

LANDSCAPE ARCHITECTURE 1

(LANDSCAPE ARCHITECTURAL DRAWINGS)

GROUP 8

MOMANYI M. PETER	B02/0981/2014
ORWA KEN-ALBERT	B02/0890/2013
JIRONGO RUBY	B02/31698/2014
KIPKOGEI VINCENT	B02/0980/2014
RUKUNDO EMMANUEL	B02/31643/2014
NJERUH JONATHAN	B02/0971/2014
WERE SHARON	B02/31704/2014

1. MASTER PLAN

ORWA KEN-ALBERT KURIYAMA B02/0890/2013

1. MASTER PLAN

- It is the first 2D drawing that is prepared after the site inventory and analysis.
- It contains details of all aspects of the design of the site and how multiple spaces will function together to make a cohesive composition.
- One can make a preliminary master plan to quickly depict the phenomena that are on the place that is being represented

TYPES OF MASTER PLANS

1. Master Plan as a drawing

- This is a preliminary 2D drawing that shows the proposed ultimate site development. They often comprise site work that must be executed in phases over a long time and are thus subject to drastic modification

2. Master Plan as a document

- This is a document that contains statements and points that set out how a particular area can develop and redevelop in the future.

Basically a master plan can be a drawing which shows the proposed development, or a document typed out in words that describes the stages of the proposed development

MASTER PLAN AS A DRAWING

a) Preliminary Master Plan

It is usually done freehand and contains

- Property line
- Existing topography
- Adjoining roads/streets
- Plinths of all structures and the major design elements

LEGEND:

PASTURE

CROPS

FALLOW AREAS

PONDS

WOODLANDS

RECREATION FACILITIES

SHOOTING RANGES



PRELIMINARY
MASTER PLAN

MASTER PLAN AS A DRAWING

b) Final Master Plan

- Precisely drawn (either using drafting equipment or CAD)
- Contains all that is in the preliminary master plan, but there is precision in form, dimension and indication of materials to proposed elements

- LEGEND**
- Forest
 - Old Field Succession
 - Pasture
 - Cropland
 - Pool
 - Stream
 - Road
 - Parking
 - Wetland
 - Stream Crossing
 - Trail
 - Contour Line
 - Power Line
 - Fence
 - Property Line
 - High Voltage Line
 - Water Trough & Minerals
 - Sporting Clays Course
 - 3-D Archery Course
 - Shooting Pavilion
 - Building
 - Cart Barn
 - Lodge
 - Cabin



Notes: 1. The site is located on the east side of the road. The large area of forest and old field succession is the focus of the development and will be retained in its present state. The present stream bed will be widened to the existing 100' width in the west, opening the range to the east, and leaving the 100' width in the east. The stream bed will be widened to the existing 100' width in the west, opening the range to the east, and leaving the 100' width in the east. The stream bed will be widened to the existing 100' width in the west, opening the range to the east, and leaving the 100' width in the east.

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MASTER PLAN

Scale: 1" = 300'
 Contour Interval: 10'

Master Plan

Sheet
 of

Designed by:
R.M. Lilly & W.S. Loff
 Professor Alex Rankin
 Landscape Architecture 271
 West Virginia University
 April 23, 1988

The Planchard Company's
Crooked Run Farm
 Maidsville, West Virginia



2. SITE PLAN

ORWA KEN-ALBERT KURIYAMA B02/0890/2013

2. SITE PLAN

- A dimensioned drawing indicating the form of an existing area and the physical objects existing in it and those to be built or installed upon it
- Shows the proposed landscape design and includes the relevant including existing conditions as well
- Shows the overall layout of the major design elements
- It's presented to the client to give a picture of how the site will be constructed
- Usually done from a scale of 1:100 to 1:1000

Master Plan vs Site Plan

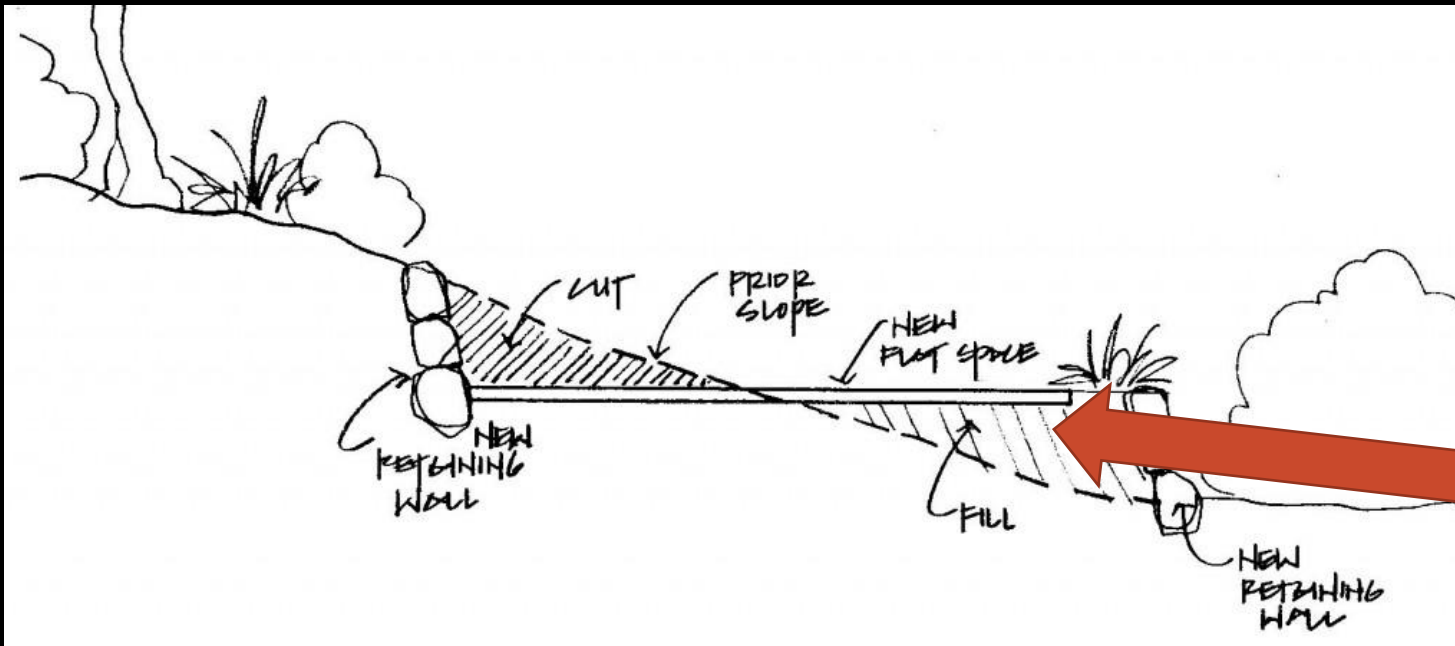
- The two terms are often used interchangeably but they are different
- They may both show the same things, however, a master plan is more of a preliminary proposal where the elements of the design are highlighted and are subject to change
- On the other hand, a site plan is more detailed even to the level of dimensioning and positioning of the elements
- A master plan can also refer to the document, but a site plan can only be a drawing

3. GRADING PLAN

JIRONGO RUBY B02/31698/2014

SITE GRADING

- Site grading is the design or use of either a level base or slope for
 1. Construction work
 2. Landscaping and garden improvements
 3. Surface drainage
 4. Foundation or the base coarse for a road or railway.
- Grading is an integral part of landscape architectural design and should be considered simultaneously with the layout of functions and forms in plan

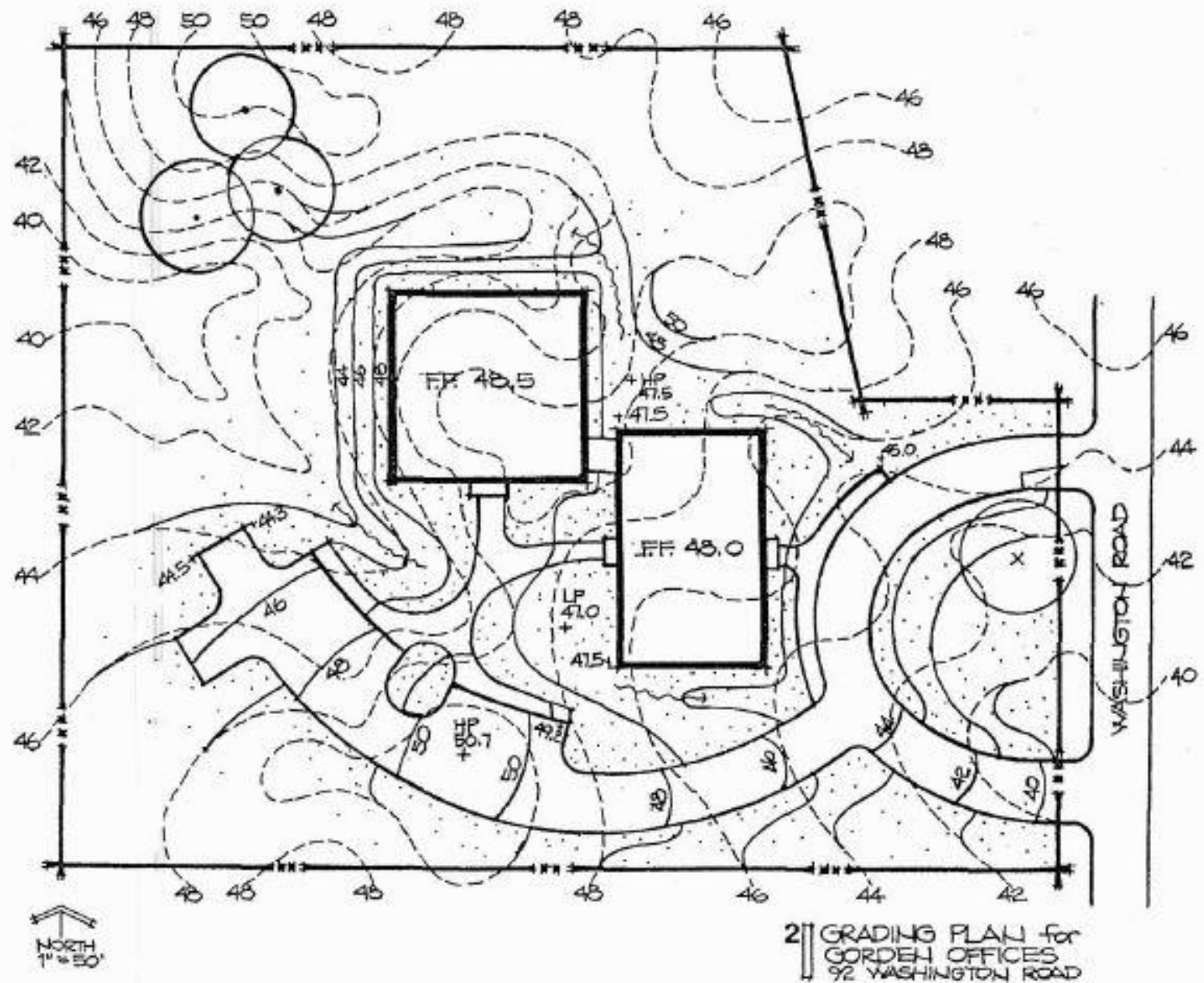


Fill - when soil is added to a portion of the site through grading
Cut - is the taking away or excavation of soil from a portion of the site

- The vertical manipulation of the land is fully as important as the horizontal organization of spaces and functions themselves.
- Usually grading on a given site requires both cut and fill. Fill can be identified on a plan when a proposed contour is moved downhill from the existing contour location.

GRADING PLAN

- A plan drawn specifically to show the proposed grading of a site is termed a "grading plan"
- It shows both existing and proposed contour lines as well as the outline of all buildings, roads, walks, walls, and other structural elements of the design.
- The grading plan, which is one of many construction drawings, also shows the location of drainage structures such as drop inlets and catch basins as well as precise elevation at specific points throughout the site by means of spot grades.



2 GRADING PLAN for
GARDEN OFFICES
92 WASHINGTON ROAD

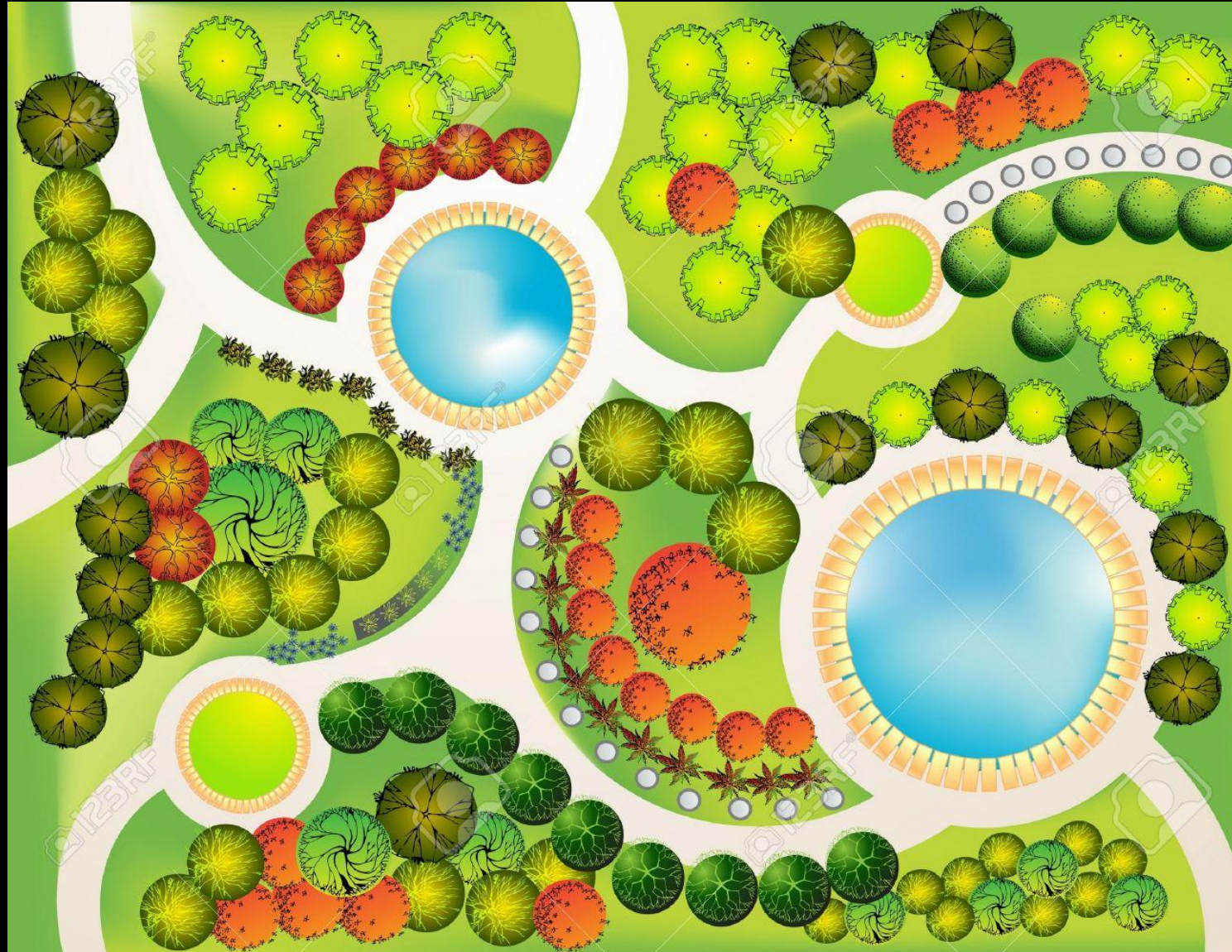
EXAMPLE OF A GRADING PLAN.

- Site grading plans must not only solve practical requirements and meet various governmental standards but also create landforms that contribute to the aesthetic ambitions of overall landscape site design and architectural design concepts.

4. PLANTING PLAN

RUKUNDO EMMANUEL B02/31643/2014

Example of a planting plan



Code	Quantity	Botanical Name	Common Name	Scheduled Size	Remarks
AL RU	3	Albizia leonensis	Queen butterfly	600mm	Has an upright mass shape and dark red foliage
AS OB	12	Asplenium nidus	Stone spleenwort	1.2m	Dark green bushy shrub with white flowers
CL ME	17	Clusia rosea	Flea fly	PH 8	Has thick strap-like leaves and bright orange flowers
CY RE	3	Cyperus rotundus	Cyperid	1.2m	Attractive plant with black dark green shiny fronds
GA VI	26	Gardenia variegata	Gardenia	PH 12	Dark green bushy shrub with white scented flowers
GR LI	14	Grassia linearis	Brodiaea	1.2m	Native grassy shrub with bright green leaves
HP BM	8	Hovea frutescens	Kanika palm	1.2m	Lush hairy tropical palm with dark green fronds
HR BS	10	Hibiscus rosa-sinensis	Hibiscus	1.2m	Dark green bushy shrub with white flowers
HO FO	1	Hovea frutescens	Kanika palm	1.8m	Lush hairy tropical palm with dark green fronds
JA MW	1	Jacaranda mimosoides	Jacaranda	2.2m	Elegant small tree with dark red leaves in summer
LD TA	37	Lomandra teretifolia	Lomandra	PH 8	Dense healthy grass with fine green foliage
OP PL	254	Ornithoglossum planicaule	Mundy grass	PH 2	Strappy leaved groundcover with dark green leaves
OR SP	12	Orchid species	Orchid	various	Transplant existing to these locations
PH NO	5	Phoraria nodulosa	Drift pine palm	PH 18	Monocot palm with feathery foliage
PH XA	85	Phibolobolus 'Nana'	Phibolobolus	PH 8	Lush tropical shrub with attractive lobed leaves
TR JA	14	Tradescantia virginiana	Star Jasmine	PH 5	Dark green shrub with fragrant white flowers
VR JA	4	Virexa 'Lily'	Virexa	PH 12	Compact tropical shrub with bright red flowers
VR H	1	Virexa hirsuta	King Butterfly	PH 18	Attractive tree green striped terminal



Planting notes:
 1. Kern and transplant existing bromeliads to new paths. Keep existing ferns and shrubs.

ADAM SHUTER DESIGN CO.
 28 HOME HEKE ROAD - KERIKERI
 027 642-0283

PROJECT:
 HEDONIST RESIDENCE
 PLANTING PLAN

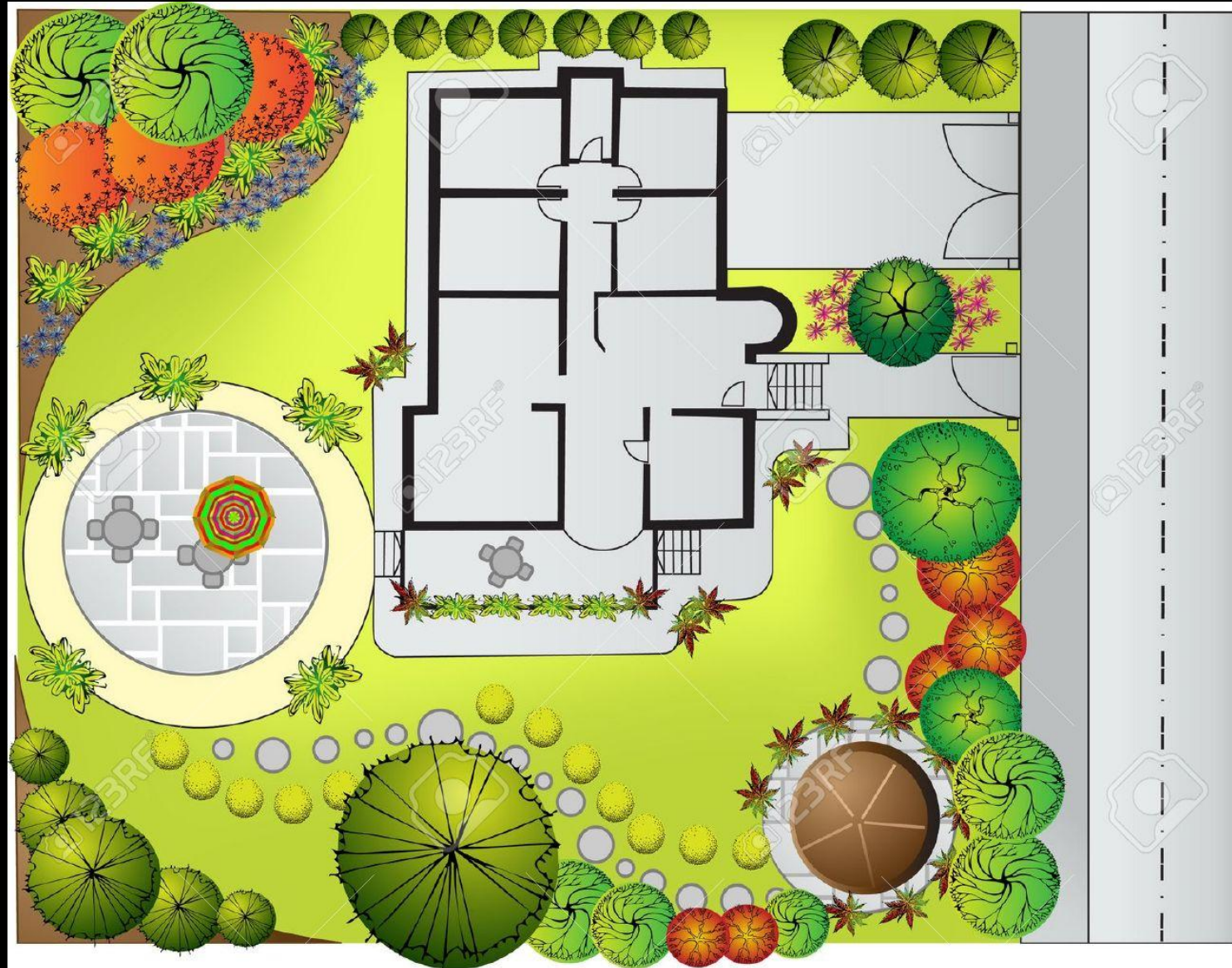
DATE: 5 JULY 2010
 SCALE: 1:500 @ 1

- A Planting plan is one which shows the arrangement, type and scheme of plants, trees and other forms of vegetation/plant materials to be used on the site.
- It has a legend explaining the type of plant material to be used on the site.
- This plan verifies number of plants, tree count, grass coverage and square footage.

5. LAYOUT PLAN

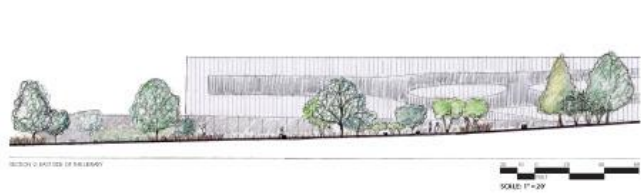
RUKUNDO EMMANUEL B02/31643/2014

Example of a layout plan





- A layout plan is a construction drawing showing design or schematic arrangement of an area to be built.
- It shows proposed or existing buildings, walkways, walls, parking spaces, steps, plants, hedges and other landscape forms, and how they fit together.



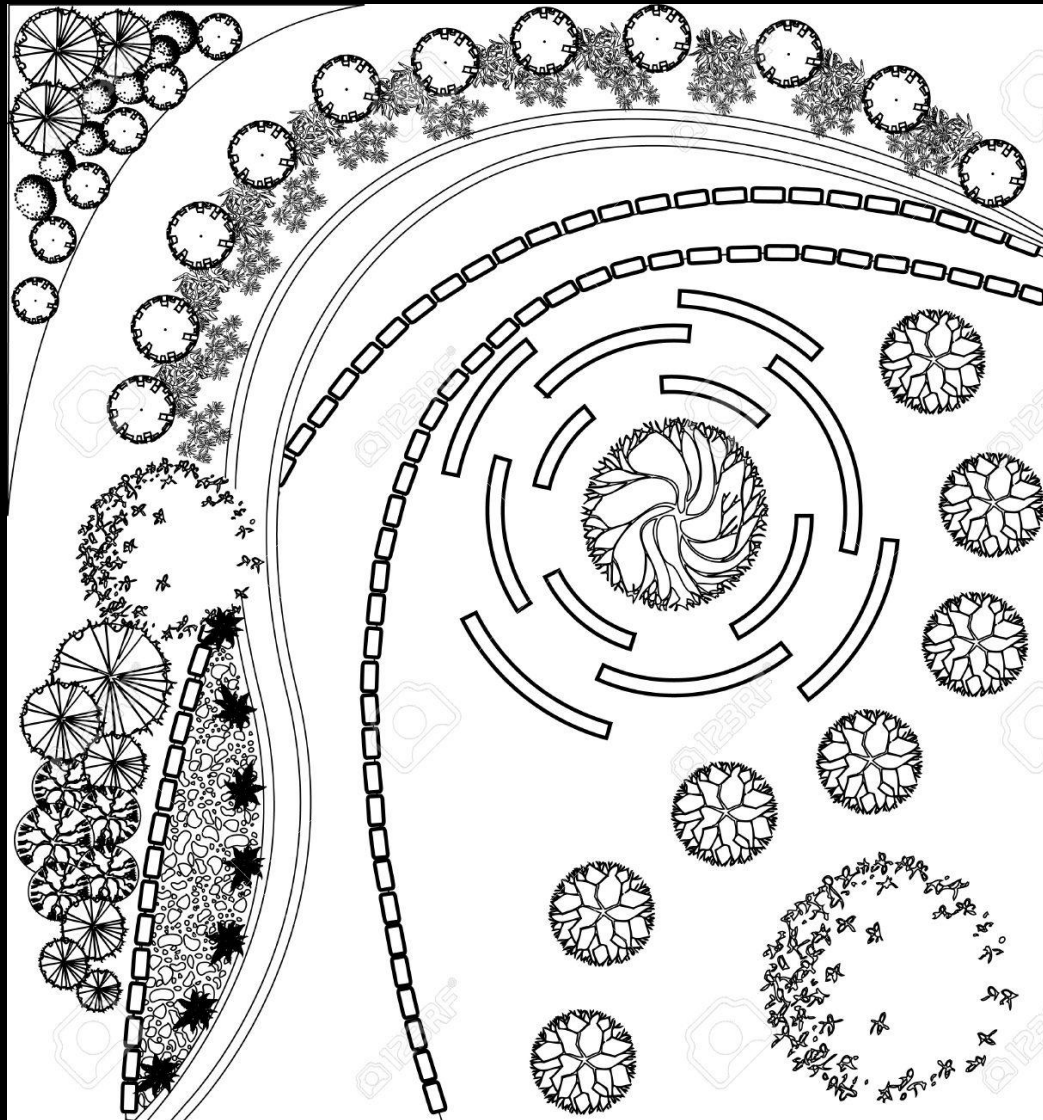
PLANTING SCHEDULE

PLANT	QTY	NOTES	REMARKS	QTY	NOTES	REMARKS
...

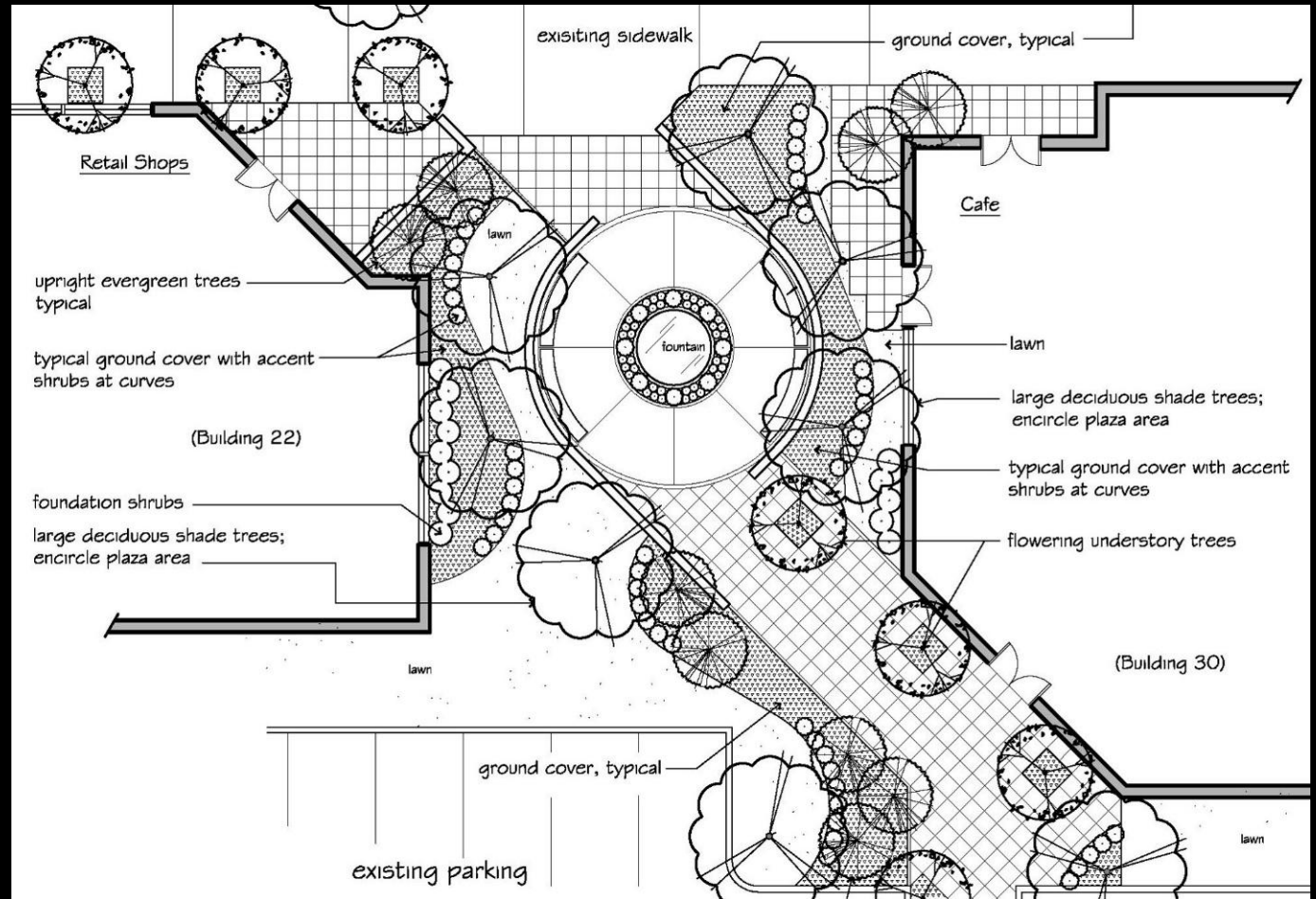
- It provides minimum distance between plants and buildings (4ft from the face of a building or pavement)
- Alignment and spacing between trees.
- Various graphics are used to differentiate the plant materials to be used.



- There is use of different graphic matter on the plan to show type of material/greenery and its coverage on site.
- This is to establish overall appearance , relative importance and relationship between the materials and to achieve a smooth flow of information and eye movement for maximum effectiveness.



- Other layout plans are prepared to explore different arrangements before the final layout is made.



6. LIGHTING PLAN

SHARON PHILLIPA WERE B02/31704/2014

INTRODUCTION

Architectural lighting design is a field concerned with the design of lighting systems including natural light, electric light, or both, to serve human needs.

Lighting has a profound effect on the look and feel of a space and can greatly influence :ones interaction with a building

Major factors that are considered to achieve a working lighting plan:

- The measure of function the lighting plays
- The aesthetic appeal of the space
- The energy efficiency to make sure light is not wasted (over-illumination)

To achieve this, one must take into account:

- Purpose

This is the kind of human activity for which the lighting is to be provided

- Size

This is the area of the space to be covered which determines the amount and distribution of light required

- Type

Different types of lighting perform differently
e.g. the colour of lights chosen may affect how
one views the space as a whole

- Fixtures

Main purpose is to be put in a way to avoid glare
They come in a variety of styles for various
functions.

Examples of light fixtures

- Dimmer
- Motion detector
- Timer
- Touch
- 3 way 2 circuit switch
- X10 systems

TYPES OF LIGHTING

General lighting - provides an area with general illumination

Task lighting - used in the performance of specific duties

Accent lighting - concentrated light on an area to to create a visual point of interest

LANDSCAPE LIGHTING

This enhances beauty of a property while providing safety and security

Lighting provides safe travel along a pathway and also a gorgeous view by enjoying landscaping even in the dark

LIGHTING STRATEGIES

Downlighting- creates a gentle diffuse light by aiming light downwards

Uplighting- light is aimed upward to emphasize on the contrast of dark shadows and bright light

Crosslighting- eliminates shadows by lighting a focal point from both sides



crosslighting

uplighting

downlighting



COMMON AREAS TO BE LIT

- Pathways
- Patios
- Driveways
- Trees
- Water features
- Architectural elements



Keep in mind :

Views from indoors - the lighting design must be integrated with the landscape

Focal points- 1 or 2 areas to draw attention to.

Usually a structure with the the best shadow effect

Creating a sense of depth

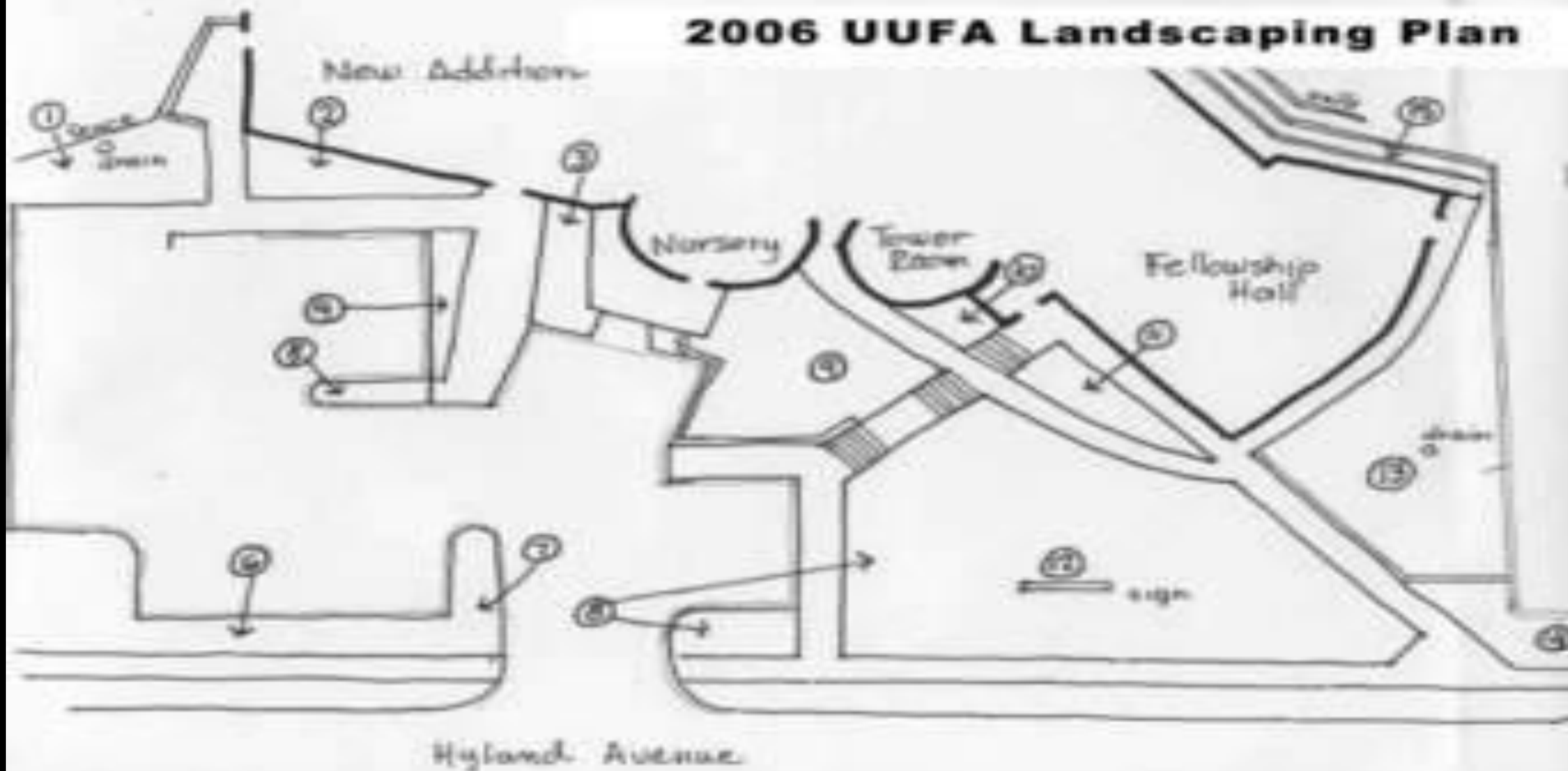
Ambient vs Spotlighting

THINGS TO AVOID

- Lack of variety- add visual interest to the nighttime landscape eg use of spotlights, floodlights, pathlights
- Glare, Light pollution, Light trespass- light sources should be hidden to prevent direct glare and trespass to another space

- Over-symmetrical fixture placements
- Unbalanced lighting- should be placed in ways to balance the entire canvas of a property and not divide it.
- over exaggerating a style

2006 UUFA Landscaping Plan



7. IRRIGATION PLAN

NJERUH JONATHAN B02/0971/2014

IRRIGATION PLAN

- Irrigation is the artificial application of water to the land or soil.
- It is used to assist in the growing and maintenance of landscaping planters and revegetation of disturbed soils
- It influences the appearance of a landscape and brings a given feeling depending on the type and pattern

Types of irrigation

SPRINKLER IRRIGATION

- Water is applied in form of sprays sometimes simulating natural rainfall.
- If well planned, designed and operated, it can be used in sloping land to reduce erosion where other systems are not possible.



Use of sprinkler systems in enhancing landscape



Design of Sprinkler Irrigation System

Objectives and Procedures

- Provide Sufficient Flow Capacity to meet the Irrigation Demand
- Ensure that the Least Irrigated Plant receives adequate Water
- Ensure Uniform Distribution of Water.

TYPES OF IRRIGATION

SURFACE IRRIGATION

- Water is applied to the field in either the controlled or uncontrolled manner.
- Controlled: Water is applied from the head ditch and guided by corrugations, furrows, borders, or ridges.
- Uncontrolled: Wild flooding.
- Surface irrigation is entirely practiced where water is abundant. The low initial cost of development is later offset by high labour cost of applying water. There are deep percolation, runoff and drainage problems



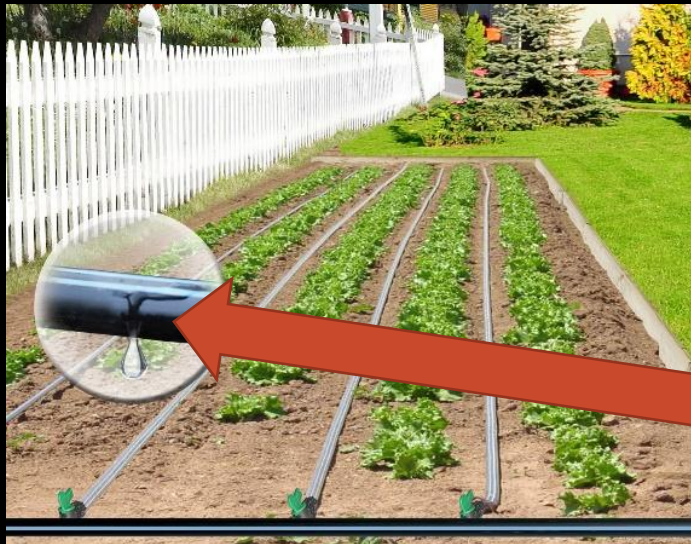
DRIP OR TRICKLE IRRIGATION



Water is applied directly to the crop i.e. entire field is not wetted

There is a low pressure system.

- There is a slow rate of water application somewhat matching the consumptive use.
- There is reduced evaporation, only potential transpiration is considered.

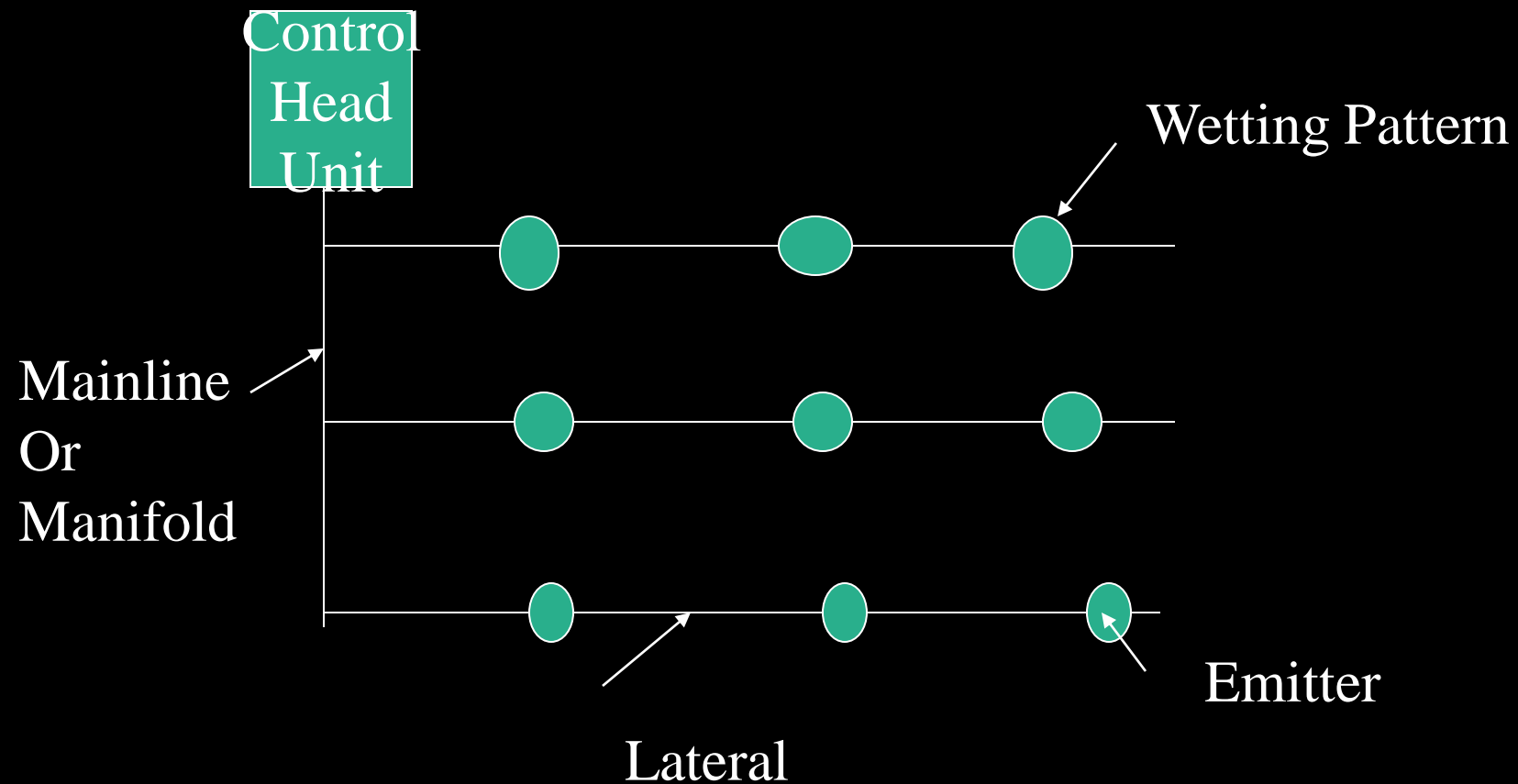


Drip line

Drip irrigation and landscaping



Components of a Drip Irrigation System

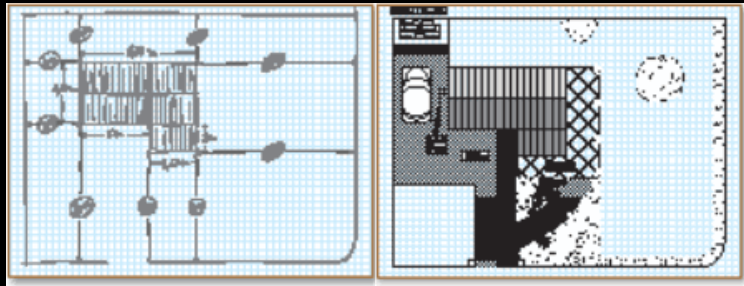


SUB-SURFACE IRRIGATION

- **Applied** in places where natural soil and topographic condition favor water application to the soil under the surface, a practice called sub-surface irrigation. These conditions include:
 - a) Impervious layer at 15 cm depth or more
 - b) Pervious soil underlying
 - c) Uniform topographic condition
 - d) Moderate slopes

Simple installation process of a sprinkler system

1 Draw the garden plan



2 choice sprinkler



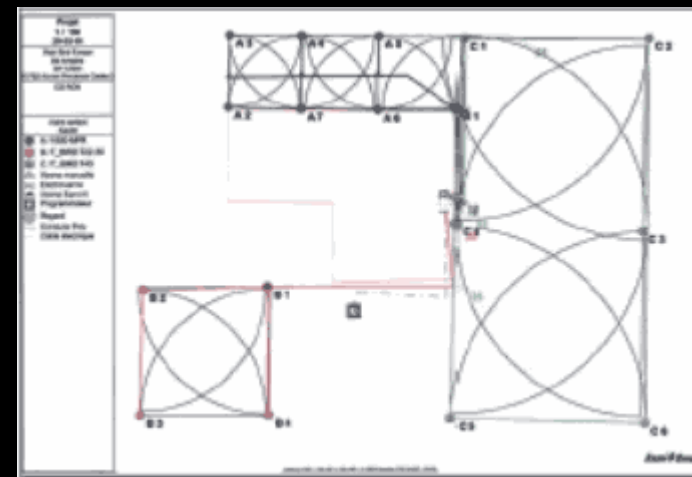
3. indicate on a map the location of sprinklers



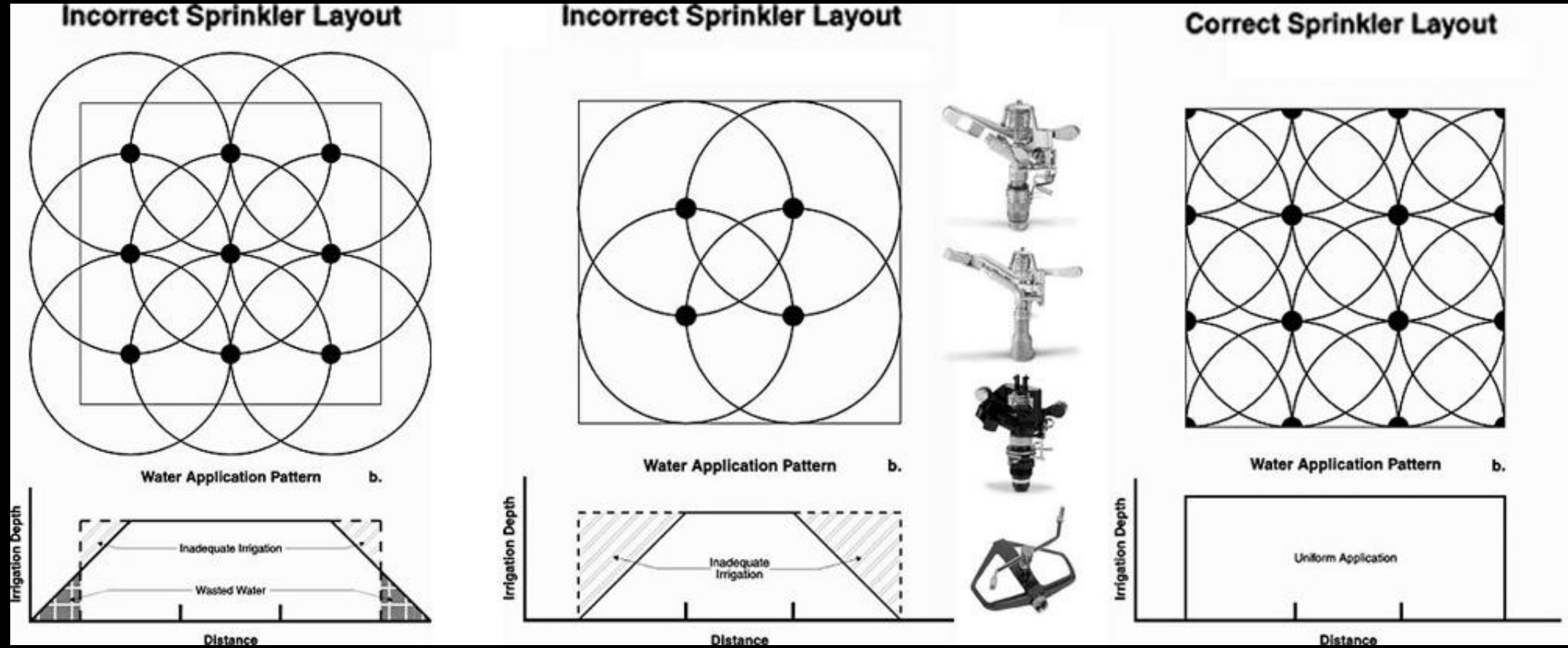
4. establish the pressure and flow of the facility



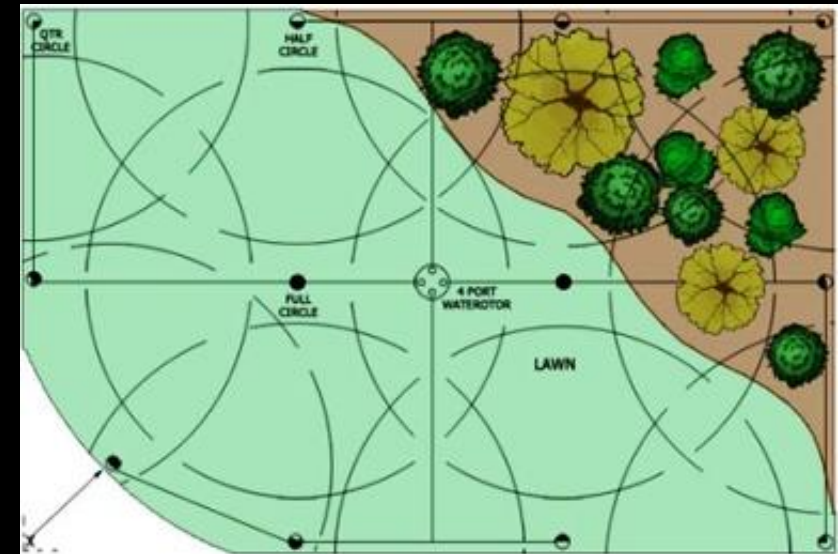
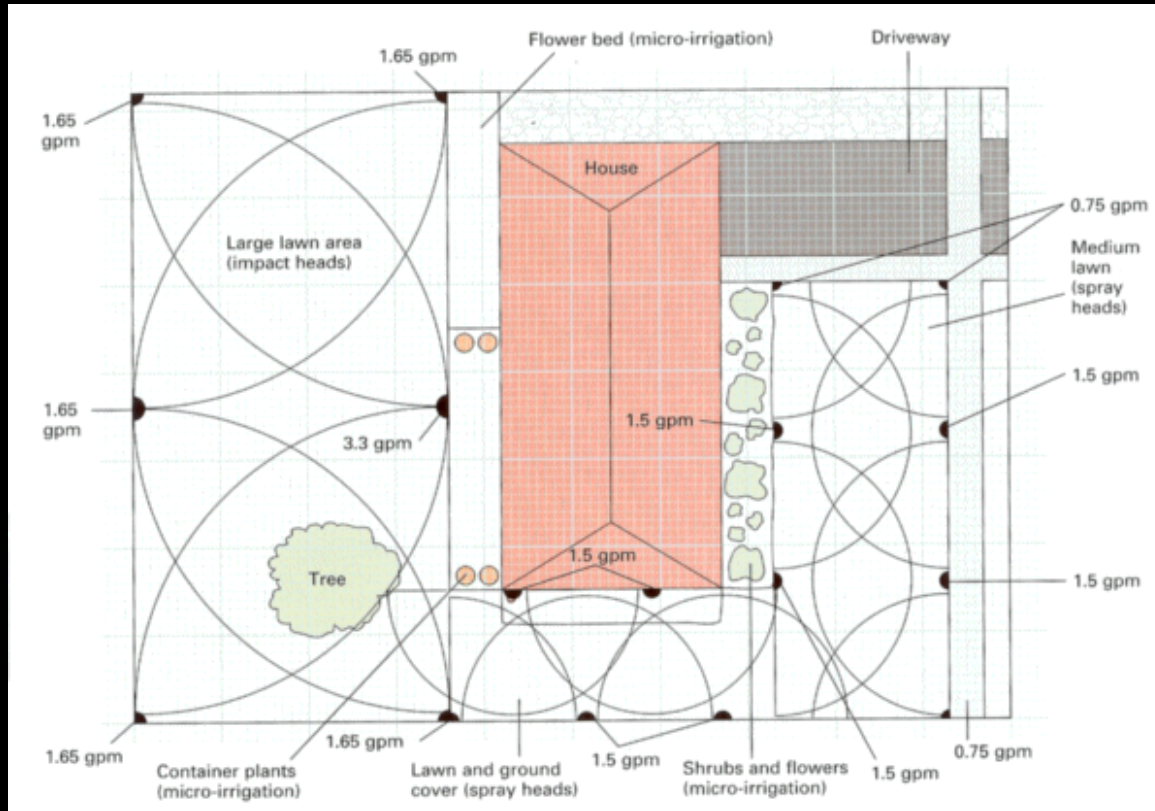
5 final plan of automatic irrigation system



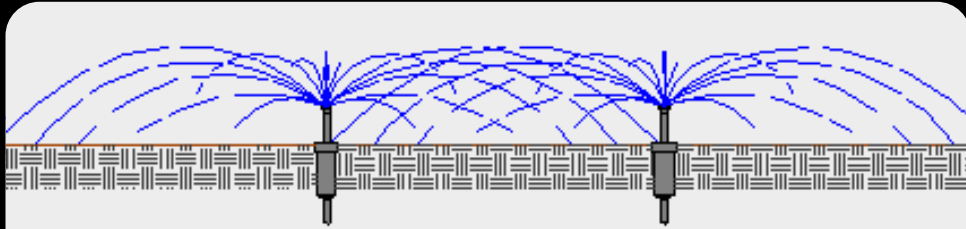
Irrigation plans



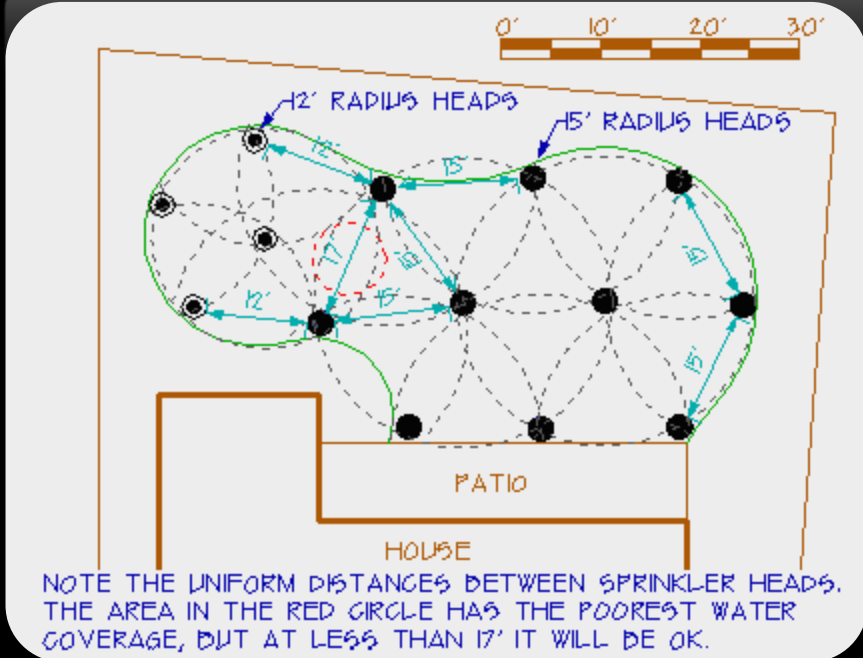
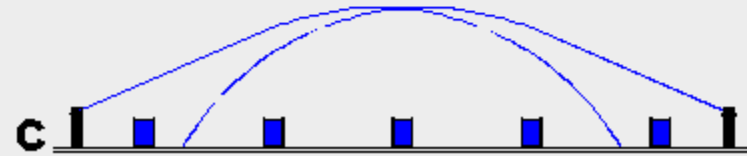
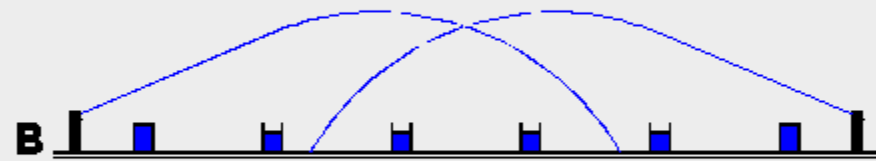
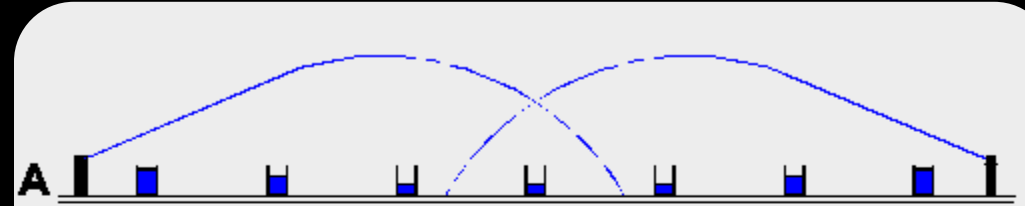
Irrigation plans



Sprinkler types and specifications



"HEAD-TO-HEAD COVERAGE"
THE WATER FROM ONE SPRINKLER
GOES ALL THE WAY TO THE NEXT
SPRINKLER



NOTE THE UNIFORM DISTANCES BETWEEN SPRINKLER HEADS.
THE AREA IN THE RED CIRCLE HAS THE POOREST WATER
COVERAGE, BUT AT LESS THAN 17' IT WILL BE OK.

COVERAGE' BUT AT LESS THAN 17' IT WILL BE OK'
THE AREA IN THE RED CIRCLE HAS THE POOREST WATER
COVERAGE, BUT AT LESS THAN 17' IT WILL BE OK'

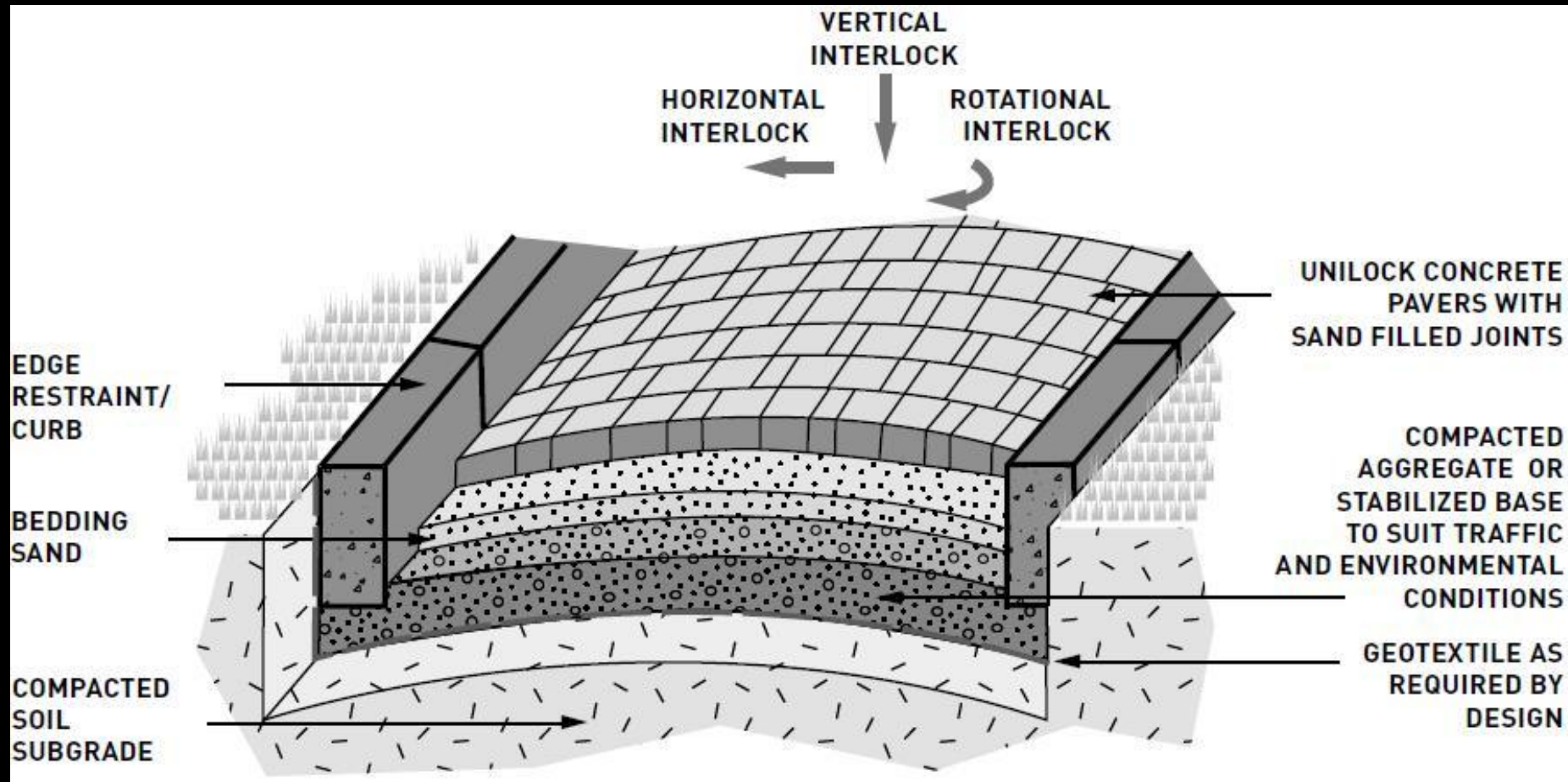


8. CONSTRUCTION DETAILS

MOMANYI M. PETER B02/0981/2014

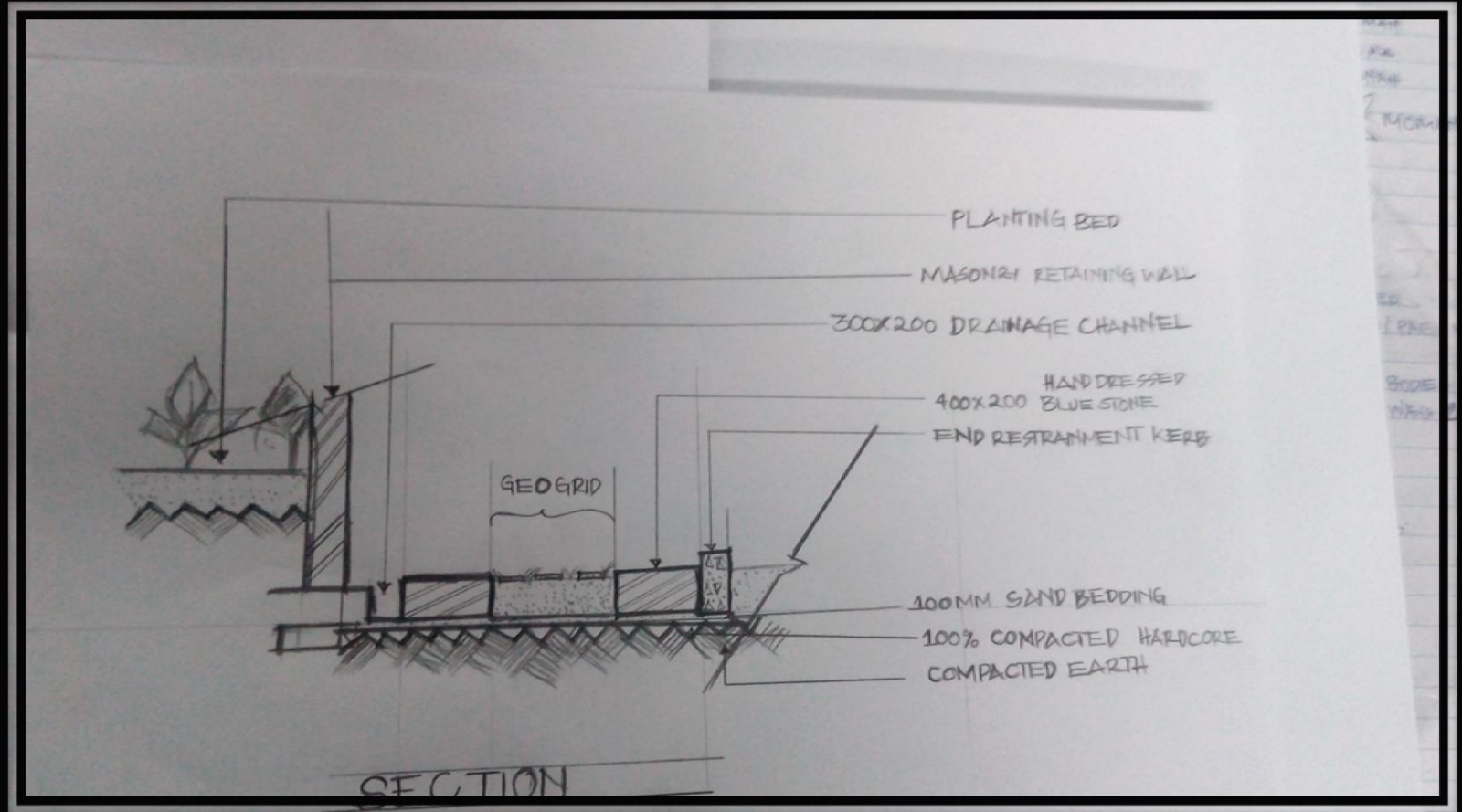
Landscaping construction details

The construction details in landscaping are normally for hardscapes as well as the structural element in the landscape in the landscaping plan.



DRIVE WAY

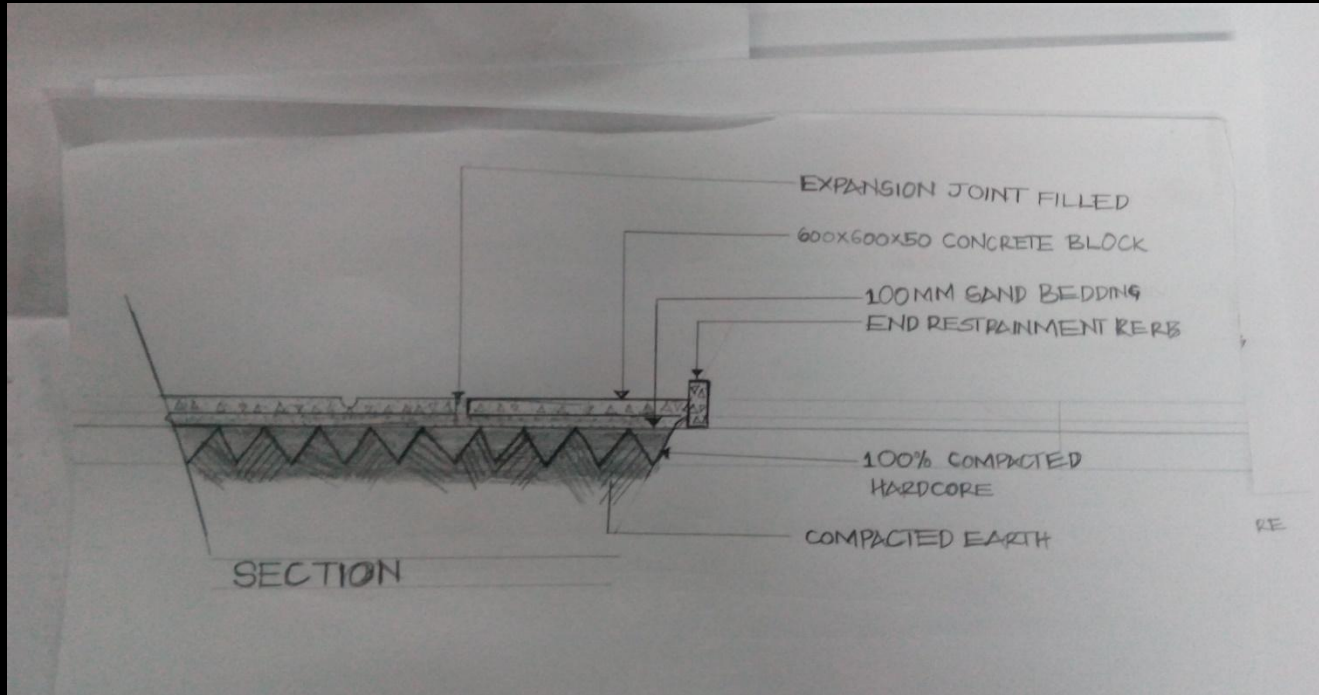
GEO GRID AT THE DRIVEWAY



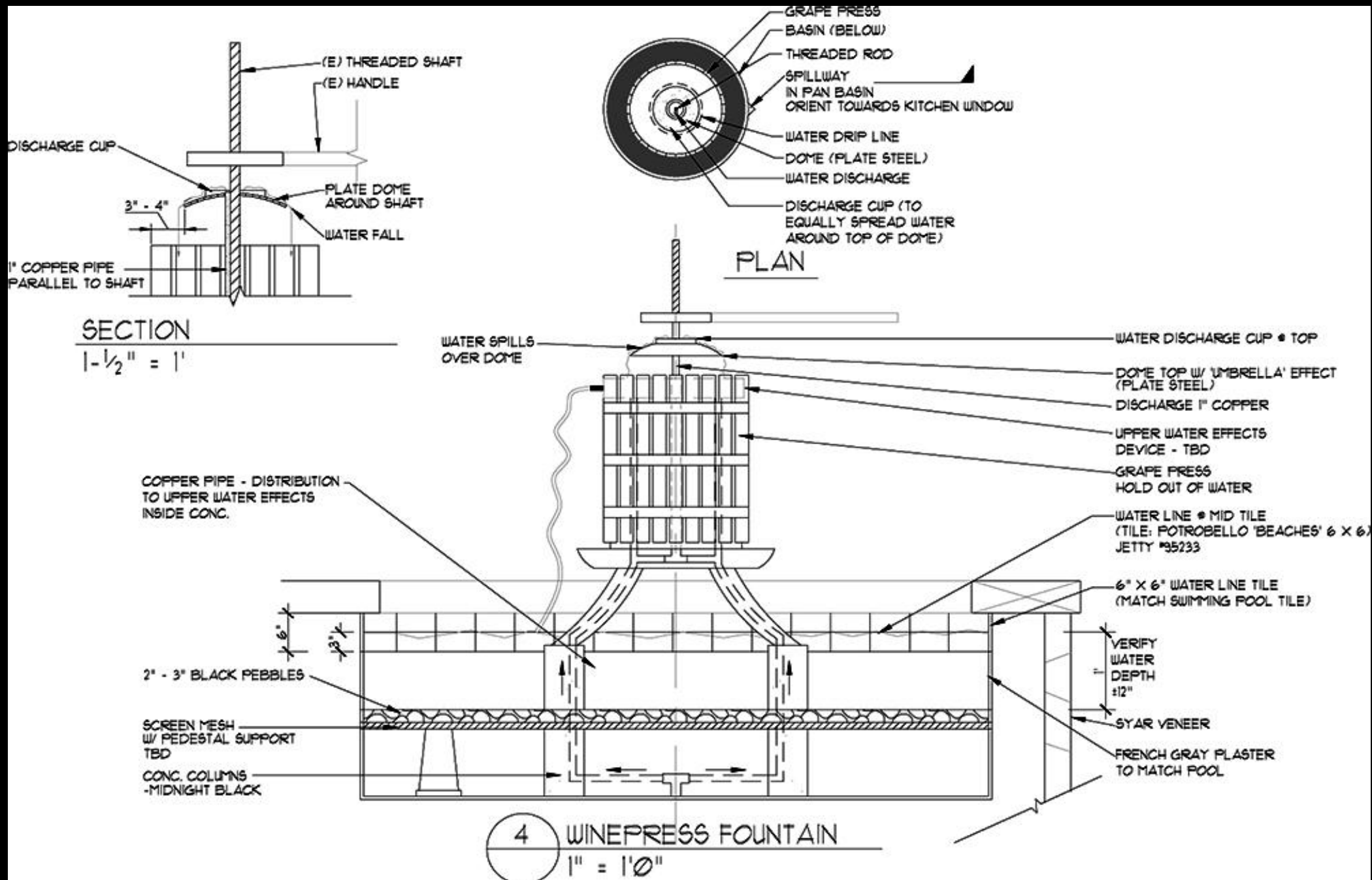
SOIL FOR PLANTING ... NORMALLY SLIGHTLY LOWER THAN THE PATH TRACED BY WHEELS

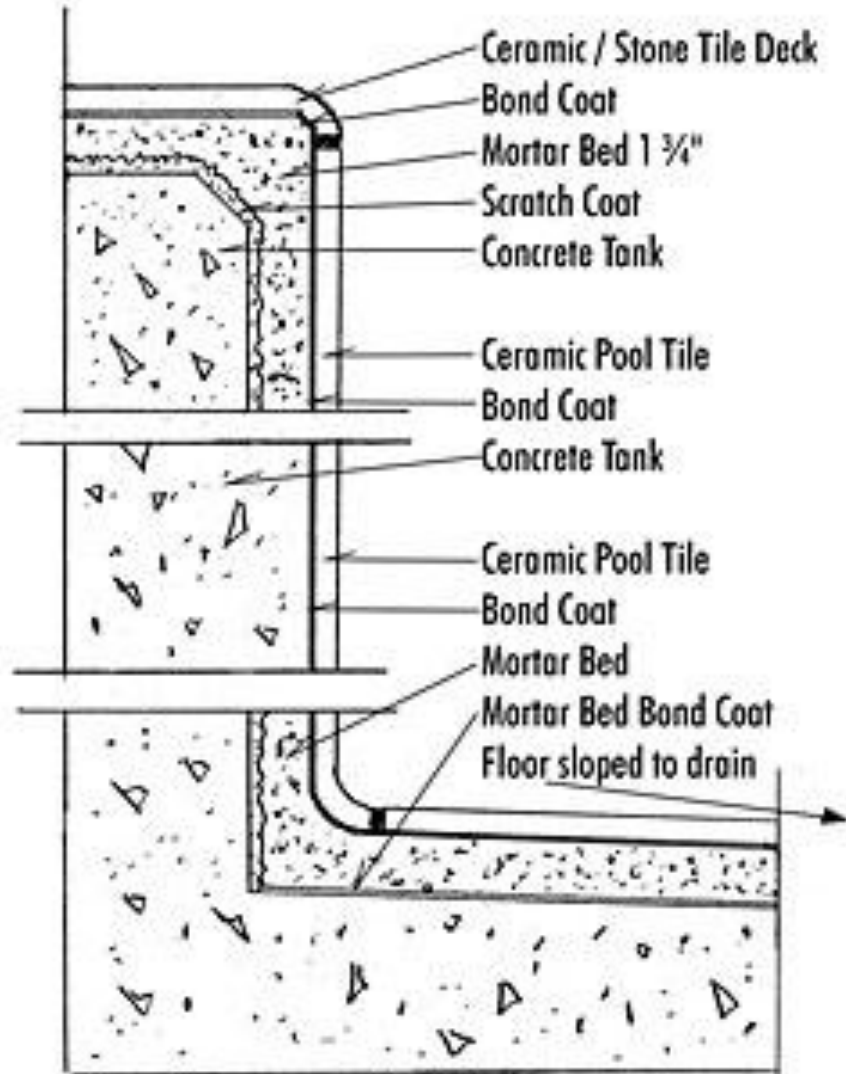
PAVEMENTS

INTEGRATION OF GEO-GRID ON PAVERS TO ALLOW WATER INFILTRATION AS WELL AS REDUCE THE AREA COVERED BY HARDSCAPES



MAJOR CONSIDERATION DURING CONSTRUCTION OF PAVEMENT IS TO ACHIEVE STABLE GROUND SO THERE IS NO FURTHER SETTLEMENT DURING USE WHICH MAY LEAD TO BREAKING OF PAVERS.





IN GROND WATER FEATURES NEED TO BE WATER TIGHT THEREFORE AVOIDING WATER SEEPAGE INTO GROUND

SECTION THROUGH A FOUNTAIN WALL



ROCKS AND BOULDERS CAN EXIST NATURALLY OR INTEGRATED INTO SITE DURING LANDSCAPING. THE CONSTRUCTION DETAILS FOR ROCKS KEEP VARYING FROM ONE ROCK TO ANOTHER.....ELEVATIONAL PICTURES ARE NORMALLY USED TO ACHIEVE THESE CONSTRUCTION WORKS

9. PROJECT REPORT

An assessment that takes place during a project

KIPKOGEI VINCENT B02/0980/2014

PROJECT REPORT FORMAT

PROJECT REPORT
(NAME OF THE PROJECT)

Vicinity Map

Show:

1. Project limits
2. North Arrow

APPROVAL FROM THE AUTHORITIES

I have reviewed the right of way information contained in this Project Report (New Highway Planting & Highway Planting Restoration) and the Right of Way Data Sheet attached hereto, and find the data to be complete, current, and accurate:

DEPUTY DISTRICT DIRECTOR – RIGHT OF WAY

APPROVAL RECOMMENDED:

PROJECT MANAGER

DISTRICT LANDSCAPE ARCHITECT

DISTRICT MAINTENANCE ENGINEER

DISTRICT VEGETATION MANAGEMENT COMMITTEE CHAIRPERSON

APPROVED:

DISTRICT DIRECTOR

DATE

DECLARATION BY THE PROJECT ARCHITECT

This Project Report (**NAME OF THE PROJECT**) has been prepared under the direction of the following licensed landscape architect. The licensed landscape architect attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based.

LICENSED LANDSCAPE ARCHITECT

DATE

STAMP

**Outline For
PROJECT REPORT
(NAME OF THE PROJECT)**

1. 1.INTRODUCTION

A. Dimensions; gross length and area

B. Type of proposed work and source of financing

2. 2.RECOMMENDATION

3. 3. BACKGROUND

A. A. Dates of previous planting work

D. project study report

B. B. Project History

E. Issues

C. C. Existing facility

F. Commitments e.g. environmental mitigation

4. 4. NEED and PURPOSE

A. A. Deficiencies

C. Maintenance

B. B. Water Consumption

D. Paybacks

5. 5. PROPOSAL

A. A. Preliminary Design

D. Nonstandard Design Features

B. B. Safety consideration

E. Project Cost Estimate

C. C. Roadside Management

6. 6. CONSIDERATIONS REQUIRING DISCUSSION

- A. Hazardous Materials
- B. Value Analysis
- C. Resource Conservation
- D. Storm Water Pollution and Prevention
- E. Use of Wildflowers
- F. Right of Way
- G. Environmental Compliance

7. 7. OTHER CONSIDERATIONS AS APPROPRIATE

- A. Permits and Other Approvals
- B. Consistency With Other Planning
- C. Railroad Involvement
- D. Cooperative Agreements

10. PROJECT PERSONNEL

11. LIST OF ATTACHMENTS

A. Preliminary Design Plan

B. Design Concept

C. Environmental Documentation

D. Right-of-Way Data Sheet

E. Aerial Photographs

F. Draft Cooperative Agreement

G . Cost Justification

H. Storm Water Data Report

I. Preliminary Project Cost Estimate

- <http://www.surroundslandscaping.com/landscape-site-planning-landscape-design/>
- ASLA Glossary: <https://www.asla.org/nonmembers/publicrelations/glossary.htm>

Grading with Design in Mind: Landscape Site Grading Principles

by Bruce G. Sharky

Basic elements of landscape architectural design by Norman K.

Booth

A Visual Dictionary of Architecture by Francis D. K. Ching