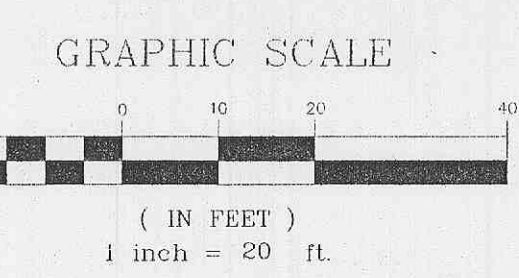


RETAINING WALL NOTES:

1. THE "RETAINING WALLS", AS SHOWN ON THE PLANS, ARE PROVIDED BY THE SITE ENGINEER ONLY TO ESTABLISH THE GENERAL LINES AND ELEVATIONS, AS WELL AS THE INTENTIONS OF THE SITE ENGINEER. THEY ARE NOT INTENDED TO REPRESENT THE FINAL INSTALLATIONS OF THE WALLS THEMSELVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE COMPLETE WALLS NECESSITATED BY THE ACTUAL GRADES OCCURRING IN THE FIELD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTUAL QUANTITIES OF MATERIALS REQUIRED TO CONSTRUCT THESE WALLS. THESE QUANTITIES WILL BE REFLECTED IN HIS BID. NOTHING EXPRESSED ON THIS SHEET SHALL BE CONSTRUED BY THE CONTRACTOR AS REPRESENTATIVE OF THE FINAL QUANTITIES REQUIRED TO ACHIEVE THE INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF MISSOURI. A COPY OF THESE DRAWINGS AND CALCULATIONS SHALL BE PROVIDED TO THE SITE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE SUCCESSFUL CONSTRUCTION OF THESE WALLS.



| | 15 YEAR/20 MINUTE EVENT | | | | | |
|---------|-------------------------|---------------|---------|------------------------|---------------|---------|
| | PRE-DEVELOPMENT | | | POST-DEVELOPMENT | | |
| | TRIBUTARY AREA (ACRES) | PI (CFS/ACRE) | Q (CFS) | TRIBUTARY AREA (ACRES) | PI (CFS/ACRE) | Q (CFS) |
| INLET | | | | | | |
| CI 102 | 0.25 | 3.85 | 0.96 | 0.24 | 3.85 | 0.92 |
| CI 128A | 0.87 | 3.85 | 3.35 | 0.99 | 3.85 | 3.81 |
| CI 119 | 0.50 | 3.85 | 1.93 | 0.43 | 3.85 | 1.66 |
| AI 100 | 0.52 | 3.85 | 2.00 | 0.40 | 3.85 | 1.54 |

NOTES:

1. THE PRE-DEVELOPMENT DRAINAGE AREAS AFFECTING THIS PROJECT (LOT 4) ARE DEPICTED ON THE DRAINAGE AREA MAP FOR WINGHAVEN CENTER, PROVIDED BY MUSLER ENGINEERING, INC., AND INCLUDED WITH THESE PLANS.
2. THE PRE-DEVELOPMENT HYDROLOGICAL CALCULATIONS, EXPRESSED IN THE MATRIX ABOVE, HAVE BEEN PERFORMED BY CRM ENGINEERING, INC., AND ARE BASED UPON THE DRAINAGE AREAS DEPICTED ON THE MUSLER ENGINEERING, INC., DRAINAGE AREA MAP.
3. THE POST-DEVELOPMENT HYDROLOGICAL CALCULATIONS, EXPRESSED IN THE MATRIX ABOVE, ARE BASED UPON THE DRAINAGE AREAS DEPICTED ON THIS SHEET. THOSE POST-DEVELOPMENT DRAINAGE AREA LIMIT LINES ARE THE RESULT OF THE PROPOSED TOPOGRAPHIC CONDITIONS, EXPRESSED ON THE GRADING PLAN FOR THIS PROJECT AS WELL AS ACTUAL EXISTING CONDITIONS IN THE VICINITY OF LOT 4, AS DETERMINED BY THE TOPOGRAPHIC SURVEY FOR THIS PROJECT, PERFORMED FOR LOT 4 BY CORNERSTONE LAND SURVEYING, INC., DATED 11 JANUARY, 2005.
4. REFER TO THE MUSLER ENGINEERING, INC., DRAINAGE AREA MAP FOR THE INLET DESIGNATIONS.

GRADING PLAN NOTES (CONTINUED):

8. ALL DISTURBED AREAS OUTSIDE OF BUILDING AREA, WHICH ARE NOT TO BE PAVED FOR VEHICULAR OR PEDESTRIAN TRAFFIC, OR AS EQUIPMENT PADS, SHALL RECEIVE HARD SURFACING, MULCH OR SEEDING, AS FOLLOWS:
 HARD SURFACING KEYED NOTES 4, 5, 6, AND 7
 MULCH KEYED NOTES 9, 10, 11 AND 29
 SEEDING KEYED NOTE 12
 THE CONTRACTOR SHALL ENSURE THAT ALL AREAS WHICH RECEIVE SEEDING SHALL HAVE THE VEGETATION FIRMLY ESTABLISHED.
9. ANY AREA DISTURBED OUTSIDE OF THE GRADING LIMITS SHALL HAVE SILTATION CONTROL.

GRADING PLAN NOTES:

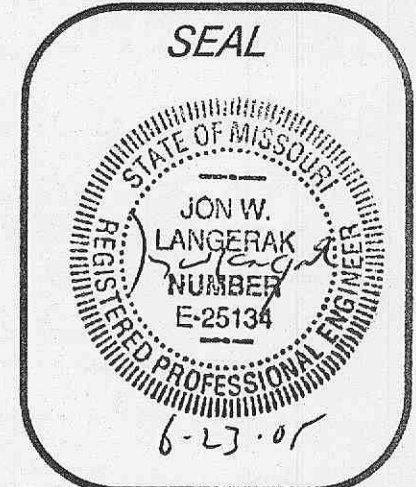
1. BENCHMARK: STANDARD DISK STAMPED "ORF 1931", SET IN A 12" SQUARE CONCRETE MONUMENT. IT IS LOCATED 0.4 MILES WEST OF THE INTERSECTION OF BRYAN ROAD AND FEISE ROAD. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE BENCHMARK POSITION. THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FROM WHAT APPEARS ON THIS PAGE AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

PLANNING AND ZONING FILE NO. 9831-37-02-01

BEFORE YOU DIG - DRILL - BLAST CALL 1-800-344-7483 (TOLL FREE) MISSOURI ONE CALL SYSTEM, INC.

| REVISION | COMMENT |
|----------|---------|
| | |
| | |

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 Web Address: www.crm-eng.com
 CIVIL ENGINEERING • PLANNING • CONSTRUCTION MANAGEMENT



ADVENTURE LEARNING CENTER DRAINAGE AREA MAP

Date: 06-09-05
 Project Number: 05-902
 MSO: PJ
 Drawn By: MLA Sheet
 Check By: MLA
 Base Map:
 ZIP: 63366