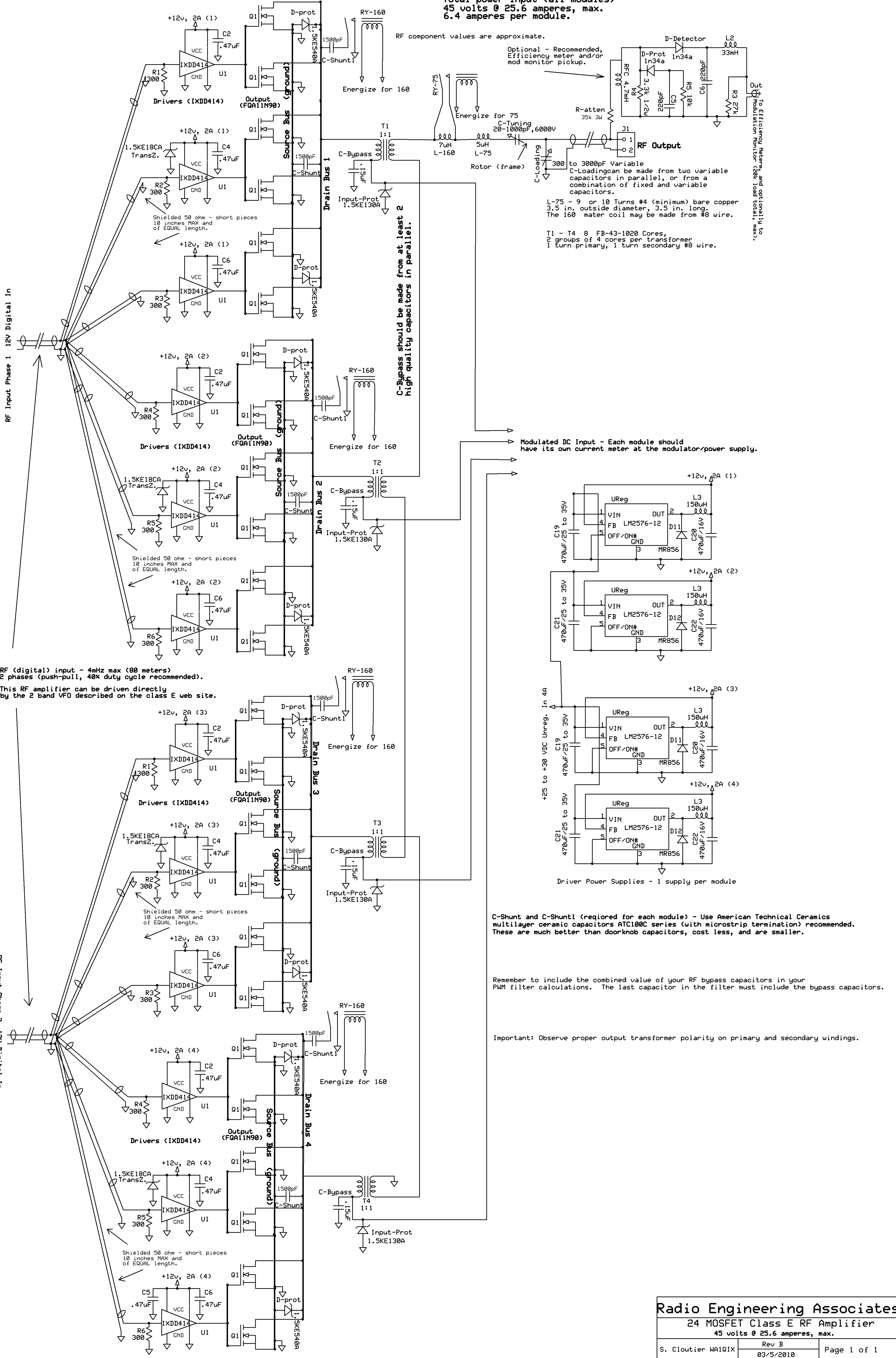


**1152 Watt DC input (at carrier) (1000W. output typical)
4 module, 24 MOSFET, 80/160 Meter Class E RF Amplifier (with driver)**

Total power input (all modules)
45 volts @ 25.6 amperes, max.
6.4 amperes per module.

RF component values are approximate.

Optional - Recommended,
Efficiency meter and/or
mod monitor pickup.



C-Bypass should be made from at least 2 high quality capacitors in parallel.

Optional - Recommended,
Efficiency meter and/or
mod monitor pickup.

R-atten 35k 3W

J1

To Efficiency Meter, and optionally to Modulation Monitor (20k load total), max.

D-Detector
D-Prot 1n34a
RFC 4.7mH
L2 33mH
R3 27k
C22 220pF
C23 220pF
R5 10k
C24 100pF

RF Output

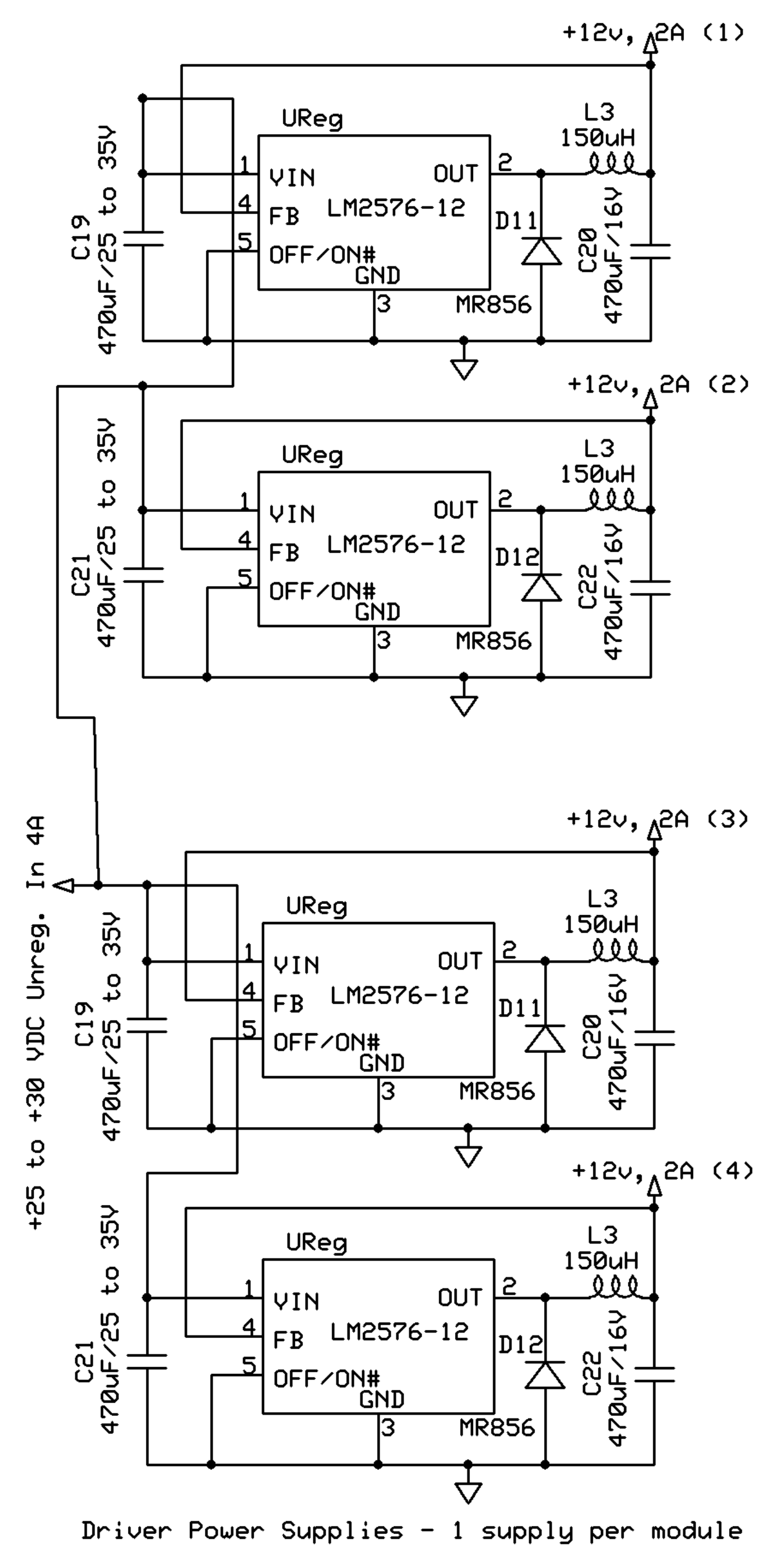
C-Loading 3000pF Variable
C-Loading can be made from two variable capacitors in parallel, or from a combination of fixed and variable capacitors.

L-75 - 9 or 10 Turns #4 (minimum) bare copper 3.5 in. outside diameter, 3.5 in. long. The 160 meter coil may be made from #8 wire.

T1 - T4 8 FB-43-1020 Cores,
2 groups of 4 cores per transformer
1 turn primary, 1 turn secondary #8 wire.

Modulated DC Input - Each module should have its own current meter at the modulator/power supply.

RF (digital) input - 4mhz max (80 meters)
2 phases (push-pull, 40% duty cycle recommended).
This RF amplifier can be driven directly by the 2 band VFO described on the class E web site.



C-Shunt and C-Shunt1 (required for each module) - Use American Technical Ceramics multilayer ceramic capacitors ATC100C series (with microstrip termination) recommended. These are much better than doorknob capacitors, cost less, and are smaller.

Remember to include the combined value of your RF bypass capacitors in your PWM filter calculations. The last capacitor in the filter must include the bypass capacitors.

Important: Observe proper output transformer polarity on primary and secondary windings.