

Technical drawing of a bolt and nut assembly. The main view shows a bolt with a hexagonal head and a threaded shank passing through a nut. The bolt head is labeled with dimensions:  $18^\circ V_{H_{max}}$  and  $18^\circ V_{H_{min}}$ . The shank is labeled with  $18^\circ V_{H_{max}}$  and  $18^\circ V_{H_{min}}$ . A circular detail view on the right shows a cross-section of the bolt head and nut, with a label  $18^\circ V_{H_{max}}$  pointing to the detail. The drawing is labeled "Fig. 1 Bolt and Nut" at the top.

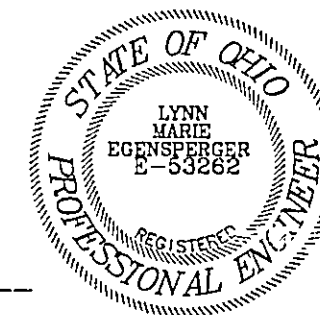
| CURVE | RADIUS  | ARC LENGTH | CHORD LENGTH | CHORD BEARING | DELTA ANGLE |
|-------|---------|------------|--------------|---------------|-------------|
| C1    | 150.00' | 239.42'    | 214.80'      | S 44°54'51" W | 91°27'07"   |
| C2    | 180.00' | 52.40'     | 52.21'       | S 07°31'39" W | 16°40'45"   |

Stormwater Management Plan  
Approved as shown and/or noted  
JAMES R. GILLS, P.E.  
County Drainage Engineer  
By L.S. Date 3/1/06

APPROVED  
Painesville Township  
Zoning Department  
2006049 D/P/ST  
2/23/06


LYNN M. EGENSERGER P.E. E-53262

1. BENCHMARK — EX. HYDRANT, TOP OF FLANGE  
ELEVATION = 630.63 IN FRONT OF S/L 46
2. SIDEWALK TO BE 4' WIDE, 4" THICK AND 6" THICK  
AT DRIVES.
3. DRIVEWAY APRON TO BE 6" THICK CONCRETE.
4. ALL DOWN SPOUTS TO BE OUTLETTED TO SPLASH  
BLOCKS.
5. CONTRACTOR RESPONSIBLE FOR CONTACTING THE OH  
UTILITY PROTECTION SERVICE 1 (800) 362-2764 AND  
ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR  
TO CONSTRUCTION.
6. THE LOCATION BOTH HORIZONTAL AND VERTICAL OF  
EXISTING UNDERGROUND UTILITIES SHOWN HEREON, HAS  
BEEN OBTAINED BY A DILIGENT AND COMPREHENSIVE  
SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD  
OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL.  
HOWEVER, OXBOW ENGINEERING, INC. DOES NOT GUARANTEE  
THE COMPLETENESS, NOR ACCURACY THEREOF.
7. CONTRACTOR SHALL VERIFY ELEVATIONS OF LATERAL  
INVERTS IN THE FIELD PRIOR TO FOUNDATION EXCAVATION.
8. EROSION AND SEDIMENT-CONTROL PRACTICES TO BE  
INSTALLED AS DESCRIBED IN THE RAIN WATER LANDSCAPE  
DEVELOPMENT MANUAL AS DIRECTED BY THE LAKE  
COUNTY SOIL AND WATER CONSERVATION DISTRICT.
9. DISTURBED AREAS OF THE SITE THAT ARE TO REMAIN  
IDLE FOR MORE THAN THIRTY (30) DAYS SHALL BE  
PROPERLY SEEDED AND STRAW MULCHED WITHIN SEVEN  
(7) DAYS OF COMPLETION OF INITIAL GRADING. TEMPORARY  
SEEDED AND MULCHING OF A THIRTY (30) FOOT STRIP  
OF THE ENTIRE FRONT OF THE LOT SHALL BE MAINTAINED  
ON THE SITE ONCE INITIAL GRADING IS COMPLETE.
10. STRAW-MULCH SHALL BE APPLIED AT A RATE OF ONE  
BALE PER EVERY TEN (10) FEET OF CURB, AT A WIDTH  
OF THIRTY (30) FEET OF THE ENTIRE LENGTH OF THE LOT.



**SITE PLAN**  
**LAKE TERRACE ESTATES NO. 3**  
**SUBLOT 33**

PAINESVILLE TOWNSHIP - LAKE COUNTY - OHIO



**orbco**  
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|            |        |  |  |  |  |  |
|------------|--------|--|--|--|--|--|
| JOB NUMBER | 04008  |  |  |  |  |  |
| DATE       | 2-7-08 |  |  |  |  |  |
| DRAWN BY   | S L S  |  |  |  |  |  |
| CHECKED BY | L C M  |  |  |  |  |  |

0
10
20
30
40

SCALE: 1"=20'

|    |          |    |      |
|----|----------|----|------|
| NO | REVISION | BY | DATE |
|    |          |    |      |
|    |          |    |      |
|    |          |    |      |
|    |          |    |      |