

6.0 LINEAR FACILITIES

6.0 Transmission Lines and Other Linear Facilities

The information presented in this chapter is provided only for the purposes of construction and operation of Stanton 2 as discussed and qualified in the Introduction and for the construction and operation of the extension of Alafaya Trail.

RFM-1

6.1 Transmission Lines and Alternate Access Road

6.1.1 Project Introduction

In order to integrate the power from the Stanton 2 into the Orlando Utilities Commission transmission system, a new 230 kV transmission line will be required. The Stanton-Mud Lake 230 kV transmission line will originate at the existing Stanton Energy Center 230 kV Substation and will interconnect into the existing OUC Transmission Line 7-0615 relocation near Mud Lake. The need for new transmission facilities for Stanton 2 is discussed in Section 1A.6.

The new Stanton-Mud Lake Transmission Line will be approximately 14.0 miles in length and will be constructed totally within the existing and previously certified Orlando Utilities Commission Coal Haul Railroad/Utility Corridor from the Stanton Energy Center to its interconnection with existing Transmission Line 7-0615. Figure 6.1-1 shows the routing of the existing Orlando Utilities Commission Coal Haul Railroad/Utility Corridor. The existing corridor varies in width along its route, from 260 feet to 400 feet. The location of the transmission line within the existing corridor is described in Subsection 6.1.2.

The alternate access road, to be built with the new Stanton 2 facilities, will extend north approximately 1 mile from the Bee Line Expressway offramp along the existing railroad to the site boundary. From there, the alternate access road will follow the onsite rail line and join the onsite road system, as described in Subsection 6.1.2.

6.1.2 Corridor Location and Layout

Figure 6.1-1 shows the full length of the proposed transmission line corridor. Figures 6.1-2, 6.1-3, and 6.1-4 show additional details of the proposed Stanton-Mud Lake 230 kV transmission line route. Also shown on Figure 6.1-2 are existing 115 kV or larger transmission lines in the area.

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The alternate access road, to be built with the new Stanton 2 facilities, will extend north approximately 1 mile from the Bee Line Expressway offramp along the existing railroad to the site boundary. From there, the alternate access road will follow the onsite rail line and join the onsite road system, as described in Subsection 6.1.2.

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Figures 6.1-5 through 6.1-11 provide sections of the transmission line location within the Stanton Energy Center site, as well as the existing OUC Railroad/Utility corridor.

As shown on Figure 6.1-5, the existing railroad/utility corridor varies in width from 260 feet to 400 feet along its route from the existing Line 7-0615 to the Bee Line Expressway. The existing railroad right-of-way uses 120 feet of the corridor. In the area south of the Bee Line Expressway, the transmission line will be located approximately 30 feet outside the 120-foot railroad right-of-way. Approximately 90 feet of the existing corridor will be cleared for the new transmission line.

As shown on Figure 6.1-6, the existing corridor is 300 feet in width, extending north of the Bee Line Expressway. In this area, the transmission line will be located approximately 60 feet outside the 120-foot railroad right-of-way in order to avoid an existing distribution line which serves the Orange County Correctional Facility and to avoid lighting structures at the Bee Line Expressway. In this area, approximately 120 feet of corridor will be cleared for the new transmission line. In the vicinity of the existing rail loop, the new transmission line will depart from the railroad and proceed due north to the south plant perimeter fence. In order to minimize the impacts to the woodpecker habitat, the new line will be constructed within a previously cleared plant construction road area as shown on Figure 6.1-7. No additional clearing is anticipated in this area.

After reaching the south plant perimeter fence, the transmission line will turn east and parallel the perimeter fence and the south and east sides of the makeup pond. Figures 6.1-8 and 6.1-9 show the approximate location of the line in this area. As shown on Figure 6.1-8, approximately 45 feet of the 50-foot right-of-way required on the south side of the line has been previously cleared through the area parallel to the plant perimeter access road.

As shown on Figure 6.1-9, approximately 70 feet of the 75 feet required on the south side of the existing distribution line has been previously cleared along the south pond berm. Also, approximately 15 feet of the 75 feet required on the east side of the existing distribution line has been previously cleared along the east pond berm.

At the northeast corner of the makeup pond, the line will turn west and proceed to the existing plant-substation transmission corridor. Figure 6.1-10 shows the proposed location of the new line in this area. It is anticipated that tree

clearing will be required only in the portion of this segment extending from the northwest corner of the makeup pond to the existing plant-substation transmission corridor.

After reaching the existing plant-substation transmission corridor, the new line will turn north and parallel the existing corridor to its termination at the Substation, as shown on Figure 6.1-11.

The alternate access road will extend north approximately one mile from the Bee Line Expressway offramp to the Stanton Energy Center site and will be located within the existing 300-foot wide corridor as shown on Figures 6.1-4, 6.1-6, and 6.1-12. From the southern site boundary, the access road will continue parallel to the existing railroad and tie into the existing plant road system as shown on Figure 3.2-1.

6.1.3 Transmission Line and Road Design Characteristics

The Stanton-Mud Lake 230 kV Transmission Line will be constructed using single-pole tubular steel structures as shown on Figure 6.1-13. The structures will be designed to support two 230 kV circuits; however, as shown on Figure 6.1-14, only one circuit will be installed. The structures will be spaced approximately 800 to 1,100 feet apart along the right-of-way. The transmission line conductors will be 954 kcmil 54/7 ACSR/AW conductors designed for a maximum loading of 444 MVA. One fiber-optic shield wire will be installed on the structures for shielding, relaying, and communications.

The transmission line will be designed to meet the clearance requirements of the National Electrical Safety Code. A minimum ground clearance of 27 feet will be maintained to ground under the maximum design loading condition of the line. Figure 6.1-15 shows the profile of a typical 1,000-foot span. The structures will vary in height along the route, depending on the span lengths and obstacles that must be crossed.

Access to the transmission line right-of-way will be from existing roads where practical. Construction of access roads will be necessary along the segments of the right-of-way which are not accessible. The access roads are necessary, not only for the initial construction, but also for maintenance of the line and right-of-way. Figure 6.1-16 shows a cross section of a typical access road segment. The 15-foot wide driving surface of the road will be composed of crushed aggregate or shell surfacing. Where access roads are necessary through wetlands, corrugated metal

pipe culverts will be installed at regular intervals to maintain equal water level between the sides of the roads.

Figures 6.1-2 through 6.1-4 show where the construction of new transmission line access roads is anticipated along the route. Table 6.1-1 shows the location, number, length and width of each access road segment and the anticipated volume of fill required.

The route of the alternate access road is shown on Figures 3.2-1 and 6.1-12. The alternate access road will be 24 feet in width with two 10-foot asphalt paved lanes and 2-foot shoulders as shown on Figure 6.1-17. The road will be elevated above the 100-year flood elevation by an embankment. Characteristics of the access road route will be similar to the existing railroad route which is discussed in Subsection 3.9.1 of the original SCA. At locations where the access road interrupts natural drainage patterns, culverts or bridge drainage structures will be provided. Wetland and swamp crossings will use precast concrete pile bridge structures in addition to embankment construction. Additional openings will be provided as required for wildlife crossings. A typical alternate access road bridge is shown on Figure 6.1-18. The final location of embankments, drainage, and crossing structures (if required) along with other detailed information will be determined during the final detailed design stage of the project.

6.1.4 Cost Projections

The estimated total cost of the Stanton-Mud Lake 230 kV transmission line is \$9 million. This total cost is itemized in Table 6.1-2.

The estimated total cost of the alternate site access road is \$1.5 million (1991 dollars).

6.1.5 Corridor Selection

Studies of OUC's electric transmission and distribution system showed that a connection from the Stanton Energy Center to the Taft Substation integrated very well with the existing system and was preferable to other possible connections for the addition of Stanton 2. In addition, the construction of the new line will be totally onsite or within the existing certified railroad/utility corridor from the plant site to the point of system connection near Mud Lake. Construction of the alternate access road will also be within the existing certified railroad corridor. Therefore, there will be minimal environmental impacts associated with the line

installation or alternate access road construction. Other available route options would result in greater impacts because of vegetation clearing and construction within wetland areas that would be necessary. Finally, all of the preferred corridor is owned by OUC and no additional acquisition of land will be required.

6.1.6 Sociopolitical Environment of the Corridor Area

The sociopolitical environment for the Stanton Energy Center project, including the railroad/utility corridor, was described in the original SCA. The entire new transmission line and alternate access road will be located either onsite or within the associated railroad/utility corridor. This corridor received certification with regard to land use compatibility (as part of the initial SCA process) on October 20, 1981.

6.1.7 Biophysical Environment of the Corridor Area

6.1.7.1 Land Use/Vegetation.

6.1.7.1.1 Land Use. The planned transmission line and alternate access road will be located onsite or within the existing railroad/utility corridor. The land use associated with the corridor was described in the original SCA. Final certification of the site and associated facility linear corridors for land use compatibility was made on October 20, 1981 and no further certifications for land use will be necessary.

6.1.7.1.2 Vegetation. Most of the railroad/utility corridor in which the transmission line and alternate access road will be constructed has been previously cleared and is regularly maintained. Grasses and weeds dominate within the right-of-way. Minor additional clearing will be necessary along the transmission line within the railroad/utility corridor and on the site itself.

Prior to the construction of the railroad, a thorough vegetation survey was made of the corridor and the results of the survey were included in Subsection 2.7.7 of the original SCA. Vegetative communities that occurred within the corridor before the railroad was constructed were shown on Figure 2.7-7 of the original SCA. No threatened, endangered, or rare plant species were found during the survey.

6.1.7.2 Affected Water and Wetlands. No surface water will be significantly impacted by the construction of the planned transmission line and alternate access road.

As shown in Table 6.1-1, approximately 20.3 acres of wetlands will be impacted by clearing for the transmission line. The areas that will be affected range from 0.1 to 1.9 acres. These wetlands are in the segment of the corridor between the site boundary and the interconnection with the existing transmission line near Mud Lake. Wetlands in the area are classified as "621, Cypress" by the Florida Land Use, Cover, and Forms Classification System dated September 1985. Surface waters associated with these wetlands are classified as Class III in accordance with FAC 17-302.600.

Approximately 3.7 acres of wetlands will be filled during the construction of transmission line access roads as shown in Table 6.1-1. Approximately 2.5 acres of wetlands will also be impacted by the construction of the alternate site access road from the Bee Line Expressway offramp to the connection point with the onsite road system. The total estimated fill for the alternate site access road and transmission line access road construction in the preliminarily identified wetland areas (Figure 6.1-4) is 30,000 and 13,400 cubic yards, respectively. The quantity of fill material to be placed below the ordinary high water level in these areas will be determined later, as design proceeds. In addition, some dredging will be necessary in wetlands for the placement of foundation structures for transmission line towers. Table 6.1-1 shows that 220 cubic yards of dredged material must be removed in wetlands in order to construct tower foundations.

Drainage patterns should not be significantly affected by the construction and operation of the transmission line and alternate access road. The line and road will be constructed within the existing railroad corridor right-of-way. In affected wetland areas, culverts and bridge structures will be installed where appropriate to maintain flow between segments of wetlands. Surface water hydrology is described in Subsection 2.5.1 and the onsite drainage system in Section 3.10 of the original SCA. Modifications to accommodate existing drainage patterns along the alternate access road are described in Subsection 6.1.3 of this application.

6.1.7.3 Ecology. The ecology of the Stanton Energy Center project area and the railroad corridor were addressed in Section 2.7 of the original SCA.

6.1.7.4 Other Environmental Features. There are no other environmental features applicable to the proposed transmission line and alternate access road.

6.1.8 Effect of Right-of-Way Preparation and Transmission Line

Construction

6.1.8.1 Construction Techniques. Several distinct tasks will be required for construction of the proposed transmission line and alternate access road. These will include surveying, clearing, road construction, foundation construction, structure assembly and erection, conductor and shield wire installation, and cleanup. The tasks will occur in the following sequence and will be separated, in time, by several days to several months.

The right-of-way center line and edges and structure sites are established prior to construction. This task is usually performed by three- to five-person survey teams and requires minimum clearing for a "line of sight." Clearing and road construction usually run concurrently because the requirements for heavy equipment are the same. Road construction is necessary where the structure site would otherwise be under water or the terrain will not support the heavy equipment to be used in subsequent phases of work.

In wetlands connected to waters-of-the-state, chain saws and/or light, tracked shear machines will be used for clearing, and fill material will be hauled in for the construction of roads. Stumps and root mat will be left in place except for the area where the structure foundation is to be installed. There will be no need to demuck.

In areas outside of wetlands, the right-of-way will be cleared by heavy tracked machines, usually bulldozers, and dressed to facilitate future maintenance using wheeled tractors with "bush-hog" mowers. Stumps and cuttings will be piled and burned. The method will depend on OUC preferences at the time, requirements of the Division of Forestry, and other conditions at the time.

Fill material for access roads is hauled in by truck and spread with bulldozers to obtain suitable compaction. Culverts are installed as the road construction progresses to maintain drainage and water flow.

Construction of concrete foundations makes up the second phase of construction. Equipment required for foundation construction consists of an augering machine mounted on a tracked or all-wheel-drive vehicle, "ready-mix" concrete trucks, water trucks, pile driving equipment, and medium-sized (25- to 75-ton) tracked cranes. Each work group will have a bulldozer available to assist in the installation. Tractors, trailers, and light vehicles are used to transport material and personnel.

The next series of tasks consist of hauling material, assembly of structures, erection of structures, and installation of the conductors. The structures and conductor hardware will probably be hauled to the site by tractors and trailers, then offloaded with medium-sized truck cranes or all-wheeled cranes. Medium-sized (1-1/2 to 2-ton) all-wheel-drive trucks are used to transport personnel and tools. Medium-sized trucks or all-wheel-drive cranes are required to move structure components and place the structure for erection. The most common method of erecting the structure is with heavy tracked cranes. A work group will normally place the entire structure in one "pick." The boom "reach" will be sufficient to work the tallest structures. Insulators and roller blocks are installed during or immediately following this task. The location of the worksite for installation of conductors and shield wires is determined by the length of conductor on a reel or the line configuration. The basic equipment used for conductor installation is a matched set of machines (puller and tensioner) to pull the conductor and static wires through the rollers to the receiving end and, at the same time, to retard the conductor or maintain light tension at the sending end. The conductors and shield wires are hauled to the sending end on tractors and trailers. A variety of other equipment (radio-equipped pickups to medium-sized cranes and bulldozers) is required at both ends to complete the pull. The puller and tensioner then "leap-frog" as consecutive sections are completed. A bulldozer with a three- or four-drum winch is ordinarily used at the receiving ends to bring the conductors to final tension. The rollers are then removed and the conductors are permanently affixed ("clipped") to each structure. The time required to complete a "pull" averages less than a week.

Finally, at each "heavy-angle" or "dead-end" structure (where the wire has been stopped and/or started), it is necessary to install short pieces of conductor between the ends in order to electrically connect the conductors. Structures, fences, and gates are grounded during this phase of construction and before the line is energized.

Soil erosion is not a problem with proper design and maintenance. Consequently, each contractor will be required to have sufficient equipment and personnel to maintain roads and to keep the right-of-way clear of debris and waste materials. Roads will be constructed with slight crowns and slopes. In addition, culverts will be placed at necessary locations to allow for proper sheet flow and prevent road washouts. Turbidity screens will be used as required to maintain

water quality. Roads, pastures, lawns, and open areas will be maintained throughout the construction period. If necessary, restoration, including grading the soil and replanting or reseeding disturbed areas of the construction site(s), will be accomplished prior to the end of the construction phase of the project.

6.1.8.2 Impacts on Waterbodies and Uses. The proposed transmission line, associated construction and maintenance road, and alternate site access road are located more than a mile from the Econlockhatchee and Little Econlockhatchee Rivers and will have no impacts on them. These proposed linear facilities will have some impact on isolated wetland areas in the existing railroad corridor. Minor wetland dredge and fill will be necessary in a few locations in order to construct transmission pole foundations. The placement of fill will also be necessary in a number of locations associated with the construction of access and maintenance roads. The expected locations of fill placement are shown on Figures 6.1-2, 6.1-3, and 6.1-4. In addition, estimates of dredging, fill, and clearing necessary for the transmission line and roads are included in Table 6.1-1. Cross sections showing transmission line and road locations within the existing corridor are shown on Figures 6.1-5 through 6.1-11. Road and typical bridge sections are shown on Figures 6.1-16 through 6.1-18. The Joint Application form (DER Form 17-1.203[1]) is included in Subsection 10.6.2.

This application includes all currently available preliminary design information regarding the wetland impacts of the proposed transmission line and access roads. Paragraphs B and C of Section 6.1.8.2 of DER Form 17-1.211(1) allow submittal of detailed wetland impact information either during the certification process or post-certification for later review. The additional information is being developed and is expected to be available by approximately mid-June 1991 during the certification process.

6.1.8.3 Solid Wastes. Solid wastes generated during construction of the proposed transmission line and alternate access road will consist of construction material debris and cleared vegetation. Cleared vegetation and other combustible materials will be burned on the right-of-way, following applicable regulations regarding open burning. Merchantable timber may be removed by the landowner or tenant. Noncombustible materials will be collected and disposed of at local landfills or other approved disposal sites.

6.1.8.4 Changes to Vegetation, Wildlife, and Aquatic Life. Approximately 30 acres of upland habitat will be cleared for the construction of the proposed

transmission line and associated access roads. All of these areas are within the existing railroad corridor and have been previously disturbed. Construction within the railroad corridor is expected to have very minimal impact on wildlife.

In the vicinity of the existing rail loop, located in the southwest portion of the Stanton Energy Center site, the new transmission line will be constructed within a previously cleared plant construction road to minimize any impacts to the red-cockaded woodpecker foraging habitat (Figure 6.1-7). At the south perimeter of the developed plant site, the transmission line will proceed east and parallel the perimeter fence in the vicinity of the makeup water holding pond (Figures 6.1-8 and 6.1-9). No tree clearing is planned in this area of red-cockaded woodpecker habitat. No significant impacts on the woodpeckers are anticipated.

As shown in Table 6.1-1, an estimated 19.7 acres of wetland vegetation will be cleared, and 4.2 acres of wetland filled. Although these areas have been previously disturbed by construction activities associated with the rail line installation, there will be some loss of wildlife habitat. These areas are used by a variety of birds, small mammals, amphibians, and reptiles. The proposed transmission line has been routed to minimize impacts on wetlands as much as possible by confining construction to areas previously disturbed.

6.1.8.5 Impact on Human Population. The Stanton Energy Center, including the previously certified railroad/utility corridor, is located in a sparsely populated area and impacts on humans during Stanton 2 construction will be minimal. There will be some increase in noise levels during construction, but most of the noise impacts will be confined to the Stanton Energy Center plant site.

Because of the relatively remote location of the construction site, there should be little, if any, noticeable effect on traffic as the result of the movement of materials and workers.

6.1.8.6 Impact on Regional Scenic, Cultural, and Natural Landmarks. There are no regional scenic, cultural, or natural landmarks that will be affected by the proposed transmission line or alternate access road.

6.1.8.7 Impact on Archaeological and Historic Sites. There are no archaeological or historic sites within the planned transmission line corridor or alternate access road. During an archaeological survey of the railroad corridor in 1981, an Indian campsite was identified within the proposed corridor (Site Number 80 or 391) near Wewahootee Road. The railroad was realigned to the south to miss the archaeological site. The State Historic Preservation Officer cleared the project

for construction following the realignment. Details of the archaeological survey are contained in the original SCA.

6.1.9 Post-Construction Impacts and Effects of Maintenance

6.1.9.1 Maintenance Techniques. Orlando Utilities Commission will inspect and maintain its transmission line and line right-of-way by the following activities.

- o Monthly inspection on foot or by vehicle.
- o Emergency patrol by vehicle and/or aerial in the event of damage to the line by severe weather, etc.
- o Use of farm type tractors with mowing and brush-cutting attachment to maintain the initial clearing of vegetation at intervals of one, two, or more years, as necessary.
- o Application of herbicides, as required, in areas where the soil remains too wet for vegetation to be maintained by mechanical means.

Herbicides may be used throughout the right-of-way. Applications will include only those registered by the US Environmental Protection Agency and which have the required state approval. Application rates and concentrations will be in accordance with the label directions. In most cases, the frequency of application will be one treatment every three to five years. Only in a very unusual situation would treatment be required more frequently.

Burning is not normally required for maintenance of the transmission line right-of-way. When extensive reclearing of the right-of-way is necessary, as during construction, limited burning of cleared vegetation may occur. Since the cleared right-of-way itself acts as a fire lane, no fire lanes are anticipated to be necessary, and Orlando Utilities Commission has no plans to create them within the right-of-way.

The alternate access road to the Stanton Energy Center site will require periodic inspection, maintenance, cleaning, and occasional repair work. These activities will help to maintain the serviceability and safety and to prolong the service life of the access road. Inspection of the pavement structure (asphalt, base, and drainage system) will be done on a seasonal basis and also after any severe weather. Early detection and prompt repair of any of the damaged portions of the structure will be a part of the regular inspection and maintenance program.

6.1.9.2 Multiple Uses. There are no multiple uses planned for the existing railroad/transmission line corridor. The alternate access road will provide

restricted or emergency site access for plant operating personnel and delivery of operating materials.

6.1.9.3 Changes in Species Populations. No significant long-term changes in the populations of threatened, endangered, or species of special concern within the transmission line or alternate access road rights-of-way are expected as the result of maintenance practices. Only about 14 miles of new transmission line and 1 mile of alternate access road will be constructed within the existing railroad/utility corridor.

6.1.9.4 Effects of Public Access. Any new transmission line access roads will have controlled entry (locked gates) and there should be no impacts on any existing wildlife from increased public exposure. Traffic on the alternate access road will be controlled by gates at the fenced site boundary.

6.1.10 Other Post-Construction Effects

6.1.10.1 Electric and Magnetic Fields. Figure 6.1-19 shows the electric and magnetic field levels anticipated for the line for the 260-foot corridor under maximum loading conditions (444 MVA). Also shown are the state limits for both electric and magnetic fields. As previously discussed, the existing railroad/utility corridor varies in width from 260 feet to 400 feet. The 260-foot corridor is shown, as this would represent the worst case. The electric and magnetic field levels would be lower at the edge of the 400-foot right-of-way. As shown, the expected levels anticipated for the line are significantly lower than the state limits.

6.1.10.2 Audible Noise. The energy that produces sound is usually expressed in units of decibels (dB). The perception of sound varies with the frequency of sound. In order to refine the measurement of sound to approximate human perception, weighting networks have been developed. Among these networks is the A-weighted decibel system (dBA), which simulates human hearing response at low sound pressure levels and discriminates among frequencies below 500 Hz. A-weighting has been found to effectively evaluate subjective hearing response as well as those frequencies responsible for harmful hearing effects (Goldstein, 1979). Figure 6.1-20 shows the relative sound levels in dBA of several common sources.

The audible noise associated with a transmission line is generated by either corona created around the conductors or gap type discharges between energized parts of the line. The proposed transmission line will use hardware which will

minimize gap noise. Foul or wet weather produces the higher noise levels; however, the background noise from foul weather usually masks the transmission line noise.

The proposed 230 kV transmission line will have an audible noise level at the edge of the 260-foot right-of-way of approximately 45 dBA with a wet conductor condition.

The fair weather audible noise from the proposed transmission line will be approximately 20 dBA at the edge of the 260-foot right-of-way. While the human ear can perceive a noise of 10 dBA above ambient, the ambient noise level in rural, semirural, or urban areas (typically 30 to 50 dBA) will essentially mask the audible noise from the transmission lines.

6.1.10.3 Radio and Television Interference (RI and TVI). Like audible noise, RI and TVI can be produced by either gap type discharges or corona discharges. However, calculations and measurements that describe RI and TVI are not converted to A-weighted values (dBA). RI affects AM reception; however, FM reception is not affected. The predicted RI level at the edge of the right-of-way during fair weather conditions will be approximately 36.2 dB. Foul weather RI is generally 17 to 24 dB higher than fair weather values. The predicted TVI at the edge of the right-of-way during fair weather conditions will be less than the ambient level. During foul weather, the predicted TVI will be approximately 18.57 dB.

Design and operating experiences to date with other similar lines in the Orlando Utilities Commission system indicate that no impact to radio and television reception is anticipated. There are no residences in close proximity to the existing railroad/utility corridor.

6.1.10.4 Ozone. During periods of very heavy rain, ozone will be produced by the line. The estimated ozone concentration is 0.584 parts per billion at ground level during a 1-inch per hour rainfall. This is well below the national ambient air quality standard for ozone of 0.12 parts per million.

Table 6.1-1

**ORLANDO UTILITIES COMMISSION
STANTON - MUD LAKE 230 KV TRANSMISSION LINE
SUMMARY OF DESIGN DATA AND LAND USE**

LOCATION		ACCESS ROAD SUMMARY					CLEARING SUMMARY						FOUNDATION
FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	SPAN (FT)	LENGTH (FT)	FILL (CU YD)	IMPACT (AC)	R/W WIDTH (FT) (1)	CITRUS (FT)	UNFORESTED UPLAND (FT)	FORESTED UPLAND (FT)	FORESTED UPLAND CLEARING (AC)	WETLAND (FT)	WETLAND CLEARING (AC) (2)	EXCAVATION IN WETLAND (CU YD)
101	102	930	0	0.0	0.00	120	0	465	465	0.98	0	0.00	0.0
102	103	950	0	0.0	0.00	120	0	475	475	0.98	0	0.00	0.0
103	104	950	0	0.0	0.00	120	0	475	475	0.98	0	0.00	0.0
104	105	950	0	0.0	0.00	120	0	475	475	0.98	0	0.00	0.0
105	106	960	800	1866.7	0.50	120	0	0	160	0.33	800	1.65	0.0
106	107	900	0	0.0	0.00	120	0	675	225	0.46	0	0.00	0.0
107	108	850	0	0.0	0.00	120	0	650	200	0.41	0	0.00	0.0
108	109	830	0	0.0	0.00	120	0	630	200	0.41	0	0.00	0.0
109	110	800	0	0.0	0.00	120	500	150	150	0.31	0	0.00	0.0
110	111	940	0	0.0	0.00	120	940	0	0	0.00	0	0.00	0.0
111	112	940	0	0.0	0.00	120	200	740	0	0.00	0	0.00	0.0
112	113	940	0	0.0	0.00	120	0	940	0	0.00	0	0.00	0.0
113	114	940	0	0.0	0.00	120	0	940	0	0.00	0	0.00	0.0
114	115	940	250	583.3	0.15	120	0	690	0	0.00	250	0.52	0.0
115	116	940	220	513.3	0.14	120	0	720	0	0.00	220	0.45	0.0
116	117	940	0	0.0	0.00	120	0	940	0	0.00	0	0.00	0.0
117	118	940	150	350.0	0.09	120	0	940	0	0.00	0	0.00	0.0
118	119	900	0	0.0	0.00	120	0	900	0	0.00	0	0.00	0.0
119	120	900	0	0.0	0.00	120	0	900	0	0.00	0	0.00	0.0
120	121	900	0	0.0	0.00	120	0	900	0	0.00	0	0.00	0.0
121	122	900	200	466.7	0.12	120	0	700	0	0.00	200	0.41	0.0
122	123	900	150	350.0	0.09	120	0	750	0	0.00	150	0.31	0.0
123	124	900	0	0.0	0.00	120	0	900	0	0.00	0	0.00	0.0
124	125	900	0	0.0	0.00	120	0	900	0	0.00	0	0.00	0.0
125	126	900	0	0.0	0.00	120	0	900	0	0.00	100	0.21	0.0
126	127	900	0	0.0	0.00	120	0	800	0	0.00	0	0.00	0.0
127	128	800	200	466.7	0.12	120	0	600	0	0.00	200	0.41	0.0
128	129	800	0	0.0	0.00	120	0	750	0	0.00	50	0.10	31.4
129	130	1000	50	116.7	0.03	120	0	100	0	0.00	900	1.86	0.0
130	131	1000	0	0.0	0.00	120	0	950	50	0.10	0	0.00	0.0
131	132	1000	0	0.0	0.00	120	0	200	600	1.24	200	0.41	0.0
132	133	1000	0	0.0	0.00	120	0	1000	0	0.00	0	0.00	0.0
133	134	1000	400	933.3	0.25	120	0	450	0	0.00	550	1.14	31.4

(1) TOTAL WIDTH INCLUDING PORTIONS THAT MAY EXTEND OVER OTHER RIGHTS-OF-WAY.

(2) WETLAND CLEARING ACREAGE INCLUDES ACCESS ROAD IMPACT AREA.

Table 6.1-1 (continued)

**ORLANDO UTILITIES COMMISSION
STANTON - MUD LAKE 230 KV TRANSMISSION LINE
SUMMARY OF DESIGN DATA AND LAND USE**

LOCATION		ACCESS ROAD SUMMARY					CLEARING SUMMARY						FOUNDATION
FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	SPAN (FT)	LENGTH (FT)	FILL (CU YD)	IMPACT (AC)	R/W WIDTH (FT) (1)	CITRUS (FT)	UNFORESTED UPLAND (FT)	FORESTED UPLAND (FT)	FORESTED UPLAND CLEARING (AC)	WETLAND (FT)	WETLAND CLEARING (AC) (2)	EXCAVATION IN WETLAND (CU YD)
134	135	920	50	116.7	0.03	120	0	770	0	0.00	100	0.21	0.0
135	136	920	0	0.0	0.00	120	0	920	0	0.00	0	0.00	0.0
136	137	910	350	816.7	0.22	120	0	610	0	0.00	300	0.62	31.4
137	138	910	0	0.0	0.00	120	0	560	0	0.00	350	0.72	0.0
138	139	910	0	0.0	0.00	120	0	910	0	0.00	0	0.00	0.0
139	140	910	0	0.0	0.00	120	0	910	0	0.00	0	0.00	0.0
140	141	910	0	0.0	0.00	120	0	910	0	0.00	0	0.00	0.0
141	142	910	0	0.0	0.00	120	0	910	0	0.00	0	0.00	0.0
142	143	910	350	816.7	0.22	120	0	0	560	1.18	350	0.72	31.4
143	144	910	0	0.0	0.00	120	0	0	160	0.33	750	1.55	31.4
144	145	910	0	0.0	0.00	120	0	0	910	1.88	0	0.00	0.0
145	146	750	0	0.0	0.00	120	0	100	300	0.62	350	0.72	0.0
146	147	910	0	0.0	0.00	120	0	810	100	0.21	0	0.00	0.0
147	148	910	0	0.0	0.00	120	0	455	455	0.94	0	0.00	0.0
148	149	840	0	0.0	0.00	120	0	500	340	0.70	0	0.00	0.0
149	150	840	0	0.0	0.00	120	0	600	240	0.50	0	0.00	0.0
150	151	840	0	0.0	0.00	120	0	500	340	0.70	0	0.00	0.0
151	152	830	0	0.0	0.00	120	0	200	630	1.30	0	0.00	0.0
152	153	800	0	0.0	0.00	120	0	300	500	1.03	0	0.00	0.0
153	154	950	0	0.0	0.00	120	0	0	950	1.96	0	0.00	0.0
154	155	960	400	933.3	0.25	120	0	0	560	1.16	400	0.83	0.0
155	156	960	0	0.0	0.00	120	0	0	710	1.47	250	0.52	0.0
156	157	960	0	0.0	0.00	120	0	0	610	1.26	350	0.72	0.0
157	158	960	0	0.0	0.00	120	0	760	200	0.41	0	0.00	0.0
158	159	1000	0	0.0	0.00	120	0	1000	0	0.00	0	0.00	0.0
159	160	870	0	0.0	0.00	120	0	870	0	0.00	0	0.00	0.0
160	161	1050	0	0.0	0.00	120	0	1050	0	0.00	0	0.00	0.0
161	162	750	0	0.0	0.00	120	0	325	325	0.90	100	0.28	0.0
162	163	900	0	0.0	0.00	120	0	100	450	1.24	350	0.96	0.0
163	164	900	0	0.0	0.00	120	0	400	425	1.17	75	0.21	0.0
164	165	850	0	0.0	0.00	120	0	300	350	0.96	200	0.55	0.0
165	166	850	0	0.0	0.00	120	0	200	250	0.69	450	1.24	0.0

(1) TOTAL WIDTH INCLUDING PORTIONS THAT MAY EXTEND OVER OTHER RIGHTS-OF-WAY.

(2) WETLAND CLEARING ACREAGE INCLUDES ACCESS ROAD IMPACT AREA.

Table 6.1-1 (continued)
ORLANDO UTILITIES COMMISSION
STANTON - MUD LAKE 230 KV TRANSMISSION LINE
SUMMARY OF DESIGN DATA AND LAND USE

LOCATION		ACCESS ROAD SUMMARY					CLEARING SUMMARY						FOUNDATION
FROM	TO	SPAN (FT)	LENGTH (FT)	FILL (CU YD)	IMPACT (AC)	R/W WIDTH (FT) (1)	CITRUS (FT)	UNFORESTED UPLAND (FT)	FORESTED UPLAND (FT)	FORESTED	WETLAND	WETLAND	FOUNDATION
STRUCTURE NUMBER	STRUCTURE NUMBER									UPLAND CLEARING (AC)			
166	167	850	0	0.0	0.00	120	0	200	200	0.55	450	1.24	0.0
167	168	800	0	0.0	0.00	120	0	500	300	0.83	0	0.00	0.0
168	169	850	0	0.0	0.00	120	0	300	150	0.41	400	1.10	0.0
169	170	900	0	0.0	0.00	100	0	700	200	0.46	0	0.00	0.0
170	171	665	0	0.0	0.00	100	0	665	0	0.00	0	0.00	0.0
171	172	665	0	0.0	0.00	100	0	665	0	0.00	0	0.00	0.0
172	173	660	0	0.0	0.00	100	0	640	20	0.002	0	0.00	0.0
173	174	660	0	0.0	0.00	100	0	640	20	0.002	0	0.00	0.0
174	175	660	50	70.4	0.03	100	0	660	0	0.00	0	0.00	0.0
175	176	660	450	633.3	0.24	100	0	310	50	0.01	300	0.03	0.0
176	177	660	300	422.2	0.16	100	0	460	50	0.01	150	0.02	31.4
177	178	660	300	422.2	0.16	100	0	610	50	0.01	0	0.00	0.0
178	179	620	0	0.0	0.00	100	0	590	30	0.04	0	0.00	0.0
179	180	620	400	933.3	0.25	100	0	190	30	0.04	400	0.55	31.4
180	181	620	0	0.0	0.00	100	0	590	30	0.04	0	0.00	0.0
181	182	620	0	0.0	0.00	100	0	570	50	0.07	0	0.00	0.0
182	183	610	100	233.3	0.06	100	0	560	50	0.07	0	0.00	0.0
183	184	780	780	1820.0	0.48	100	0	780	0	0.00	0	0.00	0.0
184	185	730	220	513.3	0.14	100	0	530	200	0.23	0	0.00	0.0
185	186	650	0	0.0	0.00	140	0	325	325	0.52	0	0.00	0.0
186	187	690	0	0.0	0.00	140	0	345	345	0.55	0	0.00	0.0
187	188	500	0	0.0	0.00	140	0	300	100	0.16	0	0.00	0.0
TOTALS		74180	6170	13378.1	3.7		1640	47705	15040	31.77	9695	20.27	219.8
		14.0											

(1) TOTAL WIDTH INCLUDING PORTIONS THAT MAY EXTEND OVER OTHER RIGHTS-OF-WAY.

(2) WETLAND CLEARING ACREAGE INCLUDES ACCESS ROAD IMPACT AREA.

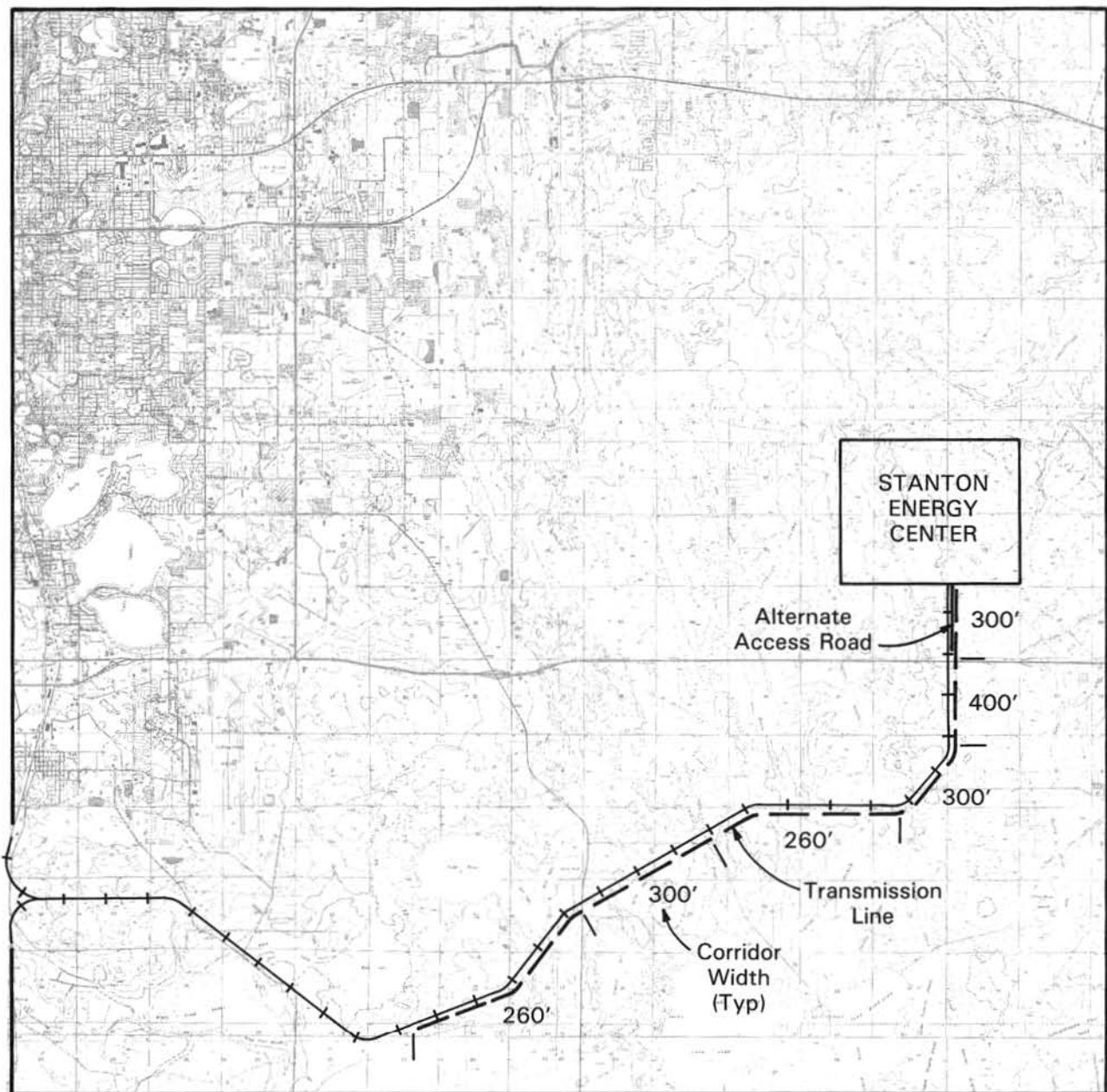
Table 6.1-2
Estimated Total Cost of Transmission Line

Item	Quantity	Estimated Total Cost (\$1991)
Land Requisition	14.0 miles	0
Right-of-Way Preparation	14.0 miles	950,000
Access Road Construction	14,163 cu yd	262,440
Structures (Including Foundations)		
Tangent (0-1 degree)	64	2,759,340
Angle (1-10 degree)	6	350,975
Angle (10-30 degree)	10	853,495
Dead-ends (30-90 degree)	7	627,085
Conductors	14.0 miles	1,338,490
Other ^a		<u>1,858,175</u>
Estimated Total Cost		9,000,000
Total Length	14.0 miles	
Estimated Per Mile Cost		642,855

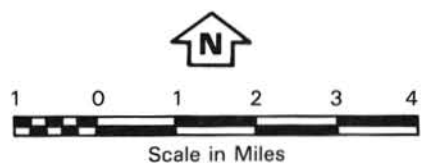
^aOrlando Utilities Commission costs, surveying, engineering, legal, soil investigation costs.

Image Quality

As you review the next group of images, Please note that the original documents were of poor quality.

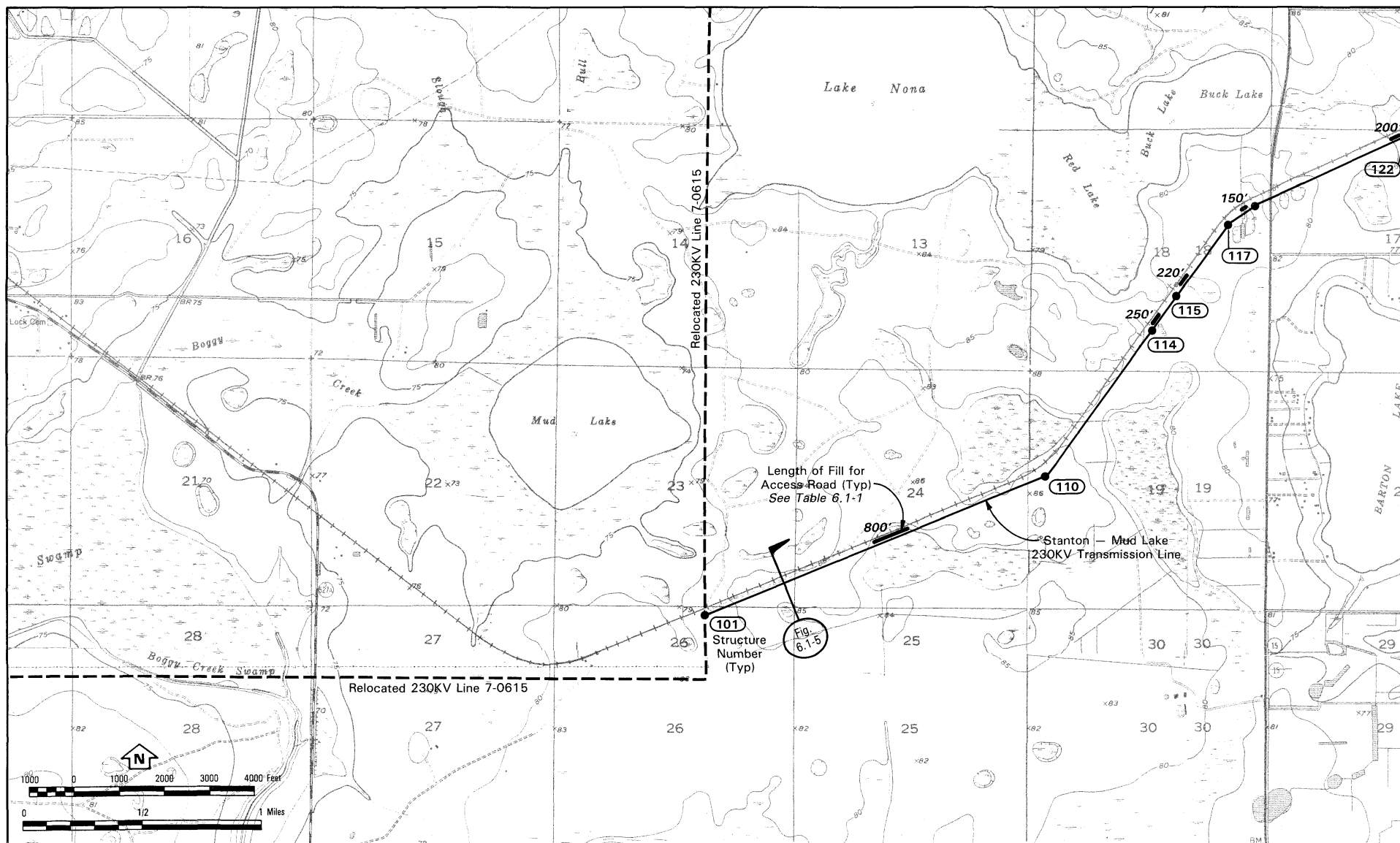


Base Map Source: USGS, Orland East, Oviedo SW, Pine Castle, Narcoossee NW, St. Cloud North, Narcoossee, FL Quadrangles



LOCATION OF THE STANTON ENERGY CENTER
TO MUD LAKE TRANSMISSION LINE
AND ALTERNATE ACCESS ROAD

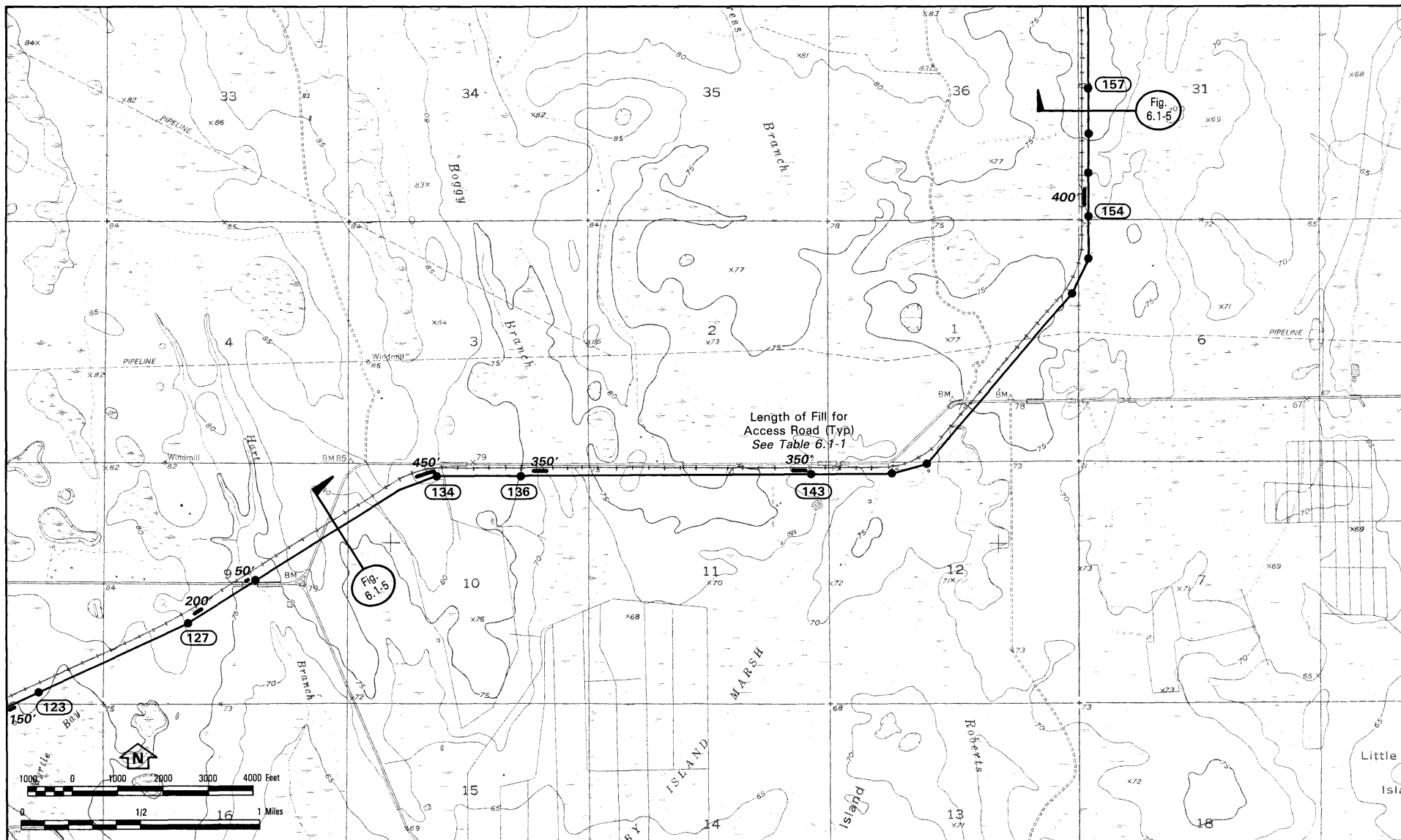
Figure 6.1-1



Base Map Source: USGS, Pine Castle, Narcoossee NW,
St. Cloud North, and Narcoossee, FL Quadrangles

TRANSMISSION LINE CORRIDOR LOCATION — WEST

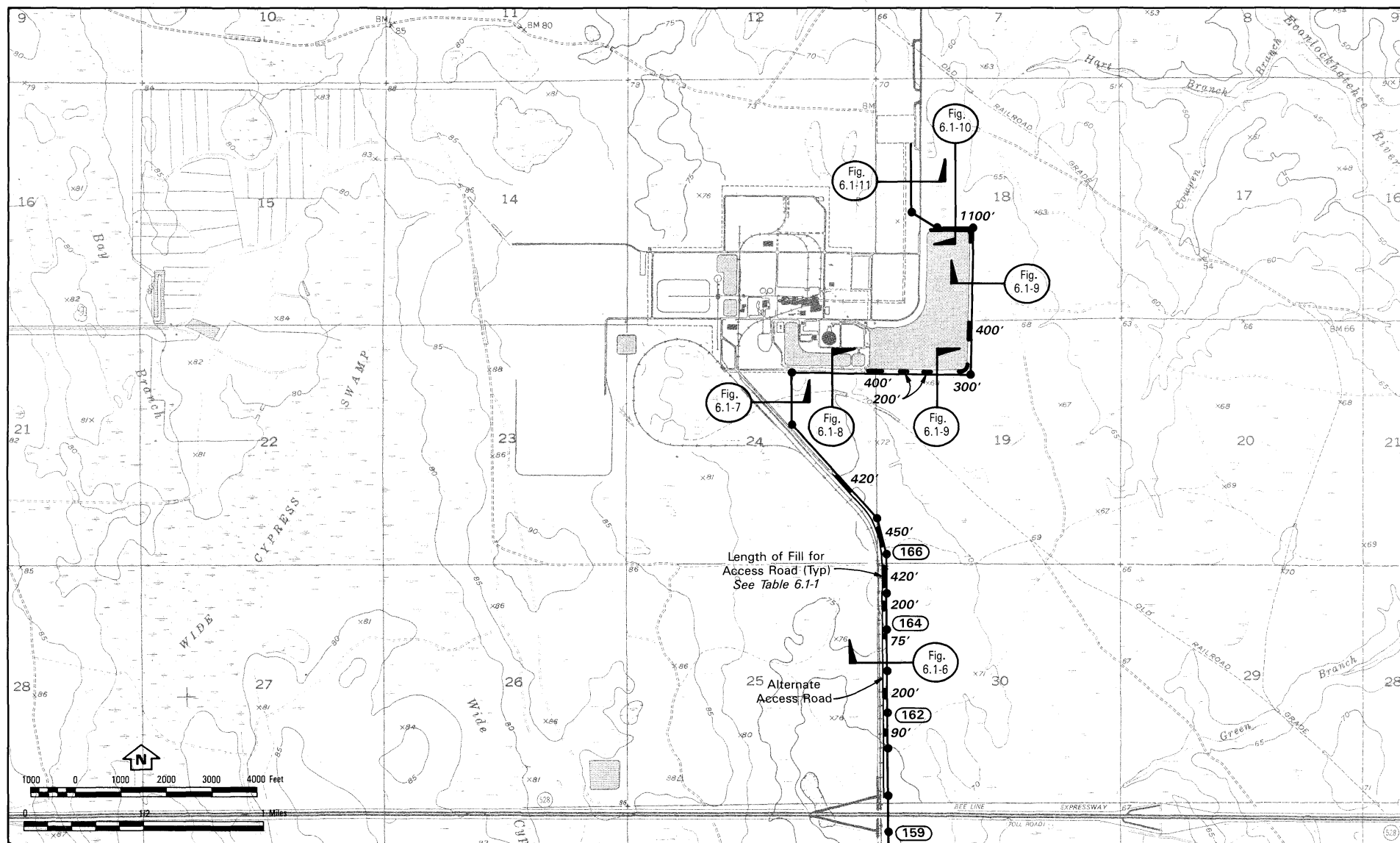
Figure 6.1-2



Base Map Source: USGS,
Narcoossee NW, FL Quadrangle

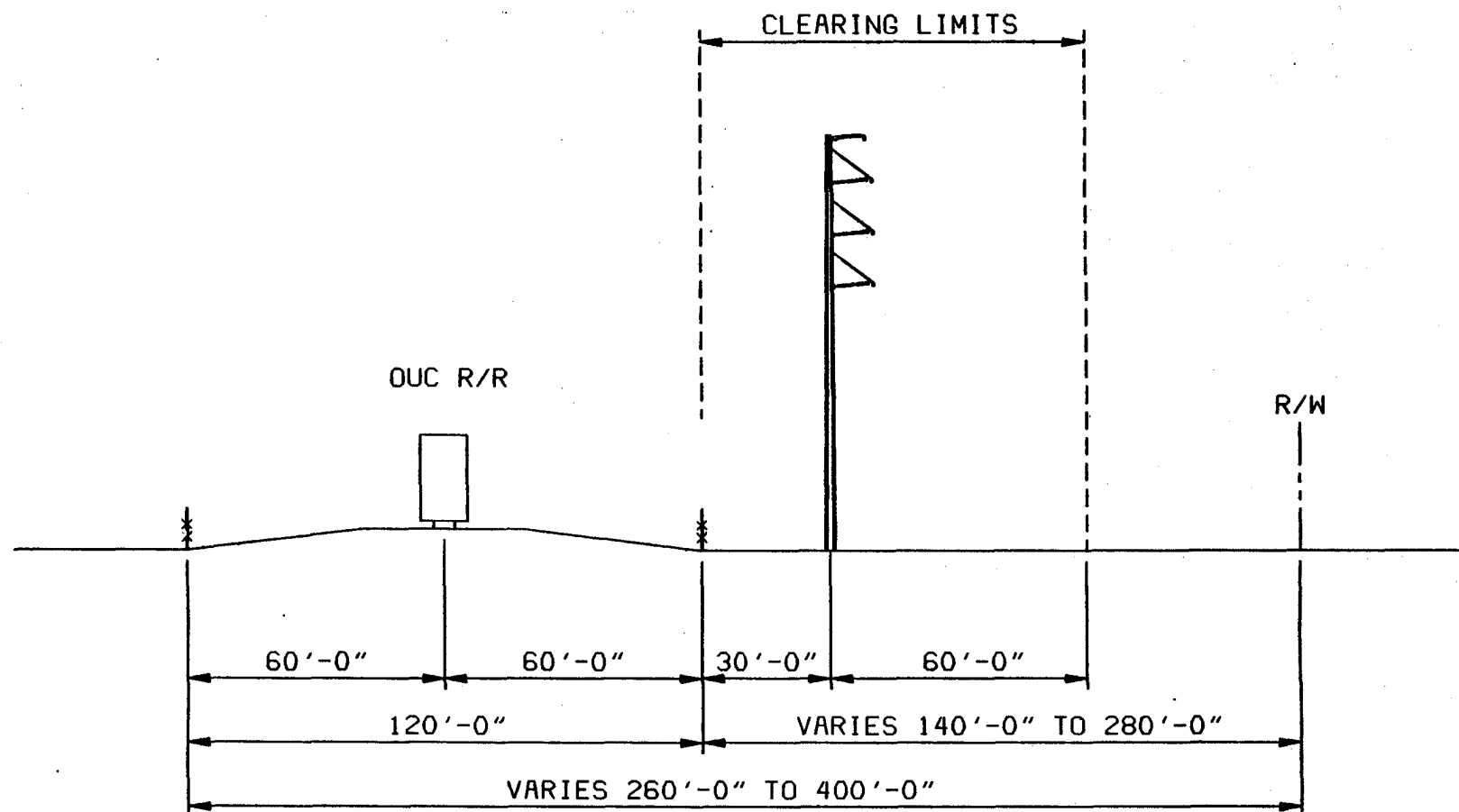
TRANSMISSION LINE CORRIDOR LOCATION — CENTRAL

Figure 6.1-3



031591

6.1-22

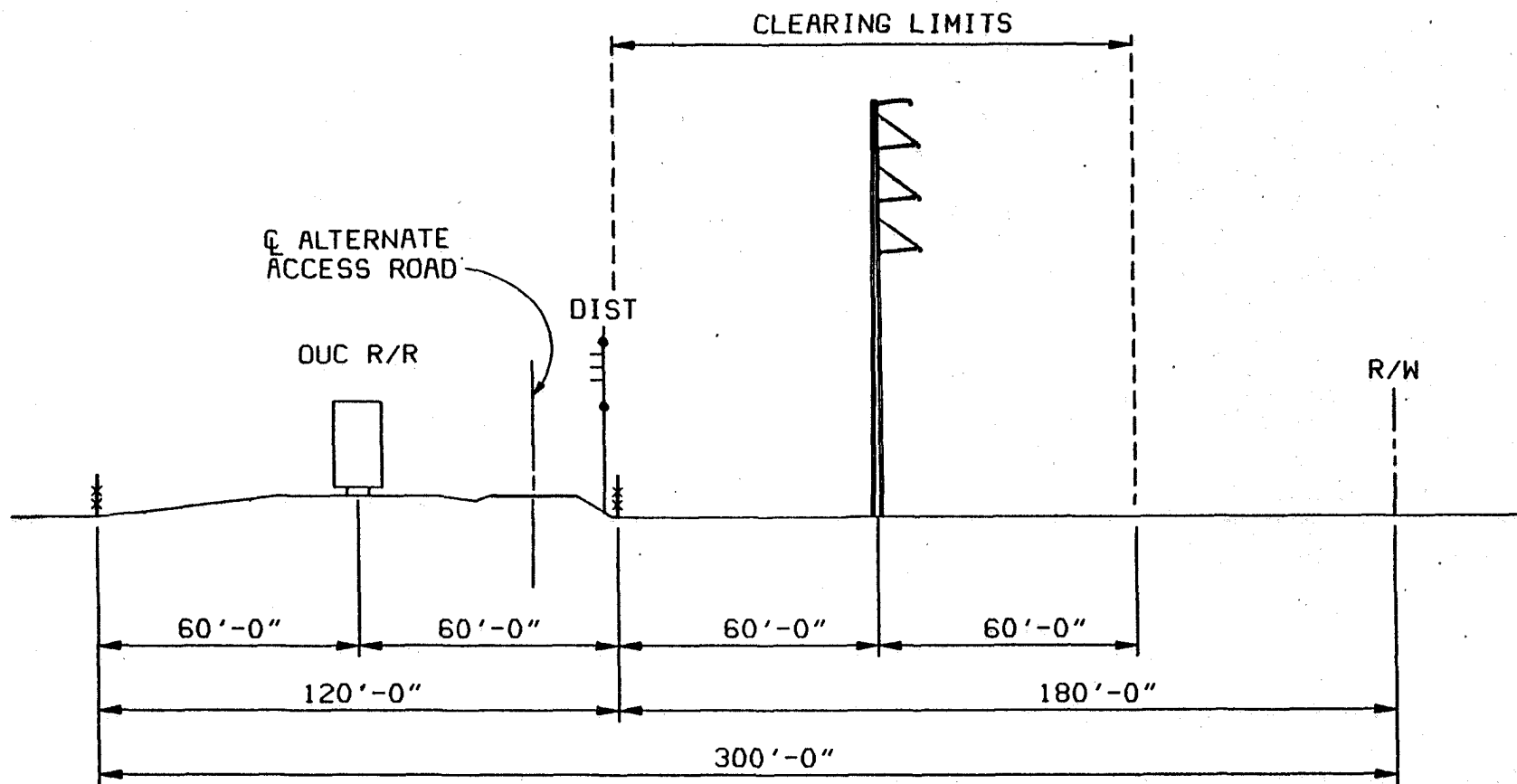


STANTON-MUD LAKE 230 KV TRANSMISSION LINE ALONG RAILROAD —
RELOCATED LINE 7-0615 TO BEE LINE EXPRESSWAY (Looking North)

Figure 6.1-5

031591

6.1-23

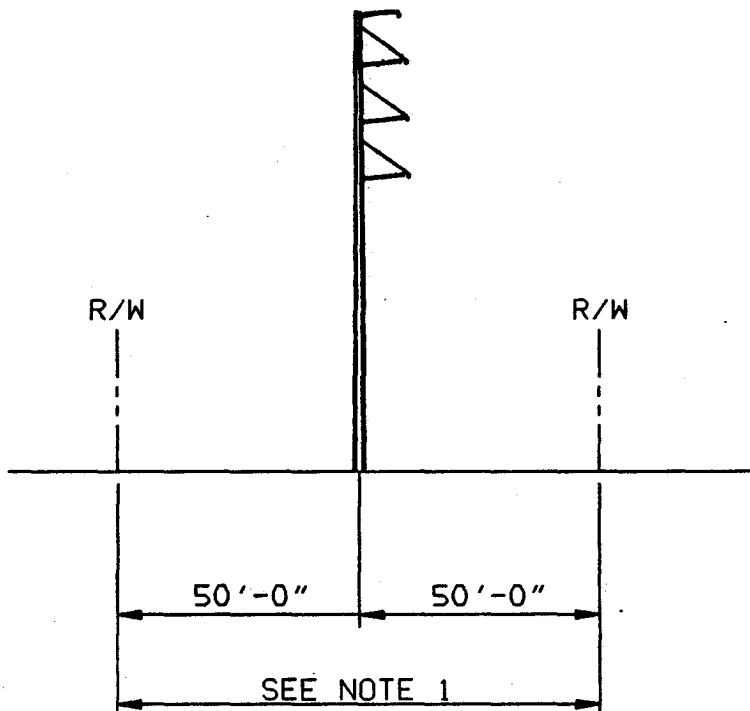


STANTON-MUD LAKE 230 KV TRANSMISSION LINE ALONG RAILROAD —
BEE LINE EXPRESSWAY TO STANTON SITE (Looking North)

Figure 6.1-6

NOTES:

1. PREVIOUSLY CLEARED, NO ADDITIONAL CLEARING ANTICIPATED.

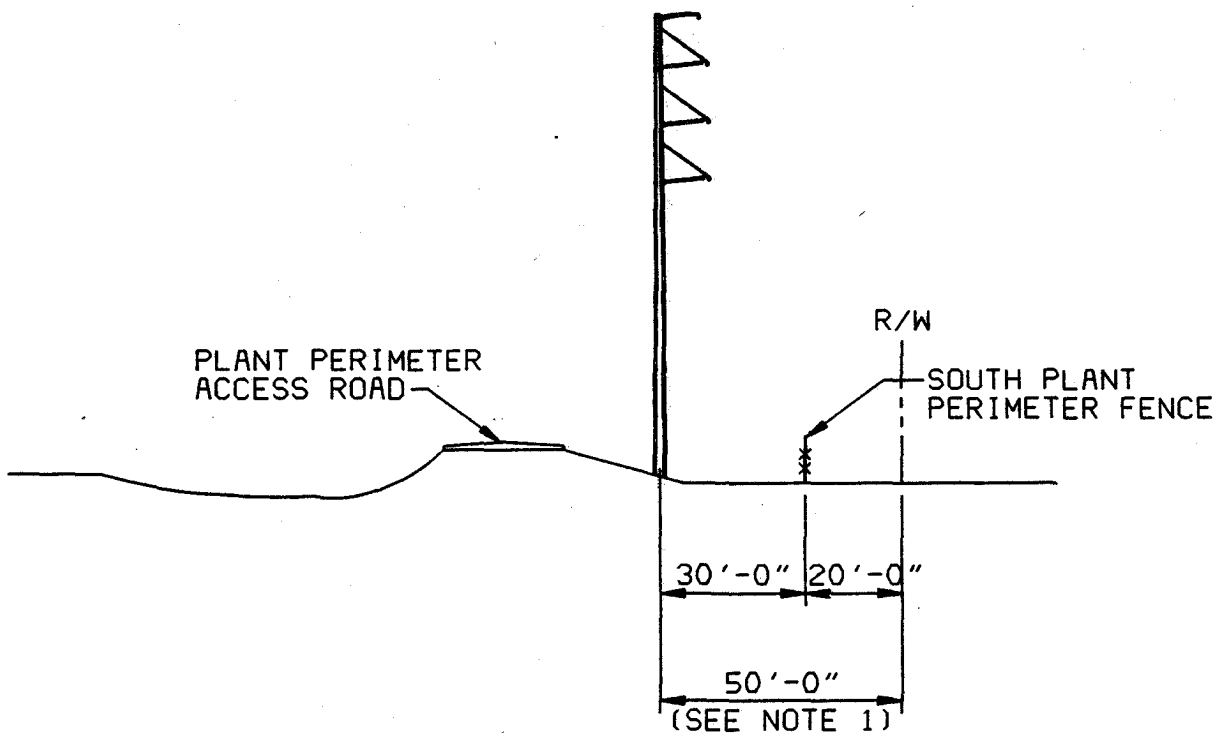


STANTON-MUD LAKE 230 KV TRANSMISSION LINE ALONG
EXISTING CONSTRUCTION ROAD (Looking North)

Figure 6.1-7

NOTES:

1. APPROXIMATELY 45 FEET CLEARED UNDER PREVIOUS PROJECT, MINIMUM ADDITIONAL CLEARING ANTICIPATED.

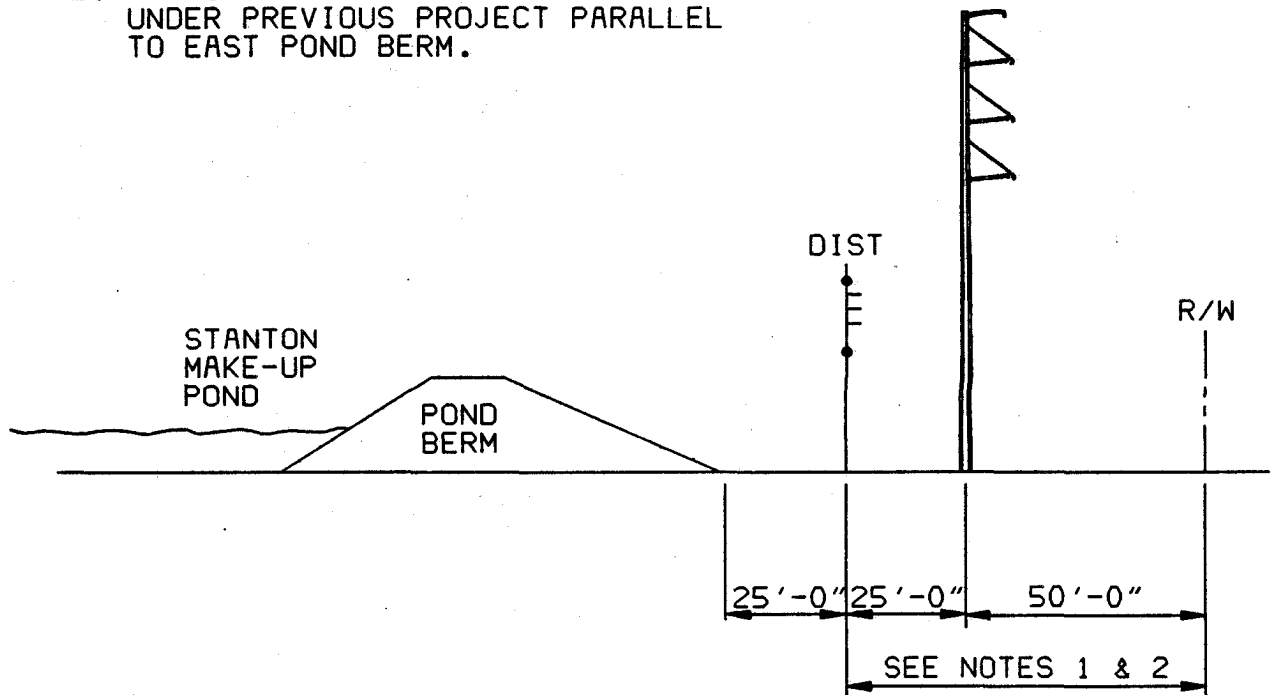


**STANTON-MUD LAKE 230 KV TRANSMISSION LINE
PARALLEL TO SOUTH PLANT PERIMETER FENCE
(Looking East)**

Figure 6.1-8

NOTES:

1. APPROXIMATELY 70 FEET CLEARED
UNDER PREVIOUS PROJECT PARALLEL
TO SOUTH POND BERM.
2. APPROXIMATELY 15 FEET CLEARED
UNDER PREVIOUS PROJECT PARALLEL
TO EAST POND BERM.

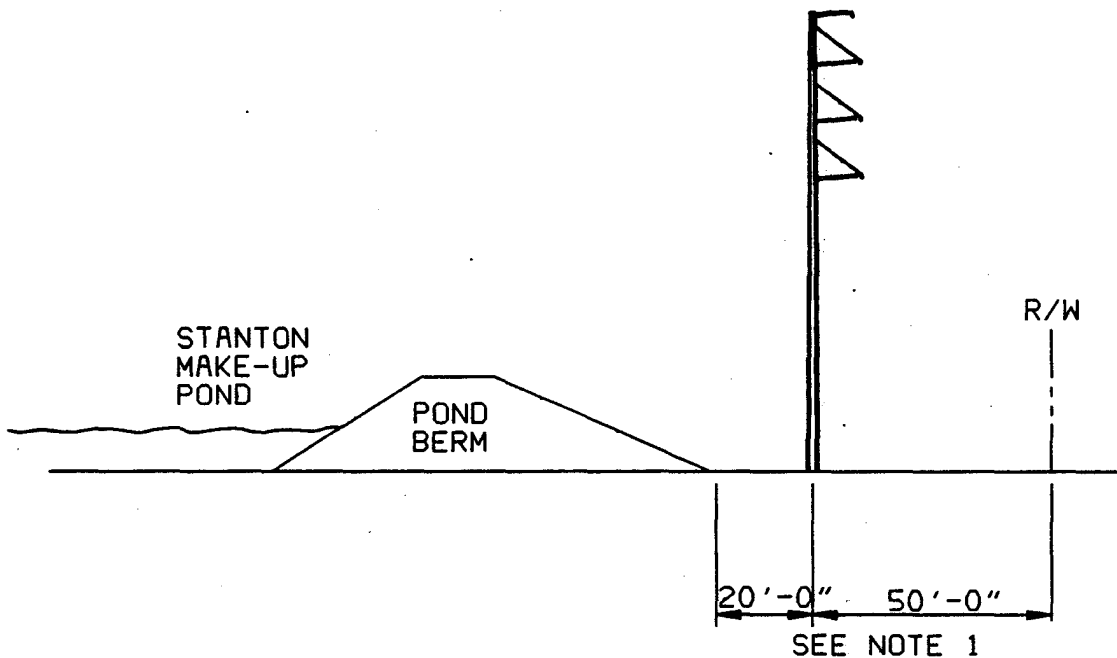


STANTON-MUD LAKE 230 KV TRANSMISSION LINE ALONG
PLANT MAKEUP POND (Looking East or North)

Figure 6.1-9

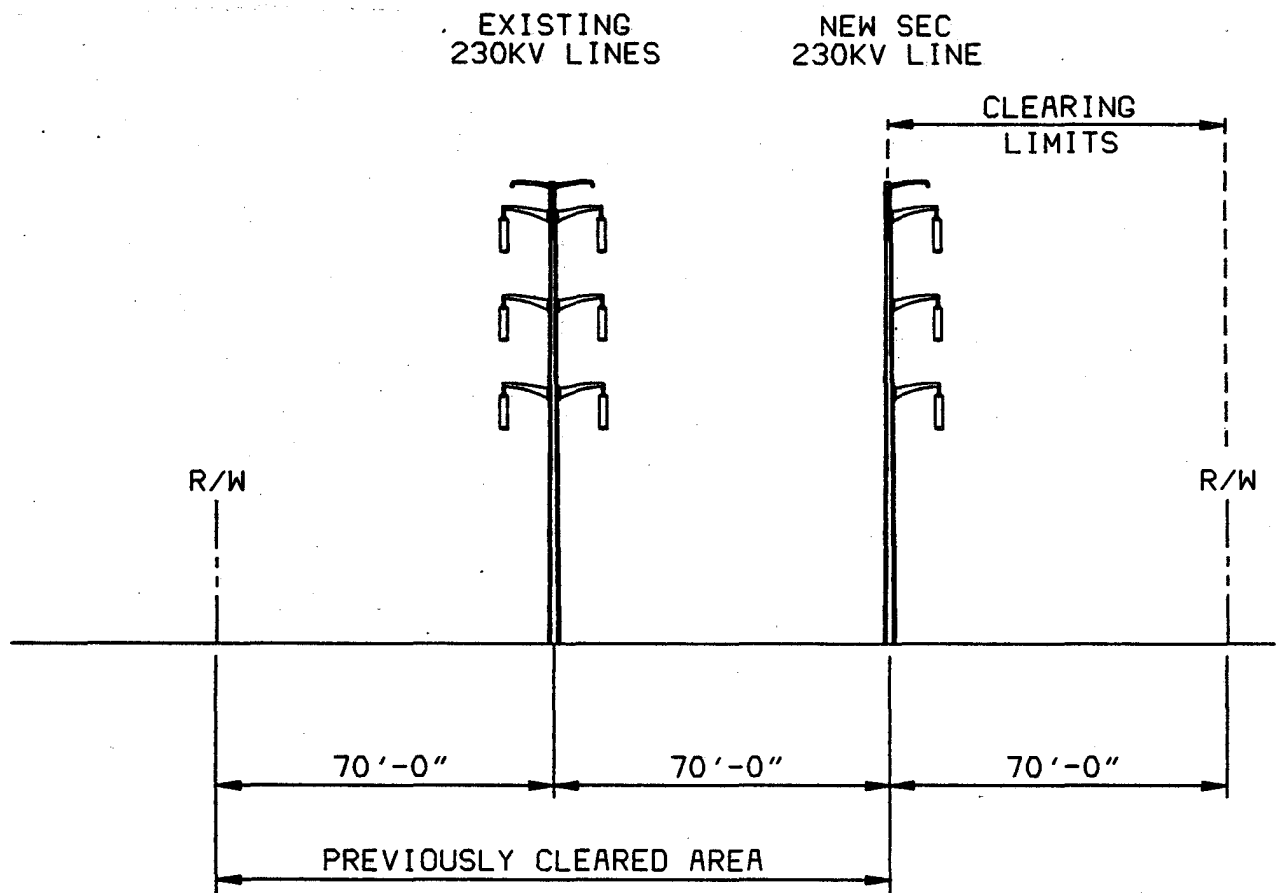
NOTES:

1. PREVIOUSLY CLEARED, NO ADDITIONAL CLEARING ANTICIPATED EXCEPT FROM NORTHWEST CORNER OF MAKE-UP POND TO EXISTING PLANT SUBSTATION TRANSMISSION CORIDOR.



**STANTON-MUD LAKE 230 KV TRANSMISSION LINE ALONG
PLANT MAKEUP POND (Looking West)**

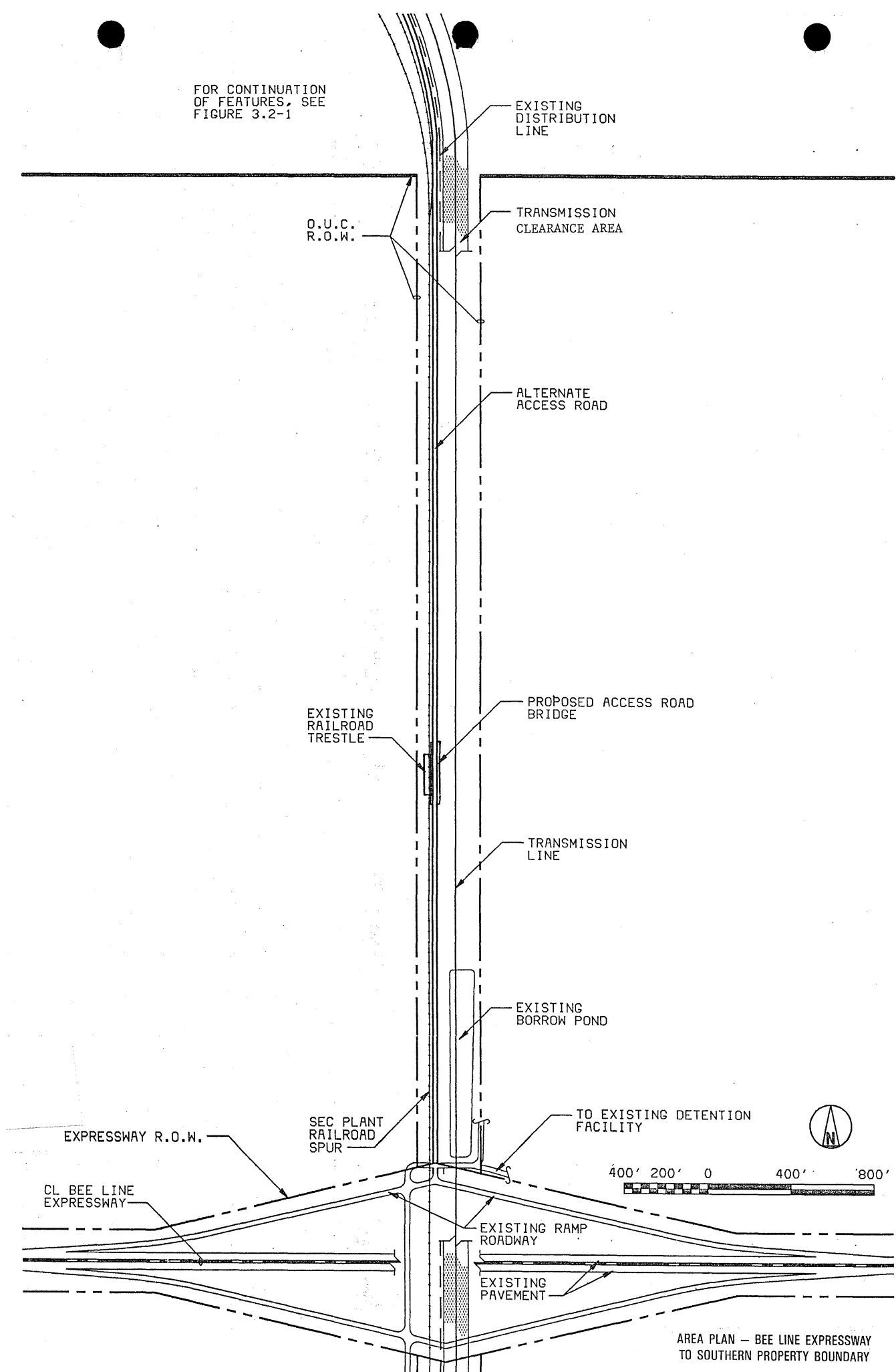
Figure 6.110



STANTON-MUD LAKE 230 KV TRANSMISSION LINE
ENTERING STANTON SUBSTATION (Looking North)

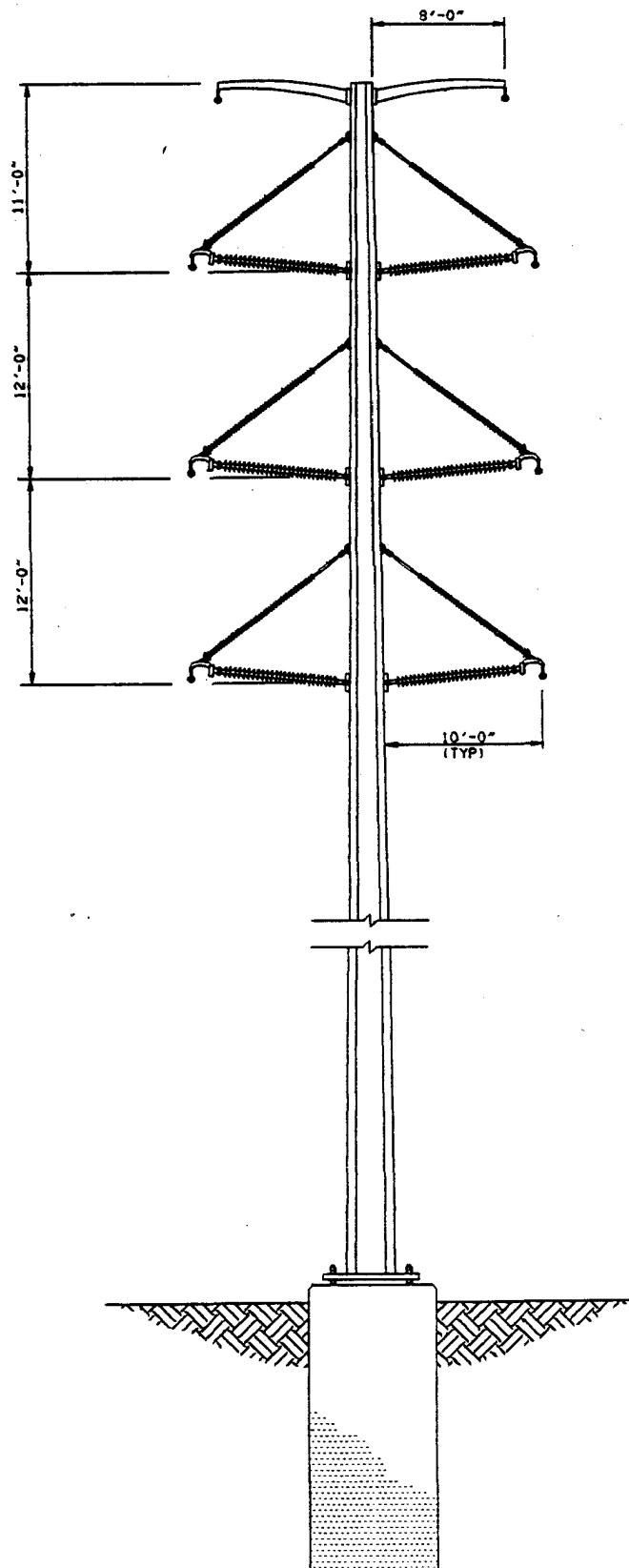
Figure 6.1-11

FOR CONTINUATION
OF FEATURES, SEE
FIGURE 3.2-1



AREA PLAN — BEE LINE EXPRESSWAY
TO SOUTHERN PROPERTY BOUNDARY

Figure 6.12

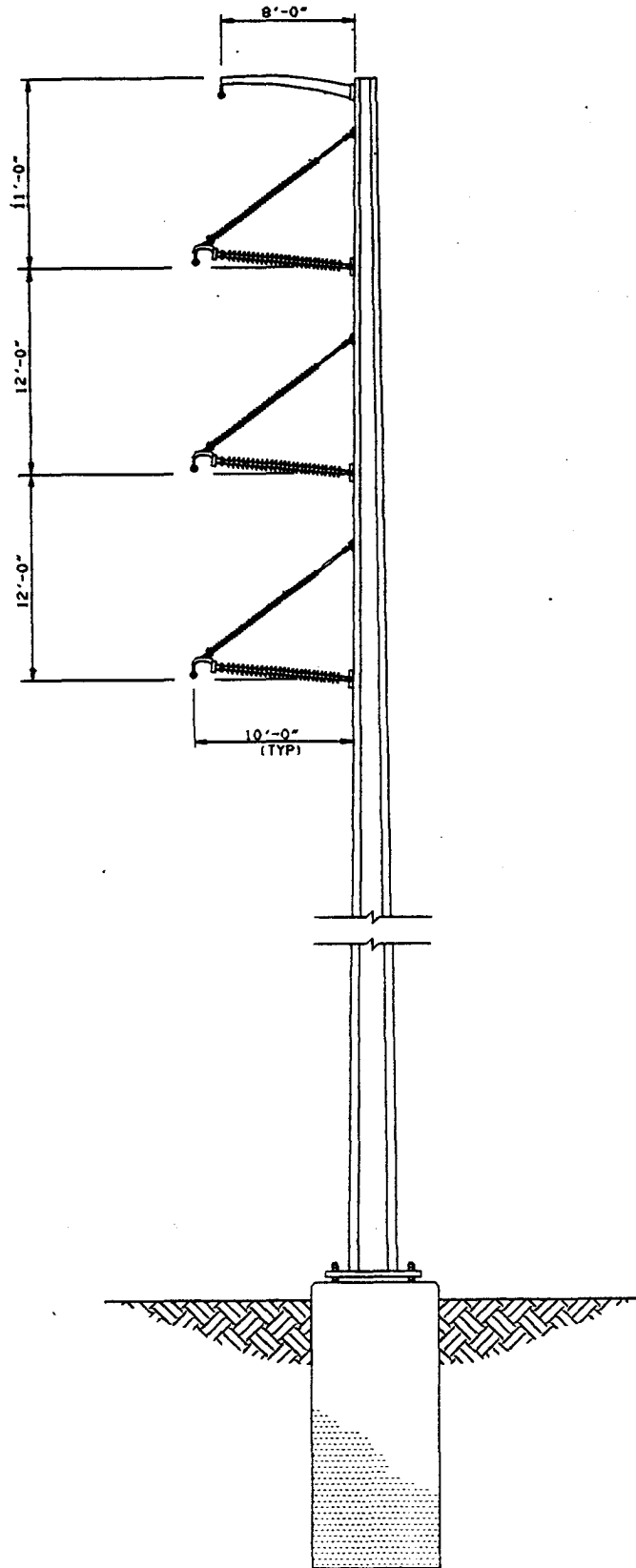


DOUBLE CIRCUIT TRANSMISSION LINE STRUCTURE

031591

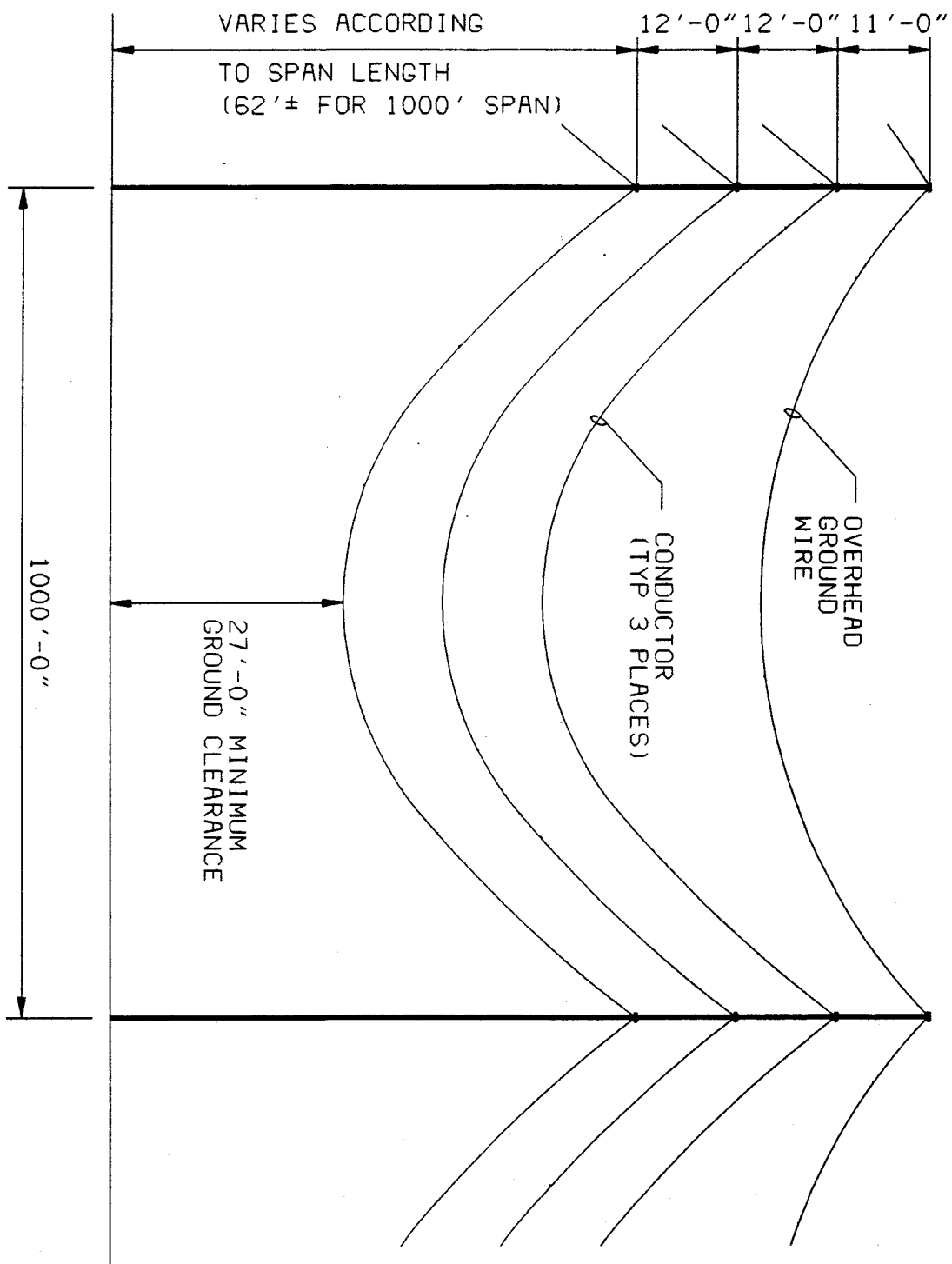
6.1-30

Figure 6.1-13



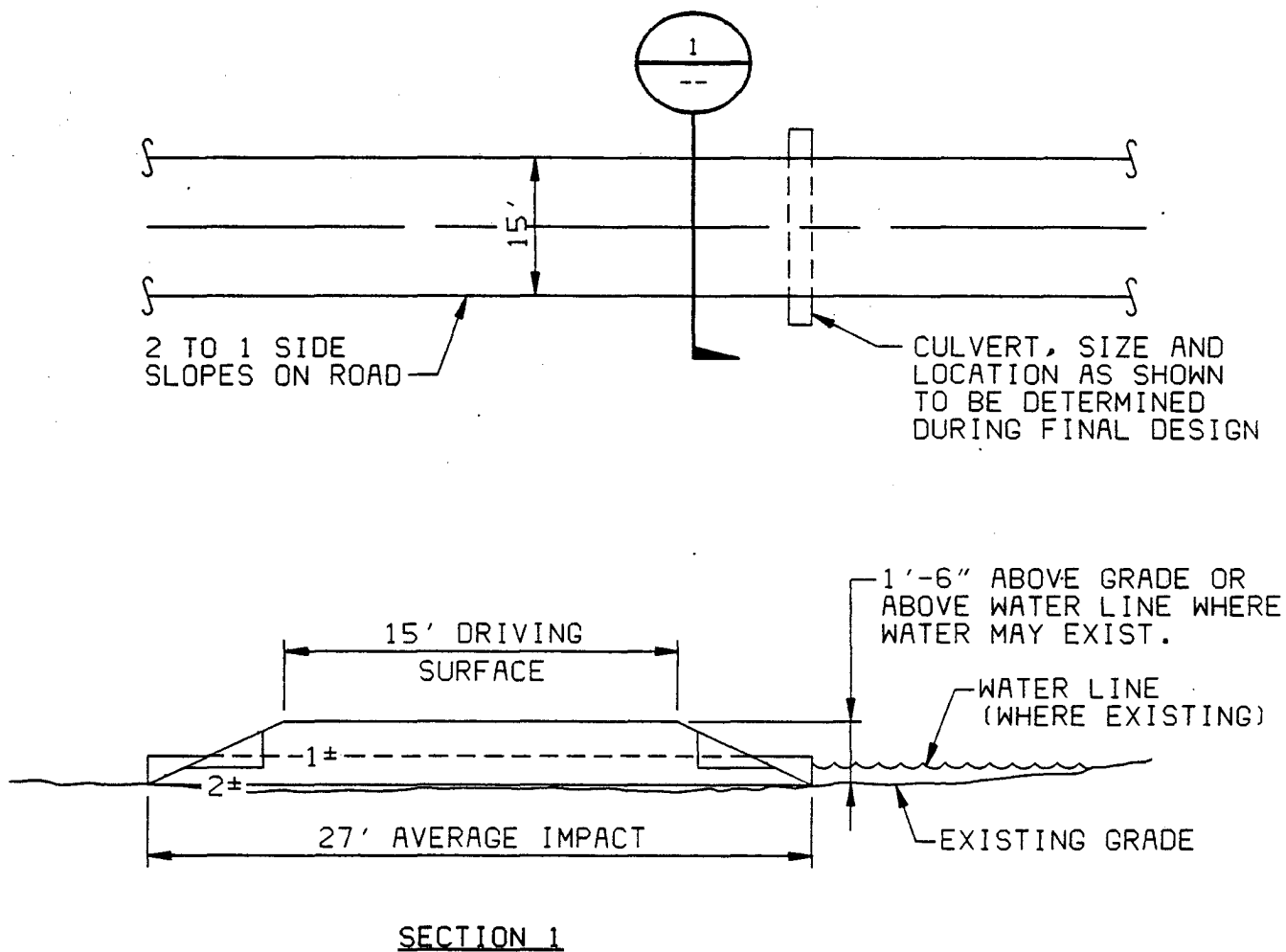
SINGLE CIRCUIT TRANSMISSION LINE STRUCTURE

Figure 6.1-14



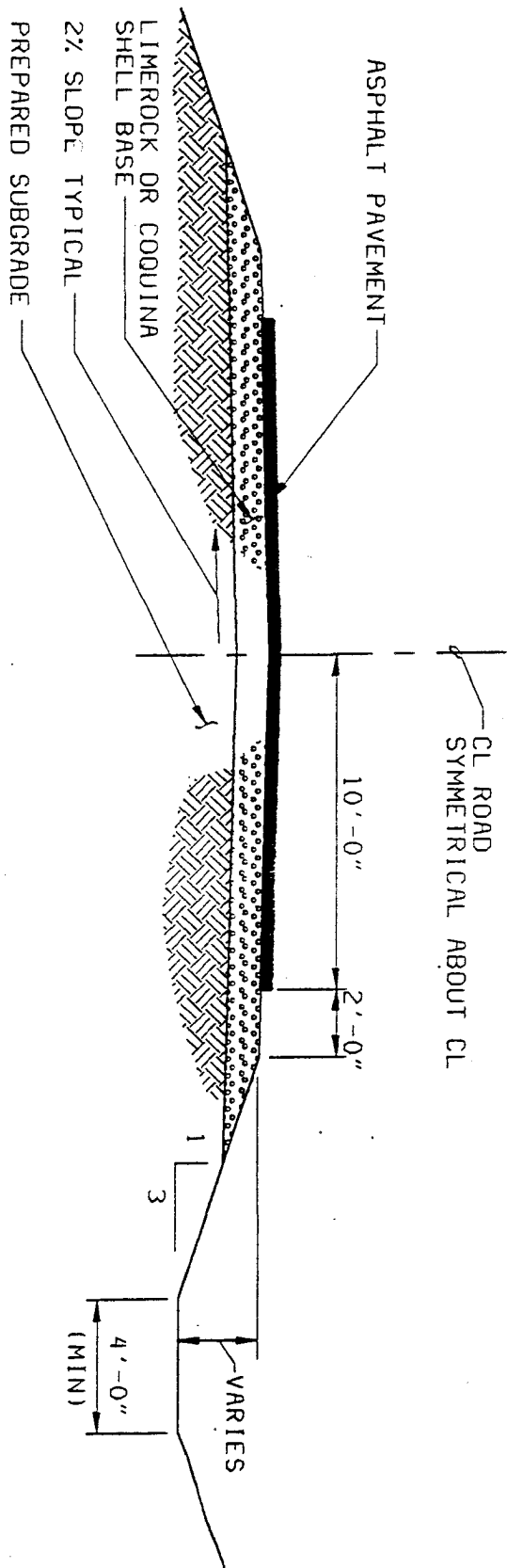
PROFILE OF 1000-FOOT SPAN

Figure 6.1.15



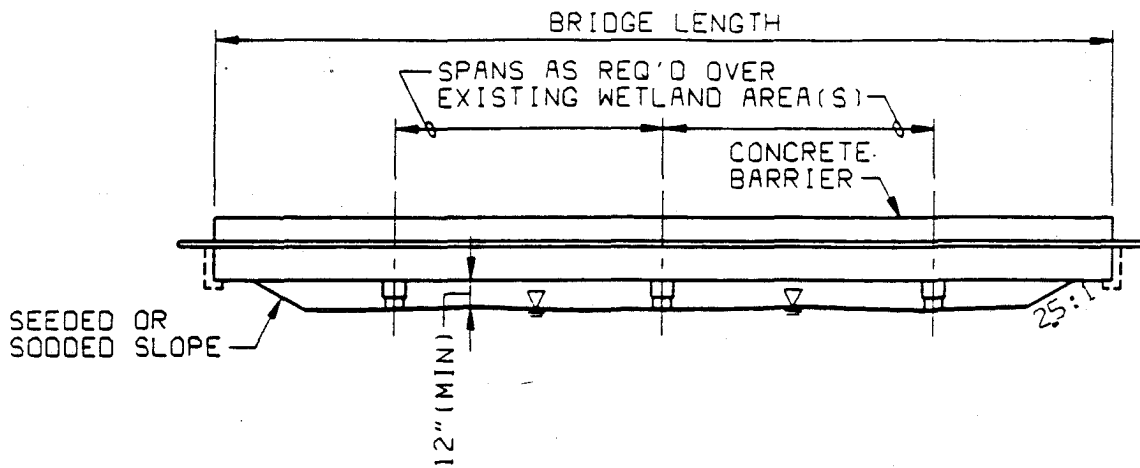
STANTON-MUD LAKE 230 KV TRANSMISSION LINE CROSS SECTION
OF TYPICAL TRANSMISSION LINE ACCESS ROAD

Figure 6.1-16

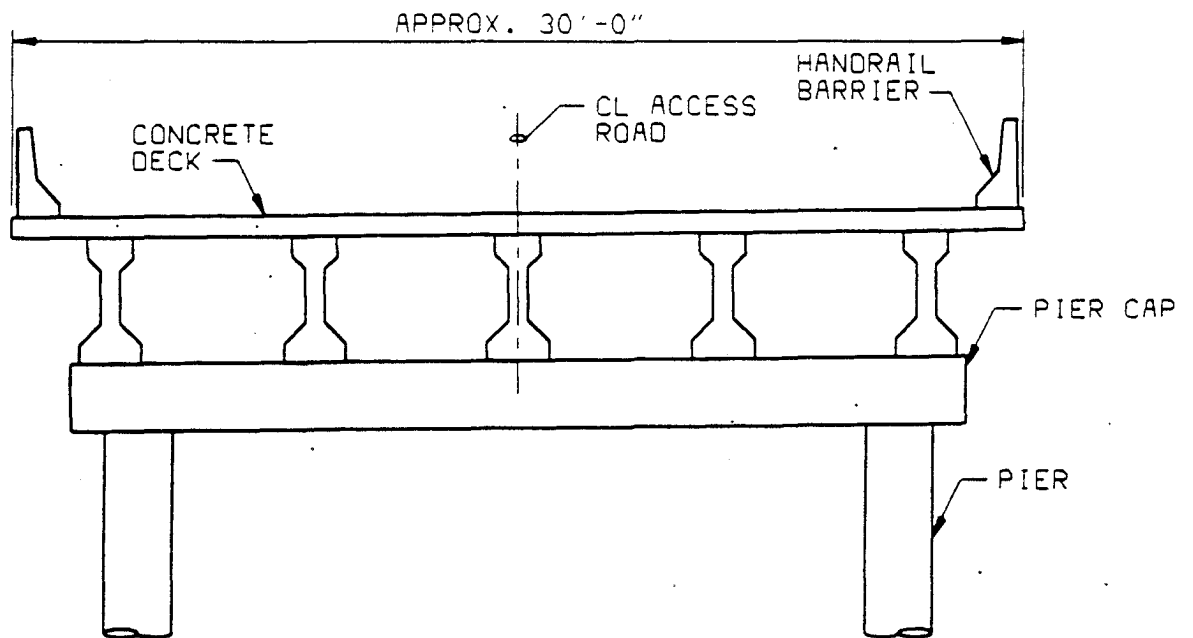


ALTERNATE ACCESS ROAD

Figure 6.1:17



ELEVATION



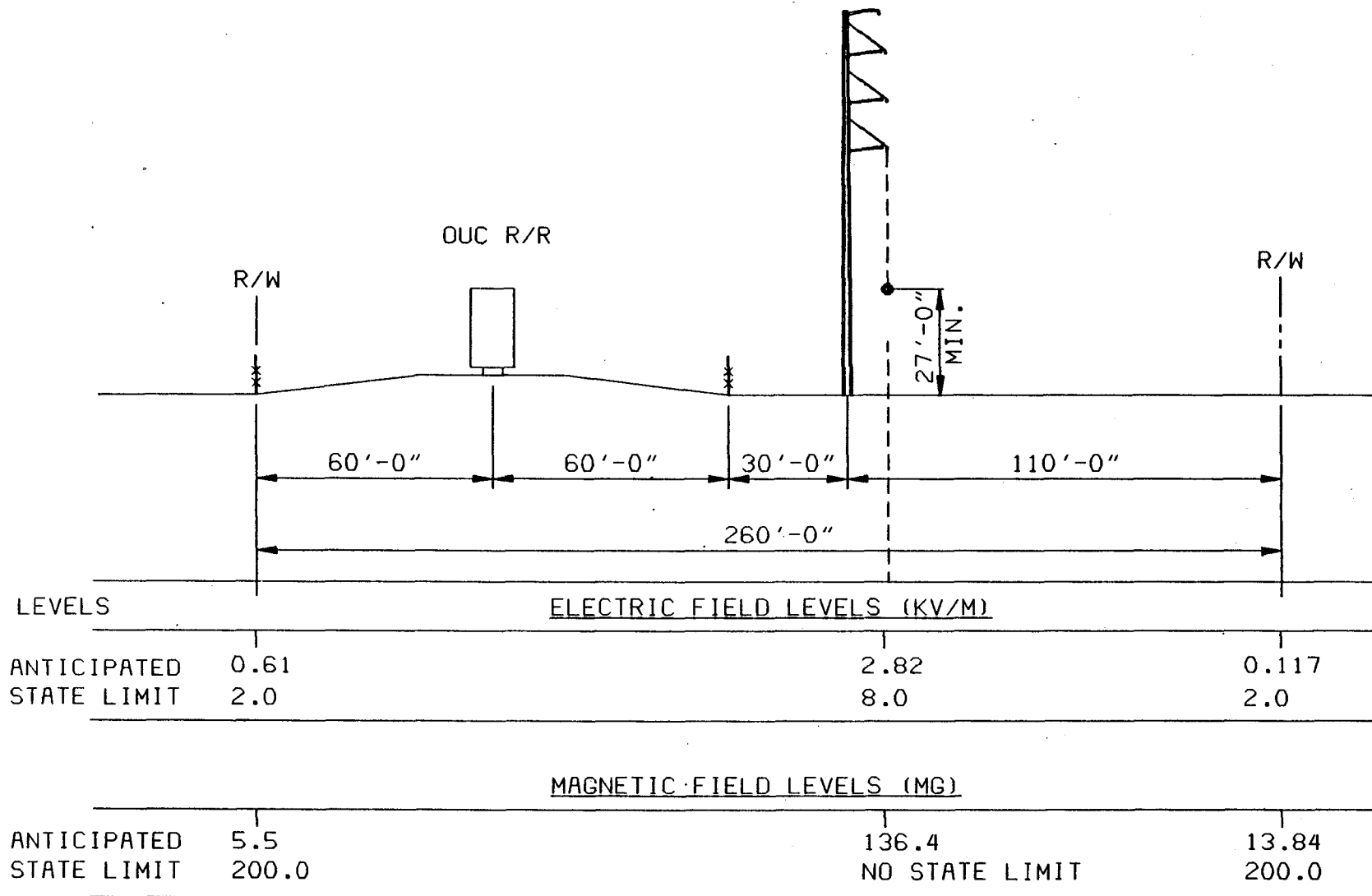
SECTION

TYPICAL ACCESS ROAD BRIDGE DETAIL

Figure 6.1-18

031591

6.1-36



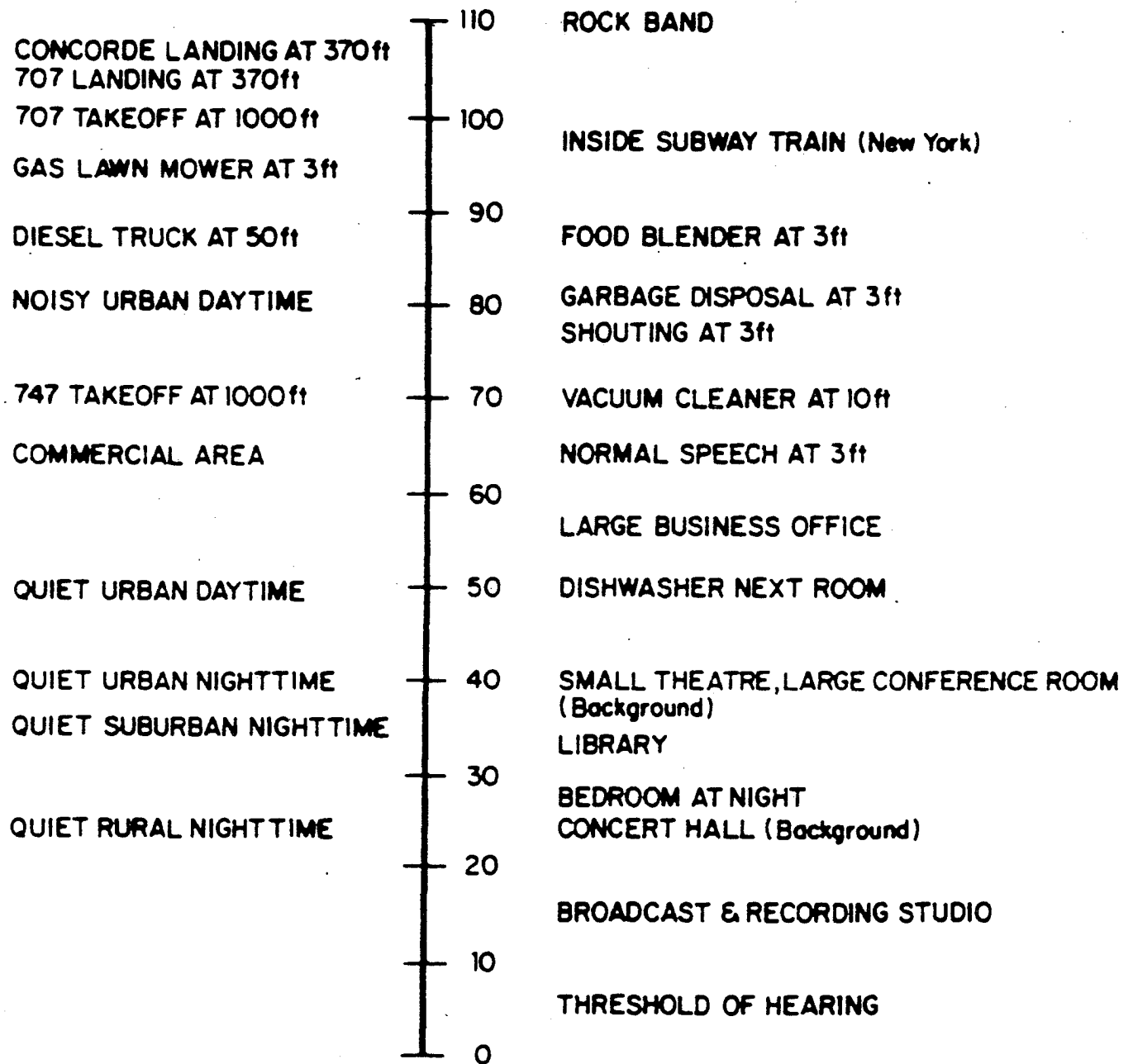
STANTON-MUD LAKE 230 KV TRANSMISSION LINE
ELECTRIC AND MAGNETIC FIELD LEVELS

Figure 6.1-19

**COMMON OUTDOOR
SOUND LEVELS**

**NOISE LEVEL
dB(A)**

**COMMON INDOOR
SOUND LEVELS**



COMMON SOUND LEVELS

Figure 6.1-20

6.2 Associated Linear Facilities

There will be no other new linear facilities associated with the Stanton Energy Center Unit 2 project.

6.2 Alafaya Trail Extension

6.2.1 Project Introduction

According to DER, in order to construct the extension of Alafaya Trail across the Stanton Energy Center, the Siting Board, pursuant to Supplemental Certification Condition VII/II, must approve the project. This road is an important component of Orange County's transportation plan. It will provide north-south access from south of the Bee Line to Seminole County. Additionally, it will provide an alternate transportation route to the Department of Corrections prison complex and to International Corporate Park.

The new Alafaya Trail extension will be approximately 4.2 miles long. Approximately 2.3 miles of the roadway traverses the eastern part of the Stanton Energy Center. The portion of the Alafaya Trail extension located off the Stanton Energy Center property has received all necessary local, state, and federal permits or approvals for construction of the roadway. However, by virtue of DER's interpretation of the Electrical Power Plant Siting Act, all construction will be delayed until the portion traversing the Stanton Energy Center is authorized by the Siting Board.

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6.2.2 Road Extension, Corridor Location, and Layout

The Alafaya Trail extension corridor varies in width from 110 feet to 180 feet along its route beginning at a point approximately 3,000 feet south of the Bee Line Expressway intersecting with the easterly extension of Aerospace Parkway. North of the Bee Line Expressway the road meanders through open, rural terrain traversing through the OUC properties and connecting to the southerly end of the existing Alafaya Trail. In an effort to minimize impacts upon threatened and endangered species located within the Orlando Utilities Commission properties, the right-of-way was reduced in width from 180 feet to 110 feet beginning approximately 1,000 feet north of the south line of Section 19 Township 23 South Range 32 East and continues approximately 1.63 miles to the north. From this point to the northerly terminus at the existing Alafaya Trail, the right-of-way is once again expanded to 180 feet.

6.2.3 Road Design Characteristics

The roadway right-of-way provides sufficient width for a four-lane, divided roadway section. Within the 180-foot right-of-way the road typically provides for construction of two lanes of the future four lanes with 10-foot shoulders. Drainage is collected within roadside swales and ditches and transmitted longitudinally within the limits of the right-of-way to surface stormwater management facilities. Two lanes of the future four lanes of urban roadway are contained within the 110 foot right-of-way limits. Runoff is collected through a system of curb inlets and transmitted longitudinally within the road right-of-way utilizing underground pipes to surface stormwater management facilities.

The two lanes consist of 12-foot asphalt paved lanes with 4 feet of the 10-foot shoulders paved within the rural sections and 2-foot standard curb and gutters on each side within the urban section. The road is elevated above the 100-year flood elevation on embankment fill. At locations where the access road interrupts natural drainage patterns, culverts or bridge drainage structures are provided. Additional openings are provided as required for wildlife crossings.

6.2.4 Cost Projections

As required by Condition 4.5, et seq., of a Development of Regional Impact Development Order issued by Orange County on June 30, 1986, ICP Associates is required to construct the road at its cost. Orange County will own and maintain the road after construction is completed. Therefore, OUC is not responsible for any costs of building or maintaining the road.

6.2.5 Corridor Selection

The extension of Alafaya Trail from its current terminus at the north boundary of the Stanton Energy Center south past the Bee Line Expressway to ICP properties was required by Orange County, and included as Condition No. 4.5, et seq., in the ICP Development of Regional Impact (DRI) Development Order (DO) that was issued on June 30, 1986. In anticipation of the DO condition, the alignment was first studied in the fall of 1985, after meetings with OUC regarding the placement of Alafaya Trail within the Stanton Energy Center property. OUC supported the construction of Alafaya Trail within its boundaries, and agreed to provide the right-of-way.

RFM-1

In order to develop the three initial alternatives, all of which traversed the Stanton Energy Center property, ICP's engineering consultants utilized existing aerial photography and USGS maps, together with plans for the Stanton Energy Center in the vicinity of the proposed roadway. The alternative alignments were designed to minimize impacts to existing wetlands and to utilize, as much as possible, crossing points which had already been established and disturbed. For each alternative, three waterways required crossing--Hart, Cowpen, and Green Branches. Each of these branches had certain disturbed areas already present in their stream bed. The initial alignments were set to occur as near as possible or coincide with existing crossings whenever possible.

Subsequent to the establishment of the initial three alternatives (Alternates A, B, and C), a survey of the Red-Cockaded Woodpeckers (RCW) was conducted on the OUC property in late 1985. Each of the alignments was found to impact a RCW colony site. At this time, a fourth alignment (Alternate D) was developed to avoid all known RCW colony sites on the property by means of a serpentine design, while still minimizing impacts to wetland areas as they had been determined at that time. This alignment was informally presented to Orange County, and in May 1986 it was inspected by representatives of OUC and Alafaya Trail extension project engineers and consultants. The alignment was modified slightly as a result of the field inspection to provide additional avoidance to RCW sites. OUC and Alafaya Trail extension project consultants supported the resultant alignment, Alternate E, and formally established it as the Alafaya Trail Extension Alignment. Furthermore, in a joint meeting with the US Army Corps of Engineers (ACOE) and EPA, EPA indicated that ICP had met the test of corridor selection. EPA was concerned about additional wetland impacts and secondary impacts of the other proposed corridors. With this in mind, EPA approved the final selection.

In June of 1986, the Orange County Board of County Commissioners approved, and ICP executed, the ICP DRI Development Order.

In the summer of 1987, two additional alignments were studied. One was an alignment east of the OUC property and known as the Altman Ranch Alternative (Alternate F). The second additional alignment (Alternate X) was wholly contained within the OUC property boundary, but located as far east as possible. These alignments were examined in part to determine if the wetland impacts could be reduced by moving the alignments further east. The Altman alignment

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was found to increase the wetland impact by approximately 50 percent, and because of its additional length, the Altman alignment would also impact upland habitat to a greater extent. The Alternate X alignment on the OUC property was found to have no appreciable change on the wetland impacts. This alignment, however, necessitated crossing a fourth (unnamed) stream that had previously not been impacted by the alignments. Both these alignments, though studied, were ultimately not selected for implementation.

In the fall of 1987, the ACOE issued a permit for the construction of water supply and sewage pipelines on the selected alignment for use by the Florida Department of Corrections, ICP, and Orange County's master system. ICP met with the ACOE to discuss the pipelines and the development of International Corporate Park, Phase I. ICP and the project consultants presented the alignment, and the ACOE acknowledged that the pipeline alignment would eventually become the alignment for the proposed Alafaya Trail extension.

The pipeline project engineers submitted an application for permitting to the St. Johns Water Management District (SJRWMD), but ultimately withdrew when SJRWMD determined that no permit was required for the pipeline installation work. An informal jurisdiction determination was sought and received from the Florida Department of Environmental Regulation (FDER) regarding the impact areas for the pipelines. FDER determined that no dredge and fill permits were required due to construction techniques that avoided impacts to "waters of the state" (Exhibit 6.2-1).

After obtaining all necessary permits to construct the pipelines, the right-of-way was cleared along the selected alignment, and the pipeline project was completed in early 1988. ICP submitted the same alignment to Orange County for the Alafaya Trail extension, and on May 1, 1989, the Orange County Board of County Commissioners approved the alignment (Exhibit 6.2-2). On November 20, 1989, Orange County formally accepted the maintenance of sewer and water force mains along the Alafaya Trail extension alignment (Exhibit 6.2-3).

On October 9, 1990, SJRWMD issued permits for the southern half of the Alafaya Trail extension. In addition, on November 4, 1990, Orange County approved the project along the entire corridor from the Stanton Energy Center to south of the Bee Line Expressway. However, due to concerns from the U.S. Fish and Wildlife Service (USFWS) and the Florida Game & Fresh Water Fish Commission (FGFWFC), the right-of-way width within OUC properties was

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reduced and the location of the mitigation site was relocated south of the Bee Line Expressway. Permits for these modifications were obtained from the SJRWMD on July 9, 1991 (Exhibits 6.2-4 and 6.2-5).

On September 20, 1991, the ACOE issued its letter of intent to permit when the state issues its Section 404 Water Quality Certification for the entire Alafaya Trail extension project (Exhibit 6.2-6).

In summary, the alignment selection process occurred during the period 1985 to 1987, prior to the Memorandum of Agreement between the EPA and the ACOE (February 17, 1990) concerning the determination of mitigation under the Clean Water Act Section Guidelines 404(b)(1), specifically addressing the alternative analysis. ICP has acted in reliance on the review, and/or approval, of the ACOE, FDER, SJRWMD, and Orange County regarding the determination of the selected alignment for the pipelines and the Alafaya Trail extension. Finally, the County, which required ICP to construct the Alafaya Trail extension, approved the roadway alignment during a public hearing nearly two years ago. Adequate opportunity was provided for comment during the selection and approval process in effect at that time. The alternatives associated with Alafaya Trail were identified on a map which is attached as Figure 6.2-1. The following description establishes the alignment corridor selection by station.

Station 505+00 to 435+00: The connection point for the Alafaya Trail extension was placed at Station 505+00 to avoid RCW Colony "X." The alignment is on the west side of Colony "X" extending outside the colony limits. The crossing of Hart Branch was set by the serpentine geometry required to miss Colonies "E" and "X." Colony "X" is located to the east of the alignment between Section 465+00 to 445+00.

Station 435+00 to 410+00: The road geometry was located to the east to avoid RCW Colony "E." The alignment is located between Station 435+00 to 410+00 west of Colony "E." Start hole No. 8 at Station 417+50 was not in existence at the time of alignment selection and has since been abandoned.

Station 410+00 to 380+00: The alignment passes between RCW Colony Site "H" to the west and colony site "I" to the east. The alignment was curved to the west to avoid Colony Site "I." The curve back to the southeast was dictated by wetlands 1, 2, 45, and 46. The crossing of Cowpen Branch at Station 405+00 was

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at an existing disturbed tram road. The vicinity of wetlands along the proposed roadway is depicted on Figure 6.2-2.

6.2.6 Socio-Political Environment of the Corridor Area

6.2.6.1 Governmental Jurisdictions. The Alafaya Trail extension lies entirely within Orange County, Florida; the entire length of the roadway extension does not cross the boundaries of any municipality.

6.2.6.2 Zoning and Land Use Plans. The zoning and land use for the Alafaya Trail extension alignment on the Stanton Energy Center property was discussed generally in the original SCA. The zoning for the plant site, including the segment of the Alafaya Trail extension traversing the site, is "A-2," which is defined as Ranch and Farmland Rural District. Approximately 49.37 acres of the site will be modified by roadway construction. The proposed roadway alignment is shown on Figure 3.2-1. The road alignment was designed to minimize impacts to wetlands and wildlife (Figures 6.2-1 and 6.2-2). Only 1.53 acres of the proposed wetland impacts are "waters of the state" wetlands of which only 0.54 acre would require a permit to impact since the other two wetlands qualify for ditch block exemptions pursuant to Section 403.913(4), F.S. Due to the roadway's design and location, the roadway will have a minimal impact on the environment and wildlife in eastern Orange County.

The roadway extension will provide toll-free access to the DOC prison facilities, which currently are accessible only from the Bee Line Expressway, and access to International Corporate Park. Furthermore, the extension of Alafaya Trail from its present terminus at the Stanton Energy Center to a location on the International Corporate Park site will complete a much needed transportation corridor in eastern Orange County. Accordingly, the proposed roadway is consistent with Orange County's Comprehensive Plan.

6.2.6.3 Easements, Title, Agency Works. On December 28, 1987, a Temporary Construction Easement was obtained by ICP in order for it to construct the road on the Stanton Energy Center property. This easement was recorded on December 30, 1987, in Orange County at Official Records 3946, Pages 3186 to 3199.

6.2.6.4 Vicinity of Scenic, Cultural, and Natural Landmarks. There are no recorded historic, scenic, cultural, or natural landmarks located on the plant site. The nearest recognized sites are located in or near Orlando. The National Register of Historic Places currently lists the following sites located in Orange County, Florida.

- (1) Orlando--Old Orlando Railroad Depot.
- (2) Orlando--First Church of Christ Scientist.
- (3) Orlando--The Tinker Building.
- (4) Winter Park--The Parsonage.

The National Registry of Natural Landmarks does not include any sites for Orange County, Florida.

6.2.6.5 Archaeological and Historical Sites. An archaeological and historic survey of the Stanton Energy Center site was conducted in two stages. Sections 13 and 24, and the eastern halves of Sections 14 and 23 of Township 23 South, Range 31 East, initially were surveyed. When access later became available, the remainder of the site also was examined for the presence of archaeological and cultural resources. The site survey was conducted by personnel from the Florida Secretary of State, Division of Archives, History, and Records Management.

Four sites were found during the surveys. Three were prehistoric archaeological sites, and one was a historic hunting lodge from about the early 20th century. This lodge is located just off the site near the southwest corner of the proposed property line. The Division of Archives, History and Records Management concluded that the sites did not represent significant archaeological or historical resources. A copy of a letter from Mr. L. Ross Morrell, Director, Division of Archives, History and Records Management concerning the initial survey is presented as Exhibit 2.3-1 in the original SCA.

6.2.7 Bio-Physical Environment of the Corridor Area

6.2.7.1 Land Use/Vegetation. The existing land uses within a one-half mile of the proposed Alafaya Trail extension alignment are primarily undeveloped pine flatwoods and wetland areas (Figure 6.2-3). Approximately 90 feet of the actual corridor has been previously cleared for the construction of the utility pipelines which service the DOC and ICP properties and is part of the Orange County's master system. Grasses and shrubs indicative to disturbed sites which are mowed

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regularly dominate the area. Only Hart Branch has predominantly tree vegetation. This area is considered a mixed hardwood wetland (631). In addition, Cowpen Branch has a few isolated cypress trees (621). Occasional isolated pockets of wetlands exist within this corridor even though they have been disturbed by the existing pipeline corridor which was permitted and constructed in 1987 and 1988.

6.2.7.2 Affected Waters and Wetlands. The corridor crosses only two water bodies, Hart Branch and Cowpen Branch, which are designated as Class III waters as defined in the Florida Administrative Code. Clearing and culverting have occurred within these systems which have altered the natural integrity of the habitats. The proposed Alafaya Trail extension will cross Cowpen Branch at an existing crossing where most of the wetlands have already been cleared and a large culvert and a dirt road exist to date. The crossing at Hart Branch will occur at a narrow section of the wetland. Several existing dirt road crossings occur downstream of the proposed Alafaya Trail extension crossing.

These two crossings are considered wetlands, therefore, "waters of the state," which require a state dredge and fill permit for filling in these systems. Since Cowpen Branch, in the area of the Alafaya Trail crossing, has been determined to qualify for the ditch exemption, pursuant to Section 403.913(4) F.S., only the crossing of Hart Branch will require a dredge and fill permit. A total of 0.54 acre of wetland impact would be required for roadway construction within the Hart Branch's system.

6.2.7.3 Ecology. The Stanton Energy Center is located within the Floridian section of the Atlantic Coastal Plain in eastern Orange County. The natural vegetative communities of the site and along the Alafaya Trail extension are typical of the region and the Big Econolockhatchee River drainage. Nearly level flatwoods predominate, with scattered wetlands and low ridges on the western portion and in the center of the Stanton site. The wetlands, which consist primarily of cypress strands and cypress domes, are aligned in a north-south direction and are often seasonally isolated. Most surface drainage flows in an easterly direction toward the Big Econolockhatchee River. Several low ridges that occur onsite are aligned in a north-south direction. These ridges are west of the Alafaya Trail corridor. Intermediate between these low ridges and the cypress wetlands are longleaf pine flatwoods.

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Longleaf pine (*Pinus palustris*) is the characteristic tree species of the flatwoods. The extremely open canopy of the flatwoods permits development of a rich understory of shrubs and herbaceous species. Saw palmetto (*Serenoa repens*) is the most abundant shrub in the flatwoods; staggerbush (*Lyonia fruticosa*) and shiny lyonia (*Lyonia lucida*) are also common. Wiregrass (*Aristida stricta*) dominates the herbaceous layer, but is accompanied by a diverse array of forbs.

The extreme dryness of the flatwoods in winter and spring, and the highly flammable litter, create a condition conducive to frequent fires. Fire and cattle grazing have maintained the species composition and open structure of the flatwoods onsite prior to construction of Stanton 1. Observations reveal that the site has been subjected to numerous fires in the past, both planned (to improve the quality for livestock grazing) and accidental.

Pine densities and age class of the onsite flatwoods varied depending on a number of factors, including soil and moisture conditions, frequency of fire, and primarily logging history. The entire central Florida area was logged intensively for pine 70 to 80 years ago. Since that time, pulp wood has been periodically harvested from portions of the site. Major recruitment classes of longleaf pine have occurred at about 9.75-year intervals since 1910. Ten recruitment classes from 1910 to 1990 averaged covering about 8 percent of the site. Recruitment pine stands (N=35) for 1960 (best available data), covered about 10 percent of the site, with most patches (60 percent) 2 acres or less in size. One very large recruitment class of 1936 covered about 22 percent of the site, with patches averaging about 70 acres in size. The southern half of the property is dominated by much older trees, apparently from six age classes. The northern half of the site is dominated by pine trees less than 70 years of age, which includes the 1936 age class.

The distribution of animal communities onsite also reflects the range of conditions described above. Species found on the site, such as the red-cockaded woodpecker, are restricted primarily to the pine flatwood habitats. Other species, such as the rufous-sided towhee, while not confined to one habitat type, are more abundant in the dryer situations (xeric oak scrub). No unique species were found in the cypress strands; however, a greater number and variety of wildlife species were observed in these wetlands than in the pine flatwoods and oak scrub.

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During the 1980-81 field surveys, 16 species of mammals, 68 species of birds, 15 species of reptiles, and 9 species of amphibians were observed in the area of concern (Section 2.7 of the original SCA). The preferred habitat and relative abundance of mammals, reptiles, and amphibians observed onsite are listed in Appendix 2.7A and Tables 2.7A-7 and 2.7A-8 of the 1982 SCA.

Prior to Stanton 1, construction logging activity had occurred in most onsite flatwoods. However, this disturbance has not drastically affected the diversity of wildlife present. Some sections, particularly those on the southern portion of the site, are dominated by relatively old (80 years or more) pines. The presence of these older stands has provided habitat for the red-cockaded woodpecker and other species. Other typical flatwoods species included Bachman's sparrow, pine warbler, brown-headed nuthatch, and Sherman's fox squirrel. The central and northern portions of the site have been logged more recently although recruitment of pines has occurred and stands are dominated by younger pine trees.

Endangered and threatened wildlife species occurring along the corridor for the Alafaya Trail include four colonies (clusters of cavity trees used for roosting and nesting) of red-cockaded woodpeckers. The territory associated with these four colonies averages about 278 acres and includes about 9,812 pine trees each (Habitat Management Plan for Red-Cockaded Woodpecker included herein as Exhibit 6.2-12).

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6.2.7.4 Other Environmental Features. There are no other environmental features applicable to the proposed extension of Alafaya Trail.

6.2.8 Effect of Right-of-Way Preparation and Roadway Construction

6.2.8.1 Roadway Construction. The portion of the right-of-way within the 110 feet through the Orlando Utilities Commission property has previously been cleared for installation of a forcemain and watermain. This right-of-way is to be maintained as cleared right-of-way. Within the 180-foot right-of-way, sideslopes will be maintained to the toe of slope. Prior to any clearing and grubbing and construction of the proposed roadway, erosion protection methods will be implemented. This includes the installation of silt fence barriers in areas designed on the plans and approved by permitting agencies.

Several distinct tasks will be required for construction of the proposed roadway. These will include surveying, clearing, road construction, foundation and structure assembly, and cleanup. The tasks will occur in the following sequence and will be separated by several days to several months.

The right-of-way center line and edges and structure sites will be established prior to construction. This task is usually performed by three- to five-person survey teams and requires minimum clearing for a line of sight. Clearing and road construction usually run concurrently because the requirements for heavy equipment are the same. Road construction is necessary where the structure site would be under water or where the terrain will not support the heavy equipment to be used in subsequent phases of work.

In wetlands connected to "waters of the state," chain saws and/or light track shear machines will be used for clearing, and fill material will be hauled in for the construction of roads.

In areas outside of wetlands, the right-of-way will be cleared by heavy track machines using bulldozers and dressed to facilitate future maintenance using wheeled tractors with bush hog mowers. Stumps and cuttings will be piled and burned. The method will depend on the requirements of the Division of Forestry and other conditions at that time.

Fill material for access roads will be hauled in by truck and spread with bulldozers to obtain suitable compaction. Culverts will be installed as the road construction progresses to maintain drainage and water flow.

Construction of concrete foundations makes up the second phase of construction. The equipment required for foundation construction consists of an augering machine mounted on a track or all-wheeled vehicle, ready-mix concrete trucks, water trucks, pile driving equipment, and medium-sized tracked cranes. Each work group will have a bulldozer available to assist in the installation. Tractors, trailers, and light vehicles will be used to transport material and personnel.

The next series of tasks consist of hauling material, assembly of structures, and direction of structures. The structure hardware will probably be hauled to the site by tractors and trailers, then off-loaded with medium-sized truck cranes or all wheeled cranes. Medium-sized all wheel drive trucks will be used to transport personnel and tools. Medium-sized trucks or all wheel drive cranes will be required to move structure components and place the structure for erection. The most common method of erecting the structure is with heavy track cranes. A

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work group will normally place the entire structure in one "Pick." The boom reach will be sufficient to work the tallest structures.

Soil erosion is not a problem with proper design and maintenance. Consequently, each contractor will be required to have sufficient equipment and personnel to maintain roads and to keep the right-of-way clear of debris and materials. Roads will be constructed with slight crowns and slopes. In addition, culverts will be placed at necessary locations to allow for proper sheetflow and prevent road washouts. Turbidity screens will be used as required to maintain water quality. Roads, pastures, lawns, and other open areas will be maintained throughout the construction. If necessary, restoration, including grading the soil and replanting or reseeding disturbed areas of the construction site(s), will be accomplished prior to the end of the construction phase of the project.

6.2.8.2 Impacts on Waterbodies and Uses. The original dredge and fill permit application for the entire Alafaya Trail alignment was submitted to the SJRWMD on January 8, 1990 (Exhibit 6.2-7); however, on August 8, 1990, this permit application was modified to divide the alignment into two parts--the northern extent (OUC properties) and the southern extent (Exhibit 6.2-8). At that time, SJRWMD gave verbal approval of the whole alignment. However, communications from FDER indicated that the alignment through OUC properties (the northern extent) would require modification of the existing permit. Therefore, SJRWMD proceeded with the permitting process for only the southern extent of the alignment. The dredge and fill (wetland resource) and MSSW permit for the southern alignment (outside of OUC boundaries) was issued by the SJRWMD (Exhibits 6.2-4 and 6.2-5). As shown on Table 1A, page 5, of the permit application modification letter to SJRWMD on August 8, 1990, only 1.53 acres of proposed wetland impacts are "waters of the state" wetlands of which only 0.54 acre (Hart Branch) would require a permit to impact since the other two wetlands qualify for a ditch block exemption pursuant to Section 403.913(4) F.S.

The specifications showing the location of the proposed Alafaya Trail alignment are included in the construction plans which are attached as Exhibit 6.2-9.

The plan and profile sheets are found on Sheets 18 through 26 of the construction plans.

Specifications of the structures at Hart Branch are shown on Sheet 133 of the construction plans.

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The design capacities of the structures and the drainage calculations are attached as Exhibit 6.2-10.

The Joint Application form (DER Form 17-1.203[1]) is included in Subsection 10.6.2. This application includes all currently available design information regarding the wetland impacts of the proposed extension of Alafaya Trail from the north boundary of the Stanton Energy Center to a location approximately 3,000 feet south of the Bee Line Expressway.

6.2.8.3 Solid Wastes. Wastes generated during construction of the proposed roadway will consist of construction material debris and cleared vegetation. Cleared vegetation and other combustible materials will be burned on the right-of-way, following applicable regulations regarding open burning. Noncombustible materials will be collected and disposed of at local landfills or other approved disposal sites. No other form of solid waste will be produced during the construction of the roadway.

6.2.8.4 Changes to Vegetation, Wildlife, and Aquatic Life. Approximately 1.53 acres of "waters of the state" wetlands will be impacted by the proposed Alafaya Trail extension project. However, 0.99 acre of this acreage has been qualified for the ditch block exemption pursuant to Section 403.913(4), F.S. Therefore, only 0.54 acre (Hart Branch) of "waters of the state" wetlands is proposed to be impacted by Alafaya Trail extension on the OUC properties and permitted through this permit modification process.

To compensate for this loss of wetlands and for all impacts to wetlands for the entire length of the proposed Alafaya Trail extension project, a mitigation plan has been developed through extensive designing and coordination with local, state, and federal permitting agencies. This plan is attached as Exhibit 6.2-11 and has been approved by the SJRWMD, Orange County, ACOE, EPA, USFWS, and FGFWFC.

The total wetland impacts for the entire length of the roadway will be 20.08 acres of SJRWMD wetlands, 17.26 acres of ACOE wetlands, and 6.54 acres of Orange County wetlands. The maximum extent of impact to wetlands is 20.08 acres.

The approved mitigation plan provides for the creation of six different wetland types on Parcel 9 of the International Corporate Park site for a total of 37.31 acres: wetland shrub island (1.12 acres); freshwater marsh (8.28 acres); deep

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water aquatic (1.87 acres); shallow water aquatic (3.26 acres); cypress-dominated wetland (20.31 acres); and mixed hardwood wetland (2.47 acres). The wetland impacts from the proposed Alafaya Trail extension include only four wetland types, one of which is manmade: cypress, mixed forested wetland, wet prairie, and upland cut drainage ditch. The proposed wetland shrub islands which are surrounded by deep water aquatic habitats and buffered from development by expansive wetland areas will provide habitat that should serve as rookery sites for wading birds. The numerous lakes with littoral zones and wetland mitigation sites proposed at ICP buildout will supply forage habitat for wading birds, many species of which are onsite now, but breed elsewhere.

Approximately 12.7 acres of upland pine forest will be converted to surface runoff ponds during construction of the Alafaya Trail extension through the Stanton Energy Center. All of these pond areas are adjacent to the road and were located to avoid impacting any substantial amounts of foraging resources for red-cockaded woodpeckers. Neither the construction of the ponds nor any aspect of the roadway will be in proximity to the colony sites. The Alafaya Trail extension will use the existing corridor of the newly constructed pipelines on the eastern portion of the Stanton Energy Center property. Further discussions on the potential changes to the woodpecker population are provided in Exhibits 6.2-12, 6.2-13, and 6.2-14.

Mitigation measures were developed for red-cockaded woodpeckers:

- (1) A demonstration colony creation project.
- (2) Habitat enhancement procedure.
- (3) A routine monitoring program.

These actions will result in population increase and improvements in overall foraging habitat quality. Exhibit 6.2-15 provides a description of the various mitigation procedures and their overall importance to red-cockaded woodpeckers in this area.

6.2.8.5 Impact on Human Population. The Stanton Energy Center is located in a sparsely populated area, and impacts on humans during the road construction will be minimal. There will be some increase in noise levels during construction, but most of the noise impacts will be confined to the Stanton Energy Center site.

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Because of the relatively remote location of the construction site, there should be little, if any, noticeable effect on traffic as the result of the movement of materials and workers.

Impacts to air quality, if any, will be negligible from the construction of the roadway.

6.2.8.6 Impact on Regional Scenic, Cultural, and Natural Landmarks. There are no regional scenic, cultural, or natural landmarks that will be affected by the proposed extension of Alafaya Trail.

6.2.8.7 Impact on Archaeological and Historic Sites. There are no archaeological or historic sites within the right-of-way of the proposed extension of Alafaya Trail.

6.2.9 Post-Construction Impacts and Effects of Maintenance

6.2.9.1 Maintenance Techniques. The road will require periodic inspection, maintenance, cleaning, and occasional repair work. These activities will help to maintain serviceability and safety and to prolong the service life of the road. Inspection of the pavement structure (asphalt, base, and drainage system) will be done on a seasonal basis and also after any severe weather. Early detection and prompt repair of any of the damaged portions of the structure will be a part of the regular inspection and maintenance program. Orange County will own the roads. Accordingly, Orange County will be responsible for periodic inspection, maintenance, cleaning, and occasional repair work for the life of the road.

6.2.9.2 Multiple Uses. The road will serve the public as a north-south public road in east Orange County. Access to the property, however, will remain restricted. The property bordering the right-of-way will be posted, and a fence may be erected to prevent access to the Stanton Energy Center from the road right-of-way. Additionally, the road will provide important non-toll access to the DOC prison complex and to International Corporate Park.

6.2.9.3 Changes in Species Populations. No significant long-term changes will occur in the populations of threatened or endangered species or species of special concern within the road alignment as a result of construction and maintenance of the road. However, with the implementation of ICP's Red-Cockaded Woodpecker Management Plan, the population of RCWs on the Stanton Energy Center property is expected, at a minimum, to stabilize and not to decrease as is the

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current situation without the road. Long-term expectations under ICP's management plan are that the RCW population should increase.

6.2.9.4 Effects of Public Access. A low probability exists that some RCWs, while flying over the road, will collide with vehicles (Exhibit 6.2-14).

6.2.10 Other Post-Construction Effects

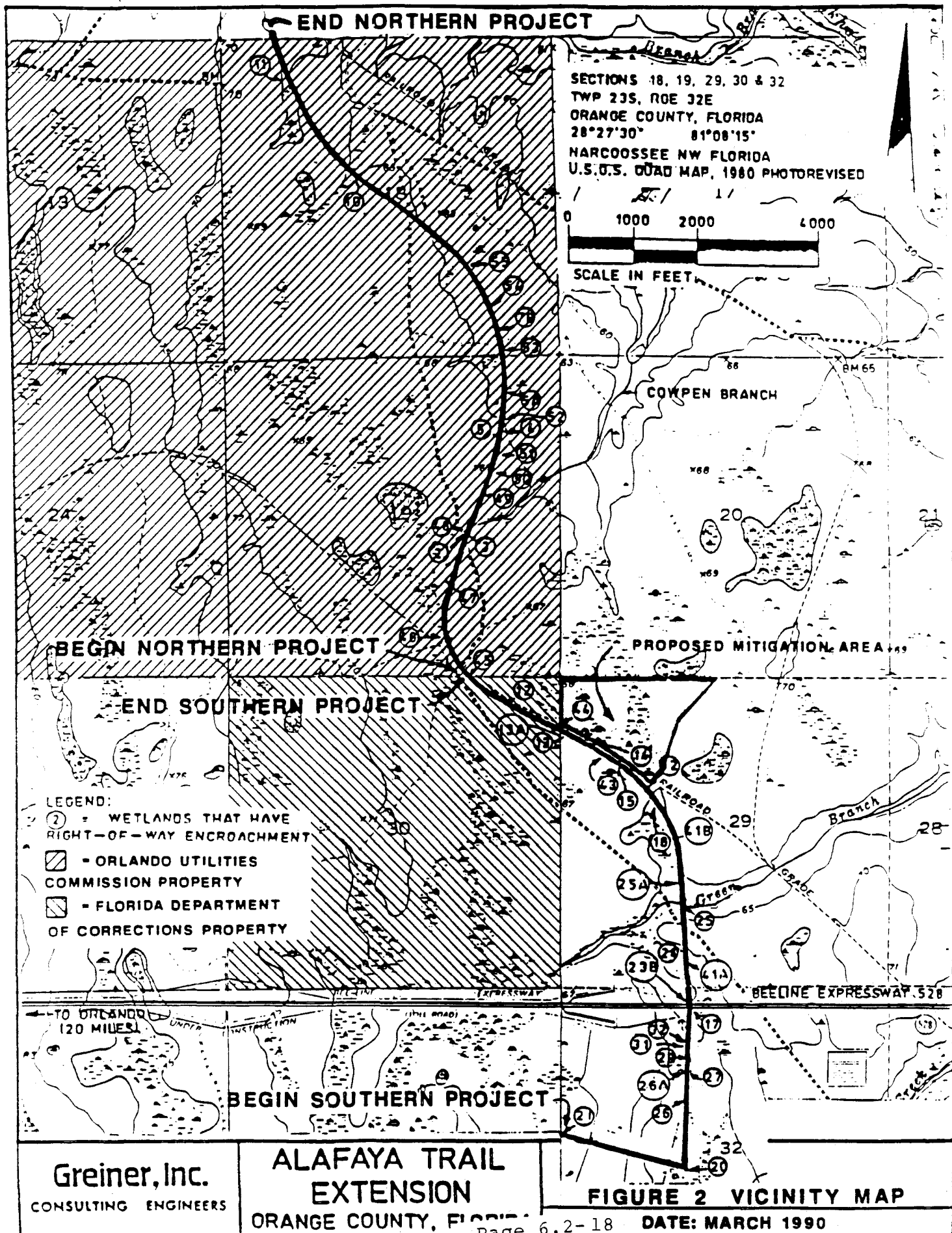
Currently, OUC is not required under its certification (including its supplemental certification) to actively manage the RCW population and habitat in order to increase the viability of the RCW population. Other than a prescribed burning program, OUC must merely manage the Red-Cockaded Management Area in its natural state. Over the last ten years while the RCW Management Area was managed in its natural state, the population of RCWs on the Stanton Energy Center property has declined from nine active colonies in 1981 to six such colonies in 1991.

The road will not significantly affect the RCW population on the Stanton Energy Center property. The road will impact the RCW habitat by causing a slight loss of foraging habitat. However, if the road is constructed, the RCW impacts will be mitigated pursuant to "The Curtis H. Stanton Energy Center, Habitat Management Plan for Red-Cockaded Woodpeckers." It is expected that the requirements of the RCW Habitat Management Plan will substantially increase the chance of the long-term survival of the RCWs on the Stanton Energy Center property. The RCW Habitat Management Plan requires the road builder to plant pine trees to improve the RCW foraging habitat, to create artificial cavities in pine trees to facilitate population expansion, and to actively monitor the RCW population on the property.

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Image Quality

As you review the next group of images, Please note that the original documents were of poor quality.





LAND USE / VEGETATION MAP

Figure 6.2.3 Page 1 of 1

Page 6.2-19

CENTRAL FLORIDA DISTRICT

3319 MAGUIRE BOULEVARD
SUITE 232
ORLANDO, FLORIDA 32803-3767



OCT 19 1987

FILE NO. 3450-1

CC: FSE FDER
10/19/87

BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
ALEX ALEXANDER
DISTRICT MANAGER

October 15, 1987

OCF-DF-87-0213

Mr. Thomas A. Cloud
Gray, Harris & Robinson
Suite 1200
Southeast Bank Building
201 East Pine Street
Post Office Box 3068
Orlando, Florida 32802

Orange County - D/F
International Corporate Park (ICP)

Dear Mr. Cloud:

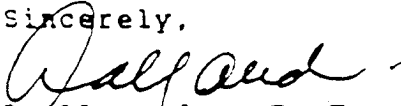
Thank you for promptly supplying the minutes of the October 8, 1987 meeting in regard to the International Corporate Park (ICP) project. One purpose of this meeting was to clarify the necessity of dredge and fill permits for activities conducted due to the proposed pipeline installation.

Although it was not apparent at the meeting, department personnel and Bill Grey of Breedlove, Dennis and Associates conducted an informal jurisdictional determination on May 1, 1987 of a large portion of the Florida Department of Corrections' property. This inspection clearly describes areas in addition to Hart Branch as being within the landward extent of waters of the state pursuant to Rule 17-4.022, Florida Administrative Code. It is a valid assumption that if ICP bores and jacks below jurisdictional wetlands, such as Hart Branch, to install the pipelines and the construction proceeds from upland to upland, a dredge and fill permit would not be required for the activity. However, your letter also reflects your belief that no dredge and fill permit would be required to extend the pipeline through the remainder of the Florida Department of Corrections' property. Department personnel inspected two potential pipeline crossings of wetlands with representatives of Breedlove, Dennis and Associates on October 9, 1987 to determine the necessity of a dredge and fill permit. Based upon the on-site meeting and the drawings which depict the proposed crossings, it appears that one of the crossings will require a dredge and fill

permit. It seems that one crossing, which will require a permit, involves removal and replacement of an 18-inch diameter steel culvert. If the bore and jack technique is utilized at this crossing so that manipulation of the existing culvert is not involved and all construction activities occur on the existing upland roadbed, a dredge and fill permit will not be required. The other crossing which involves vertical extension of a headwall, road elevation and installation of the two pipelines above the existing concrete pipes in the roadbed will not require a dredge and fill permit.

Please advise if any additional information is required.

Sincerely,


A. Alexander, P. E.
District Manager

MSA
AA:mah

May 1, 1989

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Upon a motion by Commissioner Dorman, seconded by Commissioner Donegan, and carried with all present commissioners voting AYE by voice vote; Commissioner Chapin being absent; the Board overturned the decision of the Planning and Zoning Commission and denied the request for a change in zoning classification from R-2 to R-3 by RTI of Orlando, Inc, on the above described property.

PUBLIC HEARING - CONSIDER THE ALIGNMENT AND CROSS SECTION FOR THE PROPOSED EXTENSION OF ALAFAYA TRAIL - DISTRICT 13

Notice was given that the Board of County Commissioners would hold a public hearing to consider:

Alignment and typical cross section for the proposed Alafaya Trail Extension from the end of the existing road in a southerly direction to a point approximately 0.3 miles South of the Deeline.

County Engineer George Cole presented a cross section of the proposal which is to construct an initial two-lane rural roadway. He recommended approval, as presented, subject to completion of final engineering to resolve any engineering or environmental questions that may arise.

Tom Cloud, Esq., of Gray, Harris and Robinson, P.A., stated that they have received all of the required permits to date, with the exception of those for the recertification of the Curtis Stanton Energy Center and the necessary permit crossings over wetlands.

A representative of Breedlove, Dennis & Associates explained that his organization conducted some of the environmental analysis and determined that this alignment allowed for the least impact on environmentally sensitive lands, such as wetlands, and woodpecker habitats.

Upon a motion by Commissioner Marston, seconded by Commissioner Donegan, and carried with all commissioners present and voting AYE by voice vote; Commissioner Chapin was absent; the Board approved staff recommendation concerning the alignment and cross section for the proposed extension of Alafaya Trail.

PUBLIC HEARING - LUCY E. BARAGNESI - BOARD OF ZONING ADJUSTMENT 123
(CONTINUED FROM 4/10/89) - DISTRICT 13

It was the consensus of the Board to continue with the public hearing under the name of Lucy E. Baragnesi, continued from April 10, 1989 Board meeting.

Assistant Zoning Director Joanne McMurray stated that the public hearing was continued, pending the outcome of the meeting this date regarding service-oriented uses in P-O districts.

An unidentified citizen spoke in favor of this request and no one appeared in opposition.

Upon a motion by Commissioner Marston, seconded by Commissioner Donegan, and carried with Commissioners Marston, Donegan, and Dorman voting AYE by voice vote; Commissioner Carter voting NO by voice vote; Commissioner Chapin being absent; the Board approved the request by Lucy E. Baragnesi for a special exception in P-O zone for a beauty shop integrated within a primary use structure and oriented

OFFICE OF COMPTROLLER



ORANGE
COUNTY
FLORIDA

Martha O. Haynie
Clerk to the Board of County Commissioners
201 S. Rosalind Avenue
Post Office Box 38
Orlando, Florida 32802-0038
Telephone (407) 236-7300

November 22, 1989

RECEIVED

AUG 23 1990

International Corporate Park, Inc.
933 Lee Road, Suite 400
Orlando, Florida 32810

HUEY, GUILDAY,
KUERSTEINER & TUCKER, P.A.

Gentlemen:

On November 20, 1989, at a meeting of the Board of County Commissioners a motion was made by Commissioner Marston, seconded by Commissioner Donegan, and carried with all Commissioners present and voting AYE by voice vote: to approve water main and force main for maintenance at I.C.P. off-site water main and wastewater main, NOT PLATTED.

Sincerely,

MARTHA O. HAYNIE, Clerk
Board of County Commissioners of
Orange County, Florida

By: Mary Jo Harrison
Deputy Clerk

MOH:MJG:rhs
Enclosure

c: George Cole, Engineering Department

APPROVED BY THE BOARD OF COUNTY
COMMISSIONERS AT THEIR MEETING

NOV 20 1989

DISTRICT 5

A P P R O V A L F O R M A I N T E N A N C E

This is to certify that the following facilities: Water main
and force main

Constructed By: International Corporate Park, Inc.

(address): 933 Lee Road, Suite 400, Orlando, Florida 32810

In the development of: I.C.P. Off-Site Water Main and Wastewater

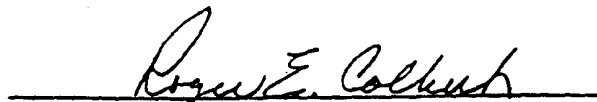
Force Main

as recorded in Plat Book NOT, Page(s) PLATTED, Orange
County Records, have been completed in form and manner acceptable for
maintenance by ORANGE COUNTY, FLORIDA.

CONTRACTOR: Southeastern Utilities

THIS CONSTITUTES FINAL ACCEPTANCE FOR MAINTENANCE BY ORANGE COUNTY AND
RELEASED THE DEVELOPER FROM RESPONSIBILITY FOR MAINTENANCE OF THE
LISTED FACILITIES.

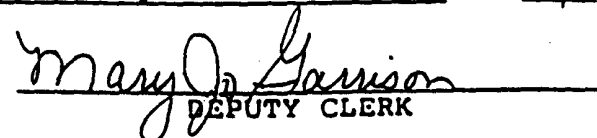

SENIOR INSPECTOR


STAFF ENGINEER


WILLIAM J. MASI, P.E.
MANAGER

EXECUTED BY ORDER OF THE BOARD OF COUNTY COMMISSIONERS, ORANGE COUNTY,
FLORIDA, THIS 20th DAY OF November, 1989.


CHAIRMAN

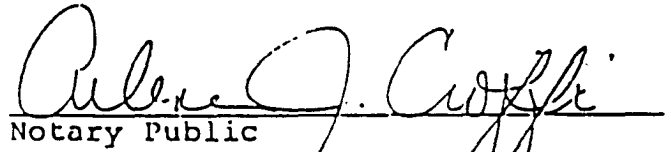

DEPUTY CLERK

(SEAL)

STATE OF FLORIDA

COUNTY OF ORANGE

On this 27th day of October, 1988 before me personally came James L. Clark, to me personally known, who, being by me duly sworn, did depose and say that he is the Senior Vice President of International Corporate Park, Inc., a Florida Corporation, which corporation is a general partner of ICP Investors Limited, a Florida limited partnership, which limited partnership is a general partner of ICP Associates, a Florida general partnership, the general partnership described in and which executed the above instrument; and that he signed his name thereto by authority of the board of directors of such corporation as general partner of such limited partnership.


Notary Public

(NOTARIAL SEAL)

My commission expires:

NOTARY PUBLIC, STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES SEPT. 01, 1992
BONDED THRU HUCKLEBERRY & ASSOCIATES

BILL OF SALE
SEWER AND WATER SYSTEMS

RECEIVED

AUG 23 1990

International Corporate Park, Incorporated, a Florida corporation,
and ICP Investors, Ltd. and ICP Associates
located at 933 Lee Road, Ste. 400, Orlando, FL 32810

HUEY, GUILDAY,

KUEFSTEINER & GORDON, P.A.

Orange, State of Florida, Seller, for and in consideration of the sum of One (\$1.00) Dollar and other valuable consideration paid to Seller by County of Orange, a political subdivision of the State of Florida, Buyer, receipt of which is hereby acknowledged does grant, sell, transfer, convey and deliver to Buyer all pipes, lines, gate valves, valve boxes, fittings, thrust blocks, hydrants, equipment, lift stations and other goods which comprise the water and sewer system installed by Seller and located on the following County easements or rights-of-way as shown on the record drawings, more specifically described as follows:

PROJECT: International Corporate Offsite Water Transmission Main

and Wastewater Force Main

Buyer shall have all rights and title to the goods in itself and its assigns.

Seller warrants that it is lawful owner of the goods and the goods are free from all liens and encumbrances. Seller has good right to sell the goods and will warrant and defend the right against the lawful claims and demands of all persons.

IN WITNESS WHEREOF, Seller has executed this Agreement at

Orlando

Florida on October 27, 1981

SIGNED, SEALED AND DELIVERED

James L. Clark

IN THE PRESENCE OF:

By:

James L. Clark

S.K.U. Pres., Jap. Inc.

Managing General Partner

for ICP Investors, Ltd.

Managing General Partner

Lin J. Murray

(Witness)

Page 6.2-26

ATTEST:



**WATER
MANAGEMENT
DISTRICT**

Henry Dean, Executive Director

John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500

FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4125

FIELD STATIONS			
618 E. South Street Orlando, Florida 32801 407/894-8423	7775 Baymeadows Way Suite 102 Jacksonville, Florida 32256 904/730-6270	PERMITTING 305 East Drive Melbourne, Florida 32904 407/864-4940	OPERATIONS 2133 N. Wickham Road Melbourne, Florida 32935-81 407/254-1762

JULY 9, 1991

INTERNATIONAL CORPORATE PARK
8245 ICP BOULEVARD
ORLANDO FL 32832

RECEIVED

SEP 23 1991

EMD

**SUBJECT: WETLAND RESOURCE PROJECT
PERMIT NUMBER 12-095-0040M2**

ENCLOSED IS YOUR PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON JULY 9, 1991. THIS PERMIT WILL EXPIRE ON JULY 9, 1996.

THIS PERMIT IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. THE ATTACHED COMPLETION REPORT SHOULD BE FILLED IN AND RETURNED TO THE PALATKA OFFICE WITHIN THIRTY DAYS AFTER THE WORK IS COMPLETED. BY SO DOING, YOU WILL ENABLE US TO SCHEDULE A PROMPT INSPECTION OF THE PERMITTED ACTIVITY.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER, IF WE ARE NOTIFIED BY YOU WITHIN NINETY DAYS OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THANK YOU FOR YOUR COOPERATION AND IF THIS OFFICE CAN BE OF ANY FURTHER ASSISTANCE TO YOU, PLEASE DO NOT HESITATE TO CONTACT US.

SINCERELY,

Lacy Livingston

LACY LIVINGSTON, DATA CONTROL TECHNICIAN
DIVISION OF RECORDS

ENCLOSURES: PERMIT WITH COMPLETION REPORT

CC: DISTRICT PERMIT FILE
VICKI CURTIS
MARGARET LANGWORTHY, CORPS OF ENGINEERS
DER
DER FIELD OFFICE

Sandra H. Gray, CHAIRMAN
DE BARY

Joe E. Hill, VICE CHAIRMAN
LEESBURG

Joseph D. Collins, TREASURER
JACKSONVILLE

Merrill C. Fore, SECRETARY
OCALA

Jesse J. Parnish, III
TITUSVILLE

Ralph E. Simmons
FERNANDINA BEACH

Patricia T. Harden
SANFORD

Lenore N. McCullough
ORANGE PARK

James H. William
OCALA

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Post Office Box 1429
Palatka, Florida 32178-1429

PERMIT NO. 12-093-006042

DATE ISSUED JULY 9, 1991

WETLAND RESOURCE PROJECT

A PERMIT AUTHORIZING:

**THE EXCAVATION OF 7625244.0 CUBIC YARDS OF MATERIAL AND PLACEMENT
OF 0.00 CUBIC YARDS OF FILL MATERIAL IN WATERS OF THE STATE FOR
CONSTRUCTION OF A MITIGATION AREA.**

LOCATION:

**SECTION 29, 30, 31, 32, TOWNSHIP 23 SOUTH, RANGE 32 EAST
ORANGE COUNTY**

ISSUED TO:
(owner)

**INTERNATIONAL CORPORATE PARK
8248 ICP BOULEVARD
ORLANDO FL 32832**

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This Permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes.

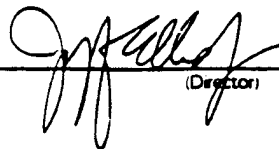
PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED JULY 9, 1991

AUTHORIZED BY: St. Johns River Water Management District

Department of Resource Management Governing Board

By: _____


(Director)

JEFF ELLEDGE

By: _____


(Assistant Secretary)

HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 12-095-0060M2

INTERNATIONAL CORPORATE PARK

DATED JULY 9, 1991

1. THE TERMS, CONDITIONS, REQUIREMENTS, LIMITATIONS, AND RESTRICTIONS SET FORTH IN THIS PERMIT, ARE "PERMIT CONDITIONS" AND ARE BINDING AND ENFORCEABLE PURSUANT TO SECTIONS 403.747, 403.727, OR 403.859 THROUGH 403.861, FLORIDA STATUTES. THE PERMITTEE IS PLACED ON NOTICE THAT THE DISTRICT WILL REVIEW THIS PERMIT PERIODICALLY AND MAY INITIATE ENFORCEMENT ACTION FOR ANY VIOLATION OF THESE PERMIT CONDITIONS.
2. THIS PERMIT IS VALID ONLY FOR THE SPECIFIC PROCESSES AND OPERATIONS APPLIED FOR AND INDICATED IN THE APPROVED DRAWINGS OR EXHIBITS. ANY UNAUTHORIZED DEVIATION FROM THE APPROVED DRAWINGS, EXHIBITS, SPECIFICATIONS, OR CONDITIONS OF THIS PERMIT MAY CONSTITUTE GROUNDS FOR REVOCATION AND ENFORCEMENT ACTION BY THE DISTRICT.
3. AS PROVIDED IN SUBSECTIONS 403.087(6), AND 403.722(5), FLORIDA STATUTES, THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY VESTED RIGHTS OR ANY EXCLUSIVE PRIVILEGES. NEITHER DOES IT AUTHORIZE ANY INJURY TO PUBLIC OR PRIVATE PROPERTY OR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE, OR LOCAL LAWS OR REGULATIONS. THIS PERMIT IS NOT A WAIVER OF OR APPROVAL OF ANY OTHER DER OR DISTRICT PERMIT THAT MAY BE REQUIRED FOR OTHER ASPECTS OF THE TOTAL PROJECT WHICH ARE NOT ADDRESSED IN THIS PERMIT.
4. THIS PERMIT CONVEYS NO TITLE TO LAND OR WATER, DOES NOT CONSTITUTE STATE RECOGNITION OR ACKNOWLEDGEMENT OF TITLE, AND DOES NOT CONSTITUTE AUTHORITY FOR THE USE OF SUBMERGED LANDS UNLESS HEREIN PROVIDED AND THE NECESSARY TITLE OR LEASEHOLD INTERESTS HAVE BEEN OBTAINED FROM THE STATE. ONLY THE TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND MAY EXPRESS STATE OPINION AS TO TITLE.
5. THIS PERMIT DOES NOT RELIEVE THE PERMITTEE FROM LIABILITY FOR HARM OR INJURY TO HUMAN HEALTH OR WELFARE, ANIMAL, OR PLANT LIFE, OR PROPERTY CAUSED BY THE CONSTRUCTION OR OPERATION OF THIS PERMITTED SOURCE, OR FROM PENALTIES THEREFOR; NOR DOES IT ALLOW THE PERMITTEE TO CAUSE POLLUTION IN CONTRAVENTION OF FLORIDA STATUTES AND DEPARTMENT OF ENVIRONMENTAL REGULATION (DER) RULES, UNLESS SPECIFICALLY AUTHORIZED BY AN ORDER FROM THE DER OR DISTRICT.
6. THE PERMITTEE SHALL PROPERLY OPERATE AND MAINTAIN THE FACILITY AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) THAT ARE INSTALLED AND USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT, AS REQUIRED BY DEPARTMENT RULES. THIS PROVISION INCLUDES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT AND WHEN REQUIRED BY DEPARTMENT RULES.
7. THE PERMITTEE, BY ACCEPTING THIS PERMIT, SPECIFICALLY AGREES TO ALLOW AUTHORIZED DISTRICT PERSONNEL, UPON PRESENTATION OF CREDENTIALS OR OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW AND AT REASONABLE TIMES, ACCESS TO THE PREMISES WHERE THE PERMITTED ACTIVITY IS LOCATED OR CONDUCTED TO:
 - (A) HAVE ACCESS TO AND COPY ANY RECORDS THAT MUST BE KEPT UNDER CONDITIONS OF THE PERMIT;

(B) INSPECT THE FACILITY, EQUIPMENT, PRACTICES, OR OPERATIONS REGULATED OR REQUIRED UNDER THIS PERMIT; AND

(C) SAMPLE OR MONITOR ANY SUBSTANCES OR PARAMETERS AT ANY LOCATION REASONABLE NECESSARY TO ASSURE COMPLIANCE WITH THIS PERMIT OR DEPARTMENT RULES.

REASONABLE TIME MAY DEPEND ON THE NATURE OF THE CONCERN BEING INVESTIGATED.

5. IF, FOR ANY REASON, THE PERMITTEE DOES NOT COMPLY WITH OR WILL BE UNABLE TO COMPLY WITH ANY CONDITION OR LIMITATION SPECIFIED IN THIS PERMIT, THE PERMITTEE SHALL IMMEDIATELY PROVIDE THE DISTRICT WITH THE FOLLOWING INFORMATION:

(A) A DESCRIPTION OF AND CAUSE OF NON-COMPLIANCE; AND

(B) THE PERIOD OF NONCOMPLIANCE, INCLUDING DATES AND TIMES; OR, IF NOT CORRECTED, THE ANTICIPATED TIME THE NON-COMPLIANCE IS EXPECTED TO CONTINUE, AND STEPS BEING TAKEN TO REDUCE, ELIMINATE, AND PREVENT RECURRENCE OF THE NON-COMPLIANCE.

THE PERMITTEE SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY RESULT AND MAY BE SUBJECT TO ENFORCEMENT ACTION BY THE DISTRICT FOR PENALTIES OR REVOCATION OF THIS PERMIT.

7. IN ACCEPTING THIS PERMIT, THE PERMITTEE UNDERSTANDS AND AGREES THAT ALL RECORDS, NOTES, MONITORING DATA AND OTHER INFORMATION RELATED TO THE CONSTRUCTION OR OPERATION OF THIS PERMITTED SOURCE, WHICH ARE SUBMITTED TO THE DISTRICT MAY BE USED BY THE DISTRICT AS EVIDENCE IN ANY ENFORCEMENT CASE INVOLVING THE PERMITTED SOURCE ARISING UNDER THE FLORIDA STATUTES OR DEPARTMENT RULES, EXCEPT WHERE SUCH USE IS PRESCRIBED BY SECTIONS 403.111 AND 403.73, FLORIDA STATUTES. SUCH EVIDENCE SHALL ONLY BE USED TO THE EXTENT IT IS CONSISTENT WITH THE FLORIDA RULES OF CIVIL PROCEDURE AND APPROPRIATE EVIDENTIARY RULES.

10. THE PERMITTEE AGREES TO COMPLY WITH CHANGES IN DEN RULES AND FLORIDA STATUTES AFTER A REASONABLE TIME FOR COMPLIANCE, PROVIDED, HOWEVER, THE PERMITTEE DOES NOT WAIVE ANY OTHER RIGHTS GRANTED BY FLORIDA STATUTES OR DEN RULES.

11. THIS PERMIT IS TRANSFERABLE ONLY UPON DISTRICT APPROVAL IN ACCORDANCE WITH RULES 17-4.120 AND 17-30.300, FLORIDA ADMINISTRATIVE CODE, AS APPLICABLE. THE PERMITTEE SHALL BE LIABLE FOR ANY NON-COMPLIANCE OF THE PERMITTED ACTIVITY UNTIL THE TRANSFER IS APPROVED BY THE DISTRICT.

12. THIS PERMIT OR A COPY THEREOF SHALL BE KEPT AT THE WORK SITE OF THE PERMITTED ACTIVITY.

13. THIS PERMIT ALSO CONSTITUTES:

(A) DETERMINATION OF BEST AVAILABLE CONTROL TECHNOLOGY (BACT);

(B) DETERMINATION OF PREVENTION OF SIGNIFICANT DEGRADATION (PSD);

(C) IDENTIFICATION OF COMPLIANCE WITH STATE WATER QUALITY STANDARDS (SECTION 401, PL 92-500), AND

(D) COMPLIANCE WITH NEW SOURCE PERFORMANCE STANDARDS.

14. THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING:

- (A) UPON REQUEST, THE PERMITTEE SHALL FURNISH ALL RECORDS AND PLANS REQUIRED UNDER DER RULES. DURING ENFORCEMENT ACTIONS, THE RETENTION PERIOD FOR ALL RECORDS WILL BE EXTENDED AUTOMATICALLY UNLESS OTHERWISE STIPULATED BY THE DISTRICT.
- (B) THE PERMITTEE SHALL HOLD AT THE FACILITY OR OTHER LOCATION DESIGNATED BY THIS PERMIT RECORDS OF ALL MONITORING INFORMATION (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) REQUIRED BY THE PERMIT, COPIES OF ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE APPLICATION FOR THIS PERMIT. THESE MATERIALS SHALL BE RETAINED AT LEAST THREE YEARS FROM THE DATE OF THE SAMPLE, MEASUREMENT, REPORT OR APPLICATION UNLESS OTHERWISE SPECIFIED BY DEPARTMENT RULE.

(C) RECORDS OF MONITORING INFORMATION SHALL INCLUDE:

- 1. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
- 2. THE PERSON RESPONSIBLE FOR PERFORMING THE SAMPLING OR MEASUREMENTS;
- 3. THE DATES ANALYSES WERE PERFORMED;
- 4. THE PERSON RESPONSIBLE FOR PERFORMING THE ANALYSES;
- 5. THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
- 6. THE RESULT OF SUCH ANALYSES.

- 15. WHEN REQUESTED BY THE DISTRICT, THE PERMITTEE SHALL WITHIN A REASONABLE TIME FURNISH ANY INFORMATION REQUIRED BY LAW WHICH IS NEEDED TO DETERMINE COMPLIANCE WITH THE PERMIT. IF THE PERMITTEE BECOMES AWARE THAT RELEVANT FACTS WERE NOT SUBMITTED OR WERE INCORRECT IN THE PERMIT APPLICATION OR IN ANY REPORT TO THE DISTRICT, SUCH FACTS OR INFORMATION SHALL BE CORRECTED PROMPTLY.
- 16. THIS PERMIT SUPERSEDES ALL OF THE CONDITIONS RELATIVE TO RELOCATION APPROVED PERMIT #12-095-0040, ISSUED IN OCTOBER 1990.
- 17. ALL CORRESPONDENCE, SUBMITTALS, AND NOTIFICATIONS REQUIRED BY THE FOLLOWING PERMIT CONDITIONS MUST BE SUBMITTED TO THE ORLANDO FIELD DISTRICT OFFICE AT 618 EAST SOUTH STREET, ORLANDO, FLORIDA 32801.
- 18. THE RELOCATION AREA MUST BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS RECEIVED ON APRIL 26, 1991.
- 19. THIS PERMIT FOR CONSTRUCTION WILL EXPIRE FIVE YEARS FROM THE DATE OF ISSUANCE.
- 20. THE PERMITTEE SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY, INCLUDED BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSPORTING SUSPENDED SOLIDS INTO THE RECEIVING WATERBODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED, AND DISTURBED SOILS ARE STABILIZED. THEREAFTER, THE PERMITTEE MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-306, FLORIDA

21. ALL WETLAND AREAS OR WATER BODIES WHICH ARE OUTSIDE OF THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT MUST BE PROTECTED FROM EROSION, SILTATION, SCOURING, OR EXCESS TURBIDITY OF DEWATERING.
22. THE PERMITTEE IS HEREBY ADVISED THAT PURSUANT TO SECTION 403.922, FLORIDA STATUTES NO PERSON SHALL COMMENCE ANY EXCAVATION, CONSTRUCTION, OR OTHER ACTIVITY INVOLVING THE USE OF SOVEREIGN OR OTHER LANDS OF THE STATE, TITLE TO WHICH IS VESTED IN THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND (BOARD TRUSTEES) OR THE DEPARTMENT OF NATURAL RESOURCES UNDER CHAPTER 253, F.S. UNTIL SUCH PERSON HAS RECEIVED FROM THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND, THE REQUIRED LEASE, LICENSE, EASEMENT, OR OTHER FORM OF CONSENT AUTHORIZING THE PROPOSED USE. PURSUANT TO CHAPTER 18-74, FLORIDA ADMINISTRATIVE CODE, IF DONE WITHOUT CONSENT, OR IF A PERSON OTHERWISE WILLFULLY DAMAGES STATE LAND OR WILLFULLY DAMAGES OR REMOVES PRODUCTS OF STATE LAND IN VIOLATION OF STATE OR FEDERAL LAW, THE BOARD OF TRUSTEES MAY LEVY ADMINISTRATIVE FINES UP TO \$10,000 PER OFFENSE.
23. IF HISTORICAL OR ARCHEOLOGICAL ARTIFACTS ARE DISCOVERED AT ANY TIME WITHIN THE PROJECT SITE, THE PERMITTEE SHALL IMMEDIATELY HALT CONSTRUCTION AND NOTIFY THE DISTRICT'S ORLANDO OFFICE AND THE DIVISION OF HISTORICAL RESOURCES, R.A. GRAY BUILDING, TALLAHASSEE, FLORIDA, 32399-0230.
24. THE PROJECT SHALL COMPLY WITH APPLICABLE STATE WATER QUALITY STANDARDS, NAMELY:
 - A. 17-302.300 - MINIMUM CRITERIA FOR ALL SURFACE WATERS AT ALL PLACES AND AT ALL TIMES;
 - B. 17-302.310 - SURFACE WATERS: GENERAL CRITERIA, AND,
 - C. 17-302.320 - CLASS III WATERS: RECREATION, PROPAGATION, AND MAINTENANCE OF A HEALTHY, WELL-BALANCED POPULATION OF FISH AND WILDLIFE.
25. GRASS AND MULCH OR SOD MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF COMPLETING FINAL GRADE, AND AT ANY OTHER TIME TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES INTO WATERS OF THE STATE.
26. AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK AUTHORIZED BY THIS PERMIT, THE PERMITTEE MUST PROVIDE TWO WRITTEN COPIES OF WRITTEN NOTIFICATION OF THE SCHEDULED DATE OF COMMENCEMENT TO THE DISTRICT'S ORLANDO FIELD OFFICE.
27. ALL CONTRACTORS MUST BE PROVIDED A COPY OF THE PERMIT CONDITIONS BEFORE BEGINNING CONSTRUCTION.
28. PRIOR TO CONSTRUCTION, THE PERMITTEE MUST CLEARLY DELINEATE THE LIMITS OF CONSTRUCTION IN WATERS OF THE STATE. THE PERMITTEE MUST ADVISE THE CONTRACTOR THAT ANY WORK WITHIN WATERS OF THE STATE, OUTSIDE THE LIMITS OF CONSTRUCTION, INCLUDING CLEARING, IS A VIOLATION OF THIS PERMIT.
29. THE WATERS OF THE STATE LINES SHOWN ON THE ATTACHED PLANS ARE ONLY BINDING UPON THE DISTRICT AND THE DER IN THOSE SPECIFIC LOCATIONS WHERE DREDGING AND FILLING IS AUTHORIZED BY THIS PERMIT. THE PORTIONS OF THE WETLAND LINE SHOWN WHICH EXTEND BEYOND THE SCOPE OF WORK AUTHORIZED BY THIS PERMIT ARE FOR REFERENCE ONLY AND SHALL NOT BE RELIED UPON FOR FUTURE COMPLIANCE OF SECTION 403.913, F.S. NOR ANY OTHER PROVISION OF LAW OR RULE.

30. PRIOR TO INITIATING ANY CONSTRUCTION, THE PERMITTEE MUST RECORD A CONSERVATION EASEMENT ON THE REAL PROPERTY PURSUANT TO SECTION 704.06, F.S., PROHIBITING ALL CONSTRUCTION INCLUDING GRADING, DREDGING OR FILLING, EXCEPT THAT WHICH IS SPECIFICALLY AUTHORIZED BY THIS PERMIT OR WHICH MAY BE AUTHORIZED BY FUTURE DISTRICT PERMIT, WATERWARD OF THE WETLAND LIMITS LINES AS DELINEATED ON PLANS DATED AS RECEIVED ON APRIL 29, 1997. SAID EASEMENT MUST CONTAIN PROVISIONS AS SET FORTH IN SUBSECTION 1 (A) - (1) OF SECTION 704.06, F.S., AS WELL AS PROVISIONS INDICATING THAT THEY MAY BE ENFORCED BY THE DISTRICT AND MAY NOT BE AMENDED WITHOUT DISTRICT APPROVAL. WITHIN 30 DAYS OF THE DATE OF ISSUANCE OF THIS PERMIT AND PRIOR TO RECORDING, 2 COPIES OF SAID EASEMENT WITH SURVEY MUST BE SUBMITTED TO THE DISTRICT'S ORLANDO OFFICE FOR REVIEW AND APPROVAL. THE SURVEY MUST BE PERFORMED BY A REGISTERED PROFESSIONAL LAND SURVEYOR.

WITHIN 30 DAYS OF RECEIPT OF DISTRICT APPROVAL THE PERMITTEE MUST PROVIDE THE DISTRICT'S ORLANDO OFFICE 2 CERTIFIED COPIES OF THE RECORDED EASEMENT SHOWING THE DATE IT WAS RECORDED AND THE OFFICIAL RECORDS PLAT BOOK AND PAGE NUMBER.

31. THE WETLAND CREATION AREAS MUST BE PLANTED PRIOR TO ANY OF THE FOLLOWING EVENTS (WHICHEVER OCCURS FIRST): ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; USE OF THE INFRASTRUCTURE FOR ITS INTENDED USE; OR TRANSFER OF RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

32. WITHIN 30 DAYS OF COMPLETION OF INITIAL PLANTING, THE PERMITTEE MUST SUBMIT TO THE DISTRICT'S ORLANDO FIELD OFFICE, TWO (2) COPIES OF A PLAN DETAILING THE SITE-SPECIFIC METHODS TO BE USED FOR MONITORING THE WETLAND CREATION AREAS SO THAT ACHIEVEMENT OF SUCCESS CRITERIA CAN BE QUANTITATIVELY DEMONSTRATED. THE PLAN MUST INCLUDE SUCH INFORMATION AS THE SIZE, LOCATION AND NUMBER OF MONITORING QUADRANTS, THE LOCATION AND NUMBER OF PHOTOGRAPHIC STATIONS, THE LOCATION OF THE REFERENCE WETLAND(IF APPLICABLE), THE LOCATION OF STAFF GAUGE(S) AND PIEZOMETER(S) AND OTHER PERTINENT FACTORS TO DEMONSTRATE ACHIEVEMENT OF SUCCESS CRITERIA.

33. WITHIN THE WETLAND CREATION AREAS, NON-NATIVE VEGETATION, CATTAILS (ITPHA SPP.), AND PRIMROSE WILLOW (LUDWIGIA PERUVIANA), MUST BE HAND CONTROLLED BY HAND CLEARING OR OTHER MEANS RECEIVING WRITTEN APPROVAL BY THE DISTRICT SO THAT THEY CONSTITUTE NO MORE THAN 10% OF THE AREAL COVER IN EACH STRATUM AT ANY TIME.

34. THE PERMITTEE MUST FURNISH THE DISTRICT WITH TWO (2) MONITORING REPORTS FOR THE WETLAND CREATION AREA(S) DESCRIBING:

A. PERCENT SURVIVAL AND RECORDED GROWTH VIA ESTABLISHED PARAMETERS FOR PLANTED TREES AND SHRUBS;

B. PERCENT COVER FOR ALL SPECIES WITHIN EACH STRATUM;

C. TOTAL PERCENT COVER OF HERBACEOUS SPECIES;

D. GROUND AND SURFACE WATER MONITORING DATA INCLUDING:

1) SURFACE WATER ELEVATION REFERENCED TO M.G.V.D., OR IF SURFACE WATER IS NOT PRESENT, GROUND WATER REFERENCED TO M.G.V.D.; AND,

2) LOCATION OF STAFF GAUGE(S) OR PIEZOMETER (S), AND

3) DATE AND TIME OF MEASUREMENTS;

- C. OBSERVATIONS OF WILDLIFE UTILIZATION;
- F. PANORAMIC PHOTOGRAPHS OF THE MITIGATION SITE TAKEN FROM APPROVED PERMANENT STATIONS.
- G. A DESCRIPTION OF ANY PROBLEMS ENCOUNTERED, INCLUDING REMOVAL OF ANY NON-TARGETED SPECIES, REPLACEMENT AND MAINTENANCE DATES, AND SOLUTIONS; AND,
- H. ANY ANTICIPATED WORK FOR THE SUCCESSIVE SIX MONTH PERIOD FOLLOWING EACH ASSESSMENT.

THE DATA MUST BE COLLECTED AND SUBMITTED SEMI-ANNUALLY, ONCE DURING THE WET SEASON (AUGUST-SEPTEMBER) AND ONCE DURING THE DRY SEASON (MARCH-APRIL) UNTIL THE CREATED AREAS ACHIEVE THE SUCCESS CRITERIA.

- 33. SUCCESSFUL ESTABLISHMENT OF THE WETLAND CREATION AREA(S) WILL HAVE OCCURRED WHEN:

- A. AT LEAST 80 PERCENT OF THE PLANTED INDIVIDUALS IN EACH STRATUM HAVE SURVIVED AND ARE SHOWING SIGNS OF NORMAL ANNUAL GROWTH, BASED UPON STANDARD GROWTH PARAMETERS SUCH AS HEIGHT AND BASE DIAMETER, OR CANOPY CIRCUMFERENCE;
- B. AT LEAST 50 PERCENT COVER BY APPROPRIATE WETLAND HERBACEOUS SPECIES HAS BEEN OBTAINED; AND,
- C. THE ABOVE CRITERIA HAS BEEN ACHIEVED BY THE END OF A FIVE (5) YEAR PERIOD FOLLOWING INITIAL PLANTING.

IF SUCCESSFUL ESTABLISHMENT HAS NOT OCCURRED AS STATED ABOVE, OR IS UNLIKELY BASED UPON THE MONITORING REPORTS OR TRENDS, THE PERMITTEE MUST WITHIN 30 DAYS, PROVIDE THE DISTRICT WITH A NARRATIVE DESCRIBING THE TYPE AND CAUSES OF FAILURE AND CONTAIN A COMPLETE SET OF PLANS FOR THE REDESIGN AND/OR REPLACEMENT PLANTING OF THE WETLAND CREATION SO THAT SUCCESS CRITERIA WILL BE ACHIEVED. WITHIN 30 DAYS OF DISTRICT APPROVAL AND ISSUANCE OF THE PERMIT MODIFICATION, THE PERMITTEE MUST IMPLEMENT THE REDESIGN AND/OR REPLACEMENT PLANTING. FOLLOWING COMPLETION OF SUCH WORK, SUCCESS CRITERIA AS STATED ABOVE OR MODIFIED BY SUBSEQUENT PERMIT MUST BE ACHIEVED. IN ADDITION, THE MONITORING REQUIRED BY THESE CONDITIONS MUST BE CONDUCTED.

- 34. WITHIN 30 DAYS OF ANY MONITORING EVENT THAT INDICATES 50% OR GREATER MORTALITY OF PLANTED WETLAND SPECIES IN ANY STRATUM WITHIN THE MITIGATION AREA, THE APPLICANT MUST SUBMIT A REMEDIATION PROGRAM (TWO COPIES) FOR DISTRICT STAFF REVIEW AND APPROVAL.
- 35. THE PERMITTEE MUST SUBMIT TWO COPIES OF AN AS-BUILT SURVEY OF THE WETLAND CREATION AREA CERTIFIED BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER SHOWING DIMENSIONS, GRADE, GROUND ELEVATIONS, AND WATER SURFACE ELEVATIONS AND AN INVENTORY OF THE PLANTED SPECIES IN THE WETLAND CREATION AREA(S). THE INVENTORY MUST INCLUDE THE TYPE, NUMBER, DISTRIBUTION, AND SIZE (IF APPLICABLE) OF THE PLANTED VEGETATION, AND MUST BE REFERENCED TO THE AS-BUILT SURVEY. THE AS-BUILT SURVEY AND THE INVENTORY MUST BE SUBMITTED WITHIN THIRTY (30) DAYS OF COMPLETION OF INITIAL PLANTING.
- 36. THE PERMITTEE MUST PLANT HERBACEOUS WETLAND SPECIES, APPROVED BY DISTRICT STAFF, TO SUPPLEMENT GROUND COVER, IF NATURAL RECRUITMENT OF DESIRABLE SPECIES DOES NOT OCCUR IN THE COVER STRATUM. IF PLANTED, SUCH SPECIES MUST ACHIEVE 80% COVER AFTER A THREE YEAR PERIOD.

37. IRRIGATION AND FERTILIZATION OF THE WETLAND CREATION AREA MAY OCCUR IN THE FIRST YEAR AFTER INITIAL PLANTING IN ACCORDANCE WITH RULE 40C-27, F.A.C.
40. THE USE OF NON-NATIVE GRASSES, OR THE PLACEMENT OF SOD, IN THE WETLAND CREATION AREAS IS SPECIFICALLY PROHIBITED.
41. WITHIN SIX (6) MONTHS FROM THE DATE OF ISSUANCE OF THIS PERMIT AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE PERMITTEE SHALL FURNISH TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT A FINANCIAL STATEMENT IN ACCORDANCE WITH F.A.C. RULE 17-312.390 AS IT PRESENTLY EXISTS.
42. WITHIN SIX (6) MONTHS FROM THE DATE OF ISSUANCE OF THIS PERMIT AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE PERMITTEE SHALL FURNISH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT WITH A FULLY EXECUTED AGREEMENT (REASONABLY SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT) BETWEEN THE PERMITTEE, ORANGE COUNTY AND/OR OTHER WHICH AGREEMENT SHALL:
(1) ALLOCATE ACCEPTANCE OF AND RESPONSIBILITY FOR THE OPERATION, MAINTENANCE AND MONITORING OF THE SURFACE WATER MANAGEMENT SYSTEM AND THE WETLAND CREATION AREAS; (2) SHALL SPECIFY THE TIME FRAMES IN WHICH THE PERMITTEE OR ORANGE COUNTY OR OTHER RESPONSIBLE PARTIES WILL PERFORM THE OPERATION, MAINTENANCE AND MONITORING OF THE SURFACE WATER MANAGEMENT SYSTEM AND THE WETLAND CREATION AREAS; (3) SHALL SPECIFY WHEN TRANSFER OF THIS PERMIT AND THE PERMIT CONDITIONS. OTHERWISE, THE PERMITTEE SHALL REMAIN FULLY RESPONSIBLE FOR THE OPERATION, MAINTENANCE AND MONITORING OF THE SURFACE WATER MANAGEMENT SYSTEM AND THE WETLAND CREATION AREAS.
43. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE PERMITTEE SHALL ALSO FURNISH TO THE ST. JOHNS RIVER MANAGEMENT DISTRICT AN EXECUTED COPY OF THE CONSTRUCTION CONTRACT BETWEEN PERMITTEE AND ITS CONSTRUCTION CONTRACTOR (TO BE CHOSEN SOLELY BY PERMITTEE AT PERMITTEE'S SOLE DISCRETION) AND A COPY OF THE PAYMENT AND PERFORMANCE BOND REQUIRED TO BE PROVIDED BY THE CONTRACTOR TO THE PERMITTEE UNDER THE CONSTRUCTION CONTRACT. THE PAYMENT AND PERFORMANCE BOND SHALL BE IN THE COST OF THE ALAFAYA TRAIL EXTENSION IMPROVEMENTS INCLUDING THE CONSTRUCTION THE CONTRACTION OF THE WETLAND CREATION (MITIGATION) AREAS. THE PERMITTEE'S CONTRACT WITH ITS CONSTRUCTION CONTRACTOR IS NOT SUBJECT TO REVIEW BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
44. THE MITIGATION PLAN APPROVED BY THIS PERMIT IS TO COMPENSATE FOR WATERS OF THE STATE ENCKOACHMENTS FOR THE 1.7 MILE SEGMENT OF THE ALAFAYA TRAIL EXTENSION SOUTH TO THE ORLANDO UTILITIES COMMISSION (OUC) PROPERTY. IN ADDITION, THE MITIGATION PLAN PROVIDES COMPENSATION FOR ALL, OR PART, OF WATERS OF THE STATE ENCKOACHMENTS FOR THE REMAINING 2.3 MILES OF ALAFAYA TRAIL EXTENSION. THIS OFF-SITE COMPENSATION MAY BE USED BY THE APPLICANT TO MITIGATE FOR ALL, OR PART, OF FUTURE IMPACTS THAT MAY OCCUR AS A RESULT OF FUTURE IMPACTS THAT MAY OCCUR AS A RESULT OF FUTURE CONSTRUCTION WITHIN THE ALAFAYA TRAIL EXTENSION CORRIDOR. PROPOSED IMPACTS TO WATERS OF THE STATE, FOR THAT PORTION OF THE ALAFAYA TRAIL EXTENSION ON THE OUC PROPERTY, MUST BE EVALUATED AND APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION IN ACCORDANCE WITH THE POWER PLANT SITING ACT CERTIFICATION (PA-87-14).

45. SINCE POTENTIALLY SIGNIFICANT ARCHAEOLOGICAL AND HISTORICAL SITES MAY BE PRESENT, PRIOR TO INITIATING ANY PROJECT RELATED LAND CLEARING OR GROUND DISTURBING ACTIVITIES WITHIN THE PROJECT AREA, THE SITE MUST BE SUBJECTED TO A SYSTEMATIC, PROFESSIONAL ARCHAEOLOGICAL AND HISTORICAL SURVEY. THE PURPOSE OF THIS SURVEY WILL BE TO LOCATE AND ASSESS THE SIGNIFICANCE OF CULTURAL RESOURCES PRESENT. THE RESULTANT SURVEY REPORT MUST BE FORWARDED TO THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES (WITH 2 COPIES FORWARDED TO THE DISTRICT'S ORLANDO OFFICE) IN ORDER TO COMPLETE THE PROCESS OF REVIEWING THE IMPACTS OF THIS PROJECT ON ARCHAEOLOGICAL AND HISTORICAL RESOURCES.
46. DURING THE CONSTRUCTION OF THE 1.9 MILE PORTION OF THE TWO LANE EXTENSION OF ALAFAYA TRAIL AS PERMITTED HEREUNDER, THE PERMITTEE SHALL NOT UTILIZE HEAVY EARTH MOVING EQUIPMENT WITHIN 400 FEET OF ACTIVE RED CUCKADED WOODPECKER NEST TRENCH DURING THE BREEDING SEASON FROM APRIL 15 TO JULY 10.
47. PRIOR TO BEGINNING ANY CONSTRUCTION, THE NORTHERN PORTION OF THE ALAFAYA TRAIL EXPANSION PROPOSED TO CROSS THE ORLANDO UTILITY COMMISSION (OUC) STANTON POWER PLANT PROPERTY MUST BE APPROVED PURSUANT TO A MODIFICATION OF THE OUC'S CERTIFICATION UNDER THE FLORIDA ELECTRICAL POWER PLANT SITING ACT, CHAPTER 403 FLORIDA STATUTES.

LIMITS OF WETLAND
CREATION AREA
LOCATION OF TURBIDITY
BARRIERS

EXIST.
WETLANDS

- LIMITS OF WETLAND
CREATION AREA/
LOCATION OF TURBIDITY
BARRIERS

EXIST.
WETLANDS

PLANTING PLAN

**PROPOSED MITIGATION PLAN FOR
ALAFAYA TRAIL
EXTENSION ON PARCEL 9**

ZONES IN WETLAND CREATION AREAS

-  A - Wetland Shrub Marsh
 B - Freshwater Marsh/Wet Prairie
 C - Deep Water Aquatic
 D - Shallow Water Aquatic
 E - Cypress Dominated Wetland
 F - Mixed Hardwood Wetland

SURVIVAL

८३

TOTAL ACREAGE	87.81
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ACWEA 06

112

2.98

107^t

224

20.21

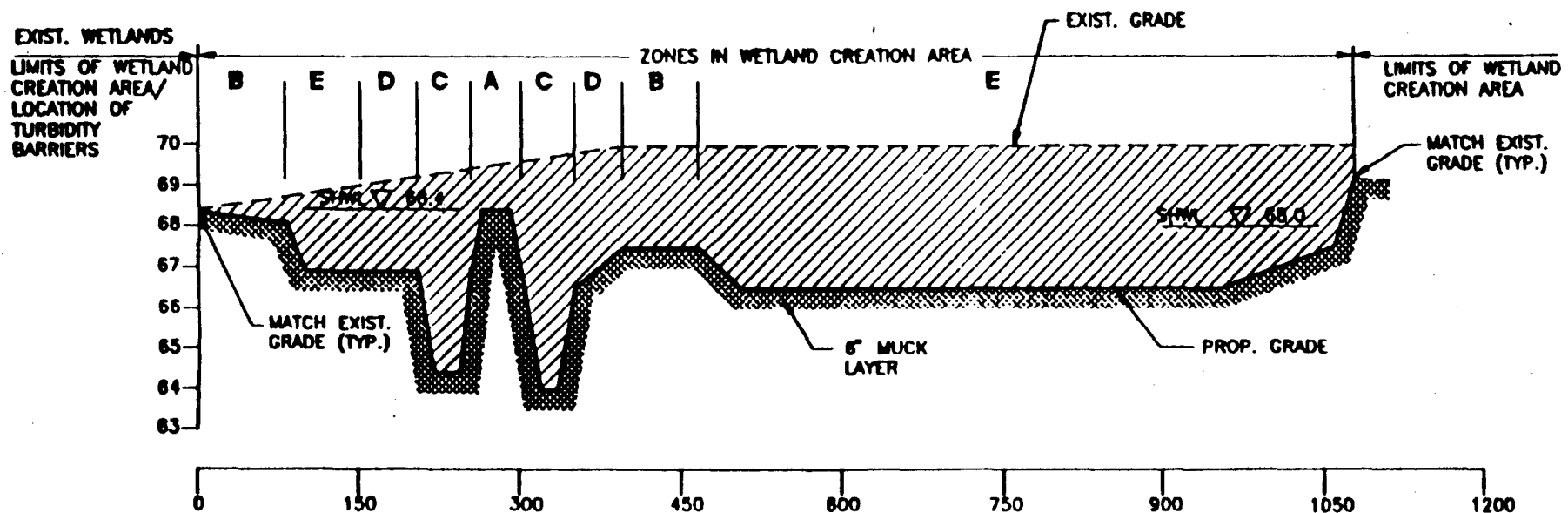
247

12-095-2040 AM2

PLANS

1205500409

FIGURE 2

**NOTE:**

EXISTING GROUND ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEY BY AERIAL CARTOGRAPHICS OF AMERICA, MAY 29, 1986. SEASONAL HIGH WATER ELEVATION IS BASED ON THE WETLANDS HYDROLOGICAL DATA FROM BREEDLOVE, DENNIS, AND ASSOCIATES, INC.

ZONES

- A WETLAND SHRUB ISLAND
- B FRESHWATER MARSH/WET PRAIRIE
- C DEEP WATER AQUATIC
- D SHALLOW WATER AQUATIC (LITTORAL ZONE)
- E CYPRESS DOMINATED WETLAND
- F MIXED HARDWOOD WETLAND

SHWL - SEASONAL HIGH WATER LEVEL



UPLAND EXCAVATION FOR WETLAND CREATION

SECTION 1-1
PROPOSED MITIGATION PLAN FOR
ALAFAYA TRAIL
EXTENSION ON PARCEL 9

DATE: APRIL 19, 1991

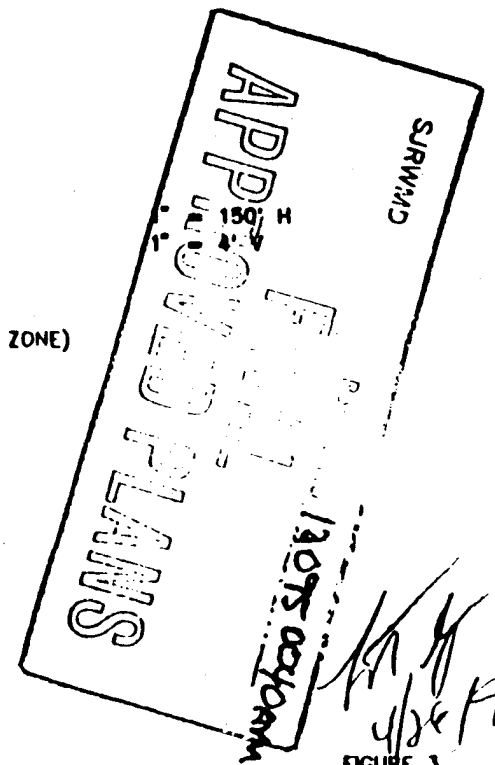
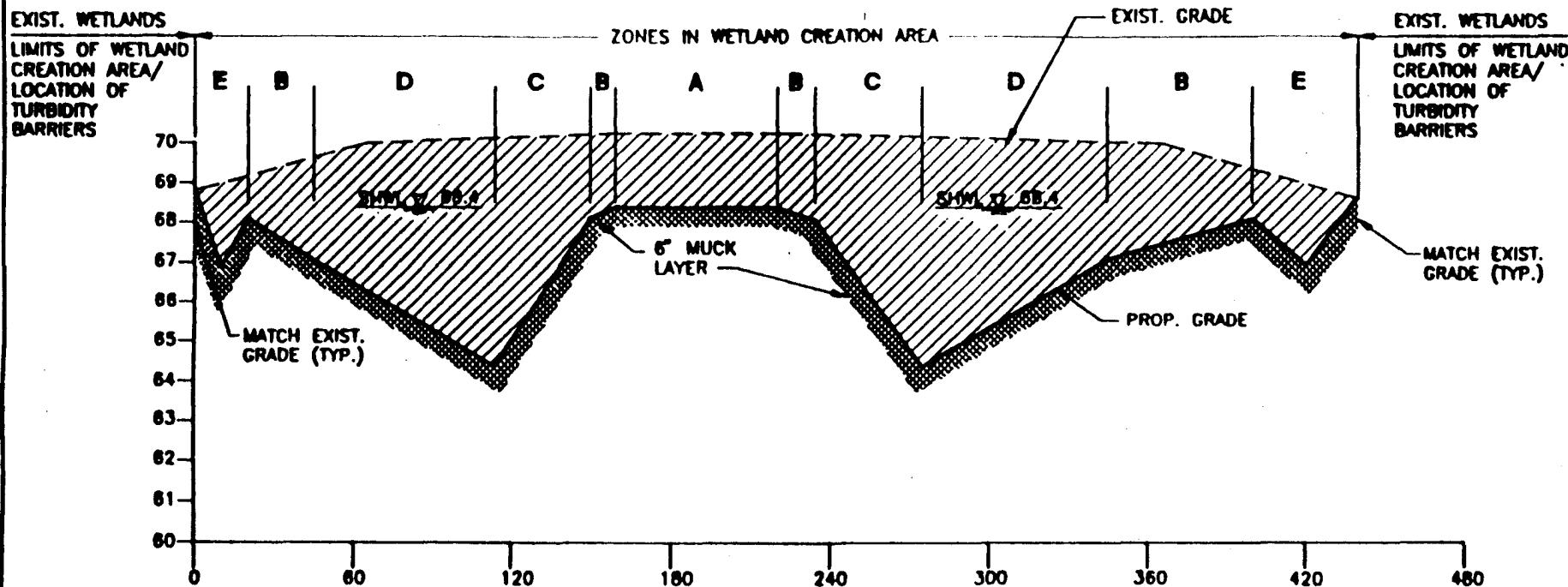


FIGURE 3



NOTE:
EXISTING GROUND ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEY BY AERIAL CARTOGRAPHICS OF AMERICA, MAY 29, 1986. SEASONAL HIGH WATER ELEVATION IS BASED ON THE WETLANDS HYDROLOGICAL DATA FROM BREEDLOVE, DENNIS, AND ASSOCIATES, INC.

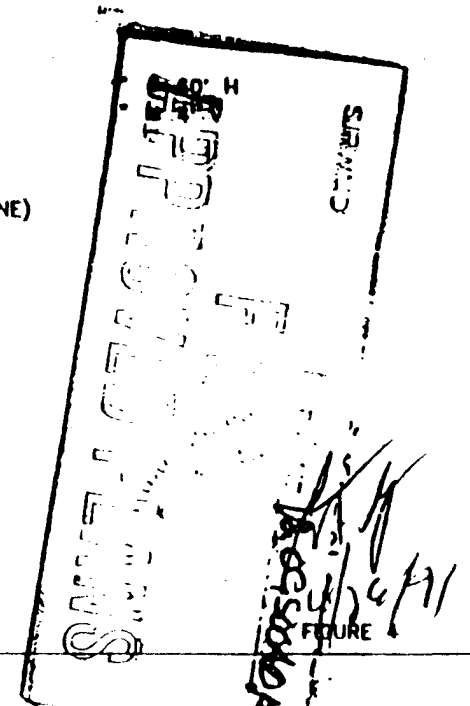
- ZONES**
- A WETLAND SHRUB ISLAND
 - B FRESHWATER MARSH/WET PRAIRIE
 - C DEEP WATER AQUATIC
 - D SHALLOW WATER AQUATIC (LITTORAL ZONE)
 - E CYPRESS DOMINATED WETLAND
 - F MIXED HARDWOOD WETLAND

SHWL - SEASONAL HIGH WATER LEVEL

 UPLAND EXCAVATION FOR WETLAND CREATION

SECTION 2 - 2
PROPOSED MITIGATION PLAN FOR
ALAFAYA TRAIL
EXTENSION ON PARCEL 9

DATE: APRIL 19, 1991



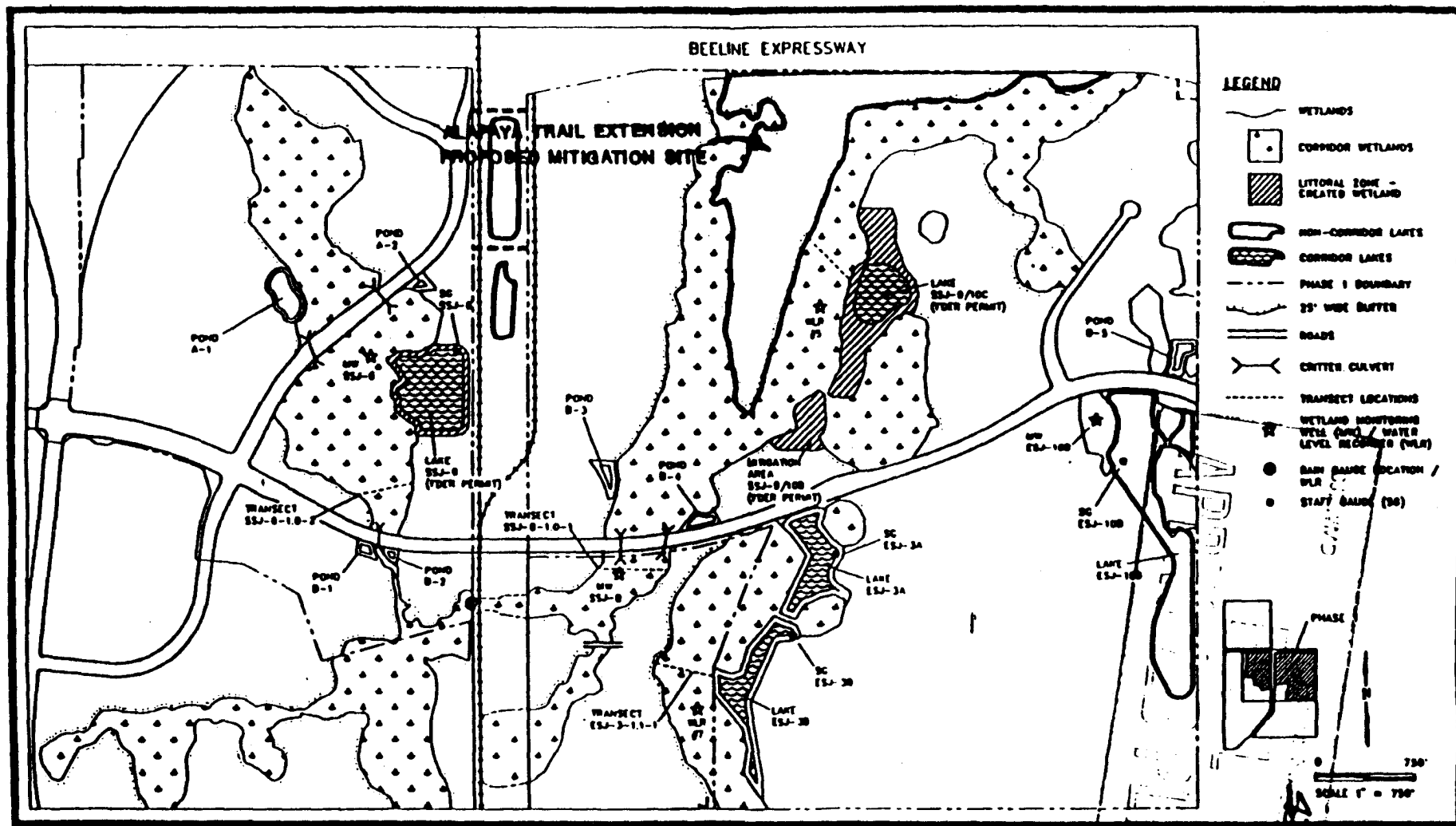


FIGURE 8 LOCATION OF THE WETLAND MONITORING TRANSECTS, WETLAND MONITORING WELLS, WATER LEVEL RECORDERS, RAIN GAUGE AND LAKE STAFF GAUGES IN PHASE I OF THE INTERNATIONAL CORPORATE PARK PROJECT SITE, ORANGE COUNTY, FLORIDA.

NOTE: ALL INFORMATION ON THIS FIGURE, EXCEPT THE ALAFAYA TRAIL EXTENSION PROPOSED MITIGATION SITE LOCATION, WAS DESIGNED AND PRODUCED BY BREEDLOVE, DENNIS AND ASSOCIATES, INC.

ATTACHMENT T

RELOCATION OF PARCEL 8 AND PARCEL 27

SURROUND

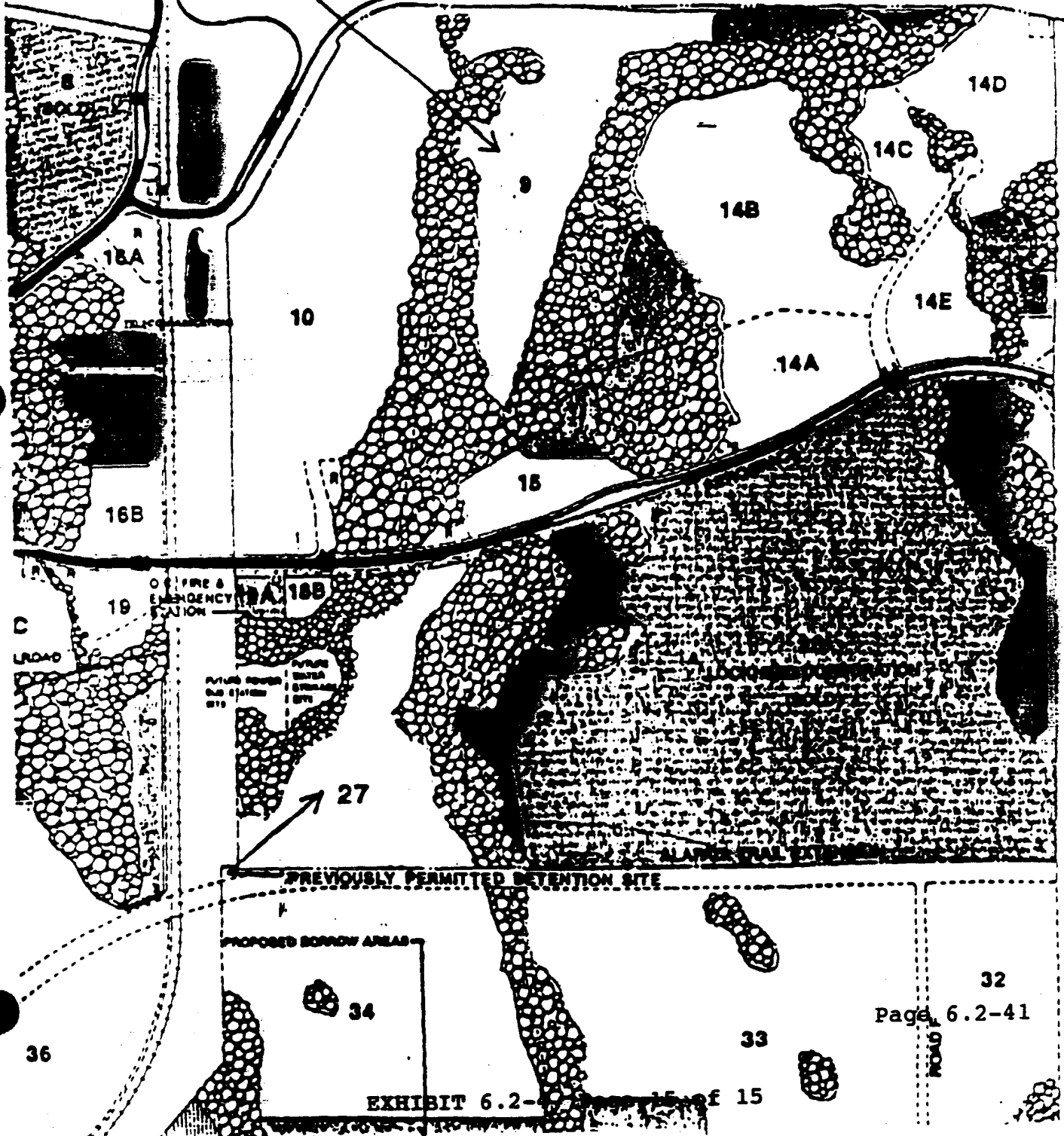
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12095000A

APPROVED
PROPOSED
ROAD T

BEELINE EXPRESSWAY

PROPOSED DETENTION AND MITIGATION SITE





**WATER
MANAGEMENT
DISTRICT**

John R. Wehle, Assistant Executive Director

POST OFFICE BOX 1429 PALATKA, FLORIDA 32178-1429
TELEPHONE 904/329-4500 SUNCOM 904/860-4500
 FAX (EXECUTIVE/LEGAL) 329-4125 (PERMITTING) 329-4315 (ADMINISTRATION/FINANCE) 329-4604

FIELD STATIONS

618 E. South Street Orlando, Florida 32801 407/894-6423	7775 Baymeadows Way Suite 102 Jacksonville, Florida 32256 904/730-6270	PERMITTING: 306 East Drive Melbourne, Florida 32904 407/884-4940	OPERATIONS: 2133 N. Wetherham Road Melbourne, Florida 32935-8105 407/254-1782
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JULY 9, 1991

INTERNATIONAL CORPORATE PARK
 ATTN: JAMES CLARK
 8246 ICP BOULEVARD
 ORLANDO, FL 32832

RECEIVED

SEP 23 1991

EMD

**SUBJECT: MANAGEMENT AND STORAGE OF SURFACE WATERS
 INDIVIDUAL PERMIT NUMBER 4-095-003572**

DEAR SIR/MADAM:

ENCLOSED IS YOUR PERMIT AS AUTHORIZED BY THE GOVERNING BOARD OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ON JULY 9, 1991. THIS PERMIT WILL EXPIRE ON JULY 9, 1996.

THIS PERMIT IS A LEGAL DOCUMENT AND SHOULD BE KEPT WITH YOUR OTHER IMPORTANT DOCUMENTS. THE ATTACHED COMPLETION REPORT SHOULD BE FILLED IN AND RETURNED TO THE PALATKA OFFICE WITHIN THIRTY DAYS AFTER THE WORK IS COMPLETED. BY SO DOING, YOU WILL ENABLE US TO SCHEDULE A PROMPT INSPECTION OF THE PERMITTED ACTIVITY.

IN ADDITION TO THE COMPLETION REPORT, YOUR PERMIT ALSO CONTAINS CONDITIONS WHICH REQUIRE SUBMITTAL OF ADDITIONAL INFORMATION. ALL INFORMATION SUBMITTED AS COMPLIANCE TO PERMIT CONDITIONS MUST BE SUBMITTED TO THE PALATKA OFFICE ADDRESS.

PERMIT ISSUANCE DOES NOT RELIEVE YOU FROM THE RESPONSIBILITY OF OBTAINING PERMITS FROM ANY FEDERAL, STATE AND/OR LOCAL AGENCIES ASSERTING CONCURRENT JURISDICTION FOR THIS WORK.

IN THE EVENT YOU SELL YOUR PROPERTY, THE PERMIT WILL BE TRANSFERRED TO THE NEW OWNER, IF WE ARE NOTIFIED BY YOU WITHIN NINETY DAYS OF THE SALE. PLEASE ASSIST US IN THIS MATTER SO AS TO MAINTAIN A VALID PERMIT FOR THE NEW PROPERTY OWNER.

THANK YOU FOR YOUR COOPERATION AND IF THIS OFFICE CAN BE OF ANY FURTHER ASSISTANCE TO YOU, PLEASE DO NOT HESITATE TO CONTACT US.

SINCERELY,

Lacy Livingston

LACY LIVINGSTON, DATA CONTROL TECHNICIAN
 DIVISION OF RECORDS

ENCLOSURES: PERMIT WITH COMPLETION REPORT

CC: DISTRICT PERMIT FILE

Joe E. Hill, VICE CHAIRMAN	Joseph D. Collins, TREASURER	Merrill C. Fore, SECRETARY
EXHIBIT 642-5	JACSONVILLE	OCALA
Ralph E. Simmons	Patricia T. Harden	James H. Williams
FERNANDINA BEACH	SANFORD	OCALA
Jesse J. Patton, III	Lenore N. McCullagh	
TITUSVILLE	ORANGE PARK	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
POST OFFICE BOX 1429
PALATKA, FLORIDA 32178-1429

PERMIT NO. ~~5-UY2-001182~~

DATE ISSUED JULY 9, 1991

A PERMIT AUTHORIZING:

THE MODIFICATION OF PERMIT #4-UY5-0033H, ISSUED OCTOBER 9, 1990. THE MODIFICATION CONSISTS OF THE RELOCATION OF THE ALAPATA TRAIL AND AEROSPACE PARKWAY EXTENSION MITIGATION AREA, TO BE WITHIN THE ICP DEVELOPMENT.

LOCATION:

SECTION 7, TOWNSHIP SOUTH, RANGE EAST
ORANGE COUNTY

ISSUED TO:
(OWNER)

INTERNATIONAL CORPORATE PARK
8248 ICP BOULEVARD
ORLANDO, FL 32832

PERMITTEE AGREES TO HOLD AND SAVE THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND ITS SUCCESSORS HARMLESS FROM ANY AND ALL DAMAGES, CLAIMS, OR LIABILITIES WHICH MAY ARISE FROM PERMIT ISSUANCE. SAID APPLICATION, INCLUDING ALL PLANS AND SPECIFICATIONS ATTACHED THERETO, IS BY REFERENCE MADE A PART HEREOF.

THIS PERMIT DOES NOT CONVEY TO PERMITTEE ANY PROPERTY RIGHTS NOR ANY RIGHTS OR PRIVILEGES OTHER THAN THOSE SPECIFIED HEREIN, NOR RELIEVE THE PERMITTEE FROM COMPLYING WITH ANY LAW, REGULATION OR REQUIREMENT AFFECTING THE RIGHTS OF OTHER BODIES OR AGENCIES. ALL STRUCTURES AND WORKS INSTALLED BY PERMITTEE HEREUNDER SHALL REMAIN THE PROPERTY OF THE PERMITTEE.

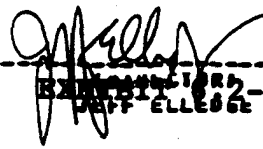
THIS PERMIT MAY BE REVOKED, MODIFIED OR TRANSFERRED AT ANY TIME PURSUANT TO THE APPROPRIATE PROVISIONS OF CHAPTER 373, FLORIDA STATUTES:

PERMIT IS CONDITIONED UPON:

SEE CONDITIONS ON ATTACHED "EXHIBIT A", DATED JULY 9, 1991

AUTHORIZED BY: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
DEPARTMENT OF RESOURCE MANAGEMENT

GOVERNING BOARD

BY: 

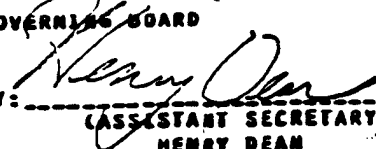
BY: 

EXHIBIT A-5
JEFF ELLEDGE

Page 2 of 6

(ASSISTANT SECRETARY)
HENRY DEAN

"EXHIBIT A"

CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 4-U93-U033M2

INTERNATIONAL CORPORATE PARK

DATED JULY 9, 1991

1. PRIOR TO LOT OR UNIT SALES, OR UPON COMPLETION OF CONSTRUCTION OF THE SYSTEM, WHICHEVER OCCURS FIRST, THE DISTRICT MUST RECEIVE THE FINAL OPERATION AND MAINTENANCE DOCUMENT(S) APPROVED BY THE DISTRICT AND RECORDED, IF THE LATTER IS APPROPRIATE. FOR THOSE SYSTEMS WHICH ARE PROPOSED TO BE MAINTAINED BY COUNTY OR MUNICIPAL ENTITIES, FINAL OPERATION AND MAINTENANCE DOCUMENTS MUST BE RECEIVED BY THE DISTRICT WHEN MAINTENANCE AND OPERATION OF THE SYSTEM IS ACCEPTED BY THE LOCAL GOVERNMENT ENTITY. FAILURE TO SUBMIT THE APPROPRIATE FINAL DOCUMENT WILL RESULT IN THE PERMITTEE REMAINING PERSONALLY LIABLE FOR CARRYING OUT MAINTENANCE AND OPERATION OF THE PERMITTED SYSTEM.
2. ALL CONSTRUCTION, OPERATION AND MAINTENANCE SHALL BE AS SET FORTH IN THE PLANS, SPECIFICATIONS AND PERFORMANCE CRITERIA AS APPROVED BY THIS PERMIT.
3. DISTRICT AUTHORIZED STAFF, UPON PROPER IDENTIFICATION, WILL HAVE PERMISSION TO ENTER, INSPECT AND OBSERVE THE SYSTEM TO INSURE CONFORMITY WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE PERMIT.
4. TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATERBODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE PERMITTEE WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS.
5. THE OPERATION PHASE OF THE PERMIT SHALL NOT BECOME EFFECTIVE UNTIL A FLORIDA REGISTERED PROFESSIONAL ENGINEER CERTIFIES THAT ALL FACILITIES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE DESIGN APPROVED BY THE DISTRICT. WITHIN 30 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE PERMITTEE SHALL SUBMIT THE FOLLOWING: COMPLETION CERTIFICATION REPORT SIGNED AND SEALED BY THE P.E.; AND WHEN THE COMPLETED SYSTEM SUBSTANTIALLY DIFFERS FROM PERMITTED PLANS, TWO SETS OF RECORD (AS BUILT) PLANS WHICH REFLECT THE SURFACE WATER MANAGEMENT SYSTEM AS ACTUALLY CONSTRUCTED. THIS SUBMITTAL WILL SERVE TO NOTIFY THE DISTRICT STAFF THAT THE FACILITIES ARE READY FOR INSPECTION AND APPROVAL. THE PERMIT CANNOT BE TRANSFERRED TO THE RESPONSIBLE OPERATION AND MAINTENANCE ENTITY APPROVED BY THE DISTRICT UNTIL CONSTRUCTION OF THE COMPLETED SURFACE WATER MANAGEMENT SYSTEM IS APPROVED BY THE DISTRICT.
6. IF ANY OTHER REGULATORY AGENCY SHOULD REQUIRE REVISIONS OR MODIFICATION TO THE PERMITTED PROJECT, THE DISTRICT IS TO BE NOTIFIED OF THE REVISIONS SO THAT A DETERMINATION CAN BE MADE WHETHER A PERMIT MODIFICATION IS REQUIRED.
7. THE DISTRICT MUST BE NOTIFIED, IN WRITING, WITHIN 30 DAYS OF ANY SALE, CONVEYANCE, OR OTHER TRANSFER OF A PERMITTED SYSTEM OR FACILITY OR WITHIN 30 DAYS OF ANY TRANSFER OF OWNERSHIP OR CONTROL OF THE REAL PROPERTY AT WHICH THE PERMITTED SYSTEM OR FACILITY IS LOCATED. ALL TRANSFERS OF OWNERSHIP OR TRANSFERS OF A PERMIT ARE SUBJECT TO THE REQUIREMENTS OF CHAPTER 40C-1.
8. THE PERMITTEE MUST REQUIRE THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THIS PERMIT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AND POSTED AT THE SAME LOCATION AS OTHER AGENCY PERMITS ON THE CONSTRUCTION SITE. **EXHIBIT 6.2-5** **Page 3 of 6** BE AVAILABLE FOR REVIEW UPON REQUEST BY DISTRICT REPRESENTATIVES.

9. THIS PERMIT FOR CONSTRUCTION WILL EXPIRE FIVE YEARS FROM THE DATE OF ISSUANCE.
10. CONSTRUCTION OR ALTERATION OF THE SURFACE WATER MANAGEMENT SYSTEM MUST BE COMPLETED AND ALL DISTURBED AREAS MUST BE STABILIZED IN ACCORDANCE WITH PERMITTED PLANS AND PERMIT CONDITIONS PRIOR TO ANY OF THE FOLLOWING EVENTS (WHICHEVER OCCURS FIRST): ISSUANCE OF A CERTIFICATE OF OCCUPANCY; USE OF THE INFRASTRUCTURE FOR ITS INTENDED USE; OR TRANSFER OF RESPONSIBILITY FOR OPERATION AND MAINTENANCE TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.
11. PERMITTEE MUST OBTAIN A GENERAL OR INDIVIDUAL PERMIT FROM THE DISTRICT PRIOR TO BEGINNING CONSTRUCTION OF SUBSEQUENT PHASES OR ANY OTHER WORK NOT SPECIFICALLY AUTHORIZED BY THIS PERMIT.
12. ALL WETLAND AREAS OR WATER BODIES THAT ARE OUTSIDE OF THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT MUST BE PROTECTED FROM EROSION, SILTATION, SCOURING OR EXCESS TURBIDITY, AND Dewatering.
13. WITHIN THE WETLAND CREATION AREAS, NON-NATIVE VEGETATION, CATTAILS (ITPMA SPP.) AND PRIMROSE WILLOW (LUDWIGA PERUVIANNA), MUST BE CONTROLLED BY HAND CLEARING OR OTHER METHODS APPROVED BY THE DISTRICT SO THAT THEY CONSTITUTE NO MORE THAN 10% OF THE AREAL COVER IN EACH STRATUM.
14. ALL CORRESPONDENCE, SUBMITTALS, AND NOTIFICATIONS REQUIRED BY THE FOLLOWING PERMIT CONDITIONS MUST BE SUBMITTED TO THE ORLANDO FIELD DISTRICT OFFICE AT 618 EAST SOUTH STREET, ORLANDO FLORIDA 32807.
15. THE MITIGATION AREA MUST BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS RECEIVED ON APRIL 26, 1991.
16. THE PERMITTEE SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSPORTING SUSPENDED SOLIDS INTO THE RECEIVING WATERBODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED, AND DISTURBED SOILS ARE STABILIZED. THEREAFTER, THE PERMITTEE MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-322, FLORIDA ADMINISTRATIVE CODE.
17. GRASS AND MULCH OR SOG MUST BE INSTALLED AND MAINTAINED AND EXPOSED SLOPES MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF COMPLETING FINAL GRADE, AND AT ANY OTHER TIME TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES INTO WATERS OF THE STATE.
18. AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK AUTHORIZED BY THIS PERMIT, THE PERMITTEE MUST PROVIDE TWO WRITTEN COPIES OF WRITTEN NOTIFICATION OF THE SCHEDULED DATE OF COMMENCEMENT TO THE DISTRICT'S ORLANDO FIELD OFFICE.
19. ALL CONTRACTORS MUST BE PROVIDED A COPY OF THE PERMIT CONDITIONS BEFORE BEGINNING CONSTRUCTION.
20. PRIOR TO CONSTRUCTION, THE PERMITTEE MUST CLEARLY DELINEATE THE LIMITS OF CONSTRUCTION IN WATERS OF THE STATE. THE PERMITTEE MUST ADVISE THE CONTRACTOR THAT ANY WORK WITHIN WATERS OF THE STATE, OUTSIDE THE LIMITS OF CONSTRUCTION, INCLUDING CLEANING, IS A VIOLATION OF THIS PERMIT.

21. PRIOR TO INITIATING ANY CONSTRUCTION, THE PERMITTEE MUST RECORD A CONSERVATION EASEMENT ON THE REAL PROPERTY PURSUANT TO SECTION 704.06, F.S., PROHIBITING ALL CONSTRUCTION INCLUDING GRADING, DREDGING OR FILLING, EXCEPT THAT WHICH IS SPECIFICALLY AUTHORIZED BY THIS PERMIT OR WHICH MAY BE AUTHORIZED BY FUTURE DISTRICT PERMIT, WATERWARD OF THE WETLAND LIMITS LINES AS DELINEATED ON PLANS DATED AS RECEIVED ON APRIL 26, 1991. SAID EASEMENT MUST CONTAIN PROVISIONS AS SET FORTH IN SUBSECTION 7 (A) - (1) OF SECTION 704.06, F.S., AS WELL AS PROVISIONS INDICATING THAT THEY MAY BE ENFORCED BY THE DISTRICT AND MAY NOT BE AMENDED WITHOUT DISTRICT APPROVAL. WITHIN 30 DAYS OF THE DATE OF ISSUANCE OF THIS PERMIT AND PRIOR TO RECORDING, EASEMENT WITH SURVEY MUST BE SUBMITTED TO THE DISTRICT'S ORLANDO OFFICE FOR REVIEW AND APPROVAL. THE SURVEY MUST BE PERFORMED BY A REGISTERED PROFESSIONAL LAND SURVEYOR.

WITHIN 30 DAYS OF RECEIPT OF DISTRICT APPROVAL, THE PERMITTEE MUST PROVIDE THE DISTRICT'S ORLANDO OFFICE 2 CERTIFIED COPIES OF THE RECORDED EASEMENT SHOWING THE DATE IT WAS RECORDED AND THE OFFICIAL RECORDS PLAT BOOK AND PAGE NUMBER.

22. WITHIN 30 DAYS OF COMPLETION OF INITIAL PLANTING, THE PERMITTEE MUST SUBMIT TO THE DISTRICT'S ORLANDO FIELD OFFICE, TWO (2) COPIES OF A PLAN DETAILING THE SITE-SPECIFIC METHODS TO BE USED FOR MONITORING THE WETLAND CREATION AREAS SO THAT ACHIEVEMENT OF SUCCESS CRITERIA CAN BE QUANTITATIVELY DEMONSTRATED. THE PLAN MUST INCLUDE SUCH INFORMATION AS THE SIZE, LOCATION AND NUMBER OF MONITORING QUADRANTS, THE LOCATION AND NUMBER OF PHOTOGRAPHIC STATIONS, THE LOCATION OF THE REFERENCE WETLAND(IF APPLICABLE), THE LOCATION OF STAFF GAUGE(S) AND PIEZOMETER(S) AND OTHER PERTINENT FACTORS TO DEMONSTRATE ACHIEVEMENT OF SUCCESS CRITERIA.

23. THE PERMITTEE MUST FURNISH THE DISTRICT WITH TWO (2) MONITORING REPORTS FOR THE WETLAND CREATION AREA(S) DESCRIBING:

A. PERCENT SURVIVAL AND RECORDED GROWTH VIA ESTABLISHED PARAMETERS FOR PLANTED TREES AND SHRUBS;

B. PERCENT COVER FOR ALL SPECIES WITHIN EACH STRATUM;

C. TOTAL PERCENT COVER OF HERBACEOUS SPECIES;

D. GROUND AND SURFACE WATER MONITORING DATA INCLUDING:

1) SURFACE WATER ELEVATION REFERENCED TO N.G.V.D., OR IF SURFACE WATER IS NOT PRESENT, GROUND WATER REFERENCED TO N.G.V.D.;

2) LOCATION OF STAFF GAUGE(S) OR PIEZOMETER(S); AND,

3) DATE AND TIME OF MEASUREMENTS.

E. OBSERVATIONS OF WILDLIFE UTILIZATION;

F. PANORAMIC PHOTOGRAPHS OF THE MITIGATION SITE TAKEN FROM APPROVED PERMANENT STATIONS;

G. A DESCRIPTION OF ANY PROBLEMS ENCOUNTERED, INCLUDING REMOVAL OF ANY NON-TARGETED SPECIES, REPLACEMENT AND MAINTENANCE DATES, AND SOLUTIONS; AND,

H. AN ANTICIPATED WORK FOR THE SUCCESSIVE SIX MONTH PERIOD FOLLOWING EACH ASSESSMENT.

Exhibit 6.2-5 Page 5 of 6

THE DATA MUST BE COLLECTED AND SUBMITTED SEMI-ANNUALLY, ONCE DURING THE WET SEASON (AUGUST-SEPTEMBER) AND ONCE DURING THE DRY SEASON (MARCH-APRIL) UNTIL THE CREATED AREAS ACHIEVE THE SUCCESS CRITERIA.

24. SUCCESSFUL ESTABLISHMENT OF THE WETLAND CREATION AREA(S) WILL HAVE OCCURRED WHEN:

A. AT LEAST 80 PERCENT OF THE PLANTED INDIVIDUALS IN EACH SITUATION HAVE SURVIVED AND ARE SHOWING SIGNS OF NORMAL ANNUAL GROWTH FOR THREE CONSECUTIVE YEARS, BASED UPON STANDARD GROWTH PARAMETERS SUCH AS HEIGHT AND BASE DIAMETER, OR CANOPY CIRCUMFERENCE;

B. AT LEAST 80 PERCENT COVER BY APPROPRIATE WETLAND HERBACEOUS SPECIES HAS BEEN OBTAINED; AND,

C. THE ABOVE CRITERIA HAS BEEN ACHIEVED BY THE END OF A FIVE (5) YEAR PERIOD FOLLOWING INITIAL PLANTING.

IF SUCCESSFUL ESTABLISHMENT HAS NOT OCCURRED AS STATED ABOVE, OR IS UNLIKELY BASED UPON THE MONITORING REPORTS OR TRENDS, THE PERMITTEE MUST WITHIN 30 DAYS, PROVIDE THE DISTRICT WITH A NARRATIVE DESCRIBING THE TYPE AND CAUSES OF FAILURE AND CONTAIN A COMPLETE SET OF PLANS FOR THE REDESIGN AND/OR REPLACEMENT PLANTING OF THE WETLAND CREATION SO THAT SUCCESS CRITERIA WILL BE ACHIEVED. WITHIN 30 DAYS OF DISTRICT APPROVAL AND ISSUANCE OF THE PERMIT MODIFICATION, THE PERMITTEE MUST IMPLEMENT THE REDESIGN AND/OR REPLACEMENT PLANTING. FOLLOWING COMPLETION OF SUCH WORK, SUCCESS CRITERIA AS STATED ABOVE OR MODIFIED BY SUBSEQUENT PERMIT MUST BE ACHIEVED. IN ADDITION, THE MONITORING REQUIRED BY THESE CONDITIONS MUST BE CONDUCTED.

25. WITHIN 30 DAYS OF ANY MONITORING EVENT THAT INDICATES 50% OR GREATER MORTALITY OF PLANTED WETLAND SPECIES IN ANY SITUATION WITHIN THE MITIGATION AREA, THE APPLICANT MUST SUBMIT A REMEDIATION PROGRAM (TWO COPIES) FOR DISTRICT STAFF REVIEW AND APPROVAL.

26. THE PERMITTEE MUST SUBMIT TWO COPIES OF AN AS-BUILT SURVEY OF THE WETLAND CREATION AREA(S) CERTIFIED BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER SHOWING DIMENSIONS, GRADE, GROUND ELEVATIONS, AND WATER SURFACE ELEVATIONS AND AN INVENTORY OF THE PLANTED SPECIES IN THE WETLAND CREATION AREA(S). THE INVENTORY MUST INCLUDE THE TYPE, NUMBER, DISTRIBUTION, AND SIZE (IF APPLICABLE) OF VEGETATION, AND MUST BE REFERENCED TO THE AS-BUILT SURVEY. THE AS-BUILT SURVEY AND THE INVENTORY MUST BE SUBMITTED WITHIN THIRTY (30) DAYS OF COMPLETION OF INITIAL PLANTING.

27. THE PERMITTEE MUST PLANT HERBACEOUS WETLAND SPECIES, APPROVED BY DISTRICT STAFF, TO SUPPLEMENT GROUND COVER, IF NATURAL RECRUITMENT OF DESIRABLE SPECIES DOES NOT OCCUR IN THE COVER SITUATION OF THE WETLAND CREATION AREA. IF PLANTED, SUCH SPECIES MUST ACHIEVE 80% COVER AFTER A THREE YEAR PERIOD.

28. IRRIGATION AND FERTILIZATION OF THE WETLAND CREATION AREA MAY OCCUR IN THE FIRST YEAR AFTER INITIAL PLANTING IN ACCORDANCE WITH RULE 40C-27, F.A.C.

29. THE USE OF NON-NATIVE GRASSES, OR THE PLACEMENT OF SOIL IN THE WETLAND CREATION AREAS IS SPECIFICALLY PROHIBITED.

30. THIS PERMIT SUPERSEDES ANY CONDITIONS REGARDING MITIGATION THAT WERE APPROVED IN PERMIT 4-093-0033M.



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

SEP 20 1991

Regulatory Division
Central Permits Branch
199000060(IP-BL)

Mr. James L. Clark
ICP Associates
8248 International Corporate Park Boulevard
Orlando, Florida 32832

RECEIVED

SEP 23 1991

EMD

Dear Mr. Clark:

This letter refers to Department of the Army permit application number 199000060(IP-BL). The application is for 17.76 acres of wetland fill for the construction of Alafaya Trail from the present terminus to a point one-half mile south of the Bee Line Expressway in Orange County, Florida.

The Corps has completed the evaluation of your proposal and is in a position to issue your Department of the Army permit but by law cannot do so until the State of Florida has issued Section 401 Water Quality Certification for the project.

You must notify us in writing when you receive a State permit/certification and enclose a copy of the State permit/certification as well as any revised drawings illustrating project modifications. Upon receipt of State approval the Department of the Army permit will be issued, providing the State approval is furnished within two years of the date of this letter and there have been no significant changes in the Corps evaluation policies during that period nor any significant project modifications.

You are cautioned that commencement of the proposed work prior to Department of the Army authorization would constitute a violation of Federal laws and subject you to possible enforcement action. Receipt of a permit from the Florida Department of Environmental Regulation does not obviate the requirement for obtaining a Department of the Army permit prior to commencing the proposed work.

If you have any questions, please contact Ms. Beverlee Lawrence at the letterhead address or by telephone at (904) 791-2517.

Sincerely,

John R. Hall
Chief, Regulatory Division

Page 6.2-48

January 8, 1990

Mr. Pat Frost
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
618 E. South Street, Suite 200
Orlando, Florida 32801

Reference: **Alafaya Trail Extension
Dredge and Fill Permit Application**

Dear Mr. Frost:

International Corporate Park (ICP) plans to build an extension to Alafaya Trail in east Orange County which will consist of 4.2 miles of two-lane roadway improvements and a new bridge structure over the Bee Line Expressway. At the conclusion of construction, this roadway will be turned over to Orange County to comply with ICP's Development Order and to form an integral part of the County's future road system. The new alignment will adjoin the southern terminus of existing Alafaya Trail at the Orlando Utilities Commission Curtis H. Stanton Energy Center and will terminate 3,000 feet south of the Bee Line Expressway.

Enclosed are two (2) permit application packages for this project. Each package contains the following items:

1. A completed joint permit application with three (3) attachments.
2. Four (4) sets of permit drawings (one set has the original P.E. Certification).
3. Two (2) sets of blueline aerials (1" = 300') of the project area.
4. One (1) set of aerials with the location of the red-cockaded woodpecker cavity trees in the project area.

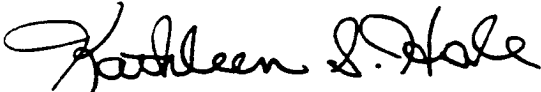
Greiner

Mr. Pat Frost
January 8, 1990
Page Two

If you require additional information or have any questions, please do not hesitate to contact us.

Sincerely,

GREINER, INC.



Kathleen S. Hale, E.P.
Manager, Environmental Services

KSH:d
Enclosures

CC: Mr. Jim Clark, ICP, w/encl.
Mr. Ralph Smith, ICP, w/encl.
Mr. George Cole, Orange County, w/encl.
Mr. Joe Montalto, LEI, w/encl.
Mr. Greg Smith, Greiner, w/encl.

JOINT APPLICATION
DEPARTMENT OF THE ARMY/FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
For Activities in the Waters of the State of Florida

CORPS APPLICATION NUMBER (official use only)

DER APPLICATION NUMBER (official use only)

1. APPLICANT'S NAME AND ADDRESS

I N T E R N A T I O N A L C O R P O R A T E P A R K &
NAME

9 3 3 L E E R D S U I T E 4 0 0
STREET

O R L A N D O F L 3 2 8 1 0
CITY STATE ZIP

TELEPHONE NUMBER (Day) (407) 629-6660 (ICP) (Night) ()

2. Name, address, zip code and title of applicant's authorized agent for permit application coordination

Ms. Kathleen S. Hale
GREINER, INC.
225 E. Robinson St., Suite 255
Orlando, FL 32801-1913

Telephone Number (407) 422-0353

3. NAME OF WATERWAY AT LOCATION OF THE ACTIVITY.

Hart Branch, Cowpen Branch & Green Branch

DER Code _____
W/M Code _____

4. LOCATION WHERE PROPOSED ACTIVITY EXISTS OR WILL OCCUR

Bee Line Expwy-10.5 miles E. of SR 436
Street, road or other descriptive location

N/A
Incorporated city or town

Orange
County

18,19,29
30,32 23S 32E
Section Township Range
28°27'30" 81°08'15"
Latitude Longitude

Tax Assessors Description: (if known)

Map No. Subdiv. No. Lot No.

5. NAME AND ADDRESS INCLUDING ZIP CODE OF ADJOINING PROPERTY OWNERS WHOSE PROPERTY ALSO ADJOINS THE WATERWAY.

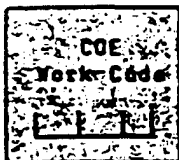
See Attachment "A" - Adjoining Property Owners

6. PROPOSED USE

Private Single Dwelling [] Private Multi-dwelling [] Public [X]
Commercial [] Other [] (Explain in remarks)

7. DESCRIPTION OF PROJECT (Use additional sheets, if necessary)

A. Structures: 1. New work [X] Maintenance of existing structure []



2. Piers, docks and uses: Commercial [] Private [] Public []

- a. Single pier [] length _____ width _____
 b. Number of piers [] length _____ width _____
 c. Number of boat slips [] length _____ width _____
 d. Number of finger piers [] length _____ width _____
 e. Other (please describe) _____

3. Seawalls, revetments, bulkheads: length _____

- a. Type: Vertical [] Riprap [] Slope: _____ Horizontal: _____ Vertical
 b. Material to be used _____

4. Other type of structure 6'x24' arch culvert in Green Br., 2-1/2" RCP in Cowden Br., 6'x20' arch culvert in Part Br.

B. Excavation or Dredging: New Work [X] Maintenance work [] Total acreage involved 1.37
2.67

1. Access Channel [] or Canal [] Length _____ ft. Width _____ ft. Depth _____ ft.
 2. Boat Basin [] or Boat Slip [] Length _____ ft. Width _____ ft. Depth _____ ft.
 3. Other Alafaya Trail Extension Length varies ft. Width varies ft. Depth varies ft.

4. Cubic yards: Total for project 13,893 5,781 FDER
5,781 FDER 0 FDER
 a. 5,781 ACOE cyd. waterward/ 8,112 ACOE cyd. landward of ordinary/mean high water
 b. 1,795 (demucking) 9,417 (demucking) sand with silt and clayey sand

C. Fill:

1. Amount of material

DER
Code
253
403

- a. Cubic yards placed waterward of ordinary/mean high water 3,712 FDER
13,997 ACOE
 b. Cubic yards placed landward of ordinary/mean high water 1,795 (Backfilling)
8,711 FDER
106,957 ACOE
 c. Total acreage to be filled 2.43 FDER Total acreage of wetlands involved 2.43 FDER
16.16 ACOE 17.26 ACOE

2. Containment for fill

- a. Dikes [] b. Seawall, etc. [] c. Other (please explain) On site
Uplands with vegetated slopes

3. Type of fill material to be used clean sand

4. Source of fill material to be used offsite uplands

8. Date activity is proposed to commence March 1990 ; to be completed July 1991 .

9. Previous permits for this project have been _____ DER # _____ Corps # _____

A. Denied (date) _____

B. Issued (date) _____

C. Other (please explain) SJRWMD MSSW Permit Application to be submitted 1/9/90

Differentiate between existing work and proposed work on the drawings.

10. Remarks (See Instruction Pamphlet for additional information required for all applications and certain activities. Use additional sheets if necessary.)

See Attachment "B" - Environmental Report

11. AFFIDAVIT OF OWNERSHIP OR CONTROL of the property on which the proposed project is to be undertaken

I CERTIFY THAT: (please check appropriate space)

☒ I am the record owner, lessee, or record easement holder of the property described below.

☐ I am not the record owner, lessee, or record easement holder of the property described below, but I will have before undertaking the proposed work the requisite property interest. (Please explain what the interest will be and how it will be acquired.)

LEGAL DESCRIPTION OF PROPERTY SITUATED IN Orange COUNTY, FLORIDA
(Use additional sheets if necessary)

See Attachment "C"

James G. Clark
Signature

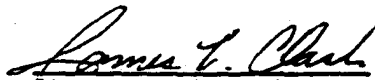
Sworn and subscribed before me at STATE OF FLORIDA, ORANGE County,
this 9th day of JANUARY, 1990

Patricia A. Baker
Notary Public, State of Florida at Large
My Commission Expires September 17, 1990
Bonded thru Huckleberry & Associates

12. Application is made for a permit(s) to authorize the activities described herein.

- A. I authorize the agent listed in Item #2 to negotiate modifications or revisions, when necessary, and accept or assent to any stipulations on my behalf.
- B. I understand I may have to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable State Water Quality Standards or other environmental standards both before construction and after the project is completed.
- C. In addition, I agree to provide entry to the project site for inspectors with proper identification or documents as required by law from the environmental agencies for the purpose of making preliminary analyses of the site. Further, I agree to provide entry to the project site for such inspectors to monitor permitted work if a permit is granted.
- D. Further, I hereby acknowledge the obligation and responsibility for obtaining all of the required state, federal or local permits before commencement of construction activities. I also understand that before commencement of this proposed project I must be granted separate permits or authorizations from the U.S. Corps of Engineers, the U.S. Coast Guard, the Department of Environmental Regulation, and the Department of Natural Resources, as necessary.

I CERTIFY that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.


Signature of Applicant

1-9-90
Date

NOTE: THIS APPLICATION MUST BE SIGNED by the person who desires to undertake the proposed activity or by an authorized agent. If an agent is applying on behalf of the applicant, attach proof of authority for the agent to sign and bind the applicant.

18 U.S.C. Section 1001 provides that: Whoever in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

NOTICE TO PERMIT APPLICANTS

This is a Joint Application; it is NOT a Joint Permit!

You Must Obtain All Required Local, State, and Federal

Authorizations or Permits Before Commencing Work!!

For your information: Section 370.034, Florida Statutes, requires that all dredge and fill equipment owned, used, leased, rented or operated in the state shall be registered with the Department of Natural Resources. Before selecting your contractor or equipment you may wish to determine if this requirement has been met. For further information, contact the Chief of the Bureau of Licenses and Motorboat Registration, Department of Natural Resources, 3900 Commonwealth Boulevard, Tallahassee, Florida 32303. Telephone Number 904/488-1195. **THIS IS NOT A REQUIREMENT FOR A PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL REGULATION.**

ATTACHMENT "A"

ADJOINING PROPERTY OWNERS

D.O.C.

State of Florida
Dept. of Corrections
1311 Winewood Blvd.
Tallahassee, FL 32399-2500

Mr. Ned Terry 904/487-1330
Mr. Ralph Kenyon

O.U.C.

Orlando Utilities Commission
P. O. Box 3193
Orlando, FL 32802

Mr. Wendell Dixon 407/423-9100

Deseret Ranches of Florida

Star Route
Box 1250
Melbourne, FL 32904

Mr. John King 407/892-5646

ATTACHMENT "B"
ENVIRONMENTAL REPORT

1. BACKGROUND

International Corporate Park (ICP) plans to extend Alafaya Trail from its present terminus near S.R. 50 to a point one-half mile south of the Bee Line Expressway. This work will consist of constructing 4.2 miles of two-lane rural roadway improvements for Alafaya Trail and a new bridge structure over the Bee Line Expressway.

Construction start date is based on the Development Order approved by Orange County. At the conclusion of this construction, these improvements will be turned over to Orange County in compliance with ICP's Development Order. Entities which will be served by this roadway extension include the Orlando Utilities Commission Curtis H. Stanton Power Plant, the Florida Department of Corrections prison facility and International Corporate Park, a 3,000-acre proposed business/industrial park.

2. PROJECT STATUS

Alafaya Trail is currently under final design with construction anticipated to begin in early 1990. Initially, only two lanes of Alafaya Trail will be built at first although at a later date, additional lanes will be added to form a divided four-lane roadway. The future Alafaya Trail/Bee Line Expressway interchange is expected to be constructed in the mid-1990s.

The proposed Alafaya Trail alignment was set after an exhaustive study to minimize environmental impacts to wetlands and protected wildlife such as the red-cockaded woodpecker. On May 1, 1989, a Public Hearing concerning this project was held before the Orange County Board of County Commissioners to brief interested parties on the project and to

gain the County's initial concurrence of the alignment and typical section before proceeding with the design work. The Commissioners voted to approve this alignment.

3. Previous permit activities within this project limit involved installation of two 24-inch diameter pipelines consisting of a water main and a force main. Permitting included State of Florida Department of Environmental Regulation Permit Number CS48-138524 covering the construction of the sewage collection/transmission system and a Nationwide Permit from the U.S. Army Corps of Engineers (87NW780363) for construction of the water main and wastewater force main. St. Johns River Water Management District did not require a permit for construction of these pipelines. A 90-foot right-of-way has been previously cleared for approximately two miles starting at the north end of the project.
4. As part of this project, approximately 2.43 acres of FDER jurisdictional wetlands, 20.29 acres of St. Johns River Water Management District jurisdictional wetlands and 17.26 acres of U.S. Army Corps of Engineers jurisdictional wetlands will be affected.
5. This project will require the following quantities of dredge and fill:

	<u>ACOE</u>	<u>FDER</u>	
Landward dredge	8,112 CY	0	CY
Waterward dredge	5,781 CY	5,781	CY
Landward fill	106,957 CY	8,711	CY
Waterward fill	18,997 CY	8,712	CY

5. Fill source(s) will be clean, compactible soil material from an upland source.

6. All necessary turbidity and erosion control measures will be implemented during construction to minimize water quality degradation on adjacent wetlands. Visual monitoring for potential turbidity problems will be conducted throughout the construction activities.
7. During construction, all bare ground will be seeded, sodded and/or otherwise appropriately treated to prevent runoff of suspended solids into adjacent water bodies.
8. Attached is Table 1 listing each wetland by agency jurisdiction with the amount of wetland encroachment (by acreage) and the wetland vegetation community affected by the Alafaya Trail Extension.

Table 1
ALAFAYA TRAIL JURISDICTIONAL WETLANDS

Wetland Number ^a	FLUCFCS Category ^b	Project Impact Acreage	Agency Jurisdiction ^c
3	621	0.23	ACOE, SJRWMD
4	621	0.07	ACOE, SJRWMD
5	643	0.05	ACOE, SJRWMD
5A	621	0.32	SJRWMD
7B	621	0.06	ACOE, SJRWMD
10	630	0.41	ACOE, SJRWMD FDER
10	630	0.13	SJRWMD, FDER
11	621	0.09	ACOE, SJRWMD
11	621	0.71	SJRWMD
12	621	0.55	ACOE, SJRWMD
12	643	0.41	SJRWMD
13	621	0.56	ACOE, SJRWMD FDER
13	621	0.32	SJRWMD
14	621	0.50	ACOE, SJRWMD FDER
15	621	0.58	ACOE, SJRWMD
15	643	0.20	ACOE, SJRWMD
16	621	0.87	ACOE, SJRWMD
17	643	0.35	ACOE, SJRWMD
20	621	0.21	ACOE, SJRWMD
21	621	0.03	ACOE, SJRWMD
23B	643	0.16	ACOE, SJRWMD
24	621	1.14	ACOE, SJRWMD
25	621	0.83	ACOE, SJRWMD FDER
26	510	0.17	ACOE
26A	643	0.06	ACOE
27	510	0.03	ACOE
29	643	0.25	ACOE
31	510	0.04	ACOE
32	510	0.09	ACOE
41A	643	0.13	ACOE
41B	643	0.26	SJRWMD
42	643	0.08	ACOE, SJRWMD
43	643	1.38	ACOE, SJRWMD
43		0.67	SJRWMD, FDER
44	643	0.97	ACOE, SJRWMD
45	643	0.27	ACOE, SJRWMD
46	643	0.15	ACOE, SJRWMD
47	643	2.58	ACOE, SJRWMD

Wetland Number ^a	FLUCFCS Category ^b	Project Impact Acreage	Agency Jurisdiction ^c
48	643	0.60	ACOE, SJRWMD
48	643	0.16	SJRWMD
49	643	0.41	ACOE, SJRWMD
50	643	0.40	ACOE, SJRWMD
51	643	0.35	ACOE, SJRWMD
52	643	1.34	ACOE, SJRWMD
52	643	0.23	SJRWMD
53	643	0.97	ACOE, SJRWMD
54	643	0.37	SJRWMD
55	643	0.11	SJRWMD

TOTAL IMPACT (AC):

	510	621	630	643	TOTAL
ACOE	0.38	5.72	0.41	10.75	17.26
SJRWMD	--	7.07	0.54	12.68	20.29
FDER	--	1.89	0.54	--	2.43

^aSee Permit Drawings (Sheet 2 of 15) for location of Wetlands

^b510 - Drainage Ditch
621 - Cypress
630 - Mixed wetland forest
643 - Wet prairie

^cACOE - Army Corps of Engineers
SJRWMD - St. Johns River Water Management District
FDER - Florida Department of Environmental Regulation

ATTACHMENT "C"

LEGAL DESCRIPTIONS

Legal Description: Interchange North of Bee Line

Commence at the Southwest corner of Section 29, Township 23 South, Range 32 East, Orange County, Florida; thence run N.00°04'38"W. along the West line of the Southwest 1/4 of said Section 29 a distance of 64.19 feet to a point on the North right of way line of the Bee Line Expressway (S.R. 528); thence leaving said West line run N.78°29'51"E. along aforementioned North right of way line a distance of 333.58 feet for a POINT OF BEGINNING; said point also being on a curve concave Northwesterly having a radius of 864.93 feet and a central angle of 13°31'01"; thence leaving said Northerly right of way from a tangent bearing of N.58°57'30"E. run Northeasterly along the arc of said curve a distance of 204.05 feet to the point of tangency; thence run N.45°26'30"E. 564.35 feet to the point of curvature of a curve concave Southeasterly having a radius of 640.00 feet and a central angle of 26°02'37"; thence run Easterly along the arc of said curve 290.91 feet to the point of tangency; thence run N.71°29'07"E. 395.54 feet to the point of curvature of a curve concave Northwesterly having a radius of 460.00 feet and a central angle of 67°13'46"; thence run Northerly along the arc of said curve a distance of 539.75 feet to the point of tangency; thence run N.04°15'21"E. 460.03 feet; thence run N.00°26'30"E. 100.00 feet; thence run S.89°33'30"E. 47.20 feet; thence run N.00°26'30"E. 49.94 feet to the point of curvature of a curve concave Southwesterly having a radius of 2,201.83 feet and a central angle of 26°55'05"; thence run Northwesterly along the arc of said curve a distance of 1,034.44 feet; thence leaving said curve run S.61°10'52"W. 1,454.96 feet to the point of curvature of a curve concave Southeasterly having a radius of 910.00 feet and a central angle of 20°36'38"; thence run Southwesterly along the arc of said curve a distance of 327.35 feet to the point of tangency; thence run S.40°34'14"W. 230.78 feet to a point on the aforementioned West line of the Southwest 1/4 of Section 29; thence run N.00°04'38"W. along said West line of the Southwest 1/4 of Section 29 a distance of 276.32 feet; thence leaving said West line run N.40°34'14"E. 21.12 feet to the point of curvature of a curve concave Southeasterly having a radius of 1,090.00 feet and a central angle of 20°36'38"; thence run Northeasterly along the arc of said curve a distance of 392.09 feet to the point of tangency; thence run N.61°10'52"E. 1,454.96 feet to a point on a curve concave Southwesterly having a radius of 2,201.83 feet and a central angle of 26°55'05"; thence from a chord bearing of N.44°37'14"W. run Northwesterly along the arc of said curve a distance of 1,034.44 feet to the point of tangency; thence run N.58°04'47"W. 1,017.85 feet to a point on the West line of the Northwest 1/4 of the aforementioned Section 29; thence run N.00°15'55"E. along said West line of the Northwest 1/4 of Section 29 a distance of 211.46 feet; thence leaving said West line run S.58°04'47"E. 1,128.83 feet to the point of curvature of a curve concave Southwesterly having a radius of 2,381.83 feet and a central angle of 58°31'17"; thence run Southeasterly along the arc of said curve a distance of 2,432.78 feet to the point of tangency; thence run S.89°33'30"E. 50.49 feet; thence run S.01°50'56"E. 541.33 feet to the point of curvature of a curve concave Northeasterly having a radius of 460.00 feet and a central angle of 42°42'34"; thence run Southeasterly along the arc of said curve a distance of 342.89 feet to the point of tangency; thence run S.44°53'34"E. 1,216.48 feet to the point of curvature of a curve concave Northeasterly having a radius of 626.20 feet and a central angle of 45°00'00"; thence run Southeasterly along the arc of said curve a distance of 491.81 feet to the point of tangency; thence run S.89°33'30"E. 909.80 feet to a point on the South line of the aforementioned Section 29; thence run S.89°35'34"W. along the South line of said Section 29 a distance of 2,436.71 feet to a point on the North right of way line of the Bee Line Expressway (S.R. 528); thence leaving said South line of Section 29 run the following courses and distances along said North right of way line: N.78°00'30"W. 1,151.69 feet; thence run S.78°29'51"W. 617.85 feet to the POINT OF BEGINNING.

Containing 71.189 acres, more or less.

LEGAL DESCRIPTION SECTION 32

Begin at the Southwest corner of Section 32, Township 23 South, Range 32 East, Orange County, Florida; thence run N.00°00'48"W. along the West line of the Southwest 1/4 of said Section 32 a distance of 30.00 feet to a point on a curve concave Northwesterly having a radius of 1,875.81 feet and a central angle of 89°21'32"; thence leaving said West line from a tangent bearing of N.89°48'02"E. run Northeasterly along the arc of said curve a distance of 2,925.53 feet to the point of tangency; thence run N.00°26'30"E. 382.18 feet to a point of curvature of a curve concave Southwesterly having a radius of 25.00 feet and a central angle of 90°00'00"; thence run Northwesterly along the arc of said curve a distance of 39.27 feet to the point of tangency; thence run N.89°33'30"W. 116.12 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,339.83 feet and a central angle of 24°42'48"; thence run Northwesterly along the arc of said curve a distance of 1,009.23 feet to the point of tangency; thence run N.64°50'42"W. 815.73 feet to the point of curvature of a curve concave Southwesterly having a radius of 1,225.24 feet and a central angle of 00°52'29"; thence run Northwesterly along the arc of said curve a distance of 18.71 feet to a point on said curve said point also being on the West line of the Southwest 1/4 of said Section 32; thence leaving said curve run N.00°00'48"W. along the West line of the Southwest 1/4 of said Section 32 a distance of 53.07 feet to the West 1/4 corner of said Section 32; thence run N.00°09'42"E. along the West line of the Northwest 1/4 of said Section 32 a distance of 79.47 feet to a point on a curve concave Southwesterly having a radius of 1,347.24 feet and a central angle of 09°27'16"; thence leaving said West line from a tangent bearing of S.68°01'48"E. run Southeasterly along the arc of said curve 222.31 feet to the point of reverse curvature of a curve concave Northeasterly having a radius of 3,000.00 feet and a central angle of 06°16'10"; thence run Southeasterly along the arc of said curve 328.27 feet to the point of tangency; thence run S.64°50'42"E. 230.96 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,243.83 feet and a central angle of 24°42'48"; thence run Southeasterly along the arc of said curve a distance of 967.82 feet to the point of tangency; thence run S.89°33'30"E. 216.07 feet to the point of curvature of a curve concave Northwesterly having a radius of 25.00 feet and a central angle of 90°00'00"; thence run Northeasterly along the arc of said curve a distance of 39.27 feet to the point of tangency; thence run N.00°26'30"E. 689.99 feet; thence run N.89°33'30"W. 47.07 feet; thence run N.00°26'30"E. 100.00 feet; thence run N.01°50'56"W. 626.90 feet to the point of curvature of a curve concave Southwesterly having a radius of 460.00 feet and a central angle of 68°45'11"; thence run

Northwesterly along the arc of said curve a distance of 551.9 feet to the point of tangency; thence run N.70°36'07"W. 400.84 feet to the point of curvature of a curve concave Northeasterly having a radius of 640.00 feet and a central angle of 26°02'37"; thence run Northwesterly along the arc of said curve a distance of 290.91 feet to the point of tangency; thence run N.44°33'30"W. 353.36 feet to the point of curvature of a curve concave Southwesterly having a radius of 1,342.40 feet and a central angle of 25°23'15"; thence run Northwesterly along the arc of said curve a distance of 594.81 feet to a point on said curve and on the South right of way line of the Bee Line Expressway (S.R. 528); thence leaving said curve run the following courses and distance along said South right of way line; thence run S.77°36'51"E. 811.60 feet; thence run N.78°29'51"E. 1,328.77 feet; thence run S.89°33'30"E. 5,430.32 feet; thence leaving said right of way line run S.89°17'45"W. 1,718.43 feet to the point of curvature of a curve concave Southeasterly having a radius of 5,639.58 feet and a central angle of 03°06'15"; thence run Southwesterly along the arc of said curve a distance of 305.55 feet to the point of reverse curvature of a curve concave Northwesterly having a radius of 11,549.16 feet and a central angle of 04°15'00"; thence run Southwesterly along the arc of said curve a distance of 856.68 feet to the point of tangency; thence run N.89°33'30"W. 1,265.00 feet to the point of curvature of a curve concave Southeasterly having a radius of 460.00 feet and a central angle of 45°00'00"; thence run Southwesterly along the arc of said curve a distance of 361.28 feet to the point of tangency; thence run S.45°26'30"W. 1,285.30 feet to the point of curvature of a curve concave Southeasterly having a radius of 460.00 feet and a central angle of 41°11'09"; thence run Southwesterly along the arc of said curve a distance of 330.66 feet to the point of tangency; thence run S.04°15'21"W. 460.03 feet; thence run S.00°26'30"W. 100.00 feet; thence run N.89°33'30"W. 47.20 feet; thence run S.00°26'30"W. 1,384.63 feet to the point of curvature of a curve concave Northwesterly having a radius of 2,055.81 feet and a central angle of 89°20'10"; thence run Southwesterly along the arc of said curve a distance of 3,205.44 feet to a point on said curve, said point also being on the West line of the Northwest 1/4 of Section 5, Township 24 South, Range 32 East Orange County, Florida; thence run N.00°32'51"W. along said West line a distance of 150.00 feet to the POINT OF BEGINNING;

Together with

Begin at the Northwest corner of Section 33, Township 23 South, Range 32 East, Orange County, Florida; thence run S.89°03'58"E. along the North line of the Northwest 1/4 of said Section 33 a distance of 1,405.12 feet; thence leaving said North line run S.00°26'30"W. 80.35 feet to the North right of way line of the Bee Line Expressway (S.R. 528); thence run the following courses and distances along said North right of way line; thence run N.89°33'30"W. 4,480.51 feet; thence run N.00°26'30"E. 9.33 feet; thence run N.78°00'30"W. 175.03 feet to a point on the North line of Section 32, Township 23 South, Range 32 East, Orange County, Florida; thence run N.89°35'38"E. along said North line a distance of 3,247.19 feet to the POINT OF BEGINNING.

Containing 87.405 acres, more or less.

LEGAL DESCRIPTION SECTION 30

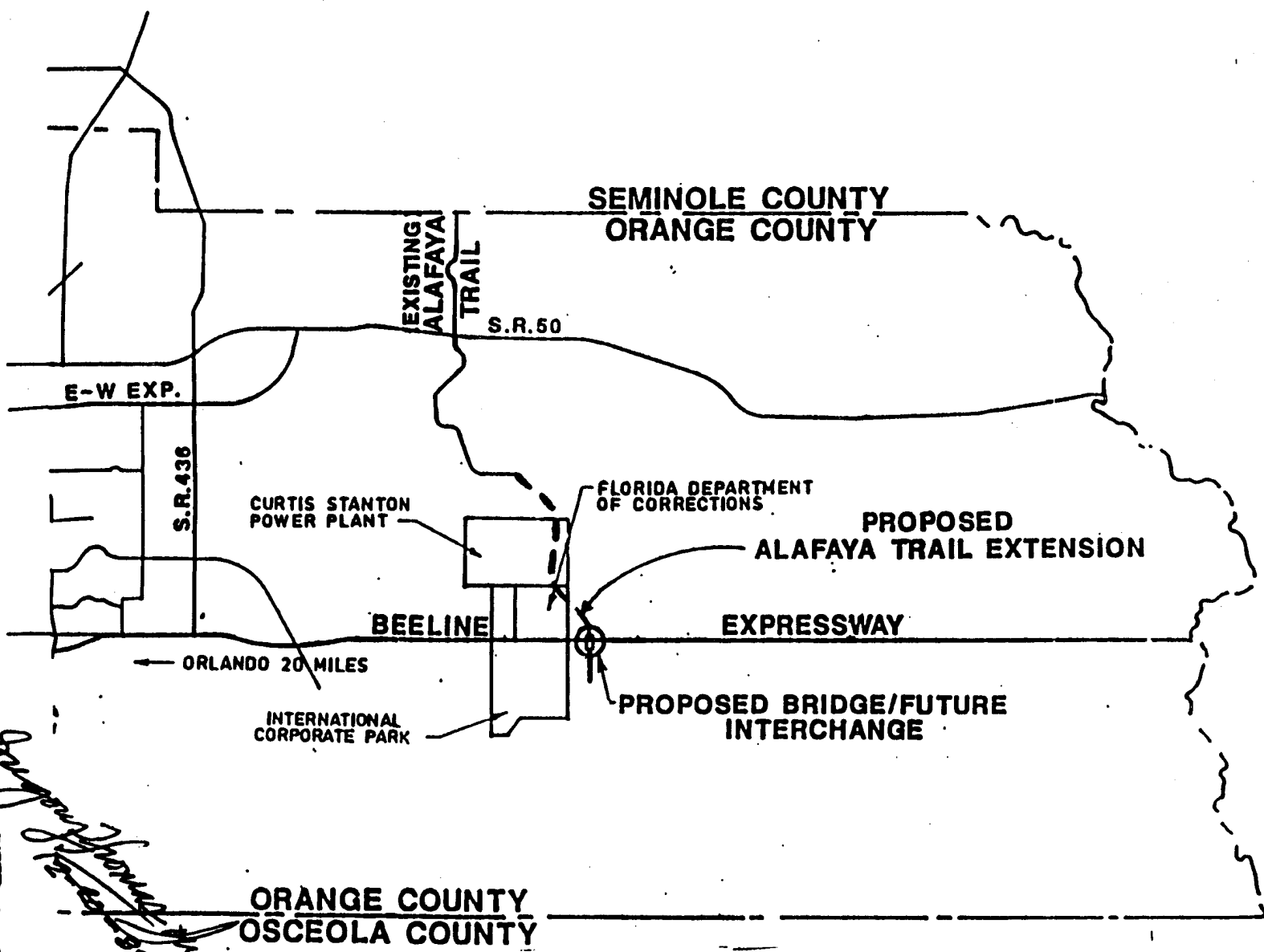
Right of Way description (180 foot wide) Alafaya Trail Extension situate in the Northeast 1/4 of Section 30, Township 23 South, Range 32 East, Orange County, Florida; being more particularly bounded and described as follows:

Commence at the Northeast corner of Section 30, Township 23 South, Range 32 East, Orange County, Florida; thence run S.00 15'55"W. along the East line of the Northeast 1/4 of said Section 30 a distance of 742.18 feet for a POINT OF BEGINNING; thence continue S.00 15'55"W. along said East line a distance of 211.46 feet; thence leaving said line run N.58 04'47"W. 1,027.60 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,173.48 feet and a central angle of 16 39'34"; thence run Northwesterly along the arc of said curve 631.97 feet to a point on the North line of the Northeast 1/4 of said Section 30; thence leaving said curve run N.89 51'23"E. along said North line of Section 30 a distance of 248.49 feet to a point on a curve concave Northeasterly having a radius of 1,993.48 feet and a central angle of 11 56'34"; thence from a tangent bearing of S.46 08'13"E. run Southeasterly along the arc of said curve 415.52 feet to the point of tangency; thence run S.58 04'47"E. 916.63 feet to the POINT OF BEGINNING.

LEGAL DESCRIPTION SECTIONS 18 & 19

Centerline description of a portion of Alafaya Trail extension situate in Section 18 and 19, Township 23 South, Range 32 East, Orange County, Florida; the right of way of said road lying 90 feet right and 90 feet left of the following described centerline said centerline being more particularly described as follows:

Commence at the Northwest corner of Section 18, Township 23 South, Range 32 East, Orange County, Florida; thence run N.89°51'54"E. along the North line of the Northwest 1/4 of Section 18, Township 23 South, Range 32 East, Orange County, Florida, a distance of 924.99 feet to the POINT OF BEGINNING of the centerline of this description; thence along said centerline run S.00°02'52"W. a distance of 10.31 feet to the point of curvature of a curve concave Northeasterly having a radius of 1,762.95 feet and a central angle of 42°43'57"; thence run Southeasterly along the arc of said curve 1,314.85 feet to the point of tangency; thence run S.42°41'05"E. 1,365.76 feet to the point of curvature of a curve concave Southwesterly having a radius of 3,274.05 feet and a central angle of 32°12'44"; thence run Southeasterly along the arc of said curve 1,840.71 feet to a point on the South line of the Southeast 1/4 of Section 18, Township 23 South, Range 32 East, said point also being S.89°48'48"W. a distance of 849.02 feet from the Southeast corner of said Section 18; thence continue along the arc of said curve through a central angle of 37°09'56"; a distance of 2,123.74 feet to the point of tangency; thence run S.26°41'35"W. 979.10 feet to the point of curvature of a curve concave Easterly having a central angle of 70°19'25"; thence run Southerly along the arc of said curve having a radius of 2,083.48 feet, a distance of 2,557.23 feet to the South line of the Southeast 1/4 of said Section 19 and the POINT OF TERMINATION of said centerline; said point being S.89°51'23"W. a distance of 1,235.45 feet from the Southeast corner of Section 19, Township 23 South, Range 32 East; the side lines of said right of way to terminate on the North line of said Section 18 and on the South line of Section 19.



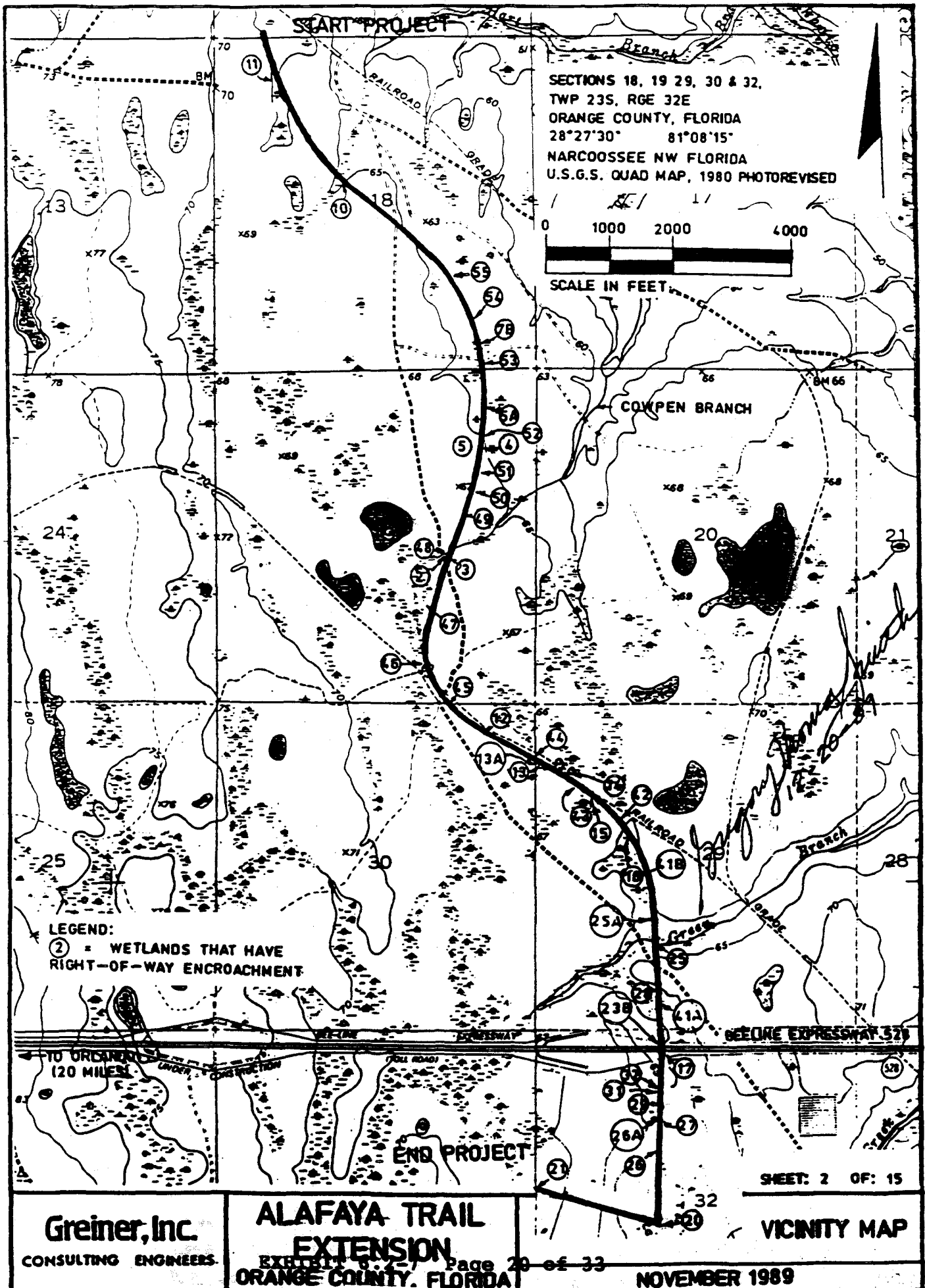
Greiner, Inc.
CONSULTING ENGINEERS

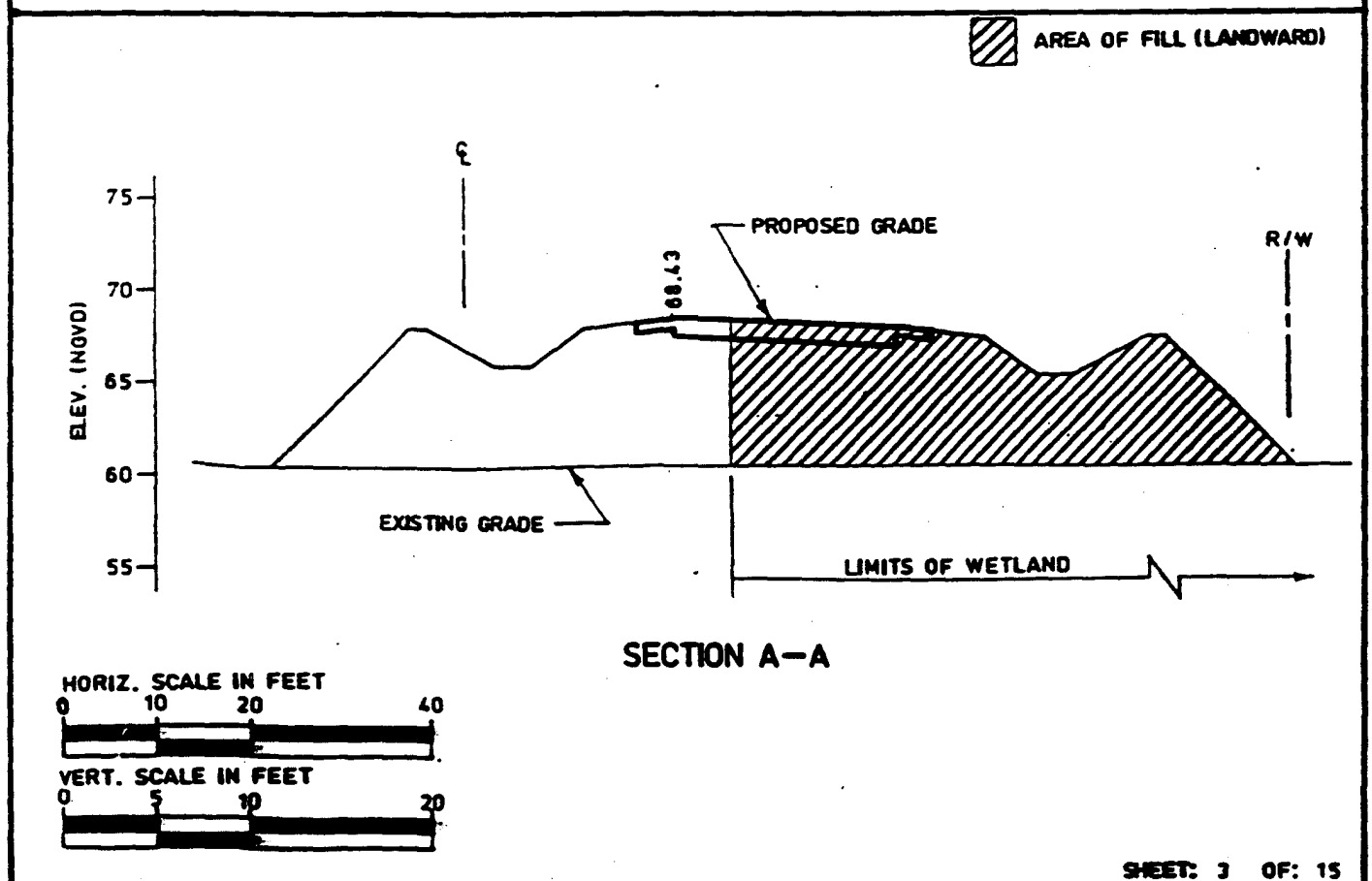
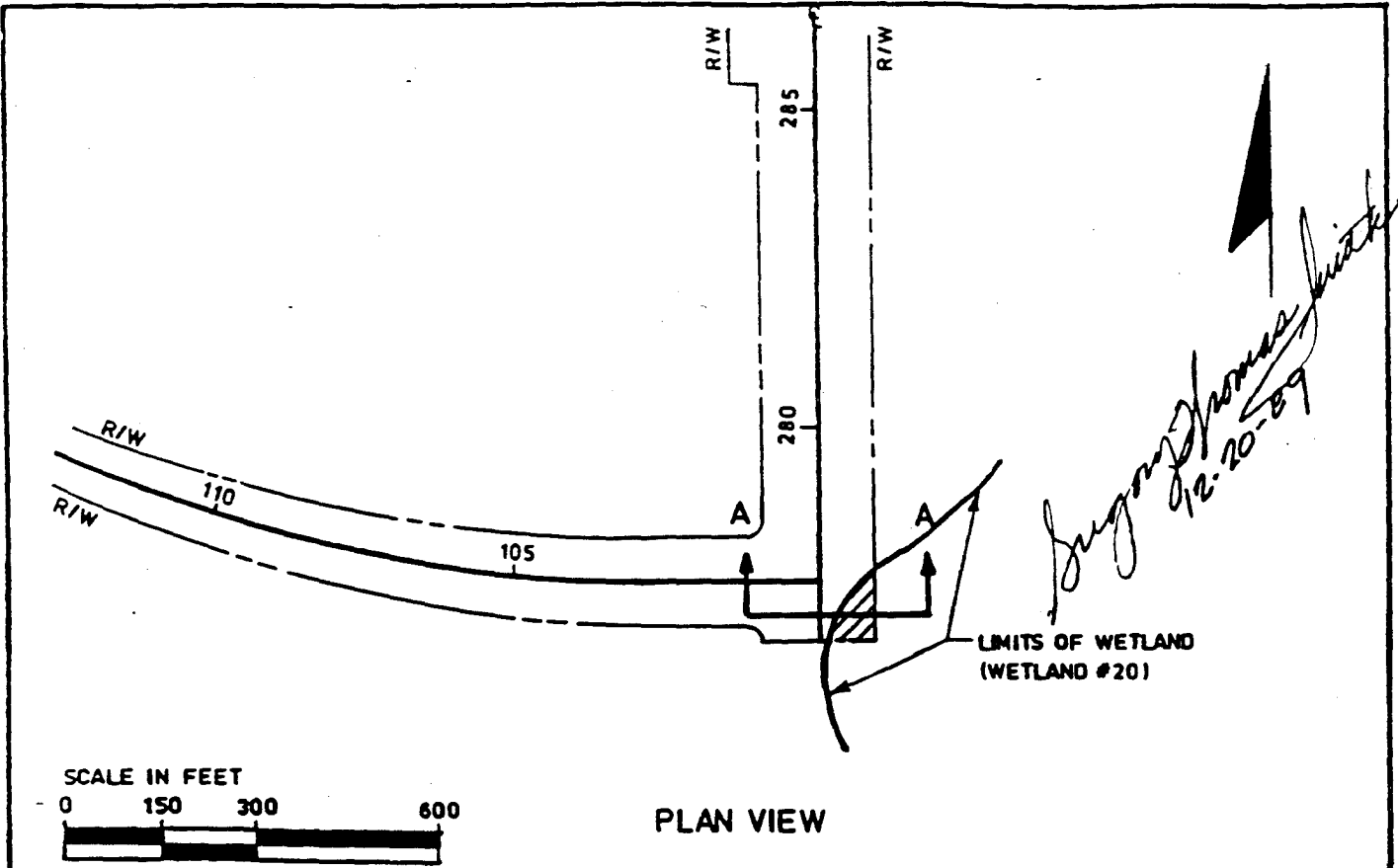
ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

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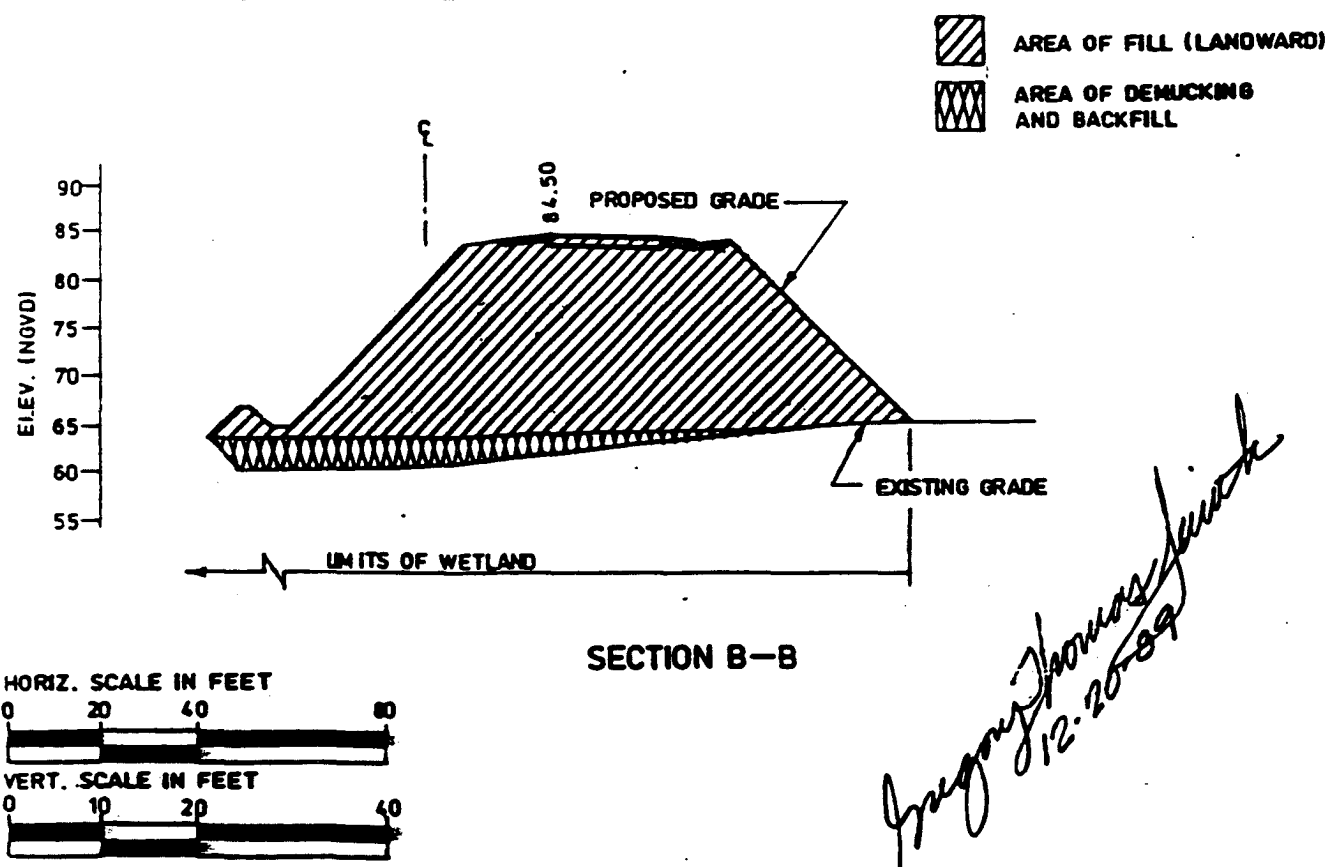
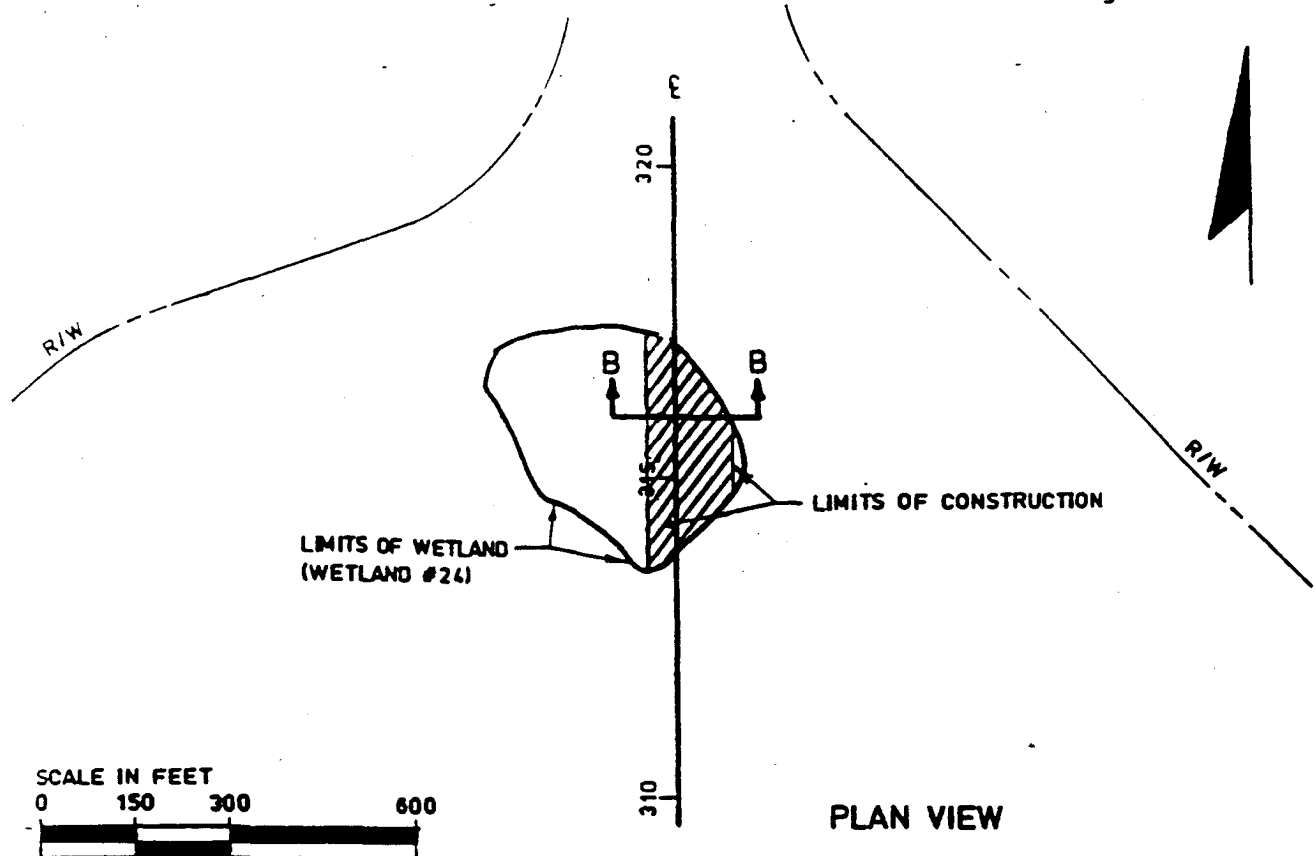
VICINITY MAP
NOVEMBER 1989

Handwritten signature
SHEET: 1 OF: 15



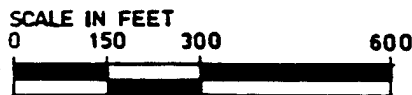
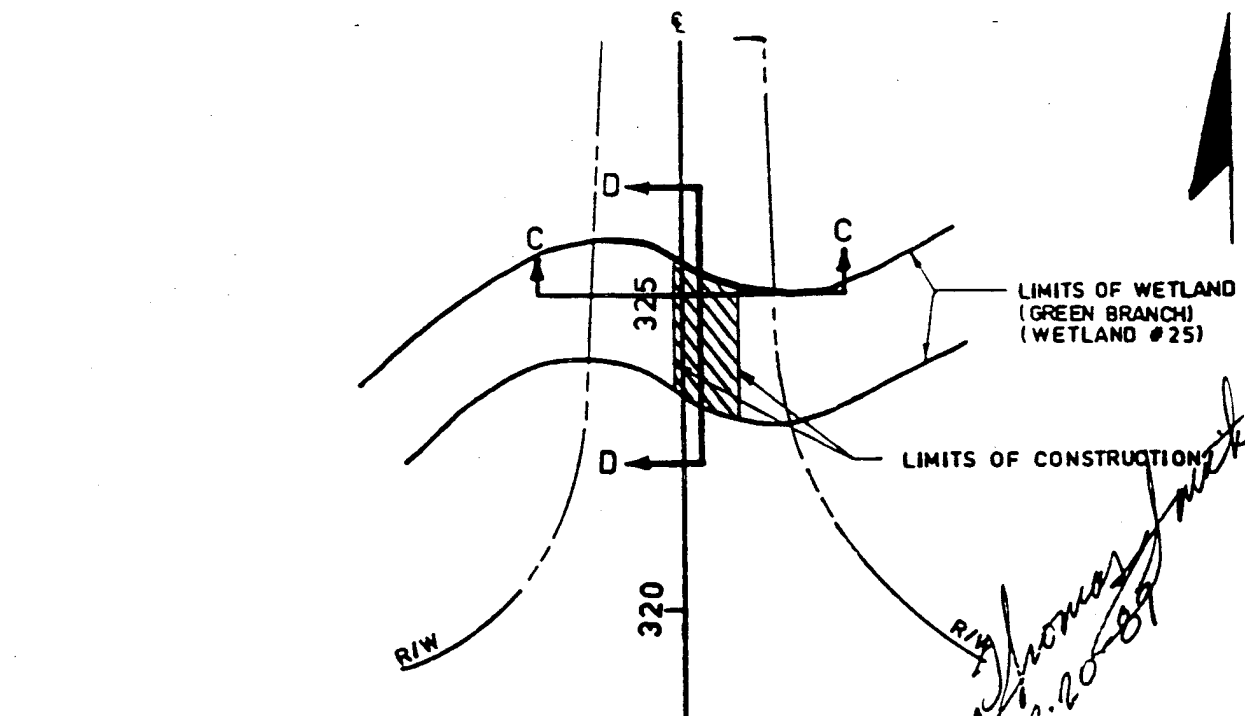


SHEET: 3 OF: 15

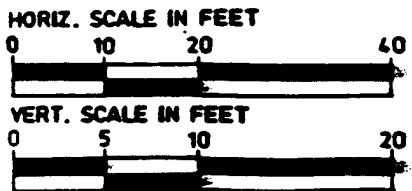
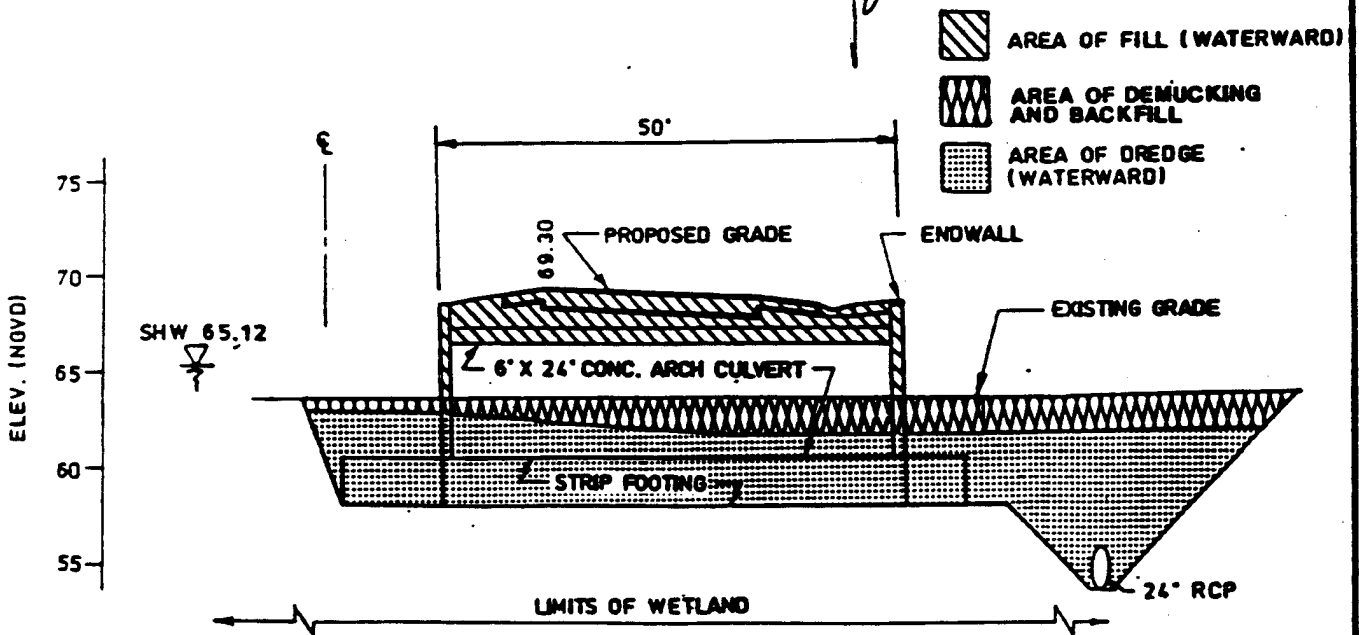


Gregory Thomas Smith
12-20-89

SHEET: 4 OF: 15



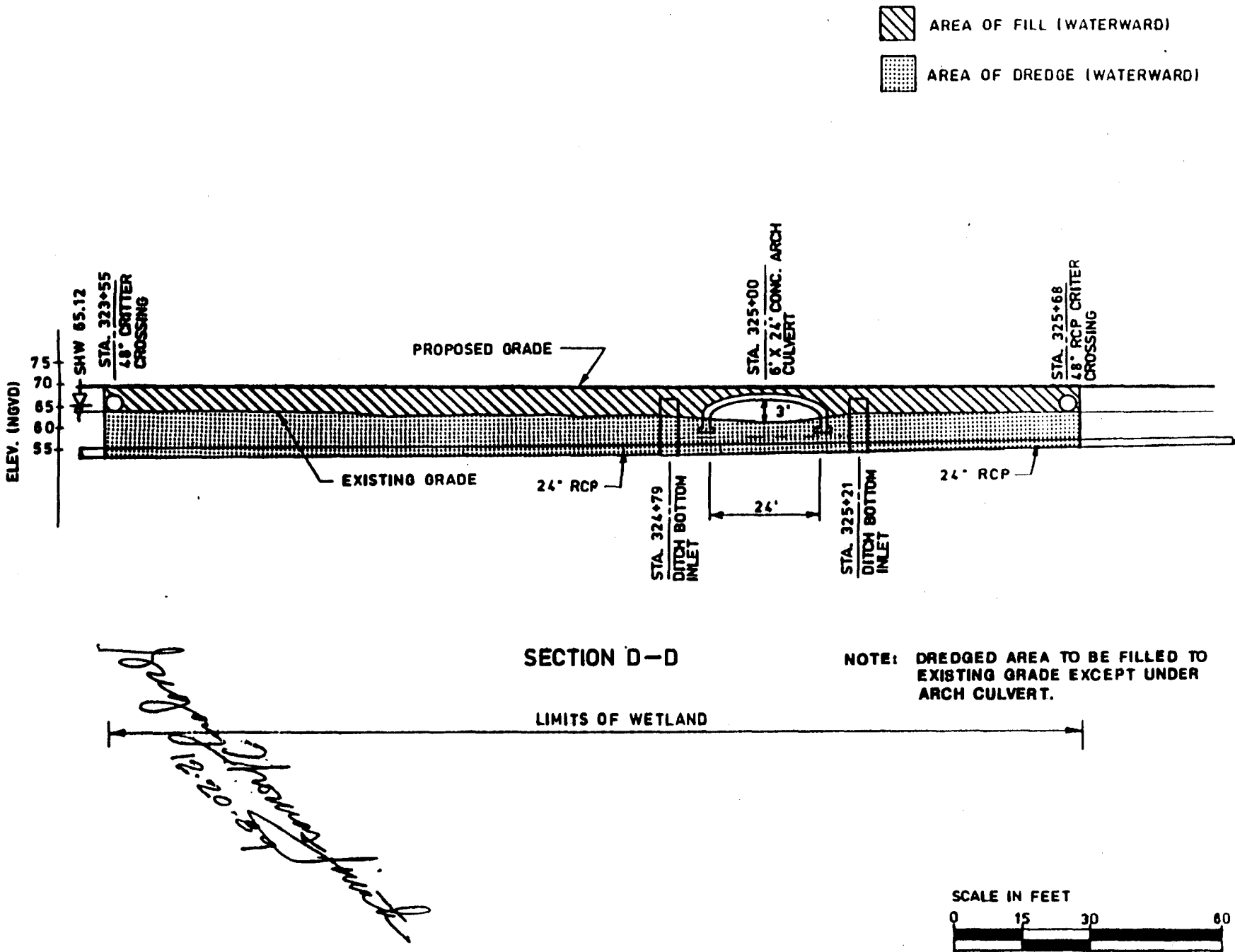
PLAN VIEW

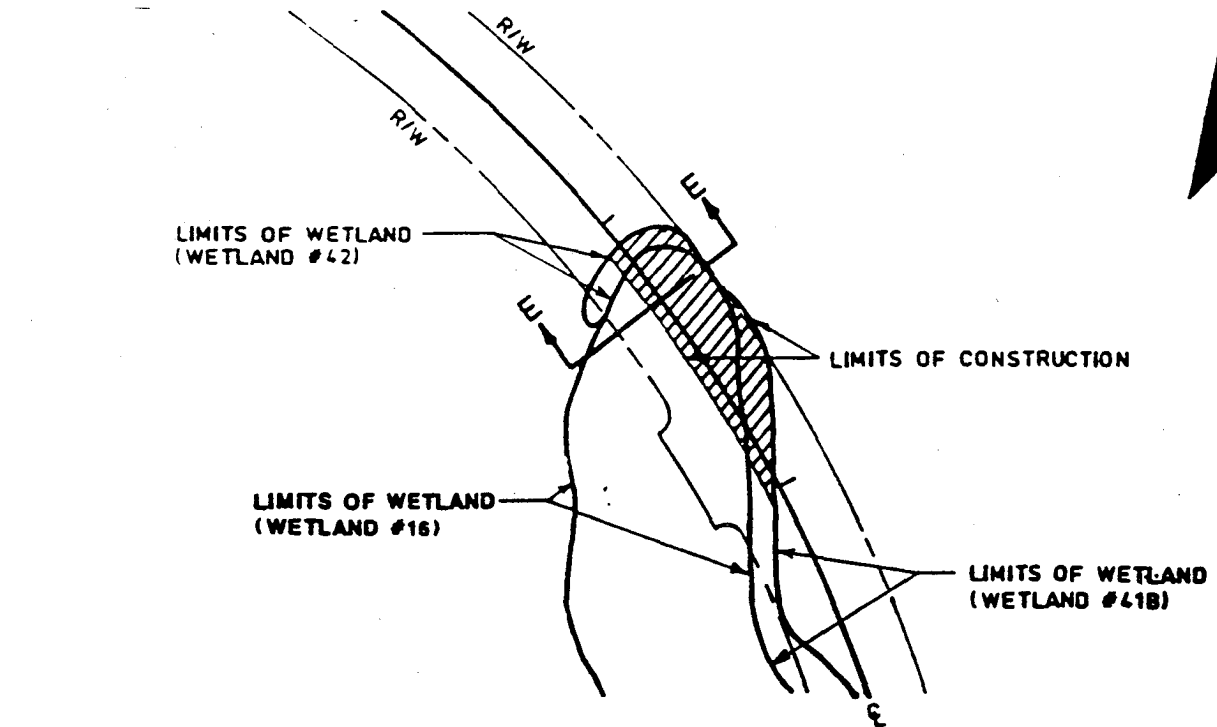


SECTION C-C

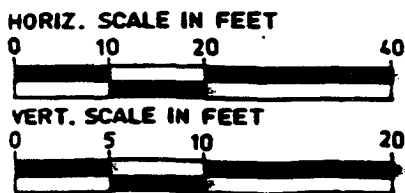
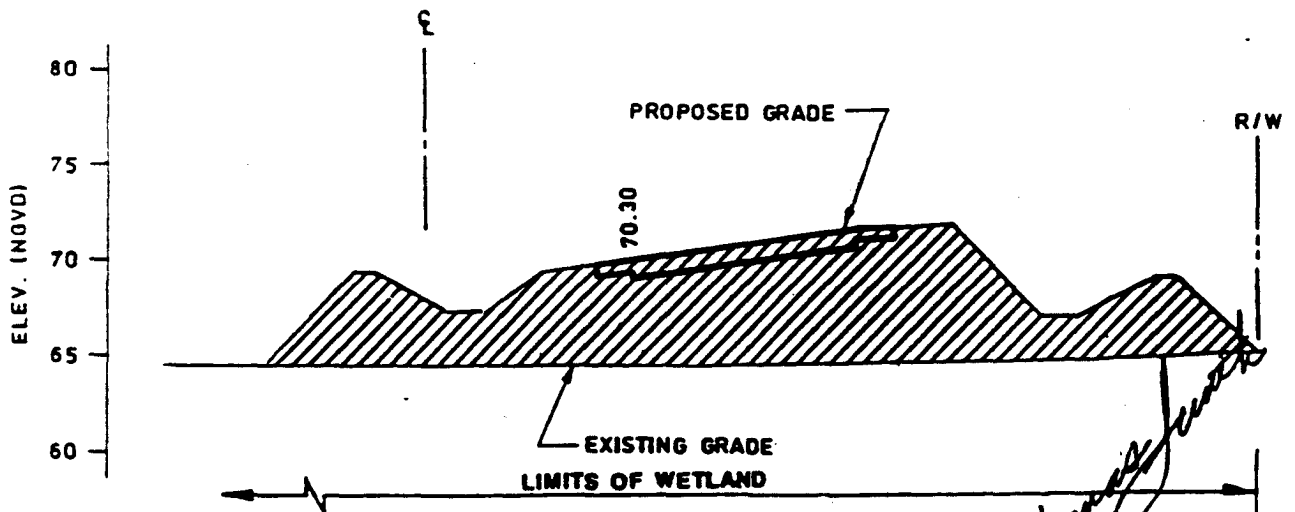
NOTE: DREDGED AREA TO BE FILLED TO EXISTING GRADE EXCEPT UNDER ARCH CULVERT.

SHEET: 5 OF: 15





AREA OF FILL (LANDWARD)



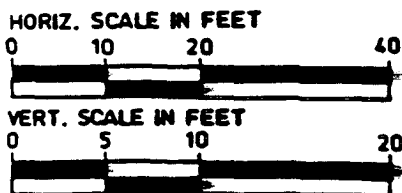
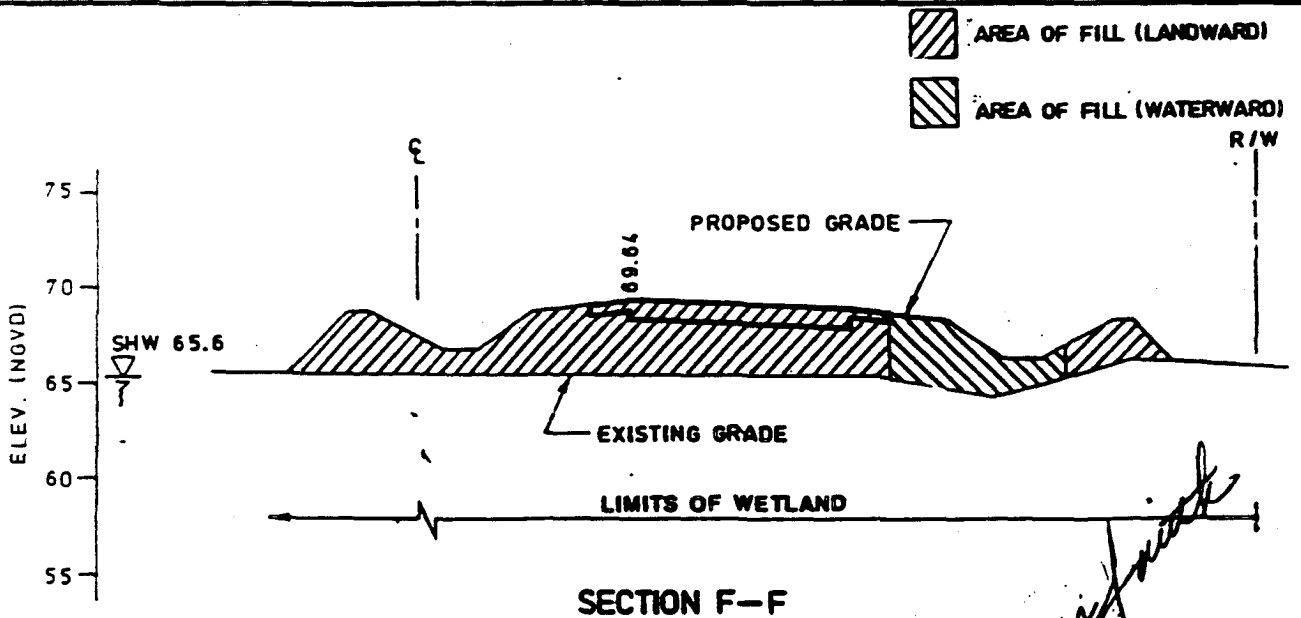
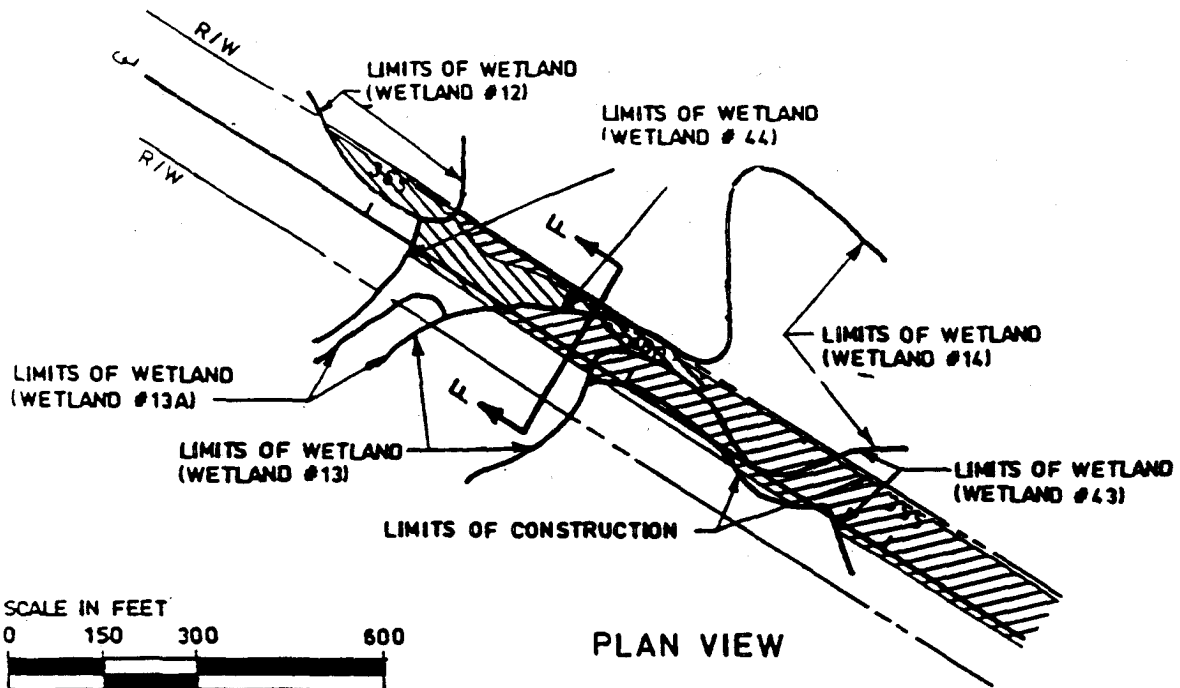
Gregory Thomas
12-20-89

SHEET: 7 OF: 15

Greiner, Inc.
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**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 343 + 00
NOVEMBER 1989



Gregory Thomas
12.20.89

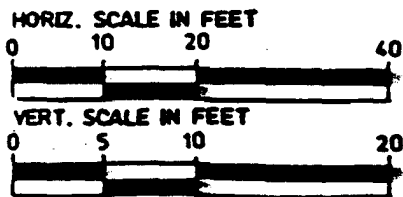
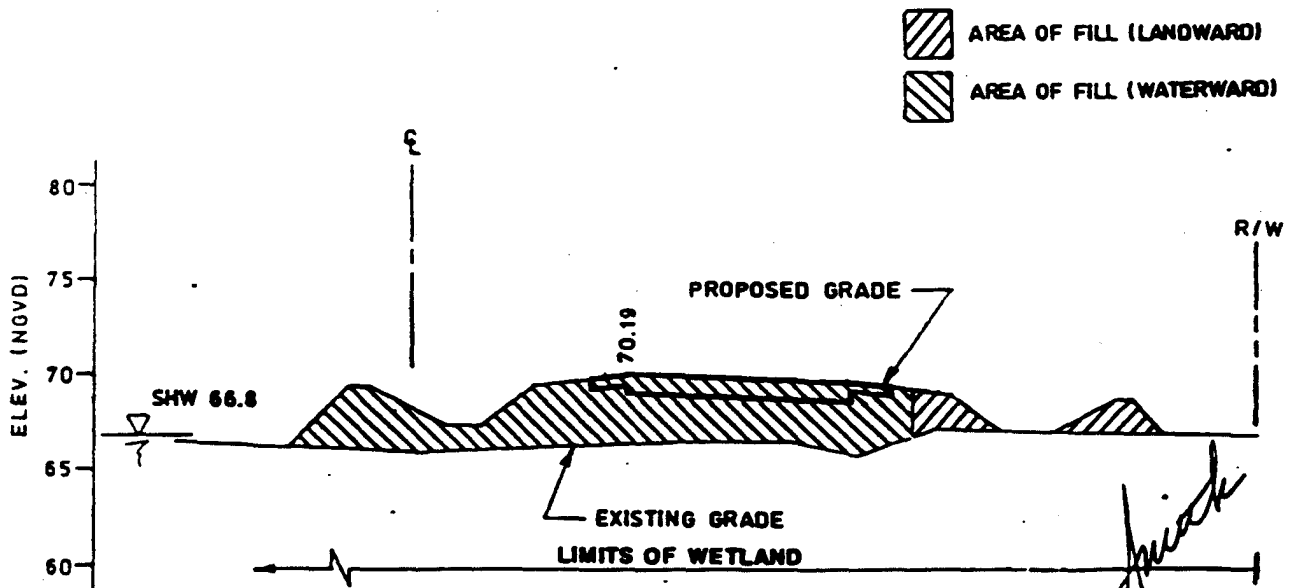
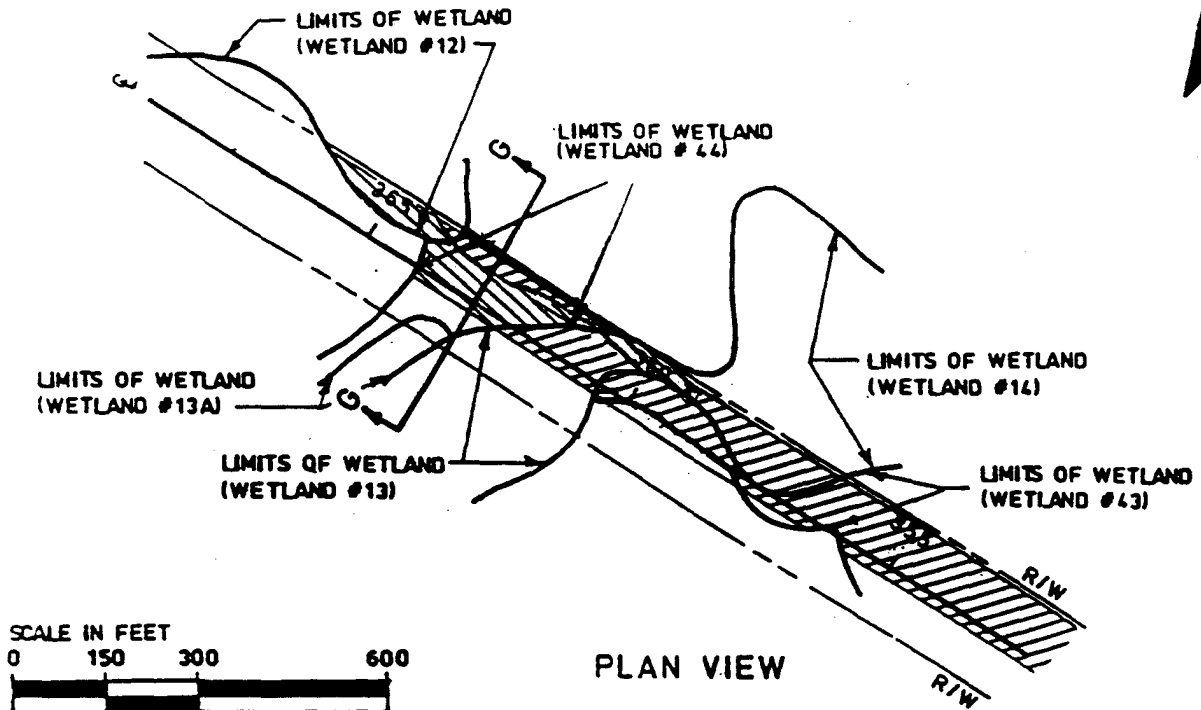
SHEET: 8 OF: 15

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CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 361 + 00

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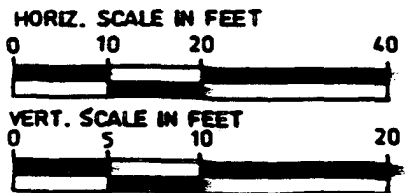
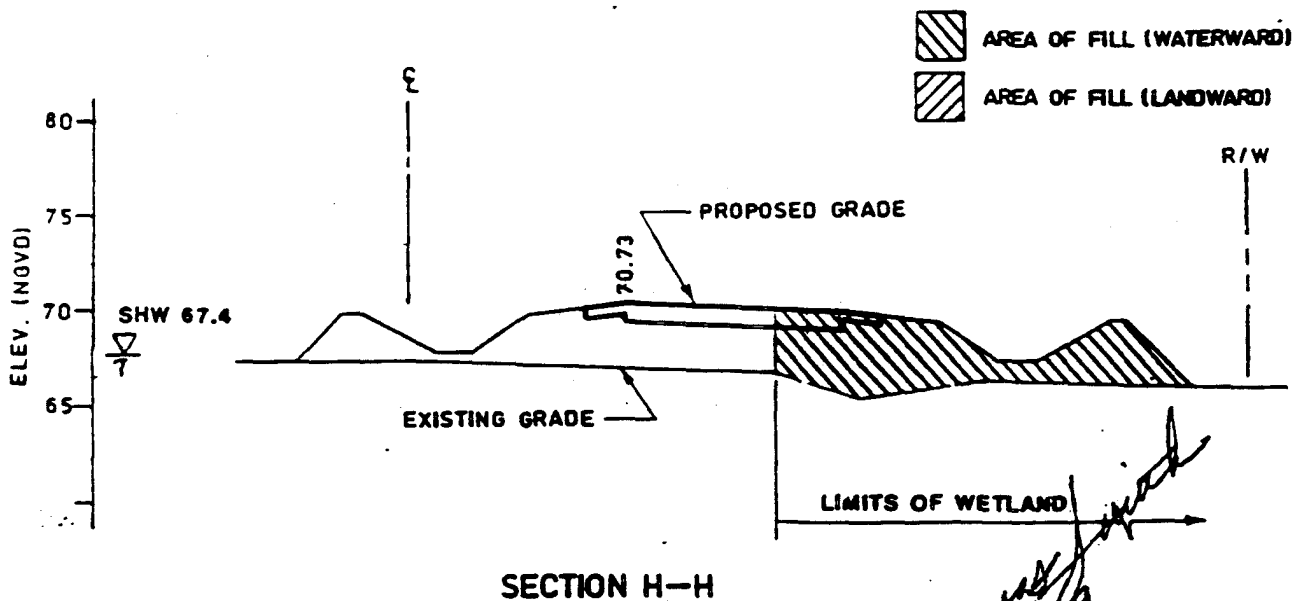
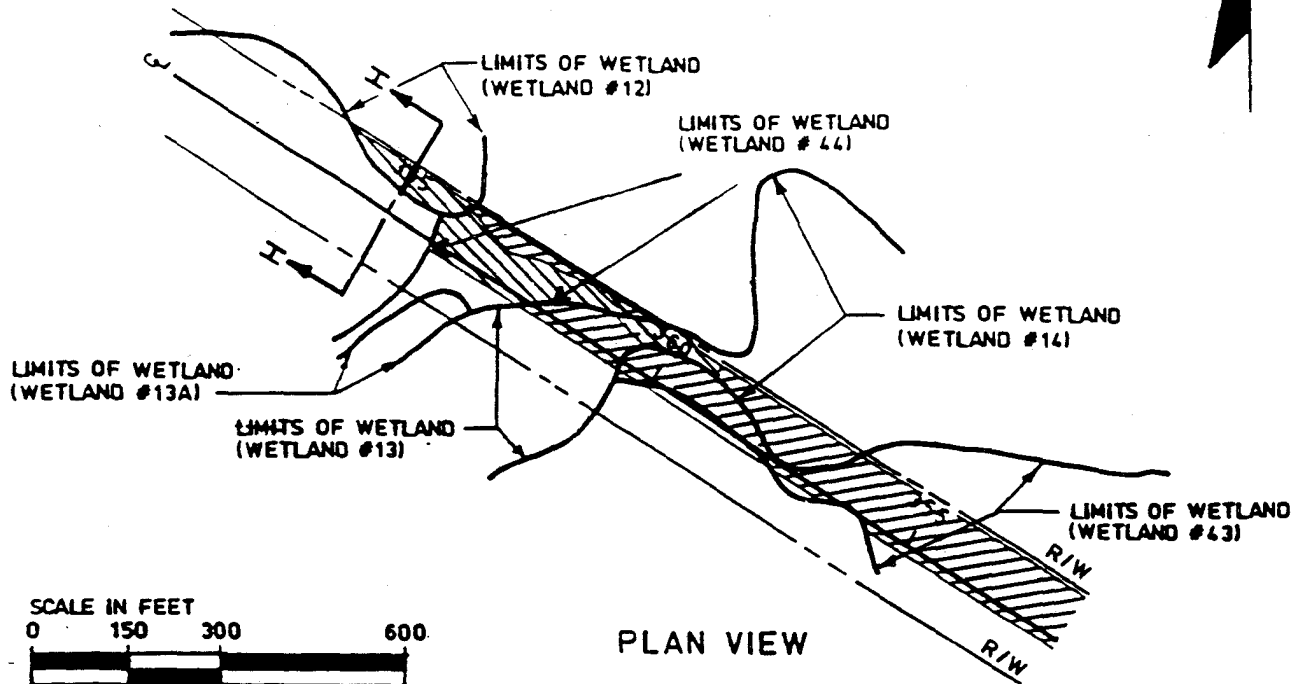
Gregory Thomas
12-20-89

SHEET: 9 OF: 15

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CONSULTING ENGINEERS

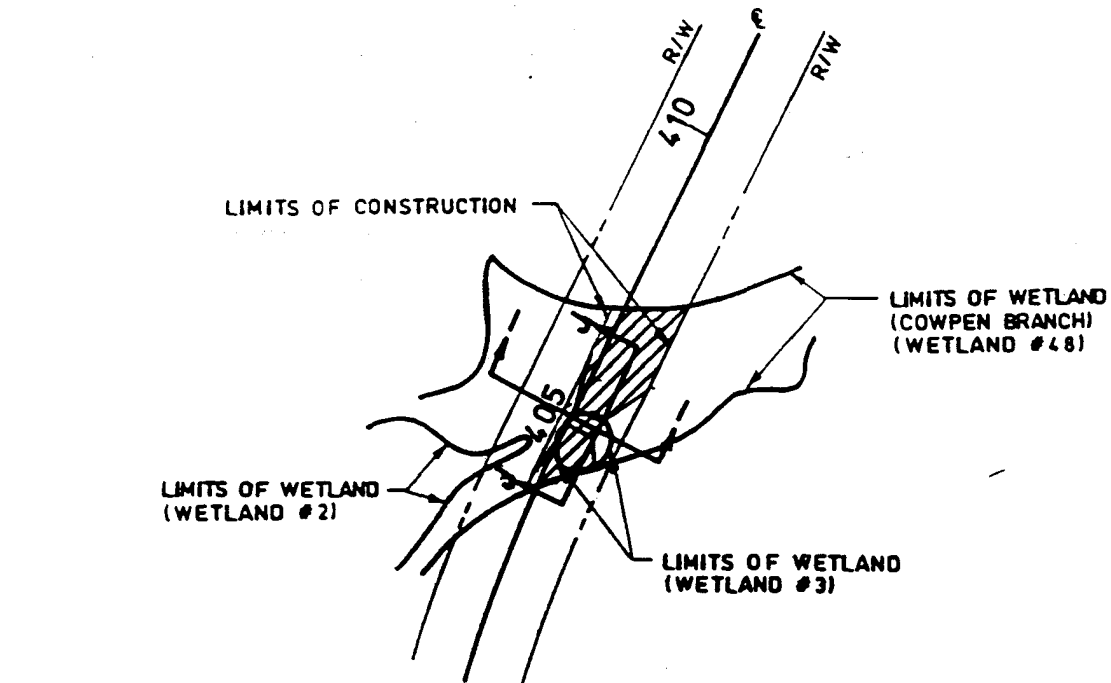
**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 363 + 00
NOVEMBER 1989

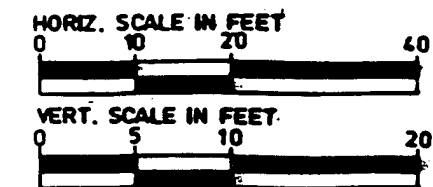
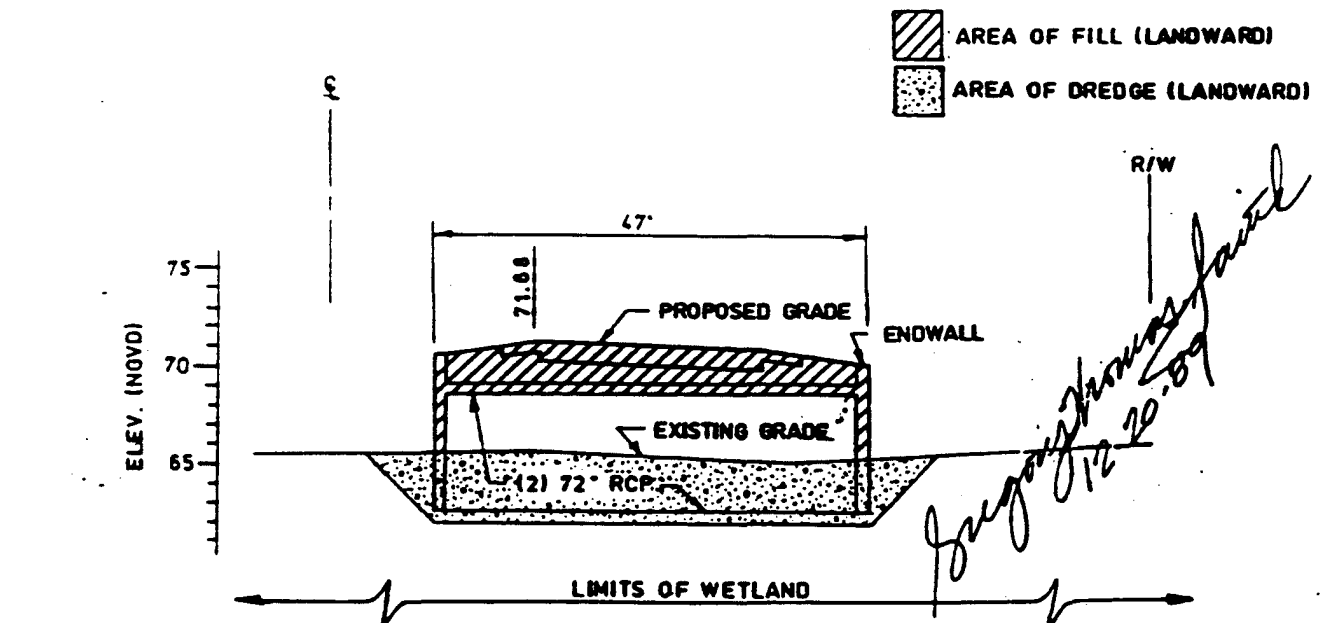


Gregory Thomas
12.20.89

SHEET: 10 OF: 15



PLAN VIEW



SHEET: 11 OF: 15

Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**

ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 405 + 00

29 of 33 NOVEMBER 1989

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CONSULTING ENGINEERS

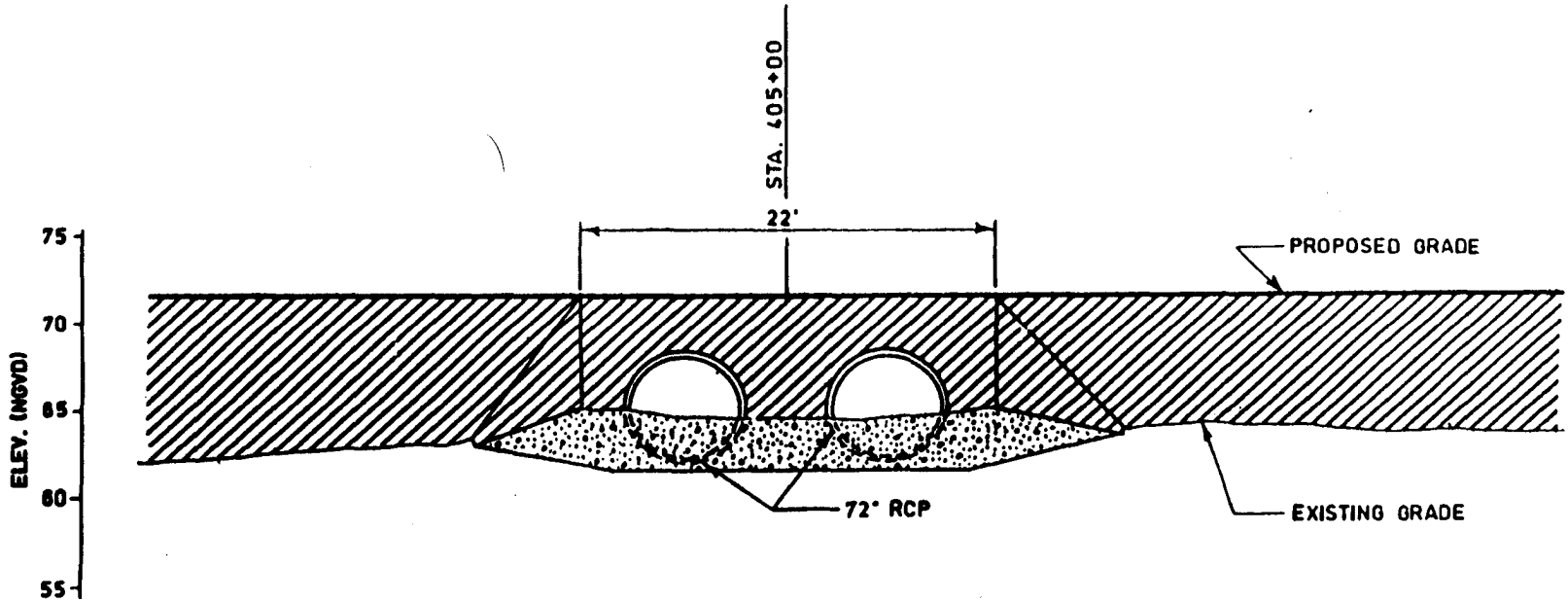
ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

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SECTION J-J

SHEET: 12 OF: 15

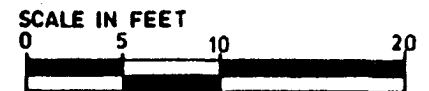
AREA OF FILL (LANDWARD)
AREA OF DREDGE (LANDWARD)

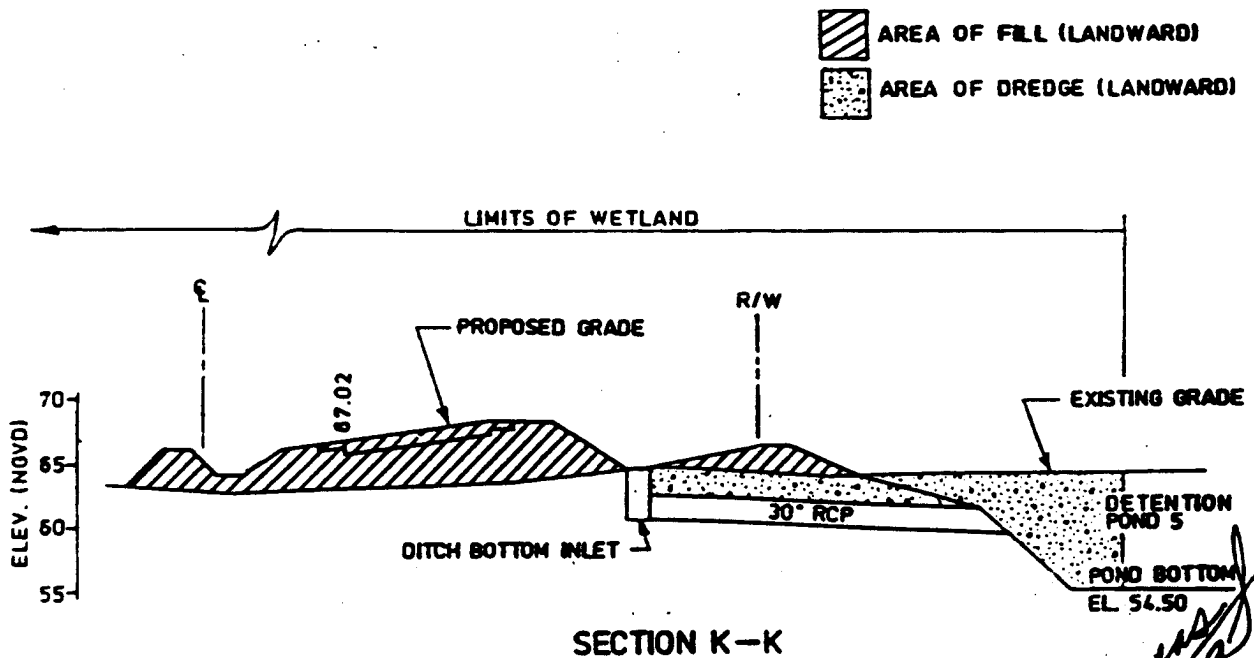
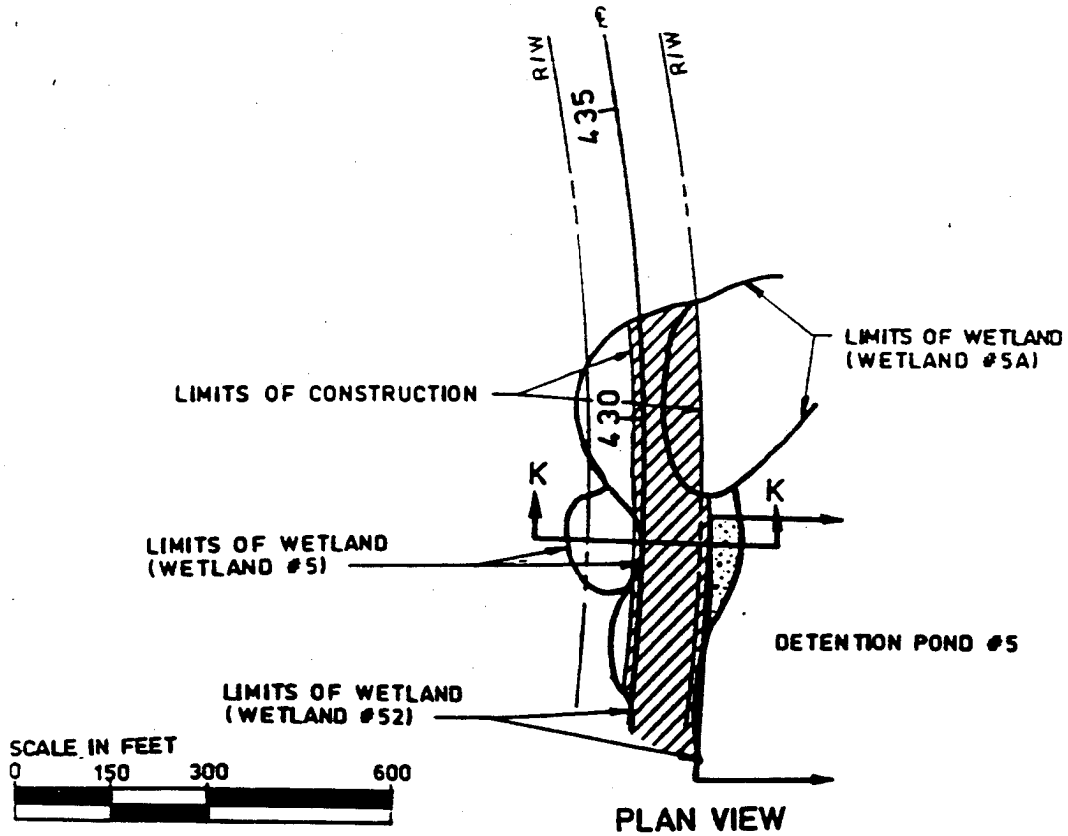


SECTION J-J

NOTE: DREDGED AREA TO BE FILLED TO EXISTING GRADE EXCEPT IN CULVERTS.

LIMITS OF WETLAND





Gregory Thomas Smith
12.20.89

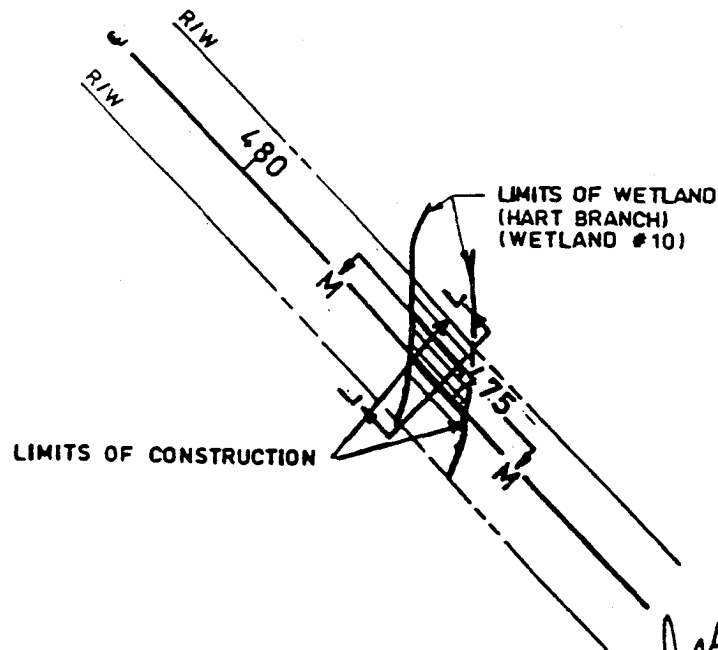
SHEET: 13 OF: 15

Greiner, Inc.
CONSULTING ENGINEERS

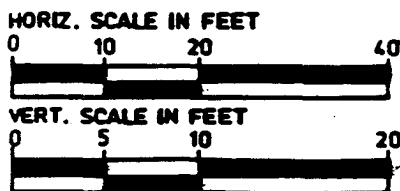
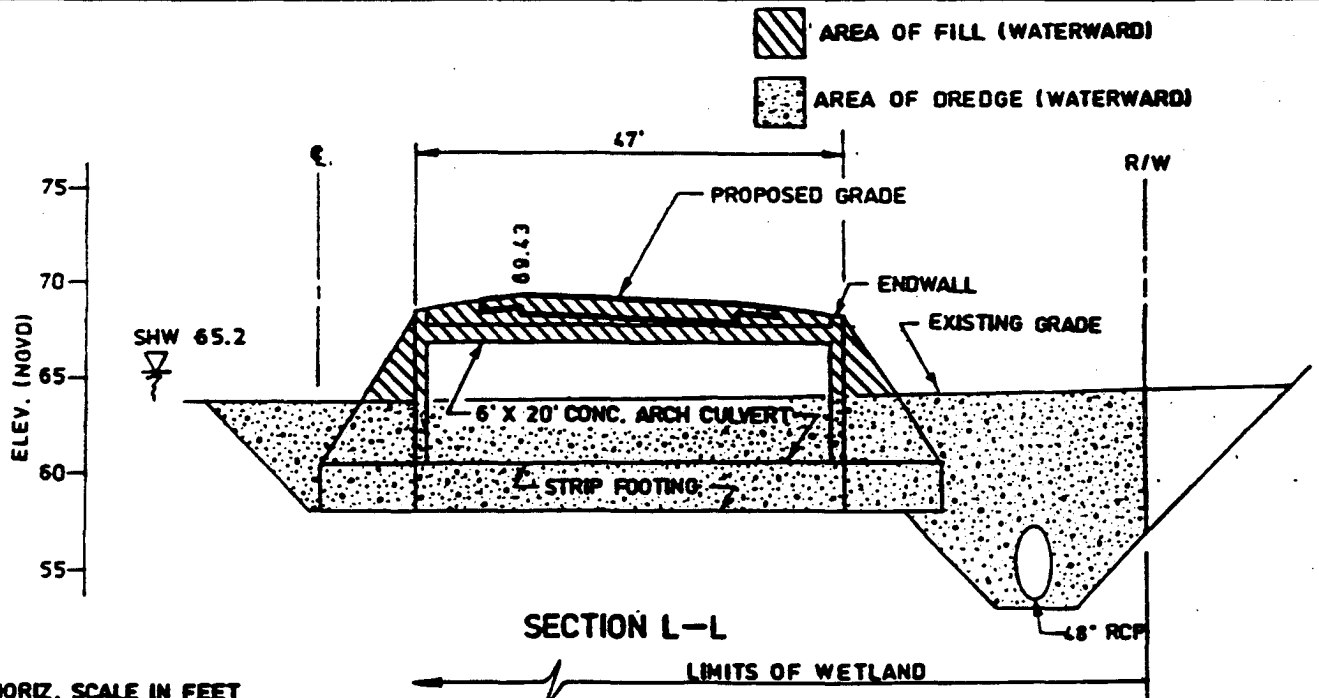
**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA 428 + 00

NOVEMBER 1989



PLAN VIEW



NOTE: DREDGED AREA TO BE FILLED TO EXISTING GRADE EXCEPT UNDER ARCH CULVERT.

SHEET: 14 OF: 15

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CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 475 + 52

NOVEMBER 1989

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CONSULTING ENGINEERS

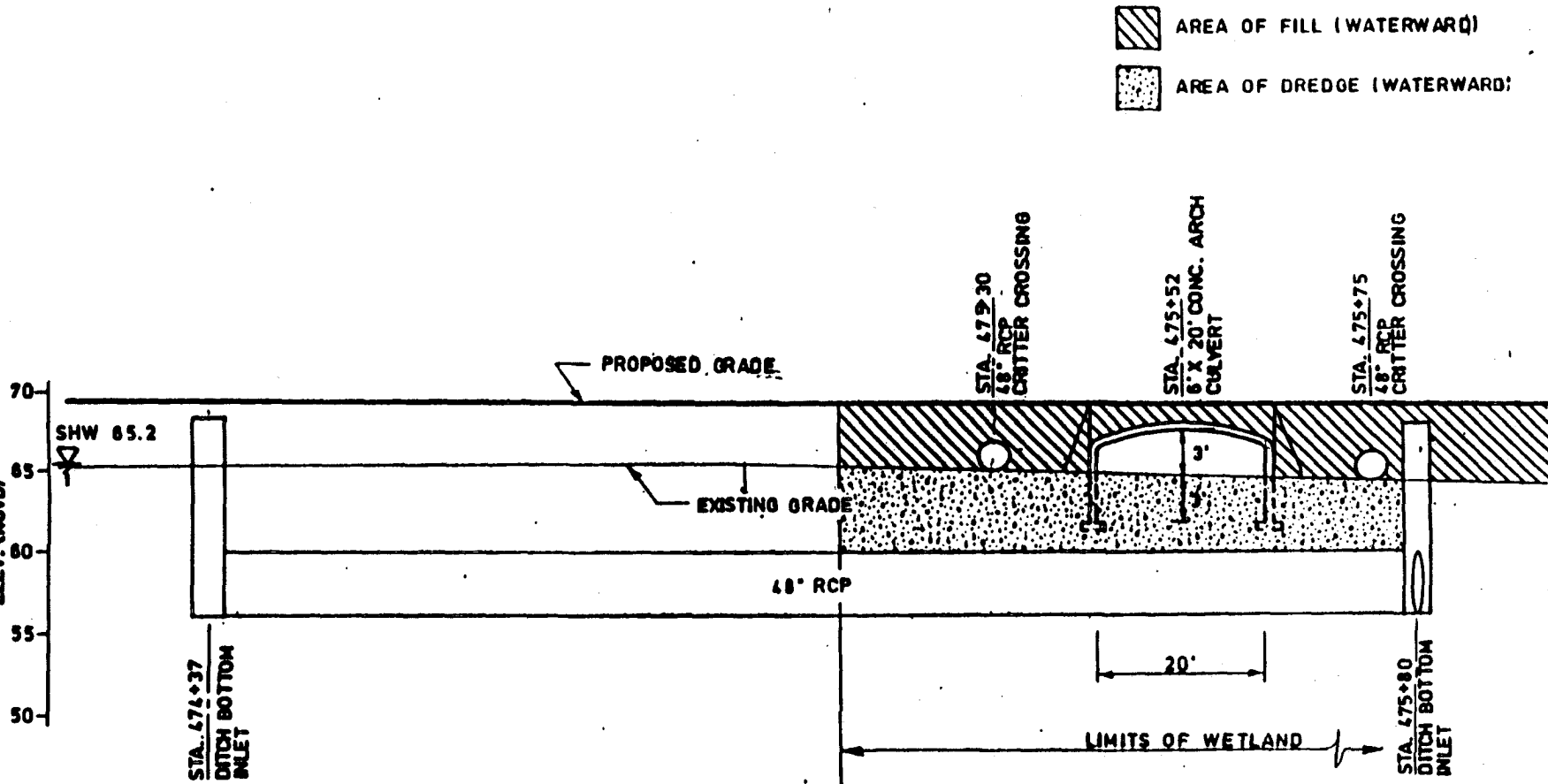
ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

SECTION M-M

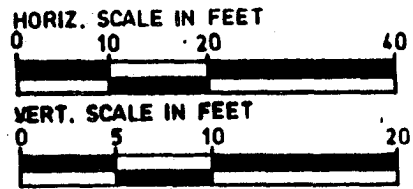
NOVEMBER 1989

ELEV. (MOM)

SHEET: 15 OF 15



Design: 12-20-89



Greiner

Greiner, Inc.
225 East Robinson St., Suite 255
Orlando, Florida 32801-1913
(407) 422-0353

August 8, 1990

C2177.21

Mr. Pat Frost
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
618 E. South Street, Suite 200
Orlando, Florida 32801

Reference: Alafaya Trail Extension
Dredge and Fill Permit Application No. 12-095-0040A

Dear Mr. Frost:

As a condition of its 1987 Development of Regional Impact approval, International Corporate Park (ICP) is required to construct an extension of existing Alafaya Trail south from its current termination at the Orlando Utilities Commission Curtis Stanton Plant (OUC) to 3,000 feet south of the Bee Line Expressway or a distance of 4.2 miles. ICP previously submitted an application for a Dredge & Fill permit (Permit Application No. 12-095-0040A) but was advised by the Florida Department of Environmental Regulations (FDER) that the portion of roadway lying within the geographic boundaries of the OUC Plant site must be permitted under the State of Florida Power Plant Siting Act.

As such, we are submitting a modified permit application which will omit the northern 2.3 miles of the Alafaya Trail project lying within the OUC site. ICP and OUC will address this omitted section at a later date under the modification request to the existing OUC Power Plant siting approval.

This modified application addresses the south 1.9 miles of Alafaya Trail improvements plus mitigation for wetlands impact for the entire 4.2-mile project. Enclosed are two (2) permit application packages for this project. Each package contains the following items:

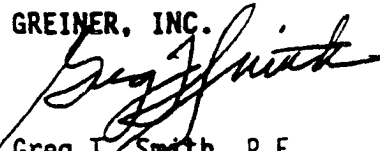
1. A complete joint permit application with seven (7) attachments.
2. Four (4) sets of permit drawings (one set has the original P.E. Certification).
3. Two (2) sets of blue-line aerials (1" = 300') of the entire 4.2-mile project area.

Mr. Pat Frost
August 8, 1990
Page 2

If you should require any additional information or have any questions,
please do not hesitate to contact us.

Sincerely,

GREINER, INC.



Greg T. Smith, P.E.
Project Manager

GTS/tg

Enclosures

cc: Jim Clark, ICP, w/encl.
Ralph Smith, ICP, w/encl.
George Cole, Orange County, w/encl.
Joe Montalto, LEI, w/encl.
Jim Lee Greiner, Inc.
Kathy Hale EMD, w/encl.

/FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION For Activities in the Waters of the State of Florida																																																																																																			
																																																		DER APPLICATION NUMBER (official use only) 1 2 0 9 5 0 0 4 0 A																																																	
1. APPLICANT'S NAME AND ADDRESS I N T E R N A T I O N A L C O R P O R A T E P A R K NAME 9 3 3 L E E R D S U I T E 2 0 0 STREET O R L A N D O CITY F L 3 2 8 1 0 STATE ZIP TELEPHONE NUMBER (Day) (407) 647-4200 (ICP) (Night) ()																																																																																																			
2. Name, address, zip code and title of applicant's authorized agent for permit application coordination Greg T. Smith, P.E. GREINER, INC. 225 E. Robinson St., Suite 255 Orlando, FL 32801-1913 Telephone Number (407) 422-0353																																																																																																			
3. NAME OF WATERWAY AT LOCATION OF THE ACTIVITY. Green Branch																																																																											DER Code- _____ W/W Code _____																								
4. LOCATION WHERE PROPOSED ACTIVITY EXISTS OR WILL OCCUR. <u>See Line Expy-10.5 miles E. of S.R. 436</u> Street, road or other descriptive location <u>N/A</u> Incorporated city or town <u>Orange</u> County <u>29° 32'</u> Section <u>23S</u> Township <u>32E</u> Range <u>28° 27' 30"</u> Latitude <u>81° 08' 15"</u> Longitude Tax Assessors Description: (if known) <u> </u> Map No. <u> </u> Subdiv. No. <u> </u> Lot No.																																																																																																			
5. NAME AND ADDRESS INCLUDING ZIP CODE OF ADJOINING PROPERTY OWNERS WHOSE PROPERTY ALSO ADJOINS THE WATERWAY. See Attachment "A" - Adjoining Property Owners																																																																																																			
6. PROPOSED USE Private Single Dwelling [] Private Multi-dwelling [] Public [XX] Commercial [] Other [] (Explain in remarks)																																																																																																			

7. DESCRIPTION OF PROJECT (Use additional sheets, if necessary)

A. Structures: 1. New work ☒ Maintenance of existing structure ☐2. Piers, docks and uses: Commercial ☐ Private ☐ Public ☐

- a. Single pier ☐ length _____ width _____
- b. Number of piers ☐ length _____ width _____
- c. Number of boat slips ☐ length _____ width _____
- d. Number of finger piers ☐ length _____ width _____
- e. Other (please describe) _____

3. Seawalls, revetments, bulkheads: length _____

- a. Type: Vertical ☐ Riprap ☐ Slope: _____ Horizontal: _____ Vertical
- b. Material to be used _____

4. Other type of structure 6' x 24' arch culvert in Green BranchB. Excavation or Dredging: New Work ☒ Maintenance work ☐ Total acreage involved 0.83 FDER

1. Access Channel ☐ or Canal ☐ Length _____ ft. Width _____ ft. Depth _____ ft.
2. Boat Basin ☐ or Boat Slip ☐ Length _____ ft. Width _____ ft. Depth _____ ft.
3. Other Alafaya Trail Extension Length varies ft. Width varies ft. Depth varies ft.

4. Cubic yards: Total for project 4,889 FDER

- a. 4,889 FDER cyd. waterward/ 0 FDER cyd. landward of ordinary/mean high water
1489 (demucking) 3926 (demucking)
- b. Type of material to be excavated/dredged sand with silt & clayey sand

C. Fill:

1. Amount of material

- | | | |
|---|-----------------|------------------|
| | <u>4,982</u> | FDER |
| a. Cubic yards placed waterward of ordinary/mean high water | <u>1489</u> | (Backfilling) |
| b. Cubic yards placed landward of ordinary/mean high water | <u>45,495</u> | FDER |
| c. Total acreage to be filled | <u>3.7 FDER</u> | (Backfilling) |
| Total acreage of wetlands involved | | <u>3.99 FDER</u> |

2. Containment for fill *Includes 0.29 AC which qualify for a ditch exemption.

- a. Dikes ☐ b. Seawall, etc. ☐ c. Other (please explain) On site
Upland with vegetated slopes

3. Type of fill material to be used clean sand4. Source of fill material to be used Offsite uplandsCOE
Work CodeDER
Code
253
403

8. Date activity is proposed to commence March 1991 ; to be completed March 1992.

9. Previous permits for this project have been DER # _____ Corps # _____

A. Denied (date) _____

B. Issued (date) _____

C. Other (please explain) SJRWMD MSSW Permit Application No. 4-095-0033AM has been revised and resubmitted on 7/25/90.

Differentiate between existing work and proposed work on the drawings.

10. Remarks (See Instruction Pamphlet for additional information required for all applications and certain activities. Use additional sheets if necessary.)

See attachment "B" - Environmental Report

11. AFFIDAVIT OF OWNERSHIP OR CONTROL of the property on which the proposed project is to be undertaken

I CERTIFY THAT: (please check appropriate space)

☒ I am the record owner, lessee, or record easement holder of the property described below.

☐ I am not the record owner, lessee, or record easement holder of the property described below, but I will have before undertaking the proposed work the requisite property interest. (Please explain what the interest will be and how it will be acquired.)

LEGAL DESCRIPTION OF PROPERTY SITUATED IN Orange COUNTY, FLORIDA
(Use additional sheets if necessary)

See Attachment "C"

Sworn and subscribed before me at Orlando County,

Florida, this 30 day of August, 1990.

James L. Clark
Signature Pres.

James G. Rusk
NOTARY PUBLIC

My commission expires: August 11, 1991

12. Application is made for a permit(s) to authorize the activities described herein.

- A. I authorize the agent listed in Item #2 to negotiate modifications or revisions, when necessary, and accept or assent to any stipulations on my behalf.
- B. I understand I may have to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable State Water Quality Standards or other environmental standards both before construction and after the project is completed.
- C. In addition, I agree to provide entry to the project site for inspectors with proper identification or documents as required by law from the environmental agencies for the purpose of making preliminary analyses of the site. Further, I agree to provide entry to the project site for such inspectors to monitor permitted work if a permit is granted.
- D. Further, I hereby acknowledge the obligation and responsibility for obtaining all of the required state, federal or local permits before commencement of construction activities. I also understand that before commencement of this proposed project I must be granted separate permits or authorizations from the U.S. Corps of Engineers; the U.S. Coast Guard, the Department of Environmental Regulation, and the Department of Natural Resources, as necessary.

I CERTIFY that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

EXHIBIT 6.2-8 Page 6 of 66

Signature of Applicant *[Signature]*8.5.90
Date

NOTE: THIS APPLICATION MUST BE SIGNED by the person who desires to undertake the proposed activity or by an authorized agent. If an agent is applying on behalf of the applicant, attach proof of authority for the agent to sign and bind the applicant.

18 U.S.C. Section 1001 provides that: Whoever in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

NOTICE TO PERMIT APPLICANTS

This is a Joint Application; it is NOT a Joint Permit!

You Must Obtain All Required Local, State, and Federal

Authorizations or Permits Before Commencing Work!!

For your information: Section 370.034, Florida Statutes, requires that all dredge and fill equipment owned, used, leased, rented or operated in the state shall be registered with the Department of Natural Resources. Before selecting your contractor or equipment you may wish to determine if this requirement has been met. For further information, contact the Chief of the Bureau of Licenses and Motorboat Registration, Department of Natural Resources, 3900 Commonwealth Boulevard, Tallahassee, Florida 32303. Telephone Number 904/488-1195. THIS IS NOT A REQUIREMENT FOR A PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL REGULATION.

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LIST OF ATTACHMENTS

1. Attachment A - Adjoining Property Owners
2. Attachment B - Environmental Report
3. Attachment C - Legal Description
4. Attachment E - Mitigation Plan
5. Attachment F - Calculated Flow Rates
6. Attachment G - Water Budget
7. Attachment H - ICP letter of intent to provide evidence of financial resources

ATTACHMENT "A"

ADJOINING PROPERTY OWNERS

D.O.C.

State of Florida
Dept. of Corrections
1311 Winewood Blvd.
Tallahassee, FL 32399-2500

Mr. Ned Terry 904/487/1330
Mr. Ralph Kenyon

O.U.C.

Orlando Utilities Commission
P.O. Box 3193
Orlando, FL 32802

Mr. Wendell Dixon 407/423/9100

Deseret Ranches of Florida

Star Route
Box 1250
Melbourne, FL 32904

Mr. John King 407/892/5646

ATTACHMENT "B"
ENVIRONMENTAL REPORT

1. BACKGROUND

On January 8, 1990, a Dredge and Fill Permit Application package was submitted to the St. Johns River Management District (SJRWMD) and the U.S. Corps of Engineers (ACOE) for approval to construct the Alafaya Trail Extension. Due to the Power Plant Certification Act, the Alafaya Trail Extension has been divided into two separate projects, -- the northern extent on Orlando Utilities Commission property (2.3 miles) and the southern extent on Florida Department of Corrections, Deseret Ranch, and International Corporate Park properties (1.9 miles). It is the southern extent for which the dredge and fill permit application (Application No. 12-095-0040A) is being modified. The total mitigation plan, however, is proposed for the whole Alafaya Trail Extension alignment.

International Corporate Park (ICP) plans to build an extension to Alafaya Trail in east Orange County which will consist of 4.2 miles of two-lane roadway improvements and a new bridge structure over the Bee Line Expressway. This modification to the permit application consists of the southern terminus, which is approximately 1.9 miles and crosses over the Bee Line Expressway, and will terminate 3,000 feet south of the Bee Line Expressway.

Construction start date is based on the Development Order approved by Orange County. At the conclusion of this construction, these improvements will be turned over to Orange County in compliance with ICP's Development Order. Entities which will be served by this roadway extension include the Orlando Utilities Commission Curtis H. Stanton Power Plant, the Florida Department of Corrections prison facility and International Corporate Park, a 3,000-acre business/industrial park.

2. PROJECT STATUS

Alafaya Trail Extension is currently under final design with construction anticipated to begin in 1991. Initially, only two lanes of Alafaya Trail will be built at first although at a later date, additional lanes will be added to form a divided four-lane roadway. The future Alafaya Trail/Bee Line Expressway interchange is expected to be constructed in the mid-1990's.

1. The proposed Alafaya Trail Extension alignment was set after an exhaustive study to minimize environmental impacts to wetlands and protected wildlife such as the red-cockaded woodpecker. On May 1, 1989, a Public Hearing concerning this project was held before the Orange County Board of County Commissioners to brief interested parties on the project and to gain the County's initial concurrence of the alignment and typical section before proceeding with the design work. The Commissioners voted unanimously to approve this alignment.

2. It was decided by FDER that the permit package would be divided into northern and southern projects so that permitting on the southern portion could proceed through the normal permitting procedure. As of July 8, 1990, that portion on the OUC site will require a modification to the Power Plant application and will be permitted by FDER.
3. As part of this project, approximately 3.70 acres of FDER jurisdictional wetlands and 10.07 acres of St. Johns River Water Management District jurisdictional wetlands will be affected.
4. This project will require the following quantities of dredge and fill:

	<u>FDER</u>
Waterward dredge	4,889 CY
Landward fill	45,495 CY*
Waterward fill	4,982 CY

- * Quantity includes 36,784 CY of fill material for overpass approach ramp at the Bee Line Expressway.

5. Fill source(s) will be clean, compactible soil material from an upland source.

6. All necessary turbidity and erosion control measures will be implemented during construction to minimize water quality degradation on adjacent wetlands. Visual monitoring for potential turbidity problems will be conducted throughout the construction activities.
7. During construction, all bare ground will be seeded, sodded and/or otherwise appropriately treated to prevent runoff of suspended solids into adjacent water bodies.
8. Attached is Table 1 listing each wetland by agency jurisdiction with the amount of wetland encroachment (by acreage) and the wetland vegetation community affected by the Alafaya Trail Extension located on ICP/DOC and Deseret Ranch properties (southern portion 1.9 miles).
9. Attached is Table 1A which lists each wetland by agency jurisdiction, amount of wetland encroachment (by acreage), and the wetland vegetation community affected by the Alafaya Trail Extension (northern extent on OUC property). This portion of the alignment is not considered part of this permit application. However, the impact to wetlands within the northern extent (OUC property) and the southern extent (ICP/DOC property) will be compensated as part of this application. The application for the northern extent on OUC property will be submitted under the State of Florida Power Plant Siting Act.

TABLE 1

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Southern Extent)
ICP/DOC and Deseret Ranch Properties

Wetland Number ^a	FLUCFCS Category ^b	Project Impact Acreage	Agency Jurisdiction ^c	Cubic Yards of Material ^d
12	621	0.55	SJRWMD	
12	643	0.41	SJRWMD	
13	621	0.56	SJRWMD, FDER	2,820 L.F. 500 W.F.
13	621	0.32	SJRWMD	
14	621	0.50	SJRWMD, FDER	2,518 L.F.
15	621	0.58	SJRWMD	
15	643	0.20	SJRWMD	
16	621	0.87	SJRWMD	
17	643	0.35	SJRWMD	
20*	621	0.21*	SJRWMD, FDER*	
21	621	0.03	SJRWMD	
23B	643	0.16	SJRWMD	
24	621	1.14	SJRWMD, FDER	36,784 L.F.
25 (Green Branch)	621	0.83	SJRWMD, FDER	4,482 W.F. 4,889 W.D.
27*	510	0.03*	FDER*	
28*	510	0.05*	FDER*	
41B	643	0.26	SJRWMD	
42	643	0.08	SJRWMD	
43	643	1.38	SJRWMD	
43	643	0.67	SJRWMD, FDER	3,373 L.F.
44	643	0.97	SJRWMD	

TOTAL IMPACT (AC):

	510	621	643	TOTAL
SJRWMD	--	5.59	4.48	10.07
FDER	--	3.03	0.67	3.70

TABLE 1

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Southern Extent)
ICP/DOC and Deseret Ranch Properties
(Continued)

^aSee Permit Drawings (Sheet 2 of 13) for location of Wetlands

- ^b510 - Drainage ditch (dominant vegetation includes pickerelweed, cattails, primrose willow, pennywort, and beakrush)
- 621 - Cypress (dominant canopy includes cypress)
- 643 - Wet prairie (dominant vegetation includes St. Johns wort, maidencane, cattails, spike rush, bloodroot, and bacopa)

^cSJRWMD= St. Johns River Water Management District

FDER = Florida Department of Environmental Regulation

^dFDER = Cubic Yards (C.Y.) of Material

W.F. = Waterward Fill (4,982 C.Y.)

W.D. = Waterward Dredge (4,889 C.Y.)

L.F. = Landward Fill (45,495 C.Y.)**

* Wetlands which are "waters of the state" but qualify for a ditch block exemption pursuant to Section 403.913(4), F.S.

**Quantity includes 36,784 C.Y. of fill material for overpass approach ramps at Bee Line Expressway.

TABLE 1A

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Northern Extent)
OUC Property

(For information purposes only - This portion
of wetland impacts will be addressed in the Power Plant
Siting Act Permit Application)

Wetland Number	FLUCFCS Category ^a	Project Impact Acreage	Agency Jurisdiction ^b	Cubic Yards of Material ^c
3 (Cowpen Branch)*	621	0.23*	SJRWMD, FDER*	
4	621	0.07	SJRWMD	
5	643	0.05	SJRWMD	
5A	621	0.32	SJRWMD	
7B	621	0.06	SJRWMD	
10 (Hart Branch)	630	0.54	SJRWMD, FDER	3,730 W.F. 892 W.D.
11	621	0.80	SJRWMD	
45	643	0.27	SJRWMD	
46	643	0.15	SJRWMD	
47	643	0.48	SJRWMD	
47	643	2.10	SJRWMD, (Pond 4 Dredge)	
48*	643	0.76*	SJRWMD, FDER*	
49	643	0.41	SJRWMD	
50	643	0.40	SJRWMD	
51	643	0.35	SJRWMD	
52	643	1.47	SJRWMD	
52	643	0.10	SJRWMD, (Pond 5 Dredge)	
53	643	0.97	SJRWMD	
54	643	0.37	SJRWMD	
55	643	0.11	SJRWMD	

TOTAL IMPACT (AC):

	621	630	643	TOTAL
SJRWMD	1.48	0.54	7.99	10.01
FDER	--	0.54	--	0.54

TABLE 1A

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Northern Extent)
OUC Property

(For information purposes only - This portion
of wetland impacts will be addressed in the Power Plant
Siting Act Permit Application)
(CONTINUED)

- ^a510 - Drainage ditch (dominant vegetation includes pickerelweed, cattails, primrose willow, pennywort, and beakrush)
- 621 - Cypress (dominant canopy includes cypress)
- 630 - Mixed hardwood wetland (dominant canopy vegetation includes red maple, black gum, cypress, sweet bay, and red bay)
- 643 - Wet prairie (dominant vegetation includes St. Johns wort, maidencane, cattails, spike rush, bloodroot, and bacopa)

^bSJRWMD= St. Johns River Water Management District
FDER = Florida Department of Environmental Regulation

^cFDER = Cubic Yards (C.Y.) of Material
W.F. = Waterward Fill (3,730 C.Y.)
W.D. = Waterward Dredge (892 C.Y.)

* Wetlands which are "waters of the state" but qualify for a ditch block exemption pursuant to Section 403.913(4), F.S.

ATTACHMENT "C"

LEGAL DESCRIPTIONS

Legal Description: Interchange North of Bee Line

Commence at the Southwest corner of Section 29, Township 23 South, Range 32 East, Orange County, Florida; thence run N.00°04'38"W. along the West line of the Southwest 1/4 of said Section 29 a distance of 64.19 feet to a point on the North right of way line of the Bee Line Expressway (S.R. 528); thence leaving said West line run N.78°29'51"E. along aforementioned North right of way line a distance of 333.58 feet for a POINT OF BEGINNING; said point also being on a curve concave Northwesterly having a radius of 864.93 feet and a central angle of 13°31'01"; thence leaving said Northerly right of way from a tangent bearing of N.58°57'30"E. run Northwesterly along the arc of said curve a distance of 204.05 feet to the point of tangency; thence run N.45°26'30"E. 564.35 feet to the point of curvature of a curve concave Southeasterly having a radius of 640.00 feet and a central angle of 26°02'37"; thence run Easterly along the arc of said curve 290.91 feet to the point of tangency; thence run N.71°29'07"E. 395.54 feet to the point of curvature of a curve concave Northwesterly having a radius of 460.00 feet and a central angle of 67°13'46"; thence run Northerly along the arc of said curve a distance of 539.75 feet to the point of tangency; thence run N.04°15'21"E. 460.03 feet; thence run N.00°26'30"E. 100.00 feet; thence run S.89°33'30"E. 47.20 feet; thence run N.00°26'30"E. 49.94 feet to the point of curvature of a curve concave Southwesterly having a radius of 2,201.83 feet and a central angle of 26°55'05"; thence run Northwesterly along the arc of said curve a distance of 1,034.44 feet; thence leaving said curve run S.61°10'52"W. 1,454.96 feet to the point of curvature of a curve concave Southeasterly having a radius of 910.00 feet and a central angle of 20°36'38"; thence run Southwesterly along the arc of said curve a distance of 327.35 feet to the point of tangency; thence run S.40°34'14"W. 230.78 feet to a point on the aforementioned West line of the Southwest 1/4 of Section 29; thence run N.00°04'38"W. along said West line of the Southwest 1/4 of Section 29 a distance of 276.32 feet; thence leaving said West line run N.40°34'14"E. 21.12 feet to the point of curvature of a curve concave Southeasterly having a radius of 1,090.00 feet and a central angle of 20°36'38"; thence run Northwesterly along the arc of said curve a distance of 392.09 feet to the point of tangency; thence run N.61°10'52"E. 1,454.96 feet to a point on a curve concave Southwesterly having a radius of 2,201.83 feet and a central angle of 26°55'05"; thence from a chord bearing of N.44°37'14"W. run Northwesterly along the arc of said curve a distance of 1,034.44 feet to the point of tangency; thence run N.58°04'47"W. 1,017.85 feet to a point on the West line of the Northwest 1/4 of the aforementioned Section 29; thence run N.00°15'55"E. along said West line of the Northwest 1/4 of Section 29 a distance of 211.46 feet; thence leaving said West line run S.58°04'47"E. 1,128.83 feet to the point of curvature of a curve concave Southwesterly having a radius of 2,381.83 feet and a central angle of 58°31'17"; thence run Southeasterly along the arc of said curve a distance of 2,432.78 feet to the point of tangency; thence run S.89°33'30"E. 50.49 feet; thence run S.01°50'56"E. 541.33 feet to the point of curvature of a curve concave Northeasterly having a radius of 460.00 feet and a central angle of 42°42'34"; thence run Southeasterly along the arc of said curve a distance of 342.89 feet to the point of tangency; thence run S.44°53'34"E. 1,216.48 feet to the point of curvature of a curve concave Northeasterly having a radius of 626.20 feet and a central angle of 45°00'00"; thence run Southeasterly along the arc of said curve a distance of 491.81 feet to the point of tangency; thence run S.89°33'30"E. 909.80 feet to a point on the South line of the aforementioned Section 29; thence run S.89°35'34"W. along the South line of said Section 29 a distance of 2,436.71 feet to a point on the North right of way line of the Bee Line Expressway (S.R. 528); thence leaving said South line of Section 29 run the following courses and distances along said North right of way line: N.78°00'30"W. 1,151.69 feet; thence run S.78°29'51"W. 617.85 feet to the POINT OF BEGINNING.

Containing 71.189 acres, more or less.

LEGAL DESCRIPTION SECTION 32

Begin at the Southwest corner of Section 32, Township 23 South, Range 32 East, Orange County, Florida; thence run N.00°00'48"W. along the West line of the Southwest 1/4 of said Section 32 a distance of 30.00 feet to a point on a curve concave Northwesterly having a radius of 1,875.81 feet and a central angle of 89°21'32"; thence leaving said West line from a tangent bearing of N.89°48'02"E. run Northeasterly along the arc of said curve a distance of 2,925.53 feet to the point of tangency; thence run N.00°26'30"E. 382.18 feet to a point of curvature of a curve concave Southwesterly having a radius of 25.00 feet and a central angle of 90°00'00"; thence run Northwesterly along the arc of said curve a distance of 39.27 feet to the point of tangency; thence run N.89°33'30"W. 116.12 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,339.83 feet and a central angle of 24°42'48"; thence run Northwesterly along the arc of said curve a distance of 1,009.23 feet to the point of tangency; thence run N.64°50'42"W. 815.73 feet to the point of curvature of a curve concave Southwesterly having a radius of 1,225.24 feet and a central angle of 00°52'29"; thence run Northwesterly along the arc of said curve a distance of 18.71 feet to a point on said curve said point also being on the West line of the Southwest 1/4 of said Section 32; thence leaving said curve run N.00°00'48"W. along the West line of the Southwest 1/4 of said Section 32 a distance of 53.07 feet to the West 1/4 corner of said Section 32; thence run N.00°09'42"E. along the West line of the Northwest 1/4 of said Section 32 a distance of 79.47 feet to a point on a curve concave Southwesterly having a radius of 1,347.24 feet and a central angle of 09°27'16"; thence leaving said West line from a tangent bearing of S.68°01'48"E. run Southeasterly along the arc of said curve 222.31 feet to the point of reverse curvature of a curve concave Northeasterly having a radius of 3,000.00 feet and a central angle of 06°16'10"; thence run Southeasterly along the arc of said curve 328.27 feet to the point of tangency; thence run S.64°50'42"E. 230.96 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,243.83 feet and a central angle of 24°42'48"; thence run Southeasterly along the arc of said curve a distance of 967.82 feet to the point of tangency; thence run S.89°33'30"E. 216.07 feet to the point of curvature of a curve concave Northwesterly having a radius of 25.00 feet and a central angle of 90°00'00"; thence run Northeasterly along the arc of said curve a distance of 39.27 feet to the point of tangency; thence run N.00°26'30"E. 689.99 feet; thence run N.89°33'30"W. 47.07 feet; thence run N.00°26'30"E. 100.00 feet; thence run N.01°50'56"W. 626.90 feet to the point of curvature of a curve concave Southwesterly having a radius of 460.00 feet and a central angle of 68°45'11"; thence run

Northwesterly along the arc of said curve a distance of 551.9 feet to the point of tangency; thence run N.70°36'07"W. 400.84 feet to the point of curvature of a curve concave Northeasterly having a radius of 640.00 feet and a central angle of 26°02'37"; thence run Northwesterly along the arc of said curve a distance of 290.91 feet to the point of tangency; thence run N.44°33'30"W. 353.36 feet to the point of curvature of a curve concave Southwesterly having a radius of 1,342.40 feet and a central angle of 25°23'15"; thence run Northwesterly along the arc of said curve a distance of 594.81 feet to a point on said curve and on the South right of way line of the Bee Line Expressway (S.R. 528); thence leaving said curve run the following courses and distance along said South right of way line; thence run S.77°36'51"E. 811.60 feet; thence run N.78°29'51"E. 1,328.77 feet; thence run S.89°33'30"E. 5,430.32 feet; thence leaving said right of way line run S.89°17'45"W. 1,718.43 feet to the point of curvature of a curve concave Southeasterly having a radius of 5,639.58 feet and a central angle of 03°06'15"; thence run Southwesterly along the arc of said curve a distance of 305.55 feet to the point of reverse curvature of a curve concave Northwesterly having a radius of 11,549.16 feet and a central angle of 04°15'00"; thence run Southwesterly along the arc of said curve a distance of 856.68 feet to the point of tangency; thence run N.89°33'30"W. 1,265.00 feet to the point of curvature of a curve concave Southeasterly having a radius of 460.00 feet and a central angle of 45°00'00"; thence run Southwesterly along the arc of said curve a distance of 361.28 feet to the point of tangency; thence run S.45°26'30"W. 1,285.30 feet to the point of curvature of a curve concave Southeasterly having a radius of 460.00 feet and a central angle of 41°11'09"; thence run Southwesterly along the arc of said curve a distance of 330.66 feet to the point of tangency; thence run S.04°15'21"W. 460.03 feet; thence run S.00°26'30"W. 100.00 feet; thence run N.89°33'30"W. 47.20 feet; thence run S.00°26'30"W. 1,384.63 feet to the point of curvature of a curve concave Northwesterly having a radius of 2,055.81 feet and a central angle of 89°20'10"; thence run Southwesterly along the arc of said curve a distance of 3,205.44 feet to a point on said curve, said point also being on the West line of the Northwest 1/4 of Section 5, Township 24 South, Range 32 East Orange County, Florida; thence run N.00°32'51"W. along said West line a distance of 150.00 feet to the POINT OF BEGINNING;

Together with

Begin at the Northwest corner of Section 33, Township 23 South, Range 32 East, Orange County, Florida; thence run S.89°03'58"E. along the North line of the Northwest 1/4 of said Section 33 a distance of 1,405.12 feet; thence leaving said North line run S.00°26'30"W. 80.35 feet to the North right of way line of the Bee Line Expressway (S.R. 528); thence run the following courses and distances along said North right of way line; thence run N.89°33'30"W. 4,480.51 feet; thence run N.00°26'30"E. 9.33 feet; thence run N.78°00'30"W. 175.03 feet to a point on the North line of Section 32, Township 23 South, Range 32 East, Orange County, Florida; thence run N.89°35'38"E. along said North line a distance of 3,247.19 feet to the POINT OF BEGINNING.

Containing 87.405 acres, more or less.

LEGAL DESCRIPTION SECTION 30

Right of Way description (180 foot wide) Alafaya Trail Extension situate in the Northeast 1/4 of Section 30, Township 23 South, Range 32 East, Orange County, Florida; being more particularly bounded and described as follows:

Commence at the Northeast corner of Section 30, Township 23 South, Range 32 East, Orange County, Florida; thence run S.00 15'55"W. along the East line of the Northeast 1/4 of said Section 30 a distance of 742.18 feet for a POINT OF BEGINNING; thence continue S.00 15'55"W. along said East line a distance of 211.46 feet; thence leaving said line run N.58 04'47"W. 1,027.60 feet to the point of curvature of a curve concave Northeasterly having a radius of 2,173.48 feet and a central angle of 16 39'34"; thence run Northwesterly along the arc of said curve 631.97 feet to a point on the North line of the Northeast 1/4 of said Section 30; thence leaving said curve run N.89 51'23"E. along said North line of Section 30 a distance of 248.49 feet to a point on a curve concave Northeasterly having a radius of 1,993.48 feet and a central angle of 11 56'34"; thence from a tangent bearing of S.46 08'13"E. run Southeasterly along the arc of said curve 415.52 feet to the point of tangency; thence run S.58 04'47"E. 916.63 feet to the POINT OF BEGINNING.

ATTACHMENT "E"

MITIGATION PLAN
FOR THE
ALAFAYA TRAIL EXTENSION

SUBMITTED TO:
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

SUBMITTED THROUGH:
MR. JAMES L. CLARK
INTERNATIONAL CORPORATE PARK (ICP)
933 LEE ROAD
SUITE 200
ORLANDO, FLORIDA 32810

SUBMITTED BY:
GREINER, INC.

REVISED AUGUST 6, 1990

MITIGATION PLAN
ALAFAYA TRAIL EXTENSION

1.0 INTRODUCTION**1.1 Background**

On January 8, 1990, a Dredge and Fill Permit Application package was submitted to the St. Johns River Management District (SJRWMD) and the U.S. Corps of Engineers (ACOE) for approval to construct the Alafaya Trail Extension. Due to the Power Plant Certification Act, the application has been divided into two separate projects, -- the northern extent on Orlando Utilities Commission property (2.3 miles) and the southern extent on Florida Department of Corrections, International Corporate Park, and Deseret Ranch properties (1.9 miles). It is the southern extent for which the dredge and fill permit application (Application No. 12-095-0040A) is being modified. The total mitigation plan, however, is proposed for the whole Alafaya Trail Extension alignment.

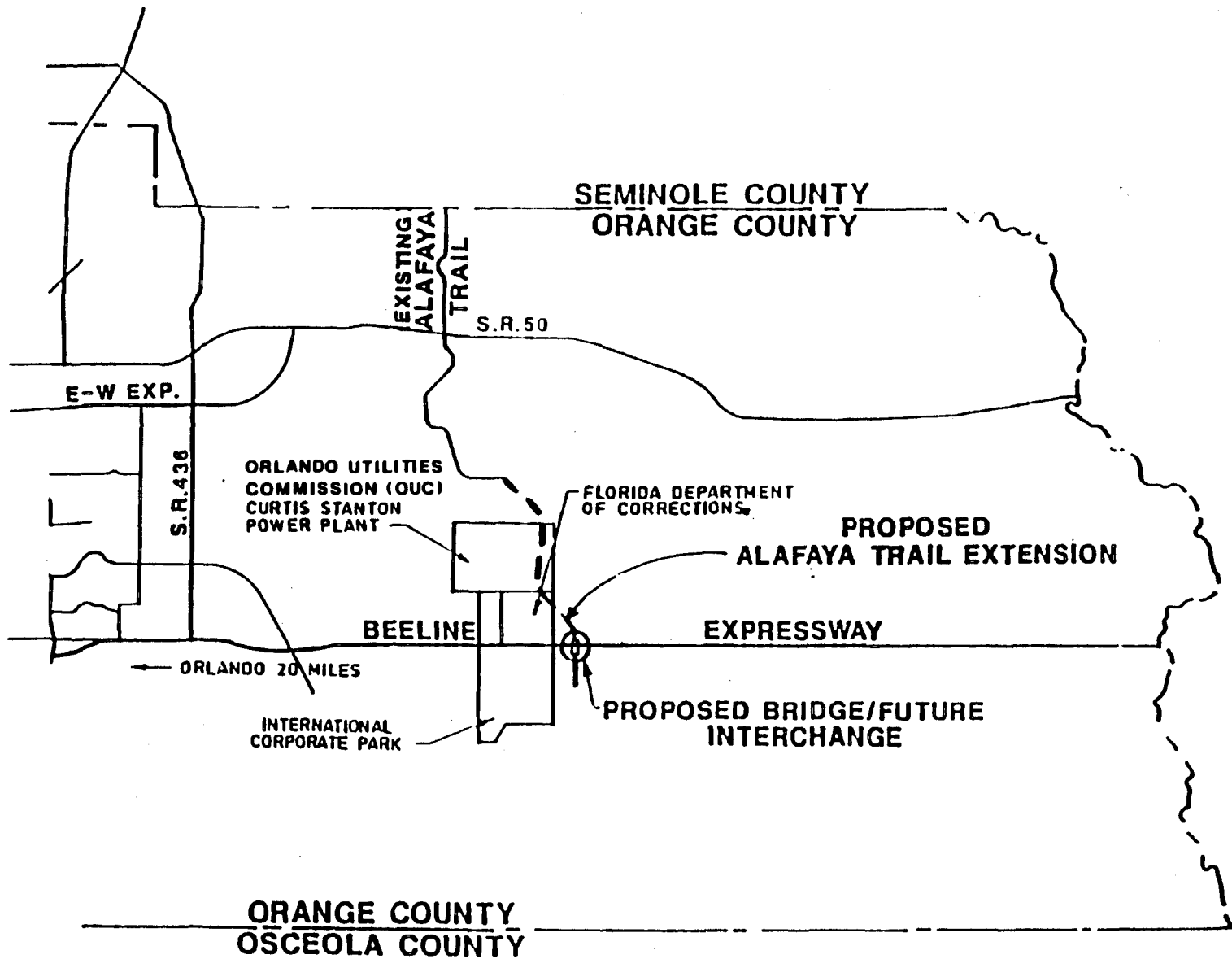
International Corporate Park (ICP) plans to build an extension to Alafaya Trail in east Orange County which will consist of 4.2 miles of two-lane roadway improvements and a new bridge structure over the Bee Line Expressway. This modification to the permit application consists of the southern terminus, which is approximately 1.9 miles and crosses over the Bee Line Expressway, and will terminate 3,000 feet south of the Bee Line Expressway.

1.2 Scope of Work

The planning phase of the Alafaya Trail Extension project provided every effort to avoid and minimize adverse impacts to wetlands and their functions. For this application it has been determined that there are 10.07 acres of SJRWMD's jurisdictional wetlands and 3.70 acres of Florida Department of Environmental Regulation's (FDER) jurisdictional wetlands which will be impacted by this project (southern terminus). To compensate for the unavoidable environmental impact to these wetlands and wetlands impacted by the northern portion which will be permitted under the Power Plant Certification Act, these projects (including the northern extent and the southern terminus) propose to create 1.23 acres of a hardwood wetland community, 9.29 acres of cypress wetlands, 12.76 acres of freshwater marsh, 17.96 acres of restoration/enhancement to existing wetland communities, retain a 2.18-acre 50-foot upland buffer, and the permanent preservation of these systems.

2.0 GENERAL SITE DESCRIPTION OF THE PROJECT AREA

The project areas begin 3,000 feet south of the Bee Line Expressway and extend north 4.2 miles to adjoin the southern terminus of the existing Alafaya Trail in Sections 18, 19, 29, 30, and 32, Township 23S, Range 32E, Orange County, Florida (see Figures 1 and 2).



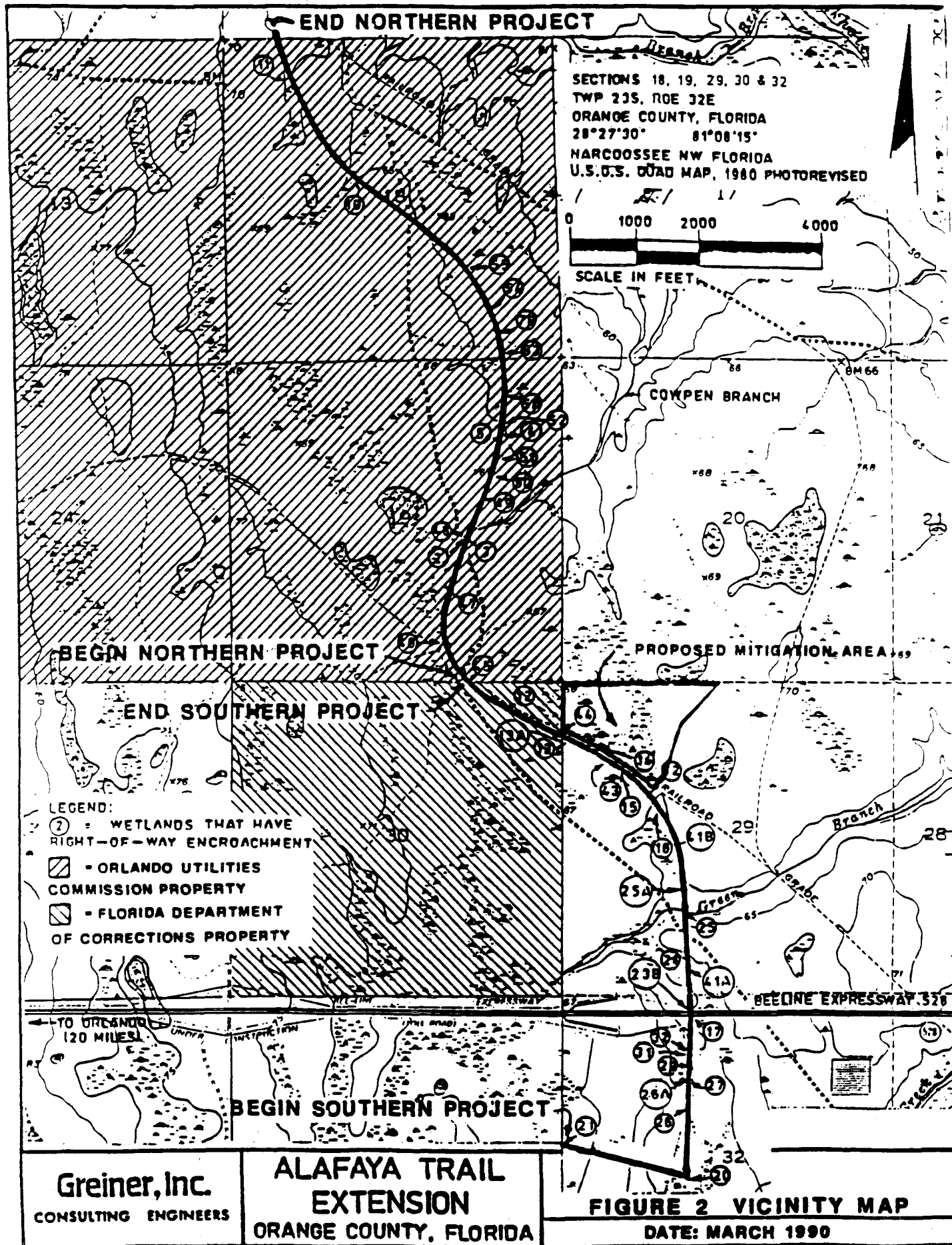
Greiner, Inc.
CONSULTING ENGINEERS

ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

FIGURE 1 VICINITY MAP

DATE: MARCH 1990

REVISED: JULY 1990



2.1 Wetland Communities

Table 1 identifies each wetland by agency jurisdiction (southern extent) along with the amount of wetland encroachment of the project (by acreage) and the wetland vegetation community (using the Florida Land Use, Cover and Forms Classification System - FLUCFCS). Green Branch (Wetland No. 25) will be crossed by the project. This system collects surrounding surface waters and drains them northeast to the Econlockhatchee River.

Attached is Table 1A which lists each wetland by agency jurisdiction, amount of wetland encroachment (by acreage), and the wetland vegetation community affected by the Alafaya Trail Extension (northern extent on OUC property). The northern portion of the alignment located on OUC property is not considered part of this permit application. However, the impacts to wetlands within the northern extent (OUC property) and the southern extent (ICP/DOC and Deseret Ranch properties) will be compensated in this mitigation plan. The permit application for the northern extent on OUC property will be submitted under the State of Florida Power Plant Siting Act.

The wetlands that exist in the project site are small isolated wetlands as well as larger wetland systems within the surrounding area. Wetland categories include drainage ditches (510), cypress (621), mixed hardwood forests (630), and wet prairies (643).

Plant species found in the man-made upland ditches (510) include pickerelweed (Pontederia cordata), cattails (Typha sp.), primrose willow (Ludwigia sp.), beakrush (Rhynchospora corniculata), softrush (Juncus effusus), and pennywort (Hydrocotyle sp.).

Vegetation associated with cypress wetlands (621) include primarily pond cypress (Taxodium ascendens) with some black gum (Nyssa sylvatica var. biflora) and red maple (Acer rubrum). Isolated pockets of submerged herbaceous vegetation, including pickerelweed and swamp fern (Blechnum serrulatum) are present within the cypress areas.

Vegetation within the mixed hardwood wetlands (630) include red maple, black gum, cypress, sweet gum, (Liquidambar styraciflua), red bay (Persea borbonia), and wax myrtle (Myrica cerifera). Yellow eyed grass (Xyris sp.), swamp fern, cinnamon fern (Osmunda cinnamomea), and maidencane are present as ground cover.

Vegetation associated with the wet prairies (643) include cattails, maidencane (Panicum hemitomon), spike rush (Eleocharis sp.), St. Johns wort (Hypericum sp.), bloodroot (Lachnanthes caroliniana), and bacopa (Bacopa caroliniana).

2.2 Soils

There are three soil types found within the project site. They are mapped as Rutledge fine sand (Ra), Plummer fine sand (Pb), and Leon fine sand (Lf). The site is characterized by broad strips of better drained Leon

TABLE 1

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Southern Extent)
ICP/DOC and Deseret Ranch Properties

Wetland Number ^a	FLUCFCS Category ^b	Project Impact Acreage	Agency Jurisdiction ^c	Cubic Yards of Material ^d
12	621	0.55	SJRWMD	
12	643	0.41	SJRWMD	
13	621	0.56	SJRWMD, FDER	2,820 L.F. 500 W.F.
13	621	0.32	SJRWMD	
14	621	0.50	SJRWMD, FDER	2,518 L.F.
15	621	0.58	SJRWMD	
15	643	0.20	SJRWMD	
16	621	0.87	SJRWMD	
17	643	0.35	SJRWMD	
20*	621	0.21*	SJRWMD, FDER*	
21	621	0.03	SJRWMD	
23B	643	0.16	SJRWMD	
24	621	1.14	SJRWMD, FDER	36,784 L.F.
25 (Green Branch)	621	0.83	SJRWMD, FDER	4,482 W.F. 4,889 W.D.
27*	510	0.03*	FDER*	
28*	510	0.05*	FDER*	
41B	643	0.26	SJRWMD	
42	643	0.08	SJRWMD	
43	643	1.38	SJRWMD	
43	643	0.67	SJRWMD, FDER	3,373 L.F.
44	643	0.97	SJRWMD	

TOTAL IMPACT (AC):

	510	621	643	TOTAL
SJRWMD	--	5.59	4.48	10.07
FDER	--	3.03	0.67	3.70

TABLE 1

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Southern Extent)
ICP/DOC and Deseret Ranch Properties
(CONTINUED)

^aSee Figure 2 for location of Wetlands

- ^b510 - Drainage ditch (dominant vegetation includes pickerelweed, cattails, primrose willow, pennywort, and beakrush)
621 - Cypress (dominant canopy includes cypress)
643 - Wet prairie (dominant vegetation includes St. Johns wort, maidencane, cattails, spike rush, bloodroot, and bacopa)

^cSJRWMD= St. Johns River Water Management District
FDER = Florida Department of Environmental Regulation

^dFDER = Cubic Yards (C.Y.) of Material
W.F. = Waterward Fill (4,982 C.Y.)
W.D. = Waterward Dredge (4,889 C.Y.)
L.F. = Landward Fill (45,495 C.Y.)**

* Wetlands which are "waters of the state" but qualify for a ditch block exemption pursuant to Section 403.913(4), F.S.

**Quantity includes 36,784 C.Y. of fill material for overpass approach ramp at Bee Line Expressway.

TABLE 1A

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
 (Northern Extent)
 OUC Property

(For information purposes only - This portion
 of wetland impacts will be addressed in the Power Plant
 Siting Act Permit Application)

Wetland Number ^a	FLUCFCS Category ^b	Project Impact Acreage	Agency Jurisdiction ^c	Cubic Yards of Material ^d
3 (Cowpen Branch)*	621	0.23*	SJRWMD, FDER*	
4	621	0.07	SJRWMD	
5	643	0.05	SJRWMD	
5A	621	0.32	SJRWMD	
7B	621	0.06	SJRWMD	
10 (Hart Branch)	630	0.54	SJRWMD, FDER	3,730 W.F. 892 W.D.
11	621	0.80	SJRWMD	
45	643	0.27	SJRWMD	
46	643	0.15	SJRWMD	
47	643	0.48	SJRWMD	
47	643	2.10	SJRWMD, (Pond 4 Dredge)	
48*	643	0.76*	SJRWMD, FDER*	
49	643	0.41	SJRWMD	
50	643	0.40	SJRWMD	
51	643	0.35	SJRWMD	
52	643	1.47	SJRWMD	
52	643	0.10	SJRWMD, (Pond 5 Dredge)	
53	643	0.97	SJRWMD	
54	643	0.37	SJRWMD	
55	643	0.11	SJRWMD	

TOTAL IMPACT (AC):

	621	630	643	TOTAL
SJRWMD	1.48	0.54	7.99	10.01
FDER	--	0.54	--	0.54

70.1 1-15.6

TABLE 1A

ALAFAYA TRAIL JURISDICTIONAL WETLANDS
(Northern Extent)
OUC Property

(For information purposes only - This portion
of wetland impacts will be addressed in the Power Plant
Siting Act Permit Application)
(CONTINUED)

^aSee Figure 2 for location of Wetlands

- ^b510 - Drainage ditch (dominant vegetatin includes pickerelweed, cattails, primrose willow, pennywort, and beakrush)
- 621 - Cypress (dominant canopy includes cypress)
- 630 - Mixed hardwood wetland (dominant canopy vegetation includes red maple, black gum, cypress, sweet bay, and red bay)
- 643 - Wet prairie (dominant vegetation includes St. Johns wort, maidencane, cattails, spike rush, bloodroot, and bacopa)

^cSJRWMD= St. Johns River Water Management District
FDER = Florida Department of Environmental Regulation

^dFDER = Cubic Yards (C.Y.) of Material
W.F. = Waterward Fill (3,730 C.Y.)
W.D. = Waterward Dredge (892 C.Y.)

* Wetlands which are "waters of the state" but qualify for a ditch block exemption pursuant to Section 403.913(4), F.S.

fine sand paralleled by narrow convoluted strips of poorly drained Plummer fine sand and Rutledge fine sand soils. Of these, Plummer fine sand and Rutledge fine sand have characteristics of being inundated or saturated on an average of 30 consecutive days or more per year, according to the USDA Soil Conservation Service. These soils indicate that the area is flat with little slope for runoff. Hydric soils typically support wetland vegetation that corresponds to the St. Johns River Water Management District and Florida Department of Environmental Regulation's Index List (Chapter 17-3.022, F.A.C., and Rule 40C-4, Florida Statutes). Plummer fine sand and Rutledge fine sand are considered hydric soils unless altered by drainage or drought conditions.

2.3 Topography

Elevations on the site vary from 60 feet above sea level in the southern portion, south of the Bee Line Expressway, to 68 feet along the western half of the site. The three branches provide drainage of surface water from the project site, consisting of pine flatwoods and wet prairies, northeast toward the Econlockhatchee River. There are numerous shallow depressions or isolated cypress wetlands that are scattered throughout the area. Several of these shallow depressions temporarily retain surface water and spill over into the next depression forming an intermittent chain of wetlands during storm events. Many of these systems have been ditched around their perimeters to permanently eliminate saturated ground conditions.

3.0 WETLANDS MITIGATION PLAN

3.1 Proposed Impact To Wetlands

The mitigation plan compensates for the loss of approximately 20.08 acres of SJRWMD jurisdictional wetlands and 4.24 acres of FDER jurisdictional wetlands that will be affected by the entire alignment of both the northern section and southern sections of Alafaya Trail Extension (4.2 miles). Approximately 10.07 acres of SJRWMD jurisdictional wetlands and 3.07 acres of FDER jurisdictional wetlands (Table 1) will be affected by the southern alignment (1.9 miles).

The three branches will be culverted by either appropriately sized pipes or concrete arched culvert which are adequately sized to meet flow conditions for storm events. The arch concrete culverts at Green and Hart Branches have been oversized in order to span the main channel of each branch. This will not change the hydroperiod or drainage practices of Green Branch and Hart Branch.

3.2 Mitigation Site

The mitigation site is located within and adjacent to a portion of the proposed Alafaya Trail Extension right-of-way in the northwest corner of Section 29, Township 23S, Range 32E, Orange County, Florida (see Figure 2).

Existing topographic elevations of the proposed mitigation site average between 62 and 65 feet mean sea level. The mitigation site encompasses approximately 50 acres of uplands and wetlands of which 17.96 acres of altered wetlands exist as isolated cypress systems or wetlands connected off-site. Several drainage ditches have been historically constructed to drain existing wetlands and along on old railroad bed. Upland areas consist as palmetto prairies with a few scattered pines.

3.3 Wetlands Mitigation Plan

The wetlands mitigation plan includes the construction conversion of upland areas into a mixed hardwood wetland (1.23 acres), cypress (9.29 acres), and marshes (12.76 acres); restoration/enhancement of existing wetland communities (17.96 acres); and the preservation of an upland buffer (2.18 acres) as shown on Figures 3 and 4. In the center of the mitigation area will be a 3.00-acre bermed stormwater detention pond which will have a 0.91-acre littoral shelf. A 4.0-acre borrow site will also be located adjacent to the detention pond.

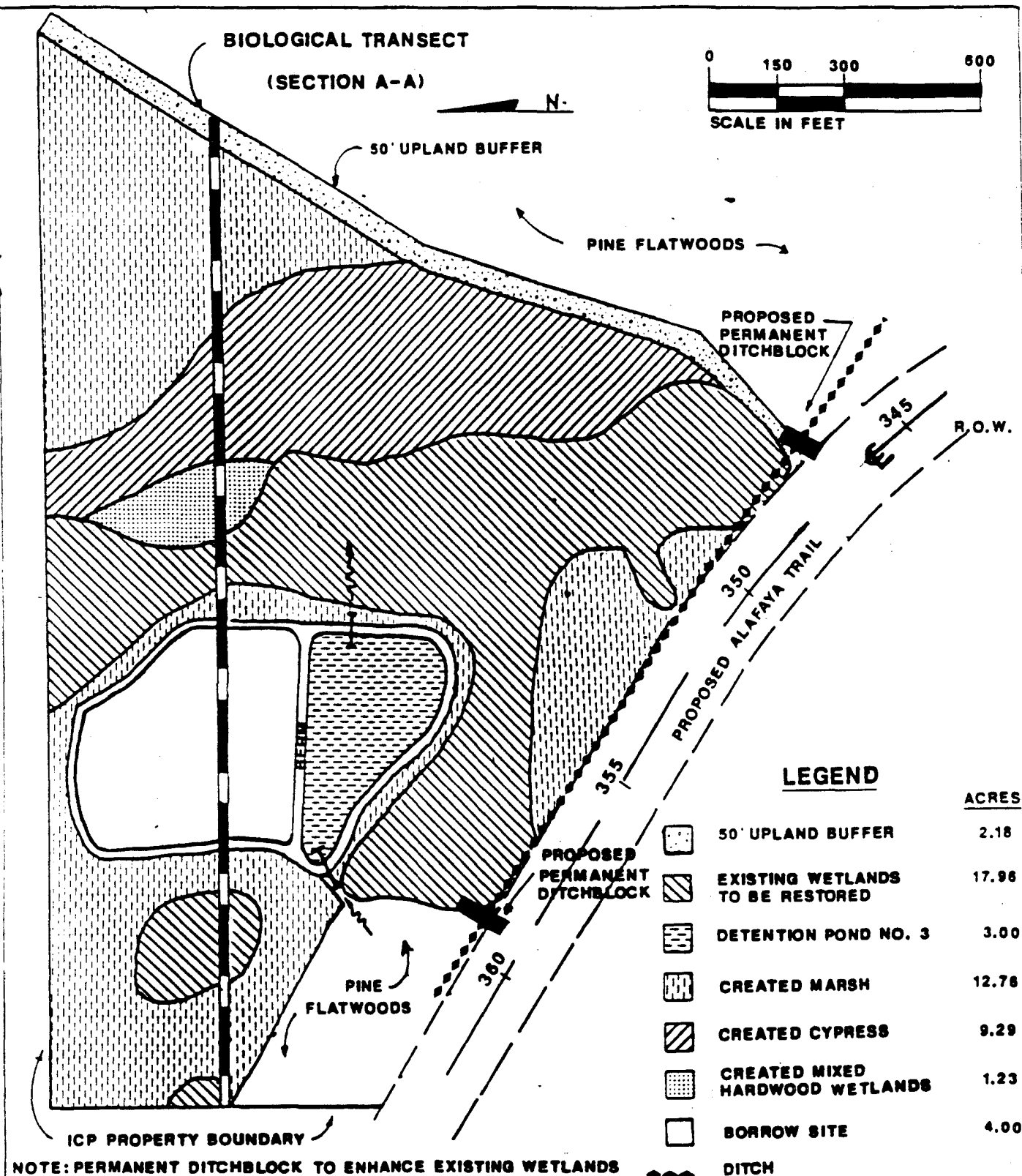
The detention pond and the borrow site will not be considered as part of the mitigation compensation for SJRWMD or FDER. However, the littoral zone within the detention pond will be used as mitigation credit with the U.S. Army Corps of Engineers (COE). Wildlife will utilize the wet detention pond for foraging and possible nesting as if the system was a natural wetlands. The littoral zone will be planted with herbaceous species (i.e., maidencane, pickerelweed, etc.).

The following plan should compensate for the wetland impacts on-site.

1. The wetland mitigation plan will consist of the components listed on Table 2.

Vegetation species will be selected from the preceding list and in accordance with established planting schedules. Species selection will be approved by the appropriate agency(ies). Lines of planting shall be meandered to simulate natural occurrence.

2. A six-inch (6") muck blanket will be placed in the created marsh areas. If herbaceous plants colonize successfully within a year, no herbaceous planting will be initiated. As part of the contingency plan the plants listed in Tables 2 and 3 and Figure 5 will be used.
3. Tree species will be installed with spacing and density as depicted on Table 3 and Figures 6 and 7.
4. Planting of tree species will be supervised to ensure shock is minimal and that their survivability is increased. Planting of herbaceous species, if required, will be conducted in early spring or summer to avoid chance of frost and allow establishment of root systems prior to the rainy seasons.



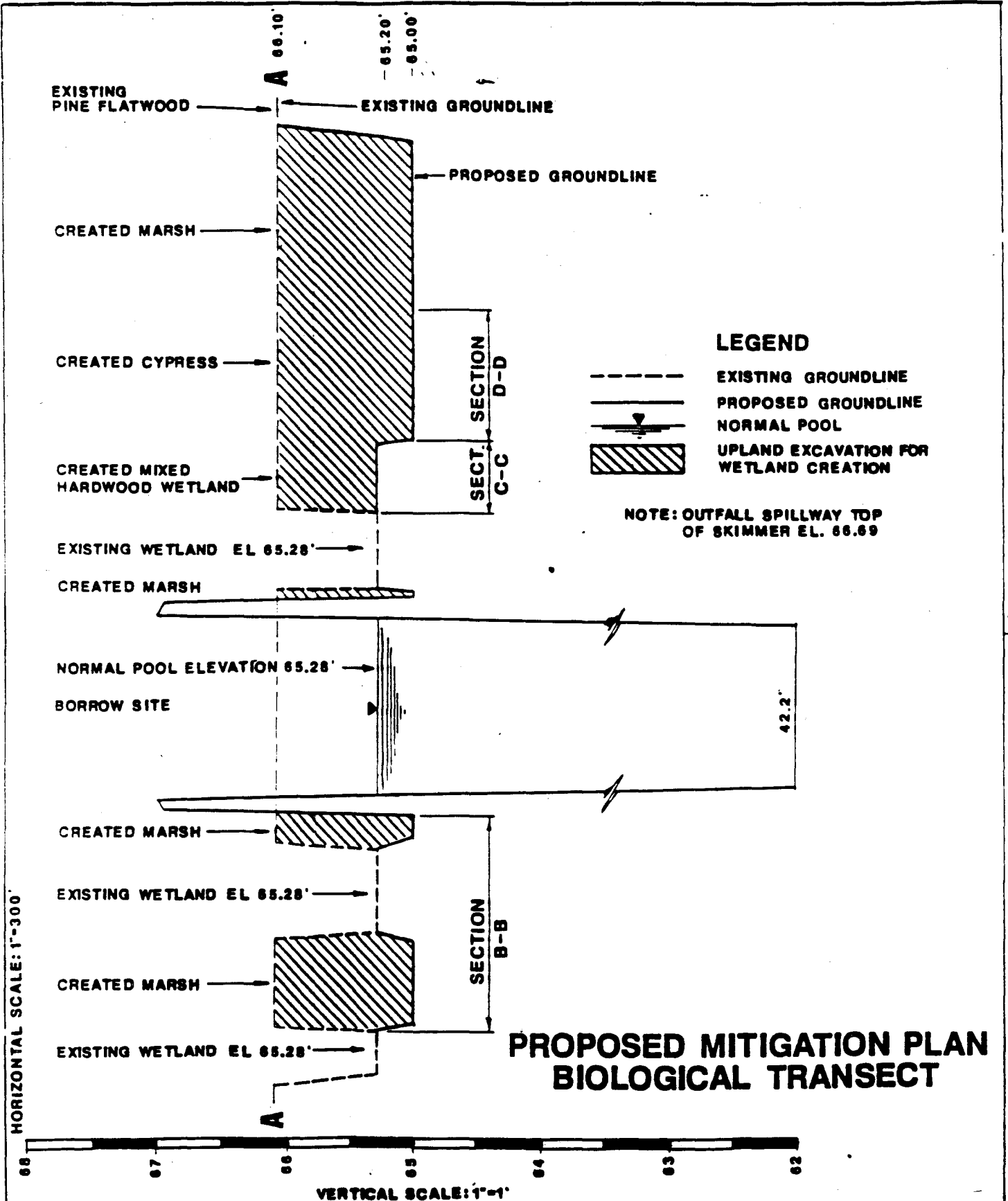
PROPOSED MITIGATION PLAN

GREINER, INC
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE CO., FLORIDA

FIGURE 3 PLAN VIEW

DATE: MARCH 1990 REV. MAY 1990



GREINER, INC
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE CO., FLORIDA

FIGURE 4

SECTION A-A

DATE: MARCH 1990 REV. MAY 1990

Page 6.2-115

TABLE 2

WETLAND MITIGATION PLANTING AREAS

AREA	ELEVATION	ACREAGE	RECOMMENDED PLANT SPECIES
Created Marsh*	12" below existing grade	12.76	*Pickerelweed (<u>Pontederia cordata</u>) *Arrowhead (<u>Sagittaria</u> spp.) *Soft Rush (<u>Juncus effusus</u>) *Cordgrass (<u>Spartina bakerii</u>)
Created Cypress	12" below existing grade	9.29	Cypress (<u>Taxodium</u> spp.) Tupelo (<u>Nyssa</u> spp.)
Created Mixed Hardwood Wetland	9" below existing grade	1.23	Red Maple (<u>Acer rubrum</u>) Dahoon Holly (<u>Ilex cassine</u>) Water Oak (<u>Quercus nigra</u>) Laurel Oak (<u>Quercus laurifolia</u>)
Littoral Zone of Detention Ponds	Normal Pool to 2' below normal pool elevation	3.73	Pickerelweed (<u>Pontederia cordata</u>) Arrowhead (<u>Sagittaria</u> spp.) Soft Rush (<u>Juncus effusus</u>) Cordgrass (<u>Spartina bakerii</u>)
Wetland Restoration/Enhancement	Existing Elevation	17.96	None
Upland Buffer	Existing Elevation	2.18	None
TOTAL MITIGATION CREDIT PLUS LITTORAL SHELF		43.42 3.73 47.15	

NOTE: Mitigation Ratios for the Alafaya Trail Extension Mitigation Site:
(Including the northern and southern extent)

	<u>Creation</u>	<u>Restoration</u>	<u>Total</u>
FDER	5.5:1	4.2:1	9.7:1
SJRWMD	1.2:1	0.9:1	2.1:1

* A 6" thick muck blanket will be placed in the created marsh areas. If herbaceous plants colonize successfully within a year, the above listed herbaceous planting will not be initiated.

TABLE 3

WETLAND MITIGATION PLAN
PLANT SPACING AND DENSITY

SPECIES	AREA	SLOPE	ON-CENTER SPACING	SIZE SPECIFICATION	REMARKS
Red Maple Dahoon Water Oak Laurel Oak	Created Mixed Hardwood Wetland	20:1	10 feet	three gallon	
Cypress* Typhelo	Created Cypress	20:1	10 feet	three gallon	
Pickersweed Arrowhead Soft Rush Cordgrass	Created Marsh** & Littoral Zone	6:1 to 12:1	3 feet	1.5 to 2 feet 5 to 7 petioles or stems	Species staggered. Plants in cluster spaced 3 feet on center.

* Primarily Cypress will be planted in this area.

** A 6" thick muck blanket will be placed in the created marsh area. If herbaceous plants colonize successfully within a year, the above listed herbaceous planting will not be initiated.

NOTE: Mulching from good wetland sources will occur in the created forested wetlands to allow for herbaceous plant species to revegetate naturally.

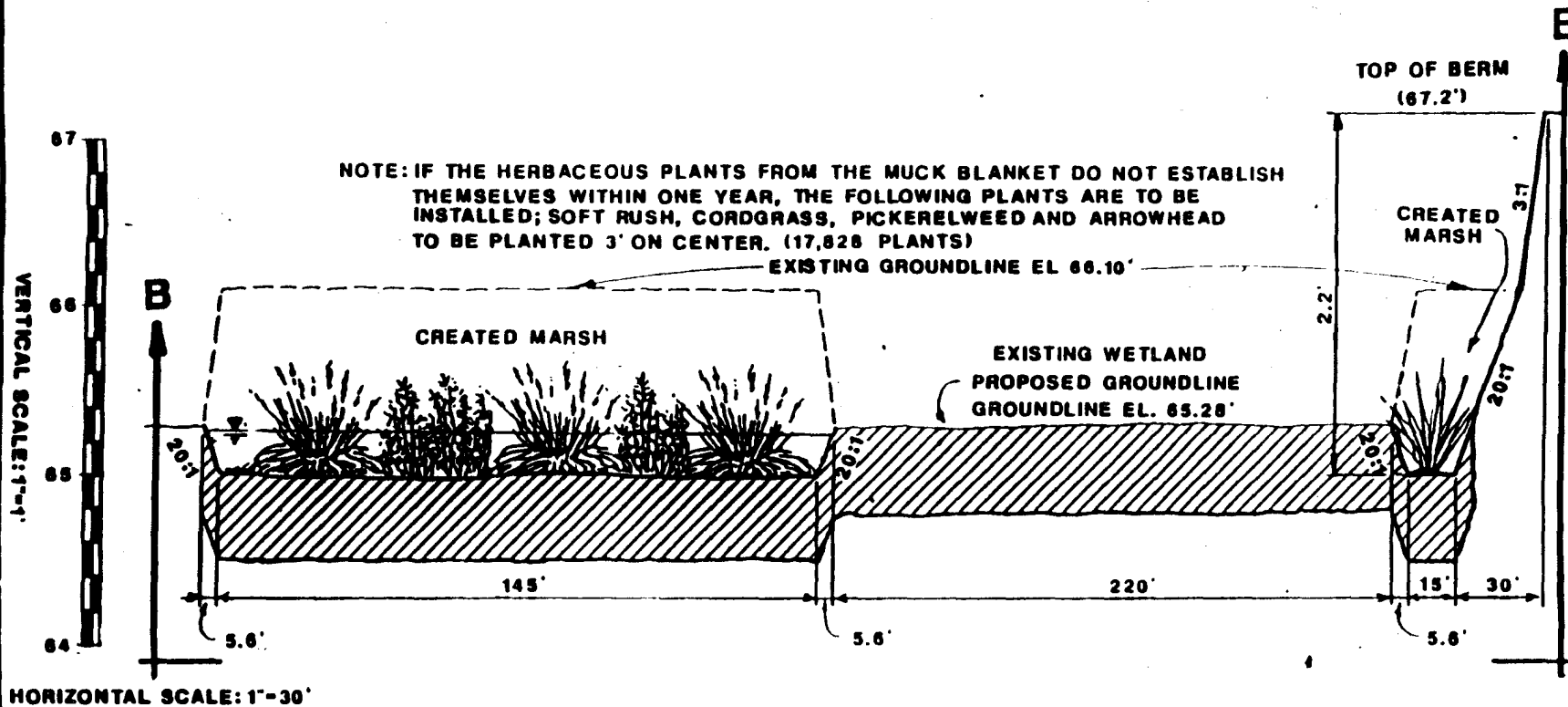
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EXTENSION**
ORANGE CO., FLORIDA

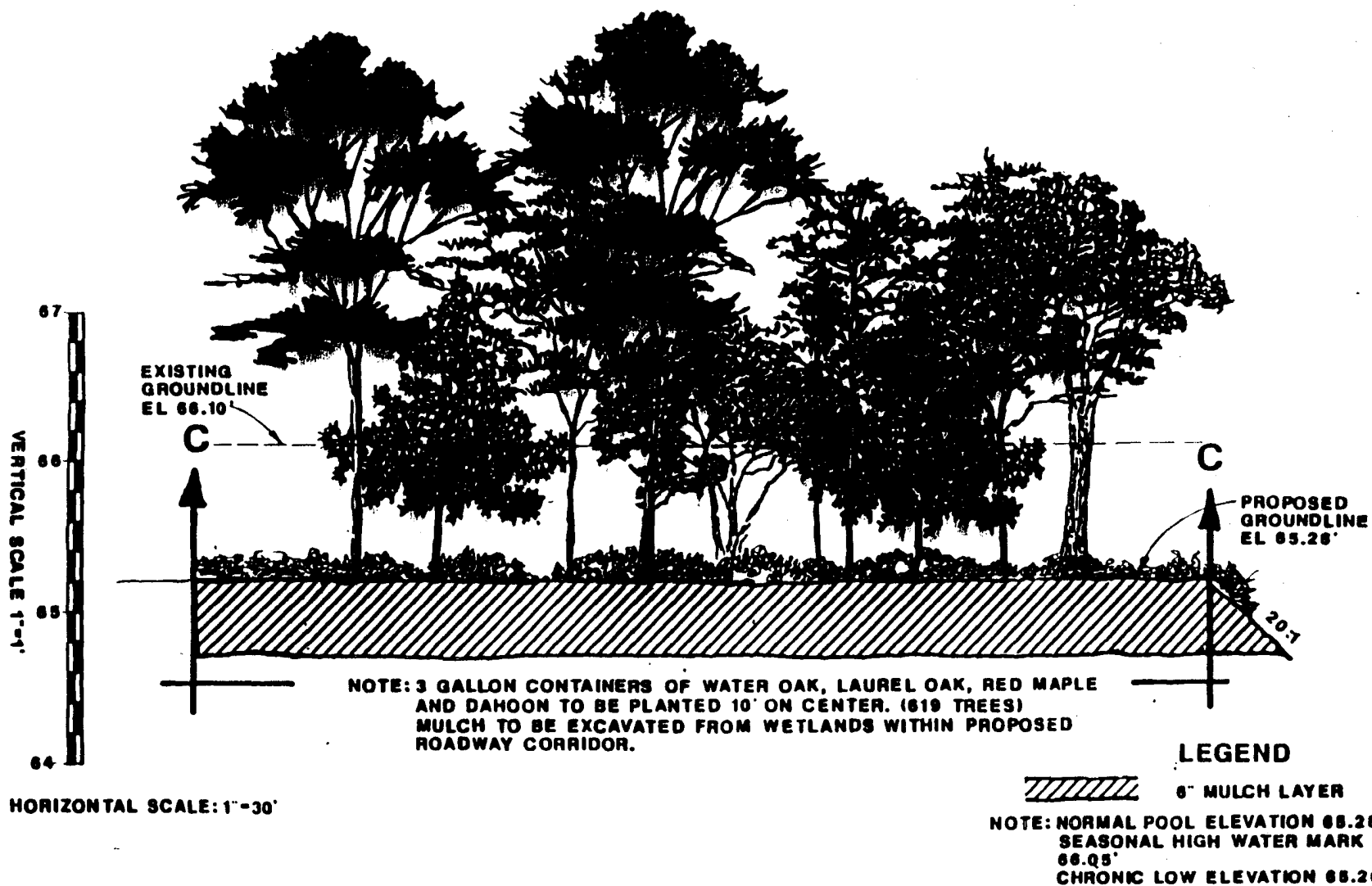
FIGURE 5 SECTION B-B

DATE: MAY 1990

REVISED: JUNE 1990



**CREATED MARSH
CROSS SECTION**



CREATED MIXED HARDWOOD WETLAND CROSS SECTION

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ORANGE CO., FLORIDA

FIGURE 6 SECTION C-C

DATE: MAY 1990

REVISED: JUNE 1990

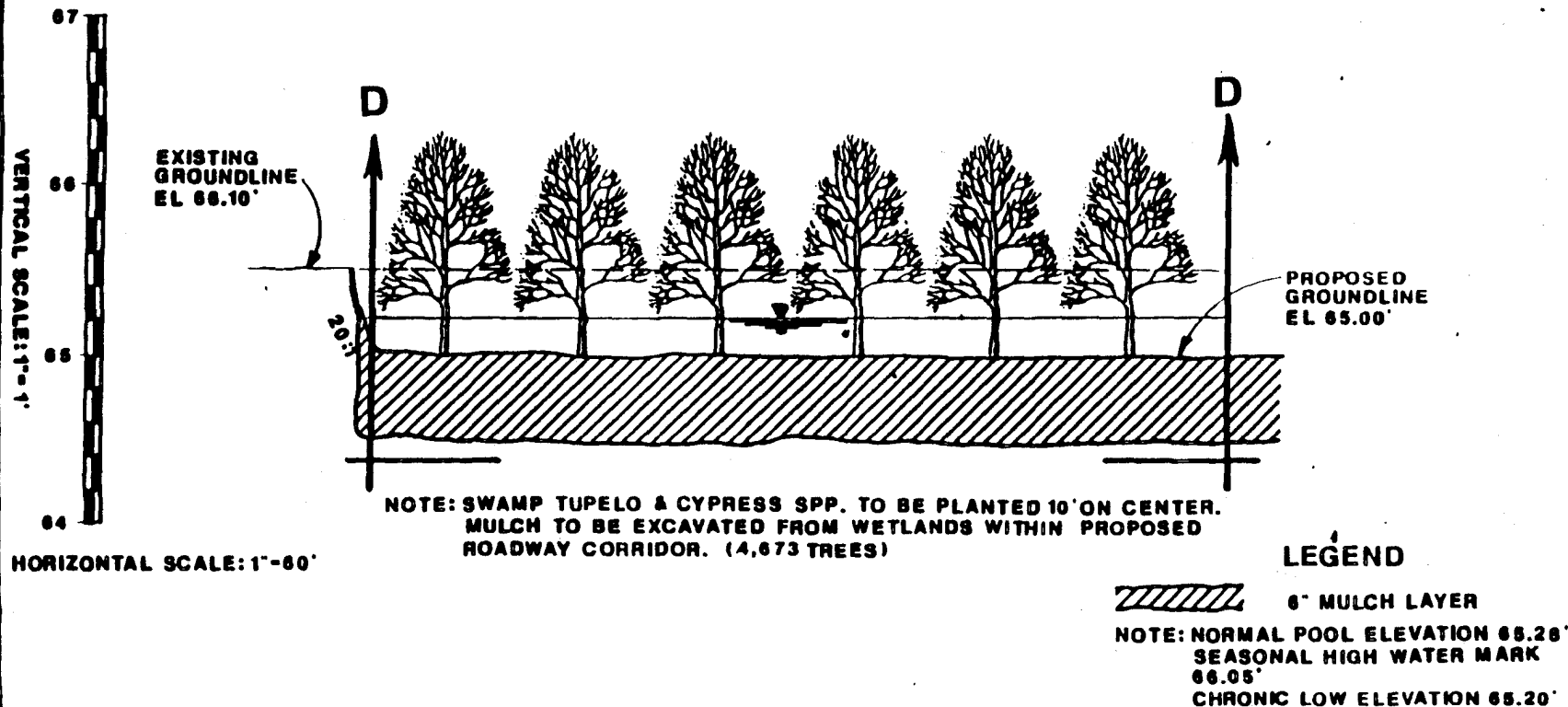
GREINER, INC
CONSULTING ENGINEERS

ALAFAYA TRAIL
EXTENSION
ORANGE CO., FLORIDA

FIGURE 7

SECTION D-D

DATE: MAY 1990



CREATED CYPRESS
CROSS SECTION

5. All created wetlands will be inspected by a biologist/ecologist and engineer for optimum hydrological conditions, water table elevations, design slope, and design contours prior to planting. No planting will begin until all of the above conditions and special conditions of the permit are met. The Contractor will maintain a saturated soil condition during plant installation within the created wetlands.
6. After construction of the wetlands mitigation area is complete, engineer's as-built certification will be submitted to the appropriate regulatory agency(ies) for final inspection and approval for sign-off.
7. Construction of the wetland creation areas will occur at the time of land clearing of the road alignment. The creation areas will be mulched and planted as soon as existing wetlands are impacted.
8. The mitigation area will be recorded as a permanent conservation easement and no wetland destruction/alteration can take place within this easement.
9. The creation of littoral shelves around all six project detention ponds located adjacent to the Alafaya Trail Extension will consist of 3.73 acres.
10. The placement of two "critter crossings" at Green Branch and Hart Branch will consist of 48-inch concrete pipes.
11. The existing wetlands within the mitigation area will be enhanced. Ditches that drain these wetlands will be blocked to allow the distressed hydroperiod to return to pre-existing conditions.

Existing Wetland Conditions

The adjacent cypress system to the proposed mitigation site is dominated by cypress (Taxodium spp), with understory of dahoon (Ilex cassine) and wax myrtle (Myrica cerifera). Ground cover consists of swamp fern (Blechnum serrulatum), grasses, sedges and vines.

This system is inundated periodically and fluctuates in accordance with natural wet and dry seasonal cycles.

There is a swale that is cut from this wetland to the next cypress system, which drains this system. These restored wetlands are to receive enhancement credit.

Assurance of Success

The monitoring plan and maintenance program provide a check and balance to ensure continued performance of the created wetlands. Any non-compliance deviation will be corrected and noted in the annual report.

Tree and Herbaceous Species Density

The freshwater marsh, if required to be planted, will have approximately 1,397 plants installed per acre for a total of 17,828 plants.

The mixed hardwood wetland will have approximately 503 trees (three-gallon size) installed per acre for a total of 619 trees.

The created cypress wetlands will have approximately 503 trees per acre (three-gallon size) installed per acre for a total of 4,673 trees (9.29 acres).

3.4 WETLANDS MONITORING AND MAINTENANCE PROGRAM

The following monitoring and maintenance program will be implemented for the wetlands mitigation plan after installation of the plant species. Figure 4 is a plan view showing typical location of a transect through the created and existing wetlands to be monitored.

Annual reports are to evaluate the success of the wetlands and provide corrective measures that will make the wetland successful, if needed.

1. The Contractor is required to monitor the planted areas bi-annually for the first year and then annually the last two years to document the success of the mitigation plan. Each monitoring episode will include photo documentation, percent survival, percent cover and percent undesirables. An annual report of findings and recommendations for the mitigation plan will be submitted to the appropriate governmental agency(ies).
2. All plants installed in the created wetlands will be guaranteed for at least 80% survival rate for three years in the mitigation area.
3. The Contractor is expected to replant those plant materials which do not achieve the 80% survival rate for three years in the mitigation area.
4. A maintenance program is vital for any created wetlands to be successful. Undesirable species, such as cattails, primrose willow, and exotics are to be removed/eliminated from the created wetlands annually after the plants are installed. The exotics/nuisance species should not exceed above 10 percent in ground cover.
5. ICP will issue a maintenance bond to Orange County and be responsible for three years' monitoring, maintenance, and success. After three years, the County will be responsible for monitoring, maintenance and success of the mitigation area.

6. As recorded in the Orange County Plat Book (OR BK. 3802, Pages 4466 through 4496) and as a condition of ICP's Development Order (DO), ICP is required to design and construct Alafaya Trail Extension. This DO was adopted and signed by the Orange County Board of County Commissioners June 30, 1986.

Vegetation Sampling and Data Analysis Methods

Field sampling to determine the success of the created wetlands is described below:

Two permanent elongated quadrants (transect quadrants measuring 30 feet by 60 feet) will be established in each created wetland (cypress, mixed hardwood wetland and freshwater marsh). A PVC pipe 10 feet in length will be placed in the ground at 30-foot intervals and at the end of the elongated (60-foot) portion of each quadrant. All vegetation strata will be monitored by sampling of 10 square foot plots for percent coverage of herbaceous species and stem counts of woody vegetation. The vegetation sampling frequency schedule will commence at the end of the planting phase of each wetland created.

All systems will be sampled in June each year for a total of three years. Each wetland created will have a survival rate of 80%.

Shrubs will be sampled by noting points along the transect line where canopies of shrubs intercept the line. Species of shrub, beginning and ending intercept points of shrub canopy, and number of shrubs will be recorded. Shrub data will be used to determine density and relative cover of shrubs in each wetland plot.

Cover data for each species will be generated on number of species, approximate percent cover (by cover) and frequency of occurrence of each species.

Photographic documentation of the mitigation/monitoring (fixed) sites will be provided in the annual report.

Water level will be monitored by placing a permanent staff gage in each wetland created. The water levels will be monitored monthly during construction and for three years following buildout. A rain gage will also be installed to provide information on monthly precipitation.

Data Analysis Methods

The following information on community structure will be collected for canopy and sub-canopy species:

Density = the average number of individuals per acre sampled (also number of stems of each species per acre).

Dominance = dominance of a single species divided by total number of all species expressed as 100%.

Relative Cover = Cover of individuals of single species divided by cover of individuals of all species (expressed as a percent).

Frequency = an expression of the percentage of sample plots in which a species occurs over time.

Annual Report

An annual report will be provided to the appropriate agency within 60 days of the completion of the last sampling, which will include construction/plant installation phase of the created wetlands and one year sampling results. Areas not achieving a minimum of 80% coverage will be replanted with the appropriate species. Any additional mitigative measures, if needed, will be addressed in the annual report.

ATTACHMENT "F"

CALCULATED FLOW RATES

03.07.90 10:29AM

LOCHRANE ENGINEERING, INC.

201 S. Bumby Avenue
ORLANDO, FL 32803
(407) 896-3317

SHEET NO. _____ CF _____

CALCULATED BY _____ Cal _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

Green Branch Crossing

$$Q = C I A$$

$$C = 0.15 \text{ (Flat Woodlands)}$$

$$t_c = 14.41 \text{ hrs}$$

50 YR

$$Q = 0.15 (.035" / \text{hr}) 1944 \text{ AC}$$

$$= 169.13 \text{ CFS}$$

$$\# 90" \phi @ S=0\%$$

100 YR

$$Q = 0.15 (.064" / \text{hr}) 1944 \text{ AC}$$

$$= 186.62 \text{ CFS}$$

$$\# 96" \phi @ S=0\%$$

D. B. O'LEARY ENGINEERING, INC.

201 S. Bumby Avenue
ORLANDO, FL 32803
(407) 896-3317

SHEET NO. _____ OF _____

CALCULATED BY Col DATE _____

CHECKED BY _____ DATE _____

SCALE _____

CulvertsGreen Branch Crossing

$Q = C \cdot A$

$C = 0.15 \text{ (Flat Woodlands)}$

$t_c = 14.41 \text{ hrs}$

100 yr

$Q = 0.15 (0.14 \text{ in/hr}) 644 \text{ ac}$

$= 166.62 \text{ cfs}$

$\# 16" \phi @ 5' = 0.007 \text{ Area} = 50.266 \text{ sf}$

Use (1) 6' x 24' con span arch

bury footing to 3' clearance between
existing ground & top of archreduced to (1) 3' x 24' 49.0 sf waterway Area
critter crossings (2) 30' x 60' (2) 12.9 sf

61.9 sf waterway Area provided

50 yr

$Q = 0.15 (0.58 \text{ in/hr}) 1944 \text{ ac}$

$= 169.13 \text{ cfs}$

$\# 90" \phi @ 5' = 0.007 \text{ Area} = 44.17 \text{ sf}$

61.9 sf waterway area provided

Image Quality

As you review the next group of images, Please note that the original documents were of poor quality.

WATER BUDGET

PROJECT: GOLFWAYS TRAIL

ENGINEER: EUSTWICK

RESID: 1

DRAINAGE AREA 4.6 AC

POND AREA 1.7 AC

WEIGHTED 'C' 25 % PRE
 52 % POST

MONTH	MEAN RAINFALL (in)	PRE-DEV RUNOFF (ac-ft)	POST DEV RUNOFF (ac-ft)	PRE-DEV E.T. VOL (ac-ft)	POST DEV EVAP (ac-ft)	NET RUNOFF VOL (ac-ft)
JANUARY	2.19	0.21	0.44	0.40	0.55	0.07
FEBRUARY	2.79	0.27	0.56	0.40	0.55	0.13
MARCH	3.48	0.33	0.69	0.40	0.55	0.21
APRIL	2.41	0.23	0.48	0.40	0.55	0.09
MAY	3.42	0.33	0.68	0.40	0.55	0.20
JUNE	7.04	0.67	1.40	0.40	0.55	0.57
JULY	8.01	0.77	1.60	0.40	0.55	0.67
AUGUST	6.72	0.64	1.34	0.40	0.55	0.54
SEPTEMBER	6.52	0.65	1.36	0.40	0.55	0.55
OCTOBER	3.33	0.32	0.66	0.40	0.55	0.19
NOVEMBER	1.96	0.19	0.39	0.40	0.55	0.05
DECEMBER	1.56	0.19	0.39	0.40	0.55	0.05
TOTAL	50.13	4.80	9.99	4.80	6.66	3.33

COLUMN 1- Mean rainfall for Orlando, Florida recorded by NOAA

COLUMN 2- (Pre-Dev weighted 'C' * Rainfall * Drainage Area) / 12

COLUMN 3- (Post Dev. weighted 'C' * Rainfall * Drainage Area) / 12

COLUMN 4- Pre-Dev Evapotrans. Vol. = 35.9 in/yr * Pond area * 1ft-yr/144in-mo
 "EVAPOTRANSPIRATION PATTERNS IN FLORIDA", R. DOHRENWEND

COLUMN 5- Post Dev. Pond Evap. Vol. = 47in/yr * Pond Area * 1ft-yr/144in-mo
 "AVG LAKE EVAPORATION RATE FOR THE ORLANDO AREA", FL. BUREAU OF GEOLOGY.

COLUMN 6- POST RUNOFF- PRE RUNOFF- (POND EVAP. - PRE E.T.)

WATER BUDGET

PROJECT: NORFAYN TRAIL

ENGINEER: BOSTWICK

SIN: 2

DRAINAGE AREA 4.2 AC

POND AREA 3.9 AC

WEIGHTED 'C' 35 % PRE
67 % POST

MONTH	MEAN RAINFALL (in)	PRE-DEV RUNOFF (ac-ft)	POST DEV RUNOFF (ac-ft)	PRE-DEV E.T. VOL (ac-ft)	POST DEV EVAP (ac-ft)	NET RUNOFF VOL (ac-ft)
JANUARY	3.19	0.19	0.31	0.92	1.27	-0.03
FEBRUARY	3.73	0.24	0.43	0.92	1.27	0.06
MARCH	3.48	0.30	0.52	0.92	1.27	0.16
APRIL	3.41	0.21	0.37	0.92	1.27	-0.00
MAY	3.42	0.30	0.40	0.92	1.27	0.15
JUNE	7.04	0.62	1.65	0.92	1.27	0.68
JULY	8.01	0.70	1.89	0.92	1.27	0.82
AUGUST	6.72	0.59	1.58	0.92	1.27	0.63
SEPTEMBER	5.82	0.60	1.60	0.92	1.27	0.65
OCTOBER	3.33	0.23	0.78	0.92	1.27	0.13
NOVEMBER	1.96	0.17	0.46	0.92	1.27	-0.07
DECEMBER	1.96	0.17	0.46	0.92	1.27	-0.07
TOTAL	50.13	4.39	11.76	11.02	15.28	3.11

COLUMN 1- Mean rainfall for Orlando, Florida recorded by NOAA

COLUMN 2- (Pre-Dev weighted 'C' * Rainfall * Drainage Area) / 12

COLUMN 3- (Post Dev. weighted 'C' * Rainfall * Drainage Area) / 12

COLUMN 4- Pre-Dev Evapotrans. Vol. = 33.9 in/yr * Pond Area * 1ft-yr/144in-yr
"EVAPOTRANSPIRATION PATTERNS IN FLORIDA", R. DOHRENWEND

COLUMN 5- Post Dev Pond Evap. Vol. = 47in/yr * Pond Area * 1ft-yr/144in-yr
"AVG LAKE EVAPORATION RATE FOR THE ORLANDO AREA", FL. BUREAU OF GEOLOGY

COLUMN 6- POST RUNOFF- PRE RUNOFF- (POND EVAP. - PRE E.T.)

WATER BUDGET

PROJECT: ALAFAYA TRAIL

ENGINEER: BOSTWICK

BASIN: 3

DRAINAGE AREA: 8.1 AC

POND AREA: 2.9 AC

WEIGHTED 'C'
25 % PRE
53 % POST

MONTH	MEAN RAINFALL (in)	PRE-DEV RUNOFF (ac-ft)	POST DEV RUNOFF (ac-ft)	PRE-DEV E.T. VOL (ac-ft)	POST DEV EVAP (ac-ft)	NET RUNOFF VOL (ac-ft)
JANUARY	2.19	0.37	0.78	0.68	0.95	0.15
FEBRUARY	2.79	0.47	1.00	0.68	0.95	0.26
MARCH	3.48	0.59	1.24	0.68	0.95	0.39
APRIL	2.41	0.41	0.86	0.68	0.95	0.19
MAY	3.42	0.58	1.22	0.68	0.95	0.38
JUNE	7.04	1.19	2.52	0.68	0.95	1.07
JULY	8.01	1.35	2.87	0.68	0.95	1.25
AUGUST	6.72	1.13	2.40	0.68	0.95	1.01
SEPTEMBER	6.62	1.15	2.44	0.68	0.95	1.03
OCTOBER	3.33	0.56	1.19	0.68	0.95	0.37
NOVEMBER	1.55	0.33	0.70	0.68	0.95	0.11
DECEMBER	1.96	0.33	0.70	0.68	0.95	0.11
T O T A L	50.13	8.46	17.93	8.19	11.36	6.21

COLUMN 1- Mean rainfall for Orlando, Florida recorded by NOAA

COLUMN 2- (Pre-Dev weighted 'C' * Rainfall * Drainage Area)/12

COLUMN 3- (Post Dev. weighted 'C' * Rainfall * Drainage Area)/12

COLUMN 4- Pre-Dev Evapotrans. Vol. = 33.9 in/yr * Pond area * 1ft-yr/144in-mo
"EVAPOTRANSPIRATION PATTERNS IN FLORIDA", R. DOHRENWENDCOLUMN 5- Post Dev Pond Evap. Vol. = 47in/yr * Pond Area * 1ft-yr/144in-mo
"AVG LAKE EVAPORATION RATE FOR THE ORLANDO AREA", FL. BUREAU OF GEOLOGY

COLUMN 6- POST RUNOFF- PRE RUNOFF- (POND EVAP.- PRE E.T.)

TABLE 1

<u>POND SURVEY 4/22/90</u>		<u>NORMAL POOL ELEVATION</u>	<u>GEOTECHNICAL REPORT NO. 9796</u>
<u>POND 1</u>			
WET GROUND	64.08	65.0	64.5
LICHEN LINE	65.16		
<u>POND 2</u>			
WET GROUND	63.71	63.5	63.0
LICHEN LINE	64.14		
<u>POND 3</u>			
WET GROUND	65.28	65.2	65.3
LICHEN LINE	65.96		

ELEV. POINT (ON YARDS)
2.0.12

90/23

33 11. FS ELEV

POND #1

3.22 10.42 17.597 60 R. NAIL "10" PIPE 574 305.120 1.6' LT

6.21 GUD. SHUT
WOT

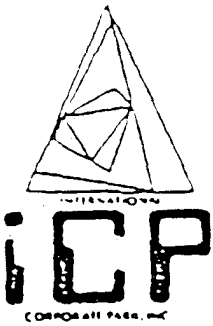
5.65 TOP NAIL
HIGHER LINE

5.16 LIGHT LINE

3.22 67.10

APR 24 1980

ATTACHMENT "II"



INTERNATIONAL CORPORATE PARK, INC.

May 4, 1990

Mr. Pat Frost
St. Johns River Water Management District
618 E. South Street
Orlando, FL 32801

RE: Application Number 12-095-0040A

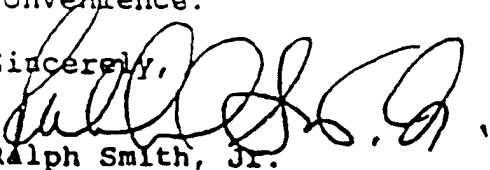
Dear Pat,

Please note the following per the above reference.

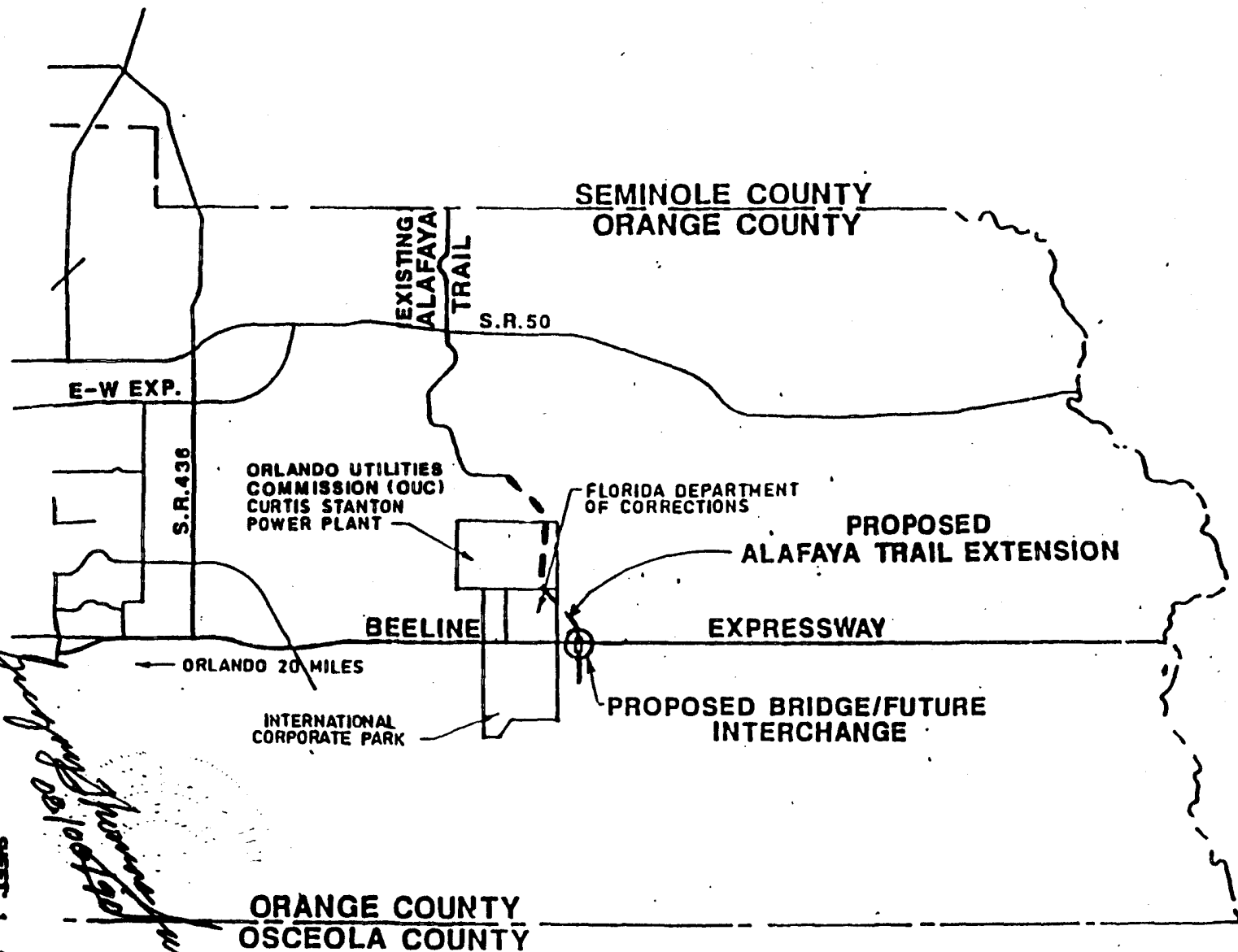
Under D.E.R. rules 17-312.390 International Corporate Park will provide evidence of financial resources necessary to conduct mitigation, before the start of any construction on Alafaya Trail.

Should you have any questions or comments call me at your convenience.

Sincerely,


Ralph Smith, Jr.
Project Engineer

RS/jc



SHEET: 1 OF: 13

Handwritten signature and date: July 10, 1988

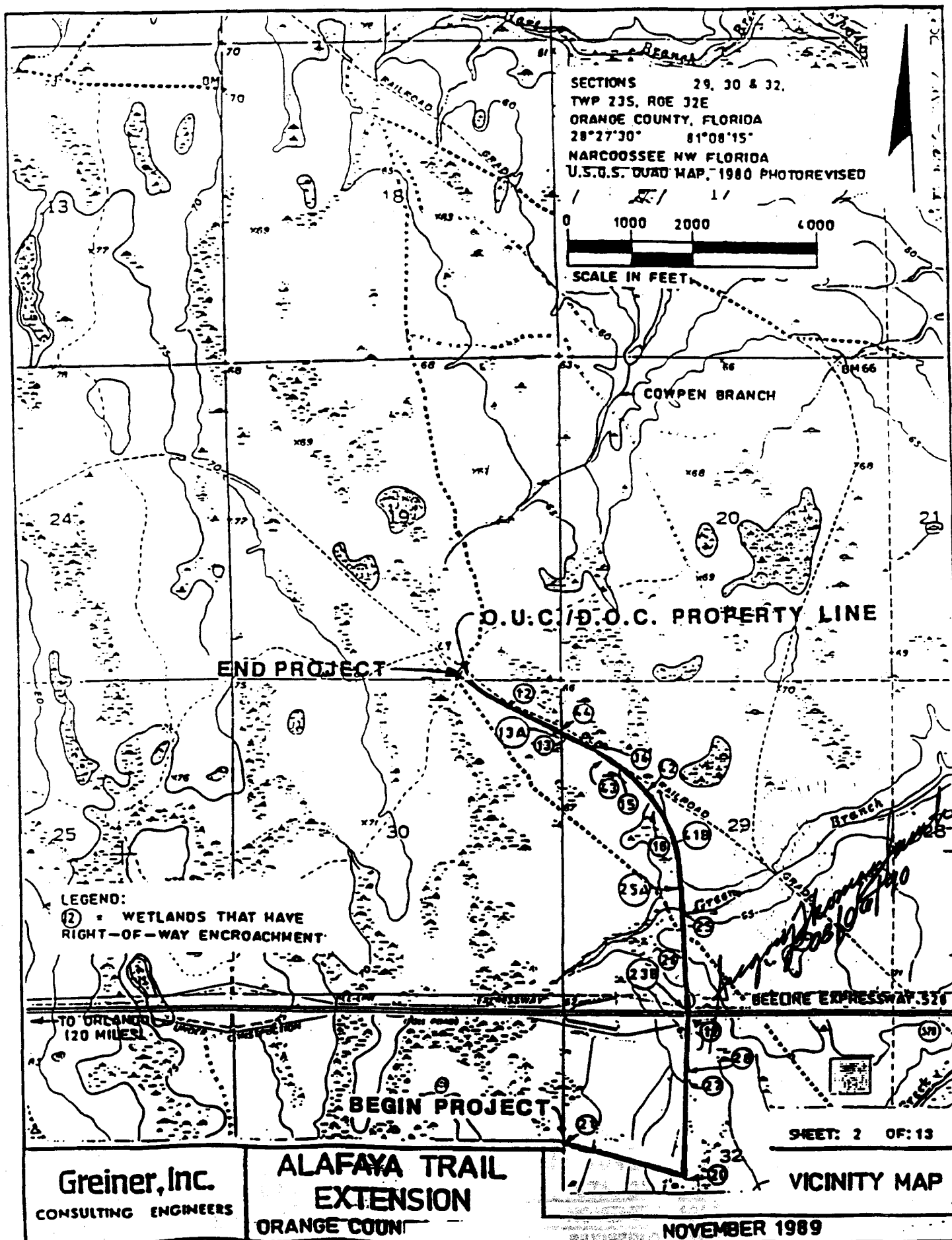
Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

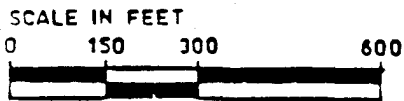
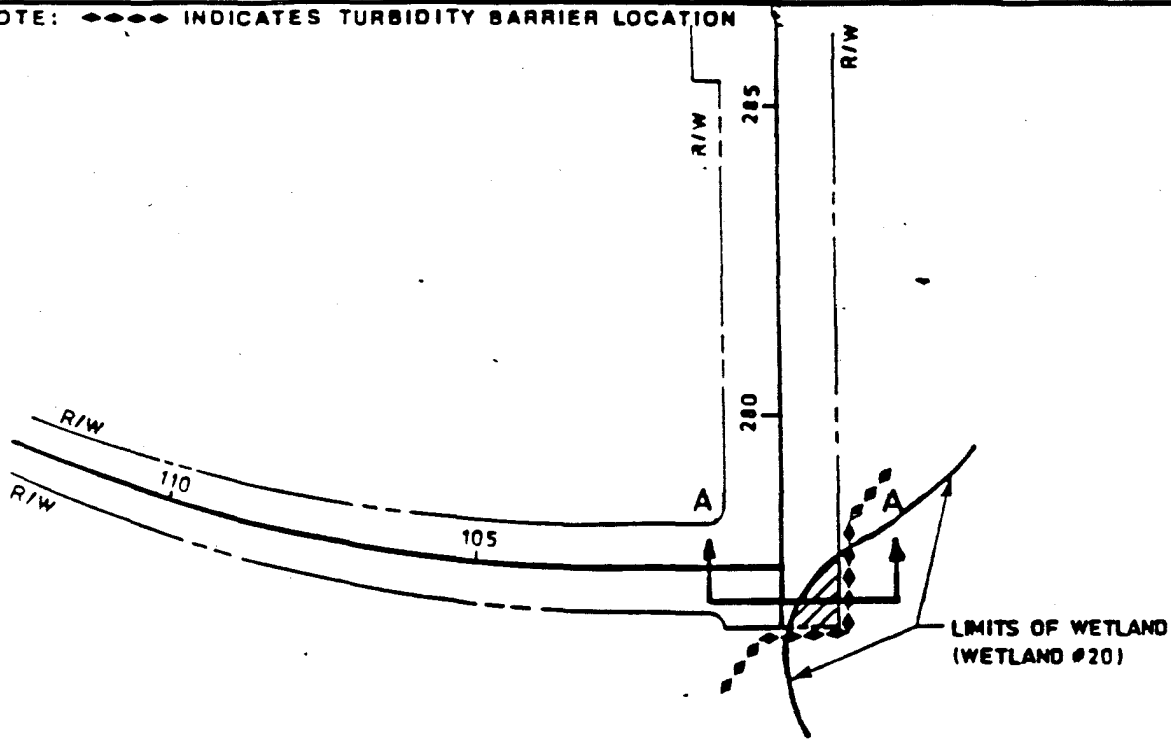
VICINITY MAP

NOVEMBER 1988

REVISED: JULY 1988

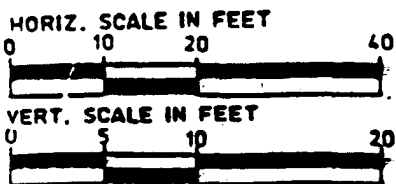
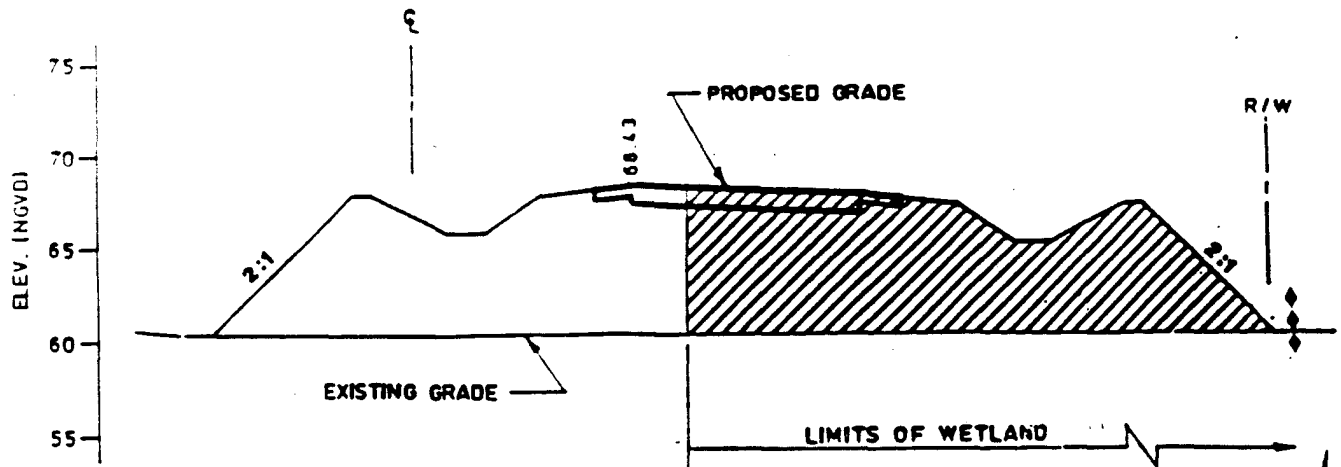


NOTE: ◆◆◆◆ INDICATES TURBIDITY BARRIER LOCATION



PLAN VIEW

AREA OF FILL (LANDWARD)



SECTION A-A

Gregory Thomas Javick

SHEET: 3 OF 13

Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY

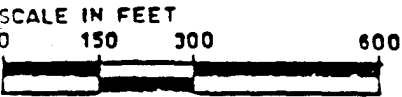
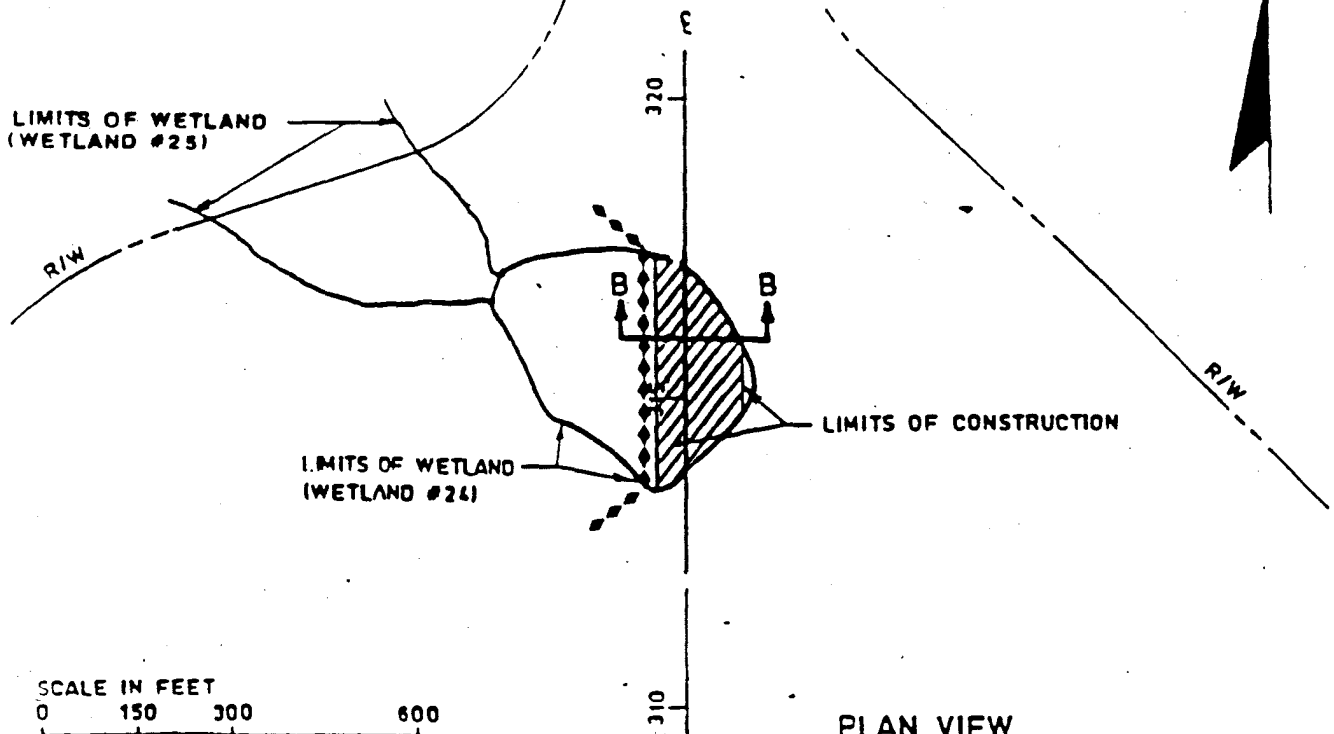
PLAN AND PROFILE

STA. 277 + 00

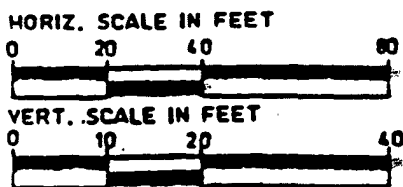
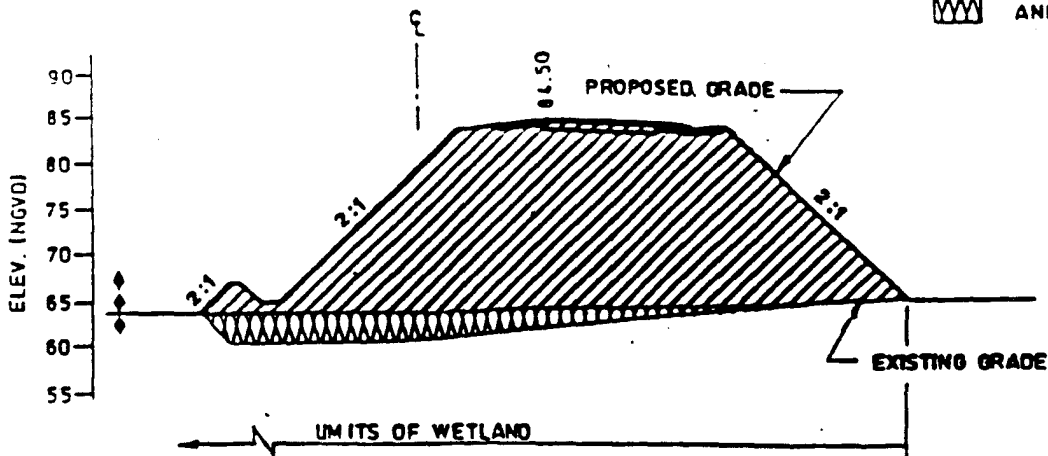
NOVEMBER 1989

REVISED: JULY 1988

NOTE: ◆◆◆ INDICATES TURBIDITY BARRIER LOCATION

LIMITS OF WETLAND
(WETLAND #25)

AREA OF FILL (LANDWARD)
AREA OF DEMUCKING AND BACKFILL



SHEET: 4 OF: 13

Greiner, Inc.
CONSULTING ENGINEERS

ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

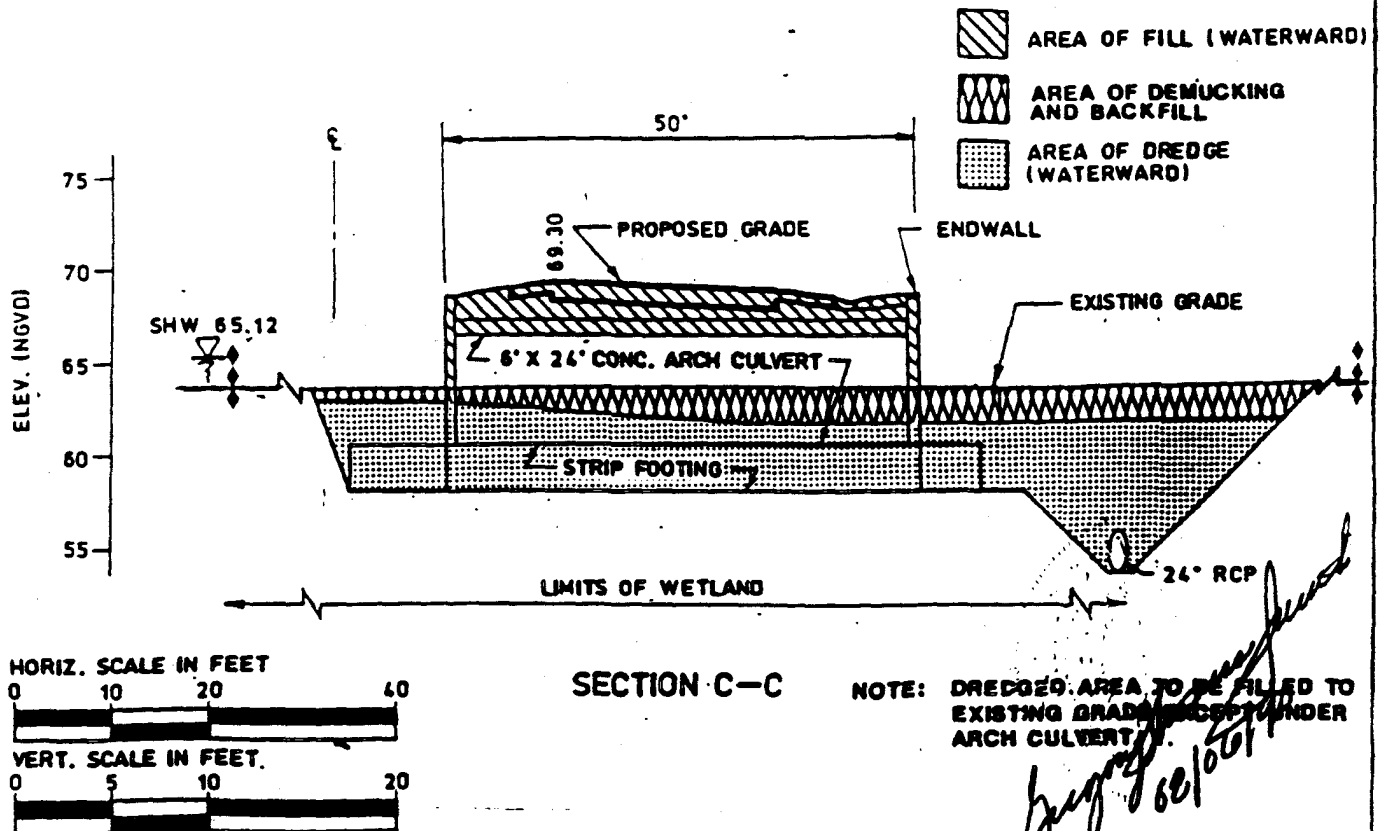
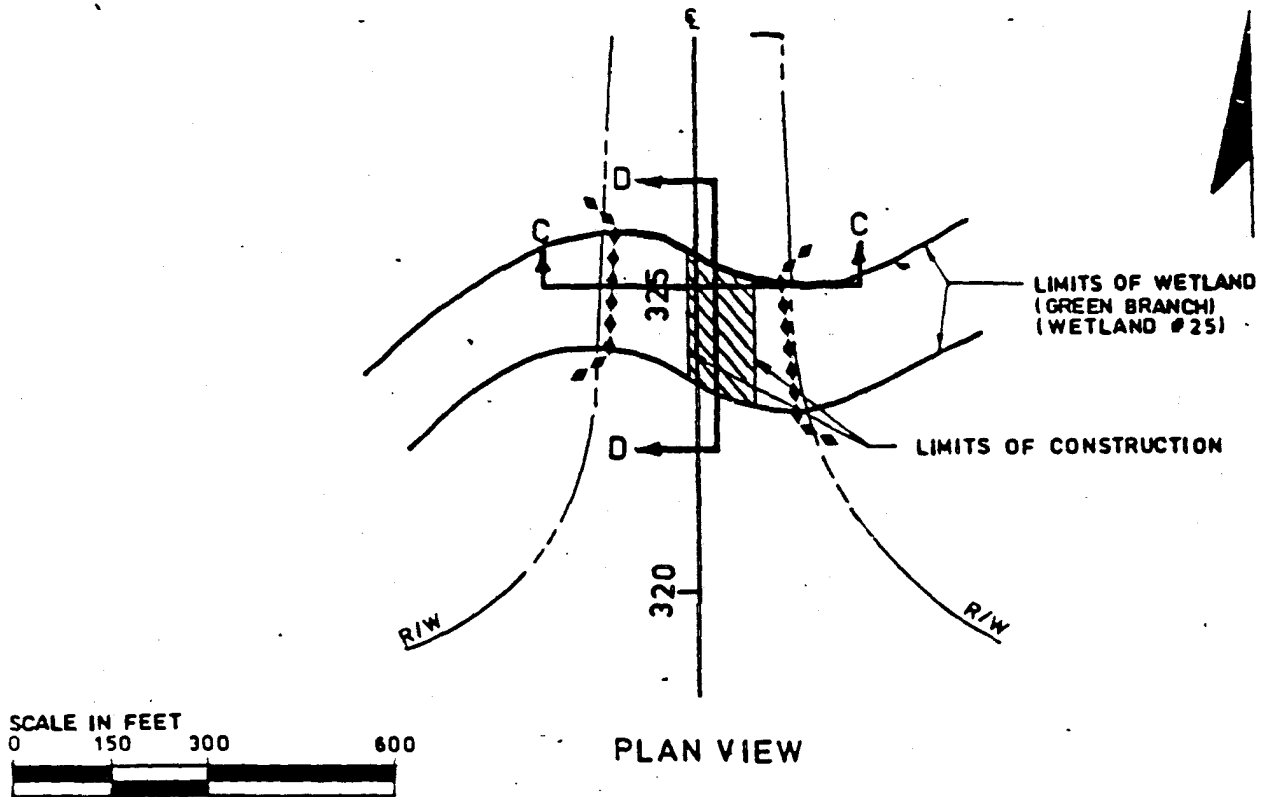
PLAN AND PROFILE

STA. 316 + 00

NOVEMBER 1989

REVISED: JULY 1990

NOTE: ◆◆◆◆ INDICATES TURBIDITY BARRIER LOCATION



SHEET: 5 OF: 13

Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 325 + 00

NOVEMBER 1999

REVISED: JULY 1999

SECTION D-D

ALAFAYA TRAIL
EXTENSION
ORANGE COUNTY, FLORIDA

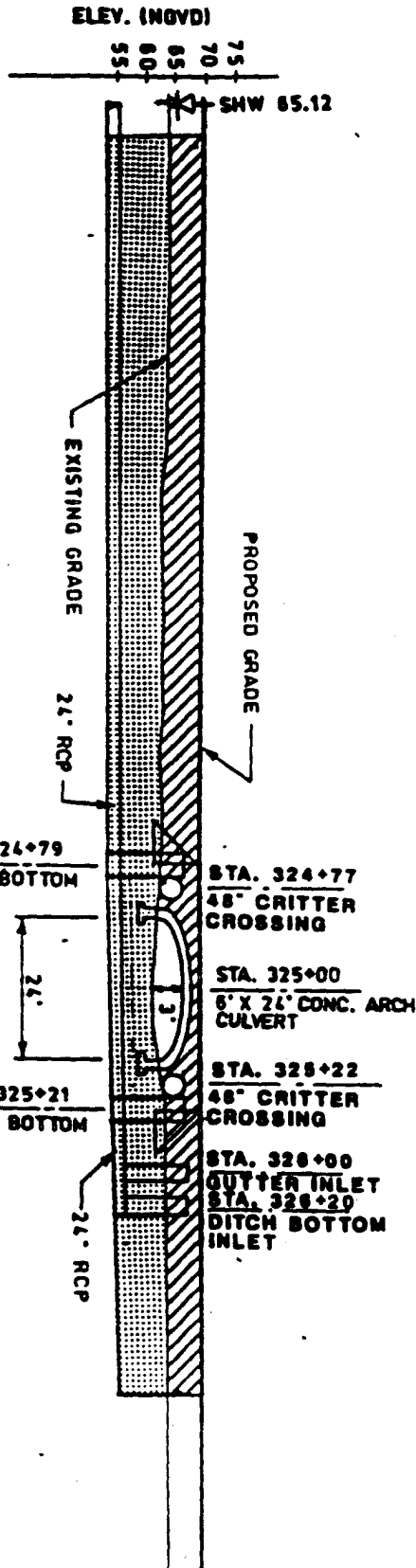
Greiner, Inc.
CONSULTING ENGINEERS

SHEET: 6 OF 13

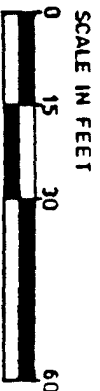
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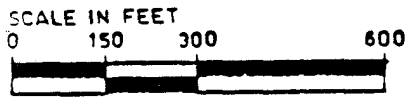
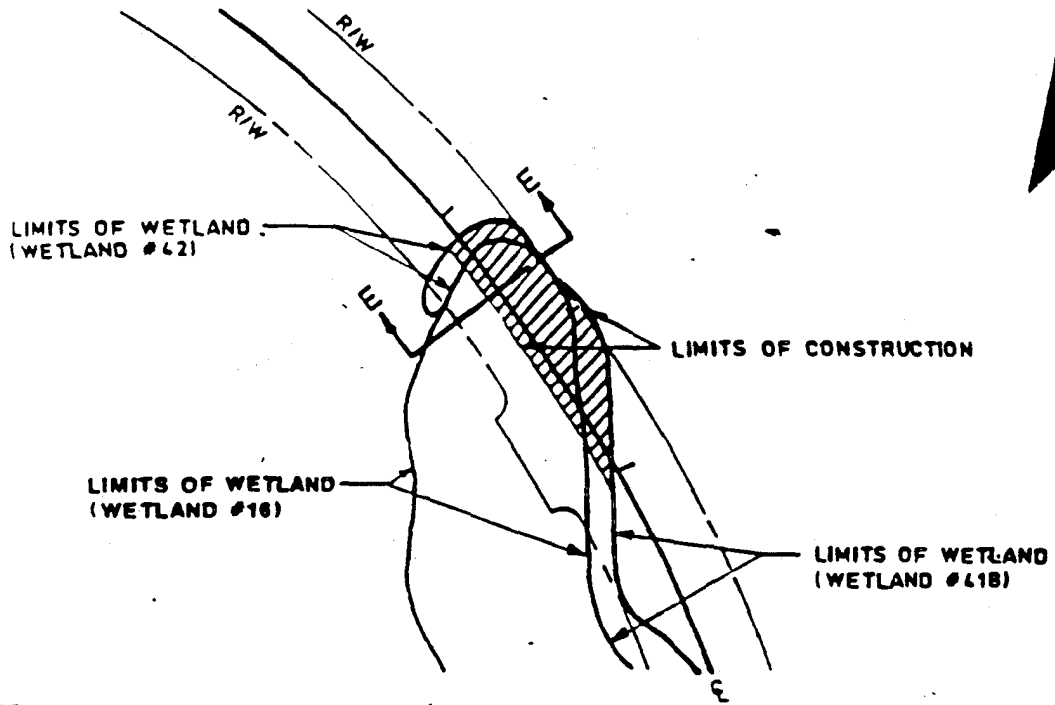
SECTION D-D
LIMITS OF WETLAND

NOTE: DREDGED AREA TO BE FILLED TO
EXISTING GRADE EXCEPT UNDER
ARCH CULVERT.

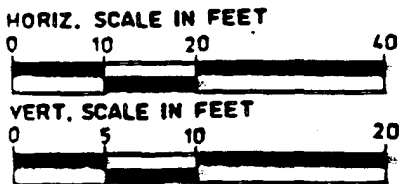
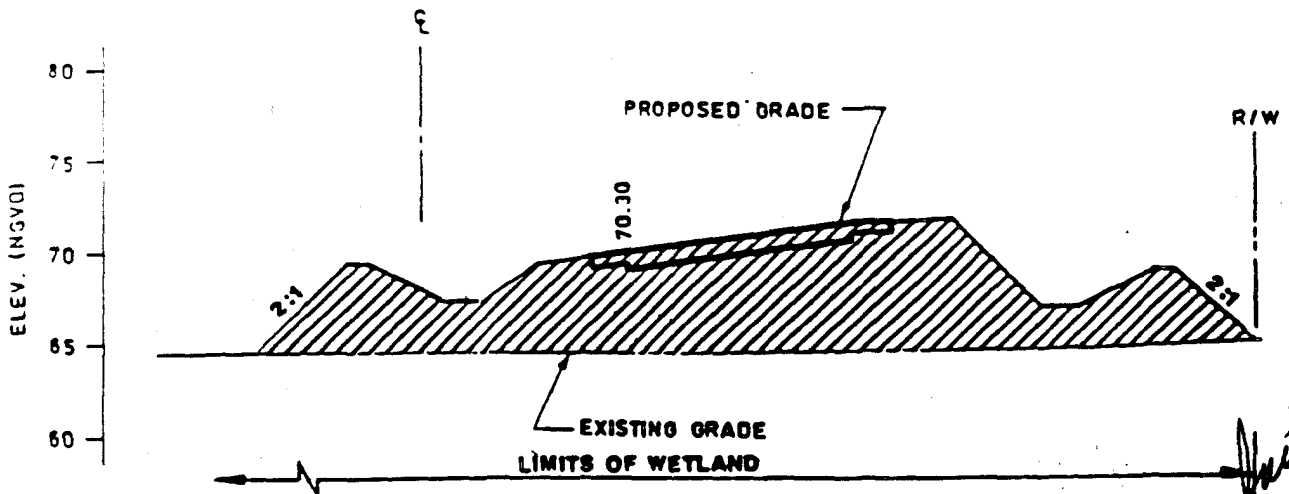


AREA OF FILL (WATERWARD)
AREA OF DREDGE (WATERWARD)





AREA OF FILL (LANDWARD)



Frederick Thomas
08/06/90

SHEET: 7 OF: 13

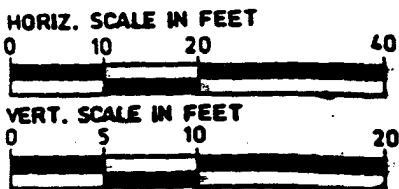
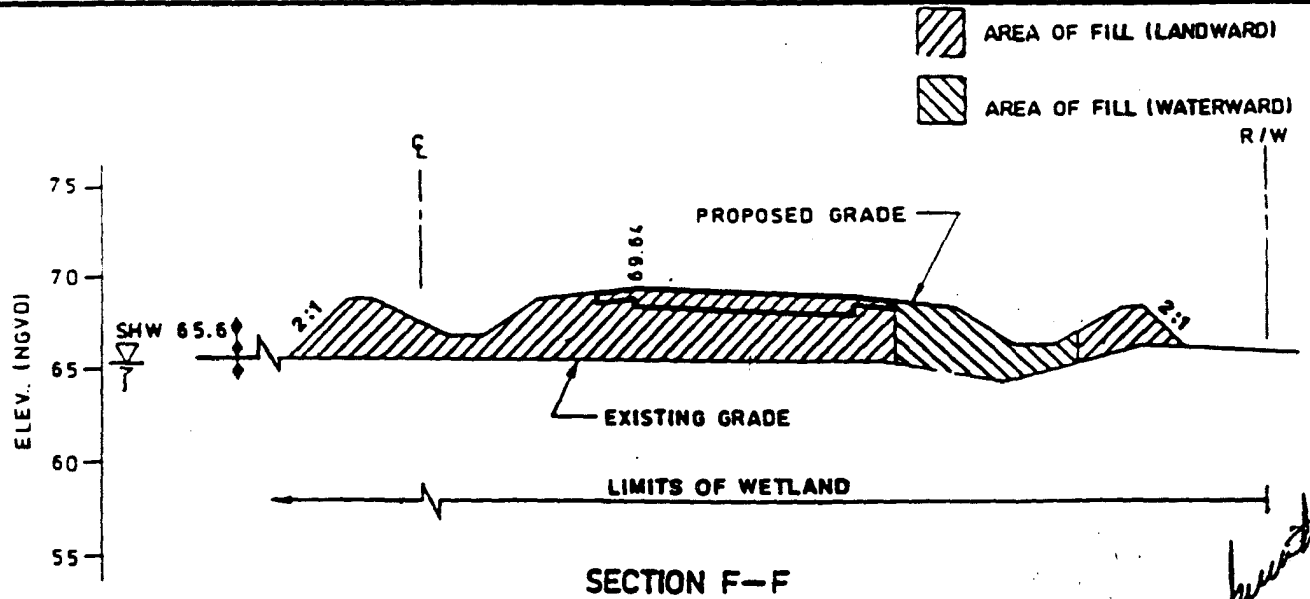
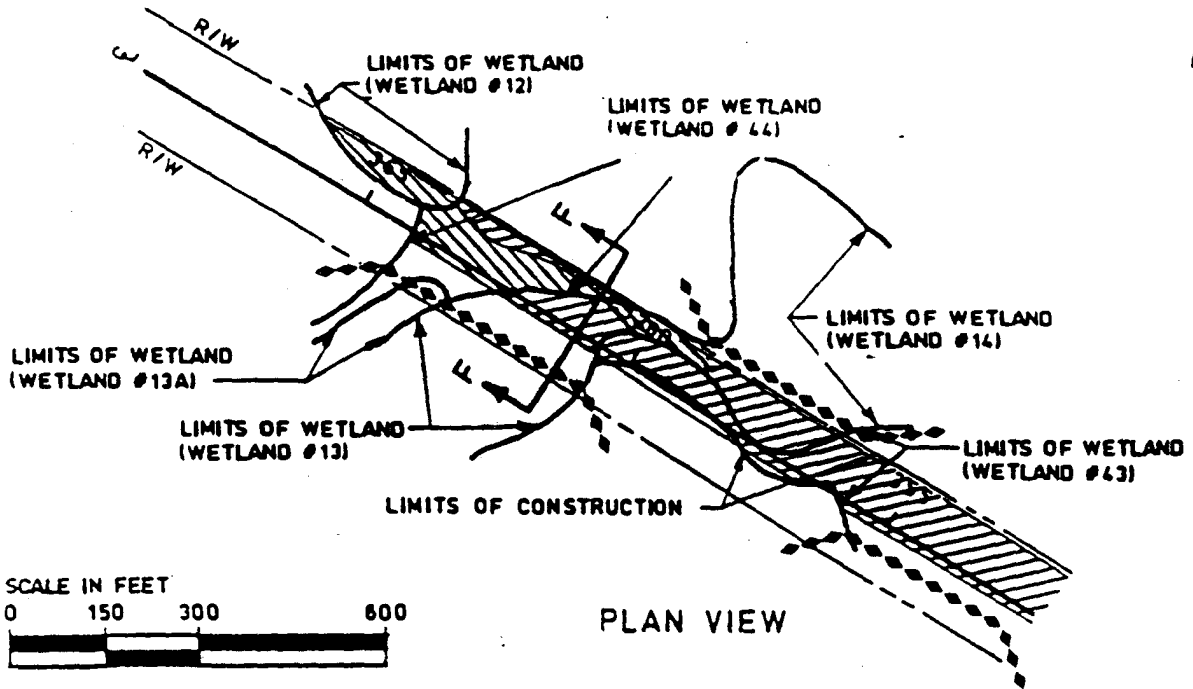
Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 343 + 00
NOVEMBER 1989

REVISED: JULY 1990

NOTE: ◆◆◆ INDICATES TURBIDITY BARRIER LOCATION



Gregory Thomas Hunt
08/08/90

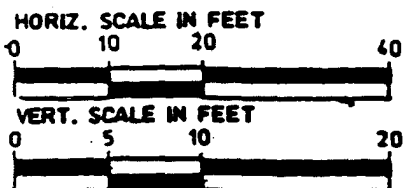
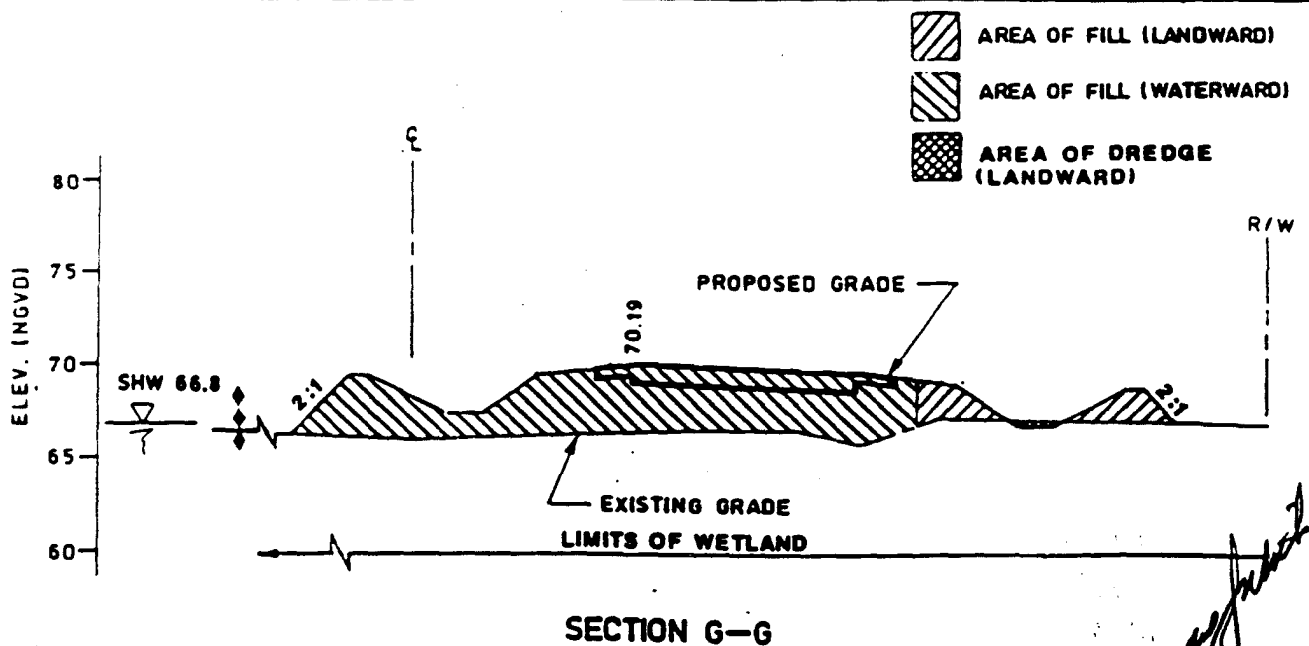
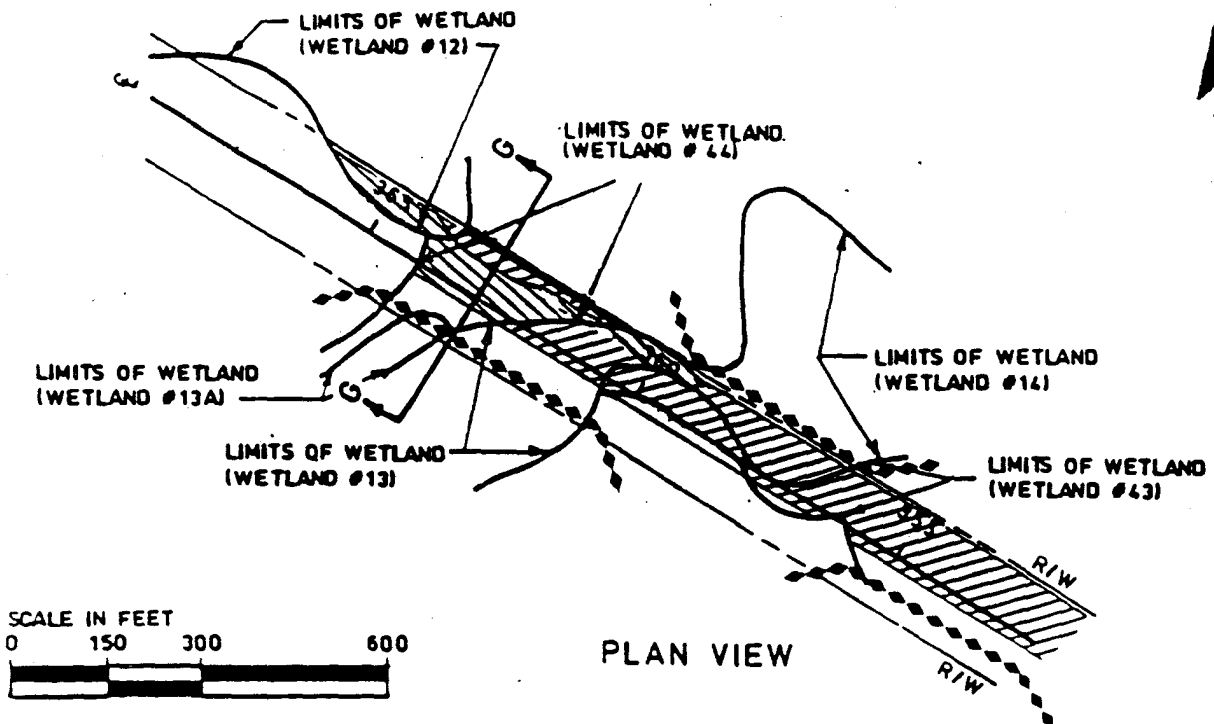
SHEET: 8 OF: 13

Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE
STA. 361 + 00
NOVEMBER 1989
REVISED: JULY 1990

NOTE: ◆◆◆ INDICATES TURBIDITY BARRIER LOCATION



SHEET: 9 OF 13

Greiner, Inc.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

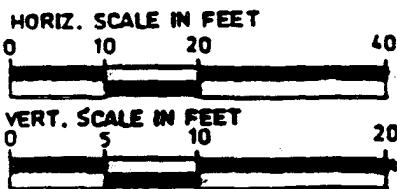
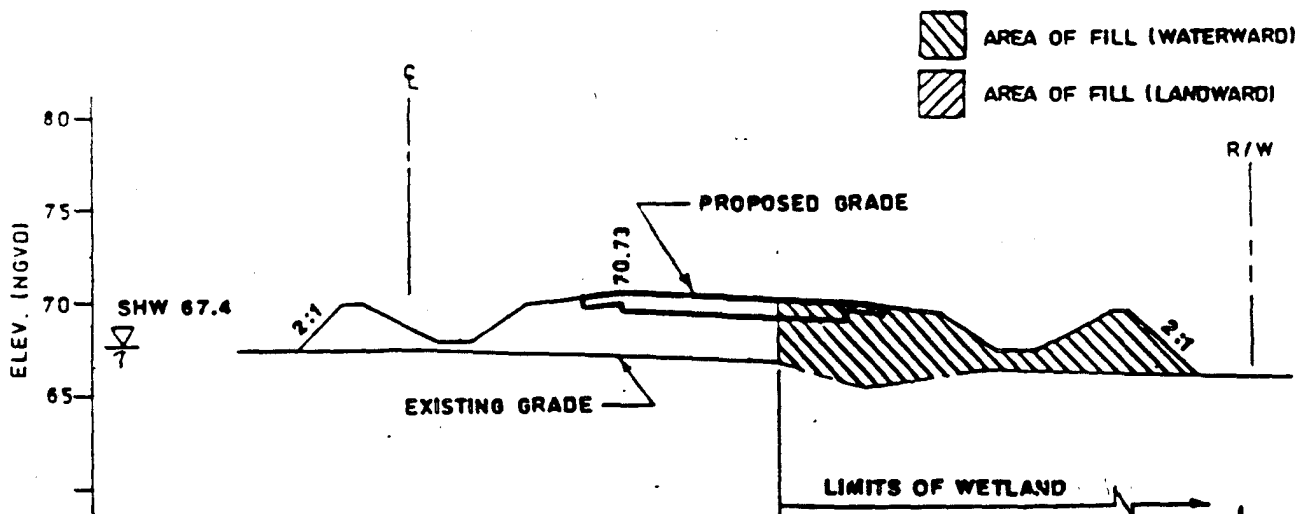
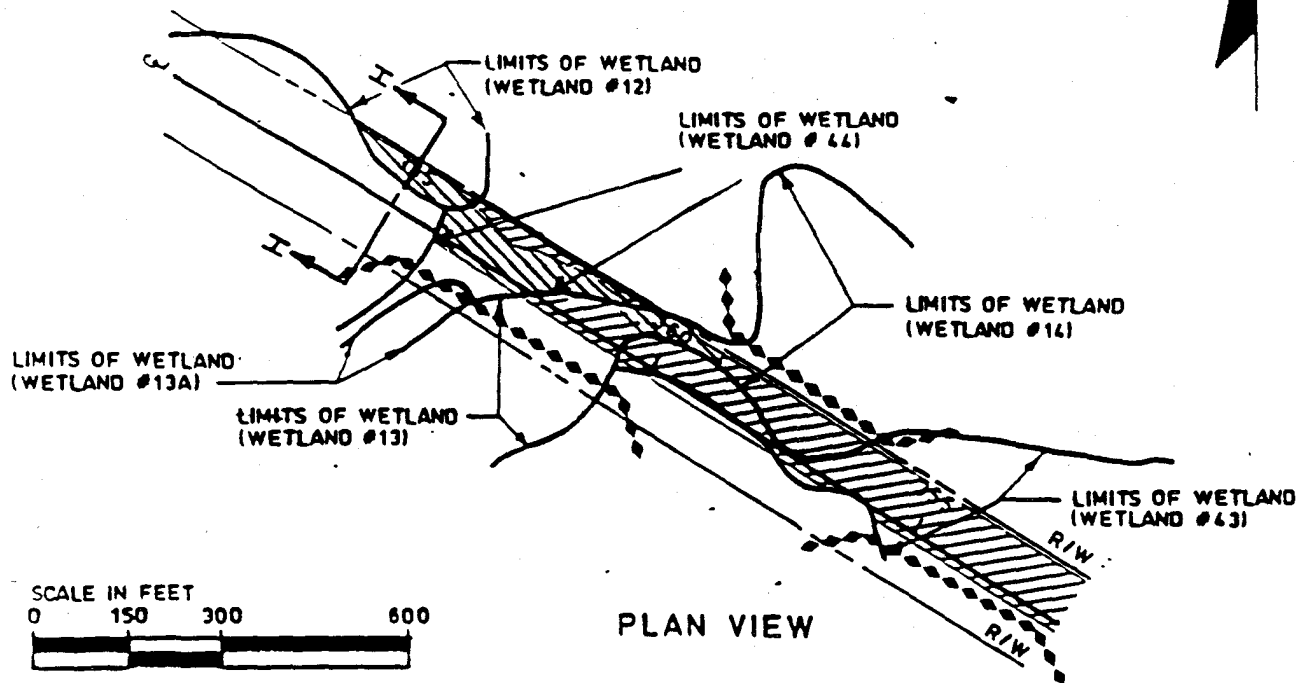
PLAN AND PROFILE

STA. 363 + 00

NOVEMBER 1999

REVISED: JULY 1999

NOTE: ◆◆◆ INDICATES TURBIDITY BARRIER LOCATION



Gregory Thomas Smith
08/00/90

SHEET: 10 OF: 13

Greiner, Inc.
CONSULTING ENGINEERS

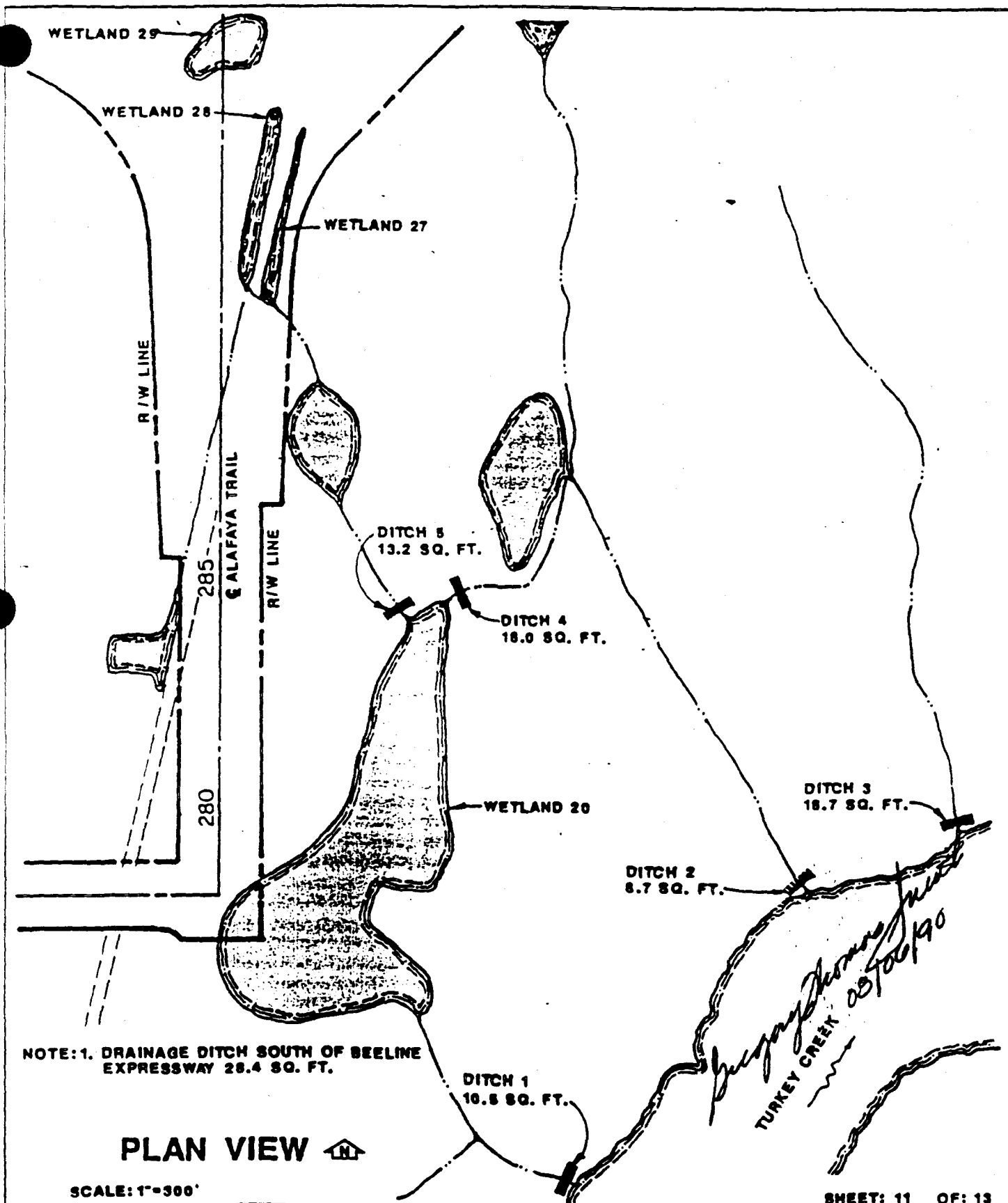
**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN AND PROFILE

STA. 365 + 00

NOVEMBER 1989

REVISED: JULY 1990



SHEET: 11 OF: 13

GREINER, INC.
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE CO., FLORIDA

DITCH CROSS SECTIONAL AREAS

DATE: MAY 1990
REVISED: JULY 1990

DITCH NO. 1



DITCH NO. 2



DITCH NO. 3



DITCH NO. 5



HORIZONTAL AND VERTICAL SCALE, 1"=5'

SHEET: 12 OF: 13

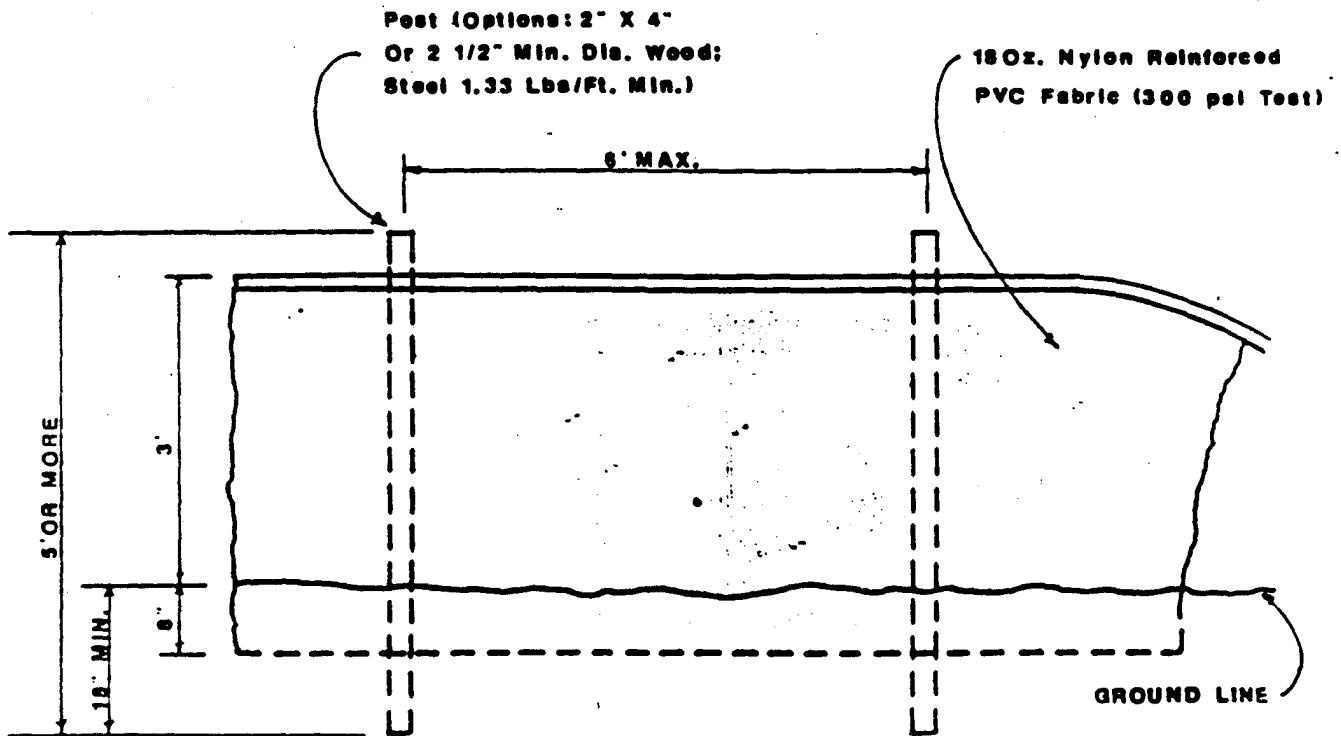
GREINER, INC
CONSULTING ENGINEERS

**ALABAMA TRAIL
EXTENSION**
ORANGE CO., FLORIDA

DITCH CROSS-SECTIONAL AREAS

DATE: MAY 1990
REVISED: JULY 1990

Frederick Thomas Smith
02/06/1990



SOURCE: FLORIDA DEPARTMENT OF TRANSPORTATION -
ROADWAY AND TRAFFIC DESIGN STANDARDS; INDEX # 103

TYPICAL STAKED TURBIDITY BARRIER

SHEET: 13 OF: 13

Greiner, Inc
CONSULTING ENGINEERS

**ALAFAYA TRAIL
EXTENSION**
ORANGE COUNTY, FLORIDA

PLAN VIEW

May 1990
REVISED: JULY 1990

66

7.0 ECONOMIC AND
SOCIAL EFFECTS

7.0 Economic and Social Effects of Plant Construction and Operation

The economic and social effects of plant construction and operation were addressed in the original SCA for the project. For details, refer to Chapter 7 of the original SCA.

8.0 Site and Design Alternatives

This chapter is not applicable because a federal Environmental Impact Statement is not required for the proposed project. See Chapter 8 of DER Form 17-1.211(1) "Instruction Guide for Certification Application: Electrical Power Plant Site, Associated Facilities, and Associated Transmission Lines."

9.0 COORDINATION

9.0 Coordination

Orlando Utilities Commission Government Contacts

FEDERAL

Environmental Protection Agency, Region IV

Atlanta Office - (404) 347-2904

Brian Beals	Chief of the Source Evaluation Unit
Gregg M. Worley	Chemical/Environmental Engineer
Lewis Nagler	Regional Meteorologist

STATE

Public Service Commission - (904) 488-1234

Joe Jenkins	Director of Electric and Gas
Bob Trapp	Assistant Director of Electric and Gas
Jim Dean	Chief of Conservation and System Planning (No longer with PSC)

Department of Community Affairs - (904) 488-2356

Jenny Underwood--Dietzel	Planning Manager
Paul Darst	Planner IV

Department of Environmental Regulation - (904) 488-4805

Bureau of Air Quality Management - (904) 488-1344

Max A. Linn	Meteorologist
Barry Andrews	PE Administrator
Tom Rogers	Meteorologist Environmental Administrator
Pradeep Raval	Engineer

Bureau of Water Resources Management - (904) 488-0130

Trudie D. Bell	Environmental Supervisor
Guy Rodriguez	Environmental Specialist - Wetlands Resource Management

Power Plant Siting - (904) 488-1344

Hamilton (Buck) S. Oven Administrator of Siting Coordination

Office of General Counsel - (904) 488-1344

Richard Donelan Assistant General Counsel

Game and Fresh Water Fish Commission - (904) 488-1960

Doug Baily Assistant Director - Office of Environmental
Services

Perry Oldenburg Deceased

St. Johns River Water Management District - Orlando Office - (407) 894-5423

Dwight Jenkins Hydrologist III

10.0 Appendices

10.1 Federal Permit Applications or Approvals

10.1.1 316 Demonstrations

None required for Stanton 2.

10.1.2 NPDES Applications/Permits

The Stanton Energy Center plant is designed as a zero discharge facility and, therefore, Stanton 1 and the proposed Stanton 2 have no requirement for a federal wastewater discharge permit.

10.1.3 Hazardous Waste Disposal Applications/Permits

Not applicable to this project.

10.1.4 Section 10 or 404 Applications/Permits

The Joint Application for Construction Activities in Waters of the State is included in Subsection 10.6.2.

10.1.5 PSD Applications/Permits

A PSD permit for phased construction of both Stanton 1 and 2 was issued by EPA Region IV during the initial permitting process. An updated BACT analysis is required for Stanton 2 and is included as part of Section 3.4 of this application. In addition, air quality dispersion modeling has been conducted for Stanton 1 and 2. Stanton 2 was modeled at both the emission rate provided in the original application and at the rate proposed as BACT in this application in order to demonstrate a reduced level of air quality impact and compliance with ambient air quality standards and PSD increments. A description of the modeling analysis and results is presented in Section 5.6.

10.1.6 Coastal Zone Management Certification

Not applicable to this project because proposed facilities will not be located in a coastal county.

10.2 Zoning Descriptions

A discussion of the plant site and surrounding area zoning designations is presented in Subsection 2.2.2.2 of the original SCA. The Stanton 2 addition will use only property originally certified for Stanton 1 and ultimate capacity. Zoning in these areas has not changed since the initial land use certification was final on October 20, 1981.

10.3 Land Use Plan Descriptions

Detailed land use descriptions of the plant site, associated corridors, and surrounding areas are presented in Subsection 2.2.2 of the original SCA. The site and associated railroad corridor were certified with regard to land use compatibility by the Governor and Cabinet, with their final order issued on October 20, 1981.

10.4 Existing State Permits

This section is not applicable for the Stanton Unit 2 application because this is a supplemental SCA for a power plant site previously certified for ultimate capacity.

10.5 Monitoring Programs

Several environmental monitoring programs and surveys were conducted during the permitting process for Stanton 1. Measurement/survey programs were conducted for noise, terrestrial ecology, lithology, ground water quality, and air quality. These programs were described in detail in the original SCA. No additional onsite surveys have been conducted for the Stanton 2 permitting process.

10.6 State Permit Applications or Approvals

10.6.1 Joint Application for Permit: Dredge, Fill, Structures

JOINT APPLICATION
DEPARTMENT OF THE ARMY/FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
For Activities in the Waters of the State of Florida

CORPS APPLICATION NUMBER (official use only)

DER APPLICATION NUMBER (official use only)

1. APPLICANT'S NAME AND ADDRESS

O	R	L	A	N	D	O	U	T	I	L	I	T	I	E	S	C	O	M	M	I	S	S	I	O	N
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NAME

5	0	0	S	o	u	t	h	O	r	a	n	g	e	A	v	e	n	u	e
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

STREET

O	r	l	a	n	d	o	F	L	3	2	8	0	1						
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--

CITY

STATE ZIP

TELEPHONE NUMBER (Day) (407) 423-9100

(Night) ()

2. Name, address, zip code and title of applicant's authorized agent for permit application coordination

Orlando Utilities Commission

Thomas B. Tart, General Counsel

500 South Orange Avenue

Orlando, Florida 32801

Telephone Number (407) 423-9123

3. NAME OF WATERWAY AT LOCATION OF THE ACTIVITY.

Unnamed wetland areas

DER Code. _____

W/W Code _____

4. LOCATION WHERE PROPOSED ACTIVITY EXISTS OR WILL OCCUR.

Stanton Energy Center

13, 14, 23, 24

23S

31E

(see attached Figures)

18, 19

23S

32E

Street, road or other descriptive location

Section

Township

Range

Southeast Orlando (Rural)

28° 29'

81° 10'

Incorporated city or town

Latitude

Longitude

Orange

Tax Assessors Description: (if known)

County

N/A

N/A

N/A

Map No.

Subdiv. No.

Lot No.

5. NAME AND ADDRESS INCLUDING ZIP CODE OF ADJOINING PROPERTY OWNERS WHOSE PROPERTY ALSO ADJOINS THE WATERWAY.

Not required; see section 6.1.8.2 of FDER Form 17-1.211(1).

6. PROPOSED USE

Private Single Dwelling []

Private Multi-dwelling []

Public []

Commercial []

Other [X] (Explain in remarks) Electric transmission

line and access roads. Attached Project Description.

7. DESCRIPTION OF PROJECT (Use additional sheets, if necessary) See attached sheet for description,

- A. Structures: 1. New work ☒ Maintenance of existing structure ☐
2. Piers, docks and use: Commercial ☐ Private ☐ Public ☐

- a. Single pier ☐ length _____ width _____
b. Number of piers ☐ length _____ width _____
c. Number of boat slips ☐ length _____ width _____
d. Number of finger piers ☐ length _____ width _____
e. Other (please describe) _____

3. Seawalls, revetments, bulkheads: length _____
a. Type: Vertical ☐ Riprap ☐ Slope: _____ Horizontal: _____ Vertical _____
b. Material to be used _____

4. Other type of structure _____
Construction and maintenance of transmission line, associated access road, and alternate access road.

- B. Excavation or Dredging: New Work ☒ Maintenance work ☐ Total acreage involved 4.0

1. Access Channel ☐ or Canal ☐ Length _____ ft. Width _____ ft. Depth _____ ft.
2. Boat Basin ☐ or Boat Slip ☐ Length _____ ft. Width _____ ft. Depth _____ ft.
Foundation excavation
3. Other in wetlands _____ Length _____ ft. Width _____ ft. Depth _____ ft.
4. Cubic yards: Total for project 220

- a. Later cyd. waterward/ Later cyd. landward of ordinary/mean high water
b. Type of material to be excavated/dredged Existing muck and soil

C. Fill:

1. Amount of material

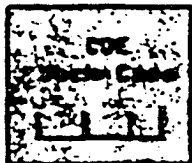
- a. Cubic yards placed waterward of ordinary/mean high water Later
b. Cubic yards placed landward of ordinary/mean high water Later
c. Total acreage to be filled 6.2 Total acreage of wetlands involved Later

2. Containment for fill

- a. Dikes ☐ b. Seawall, etc. ☐ c. Other (please explain) Geo-grid will be layered in fill to provide stabilization. Roadway will revegetate to prevent erosion.

3. Type of fill material to be used Clean sand for roadway, select backfill for wetland areas.

4. Source of fill material to be used Commercial sources.



DER
Code
253
403

8. Date activity is proposed to commence Later ; to be completed Later.

9. Previous permits for this project have been DER # _____ Corps # _____

A. Denied (date) None _____

B. Issued (date) _____

C. Other (please explain) _____

Differentiate between existing work and proposed work on the drawings.

10. Remarks (See Instruction Pamphlet for additional information required for all applications and certain activities. Use additional sheets if necessary.)

See attached sheets.

11. AFFIDAVIT OF OWNERSHIP OR CONTROL of the property on which the proposed project is to be undertaken

I CERTIFY THAT: (please check appropriate space)

[X] I am the record owner, lessee, or record easement holder of the property described below.

[] I am not the record owner, lessee, or record easement holder of the property described below, but I will have before undertaking the proposed work the requisite property interest. (Please explain what the interest will be and how it will be acquired.)

LEGAL DESCRIPTION OF PROPERTY SITUATED IN Orange COUNTY, FLORIDA
(Use additional sheets if necessary)

Later

Thomas Brogden Jant
Signature

General Counsel, OUC

Sworn and subscribed before me at Orange County, Florida, this 12th day of March

Patricia A. Gillespie

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP. AUG. 25, 1994
BONDED THRU GENERAL INS. BND.

My commission expires:

12. Application is made for a permit(s) to authorize the activities described herein.

- A. I authorize the agent listed in Item #2 to negotiate modifications or revisions, when necessary, and accept or assent to any stipulations on my behalf.
- B. I understand I may have to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable State Water Quality Standards or other environmental standards both before construction and after the project is completed.
- C. In addition, I agree to provide entry to the project site for inspectors with proper identification or documents as required by law from the environmental agencies for the purpose of making preliminary analyses of the site. Further, I agree to provide entry to the project site for such inspectors to monitor permitted work if a permit is granted.
- D. Further, I hereby acknowledge the obligation and responsibility for obtaining all of the required state, federal or local permits before commencement of construction activities. I also understand that before commencement of this proposed project I must be granted separate permits or authorizations from the U.S. Corps of Engineers, the U.S. Coast Guard, the Department of Environmental Regulation, and the Department of Natural Resources, as necessary.

I CERTIFY that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

Thomas Brogden Jant

Signature of Applicant
General Counsel, OUC

3/12/91

Date

NOTE: THIS APPLICATION MUST BE SIGNED by the person who desires to undertake the proposed activity or by an authorized agent. If an agent is applying on behalf of the applicant, attach proof of authority for the agent to sign and bind the applicant.

18 U.S.C. Section 1001 provides that: Whoever in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

NOTICE TO PERMIT APPLICANTS

This is a Joint Application; it is NOT a Joint Permit!

You Must Obtain All Required Local, State, and Federal

Authorizations or Permits Before Commencing Work!!

For your information: Section 370.034, Florida Statutes, requires that all dredge and fill equipment owned, used, leased, rented or operated in the state shall be registered with the Department of Natural Resources. Before selecting your contractor or equipment you may wish to determine if this requirement has been met. For further information, contact the Chief of the Bureau of Licenses and Motorboat Registration, Department of Natural Resources, 3900 Commonwealth Boulevard, Tallahassee, Florida 32303. Telephone Number 904/488-1195. THIS IS NOT A REQUIREMENT FOR A PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL REGULATION.

Item 7 -- Description of Project

A new 230 kV transmission line will be required to integrate the power from Stanton 2 into the Orlando Utilities Commission (OUC) Transmission System. The proposed Stanton-Mud Lake 230 kV transmission line will originate at the existing Stanton Energy Center substation and will interconnect into the existing (after relocation) OUC Transmission Line 7-0615 near Mud Lake, following the existing OUC rail line corridor. There will also be an associated unpaved access road installed in portions of the corridor for transmission line construction and maintenance. Finally, an alternate site access road will be constructed in the rail line corridor south from the plant site to the Bee Line Expressway.

The new Stanton-Mud Lake Transmission Line will be approximately 14 miles long and will be constructed totally within the existing OUC railroad/utility corridor from the Stanton Energy Center plant to its interconnection with existing Transmission Line 7-0615. Figure 6.1-1 of the SCA shows the transmission line and alternate access road routing within the existing corridor. The corridor varies in width along its route from 260 feet to 400 feet. The location of the proposed transmission line and access road routes is shown in further detail on Figures 6.1-2, 6.1-3, and 6.1-4 of the SCA. Existing 115 kV or longer transmission lines in the area are also shown on Figure 6.1-2.

Additional details with regard to the location, layout, and design of the proposed transmission line and access roads are included in Subsections 6.1.2 and 6.1.3 of the SCA.

US Army Corps of Engineers approval for this project is requested under the Nationwide Permit Provision Number 26.

Item 10 -- Additional Information

The following additional information is provided as requested under Item 10 of the Joint Application Form.

Need. The proposed transmission line is necessary to connect the energy produced by Stanton 2 with OUC's power system. Access roads are needed to install and maintain the transmission line facilities. The new alternate site access road is necessary to provide adequate emergency access to the site.

Alternatives. A study was made of the OUC electric transmission system, and it was concluded that an interconnection of Stanton 2 with the Taft Substation would function very well. Other possible interconnections would not be as functional or desirable. The selected route also is currently owned by OUC, and no additional land acquisition will be required.

Waterway Width. The impacts of the proposed transmission line with regard to wetland clearing, dredging, and filling are summarized in Table 6.1-1 of the SCA. The lengths and acreage of affected wetlands are provided.

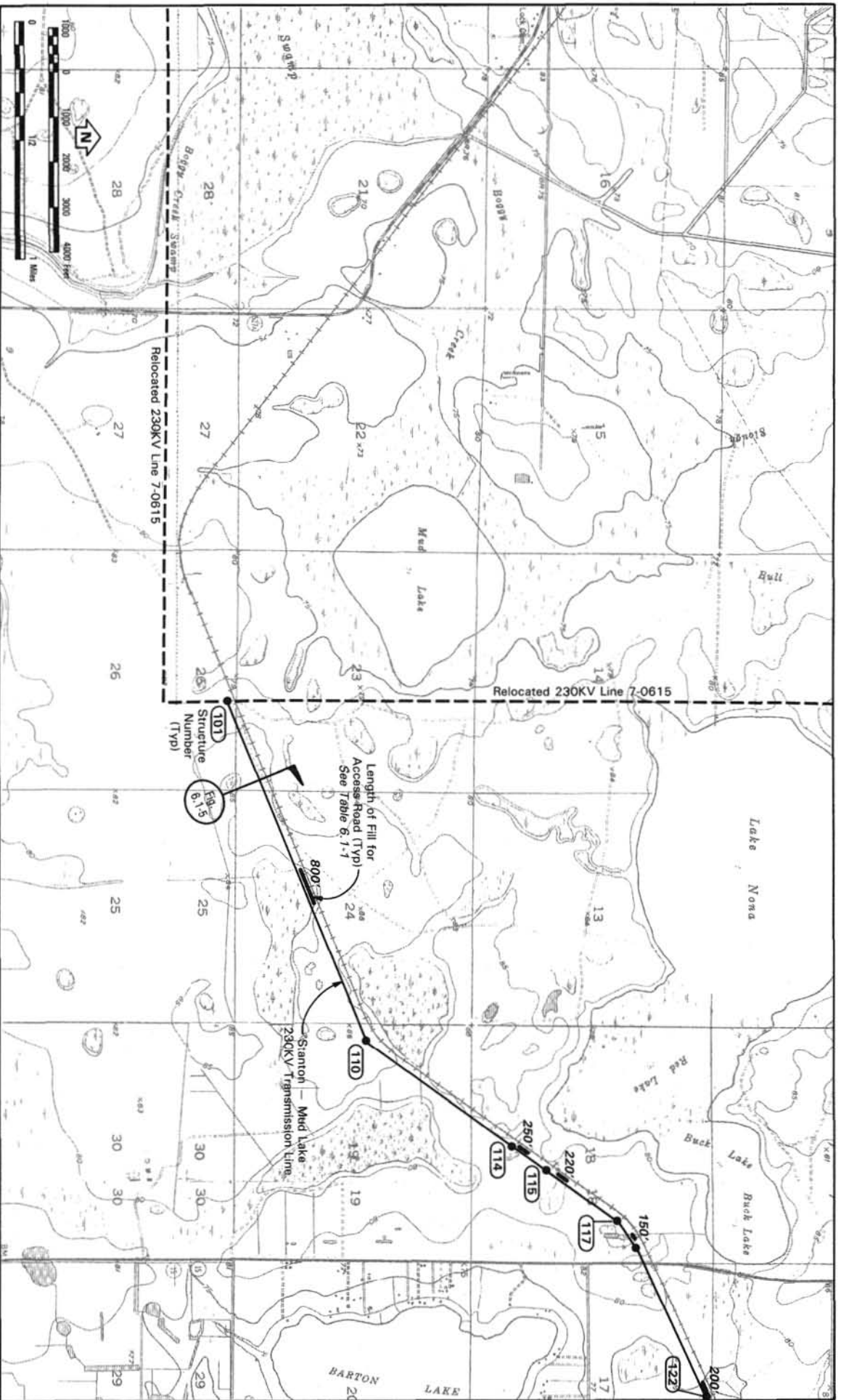
Protection of State Water. Culverts will be placed as necessary to ensure that sheet flow and runoff is not compromised by the project. Turbidity screens will be placed and maintained prior to and during construction to protect water quality against erosion. Access roads and working surfaces will be allowed to revegetate to prevent erosion after construction is complete.

Dredging. Wetlands dredging will be limited to areas identified for the placement of foundations for tower structures. Material removed will be spread and compacted on access roads or on adjacent upland areas.

Filling. Fill to be used for access roads and working surface construction will consist of clean sand purchased from a commercial source. Disruption of the aquatic ecosystem will be prevented by means stated in Protection of State Waters.

Construction. Transmission line and access roads will be as detailed on drawings included in Section 6.1 of this application.

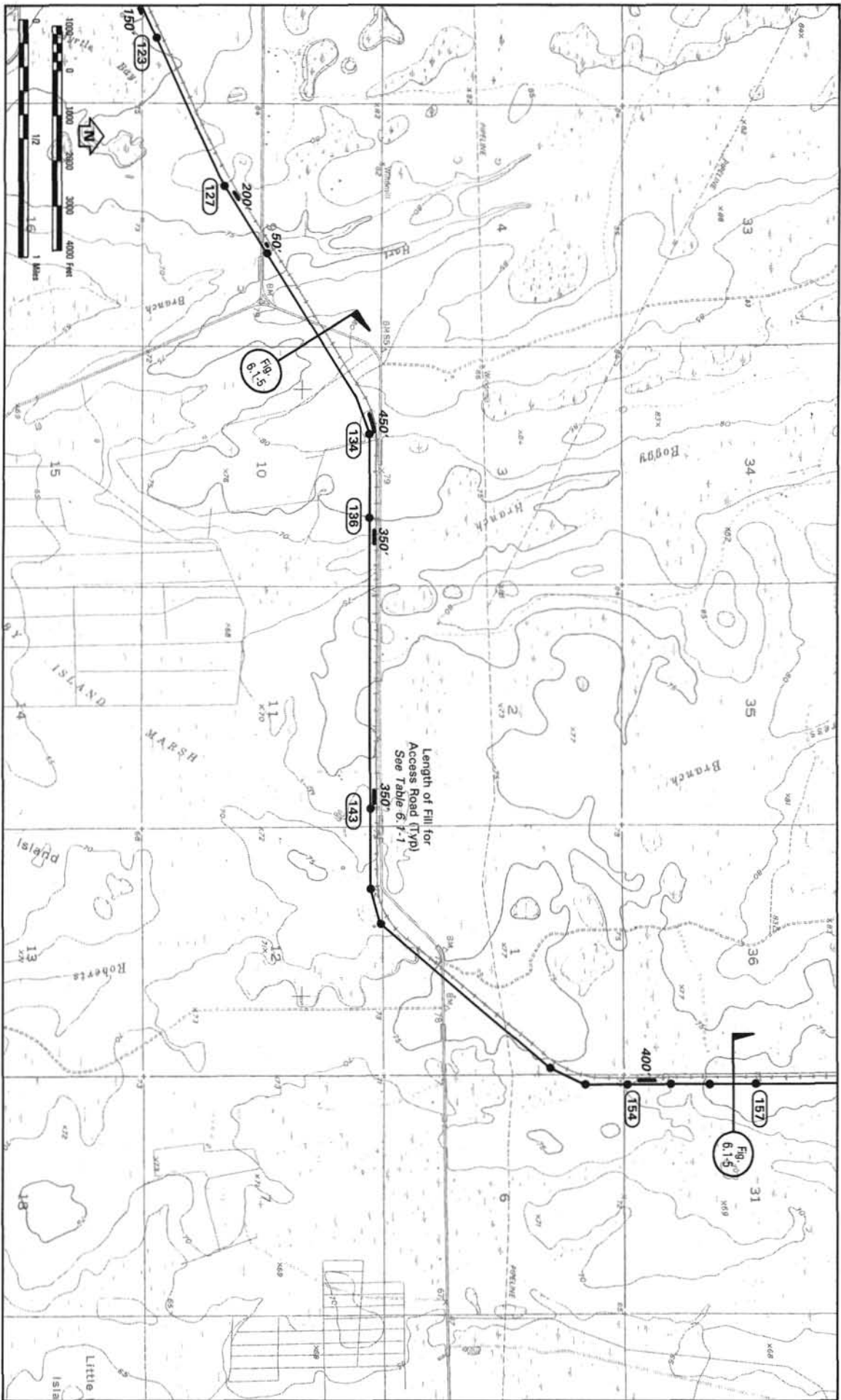
Hazardous Materials. Not applicable.



Base Map Source: USGS, Pine Castle, Narcoossee NW,
St. Cloud North, and Narcoossee, FL Quadrangles

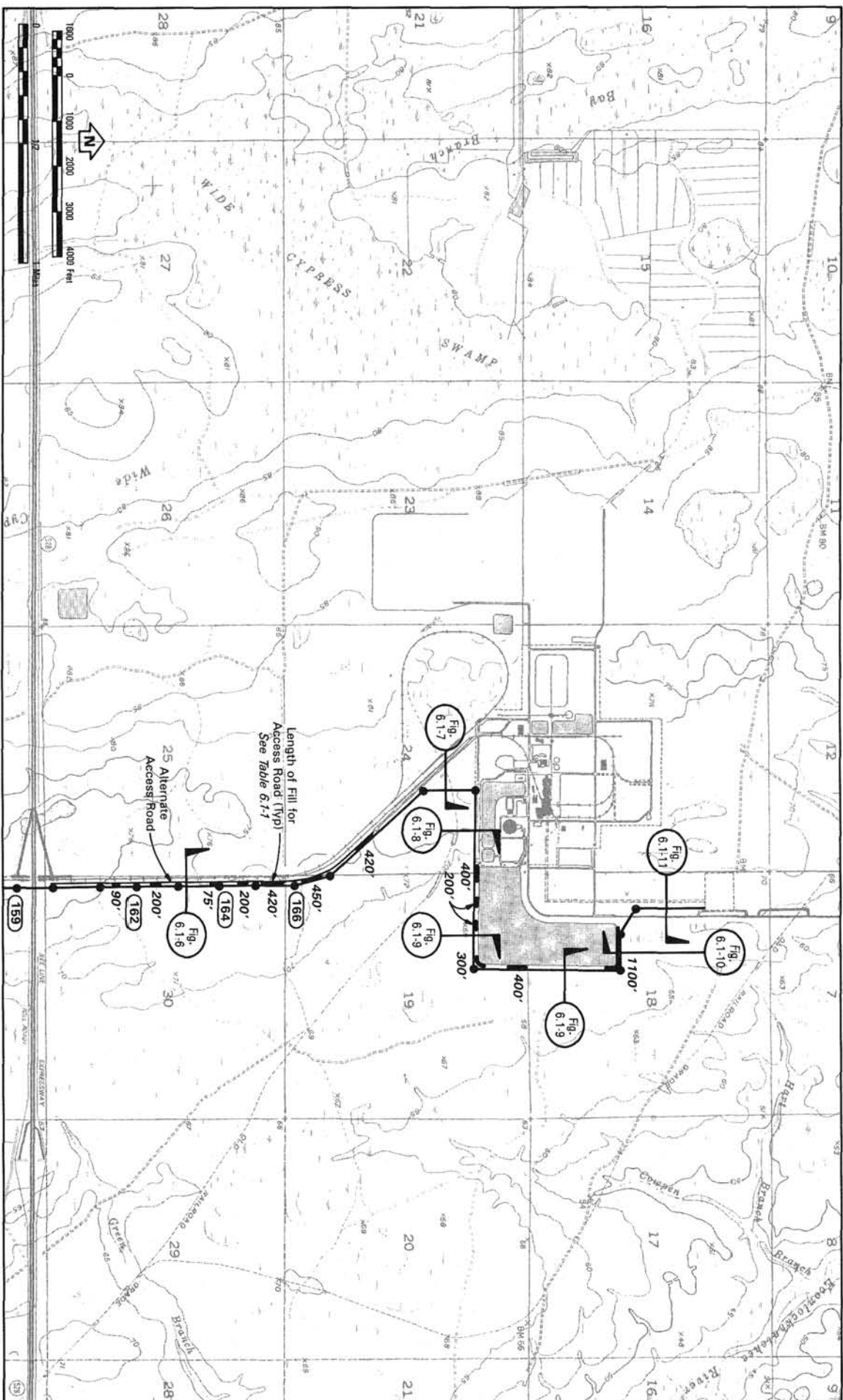
TRANSMISSION LINE CORRIDOR LOCATION — WEST

Figure 6.1-2

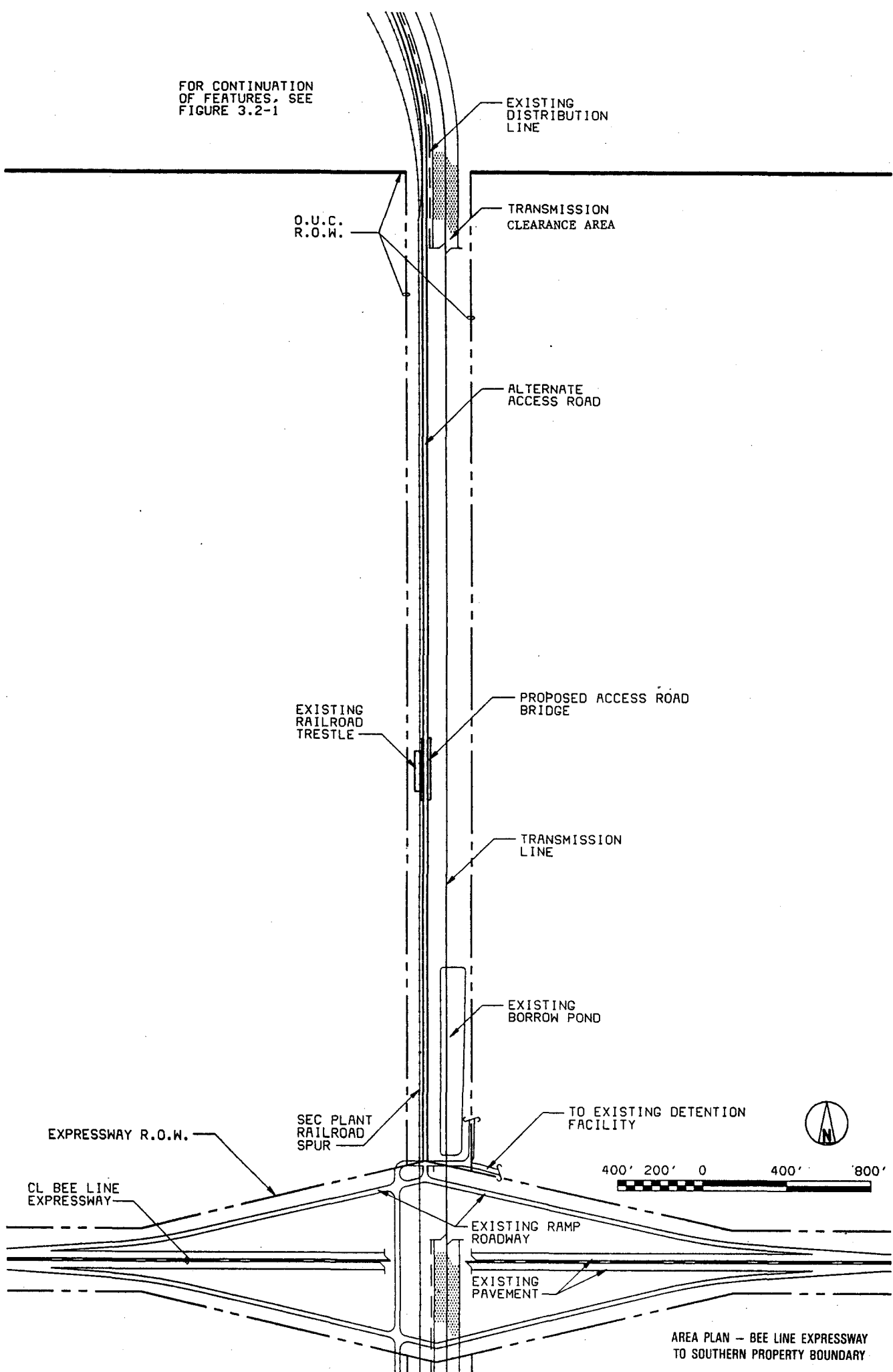


Base Map Source: USGS,
Narcoossee NW, FL Quadrangle

TRANSMISSION LINE CORRIDOR LOCATION — CENTRAL
Figure 6.1-3



FOR CONTINUATION
OF FEATURES, SEE
FIGURE 3.2-1



AREA PLAN - BEE LINE EXPRESSWAY
TO SOUTHERN PROPERTY BOUNDARY

10.6.2 Florida Ground Water Monitoring Plan Approval

The Stanton Energy Center has an approved Florida Ground Water Monitoring Plan. This plan was developed to comply with conditions of the Unit 1 site certification process.

Monitoring wells are located upgradient and downgradient of the Recycle Basin, the Coal Storage Area, and the Combustion Waste Storage Area. Because of the high quality of the makeup water supply, water in the Makeup Water Supply Pond is monitored directly to ensure compliance with applicable ground water standards.

Ground water monitoring in accordance with the existing approved Florida Ground Water Monitoring Plan will continue during the construction and operation of Stanton Unit 2.

10.6.3 *Application for Radioactive Materials License*

Radioactive devices will be used to monitor levels of bulk materials, liquids, and combustion wastes. Coal silos, main steam line moisture collection pots, and fly ash hoppers under the electrostatic precipitators are the principal system applications of these devices. The radioactive materials used in these devices are regulated by the Florida Department of Health and Rehabilitative Services. The application form for licenses for radioactive materials follows.



STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
OFFICE OF RADIATION CONTROL
RADIOACTIVE MATERIALS PROGRAM
APPLICATION FOR RADIOACTIVE MATERIALS LICENSE



NON-HUMAN USE

INSTRUCTIONS - Complete items 1 through 15 as applicable. Use supplemental sheets where necessary. Item 15 must be completed on all applications. **Mail three copies to:** Department of HRS, Office of Radiation Control, Radioactive Materials Program, 1317 Winewood Boulevard, Tallahassee, FL 32399-0700.

1.a. NAME AND MAILING ADDRESS OF APPLICANT
(institution, firm, company, person, etc.) **INCLUDE ZIP CODE.**

Orlando Utilities Commission
500 South Orange Avenue
P.O. Box 3193
Orlando, Florida 32801

1.b. STREET ADDRESS(ES) AT WHICH RADIOACTIVE MATERIAL WILL BE USED, IF DIFFERENT FROM 1.a. INCLUDE ZIP CODE.

Curtis H. Stanton Energy Center
Orange County, Florida

TELEPHONE NO: Area Code (407) 423-9100

2.a. LICENSE FEE CATAGORY:

3L(1)

b. LICENSE FEE ENCLOSED: \$ N/A

3. THIS IS AN APPLICATION FOR (Check and complete appropriate items):

☒ **a. NEW LICENSE**

☐ **b. AMENDMENT TO LICENSE NO. _____**

☐ **c. RENEWAL OF LICENSE NO. _____**

4. INDIVIDUAL USERS: Name individuals who will use or directly supervise use of radioactive material.

To be named later

5. RADIATION SAFETY OFFICER (RSO): Name of person designated.

To be named later

6. TRAINING AND EXPERIENCE IN RADIATION SAFETY. Later

A. FORMAL TRAINING IN RADIATION SAFETY: Attach a resumé for each individual named in Items 4 and 5. Describe individual's formal training in principles and practices of radiation protection; radioactivity measurement standardization and monitoring techniques and the use of instruments; mathematics and calculations basic to the use and measurement of radioactivity; and biological effects of radiation. Include the name of the person or institution providing the training, duration of training and when training was received, or attach a copy of a training certificate from an approved training course where applicable.

B. EXPERIENCE: Attach a resumé for each individual named in Items 4 and 5. Describe individual's work experience with radiation, including where experience was obtained. Include a list of radioisotopes and the maximum activity of each use. Work experience or on-the-job training should be commensurate with the proposed use.

7. RADIOACTIVE MATERIAL.(a) ELEMENT AND
MASS NUMBER(b) CHEMICAL AND/OR PHYSICAL
FORM (If sealed sources, include
manufacturer's name and model number).(c) MAXIMUM AMOUNT TO BE POS-
SESSED AT ANY ONE TIME (If seal-
ed source(s) also state number of sources
and maximum activity per source).

Later

8. DESCRIBE PURPOSE FOR WHICH RADIOACTIVE MATERIALS LISTED IN ITEM 7, ABOVE, WILL BE USED.
(If radioactive material is in the form of a sealed source, include the manufacturer and model number of the storage container and/or device in which the source will be stored and/or used.)

Later

9. RADIATION DETECTION INSTRUMENTS.

TYPE OF INSTRUMENTS (Include manufacturer and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	USE (Monitoring, surveying, measuring)
Later				

10. CALIBRATION OF INSTRUMENTS LISTED ABOVE.☐ a. CALIBRATED BY SERVICE COMPANYState the name, address and license number of the
service company and the frequency of calibration
of the device.

Later

☐ b. CALIBRATED BY APPLICANTAttach a separate sheet describing procedures, frequency
and standards used for calibrating instruments.**11. PERSONNEL MONITORING DEVICES. Complete Items a, b, c and d.**

Later

a. ☐ Film☐ TLDb. ☐ Whole Body☐ Extremityc. Radiation Detected: ☐ Beta☐ Gamma☐ Neutron

d. SUPPLIER _____

FREQUENCY OF EXCHANGE _____

2. **FACILITIES AND EQUIPMENT.** Describe facilities where radioactive material, including waste, will be used and/or stored. **Attach an annotated diagram of the areas of use and/or storage, including adjacent areas.** Describe equipment such as, remote handling devices, storage containers, shielding, fume hoods, etc.

Later

3. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used, including general radiation safety procedures, emergency procedures and bioassay procedures. If the application includes a request for sealed sources, submit leak testing procedures; or if leak testing will be performed using a leak test kit, specify the manufacturer and model number of the kit and the name and radioactive materials license number of the individuals who will perform the analysis.

Later

4. **WASTE DISPOSAL.** Describe the procedures for handling, storing and disposing of radioactive wastes (solid, liquid and/or gas). Name the commercial waste disposal service employed, if applicable. If sealed sources and/or devices will be returned to the manufacturer, so state.

Later

5. **CERTIFICATE.**

The applicant and any official executing this certificate on behalf of the applicant named in Item 1, certify that this application has been prepared in accordance with Chapter 10D-91, Florida Administrative Code, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

Certifying Official (Signature)

Name (Typed or Printed)

Title

Date

WARNING: KNOWINGLY MAKING FALSE STATEMENTS TO A PUBLIC SERVANT IS A VIOLATION OF SECTION 837.06, FLORIDA STATUTES, AND IS PUNISHABLE BY FINE OR IMPRISONMENT.

10.7 Local Permit Applications or Approvals

10.7.1 *St. Johns River Water Management District Water Use Permit Application*



CONSUMPTIVE USE PERMIT APPLICATION

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
RESOURCE MANAGEMENT DEPARTMENT
RECORDS DIVISION
P.O. BOX 1429
PALATKA, FLORIDA 32978-1429

APPLICATION NO. _____
DATE RECEIVED _____
COUNTY _____
ASSIGNED REVIEWER _____
REVIEW COMPLETION DATE _____
PROJECTED BOARD DATE _____

Please type or print with BLACK ball point pen. Read ALL instructions on the back of this sheet before completing application.
Complete necessary data sheets attached. PRESS HARD!

APPLICATION IS FOR: NEW USE ☐ EXISTING USE ☐ MODIFICATION OF EXISTING PERMIT ☒ RENEWAL ☐

OWNER	NAME OF OWNER	LAST		FIRST		
	ORLANDO UTILITIES COMMISSION					
	ADDRESS	Box 31193, 500 South Orange Avenue				
	CITY	Orlando	COUNTY	Orange		
APPLICANT	NAME OF APPLICANT	LAST		FIRST		
	Tart Thomas B.					
	ADDRESS	500 South Orange Avenue				
	CITY	Orlando	COUNTY	Orange		
AGENT (IF APPLICABLE)	NAME OF AGENT	LAST		FIRST		
	ADDRESS					
	CITY		COUNTY			
CONSULTANT, OR ENGINEER (IF APPLICABLE)	NAME OF FIRM	Black & Veatch				
	NAME OF FIRM CONTACT	LAST		FIRST		
	Day Steven M.					
	ADDRESS	8400 Ward Parkway				
SITE LOCATION	U.S.G.S. TOPO QUAD MAP	Narcoossee NW Quadrangle				
	COUNTY	Orange	TOTAL ACREAGE	328.0		
	SECTION		TOWNSHIP		RANGE	See attached
	USE	AESTHETIC _____ % AGRICULTURAL _____ % COOLING AND AIR CONDITIONING _____ % DEWATERING _____ % DIVERSION AND IMPOUNDMENT INTO NON-DISTRICT FACILITIES _____ % ESSENTIAL _____ % FREEZE PROTECTION _____ % GOLF COURSE _____ % RECREATION AREA _____ % HOUSEHOLD TYPE _____ % LIVESTOCK _____ % NAVIGATIONAL _____ % NURSERY _____ % POWER PRODUCTION <u>X</u> % COMMERCIAL AND INDUSTRIAL _____ % WATER BASED RECREATION _____ % SOIL FLOODING _____ % URBAN LANDSCAPE IRRIGATION _____ % WATER UTILITY _____ %				
MODIFICATION OR RENEWAL	INCHES PER YEAR <u>N/A</u> MILLION GALLONS PER YEAR <u>321 (2 Units)</u> MILLION GALLONS PER DAY (AVERAGE) <u>0.88 (2 Units)</u> MILLION GALLONS PER DAY (MAXIMUM) <u>1.25 (2 Units)</u>					
	PLEASE PROVIDE INFORMATION IF APPLICATION IS FOR MODIFICATION OR RENEWAL OF AN EXISTING PERMIT: PERMIT NO. _____ OWNER'S NAME <u>Orlando Utilities Commission</u> DESCRIBE MODIFICATION <u>Increase pumping rate from existing two wells from 0.44 mgd to 0.88 mgd for additional power generation unit at Stanton Energy Center.</u>					

In compliance with the provisions of Chapter 373, Florida Statutes, 1971 and applicable rules and regulations of St. Johns River Water Management District, application is hereby made for a permit as identified above, and in accordance with support data and incidental information filed with this application and made a part thereof.

Thomas B. Tart

APPLICANT'S NAME (Please Print)

Thomas B. Tart
General Counsel, OUC
DATE 3/12/91

If person other than applicant has completed this form, that person certifies by his signature below that he is acting as an authorized agent of the applicant and his signature will be certification that he is in fact the authorized agent.

AGENT'S NAME (Please Print)

AGENT'S SIGNATURE

DATE

Site Location

Section 13, 14, 24, 28
Section 18, 19

Township T23S
Township T23S

Range R31E
Range R32E

SUMMARY DATA SHEET

Complete applicable sections only. Type or print legibly.
Attach additional sheets if space provided below is not sufficient.

EXISTING SOURCE(S) OF WATER INFORMATION

GROUND WATER

Well number	Open Hole Diameter	Casing Diameter	Total Depth	Casing Depth	Average Withdrawal	Flowing* or Pumped	Pump Capacity or Flow Rate	Source Aquifer (if known)	Use
PW-1	11 in	12 in	530 ft	240 ft	140 gpm	Pumped	2000 gpm	Floridan	Industrial
PW-2	11 in	12 in	505 ft	243 ft	140 gpm	Pumped	2000 gpm	Floridan	Industrial
	in	in	ft	ft	gpm		gpm		

*Flowing wells must be equipped with a working valve, per Chapter 373.206, Florida Statutes.

SURFACE WATER

Source number	Pump capacity	Average withdrawal	Contingent property	Impounded area	Name of water source	Use
Not	gpm	gpm	acres	acres		
Applicable	gpm	gpm	acres	acres		
	gpm	gpm	acres	acres		

PROPOSED SOURCE(S) OF WATER INFORMATION

GROUND WATER

Well number	Open Hole Diameter	Casing Diameter	Total Depth	Casing Depth	Average Withdrawal	Flowing or Pumped	Pump Capacity or flow rate	Source Aquifer	Use
PW-1	11 in	12 in	530 ft	240 ft	305 gpm	Pumped	2000 gpm	Floridan	Industrial
PW-2	11 in	12 in	505 ft	243 ft	305 gpm	Pumped	2000 gpm	Floridan	Industrial
	in	in	ft	ft	gpm		gpm		

SURFACE WATER

Source Number	Pump capacity	Average withdrawal	Contingent property	Impounded area	Name of water source	Use
Not	gpm	gpm	acres	acres		
Applicable	gpm	gpm	acres	acres		
	gpm	gpm	acres	acres		

If application is for an initial permit, state the date upon which the use commenced or is planned to commence
No additional wells are required.

If modification or renewal, state amount of additional water applied for N/A inches per year

161 million gallons per year., additional for Unit 2.

Describe in detail reason(s) for request for additional water and/or sources:

Orlando Utilities Commission Stanton Energy Center is currently producing 440 MW (net) of electricity from Unit 1. This application is a request for additional groundwater for the proposed 440 MW (net) Unit 2 addition. For a more detailed description of water use see Section 3.5, Plant Water Use.

Attach a list of adjacent property owners as prescribed by S.4.4 of the "Applicant's Handbook, Chapter 40C-2, F.A.C."

COMMERCIAL/INDUSTRIAL TYPE USES
SUPPLEMENTARY DATA SHEET

Complete the appropriate sections only. Type or print legibly.
Attach additional sheets if space provided below is not sufficient.

Area owned at withdrawal site 3280 acres.

Type of business Power Generation. The Stanton Energy Center has one 440 MW (net) unit and is proposing building a second 440 MW (net) unit.

Specific use(s) of water Well water will be used for potable water, general plant services, flue gas scrubber and boiler makeup. For a more detailed description see SCA Section 3.5, Plant Water Use.

Average daily use last service year 0.40 MGD

Maximum daily use last service year 0.72 MGD

Number of days per week when used 7 days

Months of year used January through December

Proposed average daily use 0.88 MGD in 1996 (year)

Proposed maximum daily use 1.25 MGD in 1996 (year)

Reason for any increase in use Currently permitted 0.44 mgd will increase to 0.88 mgd with the addition of Stanton Unit 2.

Average amount of wastewater disposed per day None MGD

Maximum amount of wastewater disposed per day None MGD

Method of treatment _____

Disposal On site Off site

If treatment or disposal occurs off site, name treatment facility _____

If disposal takes place on site, describe in detail Well water treatment process wastewater is reused as scrubber additive and scrubber makeup water. None is discharged.

Is wastewater quality monitored? yes no

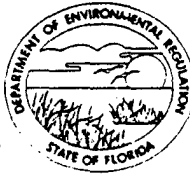
Attach any available water quality data on supply water and wastewater. Attached

Explain water conservation measures currently implemented or planned for implementation in the near future Plant is zero discharge and all wastewaters from plant processes are reused and therefore consumptive use of well water is minimized.

Sheets 4 and 5 of 6 are not applicable to this application. Sheet 6 of 6 requests location information. Refer to Figure 2.1-1 of the original SCA for the plant site location, Figure 3.2-1 of this SCA for the location of the existing onsite wells, and Figure 2.3-1 of this SCA for the location of other wells in the plant vicinity.

10.7.2 *Application to Construct a Public Drinking Water System*

Additional distribution systems will be necessary for all Stanton 2 facilities provided with potable water. A generic application form for construction of such distribution facilities follows this subsection. Completed forms for all applicable distribution systems will be provided as detailed design of the Stanton 2 project proceeds.



State of Florida
Department of Environmental Regulation

Application to Construct a Public Drinking Water System

INSTRUCTIONS: All of the application forms, including engineering plans and specifications, must be completed and submitted. For construction of facilities consisting solely of pumping and disinfection, Parts A, B, C, D, and E 1 and 2, (d) through (f), as well as engineering plans and specifications, must be completed and submitted. When using this form for distribution systems alone, only Part B and applicable sections of Part A need to be completed. Submission of any false statement of representation in this application is a violation of the law. Attach additional sheets as necessary.

Project Name: Stanton Energy Center Unit 2 County: Orange
System Address: Potable Water Distribution System
Street Orange County (Rural) City: N/A
Applicant's Name and Title: Orlando Utilities Commission
Applicant's Address: 500 South Orange Avenue, Orlando, FL 32801
Utility Supplying Water: Name Orlando Utilities Commission
Utility Address: same as above
Owner/Operator After Construction, if different: same as above
Owner/Operator Address: same as above
Type of Proposed Facility: Potable Water Distribution System To Serve: Facilities associated with
(Subdivision, trailer park, school, etc.) Stanton
Latitude 28 ° 29 ' ____ "N Longitude 81 ° 10 ' ____ "W Provide latitude/longitude and section-
2 addi-
tion
Section: ____ Township: ____ Range: ____
13, 14, 23, 24 23S 31E
18, 19 23S 32E
township-range of all plants and sources -
attach additional sheet, if necessary

A. Applicant:

I, the owner/authorized representative* of Orlando Utilities Commission
am fully aware that the statements made in this application for a permit to construct a Potable Water Distribution
are true, correct and complete to the best of my knowledge and belief. Further, the undersigned agrees to maintain System
the facility in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules of the
department, will be non-transferable and will promptly notify the department upon sale or legal transfer of the permitted
facility. The undersigned also accepts responsibility for retaining the project engineer as indicated on this application
to observe that construction of the project is in accordance with engineering plans as submitted.

*Attach letter of authorization

Signed: _____
Owner/Authorized Representative

Name and Title (Please type)

Date: _____ Telephone No. _____

B. Owner/Authorized Representative of Utility Supplying Water (if applicable):

The undersigned, owner/authorized representative* of _____ hereby certifies that the above referenced utility has adequate reserve capacity to supply water to this project and will provide the necessary treatment as required by Chapter 403, Florida Statutes, and all rules of the department. Further, the undersigned verifies that his treatment plant was constructed under a valid permit, Number _____ dated _____ issued by the department, and the connection of the proposed project will not be in violation of any condition of said permit.

*Attach letter of authorization

Signed: _____

Name and Title (Please type)

Date: _____ Telephone No. _____

C. Owner/Operator* After Construction (if different from applicant):

I, the undersigned, do certify that I will become the owner/operator of the proposed facility after construction. Further, I certify that I am fully aware that the statements made in this application are true, correct and complete to the best of my knowledge. Also, I agree to operate and maintain the facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all rules of the department. I understand the permit is non-transferable and will promptly notify the department upon sale or legal transfers of the permitted establishment.

*Attach letter of authorization

Signed: _____

Name and Title (Please Type)

Date: _____ Telephone No.: _____

D. Professional Engineer Registered in Florida:

This is to certify that the engineering features of this public drinking water system have been designed/examined by me and found to be in conformity with modern engineering principles, applicable to the treatment and distribution of drinking water characterized in this application. There is reasonable assurance in my professional judgment that the facility, when constructed as planned and properly maintained and operated, will comply with all applicable statutes of the State of Florida and the rules of the department.

Signed: _____

Name (Please Type)

Company Name (Please Type)

Mailing Address (Please Type)

(Affix Seal)

Florida Registration No. _____ Date: _____ Telephone No. _____

PART A - GENERAL

1. Estimated total cost of project Later Describe all water treatment Aeration and Chlorination (existing)
2. Existing plant capacity (MGD) 1.0 Plant capacity increase (MGD) 0
3. Previous DER permit number(s), if any Permitted under the Power Plant Siting Act (OGC File No. 81-0145)
4. Present population of area served about 150 (plant staff) For capita consumption 50 gpd
5. Design population (additional served by this project) approximately 1000 daytime transient during construction and about 100 additional plant staff
6. Total connections served Later Total connections approved Later Additional connections Later
7. Give any industrial users of abnormal commands N/A
8. Current system water demand, in MGD (from plant operation report) combined potable and plant service water:
Average day 0.44 Maximum day 1.0 Maximum hour (GPM) 850
Additional water demand, MGD: Avg. day 0.44 Max. day 0.5 Max. Hr. GPM) 305
9. Is plant designed for 24-hour operation of what portion? 24-hour operation
10. Give characteristics of raw water (attach primary and secondary chemical analysis pursuant to Chapter 17-550, F.A.C. see water quality data attached to Consumptive Use Permit Application, Subsection 10.7.1)
11. Give source proposed water (deep well, shallow well, spring, surface) deep wells (existing)
12. Sewage disposal Existing onsite sewage facility - OUC
(Name and Address of sewerage utility)
13. Finished water storage: Elevated (gals) N/A Ground (gals) 500,000 (existing)
Hydropneumatic (gals) 0 Existing Capacity (gals) 500,000 Capacity Increase (gals) 0
14. Existing service pump capacity (MGD) 2.45 Additional service pump capacity (MGD) 0
15. Static head in relation to pumping plant 20 to 40 feet
16. Well permit from water management district? Yes ☐ Permit No. _____
No ☒ Explain Permitted under the Power Plant Siting Act (OGC File No. 81-0145)

PART B - DISTRIBUTION SYSTEM

1. Interconnection with other system No
2. Min. size pipe 2-inch Max. size pipe 6-in. Min. system pressure 210 ft. @ Max. system pressure 240 ft.
3. Is fire control provided in design? Existing storage tank also supplies water for separate five pump discharge water system.
4. Describe dead-end conditions and necessity for flushing including number of such conditions and flushing schedule
All piping will be flushed and disinfected per AWWA C601.
5. Describe cross-connection control program Reduced pressure back flow preventers installed on the process connections.
6. Describe corrosion control program as necessary Not Necessary.
7. Water demand for additional connections (MGD) N/A
8. Number of each type of additional connections (residential, commercial, agricultural, industrial) to be served
None