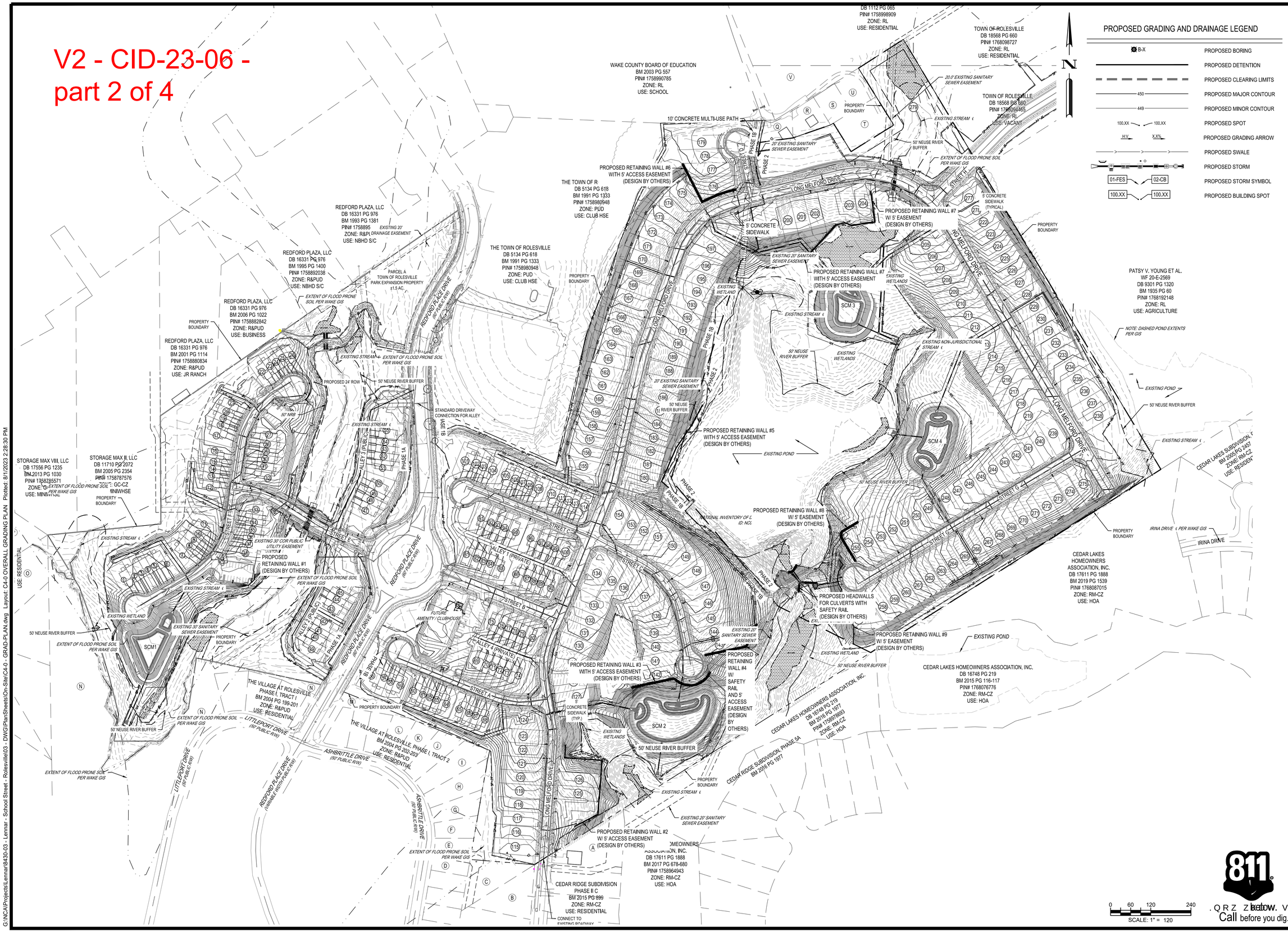
V2 - CID-23-06 - part 2 of 4



REV	DATE	DESCRIPTION
1	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

LENNAR CORPORATION
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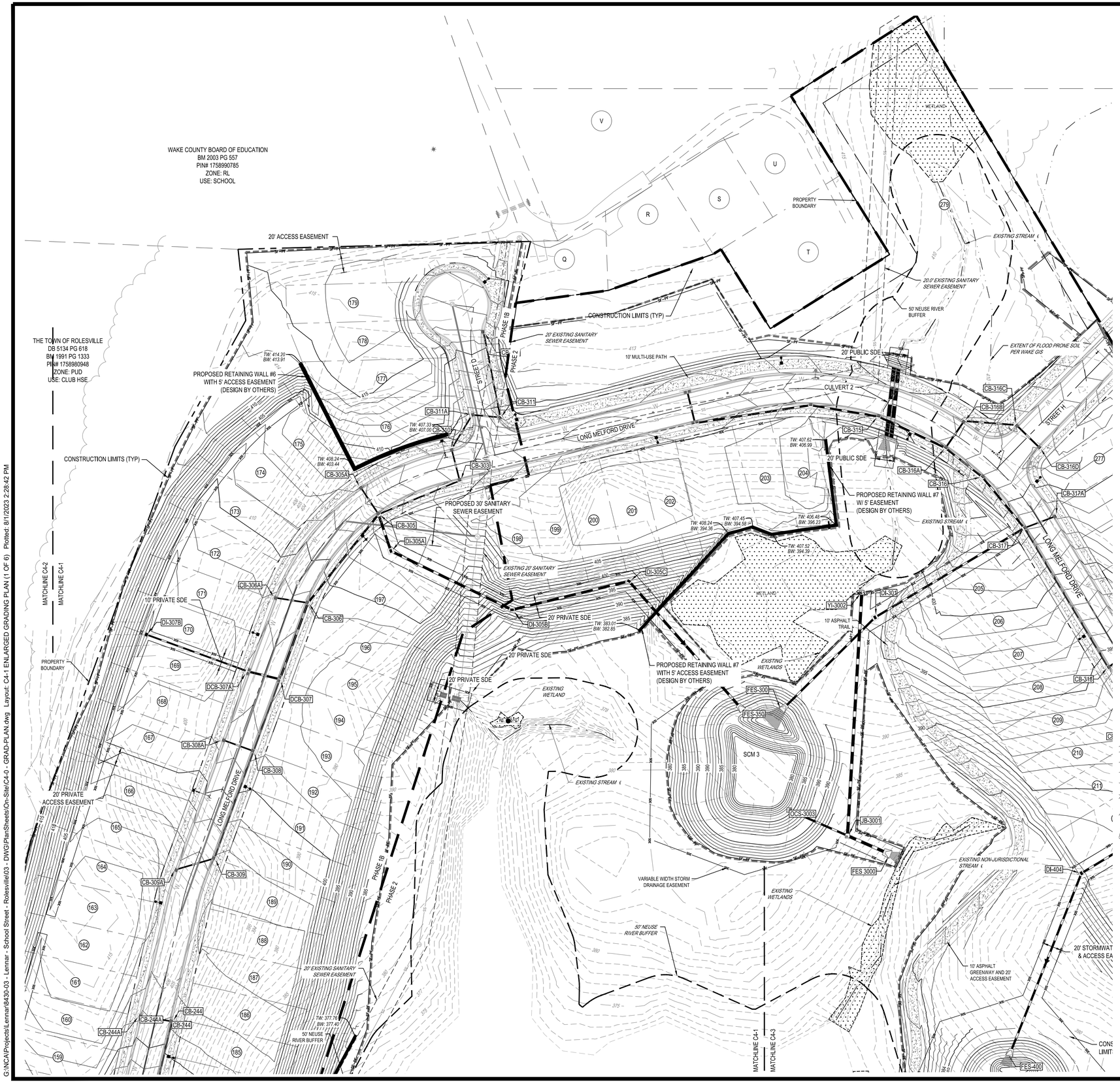
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL GRADING PLAN

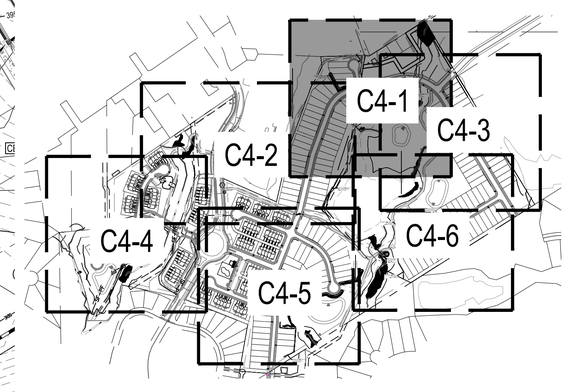
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-0



PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H:V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT



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

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

REV	DATE	DESCRIPTION
1	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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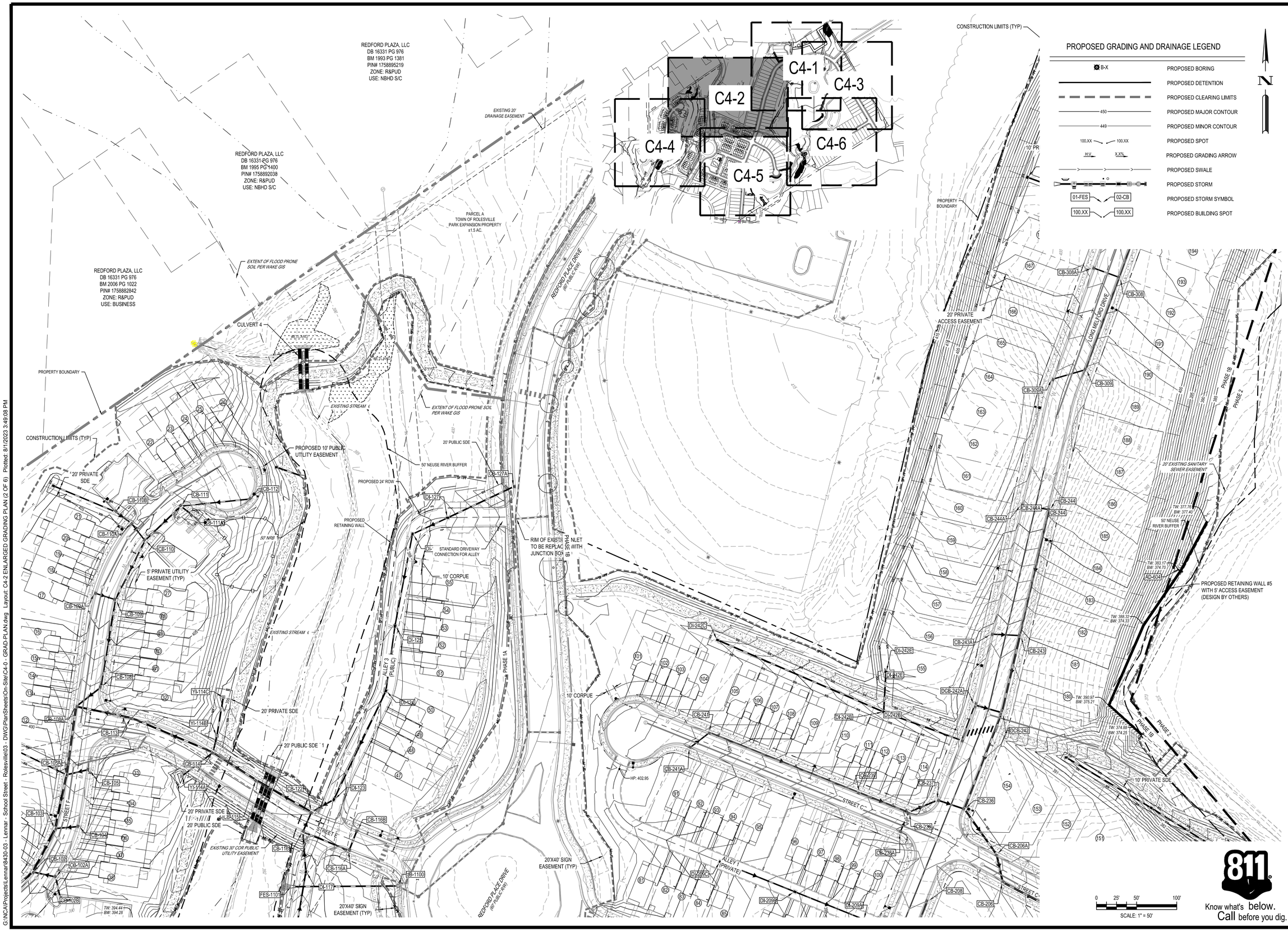
ENLARGED GRADING PLAN (1 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-1



REV	DATE	DESCRIPTION
1	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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ENLARGED GRADING PLAN (2 OF 6)

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

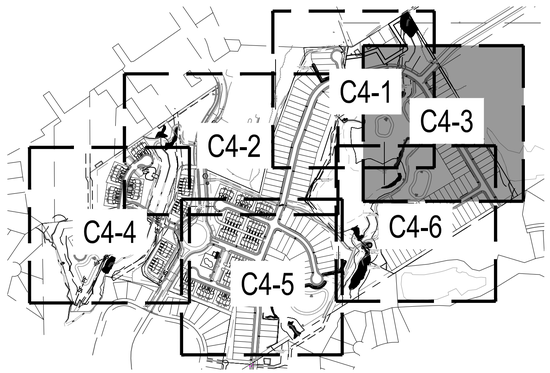
FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-2

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

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-2 ENLARGED GRADING PLAN (2 OF 6) Plotted: 8/1/2023 3:49:08 PM

PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H.V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT



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

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

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

DESIGNED BY: DF/CD
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ENLARGED GRADING PLAN (3 OF 6)

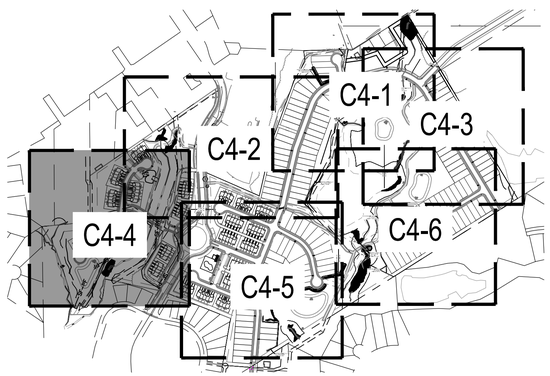
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
DEBRA M. FERM
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-3

G:\INCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4.0 - GRAD-PLAN.dwg Layout: C4-3 ENLARGED GRADING PLAN (3 OF 6) Plotted: 8/1/2023 2:29:08 PM

PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H:V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT



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

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

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REVIEWED BY: DF

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ENLARGED GRADING PLAN (4 OF 6)

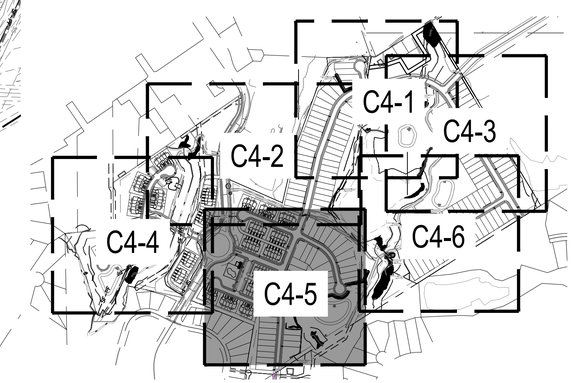
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERRI
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-4

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-4 ENLARGED GRADING PLAN (4 OF 6) Plotted: 8/1/2023 3:49:58 PM

PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H.V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT



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

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REV		
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

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ENLARGED GRADING PLAN (5 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-5

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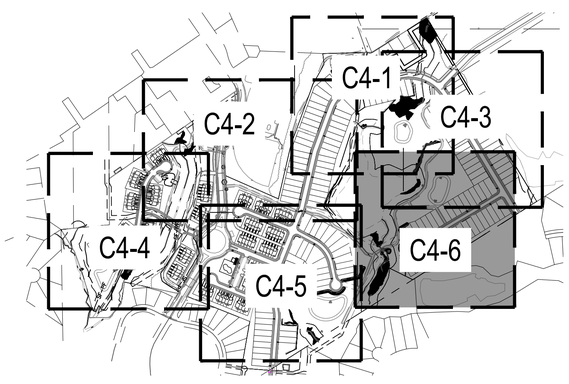
PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT



REV	DATE	
1		
2		
3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	06/01/2023	INITIAL SUBMITTAL

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DRAWN BY: DF/JWM
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ENLARGED GRADING PLAN (6 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-6

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SCM 1

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-101	393.56	30"	383.53 (NW)	383.53 (SW)	30"	106.48	0.50%	FES-100
CB-101A	394.54	30" 15"	383.67 (NE) 386.14 (NW)	383.67 (SE)	30"	27.02	0.50%	CB-101
CB-102	395.70	30" 18"	384.21 (NE) 385.54 (E)	384.21 (SW)	30"	107.87	0.50%	CB-101A
CB-102A	395.44	18"	388.13 (S)	385.82 (W)	18"	29.14	0.97%	CB-102
CB-102B	392.76			388.26 (N)	18"	26.13	0.51%	CB-102A
CB-103	397.54	18" 30"	392.36 (E) 384.51 (N)	384.51 (SW)	30"	60.86	0.50%	CB-102
CB-104	397.95			392.50 (W)	18"	28.91	0.50%	CB-103
CB-105	400.06			392.50 (W)	18"	28.26	2.00%	CB-105A
CB-105A	399.55	18" 30" 15"	391.93 (E) 384.87 (N) 390.94 (NW)	384.85 (S)	30"	68.39	0.50%	CB-103
CB-108	403.17	18"	396.21 (N)	396.11 (SW)	18"	39.10	0.54%	CB-108A
CB-108A	402.32	18" 24"	395.90 (NE) 398.30 (E)	385.80 (S)	30"	85.91	1.08%	CB-105A
CB-109	405.72	18" 15"	396.86 (NE) 400.04 (W)	396.76 (S)	18"	110.53	0.50%	CB-108
CB-109A	405.74			400.55 (E)	15"	27.01	1.88%	CB-109
CB-110	405.18	15" 18"	398.09 (NW) 398.64 (NE)	397.27 (SW)	18"	82.30	0.50%	CB-109
CB-110A	404.79	15"	398.33 (NW)	398.23 (SE)	15"	27.60	0.50%	CB-110
CB-110B	404.23	15"	398.55 (NW)	398.45 (SE)	15"	24.47	0.50%	CB-110A
CB-111	404.39	18" 15"	399.45 (SE) 399.31 (E)	399.11 (SW)	18"	61.93	0.75%	CB-110
CB-111A	404.35			399.56 (NW)	18"	17.58	0.66%	CB-111
CB-112	402.74			399.80 (W)	15"	87.16	0.56%	CB-111
CB-113	400.02	24"	386.65 (SE)	386.65 (W)	24"	70.28	0.50%	CB-108A
CB-114	397.21	24" 15" 18"	387.20 (SE) 387.70 (SW) 388.25 (N)	387.20 (NW)	24"	110.35	0.50%	CB-113

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-115	396.75	24"	387.51 (SE)	387.51 (NW)	24"	63.69	0.49%	CB-114
CB-116	397.79	18" 18"	388.26 (S) 388.88 (E)	388.26 (NE)	18"	27.01	0.50%	CB-122
CB-116A	397.97	18"	389.50 (N)	389.50 (W)	18"	62.06	1.00%	CB-116
CB-116B	397.97			391.50 (S)	18"	27.00	7.41%	CB-116A
CB-122	397.35	18" 18"	388.12 (SW) 389.50 (NE)	387.91 (NW)	24"	79.79	0.50%	CB-115
CB-127A	405.20			393.44 (SW)	18"	91.26	0.51%	DI-127
DI-101B	392.87	15"	386.77 (W)	386.77 (SE)	15"	125.38	0.50%	CB-101A
DI-101C	392.97			387.53 (E)	15"	152.82	0.50%	DI-101B
DI-105B	397.76	15"	391.67 (N)	391.57 (SE)	15"	125.12	0.50%	CB-105A
DI-105C	400.47			395.04 (S)	15"	87.32	3.85%	DI-105B
DI-110C	403.75			398.97 (SE)	15"	83.45	0.50%	CB-110B
DI-117	394.56	18"	388.51 (S)	388.51 (N)	18"	49.93	0.50%	CB-116
DI-118	392.94	18"	389.05 (SW)	388.94 (N)	18"	85.84	0.50%	DI-117
DI-119	392.52	15" 15"	389.58 (SW) 389.58 (SE)	389.48 (NE)	18"	86.04	0.50%	DI-118
DI-119A	393.08			390.14 (NW)	15"	112.51	0.50%	DI-119
DI-120	393.57	15"	390.20 (S)	390.10 (NE)	15"	104.03	0.50%	DI-119
DI-121	394.10			390.73 (N)	15"	45.07	1.17%	DI-120
DI-123	395.64	18"	389.87 (NE)	389.77 (SW)	18"	31.84	0.85%	CB-122
DI-124	397.17	15"	390.85 (N)	390.75 (SW)	18"	150.09	0.59%	DI-123
DI-125	397.95	15"	391.87 (N)	391.77 (S)	15"	81.24	1.13%	DI-124
DI-126	399.32	15"	392.55 (NE)	392.45 (S)	15"	116.84	0.50%	DI-125

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-115 TO CB-122	24"	79.79'	0.50%	RCP
CB-122 TO DI-123	18"	31.84'	0.85%	RCP
DI-123 TO DI-124	18"	150.09'	0.59%	RCP
DI-124 TO DI-125	15"	81.24'	1.13%	RCP
DI-125 TO DI-126	15"	116.84'	0.50%	RCP
DI-126 TO DI-127	15"	48.20'	0.66%	RCP
CB-122 TO CB-116	18"	27.01'	0.50%	RCP
CB-116 TO DI-117	18"	49.93'	0.50%	RCP
DI-117 TO DI-118	18"	85.84'	0.50%	RCP
DI-118 TO DI-119	18"	86.04'	0.50%	RCP
DI-119 TO DI-120	15"	104.03'	0.50%	RCP
DI-120 TO DI-121	15"	45.07'	1.17%	RCP
CB-114 TO CB-115	24"	63.69'	0.49%	RCP
CB-108 TO CB-109	18"	110.53'	0.50%	RCP
CB-109 TO CB-110	18"	82.30'	0.50%	RCP
CB-111 TO CB-112	15"	87.16'	0.56%	RCP
CB-110 TO CB-111	18"	61.93'	0.75%	RCP
CB-110A TO CB-110B	15"	24.47'	0.50%	RCP
CB-109 TO CB-109A	15"	27.01'	1.88%	RCP
CB-108A TO CB-108	18"	39.10'	0.54%	RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-108A TO CB-113	24"	70.28'	0.50%	RCP
CB-105A TO CB-105	18"	28.26'	2.00%	RCP
CB-103 TO CB-105A	30"	68.39'	0.50%	RCP
CB-103 TO CB-104	18"	28.91'	0.50%	RCP
CB-102 TO CB-103	30"	60.86'	0.50%	RCP
CB-101A TO CB-102	30"	107.87'	0.50%	RCP
FES-100 TO CB-101	30"	106.48'	0.50%	RCP
CB-110 TO CB-110A	15"	27.60'	0.50%	RCP
CB-102 TO CB-102A	18"	29.14'	0.97%	RCP
CB-113 TO CB-114	24"	110.35'	0.50%	RCP
CB-102A TO CB-102B	18"	26.13'	0.51%	RCP
CB-111 TO CB-111A	18"	17.58'	0.66%	18" RCP
CB-105A TO CB-108A	30"	85.91'	1.08%	RCP
CB-114 TO YI-114A	15"	48.91'	2.66%	RCP
CB-114 TO YI-114B	18"	21.26'	2.35%	RCP
CB-101 TO CB-101A	30"	27.02'	0.50%	RCP
YI-114B TO YI-114C	18"	48.70'	4.83%	RCP
DI-127 TO CB-127A	18"	91.26'	0.51%	RCP
CB-116 TO CB-116A	18"	62.06'	1.00%	RCP
CB-116A TO CB-116B	18"	27.00'	7.41%	RCP

SCM 2

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-200A	379.46	30"	353.32 (N)	353.22 (S)	30"	22.49	5.00%	DI-200A
CB-201	380.71	24" 18"	371.00 (N) 358.19 (NE)	357.10 (S)	30"	76.37	4.95%	CB-200A
CB-201A	381.18	18"	359.00 (E)	358.90 (SW)	18"	29.12	2.45%	CB-201
CB-202	383.23	24" 15"	375.27 (N) 379.07 (NE)	375.17 (S)	24"	83.38	5.00%	CB-201
CB-202A	383.52			379.50 (SW)	15"	28.49	1.50%	CB-202
CB-203	385.66	24" 15"	378.60 (NW) 381.74 (NE)	378.60 (S)	24"	76.88	4.33%	CB-202
CB-203A	385.73			381.94 (SW)	15"	27.34	0.72%	CB-203
CB-204	388.36	24" 15"	382.56 (NW) 383.51 (E)	382.46 (SE)	24"	85.79	4.50%	CB-203
CB-204A	387.96			383.81 (W)	15"	30.36	1.00%	CB-204
CB-205	389.49	24"	384.54 (NW)	384.54 (SE)	24"	34.95	5.68%	CB-204
CB-206	391.93	24"	385.07 (N)	385.07 (SE)	24"	81.80	0.65%	CB-205
CB-206A	392.62	24"	385.73 (NW)	385.53 (S)	24"	35.51	1.30%	CB-206
CB-208	393.39			387.54 (S)	18"	78.86	2.70%	CB-209
CB-209	391.87	15" 18"	386.66 (NW) 385.41 (N)	385.41 (S)	24"	61.65	1.83%	CB-210
CB-210	390.68	24" 24"	384.85 (W) 384.28 (N)	384.28 (SW)	24"	77.88	2.41%	CB-211
CB-211	389.23	24"	382.40 (NE)	382.30 (S)	24"	134.60	2.15%	CB-213
CB-213	386.49	24"	379.40 (N)	379.40 (S)	24"	115.30	2.27%	CB-217A
CB-214	385.90	15"	379.57 (N)	379.57 (SW)	18"	44.85	1.05%	CB-215
CB-214A	387.00	15"	380.74 (NW)	380.74 (S)	15"	59.41	1.97%	CB-214
CB-215	386.02	18"	379.10 (NE)	374.99 (S)	24"	27.00	0.50%	CB-216

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-216	385.99	24" 18"	374.85 (N) 378.86 (W)	374.75 (SE)	24"	48.64	0.51%	CB-217
CB-217	384.33	24" 24"	373.75 (S) 374.50 (NW)	373.50 (E)	30"	27.03	0.45%	CB-217A
CB-217A	384.35	30" 24"	373.38 (W) 376.79 (N)	373.28 (E)	30"	146.60	7.69%	DI-217B
CB-218	384.00	24" 15"	374.15 (E) 376.25 (S)	374.05 (N)	24"	45.61	0.66%	CB-217
CB-218A	384.04			374.45 (W)	24"	26.97	1.11%	CB-218
CB-219	387.45	15" 15"	383.13 (E) 378.02 (S)	377.92 (N)	15"	167.78	1.00%	CB-218
CB-219A	387.32			383.25 (W)	15"	27.34	0.44%	CB-219
CB-220	391.61	15"	378.77 (E)	378.67 (N)	15"	130.86	0.50%	CB-219
CB-220A	391.63	15"	381.40 (E)	378.90 (W)	15"	26.99	0.50%	CB-220
CB-221	388.43			384.56 (S)	15"	27.09	5.49%	CB-221A
CB-221A	388.50	15" 18" 18"	383.07 (N) 383.07 (W) 380.12 (S)	379.69 (E)	18"	89.27	0.92%	CB-216
CB-222	390.49	18"	385.49 (W)	385.49 (E)	18"	69.27	3.50%	CB-221A
CB-223	392.65	15"	388.20 (N)	388.10 (SW)	15"	27.01	0.56%	CB-226
CB-224	393.99			391.05 (S)	15"	24.78	11.50%	CB-223
CB-226	392.67	15" 15"	387.95 (NE) 387.74 (W)	387.74 (E)	18"	74.03	3.04%	CB-222
CB-227	396.92			392.61 (E)	15"	146.68	3.32%	CB-226
CB-229	390.29	18"	385.25 (W)	385.15 (E)	24"	33.52	0.89%	CB-210
CB-230	390.99	15" 18"	386.37 (S) 386.47 (W)	386.37 (E)	18"	42.25	2.65%	CB-229
CB-230A	391.21			387.02 (N)	15"	34.14	1.90%	CB-230
CB-231	394.55	18"	389.96 (W)	389.86 (E)	18"	82.19	4.12%	CB-230

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-232	396.74	15" 15"	392.45 (S) 392.64 (W)	392.45 (E)	18"	75.27	3.31%	CB-231
CB-232A	396.89	15"	392.83 (S)	392.73 (N)	15"	34.30	0.82%	CB-232
CB-232B	396.04			393.04 (N)	15"	26.33	0.80%	CB-232A
CB-234	397.49	15"	393.42 (S)	393.42 (E)	15"	78.97	0.99%	CB-232
CB-234A	397.84			393.70 (N)	15"	33.60	0.83%	CB-234
CB-236	394.65	18" 24"	387.30 (W) 386.75 (N)	386.65 (SE)	24"	69.24	1.32%	CB-206A
CB-237	394.66	18"	389.80 (SW)	387.70 (E)	18"	35.06	1.14%	CB-236
CB-238	395.21	18" 15"	390.80 (W) 391.05 (SW)	390.80 (NE)	18"	39.35	2.54%	CB-237
CB-238A	395.24			391.17 (NE)	15"	27.01	0.45%	CB-238
CB-239	396.64	15"	392.37 (W)	392.12 (E)	18"	66.89	1.97%	CB-238
CB-241	400.86	15"	396.16 (SW)	396.16 (E)	15"	200.10	1.89%	CB-239
CB-241A	401.10			396.41 (NE)	15"	31.34	0.80%	CB-241
CB-242B	393.22	18"	389.85 (W)	389.75 (N)	18"	47.15	0.64%	DCB-242A
CB-243	394.79	15" 15"	390.07 (W) 390.90 (N)	389.00 (S)	24"	98.61	0.69%	DCB-242
CB-243A	394.63			390.25 (E)	15"	35.61	0.50%	CB-243
CB-244	401.24	15"	396.57 (W)	396.47 (S)	15"	161.01	3.46%	CB-243
CB-244A	401.17			396.75 (E)	15"	35.07	0.50%	CB-244
DCB-242	393.55	18" 24"	389.00 (W) 388.32 (N)	388.22 (S)	24"	128.87	1.14%	CB-236
DCB-242A	393.54	18"	389.45 (S)	389.35 (E)	18"	35.00	1.00%	DCB-242
DI-200A	362.46	30"	352.10 (N)	352.00 (S)	30"	58.92	0.85%	FES-200

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
DI-201B	378.26	18"	360.25 (NE)	360.15 (W)	18"	137.00	0.84%	CB-201A
DI-201C	368.00	18"	360.82 (N)	360.72 (SW)	18"	62.68	0.75%	DI-201B
DI-201D	366.00	18"	361.50 (NW)	361.40 (S)	18"	115.62	0.50%	DI-201C
DI-201E	376.00	18"	370.50 (NW)	370.40 (SE)	18"	162.75	5.47%	DI-201D
DI-201F	381.00	18"	375.50 (NW)	375.40 (SE)	18"	127.04	3.86%	DI-201E
DI-201G	387.00			381.50 (SE)	18"	123.25	4.87%	DI-201F
DI-209A	393.28	15"	388.58 (W)	388.48 (SE)	15"	69.90	2.60%	CB-209
DI-209B	396.15	15"	391.95 (W)	391.85 (E)	15"	93.80	3.49%	DI-209A
DI-209C	398.35			394.10 (E)	15"	100.00	2.15%	DI-209B
DI-212A	388.14	15"	383.53 (W)	383.53 (SE)	15"	34.75	8.03%	CB-214A
DI-212B	390.96	15"	386.98 (W)	386.98 (E)	15"	68.73	5.02%	DI-212A
DI-213C	394.59			390.75 (E)	15"	88.66	4.25%	DI-212B
DI-217B	372.55	30"	362.00 (W)	355.00 (E)	30"	91.63	3.82%	FES-250
DI-220B	385.65			381.00 (W)	15"	79.57	-0.50%	CB-220A
DI-221B	383.71	15"	380.60 (W)	380.50 (N)	18"	75.43	0.51%	CB-221A
DI-221C	388.87	15"	385.24 (W)	385.14 (E)	15"	68.09	6.67%	DI-221B
DI-221D	392.33	15"	388.08 (W)	387.98 (E)	15"	114.04	2.40%	DI-221C
DI-221E	396.79			392.54 (E)	15"	140.31	3.18%	DI-221D
DI-242B	397.15	18" 18"	391.78 (N) 391.78 (NW)	391.68 (E)	18"	103.44	1.77%	CB-242B
DI-242C	402.00			398.50 (SE)	18"	225.44	2.98%	DI-242B

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-115 TO CB-122	24"	79.79'	0.50%	RCP
CB-122 TO DI-123	18"	31.84'	0.85%	RCP
DI-123 TO DI-124	18"	150.09'	0.59%	RCP
DI-124 TO DI-125	15"	81.24'	1.13%	RCP
DI-125 TO DI-126	15"	116.84'	0.50%	RCP
DI-126 TO DI-127	15"	48.20'	0.66%	RCP
CB-122 TO CB-116	18"	27.01'	0.50%	RCP
CB-116 TO DI-117	18"	49.93'	0.50%	RCP
DI-117 TO DI-118	18"	85.84'	0.50%	RCP
DI-118 TO DI-119	18"	86.04'	0.50%	RCP
DI-119 TO DI-120	15"	104.03'	0.50%	RCP
DI-120 TO DI-121	15"	45.07'	1.17%	RCP
CB-114 TO CB-115	24"	63.69'	0.49%	RCP
CB-108 TO CB-109	18"	110.53'	0.50%	RCP
CB-109 TO CB-110	18"	82.30'	0.50%	RCP
CB-111 TO CB-112	15"	87.16'	0.56%	RCP
CB-110 TO CB-111	18"	61.93'	0.75%	RCP
CB-110A TO CB-110B	15"	24.47'	0.50%	RCP
CB-109 TO CB-109A	15"	27.01'	1.88%	RCP
CB-108A TO CB-108	18"	39.10'	0.54%	RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-108A TO CB-113	24"	70.28'	0.50%	RCP
CB-105A TO CB-105	18"	28.26'	2.00%	RCP
CB-103 TO CB-105A	30"	68.39'	0.50%	RCP
CB-103 TO CB-104	18"	28.91'	0.50%	RCP
CB-102 TO CB-103	30"	60.86'	0.50%	RCP
CB-101A TO CB-102	30"	107.87'	0.50%	RCP
FES-100 TO CB-101	30"	106.48'	0.50%	RCP
CB-110 TO CB-110A	15"	27.60'	0.50%	RCP
CB-102 TO CB-102A	18"	29.14'	0.97%	RCP
CB-113 TO CB-114	24"	110.35'	0.50%	RCP
CB-102A TO CB-102B	18"	26.13'	0.51%	RCP
CB-111 TO CB-111A	18"	17.58'	0.66%	18" RCP
CB-105A TO CB-108A	30"	85.91'	1.08%	RCP
CB-114 TO YI-114A	15"	48.91'	2.66%	RCP
CB-114 TO YI-114B	18"	21.26'	2.35%	RCP
CB-101 TO CB-101A	30"	27.02'	0.50%	RCP
YI-114B TO YI-114C	18"	48.70'	4.83%	RCP
DI-127 TO CB-127A	18"	91.26'	0.51%	RCP
CB-116 TO CB-116A	18"	62.06'	1.00%	RCP
CB-116A TO CB-116B	18"	27.00'	7.41%	RCP

STORM STRUCTURE NOTES:

- FES = FLARED END SECTION
- DI = GRATED YARD INLET
- CB = CATCH BASIN
- DCB = DOUBLE CATCH BASIN
- TCB = TRIPLE CATCH BASIN
- HW = HEADWALL

1. ALL YARD INLETS SHALL HAVE 4'X4' INSIDE DIMENSION UNLESS OTHERWISE NOTED.
2. RIM ELEVATION GIVEN FOR DI IS FLOW LINE.
3. RIM ELEVATION GIVEN FOR YI IS FLOW LINE, NOT TOP OF SLAB.
4. RIM ELEVATION GIVEN FOR CB IS TOP OF CURB, NOT FLOW LINE.
5. PIPE LENGTH INCLUDES FES LENGTH.

RIP RAP DISSIPATOR SUMMARY TABLE

OUTLET	MEDIAN STONE DIAMETER (D_{50})	MINIMUM APRON LENGTH	WIDTH AT PIPE	WIDTH AT END	MAX STONE DIAMETER	APRON THICKNESS
FES100	0.60 FT	19.00 FT	9.00 FT	22.00 FT	0.90 FT	1.35 FT
FES200	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES300	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES350	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES400	0.55 FT	11.00 FT	6.00 FT	13.00 FT	0.83 FT	1.24 FT
FES410	0.85 FT	16.00 FT	7.50 FT	18.50 FT	1.28 FT	1.91 FT

Know what's below.
Call before you dig.

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	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.BGENC.COM
NC LICENSE #C-4397

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

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

STORM SEWER TABLE (1 OF 2)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-7

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-7 STORM SEWER TABLE (1 OF 2) Plotted: 8/1/2023 11:37:41 AM

SCM 3

STRUCTURE DATA TABLE								
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-303	404.45	15"	399.00 (N)	399.00 (SW)	15"	93.93	1.28%	CB-305
CB-305	402.17	15" 15" 24"	397.80 (NE) 394.82 (NW) 389.65 (SW)	389.15 (S)	30"	41.39	0.51%	DI-305A
CB-305A	402.20			395.18 (SE)	15"	35.01	1.02%	CB-305
CB-306	399.02	15" 24"	391.01 (W) 390.36 (S)	390.26 (NE)	24"	121.17	0.50%	CB-305
CB-306A	398.86			391.19 (E)	15"	35.80	0.50%	CB-306
CB-308	398.74	15" 15"	392.06 (W) 394.90 (S)	391.96 (N)	15"	81.91	0.50%	DCB-307
CB-308A	398.74			392.23 (E)	15"	35.00	0.50%	CB-308
CB-309	402.09	15"	398.56 (W)	398.56 (N)	15"	122.19	3.00%	CB-308
CB-309A	402.55			398.78 (E)	15"	43.43	0.50%	CB-309
CB-310	404.44	15"	399.30 (NE)	399.20 (S)	15"	35.00	0.57%	CB-303
CB-311	408.09	15" 15"	400.00 (N) 399.86 (W)					
CB-311A	406.60			400.00 (E) 399.76 (SW)	15" 15"	30.24 42.62	0.45% 1.08%	CB-311 CB-310
CB-312	412.25			403.75 (S)	15"	93.27	4.02%	CB-311
CB-315	410.00	24"	397.73 (W)	397.63 (SE)	24"	79.25	0.79%	CB-316A
CB-315A	408.76	24"	398.20 (W)	398.10 (E)	24"	73.50	0.50%	CB-315
CB-316	407.33	24"	396.00 (NW)	396.00 (SE)	24"	70.79	2.01%	CB-317
CB-316A	409.11	18" 24"	399.62 (NE) 397.00 (NW)	397.00 (SE)	24"	50.05	2.00%	CB-316
CB-316B	408.83	18"	400.00 (E)	399.80 (SW)	18"	35.01	0.50%	CB-316A
CB-316C	406.43	18"	401.00 (SE)	400.80 (W)	18"	56.05	1.43%	CB-316B
CB-316D	406.43			401.43 (NW)	18"	35.00	1.23%	CB-316C

STRUCTURE DATA TABLE								
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-317	403.52	15" 15" 24"	398.82 (E) 389.20 (SE) 394.58 (NW)	388.46 (SW)	24"	186.13	1.05%	DI-301
CB-317A	403.17			399.00 (W)	15"	35.64	0.49%	CB-317
CB-318	394.36	15"	390.00 (NE)	390.00 (NW)	15"	173.95	0.46%	CB-317
CB-318A	394.52			390.20 (SW)	15"	35.14	0.57%	CB-318
DCB-307	397.92	15" 24"	391.55 (S) 390.90 (W)	390.80 (N)	24"	87.03	0.50%	CB-306
DCB-307A	397.92	18"	392.80 (W)	391.25 (E)	24"	35.22	1.00%	DCB-307
DCB-314	406.65	18"	399.32 (N)	398.83 (E)	24"	125.14	0.50%	CB-315A
DCB-314A	406.65			399.50 (S)	18"	35.00	0.50%	DCB-314
DI-301	395.35	24"	386.50 (NE)	386.50 (SW)	24"	140.88	2.01%	FES-300
DI-305A	401.88	30"	388.94 (N)	388.94 (SE)	30"	144.05	0.58%	DI-305B
DI-305B	392.39	30"	388.10 (NW)	388.10 (E)	30"	128.74	2.58%	DI-305C
DI-305C	396.88	30"	384.78 (W)	384.78 (SE)	30"	184.36	0.60%	FES-350
DI-307B	396.93			393.43 (E)	18"	115.70	0.55%	DCB-307A
FES-300	386.96	24"	383.67 (NE)					
FES-350	386.96	30"	383.67 (NW)					
FES 3000	383.46	36"	378.00 (NW)					
JB-3001	383.43	24" 36"	378.43 (NW) 378.43 (N)	378.43 (SE)	36"	50.33	0.85%	FES 3000
OCS-3003	387.80			379.00 (SE)	24"	67.97	0.85%	JB-3001
YI-3002	396.14			380.50 (S)	36"	260.57	0.79%	JB-3001

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
FES-300 TO DI-301	24"	140.88'	2.01%	RCP
DI-301 TO CB-317	24"	186.13'	1.05%	RCP
CB-317 TO CB-317A	15"	35.64'	0.49%	RCP
CB-317 TO CB-318	15"	173.95'	0.46%	RCP
CB-318 TO CB-318A	15"	35.14'	0.57%	RCP
CB-317 TO CB-316	24"	70.79'	2.01%	RCP
CB-316A TO CB-315	24"	79.25'	0.79%	RCP
CB-316 TO CB-316A	24"	50.05'	2.00%	RCP
CB-311 TO CB-312	15"	93.27'	4.02%	RCP
CB-310 TO CB-311A	15"	42.62'	1.08%	RCP
CB-303 TO CB-310	15"	35.00'	0.57%	RCP
CB-315A TO DCB-314	24"	125.14'	0.50%	RCP
CB-308 TO CB-309	15"	122.19'	3.00%	RCP
DCB-307 TO CB-308	15"	81.91'	0.50%	RCP
CB-309 TO CB-309A	15"	43.43'	0.50%	RCP
CB-308 TO CB-308A	15"	35.00'	0.50%	RCP
DCB-307 TO DCB-307A	24"	35.22'	1.00%	RCP
CB-306 TO DCB-307	24"	87.03'	0.50%	RCP
CB-305 TO CB-306	24"	121.17'	0.50%	RCP
CB-305 TO CB-303	15"	93.93'	1.28%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-306 TO CB-306A	15"	35.80'	0.50%	RCP
CB-305 TO CB-305A	15"	35.01'	1.02%	RCP
CB-311A TO CB-311	15"	30.24'	0.45%	RCP
DCB-307A TO DI-307B	18"	115.70'	0.55%	RCP
DCB-314 TO DCB-314A	18"	35.00'	0.50%	RCP
CB-316A TO CB-316B	18"	35.01'	0.50%	RCP
CB-316B TO CB-316C	18"	56.05'	1.43%	RCP
CB-316C TO CB-316D	18"	35.00'	1.23%	RCP
DI-305A TO CB-305	30"	41.39'	0.51%	RCP
DI-305B TO DI-305A	30"	144.05'	0.58%	RCP
FES-350 TO DI-305C	30"	184.36'	0.60%	RCP
DI-305C TO DI-305B	30"	128.74'	2.58%	RCP
JB-3001 TO OCS-3003	24"	67.97'	0.85%	RCP
FES 3000 TO JB-3001	36"	50.33'	0.85%	RCP
JB-3001 TO YI-3002	36"	260.57'	0.79%	RCP
CB-315 TO CB-315A	24"	73.50'	0.50%	RCP

SCM 4

STRUCTURE DATA TABLE								
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-405	390.00	15" 18" 15"	385.28 (SE) 384.78 (NE) 384.60 (NW)	383.84 (SW)	24"	137.50	0.87%	DI-404
CB-405A	390.00	18"	385.05 (NW)	384.95 (SW)	18"	35.00	0.50%	CB-405
CB-405B	390.03	18"	385.22 (NE)	385.12 (SE)	18"	13.25	0.50%	CB-405A
CB-406	391.21	15"	387.91 (NE)	386.16 (SE)	15"	91.00	1.72%	CB-405
CB-406A	391.28			388.19 (SW)	15"	35.08	0.80%	CB-406
CB-407	391.22	15"	386.18 (SE)	385.98 (NW)	15"	93.29	0.75%	CB-405
CB-408	393.35	15" 15"	386.70 (SE) 386.70 (NE)	386.60 (NW)	15"	79.39	0.53%	CB-407
CB-408A	392.81			387.00 (SW)	15"	40.36	0.74%	CB-408
CB-409	395.60	15"	388.00 (E)	388.00 (NW)	15"	84.16	1.54%	CB-408
CB-409A	396.02			391.00 (W)	15"	39.86	7.53%	CB-409
CB-412A	379.71			376.50 (W)	18"	38.44	32.52%	DI-412C
CB-413	385.74	15"	381.10 (S)	381.00 (NE)	18"	133.49	0.67%	CB-414
CB-413A	384.76			381.30 (N)	15"	34.00	0.59%	CB-413
CB-414	391.82	18" 24" 18"	380.10 (SW) 382.29 (NE) 382.50 (SE)	380.00 (NW)	30"	158.96	0.62%	DI-414A
CB-414A	391.45	18"	382.82 (NE)	382.72 (NW)	18"	25.50	0.86%	CB-414
CB-414B	391.87	18"	382.87 (SE)	382.87 (SW)	18"	9.96	0.50%	CB-414A
CB-415	395.52	18" 15"	383.29 (NE) 387.87 (SE)	382.79 (SW)	24"	133.00	0.38%	CB-414
CB-415A	395.52			388.01 (NW)	15"	27.02	0.50%	CB-415
CB-417	398.40	15" 18"	393.54 (SE) 384.17 (NE)	384.07 (SW)	18"	123.74	0.63%	CB-415
CB-417A	398.40			393.68 (NW)	15"	27.00	0.50%	CB-417

STRUCTURE DATA TABLE								
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-418	398.35	18"	384.66 (NE)	384.56 (SW)	18"	78.01	0.50%	CB-417
CB-419	396.58	15" 15"	385.16 (SE) 385.16 (N)	385.06 (SW)	18"	80.71	0.50%	CB-418
CB-419A	396.78	15"	391.37 (E)	391.37 (S)	15"	47.55	13.06%	CB-419
CB-419B	396.72			391.75 (W)	15"	35.77	1.06%	CB-419A
CB-420	396.57	15"	385.40 (SE)	385.30 (NW)	15"	27.00	0.50%	CB-419
CB-421	394.78	15"	385.74 (SE)	385.64 (NW)	15"	47.08	0.50%	CB-420
CB-422	392.33	15" 15"	386.41 (E) 387.50 (SW)	386.31 (NW)	15"	81.60	0.69%	CB-421
CB-422A	389.96			386.59 (W)	15"	38.76	0.45%	CB-422
DI-404	387.70	24"	382.65 (NE)	382.55 (S)	24"	210.11	0.50%	FES-400
DI-405C	390.89	18"	385.90 (SE)	385.80 (SW)	18"	115.98	0.50%	CB-405B
DI-405D	392.25			388.07 (NW)	18"	127.09	1.71%	DI-405C
DI-411	380.22			366.00 (SW)	18"	49.80	10.04%	DI-412B
DI-412B	368.06	18"	361.00 (NE)	360.90 (S)	24"	106.33	0.85%	DI-412C
DI-412C	363.75	24" 18"	360.00 (N) 364.00 (E)	359.80 (W)	24"	40.27	1.24%	HW-500
DI-414A	387.43	30"	379.01 (SE)	378.91 (N)	30"	21.13	0.90%	FES-410
DI-414C	390.86	15" 15"	384.26 (NE) 383.62 (SW)	383.52 (NW)	18"	130.14	0.50%	CB-414B
DI-414D	390.05			385.80 (SW)	15"	69.44	2.21%	DI-414C
DI-414E	388.92			384.12 (NE)	15"	100.97	0.50%	DI-414C
DI-422B	393.40			389.15 (NE)	15"	25.29	6.52%	CB-422
FES-400	384.25	24"	381.50 (N)					

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-414 TO CB-413	18"	133.49'	0.67%	RCP
CB-414 TO CB-415	24"	133.00'	0.38%	RCP
CB-413 TO CB-413A	15"	34.00'	0.59%	RCP
CB-414 TO CB-414A	18"	25.50'	0.86%	RCP
CB-415 TO CB-415A	15"	27.02'	0.50%	RCP
FES-400 TO DI-404	24"	210.11'	0.50%	RCP
DI-404 TO CB-405	24"	137.50'	0.87%	RCP
CB-405 TO CB-407	15"	93.29'	0.75%	RCP
CB-405 TO CB-406	15"	91.00'	1.72%	RCP
CB-406 TO CB-406A	15"	35.08'	0.80%	RCP
CB-405 TO CB-405A	18"	35.00'	0.50%	RCP
CB-421 TO CB-422	15"	81.60'	0.69%	RCP
CB-420 TO CB-421	15"	47.08'	0.50%	RCP
CB-419 TO CB-420	15"	27.00'	0.50%	RCP
CB-418 TO CB-419	18"	80.71'	0.50%	RCP
CB-419 TO CB-419A	15"	47.55'	13.06%	RCP
CB-419A TO CB-419B	15"	35.77'	1.06%	RCP
CB-408 TO CB-409	15"	84.16'	1.54%	RCP
CB-409 TO CB-409A	15"	39.86'	7.53%	RCP
CB-408 TO CB-408A	15"	40.36'	0.74%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-407 TO CB-408	15"	79.39'	0.53%	RCP
CB-417 TO CB-418	18"	78.01'	0.50%	RCP
CB-415 TO CB-417	18"	123.74'	0.63%	RCP
CB-417 TO CB-417A	15"	27.00'	0.50%	RCP
DI-414A TO CB-414	30"	158.96'	0.62%	RCP
DI-412B TO DI-411	18"	49.80'	10.04%	RCP
FES-410 TO DI-414A	30"	21.13'	0.90%	RCP
DI-412C TO CB-412A	18"	38.44'	32.52%	RCP
DI-412C TO DI-412B	24"	106.33'	0.85%	RCP
CB-422 TO CB-422A	15"	38.76'	0.45%	RCP
CB-405B TO DI-405C	18"	115.98'	0.50%	RCP
CB-405A TO CB-405B	18"	13.25'	0.50%	RCP
DI-405C TO DI-405D	18"	127.09'	1.71%	RCP
CB-414B TO DI-414C	18"	130.14'	0.50%	RCP
CB-414A TO CB-414B	18"	9.96'	0.50%	RCP
HW-500 TO DI-412C	24"	40.27'	1.24%	RCP
CB-422 TO DI-422B	15"	25.29'	6.52%	RCP
DI-414C TO DI-414D	15"	69.44'	2.21%	RCP
DI-414C TO DI-414E	15"	100.97'	0.50%	RCP

STORM STRUCTURE NOTES:

- FES = FLARED END SECTION
- DI = GRATED YARD INLET
- CB = CATCH BASIN
- DCB = DOUBLE CATCH BASIN
- TCB = TRIPLE CATCH BASIN
- HW = HEADWALL

1. ALL YARD INLETS SHALL HAVE 4'X4' INSIDE DIMENSION UNLESS OTHERWISE NOTED.
2. RIM ELEVATION GIVEN FOR DI IS FLOW LINE.
3. RIM ELEVATION GIVEN FOR YI IS FLOW LINE, NOT TOP OF SLAB.
4. RIM ELEVATION GIVEN FOR CB IS TOP OF CURB, NOT FLOW LINE.
5. PIPE LENGTH INCLUDES FES LENGTH.

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
1	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

STORM SEWER TABLE (2 OF 2)

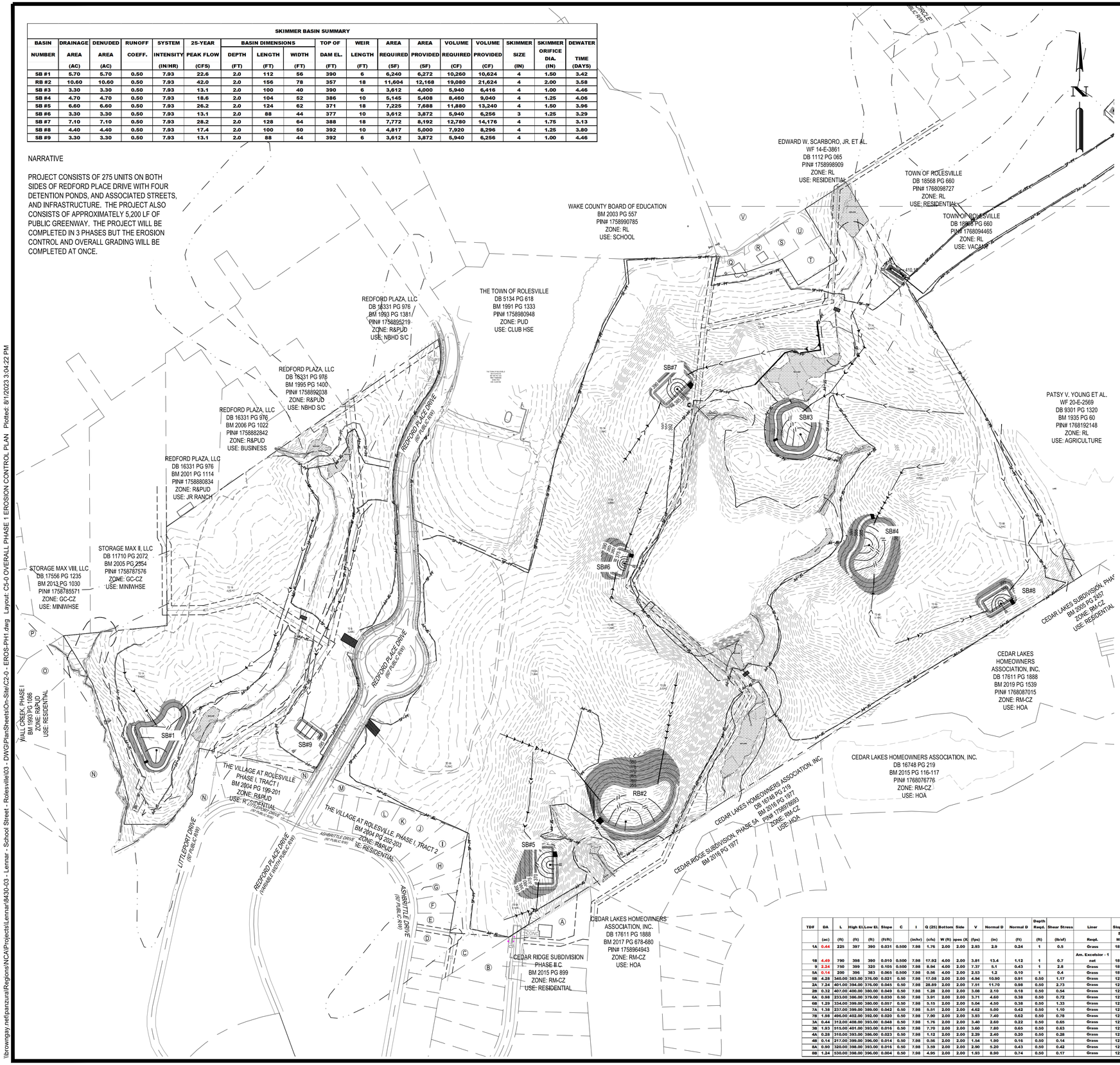
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERN
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C4-8

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
RB #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
SB #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

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.



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
- PF — TEMP TREE PROTECTION FENCE
- SF PF — TEMP SILT / TREE PROTECTION FENCE
- SOF 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.

TD#	DA	L	High El.	Low El.	Slope	C	I	Q (25)	Bottom	Side	V	Normal D	Normal D	Depth Requ.	Shear Stress	Liner	Slope Drain Size & Material	Check Dam Reqd.	# Check Dams
	(ac)	(ft)	(ft)	(ft)	(ft/ft)		(in/hr)	(cfs)	W (ft)	ipes (X	(fps)	(in)	(ft)	(ft)	(lb/sf)	Reqd.		Sp. (ft)	
1A	0.44	225	397	390	0.031	0.500	7.98	1.76	2.00	2.00	2.93	2.9	0.24	1	0.5	Grass	18" HDPE	96	2
1B	4.49	790	398	390	0.010	0.500	7.98	17.92	4.00	2.00	3.81	13.4	1.12	1	0.7	Am. Excelsior - 1 net	18" HDPE	296	3
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	2.8	Grass	18" HDPE	28	26
5A	0.14	250	396	383	0.065	0.500	7.98	0.56	4.00	2.00	2.53	1.2	0.10	1	0.4	Grass	18" HDPE	46	4
5B	4.28	345.00	383.00	376.00	0.021	0.50	7.98	17.08	2.00	2.00	4.94	10.90	0.91	0.50	1.17	Grass	12" HDPE	145.71	2.33
2A	7.24	401.00	394.00	376.00	0.045	0.50	7.98	28.89	2.00	2.00	7.51	11.70	0.98	0.50	2.73	Grass	12" HDPE	66.83	6.00
2B	0.32	407.00	400.00	380.00	0.049	0.50	7.98	1.28	2.00	2.00	3.08	2.10	0.18	0.50	0.54	Grass	12" HDPE	61.05	6.67
6A	0.98	233.00	386.00	378.00	0.030	0.50	7.98	3.91	2.00	2.00	3.71	4.60	0.38	0.50	0.72	Grass	12" 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	0.50	1.33	Grass	12" HDPE	52.74	6.33
7A	1.38	237.00	399.00	389.00	0.042	0.50	7.98	5.51	2.00	2.00	4.62	5.00	0.42	0.50	1.10	Grass	12" HDPE	71.10	3.33
7B	1.98	496.00	402.00	392.00	0.020	0.50	7.98	7.90	2.00	2.00	3.93	7.40	0.62	0.50	0.78	Grass	12" HDPE	148.80	3.33
3A	0.44	312.00	408.00	393.00	0.048	0.50	7.98	1.76	2.00	2.00	3.40	2.60	0.22	0.50	0.65	Grass	12" HDPE	62.40	5.00
3B	1.93	515.00	401.00	393.00	0.016	0.50	7.98	7.70	2.00	2.00	3.60	7.80	0.65	0.50	0.63	Grass	12" HDPE	193.13	2.67
4A	0.28	315.00	393.00	386.00	0.023	0.50	7.98	1.12	2.00	2.00	2.29	2.40	0.20	0.50	0.28	Grass	12" HDPE	132.86	2.33
4B	0.14	217.00	399.00	396.00	0.014	0.50	7.98	0.56	2.00	2.00	1.54	1.90	0.16	0.50	0.14	Grass	12" HDPE	217.00	1.00
8A	0.80	320.00	398.00	393.00	0.016	0.50	7.98	3.59	2.00	2.00	2.90	5.20	0.43	0.50	0.42	Grass	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	0.50	0.17	Grass	12" HDPE	795.00	0.67

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		
2		
3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	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

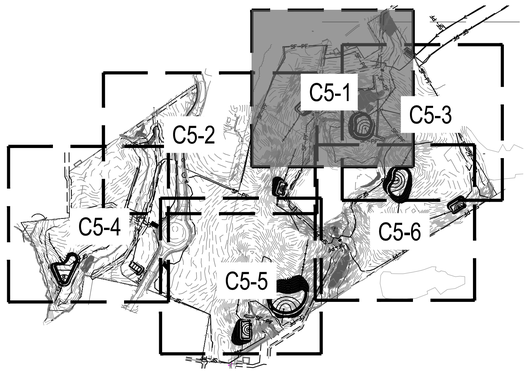
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRI
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-0

\\brownjay.net\panzura\Regions\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: 8/1/2023 3:04:22 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
	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
WWW.BGENC.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. FERRI
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-1

REV	DATE	DESCRIPTION
1	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

ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
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
- DRAINAGE AREA LABEL (DA# / ±X.X AC)
- SOIL TYPE (SOIL)
- DIRECTION OF OVERLAND FLOW (H:V, X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX, 100.XX)
- RR — RIP RAP APRON
- CE — CONSTRUCTION EXIT
- LD — EROSION CONTROL MATTING (NAG S150BN)
- LoD — LIMITS OF DISTURBANCE
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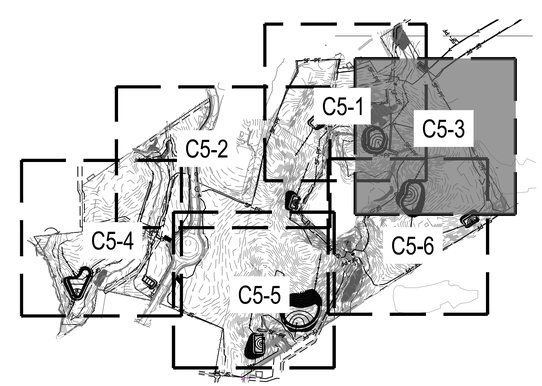
- CD — SEDIMENTATION CHAMBER BERM
- C# — SLOPE DRAIN WITH RIP-RAP APRON
- BB# — TEMPORARY RISER SKIMMER SEDIMENT BASIN
- IPR — STONE FILTER RING
- IPS — SILT FENCE INLET SEDIMENT TRAP
- IPE — EXCAVATED INLET SEDIMENT TRAP
- IPB — BLOCK INLET SEDIMENT FILTER



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

Know what's below. Call before you dig.

REV						
1					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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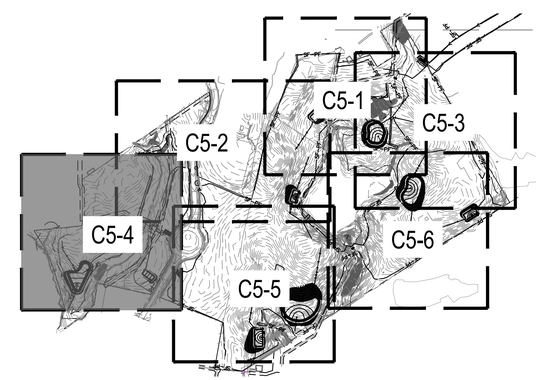
ENLARGED SITE PLAN
(3 OF 7)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
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)
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
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'

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REV	DATE	DESCRIPTION
1	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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ENLARGED PHASE 1 EROSION CONTROL PLAN (4 OF 6)

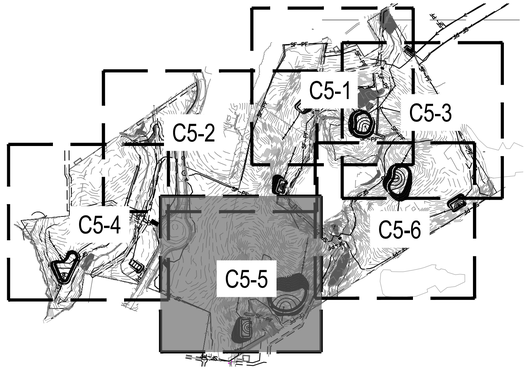
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
DEBRA M. FERRI
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-4

\\brownjay.net\panzura\Regions\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: 8/1/2023 3:04:56 PM

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DRAINAGE AREA
- DRAINAGE AREA LABEL (DA# / ±X.X AC)
- SOIL TYPE (SOIL)
- DIRECTION OF OVERLAND FLOW (H:V, X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX, 100.XX)
- 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



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

REV					
06/01/2023	INITIAL SUBMITTAL				
08/01/2023	PER TOWN OF ROLESVILLE COMMENT				

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

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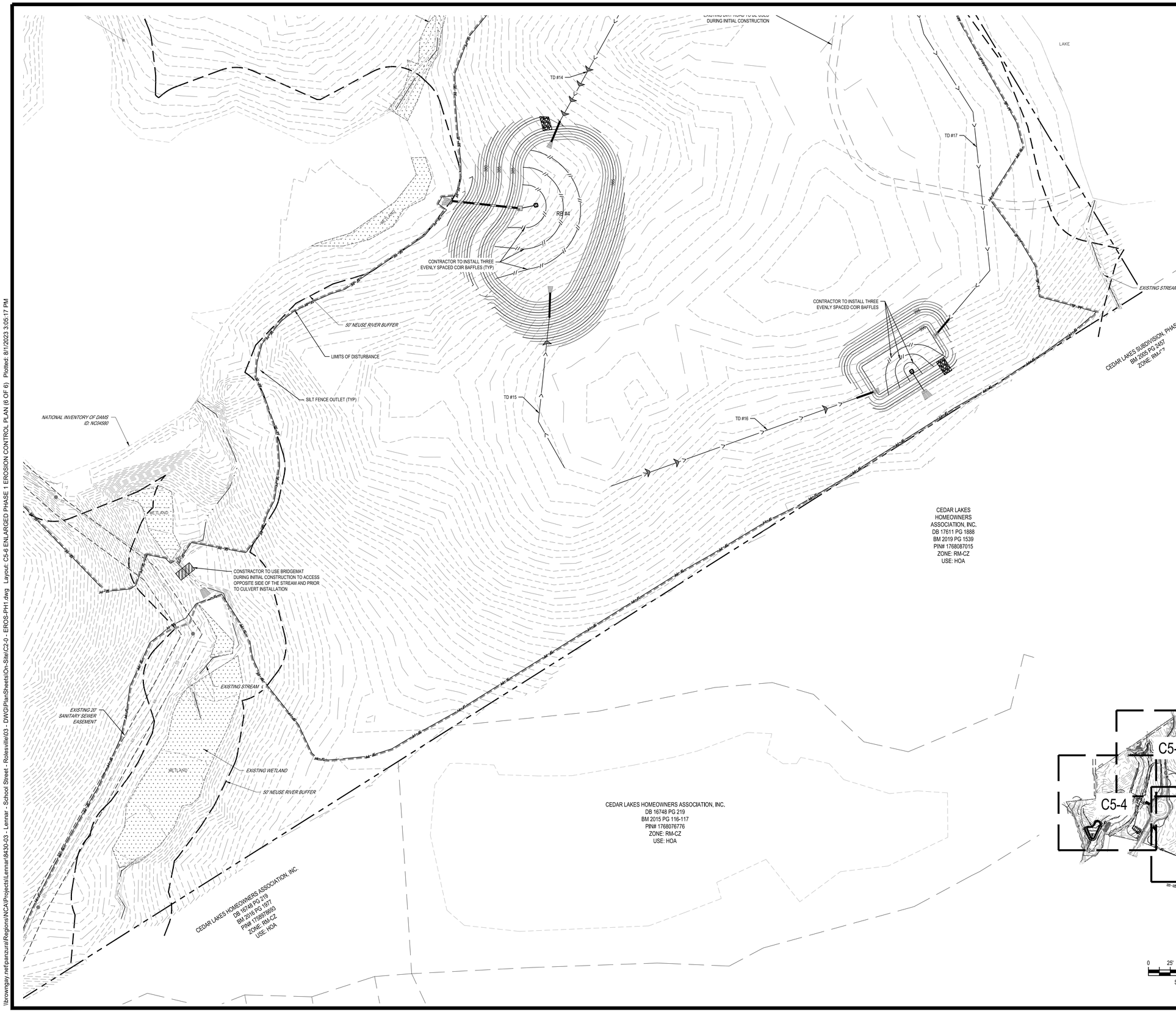
ENLARGED PHASE 1 EROSION CONTROL PLAN (5 OF 6)

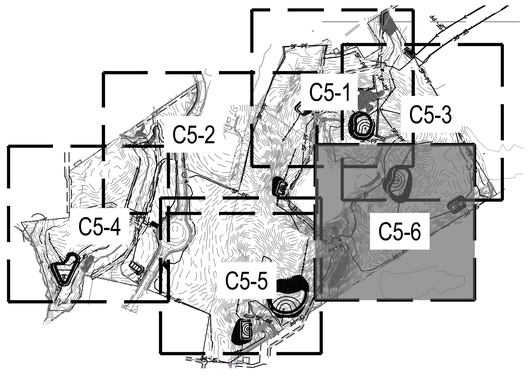
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — DEBRA M. FERRIS
PRELIMINARY
NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-5



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
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
LoD	



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

REV	DATE	
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	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
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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 (6 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-6

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
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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 -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.

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	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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OVERALL PHASE 2 EROSION CONTROL PLAN

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-7

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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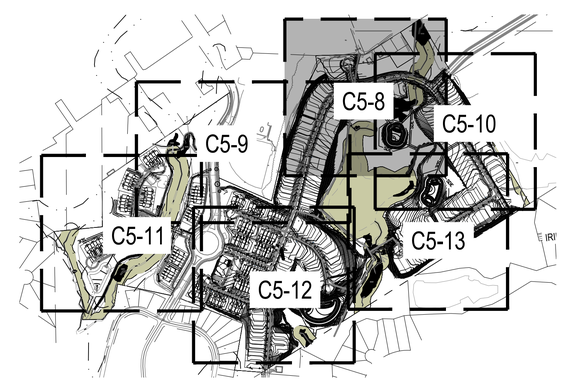
EXISTING UTILITY LEGEND

- 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'

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
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	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 (1 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
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: 8/1/2023 11:40:01 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.

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

REV	DATE	DESCRIPTION
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	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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ENLARGED PHASE 2 EROSION CONTROL PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — PRELIMINARY — DEBRA W. FERM

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 08/01/2023

C5-9

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-9 ENLARGED PHASE 2 EROSION CONTROL PLAN (2 OF 6) Plotted: 8/1/2023 11:40:13 AM

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

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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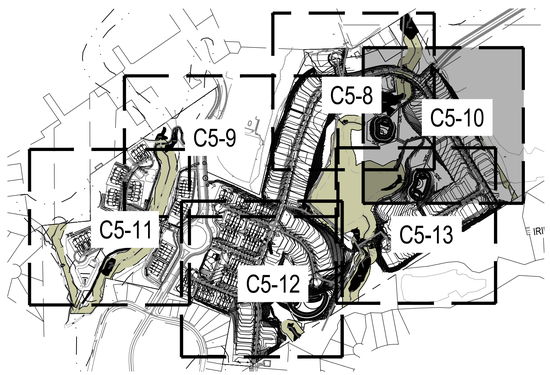

0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	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 (3 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-10

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-10 ENLARGED PHASE 2 EROSION CONTROL PLAN (3 OF 6) Plotted: 8/1/2023 11:40:25 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
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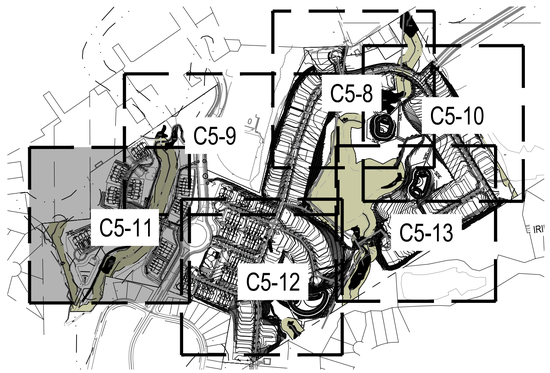
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, 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.



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

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

N

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	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 (4 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
PRELIMINARY
ENGINEER
ZAGRA M. FERNI
NOT FOR CONSTRUCTION

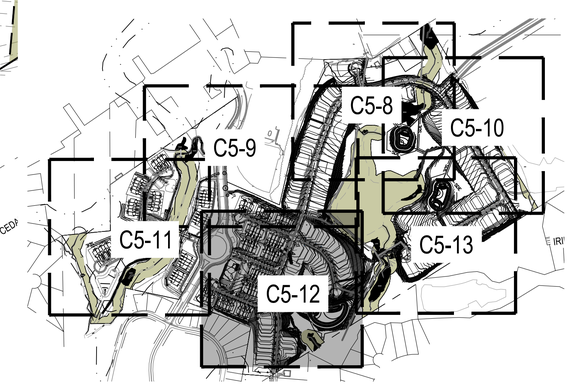
FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-11

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: 8/1/2023 11:40:38 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.*



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

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REV	DATE	DESCRIPTION
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3		
4		
5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
6	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 (5 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-12

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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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REV	DATE	DESCRIPTION
1	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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ENLARGED PHASE 2 EROSION CONTROL PLAN (6 OF 6)

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

FILE NUMBER: 8430-03
DATE: 08/01/2023
C5-13

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