASIN
- IPR — STONE FILTER RING
- IPS — SILT FENCE INLET SEDIMENT TRAP
- IPE — EXCAVATED INLET SEDIMENT TRAP
- IPB — BLOCK INLET SEDIMENT FILTER

## GENERAL EROSION CONTROL CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS FURNISHED AS A GENERAL GUIDE FOR PREPARATION OF A SEQUENCE OF CONSTRUCTION EVENTS. ADDITIONS, DELETIONS, AND MODIFICATIONS SHOULD BE MADE AS APPROPRIATE.

PHASE 1:

1. OBTAIN GRADING/ EROSION CONTROL PLAN APPROVAL FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
2. THE CONTRACTOR SHALL SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH CITY EROSION CONTROL INSPECTOR TO DISCUSS EROSION CONTROL MEASURES. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION AND IS SUBJECT TO FINE.
3. INSTALL SWPPP SIGN AND TEMPORARY CONSTRUCTION ENTRANCE.
4. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
5. SCHEDULE AN ON-SITE INSPECTION BY CITY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
6. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.

PHASE 2:

7. BEGIN EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL INLET PROTECTION DEVICES, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
8. AS EARTHWORK ALLOWS, BEGIN INSTALLING STORM DRAINAGE STRUCTURES AND UTILITIES. AS STORM DRAINAGE IS INSTALLED, CONTRACTOR SHALL PLACE INLET PROTECTION ON ALL STORM STRUCTURES. NO PIPES SHALL BE LEFT EXPOSED AT THE CLOSE OF BUSINESS EACH DAY.
9. DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE CITY INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
10. GRADED SLOPES AND FILLS ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER SUFFICIENT TO RESTRAIN EROSION WITHIN 7 CALENDAR DAYS AFTER THE COMPLETION OF ANY PHASE OF GRADING. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
11. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE, AND THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
12. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS AND LANDSCAPE PLAN AND DETAILS.
13. CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

**SECTION E: GROUND STABILIZATION**

| Required Ground Stabilization Timeframes | | |
|---|---|---|
| **Site Area Description** | **Stabilize within this many calendar days after ceasing land disturbance** | **Timeframe variations** |
| (a) Perimeter dikes, swales, ditches, and perimeter slopes | 7 | None |
| (b) High Quality Water (HQW) Zones | 7 | None |
| (c) Slopes steeper than 3:1 | 7 | If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed |
| (d) Slopes 3:1 to 4:1 | 14 | -7 days for slopes greater than 50' in length and with slopes steeper than 4:1<br>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones<br>-10 days for Falls Lake Watershed |
| (e) Areas with slopes flatter than 4:1 | 14 | -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones<br>-10 days for Falls Lake Watershed unless there is zero slope |

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

TOTAL DISTURBED AREA
±59.6 ACRES

0 75' 150' 300'
SCALE: 1" = 150'

811 Know what's below. Call before you dig.

| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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NC LICENSE #C-4397


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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

# OVERALL PHASE 2 EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRI
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-7

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-8 ENLARGED PHASE 2 EROSION CONTROL PLAN (1 OF 6) Plotted: 6/12/2023 1:32:42 PM


**SECTION E: GROUND STABILIZATION**

| Required Ground Stabilization Timeframes | | |
|---|---|---|
| **Site Area Description** | **Stabilize within this many calendar days after ceasing land disturbance** | **Timeframe variations** |
| (a) Perimeter dikes, swales, ditches, and perimeter slopes | 7 | None |
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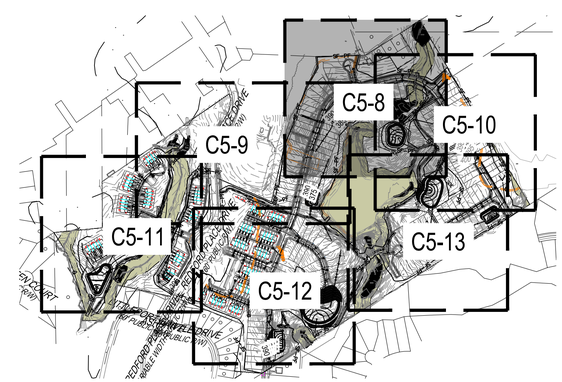
## EXISTING UTILITY LEGEND

- EXISTING CABLE TV
- EXISTING ELECTRIC
- EXISTING ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING GAS LINE
- EXISTING SANITARY
- EXISTING SANITARY FORCE MAIN
- EXISTING STORM
- EXISTING TELEPHONE
- EXISTING WATER (WATERLINE SIZE AND TYPE)
- EXISTING WATER (UNKNOWN UTILITY)

## EXISTING VEGETATION LEGEND

- EXISTING TREES / SHRUBS / BUSHES
- EXISTING TREELINE




0 25' 50' 100'
SCALE: 1" = 50'

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| REV | DATE | DESCRIPTION |
|---|---|---|
| | | |
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| | | |
| | | |
| | | |
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF


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# ENLARGED PHASE 2 EROSION CONTROL PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRIS
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-8

**SECTION E: GROUND STABILIZATION**

| Required Ground Stabilization Timeframes | | |
|---|---|---|
| Site Area Description | Stabilize within this many calendar days after ceasing land disturbance | Timeframe variations |
| (a) Perimeter dikes, swales, ditches, and perimeter slopes | 7 | None |
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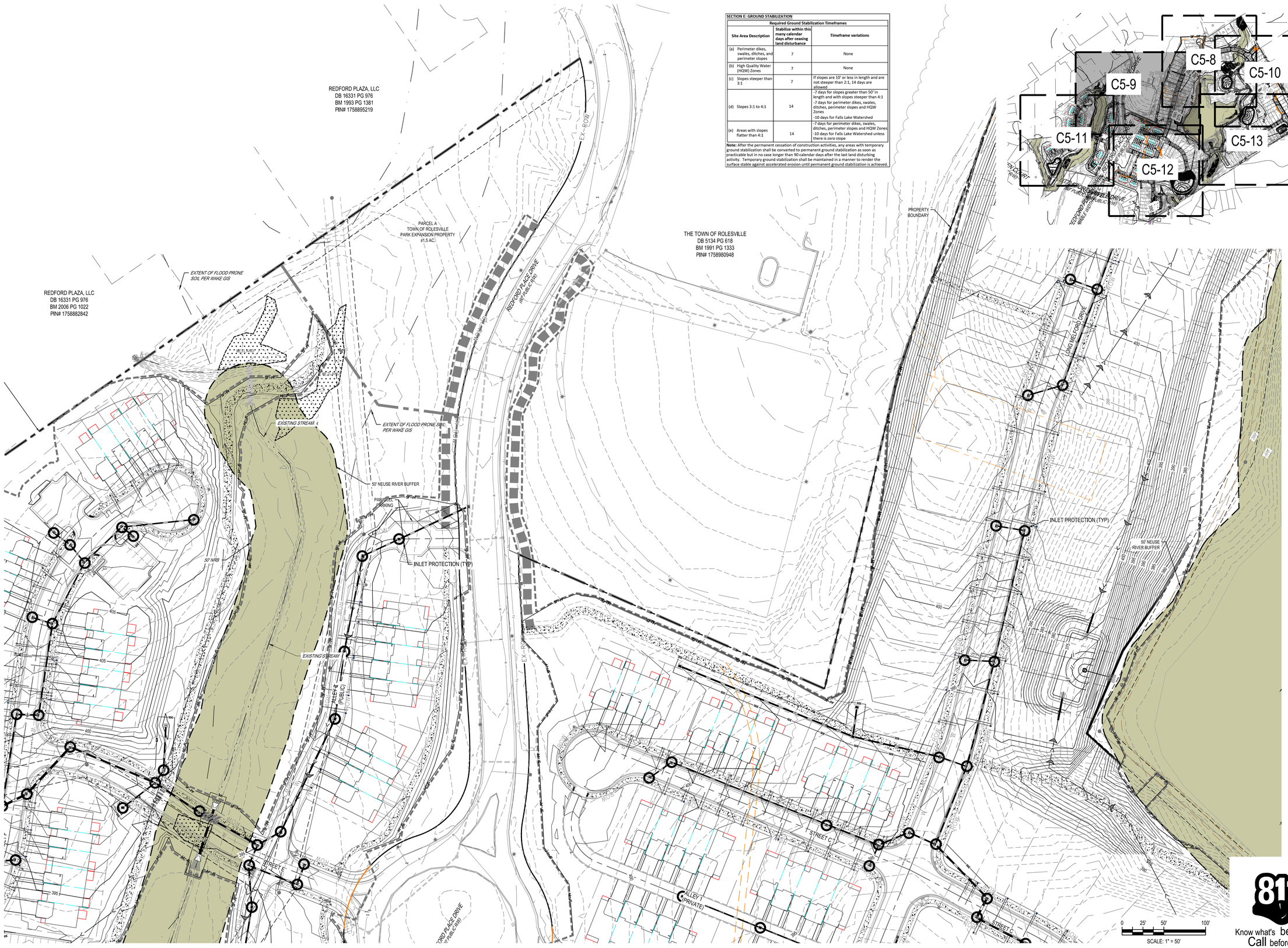


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| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF


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ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2 EROSION CONTROL PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERN
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-9

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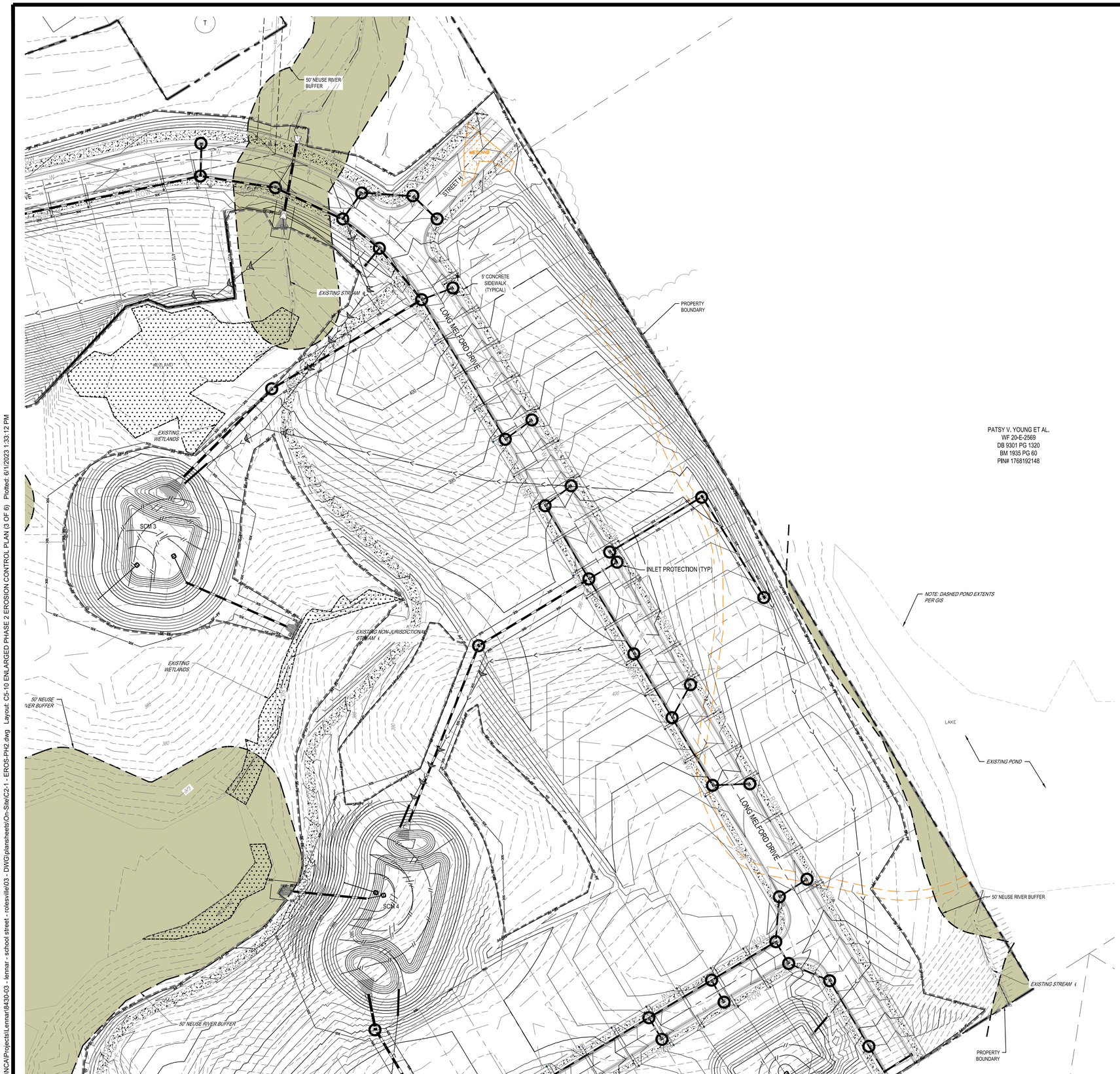


PATSY V. YOUNG ET AL.
WF 20-E-2569
DB 9301 PG 1320
BM 1935 PG 60
PIN# 1768192148

**SECTION E: GROUND STABILIZATION**

**Required Ground Stabilization Timeframes**

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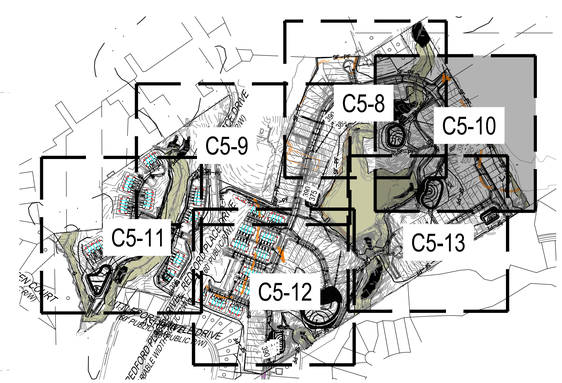


0 25' 50' 100'
SCALE: 1" = 50'

Know what's below. Call before you dig.

| REV | | DESCRIPTION |
|---|---|---|
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| △ | | |
| △ | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| △ | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED SITE PLAN
(3 OF 7)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-10


**SECTION E: GROUND STABILIZATION**

**Required Ground Stabilization Timeframes**

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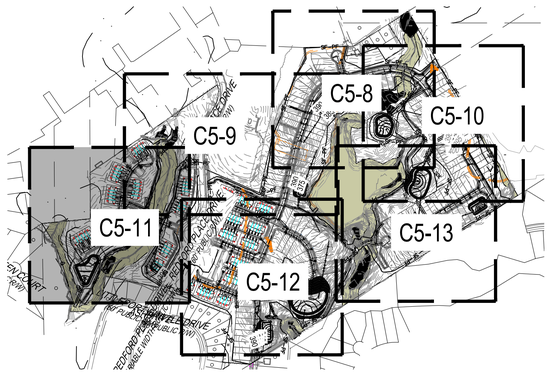


0 25' 50' 100'
SCALE: 1" = 50'

811
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N

| REV | | |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

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DRAWN BY: DF/JWM
REVIEWED BY: DF

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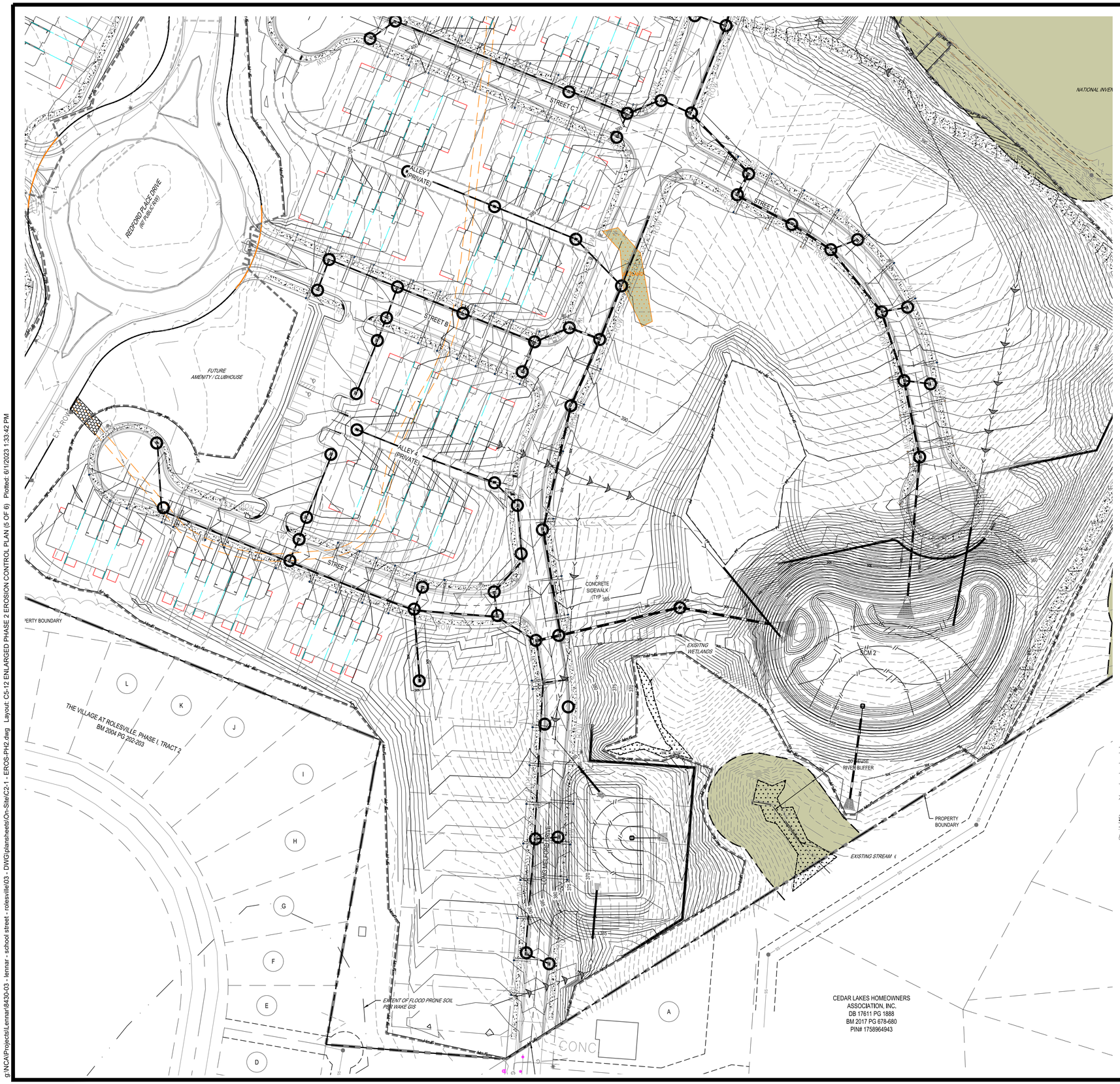
ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 2 EROSION CONTROL PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
ENGINEER
DEBRA M. FERRI
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-11

g:\NCA\Projects\Lennar\8430-03 - lennar - school street - rolesville\03 - DWG\plansheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-11 ENLARGED PHASE 2 EROSION CONTROL PLAN (4 OF 6) Plotted: 6/1/2023 1:33:29 PM




**SECTION E: GROUND STABILIZATION**

| Required Ground Stabilization Timeframes | | |
|---|---|---|
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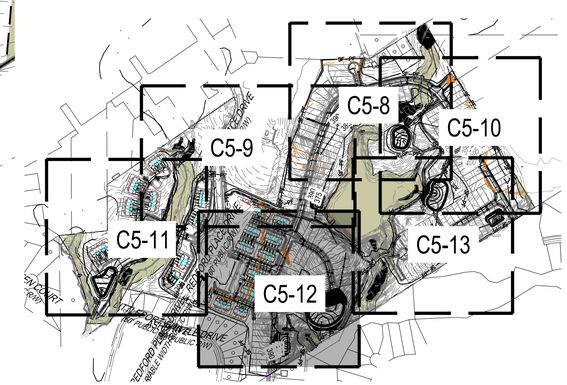


0 25' 50' 100'
SCALE: 1" = 50'

811
Know what's below.
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N

| REV | DATE | DESCRIPTION |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 6 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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NC LICENSE #C-4397


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PARKER RIDGE
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ROLESVILLE / NORTH CAROLINA / 27571

# ENLARGED PHASE 2 EROSION CONTROL PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERN
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-12


**SECTION E: GROUND STABILIZATION**

| Required Ground Stabilization Timeframes | | |
|---|---|---|
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| REV | | |
|---|---|---|
| 1 | 06/01/2023 | PER TOWN OF ROLESVILLE COMMENT |
| 0 | 04/03/2023 | INITIAL SUBMITTAL |

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2 EROSION CONTROL PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERM
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 06/01/2023
C5-13

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