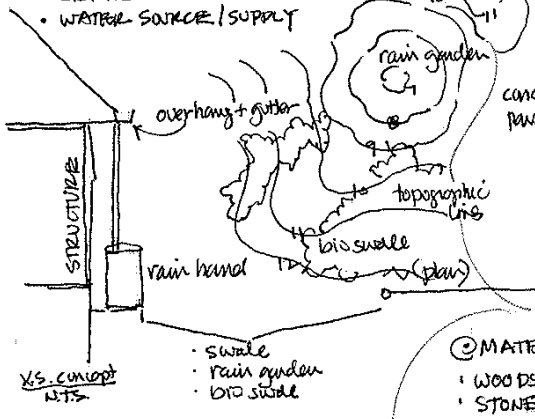
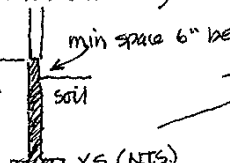
- rain, snow, flooding
- season | regional influences
- surface drainage | subsurface
- water holding | harvest
- aesthetics pool, fountain, pond
- plant utility | weather
- recreational
- natural feature
- soil composition | type | distribution
- IRRIGATION – DRIP | AERIAL | OTHER
- SEPTIC – WELL
- WATER SOURCE | SUPPLY



XS. concept N.T.S.

- swale
- rain garden
- bio swale

(5) (water moves down hill)

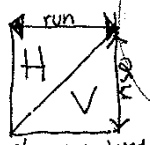


- crawl space
- slab
- basement

XS (N.T.S.)

+ typical grade %

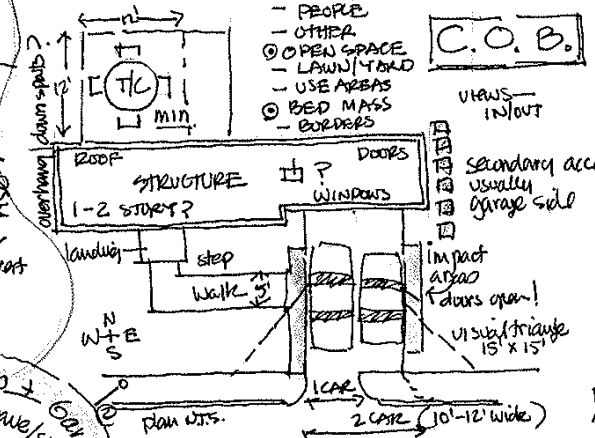
	min	max
lawns	2%	33%
unmown	2%	50%
athletic	.5%	2%
planted	.5%	10%
berm	.75%	20%
conc. plaza	.75%	2.5%
paver plaza	1.5%	2.5%
walk	.75%	10%
drives	1%	20%
ADA	max	8%
parking	1%	5%
swale	1%	10%
construction	1%	



% = per 100' run
ratio V/H

(1)

ENERGY
UTILITIES ?
ABOVE – BELOW



(2)

- (O) CIRCULATION
  - CARS | VEHICLES | BIKES
  - PEOPLE
  - OTHER
- (O) OPEN SPACE
  - LAWN | YARD
  - USE AREAS
- (O) BED MASS
  - BORDERS

C.O.B.

VIEWS IN | OUT

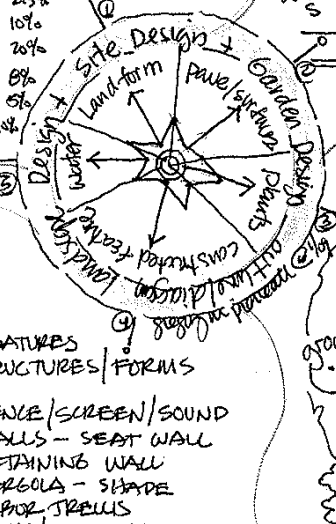
secondary access usually garage side

- CONCRETE
- ASPHALT
- BRICK
- PAVERS
- PORUS PAVERS
- GRAVEL
- LIMESTONE
- MULCH
- COMPOST
- TURF
- WILDFLOWERS | PRAIRIE
- DECK
- STEPPING STONES MODULAR
- recycle | reuse | re purpose

(O) FAMILY USES
USES
PETS
SPECIAL

GREG PIERCEALL
piercea@purdue.edu

PROPERTY SIZE WITH
ARCHITECTURAL STYLE
SCALE, LOT | STRUCTURE RATIO
MATERIALS, COLOR, FORMS (2)



(O) MATERIALS | FINISHES

- WOODS
- STONE
- MASONARY
- METAL | PLASTIC
- GLASS
- OTHER
- CONCRETE
- SOIL
- RECYCLE
- reuse
- re purpose

+ permits
+ footing
– safety

(O) MISC
PATTERN
FORM
DIMENSIONS
SOURCE
DELIVERY

(4)

FEATURES
(O) STRUCTURES | FORMS

- FENCE | SCREEN | SOUND
- WALLS – SEAT WALL
- RETAINING WALL
- PERGOLA – SHADE
- ARBOR, TRELLIS
- DECK | RAILINGS
- BRIDGE
- ROOF TOP
- PLANTERS
- POOLS
- STORAGE
- RAMPS
- STEPS
- LIGHTING
- FURNITURE
- ACCESSORIES (3)

FORM OPTS

- RECT
- DIAGONAL
- CURVILINEAR
- IRREGULAR
- RADIAL
- ARC | TANG

COB

canopy

+ C.O.B.
influences spacing
placement
position

understory

ground plane

(O) LAYERS (3) plant

C = 25-50' spd
U = 12-20' spd
G = 6"-10' spd

SYMBOLS
drawings vs. expectations

INTERIOR PLANTS
+ INTERIOR SCAPES

(O) FUNCTIONS (4)

+ ARCHITECTURAL
CEILING | WALLS | FLOORS

+ ENGINEERING AIR | HEAT
SOUND | LIGHT | EROSION | WIND

+ CLIMATE CONTROL
SUN | SHADE

– AESTHETIC VISUAL –
LINE | FORM | TEXTURE | COLOR
SENSES –
SOUND | SIGHT | TOUCH | SMELL
TASTE

- Existing
+ proposed
⊕ relocated
∅ removed

LINE
HIERARCHY
TOP OPEN
BOTTOM DENSITY

Scaled graphic | written

0 5 10 20

SCALE 1" = 10' engineering
SCALE 1" = 8' architectural

NORTH INDICATION
TOP or → RIGHT

(O) CATEGORIES

+ NATIVE
+ NATURALIZED
+ ORNAMENTAL
+ EXOTIC
+ EXISTING
+ PROPOSED
+ RELOCATED

(O) INFLUENCES

+ HARDINESS (COLD)(HOT)
+ SOIL | DRAINAGE
+ EXPOSURE SUN | WIND
+ LOCATION ASPECT
+ CONTEXT
+ ASPECT N | S | E | W
+ WATER SOURCE pH

LEED CRITERIA | SITE PLANNING

(O) sustainable site 14 pts
site selection, urban redevelop, brownfield, alter. trans, reduced site disturbance, stormwater mgmt, landscape and ext. design to reduce heat island, light pollution.

(O) water efficiency landscape, wastewater 5 pts

(O) energy renewable, measurement, verification 17 pts

(O) materials | resources building reuse, const. waste mgmt, resource reuse, recycled content, local | regional materials, rapid renewal materials, certified wood 15 pts

(O) indoor environmental quality daylight, views 15 pts.

(O) innovation and design process 5 pts.

certified 26-32 silver 33-38 gold 39-51 platinum 52-69