



**ITEM #4:** For the ARCHITECTURAL COMMISSION on MONDAY, May 19th @ 7:00 P.M.

**REQUEST:** Consideration of a request for landscape lighting for property located at 6211 Pine Cone Court within the Highland Pines Subdivision submitted by Apple Landscaping.

**Proposed Project:**

The request is being made by the property owner to allow landscape lighting at the petitioners' residence. The property is located within the Highland Pines PUD\Subdivision and is situated at the southwest corner of Pine Cone Court and Pine Tree Drive.

Thirty five (35) low voltage (specs attached) lights are proposed to be placed in the landscaping and around an existing patio area proposed to be upgraded on the west side of the residence. As proposed this is a LED illumination system. Eleven (11) path lights will be mounted in and around the patio area. These will contain a 3 watt LED light source on a 12' light stem (Alstem 12) with a Model AL100 area light hat. Twenty-three (23) wall/step lights (5 watt output ) are also proposed to be installed throughout the patio area . One (1) spot light will be utilized to uplight trees in the patio (model & specs not listed) . A site plan is attached for the review of the AC.

**ZONING REGULATIONS:**

Lighting within the Residential Districts is identified as "Class 3" lighting and as such must meet "tests" identified below and bolded for this lighting class. As proposed this request is probably best identified as "Landscape Lighting" defined as follows;

**"LANDSCAPE LIGHTING: Lighting which is located on the grounds and is primarily designed to illuminate or silhouette vegetation, a lawn or garden. This type of lighting may incidentally illuminate a portion of a building."**

**5-9-9 EXTERIOR LIGHTING**

- (A) **Purpose.** The village comprehensive plan refers to certain characteristics of the village which are cherished by its residents.

*The village of Long Grove is unique. . . Long Grove has managed to retain much of the pristine rural charm,. This has not occurred by coincidence but through thoughtful design.*

One of the primary thrusts of the planning efforts of the village has been to achieve a consistent and pleasing quality of life.

Excessive amounts of artificial light intruding upon adjacent properties and visible to the public constitutes light pollution which tends to destroy the natural rural charm the village has strived to perpetuate. Light pollution is aesthetically destructive. It is inconsistent with the rural night and diminishes the economic value of properties which

are subjected to light pollution. Our village residents moved here and purchased property here to enjoy the rural charm of the village, not to be subjected to needless and aesthetically harmful light pollution. The purpose of this chapter is to eliminate or reduce as much as possible light pollution.

It is the intent of this section 5-9-9 to provide standards for controlled and moderate forms of illumination systems that promote safety and are consistent with the planning efforts of the village.

(B) Classes of Lighting Areas.

1. Class 1. Class 1 consists of the B1 zoning district.
2. Class 2. Class 2 consists of all other nonresidential zoned areas not included in Class 1. This classification also includes all property utilized for agricultural, educational or religious purposes. This classification does not include public or private roads, but does include driveways to areas that are otherwise within this classification.
3. Class 3. **Class 3 consists of residential areas of the village, including R1, R2, R3 and all residential portions of properties in a planned unit development.**
4. Class 4. Class 4 consists of all public and private roads, excluding driveways.

(C) General Regulations. The regulations and standards set forth in Table 5-14-A below shall regulate and govern the use of, modification of, construction of, installation of, or the erection of any illumination system for the purpose of lighting external areas, including, but not limited to, signs, parking areas, buildings, landscaping, walkways, porches, driveways, and public or private roads. Each illumination system must meet tests 1 through 6, inclusive of Table 5-14-A, before a permit can issue. Table 5-14-A indicates non-permitted uses (NP symbol), permitted uses (P symbol), or uses subject to review and approval of the architectural board (AB symbol).

**TABLE 5-14-A LIGHTING SYSTEM TESTS**

Each lighting system must be permitted or have received approval in each test group (1-6) before a permit will be issued.

SYMBOLS

P = Permitted NP = Not Permitted AB = Architectural Board Approval Required

**TEST 1**

<u>Usages Permitted</u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>	<u>Class 4</u>
Commercial building lighting	AB	AB	AB	--
Landscape lighting	AB	AB	<b>AB</b>	--
Private sign illumination	NP	AB	NP	--
Roadsign lighting	AB	AB	NP	--
Municipal parking lot	P	--	--	--
Commercial parking lot	AB	AB	--	--

Residential yard/grounds lighting	AB	--	P	--
Driveway lighting	AB	AB	P	--
Holiday lighting	P	P	P	--
Intersection or street lighting	AB	AB	AB	AB
Exterior lighting of dwelling	AB	--	P	--
Security lighting	AB	AB	AB	--

### TEST 2

Light Sources Permitted	Class 1	Class 2	Class 3	Class 4
Natural gas	P	P	P	P
Incandescent (white or clear)	P	P	P	P
Halogen	AB	AB	AB	AB
Mercury vapor	NP	P	NP	P
Sodium vapor	NP	NP	NP	NP
Incandescent (multi-colored Christmas or temporary use)	P	P	P	--
Incandescent (malibu type)	NP	NP	P	--
Other	AB	AB	<b>AB</b>	AB

### TEST 3

Fixture Styles Permitted	Class 1	Class 2	<b>Class 3</b>	Class 4
Fixtures depicting 19th century styles	P	P	<b>P</b>	P
Other	NP	AB	<b>P</b>	P

### TEST 4

Fixture Height	Class 1	Class 2	<b>Class 3</b>	Class 4
Fixture 15 feet or less	P	P	<b>P</b>	P
Fixture higher than 15 feet	AB	AB	NP	P

### TEST 5

<u>Brightness</u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>	<u>Class 4</u>
Source watts over 200	NP	NP	NP	AB
<b>Source watts under 200</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>

### TEST 6

<u>Illumination Of Adjacent Lot</u>	<u>Class 1</u>	<u>Class 2</u>	<u>Class 3</u>	<u>Class 4</u>
External lights which glare into traffic and/or adjacent neighboring properties	NP	NP	<b>NP</b>	--
Reflected light from a dwelling, commercial structure, or sign which is greater than 2 foot-lamberts when measured at the structure. Also applies to structure inadvertently lighted	NP	NP	<b>NP</b>	--
Direct light greater than 2 foot-lamberts from any source reflected off a white surface which is 12 feet from source	NP	NP	<b>NP</b>	

### ARCHITECTURAL COMMISSION DECISION:

The AC should review the request for lighting against the "Test Criteria" listed above. A light source LED has been identified and should be approved as an "Other" light source by the AC. Aside from this the other lighting criteria has been met. "Spillage" of light on adjacent properties should not be an issue as lighting will be low to the ground and largely contained within the 18" to 24" retaining/seat wall within the patio area. Fixtures appear "dark sky" compliant based on photo metrics and specs submitted with the fixtures. A landscape barrier exists between the proposed lighting and nearest structure to the west.

Any variations considered to avoid an undue hardship upon the petitioner/owner, should indicate that the illumination system, with the variance, shall not have any adverse effect upon adjacent properties, as well as the illumination system with the variation shall not result in light pollution subject to public view.

# Lake County, Illinois



**LakeCounty**  
Geographic Information System

Lake County Department  
of Information Technology  
18 N County St  
Waukegan IL 60085  
(847) 377-2373

Map Printed on 05/13/2014



-  Forest Preserves
-  Lake County Border
-  Streams
-  Tax Parcels
-  Trails

## Disclaimer

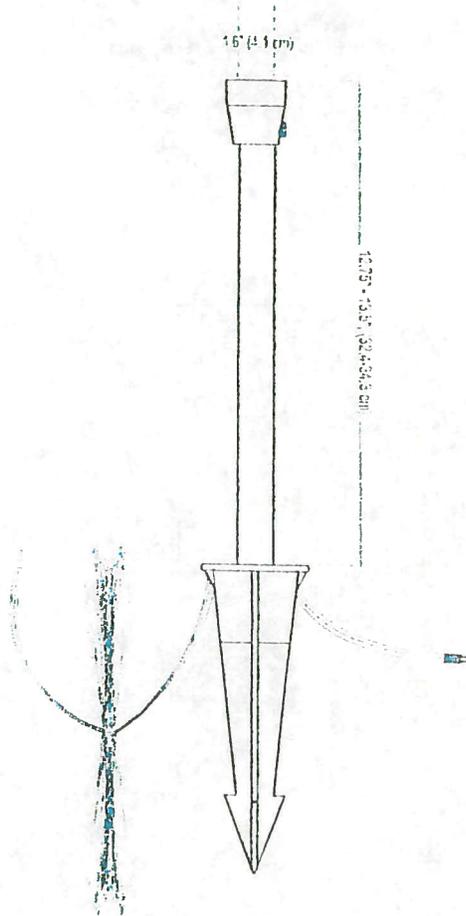
The selected soil feature layer may not occur anywhere in the current map extent. A Registered Land Surveyor should be consulted to determine the precise location of property boundaries on the ground. This map does not constitute a regulatory determination and is not a base for engineering design. This map is intended to be viewed and printed in color.

# ALLIANCE

## Specification Sheet

### Model: ALSTEM12 (12" Area Light Stem)

Fixture Height: 12.75" - 13.5", (32.4-34.3 cm)  
 Stem Diameter: 1.6" (4.1 cm)



Notes:

Project: VAM LIGHT

Type:

#### Specifications and Features

**Body:** Brass stem, aged brass finish

**Collar:** Brass, adjustable with thumb screw

**Socket:** Spring loaded ceramic bi-pin socket with dual contact

**Wire:** Industry First, double wire lead pre-connected to the fixture, 16 awg (UL listed), brown  
 -25 foot wire lead, pre-stripped for easy wire connection  
 -18 inch wire lead, LED connection ready

**Stake:** Plastic ground stake, attached to the fixture (8.5 in; 21.6 cm length)

**Warranty:** Lifetime warranty on fixture housing

**Certification:** Complies with the requirements of UL-1838 and CAN/CSA-C22.2 No. 250.7. Identified with the ETL and cETL Listed Mark



#### Lamp Options

Model #	Base Type	Wattage	Lumen Output
LBIPIN-LED-3W	BIPIN/G4	3w	150lm
LXELOGEN-20 (Halogen)	BIPIN/G4	20w	150lm

LED Ordering Guide: Model-LED

Example: ALSTEM12-LED

#### Accessories Available:

Mounting Accessories:

RMB - Round Mounting Base

# ALLIANCE

## Specification Sheet

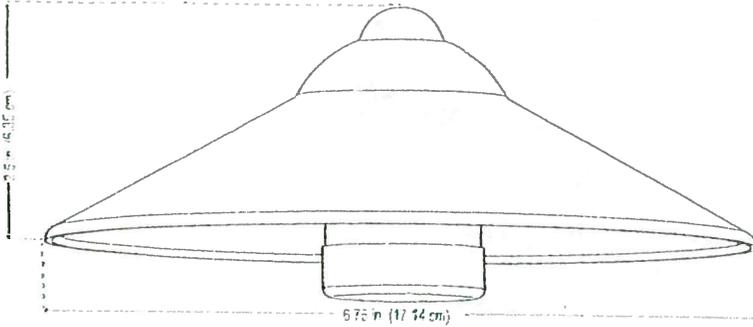
PATH LIGHT

Project:

Type:

### Model: AL100 (Area Light Hat)

Diameter: 6.75 in. (17.14 cm)  
 Height: 2.5 in. (6.35 cm)  
 Lens Height: 2 in. (5.08 cm)  
 Lens Diameter: 1.5 in. (3.81 cm)



**Specifications and Features:**

**Body:** Brass area light hat, aged brass finish

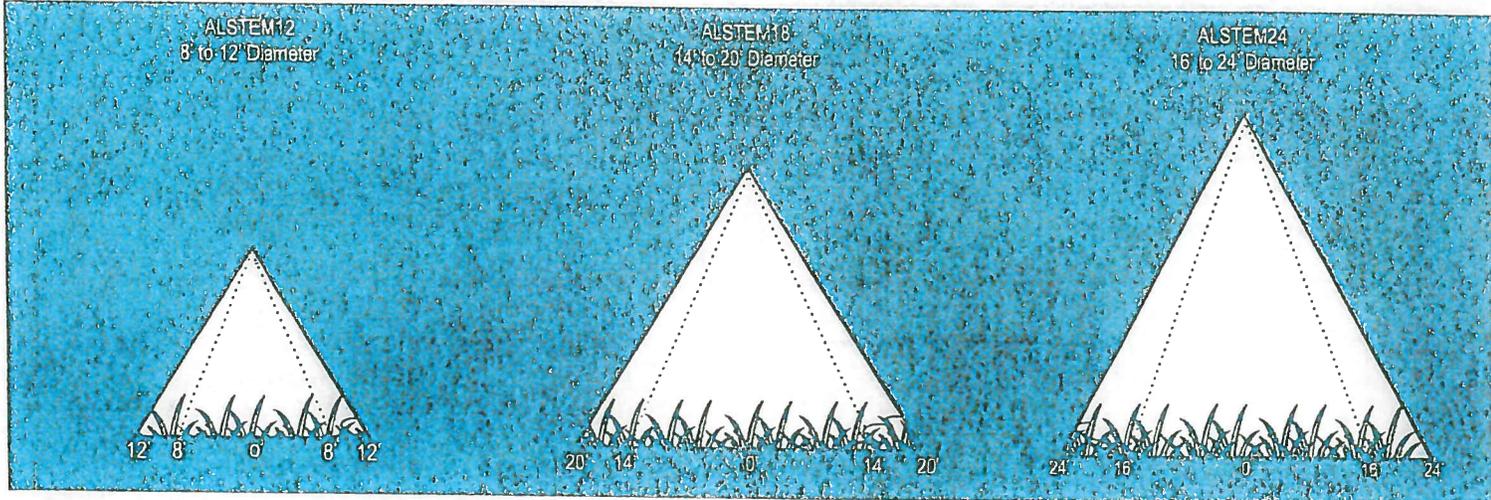
**Lens:** Polycarbonate frosted lens with rubber gaskets

**Warranty:** Lifetime warranty

**Area Light Stems (Sold Separately):**

Model #	Height	Lamp Base	Lamp Options
ALSTEM12	12"	Bipin/G4	<ul style="list-style-type: none"> <li>LBIPIN-LED-3W 3w - 150 lumen LED</li> <li>LXELOGEN-20W 20w xelogen</li> </ul>
ALSTEM18	18"		
ALSTEM24	24"		
ALSTEM30	60"		
ALSTEMADJ	18-29"		

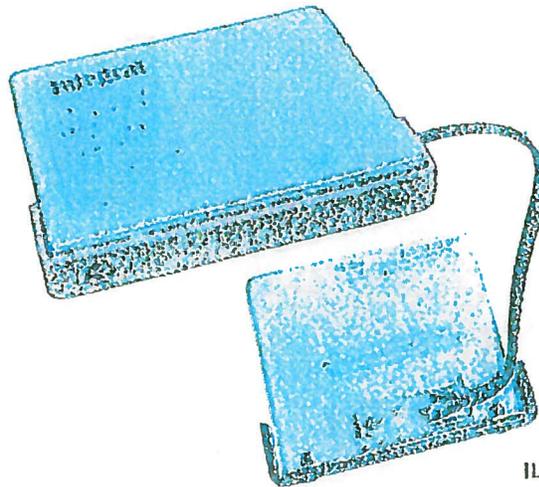
**Photometrics:**



Notes:

# Model IL4.xxx.500

STEP LIGHT



IL4.400.500 Mud Finish Shown

## construction

**Model IL4.xxx.500** 4" width x 1/2" height x 7/8" depth

- Faceplates heavy duty and field replaceable
  - Aluminum .090 thick alloy 5052T
  - Solid Copper or Brass .090 thick
  - Stainless Steel 18g alloy 304
- 6-32 slotted brass or stainless steel screws
- Self leveling insert is Heavy 18 gauge 304 Stainless Steel
- Holes threaded to insert plate

Tested and listed by



## electrical

**Model IL4.xxx.500**

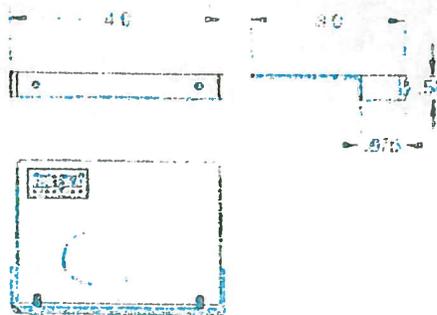
Single array - 16 chips

5 watt output

1.2 watt energy consumption

- LED available in 2700K, 3000K, or 4200K
- LED 70 CRI / 60LM/w
- Multi Circuit Parallel LED structure
- Field replaceable LED module
- Nylon Lens with integrated heat sink
- Circuitry encapsulated for moisture resistance
- 72" long 18/2 leads for connection
- Voltage requirement min 8.0v AC / max 12.5v AC
- Estimated life of 40,000 hours at 11.5v AC input
- Magnetic and electronic transformer compatible

## dimensions

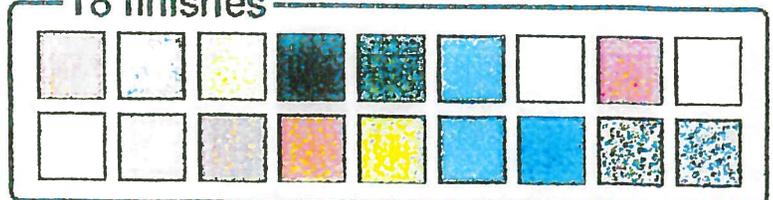


### Available LED Options

- 2700K incandescent look and feel
- 3000K our original white
- 4200K cool white



## 18 finishes



51 North Elm Street, Wernersville, PA 19565 Phone: 800.861.1364 Fax: 800.388.2898 [www.integral-lighting.com](http://www.integral-lighting.com)

dimensions are approximate

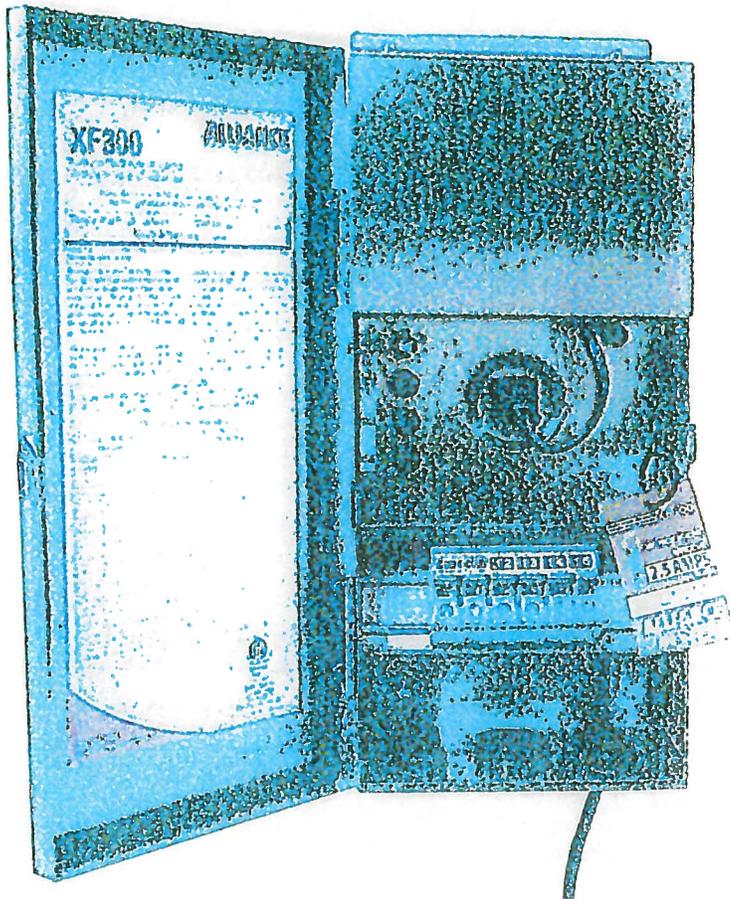
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# ALLIANCE

## Specification Sheet

### Model: XF300 (300 Watt Transformer)

Description: Low voltage power supply suitable for indoor or outdoor use



Project: \_\_\_\_\_  
Type: \_\_\_\_\_

#### Specifications

<b>Max Amperage (Load):</b>	2.5 amps
<b>Max Input (Primary Voltage):</b>	120 volts
<b>Secondary Voltage:</b>	12 volts*
<b>Available Voltage Taps:</b>	12,13,14,15
<b>Exterior Construction:</b>	Stainless Steel
<b>Warranty:</b>	Lifetime Warranty
<b>Certification:</b>	UL Listed to U.S. and Canadian safety standards for low voltage landscape lighting (UL 2108)



Intertek

\*You may use any combination of output terminal lugs (12-15 volt). However you may not exceed 300 watts on any single terminal lug.

#### Features:

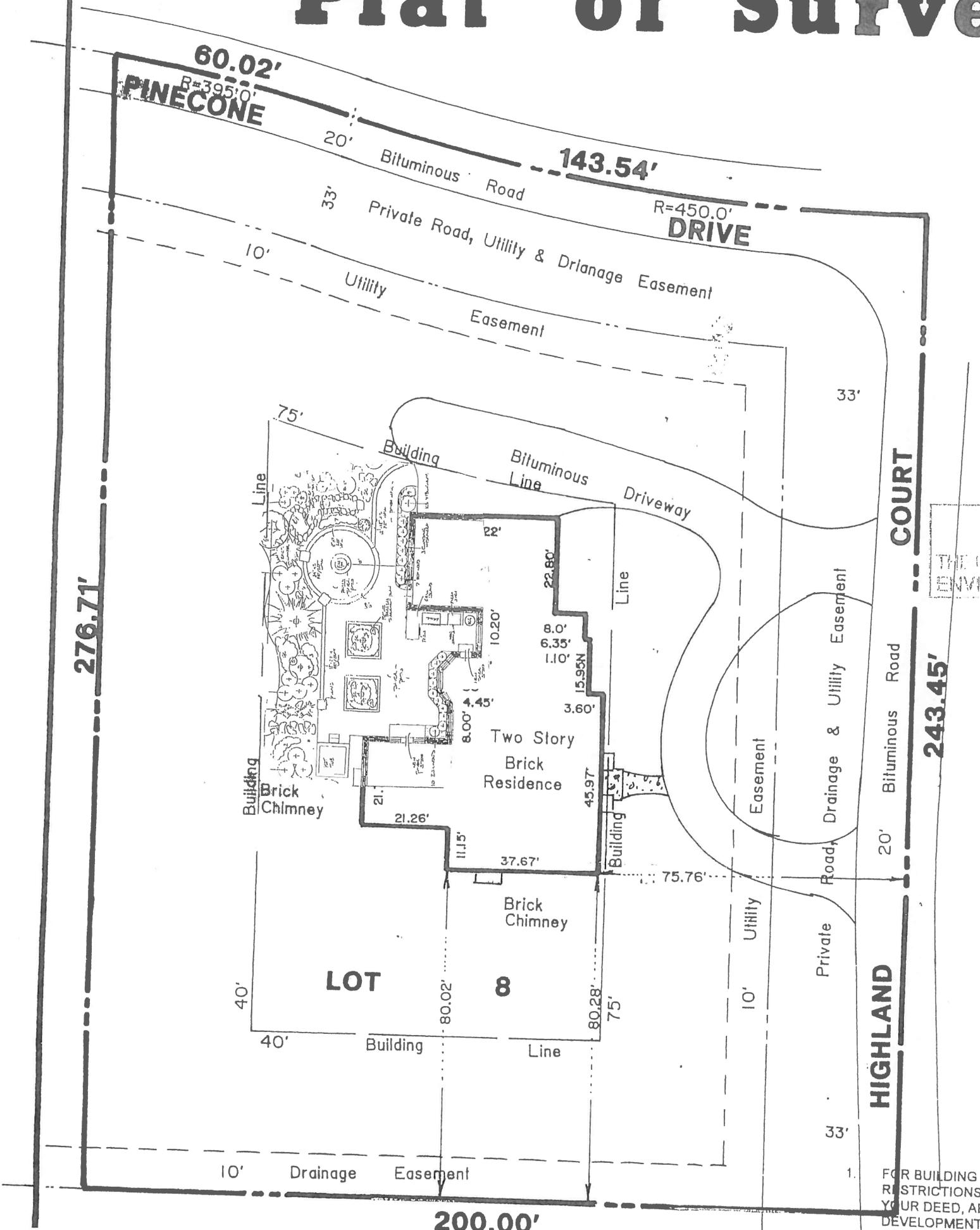
- Fully potted, insulated, single core transformer
- In-line surge protection
- Easy on/off, secondary breaker switches on each common tap
- Stainless steel cabinet with removable and lockable latched door
- Multiple voltage taps ranging from 12 to 15 volts
- Two common lug terminals
- Tilted lug bar where the secondary lugs will be easier to access and install. The adjusted bar eliminates the blind spots that occur when trying to install low voltage wire to the terminal lug.
- Relay installed to bring the amperage delivered to the timer and photocell down to a lower level thus improving the longevity of life to those accessories and eliminating failure
- Amp loop that provides contractors with one easy point of reference to check the primary amperage on the transformer
- Snap-In photocell ready receptacles
- Removable bottom panel allowing for easy access to lug terminal, more room for wiring, and the ability to attach conduits through the five knockouts.

#### Accessories Available:

- Transformer Accessories
- TIMER - Mechanical Timer
- DGTimer - Digital Timer
- PC - Photocell

Notes:

# Plat of Survey

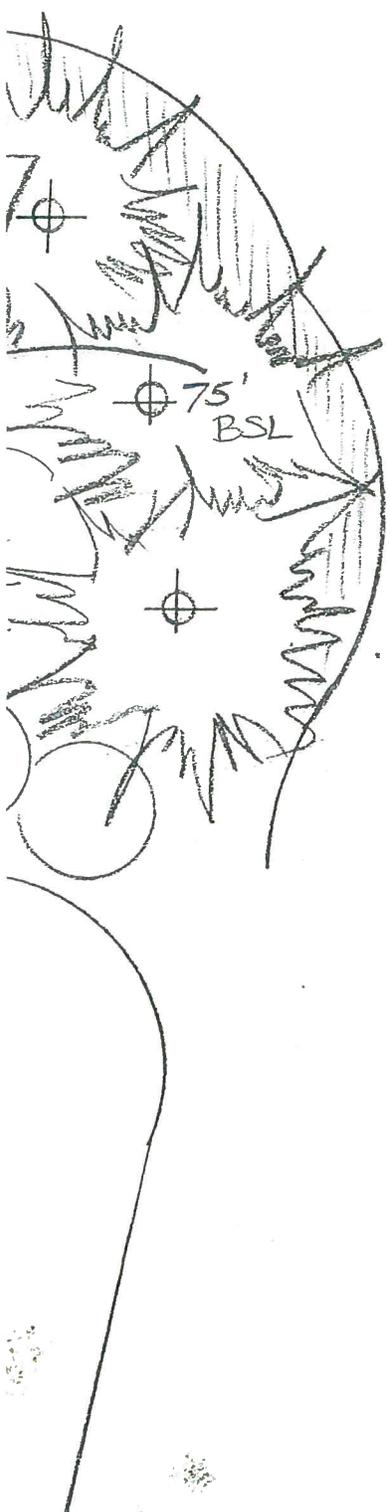


FOR BUILDING RESTRICTIONS YOUR DEED, AT DEVELOPMENT

3	JUNIPERUS HORIZONTALIS BLUE CHIP	BLUE CHIP JUNIPER
6	ROSA 'KNOCKOUT'	SHRUB ROSE
1	VIBURNUM 'KOREANSPICE'	KOREANSPICE VIBUR
1	MALUS 'LOUISA'	LOUISA CRAB

**PERENNIAL SCHEDULE**

#	BOTANICAL NAME	COMMON NAME
1	PANICUM 'NORTHWIND'	SWITCH GRASS
2	PANICUM 'NORTHWIND'	SWITCH GRASS
3	HEUCHERA 'GEORGIA PEACH'	CORAL BELLS
4	ANNUAL FLOWERS	ANNUAL FLOWERS
5	ANNUAL FLOWERS	ANNUAL FLOWERS
6	HEUCHERA 'GEORGIA PEACH'	CORAL BELLS
7	ANNUAL FLOWERS	ANNUAL FLOWERS
8	MISCANTHUS 'LITTLE ZEBRA'	LITTLE ZEBRA GRASS
9	HEAUCHERA 'PALACE PURPLE'	CORAL BELLS
GC	PACHYSANDRA	PACHYSANDRA



**LIGHTING KEY:**

- PATH LIGHT
- SPOT LIGHT
- WALL/STEP LIGHT

# LORENZO RESIDENCE

6211 PINE CONE CT  
LONG GROVE, IL 60047

APRIL 8, 2014  
BY: *msg*

**APPLE LANDSCAPING, LTD.**  
PROFESSIONAL  
LANDSCAPING  
SERVICES

