CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing.
2. Protective fences shall be erected according to City of Austin Standards for Tree Protection.
3. Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project.
4. Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree drip lines.
5. 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 Limits 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;
   - B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Aborist;
   - C. Wounds to exposed roots, trunk or limbs by mechanical equipment;
   - D. Other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.
6. Exceptions to installing fences at tree drip lines may be permitted in the following cases:
   - A. Where there is to be an approved grade change, impermeable paving surface, tree well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed;
   - B. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimized root damage);
   - C. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building;
   - D. Where there are severe space constraints due to tract size, or other special requirements, contact the City Arborist at 974-1876 to discuss alternatives.

   SPECIAL NOTE: For the protection of natural areas, no exceptions to installing fences at the Limit of Construction line will be permitted.
7. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft (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 pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
10. Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.
11. No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any tree.
12. Pruning to provide clearance for structures, vehicular traffic & equipment shall take place before damage occurs (ripping of branches, etc.).
13. All finished pruning shall be done according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees available on request from the City Arborist).
14. Deviations from the above notes may be considered ordinance violations if there is substantial non-compliance or if a tree sustains damage' as a result.

AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION AREAS

Trees will be aerated and provided nutrients prior to any construction activity. As a condition of final acceptance of the site, and in conformance with ECM Section 3.5.4, all preserved trees within the limits of construction will be aerated and provided with supplemental nutrients per the following guidelines. Macro- and micro-nutrients are required. Humate / nutrient solutions with mycorrhizae components are highly recommended; these solutions are commonly utilized to provide remediation for trees affected by construction. Materials and methods are to be approved by the City Arborist (974-1876) prior to application. Prior to application, the Owner or General Contractor shall select a fertilization contractor and ensure coordination with the City Arborist. Treatment is to commence prior to the beginning of construction activities and again after trhe completion of all construction. Areas to be treated include the entire critical root zone of trees as depicted on the City-approved plans. Trees are to be aerated by water injected into the soil (under pressure via a soil probe at 50-125 psi) or by other methods as approved by WPDR. The proposed nutrient mix specifications need to be provided to and approved by the City Arborist prior to application (FAX: 974-3010). Applicants may also specify soil injection of Doggett X-L Injecto 32-7-7 or equivalent at recommended rates. Construction which will be completed in less than 90 days should use materials at 50% recommended rates. Alternative organic fertilizer materials are acceptable when approved by the City Arborist. Within 7 days after fertilization is performed, the Contractor shall provide documentation of the work performed to the City Aroborist, Watershed Protection and Development Review, PO Box 1088, Austin, TX 78767. This note should be referenced as Item #1 in the Sequence of Construction.

ELECTRIC UTILITY NOTES

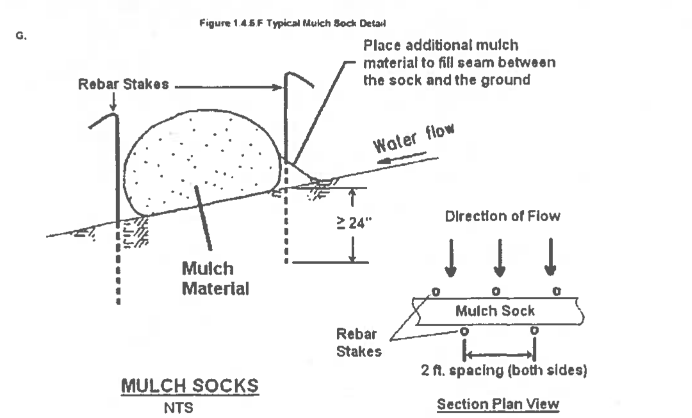
1. Austin Energy has the right to prune and / or remove trees, shrubbery, and other obstructions to the extent necessary to keep the easements clear. Austin Energy will perform all tree work in compliance with City of Austin LDC 25-8.B
2. The Owner / Developer of this subdivision / lot shall provide Austin Energy with any easement and / or access required, in addition to those indicated, for the installation and ongoing maintenance of overhead and underground electric utilities. These easements and / or access are required to provide electric service to the building and will not be located so as to cause the site to be out of compliance with City of Austin LDC 25-8.
3. The Owner shall be responsible for installation of temporary erosion control, revegetation and tree protection. In addition, the Owner shall be responsible for any initial tree pruning and tree removal that is withhin ten feet of the center line of the proposed overhead electrical facilities designed to provide electric service to this project. The Owner shall include Austin Energy's work within the Limits of Construction for this project.
4. The Owner of the property is responsible for maintaining clearances required by the National Electric Safety Code, Occupational Safety and Health Administration (OSHA) regulations, City of Austin rules and regulations, and Texas state laws pertaining to working in close proximity to overhead power lines and equipment. Austin Energy will not render electric service unless required clearances are maintained. All costs incurred because of failure to comply with the required clearances will be charged to the Owner.

GENERAL NOTES

1. Approval of these plans by the City of Austin indicates compliance with applicable City regulations only. Approval by other governmental entities may be required prior to the start of construction. The applicant is responsible for determining what additional approvals may be necessary
2. A business or living quarter may not be constructed on a pier or similar structure extending into or above Lake Austin, except under a license agreement approved by the City Council [Section 25-2-1176(H)].
3. Permanent improvements are prohibited within the shoreline setback area, except for retaining walls, piers, wharves, boathouses, marinas or a driveway to access the structures [LDC 25-2-551(B)(2)].
4. No dredging is proposed for this project. No water or wastewater utilities are proposed.
5. No excavation is proposed on the landward side of the existing bulkhead to ensure compliance with critical root zone requirements

CITY OF AUSTIN - TYPICAL MULCH SOCK DETAIL

G.



MULCH SOCKS
NTS

EROSION CONTROL NOTES - ECM P-1

1. The contractor shall install erosion/sedimentation controls and tree/natural area protective fencing prior to any site preparation work (clearing, grubbing or excavation).
2. The placement of erosion/sedimentation controls shall be in accordance with the Environmental Criteria Manual and the approved Erosion and Sedimentation Control Plan. The COA ESC Plan shall be consulted and used as the basis for a TPDES required SWPPP. If a SWPPP is required, it shall be available for review by the City of Austin Environmental Inspector at all times during construction, including at the Pre-Construction meeting.
3. The Placement of tree/natural area protective fencing shall be in accordance with the City of Austin standard Notes for Tree and Natural Area Protection and the approved Grading/Tree and Natural Area Plan.
4. A pre-construction conference shall be held on-site with the contractor, design Engineer/permit applicant and Environmental Inspector after installation of the erosion/sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The owner or owner's representative shall notify the Planning and Development Review Department, 974-2278, at least three days prior to the meeting date. COA approved ESC Plan and TPDES SWPPP (if required) should be reviewed by COA EV Inspector at this time.
5. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the reviewing Engineer, Environmental Specialist or City Arborist as appropriate. Major revisions must be approved by the Planning and Development Review Department. Minor changes to be made as field revisions to the Erosion and Sedimentation Control Plan may be required by the Environmental Inspector during the course of construction to correct control inadequacies.
6. The contractor is required to provide a certified inspector with either a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater-Inspector (CESSWI) or Certified Inspector of Sedimentation and Erosion Controls (CISEC) certification to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.
7. Prior to final acceptance by the City, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.
8. All work must stop if a void in the rock substrate is discovered which is: one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time it is the responsibility of the Project Manager to immediately contact a City of Austin Environmental Inspector for further investigation.
9. Temporary and Permanent Erosion Control. All disturbed areas shall be restored as noted below.

All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see Standard Specification Item No. 601S.3(A)]. Do not add topsoil within the critical root zone of existing trees. The topsoil shall be composed of 4 parts of soil mixed with 1 part compost, by volume. The compost shall meet the definition of compost as defined by TxDOT Specification Item 161. The soil shall be locally available native soil that meets the following specifications:

* Shall be free of trash, weeds, deleterious materials, rocks, and debris.
* 100% shall pass through a 1.5-inch (38-mm) screen.
* Soil to be a loamy material that meets the requirements of the table below in accordance with the USDA textural triangle. Soil known locally as "red death" is not an allowable soil. Textural composition shall meet the following criteria:

Textural Class	Minimum	Maximum
Clay	5%	50%
Silt	10%	50%
Sand	15%	67%

* An owner/engineer may propose use of onsite salvaged topsoil which does not meet the soil texture class required above by providing a soil analysis and a written statement from a qualified professional in soils, landscape architecture, or agronomy indicating the onsite topsoil will provide an equivalent growth media and specifying what, if any, soil amendments are required.
* Soil amendments shall be worked into the existing onsite topsoil with a disc or tiller to create a well-blended material.

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

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

TEMPORARY VEGETATIVE STABILIZATION:

1. From September 15 to March 1, seeding shall be with cool season cover crops (Wheat at 0.5 pounds per 1000 SF, Oats 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.
2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pounds per 1000 SF.

A. Fertilizer shall be 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.
B. Hydromulch shall comply with Table1, below.
C. Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
D. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

Table 1: Hydromulching for Temporary Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
100% or any blend of wood, cellulose, 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 2000 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 be mowed to a height of less than one-half (½) 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 purity of 95% with 85% germination. 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 ½ pound per 1000 SF.
B. Hydromulch shall comply with Table 2, below.
C. The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at daily intervals (minimum) during the first two months. Rainfall occurrences of ½ inch or more shall postpone the watering schedule for one week.
D. Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
E. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

Table 2: Hydromulching for Permanent Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers 10% Tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2500 to 4000 lbs per acre (see manufacturers recommendations)
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% Tackifier	Up to 12 months	On slopes up to 1:1 and erosive soil conditions	3000 to 4500 lbs per acre (see manufacturers recommendations)

10. Developer Information:

Owner ____ Phone # __________
Address ____
Owner's representative responsible for plan alterations: ____ Phone # __________
Person or firm responsible for erosion/sedimentation control maintenance: ____ Phone # __________
Person or firm responsible for tree/natural area protection Maintenance: ____ Phone # __________

11. The contractor shall not dispose of surplus excavated material from the site without notifying the Planning and Development Review Department at 974-2278 at least 48 hours prior with the location and a copy of the permit issued to receive the material.

SITE LOCATION MAP

CITY OF AUSTIN CONSTRUCTION SEQUENCE - ECM P-4

1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan or subdivision construction plan and in accordance with the Stormwater Pollution Prevention Plan (SWPPP) that is required to be posted on the site. Install tree protection and initiate tree mitigation measures.
2. The Environmental Project Manager or Site Supervisor must contact the Planning and Development Review Department, Environmental Inspection, at 512-974-2278, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.
3. The Environmental Project Manager, and/or Site Supervisor, and/or Designated Responsible Party, and the General Contractor will follow the Storm Water Pollution Prevention Plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with City Inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion plan.
4. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the Storm Water Pollution Prevention Plan (SWPPP) posted on the site.
5. Begin site clearing/construction (or demolition) activities.
6. Remove designated portion of existing metal / concrete stairs (shown hatched).
7. Complete construction and start revegetation of the site and installation of landscaping.
8. Upon completion of the site construction and revegetation of a project site, the design engineer shall submit an engineer's letter of concurrence to the Watershed Protection and Development Review Department indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate City Inspector.
9. After a final inspection has been conducted by the City Inspector and with approval from the City Inspector, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the water quality ponds or controls.

GENERAL NOTES

(1) NOTE: PROJECT SHALL BE CONSTRUCTED IN A SINGLE PHASE

(2) The City of Austin General Construction Notes are incorporated by reference and made a part of this project for applicability in the event that unforeseen disturbance of the land area of the site is necessary to complete the approved construction - Reference: Exhibit III of the Boat Dock Packet (5/24/91) and Silt Fence Detail, Figure 1-8, of the ECM. The Standard Notes for Tree and Natural Area Protection (ECM P-2), as well as ECM P-6, are also incorporated by reference.

(3) This project / site is located in the Taylor Slough South Watershed, is not located in the Edwards Aquifer Recharge Zone, is classified as Water Supply Suburban, and shall be developed in accordance with the City of Austin Land Development Code. The average lake level at this location is 492.80'.

(4) No impervious cover is proposed and no trees will be removed.

(5) All responsibility for the adequacy of these plans remains with the engineer / designer who prepared them. In approving these plans, the City of Austin must rely on the adequacy of the work of the engineer / designer. Release of this application does not constitute a verification of all data, information, and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy, and adequacy of his submittal, whether or not the application is reviewed for code compliance by City engineers.

(6) The Environmental Inspector has the authority to add and/or modify erosion/sedimentation controls on site to keep project in compliance with the City of Austin Rules and Regulations; he will be contacted at 974-2278 prior to construction at least 72 hours in advance.

TRAM CONTRACTOR:	LAKE SERVICES, INC. - WALTER JUDKINS LAKESERVICESINC@YAHOO.COM - 512-653-0730
OWNER:	WILLIAM D & KATHRYN M DARLING 2908 SCENIC DRIVE AUSTIN, TX 78703
ARCHITECT:	GENE LUCAS, ARCHITECT, INC. GENE@GLAINC.COM 3571 FAR WEST BLVD, #177 AUSTIN, TX 78731 512.264.1242
LEGAL DESCRIPTION:	LOT 11, BLOCK D HERMAN BROWN ADDITION, NO. 2, SEC. 4 TRAVIS COUNTY TAX ID #012106051300000 - SF3-NP ZONING
WATERSHED:	WATER SUPPLY SUBURBAN
STREET ADDRESS:	2908 SCENIC DRIVE, AUSTIN, TX 78703
CONSTRUCTION PROPOSED FOR:	AUGUST / SEPTEMBER, 2013
TRACKING# / CASE #:	SP 2013-0295 DS
SUBMITTAL DATE:	AUGUST 1, 2013

PLANNING & DEVELOPMENT REVIEW DEPARTMENT ______ DATE

DEVELOPMENT PERMIT # ______

REVIEWED BY ______ DATE

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF AN APPROXIMATELY 60-LF LONG MOTORIZED TRAM THAT WILL TIE INTO EXISTING STAIRS VIA AN ELEVATED SIDEWALK AS NOTED IN THE APPROVED PLANS.

PROJECT DESCRIPTION

INDEX OF DRAWINGS

SHEET	LABEL	CONTENTS
1	1	COVER SHEET, PROJECT DESCRIPTION
2	2	SITE PLAN - 1"=10'
3	3	INCLINED ELEVATOR / TRAM DETAILS
4	4	INCLINED ELEVATOR / TRAM DETAILS

NUMBER	DESCRIPTION	SHEET	APPROVED	DATE

REVISIONS & CORRECTIONS

REGISTERED ARCHITECT ROBERT E LUCAS 5807 STATE OF TEXAS

RELEASE DATE: 7/23/2013
LIC EXP DATE: 2/28/2014

Gene Lucas, Architect, Inc. TEXAS #5807
52 Riley Road #208
Celebration, FL 34747
phone: (407) 361-8735
mail: Gene@GLAinc.com
web: www.GLAinc.com

Before proceeding with any work or ordering materials, the Contractor and/or subcontractor shall verify all measurements at the building site and shall be responsible for their accuracy.

To the extent known, the Architect certifies that this drawing or plan and related specifications meet all applicable code requirements; discrepancies should be reported by the Contractor directly to the Architect.

2908 Scenic Drive
Inclined Elevator / Tram
Austin, Texas

SP 2013-0295 DS

DATE: 7/23/2013
DRAWN: GENE
SHEET

1

1 OF 3

CEF SETBACK AND CWQZ MITIGATION PLAN

DISTURBED AREAS WILL BE MITIGATED USING 1-GALLON CONTAINERS PLANTED AT 3' OC (30 PLANTS TOTAL) UNDER MESH SIDEWALK AND TRAM - SEE SITE PLAN, THIS SHEET. ALSO MITIGATE AREAS AT REMOVED EXISTING STAIR / WALK USING 1-GALLON CONTAINERS PLANTED AT 3' OC (28 PLANTS TOTAL)

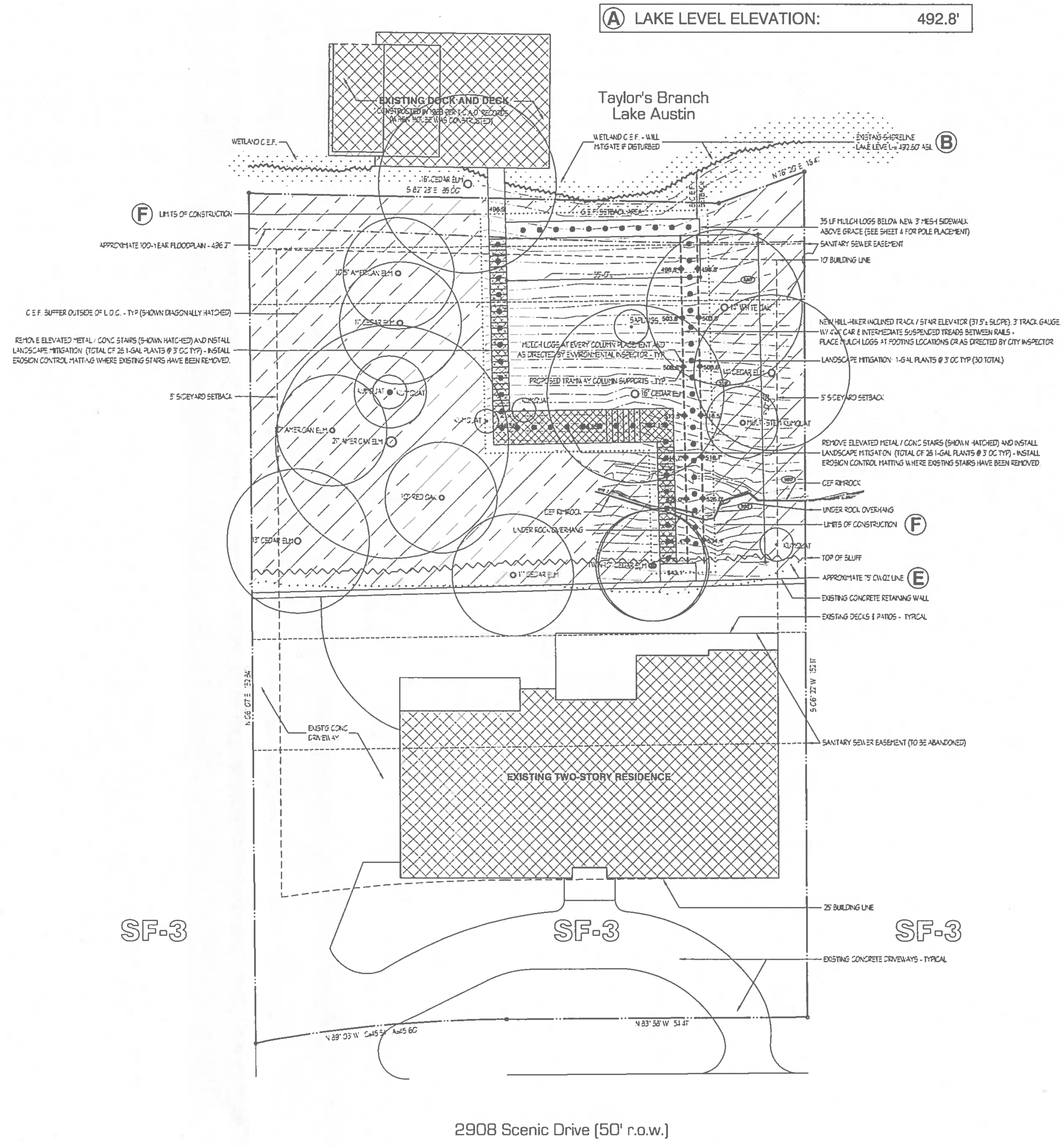
PLANT LIST

INLAND SEA OATS	CHASMANTHIUM KITIFOLIUM
CORAL BERRY	SYMPHONICARPOS ARBICULATUS
TURKS CAP	MALVAVISUS ARBOREUS
SCARLET SAGE	SALVIA COCCINEA
TEXAS SEDGE	CAREX RETROFLEXA

EXISTING VEGETATION FOR SCREENING REQUIRED PER E.C.M. 2.9.1.C

10.5" AMERICAN ELM	11" CEDAR ELM
11" CEDAR ELM	10" CEDAR ELM (TWIN)
10" AMERICAN ELM	16" CEDAR ELM
21" AMERICAN ELM	6 KUMQUAT SHRUBS
10" RED OAK	14" WHITE OAK
13" CEDAR ELM	14" CEDAR ELM

TREE CANOPY AND SHRUBS PREVENT TRAM FROM BEING SEEN FROM EITHER NEIGHBOR'S LOT OR FROM LAKE AUSTIIN. ARTIFICIAL ISLAND IN TAYLOR'S BRANCH BLOCKS SITE FROM LAKE VIEW DUE TO DENSE VEGETATION AND TREE COVERAGE. TRAM WILL ALSO BE PAINTED BROWN TO ASSIST WITH SCREENING.



SITE PLAN 1" = 10'

DRAWING KEYS:
A - LAKE LEVEL ELEVATION
B - EXISTING SHORELINE
C - DOCK BLDG. SETBACKS
D - NAVIGATION LIGHTS
E - 75' CWQZ LINE
F - CONSTRUCTION LIMITS

SITE		TABULATIONS:
EXISTING LOT AREA	(0.3413 ACRES)	14869 SQ FT
EXISTING SHORELINE LENGTH		101.41 LIN FT

NORTH

RELEASE DATE: 7/23/2013
LIC EXP DATE: 2/28/2014

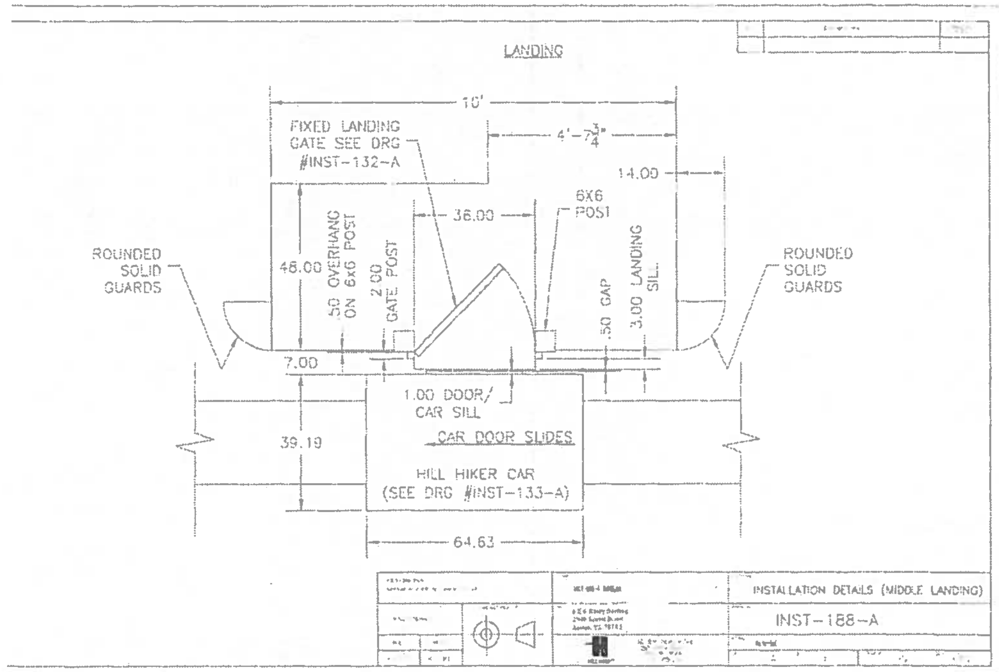
Gene Lucas, Architect, Inc.

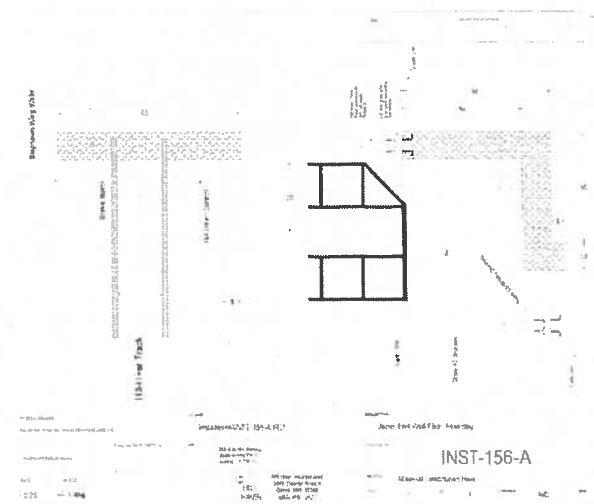
2908 Scenic Drive
Inclined Elevator / Tram
Austin, Texas

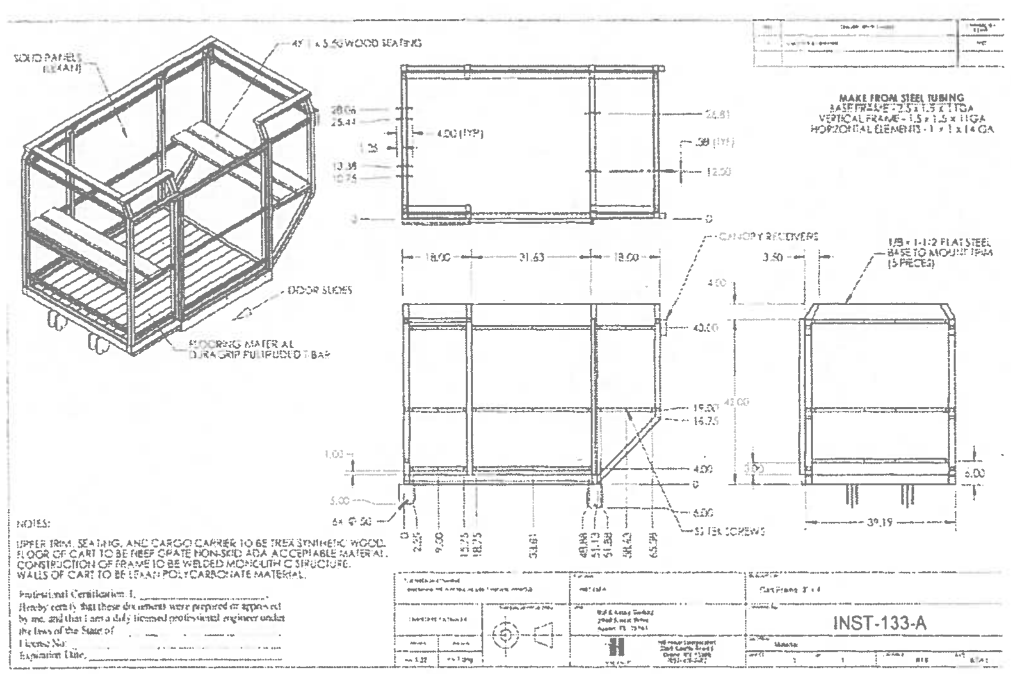
SP 2013-0295 DS

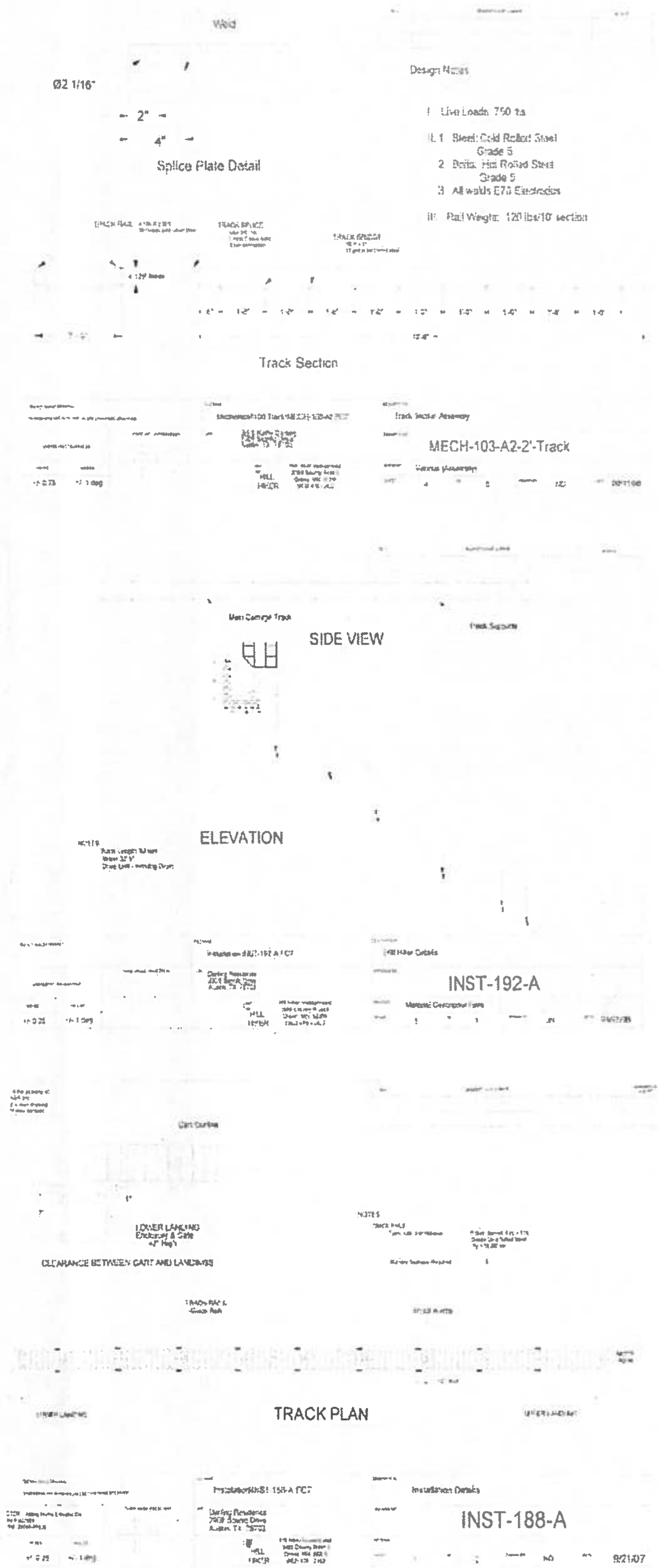
DATE: 7/23/2013
DRAWN: GENE
SHEET 2

2 OF 3









HILL HIKER®

highlandlakes.engineering@yahoo.com
Box 1164, Kingsland, TX 78639
830-637-9584
TX.REG. F-8209

Professional Certification: I, Brad Shaw, hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Texas.
License No. 44268
Expiration Date: 12/31/2013

HILL HIKER® INCLINED ELEVATOR GENERAL EQUIPMENT SPECIFICATIONS
Bill & Kathy Darling, 2908 Scenic Drive, Austin, TX 78703

MATERIAL SPECIFICATIONS
A. All hot rolled and plate steel shall conform to ASTM A-36 Fy=36,000 psi
B. All cold rolled steel shall conform to ASTM A-366 Fy=36,000 psi
C. Machine bolts shall be Grade 5 or better
D. Welding shall use E 70 Electrodes

GENERAL INFORMATION

Driving means	Galvanized Aircraft Cable
Rated Speed	60 fpm
Angle of incline	36°

MOTION AREA

Location of the winding drum drive machine is located at the top of the hill	
Height	Open space
Disconnect switch in sight of Motor	Yes, next to controller at top of hill
Work space for disconnect and Controller	Open space
Machinery workspace	Open space at top of hill

CAR ROPES

Number of Ropes	1
Roping ratio	Winding Drum Drive
Type, size & diameter	7 x 19 5/16 in. Galvanized Aircraft Cable
Rated breaking strength	9,800 lbs.

LOADS

Car and chassis weight	300 lbs
Rated load	750 lbs

TRACK LENGTH 80 ft

CAR

Platform material	Marine grade ADA acceptable Fiber-grate Material
Frame material	Steel
Height of car door	42 in
Outside car width	38.19 in
Outside car length	67.63 in
Construction of car door	Steel frame Polycarbonate Panels

DRIVE SYSTEM

Motor	3HP, 3 Phase, 60 Hz
Electro Magnetic Brake	220V Single Phase
Gear box	3HP 125:1 [illegible]

ELEVATOR CONTROLLER/CONTROLS

Variable Speed AC Motor Drive	3HP Soft Start/Soft Stop Drum Controller is [illegible] Listed Sec. 508A
Call/Send Stations	Top, bottom and on-board car. With keyed security at top & bottom

SAFETY SYSTEM

Limit Switches	Deceleration, directional and terminal switches at top and bottom of run.
Emergency Stop Buttons	Top, bottom and on-board the car
Track System	Captured rail design
Slack Cable System	At motor and on-board car
Over-speed Centrifugal Governor	Located on car

RELEASE DATE: 3/22/2013
LIC EXP DATE: 2/28/2014

Gene Lucas, Architect, Inc.
3571 Far West Boulevard #177
Austin, TX 78731
(512) 264-1242
Gene@GLAinc.com

The design and details contained herein are copyrighted and may not be used, in whole or in part, without explicit permission of the Architect.

Before proceeding with any work or ordering materials, the Contractor and/or subcontractor shall verify all measurements at the building site and shall be responsible for their accuracy.

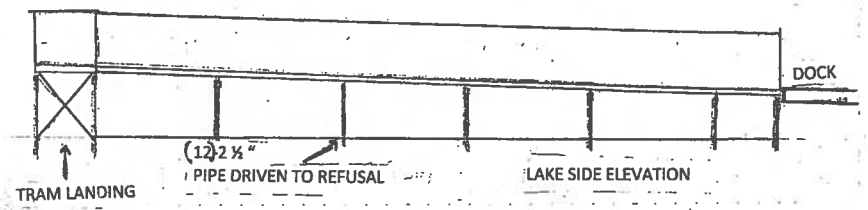
To the extent known, the Architect certifies that this drawing or plan and related specifications meet all applicable code requirements; discrepancies should be reported by the Contractor directly to the Architect.

2908 Scenic Drive
Inclined Elevator / Tram
Austin, Texas

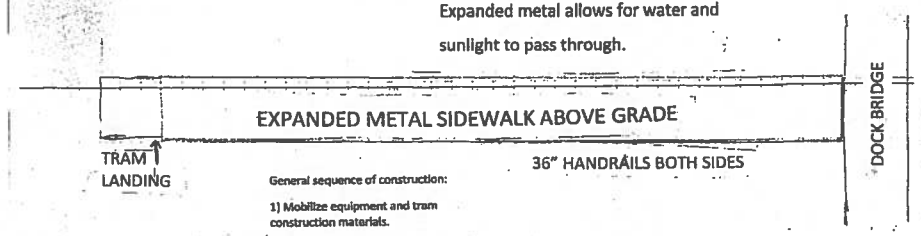
SP 2013-0295 DS

DATE: 3/22/2013
DRAWN: GENE
SHEET
C-2
2 OF 2

3' ELEVATED EXPANDED METAL WALKWAY FROM TRAM TO LANDING DOCK



Expanded metal allows for water and sunlight to pass through.



General sequence of construction:

1) Mobilize equipment and tram construction materials.

2) Clear tram path and install tree protection,

3) Mark boring locations.

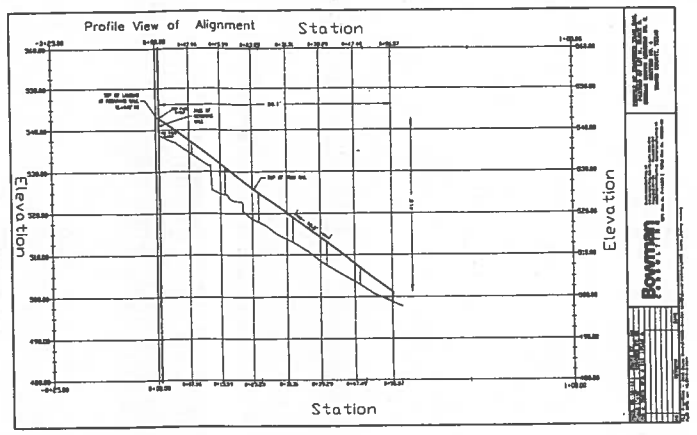
4) Drill post anchor borings, install posts

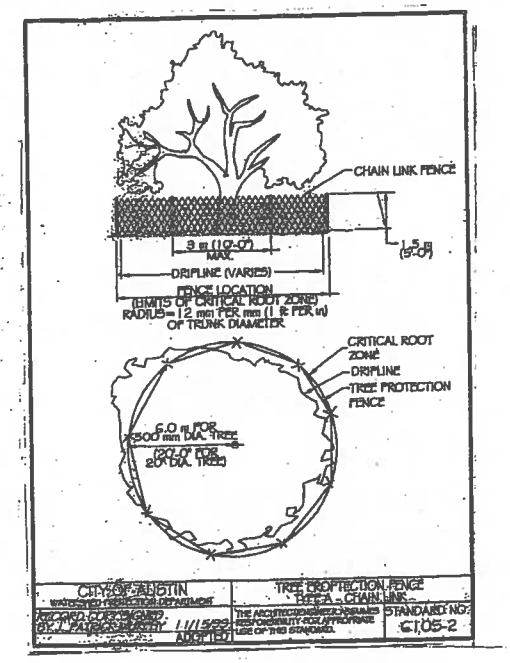
5) Install ESC controls below each set of borings.

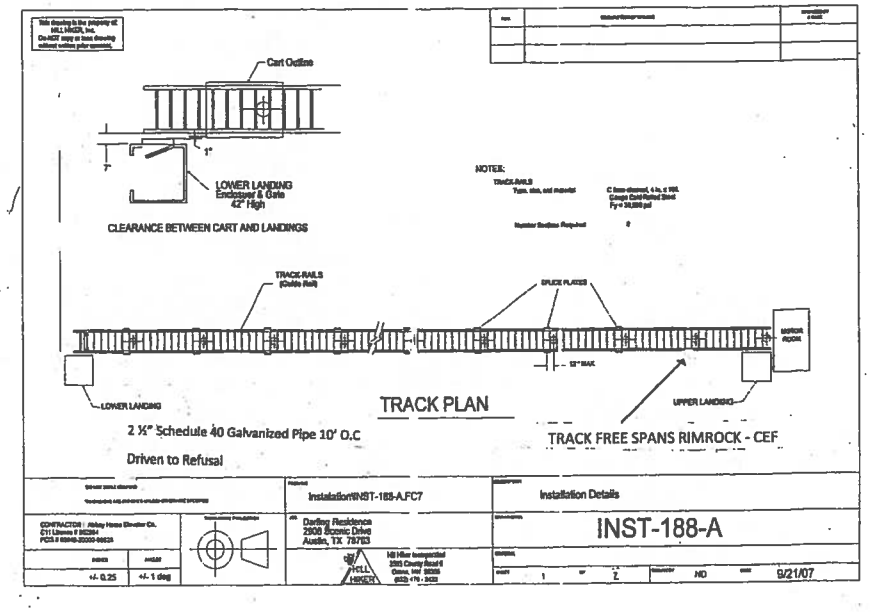
6) Attach tram railings, construct tram

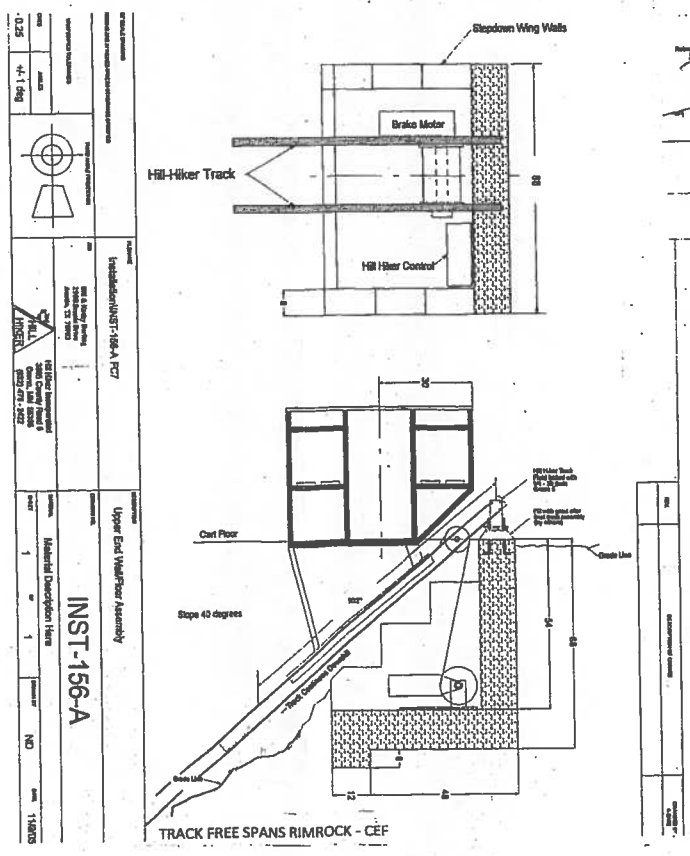
7) Perform tram tests

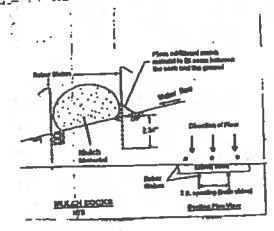
8) Leave ESC in place following tram construction, allow for revegetation around tram.

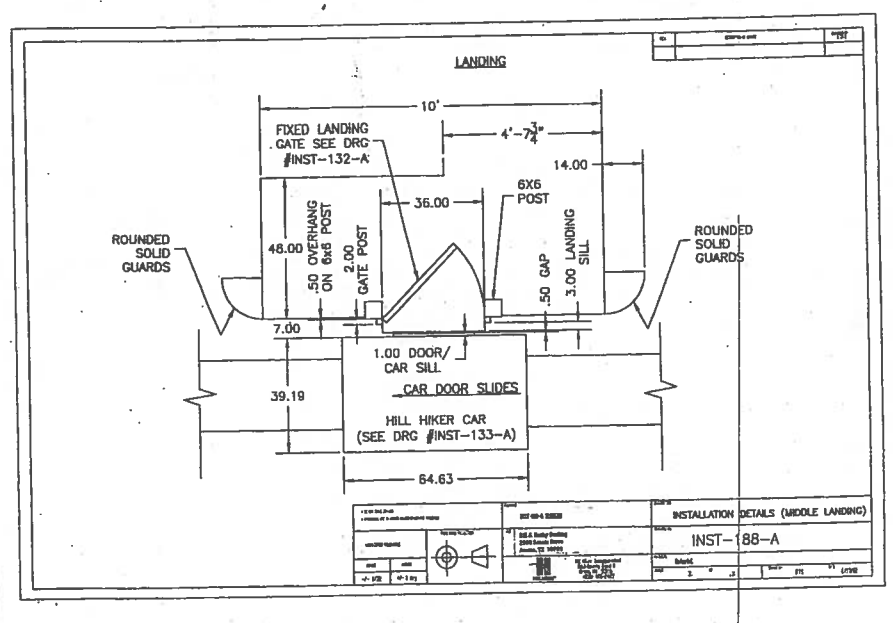












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