- ign variation in materials or locations of controls or fences from those shown on the approved all requires a revision and must be approved by the reviewing Engineer, Environmental Specialist. Abonets as appropriate, Major revisions must be approved by the Planning and Development Department. Minor changes to be made as field revisions to the Erosion and Sedimentation Plan may be required by the Environmental Inspector during the course of construction to control inadequacies.

ENGINEER:
BRUCE 5. AUPPERLE, P.E.
AUPPERLE COMPANY
22.19 WESTLAKE DR. STE. 110
AUSTIN, TEXAS 78746
PHONE (51.2) 422-7836
FAX (51.2) 329-8241

OWNER:
GORDON MUIR
1404 ROCKCLIFF ROAD
AUSTIN, TEXAS 78746
(5 1 2) 964-4682

	80%	30%	Sand
	50%	10%	Silt
	25%	%5	Clay
т	Maximum	Minimum	Texture class

Topsol salvaged from the existing site may often be used, but it should meet the standards as set forth in these standards.

The vegetative stabilization of areas disturbed by construction shall be as follows: TEMPORARY VEGETATIVE STABILIZATION:

- From September 15 to March 1, seeding shall be with cool season cover crops (Wheat at 0.5 pounds per 1000 SF, Qats at 0.5 pounds per 1000 SF, Cereal Rye Grain at 0.5 pounds per 1000 SF) with a total rate of 1.5 pounds per 1000 SF. Cool season cover crops are not permanent erosion control.

  From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pounds per 1000 SF. ertilizer shall be water soluble with an analysis of 15-15-15 to be applied once lanting and once during the period of establishment at a rate of  $\kappa$  pound  $\kappa$  200 SF.
- romulch shall comply with Table 1, below. supporting the grass has grown at least inches high with 95% coverage, provided no bare spots larger than 16 square texis.
- required, native grass seeding shall comply with requirements of the City of 1 Environmental Cinteria Manual. Idining for Temporary Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
100% or any blend of wood, sellulose, straw, and/or cotton plant material (except no mulch shall exceed 30% paper)	70% or greater Wood/Straw 30% or less Paper or Natural Fibers	0-3 months	Moderate slopes; from flat to 3:1	1500 to 200 lbs per acre

- PERMANENT VEGETATIVE STABILIZATION

  1. From September: 15 to March 1, seeding is considered to be temporary stabilization only, if cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall mowed to a height of less than one-half (2) inch and the area shall be re-seeded in accordance with 2, below.

  2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pound per 1000 SF with a punty of 95% with 85% germation. Bermuda grass is a warm season grass and is considered permanent erosion control.

  A. Fertilizer shall be a water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of 1/2 pound per 1000 SF.

ū <u>N</u>

- dromulch shall comply with Table 2, below. If you have a manner that will not erode the planted area shall be imgated or sprinkled in a manner that will not erode the pool, but will sufficiently soak the soil to a depth of six inches. The imgation all occur at daily intervals (immunin) during the first two months. Rainfall corrences of 12 inch or more shall postpone the watering schedule for one week. Imment erosion control shall be acceptable when the grass has grown at least inches high with 95% coverage, provided no bare spots larger than 16 square treast.
- When required, native grass seeding shall comply with requirement of the City of Austin Environmental Criteria Manual. Iching for Permanent Vegetative Stabilization

80% Organic defibrated fibers 10% Tackfier

6 months

Up to 12 months

On slopes up to 1:1 and erosive soil

ne # <u>(512) 964-4682</u>

Owner's representative responsible for plan alterations: GORDON MUIR

Phone # (512) 964-4682

| maintenance: Phone # <u>(5 | 2)</u> 964-4682

Person or firm responsible for tree/natural area protection GORDON MUIR.

contractor shall not dispose of surplus excavated natural from the site without notifying the Planning and Development Rowiew Department at (5.12) 974-2278 at least 46 hours prior with the location and a copy of the permit issued to receive the natural.

ny site preparation work (cleaming, grubbing or excavation). Placement of erosion/sedimentation controls shall be in accordance with the Environmental Criteria placement of erosion/sedimentation controls shall be in accordance with the City of Austin Placement of tree/hatural area protective fencing shall be in accordance with the City of Austin Placement of tree/hatural area protective fencing shall be in accordance with the City of Austin Placement of tree and Natural Area Protection and the approved Grading/free and Natural Area Protection and Protect

instruction conference shall be held on-site with the contractor, design Engineer/permit and Environmental inspector after installation of the encounsedimentation control and all area protection measures and prior to beginning any site preparation work. The controls and yet the Flaming and Development Review Department, (512)974-2276, at least three days remetting date.

uctor is required to inspect the controls and fences at weekly intervals and after significant titls to insure that they are functioning properly. The person(s) responsible for maintenance of ind fences shall immediately make any necessary repairs to damaged aneas. Sit accomplation in just be removed when the depth neaches six (6) inches.

If a complaince by the City, hall roads and waterway crossings constructed for temporally access must be removed, accumulated sediment removed from the waterway and the area to the control of the original grade and revegetated. All land cleaning debns shall be disposed of in

All work must stop if a word in the rock substrate is discovered which is; one square foot in total area; allows an from within the substrate and/or consistently recoves water during any rain event. At this time it is the responsibility of the Project Manager to immediately contact a City of Austin Emporary and Fernanenti Erosion Control: All disturbed areas shall be restored as noted below.

A. All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see Standard Specification Item No. 6015.3(M)]. Do not add topsoil within the critical root zone of existing trees. The topsoil shall be composed of 3 parts of soil mixed with 1 part compost, by volume. The compost shall be composed of 3 parts of soil mixed with 1 part defined by 1,001 specification Item 16(1). The soil shall be locally available native soil that meets the following specifications:

• Shall be free of trash, weads, deletenous materials, nocks, and debris.

• 100% shall pass through a 0.375-inch (%) screen.

• Soil Texture class to be Loam, Sardy Clay Loam, or Sardy Loam in accordance with the USOA texture changle. Soil known locally as 'red death' or Austin Sardy Loam is not an allowable soil. Textural composition shall meet the following criteria:

- Protective fences shall be erected according to City of Austin Standards for Tree Protection. Protective fences shall be installed prior to the start of any site preparation work (clearing, glubbing or grading), and shall be mantianed throughout all phases of the construction project. Erosion and sedimentation control barners shall be installed or maintained in a manner which does not result in soil billed-put within tree drip lines. Protective fences shall surround the trees or group of trees, and will be located at the outermost limit of branches (drip line), for natural areas, protective fences shall follow the limit of Construction line, in order to prevent the following:

  A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials:

- materials:

  B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Arborist.

  C. Wounds to exposed roots, funit or limbs by mechanical equipment:

  Wounds to exposed roots, funit or limbs by mechanical schonge, cement truck cleaning, and fires.

  D. Oher activities detiriemental to trees such as chemical storage, cement truck cleaning, and fires.

  A. Where there is to be an approved grade change, imperimable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed; where perimable paving is to be installed within a tree's displaine, erect the fence at such soft interperimable paving is to be installed within a tree's displaine, erect the fence at the outer limits off the perimable paving is to be installed within a tree's displaine, erect the fence at the outer limits of the perimable paving area (prior to site grading so that this area is signated separately prior to paving installation to minimize root damage):

  C. Where there are severe speace constraints due to tract size, or other special requirements, contact the City Arborist at 512-974-1876 to discuss alternatives.

  P. Where there are severe speace constraints due to tract size, or other special requirements, contact the City Arborist at 512-974-1876 to discuss alternatives.

  SEECAL NOTES: For the protection of natural areas, no exceptions to installing fences at the limit of where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the runk with straped-on plaining to a height of 8 feet (or to the limits of lower branching) in addition to the reduced fencing provided.

  8. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.

  9. Any roots exposed by construction activity shall be privated five the backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes wate

- Intellowing is a sequence of construction shall be used for all development.

  I Temporary erosion and sedimentation controbs are to be installed as indicated on the approved site plan. Install tree protection and initiate tree mitigation measures, (as needed).

  Install natural area protection, (as required) mitigation measures, (as needed).

  Install natural area protection, (as required) mitigation measures, (as needed).

  Plan, Install tree protection, as required install naperation, as (as 12)974-2278, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.

  A Hold preconstruction meeting with environmental inspector.

  I Temporary encoin and sedimentation controbs will be revised, if needed, to comply with City inspectors of accessive, and revised construction sheakille relative to the erosion plan.

  Demolish existing boat dock Construction access from water.

  Deagn boat dock construction are revealetation of the site and installation of landscaping.

  Dupon completion of the site construction and revealetation of a project site, the design engineer shall be plan boat dock construction and star revealetation of the site and installation of landscaping.

  Dupon completion of the site of concurrence to the Flamming & Development Review Department indicating that construction, including revealetation, is complete and in substantial conformity, with the approved plans. After receiving this letter, a final inspection may be sent conducted by the City Inspector, enronce the temporary erosion and section and with approval from the City Inspector and with approval of the controls.

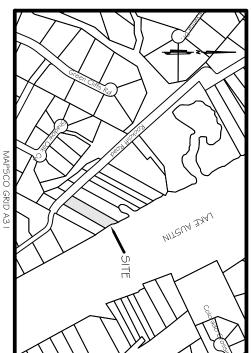
# 1404 ROCKCLIFF ROAL

DESCRIPTION

TOTAL # SHEETS IN PLAN SET

TOTAL SITE IMP. COVER (SQ. FT.)%

REVISIONS / CORRECTIONS



- shall be protected during construction with

0

- The follows

All responsibility for the adequacy of these plans remain with the engineer who prepared them. In approxing these plans, the City of Austin must rely upon the adequacy of the work of the design engineer

## VICINITY MAP

will be Aerated and Provided Nutrie

As a condition of final acceptance of the site, and in conformance with Environmental Criteria Manual section 3.5.4 - All preserved threes within the limits of construction will be Aeristed and provided with Supplemental Nutrients per the following guidelines. Macro and MicroNutrients are required. Himateriunitents solutions with mycorrhizae components are highly recommended. These solutions are commonly utilized to provide renedation for trees affected by construction. Materials and methods are to be approved by the City Arborat (5.12974-1876 prior to application. The owner or general contractor shall select a fertilization contractor and insure coordination with the City Arborat Phone. (5.12974-1876.

Arbonst Pnor to application fax # (5) (2)974-3010. Applicants may also specify soil injection of Dogay X-L injecto 32-7-7 or equivalent at recommended rates. Construction which will be completed in less the 90 days should use materials at & recommended rates. Alternative organic fertilizer materials are acceptal when approved by the City Arbonst. Within 7 days after fertilization is performed, the contractor is provide documentation of the work performed to the City Arbonst. Planning and Development Revi Department P.O. Box 10&B, Austin, Texas 78767. This Note should be referenced as item #1 in the Service of Constitutions.

- This project is not located over the Edwards Aquifer recharge zone.

  Dead restrictions or restrictive coverants are applicable to this property.

  Dead restrictions or restrictive coverants are applicable to this property.

  A business or living a quarter may not be constructed on a pier or similar structure extending into or above late Austin, except under a license approximate by the council.

  Contractor to verify utility locations and ground and flow line elevations before construction.

  Environmental inspection has the authority to add and/or modify erosion/secolimentation controls on site to keep project in-compliance with the City of Austin Mickes and Regulations.

  Approval of these plans by the City of Austin indicates compliance with applicable City regulations only.

  Approval by other government entries may be required prior to the start of construction. The applicant is responsible for determining what additional approvals may be necessary.

- Site Plan Release Notes:

  The following site plan release notes are included in accordance with the City of Austin's request. Applicant will comply with all applicable City of Austin requirements.

  All improvements shall be made in accordance with the released site plan. Any additional improvements will require site plan arteridment and approval of the Planning & Development Review Department.

  All signs must comply with requirements of the Land Development Code. (Section 13-2, Article VII)

  Additional electric easements may be required at a later date.

  All existing structures shown to be removed will require a demolition permit from the City of Austin Planning & Development Review Department.

  A development permit must be issued prior to an application for building permit for non-consolidated or Planning.

- niming Commission approved site plans:

  niming Commission approved site plans:

  r dinveway construction: The owner is responsible for all costs for relocation of, or damage to utilities.

  r construction within the right-of-way, a concrete permit is required.

  r the building permit, a signed and sealed letter shall be submitted to the City of Austin, per the right Development Code, 25-12-3 [G-12.4, certifying that the structure is in accordance with ASCE 4, Flood Resistant Design and Construction.

  I work will occur within the limits of construction as shown on the plan, and that no materials or pupment will be delivered to the site from the landward side of this project.

1404 ROCKCLIFF ROAD

AUPPERLE COMPANY

Engineering, Planning & Development Services 2219 Westlake Drive #110, Austin, Texas 78746 512 329-8241

BRUCE S. AUPPERLE 52027 CENS

All disturbed areas shall be restored as noted in erosion control ¢ restoration notes

TERSHED STATUS: This site is located in LAKE AUSTIN watershed, is classified as a WATER SUPPLY RURAL eristed and shall be developed, constructed and maintained in conformance with Chapter 25 of the Land relopment Code.

areas disturbed within the shoreline setback shall be restored in accordance with City of Austin specifications.

vegetation within the shoreline setback area shall be removed before the issuance of a building permit, except hay be required for surveying and testing. Areas cleared for surveying or testing shall be no more than 15: wide and no trees of six inches or more in diameter shall be removed for surveying or testing.

PROJECT ADDRESS: 1404 ROCKCLIFF ROAD, AUSTIN, TX 78746 EGAL DESCRIPTION: ABS 72 SUR I BROWN W Acr 1.020, FLOODPLAIN INFORMATION: This project is within the TOO-year 48453C0435H effective 265EP2008. SMART GROWTH ZONE: Drinking Water Protection Zone

Deed Doc. #2011096222

Texas Board Of Professional Engineers Registration Number F-1994

Release of this application does not constitute a verification of all data, information and calculations supplied the applicant. The dragineer of record is solely responsible for the completeness, accuracy and adequacy higher submittal, whether on not the application is reviewed for Code compliance by City engineers. RELATED PERMIT NUMBERS:

ite Plan subject to City of Austin

lan Sheet List

SITE PLAN, BOAT DOCK ELEVATIONS # PLAN VIEW

Approved By:

COVER SHEET & NOTES

roject Duration Date