Landscape Design

for

Milledgeville State Hospital

Milledgeville, Georgia

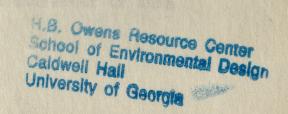
by

Roger W. Davis
David J. Klassen
Raymond K. Thomaier

A Terminal Problem Presented for
Degree of Bachelor of Landscape Architecture

Department of Landscape Architecture
University of Georgia
Athens, Georgia

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their therapy. A Rehabilitation Garden

The Milledgeville State Hospital is located near the city of Milledgeville, Baldwin County, Georgia. It is centrally situated in the state, 93 miles W.S.W. of Augusta, 93 miles S.E. of Atlanta, and 72 miles south of Athens. The hospital accommodates 12,000 mental patients and is operated by the state of Georgia.

It is desired that a garden featuring perennials and flowering shrubs be provided on approximately 10 acres of the campus. An appropriate site is available near the Rivers Building complex bordered by Rivers Drive to the northeast and Vincent Highway to the east. District II of the Garden Club of Georgia will sponsor the preparation of the necessary landscape development plans.

The primary function of this garden as requested will be the rehabilitation of the patients. Contact with nature and garden therapy has become an important part of the program at the State Hospital. Such a garden development will also enhance the appearance of the hospital grounds. The garden is to be designed for seasonal interest and low maintenance with the existing trees which are appropriate for inclusion in the overall scheme retained.

It is required that the general character of this

I. STATEMENT OF THE PROBLEM

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proposed development should be designed in a free and unregimented manner. It is assumed that patients will
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their therapy.

The garden shall include the following developed areas:

- 1. Borders and beds of flowers and shrubs, with one small portion designed especially for use by blind patients.
- Open lawn areas, tree shaded areas, and sitting areas.
- 3. Naturalistic paths for observing nature as well as walks for viewing the beds and borders, and for use by the blind patients.
- shelter for 100 persons with rest room facilities and adjoining paved terrace.
- Entrance road and parking for 10 to 15 cars and 2 to 3

 Labuses.

 Clinical chaptains, recreation therapists and sides, excapational therapists and sides, business administrators,

 vocational rehabilitation counselors, evaluators and

 supervisors, and a large number of professional staff members
 in the various business, clerical, and engineering vocations.

In 1964 the hospital admitted a total of 6,054 new patients. Also received were 3,579 patients who returned from furlough making the total intake for the year 9,633 or an average of 603 admissions per month. To balance this off, some 700 patients per month died. At the end of June

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1963 there II. MILLEDGEVILLE STATE HOSPITAL

A. History

the hospital.

Georgia's only neuropsychiatric hospital is located in Milledgeville, Baldwin County, Georgia. With a present resident population of approximately 12,570, it is the largest mental hospital in the world. Founded in 1842, the hospital has grown until it now includes a total of 135 buildings of various types spread over a thousand acre campus. Additionally included in the hospital property are some 9,000 acres of farm land which includes 540 acres in crops, 2,000 acres in pasture, and 2,600 in woodland.

significant advances in the hospital program

B. Administration stitution; a considerable increase in the

The employees include doctors, registered nurses, psychiatric adds, clinical psychologists, psychology technicians, social workers, social work aides, music therapists, clinical chaplains, recreation therapists and aides, occupational therapists and aides, business administrators, vocational rehabilitation counselors, evaluators and supervisors, and a large number of professional staff members in the various business, clerical, and engineering vocations.

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1963 there were 17,683 patients currently on the books of the hospital.

Some significant advances in the hospital program have been made in recent years. These have included a reorganization in the social work department now bringing it up to the standard demanded by the professional accrediting associations, the accreditation of the department of psychology for internship training by both the University of Georgia and the University of Florida, and the employment of several nationally known psychologists as consultants; the employment of the first full time clinically trained chaplain in the institution's history; the building of five chapels for the institution; a considerable increase in the use of volunteers in the various operations of the hospital; one day seminars on mental illness which have been presented for more than 5,000 college and high school students; and a large number of on going research projects in every area of patient care and treatment.

C. 1962 Reorganization

In 1962 the hospital was reorganized into five psychiatric units of approximately 2,000 patients each, a veterans hospital, a physical treatment unit and a halfway house. These units function essentially as seperate hospitals, thereby achieving close administrative cohesion within each unit and permitting considerable freedom in

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methods of patient care and treatment within the general policy and framework laid down by the superintendent.

A. City Plan

Milledgeville, the county seat of Baldwin County, is a progressive small city, located some thirty miles north of Georgia's Fall Line wich separates the Piedmont and Coastal Plains regions. It was the oppital of the state from 1807 until 1868. It has the distinction of being one of a small number of American cities which was planned from

Situated on the west bank of the Oconee River at its confluence with Fishing Creek, the old portion of the city was designed in a gridiron pattern. The plan provided for four 20-acre rectangular open spaces, with the main street which led from the river, 120 feet wide and all other streets 100 feet in width. The highest land was reserved for the imposing State House Square, located three-quarters of a mile from the boat and raft landing on the Oconce River. The other three 20-acre rectangles came to be used and known as Government Square, Penicentiary Square and Cemetery Square, respectively. 1804 190411 180411

Historic and Architecturally Significant Buildings and

Milledgeville was the capital of Georgia when "cotton was king", and during the time when Go H.B. Owens Resource Center

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III. CITY OF MILLEDGEVILLE

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A. City Plan of the South, depended elmost entirely on an

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B. <u>Historic and Architecturally Significant Buildings and Gardens</u>

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as well as all of the South, depended almost entirely on an agricultural economy with the production of cotton playing the most important role. Cities and towns were few and far between because the majority of the population lived on farms, some of which were extensive plantations.

Milledgeville, nevertheless, in its strategic position as the state capital performed the function of being one of Georgia's most important towns from the time of its founding until 1865. In 1829 it had a population of 1,599 and contained 170 houses.

Many of these buildings were beautiful homes built along the commodious tree-lined streets. At the same period a number of elegant plantation complexes, each of which included an impressive residence, an office, barns and other out-buildings, etc., and beautiful gardens, were cotton-producing, developed in Baldwin and surrounding counties.

Milledgeville served as the cultural, educational and social center of the region and the political center of the state.

The old State House building (circa 1840), presently occupied by the Georgia Military College, is one of America's choice examples of Gothic Revival architecture; the Masonic Lodge building with its three-story spiral stairway and handsome rooms on the top floor is a splendid surviving

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structure of the Federal style of architecture. Several choice examples of Federal and Greek Revival residential architecture can be seen within the city limits today; two of the most notable being the Sanford House and the Governor Johnston-Ennis houses of the Federal period, and the Classic Revival Governor's Mansion, the latter being used as the home of the President of the Georgia Woman's College. dearch in the treatment of mental patients, a

Unfortunately for posterity, within the past three decades, a number of architecturally distinguished plantation residences in the area of Mt. Nebo and Westover, to name two gems, have inadventently been destroyed by fire or have come to some other kind of ill-fated demise.

C. Garden Tradition Persists

Residents of Baldwin County have inherited a knowledge of agricultural pursuits and a fine tradition of gardening. This is noted today in the neat, well planned and maintained home grounds, the college comprises, streets, grounds of public buildings, and the cemetery in Milledgeville.

Garden Clubs

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as a guiding influence in community landscape development and in the preservation of noteworthy architecture as well as the preservation of the techniques of garden making.

Through the Milledgeville Garden Club, the Garden Club of Georgial learned of the need for a program of garden therapy for the various hospitals in the state, including the Milledgeville State Hospital. It was emphasized that recent research in the treatment of mental patients, a constructive contact with nature in the form of planting, growing or maintaining plants - and especially ornamental flowers, vines, bulbs, lawn grasses, shrubs and trees, has proven to be of tremendous therapeutic value for persons so afflicted.

E. Landscape Development Plan

In 1965 District No. II - the Azalea District of the Garden Club of Georgia with Mrs Claude Brown of Waynesboro, Georgia, serving as Director, determined to initiate for the state organization a method whereby a Landscape Development Plan could be designed for a garden on the campus of the Milledgeville State Hospital. Professor Hubert B. Owens, Chairman of the Division, was contacted and arrangements were completed for the Azalea District to provide the necessary funds for designing such a plan which would be

¹The Garden Club of Georgia had a membership of approximately 22,500 members in 1965.

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appropriated for its purpose, and in scale with the nearby buildings and large expanse of the attractive site the Director of the hospital could make available for this unique project.

Professor Owens and three seniors in the Department of Landscape Architecture, University of Georgia, conferred with Mrs Frank Evans of Milledgeville, who is the Garden Therapist for Milledgeville State Hospital, chairman for the Garden Club of Georgia; Dr. and Mrs McKHanMacKinnon, Mr. E. T. Newsome, Superintendant of Grounds of the hospital. It was agreed that under the direction of Professor Owens, Roger Davis, David Klassen and Ray Thomaier would proceed with the preparation of the necessary landscape plans.

F. Final Landscape Plans for Rehabilitation Garden

Following a number of visits to the site, and conferences with Mr. Newsome and other personnel at the Hospital, Mrs. Evans, Mrs. Brown, Professor Owens, visiting Professor Wolfgang Oehme and other members of the staff of the Landscape Architecture Department, the final scheme which is herwith presented was designed.

The plan represents a contemporary, unregimented solution. It cannot be termed a "traditional" garden in the sense of an early 19th century Milledgeville type of garden - which would feature boxwood and old fashioned roses, bulbs, etc. The general plan is a scheme which is

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termed international contemporary.

The arrangement of the flower beds, borders, paths, shelter, terrace, walks, sitting areas, etc., is similar to what landscape architects in Scandinavia and other western European countires; Israel; Japan; South America; and various parts of the United States are designing. If one kind of plant might be designated the ear mark of this contemporary type of garden, as Boxwood was in the Anti-bellum garden of the early 19th century in the Milledgeville area, it would be ornamental grasses. These plants are, of course, used in combination with other perennials, bulbs, shrubs, etc. The various ornamental grasses - ranging in height from 6 inches to 10 feet, with their grace, interesting forms, textures and seasonal changes, will give this unusual garden which is destined to serve a very special purpose, a particular character and identity.

The garden has been planned so that it can be developed in seven or more stages.

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IV. LIST OF PLATES

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- II. Drawings

Cover Sheet

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IV, LIST OF PLATES

Protographs of Site

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7. Garden For Blind Plan-Planting bulber whereas 9. Garden For Blind Plan-Materials and Spot Elevation

10. Detailed Planting Plan days - went in head he 1. Detailed Planting Plan

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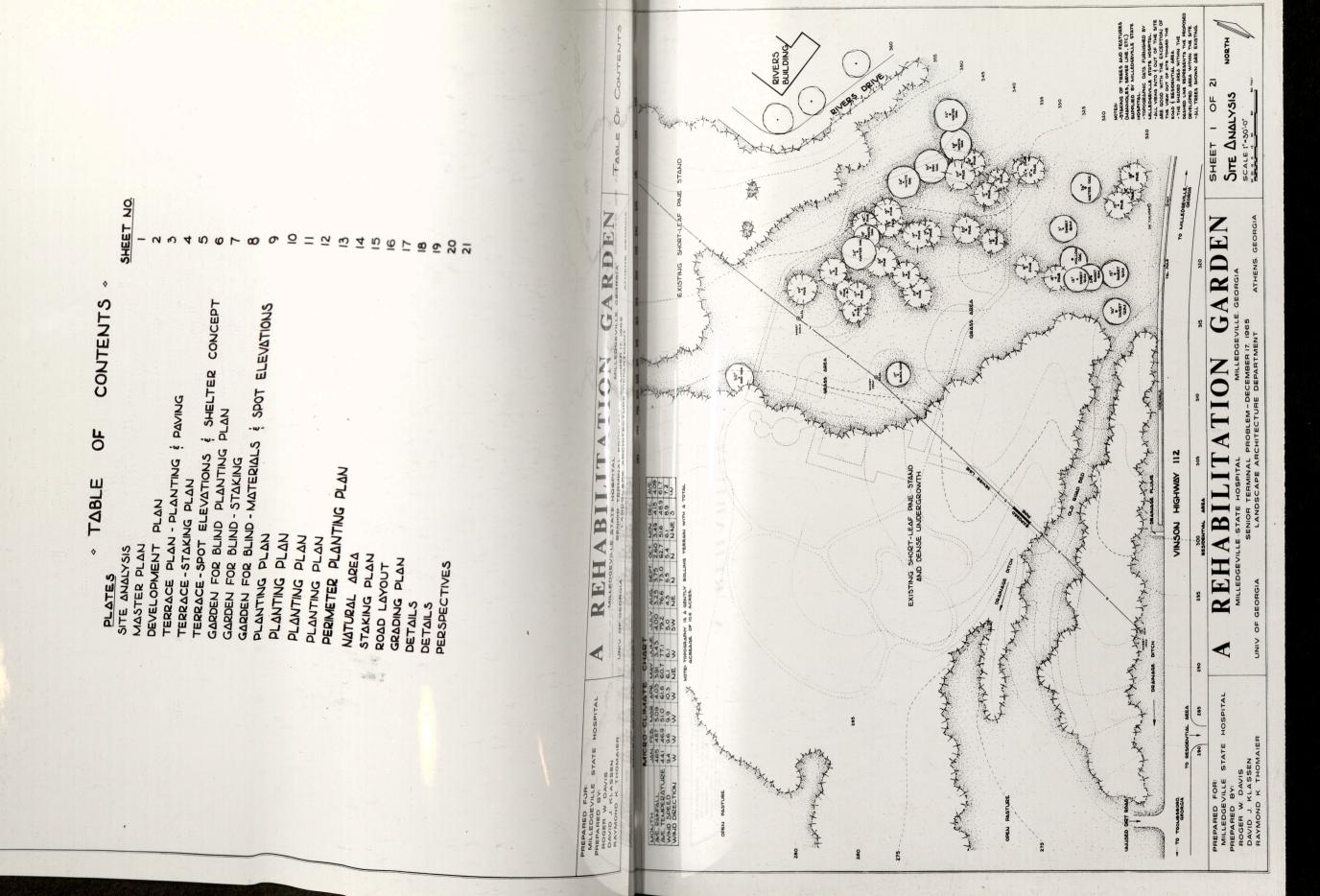


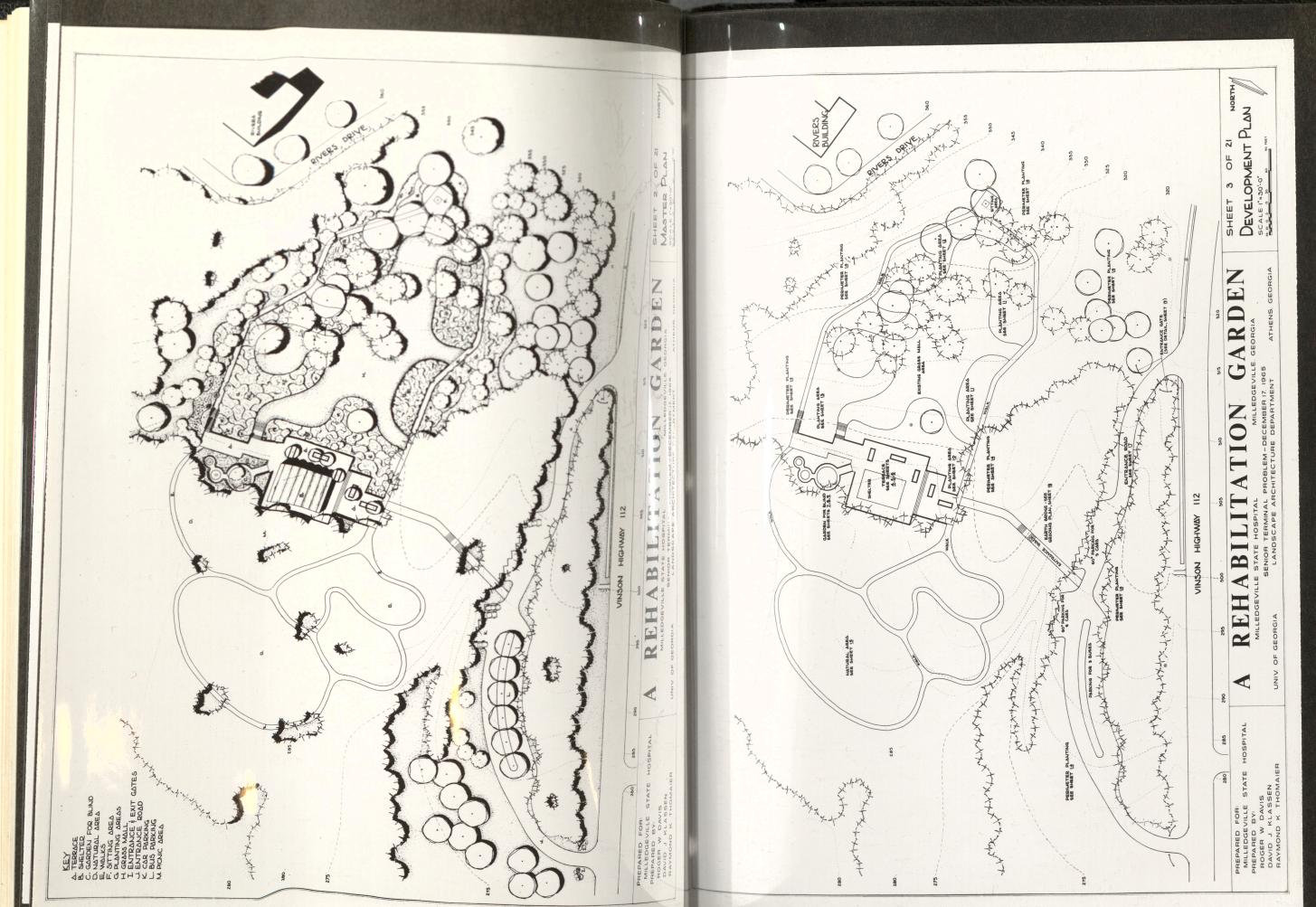
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MILLEDGEVILLE STATE HOSPITAL MILLEDGEVILLE, GEORGIA

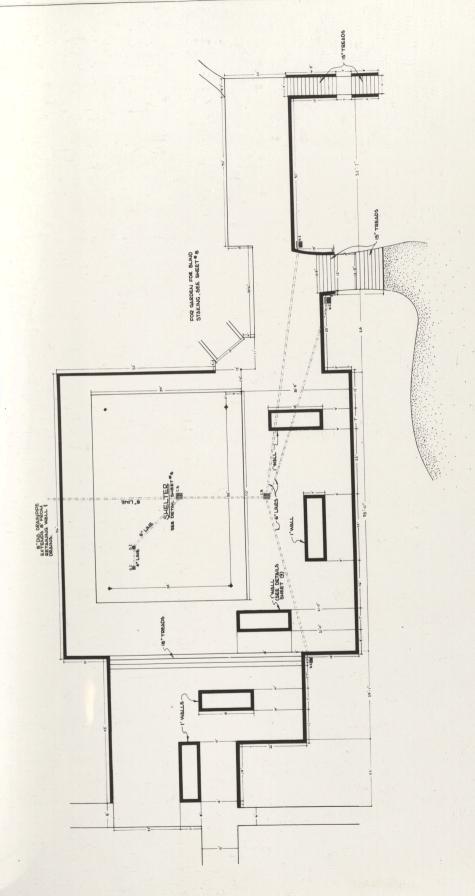
SENIOR TERMINAL PROBLEM
UNIVERSITY OF GEORGIA - LANDSCAPE ARCHITECTURE DEPARTMENT - ATHENS, GEORGIA

ROGER W. DAVIS
DAVID J. KLASSEN
RAYMOND K. THOMAIER
UNDER THE DIRECTION OF HUBERT B. OWENS





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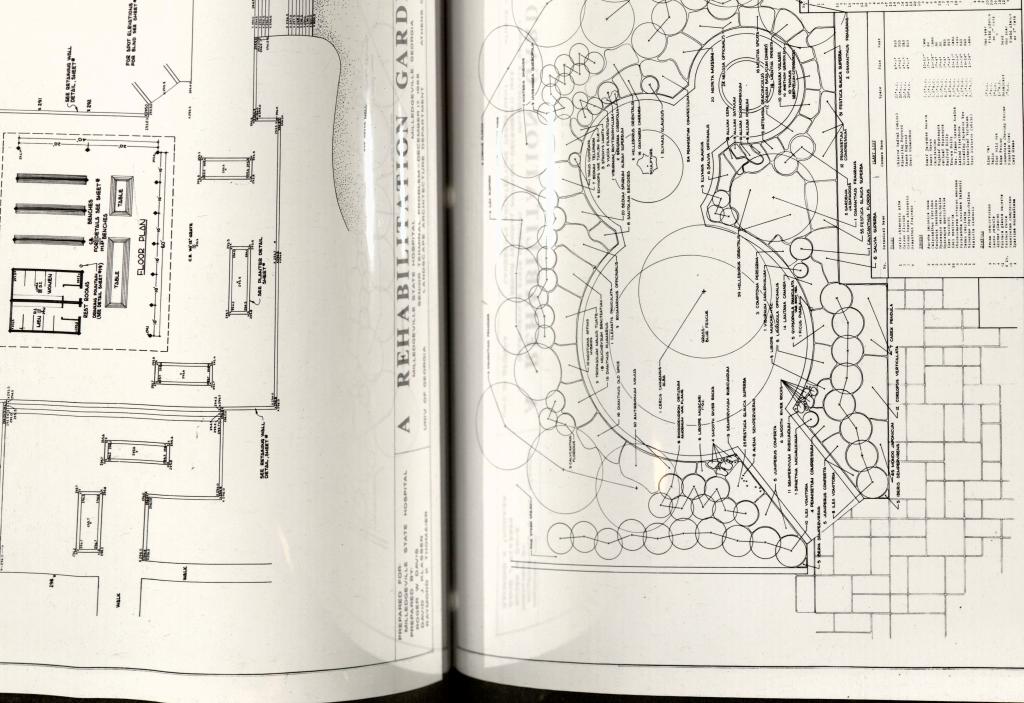
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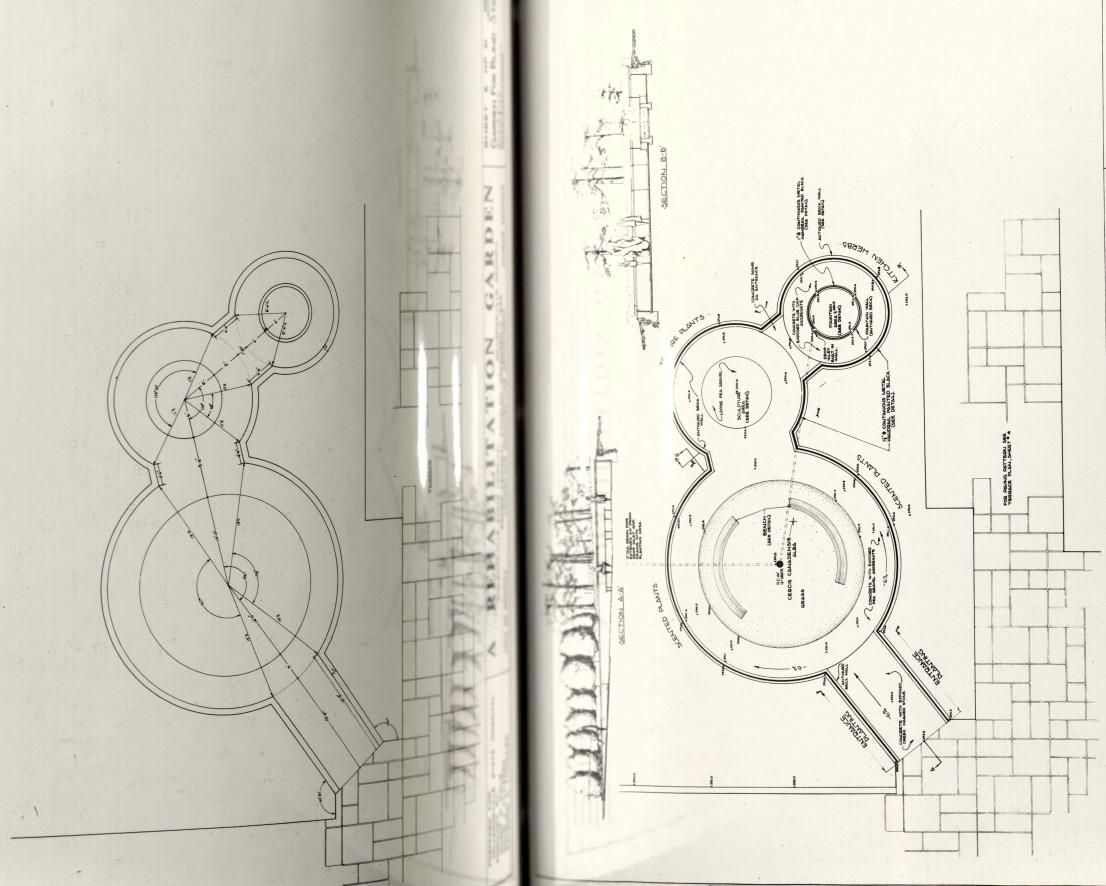
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REHABILITATION GARDEN
MILLEDGEVILLE STATE HOSPITAL
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965
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SHEET 5 OF 21
TERRACE STAKING PLAN
SCALE # 11.0

NORTH

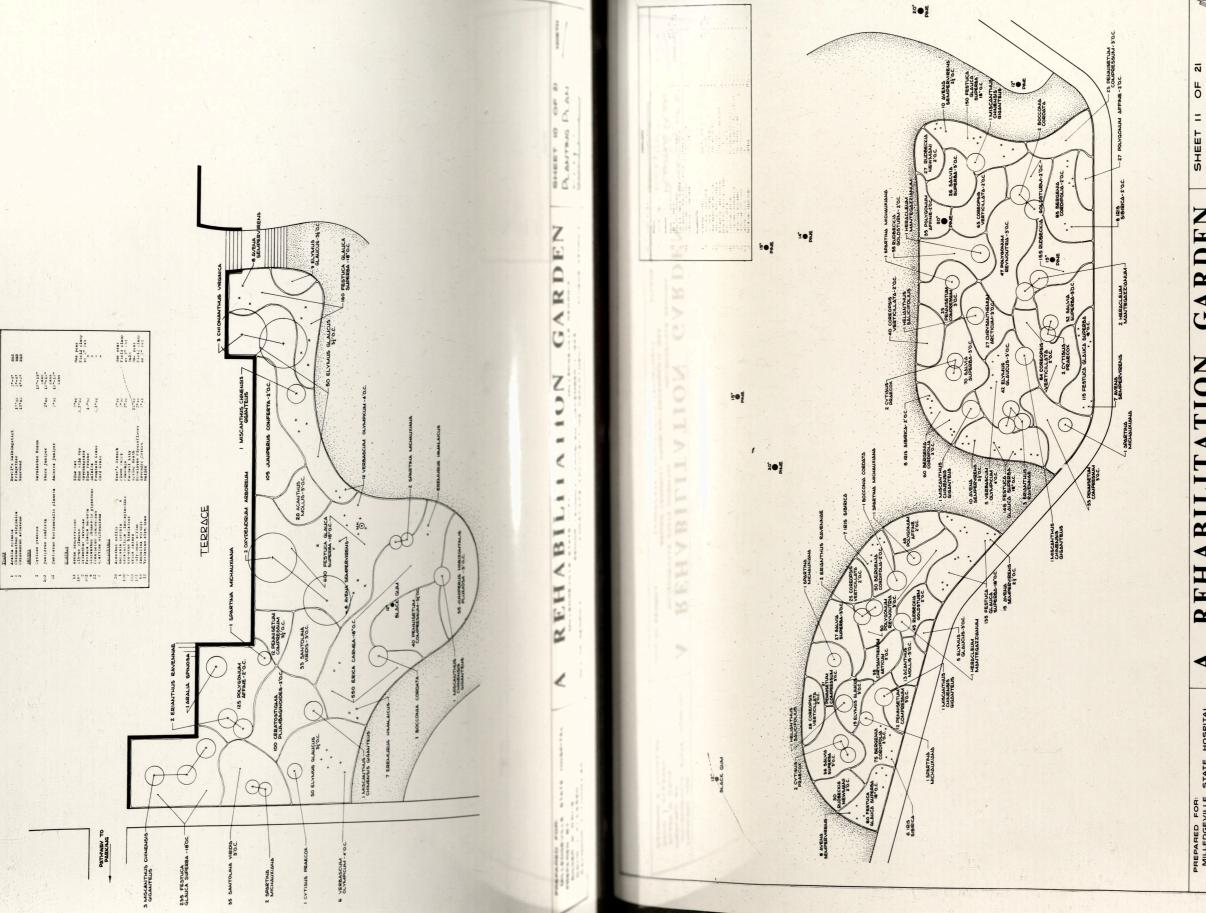




PREPARED FOR:
MILLEDGEVILLE STATE HOSPITAL
MPREPARED BY:
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REHABILITATION GARDEN
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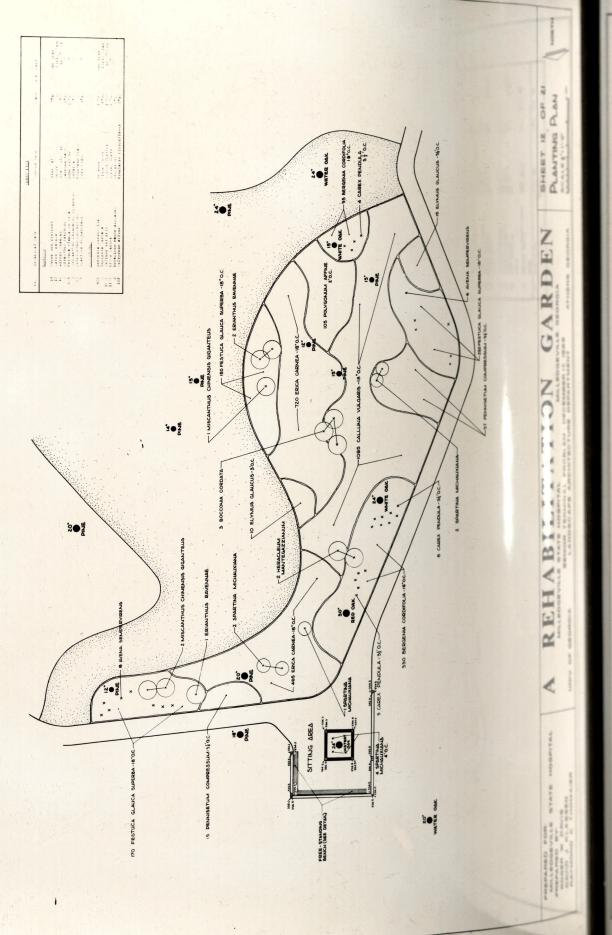
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GARDEN FOR BLINDMATERIALS & SPOT ELEVATIONS
SCALE # 11.0

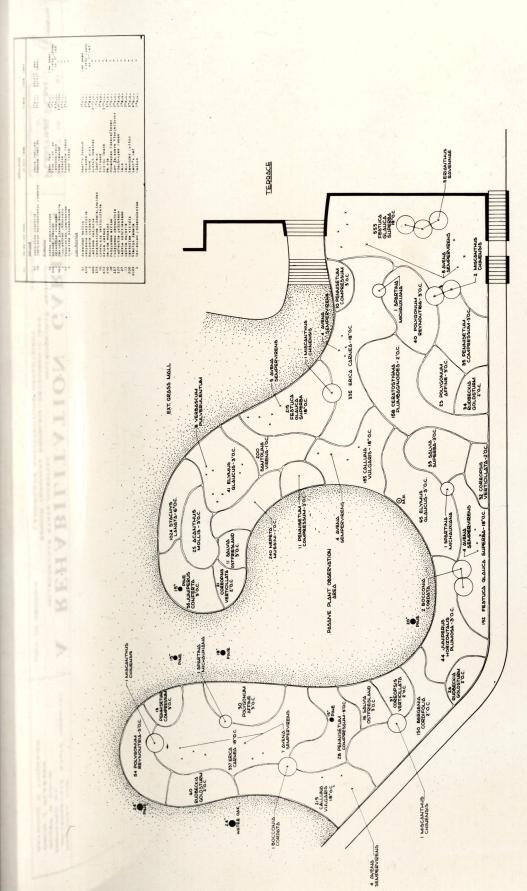


REHABILITATION GARDEN MILLEDGEVILLE STATE HOSPITAL MILLEDGEVILLE GEORGIA SENIOR TERMINAL PROBLEM - DECEMBER IZ, 1966 V

PLANTING PLAN

NORTH





PREPARED FOR:
MILEDGEVILLE STATE HOSPITAL
PREPARED BY:
ROGER W DAVIS
DAVID J KLASSEN
RAYMOND K THOMAIER

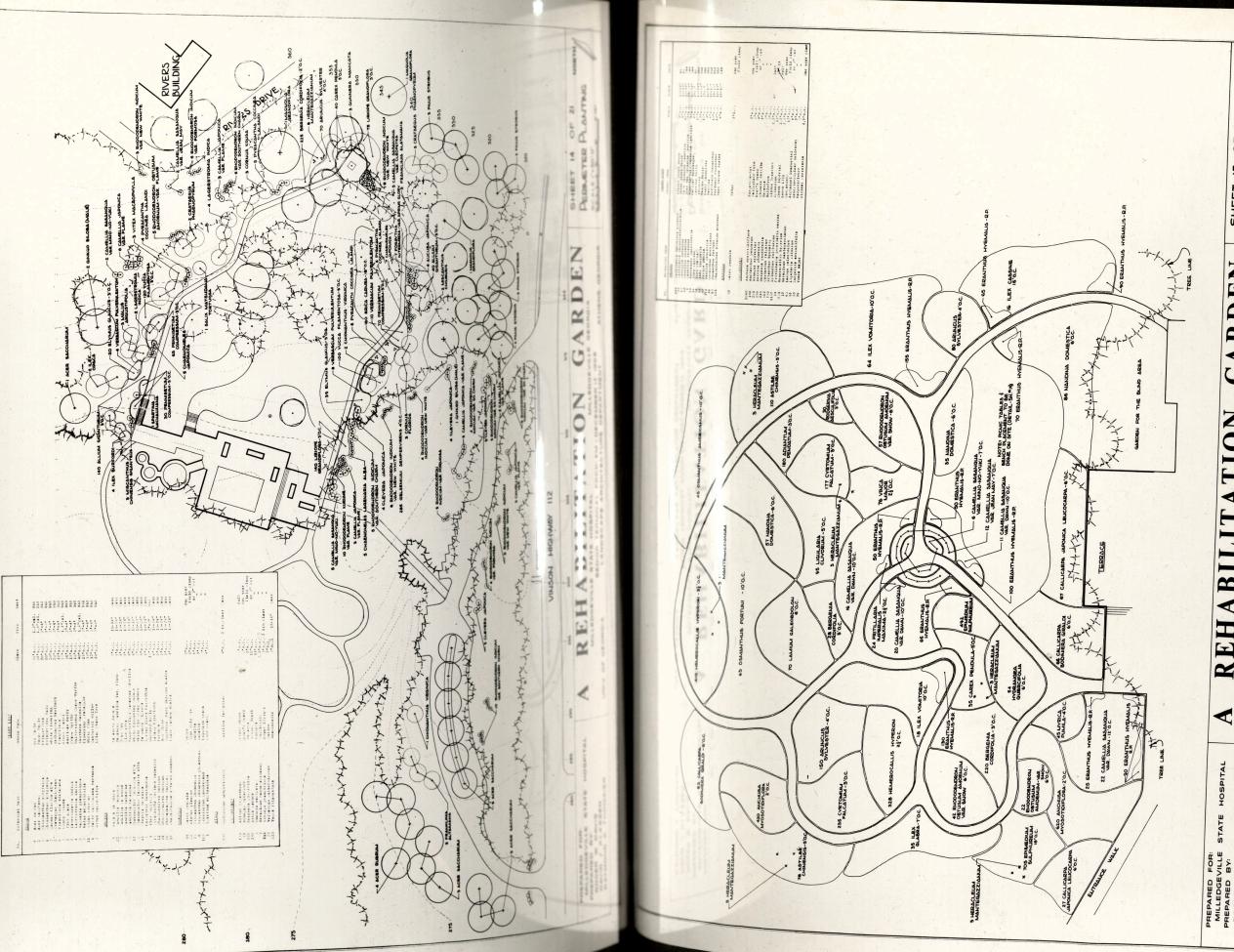
UNIV. OF GEORGIA

SENIOR TERMINAL PROBLEM - DECEMBER 17. 1965
LANDSCAPE ARCHITECTURE DEPARTMENT
ATHEN REHABILITATION MILLEDGEVILLE V

GARDEN

ATHENS GEORGIA

PLANTING PLAN SHEET 13 OF 21



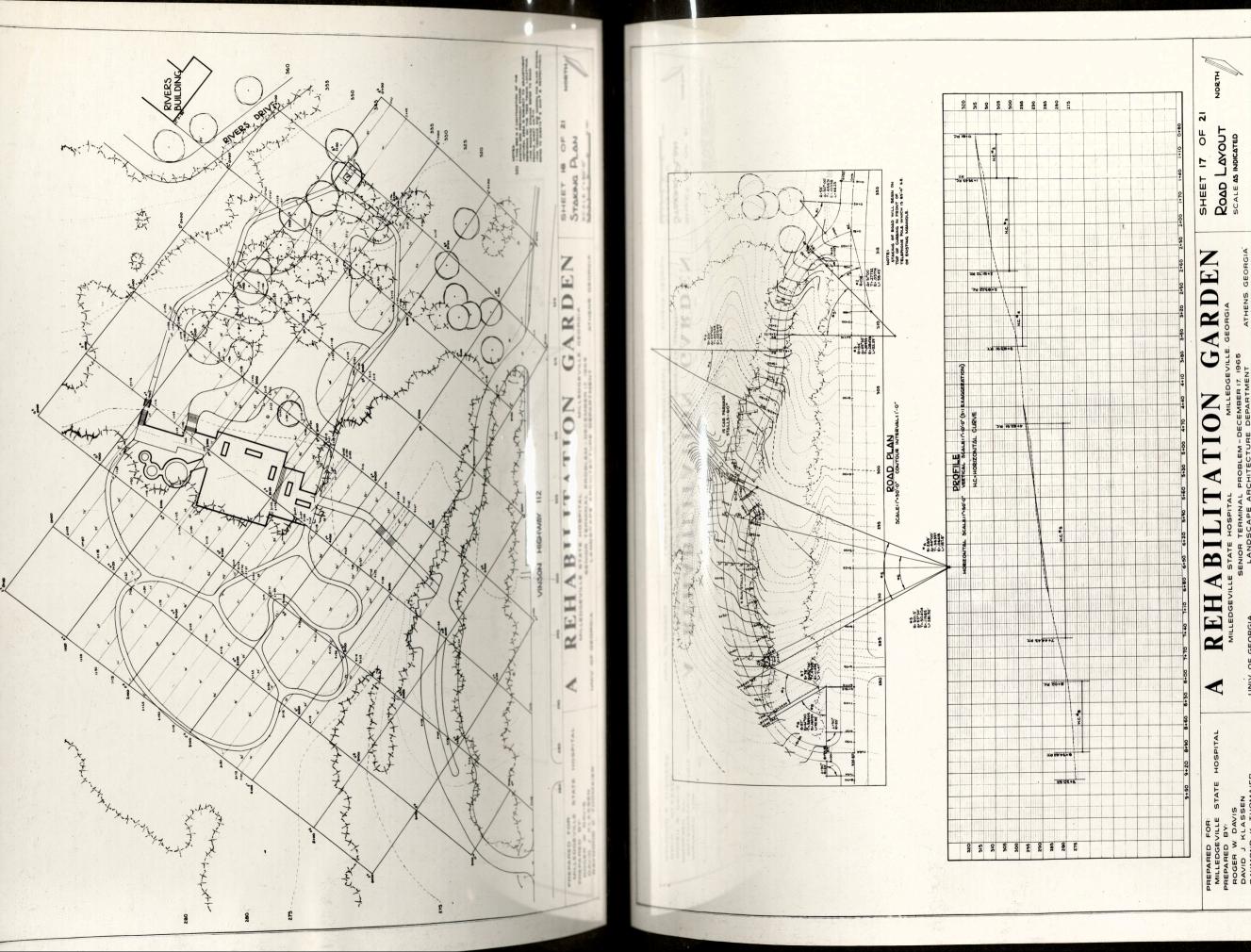
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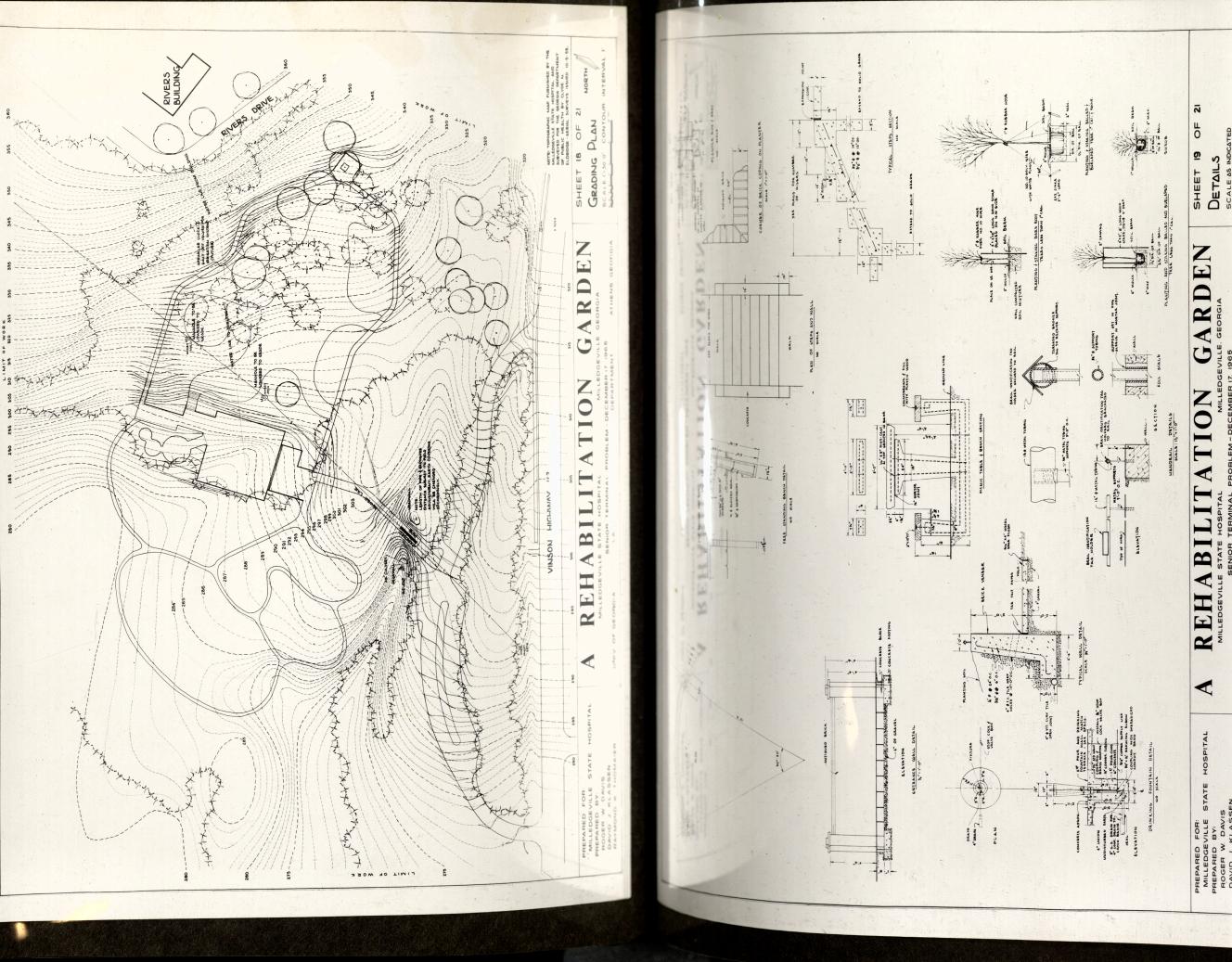
SENIOR TERMINAL PROBLEM - DECEMBER 17, 1965
LANDSCAPE ARCHITECTURE DEPARTMENT

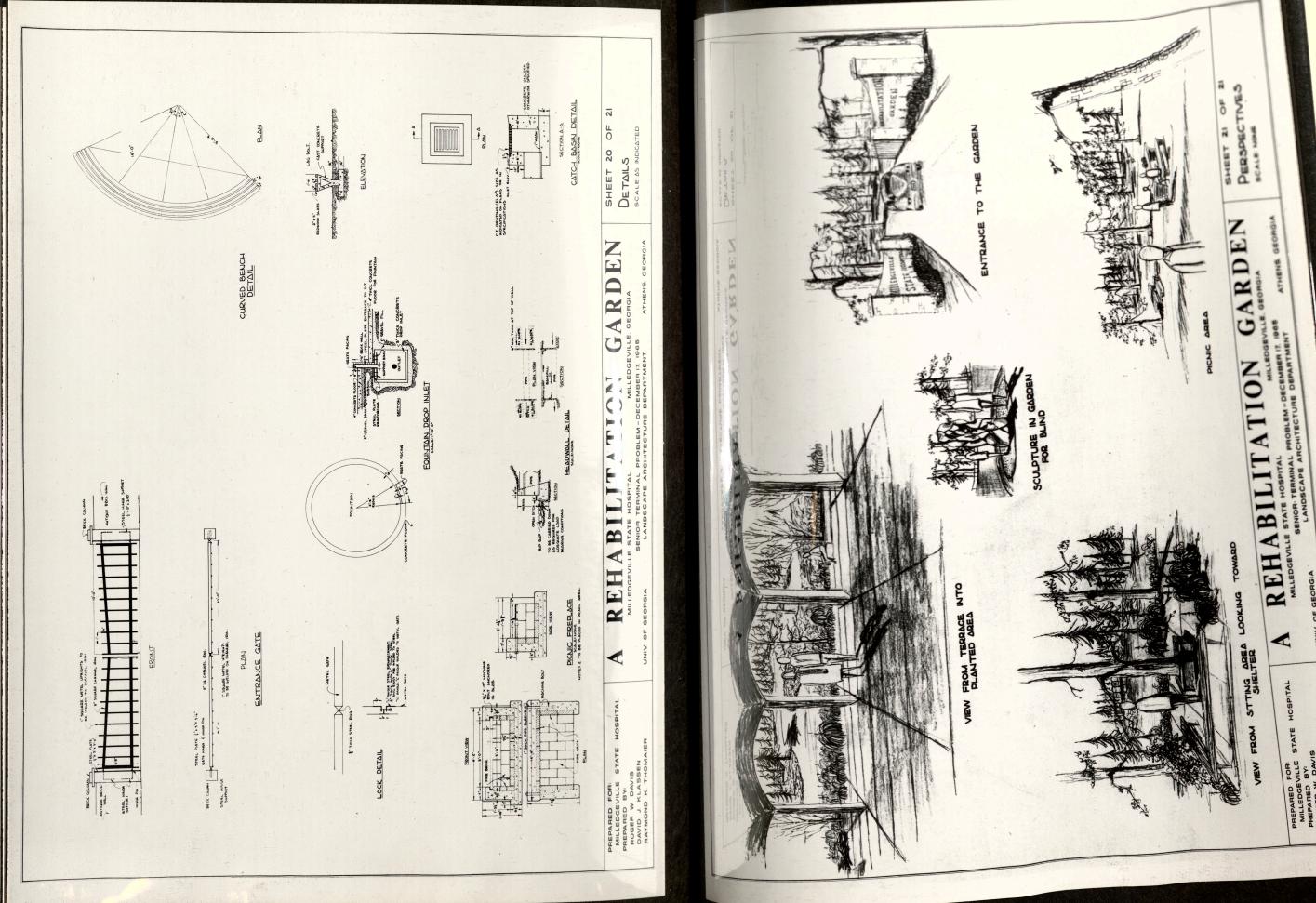
DREA SHEET 15

NATURAL SCALE: 1:00

NORTH









Plant

V. COST ESTIMATE

Project: A Rehabilitation Garden for the Milledgeville

State Hospital, Milledgeville, Georgia.

Computed by: Roger W. Davis, David J. Klassen, and Raymond K. Thomaier.

Job Description: The landscape development of a portion of the campus of Milledgeville State Hospital,
Milledgeville, Georgia.

D1 M	aterials:			
. Plant M		Size	Unit Price	Total
uan.	Taxus Plant	O.L. Al C	alls alls solve to a second to the second to	GT 1889 (D LEGIS) (SQ 10) (SQ 10) (SQ 10) (SQ 10)
	Viburmus Sheet 4 of 21			
rees	Wisteria simus			
6 3503	Cercidiphyllum	1.5" Cal	4.00	24.00
	japonicum Avena sempana			25 00
10	Eremurus himaliacus	bulle	2.50	25.00
7	Hemerocallus hyperion	l year plant	1.00	77.00
32	Liriope grandiflora	one year field clump or 3" pots Sub		6.40
	(Sheet 7 of 21)			
Trees	Cercis chinensis alba	61-81	8.00	8.00
1		41-51	4.00	12.00
3	Cornus florida	41-51	10.00	30.00
3	Cornus knousa chinensis Osmanthus fragrans	41-51	4.00	24.00
6	Osmanthus 11 05			

		10 mg	V. COST ESTEMA	
le le	Livenbe	LLIM ont m	of meaning module licenses a	Project:
			State Hospital, Milledger	Maria di Languagia
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00.8	00.8	18-19	. Gercis oninensis alba	
12.00	00.4	12.14	Cornus florida	
00.06	00.00	15.14	Corvus knouse chinensis	3
24.00	00.4	15-14	(Bhanthus fragrans	

bs:	Plant Plant	Size	Unit Price	Total
	Aucuba japonica nana	15"-18"	2.00	16.00
	Calycanthus floridus	31-41	3.00	12.00
	Gardenia jasminoides	1811-2411	2.00	4.00
	Hydrangea macrophylla	31-41	4.00	12.00
	Hydrangea quercifolia	31-41	4.00	36.00
1	Ilex vomitoria	31-41	4.00	72.00
	Ilex burfordi	31-41	5.00	20.00
8	Rhododendron obtusum amoenu	n 15"-18"	3.00	24.00
3	Pyracantha coccinea lalandi		3.50	10.50
1	Taxus cuspidata	1811-2411	2.50	2.50
1	Viburnum rhytidophyllum	18"-24"	3.00	3.00
1	Wisteria sinensis	18"-24"	10.00	10.00
rasse	dunal and 47 a (ward real and a			
8	Avena sempervirens or	ne year	1.50	10.00
	Trevia namparvirano	field cluster or 3" pot	1.00	7.00
7	Carex pendula	31	1.00	4.00
4	Elymus glaucus	11	.80	72.80
91 41bs	Festuca glauca superba Festuca rubra	Seed		b 2.40
36	Pennisetum compressum	One year field clur or 3" pots	aps 2.00	72.00
	Nepeta masini	11 11	5.00	5.00
1	Spartina michauxiana			5.85
Vine		3ª pot	3.00	3.00
1	Clematis paniculata	3" pot	2.00	2.00
1	Figus pumila	, 5		

Total	Unit Price	Size	Plant	Shrubs:
16.00	2,00	12n-Ten	Aucuba japonica nana	8
12.00	3,00	34-18	Calycanthus floridus	4
00.4	2,00	18"-24"	Gardenia jasminoides	2
12.00	4.00	31-41	Hydrangea macrophylla	3
36,00	4.00	34-16	Hydrangea quercifolia	6
72.00	4.00	31-15	Ilex vomitoria	18
20.00	5.00	31.41	llex burfordi	4
24.00	3.00	151-181	Rhododendron obtusum amoenum	8
10.50	3.50	1811-2411	Pyracantha coccinea lalandii	3
2.50	2.50	18"-24"	Taxus cuspidata	Ţ
3.00	3.00	18"-24"	Viburnum rhytidophyllum	1
10.00	10.00	18"-24"	Wisteria sinensis	1
			HETOTOLOGICAL PROPERTY OF A STATE	Grasses
10.00	1.50	year ield clumps r 3" pots	A. Comment of the com	8
7.00	1.00	33	Carex pendula "	7
4.00	1.00	11	Elymus graucus "	4
72.80	08.	77	Pestuca glauca superba "	16
04.5	4T/09.	Seed	Festuca rubra	Albs.
72,00	2.00	e year eld clumps 3" pots		36
5.00	5.00	11	Spartina michauxiana "	1
				Vines
3.00	3.00	3th pot	Clematis paniculata	I
2.00	2.00	3" pot	Figus pumila	I

an.	Plant		Size	Unit Price	Total
erennials 10	Allium schoenoprasum	fiel	year Ld clumps 3" pots	.50	5.00
9	Artemisia dracunclus	11	11	.50	4.50
2	Bergenia cordifolia	11	44 43	1.00	2.00
16	Centaurea cineraria	11	- TT	1.25	20.00
3	Comptonia peregrina	11	13	.65	11.95
12	Coreopsis verticillate	a 11	17	1.10	13.20
16	Dianthus - old spice	11	11	1.10	17.60
9	Echinodus ritro-taplo	11	9.9	1.25	11.25
4	Elymus glaucus	11	11	1.00	4.00
1	Gunnera manicata	11	11	15.00	15.00
5	Gypsophila paniculata	11	11	1.25	6.25
47	Helleborus orientalis		3/8/8/4/	2.00	94.00
10		11	97	.90	9.00
14	Iberis sempervirens	11	\$1.00mm	1.00	14.00
	Lantana camara	. 11	11	1.00	5.00
5	Lavandual officinalis	11	11	.50	12.00
24	Melissa officinalis	11	5 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.50	9.00
18	Mentha piperita		11	.90	16.20
18	Mentha spicata	11	11	.50	10.00
20	Nepeta mussini	11	11	.50	5.00
10	Origanum vulgare		3*.15	.65	5.85
9	Rosmarinus officinal		The State of Contract of Contr	.65	3.90
6	Salvia officinalis (dwar	f)	.65	3.90
6	Salvia superba	1			

LatoT	Unit Price	Size	Plant	Quan.	par. cont.	Plant	Size	Unit Price	Total
25.62				Perennials	8	Santolina ericoides	11 11	1.00	8.00
5.00	00.1	one year field clumps or 3" pots	Allium schoenopresum	OT	20	Sedum spurium album superbum	in cana	.65	13.00
4.50	.50	12 17	Artemisia dracunclus	ę	7	Sedum telephuim	11 . 11	.65	4.55
2,00	1,00	12 11	Bergenia cordifolia	2	24	Sempervium rubicundum	11 11	.50	12.00
20.00	1.25	Tt ti	Centaurea cineraria	16	3	Stachys lanata	11 11	.50	1.50
1.95	.65	tr tr	Comptonia peregrina	3	10 203	Thymus serpyllum	47 17	.50	5.00
13.20	1,10	IT IT E	Coreopsis verticillate	12	i		me year eld. clumps		3.00
17.60	1.10	11	Dianthus - old spice	16	3	Yucca filamentosa	eld clumps pote		
			Echinodus ritro-taplo	9	Annuals			1.00	109.00
11.25	1.25	11	blue		1	Allium cepa	Bulb	.50	2.00
4.00	1.00	11	Elymus glaucus	4	4	Allium porrum	Seed	.25	2.00
15.00	15.00	11	Gunnera manicata .	1	0	Allium sativum	Bulb	.50	2.50
6.25	1.25	11 11	Gypsophila panioulata	5)		Seed	. 25	2.50
94.00	2.00	ti u	Helleborus orientalis	7.4	10	Anethum graveolens	Seed	. 27	13.50
9.00	06.	14	Iberis sempervirens	1.0	50	Antirrhinum majus		. 25	4.00
14,00	1,00	11 37	Lantana camara.	14.	16	Helichrysum bracteatum	Seed	.30	3.00
5.00	1.00	tt tt	Lavandual officinalis	5	10	Nicotiana affinis	Seed	.25	3.00
12.00	.50	17 17	Melissa officinalis	45 -	12	Ocimum basilicum (dwar		1.25	6.75
9,00	.50	17 17	Mentha piperita	18	9	Tropaeolum majus tuate	Seed	ub Total	849.10
16.20	00.	17 17	Mentha spicata	18		Tropaeolum majus tuato		2.50	17.50
10.00	.50	17 17	Nepeta mussini			Sheet 10 of	21 ne year	1.00	550.00
5.00	08.	11 11	Origanum vulgare	1.0	frees	fi		.25	22.25
5.85	₹à.	11 11 8	Rosmarinus officinalis	6	1	Aralia spinosa	31-41	.7 600	12.00
3.90	.65	warf) "	Salvia officinalis (du	9	3	Chionanthus virginica	31-41	2.00	4.00
3.90	69.	Herman day H	Salvia superba	6	2	Oxydendrum arboreum	41-51 Sub T		2,302.50

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Oc. Oc.			11 12			35		11	2.00	70
New			77 19				Jeens sembervirens			
Avena sempervirens one year field clumps 1.50 21						Grasses				
Second S	5.00	.50	45 45		1.0		Avena sempervirens	one year	1.50	21
1.00 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	3.00	1.00	17 11	Yucca filamentosa	3	14	1	ield clumps		
Separate						100		44		109
00.5 05. dLud sqsp mufill 8 % Festuca glauca superba " .80 790 05.5 05. dLud muridse mufill 8 % Festuca glauca superba " .80 790 05.5 05. dLud muridse mufill 5 6 Miscanthus chinensis " 8.00 06.5 05. bee8 andlosverg municana 01 2.00 10.0 06.1 75. bee8 autem muridiffitha 06 06.2 06. bee8 muraestorid muscribiten 01 06.5 06. bee8 athfile sneltorin 01 06.6 06. bee8 athfile sneltorin 01 06.6 06. bee8 (through murilland mumico 51 06.6 07. bee8 athfile sneltorin 01 06.6 07. bee8 athfile 01 06.7 07. bee8 athfile 01 06.8 07. bee8 athfile 01 07. bee8 athfile 02 08. bee8 athfile 02 09. bee8 athfile					Annuels	109				10
00.2 62. bee2 murroq multin 8 6.00 40 02.2 62. bee2 endoevery murron 01 giganteus 7 2.00 10.0 03.21 72. bee2 endoevery murron 02 Pennisetum compressum 7 2.00 10.0 03.21 72. bee2 endoevery murron 02 Spartina michauxiana 7 5.00 2 00.4 62. bee2 muraedoend murron 10	2.00	07.	dInd	Allium cepa	4.	2				
02.2 03. died muvidae muilfa 6	2.00	.25	Seed	Allium porrum	8	995	Festuca glauca superba			
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2. 2. 2. 2. 2. 2. 2. 2.	2.50	. 25	Seed	Anethum graveolens	1.0			23	2.00	104
00.4	13.50	.27	Seed	Antirrhinum majus	50.)2		<i>5</i> 0		2!
3.00 66 00.0	4.00	.25	Seed	Helichrysum bracteatum	16	5			AL (MI)	
00.8 29. bee8 (frawb) municipal manufold 21	3,00	08.	Seed			Perennial	S			- 6
Bocconia cordata " 1.25 O1.948 Lator du8 " 50 5 Left for O1 toesd8						00	一 1900年1月1日 1月1日 10日 10日 10日 1日日		3.00	660
Ceratostigma plumbaginoides " .50 5 LE 10 01 jeed2 7 Eremurus himalaicus Bulb 2.50 1 Seconda dolla d						1			1.25	1
2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00				Tropaeotum majus tuate	X				.50	5
Eremurus himalaicus one year field clumps field clumps or 3" pots 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Balan J. P.			TO SO OF TOOR		200			2.50	1
Frica carnes one year field clumps on 3" pots 1.00 12 00.21 00.4 14-18 sounds audinancial 8 Santolina viridis 1.00 12 00.4 00.2 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.4 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12-14 mustodas murbasbyx0 2 18 University audinancial 1.00 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 00.5 12 0				Supples AU OIL QUOILLQ	neart	rn-				55
Polygonum affine or 3" pots 00.21 00.4 '4-18 soknigativ sudiannoido 8 Santolina viridis 00.4 00.5 '2-14 mustodrum arboreum 1.00 1	70	70	9 1 9 6				fica carrios	and clumps		12
Santolina virginioa 31-4, 4.00 12.00 4.00 1.00 1.00 1.00 1.00 1.00 1.00 1								3" pots		6
2 Oxydendrum arboreum 4:-51 2.00 4.00						68	Santolina viridis	11		
	4.00	2.00	15-14	Oxydendrum arboreum	S	18	Verbascum olympicum			2,30

LetoT	Unit Frice	Sige	Plant	Quan.	qua
				Shrubs	
3.50	3.50	15"-18" in cans	Cytissus praecox	1.0	Shr
210.00	2.00	17	Juniperus conferta	105	
70.00	2.00	п	Juniperus horizontalis	35	Gr
				Grasses	
21.00	1.50	one year eld clumps 3" pots	il i	71	31
109.00	1.00	11	Elymus glaucus	109	
10.00	5.00	π	Erianthus ravennae	2	
796.00	08.	17	Festuca glauca superba	995	2.
48,00	00.8	17	Miscanthus chinensis giganteus	9	
104.00	2.00	11	Pennisetum compressum	52	
25.00	5.00	tr	Spartina michauxiana	. 5	1
00.00				Perennials	
60.00	3.00	17	Acanthus mollis	0.0	
1.25	1.25	n	Bocconia cordata	1	
50.00	.50	oides "	Ceratostigma plumbagino	100	1200
17.50	2.50	Bulb	Eremurus himalaicus	7	
550.00	1.00	e year	Erica carnes on	550	
125.00	1.00	ld clumps	Polygonum affine or	125	
68.00	1.00	11	Santolina viridis	88	
18.00	1.00	11	Verbascum olympicum	18	
2,302.50	Is	Sub Tota			

quan.	Plant	Size	Unit Price	Total
	Sheet 11 of 21			
Shrubs				
6	Cytissus praecox	18"-24"	3.50	15.00
	Erlanthua ravennae	can		
Grasses				72.00
50		eld clump	1.00	13.00
	gigenteus Ol	3" pots		
341	Bergenia cordifolia	77	.50	170.50
3	Bocconia cordata	17	2.00	6.00
62	Chrysanthemum arcticum	17	.65	40.30
242	Coreopsis verticillata	11	.65	157.30
2	Helianthus salicifolius	Ħ	1.00	2.00
4	Heracleum mantegazzianum	23	3.00	12.00
29	Iris silirica	22	1.00	29.00
110		11	1.00	110.00
	Polygonum affine	11	1.00	97.00
97	Polygonum reynoutria	17	.75	42.75
57	Rudbeckia newmanni	13	.75	191.25
255	Rudbeckia goldsturm	21	.65	124.15
191	Salvia superba		1.00	5.00
5		ans S	ub Total	1,015.25
4	Juniperus horisontalis		2.4	
Park 1	Sheet <u>12</u> of <u>2</u>	1		
Grasses			1.50	21.00
14	Avenue sempervirens fiel	d of useps	1.50	
17		3" pots	1.00	17.00
	Carex pendula			

F - 4 - 50	JinU					Plants	Size	Unit Price	Total
LetoT	Price	Sine	dnole	-neuv	Quan.	111110	The second secon	State of the last	
			Sheet 11 of 21		Grasses con	073.22 *		1.00	21.00
00.35	07.0			Shrubs	15	Elymus glaucus	one year field clumps or 3" pots	1.00	
15.00	3.50	18"-24" cam	Cytissus praecox	9	3	Erianthus ravennae	11	5.00	15.00
				Grasses	600	Festuca glauca superb	a ®	.80	480.00
13.00	1,00	e year		50	000	Miscanthus chinensis	88	8.00	24.00
		1d clumps		1 () () () () () () () () () (3	giganteus giganteus			
170.50	.50	17	Bergenia cordifolia	341	52	Pennisetum compressur	27	2.00	104.00
6,00	2,00	13 50 W	Bocconia cordata	3	9	Spartina michauxiana	7.50	5.00	45.00
40.30	:65	11	Chrysanthemum arcticum	62	Perennia				
157.30	28.	11	Coreopsis verticillata		Perennials	- ACRIGINAL TELEVISION		1.00	425.00
2.00	1,00	12		242	425	Bergenia cordifolia	17	1.25	3.75
			Helianthus salicifolius	S	3	Bocconia cordata	*3		1085.00
12.00	3,00	10000000000000000000000000000000000000	Heraeleum mantegassianum	4	1085	Calluna vulgaris	77	1.00	
29.00	1.00	n	Iris silirica	. 29	1185	Erica carnea	99	1.00	1185.00
110.00	1.00	11	Polygonum affine	orr	156	Deracleum mentegazz	ianum "	3.00	6.00
97.00	1.00	11	Polygonum reynoutria	97	2		99	1.00	105.00
42.75	.75	11	Rudbeckia newmanni.	57	105	Polygonum affine	<u> </u>	Sub Total	. 3,530.0
191.25	.75	11	Rudbeckia goldsturm	255	240/10	Mapata Massal Sheet	13 of 21		
124.15	.65	n	Salvia superba	161	Shrubs				
5.00	1:00	ii ii	Verbascum olympicum	8	117	Polygoman restarta	15"-18"	2.00	
1,015.25	IsjoT d	Bandle Sub			35	Juniperus conferta	cans	2.00	88.00
	00.1				44	Juniperus horizonta	4110		
			Sheet 12 of 21		Grasses	Salvia superbs		1.50	54.0
				Grasses	36)	Avena sempervirens	one year field clump		7400
21.00	1.50	n	Avena Semperirrens	AT AT	1024	Stachys lanata	or 3" pots	1.00	106.0
17.00	1,00	Charle Const	Carex pendula	Lt.	106	Elymus glaucus	11		

TetoT	Unit Price	Size	Plants	Nan.	Quan.	Plants	Size	Unit Price	Total
				Grasses oc	Grasses co	ont. Sheer alk		5.00	15.00
21,00	1.00	one year field clumps	Elymus glaucus	15	Tree 3	El Talioling Lavors	one year field clumps	,.00	
		adog #8 10			1	Acer ribrum	or 3" pots		
15.00	5.00	u u	Erianthus ravennae	3	962	Festuca glauca	11	.80	769.60
480,00	08.		Festuca glauca superba	600	902	superba	***	8.00	40.00
24.00	8.00	The state of the s	Miscanthus chinensis		5	Miscanthus chinensis			
			giganteus		97	Pennisetum compressu	m 13	2.00	194.00
104.00	2.00	n e e	Pennisetum compressum	52		Spartina michauxiana	11	5.00	15.00
45.00	5.00	18	Spartina michauxiana	6	33				
					Perennial	Crataegus phaenopyre		- 00	25 00
				Perennials	25	Acanthus mollis	11	1.00	25.00
425.00	1.00	π	Bergenia cordifolia	425	317818	Bergenia cordifolia	11	1.00	150.0
3.75	1.25	14	Bocconia cordata	ξ	150		11	1.25	3.7
1085.00	1,00	17	Calluna vulgaris	1085	3	Bocconia cordata	33	1.00	400.0
		11			400	Calluna vulgaris	idos	.50	79.0
1185.00	1.00		Erica carnea	1185	158	Ceratostigma plumba	ginoldes"	.65	58.5
6,00	3.00	itim , ii	Deracleum mentegazzian	2	90	Ceropsis verticilla	ata "		672.
105.00	1.00	17	Polygonum affine	105	672	Erica carnea	11	1.00	
3,530.00	Total	Sub					11	.90	225.
		IS lo	Sheet 13		240	Nepeta mussini	11	1.00	30.
				Shrubs	30	Polygonum affine	10 11	1.00	117.
75.00	2.00	15"-18"	Juniperus conferta	35	117	Polygonum reynoutr		.75	80.
00.88	2.00	cans	Juniperus horizontalis	44	\$120 s	Rudbeckia goldstur	m n	.65	17.
			plumosa		27	Salvia ostfrieslar	id ii	.65	21
				Grasses	333	Salvia superba	11	1.00	
54.00	1,50	one year	Avena sempervirens	36	200	Santolina viridis		.50	512
		teld clumps or 3" pots			1024	a. han lanata		1.00	8
106.00	1,00	n	Elymus glaucus	106	58	Verbascum pulveru	lentum "	Sub Total	4,327
			。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						

Total	Unit Price	Sise	Plants		Quan.	Plants	Size	Unit Price	Total
Control of the State of the Sta	Secretaria de Caración de Cara	- No lab also had constructed desired		Quan. Grasses co	ombs cont	Sheet 14 of	21		
15.00	5.00	one year field clumps or 3 th pots	Erianthus ravennae	9	frees 4	Acer ribrum	1.5" cal.	4.95	18.00
769.60	.80	17	Festuca glauca	962	13	Acer saccharum	1.5" cal.	4.95	60.00
00.01	00 6	11	superba		2	Chionanthus virginica	31-41	4.00	8.00
194.00	8.00		Miscanthus chinensis	5	1	Chionanthus virginica-	3:-4:	4.00	4.00
15.00	5,00	11	Pennisetum compressum Spartina michauxiana	79	3	male Cornus florida alba	31-41	2.50	7.50
					5	Crataegus phaenopyrum	31-41	4.00	20.00
				Perennials	6	Franklinia alatamaha	31-41	4.00	24.00
25.00	1.00	**	Acanthus mollis	25	3	Ginkgo biloba	1.5" cal.	4.00	12.00
150.00	1.00	71	Bergenia cordifolia	150	2	Ilex opaca	31-41	4.00	8.00
3.75	1.25	T .	Bocconia cordata	ξ	2	Lagerstromia indica	31-41	2.95	75.90
400.00	1.00	n Nach kan	Calluna vulgaris	400	4	Lagerstromia indica-	3 - 4	2.95	11.80
58.50	.65		Ceratostigma plumbagin Ceropsis verticillata	90		multi-stemed	- 5" 00]	3.00	9.00
672.00	00.1	11		572	3	Magnolia grandiflora	1.5" cal.	2.95	8.85
		n	Erica carnea	24,0	3	Malus angustifolia	3*-4*	4.00	44.00
225.00	.90	11	Nepeta mussini		11	Pinus strobus	3 = 41	6.00	6.00
30.00	1.00		Polygonum affine	30	1	Salix mastsudana tort	uosa 3'-4'	75	12.00
117.00	1.00	17	Polygonum reynoutria	117	3	Vitex macrophylla	31-415	1.00	55.00
00.08	.75		Rudbeckia goldsturm	120	Shrubs			9 20	14.00
17.55	.65	n 	Salvia ostfriesland	27	4	Aucuba japonica	18"-24"		77.00
21.45	66.	n n	Salvia superba	33	22	Camellia japonica	18"-24"	-0	337.00
200.00	1.00	12	Santolina viridis	200	2	Camellia sasanqua	7811-2411		
512.00 8.00 4,327.10	.50 1.00 Total	17 DIE	Stachys lanata Verbaseum pulverulent	\$	5	(Jean May) Camellia sasanqua (Cleopatra)		3.50	17.50

In

TetoT	Unit Price	Size	Plants	Quan.
		TZ '	Sheet 14 of	
				Trees
18.00	4.95	1.5" cal.	Acer ribrum	4
60.00	4.95	1.5" cal.	Acer saccharum	13
8,00	00.4	14-16	Chionanthus virginica	2
4.00	4,00	14-18	Chionanthus virginica- male	1
7.50	2.50	14-16	Cornus florida alba	3
20.00	4.00	31-4	Crataegus phaenopyrum	5
24.00	4.00	34-46	Franklinie alatemaha	8
12.00	4.00	1.5" cal.	Ginkgo biloba	8
00.8	4.00	31-16	Ilex opaca	2
5.90	2.95	34-18	Lagerstromia indica	2
11.80	2.95	34-16	Lagerstromia indica- multi-stemed	4
9.00	3.00	1.5" cal.	Magnolia grandiflora	3
8.85	2.95	31-41	Malus angustifolia	3
44.00	4.00	14-18	Pinus strobus	11
6.00	6,00	sa 31-41	Salix mastaudana tortuo	1.
12.00	4.00	31-41	Vitex macrophylla	3
				Shrubs
14.00	3.50	181-2411	Aucuba japonica	. 4
77.00	3,50	1811-2411	Camellia japonica	22
7.00	3.50	18"-24"	Canellia sasanqua (Jean May)	2
17.50	3.50	18"-24"	Camellia sasanqua (Gleopatra)	5

han.	Plants	Size	Unit Price	Total
arubs con	t.			
1	Camellia sasanqua (Mino-No-Yuki)	18"-24"	3.50	24.50
12	Chaenomeles japonica alba	12"-15"	1.50	18.00
5	Chaenomeles lagenaria	1811-2411	1.50	7.50
14	Cleyera japonica	18"-24"	3.95	55.30
7	Forsythis intermedia	1811-2411	1.50	10.50
125	Ilex burfordi	21-31	4.95	19.80
10				180.00
19	Pyracantha coccinea lalandii	18"-24"	3.50	66.50
l l	Rhododendron indicum (Formosa)	1811-2411	3.00	33.00
24	Rhododendron indicum	1811-2411	3.00	72.00
	(New White)		1.00	22.00
26	Rhododendron indicum (Southern Charm)	1811-2411	3.00	78.00
15	Rhododendron obtusum amoenum	18"-24"	3.00	45.00
grasses				
40	Carex pendula intera	one year	1.00	40.00
0		or 3" pots	1.00	55.00
55	Elymus glaucus coarpa	11		184.00
23	Miscanthus chinensis	wm) 18#-24#	8.00	288.00
36	Miscanthus chinensis	184-244	8.00	200.00
1/-	giganteus	Parlib	2.00	330.00
165	Pennisetum compressum	18"-24"	5.00	5.00
1	Spartina michauxiana	y 11	7.00	

Total	Unit Price	Size	Plants	Ouan	Quan.	Plants		Unit Price	Total
			· J	Shrubs con	Vines	Everynees overcifully	0 ==027	2.00	570.00
24.50	3.50	18"-24"	Camellia sasanqua (Mino-No-Yuki)	7	285	Gelsemium sempervirens	2 year plants in cans		
18,00	1.50	12"-15"	Chaenomeles japonica	12	35		187 124		
7.50	1.50	18"-24"			Perennials		Bulb	3.00	540.00
		707 01	Chaenomeles lagenaria	5	180	Allium gigantheum	Tear	.50	35.00
55.30	3.95	18"-24"	Cleyera japonica	41	70	Aruncus sylvester	or 3" pots		356.00
10.50	1.50	18"-24"	Forsythie intermedia	7			51-18"	.50	113.00
19,80	4.95	18-18	Ilex burfordi	4	225	Bergenia cordifolia	15"-18"	1.00	180.00
66.50	3.50	18"-24"	Pyracantha coccinea	19	180	Erica carnea	15"-18"	15.00	45.00
33.00	3.00		lalandii		3	Gunnera manicata	51	3.00	24.00
	00.0	184-544	Rhododendron indicum (Formosa)	II	078888	Heracleum mantegazzia	num "	. 20	43.00
72.00	3.00	18"-24"	Rhododendron indicum (New White)	24	2155	Liriope grandiflora	atald.	1.00	22.00
78.00	3,00	18"-24"	Rhododendron indicum (Southern Charm)	26	22	Verbascum pulverulent Yucca filamentosa	s S	1.00 ub Total	3,498.65
45.00	3.00	18"-24"	Rhododendron obtusum amoenum	15	1040	Anchusa myosotidiflo: Sheet 15 of 21		ra raba	
				Grasses	Shrubs	and a turn a monda turn	- 24 - 24	2.00	298.00
40.00	1.00	one year field clumps or 3" pots		04	149	Callicarpa bodiniera	18"-24		00
55.00	1.00	ti	Elymus glaucus	55	27	Callicarpa japonicalelicocary			241.50
184.00	00.8	er .	Miscenthus chinensis	23	69	Camellia sasanqua (nawn) I		
288.00	00.8	17	Miscanthus chinensis	36	412	Camellia sasanqua	18"-2	4) • /-	
330.00	2.00	11	giganteus Pennisetum compressum	165	12	(Jean May)	18"-2	3.50	0 21.00
5.00	5.00	n.	Spartina michauxiana	Ţ	1106	Camellia sasanqua (Mino-No-Yuki)	lis manife		

Tetal	Unit Price	Size	Plants	Quan.
				Vines
570.00	2,00	g year	Gelsemium sempervirens	285
		sans		
				Perennials
540.00	3,00	Bulb	Allium gigantheum	180
35.00	.50	e year eld clumps 3" pots	fi	70
113.00	.50	tr	Bergenia cordifolia	225
180,00	1.00	n	Erica carnea	180
45.00	15.00	u	Gunnera manicata	3
24.00	3.00	tt	Heracleum mantegazzianum	8
43.00	0.20	Ħ	Liriope grandiflora	21.5
22.00	1.00	17	Verbascum pulverulentum	22
and the second or the second s	1.00	11	Yucca filamentosa	220
3,498.65	Total	Sub	Sheet <u>15</u> of <u>21</u>	
				Shrubs
298.00	2.00	18"24"	Callicarpa bodiniera giraldi	149
54.00	2,00	18"-24"	Callicarpa japonicalelicocarpa	27
241.50	3.50	1.8"-24"	Camellia sasanqua (Dawn)	69
42.00	3.50	18"-24"	Camellia sasanqua (Jean May)	1.2
21.00	3.50	18"-24"	Camellia sasanqua (Mino-No-Yuki)	9

Quan.	PlanPlant	Size	Unit Price	Total
Shrubs cont	ont.			
54	Hydrangea quercifolia	21-31	3.00	162.00
16	Ilex cassine	18"-24"	2.00	32.00
35	Ilex glabra ntegazalanu	18"-24"	2.00	70.00
82	Ilex vomitorial on	21-31	4.00	328.00
45	Myrica pumila ocum	15"-18"	2.00	90.00
178	Nandina domestica	15"-18"	2.00	356.00
46	Osmanthus americanus	15"-18"	2.50	115.00
63	Osmanthus fortuni	15"-18"	2.50	157.00
121	Rhododendron obtusum amoenum	15"-18"	3.00	363.00
Grasses 35	Carex pendula	one year field clump	1.00	35.00
Perennial	S SAN MARKET BY A SAN THE SAN		- 30	1144.00
1040	Anchusa myosotidiflor	a one year field clur or 3" pots	1.10 mps	
180	mondatum	11	2.00	360.00
	Andianthus pendatum	11	.50	115.00
230	Aruncus sylvester	11	.85	
188	Astilbe chinensis	11	1.00	
248	Bergenia cordifolia	ÍI	2.00	
412	Cyrtomium falcatum	Bulb	.07	
750	Erianthus hyemalis	C ** - +	1.00	
1197	Epimedium sulphureum Fritillaria imperial	- 71·	2.00	48.00
	maxima			

Total	Unit Price	Size	Plant	·uem
			. 2	Shrubs con
162,00	3.00	18-18	Hydrangea quercifolia	54
32.00	2.00	184-57a	Ilex cassine	91
70.00	2,00	18"-24"	Elex glabra	35
328.00	4.00	18-18	Ilex vomitoria	88
90.00	2,00	15"-18"	Myrioa pumila	. 45
356.00	2.00	15"-18"	Nandina domestica	178
115.00	2.50	15n-18n	Osmanthus americanus	94
157.00	2,50	15"-18"	Osmanthus fortuni	63
363.00	3.00	15"-18"	Rhododendron obtusum amoenum	isi
				Grasses
35.00	1.00	one year field clump	Carex pendula	35
				Perennials
1144.00	01.10	one year field clumps or 3" pots	Anchusa myosotidiflora	0701
360.00	2.00	19	Andianthus pendatum	180
115.00	.50	17	Aruncus sylvester	230
159.80	.85	n and a m	Astilbe chinensis	188
248.00	1.00	11	Bergenia cordifolia	24,8
824.00	2.00	17	Cyrtomium falcatum	412
51.50	70.	Bulb	Erianthus hyemalis	750
1197.00	1.00	3 "pot "	Epimedium sulphureum	1197
48.00	2.00	Bulb	Pritillaria imperialis maxima	24

1	Plants	Size	Unit Price	Total	
I	erennials cont. ed on Sheet we,				
100	738 Hemerocallis hyperion wildin	TTETA CTAMBS		1107.00	
	to how it might be designed.	or 3" pot			
	15 Heracleum mantegazzia	anum vices of	3.00	45.00	
	63 Lamium galeobdolon		7 00		
	95 Ligularia clivorum	proximate of	1.25	118.75	
	30 Rodersia aesulicolia			120.00	
	76 Vinca major	one year plant Su	.25 b Total	19.00 7,984.55	

Total Plant Materials
Cost =\$23,570.30

Material

Terrace-

70,690 sq. ft.

Concrete w/exposed pass gravel aggregate - 18 thick with 2"x4" redwood dividers or suitable substitutes.

2. Garden for blind-

603 eq. ft. Concrete w/score

10) eq. ft. Concrete w/ex chip aggregate thick.

Total	Unit Price	Size	Plants	-MBUQ
			is cont.	Persnnia
1107.00	1.50	one year	erocallis hyperion	738 Hem
		sod as do		
45.00	3.00	and a mini	Heracleum mantegazzia	15
63.00	1.00	07.20	Lamium galeobdolon	
118.75	1.25	n n	Ligularia elivorum	95
120,00	4.00	a a	Rodersia aesulicolia	308
7,984.55	.25 Total	one year	Vince major	76

Cost =\$23,570.30

B. Shelter: As indicated on Sheet #6, "Terrace: Spot Elevations and Shelter Concept", the building sketch is only a suggestion as to how it might be designed. It in not intended to 2028,00 serve as a working drawing. The services of a competent architect should be engaged to provide the necessary working drawings for the shelter. An approximate cost estimate can be based on the 3200 square feet of roof area at \$2.50 per square foot (plywood).

Soll cement-Total Shelter Cost = \$5,250.00

C. Paving:

Total Unit As Material thick Amount Price

1. Terrace-

.40/sq.ft. \$28,260.00 Concrete w/exposed pea 70,650 sq. ft. gravel aggregate - 4"
thick with 2"x4" redwood dividers or suitable substitutes.

2. Garden for blind-

Concrete w/exposed pea .40/sq.ft. \$241.20 603 sq. ft. gravel .40/sq. ft. aggregate - 4"thick.

\$41.20 Concrete w/exposed blue .40/sq.ft. 103 sq. ft. chip aggregate - 4" Sub Total thick.

Total	Unit Price	Material	Amount JunouiA
			3. Walks-
violingum i		s & sitting area -	a. garden wall
\$2028.00	ate in	Concrete w/exposed pea gravel aggrega 4" thick with 2"xl redwood dividers cultable substitut	5070 sq. ft.
		lks-	b, entrance wa
657.00	.30/sq.ft.	4" thick concrete	2190 sq. ft.
		Section .	c. nature walk
915.00	.10/sq.ft,	Soil cement-L" thick	9150 sq. ft.
		be	4. Entrance Ro
9030.00	.30/sq.ft.	Asphalt - 4 " thick $w/4$ " gravel base.	30,100 sq. ft.
=\$41,172.40	aving Materials Cost	Total P	
		Areas:	D. Construction
		lls-	Retaining Wa
\$17,100.00	\$20.00/ lin. ft.	Concrete	855 lin. ft.
\$17,100.00	Sub Total		
		s for terrace-	2. Sitting wall
1,310.00	5.00/ lin. ft.	Concrete sitting walls with brick veneer facing.	262 lin. ft.
\$1,310.00	Sub Total		
			3. Steps-
2,125,00	5.00/ cu. ft.	Concrete	425 cu. ft.
\$2,125,00	Sub Total		

ount CONTR Ma	aterial	Unit Price	Total
Fountain- The appropriate fit the given a blind will be \$1,0 system.	00.00 including	-= 7 otin	n sg stal \$1,000.00
Sculpture- The sculis purely a concer should be consulted will be based on a configuration of project - approximately and appears to the sculpture of project - approximately appears to the sculpture of project - approximately appears to the sculpture of the scu	alpture shown of A competend for true des a percentage of oximately 6%	ign. Cost total cost Sub Tot	\$6,000.00 \$6,000.00
6. Entrance Gates- 300 sq. ft.	Brick w/end c	olumns 1.0 sq Sub To	00/ 300.00 . ft. tal \$300.00
	Total Cost o	of Construct Area	sion \$27,835.00
<u>Item</u>	Final Cost Esta	als 0.30	Grand Totals
A. Planting materia B. Shelter C. Paving D. Construction Are Totals *Note: Labor, equip this cost estimat will be furnished	\$5,25 41,17 27,83 \$97,82	2.40 5.00 27.70	\$97,827.70* included in these items te Hospital.

Init Total		Mate	J ALFO MA
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Jac		ourely a concept.	is property of the property of
		cance Gates-	6. Enti
300 sq. ft. Brick w/end columns 1,00/ 300.00 sq. ft. Sub Total \$300.00			
uction reas = \$27,835.00	tal Cost of Constr A	To	
Final Cost Estimates			
Grand Totals	Totals	tem	I
001_5001_00185	\$23,570.90 5,250.00 41,172.40 27,835.00		B. Shell 0, Pav
\$97,827.70*	\$97,827.70	Totals	
ompor peptro of	and topsoil are no is understood that	cost estimate. It	eins

will be furnished by the Milledgeville State Hospital.

CONTRACTS AND SPECIFICATIONS

It is recommended that the working contracts and specifications for the Rehabilitation Garden, Milledgeville State Hospital, be prepared by the engineers and officials who will be in charge of the construction of the garden.

The Cost Estimate previously stated is an approximate estimate and will probably vary greatly with the construction contracts and specifications and with the materials sources.

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CONTRACTS AND SPECIFICATIONS

It is recommended that the working contracts and specifications for the Rehabilitation Garden, Milledgeville State Hospital, be prepared by the engineers and officials who will be in charge of the construction of the garden. The Cost Estimate previously stated is an approximate estimate and will probably vary greatly with the construction contracts and specifications and with the materials sources.

CRASSES AND PERENNIALS FOR THE REHABILITATION GARDEN

MILEDGEVILLE STATE HOSPITAL, MILLEDGEVILLE, GEORGIA

"All the great thinkers, however filled with theories and theorems stand humbly, hat in hand before a growing blade of grass.

WEMPERVIRENS - BLUE OAT - GRAMINEAE

180, 1-2 1/2 ft., clump, blue, semi-evergreen, flower May. In early spring isted leaves, do not cut leaves at any time, watch for young leaves in the of hey appear very early. Cut off flowers after they become unsightly. al sell, but sufficient moisture, if it is too dry plant becomes yellow in

Division in fall, transplant in fall or early spring (cool season) As Fertilize lightly in fall anAPPENDIX

EXPENDULA - SEDGE - CYPERACEAE

and semi-shade, 2-3 ft., clump, green evergreen - flowers April and May. Thowa leaves in spring, do not cut entire leaf - just the part which browned whiter. It prefers rich and moist soil, grows on edge of ponds in water. Seed in early spring, transplant spring or fall - 3 ft. o.c. Fertilize likes manure and peat moss.

THE GLAUCUS - BLUE WILD RYE - GRAMINEAE

2-3 ft., spreading, blue, semi-evergreen, flower May. Out off brown on spring, watch for young leaves because they appear very early in spring. round cover for any soil and summy location, not too dry, spreading through

Root division, spring or fall, transplant spring or fall. 3 ft. o. c.

THUS RAVENNAE - RAVENNAGRASS - GRAMINEAE

1-8 ft., clump, green, flower fall (Sept.) tall phone. In early spring Will leaves close to the ground (all the leaves die off during the winter), cut

phon: Division of clumps early spring, transplant spring, likes peat moss Fertilize several times during growing season.

IUCA GLAUCA SUPERBA - BLUE FESCUE - GRANINEAE

10, 8-10 inches with bloom, clump, blue, semi-evergreen flower May. Cut

ORNAMENTAL GRASSES AND PERENNIALS FOR THE REHABILITATION GARDEN MILLEDGEVILLE STATE HOSPITAL, MILLEDGEVILLE, GEORGIA

"All the great thinkers, however filled with theories and theorems stand humbly, hat in hand before a growing blade of grass."

AVENA SEMPERVIRENS - BLUE OAT - GRAMINEAE

Full sun, 2-2 1/2 ft., clump, blue, semi-evergreen, flower May. In early spring comb out old leaves, do not cut leaves at any time, watch for young leaves in the spring; they appear very early. Cut off flowers after they become unsightly. Normal soil, but sufficient moisture, if it is too dry plant becomes yellow in

Propagation: Division in fall, transplant in fall or early spring (cool season) 2 ft. o.c. Fertilize lightly in fall and spring.

CAREX PENDULA - SEDGE - CYPERACEAE

Shade and semi-shade, 2-3 ft., clump, green evergreen - flowers April and May. Cut off brown leaves in spring, do not cut entire leaf-just the part which browned off during winter. It prefers rich and moist soil, grows on edge of ponds in water. Propagation: Seed in early spring, transplant spring or fall - 3 ft. o.c. Fertilize in spring, likes manure and peat moss.

ELYMUS GLAUCUS - BLUE WILD RYE - GRAMINEAE

Full sun, 2-3 ft., spreading, blue, semi-evergreen, flower May. Cut off brown leaves in spring, watch for young leaves because they appear very early in spring. A good ground cover for any soil and sunny location, not too dry, spreading through

Propagation: Root division, spring or fall, transplant spring or fall. 3 ft. o.c. Fertilize lightly in spring.

ERIANTHUS RAVENNAE - RAVENNAGRASS - GRAMINEAE

Full sun, 6-8 ft., clump, green, flower fall (Sept.) tall plume. In early spring cut off all leaves close to the ground (all the leaves die off during the winter), cut Propagation: Division of clumps early spring, transplant spring, likes peat moss and manure. Fertilize several times during growing season.

FESTUCA GLAUCA SUPERBA - BLUE FESCUE - GRAMINEAE

Full sun, 8-10 inches with bloom, clump, blue, semi-evergreen flower May. Cut

LENTAL ORASSES AND PERSONALE FOR THE REHABILITATION GALLIES MILLEDGEVILLE STATE HUSSITAL, MILLEDGEVILLE, GEORGIA "All the great thinkers, boy cops thied, with treomers and inorporas stand numbby, hat in

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dem, 2-21/2ft, clump, blue, semi-everyreen, flower hay, he early spring so out old leaves, do not cut loaces at any time, watch for young leaves in the

see they appear very early. Out off flowers after they become unsightly. seem soil, but sufficient moisture, if it is too day plant becomes yellow in incesse loop pairie give to Well in insignment, that it not brill inclination. o.c. Pertitize theathy in fail and spring. AREST PENDULA - SEDGE - CYPERACEAE

cade and semi-shade, 2-3 ft. clump, green evergreen - Howers April and May, at off brown leaves in spring, do not out cottre leaf - just the part which browned copagation: Seed in early spring, transplant spring or tall - 2 ft. o. c. . Fertilize

ELYMUS CLAUCUS - BLUE WHAD RYE - ÇEAMINEAE Toll sun, 2-3 ft., spreading, blue, semi-evergreen, flower, May. Out off brown eaves in spring, wetch for young leaves heggers they appear very early in spring, sood ground cover for any soil and suppy location, not too dry, spreading through

copagation: Root division, spring or fall, transplant spring or fall. Dift. o. o. CARNESS - CARROLL PAYER AND SON - CARROLL CONTRACT

vil son, 6-8 ft., claras, green, flower fall (Sept.) tall plume. In early spring out off all leaves close to the ground (all the leaves die off daring the winter), cut and devel states as white if they start to full devel. . . Topoquion: Division of element warly soring, transplant spring, likes peet more and manure. Farifice several times during growing season.

ESSTUCA CLASCA SUPERIA - BINE PREDICE - GRAACHEAS . Full sub, 8-10 inches with bloom, plane, blue, serai-ever-green flower blay. Out of flowers after they become unsightly, do not cut too low, even if brown flower talks show, otherwise the sun burns out the clump. Propagation: Division of clump, fall, transplant fall or spring (cool season), mmal soil, 18 inches o.c. Fertilize lightly in fall and spring.

MISCANTHUS CHINENSIS - EULALIA - GRAMINEAE

full sun and light shade, 6 ft., clump, green, flower (plume) Sept. -Oct., will nersist all winter leaves to the relation of the state persist all winter, leaves turn golden yellow in winter. Cut off leaves close to Propagation: Division of clumps, spring, transplant spring, likes manure and peat moss. Fertilize several times during growing season.

MISCANTHUS CHINENSIS GIGANTEUS - EULALIA - GRAMINEAE

Full sun and light shade, 10 ft. +, clump, green, flower (plume) Sept. Oct. will persist all winter leaves as persist all winter, leaves turn golden yellow in winter. Same requirements as M, chinensis, individual stalks are thicker and taller. If some of the lower leaves brown off during the brown off during the summer, this is an indication of lack of water and it can be easily corrected by watering more with some application of fertilizer.

PENNISETUM COMPRESSUM - FOUNTAIN GRASS - GRAMINEAE

Full sun, 2-3 ft., clump, green fuzzy flower Sept., leaves turn golden yellow after frost. Flowers will be a fuzzy flower Sept., leaves turn golden yellow. after frost. Flowers will disappear during winter. It will seed itself somewhat.

Cut off leaves elected. Cut off leaves close to the ground in spring, before young leaves appear. Should have fairly good and have fairly good soil and sufficient moisture otherwise leaves are wilting and dying off.

Propagation: Division of clumps or seeds in spring, transplant spring, fairly good soil - manure and s 80il - manure and peat moss. Fertilize several times during growing season. 3 ft. o.c.

SPARTINA MICHAUXIANA - CORD GRASS - GRAMINEAE

Full sun, 4 ft., clump but spreading through underground roots, delicate yellow-striped, flower Sent striped, flower Sept. Leaves very pendulous and graceful, turns pear, allowed off close to the contract of the Cut off close to the ground in early spring, before young leaves appear, allow plenty of room for close to the ground in early spring, before young leaves appears allow plenty of room for clump, can be made smaller by digging up unnecessary shoots.

Propagation: Division of the propagation of th Propagation: Division of roots in spring, transplant spring, likes peat moss and fertilizer. Fertilizer fertilizer. Fertilize several times during growing season.

PERENNIALS

10. ACANTHUS MOLLIS - BEAR'S BREECH - ACANTHA CEAE

Full sun, semi-shade, 3 ft., flower during the summer (June) clumps have to get

colles show, otherwive the sun hands out the chaves. consistent liversion of clump, will, transplant fell or apring (cool sesson). wall soil, 18 mehos o. c. Fortilize highfly in tall and spring.

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will sun and hight shade, 6 ft., clump, green, flower falume) Sept. -Oct., will persist oil watter, leaves turn golden yellow in winter. Out off leaves close to nerround in early spring, before the young leaves Eppear.

troparation: Invision of churaps, spring, a onsplant spring, likes minume and and mess. Fertilize several times curing growing season,

OCANTHUS CHIMENESS GIGANTEUS - EULALIA - GRAMINEAE

all sun and light shade, 10 ft. +, olumns, green, flower (plume) Sept. -Cot. will maist all winter, leaves turn golden yellow in winter. Some requirements as the commencia, individual stalles are thicker and taller. It some of the lower leaves brove of decay the cammer, this is an indication of lack of water and it can be

easily corresped by welering nione with some application of fortilizer. ENVISETUM COMPRESSUM - FOUNTAIN GRASS - CRAIMINEAS

Full sum 2-8 ft., charmy, green facty flower Copt., feaves min golden vellow the host Movers will disspicar during winter. It will seed itself somewhat.

Out of leaves close to the ground its spring, before young leaves appear, Shoold party bas painted our saves learner of the manual of the bas are withing and dving and the same of the same of

rorsgation. Division of clumps or seeds in spring, transplant spring, fairly good soil - manure and peak moss. Pertilire several times during growing season. 8

PARTINA MICHAUXIANA - CORD CRASS - CRAMINEAE

out sun, 4 ft., giung but apreading through underground roots, delicare yellowand added the second to see you produced and graceful, there are the free to the ground to see young leaves appear, allow planty of room for clumpy, one be readle breather by digging up unnecessary sheets. consession: Envision of roots in coving, in against apring, librar pest most and

totaligor, Fertilias several traces during growing season.

ACADTHUS MOLIUS - BEALIS BRIEROS - ACANTUACRAE

Tell sun, send-shade, 3 ft., flower during the summer (June) clerate have to got

old before they flower. Well drained location, but sufficient moisture, otherwise roots rot in winter, in northern area some winter protection is advisable. The Acanthus leaf was used as the suggestion for the foliage decoration on the capitol of the Corinthian and other columns. Propagation: Seed and root cuttings. Transplant spring. 3 ft. o.c. Fertilize several times during growing season.

ANCHUSA MYOSOTIDIFLORA - ALKANET - BORAGINACEAE (BRUNNERA MACROPHYLLA)

Shade, 1 ft., blue flower like forget-me-not, early spring, March-April. Handsome dark green leaves remaining all through summer. Sufficient moisture is important. Propagation: Seed (often seeds itself). Transplant spring or fall, likes peatmoss and manure. 2 o.c. Slight fertilize in spring.

ARUNCUS SYLVESTER - GOAT'S BEARD - ROSACEAE

Shade and semi-shade, 4 ft. White flowers in May-June. Makes heavy bushy clumps, improves with age, does not grow much the first year after transplanting. Cut off dead stalks in spring, young leaves appear quite early. Propagation: Seed or division of clumps. Transplanting early spring or fall, likes peatmoss and manure. 3 ft. o.c. Give it a top dressing of manure in fall or spring.

ASTILBE CHINENSIS - CHINESE ASTILBE - SAXIFRAGACEAE

Shade and semi-shade, 2-3 ft. Pink flowers about May-June. Good tall groundcover for shade, should have sufficient moisture. This is the only Astilbe which spreads by rootsuckers. One of the toughest of the Astilbes. Propagation: Seed or division of clumps fall or spring. Transplant fall or spring, likes peatmoss and manure. 2 ft. o.c. Fertilize spring.

4. BOCCONIA CORDATA (MACLEYA - PLUME POPPY - PAPAVERACEAE

Sun and semi-shade, 8-10 ft. Off-white flowers in July (plumes). Striking perennial, needs good soil and sufficient moisture to develop well. Makes rootsuckers, which can be dug up for propagation. Allow plenty of space to spread, and do not plant delicate plants close by. Good in front of walls, etc. or a background of trees and Propagation: Suckers in the spring. Transplant spring, likes peatmoss and manure. Give a top dressing of manure in fall or spring. Fertilize several times during the growing season.

BERGENIA CORDIFOLIA - MEGASEA - SAXIFRAGACEAE

Sun and shade, 1 ft., evergreen, pink to red flowers in early spring (March-April)

esteración de contrata de cont lotters out to decire and the suggestion for the foliage decoration on the creation Salation and branching of

ersention: Seed and row custinis; Transplant spring, 3 ft, o.c. Fertiline

WOULDA HEYOSOTIDIE LORA - STANKET - BORNORWA OFFICE

ork grass, leaves remetable all through success. Safficient moisture is important. erves die of in file werter.

representen: Seed (often seede itself): Transplent spring or fall. libes peatmoss

hade and semi-shede, 4 it. White-Howers in Lay-June. Makes heavy lightly climpts, coroves with ago, does not graw touch the lirst year after transplanting. Out off est states in apring, young leaves appear ente early.

seed of division of changes. Transplanting early serion or tall, likes

ted are semi-sand. 2-5 ff. Pente flowers about 1/3y-lone. Good tall groundde de la roetsuckere. One of the trathest of the Abillies.

Transplant for division of change fell or apping. Transplant fell or spring. and make saliras to the street bas security and

Leinfering gardines (commission of the commission of the commissio

dance during for caronaration. Allow places to enace to spread, and do not plant

repaired of dead statics when the statics of application is seen as the second assessed. and private assume to the fall or spring. Fortulae several three during las

BARDADARTEKAR - ARRADAM - ALIOTIETRA CACICAR

Good groundcover, should have sufficient moisture. peatmoss and manure. 2 ft. o.c. Fertilize when necessary any time.

16. CERATOSTIGMA PLUMBAGINOIDES - PLUMBAGO - PLUMBAGINA CEAE

Sun, hot and dry location, 8-12 inches, blue flowers Sept. will frost. Leaves turn red in fall. This is a read. red in fall. This is a good groundcover for sunny location and loes well under roof overhangs. It will come out later than the sunny location and such as the sunny location and sunny locatio overhangs. It will come out late in the spring. Increased by root suckers. Cut Propagation: Soft wood cuttings all summer under mist. Transplanting: Best time spring into early summer, any good soil. 2 ft. o. c. Fertilize spring.

11. COREOPSIS VERTICILLATA - TICKSEED - COMPOSITAE

Sun, 2 ft., yellow flowers July-August, finely cut foliage. A good plant for massing, makes a dense cover, increases by rootsuckers (yellow roots). Cut off leaves after Propagation: Division of clumps or cuttings in early spring. Transplant fall or spring. Any good soil. 2 ft. o.c. Fertilize spring.

18. CALLUNA VULGARIS - SCOTCH HEATHER - ERICACEAE

Sun and semi-shade, 8-10 in., white-pink to red flowers half seatmoss. It flowers more abundantly in full abundantly in full sun. It should be planted with plenty of peatmoss and/or leafmold (acid organic motter) (acid organic matter), should have good drainage but sufficient moisture. Cut off dense maintenance free old flowers in spring to encourage dense growth. Makes a groundcover, but initial soil preparation is important and about 6" of peatmoss with peatmoss. It is best to cover the planting area with about 6" of peatmoss (the coarse type) Propagation: Cuttings summer to fall, transplant fall and spring, 18 in. o.c. Fertilize spring.

19. CHRYSANTHEMUM NIPPONICUM - COMPOSITAE

Sun, 2 ft., white daisy-like flowers, October. Woody stem, fleshy, shiny leaves.
Cut off dead branches in the Cut off dead branches in the spring, freezes back in the north, but comes back from the base. Needs fairly make the base. the base. Needs fairly good soil and sufficient moisture 3 ft. o.c. Fertilize Propagation: Cuttings early spring. Transplant spring. spring and during growing season.

CHRYSANTHEMUM ARCTICUM - COMPOSITAE

Sun and semi-shade, 1-2 ft., white daisy-like flowers out off dead leaves in early cover, spreads quickly by underground rootsuckers. spring and summer.

21. ERICA CARNEA - SPRING HEATH - ERICACEAE

or groundcover, should have midisciply indicate the

timese and menure. It is, o.c. Wertilles when packagery say three:

pring into early summan, any good soil. 2 R. o. c. Fertilize Spring.

CORROPEIS VERTICALIATA - TECHNERIED - COMPOSITAE

spring, Any good soil, 2 th, o.c. Feething spring,

SERVICE SHIP DEPONICUE - COLLECTION

MANTEOFICOS - INVOLTORA MUMERTHARYSTO

the base. Needs fattly good sail and sufficient medicine.

ERATOSTICMA PLUMBACHICOS - PLANTINGO - PARTICIPACIA SE

and het and dry location, 8-12 inches, blue navors Sept. natif trost. Leavet-turn red in fell. This is a good groundcover for sunny locetion and does well under non-

verbance, it will come out late in the spring. Increased by root suiters. Out

Propagation: Soit wood outlings all squinger quider must. Transplantings Best time

calles a dense coner, increases by rootsuckers (yellow roots). Out off leaves after

roughton: Division of clumps or cuttings in early spring. Transplant fall or

(sold organic matter), should have good drainage but sufficient craisture. Out off

old flowers in spring to enoquence dense growth. It slees a dense manuscrames fore

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renagations Cariforga carry agains, Transplant surface, 8 to o. o. Werthing

On and south-stude, 1-2 ft., white dutay-11 to Hower's South-Cot. Good grounds cover, agreed and the tot contactors between the set dead leaves in carrie

Division of clumes a figure by the second in the second of the second of

Sun and semi-shade, white-pink to red flowers in early spring (March-April).

Similar requirements as Call Similar requirements as Calluna, but grows either in alkiline or acid soil, but thrives best in plants of thrives best in plenty of organic matter (peatmoss). Cut off flowers in spring to Propagation: Cuttings summer to fall. Transplant fall or spring; likes top dressing with peatmoss. 18 in. o.c. Fertilize spring.

22. ECHINOPS RITRO - GLOBE THISTLE - COMPOSITAE

Sun 3-4 ft., blue round flowers, May - fall in succession. A good plant for small groupings and individual plants. Cut off dead leaves in spring. Propagation: Seeds or division of clumps. Transplant spring or fall, any good soil. 3 ft. o.c. Fertilize in spring and late summer to encourage more flowers.

23. EPIMEDIUM SULPHUREUM - BARRENWORT - BERBERDACEAE

Shade, 1 ft., yellow flowers about April before the leaves appear. Red fall color, leaves will persist for a long time in fall. A good groundcover in shade, increases by a thick rootstock, soil should be sufficiently moist. Propagation: Division of rootstock, fall and winter.

Transplanting fall or spring; Likes plenty of peatmoss. 18 in. o.c. Fertilize slightly in spring.

24. FERNS CYRTOMIUM FALCATUM - HOLLYFERN - EVERGREEN ADIANTUM PEDATUM - MAIDENHAIRFERN - DECIDUOUS MATTEUCIA STRUTHIOPTERIS - OSTRICH FERN - DECIDUOUS

Propagation: Division or spore, likes peatmoss and leafmold (humus), no fertilizer except topdressing with peatmoss.

25. GUNNERA MANICATA - HALORAGIDACEAE

Shade and semi-shade, 10-15 ft., individual leaf 4-6 ft. across. Sufficient moisture is essential. is essential, ground should not be allowed to dry out. Propagation: Seed or cuttings (not too easy to propagate). Transplant spring; give plenty of manure and peatmoss, topdress every year, during summer.

MELLEBORUS ORIENTALIS - LENTEN ROSE - RANUNCUCACEAE

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ESHAFOLLI SULFRIEREUNG - BAHRENWORT - BERBERRAGEE

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steely of manage and postmone; top more every year, and fertilize several times

could be exceeded by the crown said and the control blood

representation Commence to tall. Transplant tall or spring, likes top

Semi-shade and shade, 1-2 ft. flowers, different shades, early spring and fall. Evergreen leaves. A good groundcover for moist and shady locations. No maintenance.

Propagation: Seed or division of clumps. Transplant in spring or fall. 2 ft. o.c. Likes peatmoss and manure. Topdress every year with manure and peatmoss.

M. HELIANTHUS SALICIFOLIUS - WILLOWLEAF SUNFLOWER - COMPOSITAE

Sun, 8-10 ft. willowlike leaves, yellow flowers in October, but not so important. A stricking perennial, should be cut back 1/3 about in May-June to make it more stocky, otherwise in late fall the stalks have the tendency to become leggy and fall over easily.

Propagation: Division fall and spring. Transplant spring and fall, any reasonable soil. Fertilize spring.

M. HERACLEUM MANTEGAZZIANUM - COWPARSHIP - UMBELLIFERAE

Sun and semi-shade, 8-10 ft., white flowers in June-July. This is a striking plant. It is mostly biennial, but sometimes they survive more years. It will seed itself readily. Should have good deep soil, best along edges of ponds or streams. Cut off dead stalks and leaves after the seeds have ripened.

Propagation: Seed in early spring (flowers the following year). Transplant when fairly small (first year) or allow seedling to grow up and thin out. Likes peatmoss and manure. Fertilize several times during the growing seasons.

M. RIS SIBIRICA - SIBERIAN IRIS - IRIDACEAE

Sun and semi-shade, 3 ft., white or blue flowers May. Cut off leaves in early spring, makes a dense clump. If clumps get too big, they should be divided. Propagation. Division of clumps or seed. Transplant in fall or spring, 2 ft. o.c. Any reasonable soil. Fertilize in spring.

10. LAMIUM GALEOBDOLON - ARCHANGEL DEADNETTEL - LABIATAE

Shade, 1-2 ft., silver-green leaf, flower insignificant in spring, evergreen leaves. Is good groundcover for the shade, grows rapidly, branches make roots wherever they touch the soil, allow plenty of room, no maintenance, should have sufficient moisture.

Propagation: Cuttings any time of the year. Transplant spring and fall, 3 ft. o.c. Fertilizer not necessary.

I. LAVANDULA OFFICINALIS (VERA) - LAVANDER - LABIATAE

Sun, 1-2 ft. gray aromatic foliage and flowers (blue) June-Sept. Woody structur evergreen. A good groundcover, where gray foliage is desirable. Should be co

Some chine and shade, 1-2 d. Therers, different studies, carly spring and shifted and shade, 1-2 d. Therers, different studies, carly spring and shifted and shades, a good grow denver in moist and shady accounts. We manned troppy them Seed on division of clumps. The property in spring or fall, 2 ft, o. o. o. thes per stops and markers. Tenders over year with manure and peatmose.

HEMAN'THUS SAERCIFOINGS - WILLIAM LEAVEEAT SUNFLOWER - COMPOSITAES

Sum, 8-10 it, willowilke leaves, yellow flowers in October, but not so important,

shriding perumual, should be out back 1/8 about in May-June to make it more

Stocker, concrease in late in the stalks have the tendency to become loggy and the early.

Propagation Division fall and spring. Transplant spring and fail, my reasonable oil. Farmize apring.

STANCLIVE AMTEGATRIANUEL - OCCUPARSHIP - UMPELLIFERIAE

Suprant comispade, 8-10 ft, white flowers in Jane-July. This is a strictor plant this mostly seemile, but sometimes they survive more years. It will seed their readily, should have good deep coll, best along edges of ponds or streams. Of oil deed stalks and leaves after the seeds have ripened.

Propagation: Seed in early spring (flowers the following year). Transplant when larty could first year) or allow reedling to grow up and thin out: Lates postmoss

AN SHELLION - SINGRIAN ENS - HANDACEAE

and de sonn-shade, 2 ft., whise or hime Howers Map. Out off beaves in early

print, makes a dense closup. If change get noo big, they should be divided.

Exoposition. Taylaion of change or seed. Transplant is fall or spring, 2 ft. o. o.

AND CALE ORDERION AND AND AND DEADWETTEL - LARIATAE

Shedo, 1.2 C., Ellyst-an sen legt, flower insignational in spring, evergreen leaves,

S good an endecover los the sunde, grown rapidly, branches make roots what ever

oner the Cathings cry that of the year. Transplant spring and fell, 3 ft. o. c.

LAVALDELLA OFFICHALE (VERA) - LAVANDER - LABIATAE LA VANDER - LABIATAE LA VANDER - LA BIATAE LA VANDER LA VANDER - LA VANDER -

propagation: Cuttings, transplant spring or fall. 2 ft. o.c. Fertilize slightly in spring.

LIGULARIA CLIVORUM (SENECIO) - BIGLEAF GOLDENRAY - COMPOSITAE

Shade and semi-shade, 3 ft., yellow daisy-like flowers June-July. Striking perennial with big leaves, needs plenty of moisture and a cool location, protect from hot afternoon sun, otherwise leaves will wilt. Cut off dead leaves in spring. Propagation: Seed or division of clumps. Transplant spring and fall, likes plenty of peatmoss and manure, 3 ft. o.c. Fertilize during growing season and top dress with manure in fall or spring.

NEPETA MUSSINI - CATNIP - LABIATAE

Sum 1-2 ft. aromatic slightly greyish leaves, blue flowers. May to fall in succession. A good groundcover for massing. Should be cut back to the ground every spring. If finished flowers are cut off during the summer, a succession of flowers are more reliable.

Propagation: Cuttings, division of clumps. Transplant spring or fall, any good soil, 3 ft. o.c. Fertilize slightly in spring.

4. POLYGONUM AFFINE - HIMALAYAN FLEECEFLOWER - POLYGONACEAE

Full sun and semi-shade, 6 inches, pink to red flowers all summer. This is a good low groundcover, the stems make roots wherever they touch the soil. Cut off dead leaves in spring.

Propagation: Cuttings late summer, transplant spring, 18 inches. Fertilize slightly in spring, will grow in any good soil.

5. POLYGONUM REYNOUTRIA - LOW JAPANESE FLEECEFLOWER - POLYGONA-(CUSPIDATUM COMPACTUM)

Full sun, 2 ft., pink to red flowers Sept. -Oct. Red fall color. Is good groundcover for hot and dry locations, increases by underground roots, any piece of
roots makes a new plant. Cut off dead stalks in spring.
Propagation: Division of clumps and cuttings early spring. Transplant spring and
fall. 3 ft. o.c. Fertilize spring.

PACHISTIMA CANBYI - CELASTRACEAE

Sun and shade, 1-2 ft., evergreen shrub. Is good groundcover shrub, should have sufficient moisture. No maintenance, likes peat moss topdressing.

Propagation: Cuttings all summer under mist. Transplant spring and fall. Likes plenty of peatmoss and leafmold. 2 ft. o. c. Fertilize spring.

RIMBECKIA GOLDSTRUM - BLACK-EYED SUSAN - COMPOSITAE RUDBECKIA NEWMANNI (SPECIOSA)

years and the second second

ropaguiton: Cottings, transplant spring or fall. 2 ft. o.c. Fortiline slughtly

THE RESERVORUM (SENECIO) - BIGLEAF GOLDENRAY - COMPOSITAE

rereminal with hig leaves, needs plenty of moisture and a cool location, protect.

from bot afferroom sur, otherwise leaves will wilk. Out off dend leaves in spring. Iropayation: feed or division of champs. Transpiant spring and fall, takes plenty

pring. If timested flowers are out off during the summer, a succession of flowers

POLYCONUL AFRIND - MINIALAYAN PLINEOFFLOWER - POLYCONACEAR

Toll sun, 2 ft., onth to red flowers Capt. -Oct. Red fall color. Is good ground-

In and shade, 1-2 ft., evergreen shrub. Is good proundcever shrab, should have sufficient moisture, he manatematical likes pent meas topdirecting. Propagator: Outlings all summer under must. Transplant spring and fall, likes

and semi-shade, 3 ft., yellow daisy-like flowers June-July: Saviding

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and recovered in fall of entiring.

all of a constant serious so a constant

Sun and semi-shade. 2 ft., yellow flowers July-Sept. Good for massing and color effect. Cut off dead leaves in spring. Propagation: Cuttings early spring, division of clumps, transplant fall and spring, likes fairly good soil and manure. Fertilize during growing season.

RODGERSIA AESCULIFOLIA - RODGERS FLOWER - SAXIFRAGACEAE

Shade, 2-3 ft., white flowers May-June. A good groundcover and texture plant for the shade, should be allowed to grow ancient in one place. Cut off dead leaves in spring: has thick creeping rootstock. Propagation: Seeds or division of clumps. Transplant spring and fall, likes plenty of peatmoss and manure. 3 ft. o.c. Fertilize during growing season.

SALVIA OSTFRIESLAND AND SUPERBA - SAGE - LABIATAE

Sun, 15 in to 2 1/2 ft. respectively, blue flowers June-Sept. Cut off dead stalks in spring or fall after frost. To prolong the blooming season, nip off flowers as soon as they have finished blooming. Propagation: Cuttings early spring. Transplant spring and fall, any good soil. Fertilize spring: 3 ft. o.c.

SANTOLINA VIRIDIS - LAVENDER COTTON

Sun, 1-2 ft., evergreen, yellow flowers June-July, aromatic foliage, woody structure. A good groundcover for any reasonable soil. It needs cutting back, when it becomes leggy or in spring the browned off parts should be cut. Propagation: Cuttings, Transplant spring or fall. 3 ft. o.c. Fertilize slightly in spring.

SEDUM SPURIUM ALBUM SUPERBUM - CRASSULACEAE

Sun, semi-shade, 4 in., no flowers. Low groundcover, no maintenance. Propagation: Cuttings, divisions spring. Transplanting spring and fall. Any reasonable soil; 2 ft. o. c.

STACHYS LANATA (OLYMICA) - LAMB'S EAR - LABIATAE

Sun, 12 in. woolly gray leaves, pinkish flowers June-July. A good groundcover for Sumy locations and where a gray color is desirable. Cut old leaves in spring. Propagation: Division and cuttings. Transplant spring or fall. 2 ft. o.c. Fertilize slightly in spring.

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define senti-stade: 2 ft., vollow tlowers July-Sout. Cood for massion and) slor effect: Cor off coad leaves in spring. repagation Cortage carrly spring, durision of clumps, mansplant fall coassorers

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Costo, 2-3 ft., white flowers May-Jane. A good groundcover and ferture plant for the shade, should be allowed to grow ancient in one place. Out off dead leaves in the order of the coston of clamps. Transplant spring and fall, likes plants. It consecutions and maintee, 3 ft. o.c., Fruillas that in growing growing season.

TABLE OSTATISHED AND SUPERIES - SACE - LABIATAE

Sould be in to a 1/2 ft. respectively, blue flowers danc-Sept. Out off dead stelles in strain or full alter frost. To protong the blooming season, air off flowers an soon. Singley have finished blooming.

repagnition: Cuttings early spring. Transplant spring and fail, any good soil.

SANTOLINA VIRIDIS - LA VENDEN COTTON

The state of the symptom, yellow flowers June-fully, aromatic toliane, wastly included. A good groundcover for any reasonable soil. It needs cutting back, then it becomes leggy or in apring the browned off parts should be out. Propagation, Cuttings, Transplant spring or fail. 3 th. o. c. Fertilize significations

BEDUM SPORMUM ALBUM SUPERBUM - CHASSULA CEAE

en, semi-elude, e m., no inverte. Low groundcover, no maintenance. Econocition: Outings, divisions equing. Transpicating spring and fall, how

MCHYS LAWATA (OLYTHICA) - LAMES'S BAR - LABIATAE

On, 12 m. woolly gray leaves, puddet Howers June-July. A good grammatorer for interesting and where a gray color is desirable. Out old leaves in appared Propagation - Division and cuttings. Transmissing or fall, 2 m. o. c. Fermilize the state in section.

VERBASCUM OLYMPICUM __MULLEN - SCROPHULARIACEAE
VERBASCUM PANNOSUM
VERBASCUM PULVERULENTUM

Sun, 6-8 ft., Grayish woolly leaves, yellow flower spikes. June-July. A striking biennial, seeds itself readily, thin out unwanted seedlings. Cut off stalks after seeds have developed.

Propagation: Seed. Transplant spring and fall. 5 ft. o.c. Fertilize spring.

RBASCUM OLYMPICUM
RRASCUM PANNOSUM
POLYMPIC PRITTUM

Con 6-8 ft., Grayish woolly leaved, yellow flower spikes. June-Daly. A striking contail, seeds mask reacting thin out unwanted seedlings. Cut off stalks after code have developed.

congution: Seed, Transplant spring and tall, 5 tt. o.c. Fertilice springs.

REFERENCES

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