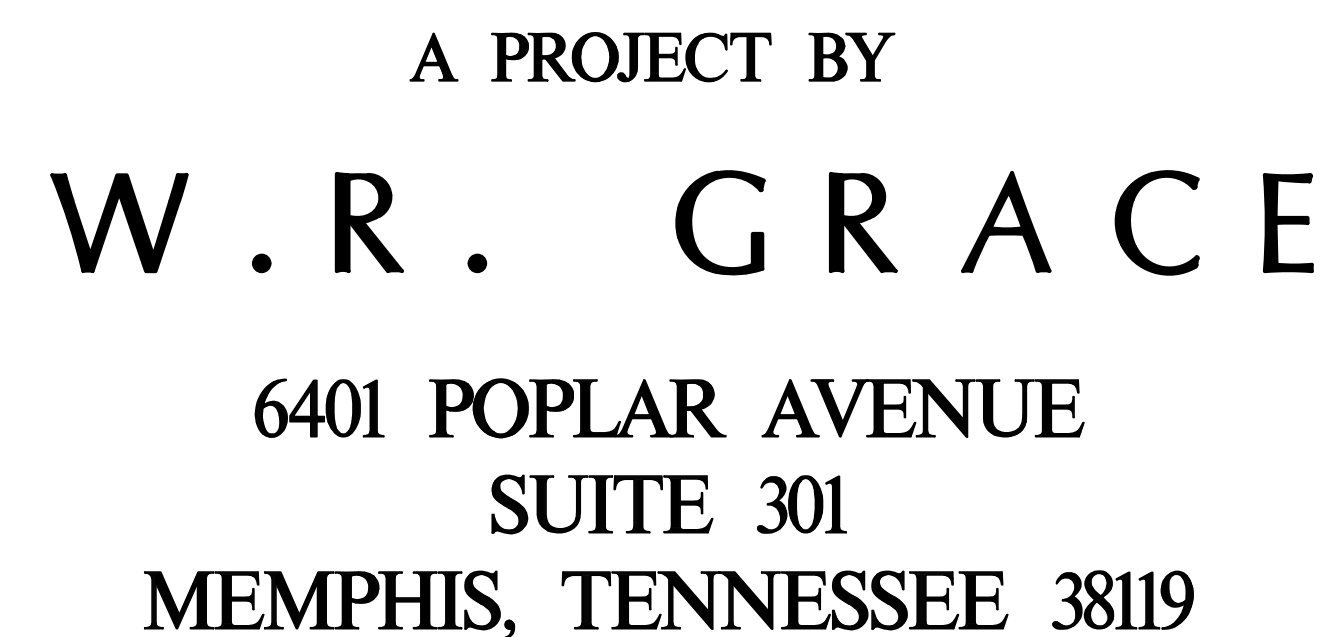
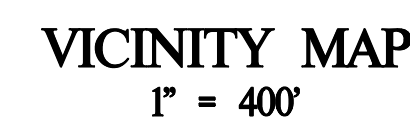


PERMIT TRACKING NUMBER(S)



TOTAL AREA 16 AC.
DISTURBED AREA 1.18 AC.

TAX PARCEL ID: 18 107 04 002

LAND LOT 107
OF THE 18TH DISTRICT
DEKALB COUNTY, GEORGIA



URS Corporation
400 Northpark Town Center
1000 Abernathy Road N.E, Suite 900
Atlanta, GA 30328
Tel: (678) 808-8800, Fax: (678) 808-8400

24 HOUR CONTACT:
BILL E. MILLER
REMEDIUM GROUP, INC.
PHONE (901) 515-6032
GASWCC CERTIFICATION NO.: XXXXXXXX

08/25/2011

REV #

ZONOLITE PLACE SITE ASBESTOS REMOVAL

1525 2691



NOT ISSUED FOR CONSTRUCTION



GRAPHIC SCALE

$$\text{inch} = 20 \text{ ft.}$$
$$1 \text{ inch} = 20 \text{ ft.}$$

3

NOT ISSUED FOR CONSTRICTION

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE CONSTRUCTION PROJECTS, PERMIT NUMBER GAR 100001

1. **TITLE NOTE:**
THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN MAY ALSO BE REFERRED TO HEREIN AS THE EROSION CONTROL PLAN. THE CHANGE WILL NOT AFFECT THE PLAN'S COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION, SEDIMENTATION, AND POLLUTION PREVENTION CONTROL PLAN CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.
2. **REFERENCE NOTE:**
ALL SECTION HEADINGS AND CITATIONS REFERENCE THE GENERAL NPDES PERMIT NUMBER GAR 100001 DATED AUGUST 1, 2008.
3. **COMPLIANCE NOTE:**
THESE PLANS ARE PROVIDED AS A GUIDE TO ASSIST THE PERMITTEES IN THEIR COMPLIANCE WITH THE GENERAL NPDES PERMIT NUMBER GAR 100001. SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THIS DOCUMENT AND THE PERMIT, THE LANGUAGE AND REQUIREMENTS CONTAINED IN THE PERMIT SHALL GOVERN.

NOTICE OF INTENT [II]

1. **RESPONSIBLE PARTIES:** [II.B]
A. PRIMARY PERMITTEE [II.B.1]:
THE OWNER (THE LEGAL OWNER OF THE FACILITY OR SITE WHERE THE CONSTRUCTION ACTIVITY WILL TAKE PLACE), THE OPERATOR (THE ENTITY THAT HAS PRIMARY DAY-TO-DAY OPERATIONAL CONTROL OF THOSE ACTIVITIES AT THE FACILITY OR SITE NECESSARY TO ENSURE COMPLIANCE WITH PERMIT CONDITIONS), OR BOTH OF A TRACT OF LAND FOR A STAND ALONE CONSTRUCTION PROJECT.
- B. SECONDARY PERMITTEE:
AN INDIVIDUAL BUILDER, UTILITY CONTRACTOR, OR SIMILAR ENTITY THAT CONDUCTS A CONSTRUCTION ACTIVITY WITHIN A COMMON DEVELOPMENT.
- C. TERTIARY PERMITTEE:
BOTH THE OWNER AND OPERATOR OF A REMAINING LOT WITHIN A SURFACE WATER DRAINAGE AREA OF A COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS SUBMITTED A NOTICE OF TERMINATION.
2. **DEADLINES FOR NOTIFICATION:** [II.A]
A. THE NOTICE OF INTENT SHALL BE SUBMITTED AT LEAST FOURTEEN (14) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. [II.A.1]

B. WHERE AN OWNER OR AN OPERATOR OR BOTH CHANGES AFTER A NOTICE OF INTENT HAS BEEN FILED, THE SUBSEQUENT OWNER, OPERATOR, OR BOTH MUST FILE A NEW NOTICE OF INTENT AT LEAST SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY OR SITE OR THIRTY (30) DAYS FROM ACQUIRING LEGAL TITLE TO THE FACILITY OR SITE. [II.A.4]

C. THE PRIMARY PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SECONDARY AND TERTIARY PERMITTEES COMPLETE AND SUBMIT ALL APPROPRIATE NOTICES OF INTENT.
- D. NOTICES OF INTENT MAY BE SUBMITTED FOR SEPARATE PHASES OF PROJECTS WITH A TOTAL PLANNED DISTURBANCE GREATER THAN 5.0 ACRES, PROVIDED THAT EACH PHASE SHALL NOT BE LESS THAN 1.0 ACRE. [II.B.x]

E. ALL NOTICES OF INTENT ARE TO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. A COPY OF THE PROOF OF SUBMITTAL SHALL BE KEPT ON SITE AND READILY AVAILABLE. [II.C]
3. **NOTICE OF INTENT CONTENTS:** [II.B]
THE NOTICE OF INTENT SHALL INCLUDE THE FOLLOWING (REFER TO SECTION II.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
* THE SITE/PROJECT NAME
* THE OWNER'S AND OPERATOR'S (WHEN APPLICABLE) CONTACT INFORMATION
* CONTACT INFORMATION FOR THE INDIVIDUAL WITH DAILY OPERATIONAL CONTROL
* THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
* AN ESTIMATED ACTIVITY SCHEDULE FOR THE PROJECT
* DESIGN COMPLIANCE CERTIFICATION
* THE TYPE OF CONSTRUCTION ACTIVITY CATEGORY (LISTED ON NOTICE OF INTENT FORM)
* ALL MONITORING LOCATIONS
* FOR STAND ALONE CONSTRUCTION DISTURBING MORE THAN FIFTY (50) ACRES
* INCLUDE A SINGLE COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
* ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL
* THE NAME OF THE RECEIVING WATER(S) LOCATED WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USES.

SPECIAL CONDITIONS [III.A, III.B]

1. **PROHIBITION ON NON-STORM WATER DISCHARGES:** [III.A.1, III.A.2]
A. EXCEPT AS NOTED BELOW (B.), ALL COVERED DISCHARGES SHALL BE COMPOSED ENTIRELY OF STORM WATER.
- B. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED PROVIDED THAT THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7 OF THE PERMIT.
* DISCHARGES FROM FIRE FIGHTING ACTIVITIES
* FIRE HYDRANT FLUSHING
* POTABLE WATER SOURCES WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS INCLUDING:
+ WATER LINE FLUSHING
+ IRRIGATION DRAINAGE
+ AIR CONDITIONING CONDENSATE
+ SPRINGS
+ UNCONTAMINATED GROUNDWATER
+ FOUNDATION OR FOOTING DRAINS
- C. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED. [III.B.1, III.B.2]

D. THE DISCHARGE OF SANITARY SEWER WASTE IN THE STORM WATER DISCHARGE(S) FROM A SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED.

SPECIAL CONDITIONS [III.C]

1. **DISCHARGES INTO, OR WITHIN ONE MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT:** [III.C.1, III.C.2]

A. FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S), MUST SATISFY THE REQUIREMENTS OF PART III.C. OF THIS PERMIT IF THE IMPAIRED STREAM SEGMENT HAS BEEN LISTED FOR CRITERIA VIOLATED, "BIO F" (IMPAIRED FISH COMMUNITY) AND/OR "BIO M" (IMPAIRED MACROINVERTEBRATE COMMUNITY), WITHIN CATEGORY 4A, 4B OR 5, AND THE POTENTIAL CAUSE IS EITHER "NP" (NONPOINT SOURCE) OR "UR" (URBAN RUNOFF).
- B. IN ORDER TO ENSURE THAT THE PERMITTEE'S DISCHARGE(S) DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE WATER QUALITY STANDARDS, THE PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE BEST MANAGEMENT PRACTICES (BMPs) LISTED IN [III.C.2] FOR THOSE AREAS OF THE SITE WHICH DISCHARGE INTO OR WITHIN ONE (1) LINEAR MILE UPSTREAM AND WITHIN THE SAME WATERSHED AS THE IMPAIRED STREAM SEGMENT.

MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D]

1. **BEST MANAGEMENT PRACTICES:** [III.D.1]

A. BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
- B. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NON-COMPLIANCE WITH PART III.D.3 AND PART III.D.4 OF THE PERMIT. THIS DOES NOT PROTECT THE PERMITTEE FROM POTENTIAL LAWSUITS FILED BY DOWNSTREAM PROPERTY OWNERS.
2. **PERMIT VIOLATIONS:** [III.D.2, III.D.3, III.D.4]
A. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THE PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS.
- B. IF DURING THE COURSE OF THE PERMITTEES ROUTINE INSPECTION BEST MANAGEMENT PRACTICE FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO THE ENVIRONMENTAL PROTECTION DIVISION IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.
- C. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH THE DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED ABOVE THE LEVELS SPECIFIED IN THE PERMIT.
- D. WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH THE DISCHARGE RESULTS IN THE TURBIDITY OF THE DISCHARGE WATERS EXCEEDING THE VALUE SELECTED FROM APPENDIX B. THIS VALUE IS INDICATED ON THIS PLAN WHEN MONITORING IS SELECTED.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV]

1. **GENERAL NOTES:**
A. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A TWENTY-FIVE FOOT (25') BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED FROM HORIZONTALLY THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(i) OF THE PERMIT. [IV.(i)]

B. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A FIFTY-FOOT (50') BUFFER ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS," AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(ii) OF THE PERMIT. [IV.(ii)]

C. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. BETWEEN THE TIME FINAL STABILIZATION OF THE SITE IS ACHIEVED AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. [IV.(iii)]

D. IT IS THE RESPONSIBILITY OF THE PRIMARY PERMITTEE TO KEEP PLANS CURRENT.
- E. PLANS SUBMITTED AFTER THE EFFECTIVE DATE OF THIS PERMIT SHALL LIMIT THE AMOUNT OF DISTURBED AREA TO NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE APPROPRIATE EPD DISTRICT OFFICES. [IV.D.3]
2. **SITE DESCRIPTION:** [IV.D.2]
REFER TO CHART ON THE SHEET C505 FOR INFORMATION.
3. **CONTROLS:** [IV.D.3]
A. THE NPDES GENERAL PERMIT NUMBER GAR 100001 CONTAINS THE FOLLOWING DEFINITIONS:
* EROSION – THE PROCESS BY WHICH LAND SURFACE IS WORN AWAY BY THE ACTION OF WIND, WATER, ICE, OR GRAVITY.
* SEDIMENT – THE SOLID MATERIAL, BOTH ORGANIC & INORGANIC, THAT IS BEING TRANSPORTED IN SUSPENSION OR HAS BEEN MOVED VIA WIND, WATER, ICE, OR GRAVITY.
* SEDIMENTATION – THE ACTION OR PROCESS OF FORMING OR DEPOSITING THE SEDIMENT THAT IS ERODED.
- B. THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN OFFERS GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL INCLUDING STABILIZING MEASURES, STRUCTURAL MEASURES, AND SEDIMENT BASINS. ALL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.
- * STABILIZING MEASURES: [IV.D.3.a.(1)]
STABILIZING MEASURES ARE INTENDED TO REDUCE EROSION AND SEDIMENT DAMAGE TO DOWNSTREAM PROPERTIES AND SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THEY INCLUDE, BUT ARE NOT LIMITED TO:
+ DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDING, OR PERMANENT VEGETATION
+ DUST CONTROL
+ EROSION CONTROL MATTING AND BLANKETING
+ TACKIFIERS AND BINDERS

STABILIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF THE STABILIZING MEASURES LISTED ABOVE OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

- * STRUCTURAL PRACTICES: [IV.D.3.a.(2)]
STRUCTURAL PRACTICES ARE INTENDED TO REDUCE EROSION AND SEDIMENT ESCAPE FROM THE SITE OF CONSTRUCTION ACTIVITY AND SHALL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH (AS PRACTICABLE OR GOVERNED BY THE LOCAL ISSUING AUTHORITY) CONSTRUCTION ACTIVITIES. THESE PRACTICES SHALL INCLUDE, BUT ARE NOT LIMITED TO:
+ SILT FENCING: TYPES A, B, AND C AS WARRANTED BY FLOW VELOCITIES, PROJECT LENGTH, AND/OR LOCAL ISSUING AUTHORITY
+ CONSTRUCTION EXITS
+ CHECK DAMS: STONE OR HAY BALE DEPENDING UPON FLOW RATES AND DRAINAGE AREAS
+ DOWN DRAINS: TEMPORARY OR PERMANENT
+ RETAINING WALLS: CAST-IN-PLACE CONCRETE OR MODULAR BLOCK
+ RETROFITTING: HALF-ROUND PIPE OR SLOTTED BOARD DAM WITH STONE
+ INLET SEDIMENT TRAPS: TYPES USED WILL VARY DEPENDING UPON FLOW RATES, DRAINAGE AREAS, AND DRAINAGE SLOPES
+ STORM DRAIN OUTLET PROTECTION: RIP-RAP APRON SPECIFICATIONS WILL VARY DEPENDING UPON OVERALL DRAINAGE PARAMETERS
+ SURFACE ROUGHENING: SPECIFIC PRACTICE AND METHOD PROSCRIBED WILL DEPEND UPON TYPE AND RATE OF SLOPE.

THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE USED TO ACCOMPLISH EROSION AND SEDIMENTATION PROTECTION OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

- * SEDIMENT BASINS: [IV.D.3.a.(3)]
SEDIMENT BASINS REDUCE THE ESCAPE OF SEDIMENT FROM THE SITE BY TRAPPING IT IN AN EXCAVATED AREA OR BEHIND A SINGLE OR SERIES OF STRUCTURAL PRACTICES WHILE STILL ALLOWING RUNOFF TO LEAVE THE SITE. THESE BASINS ARE EITHER TEMPORARY OR PERMANENT IN NATURE AND MUST COMBINE TO PROVIDE 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL THE FINAL STABILIZATION HAS BEEN ACHIEVED ON THE SITE OF CONSTRUCTION ACTIVITIES.

SEDIMENT STORAGE MUST BE PROVIDED THROUGH THE USE OF TEMPORARY SEDIMENT BASINS AND EQUIVALENT CONTROL MEASURES OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

- * SPILL CONTAINMENT: [IV.D.3.c.(1)] [IV.D.3.c.(4)]
SECONDARY CONTAINMENT MUST BE PROVIDED FOR ALL PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS THAT ARE STORED ON-SITE. THESE PRODUCTS AND MATERIALS MUST BE STORED IN A WEATHER RESISTANT ENCLOSURE TO PREVENT THEIR EXPOSURE TO PRECIPITATION (STORM WATER RUNOFF).

SECONDARY CONTAINMENT MUST BE PROVIDED FOR ALL PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS USED BUT NOT STORED ON-SITE.

SECONDARY CONTAINMENT MUST BE PROVIDED DURING ANY OPERATIONS WHERE THERE IS THE POTENTIAL FOR A PETROLEUM PRODUCT OR HAZARDOUS MATERIAL SPILL (I.E. FUELING).

SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS MUST BE PROVIDED.

THE CONTRACTOR SHALL KEEP A FULLY STOCKED SPILL CLEAN-UP KIT ON-SITE AT ALL TIMES. THIS KIT MUST BE REPLENISHED OR REPLACED USED AND SHOULD BE INSPECTED WEEKLY TO INSURE THAT ALL CONTENTS ARE PRESENT AND IN WORKING ORDER.

ALL MATERIALS STORED ON SITE MUST BE LABELED WITH THE PROPER HAZARDOUS CLASSIFICATION PLACARD AND THEIR MATERIAL SAFETY DATA SHEETS MUST BE ON-SITE AT ALL TIMES AND AVAILABLE UPON REQUEST.

- * CONCRETE WASHOUT: [IV.D.3.e.(5)]
THE CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT AREA SUCH THAT THE RINSE WATER CAN BE DIVERTED AWAY FROM STORM DRAIN INLETS, STORM WATER CONVEYANCES, OR BODIES OF WATER. ALL RUNOFF FROM THIS AREA MUST EITHER BE TREATED OR FILTERED PRIOR TO ITS RELEASE.

- C. STORM WATER MANAGEMENT WILL BE PROVIDED BY A WATER QUALITY DEVICE(S). POTENTIAL WATER QUALITY DEVICES THAT COULD BE USED INCLUDE DETENTION PONDS, RETENTION PONDS, OPEN VEGETATIVE SWALES, PROPRIETARY DEVICES, OR A SEQUENTIAL SYSTEM OF THESE ITEMS. [IV.D.3.b]

- D. WASTE DISPOSAL:
SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE. PRACTICES SUCH AS TRASH DISPOSAL, RECYCLING, PROPER MATERIAL HANDLING, AND SPILL PREVENTION AND CLEANUP MEASURES CAN REDUCE THE POTENTIAL FOR STORM WATER POLLUTION. THE PROPER MANAGEMENT AND DISPOSAL OF WASTES SHALL BE PRACTICED ON THE SITE(S) OF CONSTRUCTION ACTIVITIES. AT A MINIMUM THE FOLLOWING STEPS SHOULD BE TAKEN TO ENSURE PROPER WASTE DISPOSAL:
* CONSULT LOCAL AUTHORITIES FOR HAZARDOUS MATERIAL AND SOLID WASTE DISPOSAL REQUIREMENTS
* EMPTY AND CLEAN HAZARDOUS WASTE CONTAINERS BEFORE DISPOSING THEM ACCORDING TO MANUFACTURER'S GUIDELINES
* DO NOT REMOVE THE ORIGINAL PRODUCT LABELS FROM HAZARDOUS MATERIAL CONTAINERS
* DO NOT MIX MATERIALS PRIOR TO DISPOSAL UNLESS RECOMMENDED BY THE MANUFACTURER
* CLEAN UP SPILLS IMMEDIATELY USING AN ABSORBENT MATERIAL SUCH AS SAWDUST OR GRANULAR ABSORBENT CLAY TO CONTAIN THE SPILL; FOR HAZARDOUS MATERIALS, FOLLOW CLEANUP INSTRUCTIONS ON THE PACKAGE
* PROVIDE EXTRA CONTAINERS AND INCREASE PICKUP FREQUENCY DURING DEMOLITION
* COLLECT, REMOVE, AND DISPOSE OF ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL SITES. ONSITE BURIAL OF MATERIALS IS PROHIBITED.
* DESIGNATE A BUILDING MATERIAL AND/OR WASTE COLLECTION AREA ONSITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO A BODY OF WATER.
* ENSURE THAT ALL CONTAINERS HAVE LIDS AND ARE PLACED IN A COVERED AREA WHENEVER POSSIBLE. IF MATERIALS DO NOT HAVE LIDS, COVER CONTAINERS OR MATERIALS WITH TARPS OR PLACE THEM UNDER COVERED AREAS.
* SURROUND DESIGNATED MATERIAL STORAGE AREAS WITH SILT FENCE OR OTHER BEST MANAGEMENT PRACTICES TO ELIMINATE STORM WATER DISCHARGE DIRECTLY INTO THE STORM SEWER SYSTEM.
* SCHEDULE WASTE COLLECTION TO PREVENT THE CONTAINERS FROM OVERTILLING

4. **INSPECTIONS:** [IV.D.4]
A. ALL PRIMARY PERMITTEES ARE REQUIRED TO PROVIDE FOR THE PERFORMANCE OF INSPECTIONS BY CERTIFIED PERSONNEL, AS DEFINED BY THE PERMIT, AS DESCRIBED BELOW:

- * INITIAL [IV.A.5]: THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BEST MANAGEMENT PRACTICES) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL:
+ DETERMINE IF THE BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED AS DESIGNED.
+ DETERMINE IF THE BEST MANAGEMENT PRACTICES ARE BEING MAINTAINED AS DESIGNED.
+ REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS.
- THE PRIMARY PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT UNLESS WEATHER RELATED SITE CONDITIONS REQUIRE ADDITIONAL TIME.

- * DAILY [IV.D.3.a.(1)]: FOR EACH DAY OF ANY TYPE OF CONSTRUCTION ACTIVITY AT THE PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL:
+ INSPECT ALL AREAS ON THE SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT
+ INSPECT ALL POINTS OF VEHICULAR ENTRY TO THE PRIMARY PERMITTEE'S SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING
+ MEASURE RAINFALL ONCE EVERY TWENTY-FOUR (24) HOUR PERIOD AT THE SITE

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- * WEEKLY [IV.D.4.a.(2)]: AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL:
+ INSPECT ALL DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION
+ INSPECT ALL AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION
+ INSPECT ALL STRUCTURAL CONTROL MEASURES
+ OBSERVE ALL EROSION AND SEDIMENT CONTROL MEASURES APPLICABLE TO THE PRIMARY PERMITTEE'S SITE TO ENSURE THAT THEY ARE OPERATING CORRECTLY
+ INSPECT ALL ACCESSIBLE DISCHARGE POINTS OR LOCATIONS TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

- * POST-RAINFALL [IV.D.4.a.(2)]: WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL:
+ INSPECT ALL DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION
+ INSPECT ALL AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION
+ INSPECT ALL STRUCTURAL CONTROL MEASURES
+ OBSERVE ALL EROSION AND SEDIMENT CONTROL MEASURES APPLICABLE TO THE PRIMARY PERMITTEE'S SITE TO ENSURE THAT THEY ARE OPERATING CORRECTLY
+ INSPECT ALL ACCESSIBLE DISCHARGE POINTS OR LOCATIONS TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED

- * MONTHLY [IV.D.4.a.(3)]: AT LEAST ONCE PER MONTH, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT THE AREAS OF THE CONSTRUCTION SITE THAT HAVE UNDERGONE FINAL STABILIZATION FOR:
+ EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S)
+ CORRECT OPERATION OF EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN
+ EFFECTIVE PREVENTION OF SIGNIFICANT IMPACTS ON RECEIVING WATERS BY EROSION CONTROL MEASURES PLACED AT ACCESSIBLE DISCHARGE LOCATIONS OR POINTS

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

- B. UPDATE THE SITE DESCRIPTION, POLLUTION PREVENTION, AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AS REQUIRED BY THE RESULTS OF EACH INSPECTION NO LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- C. ANY CHANGES TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AS A RESULT OF AN INSPECTION, SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE, BUT NO LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION REQUIRING THE CHANGE.
- D. A REPORT OF EACH INSPECTION SHALL BE MADE AND RETAINED AT THE SITE UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED. THIS REPORT SHALL INCLUDE:

- * A SUMMARY OF THE SCOPE OF THE INSPECTION
- * THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION
- * THE DATE OF THE INSPECTION
- * MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
- * ANY ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.3.a.(4) OF THE PERMIT (CORRECTIVE MAINTENANCE)
- * ANY INCIDENTS OF NONCOMPLIANCE
- * COMPLIANCE CERTIFICATION

5. **MAINTENANCE:** [IV.D.5]
A. ALL BEST MANAGEMENT PRACTICES SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL BE MAINTAINED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

- B. ALL DAMAGE DISCOVERED DURING THE REQUIRED INSPECTIONS SHALL BE PROPERLY REPAIRED AND STRUCTURAL BEST MANAGEMENT PRACTICES SHALL BE CLEANED OUT AS FOLLOWS:
* CHECK DAMS – REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE CHECK DAM
* CONSTRUCTION EXITS – PERIODIC REDRESSING WITH STONE MAY BE REQUIRED
* RETROFITTINGS – REMOVE ALL TRASH AND DEBRIS AND REMOVE SEDIMENT WHEN THE SEDIMENT HAS REACHED A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE RETROFIT.
* SILT FENCING – SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE SILT FENCE.
* INLET SEDIMENT TRAPS – SEDIMENT SHALL BE REMOVED WHEN THE TRAP IS ONE-HALF FULL OR HAS REACHED ONE-THIRD OF ITS STORAGE CAPACITY
* SEDIMENT BASINS – SEDIMENT SHALL BE REMOVED AS SPECIFIED BY EACH BASIN DESIGN

6. **SAMPLING:** [IV.D.6]
PLEASE REFER TO SAMPLING PLAN OR EROSION CONTROL PLANS FOR SAMPLING INFORMATION INCLUDING GUIDELINES, PROCEDURES, AND LOCATION(S).

7. **NON-STORM WATER DISCHARGES:** [IV.D.7]
EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, ANY SOURCES OF NON-STORM WATER LISTED IN PART III.A.2 OF THE PERMIT THAT ARE CORRELATED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY ARE IDENTIFIED IN THE PLAN AND HAVE APPROPRIATE POLLUTION PREVENTION MEASURES.

REPORTING [IV.E]

1. **MONITORING, RECORD SUBMISSION AND RETENTION:**
A. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE ENVIRONMENTAL PROTECTION DIVISION AT THE ADDRESS SHOWN IN PART II.C OF THE PERMIT BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD WHEN A QUALIFYING EVENT HAS OCCURRED. [IV.E.1]

B. UPON WRITTEN NOTIFICATION THE ENVIRONMENTAL PROTECTION DIVISION MAY REQUIRE THE PERMITTEE TO SUBMIT SAMPLING RESULTS ON A MORE FREQUENT BASIS. [IV.E.1]

- C. EACH PERMITTEE MUST RETAIN COPIES OF ALL MONITORING RESULTS REPORTED BY THAT PERMITTEE. THE MONITORING INFORMATION SHALL INCLUDE [IV.E.3]:
* THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS
* THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS
* THE DATE(S) ANALYSES WERE PERFORMED
* THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES
* REFERENCES AND WRITTEN PROCEDURES, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED
* THE RESULTS OF SUCH ANALYSES, INCLUDING THE SHEETS, DISKS, ETC. USED TO DETERMINE THE RESULTS
* NOTE: RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"
- D. EACH PRIMARY PERMITTEE SHALL RETAIN A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AT THE CONSTRUCTION SITE. [IV.F.1]
- E. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS, AND ALL OTHER RECORDS REQUIRED BY THE NPDES GENERAL PERMIT NUMBER GAR 100001 SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT, FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. [IV.F.2]

REPORTING SUBMITTAL [IV.E.2]

ALL WRITTEN CORRESPONDENCE SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT.

STANDARD PERMIT CONDITIONS [V]

1. **DUTY TO COMPLY:** [V.A]
A. EACH PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE NPDES PERMIT. ANY PERMIT NON-COMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. [V.A.1]

B. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THE PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THE PERMIT. [V.A.1]
- C. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT THEIR SITE WITHIN SEVEN (7) DAYS OF THEIR KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C WITHIN FOURTEEN (14) DAYS OF DISCOVERING THE VIOLATION. [V.A.2]
- D. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THE PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THE PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NON-COMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BOTH. VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AS DESCRIBED IN THE PERMIT. [V.A.3]
2. **NEED TO HALT OR REDUCE ACTIVITY-NOT-A-DEFENSE:** [V.C]
IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.
3. **DUTY TO MITIGATE:** [V.D]
THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.
4. **DUTY TO PROVIDE INFORMATION:** [V.E]
THE PERMITTEE SHALL UPON REQUEST FURNISH ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT.
5. **OTHER INFORMATION:** [V.F]
WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.
6. **SIGNATORY REQUIREMENTS:** [V.G]
ALL NOTICES OF INTENT, NOTICES OF TERMINATION, EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS, OR OTHER INFORMATION EITHER SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES SHALL BE MAINTAINED BY THE PERMITTEE AND SIGNED AS DESCRIBED BY SECTION V.G OF THE PERMIT.
7. **OIL AND HAZARDOUS SUBSTANCE LIABILITY:** [V.H]
THE PERMIT NEITHER PRECLUDES THE INSTITUTION OF ANY LEGAL ACTION NOR PROTECTS THE PRIMARY PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, THE OFFICIAL CODE OF GEORGIA, THE CLEAN WATER ACT, OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

DESIGN PROFESSIONAL'S CERTIFICATIONS

1. DESIGN CERTIFICATION:

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

DATE DESIGN PROFESSIONAL'S SIGNATURE & GSWCC CERTIFICATION NO.

2. SITE VISIT CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

DATE DESIGN PROFESSIONAL'S SIGNATURE & GSWCC CERTIFICATION NO.

CONTRACTING PARTY CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

DATE SIGNATURE

REVISIONS	
NO.	DATE
DATE: 08/26/2011	

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ZONOLITE PLACE SITE
ASBESTOS REMOVAL
PREPARED FOR
W.R. GRACE

6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

EROSION CONTROL - NPDES PERMIT NOTES

URS Corporation
400 Northbank Town Center
1000 Northbank Blvd., Suite 900
Atlanta, Georgia 30328
Tel: (678) 808-8800, Fax: (678) 808-9400



DESIGNED BY	MBG
CHECKED BY	JAL
PROJECT NO.	1526 2691

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STANDARD PERMIT CONDITIONS [V] (CONTINUED)

8. PROPER OPERATION AND MAINTENANCE: [v.1]
THE PERMITEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT AND WITH THE REQUIRED PLANS.
9. INSPECTION AND ENTRY: [v.m]
THE PERMITEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF THE ENVIRONMENTAL PROTECTION AGENCY, THE ENVIRONMENTAL PROTECTION DIVISION, OR TO DESIGNATED OFFICIALS OF THE LOCAL ISSUING AUTHORITY REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:
* ENTER UPON THE PERMITEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
* HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
* INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).
10. PERMIT ACTIONS: [v.n]
THE PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS, THE FILING OF A REQUEST BY THE PERMITEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

TERMINATION OF COVERAGE [VI]

1. NOTICE OF TERMINATION:
A. NOTICE OF TERMINATION MUST BE SUBMITTED BY THE PERMITEE WHERE THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [v.i.a.1]
B. FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITEE HAS ELECTED TO SUBMIT NOTICES OF INTENT FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOTICE OF TERMINATION SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOTICE OF INTENT AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [v.i.a.1]
C. WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES A NOTICE OF TERMINATION MUST BE SUBMITTED. WHERE STORM WATER DISCHARGES WILL CONTINUE AFTER THE CHANGE, THE PERMITEE MUST, PRIOR TO FILING THE NOTICE OF TERMINATION, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THE PERMIT. [v.i.a.2]
2. NOTICE OF TERMINATION CONTENTS:
THE NOTICE OF TERMINATION SHALL INCLUDE THE FOLLOWING (REFER TO SECTION VI.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):
* THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
* THE SITE/PROJECT NAME
* THE NPDES PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION.
* THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
* ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL
* TERMINATION CERTIFICATION
3. NOTICE OF TERMINATION SUBMITTAL:
ALL NOTICES OF TERMINATION ARE TO BE SUBMITTED RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. [v.i.c]






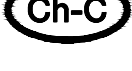

































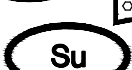




EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
GENERAL NOTES

1. COMPREHENSIVE:
A. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND ALL APPLICABLE CODES OF THE LOCAL ISSUING AUTHORITY GOVERNING EROSION SEDIMENTATION CONTROL. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND ALL APPLICABLE CODES OF THE LOCAL ISSUING AUTHORITY.
- D. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- F. THE CONSTRUCTION OF THE SITE MAY COMMENCE AFTER THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETE.
- J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.
- K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 – TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND ALL APPLICABLE CODES OF THE LOCAL ISSUING AUTHORITY.
- L. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- M. AMENDMENTS AND/OR REVISIONS TO THE ES&P PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE ENGINEER.

2. DURING CONSTRUCTION:
A. ON SITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES OF THE LOCAL ISSUING AUTHORITY.
- B. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT HAS ACCUMULATED TO ONE-HALF (1/2) OF THE HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
- C. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.
- D. DISTURBED AREAS LEFT IDLE FOR TWO WEEKS AND NOT TO FINAL GRADE WILL BE ESTABLISHED WITH TEMPORARY VEGETATION (Ds2). DISTURBED AREAS LEFT IDLE FOR FOUR WEEKS OR MORE WILL BE ESTABLISHED WITH PERMANENT VEGETATION (Ds3). ALL AREAS TO FINAL GRADE ESTABLISHED WITH PERMANENT VEGETATION WITHIN TWO WEEKS.
- E. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER MAY BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS DESCRIBED IN THE PERMIT. THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100001, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.




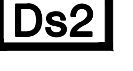
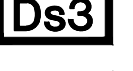
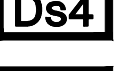





EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

STRUCTURAL METHODS SYMBOL LEGEND

	SEDIMENT BASIN BAFFLE
	STONE CHECK DAM
	HAYBALE CHECK DAM
	CHANNEL STABILIZATION: VEGETATED LINING
	CHANNEL STABILIZATION: ROCK RIPRAP LINING
	CHANNEL STABILIZATION: CONCRETE LINING
	CONSTRUCTION EXIT
	CONSTRUCTION ROAD STABILIZATION
	STREAM DIVERSION CHANNEL: GEOTEXTILE, POLYETHYLENE FILM, OR SOD
	STREAM DIVERSION CHANNEL: GEOTEXTILE ALONE
	STREAM DIVERSION CHANNEL: CLASS 1 RIP-RAP AND GEOTEXTILE
	DIVERSION
	TEMPORARY DOWNDRAIN STRUCTURE
	PERMANENT DOWNDRAIN STRUCTURE
	FILTER RING
	GABION
	GRADE STABILIZATION STRUCTURE
	LEVEL SPREADER
	ROCK FILTER DAM
	RETAINING WALL
	RETROFITTING: HALF-ROUND PIPE WITH STONE FILTER
	RETROFITTING: BOARD DAM WITH STONE
	TYPE A SILT FENCE
	TYPE B SILT FENCE
	TYPE C SILT FENCE
	SANDBAGS
	HAY OR STRAW BALES
	BRUSH BARRIER
	INLET SEDIMENT TRAP
	INLET SEDIMENT TRAP: FILTER FABRIC WITH SUPPORTING FRAME
	INLET SEDIMENT TRAP: BAFFLE BOX
	INLET SEDIMENT TRAP: BLOCK AND GRAVEL DROP INLET PROTECTION
	INLET SEDIMENT TRAP: GRAVEL DROP INLET PROTECTION
	INLET SEDIMENT TRAP: SOD INLET PROTECTION
	INLET SEDIMENT TRAP: CURB INLET PROTECTION
	INLET SEDIMENT TRAP: SILT SAVER
	INLET SEDIMENT TRAP: ROCK BAG
	TEMPORARY SEDIMENT BASIN
	TEMPORARY STREAM CROSSING: BRIDGE CROSSING
	TEMPORARY STREAM CROSSING: CULVERT CROSSING
	STORM DRAIN OUTLET PROTECTION
	SURFACE ROUGHENING
	TOPSOILING
	VEGETATED WATERWAY OR STORM WATER CONVEYANCE CHANNEL

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

VEGETATIVE METHODS SYMBOL LEGEND

	BUFFER ZONE
	COASTAL DUNE STABILIZATION
	DISTURBED AREA STABILIZATION: (WITH MULCHING ONLY)
	DISTURBED AREA STABILIZATION: (WITH TEMPORARY SEEDING)
	DISTURBED AREA STABILIZATION: (WITH PERMANENT VEGETATION)
	DISTURBED AREA STABILIZATION: (WITH SODDING)
	DUST CONTROL ON DISTURBED AREAS
	MATTING AND BLANKETS
	POLYACRYLAMIDE (PAM)
	STREAMBANK STABILIZATION: (USING PERMANENT VEGETATION)
	TACKIFIERS AND BINDERS

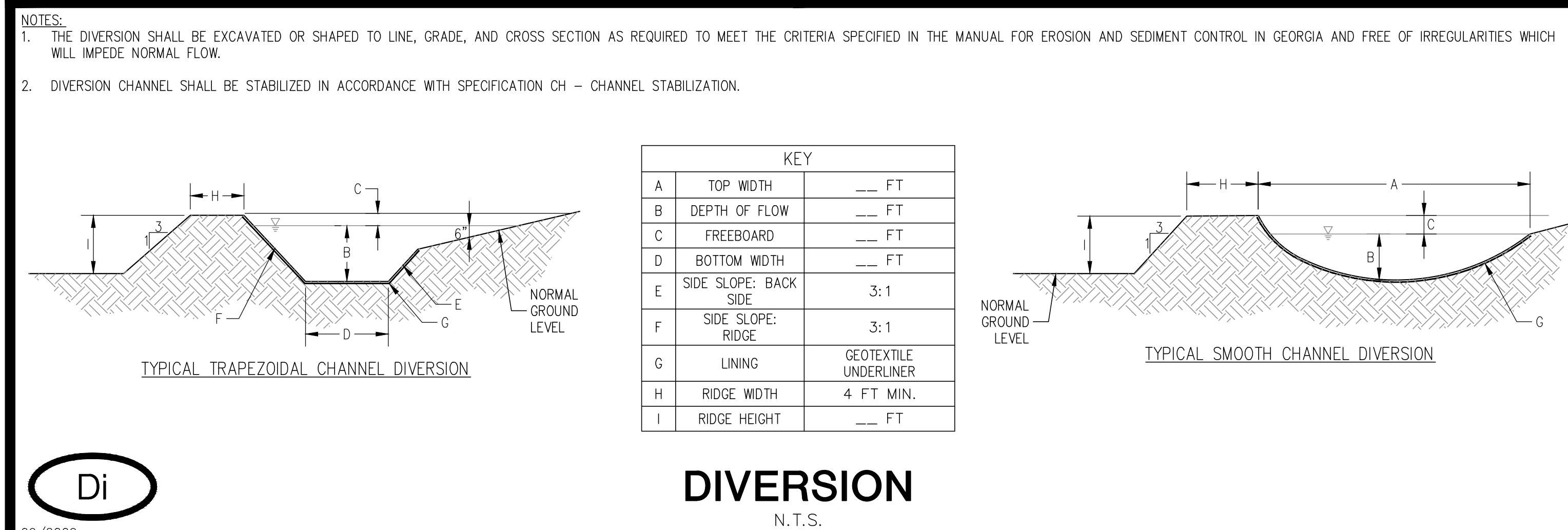
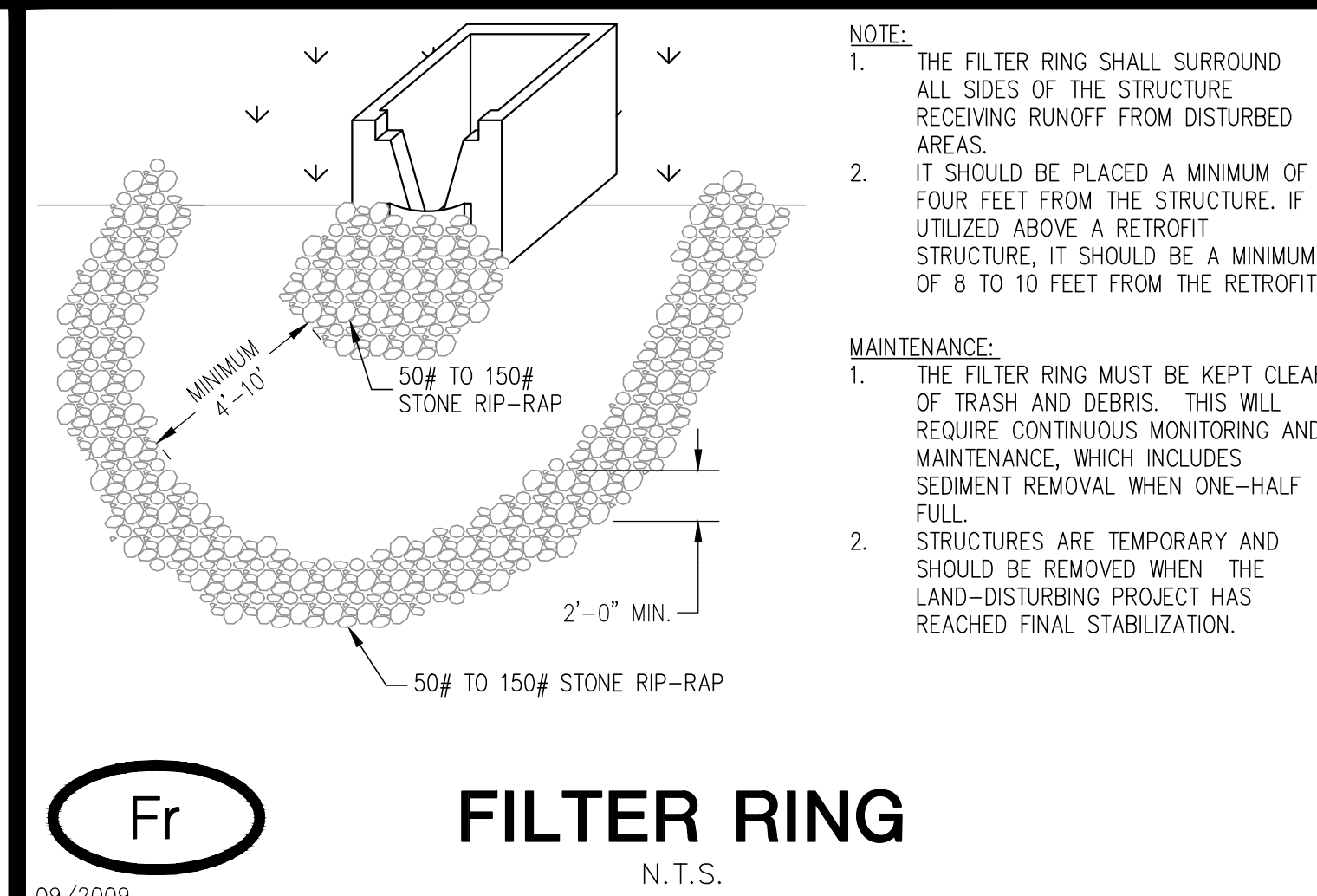
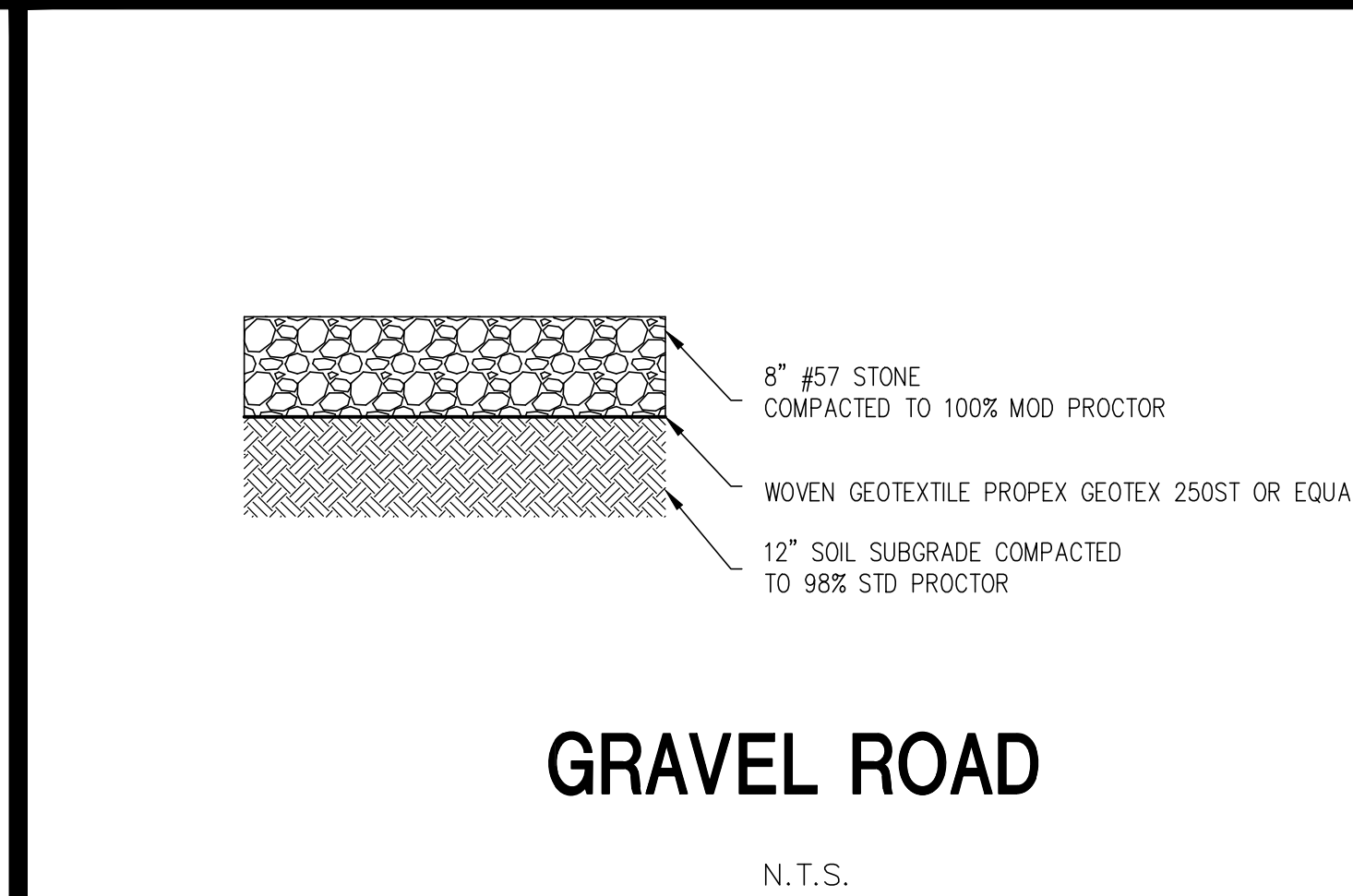
DESIGN PROFESSIONAL'S CERTIFICATION

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

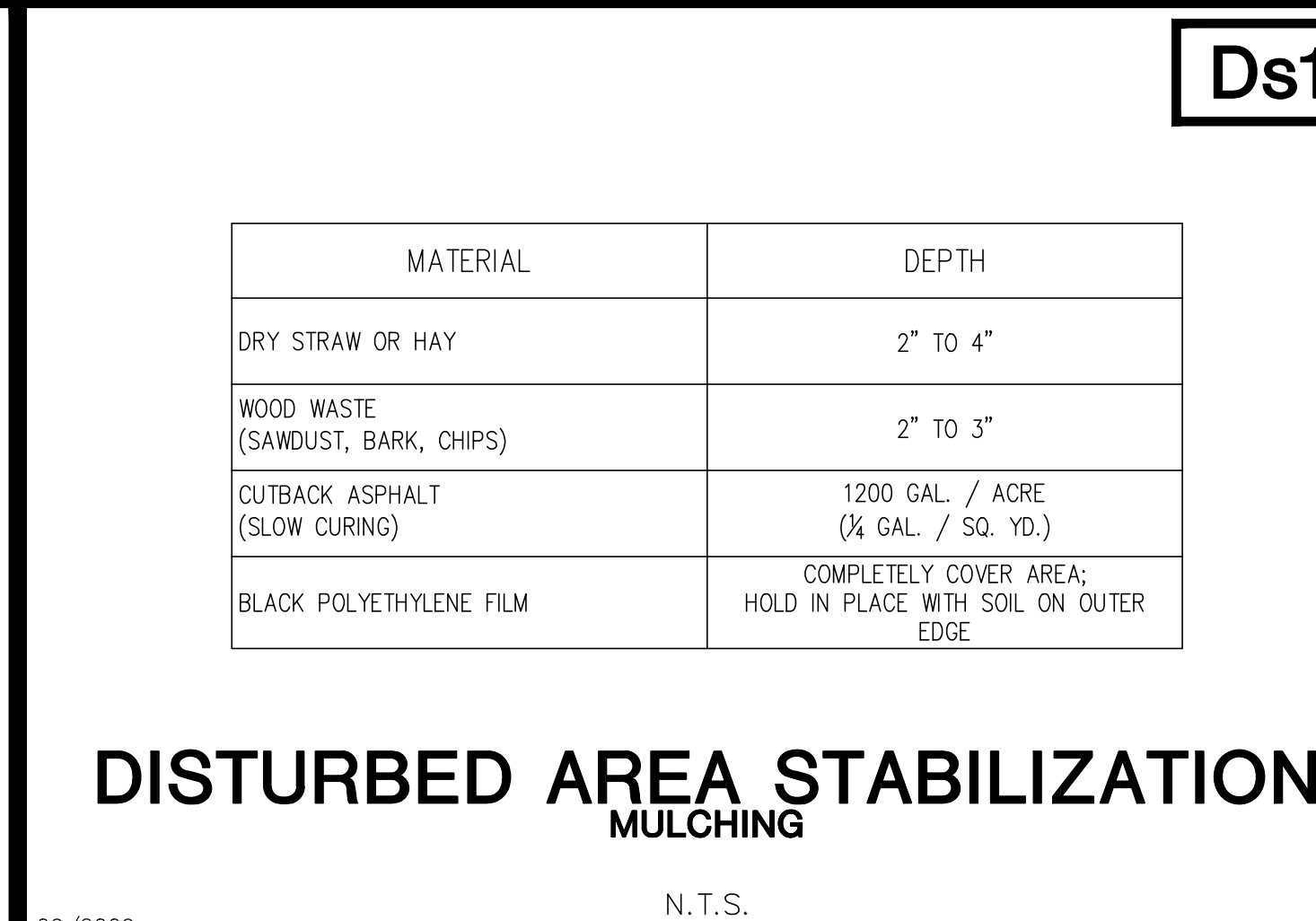
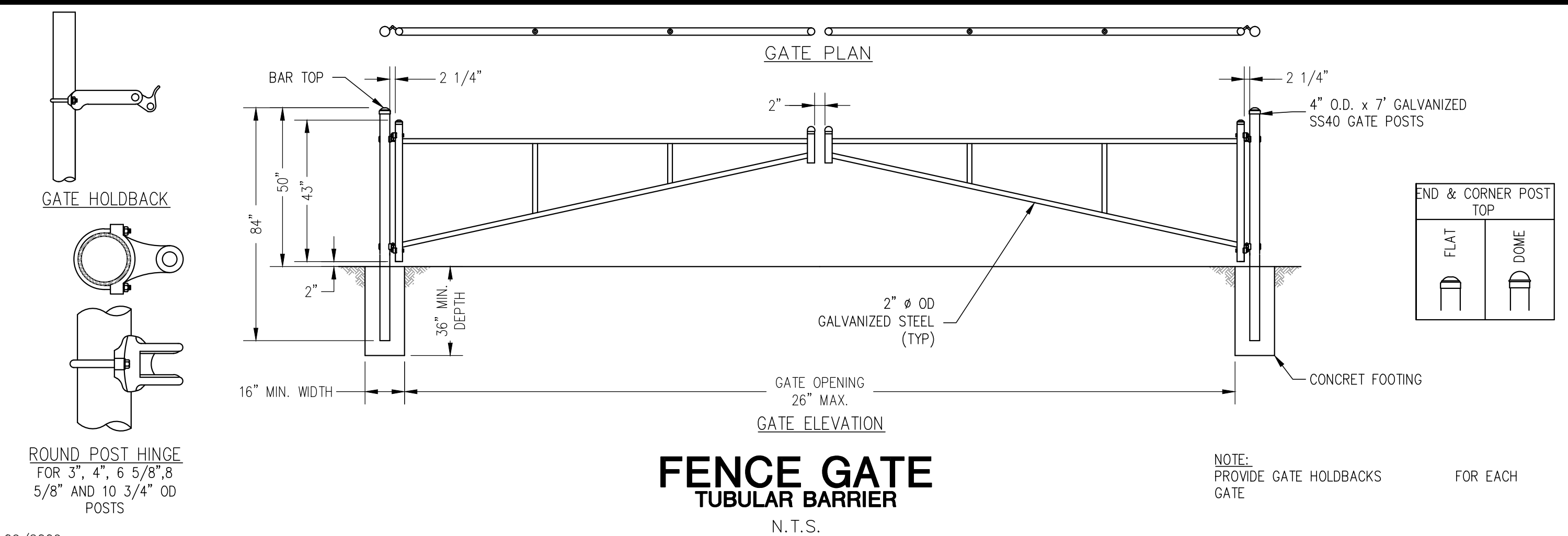
DATE _____ DESIGN PROFESSIONAL'S SIGNATURE & GSWCC CERTIFICATION NO. _____

REVISIONS			
NO.	DATE		
DATE: 08/26/2011			
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THIS DESIGN SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT IS PROPERLY SEALED AND SIGNED.			
EROSION CONTROL - BMP INFORMATION		ZONOLITE PLACE SITE ASBESTOS REMOVAL PREPARED FOR W.R. GRACE 6401 POPLAR AVENUE, SUITE 301 MEMPHIS, TENNESSEE 38119	
DESIGNED BY MBG	CHECKED BY JAL	URS Corporation 400 Northpark Town Center 1000 Northpark Drive, Suite 900 Atlanta, Georgia 30328 Tel: (678) 808-3800, Fax: (678) 808-9400	
PROJECT NO. 1526		ISSUED FOR CONSTRUCTION	
SHEET C405			

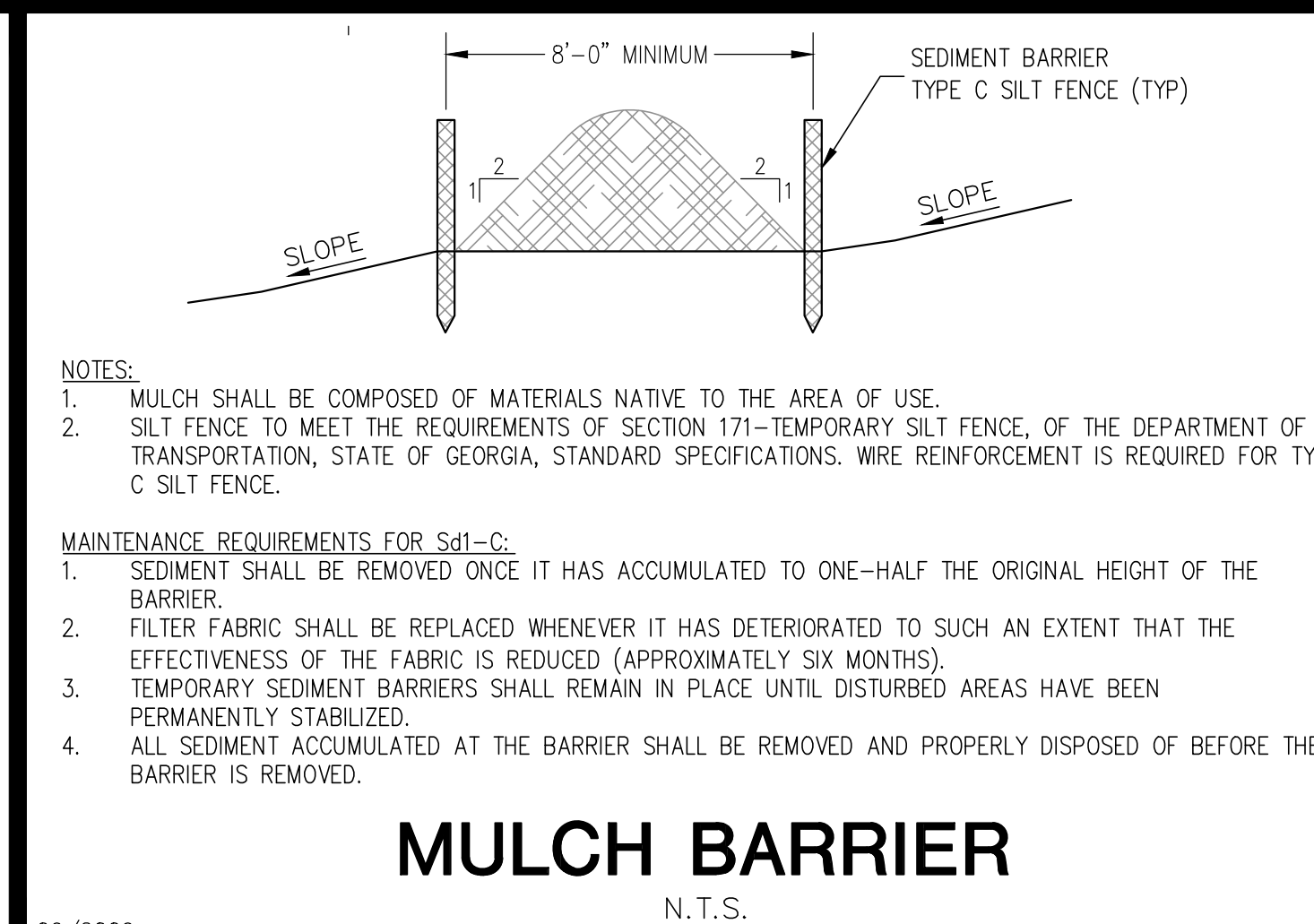
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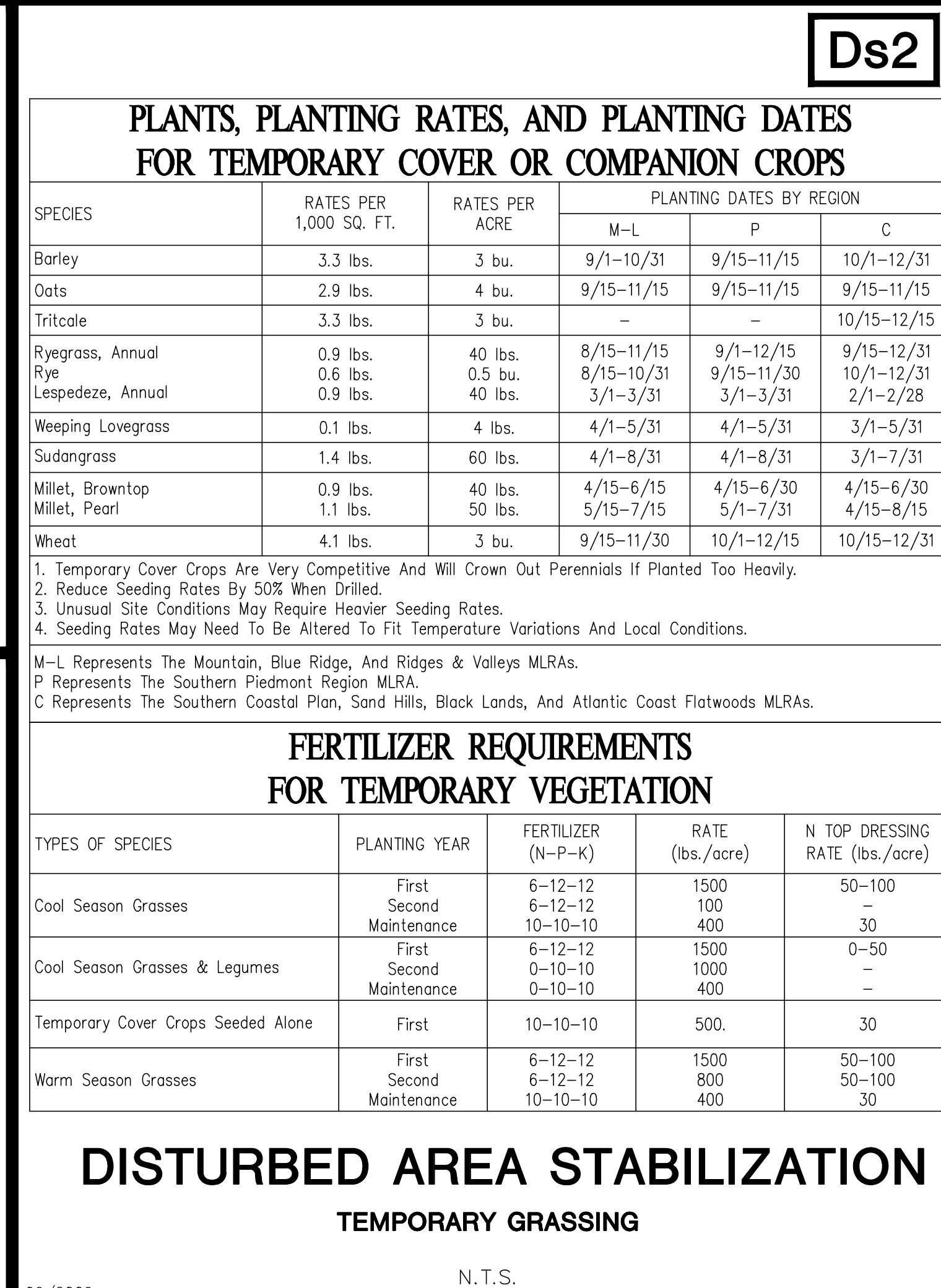
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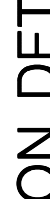
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[illegible]

**ZONOLITE PLACE SITE
ASBESTOS REMOVAL**
PREPARED FOR
W.R. GRACE
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

<div style="text-align: center;">  </div>	CONSTRUCTION DETAILS	
	URS Corporation 400 Northpark Town Center 100 Abernathy Road N.E., Suite 900 Atlanta, Georgia 30328 Tel: (678) 908-8800, Fax: (678) 908-8400	
DRAWN BY MBG	CHECKED BY CEC	PROJECT NO. 1526 2691
<div style="display: flex; justify-content: space-between;"> SHEET C500 </div>		

PLANTS, PLANTING RATES, & PLANTING DATES FOR PERMANENT COVER						
TYPES OF SPECIES	RATES PER ACRE	RATES PER 1000 FT²	PLANTING DATES BY REGION			REMARKS
			M-L	P	C	
Bahia, Pensacola Alone Or With Temporary Cover With Perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lbs.	–	4/1 – 5/31	3/1 – 5/31	Low Growing And Sod Forming. Allow To Establish. Will Spread Into Bermuda Lawns.
Bahia, Wilmington Alone Or With Temporary Cover With Perennials	60 lbs. 30 lbs.	1.4 lbs. 0.7 lbs.	3/15 – 5/31	3/1 – 5/31	–	Low Growing And Sod Forming. Allow To Establish. Will Spread Into Bermuda Lawns.
Bermuda, Common (Hulled Seed) Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	–	4/1 – 5/31	3/15 – 5/31	Quick Cover, Low Growing, And Sod Forming. Needs Full Sun.
Bermuda, Common (Unhulled Seed) Alone Or With Temporary Cover With Perennials	10 lbs. 6 lbs.	0.2 lbs. 0.1 lbs.	–	10/1 – 2/28	11/1 – 1/31	Plant With Winter Annuals Plant With Tall Fescue
Bermuda Sprigs Temporary Cover	40 FT³	0.9 FT³	4/15 – 6/15	4/1 –6/15	4/1 – 5/31	1 ft³ = 650 Sprigs
	Sod Plug 3' x 3'					1 bu. = 1.25 ft³ or 800 Sprigs
Centipede	Block Sod Only		–	11/1 – 5/31	11/1 – 5/31	Drought Tolerant; Full Sun or Partial Shade; Effective Adjacent To Concrete And In Concentrated Flow Areas; Irrigation Needed Until Fully Established; Do Not Plant Near Pastures.
Crown Vetch With Winter Annuals Or Cool Winter Grasses	15 lbs.	0.3 lbs	9/1 – 10/15	9/1 –10/10	–	Mix With 30 lbs. Tall Fescue or 15 lbs. Rye; Inoculate Seed; Only North Of Atlanta; Dense Growth; Drought Tolerant & Fire Resistant
Fescue, Tall Alone With Other Perennials	50 lbs. 30 lbs.	1.1 lbs 0.7 lbs.	3/1 –4/1 – Or – 8/15 – 10/15	9/1 – 10/15 – Or – 2/15 – 4/15	–	Not For Droughty Soils; Mix With Perennial Lespedeza Or Crown Vetch; Apply Topdressing In Spring Following Fall Plantings; Not For Heavy Use Or Athletic Fields; 227,000 Seeds Per Pound.
Lespedeza, Serica	60 lbs. 75 lbs.	1.4 lbs	4/1 – 5/31	3/15 – 5/31	3/1 – 5/15	Widely Adapted And Low Maintenance; Takes 2–3 Years To Establish; Excellent On Roadbanks; Inoculate Seed With EL Inoculant; Mix With Weeping Lovegrass, Common Bermuda, Bahia Or Tall Fescue.
Scarified		1.7 lbs	9/1 – 2/28	9/1 – 2/28	9/1 – 2/28	Mix With Tall Fescue Or Winter Annuals
Unscarified		138 lbs.	10/1 – 2/28	10/1 – 1/31	9/15 – 1/15	Cut When Seed Is Mature, But Before It Shatters; Add Tall Fescue Or Winter Annuals.
Seed-Bearing Hay	3 Tons					
Lespedeza, Ambro Virgeta Or Appalow						Spreading Growth With Height of 18"–24"; Good In Urban Areas; Mix With Weeping Lovegrass, Common Bermuda, Bahia, Tall Fescue, Or Winter Annuals; Do Not Mix With Serica Lespedeza; Slow To Develop Solid Stands; Inoculate Seed With EL Inoculant.
Scarified Unscarified	60 lbs. 75 lbs.	1.4 lbs 1.7 lbs	4/1 – 5/31 9/1 – 2/28	3/15 – 5/31 9/1 – 2/28	3/15 –5/15 9/1 – 2/28	
Lespedeza, Shrub (Lespedeza Bicolor or Lespedeza Thumbergii) Plants	3' x 3' Spacing		10/1 – 3/31	11/1 – 3/15	11/15 – 2/28	Plant In Small Clumps For Wildlife Food And Cover
Lovegrass, Weeping Alone With Other Perennials	4 lbs 2 lbs	0.1 lbs 0.05 lbs	4/1 – 5/31	3/15 – 5/31	3/1 – 5/31	Quick Cover. Drought Tolerant. Grows Well With Sericea Lespedeza On Roadbanks.
Maidencane Sprigs	2' x 3' Spacing		2/1 – 3/31	2/1 – 3/31	2/1 – 3/31	For Very Wet Sites Such As Riverbanks And Shorelines. Dig Sprigs Locally. May Clog Channels.
Panicgrass, Atlantic Coastal	20 lbs	0.5 lbs	–	3/1 – 4/30	3/1 – 4/30	Grows Well On Coastal Sand Dunes, Borrow Areas, And Gravel Pits. Provides Winter Cover For Wildlife. Mix With Sericea Lespedeza Except On Sand Dunes.
Reed Canary Grass Alone With Other Perennials	50 lbs 30 lbs	1.1 lbs 0.7 lbs	6/15 – 10/15	9/1 – 10/15	–	Grows Similar To Tall Fescue
Sunflower, 'Aztec' Maximilian	10 lbs	0.2 lbs	4/15 – 5/31	4/15 – 5/31	4/15 – 5/31	Mix With Weeping Lovegrass, Legumes, Or Other Low Growing Grasses.

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION				
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (lbs./acre)	N TOP DRESSING RATE (lbs./acre)
Cool Season Grasses	First	6–12–12	1500	50–100
	Second	6–12–12	1000	—
	Maintenance	10–10–10	400	30
Cool Season Grasses & Legumes	First	6–12–12	1500	0–50
	Second	0–10–10	1000	—
	Maintenance	0–10–10	400	—
Ground Covers	First	10–10–10	1300	—
	Second	10–10–10	1300	—
	Maintenance	10–10–10	1100	—
Pine Seedlings	First	20–10–5	one 21–gram pellet per seedling placed in th closing hole	—
Shrub Lespedeza	First Maintenance	0–10–10 0–10–10	700 700	— —
Temporary Ground Cover Crops Seeded Alone	First	10–10–10	500	30
Warm Season Grasses	First	6–12–12	1500	50–100
	Second	6–12–12	800	50–100
	Maintenance	10–10–10	400	30
Warm Season Grasses & Legumes	First	6–12–12	1500	50
	Second	0–10–10	1000	—
	Maintenance	0–10–10	400	—

APPLY MULCH, EITHER:
HAY AT 2 TONS/ACRE
—OR—
WHEAT STRAW AT 2.5 TONS/ACRE

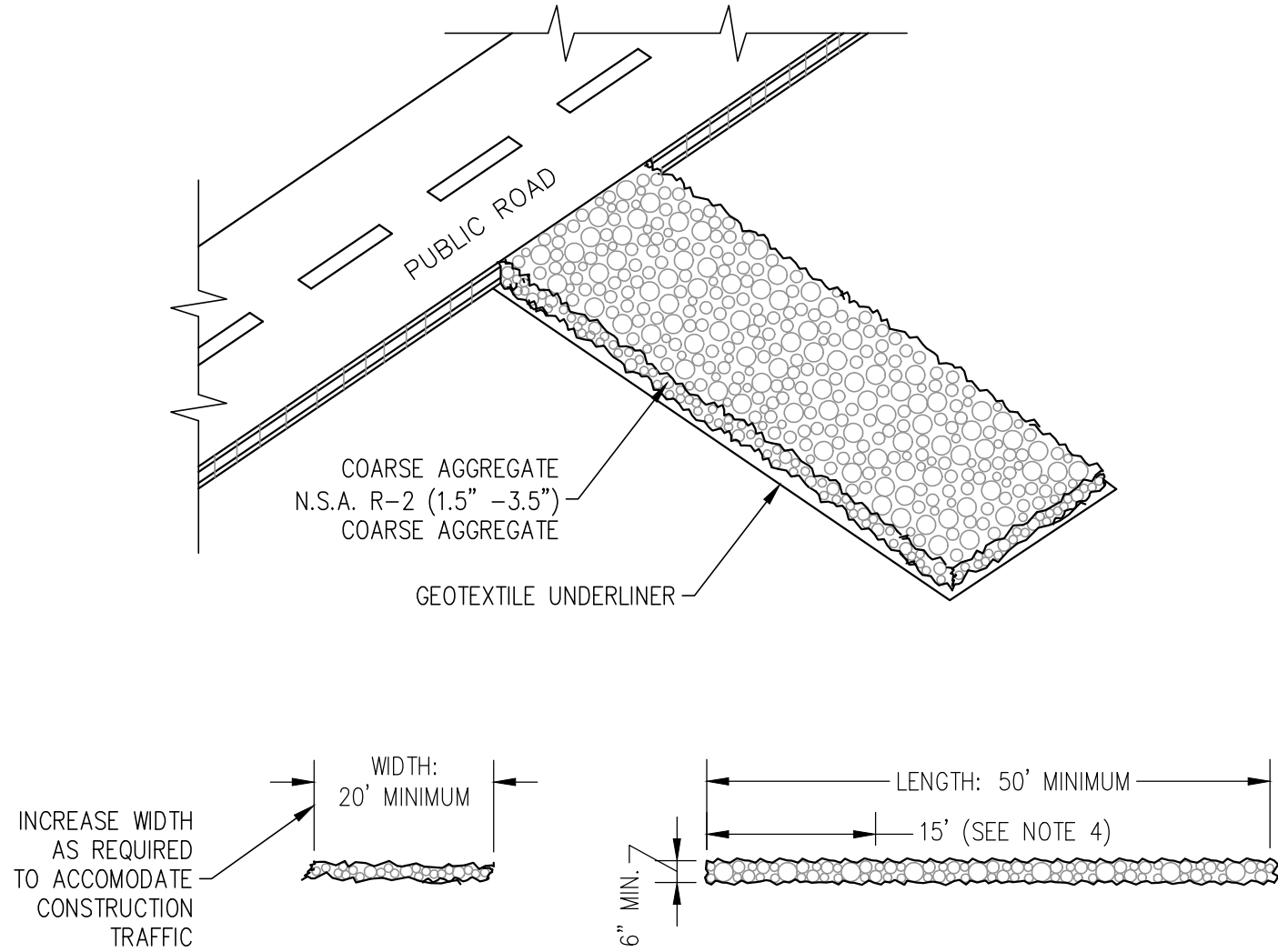
APPLY AGRICULTURAL LIME AS
PRESCRIBED BY SOIL TESTS OR AT A
RATE OF 1–2 TONS PER ACRE

DISTURBED AREA STABILIZATION

PERMANENT GRASSING

N.T.S.

Ds3



NOTES:

- LOCATE STONE STABILIZED PAD AT ANY POINT WHERE VEHICULAR TRAFFIC WILL BE LEAVING THE CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY, STREET, ROADWAY, OR PARKING AREA.
- WIDTH – SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20' WIDE. LENGTH – 50'-0 MINIMUM
- IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE MUD, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ON TO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, DO SO ON AREAS STABILIZED WITH CRUSHED STONE DRAINING INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. OWNER TO PROVIDE HOSE BIBB OR WATER TRUCK.
- FOR CONSTRUCTION EXITS WITH A SLOPE GREATER THAN 2% A DIVERSION RIDGE 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES SHALL BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15' ABOVE THE ROAD.
- THE GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE EXIT. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288–98 SPECIFICATION.

MAINTENANCE:

- THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5–3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT.
- ALL MATERIALS SPILLED, DROPPED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

Co CONSTRUCTION EXIT

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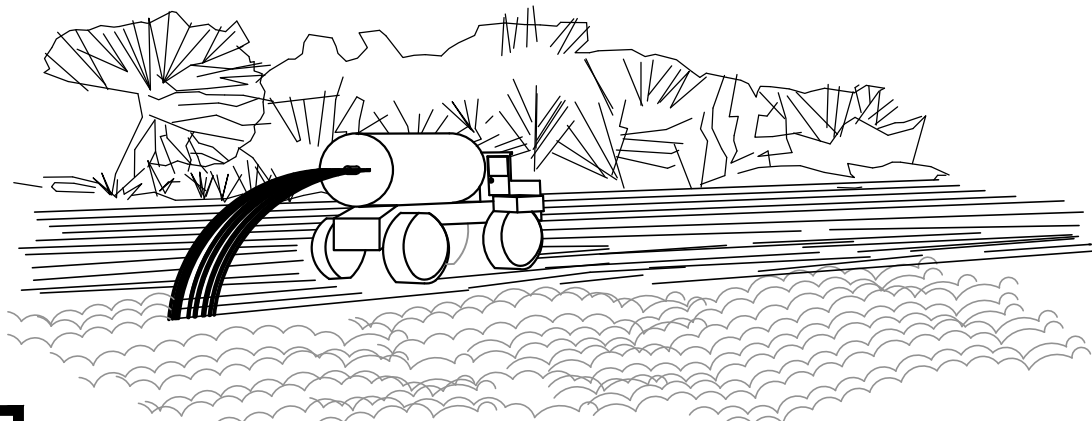
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PERMANENT METHODS:

PERMANENT VEGETATION: REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)
TOPSOILING: COVERING THE SURFACE WITH A LESS EROSION SOIL MATERIAL
STONE: SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE Cr – CONSTRUCTION ROAD STABILIZATION)

TEMPORARY METHODS:

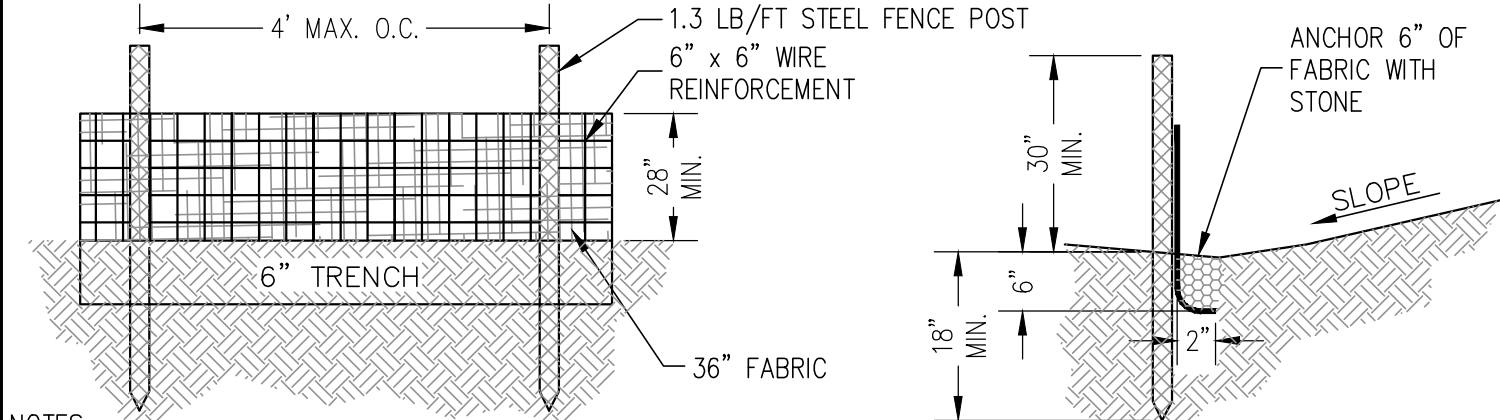
MULCHES: REFER TO Ds1 (DISTURBED AREA STABILIZATION) VEGETATIVE COVER – REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)
TILLAGE: ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART
IRRIGATION: SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED
BARRIERS: FENCES, HAY BALES, AND GRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS
CALCIUM CHLORIDE: APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.
TACKIFIERS & BINDERS: REFER TO Ds DEAIL



Du DUST CONTROL

N.T.S.

09/2009



NOTES:

SILT FENCE TO MEET THE REQUIREMENTS OF SECTION 171–TEMPORARY SILT FENCE, OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS. VENDOR OR MANUFACTURER SHALL PROVIDE WARRANTY STATING MATERIAL MEETS D.O.T. SPECIFICATIONS AND IS ON D.O.T. PRODUCTS LIST # 36.

MAINTENANCE:

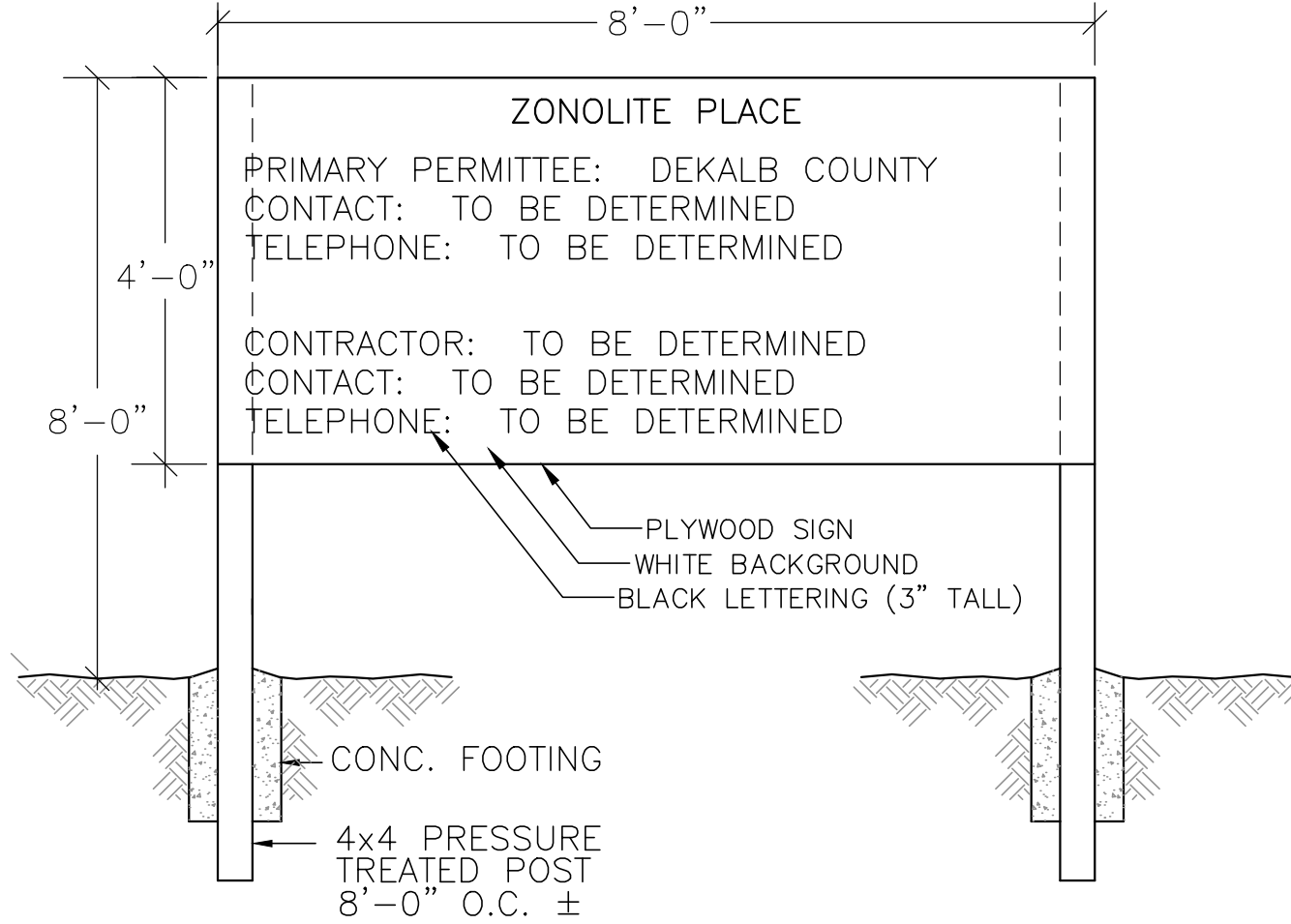
- SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).
- TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Sd1-C SEDIMENT BARRIER

TYPE C SILT FENCE

N.T.S.

09/2009



NOTE:
SIGN WILL NOT BE PAID FOR AS A SEPARATE PAY ITEM.
PRICE WILL BE INCLUDED IN OVERALL BID PRICE.

IMPAIRED STREAM SEGMENT SIGN

N.T.S.

REVISIONS

NO.	DATE

DATE: 08/05/2011

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ZONOLITE PLACE SITE
ASBESTOS REMOVAL
PREPARED FOR
W.R. GRACE
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE

CONSTRUCTION DETAILS

URS Corporation
400 North Peachtree Street
Atlanta, Georgia 30328
Tel: (678) 808-8800, Fax: (678) 808-8400

URS

DRAWN BY: MBG
CHECKED BY: CEC
PROJECT NO.: 1526 2691

SHEET

C501

PROJECT INFORMATION

1. PROJECT:

ZONOLITE PLACE SITE ASBESTOS REMOVAL
1147 ZONOLITE PLACE
ATLANTA, GEORGIA 30306
DEKALB COUNTY
LAND LOT: 107
DISTRICT: 18TH

CONTACT INFORMATION

1. OWNER:

ROBERT J. MEDLER, PROJECT COORDINATOR
W.R. GRACE
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

2. OWNER'S REPRESENTATIVE:

REMEDIUM GROUP, INC.
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119
CONTACT: ROBERT R. MARRIAM
TEL: (901) 820-2023

3. CONSTRUCTION MANAGER:

REMEDIUM GROUP, INC.
6401 POPLAR AVENUE, SUITE 301
CONTACT: BILL E. MILLER
TEL: (901) 515-6032

4. CIVIL ENGINEER:

URS CORPORATION
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD NE
SUITE 900
ATLANTA, GEORGIA 30328
CONTACT: CHARLES CROWELL, P.E.
TEL: (678) 808-8800
FAX: (678) 808-8400

5. 24-HOUR CONTACT

CONTACT: BILL E. MILLER
TEL: (901) 515-6032

SURVEY INFORMATION

1. SURVEYOR:

GEOSURVEY
1170 ATLANTA INDUSTRIAL DRIVE
MARIETTA, GEORGIA 30066
TEL: (770) 795-9900
FAX: (770) 795-8880
SURVEYOR'S PROJECT NUMBER: 20114169
SURVEYOR'S FILE NAME: 20114169.dwg

2. SURVEY INFORMATION:

ORIGINAL SURVEY DATE: JULY 12, 2011

3. BENCHMARK INFORMATION:

- A. DATUM IS BASED ON MEAN SEA LEVEL.
- B. BENCHMARK INFORMATION IS SHOWN ON EXISTING CONDITIONS PLAN.

4. FLOOD MAP INFORMATION:

AS PER FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 13089C0062 H DATED MAY 7 2001, SUBJECT PROPERTY DOES LIE WITHIN A FLOOD HAZARD AREA.

5. UTILITY INFORMATION:

- A. THE UNDERGROUND UTILITIES SHOWN ON THE SURVEY HAVE BEEN LOCATED FROM FIELD INFORMATION, EXISTING DRAWINGS, OR BOTH.
- B. UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR WARRANTS THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
- C. UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR WARRANTS THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- D. UNLESS NOTED OTHERWISE, NEITHER THE ENGINEER NOR THE SURVEYOR HAS PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

DRAWING INFORMATION

1. THE FOLLOWING ARE APPLICABLE TO ALL CIVIL DOCUMENTS:

- A. THE ISSUED PROJECT DRAWINGS ARE ONE COMPONENT OF THE CONSTRUCTION CONTRACT DOCUMENTS AND IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS, DETAILS AND APPLICABLE CODES AND REGULATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE. ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. CONTACT THE ENGINEER TO OBTAIN A COPY OF THE GENERAL SPECIFICATIONS.
- B. WHERE A DETAIL SECTION, TYPICAL SECTION, OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE ON THE PLANS.
- C. EXISTING CONTOURS ARE AT ONE (1) FOOT INTERVALS.
- D. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

CONTRACTOR RESPONSIBILITIES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A. VERIFICATION OF ALL EXISTING CONDITIONS INCLUDING UTILITIES (INVERTS, CONNECTIONS, MATERIALS, ETC.) AND DIMENSIONS WITHIN THE LIMITS OF WORK.
- B. REFERRING TO ARCHITECTURAL DRAWINGS FOR DETAILED BUILDING INFORMATION (WHEN APPLICABLE).
- C. ALL NOTIFICATIONS AND LIAISONS WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RELOCATING, AND TYING INTO PUBLIC UTILITIES.
- D. CLEARLY AND ACCURATELY DEMARCATING WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, THE LIMITS OF LAND DISTURBANCE PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES. THESE LIMITS SHALL BE ESTABLISHED ACCORDING TO THE PROCEDURES ESTABLISHED BY THE GOVERNING AUTHORITY. THE LOCATION OF AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED

LIMITS OF DISTURBANCE.

2. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- A. ASSURANCE OF NO DEVIATIONS FROM THESE PLANS AND ANY ASSOCIATED SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER, AS IT MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- B. THE USE OF MATERIALS AND EMPLOYMENT OF CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND ANY ASSOCIATED SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER *IN WRITING* OF ANY SPECIFIC DEVIATIONS AND OBTAIN THE ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION *PRIOR TO THE CONSTRUCTION OF THE DEVIATION.*
- C. FOLLOWING ALL SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THIS IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- D. CONFORMING TO ALL OF THE CONSTRUCTION STANDARDS, SPECIFICATIONS, AND CODES OF THE GOVERNING MUNICIPALITIES.
- E. MEETING ALL CONSTRUCTION STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.
- F. ANY DAMAGES TO ANY EXISTING UTILITIES DURING CONSTRUCTION CAUSED BY THE CONTRACTOR. HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO THE ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
- G. ANY DAMAGES TO ANY EXISTING SITE FEATURES DURING CONSTRUCTION CAUSED BY THE CONTRACTOR. HE SHALL AT HIS OWN EXPENSE, REPLACE OR REPAIR THE FEATURES TO ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER OR THEIR DESIGNATED REPRESENTATIVE.
- H. SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- I. INSTALLATION OF TRAFFIC CONTROLS AND OTHER WARNING DEVICES PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR GEORGIA DEPARTMENT OF TRANSPORTATION ROADS. THEY SHALL BE MAINTAINED THROUGH OUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.
- J. ASSURANCE THAT ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE (MUTCD, CURRENT EDITION, AND THE STANDARDS OF THE GOVERNING AUTHORITY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- J. MAINTENANCE OF FIRE DEPARTMENT ACCESS AT ALL TIMES.
- L. THE SHORING AND BRACING OF ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, THERMAL, CONSTRUCTION, AND MISCELLANEOUS LOADS DURING CONSTRUCTION.
- M. ON-SITE BURIAL OF DEBRIS IS PROHIBITED.
- N. UNLESS OTHERWISE NOTED, SUBMITTAL OF SHOP DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER FOR REVIEW. DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS.
- O. THE IMMEDIATE NOTIFICATION OF THE ENGINEER IN WRITING, IN CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES.
- P. THE AVAILABILITY OF ALL REQUIRED TESTING REPORTS AT THE JOB SITE.
- Q. AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY SEWER AND WATER LINES, FIELD APPROVAL BY THE ENGINEER, AND ALL APPLICABLE BONDS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- R. THE COMPACTING OF ALL FILL AREAS TO MINIMUM 95% STANDARD PROCTOR UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS
- T. ASSURANCE OF CUT AND FILL SLOPES NOT EXCEEDING 2:1 HORIZONTAL:VERTICAL (H:V)

DEMOLITION INFORMATION

1. NOTIFICATIONS:

- A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND COUNTY/CITY INSPECTOR(S) 24 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

2. DISPOSAL GUIDELINES:

- A. ONLY ITEMS SPECIFICALLY NOTED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE.
- B. THE CONTRACTOR SHALL REMOVE EXISTING PAVED AREAS AS SHOWN INCLUDING DRIVEWAYS, SIDEWALKS, PARKING AREAS, SERVICE AREAS, EQUIPMENT PADS, AND ALL MISCELLANEOUS PAVING.
- C. ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR. THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.
- D. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

3. TREE PROTECTION GUIDELINES:

- A. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES AND ALL ITEMS TO BE TURNED OVER TO THE OWNER DURING DEMOLITION AND TAKE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES. ANY EXISTING ITEMS TO BE TURNED OVER TO THE OWNER WHICH ARE DAMAGED DURING DEMOLITION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. TREES WHICH ARE DAMAGED WILL BE REPLACED OR REIMBURSED AT A RATE TO BE DETERMINED BY THE OWNER.

4. UTILITIES:

- A. PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO UPSTREAM SERVICE WILL BE TERMINATED. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY TERMINATION NOT SHOWN ON THE PLANS.
- B. ALL ABANDONED WATER LINES, STORM SEWER PIPE, SANITARY SEWER PIPES, GAS LINES, OR ANY OTHER ABANDONED UNDERGROUND UTILITY SHALL BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE.

5. GRADING:

- A. THE CONTRACTOR SHALL COMPACT AND ROUGH GRADE THE ENTIRE SITE IN ACCORDANCE WITH SECTION 02300 OF THE CIVIL SPECIFICATIONS. ANY EXCAVATIONS IN THESE AREAS SHALL BE BACKFILLED, BUT SHOULD NOT RAISE OR LOWER EXISTING GRADES.

ABBREVIATIONS

1. DIMENSIONS AN MEASUREMENTS

AC	ACRE(S)	CF	CUBIC FOOT/FEET
CFS	CUBIC FEET PER SECOND	cm	CENTIMETER(S)
cm/sec	CENTIMETERS PER SECOND	CY	CUBIC YARD(S)
DEG (°)	DEGREE(S)	DIA (ø)	DIAMETER
ELEV	ELEVATION	FF	FINISHED FLOOR ELEVATION
FFE	FINISHED FLOOR ELEVATION	FT	FOOT/FEET
FT/SEC	FEET PER SECOND	GA	GAUGE
GAL	GALLON(S)	GPM	GALLONS PER MINUTE
GSF	GROSS SQUARE FEET	H	HEIGHT
H:V	HORIZONTAL:VERTICAL	HORIZ	HORIZONTAL
in	INCH(ES)	in/hr	INCHES PER HOUR
km	KILOMETER(S)	LB	POUND
LF	LINEAR FOOT/FEET	m	METER(S)
mi	MILE(S)	MIN	MINIMUM
mm	MILLIMETER	mph	MILES PER HOUR
MSF	1,000 SQUARE FEET	MSL	MEAN SEAL LEVEL
NTS	NOT TO SCALE	OC	ON CENTER
PSI	POUNDS PER SQUARE INCH	SF	SQUARE FEET
SY	SQUARE YARD	T	THICKNESS
V	VERTICAL	W	WIDTH
YR	YEAR		

2. EROSION CONTROL AND WATER QUALITY

BMP	BEST MANAGEMENT PRACTICE	CMP	COMPREHENSIVE MONITORING PROGRAM
d ₅₀	AVERAGE RIP-RAP STONE DIAMETER	d _{max}	MAXIMUM RIP-RAP STONE DIAMETER
d _{min}	MINIMUM RIP-RAP STONE DIAMETER	T _c	TIME OF CONCENTRATION

3. GENERAL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	CO	CERTIFICATE OF OCCUPANCY
ADA	AMERICANS WITH DISABILITIES ACT	DNR	DEPARTMENT OF NATURAL RESOURCES
ARCH	ARCHITECT/ARCHITECTURAL	ET	ENGINEER IN TRAINING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EPD	ENVIRONMENTAL PROTECTION DIVISION
BLDG	BUILDING	EXT	EXTENSION
DEMO	DEMOLISH	FIRM	FLOOD INSURANCE RATE MAP
DOT	DEPARTMENT OF TRANSPORTATION	GAB	GRADED AGGREGATE BASE
EPA	ENVIRONMENTAL PROTECTION AGENCY	GPS	GLOBAL POSITIONING SYSTEM
EX	EXISTING	INV.	INVERT
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	LLC	LIMITED LIABILITY CORPORATION
FIS	FLOOD INSURANCE STUDY	MAX	MAXIMUM
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION	MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
GSWCC	GEORGIA SOIL & WATER CONSERVATION COMMISSION	NFIP	NATIONAL FLOOD INSURANCE PROGRAM
LDP	LAND DISTURBANCE PERMIT	PE	PROFESSIONAL ENGINEER
MAINT	MAINTENANCE	REV	REVISION
MECH	MECHANICAL	SLUP	SPECIAL LAND USE PERMIT
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	TEMP	TEMPORARY
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	TYP	TYPICAL
NFPA	NATIONAL FIRE PROTECTION AGENCY		
NRSC	NATURAL RESOURCES CONSERVATION SERVICE		
PROPOSED	PROPOSED		
RLS	REGISTERED LAND SURVEYOR		
STD	STANDARD		
TRANS	TRANSITION		
USGS	UNITED STATES GEOLOGICAL SURVEY		

4. SITE, STAKING, AND SURVEY

BSL	BUILDING SETBACK LINE	BOC	BACK OF CURB
C#	CURVE NUMBER	C	LENGTH OF CHORD
C/G	CURB AND GUTTER	C&G	CURB AND GUTTER
CMF	CONCRETE MONUMENT FOUND	CL	CENTERLINE
E	EASTING	CONC	CONCRETE
EOP	EDGE OF PAVEMENT	EP	EDGE OF PAVEMENT
FOC	FACE OF CURB	FC	FACE OF CURB
IPS	IRON PIN SET	IPF	IRON PIN FOUND
L	LENGTH OF CURVE	I	LENGTH OF BEARING
LL	LAND LOT	L#	LINE NUMBER
LLL	LAND LOT LINE	LLC	LAND LOT CORNER
N	NORTHING	MON	MONUMENT
P#	POINT NUMBER	NAD	NORTH AMERICAN DATUM
POC	POINT OF CURVATURE	POT	POINT OF CONTINUOUS CURVATURE
PL	PROPERTY LINE	POB	POINT OF BEGINNING
PRC	POINT OF REVERSE CURVATURE	PT	POINT OF TANGENCY
R	RADIUS OF CURVE	R/W	RIGHT-OF-WAY
SR	STATE ROUTE	SBL	SETBACK LINE
WWF	WELDED WIRE FABRIC	T	LENGTH OF TANGENT

5. SPOT ELEVATION/GRADING

BC	BOTTOM OF CURB	BG	BOTTOM GRADE AT WALL	BW	BOTTOM OF WALL
HP	HIGH POINT	LP	LOW POINT	TC	TOP OF CURB
TG	TOP GRADE AT WALL	TW	TOP OF WALL		

6. STORM WATER

c	RUNOFF COEFFICIENT	CI	CURB INLET	DA	DRAINAGE AREA
DI	DROP INLET	DWCB	DOUBLE WING CATCH BASIN	FB	FREEBOARD
FD	FRENCH DRAIN	FES	FLARED END SECTION	FPL	FLOODPLAIN
FW	FLOODWAY	HGL	HYDRAULIC GRADE LINE	HODI	HOODED DROP INLET
HW	HEADWALL	HWE	HIGH WATER ELEVATION	JB	JUNCTION BOX
MES	MITERED END SECTION	MH	MANHOLE	n	MANNING'S ROUGHNESS COEFFICIENT
OCS	OUTLET CONTROL STRUCTURE	Q	FLOW	Q ₁₀	# YEAR FLOW
Q _{max}	MAXIMUM FLOW	Q _{min}	MINIMUM FLOW	RD	ROOF DRAIN
SD	STORM DRAIN	ST	STORM SEWER	SWCB	SINGLE WING CATCH BASIN
WSE	WATER SURFACE ELEVATION				

7. UTILITY

ACCOMP	ALUMINUM COATED CORRUGATED METAL PIPE	CATV	CABLE TELEVISION
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE	CMP	CORRUGATED METAL PIPE
BFF	BACKFLOW PREVENTER	CPP	CORRUGATED PLASTIC PIPE
CI	CAST IRON	DDC	DOUBLE DETECTOR CHECK
CO	CLEAN OUT	DW	DOMESTIC WATER SERVICE
CV	CHECK VALVE	FH	FIRE HYDRANT
DIP	DUCTILE IRON PIPE	FM	FORCE MAIN
FDC	FIRE DEPARTMENT CONNECTION	FW	FIRE WATER SERVICE
FHYD	FIRE HYDRANT	HOPE	HIGH DENSITY POLYETHYLENE
FOC	FIBER OPTIC CABLE	LDPE	LOW DENSITY POLYETHYLENE
GV	GATE VALVE	OHP	OVERHEAD POWER LINE
FH	FIRE HYDRANT	PIV	POST INDICATOR VALVE
CHC	OVERHEAD CABLE TELEVISION LINE	PT&C	POWER, TELEPHONE, AND CABLE TELEVISION LINE
OHT	OVERHEAD TELEPHONE LINE	RCP	REINFORCED CONCRETE PIPE
PP	POWER POLE	SSMH	SANITARY SEWER MANHOLE
PVC	POLYVINYL CHLORIDE	UGP	UNDERGROUND POWER LINE
SS	SANITARY SEWER	VCP	VITRIFIED CLAY PIPE
UGC	UNDERGROUND CABLE TELEVISION LINE		
UGT	UNDERGROUND TELEPHONE LINE		

PLAN LINE TYPE AND SYMBOL LEGEND

CONTOURS

— — — — — EXISTING 1' CONTOUR
————— EXISTING 5" CONTOUR

FENCES

○ ○ ○ ○ ○ FENCE LINE
— X — X — X — X — X — SILT FENCE

UTILITY

— 8-SS — 8-SS — 8-SS — 8" DIAMETER SANITARY SEWER LINE
— OHP — OHP — OHP — OVERHEAD POWER

LP	LIGHT POLE
SS	SANITARY SEWER MANHOLE
HY	FIRE HYDRANT
WM	WATER METER

GRADING AND DRAINAGE/SPOT ELEVATION

← S → DRAINAGE DIRECTIONAL ARROW
— S — SLOPE DIRECTIONAL ARROW
+ (1000.00) SPOT ELEVATION (ELEVATION AT INTERSECTION OF LINES)

REVISIONS

NO.	DATE

DATE: 08/09/2011

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ZONOLITE PLACE SITE
ASBESTOS REMOVAL

PREPARED FOR

W.R. GRACE

6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

GENERAL NOTES, ABBREVIATIONS & LEGEND

URS Corporation
400 Northpark Town Center
1000 Abernathy Road, NE, Suite 900
Atlanta, Georgia 30328
Tel: (678) 808-8800, Fax: (678) 808-8400



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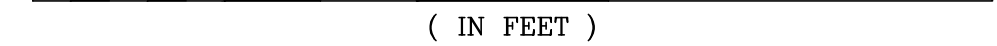
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**Know what's below
Call before you dig.**



20 40

$$1 \text{ inch} = 20 \text{ ft}$$


- PLEASE NOTE: ABOVE GROUND UTILITIES ARE SHOWN HEREON. NO UNDERGROUND UTILITIES.

4. 8. 5. FOR MULTILEAF

NOLITE ROAD SIDE ASBESTOS REMOVAL

PREPARED FOR
W.R. GRACE

EXISTING CONDITIONS PLAN

URS Corporation
400 Northpark Town Center

URS

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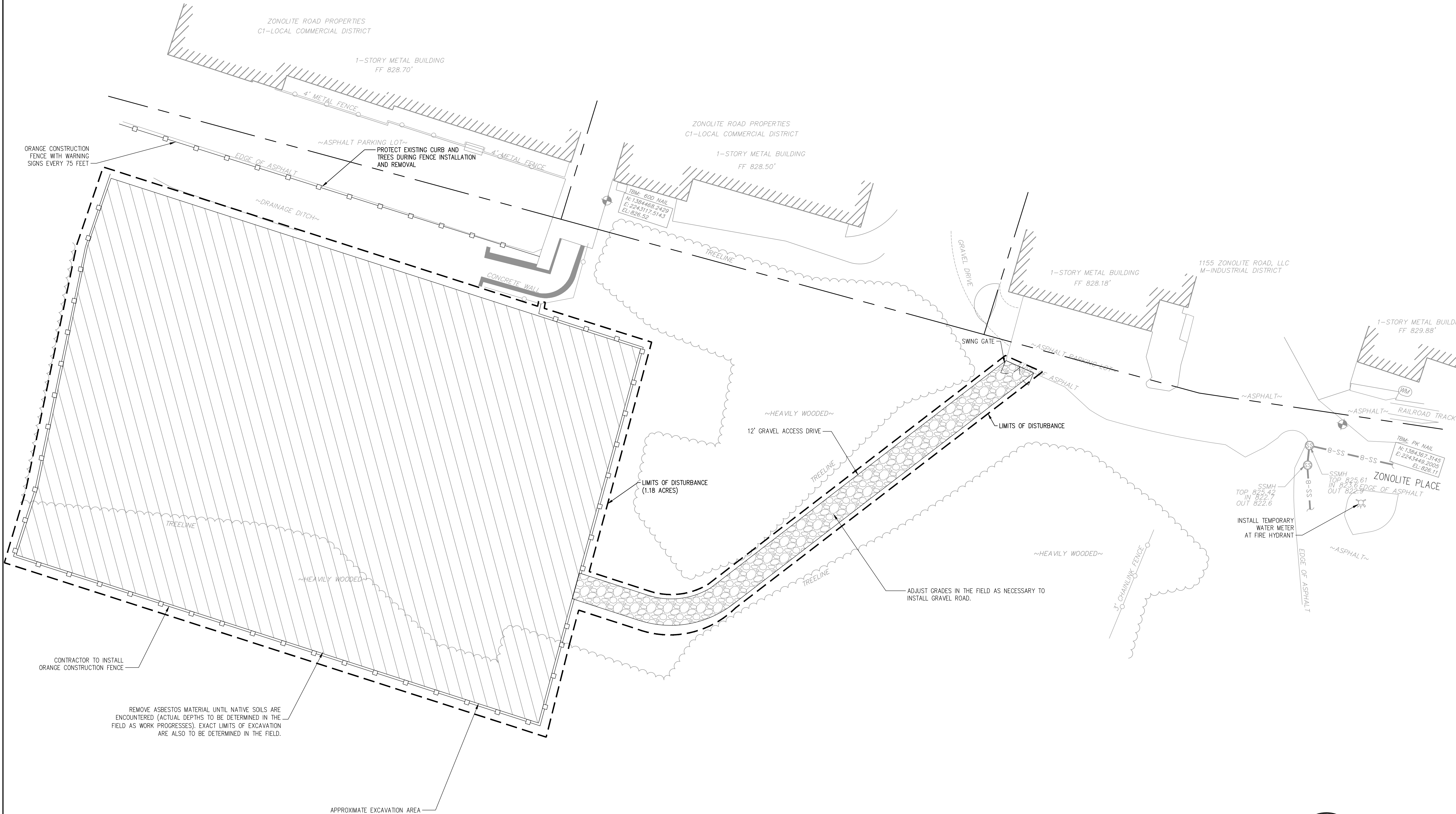
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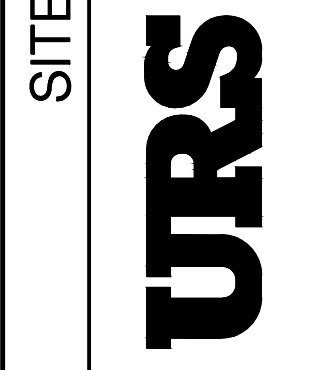
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ZONOLITE ROAD SITE
ASBESTOS REMOVAL
PREPARED FOR
W.R. GRACE
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

SITE PREPARATION PLAN
URS Corporation
400 North Peachtree Center
1000 Peachtree Road N.E., Suite 900
Atlanta, Georgia 30328
Tel: (678) 808-8800, Fax: (678) 808-8400



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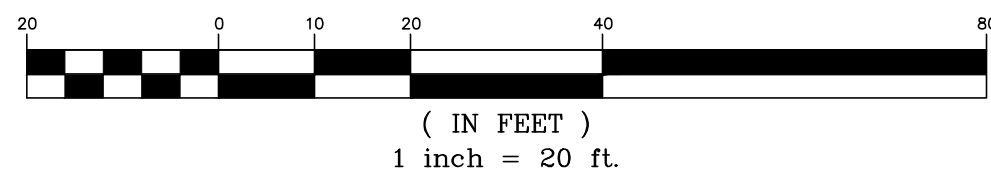
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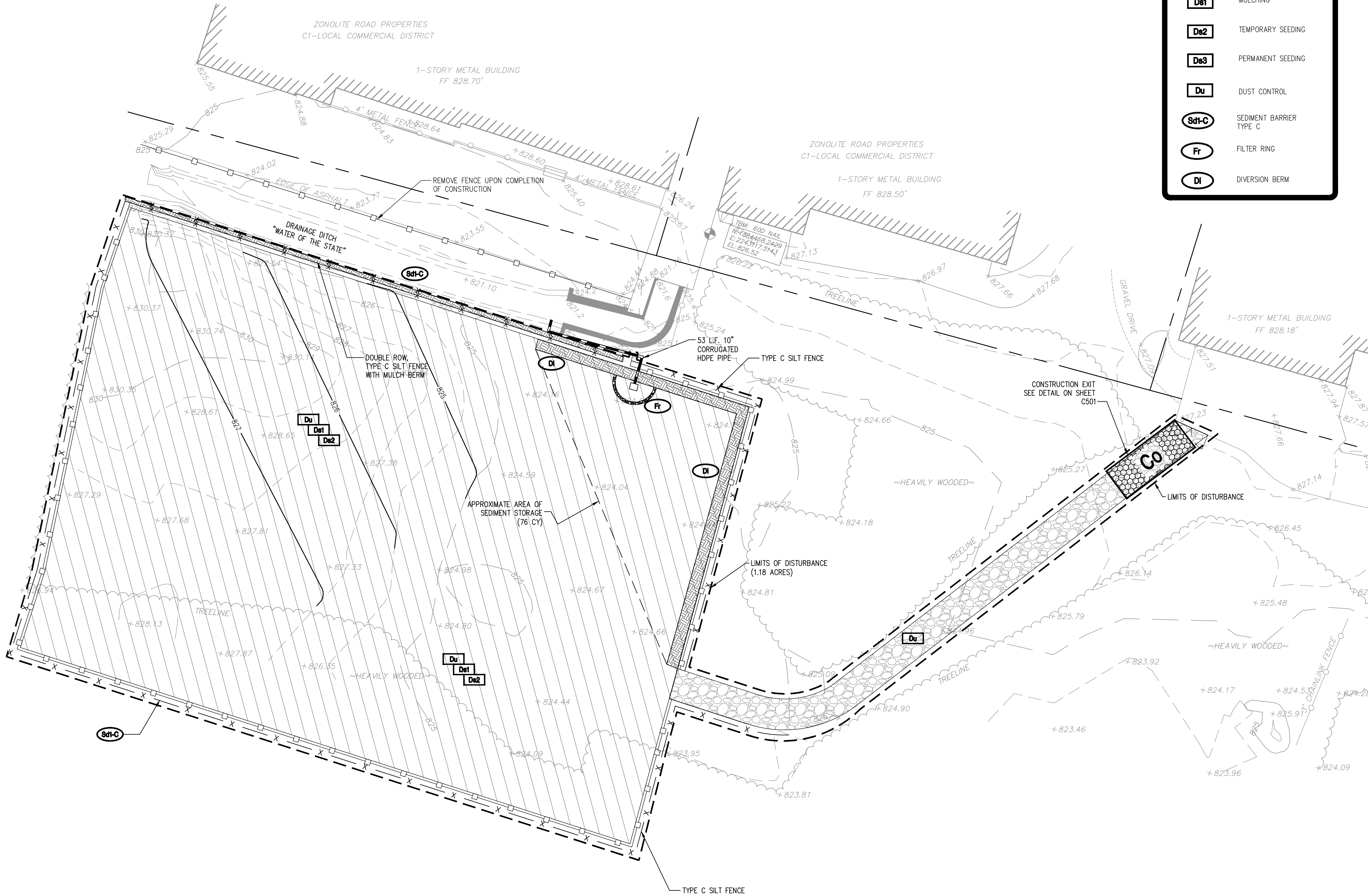
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LEGEND

1019

EXISTING GRADE

PROPERTY BOUNDARY

DRAINAGE ARROW

MULCHING

TEMPORARY SEEDING

PERMANENT SEEDING

DUST CONTROL

SEDIMENT BARRIER
TYPE C

FILTER RING

DIVERSION BERM

EROSION CONTROL NOTES:

1. REFER TO FOLLOWING SHEETS FOR ADDITIONAL EROSION CONTROL INFORMATION:
ACTIVITY SCHEDULE & AREA MAP: C000,C001
BEST MANAGEMENT PRACTICE NOTES & SYMBOL LEGEND: C400

2. SEDIMENT STORAGE CALCULATIONS:
REQUIRED SEDIMENT STORAGE = 67 CY/DISTURBED ACRE
DISTURBED AREA = 1.1 ACRES
REQUIRED SEDIMENT STORAGE = 67 CY/1.1 ACRES = 74 CY
SEDIMENT STORAGE PROVIDED = 76 CY
AVAILABLE STORAGE (76 CY) GREATER THAN REQUIRED STORAGE (74 CY)
YES. CAPACITY REQUIREMENT MET.

3. PROJECT DESCRIPTION:
THIS PROJECT WILL INCLUDE THE EXCAVATION AND REMOVAL OF ASBESTOS AT THE SITE. AN ACCESS ROAD AND STAGING AREA WILL BE CONSTRUCTED FOR USE DURING THE EXCAVATION AND REMOVAL. AFTER THE MATERIAL IS REMOVED THE SITE WILL BE RESTORED AND PERMANENT SEEDING WILL BE USED.

4. SITE DESCRIPTION:
THE SITE IS COMPRISED OF APPROXIMATELY 16 ACRES IN ATLANTA, DEKALB COUNTY, GEORGIA. THE SITE IS BORDERED BY LIGHT-INDUSTRIAL AND COMMERCIAL BUSINESSES TO THE NORTH AND TO THE EAST. PEACHTREE CREEK RUNS ALONG THE SOUTH AND WEST SIDES OF THE SITE. RESIDENTIAL COMMUNITIES ARE LOCATED TO THE SOUTH, WEST, AND NORTH SIDES OF THE SITE. THE SITE ELEVATIONS VARY FROM 824 TO 830 FEET ACROSS THE SITE OVER A HORIZONTAL DISTANCE OF 600 FEET. STORMWATER FLOWS IN ALL DIRECTIONS ON THE SITE TO MULTIPLE LOW POINTS. THE ENTIRE SITE IS COVERED IN VEGETATION AND PORTIONS OF THE SITE ARE HEAVILY WOODED.

5. SEDIMENT BASINS:
THE NATURE OF THIS PROJECT WILL PRECLUDE THE CONSTRUCTION OF A SEDIMENT BASIN FOR SEDIMENT STORAGE. DIVERSION BERMS AND A FILTER RING WILL BE CONSTRUCTED AS INDICATED ON THE PLANS TO PROVIDE THE REQUIRED SEDIMENT STORAGE FOR THE PROJECT.

6. INTERMEDIATE PHASE DESCRIPTION:
THE PERIMETER SILT FENCE AND DIVERSION BERMS INSTALLED DURING PHASE 1 WILL BE MAINTAINED THROUGHOUT THE INTERMEDIATE PHASE. DUST CONTROL MEASURES WILL BE ALSO USED THROUGHOUT THE CONSTRUCTION AND EXCAVATION. DURING THE EXCAVATION, ANY STORMWATER TO ACCUMULATE IN THE EXCAVATED AREA WILL BE REMOVED AND DISPOSED OF AS EXCAVATED MATERIAL. ANY SEDIMENT COLLECTED WILL BE DISPOSED OF IN THE PROPER MANNER.

7. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES WILL BE INSTALLED IF DEEMED NECESSARY BY THE ON-SITE INSPECTOR.

10. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

11. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.

12. CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.

13. WEEKLY EROSION AND SEDIMENT CONTROL REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT DEPARTMENT STARTING WITH THE ISSUANCE OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.

14. ALL SOIL ON THE SITE IS URBAN LAND (Ud).

15. THE DISTURBED AREA IS 1.18 ACRES.

16. THE PROJECT RECEIVING WATERS IS SOUTH FORK PEACHTREE CREEK.

17. EROSION & SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES WILL BE ADJUSTED IF WORK LIMITS CHANGE DUE TO FIELD CONDITIONS.

NORTH

GRAPHIC SCALE

(IN FEET)

1 inch = 20 ft.

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**ZONOLITE ROAD SITE
ASBESTOS REMOVAL**

PREPARED FOR
W.R. GRACE
6401 POPLAR AVENUE, SUITE 301
MEMPHIS, TENNESSEE 38119

EROSION CONTROL PLAN - INTERMEDIATE

URS Corporation
400 North Peachtree Dun Center
Atlanta, Georgia 30328
Tel: (678) 808-9800, Fax: (678) 808-9400

URS

DESIGNED BY: MBG

CHECKED BY: CEC

PROJECT NO: 1526 2691

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