

- GRADING NOTES**
1. ALL CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT TOWN OF CARY STANDARDS, SPECIFICATIONS & DETAILS.
 2. INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING AND GRADING OPERATIONS.
 3. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
 4. STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.
 5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1 SLOPES, UNLESS NOTED OTHERWISE.
 6. ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
 7. PROPOSED SPOT ELEVATIONS ARE SHOWN AT EITHER TOP OF PAVEMENT, OR TOP OF SIDEWALK.
 8. CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.
 9. ALL EXST. STREETS AROUND THE SITE SHALL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

STORMWATER NOTES

1. THE TOTAL PROPOSED DENUEDED AREA FOR THIS SITE IS 0.26 ACRES (11,326 SF), WHICH IS LESS THAN 12,000 SF. THEREFORE, THE DESIGN FOR TOTAL NITROGEN LOADING IS NOT NEEDED.
2. THE PERCENT IMPERVIOUS FOR THE NEW PARKING AREA AND NEW SIDEWALK ON THE WEST SIDE OF THE BUILDING IS MORE THAN 12% OF THE EXISTING PERVIOUS AREA.

CALCULATIONS:
 TOTAL SITE AREA = 1.92 AC.
 EXISTING IMPERVIOUS = 0.78 AC.
 NET EXISTING PERVIOUS = 1.14 AC.
 .12 X 1.14 AC = .14 AC ALLOWABLE OF NEW IMPERVIOUS SURFACE AREA.

THE PROPOSED IMPERVIOUS SURFACE IS 0.17 AC., HENCE WE ARE PROVIDING EXISTING AND PROPOSED STORMWATER RUNOFF CONVEYENCES. SEE NARRATIVE.

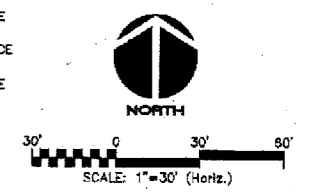
- CONSTRUCTION SEQUENCE**
1. DENUEDED AREA IS LESS THAN 12,000 SF THEREFORE TOWN OF CARY GRADING PERMIT IS NOT REQUIRED.
 2. INSTALL TEMP CONSTRUCTION ENTRANCES, SILT FENCE AND OTHER TEMPORARY MEASURES AS SHOWN ON THE PLAN. TEMPORARY MEASURES SHALL BE INSTALLED AND INSPECTED FOR COMPLIANCE PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. PROCEED WITH GRADING.
 3. MAINTAIN SILT FENCES AND OTHER MEASURES AS CONSTRUCTION PROCEEDS.
 4. SEED AND MULCH DENUEDED AREAS WITHIN 15 DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
 5. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND REMOVAL APPROVED BY OWNER.
 6. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.

- EROSION CONTROL NOTES**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
 2. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. ALL DISTURBED AREAS SHALL BE NONEROSIVE AND STABLE WITHIN FIFTEEN (15) WORKING DAYS OR 90 CALENDAR DAYS AFTER COMPLETION OF THE ACTIVITY, WHICHEVER IS SHORTER.
 3. MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
 4. MAXIMUM GRADED SLOPE SHALL NOT EXCEED THREE (3) TO ONE (1).
 5. TOTAL DISTURBED AREA IS 0.26 ACRES.
 6. SEE SHEET C-8 AND C-9 FOR EROSION CONTROL DETAILS.
 7. ALL CUT AND FILL SLOPES WILL BE STABILIZED WITHIN 15 DAYS OF ANY GRADING PHASE.

PERMANENT SWALE TABLE

SWALE	TYPE	DEPTH W/ FREEBOARD	SIDE SLOPES	MAX. SLOPE	TEMP. LINER	PERM. LINER
1	TRAPEZOIDAL	1.2	3:1	3.0%	JUTE NET	GRASS MIXTURE

- LEGEND**
- TEMPORARY CONSTRUCTION ENTRANCE
 - TEMPORARY INLET PROTECTION
 - TEMPORARY SILT FENCE
 - TREE PROTECTION FENCE
 - LIMITS OF DISTURBANCE



02-SP-047

APPROVED BY
TOWN OF CARY

DATE: 7/9/02
 DATE: 7/24/02
 DATE: 7/22/02



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**EXISTING CONTAINER GRAPHICS BUILDING
 PARKING LOT ADDITION
 MACGREGOR PARK**

**GRADING, DRAINAGE, AND
 EROSION CONTROL PLAN**

DATE: MAY 06, 2002
 WKS PROJ. # 2358-000
 DRAWN: LRA
 DESIGNED: MJM
 CHECKED: MJM
 PROJ. MGR. MJM

SCALE: HORIZONTAL: 1"=30'
 VERTICAL: NA

SHEET NUMBER: CG101
 DESIGN NUMBER: C-4

STATUS: _____