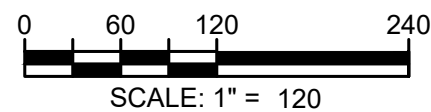


G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-0 OVERALL GRADING PLAN Plotted: 8/1/2023 2:28:30 PM



Call before you dig.

C4-0

OVERALL GRADING PLAN

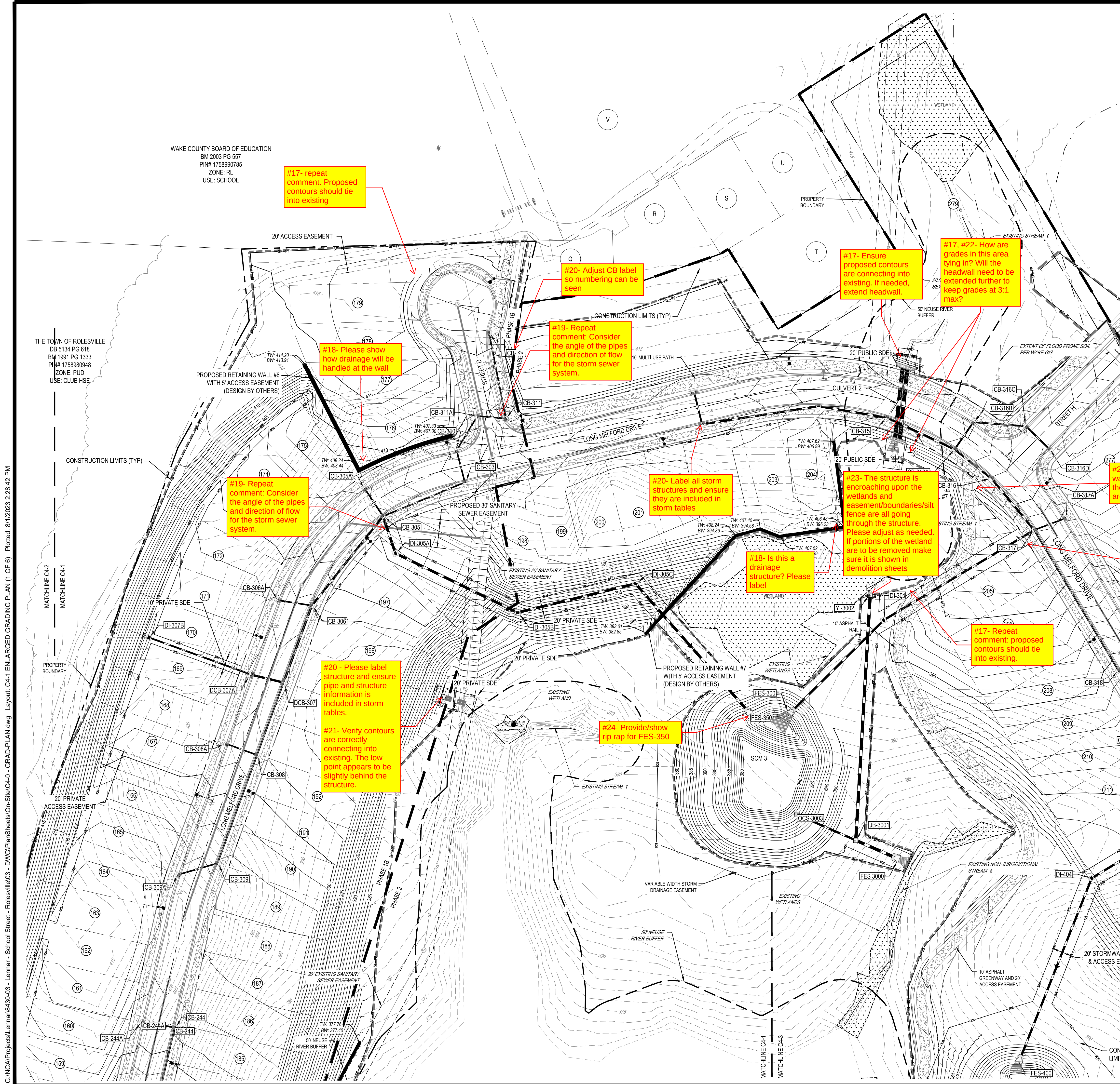
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



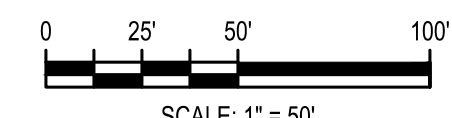
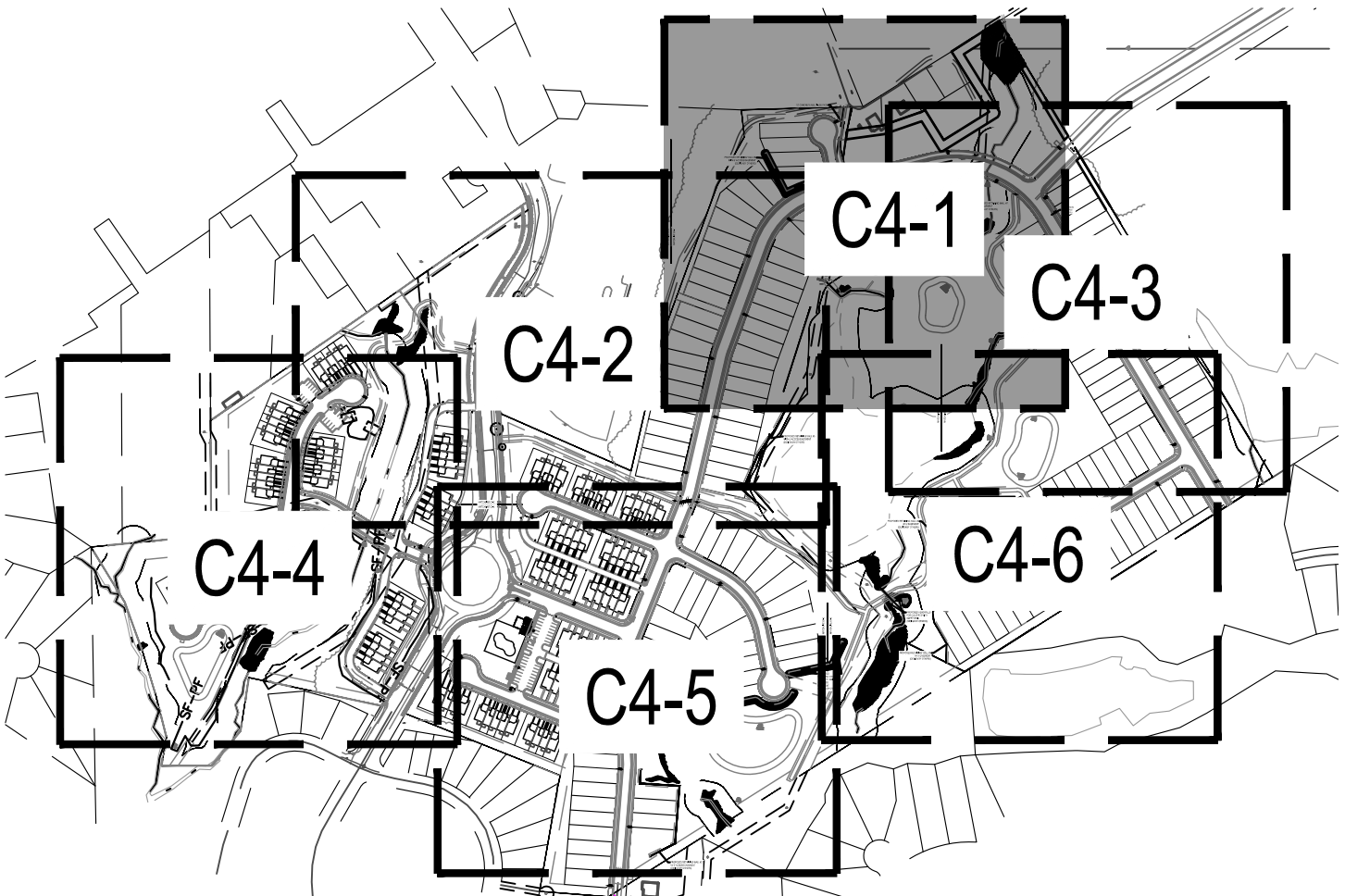
DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

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

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-1 ENLARGED GRADING PLAN (1 OF 6) Plotted: 8/1/2023 2:28:42 PM

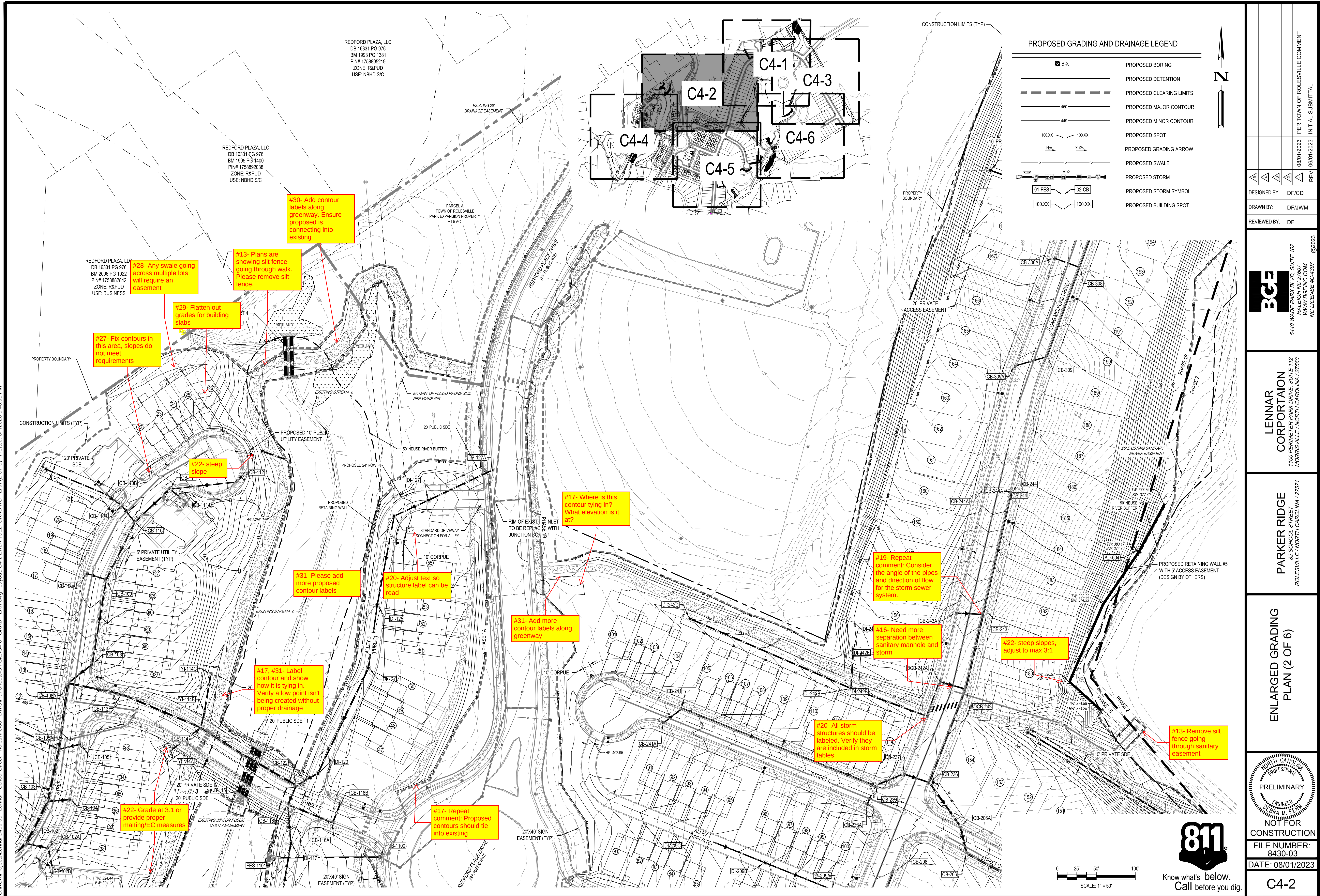


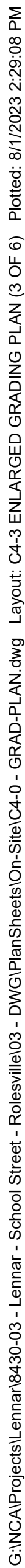
PROPOSED GRADING AND DRAINAGE LEGEND	
	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT
	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
	PROPOSED STORM SYMBOL
	PROPOSED BUILDING SPOT



	5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
	LENNAR CORPORAION	1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560
	PARKER RIDGE	82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571
	ENLARGED GRADING PLAN (1 OF 6)	
		NOT FOR CONSTRUCTION
FILE NUMBER: 8430-03		DATE: 08/01/2023
C4-1		

DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL





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

WALL CREEK, PHASE I
BN 1993 PG 1086
ZONE: R&PD
USE: RESIDENTIAL

STORAGE MAX VIII, LLC
DB 17556 PG 1235
BM 2013 PG 1030
PIN# 1758785571
ZONE: GC-CZ
USE: MINIWHS

STORAGE MAX II, LLC
DB 11710 PG 2072
BM 2005 PG 2354
PIN# 1758787576
ZONE: GC-CZ
USE: MINIWHS

THE VILLAGE AT ROLESVILLE
PHASE I, TRACT 1
BM 2004 PG 199-201
ZONE: R&PD
USE: RESIDENTIAL

THE VILLAGE AT ROLESVILLE, PHASE I, TRACT 2
BM 2004 PG 202-203
ZONE: R&PD
USE: RESIDENTIAL

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



PRELIMINARY
ENGINEER
FEDRA M. FERNANDEZ
NOT FOR
CONSTRUCTION
FILE NUMBER:
8430-03
DATE: 08/01/2023
C4-4

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

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

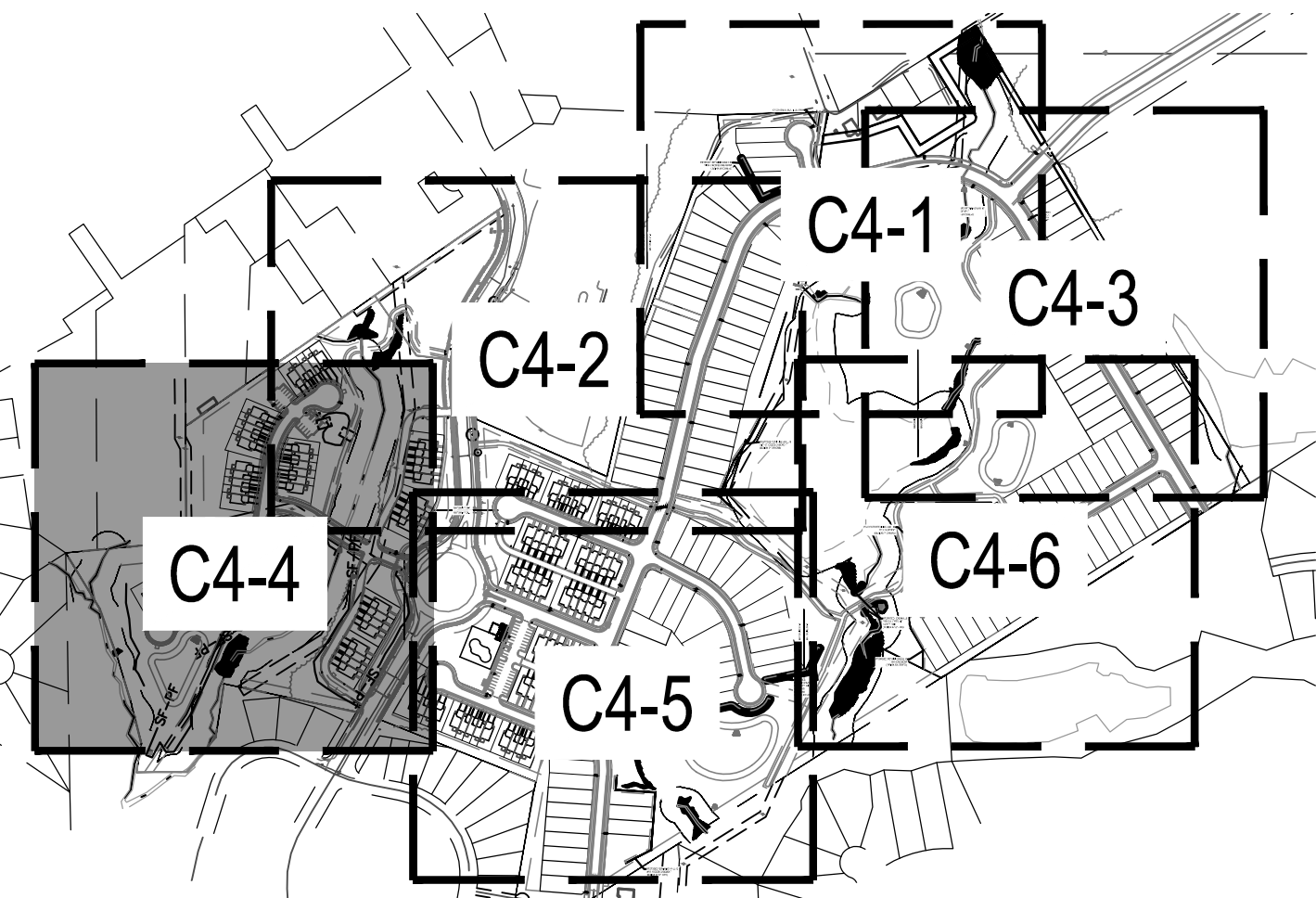
BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

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

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

PROPOSED GRADING AND DRAINAGE LEGEND

	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT
	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
	PROPOSED STORM SYMBOL
	PROPOSED BUILDING SPOT



#20- Label all storm structures and ensure they are included in storm tables.

#22- Grades steep in this section

#35- Fix contours in this area

#34- If this is truly a low point, there should be a storm inlet for collection. If it is not a low point, adjust label text and/or location to reflect this

#20- Label all storm structures and ensure they are included in storm tables.

#20- Label all storm structures and ensure they are included in storm tables.

#31- Label additional contours in this area

#37- Wall is in greenway easement.
#22- Grades going up to wall are too steep, consider extending wall or looking into some other solution.

#19- Repeat comment: Consider the angle of the pipes and direction of flow for the storm sewer system.

#16- Provide more separation between storm inlet and sanitary manhole

#36- Adjust contours in this area

#20- Label structure and ensure it's included on storm tables

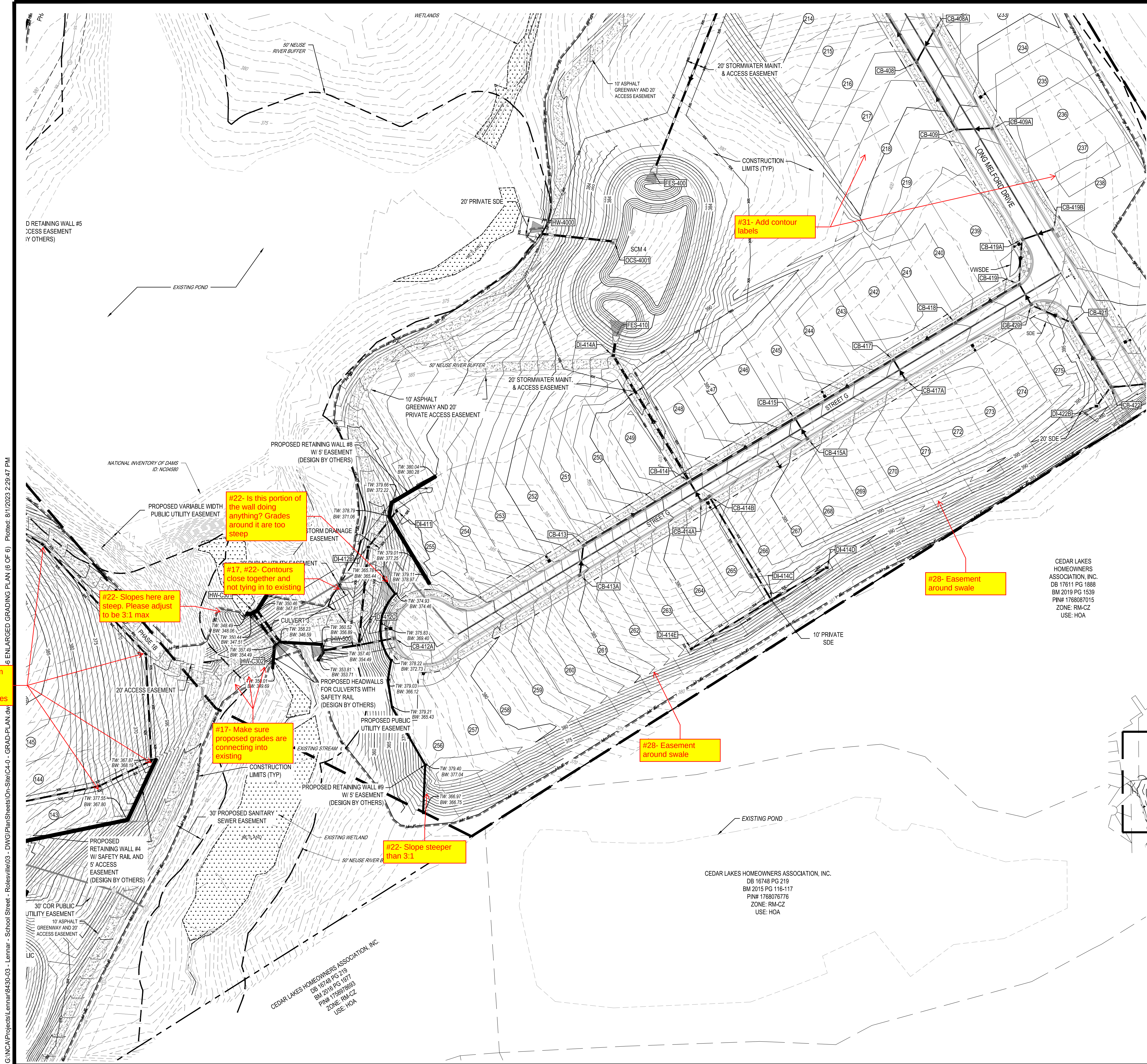
#36- Adjust and label contours in this area

#4- Leader not pointing at retaining wall, please adjust or remove.

#20- Include pipe and structure information

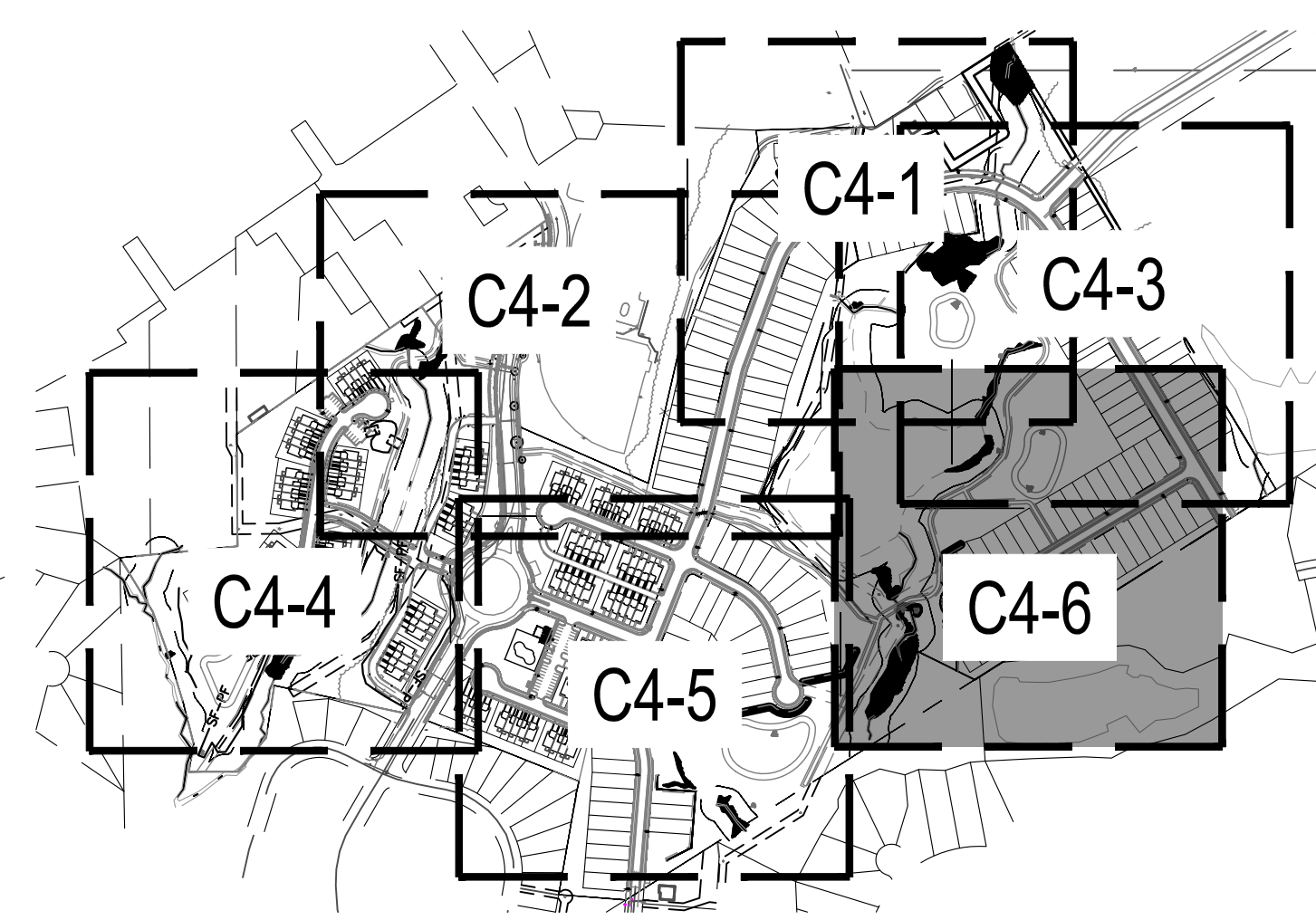
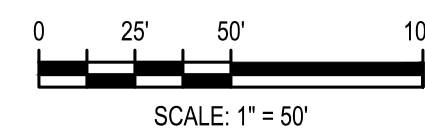
G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg ENLARGED GRADING PLAN (6 OF 6) Plotted: 8/1/2023 2:28:47 PM

#20- Label all storm structures and ensure they are included in the tables



PROPOSED GRADING AND DRAINAGE LEGEND

	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT
	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
	PROPOSED STORM SYMBOL
	PROPOSED BUILDING SPOT



Know what's below.
Call before you dig.

	DESIGNED BY:	DF/CD		
	DRAWN BY:	DF/JWM		
	REVIEWED BY:	DF		
	REV	08/01/2023	PER TOWN OF ROLESVILLE COMMENT	06/01/2023
LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560				
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571				
ENLARGED GRADING PLAN (6 OF 6)				
NOT FOR CONSTRUCTION				
FILE NUMBER: 8430-03				
DATE: 08/01/2023				
C4-6				

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) 386.30 (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"	#41- Minimum 2' required (measured from top of pipe)		
CB-109A	405.74			400.55 (E)	15"			
CB-110	405.18	15" 18"	398.09 (NW) 388.64 (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"	388.26 (S) 388.86 (E)	388.26 (NE)	18"	27.01	0.50%	CB-122
CB-116A	397.97						1.00%	CB-116
CB-116B	397.97						7.41%	CB-116A
CB-122	397.35	18"	389.30 (NE)				0.50%	CB-115
CB-127A	405.20		393.46 (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			396.97 (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)	390.77 (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

#42- There are quite a few structures shown on these tables that are not labeled in the plans. Please label all structures so it is possible to see what the information is referring to.

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"	371.00 (N) 366.19 (NE)	357.10 (S)	30"	76.37	4.95%	CB-200A
CB-201A	381.16	18"	359.00 (E)	358.90 (SW)	18"	29.12	2.45%	CB-201
CB-202	383.23	24"	375.27 (N) 379.07 (NE)	375.17 (S)	24"	63.36	5.00%	CB-201
CB-202A	383.52			379.50 (SW)	15"	28.49	1.50%	CB-202
CB-203	385.66	24"	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"	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	388.49	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"	386.66 (NW) 385.41 (S)	385.41 (S)	24"			
CB-210	390.88	24"	384.85 (W) 384.28 (N)	384.28 (SW)	24"			
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
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"	388.56 (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	396.35			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"	88.86	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"	388.06 (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"	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

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"	374.85 (N) 378.86 (W)	374.75 (SE)	24"	26.84	0.51%	CB-217
CB-217	384.33	24"	373.75 (S) 374.50 (NW)	373.50 (E)	30"	27.03	0.45%	CB-217A
CB-217A	384.35	30"	373.38 (W) 374.79 (N)	373.28 (E)	30"	146.60	7.69%	DI-217B
CB-218	384.00	24"	374.15 (E) 376.25 (S)	374.05 (N)	24"	45.81	0.66%	CB-217
CB-218A	384.04			374.45 (W)	24"	26.97	1.11%	CB-218
CB-219	387.45	15"	383.13 (E) 378.02 (S)	377.92 (N)	15"	167.76	1.00%	CB-218
CB-219A	387.32			383.25 (W)	15"	27.34	1.44%	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"	27.08	5.49%	CB-221A
CB-221A	388.50	15"	383.07 (N) 383.07 (W) 380.12 (S)	379.69 (E)	18"			
CB-222	390.49	18"	385.49 (W)	385.49 (E)	18"			
CB-223	392.65	15"	388.20 (N)	388.10 (SW)	15"	27.91	0.56%	CB-226
CB-224	393.99			391.05 (S)	15"	24.78	11.50%	CB-223
CB-226	392.67	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"	146.88	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"	386.37 (S) 386.47 (W)	386.37 (E)	18"	42.25	2.65%	CB-229
CB-230A	391.21			387.02 (N)	15"			
CB-231	394.55	18"	389.96 (W)	389.86 (E)	18"			

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"	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

#42- There are quite a few structures shown on these tables that are not labeled in the plans. Please label all structures so it is possible to see what the information is referring to.

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) 399.65 (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-305
DI-305B	392.39	30"	388.10 (NW)	388.10 (E)	30"	128.74	2.58%	DI-305
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	396.96	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

#41- not enough cover

#48- FES inv in and rim elev. values are not matching up. Correct values

#43- 0.50% min slope

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
JB-3001 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-308 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

#43- Min slope requirements not met

STORM STRUCTURE NOTES:

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

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

The following applies to all storm/all stormwater tables:

#44- Several rim elevations shown on these tables don't match what the contours indicate. Per notes, rims for catch basins should be given at top of curb.

#45- Several drops between inverts across all tables are not adhering to minimum drop requirements. 0.2' drop required when change in alignment is 45-90 degrees or pipe size increases. 0.1' drop allowed if alignment change is between 0-45 degrees. (per COR stormwater management design manual)

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) 384.62 (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"	382.62 (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	15" 18"	383.29 (NE) 387.87 (SE)	382.79 (SW)	24"	133.00	0.38%	CB-414
CB-415A	395.52			386.01 (NW)	15"	27.02	0.50%	CB-415
CB-417	398.40	15" 18"	393.94 (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

PIPE TABLE			
NAME	SIZE	LENGTH	SLOPE
CB-414 TO CB-413	18"	133.49'	0.67%
CB-414 TO CB-415	24"	133.00'	0.38%
CB-413 TO CB-413A	15"	34.00'	0.59%
CB-414 TO CB-414A	18"	25.50'	0.86%
CB-415 TO CB-415A	15"	27.02'	0.50%
FES-400 TO DI-404	24"	210.11'	0.50%
DI-404 TO CB-405	24"	137.50'	0.87%
CB-405 TO CB-407	15"	93.29'	0.75%
CB-405 TO CB-406	15"	91.00'	1.72%
CB-406 TO CB-406A	15"	35.08'	0.80%
CB-405 TO CB-405A	18"	35.00'	0.50%
CB-421 TO CB-422	15"	81.80'	0.69%
CB-420 TO CB-421	15"	47.08'	0.50%
CB-419 TO CB-420	15"	27.00'	0.50%
CB-418 TO CB-419	18"	80.71'	0.50%
CB-419 TO CB-419A	15"	47.55'	13.06%
CB-419A TO CB-419B	15"	35.77'	1.06%
CB-408 TO CB-409	15"	84.16'	1.54%
CB-409 TO CB-409A	15"	39.86'	7.53%
CB-408 TO CB-408A	15"	40.36'	0.74%

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

#42- Missing: HW-4000, OCS-4001, FES-410 HW-500

#42- Missing: HW-4000 to OCS-4001

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-416
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)	386.00 (SW)	18"	115.98	0.50%	CB-405B
DI-405D	392.25			386.07 (NW)	18"	127.08	1.71%	DI-405C
DI-411	380.22			386.00 (SW)	18"	48.80	10.04%	DI-412B
DI-412B	386.08	16"	381.00 (NE)	380.90 (S)	24"	106.33	0.85%	DI-412C
DI-412C	383.75	24"	380.00 (N) 384.00 (E)	385.80 (W)	24"	40.27	1.24%	HW-500
DI-414A	387.43	30"	379.01 (SE)	378.81 (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	394.25			389.15 (NE)	#48- FES inv in and rim elev. values are not matching in			CB-422
FES-400	384.25	24"	381.50 (N)					

\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Erosion Control - DWG\PlanSheets\On-Site\C5-2-0 - Erosion Control Plan (2 of 6) - Erosion Control Plan (2 of 6) Plotted: 8/1/2023 3:04:35 PM



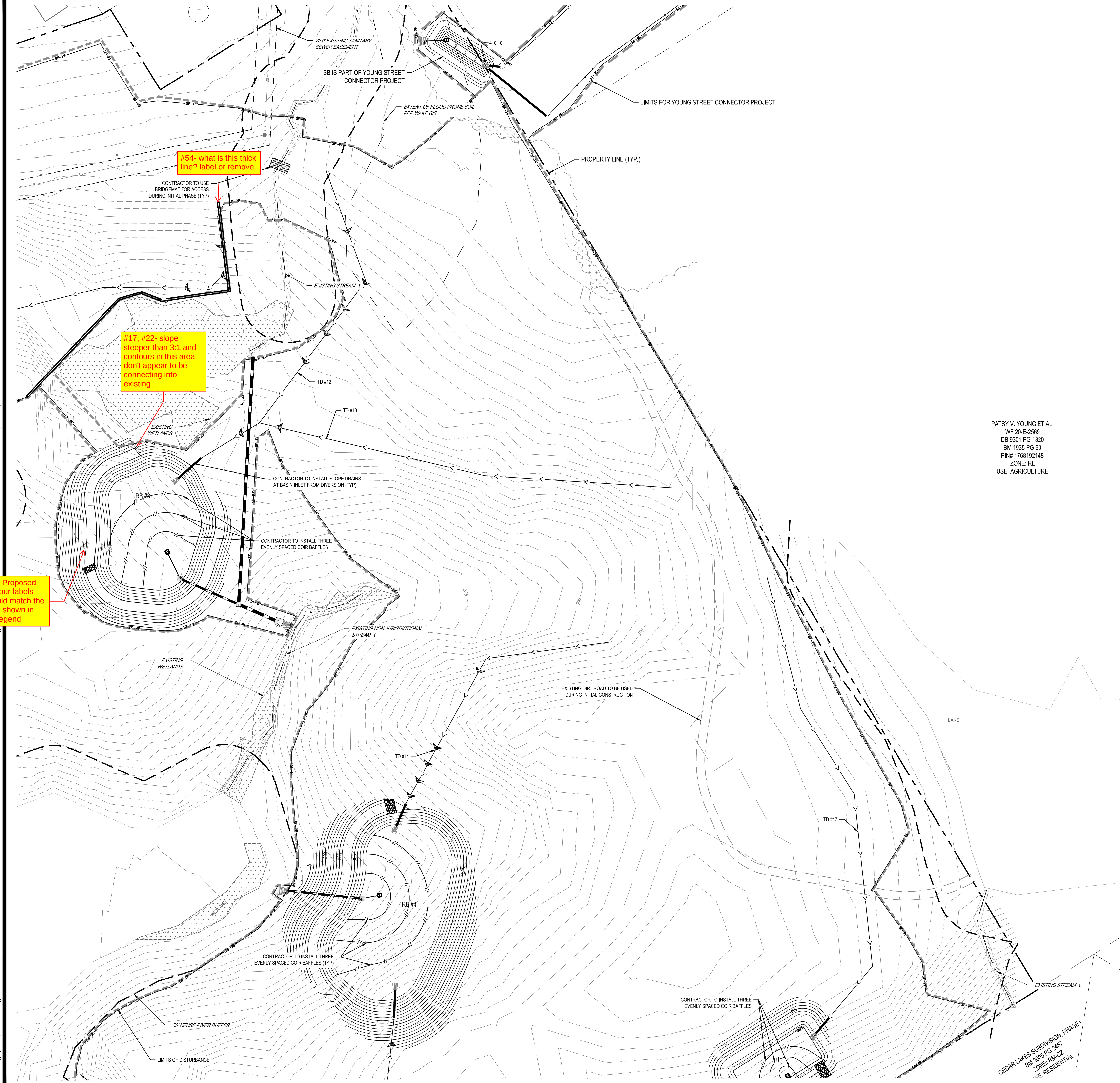
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DRAWN BY: DFC/JWM	
REVIEWED BY: DFC	
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REV 06/01/2023 INITIAL SUBMITTAL	
BCE	
5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORAION 1100 PERIMETER PARK 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)	
PRELIMINARY ENGINEER FEDRA M. FERNANDEZ NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03	
DATE: 08/01/2023	
C5-2	

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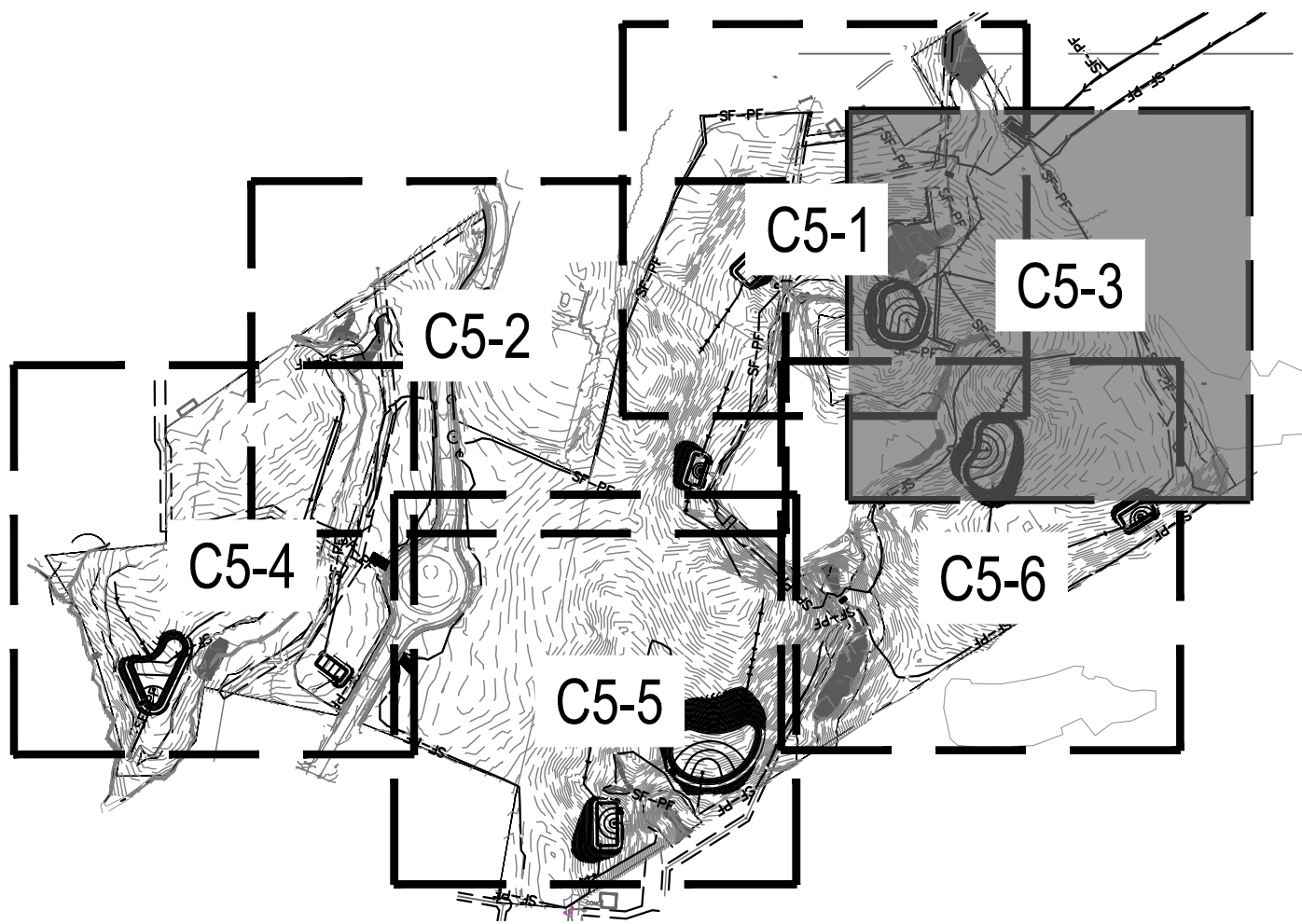
#50- Proposed contour labels should match the style shown in the legend

#17, #22- slope steeper than 3:1 and contours in this area don't appear to be connecting into existing

#54- what is this thick line? label or remove



EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	SOIL TYPE
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION EXIT
	EROSION CONTROL MATTING (NAG S150BN)
	LIMITS OF DISTURBANCE
	TEMPORARY JUTE NETTING BAFFLES (700 GM/2 COIR FABRIC OR HEAVIER)
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	TEMPORARY HIGH HAZARD FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STONE FILTER RING
	SILT FENCE INLET SEDIMENT TRAP
	EXCAVATED INLET SEDIMENT TRAP
	BLOCK INLET SEDIMENT FILTER



PRELIMINARY

ENGINEER

EDRA M. FERN

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 08/01/2023

C5-3

LANNAR CORPORAION

1100 PERIMETER PARK DRIVE, SUITE 112

MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET

ROLESVILLE / NORTH CAROLINA / 27571

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

08/01/2023

06/01/2023

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL

5440 WADE PARK BLVD, SUITE 102

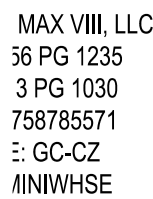
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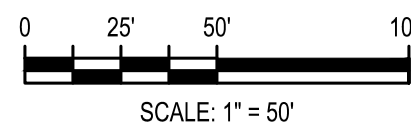
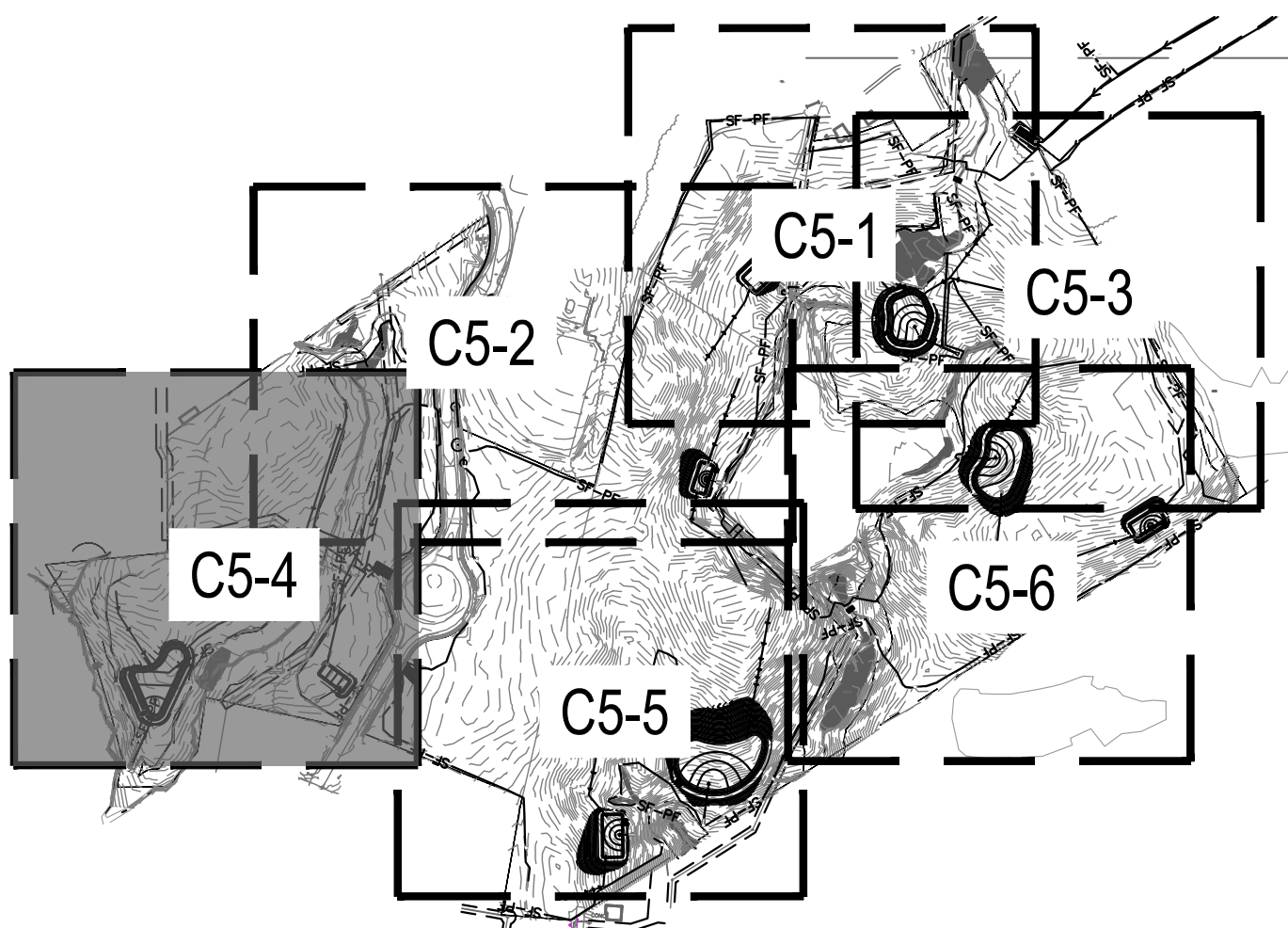
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THE VILLAGE AT ROLESVILLE
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BM 2004 PG 199-201
ZONE: R&PUD
USE: RESIDENTIAL

THE VILLAGE AT ROLESVILLE, PHASE I, TRACT 2
BM 2004 PG 202-203
ZONE: R&PUD
USE: RESIDENTIAL

EROSION CONTROL LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	SOIL TYPE
	DIRECTION OF OVERLAND FLOW
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION EXIT
	EROSION CONTROL MATTING (NAG S150BN)
	LIMITS OF DISTURBANCE
	TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	TEMPORARY HIGH HAZARD FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STONE FILTER RING
	SILT FENCE INLET SEDIMENT TRAP
	EXCAVATED INLET SEDIMENT TRAP
	BLOCK INLET SEDIMENT FILTER



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CORPORATION

PARKER RIDGE
82 SCHOOL STREET
BOLESVILLE / NORTH CAROLINA / 28008

ENLARGED PHASE 1
EROSION CONTROL
PLAN (4 OF 6)



NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 08/01/2023

C5-4

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

BGE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGEINC.COM
NC LICENSE #C-4397 ©2010

LENNAR
CORPORATION

PARKER RIDGE
82 SCHOOL STREET
BOLESVILLE / NORTH CAROLINA / 28008

ENLARGED PHASE 1
EROSION CONTROL
PLAN (4 OF 6)

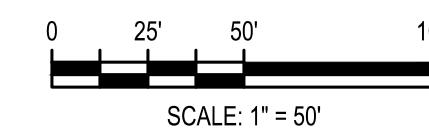


NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 08/01/2023

C5-4



Know what's below.
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[illegible]



EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	SOIL TYPE
	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 OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	TEMPORARY HIGH HAZARD FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STONE FILTER RING
	SILT FENCE INLET SEDIMENT TRAP
	EXCAVATED INLET SEDIMENT TRAP
	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:
- OBTAIN GRADING/ EROSION CONTROL PLAN APPROVAL FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
 - 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.
 - INSTALL SWPPP SIGN AND TEMPORARY CONSTRUCTION ENTRANCE.
 - CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
 - SCHEDULE AN ON-SITE INSPECTION BY CITY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
 - THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- PHASE 2:
- 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - CONTRACTOR SHALL COORDINATE WITH THE EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

TOTAL DISTURBED AREA
±59.6 ACRES

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



DESIGNED BY: DF/CD	PER TOWN OF ROLESVILLE COMMENT
DRAWN BY: DF/JWM	08/01/2023
REVIEWED BY: DF	06/01/2023
REVISIONS	REV
BCE	
5440 WIDE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORAION	
1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE	
82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
OVERALL PHASE 2 EROSION CONTROL PLAN	
PRELIMINARY	
NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03	
DATE: 08/01/2023	
C5-7	

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - DWG\PlanSheets\On-Site\C2-1 - EROS-PHZ.dwg Layout: C5-8 ENLARGED PHASE 2 EROSION CONTROL PLAN (1 OF 6) Plotted: 8/1/2023 11:40:01 AM

#17- Repeat comment: Please ensure proposed grade ties in to existing

#58- On all erosion control sheets: Please show silt fence for protection until construction is done

WAKE COUNTY BOARD OF EDUCATION
BM 2003 PG 557
PIN# 175890785
ZONE: RL
USE: SCHOOL

THE TOWN OF ROLESVILLE
DB 5134 PG 618
BM 1991 PG 1333
PIN# 1758980948
ZONE: PUD
USE: CLUB HSE

PROPOSED RETAINING WALL #6
WITH 5' ACCESS EASEMENT
(DESIGN BY OTHERS)

PROPOSED RETAINING WALL #7
WITH 5' EASEMENT
(DESIGN BY OTHERS)

PROPOSED RETAINING WALL #5
WITH 5' ACCESS EASEMENT
(DESIGN BY OTHERS)

#59- Show culvert

#59- Show structure
to be put in as well as
inlet protection
around it

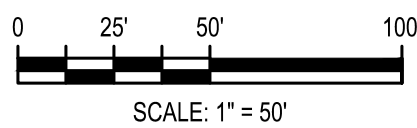
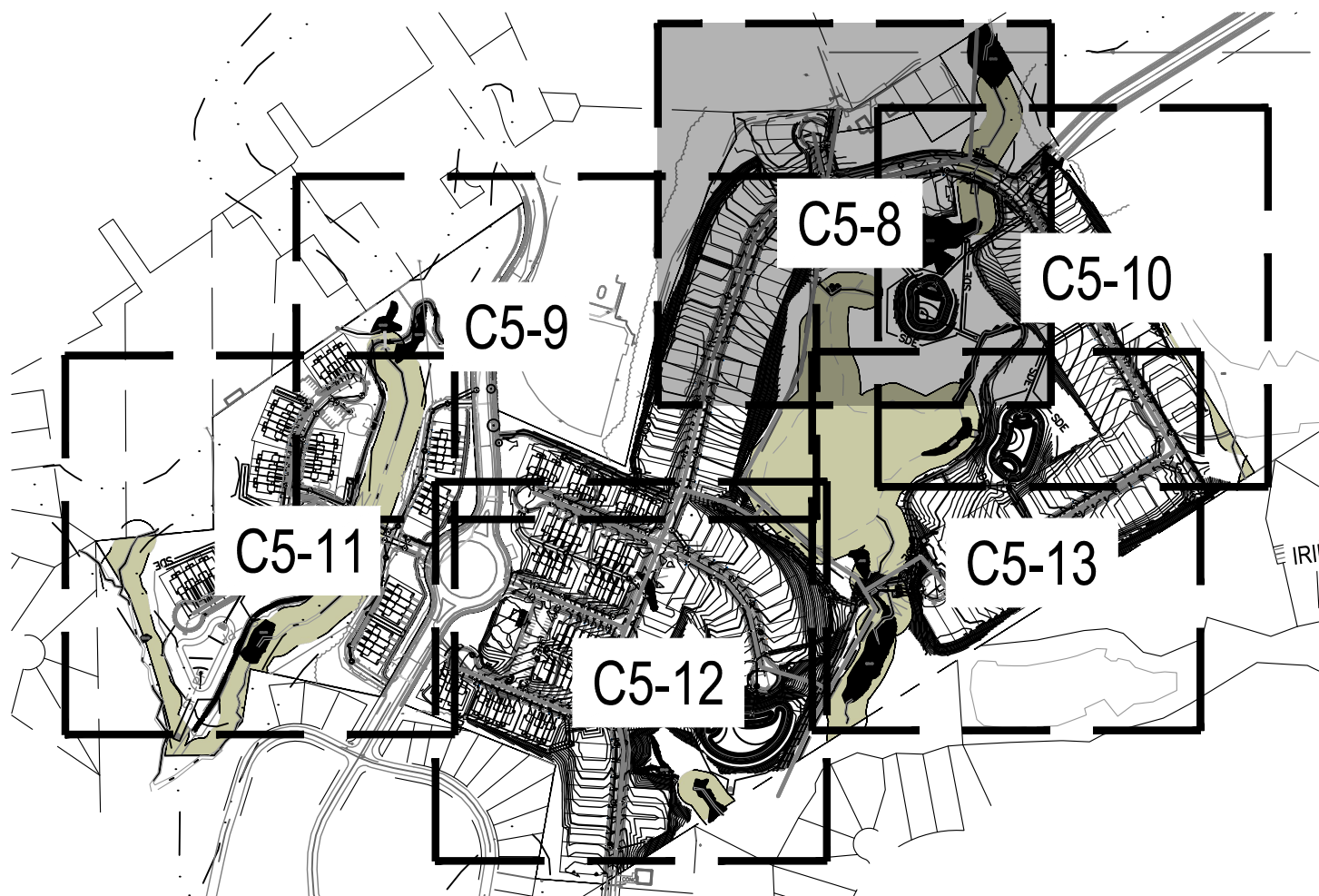
#31- Add proposed
contour labels to
SCM

#59- Outlet pipe not
showing

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	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 (HQP) 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.

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
	UNKNOWN UTILITY
	EXISTING TREES / SHRUBS / BUSHES
	EXISTING TREELINE



DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

BCE

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NC LICENSE #C-4397

LENNAR

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

ENLARGED PHASE 2

EROSION CONTROL

PLAN (1 OF 6)

NORTH CAROLINA

PROFESSIONAL

PRELIMINARY

ENGINEER

DEBRA M. FERN

NOT FOR CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 08/01/2023

C5-8

08/01/2023

08/01/2023

REV

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL

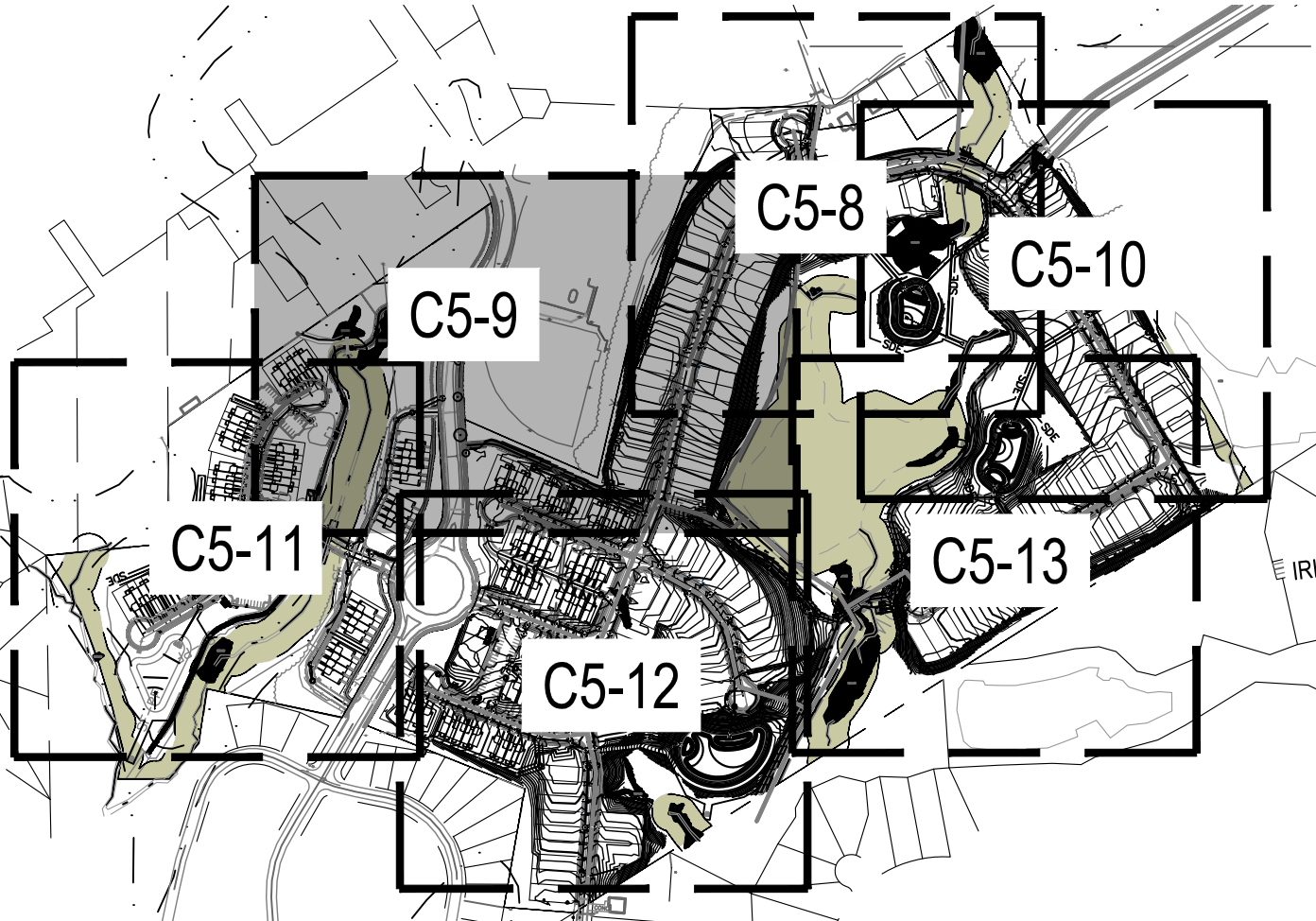
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SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2W) 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 H2W 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 H2W Zones -10 days for Falls Lake Watershed unless there is zero slope

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REDFORD PLAZA, LLC
DB 16331 PG 976
BM 1993 PG 1381
PIN# 1758895219
ZONE: R&PUD
USE: NBHD S/C

THE TOWN OF ROLESVILLE
DB 5134 PG 618
BM 1991 PG 1333
PIN# 1758980948
ZONE: PUD
USE: CLUB HSE



REDFORD PLAZA, LLC
DB 16331 PG 976
BM 2006 PG 1022
PIN# 1758882842
ZONE: R&PUD
USE: BUSINESS



DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

08/01/2023

06/01/2023

REV

PER TOWN OF ROLESVILLE COMMENT

INITIAL SUBMITTAL

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NC LICENSE #C-4397

LENNAR

CORPORAION

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MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2

EROSION CONTROL

PLAN (2 OF 6)

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

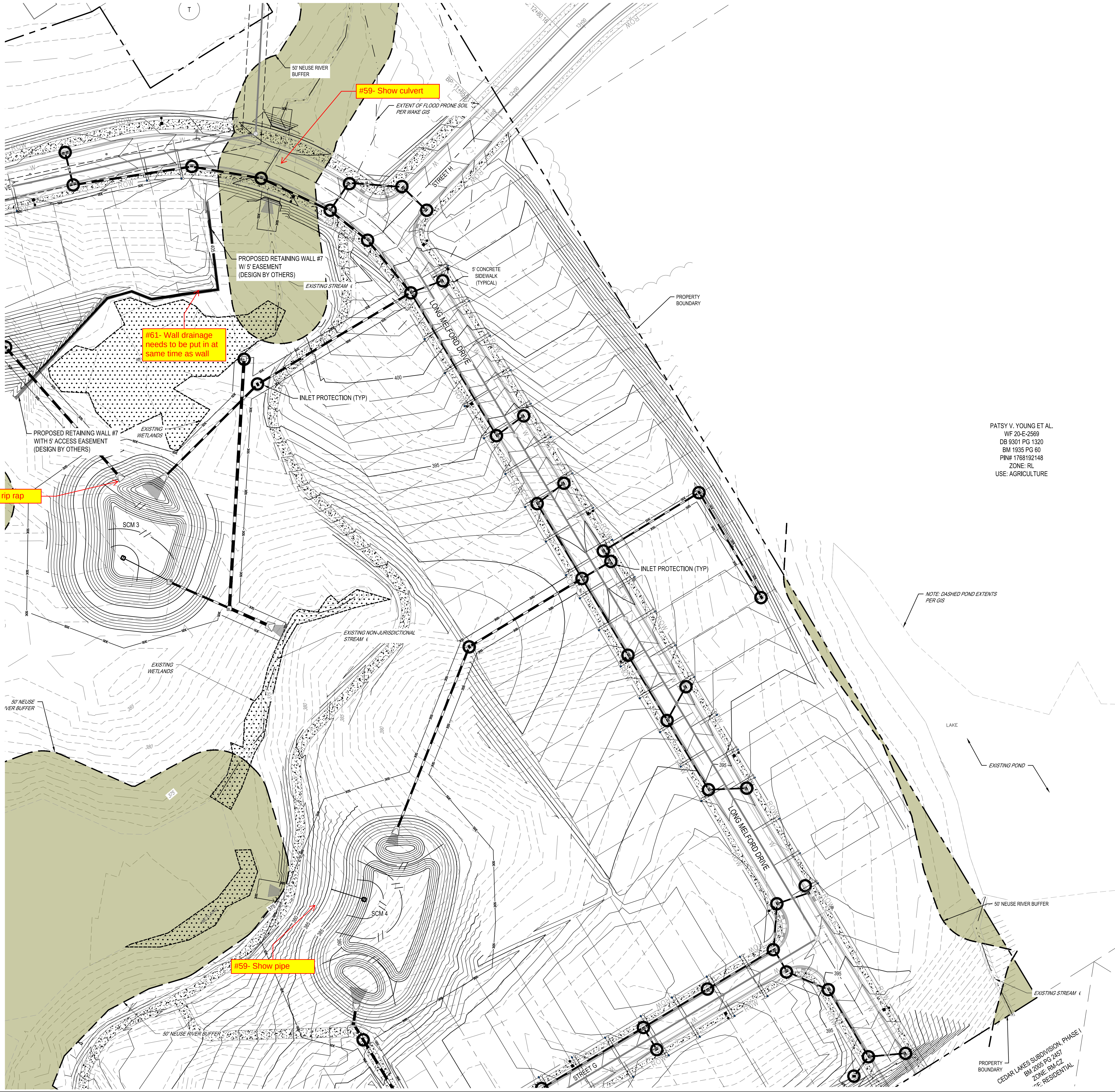
DATE: 08/01/2023

811

Know what's below.
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C5-9

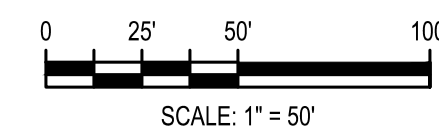
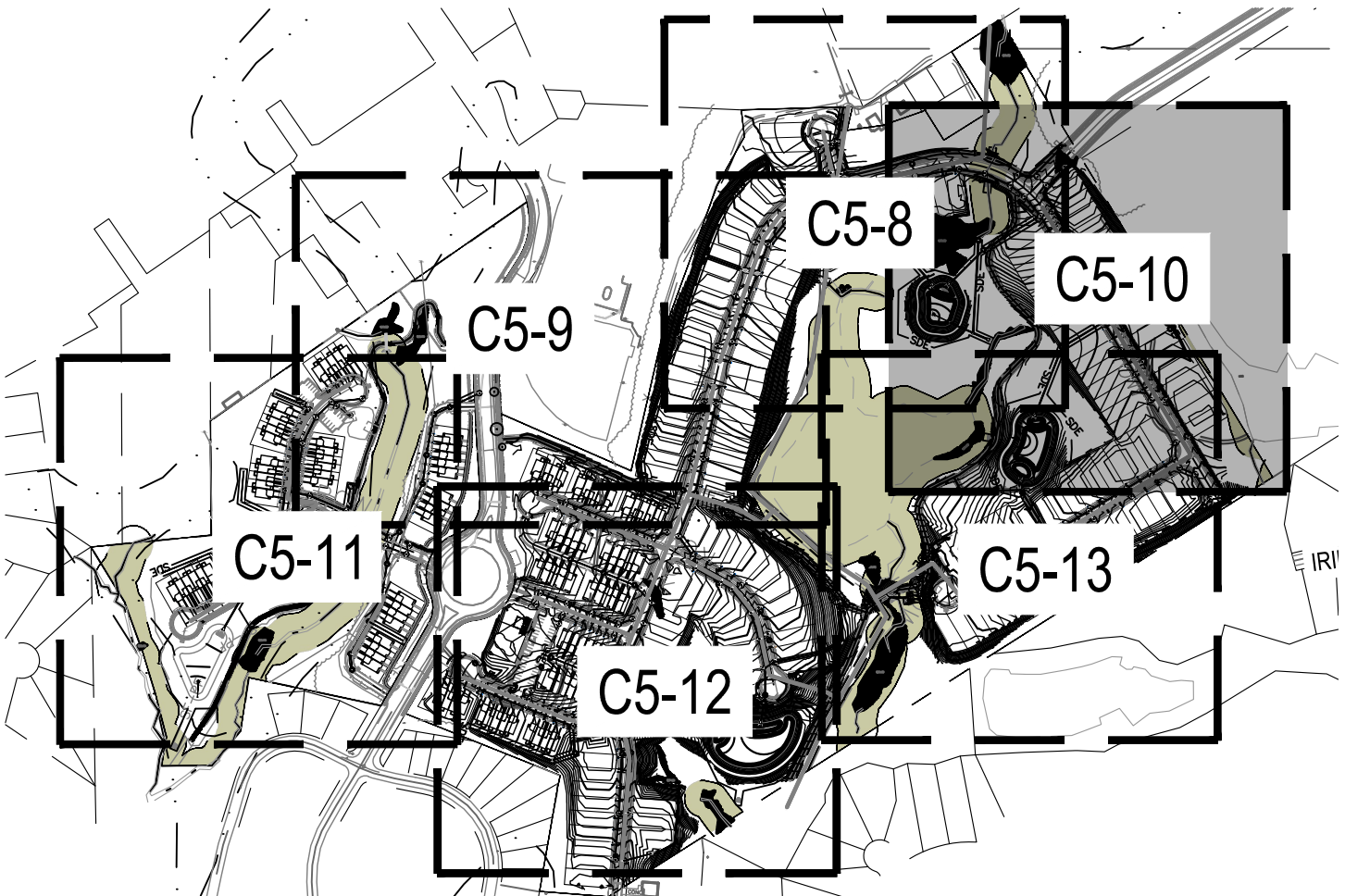
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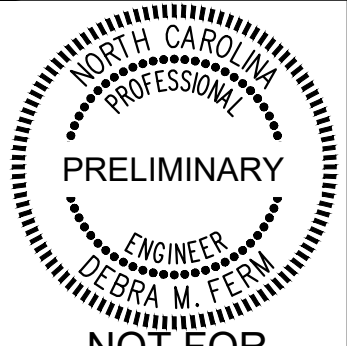
PATSY V. YOUNG ET AL.
WF 20-E-2569
DB 8301 PG 1320
BM 1935 PG 60
PIN# 1768192148
ZONE: RL
USE: AGRICULTURE

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	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 (HQP) 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
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(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HPQ 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.



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ENLARGED PHASE 2
EROSION CONTROL
PLAN (3 OF 6)

PARKER RIDGE
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1100 PERIMETER PARK DRIVE, SUITE 112
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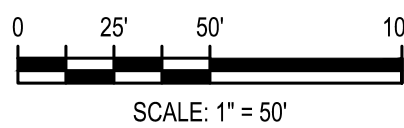
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RALEIGH NC 27607
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NC LICENSE #C-4397

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

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

C5-10

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.



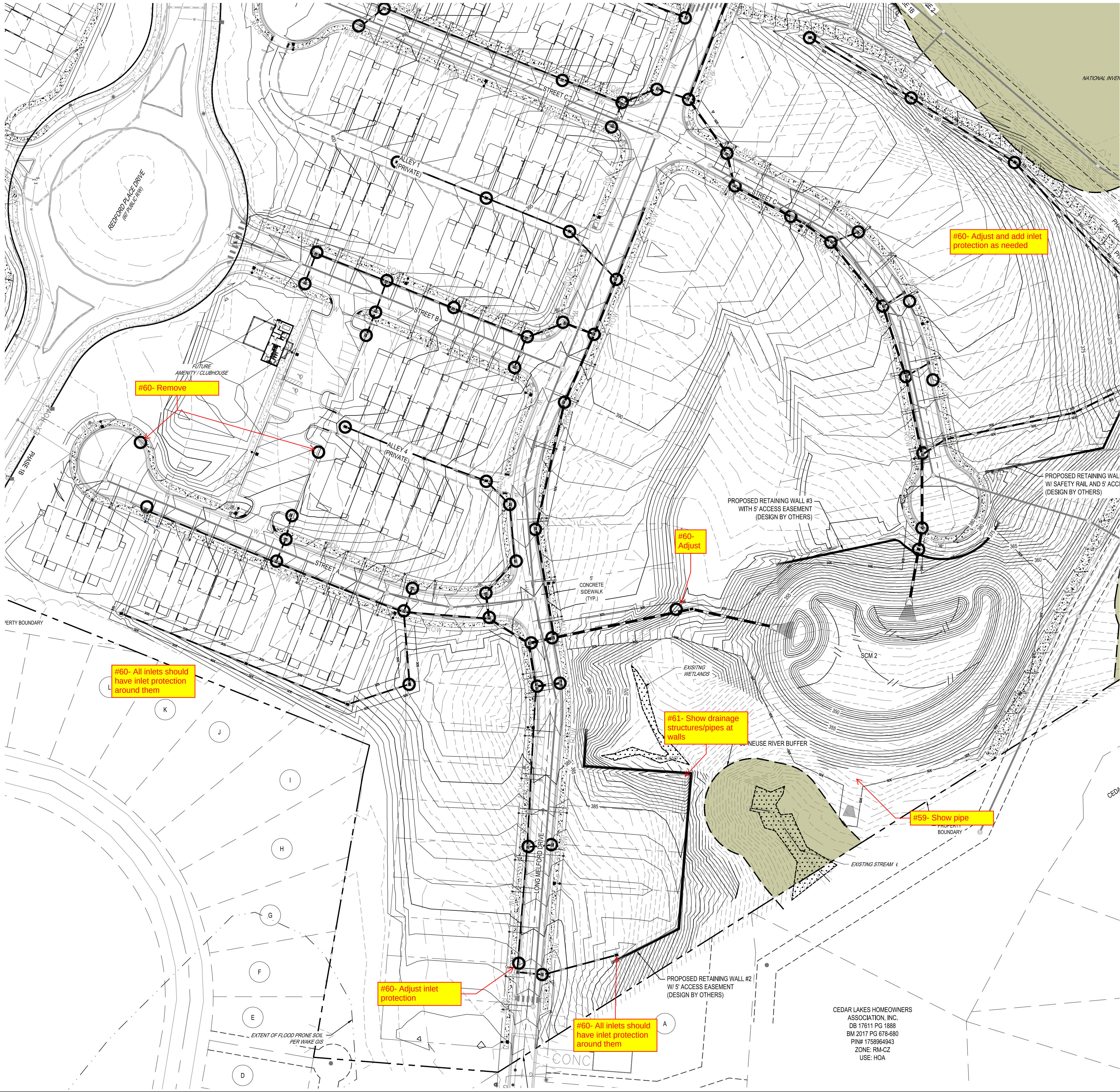
NORTH CAROLINA
PROFESSIONAL
PRELIMINARY
ENGINEER
DEBRA M. FETM
NOT FOR
CONSTRUCTION
FILE NUMBER:
8430-03
DATE: 08/01/2023
C5-11

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27081

**LENNAR
CORPORAION**
11100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

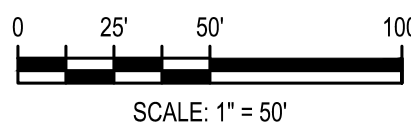
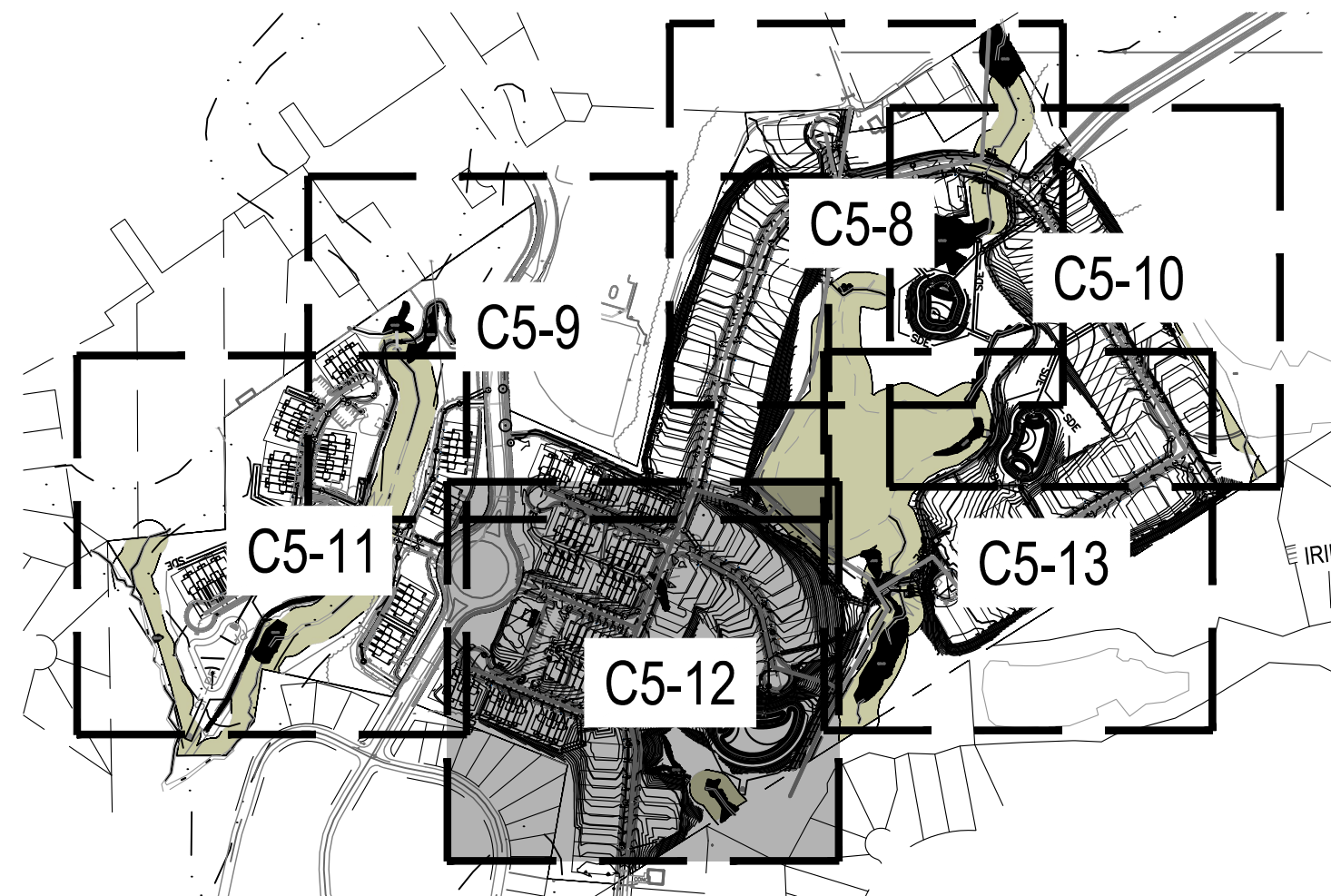
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

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SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	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 (HQP) 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 -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 HPQ Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HPQ Zones -10 days for Falls Lake Watershed unless there is zero slope
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FILE NUMBER:
8430-03
DATE: 08/01/2023

C5-12

PARKER RIDGE
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ROLESVILLE / NORTH CAROLINA / 27571

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

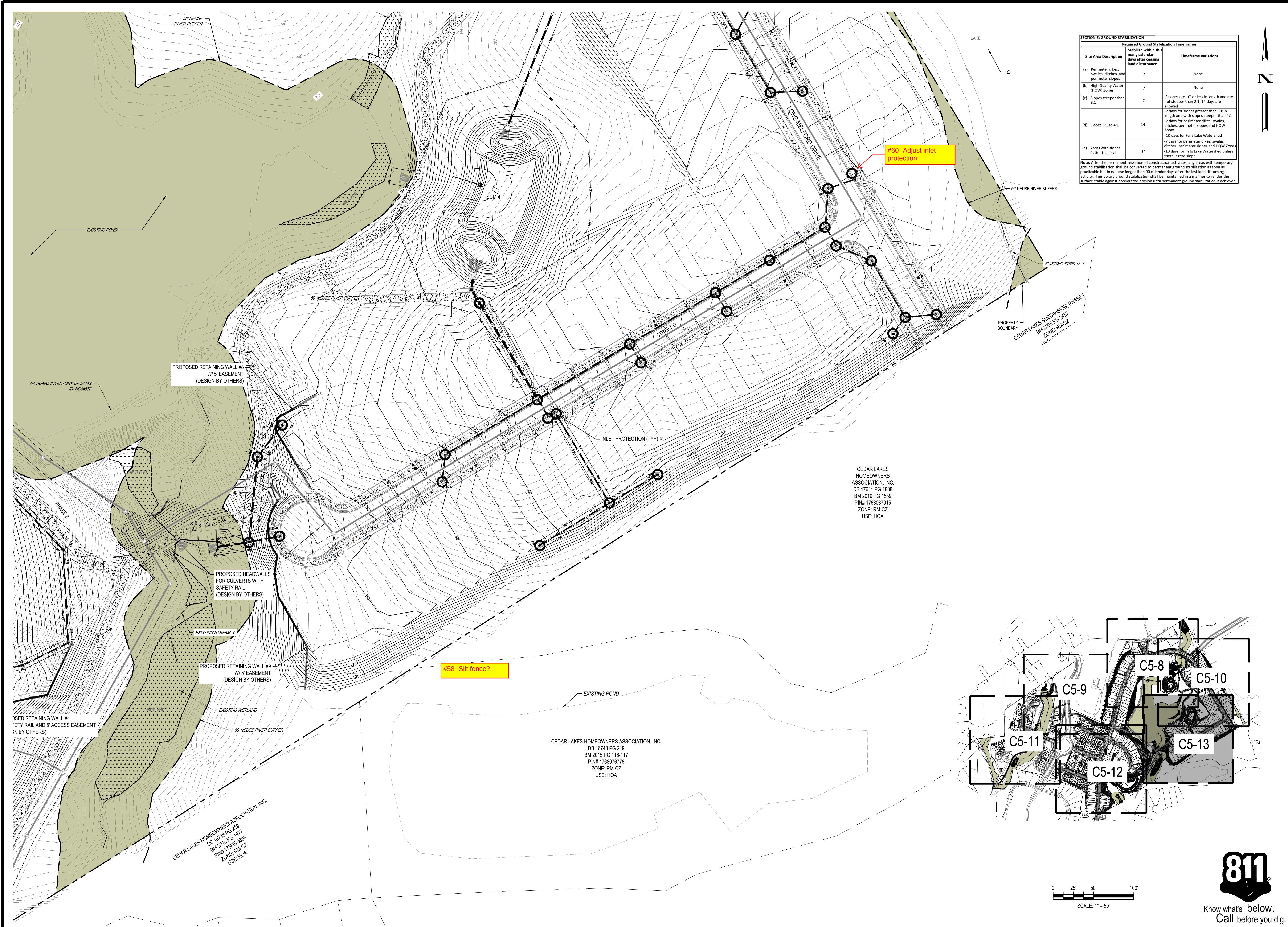
BCE
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RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

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

REV 06/01/2023 INITIAL SUBMITTAL

08/01/2023 PER TOWN OF ROLESVILLE COMMENT





SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timelines	
	Stabilize within this many calendar days after ceasing land disturbance	Timeline variations
(a) Perimeter ditches, swales, ditches, and post-tensioned drains	7	None
(b) High-quality Water (HWQ) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10:1 or less, 14 days are not permitted; otherwise, 7 days for slopes greater than 50° in length and with slopes steeper than 4:1. 7 days for perimeter ditches, swales, ditches, perimeter ditches and HWQ Zones
(d) Slopes 3:1 to 4:1	14	10 days for perimeter ditches, swales, ditches, perimeter ditches and HWQ Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 3:1	14	7 days for perimeter ditches, swales, ditches, perimeter ditches and HWQ Zones 10 days for Falls Lake Watershed unless there is zero slope

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[illegible]