

FEARRINGTON P.U.D.
 SECTION X - AREA "D" (Montgomery)
 PHASE 1 PRELIMINARY PLAT
 VILLAGE OF FEARRINGTON FEARRINGTON P.U.D.

Prof: DCL
 Coord: DCL
 Date: JULY 13, 2018
 Revisions:

SEARS DESIGN GROUP, P.A.
 LANDSCAPE ARCHITECTS
 625 W. Jones Street Raleigh, NC 27603
 (919) 832-7000 Fax: (919) 832-8140
 email: searsdesign@bellsouth.net
 Sheet No. C-1
 Of

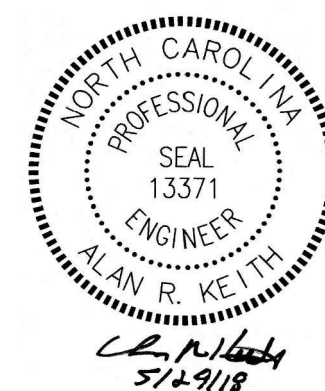
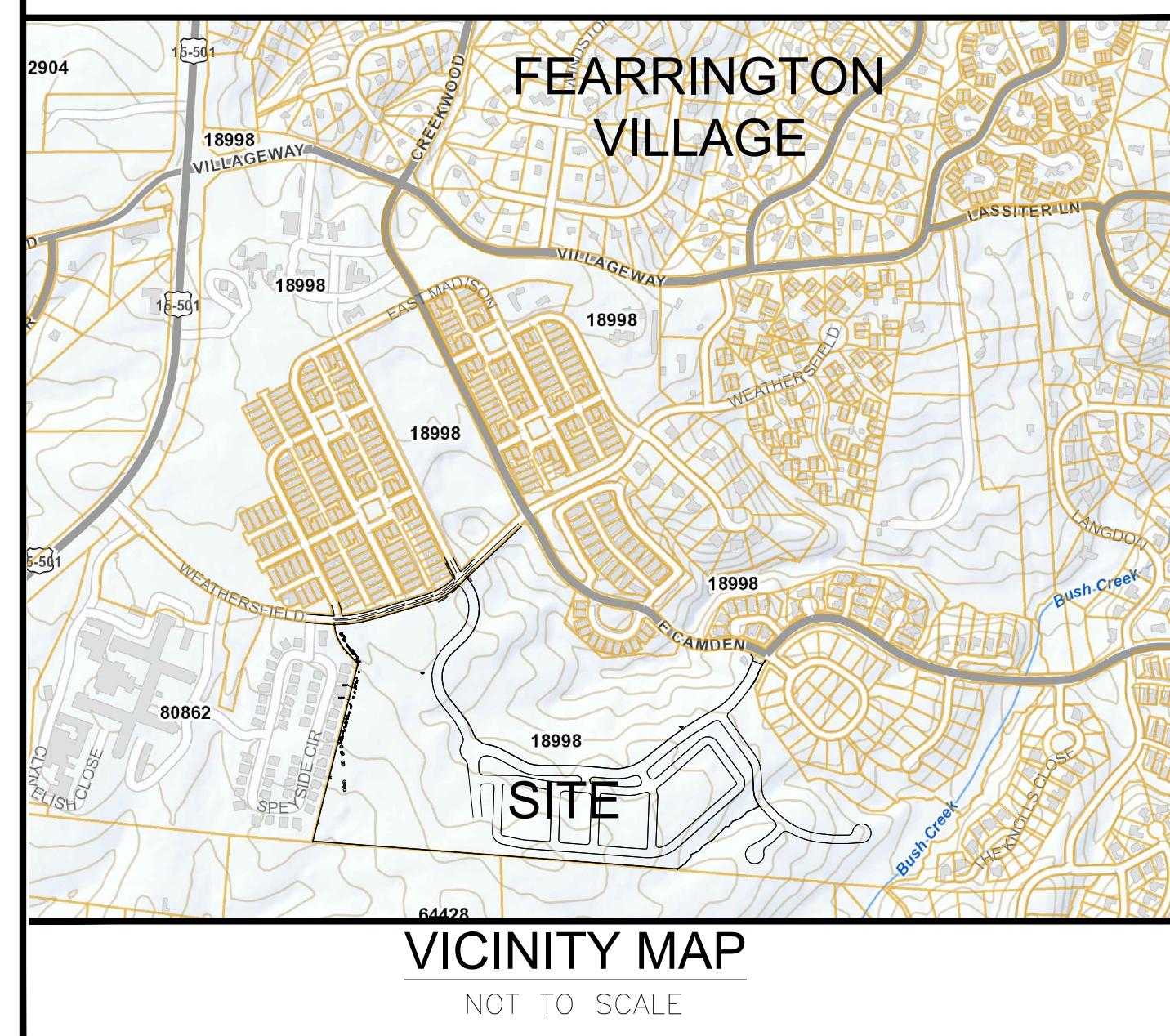
FEARRINGTON PLANNED UNIT DEVELOPMENT

SECTION X AREA D PHASE 1 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

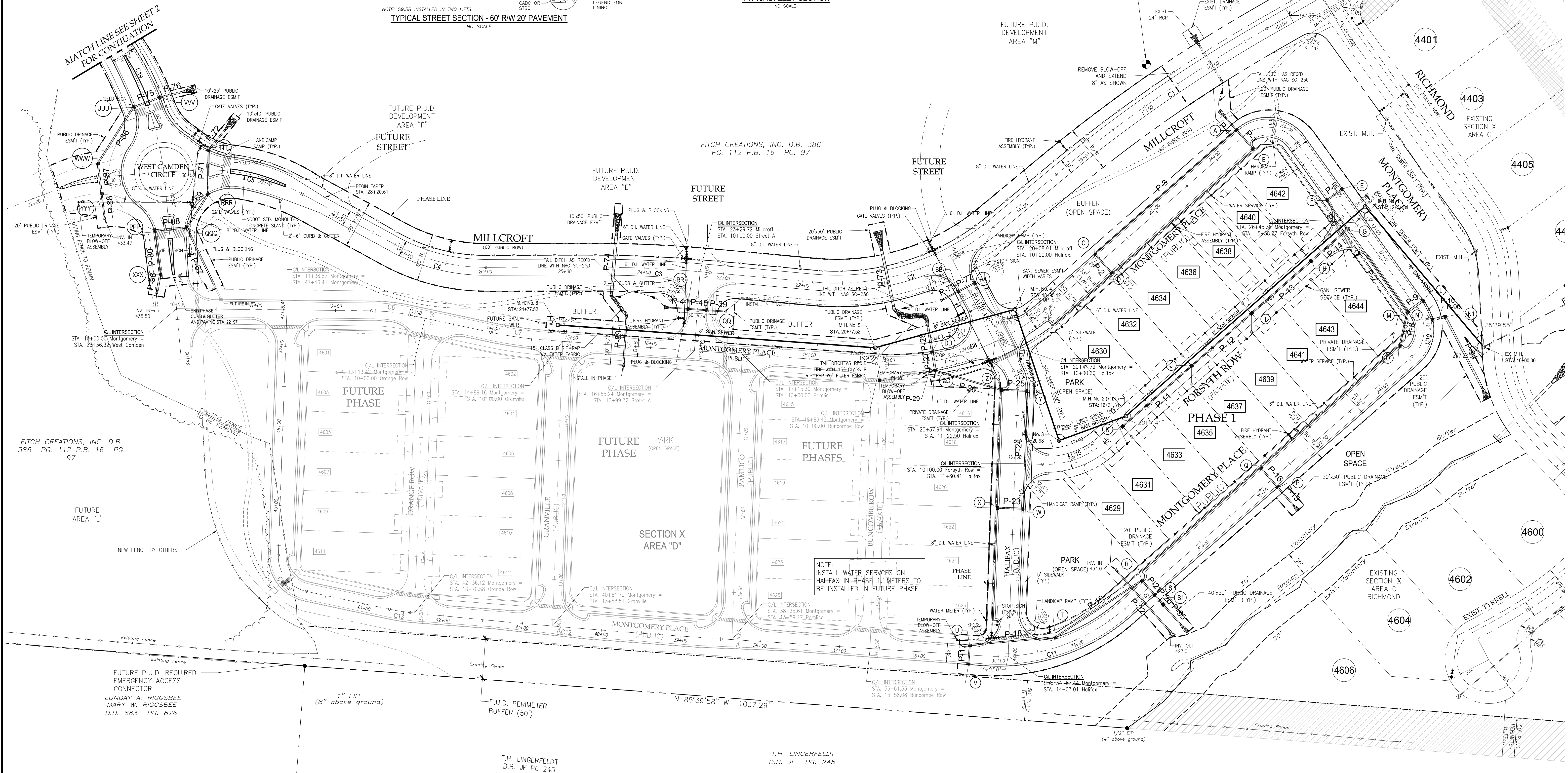
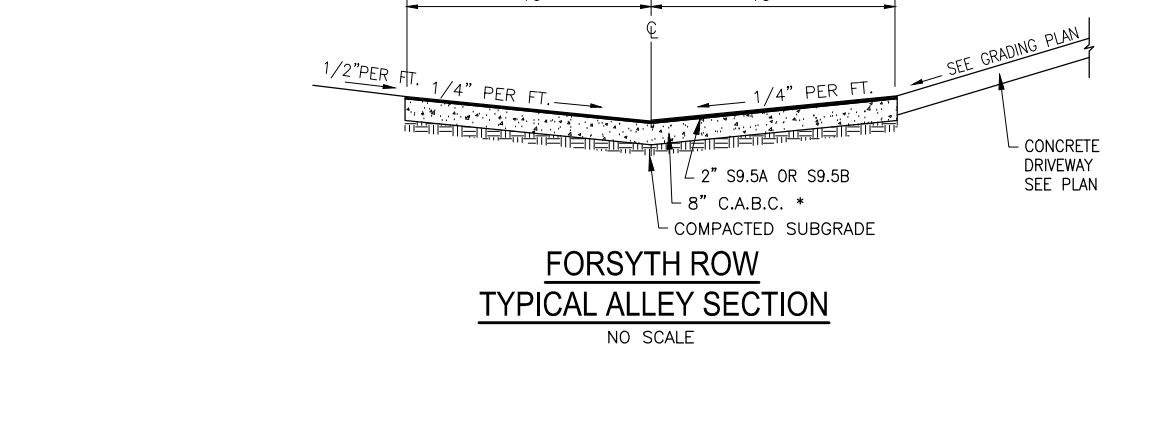
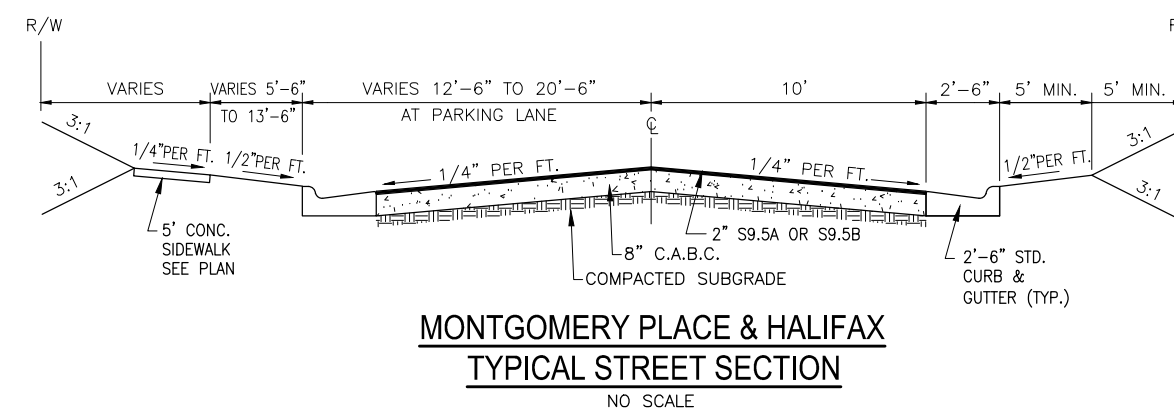
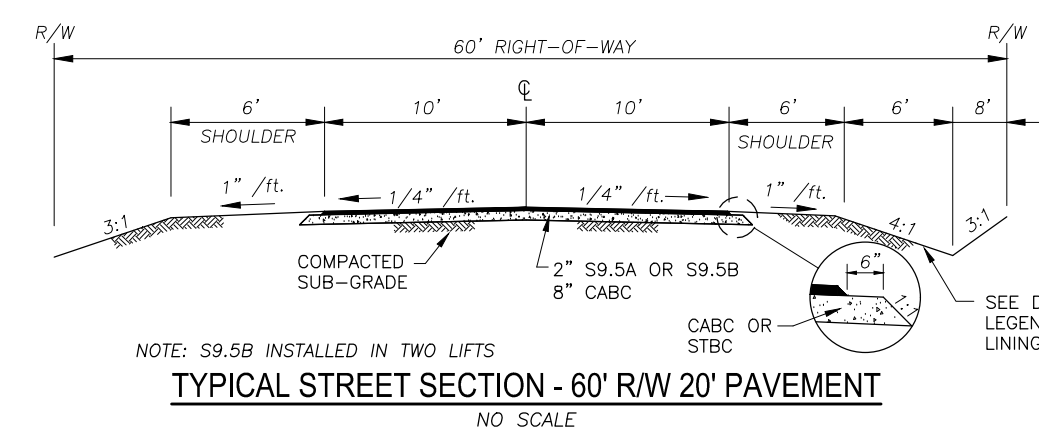
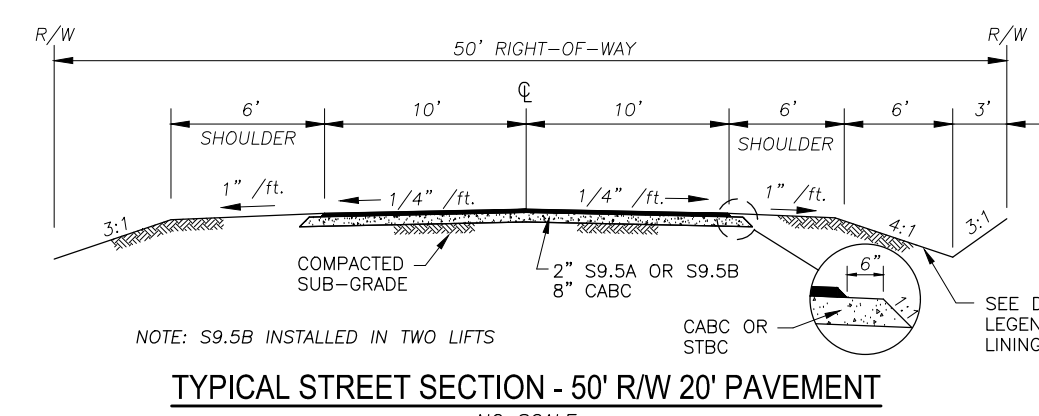
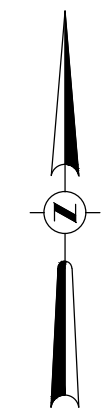


PLANS PREPARED BY:
DIEHL & PHILLIPS, P.A.

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

NOTES

1. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEED AND STABILIZE ALL DISTURBED AREAS.
3. EROSION CONTROL MEASURES SHOWN ARE CONSIDERED MINIMUM. PROVIDE ADDITIONAL MEASURES AS REQUIRED TO MAINTAIN A STABLE SITE DURING CONSTRUCTION.
4. SURVEY INFORMATION FROM VAN FINCH LAND SURVEYS, PITTSBORO, NC
5. SITE LAYOUT BY SEARS DESIGN GROUP.
6. ALL PUBLIC STREET CONSTRUCTION SHALL BE IN COMPLIANCE WITH NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
7. ALL WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION STANDARDS AND SPECIFICATIONS. ALL WATER SHALL BE OWNED AND OPERATED BY THE COUNTY OF CHATHAM. NOTIFY CHATHAM COUNTY PUBLIC UTILITIES PRIOR TO ALL WATER MAIN TAPS AND BLOW OFF REMOVAL OF EXISTING WATER MAINS.
8. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN COMPLIANCE WITH FITCH CREATIONS, INC. (FEARRINGTON UTILITIES) STANDARDS AND SPECIFICATIONS. ALL SANITARY SEWER SHALL BE OWNED AND OPERATED BY FITCH CREATIONS OR ASSIGNS.
9. NOTIFY FITCH CREATIONS PRIOR TO ALL SANITARY SEWER TAPS OR CONNECTIONS. NEW SEWER MAINS SHALL REMAIN PLUGGED UNTIL NEW MAINS ARE TESTED AND ACCEPTED BY FITCH CREATIONS.
10. STOP SIGNS SHALL BE INSTALLED AS SHOWN. SIGNS SHALL BE RETROREFLECTIVE PER NCDOT & MUTCD STANDARDS MOUNTED ON 350 CRASH COMPLIANT POST.
11. CURB INLETS SHALL BE NCDOT STANDARD 840.02. YARD INLETS SHALL BE NCDOT STANDARD 840.14.

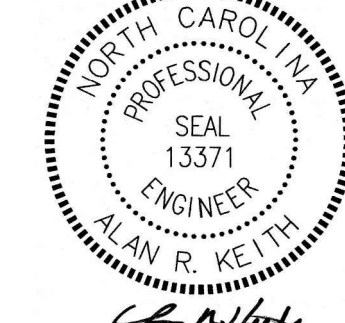
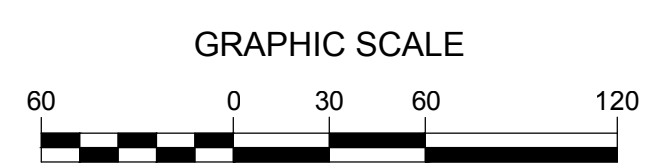


FITCH CREATIONS, INC. D.B. 386 PG. 112 P.B. 16 PG. 97

FUTURE P.U.D. REQUIRED EMERGENCY ACCESS CONNECTOR
LUNDAY 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



JOB NO. ?
 DESIGN ARK
 DRAWN MAT
 CHECKED ARK
 SCALE 1" = 60'
 FILE Montgomery.dwg
 DATE Fearrington.dwg

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

D&P

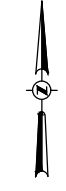
FEARRINGTON SECTION X
 AREA D PHASE 1
 & UTILITY PLAN

CHATHAM COUNTY, NORTH CAROLINA

MONTGOMERY PHASE 1 SUBDIVISION
 SHEET 1 OF 16

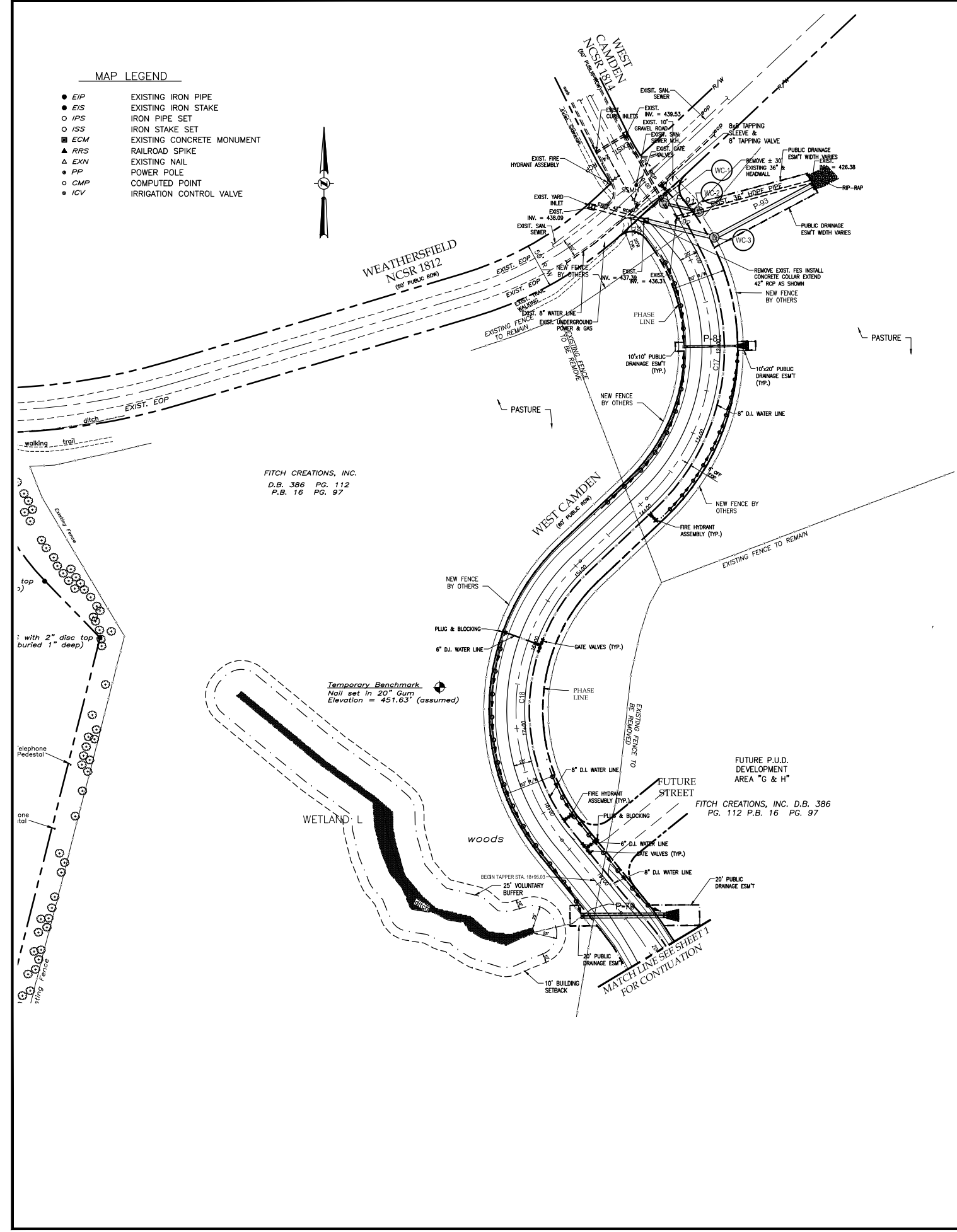
MAP LEGEND

- EIP EXISTING IRON PIPE
- EIS EXISTING IRON STAKE
- IPS IRON PIPE SET
- ISS IRON STAKE SET
- ECM EXISTING CONCRETE MONUMENT
- ▲ RRS RAILROAD SPIKE
- △ EXN EXISTING NAIL
- PP POWER POLE
- CMP COMPUTED POINT
- ICV IRRIGATION CONTROL VALVE



NOTES

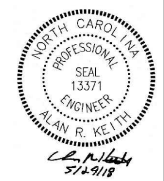
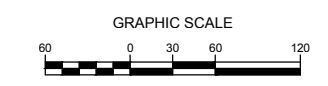
1. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEED AND STABILIZE ALL DISTURBED AREAS.
3. EROSION CONTROL MEASURES SHOWN ARE CONSIDERED MINIMUM. PROVIDE ADDITIONAL MEASURES AS REQUIRED TO MAINTAIN A STABLE SITE DURING CONSTRUCTION.
4. SHOWY INFORMATION FROM VAN FINE LAND SURVEYS, PITTSBORO, NC.
5. SITE LAYOUT BY SEARS DESIGN GROUP.
6. ALL PUBLIC STREET CONSTRUCTION SHALL BE IN COMPLIANCE WITH NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
7. ALL WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION STANDARDS AND SPECIFICATIONS. ALL WATER SHALL BE OWNED AND OPERATED BY THE COUNTY OF CHATHAM. NOTIFY CHATHAM COUNTY PUBLIC UTILITIES PRIOR TO ALL WATER MAIN TAPS AND BLOW OFF HEADVALVE BY EXISTING WATER MAINS.
8. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN COMPLIANCE WITH FITCH CREATIONS, INC. (FEARHINGTON UTILITIES) STANDARDS AND SPECIFICATIONS. ALL SANITARY SEWER SHALL BE OWNED AND OPERATED BY FITCH CREATIONS OR ASSIGNEE.
9. NOTIFY FITCH CREATIONS PRIOR TO ALL SANITARY SEWER TAPS OR CONNECTIONS. NEW SEWER MAINS SHALL REMAIN PLOUGED UNTIL NEW MAINS ARE TESTED AND ACCEPTED BY FITCH CREATIONS.
10. STOP SIGNS SHALL BE INSTALLED AS SHOWN. SIGNS SHALL BE RETROREFLECTIVE PER NC DOT & MUTCD STANDARDS MOUNTED ON 350 CRASH COMPLIANT POST.
11. CURB INLETS SHALL BE NC DOT STANDARD 040 R2. YARD INLETS SHALL BE NC DOT STANDARD 081 V1.



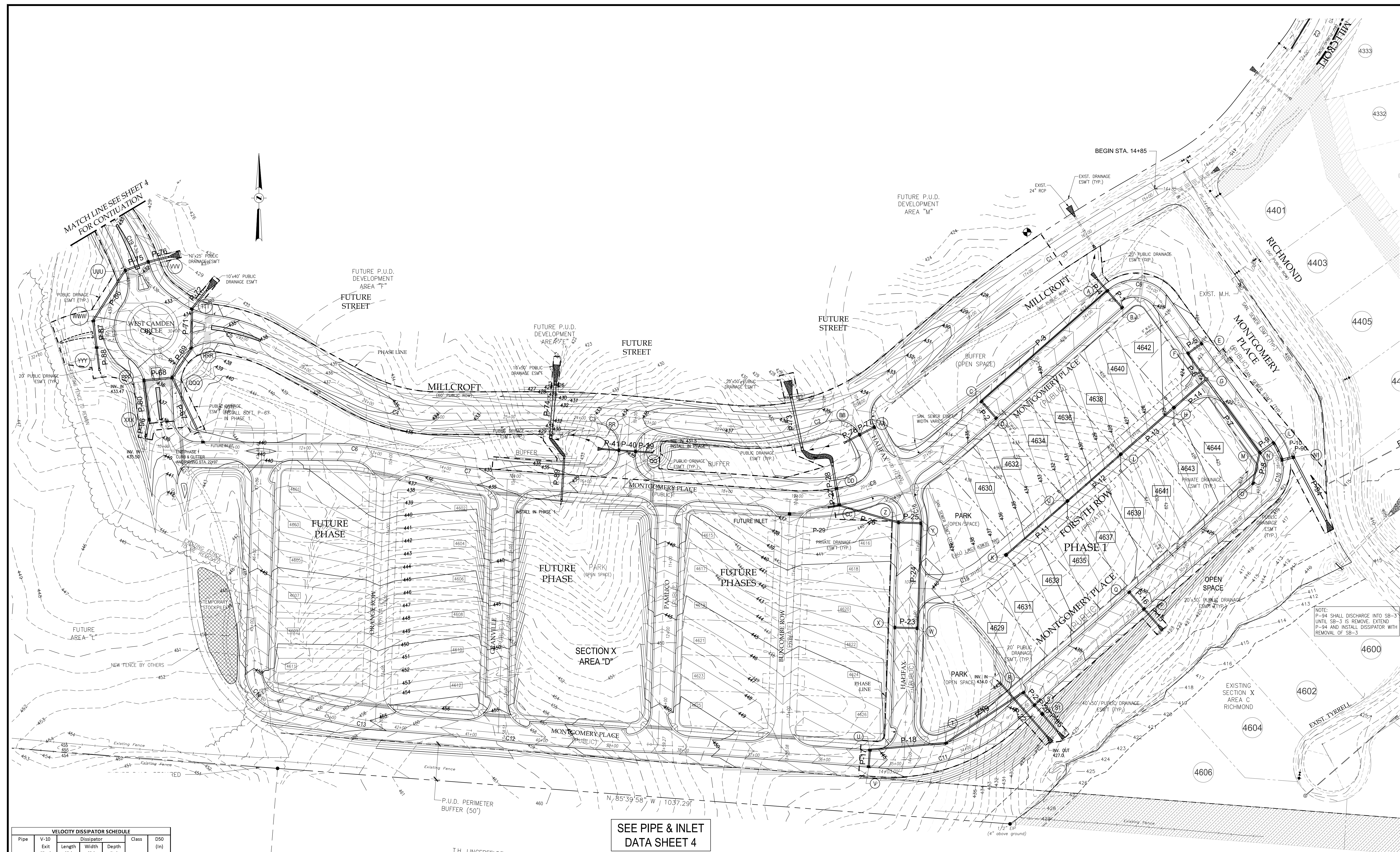
FITCH CREATIONS, INC.
D.B. 386 PG. 112
P.B. 16 PG. 97

FUTURE P.U.D. DEVELOPMENT AREA "G & H"
FITCH CREATIONS, INC. D.B. 386
PG. 112 P.B. 16 PG. 97

Temporary Benchmark
Nail set in 20" Gum
Elevation = 451.63' (assumed)



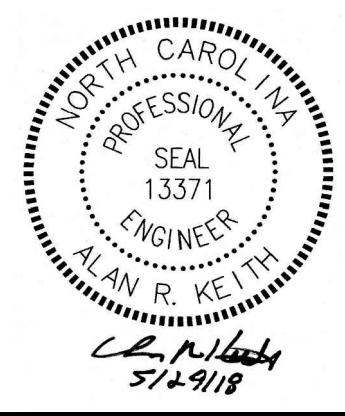
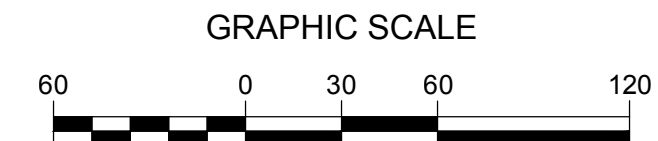
JOB NO. ?	DESIGN: ARK DRAWN: MAT CHECKED: ARK SCALE: 1" = 60' FILE: Montgomery of Fearrington.dwg
REVISIONS:	DIEHL & PHILLIPS, P.A. CONSULTING ENGINEERS, LLC, NO. C04465 1500 Piney Plains Rd., Suite 200 CARY, N.C. 27518 • (919) 467-9972
SHEET 2 OF 16	D&P
MONTGOMERY PHASE 1 SUBDIVISION & UTILITY PLAN	FEARRINGTON SECTION X AREA D PHASE 1 CHATHAM COUNTY, NORTH CAROLINA



VELOCITY DISSIPATOR SCHEDULE						
Pipe	V-10 Exit (ft/s)	Dissipator Length (ft)	Dissipator Width (ft)	Dissipator Depth (ft)	Class	OSD (ft)
P-4	5.4	8	4	22	B	6
P-15	9.1	8	4	22	B	6
P-22	7.9	10	4	22	B	6
P-28	7.2	12	6	22	B	6
P-41	3.4	5	4	22	B	6
P-72	6.5	15	8	22	B	6
P-73	10.1	20	8	22	B	6
P-74	13.0	24	9	30	B	6
P-76	7.6	12	6	22	B	6
P-78	2.6	5	4	22	B	6
P-79	6.0	15	12	22	B	6
P-81	7.2	12	6	22	B	6
P-89	11.6	12	6	22	B	6
P-92	17.6	35	11	36	2	12
P-94	11.3	16	6	30	1	12
P-95	11.6	12	6	22	B	6

SEE PIPE & INLET DATA SHEET 4

EROSION CONTROL PLAN
 SCALE: 1" = 60'



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

SELF INSPECTION NOTICE:

NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM:

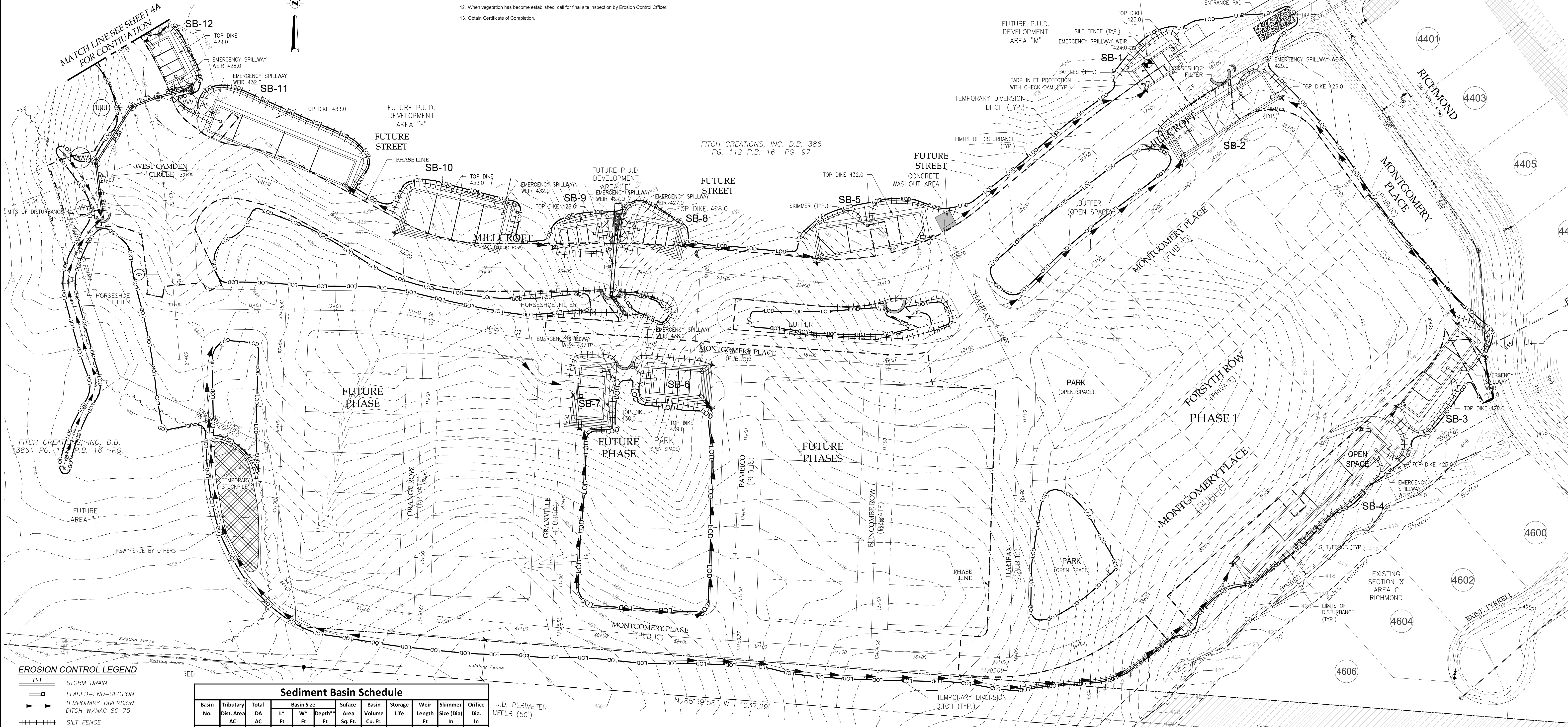
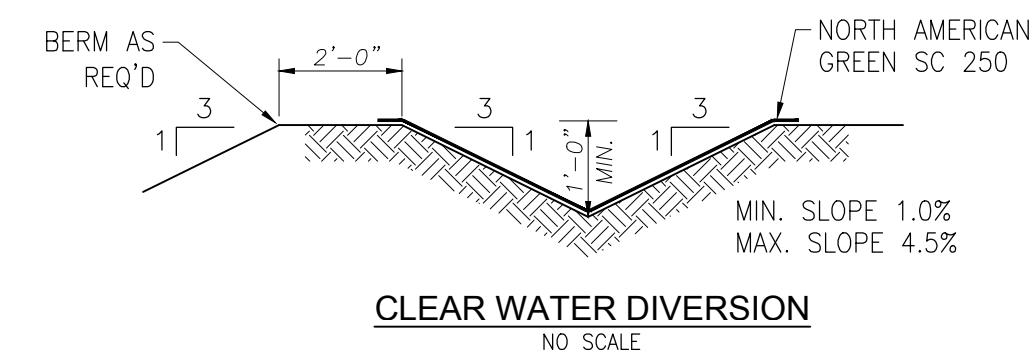
THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH STAGE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH STAGE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCGS 48.0131. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM [HTTP://WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML](http://www.dlr.enr.state.nc.us/pages/sedimentation_new.html). IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THIS OFFICE AT (919) 791-4200.

Site Area Description	Stabilization	Timeframe Expectations
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeter and HQW Zones.

NOTE: ALL FINISHED SLOPES ARE 3:1 OR FLATTER

CONSTRUCTION SEQUENCE

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. Construct sediment basins and clear water diversion. Stabilize immediately. Install pipes P-74, P-75, P-76, P-79, P-80, P-81, P-84, P-86, P-87, P-88 with disaspartors.
4. Construct temporary diversion ditches. Stabilize immediately.
5. Call (919) 545-9343 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 or NCGO10000 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.
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, slope 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. Stabilize these areas immediately.
12. When vegetation has become established, call for final site inspection by Erosion Control Officer.
13. Obtain Certificate of Completion.



EROSION CONTROL LEGEND

- P-1 STORM DRAIN
- FLARED-END-SECTION
- TEMPORARY DIVERSION DITCH W/NAG SC 75
- SILT FENCE
- SEDIMENT BASIN
- GRAVEL CONSTRUCTION ENTRANCE PAD
- SILT FENCE OUTLET
- CHECK DAM
- WATTLE
- HORSESHOE FILTER
- LIMITS OF DISTURBANCE
- EXISTING GRADE
- PROPOSED GRADE
- STOCKPILE/BORROW AREA
- CW CLEAR WATER DIVERSION
- INLET PROTECTION
- GTF-200 TARP INLET PROTECTION WITH CHECK DAM

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	0.73	0.73	53	25	3	1,325	2,650	1 year	10	3	0.75
SB-2	2.45	2.65	135	33	3	4,455	8,910	1 year	11	4	1.25
SB-3	1.60	1.60	116	25	3	2,900	5,800	1 year	10	3	1.25
SB-4	3.45	3.45	231	25	3	5,775	11,550	1 year	14	4	1.50
SB-5	2.48	2.57	130	33	4	4,290	12,870	1 year	11	3	1.50
SB-6	0.68	1.10	62	30	3	1,860	3,720	1 year	10	3	0.75
SB-7	0.90	1.10	62	30	3	1,860	3,720	1 year	10	3	0.75
SB-8	0.73	0.77	53	25	3	1,325	2,650	1 year	10	3	0.75
SB-9	0.48	0.54	45	21	3	945	1,890	1 year	10	2	0.75
SB-10	3.20	3.58	120	50	3	6,000	12,000	1 year	15	4	1.50
SB-11	3.10	3.27	184	32	3	5,888	11,776	1 year	15	4	1.50
SB-12	0.67	0.67	50	25	3	1,250	2,500	1 year	10	3	0.75
SB-13	0.23	0.23	30	14	3	840	840	1 year	10	3	0.50
SB-14	0.74	0.74	50	25	4	1,250	3,750	1 year	10	3	0.75
SB-15	0.30	0.30	24	16	3	501	1,080	1 year	10	3	0.38
SB-16	0.16	0.16	24	12	3	288	576	1 year	10	2	0.38
SB-17	2.70	2.89	100	49	4	4,900	14,700	1 year	12	4	1.50
SB-18	0.16	0.16	24	12	3	288	576	1 year	10	2	0.38

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

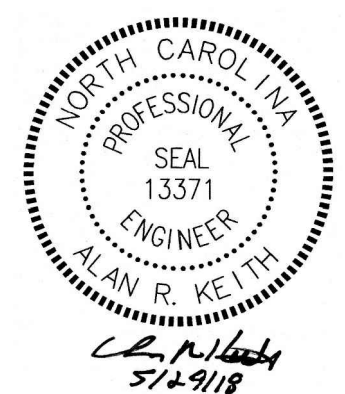
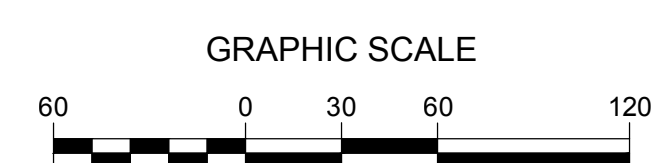
VELOCITY DISSIPATOR SCHEDULE						
Pipe	V-10 Exit (Fps)	Length (ft)	Width (ft)	Depth (in)	Class	D50 (in)
P-4	5.4	8	4	22	B	6
P-15	9.1	8	4	22	B	6
P-22	7.9	10	4	22	B	6
P-28	7.2	12	6	22	B	6
P-41	3.4	5	4	22	B	6
P-72	6.5	15	8	22	B	6
P-73	10.1	20	8	22	B	6
P-74	13.0	24	9	30	B	6
P-76	7.6	12	6	22	B	6
P-78	2.6	5	4	22	B	6
P-79	6.0	15	12	22	B	6
P-81	7.2	12	6	22	B	6
P-80	11.6	12	6	22	B	6
P-92	17.6	35	11	36	2	12
P-94	11.3	16	6	30	1	12
P-95	11.6	12	6	22	B	6

SEE PIPE & INLET DATA SHEET 4
 T.H. LINGERFELDT
 D.B. JE PG. 245

NOTE:
 DIVERSION DITCH TO SB-4 TO BE LINED WITH NAD SC 250

EROSION CONTROL PLAN
 SCALE: 1" = 60'

TOTAL DISTURBED AREA = 26.00 AC.



JOB NO. 2
 DESIGN ARK
 DRAWN MAT
 CHECKED ARK
 SCALE 1" = 60'
 FILE Montgomery.dwg
 REVISIONS:
DIEHL & PHILLIPS, P.A.
 CONSULTING ENGINEERS - LIC. NO. C0465
 1500 Piney Plains Rd., Suite 200
 CARY, N.C. 27518 • (919) 467-9972
D&P
 FERRINGTON SECTION X
 AREA D PHASE 1
 CHATHAM COUNTY, NORTH CAROLINA
 EROSION CONTROL PLAN STAGE 1
 CLEARING & GRUBBING
 SHEET 3A OF 16