

BOB BAKER

PROJECT: DRAINAGE RUN OFF CALCULATIONS - RATIONAL METHOD  
 PRIOR DEVELOPMENT  
 25 Year Frequency

Watering Surface	0.9	sq ft =	0.001 Acres
Gravel Surface	0.35	sq ft =	3.624 Acres
Green Space	0.35	sq ft =	1.621 Acres
Summary		sq ft =	5.245 Acres
C =	0.41		

Duration (D) = Time of concentration (TC)  
 $TC = 70.94L^{0.3917}C^{-1.1399}S^{-0.1885}$   
 where  
 L = 0.4923  
 C = 0.41  
 S = 0.0770  
 TC = 40.88  
 Duration (D) = 40.88 min  
 Intensity (I) = 4.51 in/hr  
 15% Reduction  
 $Q_p = 10.711$  cfs  
 9.104 cfs

POST DEVELOPMENT  
 25 Year Frequency

Watering Surface	0.9	sq ft =	1.000 Acres
Gravel Surface	0.35	sq ft =	3.624 Acres
Green Space	0.35	sq ft =	1.181 Acres
Summary		sq ft =	5.245 Acres
C =	0.46		

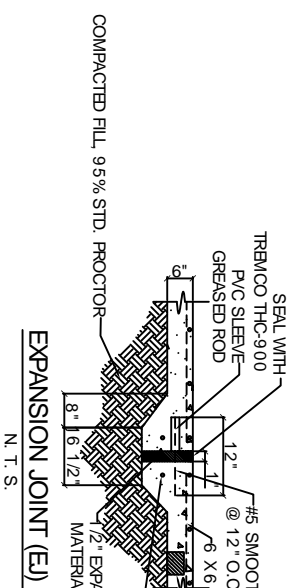
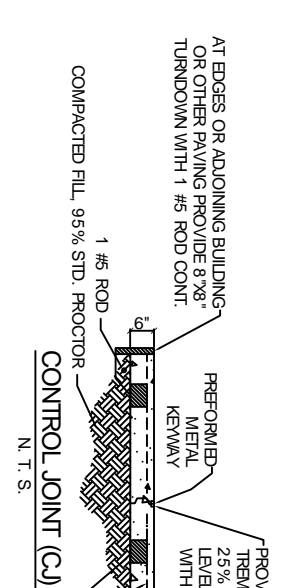
D = Time of concentration (TC)  
 $TC = 70.94L^{0.3917}C^{-1.1399}S^{-0.1885}$   
 where  
 L = 200  
 C = 0.46  
 S = 0.045  
 TC = 0 = 13.80  
 Intensity (I) = 7.15 in/hr  
 $Q_p = 18.803$  cfs

DEFLECTION REQUIRED:  
 ONE HOUR DEFLECTION  
 DISTENSION DIMENSIONS

DISCHARGE END AREA CALCULATIONS  
 where Q is allowable and d  
 $Q = CkQ^{1.48}d^{1.48}$   
 Allowable unit of friction loss per foot  
 Height above inlet  
 End area  
 Required conduit = 10.30 inch diameter

NOTES:  
 1) DRAIN PIPE & FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVIML CHLORIDE PLASTIC PIPE MEETING CLASS 100 C-900 PVC.  
 2) ELEVATIONS SHOWN ARE M.S.L.  
 3) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM FLAMEBET FLOOR TO START OF WORK  
 4) MUCK OUT 24" DEEP FOR FOUNDATION PAD MINIMUM OR TO UNDISTURBED SOIL CAPABLE OF 1500 PSF BEARING  
 5) DOWN SPOUTS SHALL FLOW INTO SUB-SURFACE DRAINAGE

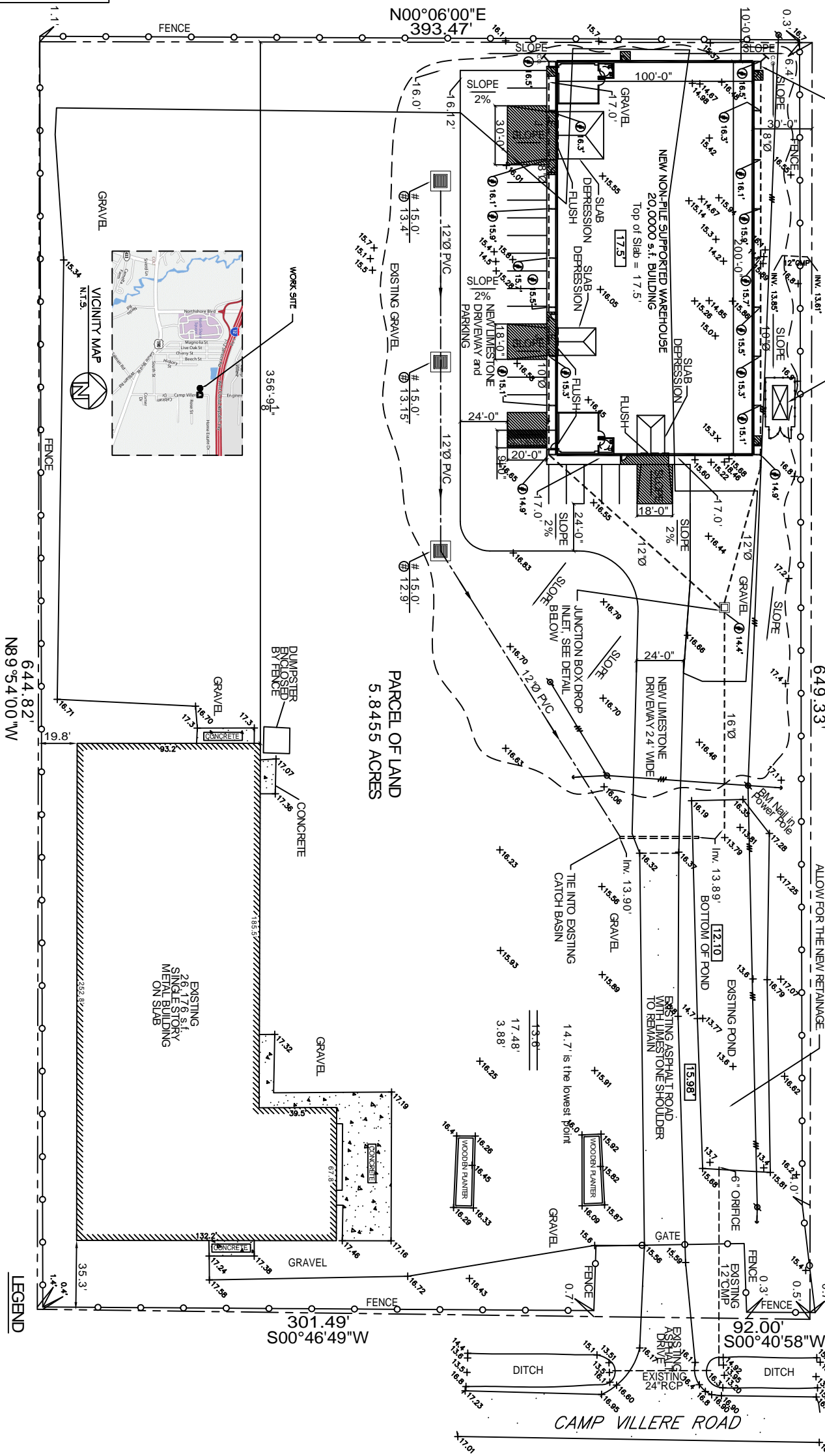
AT EDGES OR ADJOINING BUILDING OR OTHER PAVING PROVIDE 8"x8" TURNDOWN WITH 1 #5 ROD CONT.  
 PROVIDE REMOVABLE ZIP STRIPS SEAL WITH TREMACO TH-C-900 POLYURETHANE 10 YR. LIFE 25% MOVEMENT CAPABILITY. GRAY SELF LEVING SEALANT. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.  
 COMPACTED FILL, 95% STD. PROCTOR



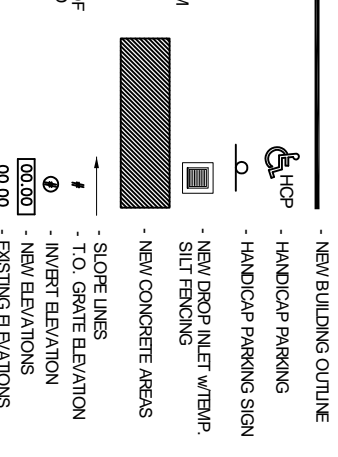
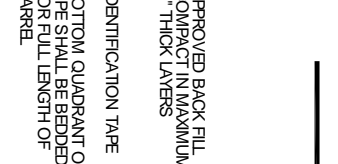
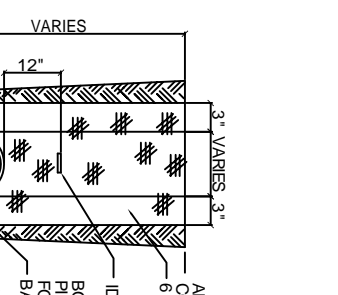
ALL GUTTERS AND DOWNSPOUTS TIE INTO SUB SURFACE DRAINAGE

NEW 500 GPD CHLORINATED TREATMENT PLANT WITH 6' HIGH WOODEN FENCE

FUND INLET  
 EXISTING POND SHALL BE DOLG OUT APPROX 1.5'. DEEPER AND FILL SHALL BE ADDED TO THE SIDES TO ACCOMPLISH A NEW BERM HEIGHT OF 15.98' TO ALLOW FOR THE NEW RETAINAGE



DRAINAGE / PAVING PLAN  
 SCALE: 1"= 30'-0"



REVISED 5-13-08  
 REVISED 4-29-08

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**NEW WAREHOUSE**  
 BOB BAKER  
 CAMP VILLERE  
 SUDELL, LA

**DRAINAGE AND PAVING PLAN**

REV: \_\_\_\_\_  
 SCALE: AS NOTED  
 JOB#: 1927  
 DATE: 3-28-08  
 SHEET 4  
**C-3**  
 OF 19