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Department of Landscape Arch	nit	ect	ıre				
University of Georgi	a						
Athens, Georgia							

May 1961

CLAYTON COUNTY PARK

DXJ 35 ROBERT R. WILEY & PROBES I. WEEKS

A thesis Presented for
Degree of Bachelor of Landscape Architecture
Department of Landscape Architecture
University of Georgia
Athens, Georgia

May 1961

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Photographs of site

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INTRODUCTION

Open space for play, relaxation and recreation areas in our modern communities has become a very high priced commodity. The reason for this present condition is due to the lack of planning and the shortsightedness of the community and county authorities during the early days of development. Today open space in the community is a matter of secondary consideration when it should, by sheer necessity, be the very first consideration. The American public has just recently awaken to this growing need and citizens are demanding more and better equipped recreation areas. This is true in places where the citizens are made aware of the present conditions.

It is our intention in doing this thesis to create a recreation area that will fulfill the needs and desires of the people using the park. We are, in this case, concerned with all the people of Clayton County, and their recreation needs. By incorporating ground forms, various play, and passive areas, we have tried to create the ultimate in this type of Park.

For the benefit of those few people and groups of people who hesitate to venture into such development we have tried to impress upon them that good parks within the community will help to raise the moral, economic and aesthetic standards of the surrounding area. It also avoids costly redevelopment in the future. Taking into consideration the expedient growth of Jonesboro, we believe that our solution meets the needs of those who shall use the park.

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Clayton County was formed from parts of Fayette and Henry in 185%. The original Fayette-Henry line was between districts 12, 13 and 5, 6, passing only a few feet behind the present Courthouse and being the east line of the Panhandle section of Clayton County. The limits as given at the N. W. corner of land lot 6 in the 13th district of Henry now Fayette, thence east to the N. E. corner of land lot 248 in the 12th of Henry, thence due South to the S. E. corner of land lot 73 in the same district, thence due south to the S. E. corner of lot 155 in the 6th district of Henry, thence due west to the county line between Henry and Fayette, thence down said line to the Spalding County line, thence due west along said line to the middle of Flint River, thence up the stream of the river to the point where Camp Creek empties into Flint River, thence up Camp Creek to the S. W. corner of lot 185 in the 13th district of Henry now Fayette, thence due west to the S. W. corner of lot 187 in the 13th district, thence north to the Fulton County line between lots 5 and 6 of the 13th district to the beginning point. The new county was named for the Honorable Augustin S. Clayton (1783-1839), a judge of the Western Circuit of Georgia, a member of the legislature and a member of Congress. He also is known for establishing the first cotton textile factory in Georgia on the Oconee River near Athens in 1829.

to send from parts of Payetue and lenry in 1850. dependence only line was between districts 12, 13 and bus especiation thereard ent puried tool wor a place of out the of the Canandle section of Clayton County. as die at the .. W. corner of land lot 5 in the 13th form now events, thence east to the M. E. corner of in the 12th of Honry, thence due South to the S. E. the lot of in the same district, thence due south to conside to the bit district of Henry, thence will could line between Henry and Fayette, thence down se to exalding County line, thence due west along said settle of slaw Miver, thence up the stream of the river out dem Ores Greek empties into Flint River, thence up To somet of lot 185 in the 13th district of waste, teamer due west to the S. W. dorner of let 187 on warred, whende north to the Fulton County line beas and of the 13th district to the beginning point. To we send for the Honorable Augustin S. Clayton reduce of the Western Olivorit of Georgia, a member Making and a member of Congress. He also is known for at the first cotton textile factory in Georgia on the

The first officers commissioned on January 13, 1859 were Robert Holliday, clerk superior court; A. J. Hayes, clerk inferior court; James McConnell, ordinary; William Gunter, tax receiver; Jefferson Kirkland, tax collector; B. W. Bonner, surveyor; John K. Landers, coroner and J. H. Waldrof, sheriff.

Clayton County is at present one of the fastest growing counties in Georgia. From 1940 to 1950 its population jumped from 11,665 to 22,872; and from 1950 to 1960 increased to 23,329. Its proximity to Atlanta makes it ideal for residential purposes, and hundreds of dwellings have been built in the last five years in the middle and northern sections of the county.

This county is also ideal for industrial purposes. It is near Atlanta, situated on two north and south railroads and on a super highway. An active County Chamber of Commerce has been instrumental in securing a countywide water system, which can serve for industrial as well as residential purposes. With the new residents there is also a great labor potential.

While Clayton County is not primarily an agricultural county, there are several peach orehards, truck farms, and cattle farms. Many small creeks and springs provide water for fish ponds and well-watered bottom land for crops. Flint River flows through the northern part of the county and forms the western boundary of the southern part.

Several branches of county service are situated in Jonesboro. The Clayton County Library serves the entire county through branch

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"Town Athens in 1829.

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Allows condesioned on January 13, 1859 were Robert and superior court; A. J. Hayes, clerk inferior court; and court; and court, thillien Gunter, tax receiver; Jefferson and collector; B. W. Bonner, surveyor; John &. Landers, el. J. Eldrof, Speriff.

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The The service are situated in Jonesboro. The county Haray serves the entire county through branch

This was established in January, 1941, in cooperation with the W. P. A. The Library is supported by the County Commission, the County Board of Education, and the city of Jonesboro.

Other than Jonesboro, the county seat, there are several thriving communities in the county. Forest Park has surpassed all in growth. It, Lake City, Morrow, Mountain View, and Riverdale are incorporated towns; and Ellenwood and Rex on the east and Lovejoy on the south bring the total of towns to nine.

Site History Care Passage All of these

Land Lots 47 and 48 of the 12th district of Clayton County has been in possession of the county for the last fifty years.

Situated on the site is the county work camp, county maintenance barns, State Highway barns, a door factory, and the city dog pound.

A large earth fill has been started along the northern boundary of the site and is being used to cover up garbage deposited from the City of Jonesboro.

by one main road with service and promis roads

leading from it.

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description in several other sections.

In the county counts the county Commission, the section with the section with the section with the section of the county county seat, there are several thriving the county beat, there are several thriving sect park has surpassed all in growth.

In the county test park has surpassed all in growth.

Site History

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STATEMENT OF PROBLEM

CLAYTON COUNTY PARK

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The property for the proposed park area is located in the northeast portion of Jonesboro, in Clayton County Georgia. It embraces three tracts of land which include a proposed High School development on the north, a farm to the east, a Housing project to the south and it is bounded by a County road on the west.

Located upon the site are the County Work Camp, State Highway Maintenance Shops, the City Dog Pound and a Door Factory. All of these establishments are situated on the County Road. A large earth fill is built up along the north boundary.

The Clayton County Commissioners have expressed a desire that the park be developed naturalisticly or on informal lines, that it retain as much as possible of the natural plant material, and adhere to the existing topography.

The following facilities are to be included in the design of the park:

1. Vehicular circulation in the park will be provided by one main road with service and picnic roads leading from it. STATISMENT OF PROBLEM

CLAYTON COUNTY PARK

the proposed park area is located in the northeast consequent of the proposed than School development on the south and the contract to the south and the west.

the site are the County Work Camp, State Highway Main-

to control on or on informal lines, that it can a section of the natural plant material, and adhere

the facilities are to be included in the design of the park:

2. Picnic areas will include:

- (a) Fire Places
- (b) Picnic table and benches
- (c) Trash receptacles
- 3. Drinking fountains
- 4. Parking areas
- 5. Two large shelters
- 6. Three comfort stations
- 7. Group camping area
- 8. A three-acre lake, stocked for fishing
- 9. Softball, Baseball and Play fields
- 10. A temporary pistol range

The Work Camp, Highway Maintenance Shops, Dog Pound and Door Factory will be screened off from the park.

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There are 11272 acres to be developed. The Door Factory site consists of 3 acres.

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March 29, 1961

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Wages to be developed. The Door Factory site consists is

AMALYSIS OF THE PROBLEM

The primary consideration in an analysis of the problem is to determine the type of people the park will serve, the age groups into which they will fall, the approximate number of people who will use the park and their specific needs.

there are no other public parks in Clayton County therefore, this park should be designed to accommodate a variety of activities.

There should be play fields for different age groups, set apart from the other areas in order to give a maximum of freedom for the different activities.

Provision should be made for family picnicking and group picnicking. Shelters should be provided in case of unexpected weather conditions. A camping area to accommodate group and individual campers, located near the lake could be enjoyed by its users.

Comfort stations, trash recepticals and drinking fountains should be conventiently located throughout the park.

The required pistol range must be located with consideration to human safety and correct orientation to sum and prevailing winds. Due to the transecting of the site by the proposed highway, there is not enough accrage to accompdate a nine hole golf course. We recommend that ajoining property be purchased if a golf course is to be constructed in the near future.

EXPLANATION AND JUSTIFICATION OF SOLUTION

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We have presented this problem with specific objectives in mind.

It must be functional, attractive and must provide ease of access for vehicle and pedestrian traffic. We will justify our solution from a functional standpoint. This being the only park of its type in the area, it will have to serve a wide range of activities. We have located two softball and one baseball field in a large open area to the west of the park, near the entrance. This will isolate these relatively noisy sports from part of the picnicking, nature and camping areas. The placing of the three fields in one large open area make it a usable field for other sports such as football, soccer and other field sports. Parking, picnic shelter, and picnic sites are provided in this area for groups participating in these sports.

Located centrally in the park is a large nature area with meandering trails. Benches will be located along the trails for those who wish to sit and enjoy the quiet and peacefulnesss of this area. There is also a trail located along the lake shore which has sitting areas for those who wish to enjoy the lake area.

Another open area to the west of the lake will provide a vista onto the lake for those who drive through the park. Alongside this open area we provided another shelter and picnic sites to accommodate group and individual picnickers. Two other picnic areas have been located along the park road with adequate parking within walking

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with specific objectives in mind.

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The enjoy the lake area.

The lake will provide a vista onto the lake will provide a vista onto the lake will provide a vista onto the through the park. Alongside this accommodate the motion shelter and picnic sites to accommodate the motions. Two other picnic areas have been along within adequate parking within walking

distance to the sites.

Located to the east of the lake will be a walk in the camping area for group or individual campers. Aservice roak across the dam will be barricaded from all but service vehicular traffic and will serve as a walk from the circular parking area to the camp sites.

Comfort stations serving a hOO foot radius are provided and these are located to accommodate ten sites during the peak capacity of the park.

Planting in the form of screens has been placed around the maintenance and work camp area, Door Factory, Dog Pound and Pistol Range areas in order to screen these objectional conditions.

A pistol range is included at the owners request and located in the north west corner of the site and provides maximum safety to its areas and surrounding area.

Like will be a war in the camping area will like ast each account traffic and will serve and will serve and the camp sites.

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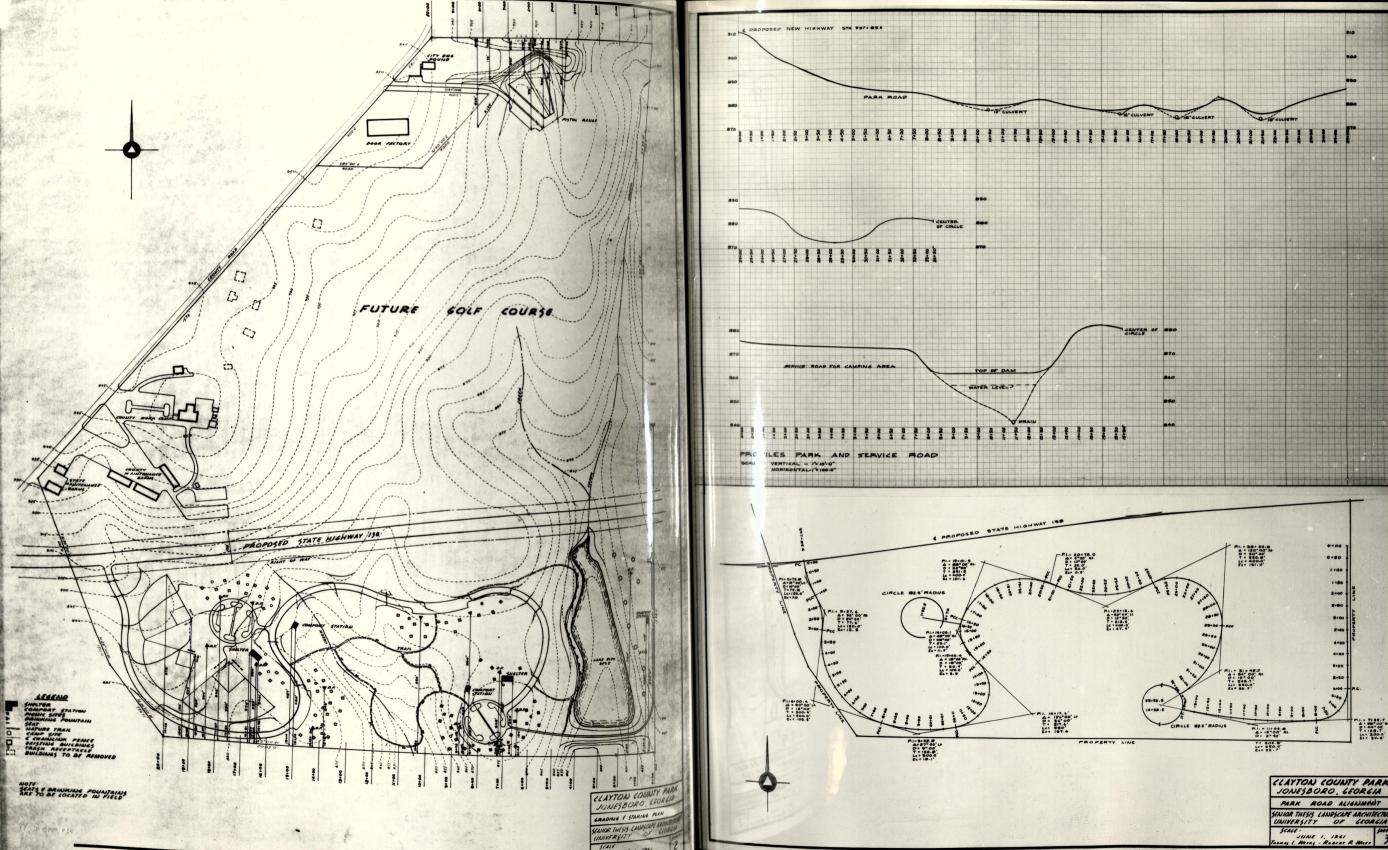


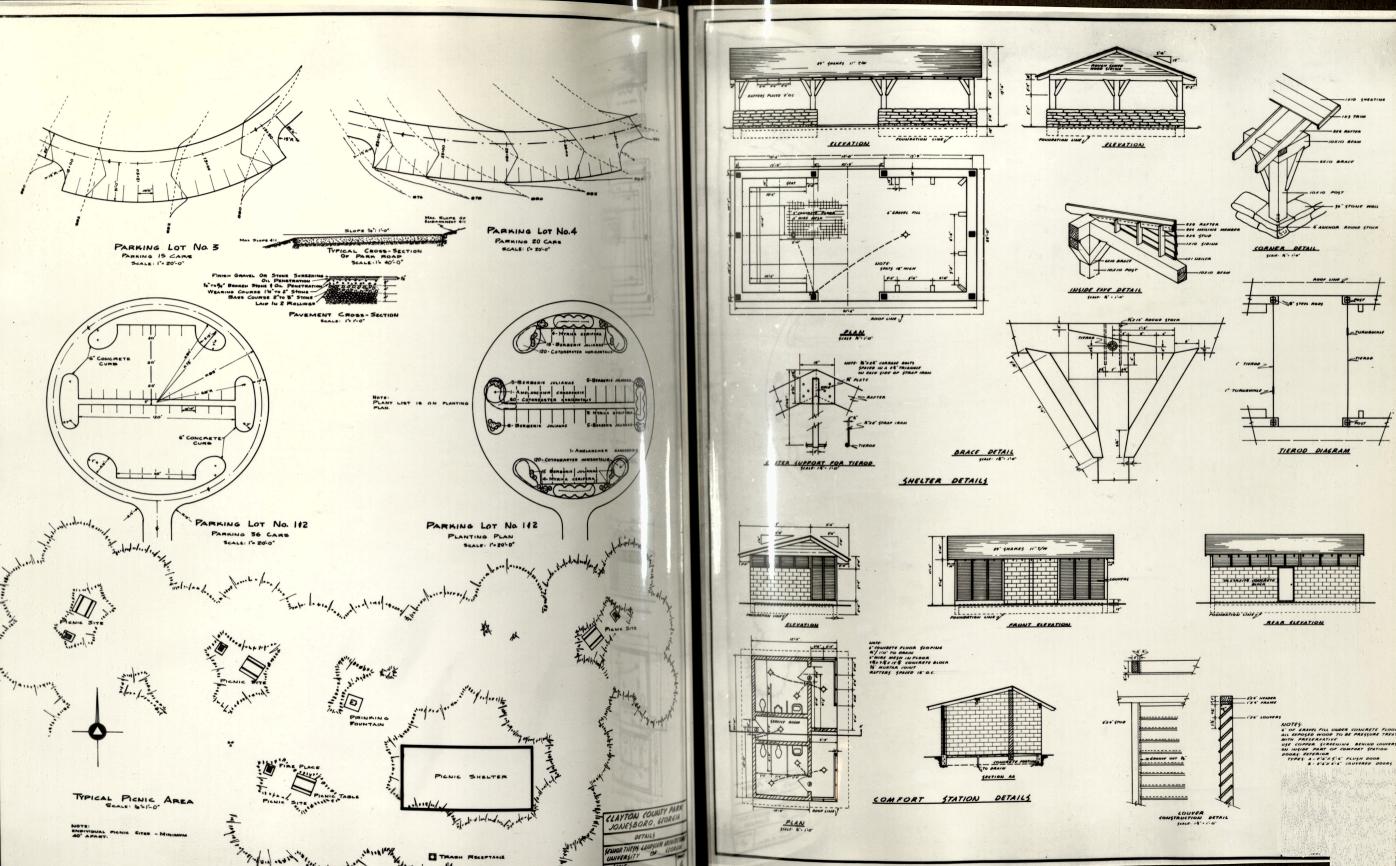


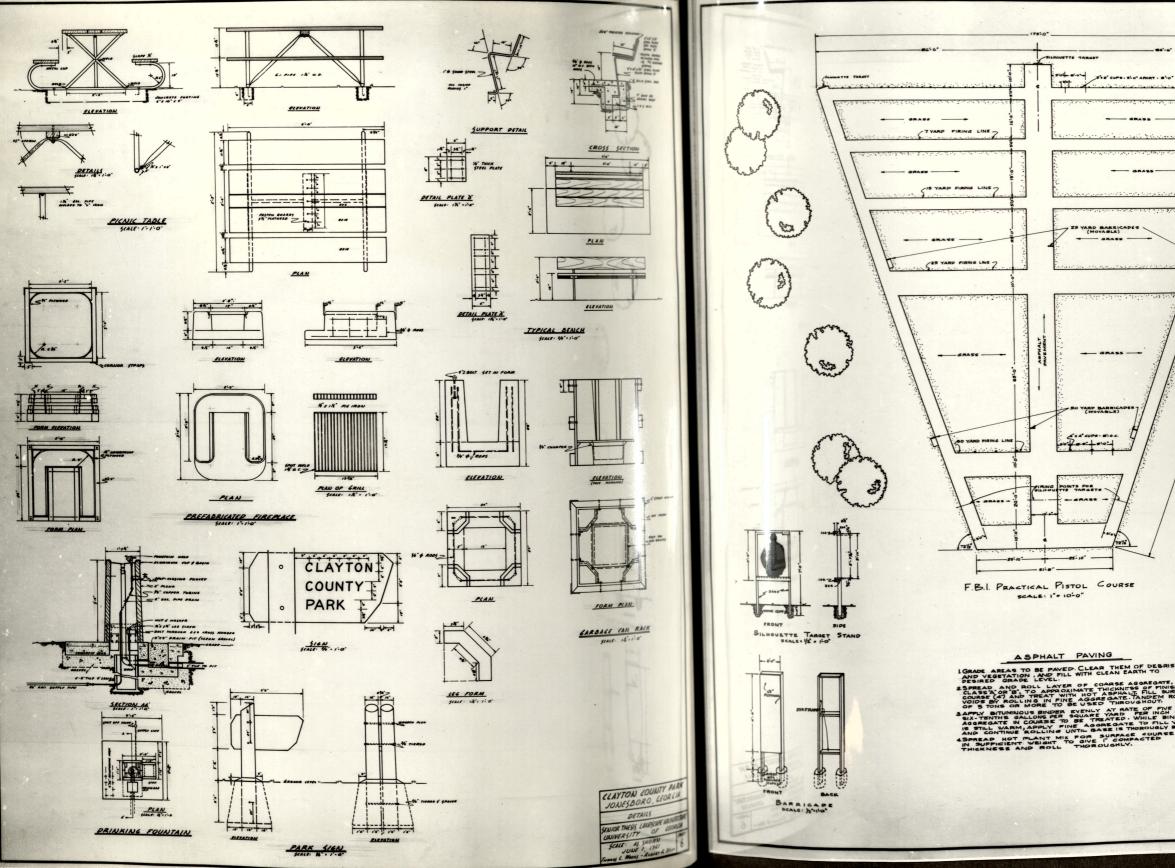












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AND CONTINUE ROLLING UNTO AGGREGATE TO THE PROPERTY OF THE P CLAYTON COUNTY PAR. F.B.I. PRACTICAL PISTOL COURSE SENIOR THESIS-LANDSCAPE ARCHITECTURINERS ITY OF GEORGE JUNE 1, 1961 mas L. Weens - ROBERT R. M.

PART I GENERAL PROVISIONS

- 1. SCOPE OF WORK: The work to be performed will consist of furnishing all materials, labor, supplies, and equipment for planting, grading, and construction in accordance with these specifications and in conformity with the plans.
- 2. LOCATION: The site of the proposed is located one mile
 north of the center of Jonesboro, Georgia, and east of the
 Central of Georgia Railroad and County Road. Property of
 Clayton County, twelfth land district, land lot number
 forty-seven and forty-eight.
- 3. SPECIFICATIONS AND DRAWINGS: The following drawings are a part of the supplementary to these specifications:

Title	Drawing No.
Master Plan	Sheet 1
Grading and Staking Pla	
Park Road Alignment	Sheet 3
Ot. It. Deteile	Sheets 4 - 5 - 6 - 7
Planting Plan	Sheet 8

The drawings and these specifications are intended to be mutually explanatory and complete, and all work called for by one, even if not by the other, will be fully executed.

In case of difference between drawings and specifications, the specifications will govern. In any case of discrepancy,



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either in figures, in the drawings, or in the specifications, the matter will be promptly submitted to the Landscape Architect, who shall promptly make a determination in writing. Any adjustment by the Contractor without this determination shall be at his own risk and expense.

- 4. SPIRIT AND INTENT OF SPECIFICATIONS: It is the spirit and intent of these specifications, and of the drawings forming a part of them, to provide that the work and all parts thereof will be fully completed and suitable in every way for the purposes for which they are designed. Mention in the specifications or indication on the drawings of articles or materials, operations or methods, requires that the contractor will provide each item listed or quality, or subject to qualifications noted; perform according to conditions stated, each operation prescribed, and provide therefore all necessary labor, materials, tools, equipment and incidentals necessary to complete the work.
- 5. ERRORS OF OMISSIONS: The Contractor will not be allowed to take advantage of errors or omissions in these specifications or contract drawings as full instruction will be given if such errors are discovered. Upon his discovery of any statement or detail which is discrepant or otherwise appears in error, the Contractor will immediately call it to the attention of the Landscape Architect.
- 6. MEASUREMENTS: Before ordering any material or doing any work, the Contractor will verify all measurements at the site and shall

either in figures, in the drawings, or in the specifications, the patter will be promptly submitted to the Landscape Architett who shall promptly make a determination is writing. Any
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Outside will verify all measurements at the site and shall

be responsible for correctness of same. No extra charge or compensation shall be allowed on account of difference between actual dimensions and the measurements indicated on the drawing.

Any difference which may be found will be submitted to the Landscape Architect for consideration prior to beginning the work.

- each bidder shall be held to have examined the premises and satisfied himself as to the existing conditions under which he will be pledged to operate or that in any manner shall affect the work under this contract. No allowance shall be made subsequently in this connection in behalf of the Contractor for any error or negligence on his part.
- the first workday after receiving the "Notice to Proceed".

 The Contractor shall have _____ calendar days in which to complete the work except for extensions approved by the Supervisor. The Contractor will give due and adequate notice of all work he proposes to start to those in control of properties which may be affected by his operations. Work is to proceed in an orderly way. The organization of these specifications or contract drawings do not necessarily indicate the order of sequence in which the work is to be performed.

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of equality. When required by use specifications, or when called

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de Contractor while have extender days in which to

9. TEMPORARY SUSPENSION OF WORK: The Supervisor shall have the authority to suspend the work, wholly or in part, for such period as he may deem to the best interest of the owner, due to conditions which are considered unfavorable to the suitable carrying out of the work, or for failure on the part of the Contractor to carry out orders given or to perform any provision of the contract. The Contractor will immediately respect the written order of the Owner to suspend the work wholly or in part. The Contractor will not suspend work without such written authority, and will immediately resume work when conditions are favorable or when methods have been corrected, as approved by the Supervisor in writing.

- other contracts for additional work, and the Contractor shall fully cooperate with such other contractors and the Owner or his employees and carefully fit his own work to such additional work as directed by the Supervisor. The Contractor will not commit or permit any act which will interfere with the performance of work by any other contractor or employee of the owner.
- scribed by these specifications and the contract drawings. When ever not explicitly described, all workmanship used or employed in carrying out the work will be the best of the respective grades and qualities. Where equipment, materials, or articles are referred to in the specifications as "equal to" any particular standard, the Supervisor shall decide the question of equality. When required by the specifications, or when called

o records Sittle Miston OF WORL: The Supervisor shall have the enterty to suspend the work, wholly or in part, for such meriod as he may deem to the best interest of the owner. due to conditions which are considered unfavorable to the suitalle carrying out of the work, or for failure on the part of the Contractor to carry out orders given or to perform any graving of the contract. The Contractor will immediately respect the written order of the Owner to suspend the work solly or in part. The Contractor will not suspend work without see witten subbority, and will immediately resume work when conditions are favorable on when methods have been corrected, a symptotic by the Supervisor in writing. 0. OTHE COVIENCES: The County Commission may undertake or award other contracts for additional work, and the Contractor shall fully experate with such other contractors and the Owner or is employed and carefully fit his own work to and additional wit as directed by the Supervisor. The Contractor will not complete any act which will interfere with the performance or were by any other contractor or employee of the owner. sprided by these apecifications and the congract drawings, When ever set explicitly described, all workmanship used or employed in carrying out the work will be the best of the respective radas and qualities. Where equipment, materials, or articles was "of Laupe" as encilsofficed and at of beriefer any articular standard, the Supervisor shall decide the question of sovelity. When required by the specifications, or when called

for the Supervisor, the Contractor will furnish for approval full information concerning the materials or articles which he contemplates incorporation in the work. Samples of materials will be submitted for approval when so directed. Machinery equipment and materials and articles installed or used without such approval will be at the risk of rejection.

- 12. MINOR MODIFICATIONS: The Contractor will make such minor changes in in the cemecution of the work to be done under these specifications as, in the judgment of the Supervisor, may be necessary or expedient to carry out the intent of the contract. No increase over the contract price will be paid to the Contractor on account of such minor modifications provided that at the time the change is to be made the work involved has not already been executed.

 Work which materially increases the cost to the Contractor will not be ordered under the provision of this paragraph.
- 13. GUARANTEE: The Contractor will guarantee all work under this contract for one year from the date of acceptance by the County Commission, except as otherwise agreed upon in writing by the parties to the contract. Whenever work is required to be guaranteed, the Contractor, When notified by the County Commission must immediately notify the latter.
 - (1) place in satisfactory condition in every particular of the guaranteed work.

Leveling with delivered life respective of the appropriate of doing soloties to alstrosom end aplacement no elstrates inderestate to the work. Samples of materials vronfforff .bottoetib or genv Lavoures to 1 bearing at the from the bear to buildent associate bar alaristan has been been esserant of standard end to Jacqui and Jun yerse of omesons demons no researance and of blag of filty coing descine of the egands sat and end is init bebivory scottes the rolls some to .bedusers need phastle don ead herkevel brow and sheet ed to "Hernstrag white he note twom out tehen betelte se to whit webre drow the common the redesimed out work with ond we considered to stab out sort men and to tell muitire al seco beerge selvrodo se duente moleches von of the pareigns to the continuot. Thenever work is required to be parameted the Contractor, then notified by the County Countering who had not the property of the latter with the contract of th -love to savigate or modelines of sale

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- (2) make good all damage to the structures and grounds or equipment and contents thereof if such unsatisfactory condition or damage develops within the stipulated period and is due to the use of materials or workmanship which are inferior, defective or not in accordance with this contract, and must make good any work or materials or grounds which are disturbed in fulfilling the requirements of this guarantee.
- 4. PAYMENT: Payment of 90% of bid will be made upon completion of all work. The remaining 10% will be held until expiration of the guarantee.
- 15. REJECTION: All materials which do not meet these specifications or the requirements of the contract drawings shall be rejected by the Supervisor and will be removed from the site and replaced by proper materials by the Contractor at his own expense.
- 16. CONTRACTOR'S RESPONSIBILITIES: The Contractor will, without additional expense to the Owner, obtain all licenses and permits required for the prosecution of the work. The Contractor will provide and maintain all temporary roadways and utilities which may be authorized, and all barriers, colored lights, danger signals and other devices necessary to provide for the traffic and safety. The Contractor will keep his equipment, operations and materials confined to the limits indicated on the contract

(2) make good all damage to the structures and grounds or equipment and contents thereof if such unsatisfactory condition or damage develops within the stipulated period and is due to the use of materials or worknamship which are inferior, defective or not in accordance with this contract, and must make good any work or materials or grounds which are disturbed in fulfilling the requirements of this guarantee.

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Of the requirements of the contract drawings shall be rejected by
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and safety. The Contractor will keep his equipment, operations
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drawings. The Contractor will restore, at his expense, any damage to any property and will take such action to insure protection of any existing material, trees, structures, utilities in, on, or over the site. The Contractor will conduct his operations and leave the site so as to in no way endanger the health or lives of anyone. He will be responsible for all damages to persons or property that occur as a result of his fault or negligence in connection with the prosecution of the work. He shall also be responsible for all materials delivered and work performed until completion and final acceptance. The Contractor will, at all times, be responsible for the safety and conduct of his employees. The County Commission may in writing require the Contractor to remove from the work such employee as he deems incompetent, careless, insubordinate, or otherwise objectionable, or whose continued employment on the work is deemed by the County Commission to be contrary to the Owner's interest.

- 17. SPACE FOR STORAGE OF CONSTRUCTION MATERIALS: The Contractor will provide suitable storage for material and euipment on the site and will maintain all storage space in a safe and orderly condition. The Owner assumes no liability for loss or damage to materials or equipment due to improper storage, lack of protection from the elements or from any other cause. Inflammable materials will be enclosed in safe containers.
- 18. CLEAN UP: The Contractor will remove all debris from his operations each evening of every workday to the satisfaction of the owner. All brick bats, rock, wood debris, metal objects and similar materials.

egamab yes, esaeque aid ta testore, at his expense, any damage to my property and will take such action to insure protection of an edating material, trees, structures, utilities in, on, or over the side. The Contractor will conduct his operations and leave the site so as to in no way endanger the health or lives encerso of seasons IIs for aldianogear ad Iliv el .. snows to or property that occur as a result of his fault or neglicence to conception with the prosecution of the work. He shall also be responsible for all materials delivered and work performed will completion and final acceptance. The Contractor will, at all times, be responsible for the safety and conduct of his employees. The County Commission may in writing require the Contractor to remove from the work such employee as he deems incompetent, careloss, insubordinate, or otherwise objectionable, or whose continued employment on the wark is deemed by the County Commission to be contrary to the Owner's interest.

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M. CLEAN UP: The Contractor will remove all debris from his operations seek evening of every workday to the satisfaction of the owner. All brick bats, rock, wood debris, metal objects and similar materials.

uncovered during excavation operations will be disposed, leaving the completed work in a neat, policed manner.

The Appropriate Fine appropriate for emporate chall consist of elemand sund, 95% of which whall pass a No. h eleman Not less than 50% small be retained on a No. 3 missey not more than 5% shall care a 100 mash dieve.

brength of 3,000 lbs. per square inch at the end of twooty-eight

Portions Coments (Reall be of one approved brand Eurospicut, meeting requirements of American Society for American Paterials., standard specifications designation C - 150 - 12. type I.

Later All water used must be clear filtered drinking water containing to alkali, and, vegetable matter or other shemicals.

Intrins to the concrete.

Concrete or shall be missed on the city in a memberical misser of the type approved by the County Engineers uncovered during excavation operations will be disposed, leaving

CONCRETE

Course Aggregate: Gravel or crushed stone must be hard, clean and free from organic amtter, acid or other chemicals and grading reasonably uniform in size from a minimum of 1/2" to a maximum of 1/4", for the different classes of the work.

Fine Aggregate: Fine aggregate for concrete shall consist of clean, washed sand, 95% of which shall pass a No. h sieve. Not less than 50% shall be retained on a No. 3 sieve; not more than 5% shall pass a 100 mesh sieve.

Concrete Quality: All concrete shall have an ultimate compressive strength of 3,000 lbs. per square inch at the end of twenty-eight days.

Portland Cement: Shall be of one approved brand throughout, meeting requirements of American Society for Testing Materials., standard specifications designation C - 150 - h2. type I.

Water: All water used must be clean filtered drinking water containing no alkali, acid, vegetable matter or other chemicals injurious to the concrete.

Mising and Placing Concrete: Shall be approved, ready mixed concrete or shall be mixed on the site in a mechanical miser of the type approved by the County Engineer.

Course Afrencies Gravel or crushed stone must be hard, clean and free inch organic amtier, sold or other chemicals and guading number with the maximum of 1/2" to a maximum of 1/4", for the different classes of the work.

The logical send, Sel of which shall pres a lo. h shaws. Not less than the less than the send, seld on a los a los a los a los than 5% shall be retained on a los. 3 sleve; not nore than 5% shall be retained on a los. 3 sleve; not nore than 5% shall

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interest Season Saall be of one approved brand throughout, alter the requirements of avertices for feather the seather.

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Leggs 150 - 150 - 150 - 150 type I.

Leggs 150 - 150 type II.

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Slab on Earth: Concrete slabs for Shelter and Comfort Stations on earth, shall have mesh reinforcement, where no other reinforcements are shown or detailed.

messary for preparation of final subgrades in lawn and planting was; bree wells and most protection; finished grading; soil reasent, lawn construction; planting of trees, and curvie; prection, maintenance, guarantee, and replacement of lawns and plant; and related items required to complete the work indicated on the drawings and specified except; (1) protection of existing trees and shrubs; specified in the division lamblation and Clearing of Sits; (2) protection, priming, and repair of existing trees and thrubs to remain, and trees removel; (3) stripping and steering of existing trees and clearing to full; and (5) rough grading of subgrade to a point operation of each planting areas, specified in the division Excavating, Filling and planting areas, specified in the division Excavating, Filling and Grading, which operations are to be completed before work of the true and cleaning ten proceed.

See on Earth: Concrete slabs for Shelter and Comfort Stations on arth, shall have mash reinforcement, where no other reinforcements are soon or detailed.

SPECIFICATIONS

LAWNS AND PLANTING

his 1.1 SCOPE sonditioned by addition of superphosphates, peat

This division includes furnishing all materials and equipment necessary for preparation of final subgrades in lawn and planting areas; tree wells and root protection; finished grading; soil treatment; lawn construction; planting of trees, and shrubs; protection, maintenance, guarantee, and replacement of lawns and plants; and related items required to complete the work indicated on the drawings and specified except: (1) protection of existing trees and shrubs, specified in the division Demolition and Clearing of Site; (2) protection, pruning, and repair of existing trees and shrubs to remain, and tree removal; (3) stripping and storing of existing topsoil for refuse; (4) restrictions regarding material used for fill; and (5) rough grading of subgrade to a point approximately 3 inches below finished grade established for lawn and planting areas, specified in the division Excavating, Filling and Grading, which operations are to be completed before work of the lawns and planting can proceed.

(d) List stall be ground limestone centaining not less than them.

For cent of total carbonates and aball be ground to wont a finances but 50 per cent will pand through a IDC-mesh; since and 96 per cent will pand through a IDC-mesh; since and 96 per cent will past through a 20-most since. Conver saterial will be a magnification, provided the spacified rates of application are impressed propartitionately in the basis of quantities passing the ICC-mesh size.

SPECIFICATIONS LAWNS AND PLANTING

wis division includes furnishing all materials and equipment guitasig bas awal at cabarades lant's to noits seem and yestern Lice trained and root protection; finished grading; sold resment; lawn construction; planting of trees, and shrubs; mosetion, maintenance, guarantee, and replacement of lawns and beiscibni drow ed edelquos of beriuper andi beisler bas indicated antitains and specified except: (1) protection of existing and shrubs, specified in the division Demolition and Clearing dite; (2) protection, pruning, and repair of existing trees and into to remain, and tree removal; (3) suripping and storing of witing topsoil for refuse; (4) restrictions regarding material Union and (5) rough grading of subgrade to a point profinately 3 inches below finished grade established for and planting areas, specified in the division Excavating, Filling of the draw eroled betelemon et of ers ancitered before work of the .bestord neo unitrale ons sod

2. MATERIALS

- (a) Topsoil Stripped and Stored under the division Excavating,
 Filling and Grading will be tested for qualitative analysis per Acre.
 This soil can be conditioned by addition of superphosphates, peat
 moss, organic material, etc., thoroughly mixed with the soil; before
 use.
- (b) Topsoil to be Furnished. If the quantity of stored topsoil is inadequate, sufficient additional topsoil shall be furnished.

 Topsoil furnished shall be a natural, fertile, friable soil,

 possessing characteristics of representative productive soils in

 the vicinity. It shall be obtained from naturally well-drained areas.

 It shall not be excessively acid or alkaline nor contain toxic

 substances which may be harmful to plant growth. Topsoil shall be

 without a mixture of subsoil and shall be cleaned and reasonably

 free from clay lumps, stones, stumps, roots or similar substances

 two inches or more in diameter, debris, or other objects which

 might be a hindrance to planting operations.
- (c) Manure shall be well-rotted, unleashed, stable or cattle manure, reasonably free from shavings, sawdust, or refuse, and shall not contain any harmful materials.
- (d) Lime shall be ground limestone containing not less than

 85 per cent of total carbonates and shall be ground to such a fineness
 that 50 per cent will pass through a 100-mesh sieve and 90 per cent
 will pass through a 20-mesh sieve. Coarser material will be acceptable,
 provided the specified rates of application are increased proportionately
 on the basis of quantities passing the 100-mesh sieve.

S. MATERIALS

(a) Copsell to be Furnished. If the quantity of stored topsell is indequate, sufficient additional topsell shall be furnished.

Speci furnished shall be a natural, fertile, friable soil, presesting characteristics of representative productive soils in the violetty. It shall be obtained from naturally well-drained areas. It shall not be excessively acid or alkaline nor contain toxic matures which may be harmful to plant growth. Topsell shall be denoted and reasonably defined a mixture of subsoil and shall be cleaned and reasonably maintened in dismeter, debris, or other objects which is independent to planting operations.

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on pass through a 20-mesh sieve. Coarser material will be acceptable.

Torided the specified rates of application are increased proportionately.

The basis of quantities passing the 100-mesh sieve.

- (e) Commercial fertilizer shall be used, and shall conform to the applicable state fertilizer laws. It shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original, unopened container, each bearing the manufacturer's guaranteed analysis. Any fertilizer which becomes caked or otherwise damaged, making it unsuitable for use, will not be acceptable.
- (f) Water used in this work will be furnished by the Local
 Authority and will be suitable for irrigation and free from
 ingredients harmful to plant life. Hose and other watering equipment
 for the work shall be furnished by the contractor.
 - (g) Materials for Staking, Guying and Wrapping.
- (1) Notched stakes and deadmen for anchoring guy wires shall be about 2 by 4 inches by 3 feet sound wood, erected.
- (2) Stakes for supporting trees shall be 2 1/2 inches square or round, by 8 feet sound wood, creosoted one-half their length.
- (3) Wire for guys or for fastening trees to stakes shall be No. 12 gauge pliable, galvanized iron.
- (4) Flags to be fastened to guys shall be of sound wood about 1/2" x 12" with a 3/8" hole centered 1-1/2" from each end, or 1-1/2" x 12" sheet metal with corners clipped and punched both ends, painted white.

contractor may at his portion furnish the plant material listed

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- (5) Hose to encase guy wires or wires used for fastening trees to stakes shall be new or used 2-ply reinforced rubber garden hose:
- (6) Wrapping material for tree trunks shall be standard burlap, heavy crepe paper, or other suitable material, in strips 6 to 10 inches wide.

(h) Lawn Materials

- (1) Sprigs shall be Bermuda grass. They shall be healthy virorous, freshly dug, free of pernicious weeds, and shall be properly protected until planted.
- (2) Sod shall be at least 60 percent Bermuda grass; strongly rooted, and free of pernicious weeds. It shall be moved to a height not to exceed 3" before lifting and shall be uniform thickness with not over 1 1/2" or less than 1" soil.

(i) Plant Materials

- (1) Plant List. A list of plants is shown on the planting plan.
- (2) Nomenclature. The names of plants required under this contract conform to those given in Standarized Plant Names, 1942

 Edition, prepared by the American Joint Committee of Horticultural Nomenclature. Names of varieties not included therein conform generally with names accepted in the nursery trade.

Burgarred Flants. Plants designated

(3) Quantities. Quantities necessary to complete the planting as shown and located on the drawings shall be furnished.

The contractor may at his option furnish the plant material listed

- (5) Hose to encase guy wires or wires used for fasiening set to stakes shall be new or used 2-ply reinforced rubber garden
 - (6) Wrapping material for tree trunks shall be standard male, heavy crepe paper, or other suitable material, in strips to 10 inches wide.

(h) Lawn Muterials

- (1) Spries shall be Bernuda grass. They shall be weld; virorous, freshly dug, free of permicious weeds, and skill be properly protected until planted.
- (2) Sod shall be at least 60 percent Bermuda grass; struct rooted, and free of permicalous weeds. It shall be need to a height not to exceed 3" perfore lifting and shall be miles this met and over 1 1/2" or less than 1" soil.

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- (2) Munepolature. The names of plants required under this outrast conform to those given in Stendardsed Plant Names, 1942 didn, prepared by the American Joint Committee of Horticultural outplature. Names of varieties not included therein conform sherally with names accepted in the nursery trade.
 - (3) quantities. Quantities necessary to complete the latting as shown and located on the drawings shall be furnished.

as an alternate in any instance, provided matched plantings are used wherever shown.

(4) Quality and Size. Plants shall have a habit of growth that is normal for the species and shall be sound, healthy, vigorous, and free from insects pests, plant diseases, and injuries. All plants shall equal or exceed the measurements specified in the Plant List, which are minimum acceptable sizes. They shall be measured before pruning, with branches in normal position. Any necessary pruning shall be done at time of planting. Requirements for the measurement, branching, grading, quality, balling and burlapping of plants in the Plant List generally follow the code of standards currently recommended by the American Association of Nurserymen Inc., in the American Standard for Nursery Stock.

(5) Type of Protection to Roots

- (a) Balled and Burlapped Plants. Plants designated
 "B&B" in the Plant List shall be balled and burlapped. They shall
 be dug with firm, natural balls of earth of sufficient diameter
 and depth to encompass the fibrous and feeding root system necessary
 for full recovery of the plant. Balls shall be firmly wrapped with
 burlap or similar material and bound with twine, cord or wire mesh.
 Where necessary to prevent breaking or cracking of the ball during
 the process of planting, the ball may be secured to a platform.
- (b) Bare-Root Plants. Plants designated "BR" in the Plant List shall be dug and earth removed without injury

s a sternate in any instance, provided matched plantings are used

cality and Size. Flants shall have a habit of growth that is simil for the species and shall be sound, healthy, vigorous, and the from insects peats, plant diseases, and injuries. All plants shall equal or exceed the measurements specified in the Flant list, with are minimum acceptable sizes. They shall be measured whose prainty, with branches in normal position. Any necessary puring shall be done at time of planting. Requirements for the measurement, preparating, grading, quality, balling and burlapping of plant list generally follow the code of standards or recommended by the American Association of Murserymen Inc., in the mentican Standard for Mursery Stock.

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(b) Fare-Root Plants. Plants designated "Ent"

to the fibrous root system necessary for the full recovery of the
plant. Roots shall be covered with a thick coating of mud by
puddling or wrapped in wed straw, moss, or other suitable packing
material immediately after they are dug, for protection until delivered.

- (c) Protection after Delivery. The balls of "B&B" plants which cannot be planted immediately on delivery shall be covered with moist soil or mulch, or other protection from drying winds and sun. Bare-rooted plants shall be planted or heeled in immediately upon delivery. All plants shall be watered as necessary until planted.
- 3. SAMPLES, TESTS, AND INSPECTIONS.
- (a) Notice of Sources. Within ten days following acceptance of the bid, the Supervisor shall be notified of the sources of the materials required or desired to be inspected or tested.
- topsoil to be Furnished. The Supervisor will inspect topsoil to be furnished at its source, to determine whether or not it meets the requirement specified and to approve the depth to which it may be stripped. At the time of inspection, the Contractor may be required to take representative soil samples, under the direction of the Supervisor, to the proposed stripping depth, from several locations in the area under consideration. If samples are required, tests will be made by a state or commercial soil testing laboratory using methods approved by the Association of Official Agricultural Chemists or to State Agricultural Experiment Station. Delivery of topsoil may begin after approval of the sample.

- the fibrows root system necessary for the full recovery of the dat. Woots shall be covered with a thick coating of mud by pudding or wrapped in wed straw, moss, or other suitable packing storial immediately after they are dug, for protection until delivered.
 - (c) Protection after Delivery. The balls of "B&B" plants which cannot be planted immediately on delivery shall be consist acid or mulch, or other protection from dring winds and sum. Here-rooted plants shall be planted or medical in immediately upon delivery. All plants shall be watered as messessy until planted.
 - MOTHER TESTS, AND INSPECTIONS.
 - (a) Notice of Sources. Within ten days following acceptance of the bid, the Supervisor shall be notified of the sources of the Mitrials required or desired to be inspected or tested.
 - (b) Posoil to be Furnished. The Supervisor will inspect topsoil to be furnished at its source, to determine whether or not it meets the requirement specified and to approve the depth of it may be stripped. At the time of inspection, the furnament may be required to take representative soil samples, and the direction of the Supervisor, to the proposed stripping with, from several locations in the area under consideration. If samples are required, tests will be made by a state or consideration of official Agricultural Chemists or to State

- (c) Plants. The Contractor shall be responsible for all certificates of inspection of plant materials that may be required by Federal, State or other authorities to accompany shipments of plants. Inspection of plants to be balled and burlapped will be made at the place of growth. All plants must be inspected and approved before they are planted. Inspection and approval by the Supervisor of plants at the place of growth or upon delivery shall be for quality, size, and variety only and shall not in any way impair the right of rejection for failure to meet other requirements during progress of the work.

 4. CONSTRUCTION METHODS
- (a) Time of Planting. The Contractor shall be notified in writing by the Supervisor, when other divisions of work have progressed sufficiently, to commence work of lawns and planting, including placing of topsoil to finished grade. Thereafter, planting operations shall be conducted under favorable weather conditions during the next specified season, or seasons.

 Trees, shrubs and vines to be planted between December 1 and March 15; Bermuda grass lawns to be planted between April 1, and September 1. If establishment of a Rye Grass lawn is necessary for a temporary measure, this shall be done between September 15, and March 15.
 - (b) Existing trees to remain.
- (1) Temporary structures erected for protection of existing trees during the construction required under division,

(c) Plants. The Contractor shall be responsible for all entificates of inspection of plant materials that may be required by Mederal, State or other authorities to accompany shipments of plants. Impection of plants to be balled and burkapped will be made at the place of growth. All plants must be inspected and approved at the place of growth. Thesection and approval by the Supervisor of plants at the place of growth or upon delivery shall be for multip, size, and variety only and shall not in any way impair the right of rejection for feilure to meet other requirements

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These, shrubs and wines to be planted between December 1 and hard 15; berruda grass lawns to be planted between April 1.

The stablishment of a Rye Grass lawn is necessary at temporary measure, this shall be done between September 15.

(b) Existing trees to remain.

L CONSTRUCTION METHODS

(1) Temporary structures erected for protection of

Demolition and Clearing of Site and Excavating. Filling and Grading, shall be removed only when necessary to facilitate the work of lawns and plants.

- (2) Permanent tree-root protection shall be provided where indicated for existing trees as shown on the drawings.
- (3) The area for tree root protection shall be considered as that over which the branches spread. The objective of tree root protection is to maintain the normal air and water content and fertility of the soil about the tree.

 Before making a fill, remove the vegetation, sod, leafiliter, and other organic matter from beneath the trees and loosen the surface soil. Care shall be taken that the trees and their roots are not damaged by construction operation.
 - (c) Transplanting.
- (d) Pruning and Repair. Upon completion of the work of this contract, all trees and shrubs shall have been pruned and any injuries repaired. The amount of pruning shall be limited to the minimum necessary to remove dead or injured twigs and branches to compensate for the loss as a result of transplanting operations. Pruning shall be done in such a manner as not to change the natural habit or shape of the plant. All cuts shall be made flush, leaving no stubs.

 On all cuts over 3/4 inch in diameter and bruises or scars on the bark, the injured cambium shall be traced back to

description and Clearing of Site and Excavating. Filling and mediar, shall be removed only when necessary to facilitate the cut of laws and plants.

(2) Parmanent tree-root protection shall be provided
where indicated for existing trees as shown on the drawings.

(3) The area for tree root protection shall be unifered as that over which the branches spread. The objective of tree root protection is to unintain the normal air and make consent and fertility of the soil about the tree.

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The order over 3/4 thath in diameter and bruises or scars made berk, the injured cambium shall be traced back to

living tissue and removed; wounds shall be smoothed and shaped some as not to retain water; and the treated area shall be coated with shellac.

(e) Obstructions Below Ground or Overhead.

- (1) It is not contemplated that planting shall be done where the depths of soil over underground construction, obstructions or rock is insufficient to accommodate the roots or share pockets in rock or impervious soil will require drainage. Where such conditions are encountered in excavation of planting areas and where the stone, boulders, or other obstructions cannot be broken and removed by hand methods in the course of digging plant pits of the usual size, and where trees to be planted are found to be under overhead wires, other locations for the underground construction or overhead wires or for the planting may be designated by the Supervisor.
- (2) Removal of rock or other underground obstructions, relocation of construction, and provision of drainage for planting areas shall be done only as directed by the Supervisor.

with S grounds of 10-6-4 formula commercial

(f) New Planting.

(1) Layout. The new planting shall be located where shown on the plans excepting where obstructions below ground or overhead are encountered or where changes have been made in the construction. Necessary adjustments shall be approved by the Supervisor. No planting excepting ground cover and vines shall be placed closer than two feet to pavements or structures.

- (2) Planting Pite. Circular pits with vertical sides tell to exceveted for all plants except for hedge and plants positically designated on the plans to be planted in beds.

 Nameter of pits for trees and BKB shrubs and vines shall be at less to tree greater than the dismeter of the ball or spread of roots. Planeter of pits for bare-rooted (BR) shrubs and vines thal be at least two feet greater than the diameter of the wines all or spread of roots. The depth of pits for brees, shrubs and vines this enough to accomplate the ball or roots when the plant is sail be enough to accomplate the ball or roots when the plant is sail or prepared soil in the bottom of the pit.
 - (3) Soft Preparation. Soil used in planting shall be topsoil, as herein before specified, or switable existing soil shall be thoroughly mired with one part of peat and one part of manne to five parts of existing soil. Very poor soils, gravel, hard-pan, or other soil injurious to plants shall not be used. Except for ericaccous plants, very acid or sour soil shall be mired thoroughly with 5 pounds of 10-6-41 formula commercial ferbilizer per cubic yard.
 - (4) Excess excevated soil shall be disposed of where
 - (5) Setting Plants. Unless cobherwises specified.

 U plants shall be planted in pits, centered, and set on 3 inches of Deschal topsoil or prepared soil to such depth that the

that the finished grade level at the plant after settlement, will be the same as that at which the plant was grown. They shall be planted upright and faced to give the best appearance or relationship to adjacent structures. No burlap shall be pulled out from under balls. Plantforms, wire, and surplus binding from top and sides of the balls shall be removed. Roots shall be spread in their normal position. All broken or frayed roots shall be cut off cleanly. Topsoil or prepared soil shall be placed and compacted carefully to avoid injury to roots and to fill all voids. When the hole is nearly filled, add water as necessary and allow it to soak away. Fill the hole to finished grade, and form a shallow saucer around each plant by placing a ridge of topsoil around the edge of each pit. After the ground settles, additional soil shall be filled into the level of the finished grade.

- (6) Guying, Staking, Wrapping. Trees shall be supported immediately after planting. All trees 6 inches and over in the trunk diameter shall be guyed and wrapped. Smaller trees shall be staked. Wires shall be encased in hose to prevent direct contact with bark of the tree and shall be placed around the trunk in a single loop. Wires shall be tightened and kept taut by twisting the strands together.
- (a) Guying. Guying shall be done with three guys spaced equally above a tree. Each guy shall consist of two strands of wire attached to the tree trunk at an

Ly from the ammureline to the height of the second

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angle of about 60 degrees at about two-fifths of the height of the tree and anchored at the ground either to notched stakes which have been driven into the ground at an angle away from the tree so that the tops of the anchor stakes are below finished grade, or (where underground utilities are within four feet of finished grade) to deadmen placed at least 3 feet below finished grade. A wood or metal flag shall be secured to each guy a few inches above ground.

about each tree and the creosoted end shall be driven vertically into the ground to a depth of 2 1/2 to 3 feet in such manner as not to injure the ball or roots. These shall be fastened to each stake at a height of about 5 feet by means of two strands of wire. Stakes shall be uniform in height and placed according to the diameter of the tree trunk, as follows:

3 to 6 inches - 3 stakes

2 to 3 inches - 2 stakes

2 inches or less - 1 stake

- (c) Permanent tree guards shall be set as specified and trees securely fastened thereto by 3-way guys consisting of two strands of wire passed through rubber hose to protect the bark.
- (d) Wrapping. Promptly after planting, the trunks of all trees designated to be wrapped shall be strapped spirally from the groundline to the height of the second branch. All wrapping shall be neat and snug and the material

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(b) Staking. Stakes shall be equally spaced short each bree and the creosoved end shall be driven vertable. It is not to the ground to a depth of 2 1/2 to 3 feet in such manner as not to injure the ball or roots. These shall be fastened to each stake at a height of about 5 feet by means of two strands of ware. Stakes shall be uniform in height and placed monording to the dismeter of the tree trunk, as follows:

3 to 6 inches - 3 stakes
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(d) Wapping. Premptly after planting, the winds of all trees designated to be wrapped shall be strapped prelly from the groundline to the height of the second stand. All wrapping shall be nest and snug and the material

shall be held in place by a suitable cord.

- (7) Mulching. All plants shall be mulehed with a 2-inch layer of well-rotted manure within 2 days after planting.

 This mulch shall entirely cover the area of the planting pit, bed, or saucer around each plant.
 - (g) Lawns. The field, amouthed, and with the stones and
- (1) All areas not required to be developed otherwise shall be sprigged and sodded to grass. The shall be sprigged and sodded to grass.
- (a) If construction is completed at a time out of season for sprigging and sodding with Bermuda grass, all areas not required to be developed otherwise shall be seeded to Italian Rye at the rate of 5 lbs. to every 1000 square feet.
- (2) Preparation of Subgrade. The subsoil shall be graded and uniformly compacted so that it will be aparelled to the finished grade. The subgrade material shall be loosened and mixed to a depth of two to four inches and all stones over two inches size, sticks and rubbish removed.

 No heavy objects except lawn rollers shall be removed over the lawn areas after the subgrade soil has been prepared unless the subgrade soil is again graded and loosened as specified above before topsoil is spread.
- (3) Finished Grading lawn areas. After the subgrade
 soil has been prepared, topsoil shall be spread evenly thereon
 and lightly compacted. No topsoil shall be spread in a
 frozen or muddy conditions.
 - (a) Areas to be seeded or sprigged shall be

sell be held in place by a suitable cord.

- (7) <u>Walching.</u> All plants shall be mulched with a 2-inch layer of well-rotted manure within 2 days after planting. This mulch shall entirely cover the area of the planting pit, bed, or saucer around each plant.
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 - (a) Areas to be seeded on sprigged shall be

brought to finished grade and smoothed.

- (b) Areas to be sodded shall be brought to within the thickness of the sod of the finished grade.
 - (c) Allowance for settlement shall be made.
- (d) Areas where the topsoil has not been removed shall be scarified, smoothed, and sticks, stones and rubbish shall be removed.
- (e) Applying arsenate of lead. Arsenate of lead shall be applied at the rate of ten pounds to 1000 square feet to the finished surface of the topsoil. It shall be thoroughly mixed with 25 times its own volume of surface and then immediately and thoroughly watered in.
- (4) Applying Lime. Lime shall be applied at the rate of 75 pounds to 1000 square feet to the grass areas being prepared for planting.
- (5) Applying Fertilizer. Commercial fertilizer shall
 be applied at the rate of 50 pounds of 1000 feet to the grass
 areas being prepared for planting. Fertilizer may be applied with
 seed.
 - (h) Planting of Lawns.
- (1) Sowing of seed. Immediately before any seed is to be sown, the ground shall be scarified as necessary and shall be raked until the surface is smooth, friable, and of uniform fine texture. Sown areas shall be seeded evenly with a mechanical

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- (b) Areas to be seeded shall be brought to within the thickness of the sed of the finished grade.
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spreader at the rate of 2-1/2 pounds to 1000 square feet of area, lightly raked, rolled with a 200 pound roller, and watered with a fine spray. The method of seeding may be varied at a discretion of the Contractor on his own responsibility to establish a smooth, while grassed lawn.

- preferably parallel with contours, shall be opened to the depth necessary to insure covering of sprigs to a depth of two inches after compaction. As soon as practical after opening, before soil is dried, cut sprigs shall be placed in the furrows continuously with the ends overlapping, approximately one cubic yard of sod should be used for sprigs per 1000 square feet. The sprigs shall be covered immediately, the surface leveled to established grade, cleaned, suitably compacted, and thoroughly soaked by watering with a fine spray. The method of planting sprigs may be varied at the discretion of the Contractor on his own responsibility to establish a smooth, uniformly grassed lawn.
- (3) Laying of sod. Before any sod is laid all soft

 spots and inequalities in grade shall be corrected. Fertilizer

 spread shall be raked in. Sod shall be laid so that no voids occur
 and tauped or rolled. Screened topsoil shall be brushed or raked

 over the sodded area and the sod shall then be thoroughly watered.

 The completed sodded surface shall be true to finished grade even
 and firm at all points.

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- (3) Laying of sod. Before any sod is laid all soft spots and inequalities in grade shall be corrected. Fertilizer spread shall be raked in. Sod shall be laid so that no voids occur and tapped or rolled. Someoned topsoil shall be brushed or raked over the sodded area and the sod shall then be thoroughly watered.

 The condeted sodded surface shall be true to finished grade even and firm an all points.

- (a) Sod on slopes steeper than 2 to 1 shall be held in place by wooden pins about one inch square and about six inches long driven through the sod into the soil until they are flush with the tops of the sod.
- (b) Strip or spot sod shall be placed so that the surface of the compacted sod will be slightly below the surrounding surface soil.
- (4) Slopes of Banks. At the option of the contractor sod may be used for establishing grass on the slopes or banks in lawn areas.
- (i) Clean Up. Any soil, manure, peat of similiar material which has been brought onto paved areas by hauling operations or otherwise shall be removed promptly, keeping these areas clean at all times. Upon completion of the planting all excess soil, stones and debris which has not previously been cleaned up shall be removed from the site or disposed of as directed by the Supervisor. All lawns and planting areas shall be prepared for final inspection.

 5. MAINTENANCE

Maintenance shall begin immediately after each porsion of lawn and each plant is planted and shall continue in the accordance with the following requirements.

(a) Lawns shall be protected and maintained by watering, and replanting as necessary for at least 30 days after completion of lawn operations and as much longer as is necessary to establish

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- Maintenance shall begin immediately after each poratom of lawn and each plant is planted and shall continue in the accordance with the following requirements.

SERVICE ACTOR

(a) Lawns shall be protected and maintained by watering, and replanting as necessary for at least 30 days after completion of law operations and as much longer as is necessary to establish

- a uniform stand of the specified grasses and until acceptance.

 Scattered bare spots, none of which is larger than one square

 foot, will be allowed up to a maximum of 3 percent of any lawn area.
- (b) New planting shall be protected and maintained until the end of the lawn maintenance period or, if installed after the lawn maintenance period, until installation of planting is completed.

 Maintenance shall include watering, weeding, cultivating, mulching, tightening and repairing of guys, removal of dead material, resetting plants to proper grades or upright position and restoration of the planting saucer, and other necessary operations. If planting is done after lawn preparation, proper protection to lawn areas shall be provided and any damage resulting from planting operations repaired promptly.
- (c) Repairs to Lawns or Replacements of Plants necessary
 during the maintenance period due to the removal, loss or damage
 resulting from occupancy of dwelling units, vandalism, or acts of
 neglect on the part of others may be made on the order of the
 Supervisor and will be at their expense.

 6. INSPECTION FOR ACCEPTANCE.
- (a) Inspection of the work of Lawns and Planting to determine completion of contract work, exclusive of the possible replacement of plants, will be made by the County Commissioners at the conclusion of the maintenance period upon written notice requesting such inspection submitted by the

- 39 -

smilon stand of the specified grasses and until acceptance.

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· INPROTTON FOR ACCEPTANCE.

Contractor at least 10 days prior to the anticipated date. The conditions of lawns will be noted and determination made by the Landscape Architect whether maintenance shall continue in any part.

- (b) Acceptance. After inspection, the Contractor will be notified in writing by the County Commissioners of acceptance of all work of the Division, Lawns and Planting, exclusive of the possible replacement of plants subject to guaranty, or, if there are any deficiences, of the requirements for completion of the work. Lawn Maintenance or other work remaining to be done shall be subject to reinspection before Acceptance.
- (c) Acceptance in part. The work of lawns and planting will be accepted in part by the County Commissioners upon written application by the Contractor provided the work offered for acceptance comprises all of the work of this Division entirely completed, including Lawn Maintenance, but exclusive of the possible replacement of plants, located within a continuous area which is a substantial portion definitely separated from the remainder of the site by roads, walks, fences, other structural barriers, or readily defined topographical features.

7. PLANT GUARANTY AND REPLACEMENT

(a) Guaranty. Plants shall be guraanteed for the duration of one full growing season, beginning April 1 and ending November 1, after planting, and shall be alive in satisfactory

- 40 -

Contractor at least IC days prior to the anthological date. The conditions of lawns will be noted and determination made by the lardscape architect whether maintenance shall continue in any part.

(b) Acceptance, After inspection, the Contractor will be notified in writing by the County Commissioners of acceptance of all work of the Division, Lawns and Planting, exclusive of the possible relacement of plants subject to guaranty, or, if there are any deficiences, of the requirements for completion of the work. Lawn witherance or other work remaining to be done shall be subject to reinspection before Acceptance.

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Insted within a continuous area which is a substantial portion definitely separated from the remainder of the site by reads, the structural barriers, or readily defined topographical features.

(a) Guaranty. Plants shall be guraanteed for the duration of one full growing season, beginning April I and ending November 1, after planting, and shall be alive in satisfactory

growth at the end of the guaranty period.

- (b) Replacement. At the end of the guaranty period, inspection will be made by the County Commissioners upon written notice requesting such inspection submitted by the Contractor at least ten days before the anticipated date. Any plant required under this contract that is dead or not satisfactory in growth, as determined by the County Commissioner, shall be removed from the site, these and any plants missing, due to the Contractor's negligence shall be replaced as soon as conditions permit, but during the normal planting season. In case any of the condition and satisfactory establishment of the rejected plant is questioned, the Contractor may elect to allow such plant to remain through another complete growing season at which time the rejected plant if found to be dead, in an unhealthy or badly impaired condition, shall be replaced.
- (c) Materials and Operations. All replacements shall be plants of the same kind and size as specified in the Plant List. They shall be furnished and planted as specified under new planting; the cost shall be borne by the Contractor, except for possible replacements resulting from removal, loss or damage due to occupancy of the project in any part, vandalism, or acts of neglect on the part of others.
- (d) Costs of Plant Replacements. A sum sufficient to cover the estimated cost of possible replacements, including materials and labor, will be retained by the County Commissioners and paid the Contractor only after all replacements have been made and approved.

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Priice		growth at the end of the guaranty period.
Pr		(b) Replacement. At the end of the guaranty period, inspection
the made by the		will be made by the County Commissioners upon written notice request-
Root & Size Quantity	ing such inspection submitted by the Congractor at least ten days	
		before the anticipated date. Any plant required under this contract
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58 45 14 37 26 22 300 11 14 B&B 6'-8' BR 41-51 B&B 5'-7' B&B 5'-7' Can 2 yr. BR 3'-5' BR 31-51 BR 3'-5' BR 3'-5' Seed Southern Waxmyrtle African Lovegrass Rock Cotoneaster Common Name Trees Shortleaf pine American Beech Black Locust Serviceberry White Ash Persimmon Hackberry Sourwood Sweetgum Sycamore Grass Cotoneaster horizontalis Celtis pumilla georgiana Liquidambar styraciflua Eragrostic abyssinica Amelanchia canadensia Platanus occidentalis Robinia Pseudoacacia Diospyros virginiana Oxydendrum arboreum Berberis julianae Fagus grandifolia Myrica cerifera C.p.8 P.0. Ea F.B. Me Me

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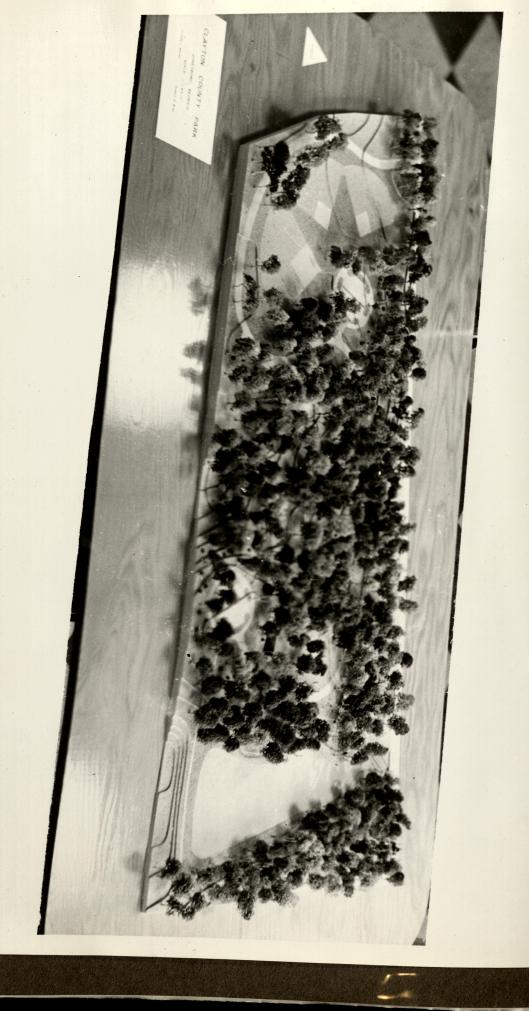
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Contractor only after all replacements have been made and

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