

# CARLTON POINTE SUBDIVISION

## FINAL PHASE TRAIL AND STORM DRAINAGE PLAN

ROLESVILLE, NC  
WAKE COUNTY, NORTH CAROLINA

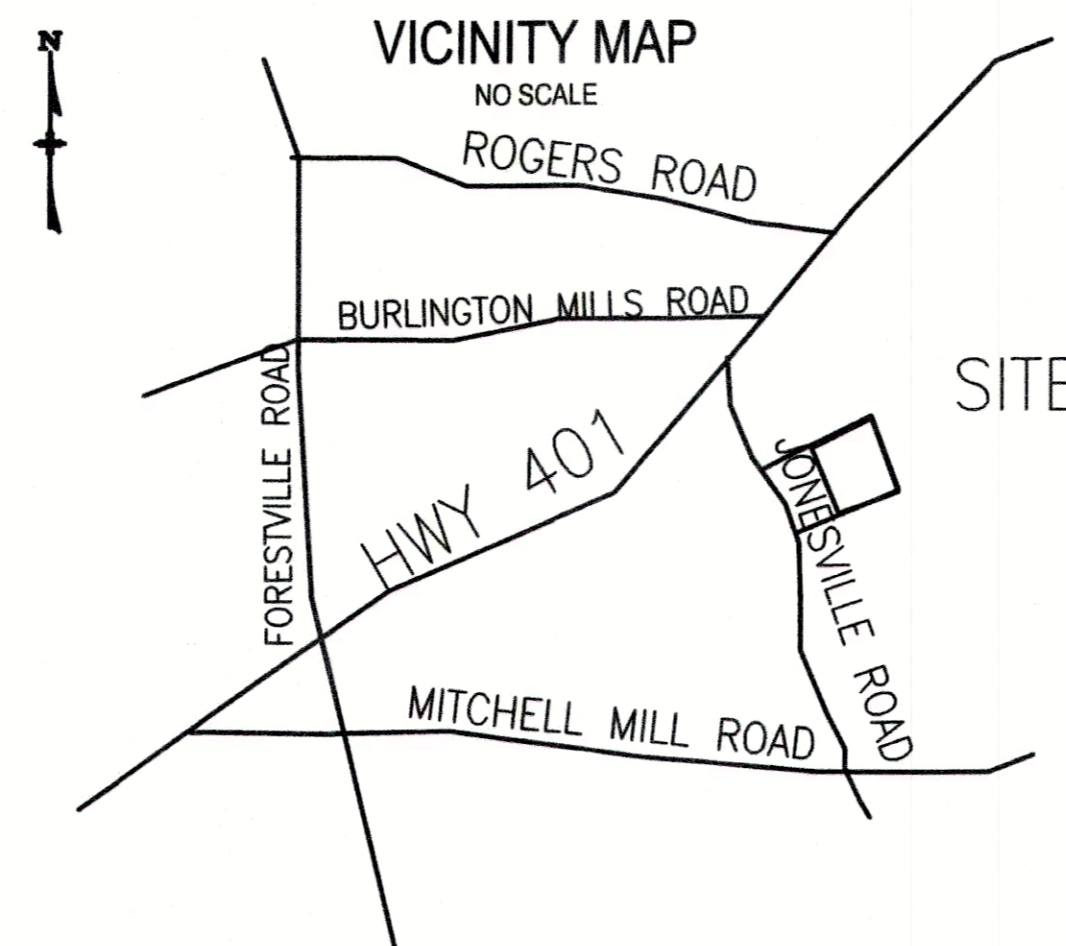
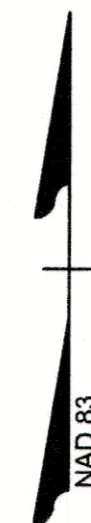
SURVEYOR:  
THE WOODCOCK GROUP PLLC  
PO BOX 336  
YOUNGSVILLE NC 27596  
919-522-7253

OWNER/DEVELOPER:  
CARLTON GROUP OF NORTH CAROLINA LLC  
95 NEW CLARKSTOWN ROAD  
NANUET NY, 10954  
914-403-7852

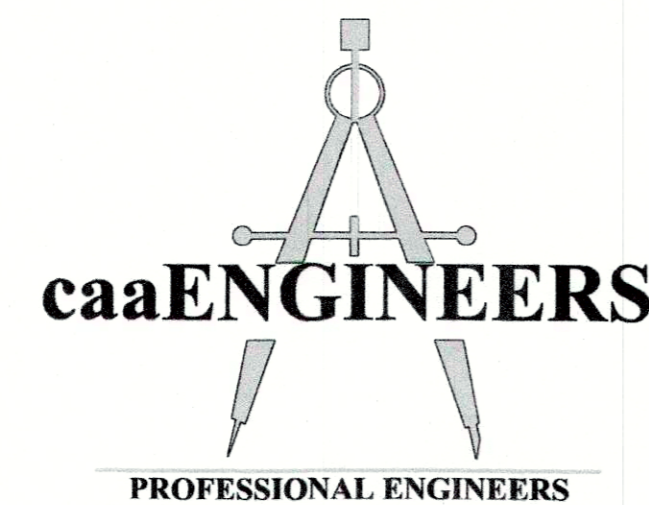
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MAC MCINTYRE, P.E.  
4932-B WINDY HILL DRIVE  
RALEIGH, NC 27609  
PH. (919) 427-5227  
MACMCINTYREPE@GMAIL.COM

### SHEET INDEX

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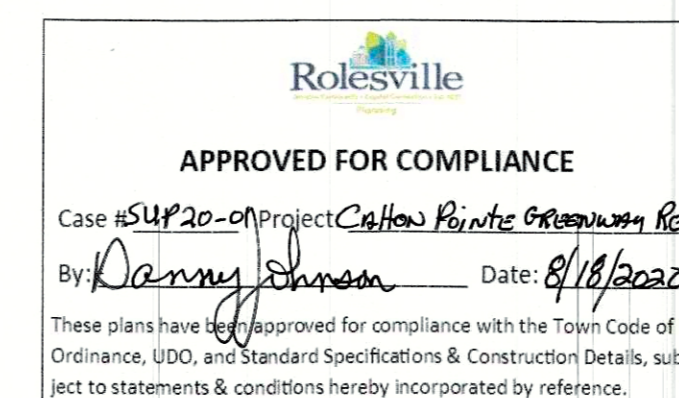
VICINITY MAP



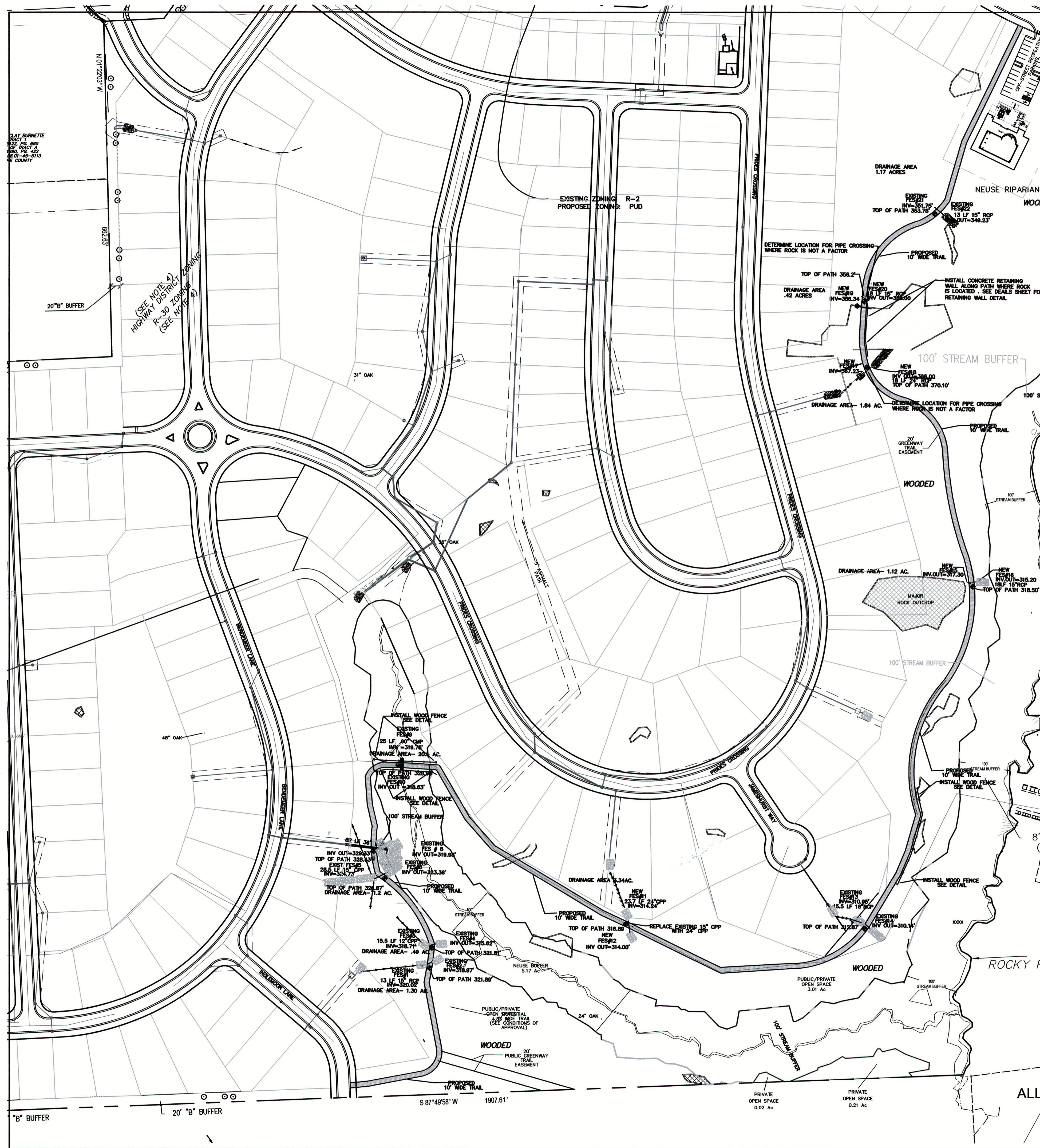
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Wake Forest, North Carolina 27587  
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### NOTES:

1. THESE PLANS ARE FOR FINAL PHASE TRAIL AND STORM DRAINAGE ACROSS TRAIL
2. CONSTRUCTION METHODS AND INSTALLATION SHALL BE PER TOWN OF ROLESVILLE STANDARDS AND SPECIFICATIONS

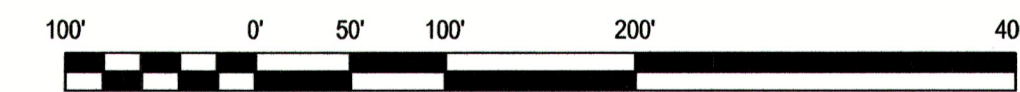




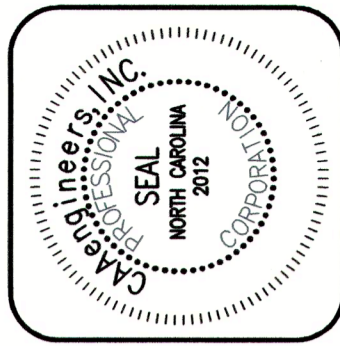


**Storm Drainage Calculations**

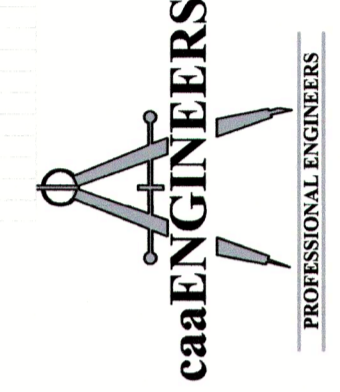
Structure From To	A	Length of Inlet	Height of Water	Time of Conc.	Storm Intensity	C	Q For Inlet	Q Total	Slope	n	Calc. Pipe Size	Prop. Pipe Size	Vall	Pipe Length	Invert In	Invert Out	CB Top	Stone Size	Pad Thickness	Zone	Pad Width	Pad Length	Pad Invert	Pad Invert	Headwater Pipe Depth	Flow	Depth	Flow	Depth	Flow	Depth	
FES #1	RCP	1.00	0	1	5	7.22	0.55	5.2	5.2	0.0077	0.0130	9.6	15	13.7	15.50	300.02	318.97	NA	6	18	2	4.25	7.5	3.75	3.75	1.20	1.50	320.53	321.89	1.30		
FES #2	CPP	0.49	0	1	5	7.22	0.55	1.9	1.9	0.1994	0.0120	5.3	12	10.5	15.50	318.71	315.62	NA	6	18	2	3.4	6	3	3	0.87	0.87	315.45	321.81	6.26		
FES #3	CPP	1.20	0	1	5	7.22	0.55	4.8	4.8	0.0913	0.0120	8.6	15	15.9	15.50	324.73	323.36	NA	6	24	3	5.25	10	3.75	5	1.15	1.44	324.80	328.87	2.07		
FES #4	CPP	20.50	0	1	5	9.72	0.55	199.6	199.6	0.048	0.0250	41.8	60	14.2	25.00	319.75	318.63	NA														
FES #5	CPP	3.34	0	1	5	7.22	0.55	13.3	13.3	0.0300	0.0120	19.0	24	7.2	24.00	314.24	314.00	NA	6	18	2	6.8	12	6	6	1.05	2.10	318.10	318.89	0.79		
FES #6	RCP	0.90	0	1	5	7.22	0.55	2.4	2.4	0.0193	0.0130	10.2	18	6.0	15.50	309.16	309.00	NA	6	18	2	5.1	9	4.5	4.5	0.55	3.10	312.10	312.87	0.77		
FES #7	RCP	1.12	0	1	5	7.22	0.55	4.4	4.4	0.1187	0.0130	8.2	15	18.0	18.00	317.30	315.20	NA	13	24	3	5.5	10	3.75	5	1.1	1.30	315.50	318.00	1.50		
FES #8	RCP	1.84	0	1	5	7.22	0.55	7.3	7.3	0.0667	0.0130	11.0	24	18.6	18.00	327.20	326.00	NA	9	18	2					6	6	0.80	1.30	327.20	329.10	2.24
FES #9	RCP	0.42	0	1	5	7.22	0.55	1.7	1.7	0.0744	0.0130	6.2	15	14.3	18.00	306.34	305.00	NA	2	4	2					3.75	3.75	0.60	0.81	305.81	327.00	1.10
FES #10	RCP	1.17	0	1	5	7.22	0.55	4.6	4.6	0.1945	0.0130	7.6	15	23.2	13.00	301.76	349.29	NA	13	24	3	5.25	10	3.75	5	1.50	1.54	301.17	303.70	2.51		



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE STANDARDS, SPECIFICATIONS, AND DETAILS



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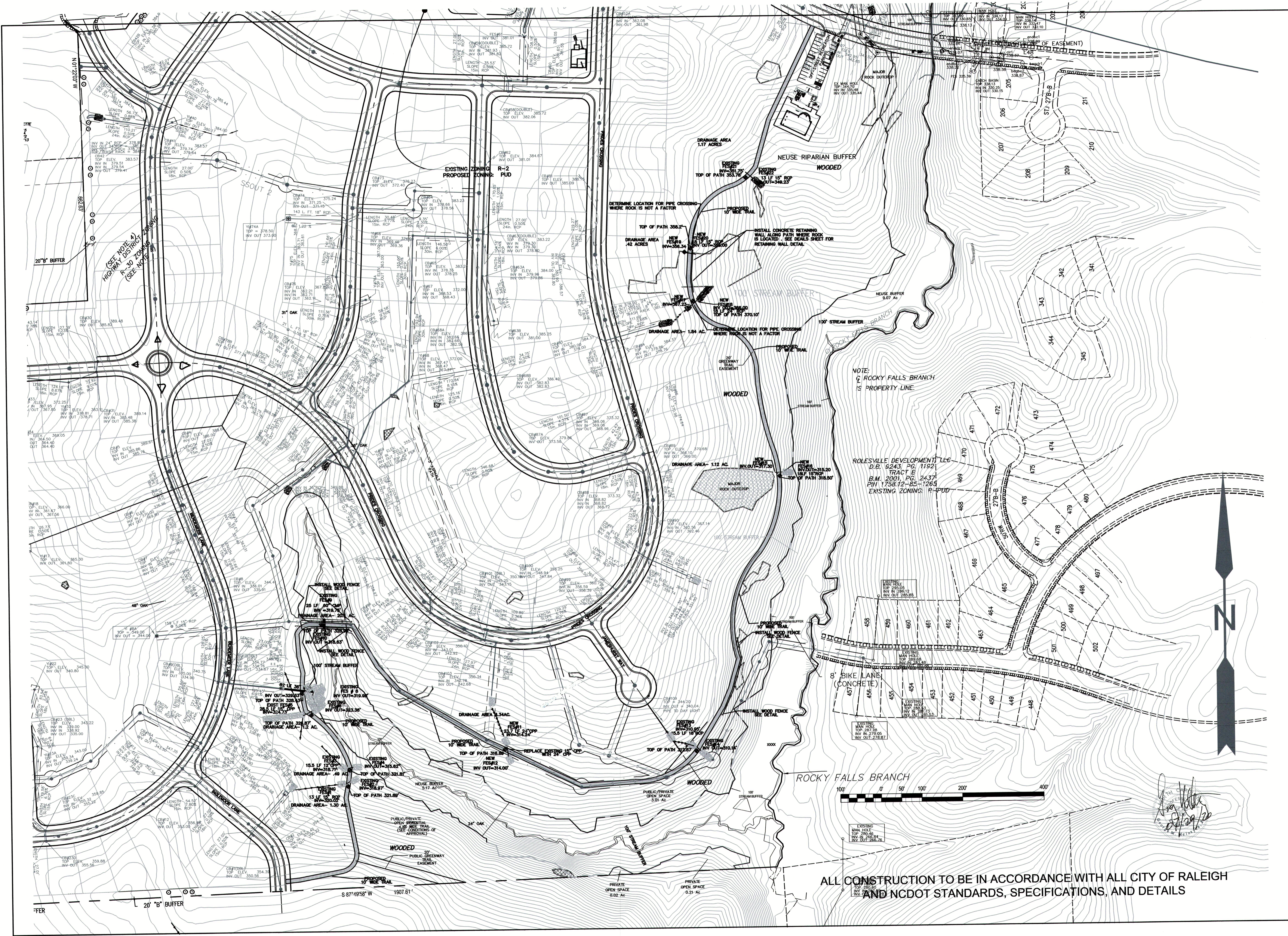
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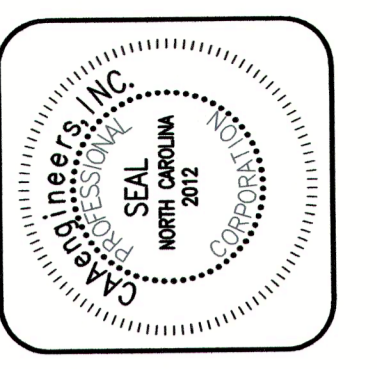
**OVERALL TRAIL PLAN**  
 CARLTON POINTE SUBDIVISION  
 ROLESVILLE, NORTH CAROLINA

Job No. 3501  
 Dwg No. **C-1**

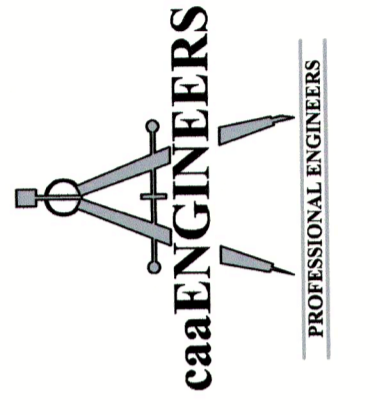




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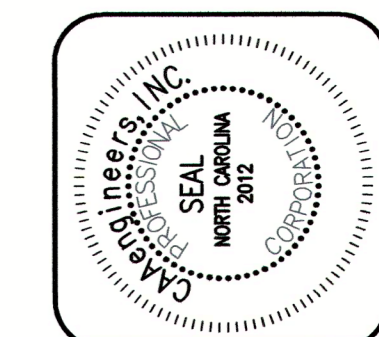
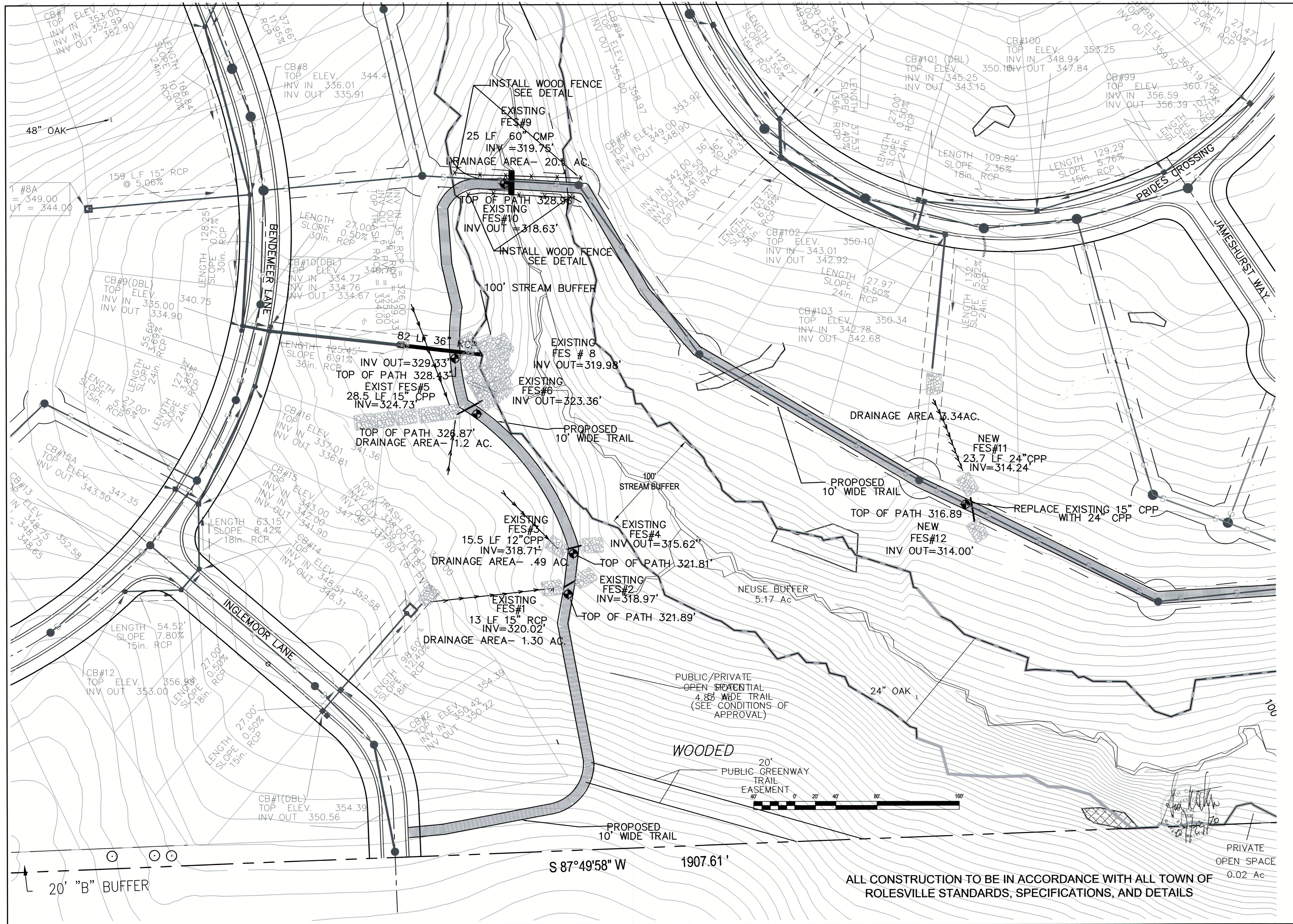
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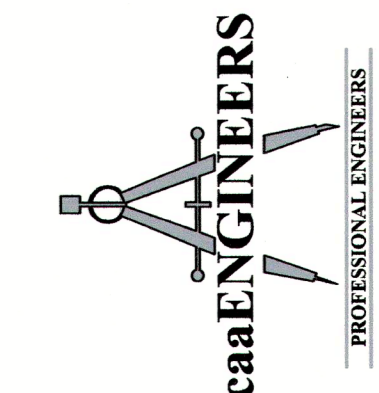
**OVERALL TRAIL PLAN**  
 CARLTON POINTE SUBDIVISION  
 ROLESVILLE, NORTH CAROLINA

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**TRAIL BLOW UP - SECTION 1**  
 CARLTON POINTE SUBDIVISION  
 ROLESVILLE, NORTH CAROLINA

Job No. 3501  
 Dwg No. **C-3**



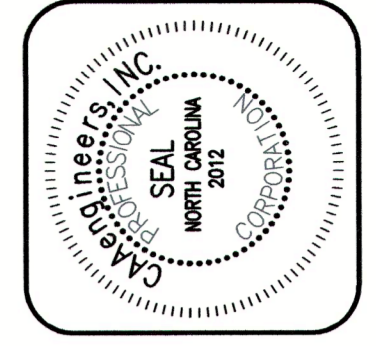
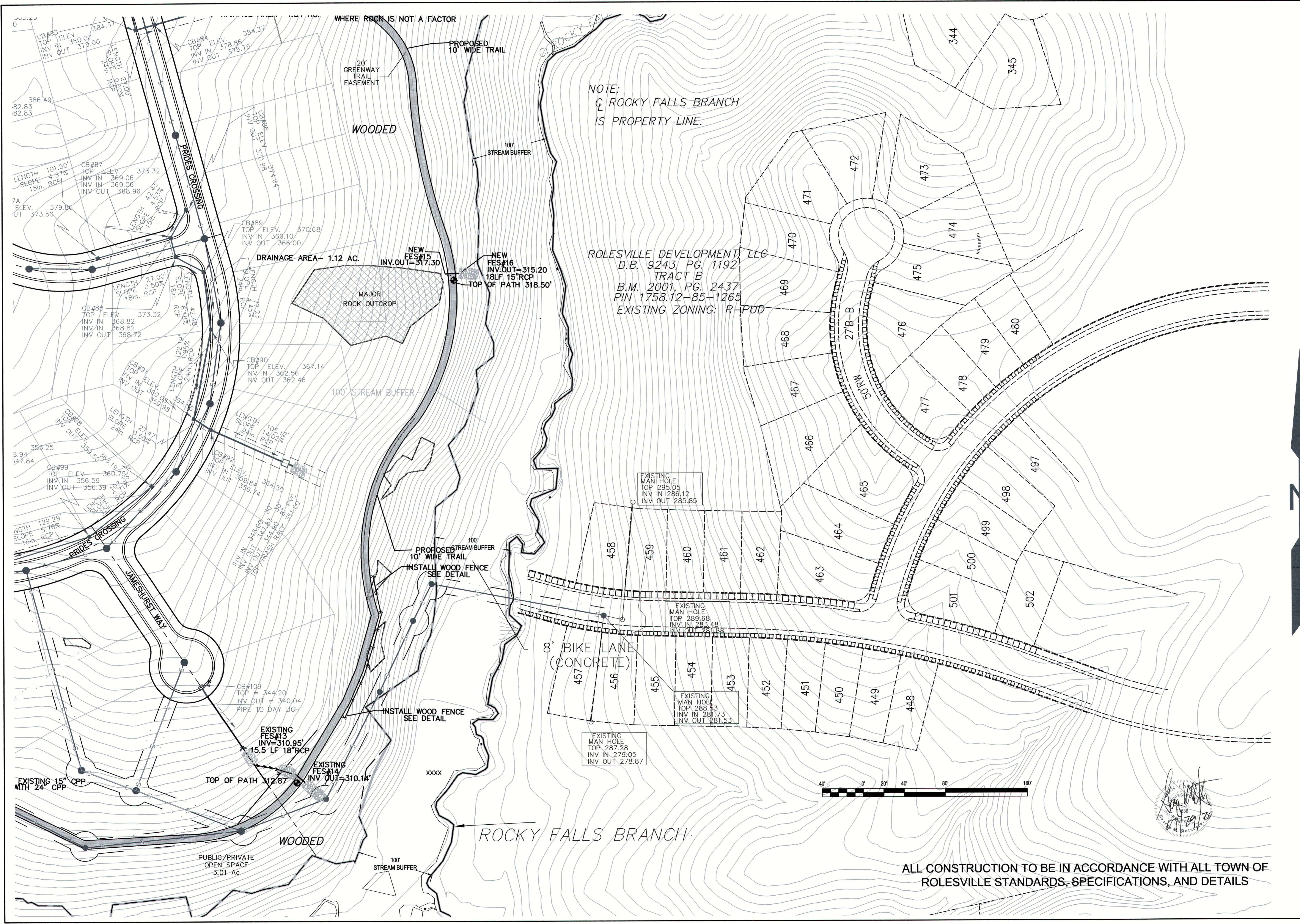
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PRIVATE OPEN SPACE  
 0.02 Ac

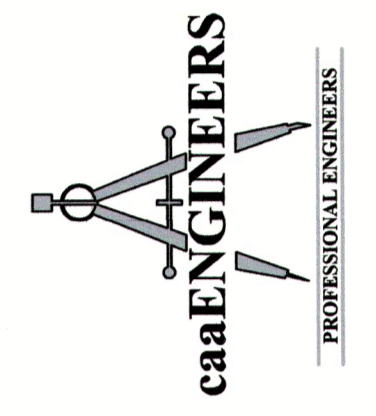
S 87°49'58" W 1907.61'

20' "B" BUFFER





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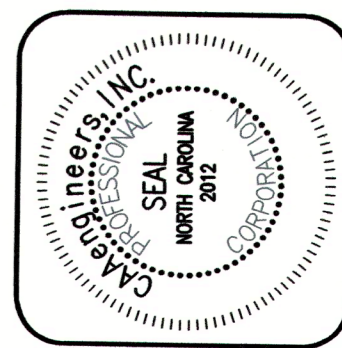
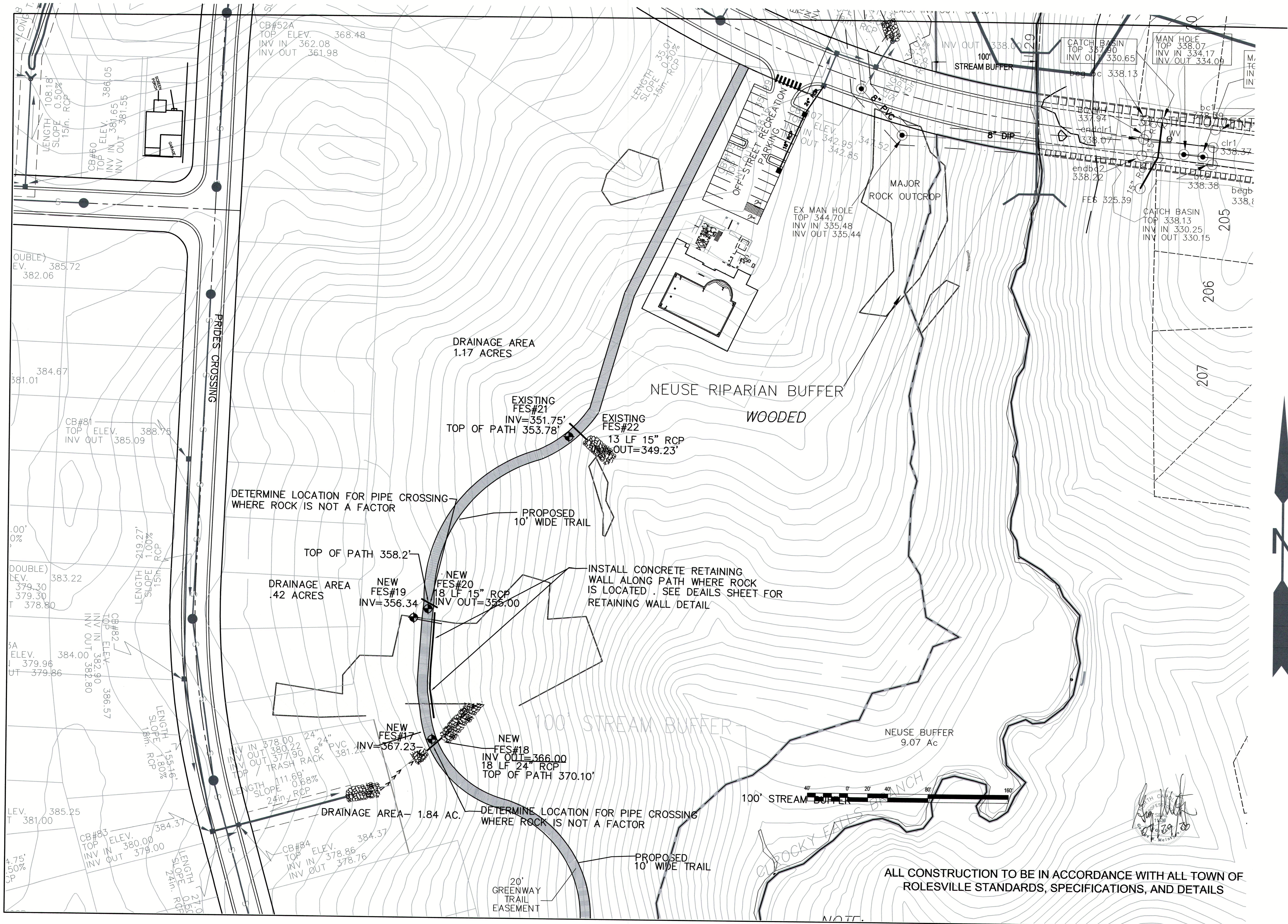
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**TRAIL BLOWUP = SECTION 2**  
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 ROLESVILLE, NORTH CAROLINA

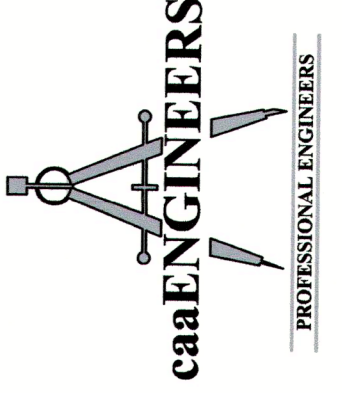
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 Dwg No. **C-4**

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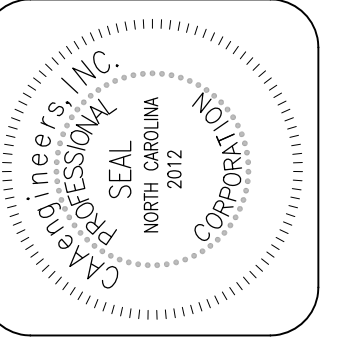


**TRAIL BLOW UP- SECTION 3**  
 CARLTON POINTE SUBDIVISION  
 ROLESVILLE, NORTH CAROLINA

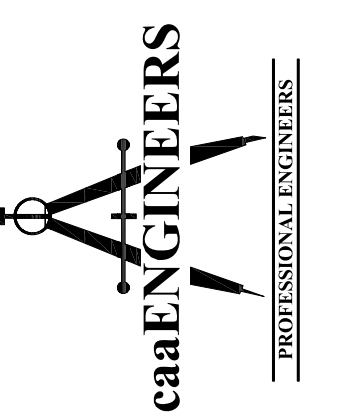
Job No. 3501  
 Dwg No. **C-5**

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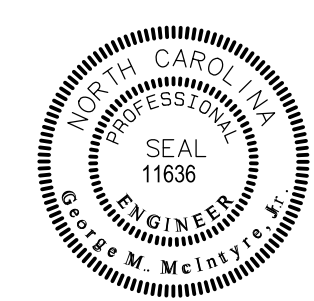


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10		Design	

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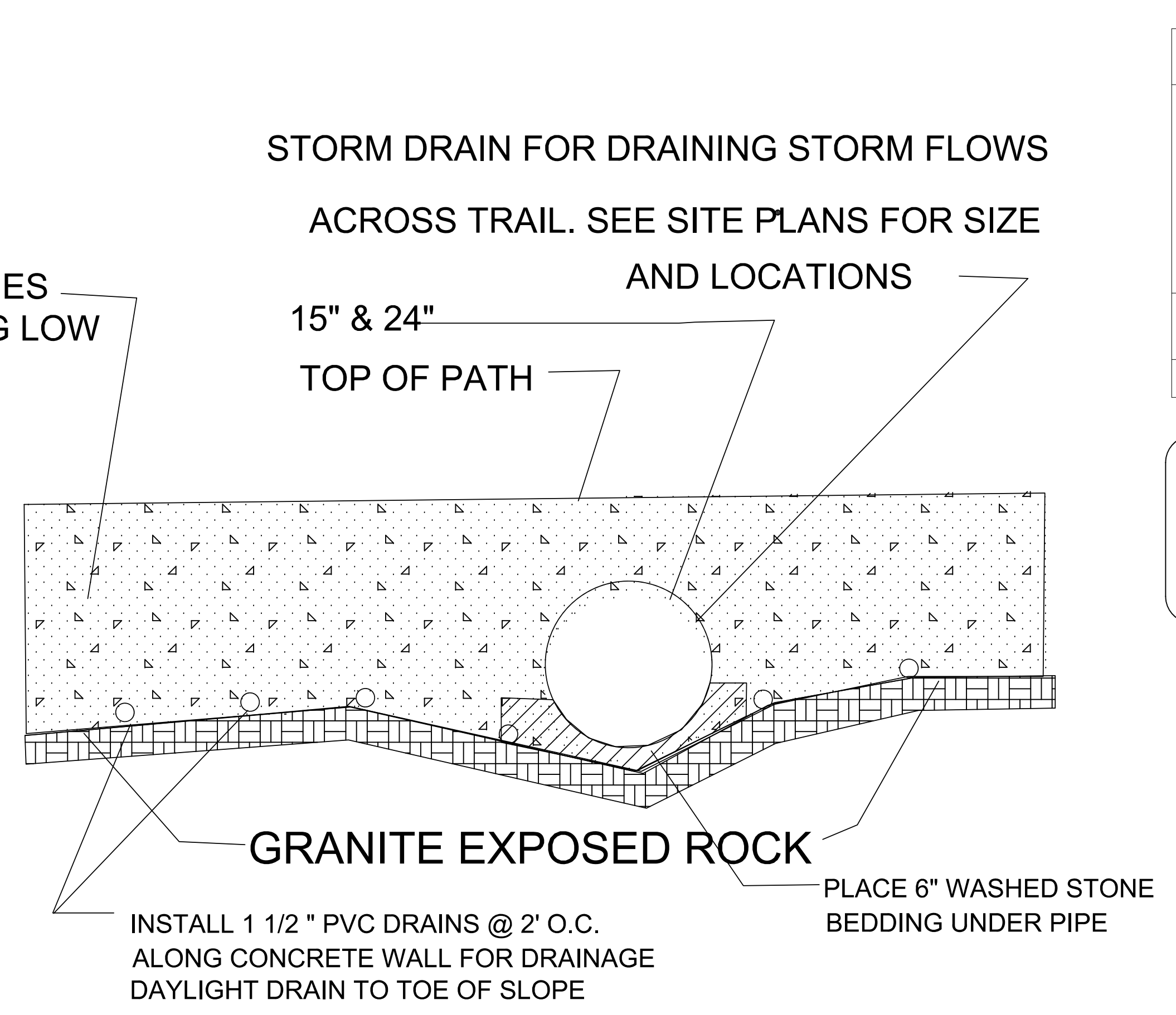
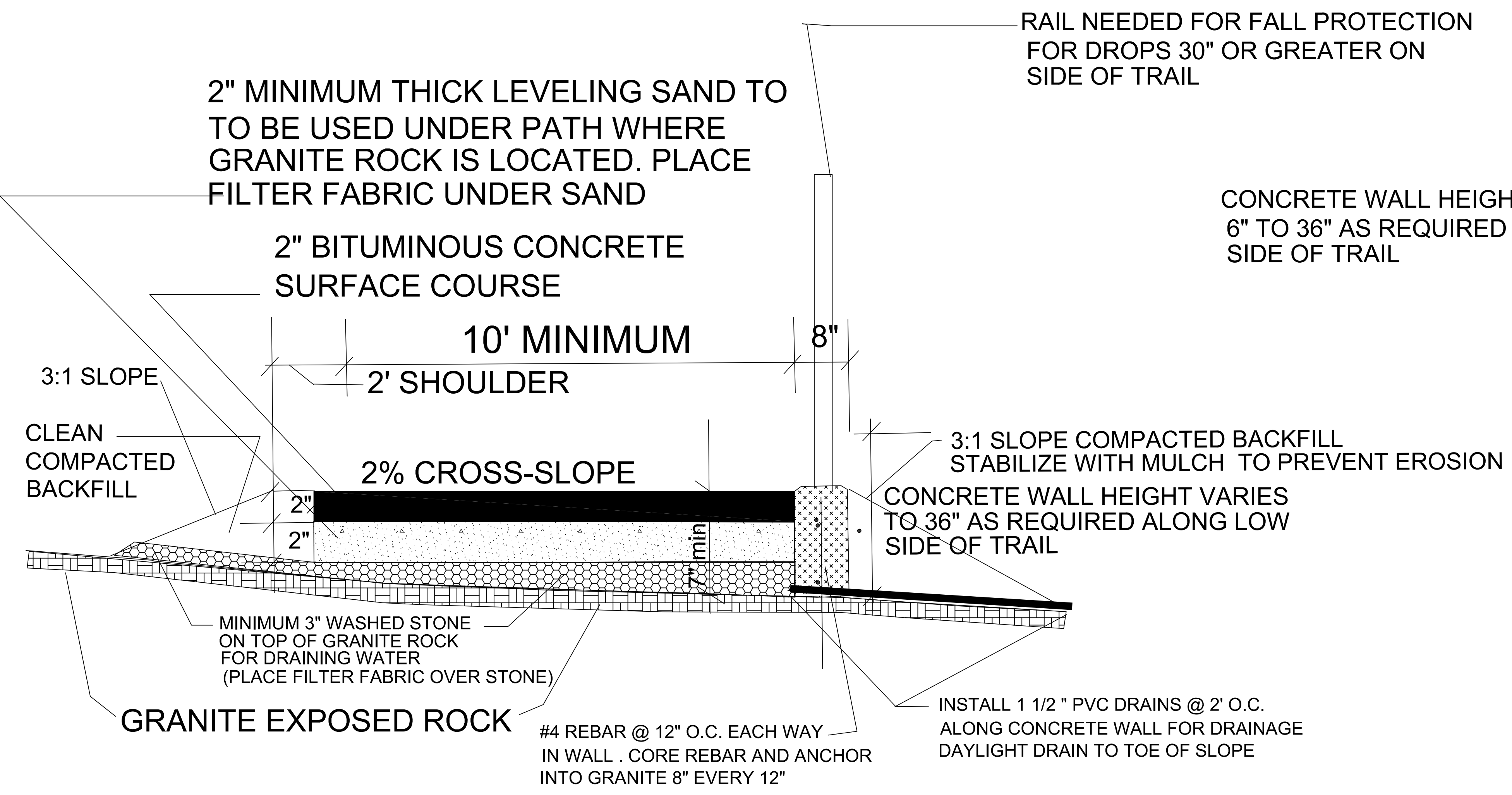
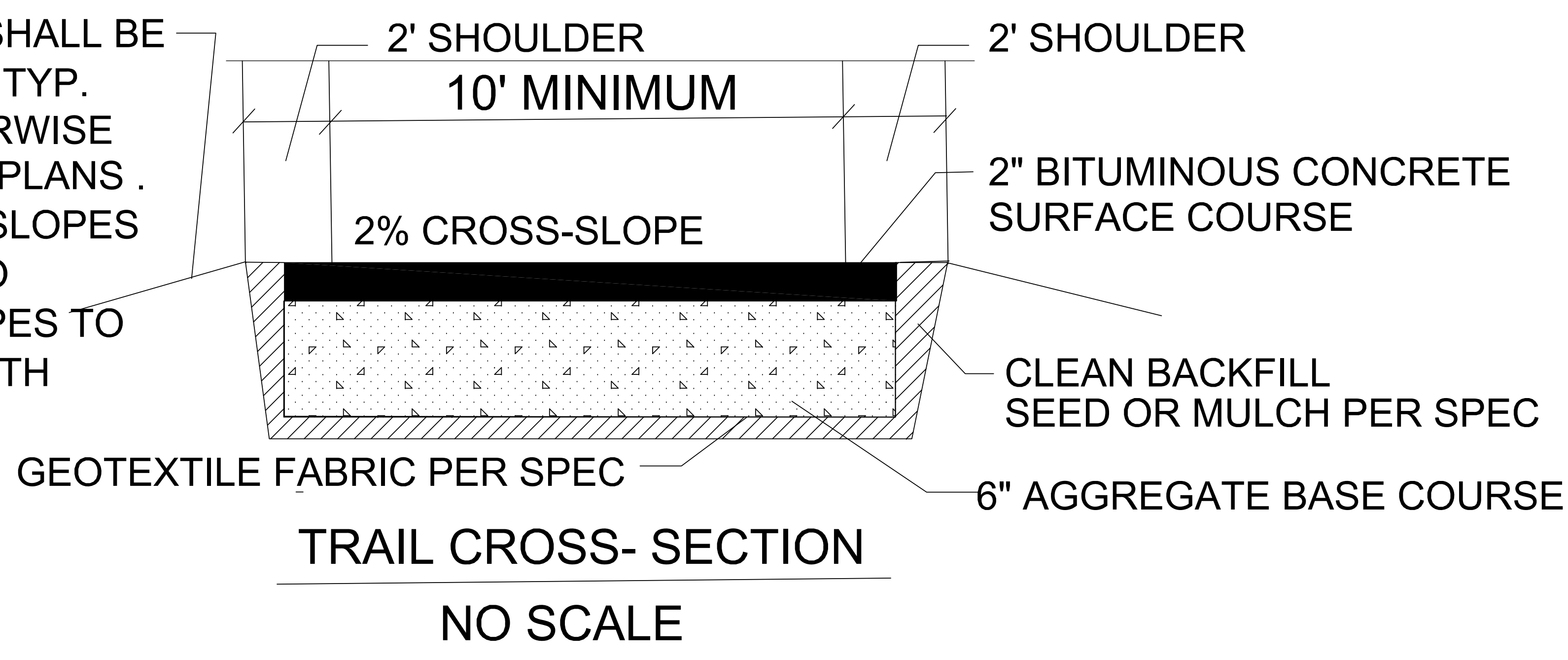
**Detail Sheet**  
 CARLTON POINTE TRAIL  
 ROLESVILLE, NORTH CAROLINA

Job No. 3501  
 Dwg No. **D-1**



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF  
 RAROLESVILLE STANDARDS, SPECIFICATIONS, AND DETAILS

SIDE SLOPES SHALL BE  
 LESS THAN 3:1 TYP.  
 UNLESS OTHERWISE  
 SPECIFIED ON PLANS .  
 CUT AND FILL SLOPES  
 SHALL TIE INTO  
 EXISTING SLOPES TO  
 CREATE SMOOTH  
 TRANSITION



**TYPICAL TRAIL CROSS- SECTION @ ROCK FORMATION**

**TYPICAL TRAIL CROSS- SECTION @ ROCK FORMATION**

PARALLEL WITH TRAIL

NO SCALE

NO SCALE