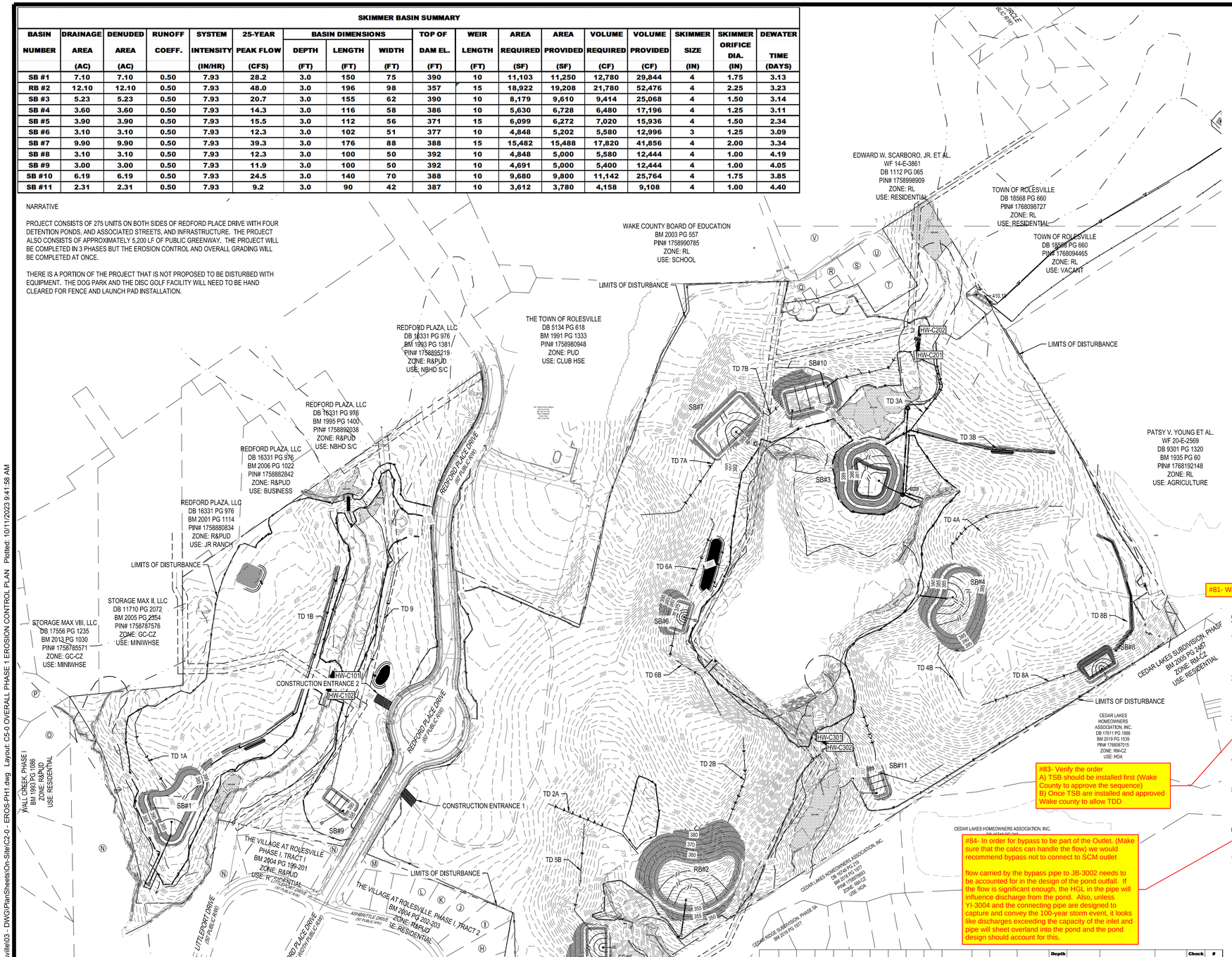
SKIMMER BASIN SUMMARY

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	7.10	7.10	0.50	7.93	28.2	3.0	150	75	390	10	11,103	11,250	12,780	29,844	4	1.75	3.13
RB #2	12.10	12.10	0.50	7.93	48.0	3.0	196	98	357	15	18,922	19,208	21,780	52,476	4	2.25	3.23
SB #3	5.23	5.23	0.50	7.93	20.7	3.0	155	62	390	10	8,179	9,610	9,414	25,068	4	1.50	3.14
SB #4	3.60	3.60	0.50	7.93	14.3	3.0	116	58	386	10	5,630	6,728	6,480	17,196	4	1.25	3.11
SB #5	3.90	3.90	0.50	7.93	15.5	3.0	112	56	371	15	6,099	6,272	7,020	15,936	4	1.50	2.34
SB #6	3.10	3.10	0.50	7.93	12.3	3.0	102	51	377	10	4,848	5,202	5,580	12,996	3	1.25	3.09
SB #7	9.90	9.90	0.50	7.93	39.3	3.0	176	88	388	15	15,482	15,488	17,820	41,856	4	2.00	3.34
SB #8	3.10	3.10	0.50	7.93	12.3	3.0	100	50	392	10	4,848	5,000	5,580	12,444	4	1.00	4.19
SB #9	3.00	3.00	0.50	7.93	11.9	3.0	100	50	392	10	4,691	5,000	5,400	12,444	4	1.00	4.05
SB #10	6.19	6.19	0.50	7.93	24.5	3.0	140	70	388	10	9,680	9,800	11,142	25,764	4	1.75	3.85
SB #11	2.31	2.31	0.50	7.93	9.2	3.0	90	42	387	10	3,612	3,780	4,158	9,108	4	1.00	4.40

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 GRADING WILL BE COMPLETED AT ONCE.

THERE IS A PORTION OF THE PROJECT THAT IS NOT PROPOSED TO BE DISTURBED WITH EQUIPMENT. THE DOG PARK AND THE DISC GOLF FACILITY WILL NEED TO BE HAND CLEARED FOR FENCE AND LAUNCH PAD INSTALLATION.



EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DIRECTION OF OVERLAND FLOW (H.V, X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX)
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
- TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION

#81- WAKE COUNTY?

#82- Stock Pile Notes

#83- Verify the order
A) TSB should be installed first (Wake County to approve the sequence)
B) Once TSB are installed and approved Wake county to allow TDD

#84- In order for bypass to be part of the Outlet. (Make sure that the calcs can handle the flow) we would recommend bypass not to connect to SCM outlet

flow carried by the bypass pipe to JB-3002 needs to be accounted for in the design of the pond outfall. If the flow is significant enough, the HGL in the pipe will influence discharge from the pond. Also, unless YI-3004 and the connecting pipe are designed to capture and convey the 100-year storm event, it looks like discharges exceeding the capacity of the inlet and pipe will sheet overland into the pond and the pond design should account for this.

CONSTRUCTION SEQUENCE - PHASE 1

1. INSTALL TREE PROTECTION FENCING PER THE APPROVED PLAN. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, AND BRIDGEMATS AT STREAM CROSSINGS TO ACCESS AREAS ON EACH SIDE OF THE STREAMS. SEE SHEETS C7-4 - C7-7 FOR TEMPORARY CHANNEL SIZING AND CULVERT INSTALLATION SEQUENCING.
3. INSTALL TEMPORARY DIVERSIONS, SKIMMER 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.
4. INSTALL THE OUTLET FOR SB4 AND THE BYPASS LINE FROM JB3001 - YI3002 WITH INLET PROTECTION.
5. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
7. 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.

TD#	DA (ac)	L (ft)	High El. (ft)	Low El. (ft)	Slope (ft/ft)	C	I (in/hr)	Q (25) (cfs)	Bottom W (ft)	Side Slopes (X:1)	V (fps)	Normal D (in)	Normal D (ft)	Depth Reqd. (ft)	Shear Stress (lb/sf)	Liner Reqd.	Slope Drain Size & Material	Sp. (ft)	Check Dam	# Check Dams
1A	0.51	264	398	390	0.030	0.500	7.98	2.03	2.00	2.00	2.93	2.9	0.24	1.00	0.5	Am. Excelsior - 1 net	18" HDPE	99	3	
1B	5.95	790	398	390	0.010	0.500	7.98	23.74	4.00	2.00	3.81	13.4	1.12	2.00	0.7	NAG Straw- 2 nets	18" HDPE	296	3	
2A	8.97	315.00	394.00	376.00	0.057	0.50	7.98	35.79	2.00	2.00	7.51	11.70	0.98	1.50	3.48	NGA 70% straw/30% coconut - 2 nets	12" HDPE	52.50	6.00	
2B	0.44	407.00	400.00	380.00	0.049	0.50	7.98	1.76	2.00	2.00	3.08	2.10	0.18	1.00	0.54	Am. Excelsior - 1 net	12" HDPE	61.05	6.67	
3A	0.59	377.00	408.00	391.00	0.045	0.50	7.98	2.35	2.00	2.00	3.40	2.60	0.22	1.00	0.61	Am. Excelsior - 1 net	12" HDPE	66.53	5.67	
3B	3.57	443.00	407.00	393.00	0.018	0.50	7.98	14.24	2.00	2.00	3.60	7.80	0.65	1.50	0.73	NAG Straw- 2 nets	12" HDPE	166.13	2.67	
4A	0.58	329.00	398.00	385.00	0.040	0.50	7.98	2.31	2.00	2.00	2.29	2.40	0.20	1.00	0.49	Am. Excelsior - 1 net	12" HDPE	75.92	4.33	
4B	0.27	187.00	399.00	396.00	0.016	0.50	7.98	1.08	2.00	2.00	1.54	1.90	0.16	1.00	0.16	Grass	12" HDPE	187.00	1.00	
5A	0.19	135	396	383	0.096	0.500	7.98	0.76	4.00	2.00	2.53	1.2	0.10	1.00	0.6	Am. Excelsior - 1 net	18" HDPE	31	4	
5B	2.99	340.00	383.00	376.00	0.021	0.50	7.98	11.93	2.00	2.00	4.94	10.90	0.91	1.50	1.17	NAG Straw- 2 nets	12" HDPE	145.71	2.33	
6A	0.99	233.00	386.00	379.00	0.030	0.50	7.98	3.95	2.00	2.00	3.71	4.60	0.38	1.00	0.72	NAG Straw- 2 nets	18" HDPE	99.86	2.33	
6B	1.29	334.00	399.00	380.00	0.057	0.50	7.98	5.15	2.00	2.00	5.04	4.50	0.38	1.00	1.33	NAG Straw- 2 nets	12" HDPE	52.74	6.33	
7A	2.45	353.00	414.00	389.00	0.071	0.50	7.98	9.78	2.00	2.00	4.62	5.00	0.42	1.00	1.84	NAG Straw- 2 nets	12" HDPE	42.36	8.33	
7B	0.05	456.00	402.00	392.00	0.022	0.50	7.98	0.20	2.00	2.00	3.93	7.40	0.62	1.50	0.84	NAG Straw- 2 nets	18" HDPE	136.80	3.33	
8A	0.89	320.00	398.00	393.00	0.016	0.50	7.98	3.55	2.00	2.00	2.90	5.20	0.43	1.00	0.42	Am. Excelsior - 1 net	12" HDPE	192.00	1.67	
8B	1.24	530.00	398.00	396.00	0.004	0.50	7.98	4.95	2.00	2.00	1.93	8.90	0.74	1.50	0.17	Grass	12" HDPE	795.00	0.67	
9	2.24	750	399	320	0.105	0.500	7.98	8.94	4.00	2.00	7.37	5.1	0.43	1.00	2.8	NGA 70% straw/30% coconut - 2 nets	18" HDPE	28	26	
10A	2.59	138	403	394	0.064	0.500	7.98	10.33	2.00	2.00	7.68	5.5	0.46	1.00	1.8	NGA 70% straw/30% coconut - 2 nets	18" HDPE	47	3	
10B	1.88	196	405	396	0.049	0.50	7.98	7.50	2.00	2.00	5.34	5.70	0.48	1.00	1.5	NAG Straw- 2 nets	18" HDPE	61	3	
11A	1.02	158	378	367	0.066	0.50	7.98	4.09	2.00	2.00	4.95	3.80	0.32	1.00	1.3	NAG Straw- 2 nets	18" HDPE	45	3	
11B	1.35	743.00	375.00	365.00	0.013	0.50	7.98	5.37	2.00	2.00	2.33	4.20	0.35	1.00	0.3	Am. Excelsior - 1 net	18" HDPE	223	3	

TOTAL DISTURBED AREA
±62.3 ACRES

0 75 150 300
SCALE: 1" = 150

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

REV	DATE	
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
0	06/01/2023	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

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

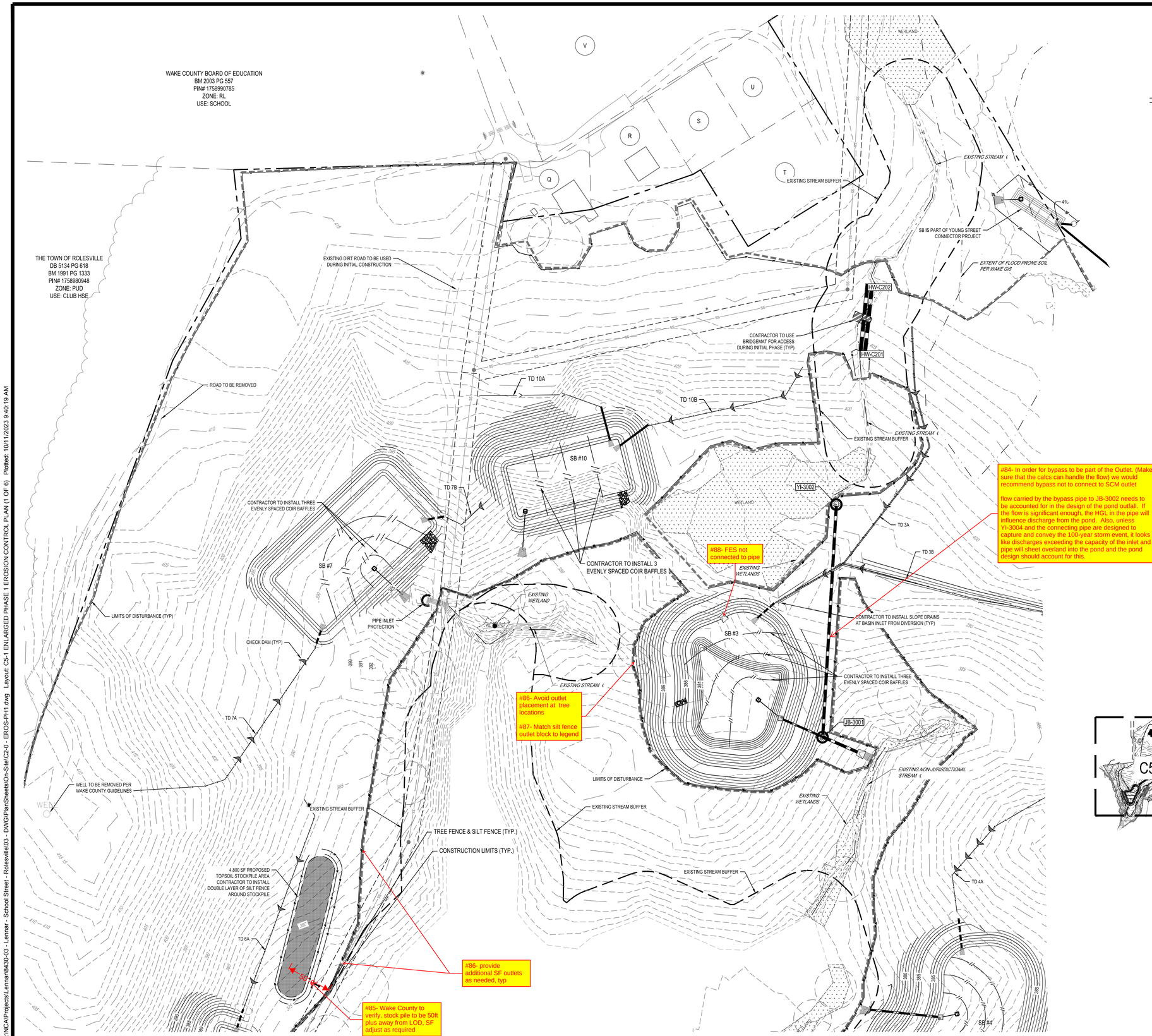
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 1 EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERM
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
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: 10/11/2023 9:41:58 AM



EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- H:V — X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX — 100.XX — DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
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- TEMPORARY DIVERSION DITCH OR BERM
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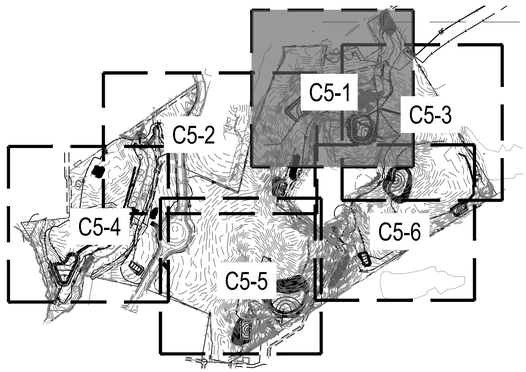

0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	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

LENNAR CORPORTAION
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 (1 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERRIS
PRELIMINARY
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
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: 10/11/2023 9:40:19 AM

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
0	06/01/2023	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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MORRISVILLE / NORTH CAROLINA / 27560

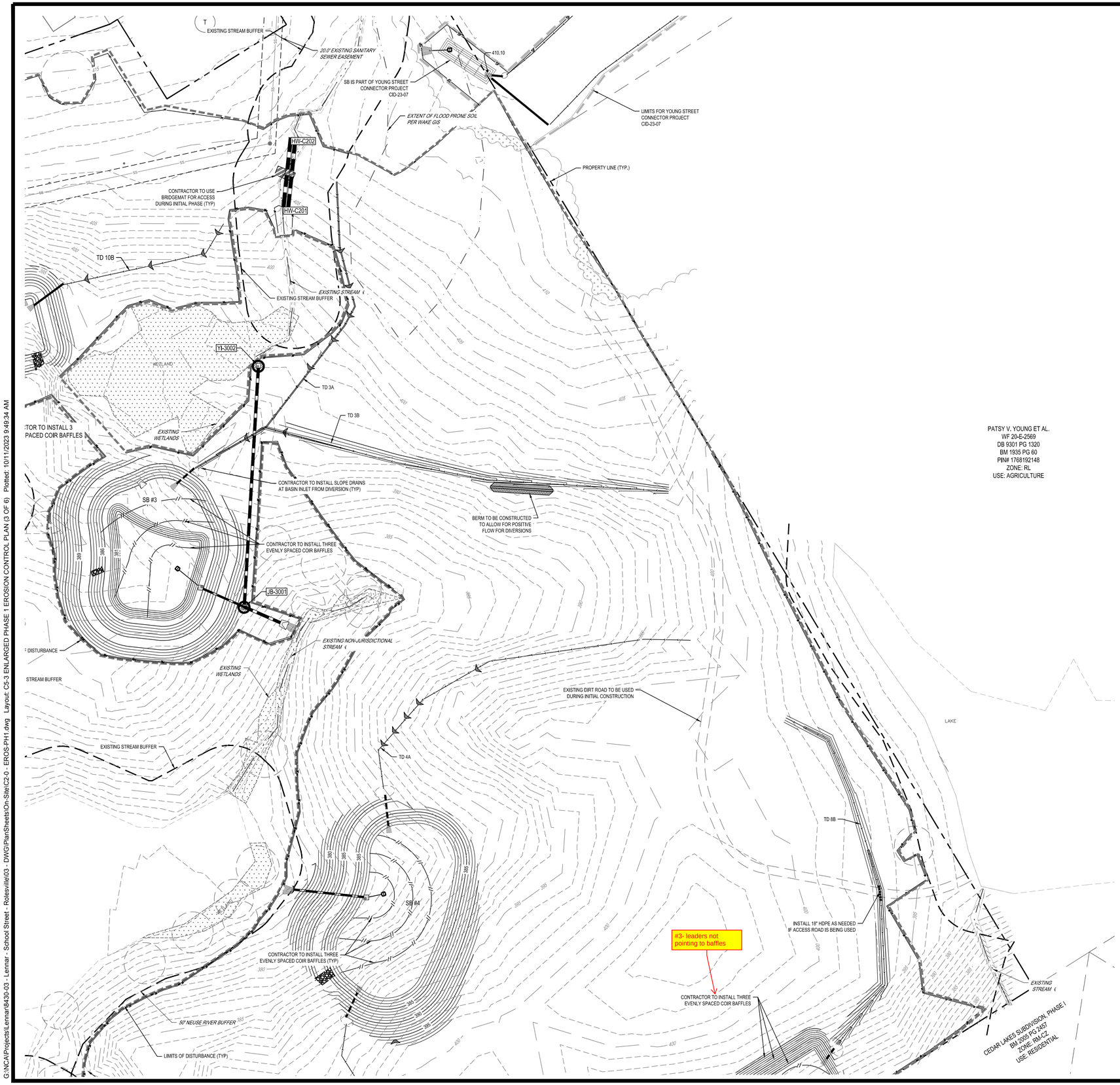
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERN 10-12-23
PRELIMINARY
NOT FOR CONSTRUCTION

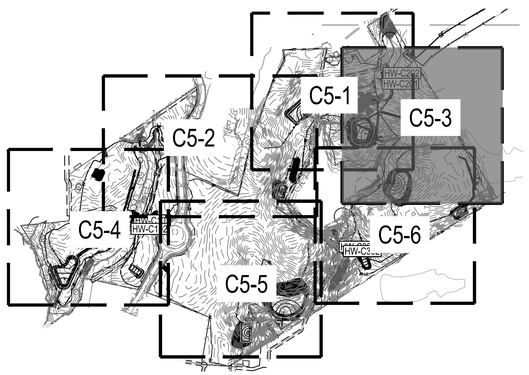
FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-2

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2.0 - EROS-PH1.dwg Layout: C5-2 ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6) Plotted: 10/10/2023 8:01:10 PM



EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- H:V — X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX — 100.XX — DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMP SILT FENCE WITH OUTLET
- PF — TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION



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

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

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

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

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MORRISVILLE / NORTH CAROLINA / 27560

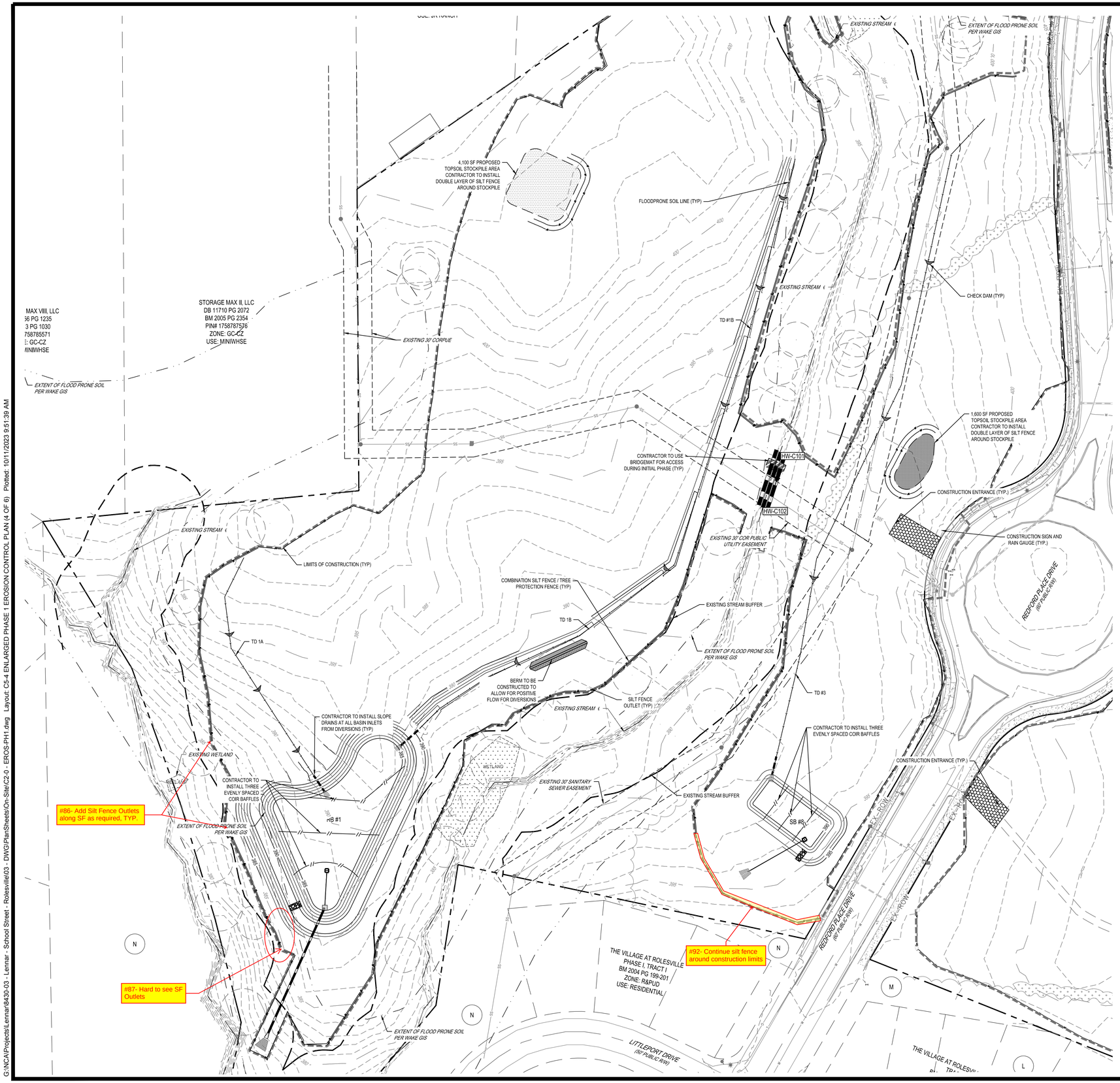
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED SITE PLAN
(3 OF 7)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FOX
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-3

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-0 - EROS-PH1.dwg Layout: C5-3 ENLARGED PHASE 1 EROSION CONTROL PLAN (3 OF 6) Plotted: 10/11/2023 9:49:34 AM



EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DIRECTION OF OVERLAND FLOW (H.V. / X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX / 100.XX)
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
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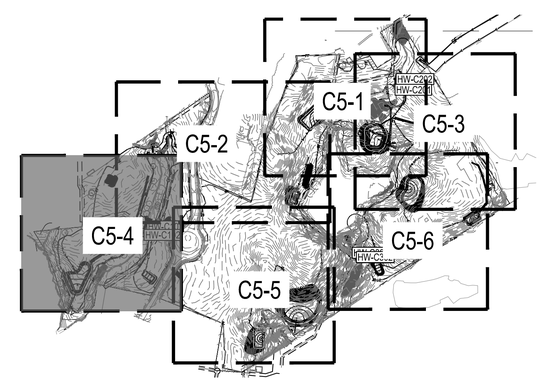
- INLET PROTECTION
- EXCAVATED INLET PROTECTION



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

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	INITIAL SUBMITTAL

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

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

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1100 PERIMETER PARK DRIVE, SUITE 112
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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 — 10-12-23
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
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: 10/11/2023 9:51:39 AM

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	INITIAL SUBMITTAL

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

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LENNAR CORPORTAION
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MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

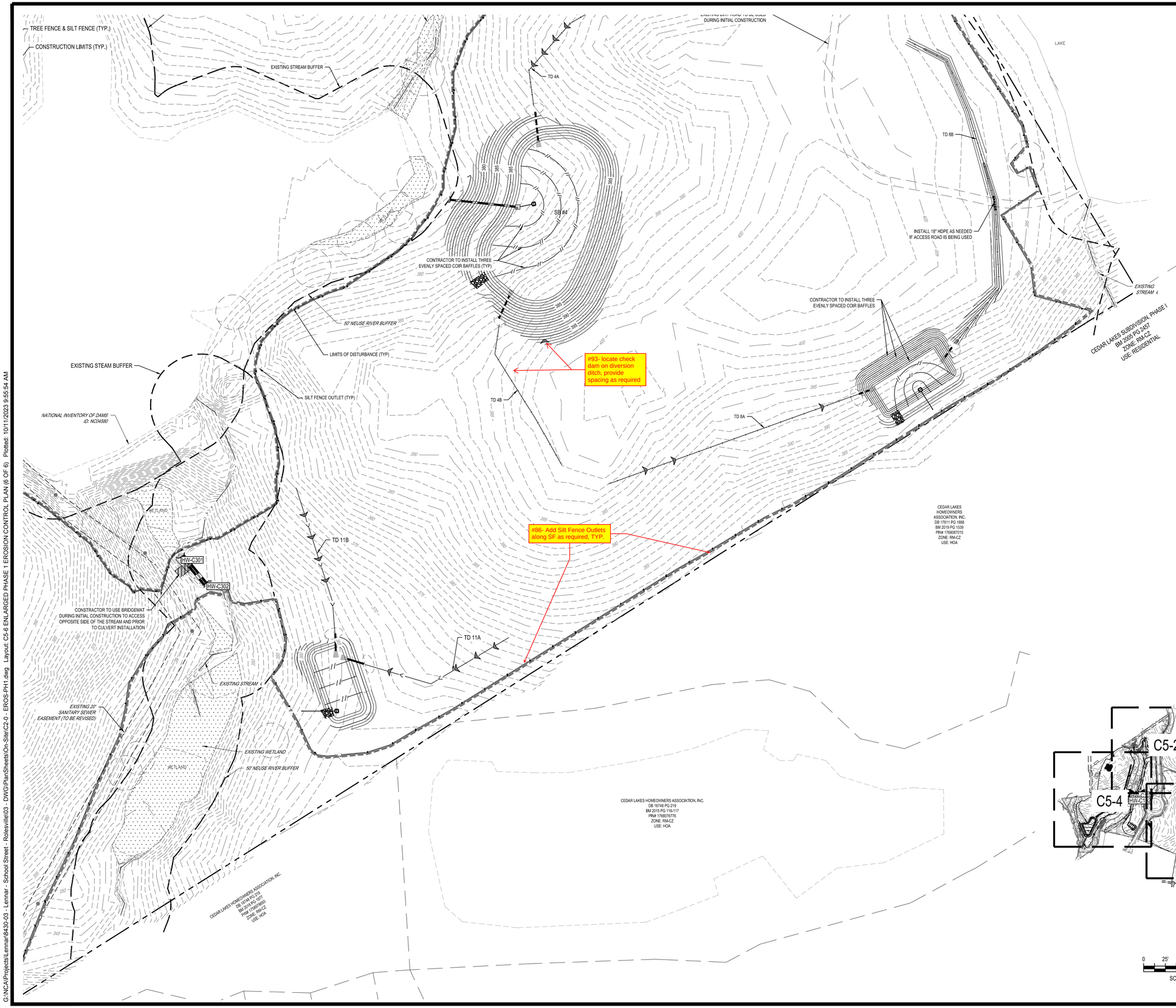
ENLARGED PHASE 1 EROSION CONTROL PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FOLEY
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-5

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

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: 10/11/2023 9:52:55 AM



EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DIRECTION OF OVERLAND FLOW (H:V, X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX)
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
- TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	INITIAL SUBMITTAL

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

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5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
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NC LICENSE #C-4397

LENNAR CORPORTAION
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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
PRELIMINARY
DEBRA M. FERRY
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023

C5-6

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

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2.0 - EROS-PH1.dwg Layout: C5-6 ENLARGED PHASE 1 EROSION CONTROL PLAN (6 OF 6) Plotted: 10/11/2023 9:55:54 AM

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
- H:V X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX 100.XX — SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 CO/R FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMPORARY SILT FENCE
- PF — TEMP TREE PROTECTION FENCE
- SF-PF — TEMP SILT / TREE PROTECTION FENCE
- CF — TEMP CONSTRUCTION FENCE
- 4.00' — SILT FENCE OUTLET
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FB — FILTER BAG

1. INSTALL STORM DRAINAGE SYSTEM AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHWON ON THE PLAN. INSTALL ENERGY DISSIPATERS UPON COMPLETION
2. CLEAR AND GRUB REMAINDER OF SITE TO BE DISTURBED
3. CONTINUE GRADING ACTIVITIES AND REROUTE DIVERSIONS TO MAINTAIN POSITIVE FLOW USING EARTHEN BERMS AS NECESSARY TO BRING SITE TO FINAL GRADE
4. MAINTAIN DEVICES PER NOTES ON C0-1. GRAVEL CONSTRUCTION ENTRANCES AND OTHER MEASURES SHALL BE PROPERLY MAINTAINED TO PREVENT SEDIMENT FROM ENTERING THE STREET.
5. SKIMMER BASINS SHALL REMAIN UNTIL THEY ARE APPROVED TO BE REMOVED. SILT BAGS SHALL BE USED TO DEWATER THE BASIN DURING THE CONVERSION.
6. ONCE THE STREETS HAVE BEEN PAVED, CURB INLET PROTECTION DEVICES SHALL BE CONVERTED TO STANDARD GRAVEL BAG CURB INLET PROTECTION.
7. ONCE THE SITE IS STABILIZED, CONTACT THE ENVIRONMENTAL CONSULTANT FOR INSPECTION AND APPROVAL TO REMOVE DEVICES.
8. CLEAN OUT SKIMMER BASINS WITH THE USE OF SILT BAGS, CUT AND GRADE SCM TO FINAL ELEVATIONS AND SEED IMMEDIATELY.
9. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED WEEKLY AND AFTER RAIN EVENTS SO THAT STREETS REMAIN CLEAN. AFTER PAVING HAS OCCURED, THE CONTRACTOR SHALL KEEP STREETS FREE OF SEDIMENT.
10. SCM CERTIFICATIONS AND AS-BUILT PLANS MUST BE PROVIDED TO THE STORMWATER CONTROL INSPECTOR FOR REVIEW 7 DAYS PRIOR TO FINAL INSPECTION. CERTIFICATIONS AND AS-BUILT PLANS MUST BE ACCEPTED PRIOR TO APPROVAL OF FINAL INSPECTION.

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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -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 -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.

PD	DA (ac)	C	I (in/hr)	Q (25) (ft^3/sec)	Bottom W (ft)	Side Slopes (__H:1V)	V (fps)	Normal D (in)	Normal D (ft)	Depth Req (ft)	Shear Stress (lb/ft^2)	Liner
1	0.226	0.55	7.98	0.99	2	3	2.21	2.1	0.18	1	0.4	NAG S75BN
2	0.516	0.65	7.98	2.68	2	3	2.1	4.5	0.38	1	0.35	NAG S75BN
3	0.551	0.65	7.98	2.86	2	3	2.51	4.4	0.37	1	0.49	NAG S75BN
4	0.443	0.65	7.98	2.30	2	3	3.04	3.2	0.27	1	0.85	NAG S75BN
5	0.582	0.65	7.98	3.02	2	3	2.52	4.6	0.38	1	0.47	NAG S75BN
6	0.524	0.72	7.98	3.01	2	3	2.86	4.2	0.35	1	0.58	NAG S75BN
7	0.389	0.65	7.98	2.02	2	3	3.17	3.4	0.28	1	1.24	NAG SC150BN

TOTAL DISTURBED AREA
±62.3 ACRES

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

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

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
0	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

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

BGE
5440 WADE PARK BLVD, SUITE 102
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MORRISVILLE / NORTH CAROLINA / 27560

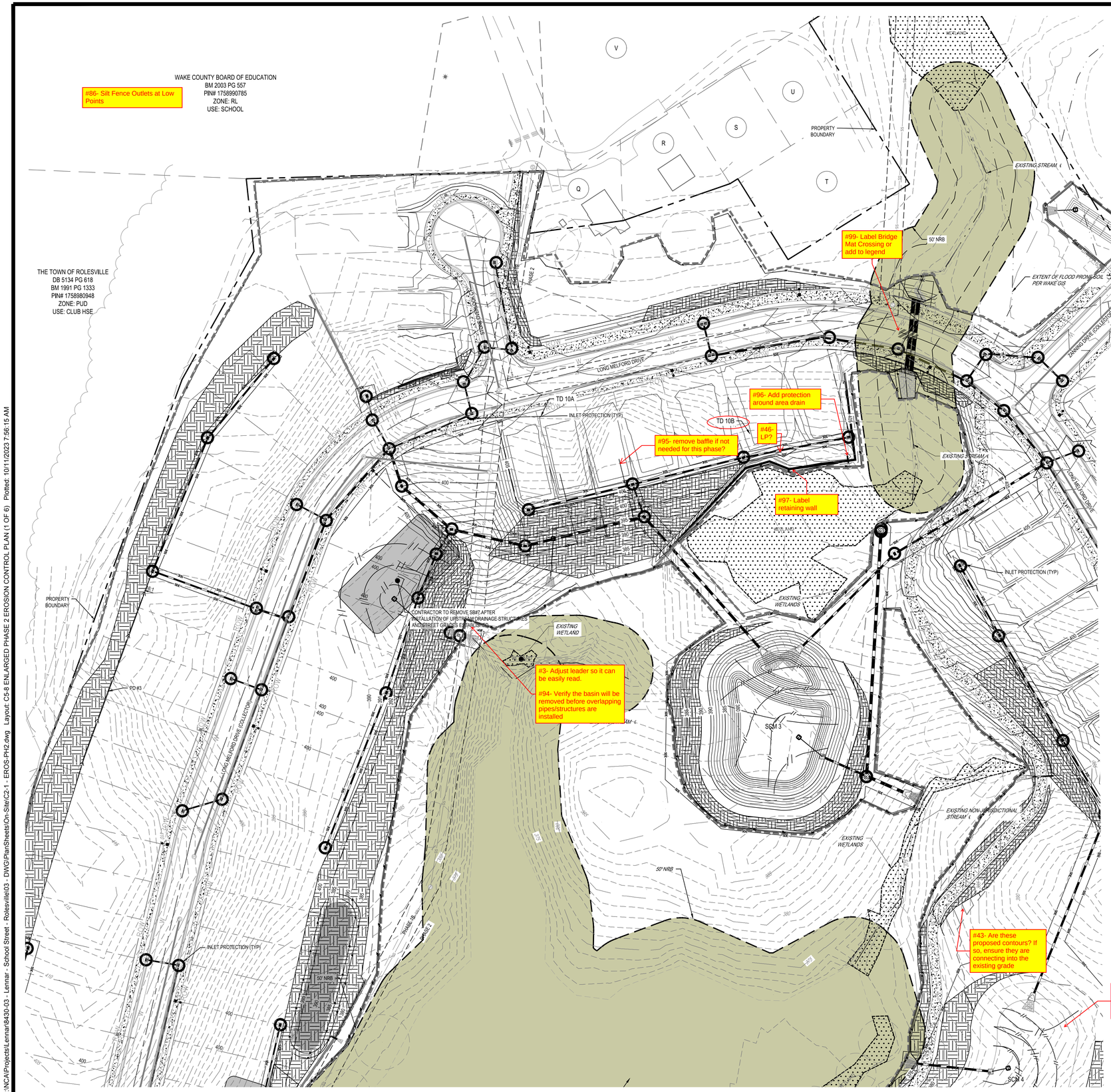
PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 2 EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
DEBRA M. FERRI
10-12-23
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-7

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-7 OVERALL PHASE 2 EROSION CONTROL PLAN Plotted: 10/11/2023 4:02:26 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
(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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -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 -10 days for Falls Lake Watershed unless there is zero slope

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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

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
- H:V X:X% — DIRECTION OF OVERLAND FLOW
- 100.XX 100.XX — SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
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- 4.00' — SILT FENCE OUTLET
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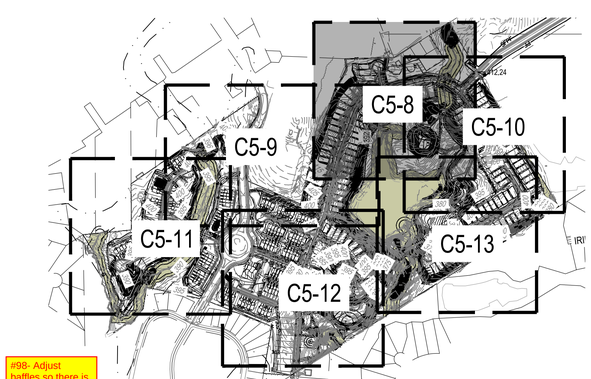
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FB — FILTER BAG



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

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

REV	DATE	DESCRIPTION
4		
3		
2		
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
0	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	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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ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2 EROSION CONTROL PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — DEBRA M. FERN — 10-12-23
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-8

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: 10/11/2023 7:56:15 AM

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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -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 -10 days for Falls Lake Watershed unless there is zero slope

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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE ABOVE

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
- H:V X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX 100.XX — SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
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- SF — TEMPORARY SILT FENCE
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- SF PF — TEMP SILT / TREE PROTECTION FENCE
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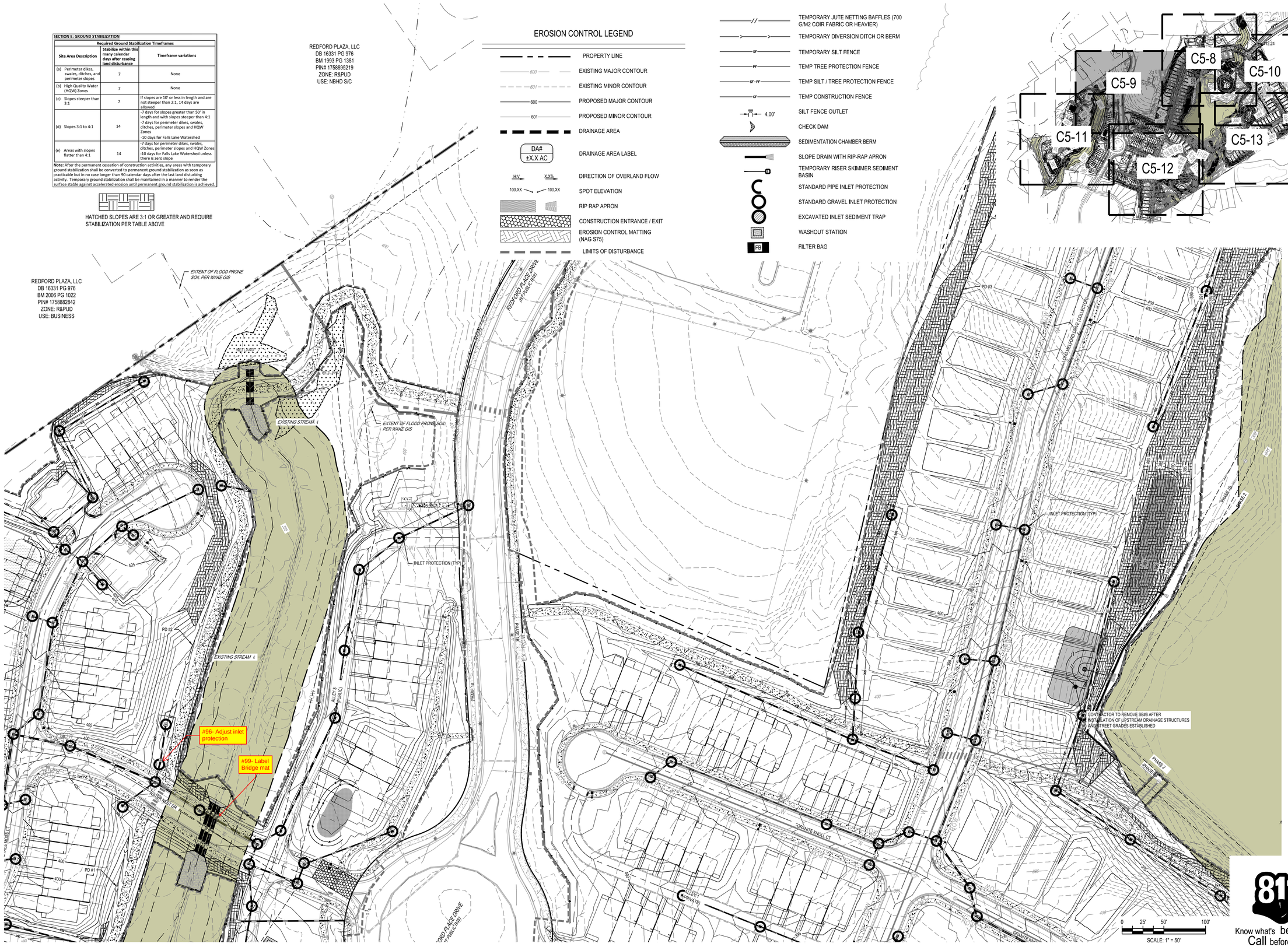
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FB — FILTER BAG



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

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	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 — PRELIMINARY — DEBRA M. FRANK — 10-12-23

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 10/02/2023

C5-9

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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
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- 600 — PROPOSED MAJOR CONTOUR
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- DRAINAGE AREA
- DA# / ±X.X AC — DRAINAGE AREA LABEL
- H:V / X.X% — DIRECTION OF OVERLAND FLOW
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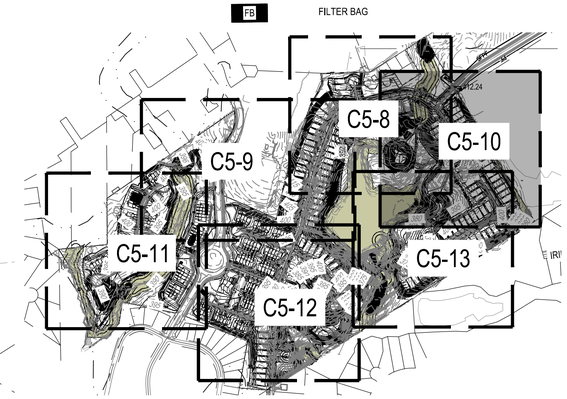
- FB — FILTER BAG



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

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	INITIAL SUBMITTAL

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

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82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2 EROSION CONTROL PLAN (3 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERM
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-10

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
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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

N

EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
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- 601 — PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DA# ±X.X AC — DRAINAGE AREA LABEL
- H.V. / X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX / 100.XX — SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
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- LIMITS OF DISTURBANCE
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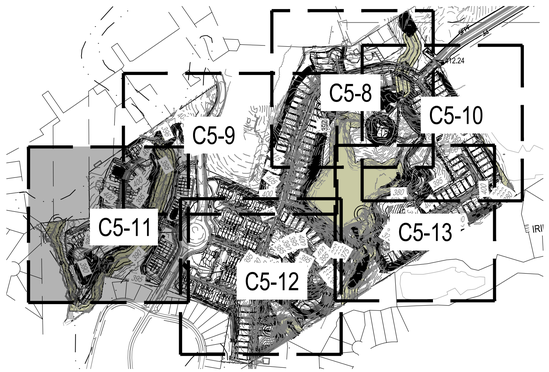
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FB — FILTER BAG



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

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

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	INITIAL SUBMITTAL

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

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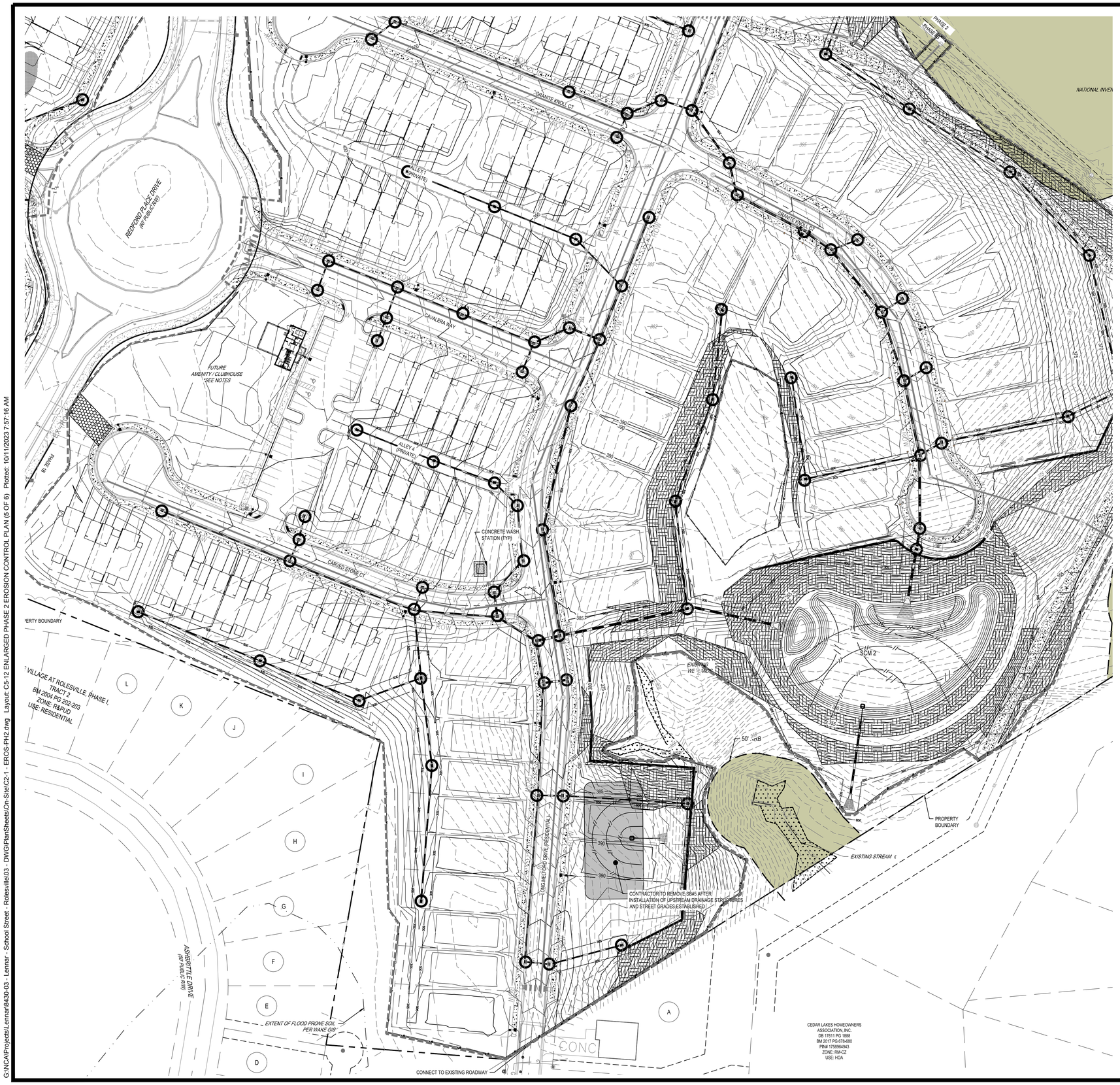
ENLARGED PHASE 2 EROSION CONTROL PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — PRELIMINARY — DEBRA M. FERRIS — 10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
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: 10/11/2023 7:57:01 AM



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 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -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 -10 days for Falls Lake Watershed unless there is zero slope

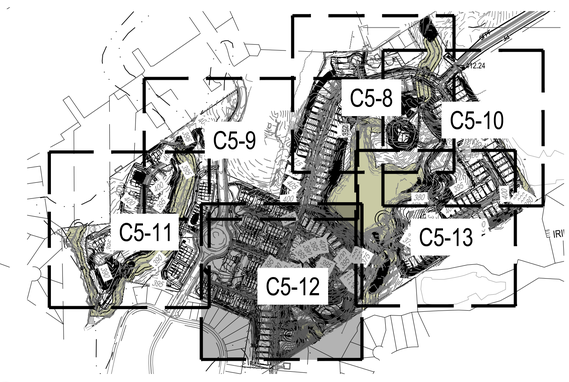
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization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

HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

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
- H:V / X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX / 100.XX — SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMPORARY SILT FENCE
- PF — TEMP TREE PROTECTION FENCE
- SF-PF — TEMP SILT / TREE PROTECTION FENCE
- CF — TEMP CONSTRUCTION FENCE
- 4.00' — SILT FENCE OUTLET
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FB — FILTER BAG



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

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

REV	DATE	DESCRIPTION
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
2	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
3	06/01/2023	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

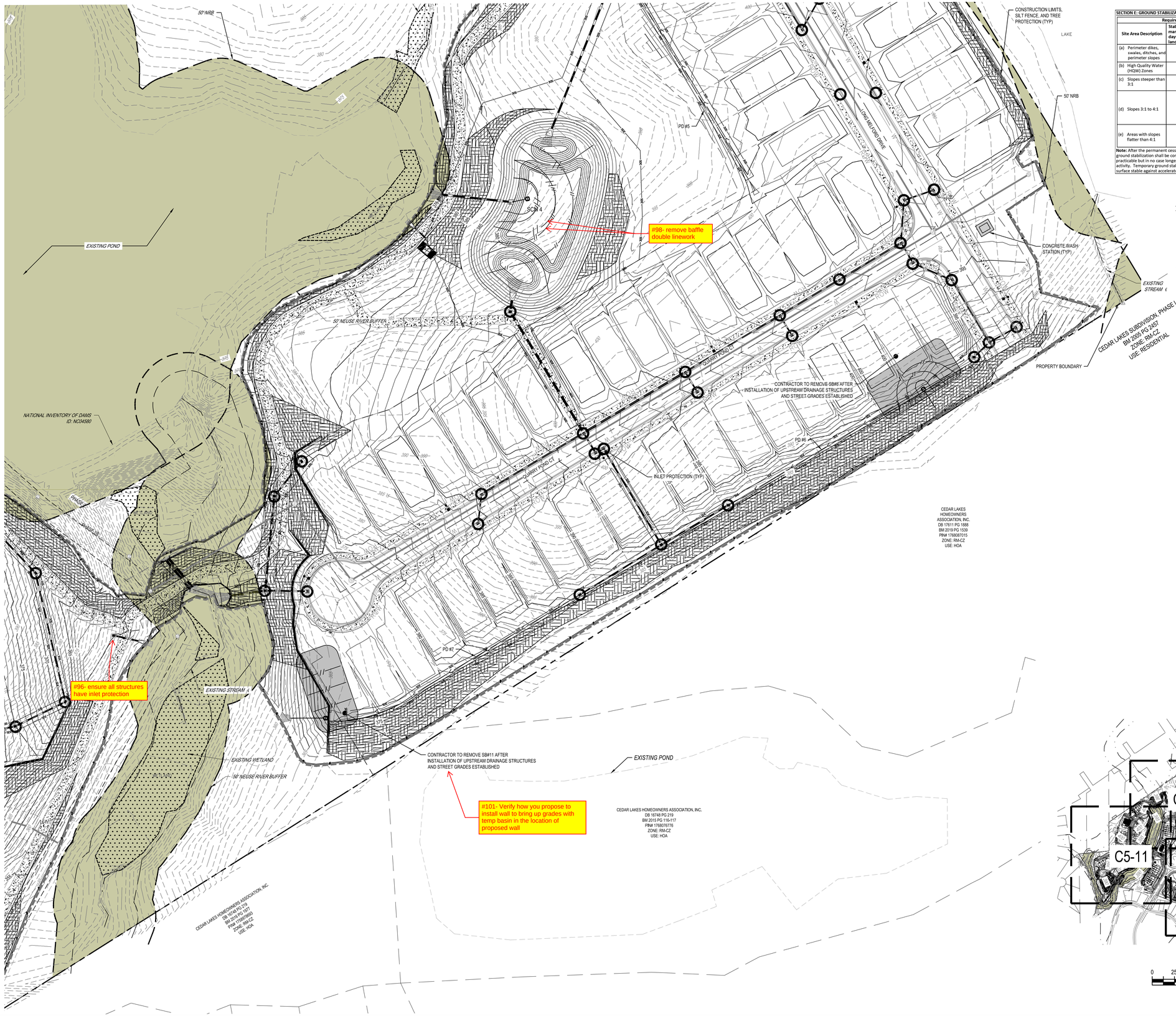
LENNAR CORPORTAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2 EROSION CONTROL PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERN
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-12



SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

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EROSION CONTROL LEGEND

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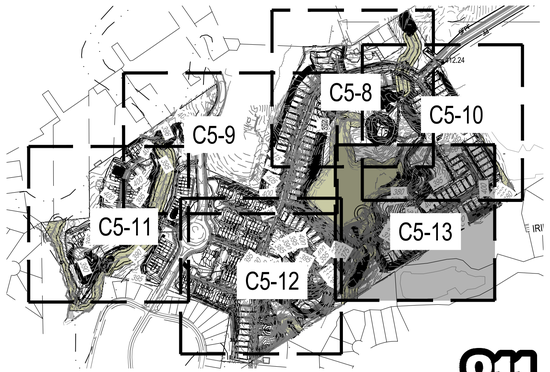

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SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
4	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
3	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
2	06/01/2023	INITIAL SUBMITTAL
1		

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 (6 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRY
10-12-23
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 10/02/2023
C5-13