





## GENERAL PLANTING NOTES

(THE LANDSCAPE ARCHITECT HAS BEEN PAID TO MEET WITH THE CONTRACTORS TO REVIEW THE PLANS, ANSWER ANY QUESTIONS, AND REVIEW WORK TO ASSURE COMPLIANCE WITH THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL THE LANDSCAPE ARCHITECT AND SET AN APPOINTMENT FOR SUCH MEETINGS. ALLOW AT LEAST A 24 HOUR NOTICE FOR SUCH MEETINGS.)

1. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES AS DETERMINED FROM THE PLANS, PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL CONTAINER GROWN TREES, SHRUBS AND VINES, INCLUDING SODDED TURF AND FLATTED GROUND COVERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PLANTING OF PLANT MATERIALS; THE SPECIFIED GUARANTEE OF ALL PLANT MATERIALS; THE STAKING AND GUYING OF TREES, AND THE CONTINUOUS PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE. THE SPECIFIC GUARANTEE FOR ALL PLANT MATERIAL 15 GALLON AND SMALLER SHALL BE FOR 90 DAYS AFTER INSTALLATION. FOR ALL BOX TREES AND ALL PALMS, THE GUARANTEE SHALL BE FOR ONE YEAR.
4. GROUND COVER PLANTING SHALL BE CONTINUOUS UNDER ALL TREES AND SHRUB MASSES AS SHOWN ON PLAN.
5. ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND / OR OWNER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL SPOT ALL MATERIAL PER THE PLAN, AND CALL THE LANDSCAPE ARCHITECT TO REVIEW THE PLACEMENT PRIOR TO PLANTING. GIVE THE LANDSCAPE ARCHITECT AT LEAST 24 HOURS NOTICE.
6. THE LANDSCAPE ARCHITECT SHALL TAG ALL SPECIMEN TREES 30 INCH BOX AND LARGER, AND SHALL POSITION THEM AT THE SITE PRIOR TO PLANTING. THE LOCATION OF TREES AS SHOWN ON THE PLANS IS FOR GENERAL INFORMATION ONLY. THE LANDSCAPE ARCHITECT SHALL BE GIVEN 24 HOURS NOTICE WHEN POSITIONING AT THE SITE IS NEEDED OR THE CONTRACTOR IS READY TO HAVE THE TREES TAGGED AT THE NURSERY. THE LANDSCAPE ARCHITECT MAY CHOOSE AT HIS / HER DISCRETION, TO HAVE THE CONTRACTOR TAG AND SPOT TREES WITH OUT LANDSCAPE ARCHITECT PARTICIPATION.
7. ALL VINES SHALL BE INSTALLED WITH THE NURSERY STAKES REMOVED AND VINE RUNNERS SHALL BE ESPALIERED TO THE ADJACENT WALL OR FENCE. THIS SHALL OCCUR TWO WEEKS AFTER PLANTING.
8. ALL SOIL AMENDING SHALL BE AS PER THE SOIL AGRONOMY REPORT (SAMPLES FOR SUBMITTAL TO THE LAB SHALL BE TAKEN UPON COMPLETION OF ROUGH GRADING) THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT TO OBTAIN THE SOIL TEST KIT, COLLECT AND MAIL THE SAMPLES, PAY THE FEE, AND RETURN THE RESULTS TO THE LANDSCAPE ARCHITECT FOR HIS REVIEW AND APPROVAL PRIOR TO PERFORMING SOIL PREPARATION.
9. THE SOIL AMENDMENTS SPECIFIED BELOW ARE FOR BIDDING PURPOSES ONLY. THE ACTUAL AMENDMENTS SHALL CONFORM TO THE SOIL AGRONOMY REPORT AS PER NOTE #8.
10. THE SOIL FOR ALL LAWN AND SHRUB AREAS SHALL BE AMENDED AS FOLLOWS: (SEE NOTE 9.) AMOUNT PER 1,000 SQUARE FEET, 6 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT DERIVED FROM REDWOOD SAWDUST, FOR SAWDUST OR FINELY GROUNDED BARK 15 LBS. 12-12-12 COMMERCIAL FERTILIZER THE AMENDMENT SHALL BE UNIFORMLY BROADCASTED AND KEPT THOROUGHLY INCORPORATED BY MEANS OF A ROTOTILLER OR EQUAL TO A DEPTH OF SIX INCHES.
11. THE PLANTING PITS FOR SHRUBS AND TREES SHALL BE PER THE PLANTING DETAILS. THE BACKFILL MIX FOR USE AROUND THE ROOTBALL OF ALL TREES AND SHRUBS SHALL CONSIST OF THE FOLLOWING FORMULA:
  - 6 PARTS BY VOLUME ON SITE SOIL.
  - 4 PARTS BY VOLUME AMENDMENT PER SOIL AGRONOMY REPORT. (SEE #8)
  - 1 LB./CU. YD. OF MIX 12-12-12 COMMERCIAL FERTILIZER.
  - 2 LBS./CU. YD. OF MIX IRON SULFATE.
  - 10 LBS./CU. YD. OF MIX AGRICULTURAL GYPSUM.
12. REFER TO SHEET L4.0, DETAIL "8" FOR STAKING TREES AND DETAIL "9" FOR PLANTING SHRUBS.
13. FERTILIZER TABLETS SHALL BE AGIFORM 21 GRAM TABLETS (21-10-5) QUANTITIES AS FOLLOWS:
 

1 GALLON = 1 TABLET	15 GALLON = 4 TABLET
5 GALLON = 2 TABLET	1 PER 4" OF BOX SIZE.

 PLACE TABLETS AT HALF THE DEPTH OF THE ROOTBALL.
14. BACKFILL FOR FERNS, AZALEAS AND GARDENIAS: THE BACKFILL MIX FOR AROUND THE ROOTBALL SHALL CONSIST OF THE FOLLOWING:
  - 1/3 PARTS NURSERY SAND #28
  - 1/3 PARTS CANADIAN PEAT MOSS
  - 1/3 PARTS LOAMITE OR FOREST HUMUS.
15. THIRTY (30) DAYS AFTER INSTALLATION, ALL LANDSCAPE AREAS SHALL BE FERTILIZED WITH BEST FERTILIZER COMPANY 16-6-8 OR APPROVED EQUAL, APPLIED AT THE RATE OF SIX POUNDS (6 LBS.) PER 1,000 SQUARE FEET. FERTILIZER APPLICATION SHALL BE CONTINUED THEREAFTER AT MONTHLY INTERVALS.
16. HE CONTRACTOR SHALL ALERT THE LANDSCAPE ARCHITECT TO ANY DISCREPANCIES BEFORE BEGINNING WORK.
17. ALL ESPALIERS SHALL BE TRELLIS GROWN. REMOVE FROM TRELLISES AND ATTACH TO FENCE OR WALL.
18. FINE PRUNE ALL SPECIMEN TREES AFTER PLANTING.
19. UPON COMPLETION OF WORK FOR THE DAY, EACH AND EVERY DAY, REMOVE ALL EXTRANEous MATERIAL, DEBRIS, AND TRASH GENERATED BY YOUR WORK AND YOUR LABORERS. THE PROPERTY OWNER HAS THE RIGHT TO CLEAN UP AFTER YOU AND CHARGE YOU FOR THIS SERVICE IF YOU FAIL TO CLEAN UP AFTER YOURSELF. BROOM AND WASH THE AREA CLEAN. UNLESS OTHER ARRANGEMENTS ARE MADE, YOU WILL PROVIDE AND PAY FOR ADEQUATE TOILET FACILITIES FOR YOUR LABORERS.
20. WHEN THE CONTRACTOR HAS COMPLETED THE PLANTING, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT AND SET A TIME TO WALK THROUGH THE PROJECT. THE LANDSCAPE ARCHITECT WILL PREPARE A LETTER OF ACCEPTANCE TO BE SUBMITTED TO THE CLIENT LISTING ANY CORRECTIONS TO BE MADE, AND RECOMMENDING FINAL PAYMENT BE MADE TO THE CONTRACTOR AFTER CORRECTIONS ARE COMPLETE.
21. UNLESS THE CONTRACT WITH THE CLIENT SPECIFIES OTHERWISE, THE CONTRACTOR SHALL MAINTAIN THE COMPLETED PROJECT FOR A PERIOD OF 90 DAYS AFTER FINAL ACCEPTANCE. MAINTENANCE INCLUDES MOWING AND EDGING LAWNS, WEEDING, FERTILIZING, AND CLEAN UP. DO NOT USE HEDGE CLIPPERS TO TRIM SHRUBS UNLESS THE MATERIAL IS SPECIFIED TO BE A CLIPPED HEDGE AS STATED ON THE PLANS.
22. UNLESS THE CONTRACT YOU HAVE WITH THE OWNER SIGN SPECIFIES OTHERWISE YOU WILL BE HELD TO ALL.

CITY OF LOS ANGELES  
ADDITIONAL PLANTING NOTES

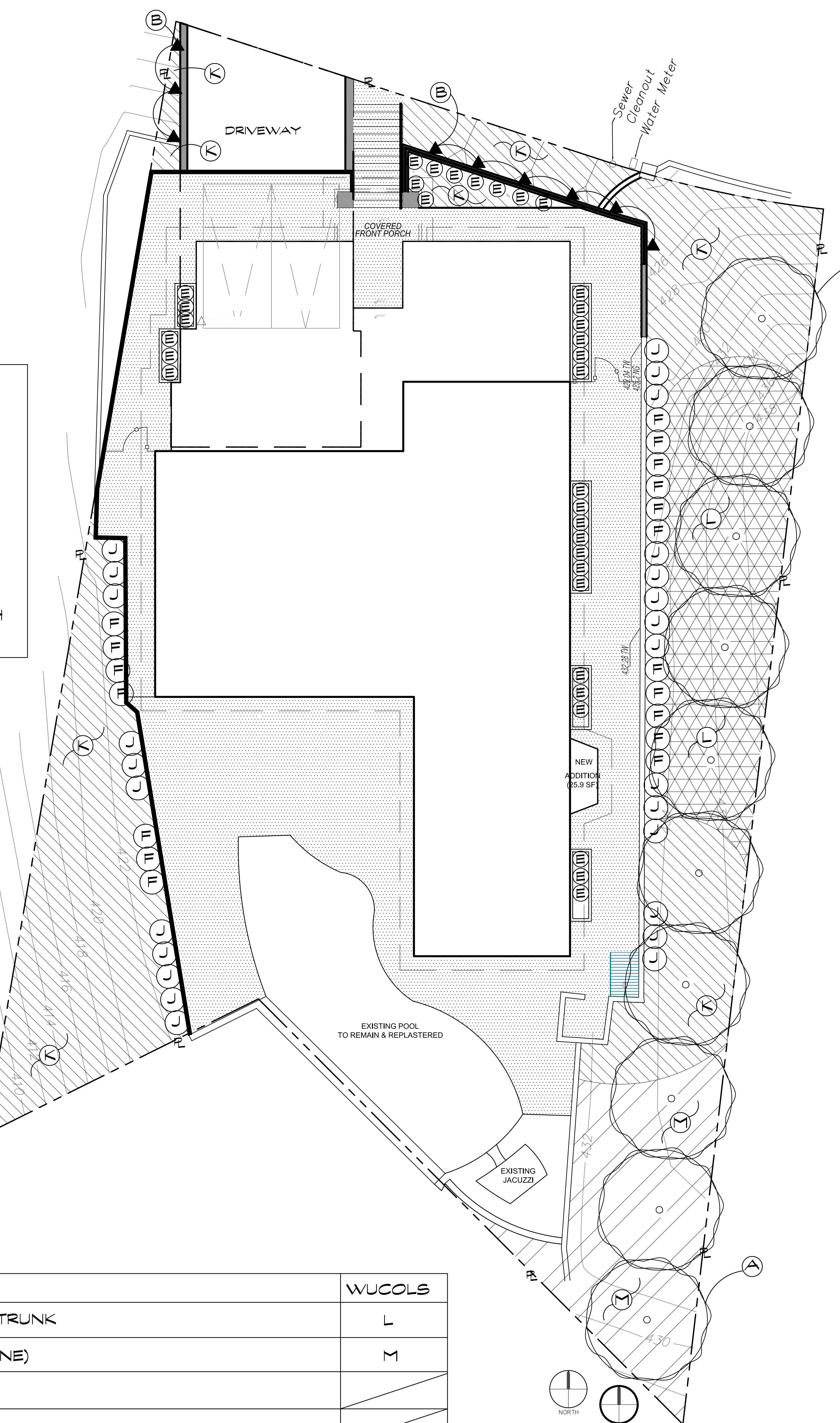
RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES.

A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUND COVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.

FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED AT A DEPTH OF SIX INCHES INTO THE SOIL.

## VINE NOTE

IT IS THE DESIGN INTENT THAT ALL RETAINING WALLS WILL EVENTUALLY BE COVERED WITH SELF-CLINGING VINES. SOME VINES WILL BE PLANTED AT THE TOP OF RETAINING WALLS, TO HANG OVER AND EVENTUALLY CLING TO AND COVER THE WALL FROM THE TOP DOWN.



## PLANTING LEGEND

SYM.	SIZE	BOTANIC / COMMON NAME	WUCOLS
A	24B	ARBITUS UNEDO / STRAWBERRY TREE - MULTI TRUNK	L
▲ B	1G	FICUS PUMILA / CREEPING FIG VINE (STAKED VINE)	M
C	(OMIT)		
D	1G	(OMIT)	
E	5G	HESPERALOE 'BRAKELIGHTS' / DWARF RED YUCCA	VL
F	15G	AGAVE ATTENUATA / FOXTAIL AGAVE	L
G	(OMIT)		
H	(OMIT)		
J	15G	CALISTEMON V. 'LITTLE JOHN' / DWARF BOTTLEBRUSH	L
K	1G	ROSMARINUS PROSTRATUS / TRAILING ROSEMARY @ 3' O.C. TRIANG. SPACING	L
L	1G	MYOPORUM PARVIFOLIUM / N.C.N. @ 3' O.C. TRIANG. SPACING	L
M	1G	BOUGAINVILLEA RASPBERRY ICE / BOUGAINVILLEA @ 3' O.C. TRIANG. SPACING	L

KNIGHT DEVELOPMENT GROUP  
1124 LAS PULGAS ROAD  
PACIFIC PALISADES, CA 90272

Project Name

Sheet Title  
PLANTING PLAN

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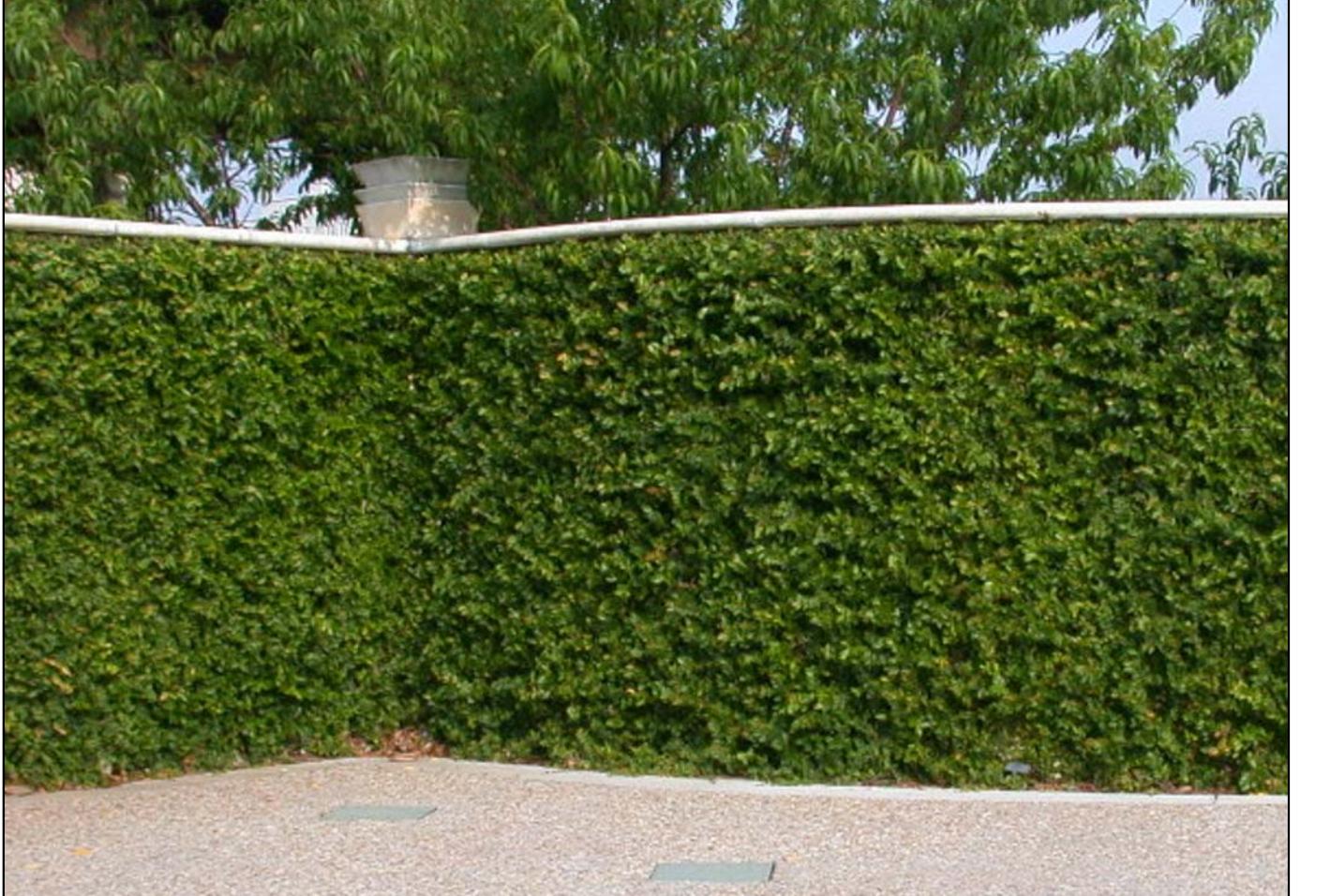
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Date: 09/5/18  
 Project No. 0596  
 Drawn By: BL  
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A ARBUTUS UNEDO / STRAWBERRY TREE



B FICUS PUMILA / CREEPING FIG



E HESPERALOE P. / DWARF RED YUCCA



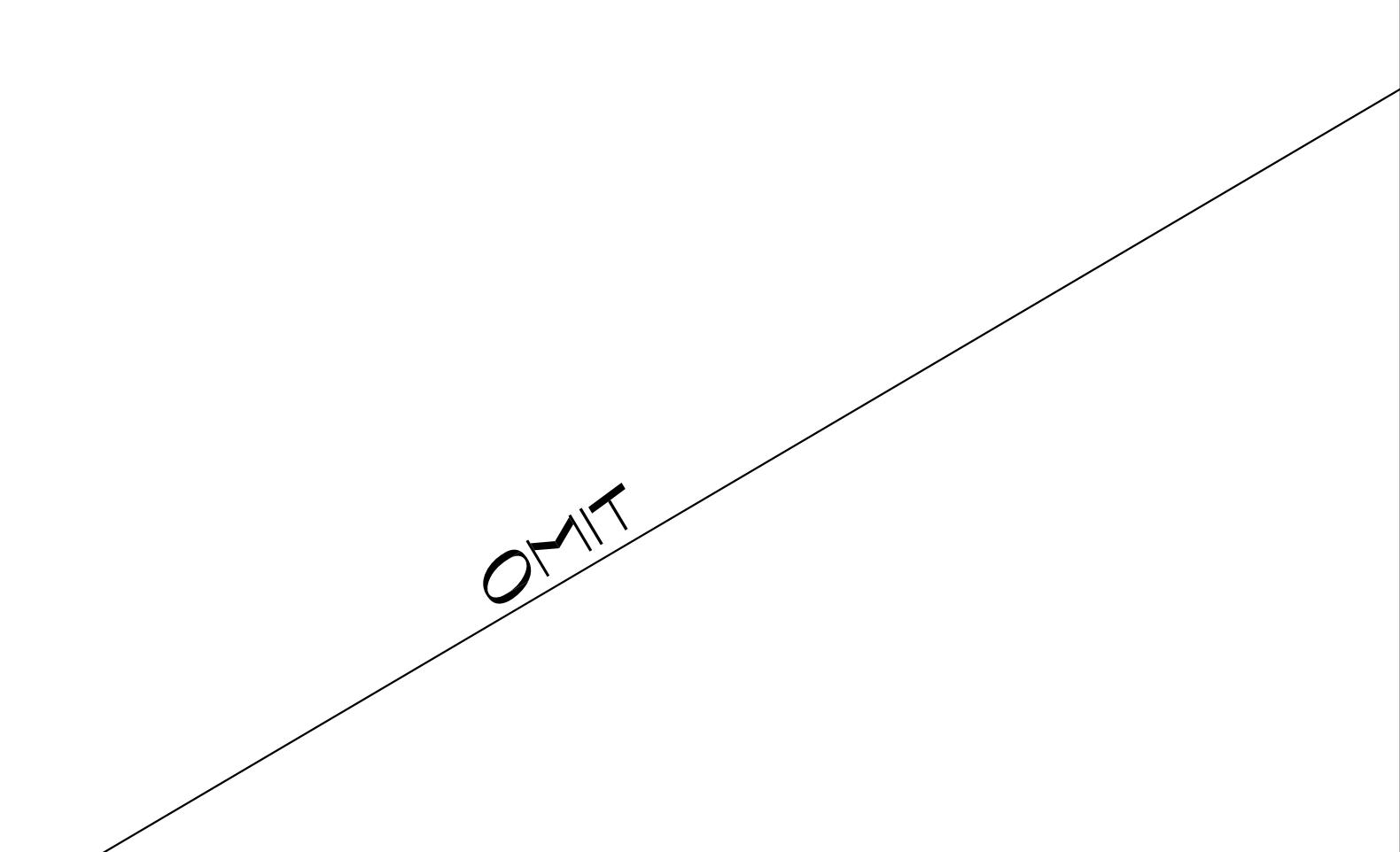
F AGAVE ATTENUATA / FOXTAIL AGAVE



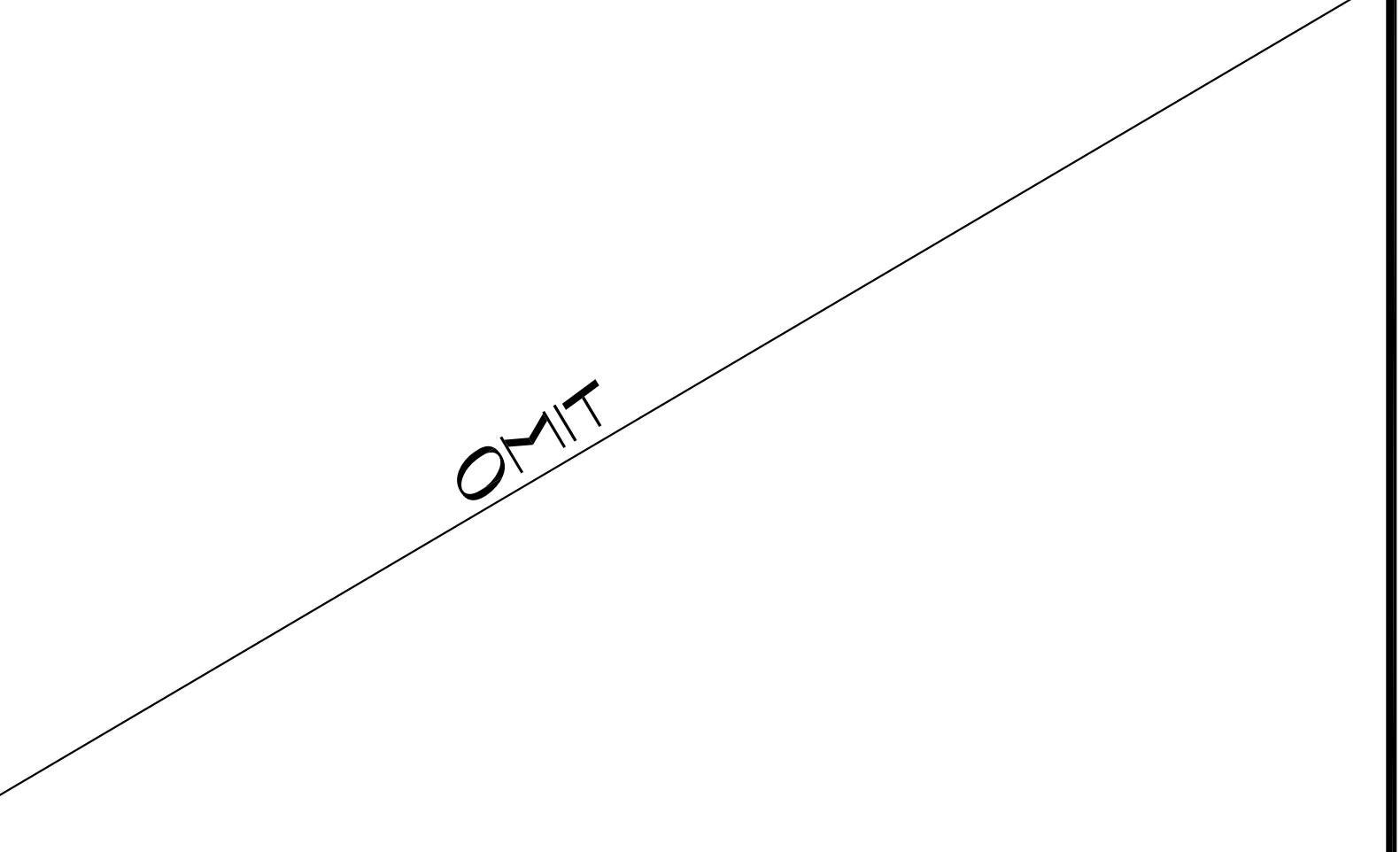
J CALLISTEMON 'LITTLE JOHN'



K ROSMARINUS P. / ROSEMARY



L MYOPORUM PARVIFOLIUM



M BOUGAINVILLEA HAWAII

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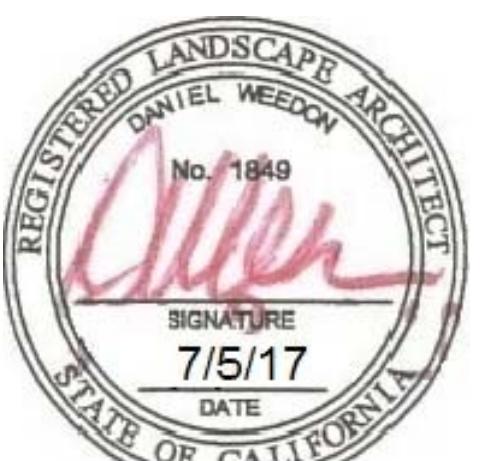
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Project Name

**KNIGHT DEVELOPMENT GROUP**

1124 LAS PULGAS ROAD  
PACIFIC PALISADES, CA 90272

Sheet Title

**PLANT IMAGES**

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09/5/18

Project No.:

0596

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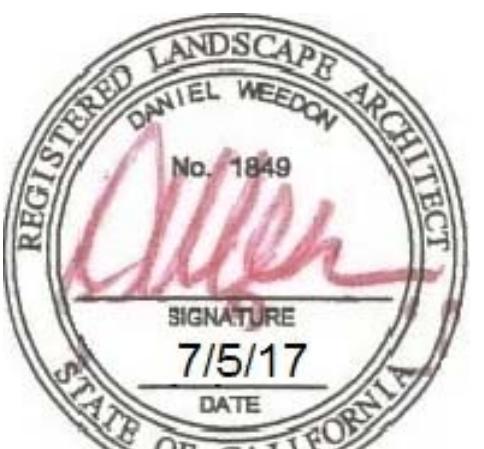
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**L 1.2**

**KNIGHT DEV. GROUP**

PROJECT # 596 DRAWER # X



Project Name

## KNIGHT DEVELOPMENT GROUP

1124 LAS PULGAS ROAD  
PACIFIC PALISADES, CA 90272

Sheet Title

## IRRIGATION PLAN

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Revisions

Date/Description

Sheet No.

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KNIGHT DEV. GROUP

PROJECT # 596 DRAWER # X

ESP-SMTe Controller  
U.S. Environmental Protection Agency WaterSense Approved

The 22-zone Rain Bird® ESP-SMTe is the first controller from a full-line irrigation manufacturer to earn the Environmental Protection Agency (EPA) WaterSense label.

The WaterSense label certifies that the ESP-SMTe has passed the EPA's rigorous testing, and confirms that the controller is at least 20 percent more efficient than other products, without sacrificing performance.

## How does the ESP-SMTe conserve water?

The ESP-SMTe leverages technology used by top golf courses for decades, and integrates it into an easy-to-use residential/light-commercial controller. Just like on the golf course, your controller will only water when necessary and will only water the amount that the landscape requires, which means no water wasting.

• **On-site rainfall data** – The ESP-SMTe collects rainfall amounts from your property and uses this information to recalculate run times for each irrigation zone.

• **Historical weather data** – The internal memory of the ESP-SMTe contains over eight years of historical weather data. This data, along with the on-site rainfall and temperature information, is used to adjust watering run times on a daily basis.

• **Reduced water run-off** – The ESP-SMTe's Cycle and Soak™ feature allows the controller to take into account soil conditions when it calculates run time. This reduces the amount of water that runs off because the soil can't absorb it.

Want to learn more about saving water with the ESP-SMTe?  
Watch the overview video at [www.rainbird.com/ESP-SMTe](http://www.rainbird.com/ESP-SMTe)



What is EPA WaterSense?

The U.S. Environmental Protection Agency developed a WaterSense program to make it easier for consumers to:

- Recognize water saving products by labeling products that meet water conservation requirements.
- Gain access to new water-saving innovations.
- Understand the value of water efficiency.
- Reduce strain on water resources.



**RAIN BIRD.**

D06660

WEATHER SENSING, SMART  
IRRIGATION CONTROLLER  
(SEE LEGEND FOR FULL SPECIFICATION)

## GENERAL IRRIGATION NOTES

1. ALL MAIN LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAIN LINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES UNDER PAVING.
2. ALL LATERAL LINE PIPING UNDER PAVING SHALL BE PVC SCHEDULE 40 PIPE AND SHALL BE INSTALLED PRIOR TO PAVING OR THROUGH SLEEVES.
3. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED.
4. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER AS PER LOCAL CODES.
5. FINAL LOCATION OF THE BACKFLOW PREVENTER AS PER LOCAL CODES.
6. 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE IRRIGATION CONTRACTOR SHALL MAKE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.
7. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
8. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVERTSPRAY ONTO WALKS, STREETS, WALL, ETC.
9. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. ARE SHOWN WITHIN PAVED AREAS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREAS, APPROVED BY THE LANDSCAPE ARCHITECT, AND OUT OF VIEW.
10. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HERSELF/HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HER/HIS WORK. SHE/HE SHALL COORDINATE THE WORK OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
11. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF 20 PSI AND A MAXIMUM FLOW DEMAND OF 22 GPM PER VALVE. THE IRRIGATION CONTRACTOR SHALL VERIFY STATIC WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ABOVE AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION (POC) TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
12. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED BY THE IRRIGATION DESIGNER. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BRUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
13. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

## GENERAL IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER
[POC]	POINT OF CONNECTION	
[WM]	WATER METER	EXISTING IN PLACE
V1	CONTROL VALVE NUMBER 1/2" GALLONS PER MINUTE	
V2	REMOTE CONTROL VALVE SIZE	
C	AUTOMATIC CONTROLLER RAINBIRD ESP-SMTe & ESPSM4 - 4 STATION	
V3	REMOTE CONTROL VALVES IN SQUARE VALVE BOX	NETAFIM - SEE VALVE SCHEDULE

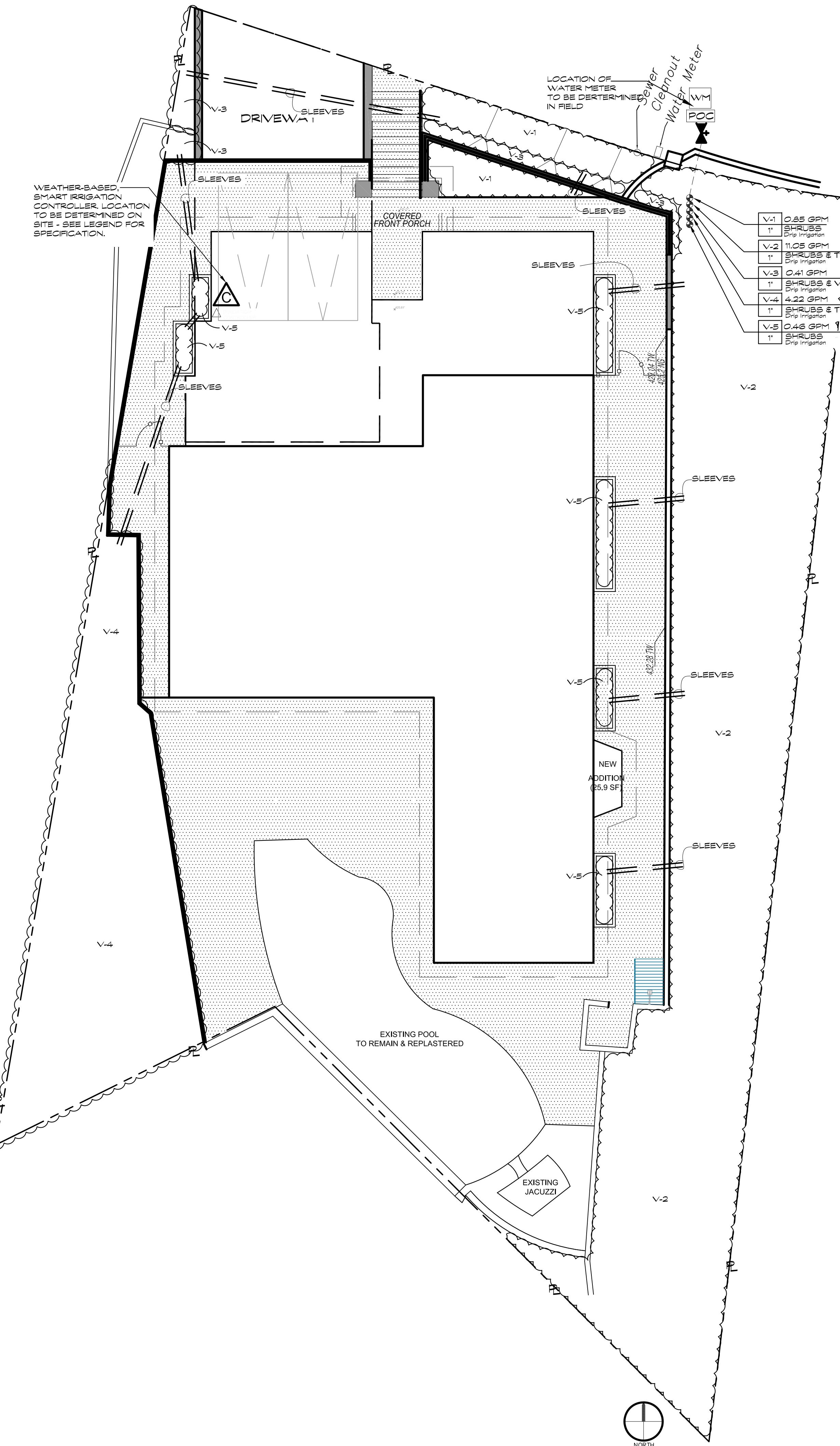
CITY OF LOS ANGELES  
ADDITIONAL IRRIGATION NOTES:

PRESSURE REGULATING DEVICES ARE REQUIRED IF PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED DEVICES.  
MANUAL SHUT OFF VALVES SHALL BE REQUIRED.  
CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.  
OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24" OF ANY NON-PERMEABLE SURFACE.  
A DIAGRAM OF THE IRRIGATION PLAN SHOWING THE HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.  
A CERTIFICATE OF COMPLIANCE SHALL BE FILLED OUT CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.  
AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.  
IF LANDSCAPE AREA IS AT LEAST 500 SQUARE FEET, AND ENTIRE POTABLE WATER SYSTEM IS BEING REPLACED, A DEDICATED LANDSCAPE WATER METER SHALL BE INSTALLED FOR OUTDOOR USE.

## MINIMUM DESIGN CRITERIA

MINIMUM SYSTEM DESIGN CRITERIA IS BASED ON 10 PSI USING 20 GPM.  
STATIC WATER PRESSURE AT THIS LOCATION IS 105 PSI (H/74 L).  
STATIC WATER PRESSURE WAS OBTAINED FROM MATT G. (213) 367-1225  
ON 7/5/16 AT THE LA DEPT OF WATER & POWER WESTERN DISTRICT.

MINIMUM SYSTEM DESIGN CRITERIA IS BASED ON 10 PSI USING 20 GPM.  
STATIC WATER PRESSURE AT THIS LOCATION IS 105 PSI (H/74 L).  
STATIC WATER PRESSURE WAS OBTAINED FROM MATT G. (213) 367-1225  
ON 7/5/16 AT THE LA DEPT OF WATER & POWER WESTERN DISTRICT.



## CERTIFICATE OF DESIGN COMPLIANCE

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS.

*Daniel Weeden*  
DANIEL WEEDEN, LANDSCAPE ARCHITECT, NO. 1849

5/6/17 DATE

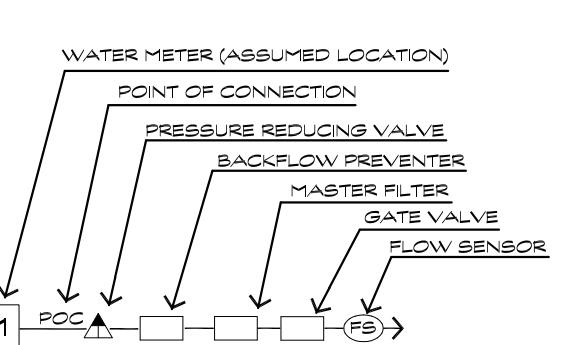
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## IRRIGATION NOTE:

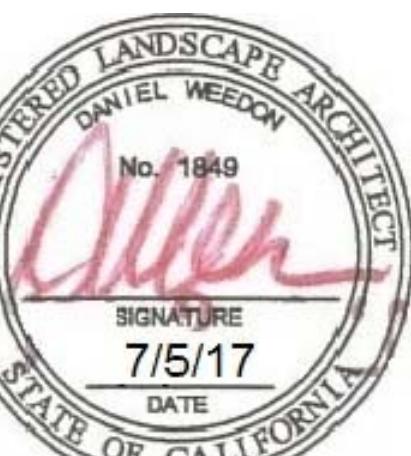
FINAL LOCATION OF ALL IRRIGATION EQUIPMENT INCLUDING REMOTE CONTROL VALVES TO BE DETERMINED BY THE LANDSCAPE ARCHITECT ON SITE.

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT SIZING OF ALL IRRIGATION EQUIPMENT, INCL. BACKFLOW PREVENTION DEVICES, VALVES, PIPES, ETC. BASED ON AVAILABLE STATIC PRESSURE AT THE WATER METER. IF CHANGES IN THE VALVE ZONING ARE REQUIRED, NOTIFY THE LANDSCAPE ARCHITECT.

VALVE SIZING AND ZONE GPM ARE ESTIMATIONS AND PROVIDED HERE FOR BID PURPOSES ONLY AND MAY CHANGE AS NEEDED.







Project Name

## KNIGHT DEVELOPMENT GROUP

1124 LAS PULGAS ROAD  
PACIFIC PALISADES, CA 90272

Sheet Title

## LIGHTING PLAN

Stamp/Approval

Set Title

CHECK SET  
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 FINAL BID SET  
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Date:

09/5/18

Project No.:

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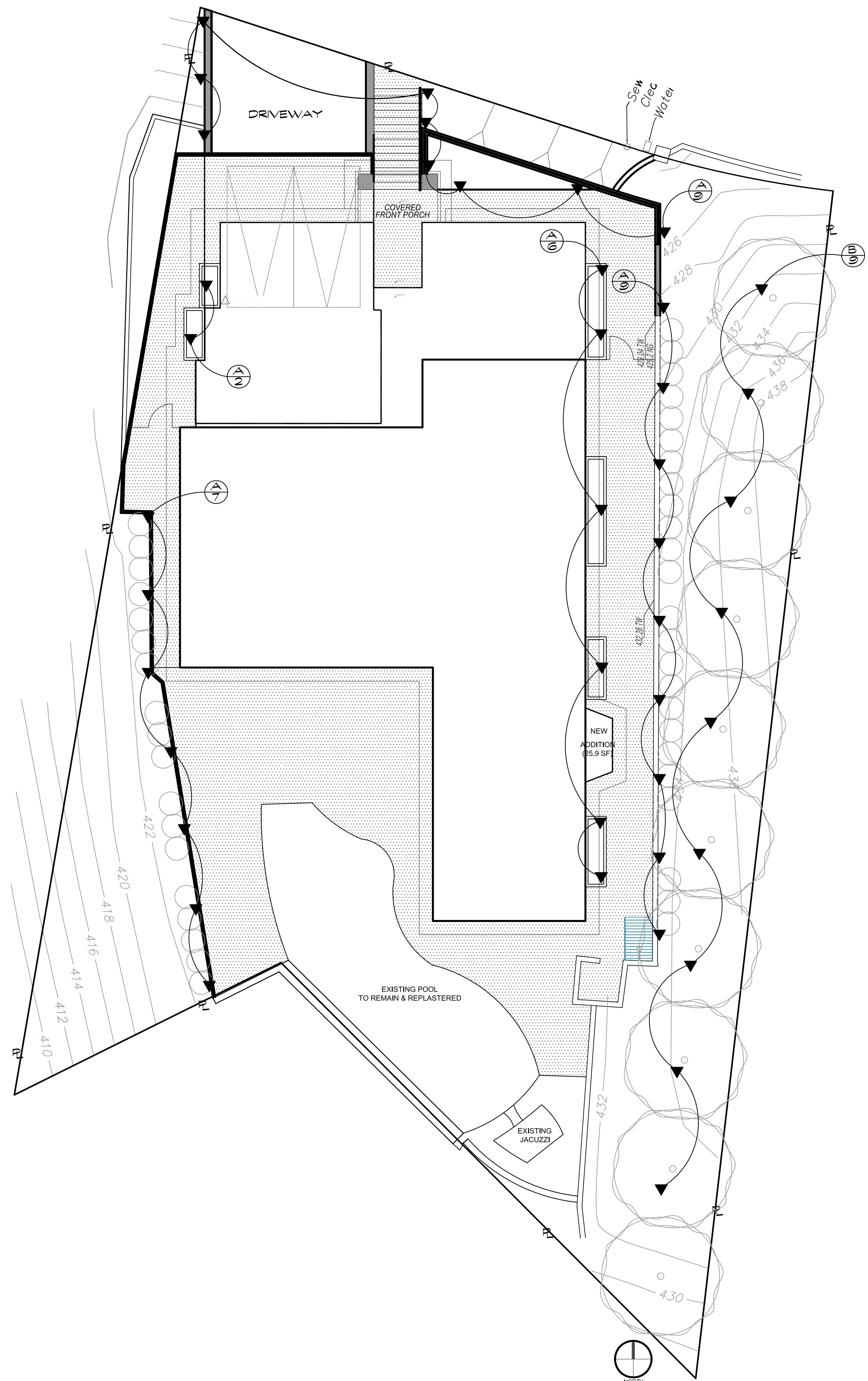
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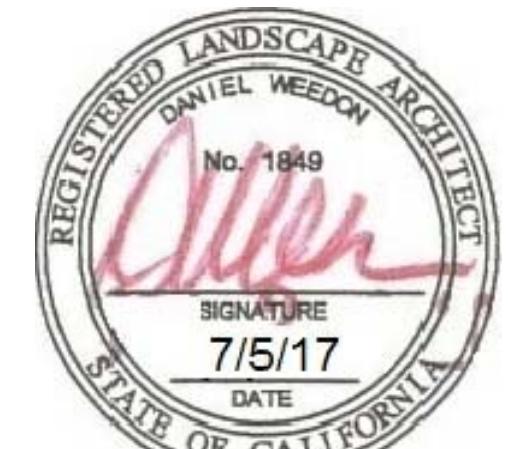
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A - PATH LIGHT



B - SPOT LIGHT



Project Name

## KNIGHT DEVELOPMENT GROUP

1124 LAS PULGAS ROAD  
PACIFIC PALISADES, CA 90272

Sheet Title

HYDROZONE PLAN,  
WELO WORKSHEETS  
& SOIL REPORT

Stamp/Approval

Set Title

CHECK SET  
 PRELIM. BID SET  
 FINAL BID SET  
 PERMIT SET  
 NOT FOR CONSTRUCTION  
 CONSTRUCTION / FIELD SET

Date: 09/5/18  
Project No. 0596

Drawn By: BL

Checked By: DW

Scale: 1/8"=1'-0"

Revisions Date/Description

A

Sheet No.

L4.1

KNIGHT DEV. GROUP

PROJECT # 596 DRAWER # X

## WELO WORKSHEETS

Maximum Applied Water Allowance Calculations for New and Rehabilitated Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name

ET<sub>0</sub> of City from Appendix A

Los Angeles      Name of City

50.10 ET<sub>0</sub> (inches/year)

0 Overhead Landscape Area (ft<sup>2</sup>)

4,515 Drip Landscape Area (ft<sup>2</sup>)

0 SLA (ft<sup>2</sup>)

Total Landscape Area 4,515.00

Results: (ET<sub>0</sub>) × (0.62) × [(0.55 × LA) + (1.0 - 0.55) × SLA)]

77,134.71 Gallons

10,311.45 Cubic Feet

103.11 HCF

0.24 Acre-feet

0.08 Millions of Gallons

MAWA

MAWA calculation incorporating Effective Precipitation (Optional)

Precipitation (Optional)

ET<sub>0</sub> of City from Appendix A

50.10 ET<sub>0</sub> (inches/year)

Total Landscape Area 4,515.00 LA (ft<sup>2</sup>)

Special Landscape Area 0.00 SLA (ft<sup>2</sup>)

Total annual precipitation (inches/year)

Enter Effective Precipitation 0.00 Eppr (in/yr)/(25% of total annual precipitation)

Results: MAWA = [(ET<sub>0</sub> - Eppr) × (0.62)] × [(0.55 × LA) + (1.0 - 0.55) × SLA]

Gallons

Cubic Feet

HCF

Acre-feet

Millions of Gallons

Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1

ETWU

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft <sup>2</sup> ) Without SLA	Enter Irrigation Efficiency (IE)	(PF × HA (ft <sup>2</sup> )) / IE
Zone 1	Drip	Low	0.30	193	0.81	71
Zone 2	Drip	Low	0.30	2,488	0.81	921
Zone 3	Drip	Medium	0.50	93	0.81	57
Zone 4	Drip	Low	0.30	950	0.81	352
Zone 5	Drip	Low	0.30	104	0.81	39
Zone 6	Drip	High	1.00	687	0.81	840
Zone 7						
Zone 8						
Zone 9						
Zone 10						
Zone 11						
Zone 12						
Zone 13						
Zone 14						
Zone 15						
Zone 16						
Zone 17						
Zone 18						
Zone 19						
Zone 20						
Zone 21						
Zone 22						
Zone 23						
Zone 24						
Zone 25						
Zone 26						
Zone 27						
Zone 28						
Zone 29						
Zone 30						
Zone 31						

MAWA = 77.135      ETWU = 71,093 Gallons      ETWU complies with MAWA

## HYDROZONE INFORMATION TABLE

Please complete the hydrozone table(s) for each hydrozone. Use as many tables as necessary to provide the square footage of landscape area per hydrozone.

Hydrozone*	Zone or Valve	Irrigation Method**	Area (Sq. Ft.)	% of Landscape Area
LW	1	D	193	5
LW	2	D	2,488	55
MW	3	D	93	2
LW	4	D	950	21
LW	5	D	104	2
HW	6	O (auto fill-Pool, spa)	687	15
Total			4,515	100%

## SOIL REPORT

## WALLACE LABORATORIES, LLC

365 Coral Circle  
El Segundo, CA 90245  
phone (310) 615-0116 fax (310) 640-6963

May 29, 2017

Sample ID Number: 17-188-05  
Sample Description: Backfill Mix, 0-6"

Date: 5/29/17

Location: Las Pulgas Road

Requester: David Weedon, DW/LA

Phone: (310) 615-0116

Email: dan@dw-la.com

Address: 1216 Elm Street

City: Venice, CA 90291

Comments: Lab ID: 17-188-05

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