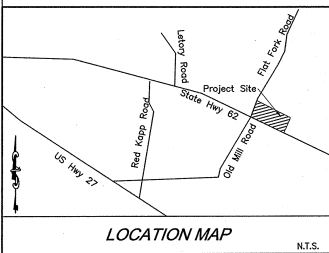


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**STORM STRUCTURE SCHEDULE**

Structure	Grate type	Top	Invert	Location
HW-1	-	1261.80	N 823687.38, E 2427774.46	
HW-2	-	1261.00	N 823647.51, E 2427783.42	
HW-3	-	1259.00	N 823692.13, E 2427698.58	
HW-4	-	1269.40	N 823626.98, E 2427987.09	
HW-5	-	1269.00	N 823646.78, E 2427946.34	
OS-1	B	1268.00	N 823681.67, E 2427785.09	
OS-2	B	1264.00	N 823657.75, E 2427694.17	
OS-3	B	1269.00	N 823637.45, E 2427976.55	

OS-Outlet Structure HW-Headwall  
 HW coordinates are at invert of pipe at face of headwall.  
 OS coordinates are at center of structure.  
 Grate Types:  
 A= East Jordan Iron Works frame and grate No.V-4074-1  
 B= John Bouchard and Sons frame and grate No. 4254  
 N.T.S.

**STORM PIPING SCHEDULE**

FROM	TO	SIZE	LENGTH	SLOPE
OS-1	HW-1	18"	17.92'	1.12%
HW-2	HW-3	24"	69.87'	2.00%
OS-2	HW-4	18"	28.95'	2.07%
OS-3	HW-5	18"	12.81'	3.90%

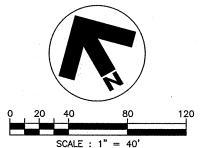
Lengths listed are horizontal lengths. Actual lengths will vary due to slope. All pipes over 15% shall be anchored.

**CALL BEFORE YOU DIG**

TENNESSEE ONE CALL  
 IN  
 TENNESSEE  
 CALL  
 1-800-351-1111

**THREE WORKING DAYS BEFORE YOU DIG**

It is the contractor's responsibility to contact utility companies prior to any construction. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE, CONFIRMATION TO THE LOCATION OF ALL UNDERGROUND UTILITIES IS WITHIN.



**LAND DEVELOPMENT SOLUTIONS**

310 SIMMONS RD., SUITE K KNOXVILLE, TENNESSEE 37922  
 PH. 865-671-2281 LDS PROJECT NO.

GRW PROJECT NO. 7711

**SITE ROUGH GRADING**  
 INDUSTRIAL PARK IMPROVEMENT  
 CITY OF WARTBURG, TENNESSEE

**GRW Engineers, Inc.**  
 Engineers, Architects, Planners  
 LOWERING LIABILITIES. INCREASING OPPORTUNITIES FOR BETTER. CHANGING PLANS.

DESIGNED:	DATE: February 2007
DRAWN:	SCALE: 1" = 40'
REVIEWED:	SHEET NO. C-3.2
APPROVED:	

ENGINEER SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

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NO.	DESCRIPTION	DATE	BY
REVISIONS			