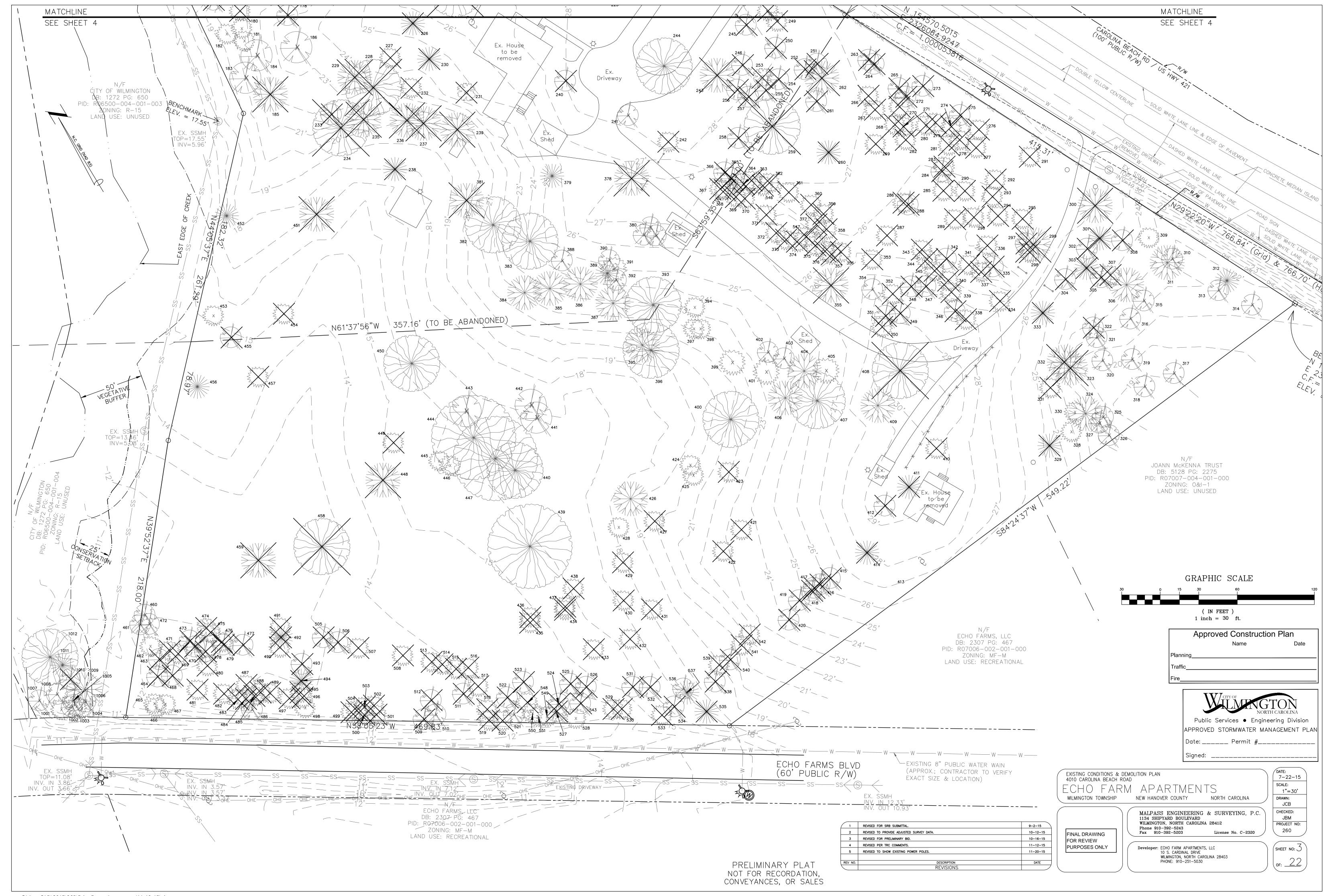
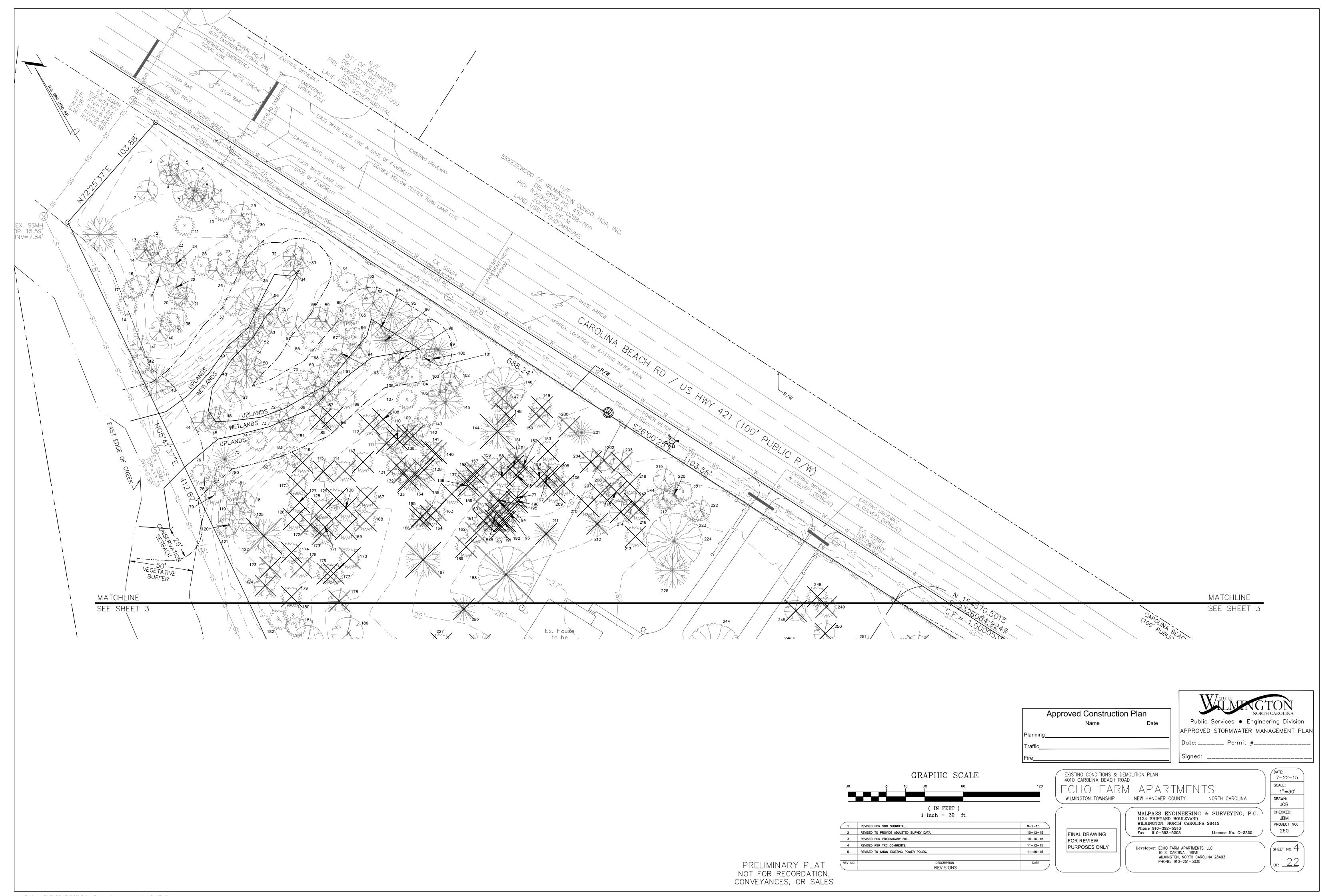
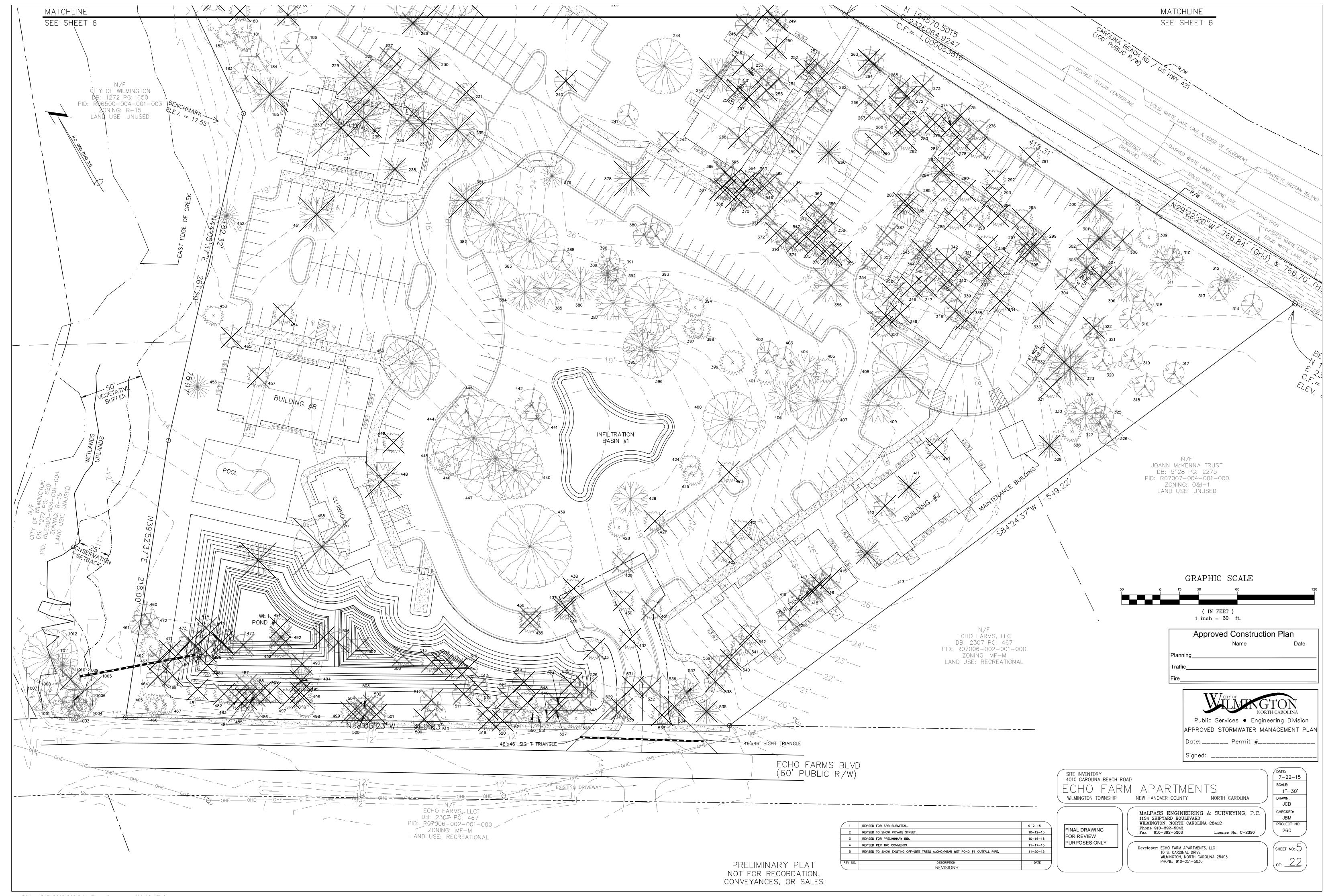
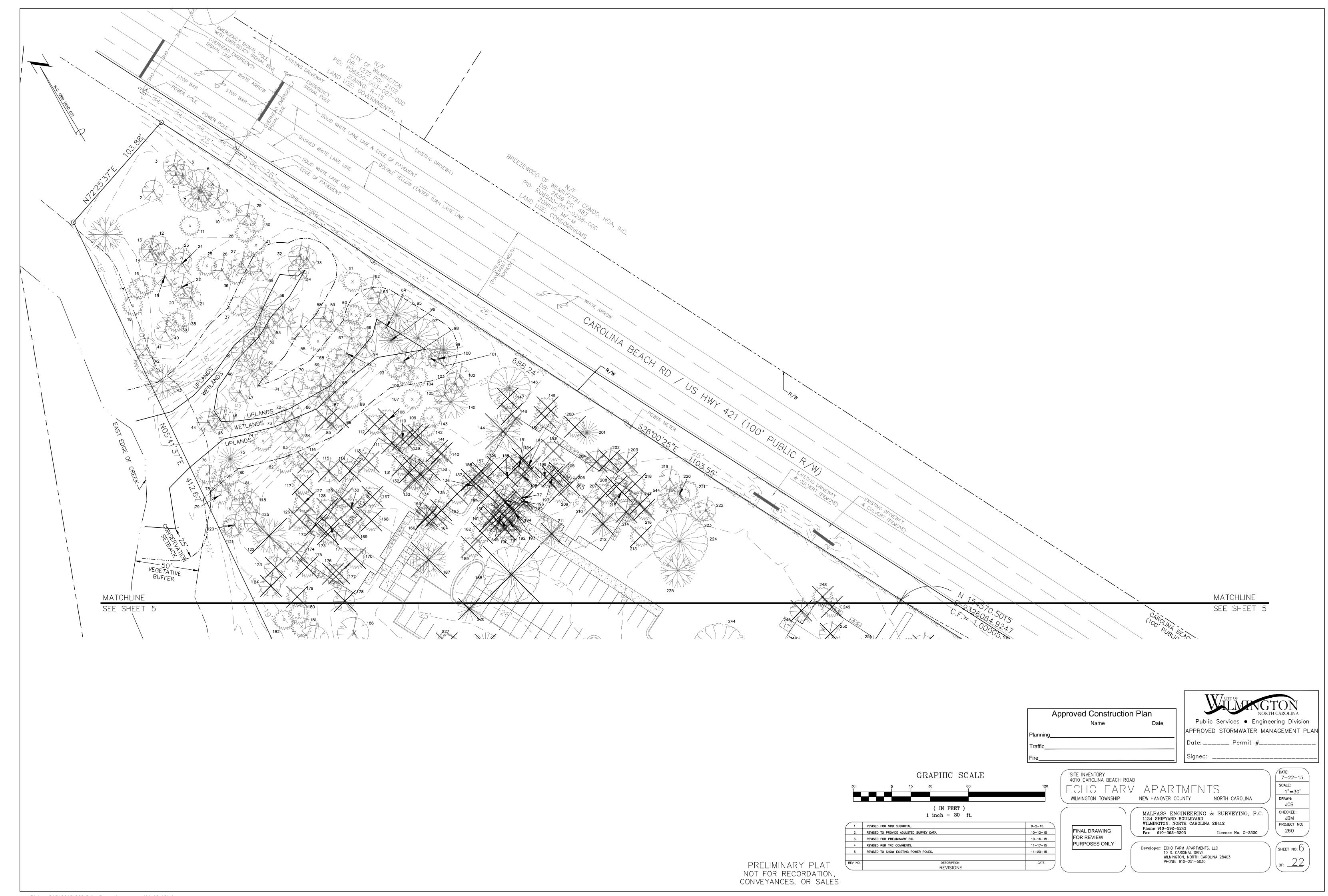


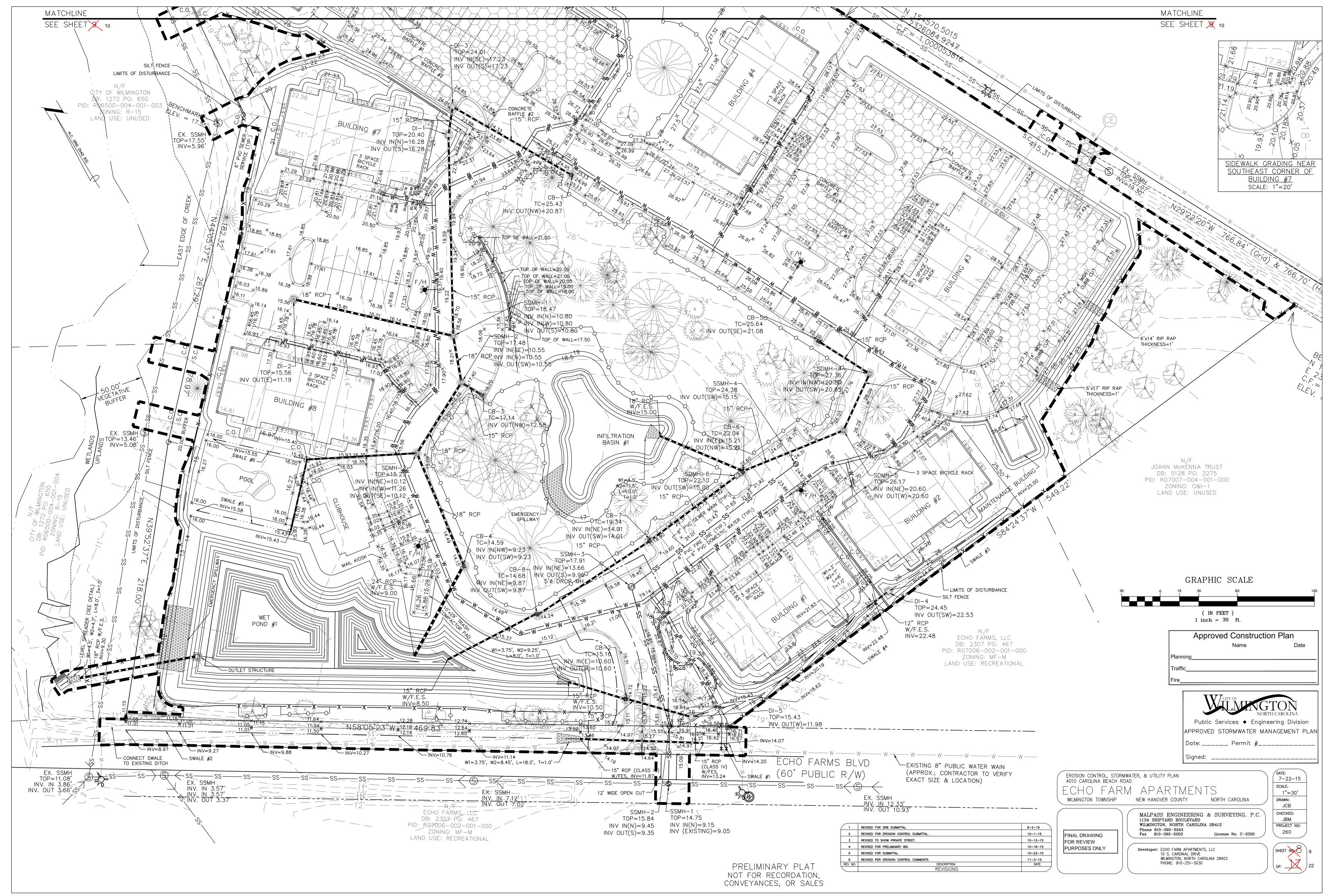
	EXISTING PROTECTED TREES CHART				EXIS	TING PROTECTED TREES CHART				EXISTING PROTECTED TREES CHART		EXISTING PROTECTED TREES CHART
NUMBER TREE	REMOVAL REASON FOR REMOVAL	MITIGATION REQUIRED	MITIGATION FACTOR	NUMBE		REASON FOR REMOVAL	MITIGATION REQUIRED	MITIGATION FACTOR	NUMBER TREE RE		GATION REQUIRED MITIGATION FACTOR	NUMBER TREE REMOVAL REASON FOR REMOVAL MITIGATION REQUIRED MITIGATION FACTOR
1 27" PINE 2 10" TWIN OAK	NO NO NO NO NO NO NO NO NO -		- - -	169 170	20" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	-	336 15" PINE 337 17" PINE 338 21" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT         —           EXEMPT         —           FXFMPT         —	489 16" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 490 23" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 491 11" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
5 18 GUM 4 15" GUM 5 17" GUM	NO – NO – NO –		- -	171 172 173	10" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	339 17" PINE 340 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	492 8" MAGNOLIA YES ESSENTIAL SITE IMPROVEMENTS YES 2/3 (100%) 493 18" MAPLE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
6 24" POPLAR 7 16" GUM	NO – NO –	<del>-</del>		174 175 176	107 500 50	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		341 16" PINE 342 9" GUM	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	494 8" MAGNOLIA YES ESSENTIAL SITE IMPROVEMENTS YES 2/3 (100%) 495 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
9 14" GUM 10 16" PINE	NO – NO – NO –		_ _ _	177 178	12" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	345 12" PINF	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –  EXEMPT –	497         14" PINE         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           498         19" PINE         NO         —         —         —
11 13" PINE 12 21" PINE	NO – NO –	<del>-</del>	-	179 180	20" PINE YES ES	SSENTIAL SITE IMPROVEMENTS -	EXEMPT —		346 21" OAK 347 16" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –	499 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 500 16" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 501 16" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
13 12" OAK 14 12" OAK 15 10" OAK	NO - NO - NO - NO - NO - NO - NO		_ _ _	181 182 183	16" PINE NO 14" PINE NO 8" OAK NO	- - -		_ _ _	348 10" OAK 349 19" WILLOW 350 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –  EXEMPT –	501 16" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 502 20" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 503 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
16 14" PINE 17 14" PINE	NO – NO –	<del>-</del>		184 185	22" OAK NO 24" PINE YES ES	SSENTIAL SITE IMPROVEMENTS	_ YES	- 1/3 (50%)	351 12" OAK 352 19" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	504 14" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT – 505 17" OAK YES ESSENTIAL SITE IMPROVEMENTS EXEMPT –
18 20" PINE 19 13" OAK 20 12" PINE	NO NO NO NO NO NO NO NO NO -	<u>-</u> - -	_ _ _	186 187 188	25" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES	1/3 (50%) 2/3 (100%)	353 20" PINE 354 10" OAK 355 24" PINE	YES ESSENTIAL SITE IMPROVEMENTS  NO - YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – – – – YES 1/3 (50%)	506 26" OAK (BELOW SPLIT) YES ESSENTIAL SITE IMPROVEMENTS YES 2/3 (100%) 507 16" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 508 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
21 11" GUM 22 9" OAK	NO – NO –	<del>-</del> -		189 190	30 37.11	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	- - -	356 16" PINE 357 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	509 8" GUM YES ESSENTIAL STIE IMPROVEMENTS EXEMPT — 510 11" MAPLE NO — — — —
23 17" PINE 24 10" OAK	NO NO NO NO NO NO NO NO NO -		<u>-</u> -	191 192 193	17" PINE YES ES  12" PINE YES ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		358 16" PINE 359 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT         —           EXEMPT         —           EXEMPT         —	511 16" GUM YES ESSENTIAL SITE IMPROVEMENTS EXEMPT – 512 10" MAPLE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT – 513 15" PINF YES ESSENTIAL SITE IMPROVEMENTS EXEMPT –
26 11" OAK 27 14" OAK	NO – NO – NO –	<del>-</del> -	_ _ _	194 195	12" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	- - -	361 16" PINE 362 14" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	514 15" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 515 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
28 18" PINE 29 15" GUM	NO – NO –	<del>-</del>		196 197	TO GOIN TES E	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		363 16" GUM 364 16" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	516 15" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 517 14" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
31 22" PINE 32 19" GUM	NO – NO – NO –	- - -	_ _ _	198 199 200	20" PINE   YES   ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	365 15" OAK 366 18" OAK 367 15" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –  EXEMPT –	518     13" PINE     YES     ESSENTIAL SITE IMPROVEMENTS     EXEMPT     —       519     16" PINE     YES     ESSENTIAL SITE IMIPROVEMENTS     EXEMPT     —       520     12" PINE     YES     ESSENTIAL SITE IMIPROVEMENTS     EXEMPT     —
33 17" GUM 34 12" GUM	NO – NO –	<del>-</del>	-	201 202	26" MAGNOLIA NO 14" GUM YES ES	- SSENTIAL SITE IMPROVEMENTS	– EXEMPT		368 16" PINE 369 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	521 10" MAPLE NO
35 14" OAK 36 14" PINE 37 15" PINE	NO - NO - NO -	<u>-</u> - -	_ _ _	203 204 205	12" GUM YES ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	<u>-</u> -	370 15" PINE 371 14" PINE 372 16" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT — — — — — — — — — — — — — — — — — — —	522         13 GUM         TES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           523         10" & 10" GUM (2 TREES)         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           524         10" GUM         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           525         11" OAK         NO         —         —         —
38 13" PINE 39 16" PINE	NO – NO –	<u> </u>		203 206 207	17" PINE YES ES 16" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		373 21" PINE 374 15" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	525         11 OAK         NO         —         —         —           526         15" OAK         NO         —         —         —           527         16" YELLOW POPLAR         YES         ESSENTIAL SITE IMIPROVEMENTS         EXEMPT         —
40 11" OAK 41 12" OAK	NO NO NO NO NO NO NO NO NO -	<del>-</del> - -	_ _ _	208	13" PINE YES ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	- - -	375 16" PINE 376 12" PINE 377 12" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT         -           EXEMPT         -           FXEMPT         -	528         21" PINE         NO         —         —         —           529         15" PINE         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           530         14" PINE         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —
43 24" PINE 44 14" POPLAR	NO – NO – NO –		_ _ _	210 211 212	10" DOGWOOD YES ES 25" MAGNOLIA YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES EXEMPT	2/3 (100%)	377 12" PINE 378 27" PINE 379 8" TALLOW	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS NO -	YES 1/3 (50%)	531 20" OAK YES ESSENTIAL SITE IMPROVEMENTS EXEMPT – 532 12" OAK YES ESSENTIAL SITE IMPROVEMENTS EXEMPT –
45 12" GUM 46 19" GUM	NO	- -		213	19" PINE YES LE	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		CLUSTER (4 TREES)	NO -		533 15" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 534 8" HARDWOOD YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
47 20" OAK 48 24" PINE 49 12" GUM	NO	- - -	_ _ _	215 216 217	15" PINE YES ES	SSENTIAL SITE IMPROVEMENTS –	EXEMPT EXEMPT —	_ _ _	381 28" PINE 382 24" LIVE OAK 383 50" OAK	YES ESSENTIAL SITE IMPROVEMENTS NO - NO -	YES 1/3 (50%)	535         10" BLACK CHERRY         YES         ESSENTIAL SITE IMPROVEMENTS         YES         2/3 (50%)           536         16" OAK         NO         -         -         -           537         10" BLACK CHERRY         NO         -         -         -
50 10" OAK 51 10" GUM	NO - NO -	- - -	_ _ _	218 219	20" PINE YES ES 11" OAK NO	SSENTIAL SITE IMPROVEMENTS  -	EXEMPT —		384 27" PINE 385 27" PINE	NO – NO –	- - -	538 12" OAK YES ESSENTIAL SITE IMPROVEMENTS EXEMPT — 5.39 15" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT —
52 10" GUM 53 14" GUM 54 18" OAK	NO - NO - NO -	- - -	- - -	220 221 222	12" OAK NO 14" PINE NO 14" OAK NO	- - -	- - -	- - -	386 25" PINE 387 24" PINE 388 17" OAK	NO - NO - NO -		540     8" OAK     YES     ESSENTIAL SITE IMPROVEMENTS     EXEMPT     —       541     11" PINE     YES     ESSENTIAL SITE IMPROVEMENTS     EXEMPT     —
54 18 OAK 55 18" PINE 56 29" POPLAR	NO - NO - NO -			223 224	14 OAK NO 17" PINE NO 25"-9" TWIN OAK NO	- - -			388 17" OAK 389 11" CHERRY 390 19" MAPLE	NO – NO – NO –		543 12" MAPLE NO
57 8" OAK 58 8" GUM	NO - NO -	<del>-</del>	-	225	32" PINE NO 19" MAGNOLIA YES ES	SSENTIAL SITE IMPROVEMENTS	– YES	2/3 (100%)	391 19" PINE 392 17" OAK	NO – NO –	- - -	545 18" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT – 546 12" PINE YES ESSENTIAL SITE IMPROVEMENTS EXEMPT –
59 8" OAK 60 19" PINE 61 19" PINE	NO -	= =	_ _ _	227 228 229	29" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT YES YES	2/3 (100%) 1/3 (50%)	393 24" OAK 394 22" OAK 395 24" PINE	NO – NO – NO –	 	548         13" PINE         YES         ESSENTIAL SITE IMPROVEMENTS         EXEMPT         —           549         13" PINE         NO         —         —         —
62 16" GUM 63 18" GUM	NO – NO –	<del>-</del>	_ _	230 231	16" CHERRY YES ES 5" CHINABERRY YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES EXEMPT	2/3 (75%)		NO – NO –	 	550         12" PINE         NO         -         -         -         -           551         15" PINE         NO         -         -         -         -
64 20" OAK 65 20" PINE 66 14" PINE	NO - NO - NO -		_ _ _	232 233 234	12" OAK YES ES	SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	_ _ _	398 16" PINE 399 21" PINE 400 32" OAK	NO – NO – NO –	 	EXISTING PROTECTED TREES CHART - OFF-SITE ALONG/NEAR PROPOSED WET POND #1 OUTFALL PIPE
67 13" PINE 68 19" PINE	NO – NO –	<u> </u>		235 236	25" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	401 19" PINE 402 20" OAK	NO – NO –	 	NUMBER TREE REMOVAL REASON FOR REMOVAL MITIGATION REQUIRED MITIGATION FACTOR
69 14" OAK 70 20" PINE 71 9" OAK	NO NO NO NO NO NO NO NO NO -		_ _ _	237 238	25" PINE YES ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT  EXEMPT  VES	- - 1/3 (50%)	403 19" GUM 404 24" PINE 405 22" PINF	NO – NO – NO –	 	1001     20" PINE     NO     -     -     -       1002     8" MAPLE     NO     -     -     -       1003     13" PINE     NO
72 11" OAK 73 9" OAK	NO – NO – NO –	<del>-</del> -	_	239 240 241	25" PINE YES ES 19" BIRCH YES ES 20" OAK NO	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS -	EXEMPT -	<del>  -</del>	406 38" PINE	NO – NO –	<del>-</del> -	1003
74 16" PINE 75 8" DOGWOOD	NO	- -	-	242 243	20" PINE YES ES 30" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT YES	1/3 (50%)	407 36" OAK 408 36" OAK 409 48" PINE 410 12" CEDAR	YES ESSENTIAL SITE IMPROVEMENTS NO -	YES 2/3 (100%)	1006         9" GUM         NO         -
76 17 PINE 77 18" PINE 78 11" OAK	YES ESSENTIAL SITE IMPROVEMENTS NO -	EXEMPT —	_ _ _	1 246	8",9",& 10" OAK (3 TREES) YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT  EXEMPT	_ _ _	111   10" TALLOM	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT - EXEMPT -	1008         13" YELLOW POPLAR         NO         —
79 19" PINE 80 20" PINE	NO	<del>-</del>	_ _	1 74/	13" OAK YES ES  15" PINE YES ES  24" PINE (BELOW SPLIT) YES ES	SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		413 22 OAK 414 15" MAGNOLIA	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	1011         11" MAGNOLIA         NO         -         -         -           1012         33" OAK         NO         -         -         -
81 21" PINE 82 15" PINE 83 14" PINE	NO – NO – NO – NO –		_ _ _	249 250 251	I IS OAK I ILS IL	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES EXEMPT FXFMPT	1/3 (50%) - -	415 16" BIRCH 416 14" OAK 417 11" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –  FXFMPT –	
84 10"-9" TWIN OAK 85 9" OAK	NO –  YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT		252 253	1 47" 041/ 1 VEC 1 5	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EVENDT		419 11" OAK 419 21" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	
86 15" PINE 87 9" OAK	NO - NO - YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT	_ _ _	254 255	13" OAK YES ES 16" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	420   21" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	
89 17" PINE 90 15" GUM	NO – NO –	= EXEMP1 = = = = = = = = = = = = = = = = = = =		257 258	9" MAPLE YES ES 14" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT		423 14" PINE 424 16"-11"-12" SPLIT PINE	YES ESSENTIAL SITE IMPROVEMENTS NO -	EXEMPT -	
91 21" PINE 92 7" OAK	NO – NO –	<u>-</u>	<u>-</u>	259 260	26" LIVE OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES YES	2/3 (100%) 2/3 (100%)	425 14" PINE 426 30" PINE	NO – NO –	 	
93 16" PINE 94 10" GUM 95 32" OAK	NO – NO – NO –		_ _ _	261 262 263	8" MAGNOLIA YES ES 20" OAK YES ES 30" PINE YES ES 11" OAK YES ES	SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS   SSENTIAL SITE IMPROVEMENTS	EXEMPT YES EXEMPT	1/3 (50%)	427 12" PINE 428 13" PINE 429 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS NO - YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – – – EXEMPT –	
96 12" MAGNOLIA 97 36" POPLAR	NO – NO –	<del>-</del>		262 263 264 265	10" OAK YES ES 10" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	430 12" PINE 431 12" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	
98 12" OAK 99 10" MAGNOLIA	NO NO NO NO NO NO NO NO NO -		-	266	15 PINE   YES   ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_	432 19" PINE 433 15" PINE 434 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –	
100 8" MAPLE 101 7" MAGNOLIA 102 16" OAK	NO – NO – NO –		- - -	268 269 270	16" PINE YES ES 16" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	- - -	435 21" PINE (BELOW SPLIT) 436 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT –  EXEMPT –  EXEMPT –	
103 14" GUM 104 20" PINE	NO		-	270 271 272 273 274 275 276 277	19" PINE YES ES 9" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	-	437 14" PINE 438 12" PINE 439 48" LIVE OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	
105 8" OAK 106 17" PINE 107 12" PINE	NO – NO – NO – NO –		_ _ _	273 274 275	9" OAK YES ES 15" PINE YES ES 10" OAK YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	_ _ _	439 48" LIVE OAK 440 27" LIVE OAK 441 21" OAK	NO – NO – NO –		<u>Existing Tree Legend</u> <u>Remove</u> <u>Remain</u> <u>TREE MITIGATION</u>
108 16" PINE 109 11" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		276 277	21" PINE YES ES 15" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	442 21" OAK 443 17" OAK	NO – NO –	 	TOTAL PINE TREE DBH = 495"  - Existing Significant  Flowering Trees  TOTAL PINE TREE DBH = 495"  REQUIRED # OF PINE PLUGS = (1 / 3) * 0.5 * 495 = 83 PLUGS  **SEF_LANDSCAPE_PLAN_FOR_PROVIDED_PINE_PLUGS (LONG LEAF PINE)
110 16" PINE 111 13" GUM	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	-	278 279 280		SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		444 24" OAK 445 23" PINE	NO – NO –	<del>-</del> <del>-</del> <del>-</del>	SEE EANDSCALE LEAN FOR THOUSE TIME LEGGS (EGING EEAL FINE)
112 1/" PINE 113 19" PINE 114 20" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	280 281 282	14" PINE YES ES 17" PINE YES ES 18" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	446 22" PINE 447 52" OAK 448 26" PINE	NO – NO – YES ESSENTIAL SITE IMPROVEMENTS		TOTAL 100% MITIGATION TREE DBH = 227"  - Existing Significant TOTAL 75% MITIGATION TREE DBH = 29"  Hardwood & Non- TOTAL 50% MITIGATION TREE DBH = 19"
115 10" OAK 116 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	-	282 283 284	18" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT		449 23" PINE 450 36" OAK 451 27" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS NO		Pine Conifer Trees  TOTAL 25% MITIGATION TREE DBH = 19"  REQUIRED # OF REPLACEMENT TREES (100% MITIGATION) = (2 / 3 * 1.0 * 227)
117 15" PINE 118 9" OAK 119 11" OAK	YES ESSENTIAL SITE IMPROVEMENTS NO - NO -	EXEMPT — —	_ _ _	285 286 287	14" PINE YES ES 20" PINE YES ES 13" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	- - -	452 20" MAGNOLIA	YES ESSENTIAL SITE IMPROVEMENTS NO - NO -		= 151 TREES — Existing Significant REQUIRED # OF REPLACEMENT TREES (75% MITIGATION) = (2 / 3 * 0.75 * 29)
120 17" OAK 121 21" PINE	NO	_ _ 	- - 1/3 (50%)	288	10" MAPLE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		454 20" PINE 455 20" OAK 456 13"-13" TWIN HOLLY	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	Pine Trees  = 15 TREES  REQUIRED # OF REPLACEMENT TREES (50% MITIGATION) = (2 / 3 * 0.5 * 19)  = 6 TREES  = 15 TREES
122 24" PINE 123 15" OAK 124 17" GUM	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	YES EXEMPT EXEMPT	1/3 (50%)	289 290 291 292 293	16 PINE YES ES 22" PINE YES ES 16" PINF YES FO	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	<u>-</u> -	456 13"-13" TWIN HOLLY 457 14" & 15" PINE (2 TREES) 458 24" MAPLE	NO – YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS		ー Existing Regulated REQUIRED # OF REPLACEMENT TREES (25% MITIGATION) = (2 / 3 * 0.25 * 19) Flowering Trees = 3 TREES
125 9" OAK 126 12" PINE	NO — — YES ESSENTIAL SITE IMPROVEMENTS	– EXEMPT	-	293 294	15" PINE YES ES  13" PINE YES ES  16" PINF YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT		459 24" PINE 460 16" OAK	YES ESSENTIAL SITE IMPROVEMENTS NO -		*SEE LANDSCAPE PLAN FOR PROVIDED REPLACEMENT TREES  - Existing Regulated
127 13" PINE 128 13" PINE 129 15" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	-	294 295 296 297	16" PINE YES ES  18" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	_	461 20" GUM 462 20" PINE 463 12" GUM	NO - NO - YES ESSENTIAL SITE IMPROVEMENTS		- Existing Regulated  Hardwood & Non-  Pine Conifer Trees
130 12" PINE 131 14" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	298	21" PINE YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT  YES	- - 1/3 (50%)	464 14" OAK 465 18" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS NO -	EXEMPT — — — —	Existing Regulated
132 14" GUM 133 20" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT		299 300 301	97" DINE   VES   F	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES YES	1/3 (50%) 1/3 (50%) 2/3 (25%)	466 16" PINE 467 14" PINE	NO - NO - VES ESSENTIAL SITE IMPROVEMENTS		Pine Trees  VILMINGTON
134 24" PINE 135 15" PINE 136 10" GUM	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	302 303 304	10" CATALPA YES ES	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES	2/3 (25%)	469 20" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT         —           EXEMPT         —           EXEMPT         —	Approved Construction Plan  Name  Date  Public Services • Engineering Division
137 14" PINE 138 13" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_	305 306 307	13" GUM YES ES 31" PINE NO	SSENTIAL SITE IMPROVEMENTS –	EXEMPT EXEMPT —		471 20" PINE 472 17" OAK	NO 1 – 1	EXEMPT — — — — — — — — — — — — — — — — — — —	APPROVED STORMWATER MANAGEMENT PLAN
139 9" OAK 140 15" PINE 141 14" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_	307 308 309	22" PINE YES ES 14" GUM YES ES 14" PINE NO	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS -	EXEMPT EXEMPT —		473 11" GUM 474 7" MAGNOLIA 475 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT —  EXEMPT —  EXEMPT —	Planning
142 18" DINE	NO – NO –		_ _ _	310 311	17" MAPLE NO 32" PINE NO	- - -		_ _ _	476 15" PINE	YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	Fire
143 16" PINE 144 26" PINE 145 24" PINE	YES ESSENTIAL SITE IMPROVEMENTS NO -	YES - -	1/3 (50%)	312 313	22" GUM NO	-	_ _ _		478 16" OAK	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	EVISTING PROTECTED TREES CHART  DATE:
146 28" OAK 147 18" PINE 148 16" GUM	NO – YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	314 315 316	11" GUM NO	- - -		_ _ _	480 20" PINE 481 13" PINE 482 15" PINE	YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT         —           EXEMPT         —           EXEMPT         —	4010 CAROLINA BEACH ROAD  11-17-15
148 16" GUM 149 17" PINE 150 14" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	-	317 318	12" YELLOW POPLAR NO 9"-7" TWIN YELLOW NO	_		-	482 15" PINE 483 11" PINE 484 18" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	ECHO FARM APARTMENTS  WILMINGTON TOWNSHIP  NEW HANOVER COUNTY  NORTH CAROLINA  DRAWN:
151 13" PINE 152 13" GUM 153 18" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT FXFMPT	_	319	12" GUM NO	<u>-</u>	<u>-</u> -	_				JCB
153 18 PINE 154 11" GUM 155 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_ _ _	320 321 322	9" POPLAR NO 16"-8" TWIN GUM NO 19" GUM YES ES	- SSENTIAL SITE IMPROVEMENTS	– – EXEMPT		487 14" PINE 488 12" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT – EXEMPT –	MALPASS ENGINEERING & SURVEYING, P.C.  1134 SHIPYARD BOULEVARD  WILMINGTON, NORTH CAROLINA 28412  PROJECT NO:
156 17" PINE 157 12" PINE 158 14" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	_	322 323 324	24" PINE YES ES 24" PINE NO	SSENTIAL SITE IMPROVEMENTS -	YES	1/3 (50%)			1 REVISED TO ADD OFF-SITE TREES TO CHA	FINAL DRAWING FOR REVIEW  WILMINGTON, NORTH CAROLINA 28412  PROJECT NO: 260
158 14" PINE 159 14" PINE 160 14" GUM	YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	325 326 327 328	14" GUM NO 14" GUM NO 15" GUM NO	- - -	_ _ _ _	_ _ _				PURPOSES ONLY
161 14" PINE 162 16" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	FXFMPT	_ _	328 329		SSENTIAL SITE IMPROVEMENTS	_ YES	2/3 (75%)				10 S. CARDINAL DRIVE WILMINGTON, NORTH CAROLINA 28403
163 17" PINE 164 16" PINE 165 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT	_ _ _	330	12" PINE NO	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	EXEMPT YES				REV NO.	DESCRIPTION DATE  REVISIONS  DATE  OF: 22
166 15" GUM 167 17" PINE	YES ESSENTIAL SITE IMPROVEMENTS	EXEMPT EXEMPT EXEMPT	-	332 333 334	O" TALLOW VES E	SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS SSENTIAL SITE IMPROVEMENTS	YES EXEMPT EXEMPT	1/3 (50%) 2/3 (50%) -				
168   16" PINE	YES ESSENTIAL SITE IMPROVEMENTS  arms Apartments(11-19-15).dwg	EXEMPT	_	335	12" OAK YES ES	SSENTIAL SITE IMPROVEMENTS	EXEMPT	_				

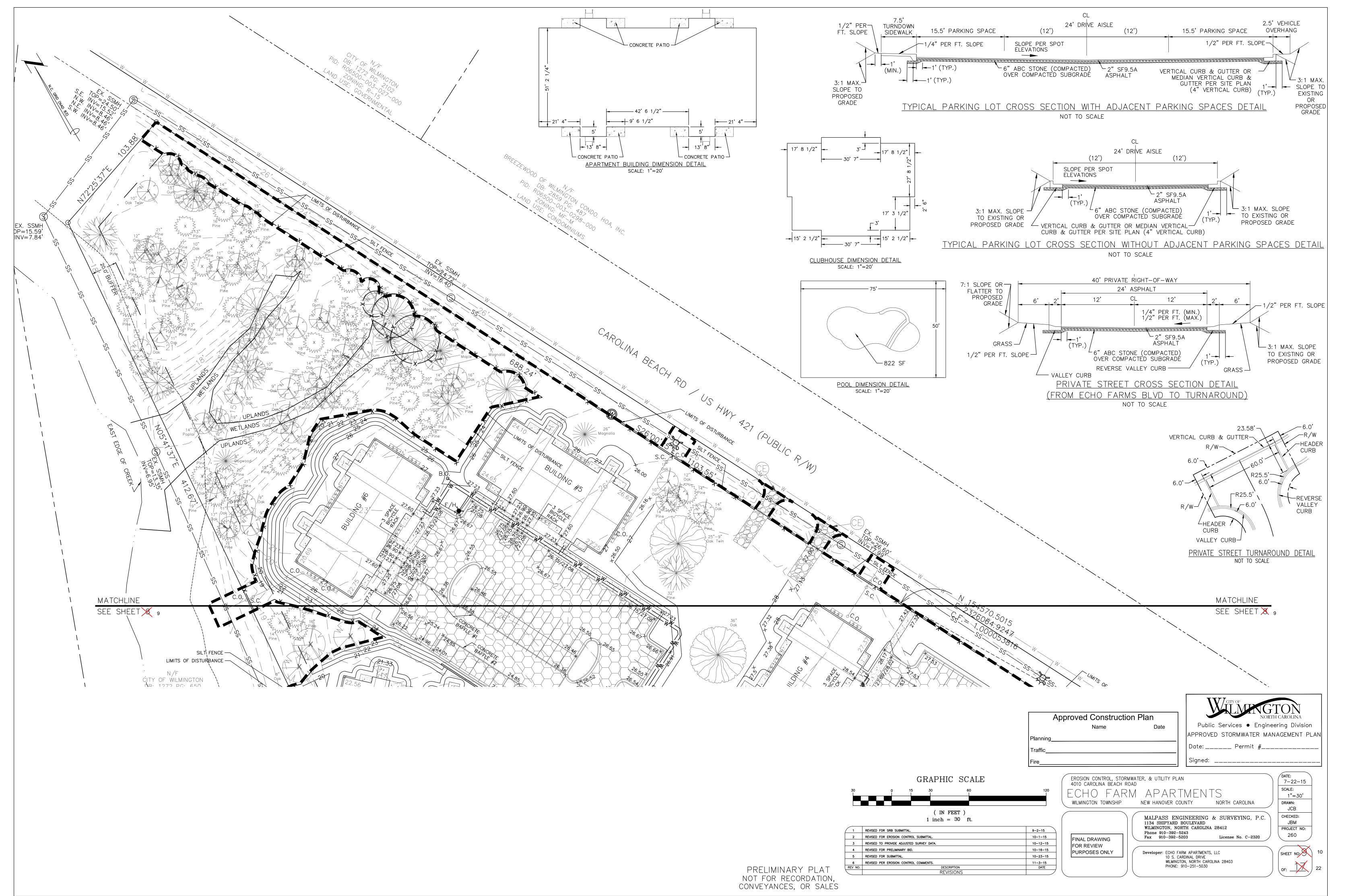












Permanent Seeding Specifications #6.11 — Specifications (Specifictions are as per the "Erosion and Sediment Control Planning and Design Manual" of the state of North Carolina) Table 6.11p - Seeding No. 1CP for: Well-to Poorly Drained soils with Good Moisture Retention; Low Maintenance

Seeding mixture Species Rate (lb/acre) Tall fescue Pensacola Bahiagrass Sericea lespedeza Kobe lespedeza

Sept. 1

Seeding Notes 1. From Sept. 1 — Mar. 1, use unscarified sericea seed 2. On poorly drained sites omit sericea and increase Kobe to 30 lb/acre. 3. Where a neat appearance is desired, omit sericea and increase Kobe to 40 lb/acre.

Sept. 1 - Oct. 3

Coastal Plain — Dec. 1—Apr. 15 Between Apr. 15 & Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15, add 25 lb/acre rye (grain).

Seeding dates Possible Early spring: Feb. 15 - Mar. 20 Feb. 15 - Apr. 30

- Sept. 30

|Soil amendments - Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by tacking with asphalt, netting, or roving or by crimping with a mulch anchoring tool. A disk with blades set

nearly straight can be used as a mulch anchoring tool. |Maintenance - If growth is less than fully adequate, refertilize in the second year, according to soil tests or topdress with 500 lb/acre 10-10-10 fertilizer. Mow as needed when sericea is omitted from the mixture. Reseed, fertilize, and mulch damaged areas immediately.

Table 6.11q — Seeding No. 2CP for: Well—to Poorly Drained soils with Good Moisture Retention; High Maintenance

Seeding mixture Species Rate (lb/acre) Tall fescue (blend of two or three improved varieties) Rye (grain)

Seeding dates Best: Šept. 15 - Oct. 15

| Possible: Sept. 1 - Oct. 31 or Feb. 15 - Apr. 30

Soil amendments - Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by tacking with asphalt, netting, or roving or by crimping with a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. |Maintenance - Fertilize according to soil tests or apply 40 lb/acre nitrogen in Jan. or Feb., 40 lb in Sept., and 40 lb in Nov., from a 12-4-8, 16-4-8, or similar turf fertilizer. Avoid fertilizer applications during

warm weather, as this inceases stand losses to disease. Reseed, fertilize, and mulch damaged areas

immediately. Mow to a height of 2.5-3.5 inches as needed. Table 6.11r - Seeding No. 3CP for: Dry Sands to Sandy Loams;

High Maintenance, Fine Turf

Seeding mixture Rate (bu/1,000 ft^2) Species Tifway or Tifway II Minimum: 3 hybrid Bermudagrass Rapid cover: 10

Seeding Notes 1. Sprig or sod (Practice 6.12, Sodding). Moisture is essential during initial establishment. Sod must be kept well watered for 2-3 weeks, but can be planted earlier or later than sprigs. 2. Common Bermuda can be seeded or sprigged but does not produce a high—quality turf. It is also less cold tolerant than the hybrids, more weed prone, and a pest in flower beds and specimen plantings.

Planting dates Apr. - July

Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer, or 50 lb/acre nitrogen from turf-type slow-release fertilizer. Add 25-50 lb/acre nitrogen at 2- to 3-week intervals through midsummer. |Sprigging - Plant sprigs in furrows with a tractor-drawn transplanter, or broadcast by hand. Furrows should be 4-6 inches deep and 2 ft apart. Place sprigs about 2 ft apart in the row with one

end at or above ground level (Figure 6.11d). Broadcast at rates shown above, and press sprigs into the top 1/2-2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface.

|Maintenance - Water as needed and mow to 3/4- to 1-inch height. Topdress with 40 lb/acre nitrogen in Apr., 50 lb in May, 50 lb in June, 30 lb in July, and 25-50 lb in Aug.

Table 6.11s - Seeding No. 4CP for: Well-Drained Sandy Loams to Dry Sands, Coastal Plain and Eastern Edge of Piedmont; Low—to Medium—Care Lawn

Seeding mixture 10-20 lb/acre (seed) or Centipedegrass

Seeding dates

Mar. — June (Sprigging can be done through July where water is available for irrigation.)

33 bu/acre (sprigs)

Soil amendments — Apply lime and fertilizer according to soil tests, or apply 300 lb/acre 10-10-10. Sprigging — Plant sprigs in furrows with a tractor—drawn transplanter, or broadcast by hand. Furrows should be 4-6 in ches deep and 2 ft apart. Place sprigs about 2 ft apart in the row with one end at or above ground level (Figure 6.11d)

Broadcast at rates shwon above, and press sprigs into the top 1/2-2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface. Mulch — Do not mulch. Maintenance — Fertilize very sparingly — 20 lb/acre nitrogen in spring with no phosphorus. Centipedegrass

Table 6.11t — Seeding No. 5CP for: Well—Drained Sandy Loams to Dry Sands;

Low Maintenance Seeding mixture Species Pensacola Bahiagrass Sericea lespedeza Common Bermudagrass

cannot tolerate high pH or excess fertilizer.

German millet

. Where a neat appearance is desired, omit sericea. 2. Use common Bermuda only on isolated sites where it cannot become a pest. Bermudagrass may be replaced with 5 lb/acre centipedegrass.

Seeding dates Apr. 1 — July 15

Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor by tacking with asphalt, roving, or netting or by crimping with a mulch anchoring tool. A disk with blades set nearly

straight can be used as a mulch ancoring tool. |Maintenance - Refertilize the following Apr. with 50 lb/acre nitrogen. Repeat as growth requires. May be mowed only once a year. Where a neat appearance is desired, omit sericea and mow as often as need. Table 6.11v - Seeding No. 7CP for: Grass-lined Channels; Coastal Plain, Lower Piedmont, and Dry Soils in the Central Piedmont Seeding mixture

Species Rate (lb/acre) 40-80 (1-2 lb/1,000 ft^2) Common Bermudagrass

Seeding dates Coastal Plain: Apr. — July |Piedmont: Apr. 15 - June 30

Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer. |Mulch — Use jute, excelsior matting, or other effective channel lining material to cover the bottom of

channels and ditches. The lining should extend above the highest calculated depth of flow. On channel side slopes above this height, and in drainages not requiring temporary linings, apply 4,000 lb/acre grain straw and anchor straw by stapling netting over the top. Mulch and anchoring materials must not be allowed to wash down slopes where they can clog drainage | Maintenance — A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently.

Refertilize the following Apr. with 50 lb/acre nitrogen. Refer to Appendix 8.02 for botanical names

Temporary Seeding

Piedmont and Coastal Plain,

(Specifications are as per the "Erosion and Sediment Control Planning and Design Manual" of the state of North Carolina) Table 6.10a — Temporary Seeding Recommendations for Late Winter and Early Spring

Seeding Mixture Species Rate (lb/acre) Rye (grain) Annual lespedeza (Kobe in

Korean in Mountains) Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Mountains - Above 2500 ft: Feb. 15-May 15 Below 2500 ft: Feb. 1-May 1 Piedmont - Jan. 1-May 1

Soil amendments — Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Table 6.10b Temporary seeding Recommendations for Summer Seedina mixture

Species Rate (lb/acre) German millet

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates Mountains — May 15—Aug. 15 Piedmont — May 1—Aug. 15 Coastal Plain — Apr. 15—Aug. 15

damage.

Soil amendments — Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Maintenance — Řefertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damaae.

Table 6.10c Temporary Seeding Recommendations for Fall Seeding mixture Rate (lb/acre) Species Rye (grain)

Seedina dates Mountions - Aug. 15-Dec. 30 Coastal Plain and Piedmont — Aug. 15—Dec. 30

ZONÉS

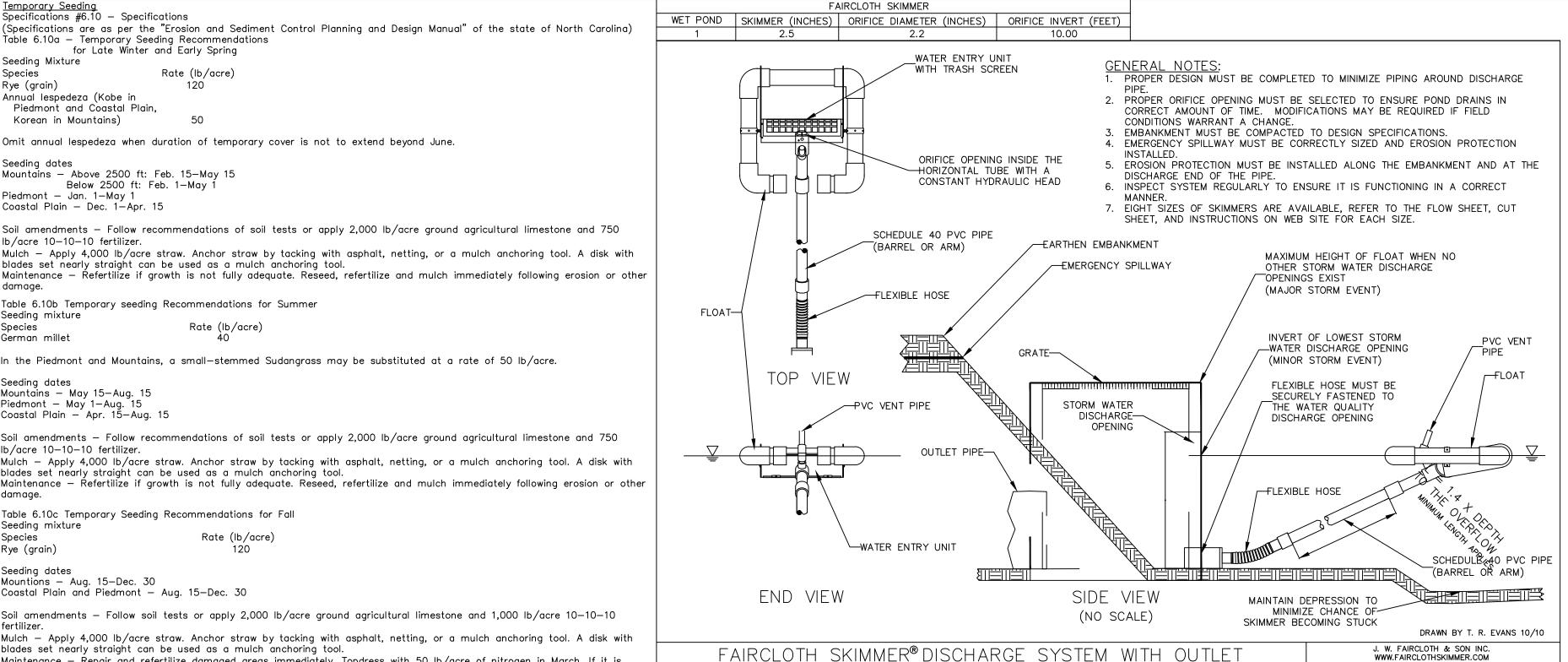
THAN 3:1

FLATTER

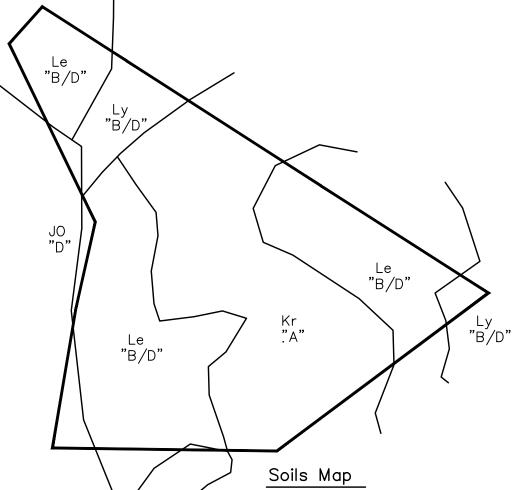
ALL OTHER

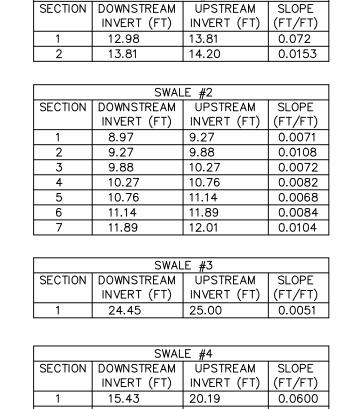
Soil amendments — Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10—10—10 Mulch — Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with

blades set nearly straight can be used as a mulch anchoring tool. Maintenance — Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.



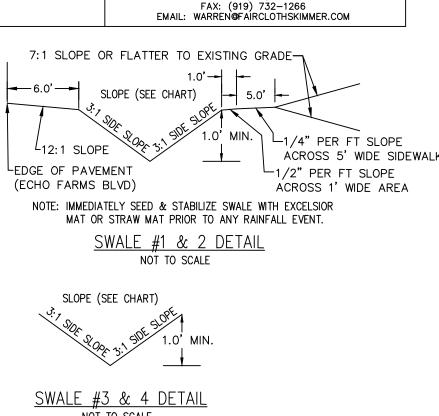
GROUND STABILIZATION SITE AREA STABILIZATION STABILIZATION TIME DESCRIPTION FRAME EXCEPTIONS TIME FRAME PERIMETER DIKES, SWALES, DITCHES 7 DAYS NONE AND SLOPES HIGH QUALITY 7 DAYS WATER (HQW) NONE IF SLOPES ARE 10 FEET OR SLOPES STEEPER LESS IN LENGTH AND ARE 7 DAYS NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED 7 DAYS FOR SLOPES SLOPES 3:1 OR 14 DAYS GREATER THAN 50 FEET IN LENGTH NONE (EXCEPT FOR ARFAS WITH 14 DAYS PERIMETERS AND HQW SLOPES FLATTER ZONES) THAN 4:1 'NEW HANOVER COUNTY LAND QUALITY SEEDING DEADLINES: CALENDAR DAYS FOR ALL SLOPES & 15 WORKING DAYS FOR ALL OTHER AREAS. \*THE SHORTER STABILIZATION TIME FRAME BETWEEN THE ABOVE CHART AND THE NEW HANOVER COUNTY LAND QUALITY SEEDING DEADLINES, FOR THE RESPECTIVE AREAS, SHALL BE FOLLOWED.





2 20.19

STRUCTURE

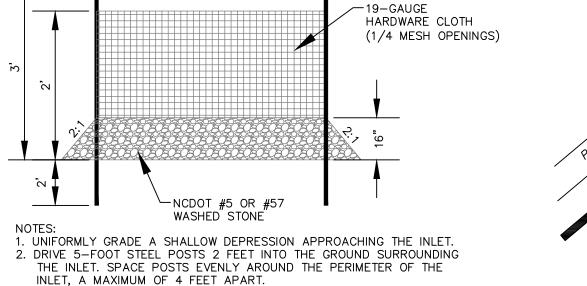


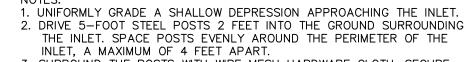
TELEPHONE: (919) 732-1244

ACROSS 5' WIDE SIDEWALK

ALL EROSION CONTROL MEASURES WILL BE CHECKED EVERY 7 DAYS OR AFTER FACH RAIN PRODUCING 1/2 INCHES OR MORE WHICH EVER COMES FIRST.

- SEDIMENT WILL BE REMOVED FROM BEHIND SILT FENCES WHERE SEDIMENT IS 0.5 FEET DEEP AND REPAIR FABRIC IF TORN, LEAKING OR FAILING. 3. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED, OR TRACKED ONTO THE
- CONSTRUCTION ENTRANCE OR ROADWAYS. 4. CHECK SEDIMENT BASINS AFTER PERIODS OF SIGNIFICANT RUNOFF. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY OR IF THE ROCK IS DISLODGED.
- INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH SIGNIFICANT RAINFALL REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING. CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBAKMENT TO SLIGHTLY ABOVE GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY. AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY
- 6. INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.
- 7. RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME
- LOCATIONS. ROCK DAM: CHECK SEDIMENT AFTER EACH RAINFALL. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME. CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY.
- INSPECT ALL MULCHES PERIODICALLY AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION, OR FAILURE. WHERE EROSION IS OBSERVED. APPLY ADDITIONAL MULCH. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED, AND REINSTALL MULCH. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- 10. INSPECT CHECK DAMS AND CHANNELS FOR DAMAGE AFTER EACH RUNOFF EVENT ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
- 11. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.
- 12. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- 13. INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT 14. INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH
- SIGNIFICANT (ONE—HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED: IF SO REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE
- SKIMMER FROM PLUGGING WITH ICE. 15. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. SEE GROUND STABILIZATION CHART FOR STABILIZATION TIME FRAME.

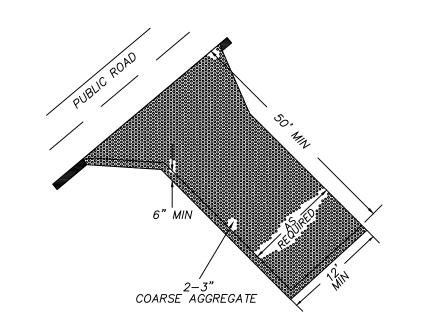




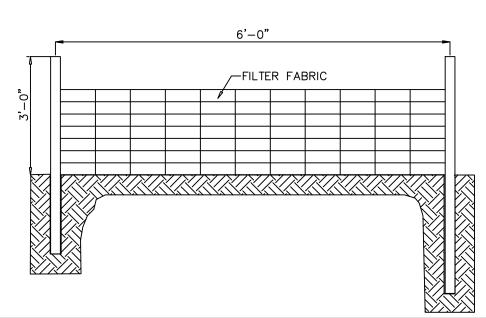
4' MAX.

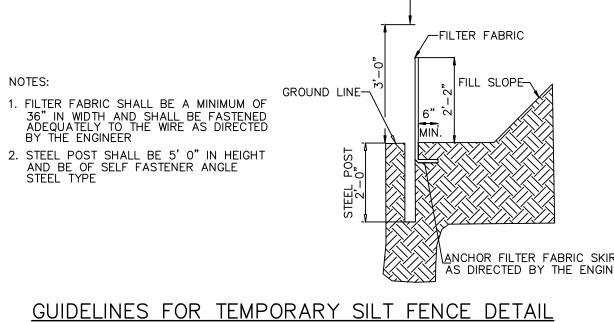
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.

HARDWARE CLOTH & GRAVEL NLET PROTECTION DETAIL NOT TO SCALE

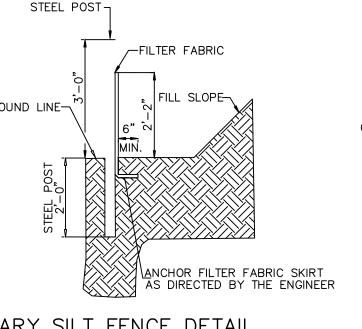


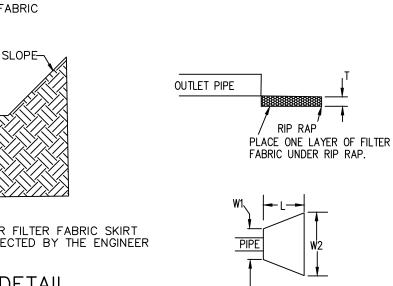




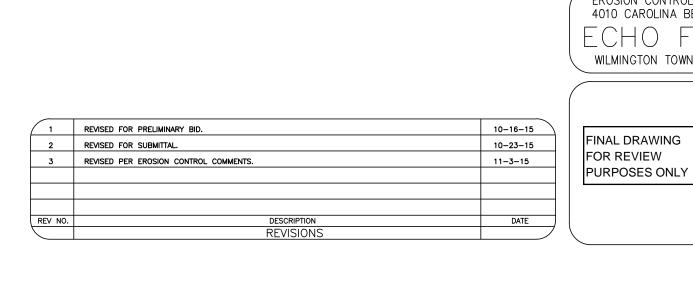


NOT TO SCALE





**OUTLET PROECTION** 





10-1-15 4010 CAROLINA BEACH ROAD SCALE: N.T.S. NEW HANOVER COUNTY WILMINGTON TOWNSHIP NORTH CAROLINA DRAWN: JCB MALPASS ENGINEERING & SURVEYING P.C. CHECKED: 1134 SHIPYARD BOULEVARD JBM WILMINGTON, NORTH CAROLINA 28412 PROJECT NO: Phone 910-392-5243 260 License No. C-2320 Fax 910-392-5203 SHEET NO:10 Developer: ECHO FARM APARTMENTS, LLC 10 S. CARDINAL DRIVE

WILMINGTON, NORTH CAROLINA 28403 PHONE: 910-251-5030

**Approved Construction Plan** 

