

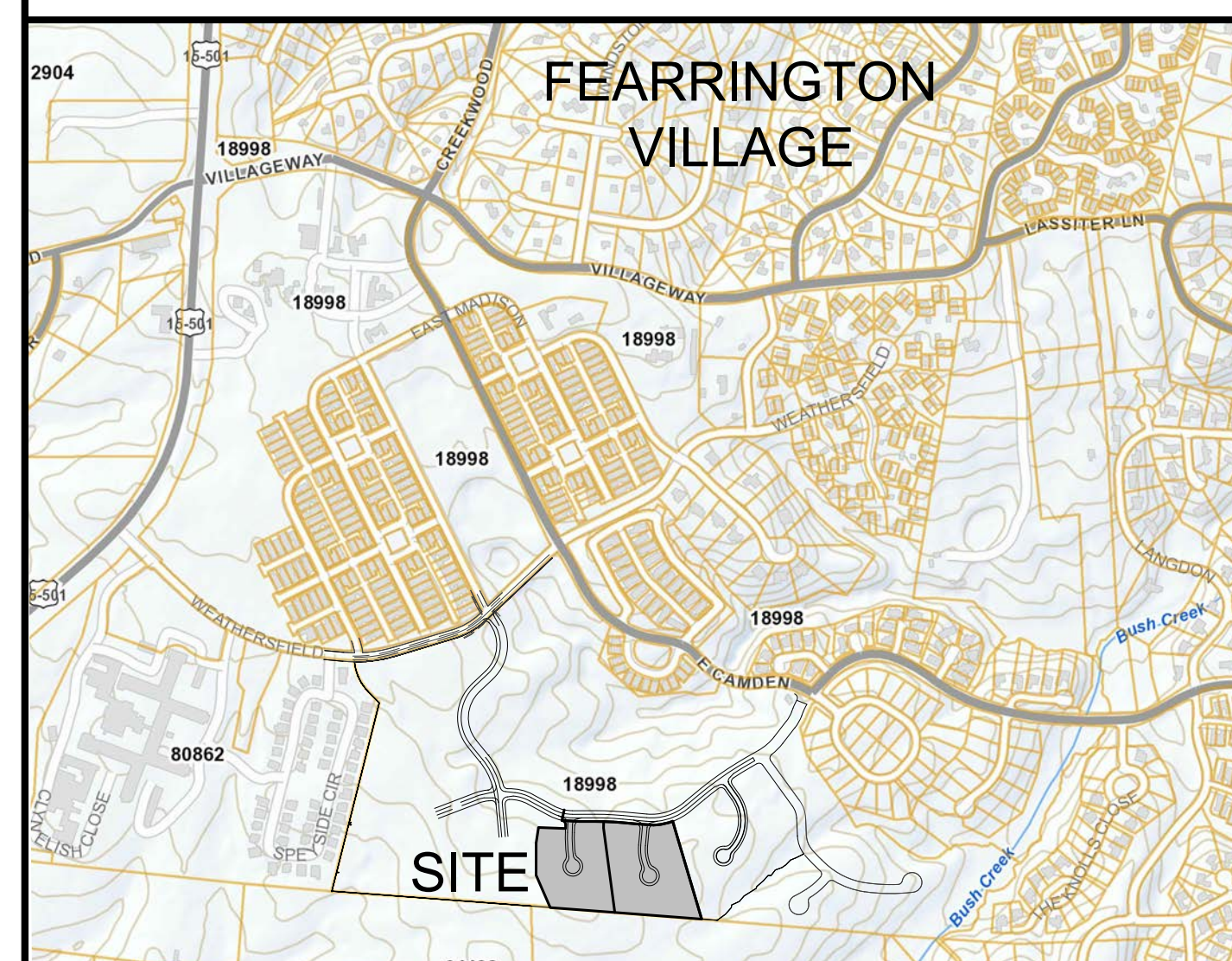
# FEARRINGTON PLANNED UNIT DEVELOPMENT

SECTION X AREA D PHASE 2 & 3  
MONTGOMERY



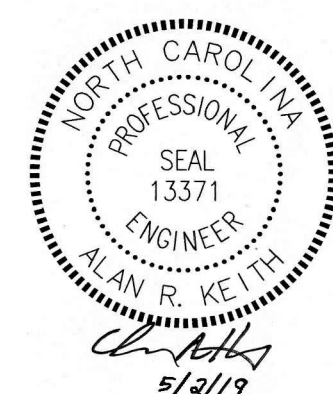
OWNER & DEVELOPER:  
FITCH CREATIONS, INC.  
2000 FEARRINGTON VILLAGE CENTER  
PITTSBORO, N.C. 27312  
(919) 542-2000  
RB@FEARRINGTON.COM

WILLIAMS TOWNSHIP  
PIN 9774 43 1655 PART  
PARCEL 18998  
ZONE: CUP RA-40



VICINITY MAP  
NOT TO SCALE

Received  
electronically  
by NCDOT  
District 1/  
Div 8  
05/09/2019



PLANS PREPARED BY:  
**DIEHL & PHILLIPS, P.A.**

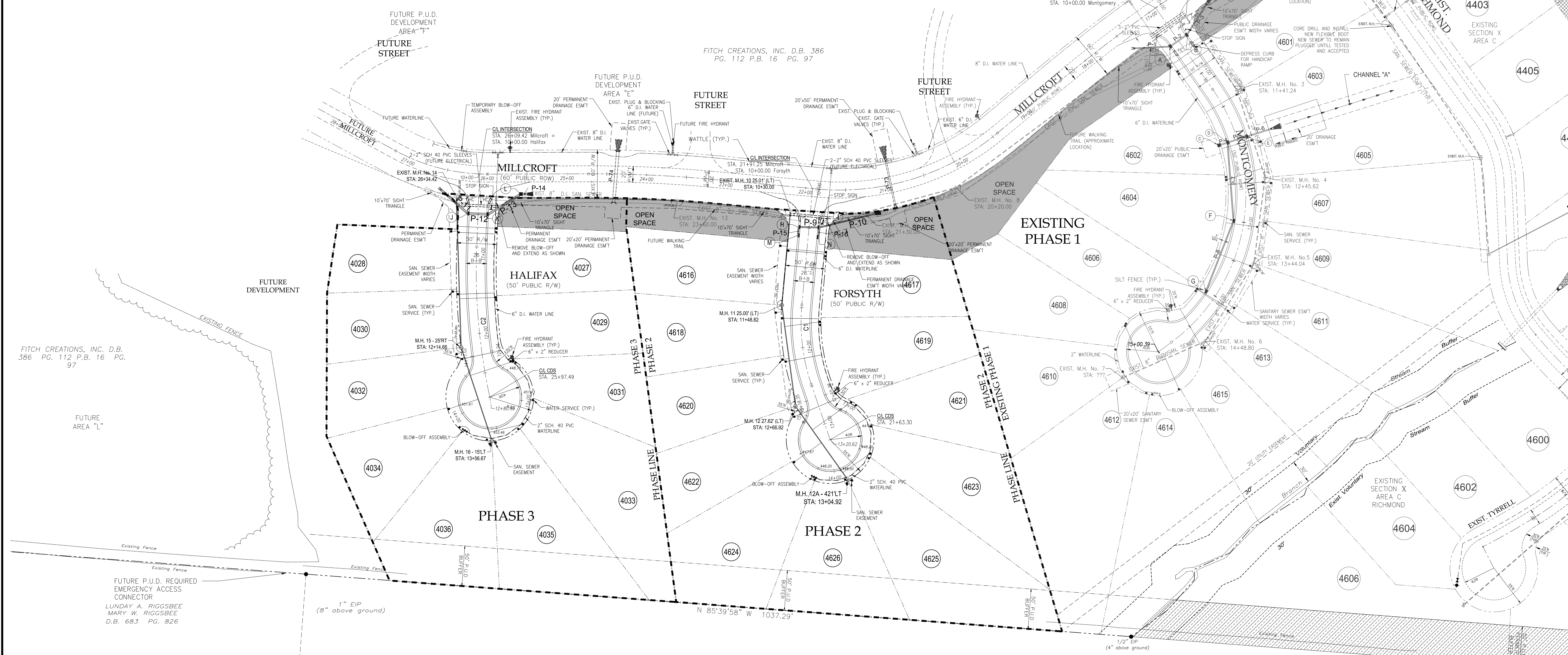
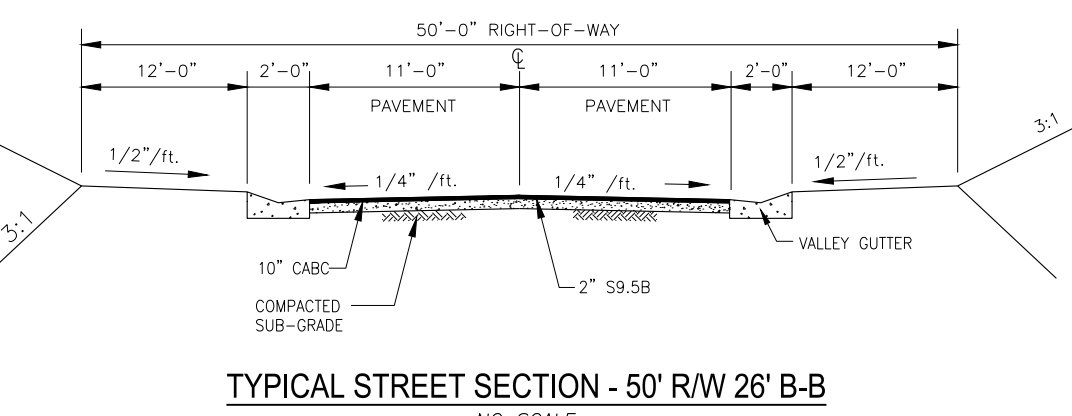
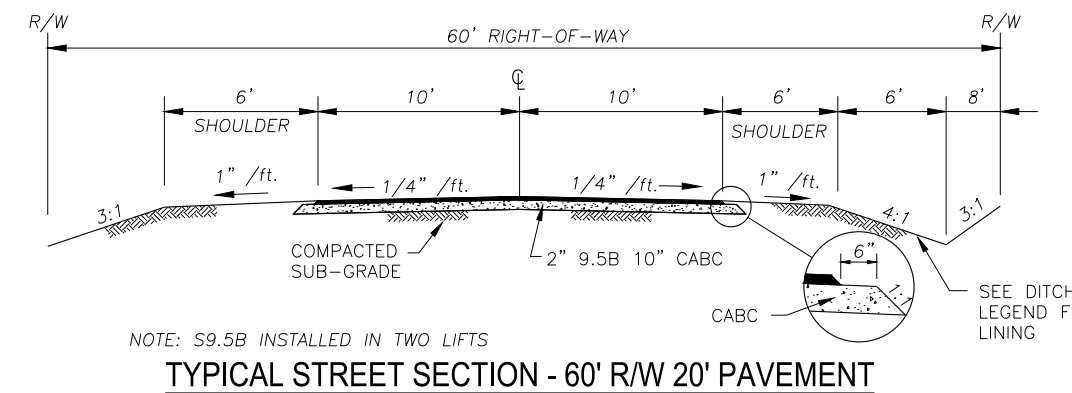
CONSULTING ENGINEERS - LIC. NO. C-0465  
1500 PINEY PLAINS ROAD, SUITE 200  
CARY, N.C. 27518 • (919) 467-9972

**NOTES**

- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SURVEY INFORMATION FROM VAN FINCHLAND SURVEYS, PITTSBORO, NC
- SITE LAYOUT BY SEARS DESIGN GROUP.
- ALL PUBLIC STREET CONSTRUCTION SHALL BE IN COMPLIANCE WITH NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
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- STOP SIGNS SHALL BE INSTALLED AS SHOWN. SIGNS SHALL BE RETROREFLECTIVE PER NCDOT & MUTCD STANDARDS MOUNTED ON 350 CRASH COMPLIANT POST.
- CURB INLETS SHALL BE NCDOT STANDARD 840.02. YARD INLETS SHALL BE NCDOT STANDARD 840.14.

**NOTES:**

ALL BLOW-OFF ASSEMBLIES SHALL BE DIRECTED AWAY FROM ANY TRAVEL LANE.  
 ALL BLOW-OFF VALVES, VAULTS, MANHOLES, AND OTHER APPURTENANCES WITHIN THE PROPOSED NCDOT RIGHT-OF-WAY SHALL BE LOCATED BEHIND THE DITCH AND AT THE RIGHT-OF-WAY LINE. MANHOLES AND/OR VAULTS SHALL NOT BE PLACED IN THE DITCH LINE SIDE SLOPES OF DITCHES OR IN THE PAVEMENT.



FITCH CREATIONS, INC. D.B. 386 PG. 112 P.B. 16 PG. 97

FUTURE P.U.D. REQUIRED EMERGENCY ACCESS CONNECTOR  
 LINDAY A. RIGGSBEE  
 MARY W. RIGGSBEE  
 D.B. 683 PG. 826

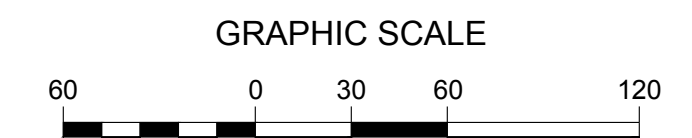
T.H. LINGERFELDT  
 D.B. JE P6 245

T.H. LINGERFELDT  
 D.B. JE PG. 245

This Revised Sheet Received electronically by NCDOT District 1/ Div 8 05/24/2019

**SUBDIVISION & UTILITY PLAN - PHASES 2 & 3**

SCALE: 1" = 60'



JOB NO. ?  
 DESIGN ARK  
 DRAWN MAT  
 CHECKED ARK  
 SCALE 1" = 60'  
 FILE Montgomery Phase 2, 3  
 REVISIONS: REVISED PLAN FOR PHASE 1 GRADING ONLY  
 DIEHL & PHILLIPS, P.A.  
 CONSULTING ENGINEERS - L.L.C. NO. C-0465  
 1500 Piney Plains Rd., Suite 200  
 CARY, N.C. 27518 • (919) 467-9972  
 D&P  
 FEARRINGTON SECTION X AREA D PHASE 2 & 3  
 CHATHAM COUNTY, NORTH CAROLINA  
 MONTGOMERY SUBDIVISION & UTILITY PLAN - PHASES 2 & 3  
 SHEET 1 OF 10

**CONSTRUCTION SEQUENCE - Phase 2 & 3**

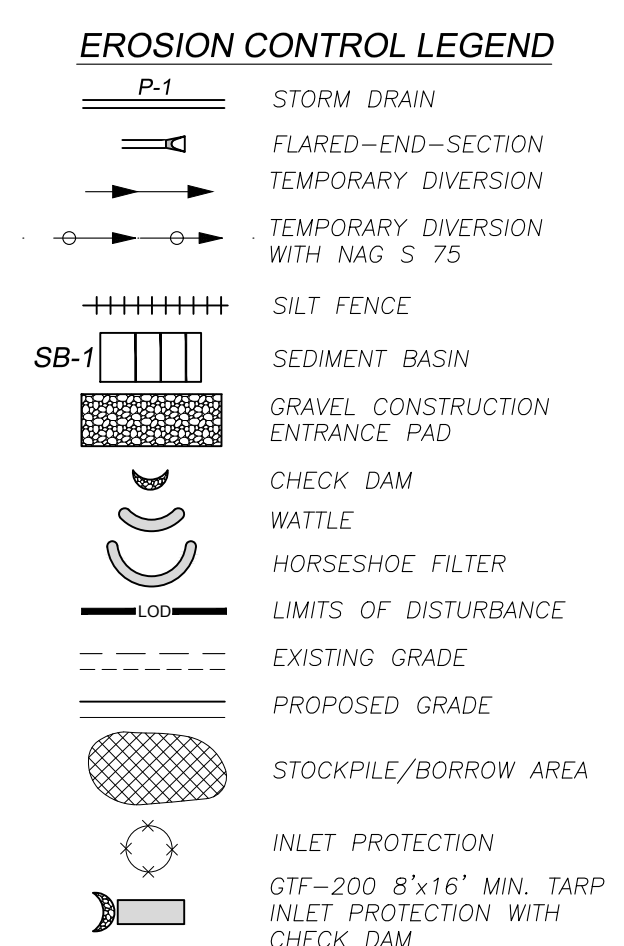
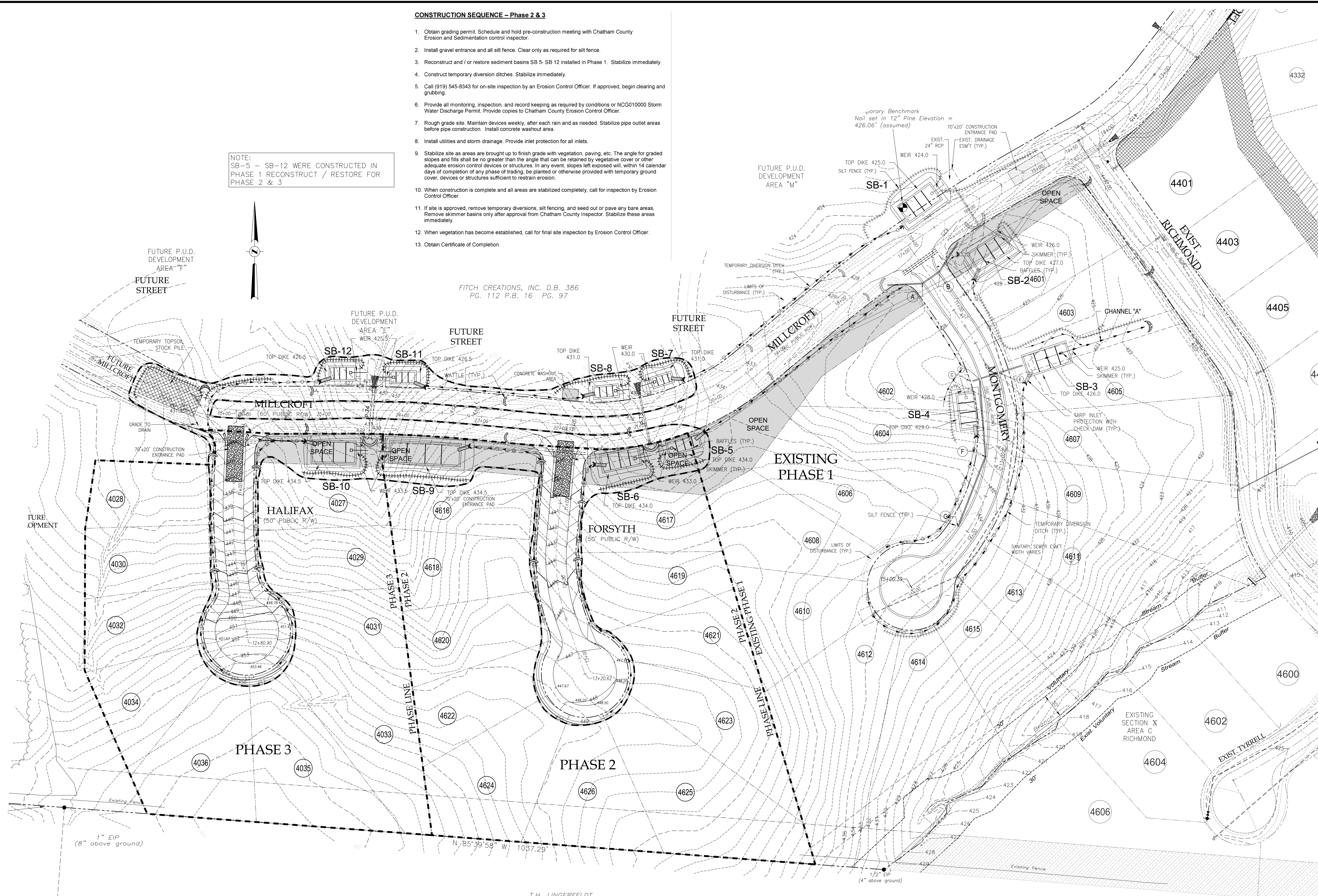
1. Obtain grading permit. Schedule and hold pre-construction meeting with Chatham County Erosion and Sedimentation control inspector.
2. Install gravel entrance and all silt fence. Clear only as required for silt fence.
3. Reconstruct and / or restore sediment basins SB 5- SB 12 installed in Phase 1. Stabilize immediately.
4. Construct temporary diversion ditches. Stabilize immediately.
5. Call (919) 545-8343 for on-site inspection by an Erosion Control Officer. If approved, begin clearing and grubbing.
6. Provide all monitoring, inspection, and record keeping as required by conditions of NCG10000 Storm Water Discharge Permit. Provide copies to Chatham County Erosion Control Officer.
7. Rough grade site. Maintain devices weekly, after each rain and as needed. Stabilize pipe outlet areas before pipe construction. Install concrete washout area.
8. Install utilities and storm drainage. Provide inlet protection for all inlets.
9. Stabilize site as areas are brought up to finish grade with vegetation, paving, etc. The angle for graded slopes and fills shall be no greater than the angle that can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, slopes left exposed will, within 14 calendar days of completion of any phase of grading, be planted or otherwise provided with temporary ground cover, devices or structures sufficient to restrain erosion.
10. When construction is complete and all areas are stabilized completely, call for inspection by Erosion Control Officer.
11. If site is approved, remove temporary diversions, silt fencing, and seed out or pave any bare areas. Remove skimmer basins only after approval from Chatham County Inspector. Stabilize these areas immediately.
12. When vegetation has become established, call for final site inspection by Erosion Control Officer.
13. Obtain Certificate of Completion.

NOTE:  
SB-5 - SB-12 WERE CONSTRUCTED IN  
PHASE 1 RECONSTRUCT / RESTORE FOR  
PHASE 2 & 3

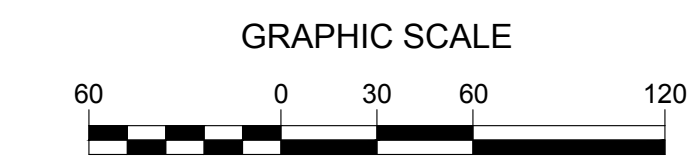
**NOTES**

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9. CURB INLETS SHALL BE NCDOT STANDARD #40.02. YARD INLETS SHALL BE NCDOT STANDARD #40.14.

JOB NO. ?  
 DESIGN: ARK  
 DRAWN: MAT  
 CHECKED: ARK  
 SCALE: 1" = 60'  
 FILE: Montgomery of Fayetteville Phase 2, 2.14a  
 REVISIONS:  
 DIEHL & PHILLIPS, P.A.  
 CONSULTING ENGINEERS - LIC. NO. C-0465  
 1500 Piney Plains Rd., Suite 200  
 CARY, N.C. 27518 • (919) 467-9972  
 D&P  
 FEARRINGTON SECTION X  
 AREA D PHASE 2 & 3  
 CHATHAM COUNTY, NORTH CAROLINA  
 EROSION CONTROL  
 STAGE 1 - CLEARING & GRUBBING  
 SHEET 2 OF 10



TOTAL DISTURBED AREA = 2.68 AC.



**Sediment Basin Schedule**

Basin No.	Tributary Dist. Area AC	Total DA AC	Basin Size			Surface Area Sq. Ft.	Basin Volume Cu. Ft.	Storage Life	Weir Length Ft	Skimmer Size (Dia) In	Orifice Dia. In
			L* Ft	W* Ft	Depth** Ft						
SB-1	0.33	0.35	48	23	3	1,104	2,178	1year	10	3	0.50
SB-2	0.58	0.66	49	24	3	1,176	2,358	1year	10	3	0.75
SB-3	0.31	0.31	55	25	3	1,375	2,829	1year	10	3	0.75
SB-4	0.32	0.51	43	20	3	860	1,590	1year	10	2	0.75
SB-5	0.08	0.35	40	15	3	600	954	1year	10	2	0.50
SB-6	0.42	0.56	47	20	3	940	1,758	1year	10	2	0.75
SB-7	0.08	0.08	24	11	2	264	291	1year	10	2	0.25
SB-8	0.14	0.14	29	13	3	377	519	1year	10	2	0.50
SB-9	0.75	1.29	87	25	3	2,175	4,653	1year	10	3	1.00
SB-10	0.46	0.79	53	25	3	1,325	2,715	1year	10	3	0.75
SB-11	0.18	0.18	30	15	3	450	684	1year	10	2	0.50
SB-12	0.15	0.15	30	13	3	390	540	1year	10	2	0.50

\*Length and width are top dimensions at full basin  
 \*\*Allows one foot of flood storage

This Revised Sheet received electronically by NCDOT District 1/ Div 8 05/24/2019

**EROSION CONTROL PLAN - STAGE 1**  
 SCALE: 1" = 60'

T.H. LINGERFELDT  
 D.B. JE PG 245

T.H. LINGERFELDT  
 D.B. JE PG. 245



**CONSTRUCTION SEQUENCE - Phase 2 & 3**

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**NOTES**

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JOB NO. ?

DESIGN: ARK  
 DRAWN: MAT  
 CHECKED: ARK  
 SCALE: 1" = 60'  
 FILE: Montgomery et al  
 2.1.14

REVISIONS:

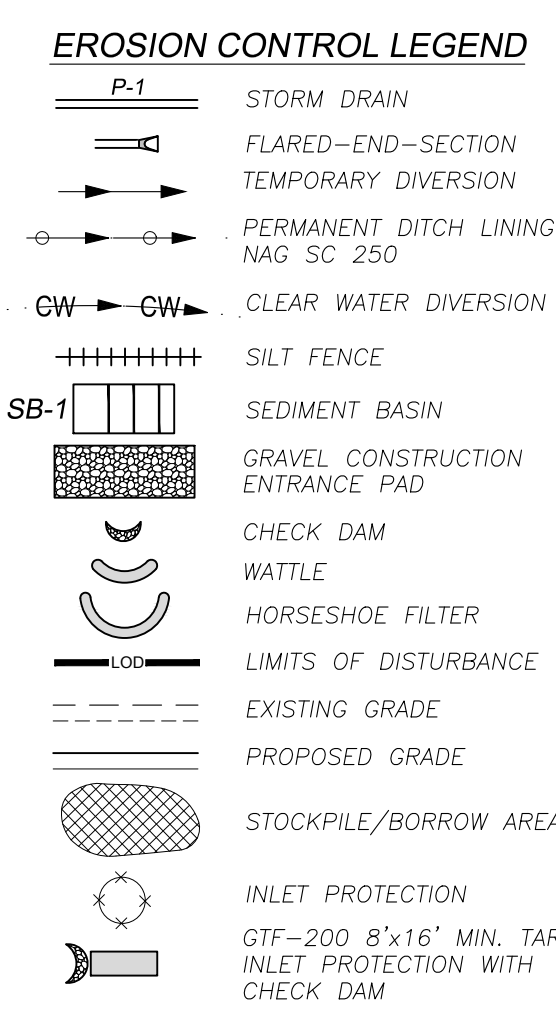
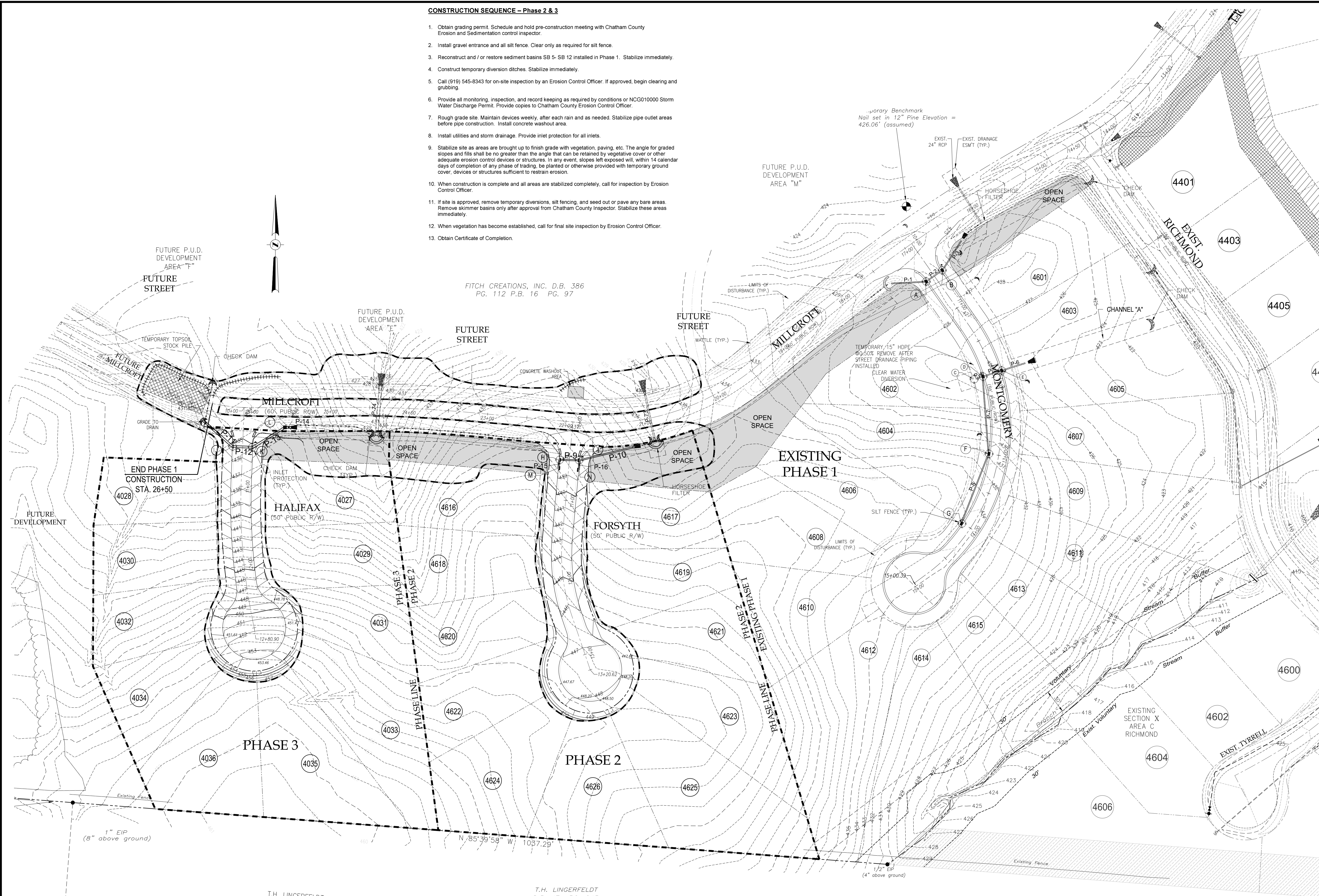
**DIEHL & PHILLIPS, P.A.**  
 CONSULTING ENGINEERS - LIC. NO. C-0465  
 1500 Piney Plains Rd., Suite 200  
 CARY, N.C. 27518 • (919) 467-9972

**D&P**

FEARRINGTON SECTION X  
 AREA D PHASE 2 & 3  
 CHATHAM COUNTY, NORTH CAROLINA

EROSION CONTROL PLAN  
 STAGE 2 - FINAL CONSTRUCTION

SHEET 3 OF 10



**VELOCITY DISSIPATOR SCHEDULE**

Pipe	V-10 Exit (Fps)	Length (Ft)	Width (Ft)	Depth (In)	Class	D50 (In)
P-10	5.7	5	4	22	B	6
P-14	5.5	12	6	22	B	6

**PIPE DATA**

Pipe	From	To	Q-10 from Inlet (cfs)	Q-10 Total in Pipe (cfs)	Material	Diameter (Inches)	Length (Feet)	Slope (%)	Capacity (cfs)
P-9	H	I	0.1	2.7	RCP	15	26.00	1.00	6.5
P-10	I	FES	0.0	4.7	RCP	15	72.00	1.00	6.5
P-11	FES	J	11.6	11.6	RCP	24	48.00	1.00	22.6
P-12	J	K	1.5	13.1	RCP	24	26.00	1.00	22.6
P-13	K	L	1.6	14.7	RCP	24	48.00	1.00	22.6
P-14	L	FES	1.6	14.7	RCP	24	8.00	1.00	22.6
P-15	M	H	2.6	2.6	RCP	15	10.50	1.00	6.5
P-16	N	I	2.0	2.0	RCP	15	12.30	1.00	6.5

**INLET DATA**

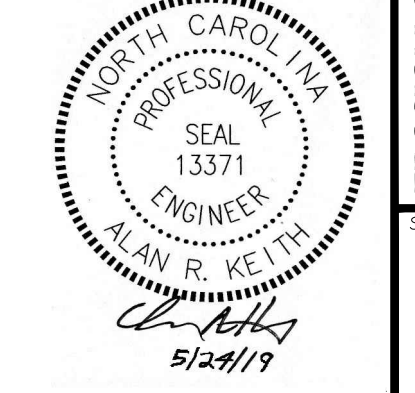
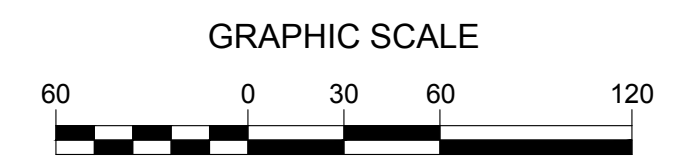
Inlet	Type	Station	Drainage Area (AC)	Q-2 (Cfs)	Q-2 Spread (Feet)	Q-10 to Inlet (Cfs)	Invert In	Invert Out	Top
H	CI	10+50 Forsyth	0.02	0.1	3.40	0.1	434.55	434.45	438.45
I	CI	10+50 Forsyth	0.01	0.0	1.84	0.0	434.19 Both	434.09	438.45
J	CI	10+50 Halifax	0.31	1.2	5.21	1.5	430.85	430.75	435.60
K	CI	10+50 Halifax	0.32	1.3	5.42	1.6	430.49	430.39	435.60
L	JB	10+28 Halifax/Millcroft	0.00	0.0	0.00	0.0	429.91	429.81	434.00
M	CI	10+60 Forsyth	0.57	1.4	4.96	2.6	434.66	434.56	438.90
N	CI	10+60 Forsyth	0.40	1.0	4.23	2.0	434.31	434.21	438.90

**EROSION CONTROL PLAN - STAGE 2**

SCALE: 1" = 60'

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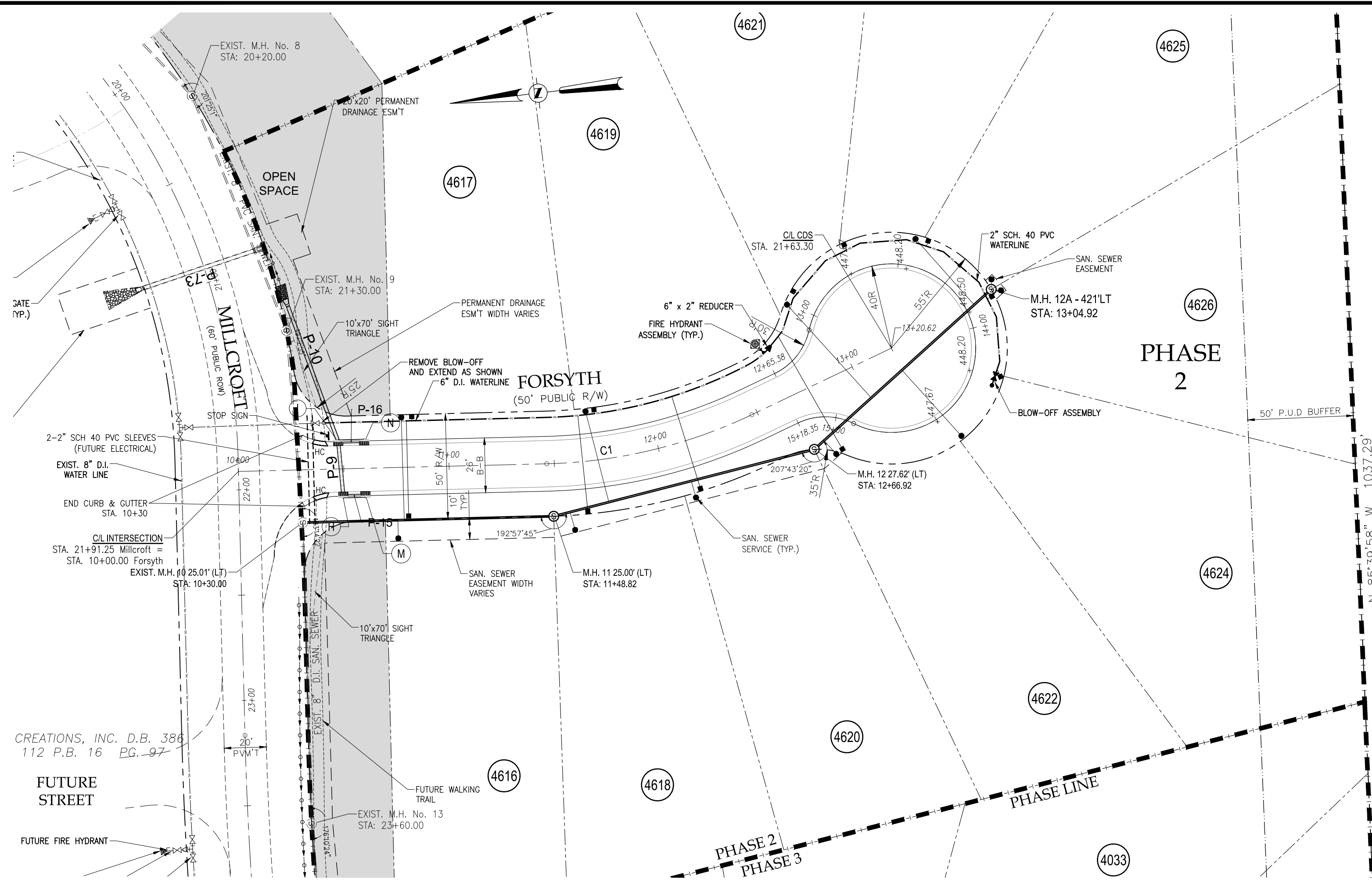
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T.H. LINGERFELDT  
D.B. JE P6 245

T.H. LINGERFELDT  
D.B. JE PG. 245

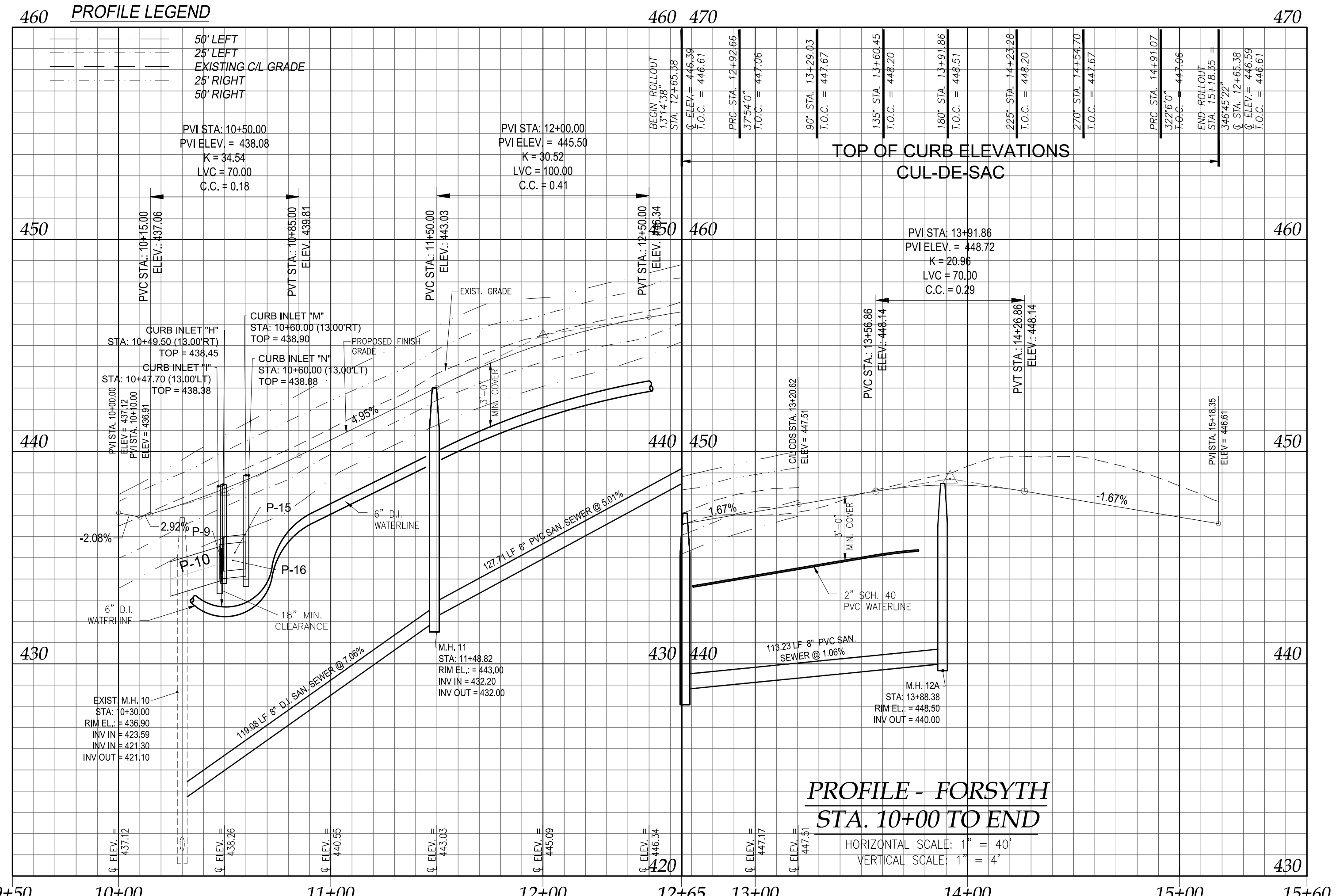
FITCH CREATIONS, INC. D.B. 386  
PG. 112 P.B. 16 PG. 97



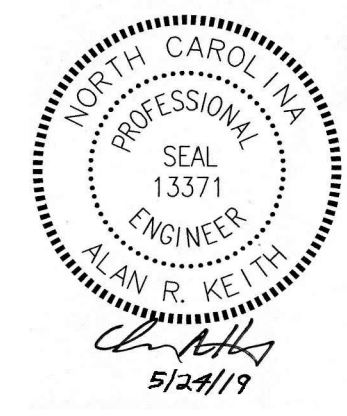
Curve Data				
Curve #	Radius	Length	Chord Length	Delta
C1	240.00	100.81	100.07	24.07
C2	750.00	189.72	189.21	14.49

- NOTES**
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  - SEED AND STABILIZE ALL DISTURBED AREAS.
  - EROSION CONTROL MEASURES SHOWN ARE CONSIDERED MINIMUM. PROVIDE ADDITIONAL MEASURES AS REQUIRED TO MAINTAIN A STABLE SITE DURING CONSTRUCTION.
  - SURVEY INFORMATION FROM VAN FINCH LAND SURVEYS, PITTSBORO, NC
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**PLAN - FORSYTH STA. 10+00 TO END**  
 (50' PUBLIC ROW)  
 SCALE: 1" = 40'



This Revised Sheet Received electronically by NCDOT District 1/ Div 8 05/24/2019



JOB NO. 17  
 DESIGN: ARK  
 DRAWN: MAT  
 CHECKED: ARK  
 SCALE: 1" = 40'  
 FILE: Workpapers of Fearrington Phase 2.dwg

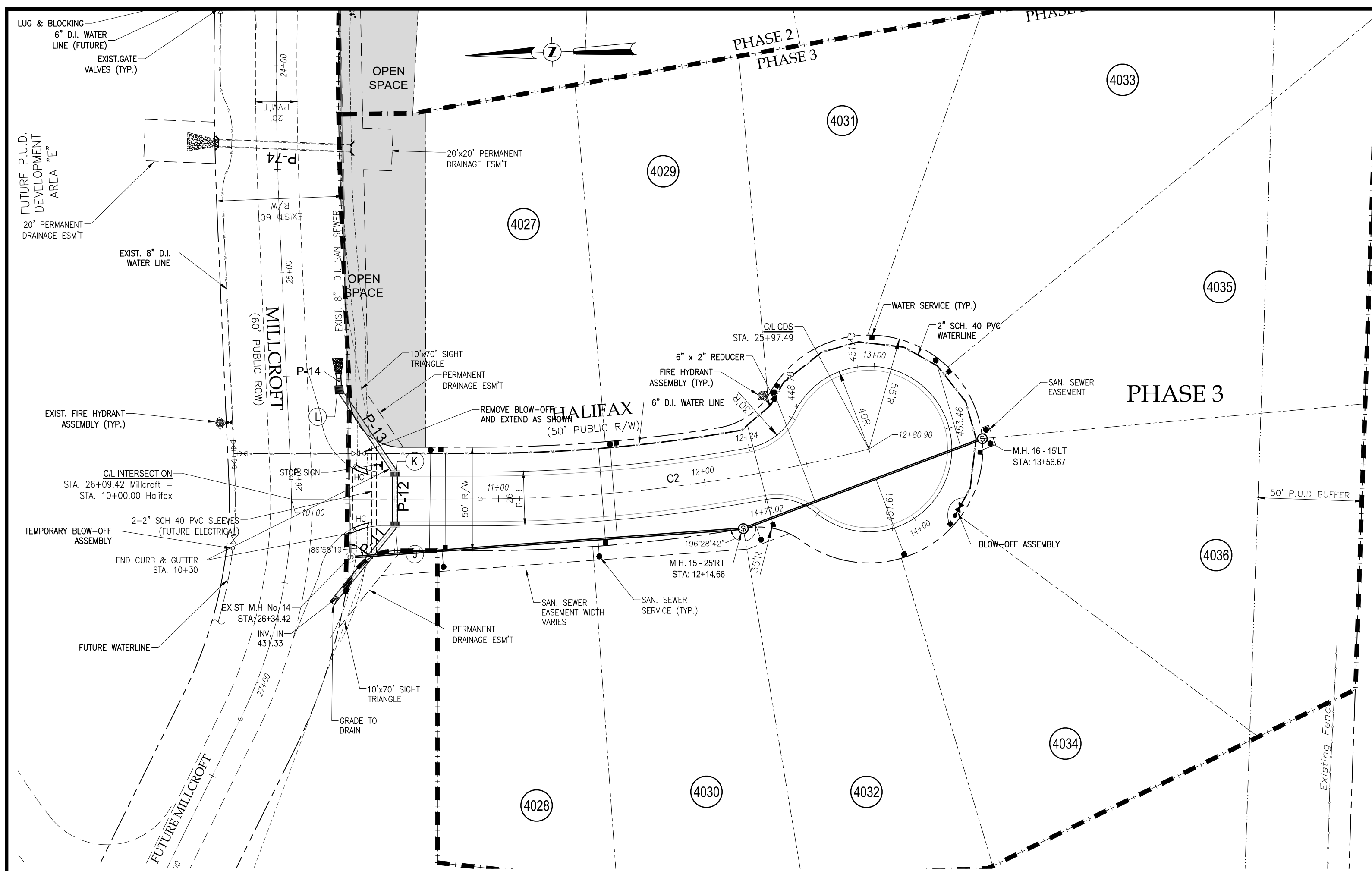
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 CARY, N.C. 27518 • (919) 467-9972

**D&P**

FEARRINGTON SECTION X  
 AREA D PHASE 2 & 3  
 CHATHAM COUNTY, NORTH CAROLINA

PLAN AND PROFILE - FORSYTH

SHEET 4 OF 10



**PLAN - HALIFAX STA. 10+00 TO END  
(45' PUBLIC ROW)**

SCALE: 1" = 40'

Curve Data				
Curve #	Radius	Length	Chord Length	Delta
C1	240.00	100.81	100.07	24.07
C2	750.00	189.72	189.21	14.49

**NOTES**

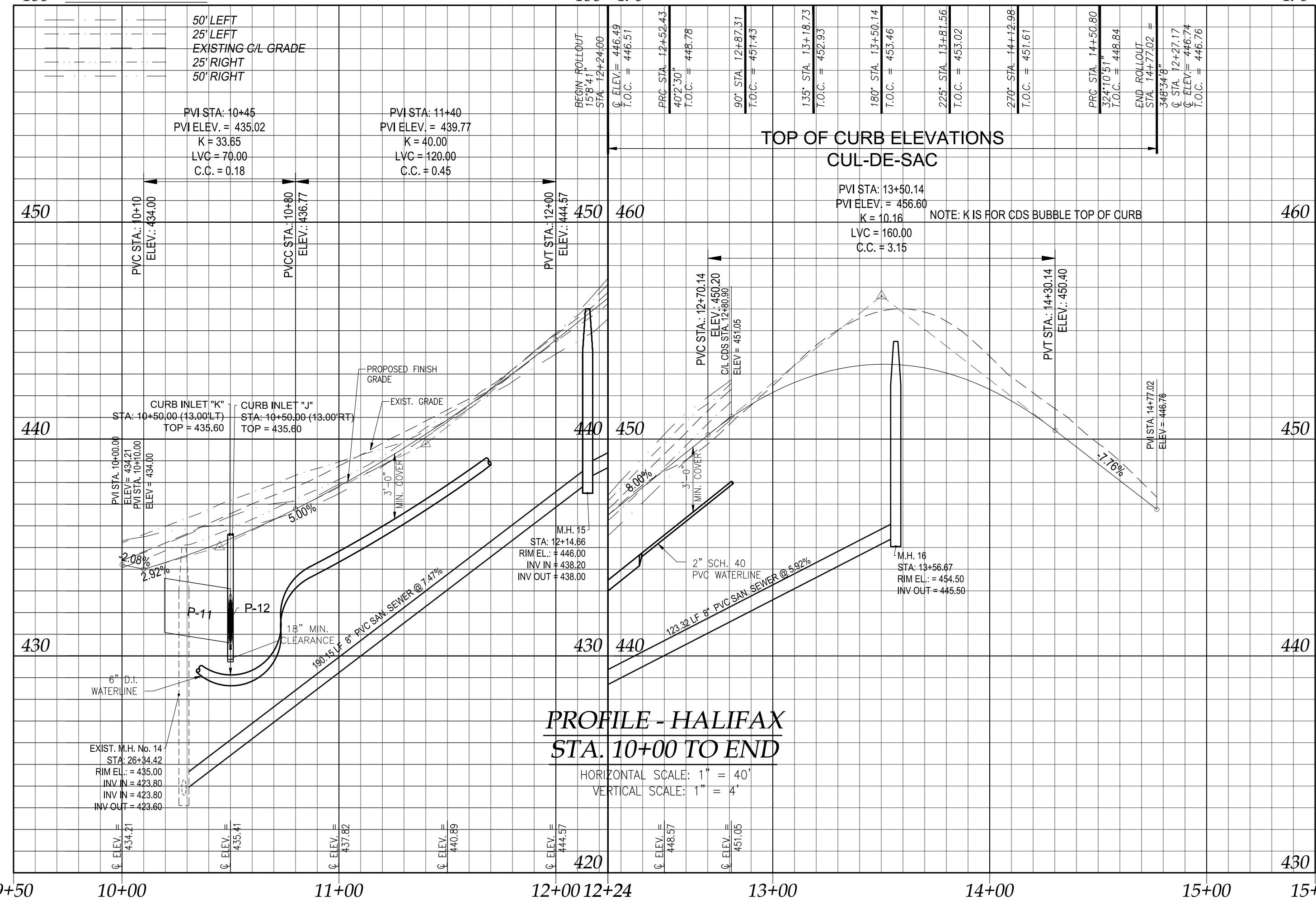
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**NOTES:**

ALL BLOW-OFF ASSEMBLIES SHALL BE DIRECTED AWAY FROM ANY TRAVEL LANE.

ALL BLOW-OFF VALVES, VAULTS, MANHOLES, AND OTHER APPURTENANCES WITHIN THE PROPOSED NCDOT RIGHT-OF-WAY SHALL BE LOCATED BEHIND THE DITCH AND AT THE RIGHT-OF-WAY LINE. MANHOLES AND/OR VAULTS SHALL NOT BE PLACED IN THE DITCH LINE SIDE SLOPES OF DITCHES OR IN THE PAVEMENT.

**460 PROFILE LEGEND**



**PROFILE - HALIFAX  
STA. 10+00 TO END**

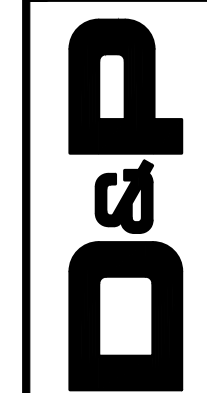
HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 4'

This Revised Sheet Received electronically by NCDOT District 1/ Div 8 05/24/2019



JOB NO. 17  
DESIGN: ARK  
DRAWN: MAT  
CHECKED: ARK  
SCALE: 1" = 40'  
FILE: Wofington Phase 2.dwg

**DIEHL & PHILLIPS, P.A.**  
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1500 Piney Plains Rd., Suite 200  
CARY, N.C. 27518 • (919) 467-9972



FEARRINGTON SECTION X  
AREA D PHASE 2 & 3  
CHATHAM COUNTY, NORTH CAROLINA

PLAN AND PROFILE - HALIFAX

SHEET

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OF

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