

TRACTOR SUPPLY COMPANY
AT
VIRGINIA MARKET PLACE COMMERCIAL CENTER

WIRTZ TSC, LLC
JOEL R. SHEPHERD
ANN CLAIRE SHEPHERD

2.412 ACRES ZONED PCD
CASE # R 06-12-01
PORTION OF TAX PARCEL 44-6
BOONE MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA
SEPTEMBER 22, 2010
REVISED NOVEMBER 1, 2010

POST DRAINAGE TOTAL SITE
SHEET 8 OF 22

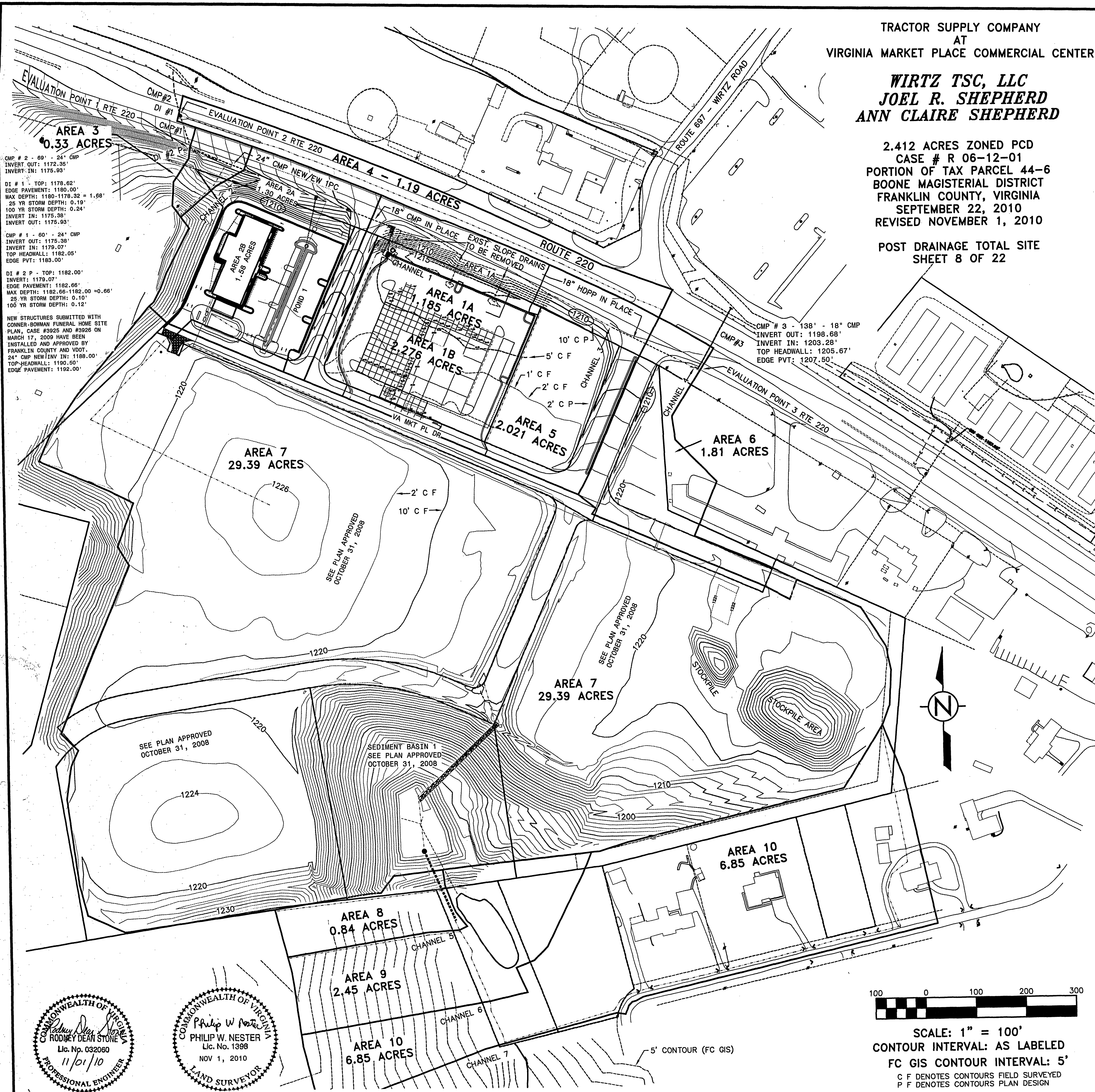
POST DRAINAGE AREAS AND COMPUTATIONS APPROVED WITH CONNER-BOWMAN FUNERAL HOME SITE PLAN, CASE #3925 AND #3926 ON MARCH 17, 2009.

POST DRAINAGE AREA 1 REVISED TO INCLUDE INCREASED IMPERVIOUS AREAS AND STORMWATER MANAGEMENT FACILITIES FOR THE TRACTOR SUPPLY SITE.
POST DRAINAGE AREA 5 HAS BEEN SLIGHTLY REDUCED BY REDIRECTING A SMALL PORTION INTO POST DRAINAGE AREA 1.

POST DRAINAGE AREA 7 REVISED TO ADD FUNERAL HOME DUMPSTER GRAVEL PAD.

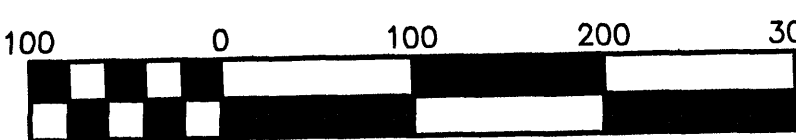
NUMBER	TOTAL AREA	IMPERVIOUS AREA C=0.95, CN=98	GRAVEL AREA C=0.75, CN=88	GRASS AREA C=0.35, CN=61	FOREST AREA C=0.25, CN=55	AVERAGE CN OR AVERAGE C
1A	1.185	0.469	0.000	0.716	0.000	0.59
1B	2.276	2.129	0.000	0.147	0.000	0.91
2A	1.300	0.370	0.000	0.930	0.000	0.52
1A + 2A	2.485	0.839	0.000	1.646	0.000	0.55
2B	1.580	1.310	0.000	0.270	0.000	0.85
3	0.330	0.100	0.000	0.230	0.000	0.53
4	1.190	0.630	0.000	0.560	0.000	0.67
5	2.021	0.630	0.000	1.391	0.000	0.54
6	1.810	0.540	0.000	1.270	0.000	0.53
5+6	3.831	1.170	0.000	2.661	0.000	0.53
7	29.390	0.260	0.026	29.104	0.000	61
8	0.840	0.000	0.000	0.000	0.840	55
9	2.450	0.000	0.000	0.940	1.510	57
10	6.850	1.550	0.000	3.600	1.700	68

FLOW PATH AREA 1A 200' OVERLAND SHEET FLOW @ 2.0%, GRASS, n = 0.24 134' SHALLOW CONCENTRATED FLOW @ 10.0%, UNPAVED
FLOW PATH AREA 1B 50' OVERLAND SHEET FLOW @ 1.4%, PAVEMENT, n = 0.015 271' GUTTER, A=11.3, WP=10.5, @ 1.4%, n=0.013 45' - 18" CMP PIPE FLOW, A=1.77, WP=4.71, @ 1.0%, n=0.024 18' CHANNEL FLOW, A=5.32, WP=10.64, @5.26%, n=0.05 EC-2 MAT
FLOW PATH AREA 2A 82' - 18" CMP PIPE FLOW, A=1.77, WP=4.71, @ 1.0%, n=0.024 223' CHANNEL FLOW, A=5.32, WP=10.64, @5.26%, n=0.05 EC-2 MAT
FLOW PATH AREA 2B 28' OVERLAND SHEET FLOW @ 2%, PAVEMENT, n = 0.015 84' OVERLAND SHEET FLOW @ 5.4%, GRASS, n=0.24 60' - 15" HDPP, A=1.227, WP=3.926, @ 0.5%, n=0.013 118' SHALLOW CONCENTRATED FLOW @ 0.5%, UNPAVED 89' - 24" HDPP, A=3.14, WP=6.28, @ 0.5%, n=0.013
FLOW PATH AREA 3 216' OVERLAND SHEET FLOW @ 20.00%, GRASS, n = 0.24
FLOW PATH AREA 4 58' OVERLAND SHEET FLOW @ 0.5%, PAVEMENT, n = 0.013 142' OVERLAND SHEET FLOW @ 1.00%, GRASS, n = 0.24 666' SHALLOW CONCENTRATED FLOW @ 2.85%, UNPAVED 168' CHANNEL FLOW, A=4.6, WP=7.5, @6.00%, n=0.013 CONCRETE
FLOW PATH AREA 5 200' OVERLAND SHEET FLOW @ 0.70%, GRASS, n = 0.24 275' SHALLOW CONCENTRATED FLOW @ 2.16%, UNPAVED
FLOW PATH AREA 6 136' - 18" HDPP PIPE FLOW, A=1.77, WP=4.71, @0.55%, n=0.013 50' CHANNEL FLOW, A=4.6, WP=7.5, @1.00%, n=0.05 EC-2 MAT
FLOW PATH AREA 7 200' OVERLAND SHEET FLOW @ 2.00%, GRASS, n = 0.24 200' SHALLOW CONCENTRATED FLOW @ 2.00%, UNPAVED 1541' CHANNEL FLOW, A=5.32, WP=10.64, @2.00%, n=0.05 EC-2 MAT 210' CHANNEL FLOW, A=5.32, WP=10.64, @31.00%, n=0.15 RIP/RAP 120' SHALLOW CONCENTRATED FLOW @ 0.50%, UNPAVED
FLOW PATH AREA 8 200' OVERLAND SHEET FLOW @ 26.00%, WOODS, n = 0.40 136' SHALLOW CONCENTRATED FLOW @ 21.00%, UNPAVED 88' SHALLOW CONCENTRATED FLOW @ 14.00%, UNPAVED
FLOW PATH AREA 9 200' OVERLAND SHEET FLOW @ 26.00%, WOODS, n = 0.40 146' SHALLOW CONCENTRATED FLOW @ 21.00%, UNPAVED 158' CHANNEL FLOW, A=3.96, WP=9.58, @4.90%, n=0.03 NATURAL CHANNELS
FLOW PATH AREA 10 200' OVERLAND SHEET FLOW @ 7.00%, GRASS, n = 0.24 1060' SHALLOW CONCENTRATED FLOW @ 8.00%, UNPAVED



COMMONWEALTH OF VIRGINIA
Philip W. Nester
Rodney Dean Stone
Lic. No. 032060
11/01/10
PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
Philip W. Nester
Lic. No. 1398
NOV 1, 2010
LAND SURVEYOR



SCALE: 1" = 100'
CONTOUR INTERVAL: AS LABELED
FC GIS CONTOUR INTERVAL: 5'
C F DENOTES CONTOURS FIELD SURVEYED
P F DENOTES CONTOURS PLAN DESIGN