

**HARDSCAPE LEGEND**

PAVING / STEPS	SHEET
<b>P.1</b> COBBLE DRIVE. COLOR: GRAY CHARCOAL MIX, SAND SET W/ POLYMERIC SAND. SUPPLIER: BDG. BORDER: 3 ROWS OF MORTAR SET COBBLE STACKED SIDE BY SIDE (LRV: 33).	-
<b>P.2</b> 1/4" DECOMPOSED GRANITE FINES MIXED W/ ON-SITE SOILS TO MATCH NATIVE HILLSIDE.	-
<b>P.3</b> CIP CONCRETE PADS. INTEGRAL COLOR CONCRETE. COLOR: DOVE TAIL GRAY (LRV: 26).	-
<b>P.4</b> AUTO COURT PAVING: EXPOSED AGGREGATE INTEGRAL COLOR CONCRETE. COLOR: DOVE TAIL GRAY (LRV: 26).	-
<b>P.5</b> LIMESTONE PAVERS, SAND SET, COLOR: BLUE HOT SPUR HONED (LRV: 35).	-
<b>P.6</b> CIP CONCRETE STEPS W/ LIMESTONE TREAD & RISERS, MORTAR SET. COLOR: BLUE HOT SPUR HONED (LRV: 35).	-
<b>P.7</b> SAND SET BRICK IN RUNNING BOND PATTERN. BANDING: MORTAR SET 4"x8" BRICK LAID SIDE BY SIDE. BRICK: NORTH AMERICAN STANDARD WHINSTONE (LRV: 26).	-
<b>P.8</b> CIP CONCRETE STEPS W/ BRICK VENEER TREAD & RISERS, MORTAR SET. BRICK: NORTH AMERICAN STANDARD BRICK WHINSTONE (LRV: 26).	-
<b>P.9</b> 2" THICK BLUE HOT SPUR HONED COPING W/ DOUBLE EASED EDGE. 1" CANTILEVER (LRV: 35).	-
<b>P.10</b> PEA GRAVEL - 3/8" SCREEN PEA GRAVEL; 2" THICK OVER COMPACTED SUB-BASE. COLOR: CALIFORNIA GRAY BLEND (LRV: 31).	-
<b>P.11</b> LAWN & GRAVEL BORDER: 3/8"x6" METAL EDGE. COLOR: BLACKENED METAL (LRV: 16).	-
<b>P.12</b> GRASSCRETE PAVING.	-

COLUMNS	SHEET
<b>C.1</b> CMU MAILBOX COLUMN, STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	HD.1
<b>WALLS</b>	
<b>W.1</b> CMU SCREEN WALL, STUCCO & PAINT TO MATCH HOME, SEE PLAN FOR HEIGHT. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	HD.1
<b>W.2</b> CMU RETAINING WALL, STUCCO & PAINT TO MATCH HOME, SEE PLAN FOR HEIGHT. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	HD.1
<b>W.3</b> CMU SCREEN WALL W/ PRECAST CONCRETE CAP. STUCCO & PAINT WALL TO MATCH HOME, SEE PLAN FOR HEIGHT. WALL & CAP TO BE DOVE TAIL GRAY (LRV: 26).	HD.1
<b>W.4</b> CMU RETAINING WALL W/ PRECAST CONCRETE CAP. STUCCO & PAINT WALL TO MATCH HOME, SEE PLAN FOR HEIGHT. WALL & CAP TO BE DOVE TAIL GRAY (LRV: 26).	HD.1
<b>W.5</b> METAL FIN FENCE, SEE PLAN FOR HEIGHT. COLOR: BLACKENED METAL (LRV: 16).	HD.1

GATES	SHEET
<b>G.1</b> 4'-0" WIDE METAL FIN FENCE GATE. COLOR: BLACKENED METAL (LRV: 16).	HD.1
<b>G.2</b> 4'-0" WIDE SOLID METAL PANEL GATE. PAINT COLOR: DOVE TAIL GRAY TO MATCH ADJACENT WALLS (LRV: 26).	HD.2
<b>G.3</b> 4'-0" WIDE WOOD GATE AT MASTER BATH (LRV: 37).	HD.2
<b>AMENITIES</b>	
<b>A.1</b> METAL GAS FIREPIT. COLOR: BLACKENED METAL (LRV: 16).	HD.2
<b>A.2</b> RAISED METAL GARDEN. COLOR: BLACKENED METAL (LRV: 16).	HD.2
<b>A.3</b> CMU BBQ STRUCTURE. STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	HD.2
<b>A.4</b> BLACK HONED GRANITE WATER FEATURE (LRV: 3).	HD.3
<b>A.5</b> WATER FEATURE WITH HAND WATER PUMP. COLOR: TO MATCH BLUE HOT SPUR HONED PAVING (LRV: 35).	HD.3
<b>A.6</b> BBQ BY ARCHITECT. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	-
<b>POOL/SPA</b>	
<b>PS.1</b> RAISED SPA - BY POOL BUILDER. COLOR: STEEL GRAY PEBBLE FINA (LRV: 18).	HD.3
<b>PS.2</b> POOL WALL - BY POOL BUILDER. TILE EXTERIOR SURFACE W/ VINTAGE WOOD SERIES MIST TILE. COLOR: GRAY (LRV: 16).	-
<b>PS.3</b> POOL TROUGH WALL - BY POOL BUILDER. BLUE HOT SPUR HONED CAP TO MATCH ADJACENT PAVING (LRV: 35). WALL: STUCCO & PAINT TO MATCH HOME, SEE PLAN FOR HEIGHT. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).	-

1 10.03.19 PV HILLSIDE COMMENTS



LANDSCAPE +  
CONSTRUCTION MANAGEMENT

7000 EAST MCDOWELL ROAD  
SUITE 100  
SCOTTSDALE, ARIZONA 85257  
TEL: 480.481.3433  
FAX: 480.481.3533

BERGHOFFDESIGN.COM

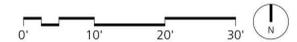
**PETERSON  
RESIDENCE**

6837 NORTH LOST DUTCHMAN ROAD  
PARADISE VALLEY, ARIZONA 85253

**HP.1  
HARDSCAPE PLAN**

SEPTEMBER 27 . 2019

CALL TWO WORKING DAYS  
BEFORE YOU DIG  
(602) 263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



**CLIENT SURVEYOR/ENGINEER**

REGAL AMERICAN HOMES  
AVRAHAM AZOULAY  
4408 N. 12TH STREET  
PHOENIX, AZ 85014  
PH: 480-430-1035

D & M ENGINEERING  
ATTN: DURAN THOMPSON  
1020 EAST GILBERT DRIVE, SUITE D  
TEMPE, AZ 85281  
(480) 350-9590

# PRELIMINARY GRADING PLAN

FOR  
**6837 NORTH LOST DUTCHMAN, PARADISE VALLEY, ARIZONA**  
A PORTION OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER  
BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

**LEGAL DESCRIPTION**

LOT 24 CLUB ESTATES, AS RECORDED IN BOOK 74 AND PAGE 49 OF THE OFFICIAL RECORDS OF MARICOPA COUNTY, ARIZONA

**PROJECT DATA**

- PROJECT ADDRESS: 6837 NORTH LOST DUTCHMAN ROAD, PARADISE VALLEY, AZ 85253
- LOT AREA: 46,983 SF - 1.08 ACRES
- ASSESSOR'S PARCEL NUMBER: 169-32-026
- ZONING: R-43
- FLOOR AREA RATIO (F.A.R.): 11,335/46,983 ~ 24%
- PROPOSED AREA UNDER ROOF: 11,335 SF
- NEW DRIVEWAY MATERIAL: CONCRETE PAVER - 5,587 SF  
MAXIMUM DRIVEWAY SLOPE: 10%
- EARTHWORK QUANTITIES: CUT - 1,758 CY ~ FILL 1,700 CY

**CIVIL SITE PLAN NOTES**

NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL ALL TOWN CODE REQUIREMENTS ARE COMPLIED INCLUDING, BUT NOT LIMITED TO LANDSCAPING, GROUND RESTORATION, FIRE FLOW, FIRE SAFETY AND ALL ONSITE AND OFFSITE IMPROVEMENTS.

ALL OUTDOOR LIGHTING SHALL BE IN CONFORMANCE WITH ARTICLE XXII OF THE TOWN ZONING ORDINANCE.

ALL EXCESS FILL MATERIAL SHALL BE REMOVED FROM THE SITE WITH NO NEW SPILL SLOPES.

THE USE OF HYDRAULIC RAM HAMMERS, OR OTHER HEAVY EQUIPMENT USED TO CUT THROUGH ROCK, INCLUDING MACHINERY WITH AUDIBLE BACK UP WARNING DEVICES SHALL BE LIMITED TO USE BETWEEN THE HOURS OF 7:00AM OR SUNRISE, WHICHEVER IS LATER, AND 6:00PM OR SUNSET, WHICHEVER IS EARLIER, MONDAY THROUGH FRIDAY, WITH LIMITED WORK ON SATURDAY AND NO WORK ON SUNDAY OR LEGAL HOLIDAYS. RAM HAMMERS AND OTHER HEAVY EQUIPMENT CANNOT BE USED ON SATURDAYS WITHOUT A WAIVER FROM THE TOWN MANAGER.

CONSTRUCTION STAKING AND/OR FENCING SHALL BE PLACED AROUND THE CONSTRUCTION SITE SO AS TO PROTECT THE UNDISTURBED NATURAL.

**BENCHMARK**

BRASS CAP IN HAND HOLE MARKING THE EAST QUARTER CORNER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 4 EAST OF GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.  
MCDOT POINT NAME: 10888  
ELEVATION: 1342.92 (NAVD88)

**RETAINING WALL NOTES**

NUMBER OF RETAINING WALLS: 15  
TOTAL LENGTH OF ALL WALLS: 731  
MAXIMUM HEIGHT OF RETAINING WALLS: 8'  
MAXIMUM CONTINUOUS LENGTH OF RETAINING WALLS: 162'  
MAXIMUM CONTINUOUS OF VISIBLE RETAINING WALL MEASURED FROM ANY POINT AROUND THE PROPERTY: 230 LF

**HILLSIDE DISTURBANCE CALCULATIONS**

LOT AREA: 46,983 SF ~ 1.079 AC  
AREA UNDER ROOF ~ 11,335 SF  
FLOOR AREA RATIO ~ 24%  
BUILDING PAD SLOPE: 11.7%  
VERTICAL: 22'  
HORIZONTAL: 188'  
ALLOWABLE DISTURBED AREA: 47.94%  
ALLOWABLE DISTURBED AREA: 22,524 SF  
EXISTING DISTURBED AREA: 28,515 SF  
PROPOSED DISTURBED AREA: 21,552 SF (EXCLUDES LIVABLE AREA & CREDITS PAVER D/W AT 75% SEE METHODOLOGY BELOW)  
PERCENT OF LOT STEEPER THAN NATURAL GRADE: 0 SF  
VOLUME OF CUT: 1,758 CY  
VOLUME OF FILL: 1,700 CY

REQUIRED HILLSIDE ASSURANCE (CUT + FILL) X \$25: \$86,450

**LOT DISTURBANCE METHODOLOGY**

AREA OF EXISTING DRIVE TO BE RE-BUILT: 1,290 SF  
AREA OF NEW DRIVE WAY: 5,587 SF  
NEW DRIVE AREA - LESS EXISTING DRIVE RE-BUILD: 5,587 SF - 1,290 SF = 4,297 SF  
NEW DRIVE TO BE CONCRETE PAVER AND COUNT AT A RATE OF 75% TOWARDS DISTURBANCE.  
EFFECTIVE DRIVE AREA: 4,297 X 0.75 = 3,223  
DISTURBED AREA EXCLUSIVE OF DRIVEWAY, GARAGE AND LIVABLE AREAS: 18,329 SF

TOTAL LOT DISTURBANCE: 18,329 SF + 3,223 SF = 21,552 SF ~ 45.87%

**LEGEND**

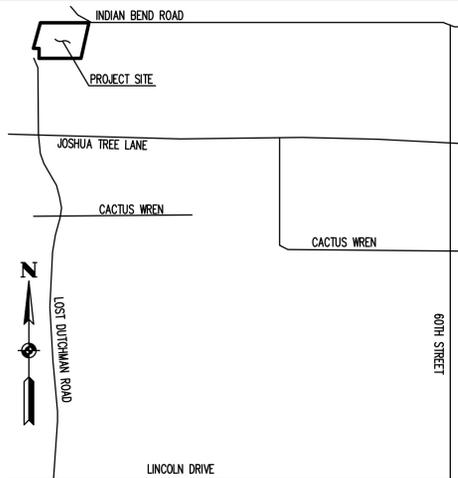
--- BOUNDARY/LOT LINE	TRW TOP RETAINING WALL
- - - EASEMENT LINE	BSL BUILDING SETBACK LINE
--- SETBACK LINE	UTL UTILITY
--- EXISTING CONTOUR	R/W RIGHT OF WAY
--- EXISTING WALL	B/C BACK OF CURB
--- FLOWLINE	C CONCRETE
--- EDGE OF PAVEMENT	P PAVEMENT/PAVER GRADE
--- EX. BACK OF CURB	TF TOP OF FOOTER
--- CENTERLINE	ESMT. EASEMENT
--- DISTURBANCE LIMITS	FG FINISHED GRADE
--- NEW RETAINING/STEM WALL	TSW TOP STEM WALL
--- EXISTING STORM DRAIN	FL FLOW LINE
--- EXISTING BUILDING	GR GRATE
--- EXISTING DISTURBANCE LINE	TW TOP OF WALL
--- HWE	PLTR PLANTER
--- NATURAL SOD	
--- ARTIFICIAL TURF	
--- PAVERS	

**POOL FILTER BACKWASH SYSTEM**

ALL POOL BACKWASH WATER TO BE RETAINED ON-SITE IN OPEN STORM WATER RETENTION BASINS.

**CONSTRUCTION NOTES**

- CONSTRUCT CONCRETE PAVER DRIVEWAY. MATERIAL PER OWNER. HILLSIDE COMMITTEE APPROVAL REQUIRED.
- FURNISH AND INSTALL 18" CMP STORM DRAIN. INVERT PER PLAN. MITER END OF PIPE TO MATCH ADJACENT FINISHED GRADE. PIPE TO BE SLEEVED THROUGH ON-SITE WALLS.
- CONSTRUCT SCREEN WALL FOR MECHANICAL EQUIPMENT. WALL TO EXTEND NO MORE THAN 6" ABOVE THE MAX HEIGHT OF SCREENED EQUIPMENT.
- CONSTRUCT BUILDING PAD PER RECOMMENDATIONS OF SITE GEOTECHNICAL REPORT.
- CONSTRUCT RETAINING WALL. SHOWN HERE FOR REFERENCE AND GRADE. DETAILS BY SEPARATE SHOP DRAWING AND PERMIT. WALLS NOT TO EXTEND MORE THAN 6" ABOVE HIGH FINISHED GRADE.
- CONSTRUCT RETAINING WALL W/ VIEWFENCE. SHOWN HERE FOR REFERENCE AND GRADE. DETAILS BY SEPARATE SHOP DRAWING AND PERMIT. WALLS NOT TO EXTEND MORE THAN 6" ABOVE HIGH FINISHED GRADE.
- CONSTRUCT OPEN STORM WATER RETENTION BASIN.
- CONNECT TO EXISTING AND EXTEND DOMESTIC WATER SERVICE. SERVICE SIZE PER PLUMBING PLANS. COORDINATE METER INSTALLATION AND CONNECTION WITH UTILITY PROVIDER.
- INSTALL MAXWELL TYPE IV DRYWELL. GRATE ELEVATION 1427.3
- CONSTRUCT EXTENDED STEM WALL. SHOWN FOR REFERENCE AND GRADE ONLY. BY SEPARATE SHOP DRAWING AND PERMIT.
- PROVIDE SELF-CLOSING, SELF-LATCHING GATE MEETING MINIMUM POOL BARRIER STANDARDS
- FURNISH AND INSTALL DUMPED ANGULAR RIP-RAP, D50: 18", MINIMUM SIZE 12". PROVIDE GEOTEXTILE FILTER FABRIC BELOW RIP-RAP INSTALLATION. INSTALLATION METHOD TO PRESERVE INTEGRITY OF FILTER MATERIAL AND MATCH FINISHED GRADE OF RIP TO EXISTING NATIVE GRADES. MINIMUM DEEP OF RIP-RAP LAYER TO BE 24".
- FURNISH AND INSTALL 6" PVC STORM DRAIN, PROVIDE CLEAN-OUTS AND ALL BENDS.
- FURNISH AND INSTALL NDS SPEE-D DRAIN TRENCH DRAIN
- FURNISH AND INSTALL 12" CATCH BASIN WITH GRATE AREA DRAIN



**VICINITY MAP**  
SCALE: 1"=500'

**RETAINING WALL NOTE**

MAX RETAINING WALL HEIGHT NOT TO EXCEED 8' MEASURED FROM THE LOW FINISHED OR NATURAL GRADE TO THE TOP OF RETAINING WALL.

**RETENTION CALCULATIONS**

**PRE-IMPROVEMENT CONDITIONS:**

NATIVE DESERT: 46983 sf (C: 0.50)

**IMPROVED CONDITIONS:**

IMPERVIOUS AREA (ROOF/CONCRETE): 20,184 SF (C: 0.95)  
LANDSCAPED AREA (DESERT): 26,799 SF (C: 0.50)

**POST-IMPROVEMENT WEIGHTED RUN-OFF COEFFICIENT (C<sub>w-post</sub>):**

IMPERVIOUS AREA X 0.95 + LANDSCAPED (DESERT) AREA X 0.50  
46,983  
C<sub>w-post</sub> = 0.69

**RETENTION REQUIRED V (1.100 CF MIN.):**

V<sub>R</sub> = AREA X DEPTH X (C<sub>w-dev</sub> - C<sub>w-pre</sub>)  
V<sub>R</sub> = 46,983 X 2.21 X (0.69 - 0.50)  
12

V<sub>R</sub> = 1,644 CF

**RETENTION PROVIDED:**

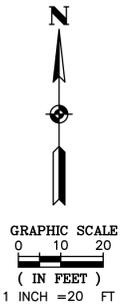
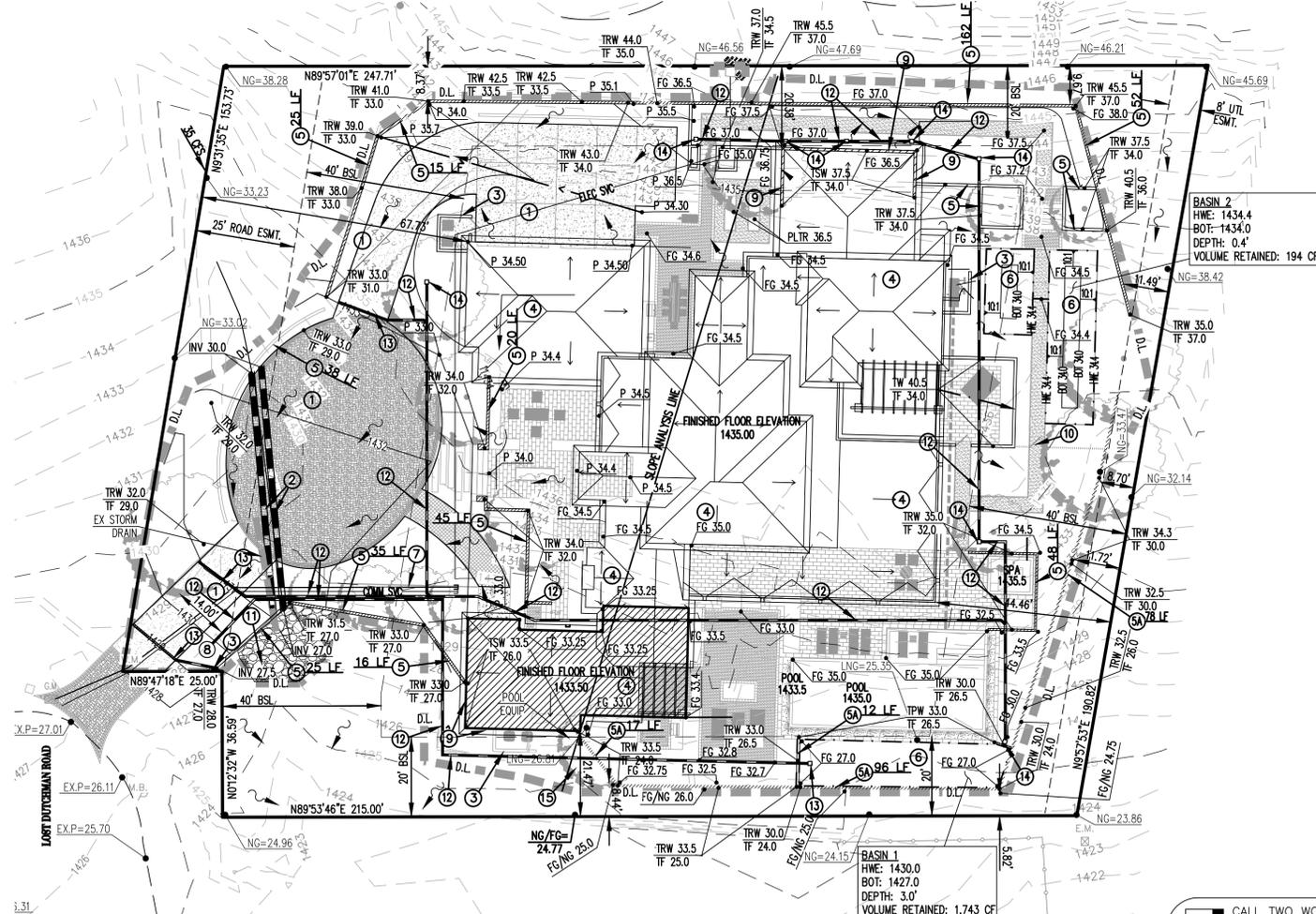
BASIN 1: 1,743 CF  
BASIN 2: 194 CF  
TOTAL: 1,937 CF

**FLOOD INSURANCE RATE MAP (FIRM) INFORMATION**

COMMUNITY NUMBER	PANEL #	SUFFIX	DATE OF FIRM (INDEX DATE)	FLOOD ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
040049	1765	L	10-16-13	X	NA

**DRAINAGE STATEMENT**

SITE GRADING AND DEVELOPMENT WILL MAINTAIN EXISTING DRAINAGE PATTERNS. THE MAXIMUM ANTICIPATED WATER SURFACE ELEVATIONS ADJACENT TO THE MAIN RESIDENCE AND GUEST CASITA ARE 1434 AND 1428, RESPECTIVELY. THE FINISHED FLOOR ELEVATIONS OF THE MAIN RESIDENCE AND GUEST CASITA ARE 1435 AND 1433.5, RESPECTIVELY AND SUFFICIENTLY ELEVATED. THE SUBJECT PROPERTY IS IMPACTED BY OFF-SITE STORM WATER RUN-OFF DEVELOPED OVER APPROXIMATELY 6 ACRES OF THE SOUTHERN SLOPES OF MUMMY MOUNTAIN. THE ANTICIPATED PEAK DISCHARGE FROM THE CONTRIBUTING DRAINAGE AREA IS 35 CFS. THE STORM WATER WILL BE ALLOWED TO TRAVERSE THE PROJECT SITE ALONG THE HISTORIC FLOW PATH AND BE CONVEYED VIA TWO 18" CMP STORM DRAIN PIPE UNDER THE DRIVE IN A MANNER CONSISTENT WITH THE EXISTING CONDITIONS. THE CAPACITY OF EACH OF THE PROPOSED STORM DRAIN PIPES GIVEN BY MANNING'S EQUATION FOR OPEN CHANNEL FLOW IS 22.5 CFS. THE PROPOSED ANALYSIS NEGLECTS THE EFFECTS OF PRESSURE HEAD ON THE STORM DRAIN SYSTEM AND YIELDS A CONSERVATIVE ESTIMATE THE OF THE SYSTEMS CAPACITY. THE SITE WILL PROVIDE 1,649 CF OF STORM WATER RETENTION PER THE TOWN'S DESIGN REQUIREMENTS.



**D & M Engineering**  
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**REGAL AMERICAN HOMES - LOST DUTCHMAN**  
6837 NORTH LOST DUTCHMAN ROAD  
PARADISE VALLEY, ARIZONA 85253

**PRELIMINARY GRADING PLAN**

REVISIONS

NO.	DATE	APP.	DESCRIPTION

DESIGNED: SWB  
DRAWN: AGY  
CHECKED: DTT  
DATE: 10-3-19  
SCALE: 1"=20'  
PROJECT: 170112  
FILE NAME: Survey.dwg

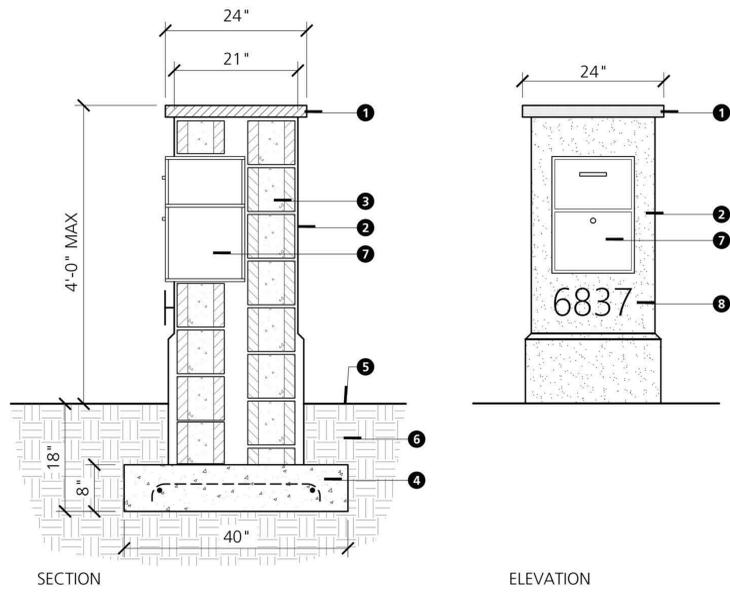
EXPIRES: 3/31/20

CALL TWO WORKING DAYS BEFORE YOU DIG BLUE STAKE CENTER  
602-263-1100 OR 811  
INSIDE MARICOPA COUNTY

**SHEET 1 OF 1**

**LEGEND**

- 2" THICK LIMESTONE CAP. EASED EDGE. COLOR: BLUE HOT SPUR HONED (LRV: 35).
- STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- 8" CMU BLOCK W/ HOLLOW CELLS.
- CONCRETE FOOTING W/ (2) #4 CONTINUOUS.
- FINISH GRADE; SLOPE AWAY FROM COLUMN.
- 95% COMPACTED SUBGRADE.
- USPS APPROVED PARCEL/MAIL DROP BOX.
- ADDRESS MARKER W/ METAL NUMBERS.



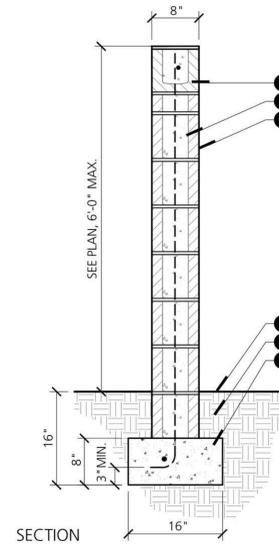
**C.1 MAILBOX**  
1"=1'-0"

**LEGEND**

- 8" BOND BEAM W/ (1) #4 CONTINUOUS IN SOLID GROUT (TIED).
- 8" CMU BLOCK W/ (1) #4 @ 16" O.C. IN SOLID GROUT.
- STUCCO FINISH PAINTED TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- FINISH GRADE; SLOPE AWAY FROM WALL.
- 95% COMPACTED SUBGRADE.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS.

**NOTES**

- A. REFER TO HARDSCAPE PLAN FOR WALL ELEVATIONS.



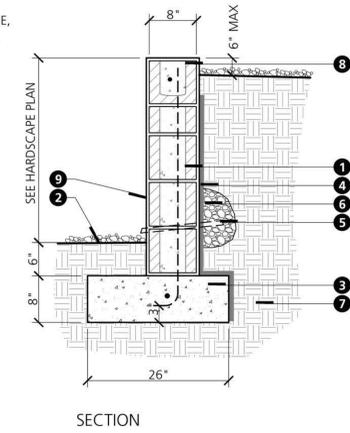
**W.1 STUCCO SCREEN WALL**  
1"=1'-0"

**LEGEND**

- 8" CMU BLOCK W/ (1) #4 AT 24" O.C.
- FINISH GRADE, SLOPE AWAY FROM WALL.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS.
- WATERPROOF BACK FILLED SIDE OF WALLS.
- 1" DIA. WEEP @ 6" O.C.
- ABC SUMP COVERED W/ FILTER FABRIC.
- COMPACTED SUBGRADE.
- 8" BOND BEAM W/ (1) #4 CONTINUOUS.
- STUCCO FINISH PAINTED TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).

**NOTES**

- A. REFER TO HARDSCAPE PLAN FOR WALL ELEVATIONS.



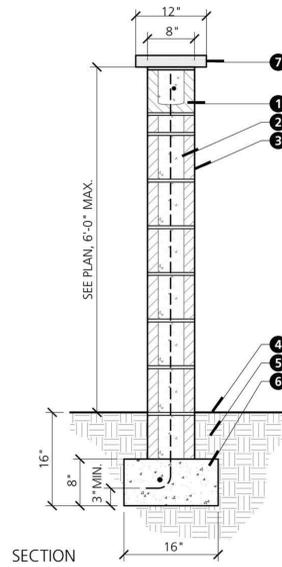
**W.2 STUCCO RETAINING WALL**  
1"=1'-0"

**LEGEND**

- 8" BOND BEAM W/ (1) #4 CONTINUOUS IN SOLID GROUT (TIED).
- 8" CMU BLOCK W/ (1) #4 @ 16" O.C. IN SOLID GROUT.
- STUCCO FINISH PAINTED TO MATCH HOME. COLOR: DOVE TAIL GRAY (LRV: 26).
- FINISH GRADE; SLOPE AWAY FROM WALL.
- 95% COMPACTED SUBGRADE.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS.
- PRECAST CONCRETE CAP. COLOR: BLUE HOT SPUR HONED (LRV: 35).

**NOTES**

- A. REFER TO HARDSCAPE PLAN FOR WALL ELEVATIONS.



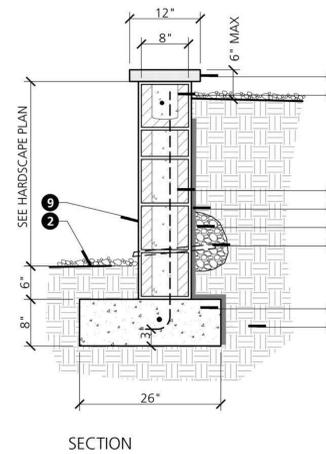
**W.3 STUCCO SCREEN WALL W/CAP**  
1"=1'-0"

**LEGEND**

- 8" CMU BLOCK W/ (1) #4 AT 24" O.C.
- FINISH GRADE, SLOPE AWAY FROM WALL.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS.
- WATERPROOF BACK FILLED SIDE OF WALLS.
- 1" DIA. WEEP @ 6" O.C.
- ABC SUMP COVERED W/ FILTER FABRIC.
- COMPACTED SUBGRADE.
- 8" BOND BEAM W/ (1) #4 CONTINUOUS.
- STUCCO FINISH PAINTED TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
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**NOTES**

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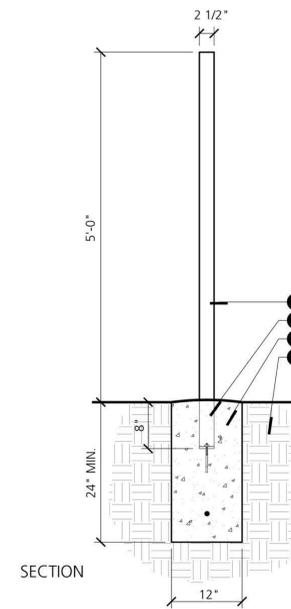
**W.4 STUCCO RETAINING WALL W/ CAP**  
1"=1'-0"

**LEGEND**

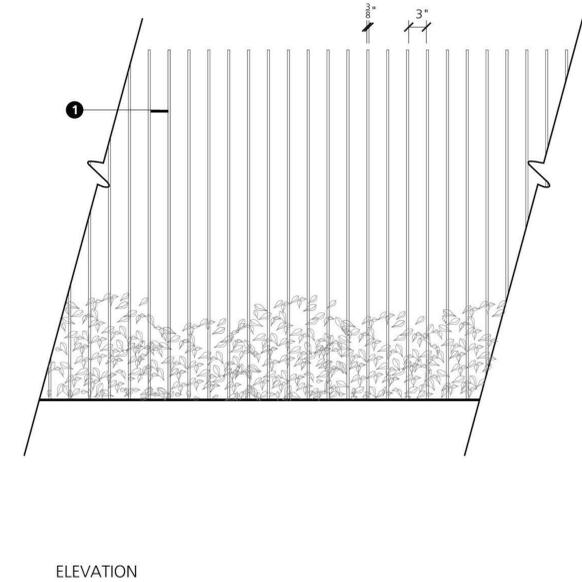
- METAL PICKETS. 3/8" x 2 1/2", WELDED TO BOTTOM RAIL W/ 3" CLEARANCE BETWEEN PICKETS. COLOR: BLACKENED METAL (LRV: 16).
- BOTTOM RAIL BURIED INTO WALL & SECURED W/ 1" BOLT INTO GROUTED CMU CELL @ 16" O.C.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS.
- COMPACTED SUBGRADE.

**NOTES**

- A. POOL FENCE TO MEET LOCAL POOL BARRIER REQUIREMENTS.



**W.5 METAL FIN FENCE**  
1"=1'-0"

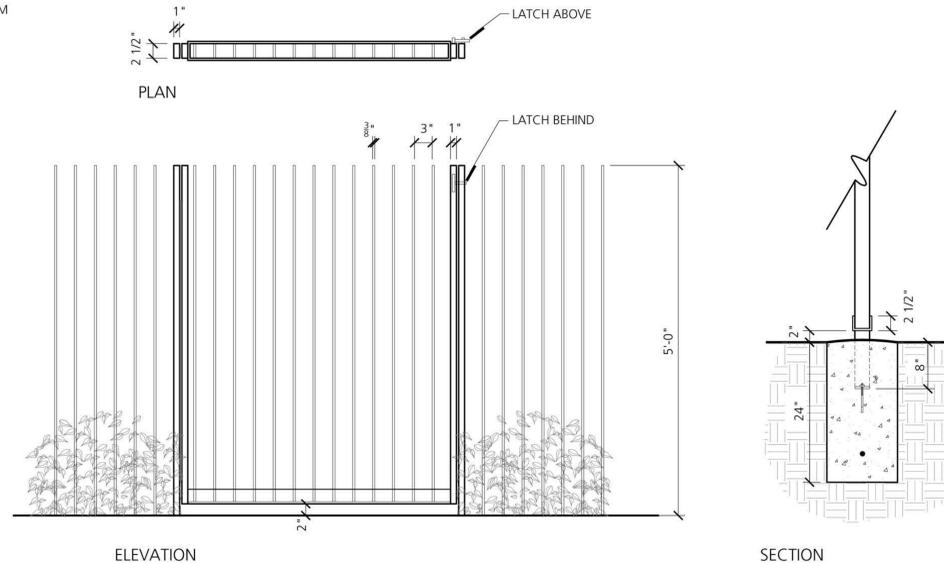


**LEGEND**

- METAL PICKETS. 3/8" x 2 1/2", WELDED TO BOTTOM RAIL W/ 3" CLEARANCE BETWEEN PICKETS. COLOR: BLACKENED METAL (LRV: 16).
- POST HINGE.
- 3/8" THICK BOTTOM RAIL FRAME W/ PICKETS WELDED INTO BOTTOM OF FRAME.
- CONCRETE FOOTING W/ (1) #4 CONTINUOUS. SLOPE TOP TO DRAIN AWAY FROM POSTS.
- POSTS SET INTO CONC. FOOTING & SECURED W/ 1" BOLT.

**NOTES**

- A. GATE FABRICATOR SHALL PROVIDE SHOP DRAWINGS.  
B. GATE TO BE SELF CLOSING & LATCHING PER LOCAL POOL CODE.



**G.1 METAL FIN FENCE GATE**  
1"=1'-0"



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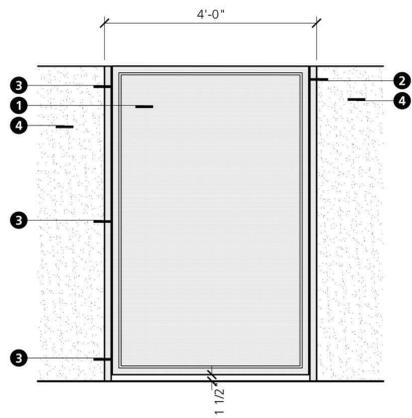
**HD.1 HARDSCAPE DETAILS**

SEPTEMBER 27, 2019

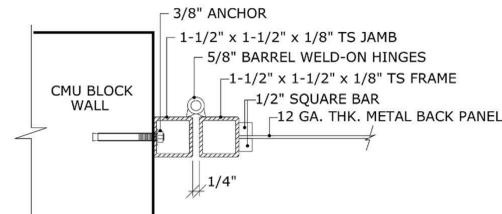


**LEGEND**

- SOLID METAL BACK PANEL PAINTED TO MATCH ADJACENT WALLS. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- GRAVITY LATCH ON REVERSE SIDE.
- IRON HINGES AND HARDWARE.
- ADJACENT CMU WALL. STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).



CHARACTER



ENLARGEMENT

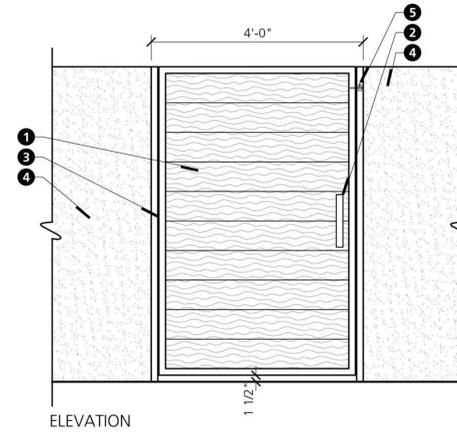
**G.2 SOLID METAL PANEL GATE**  
3/4"=1'-0"

**LEGEND**

- WOOD PANEL GATE.
- METAL DOOR HANDLE.
- DECORATIVE IRON HINGES & HARDWARE.
- ADJACENT CMU WALL. STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- GRAVITY LATCH.

**NOTES**

- A. WOOD TO MATCH WOOD USED ON HOME (LRV: 37).

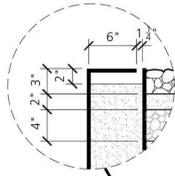


CHARACTER

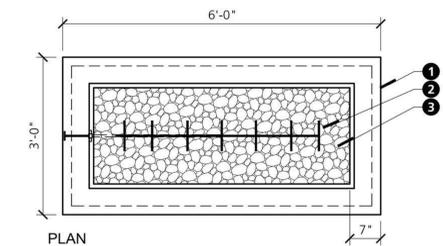
**G.3 WOOD GATE**  
3/4"=1'-0"

**LEGEND**

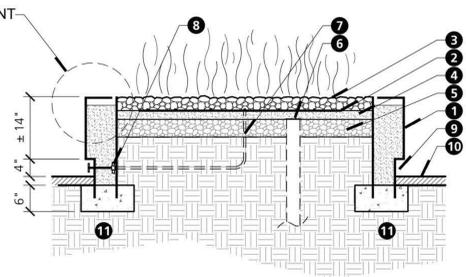
- METAL WALLS SUNKEN 3" DEEP INTO CONCRETE FOOTING. COLOR: BLACKENED METAL (LRV: 16). EXTERIOR WALL TO HAVE 6" TOP EDGE FOR DRAIN PLACEMENT. FILL CAVITY W/ SAND.
- LINEAR FIRE ELEMENT.
- FIRE ROCK 3" DEEP.
- 2" DEEP LAYER OF SAND.
- 4" DEEP ABC OVER COMPACTED SUB-GRADE.
- 3" METAL DRAIN PIPE W/ METAL GRILL CAP AT OPENING.
- 3/4" NATURAL GAS LINE. BY OTHERS.
- INSET GAS LINE KEY VALVE. LOCATE ON SIDE FACING AWAY FROM HOME. PROVIDE EXTRA LONG IGNITION KEY.
- 4" TOE KICK. INSET 2".
- ADJACENT PAVING PER HARDSCAPE PLAN.
- COMPACTED SUBGRADE.



ENLARGEMENT



PLAN



SECTION

**A.1 METAL FIREPIT**  
3/4"=1'-0"

**LEGEND**

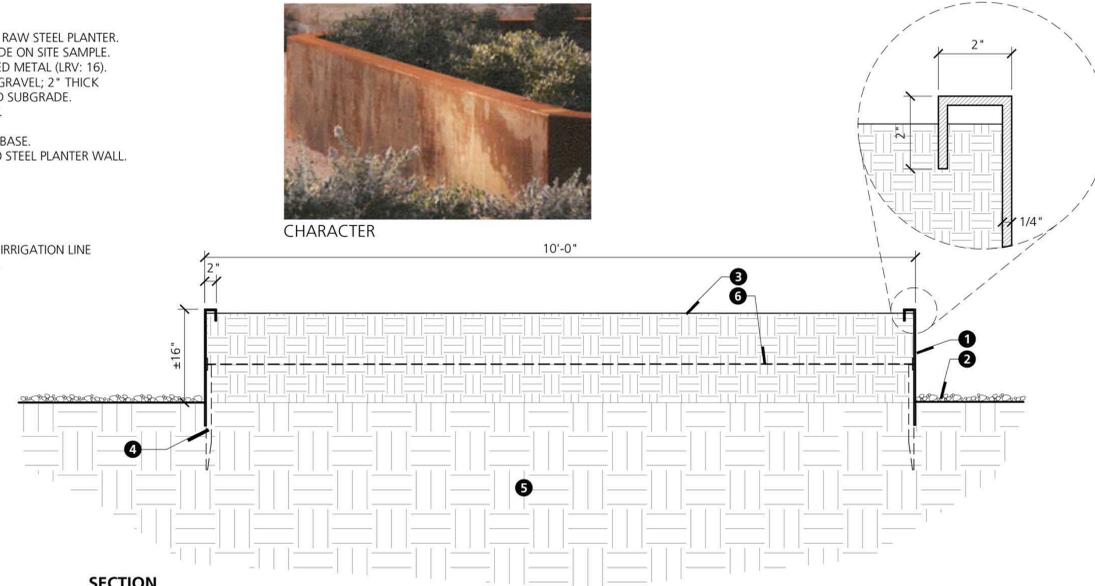
- 3"x10"x1/4" THICK RAW STEEL PLANTER. BUILDER TO PROVIDE ON SITE SAMPLE. COLOR: BLACKENED METAL (LRV: 16).
- 3/8" SCREEN PEA GRAVEL; 2" THICK OVER COMPACTED SUBGRADE.
- PLANTING MATRIX.
- METAL STAKE.
- COMPACTED SUB-BASE.
- REBAR WELDED TO STEEL PLANTER WALL.



CHARACTER

**NOTES**

- A. PROVIDE SEPARATE IRRIGATION LINE FOR EACH PLANTER.

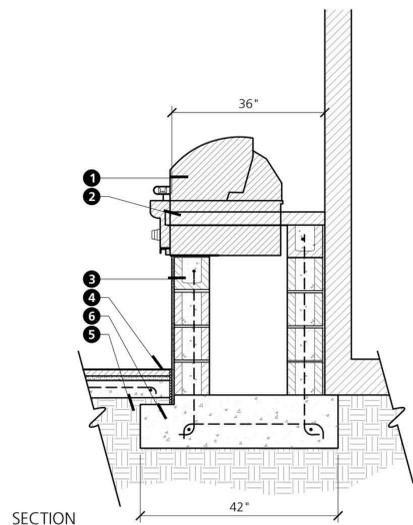


SECTION

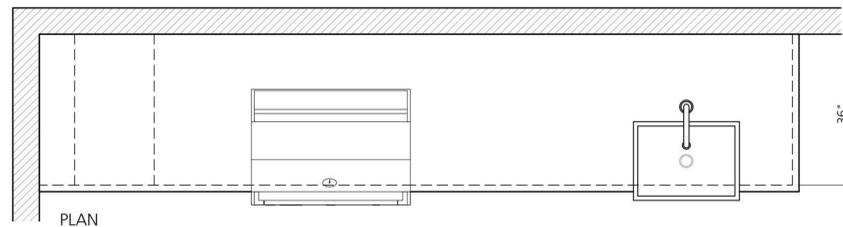
**A.2 RAISED METAL GARDEN**  
1"=1'-0"

**LEGEND**

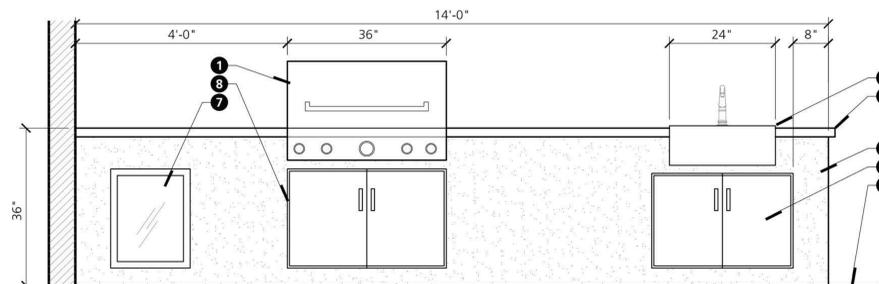
- BBQ UNIT. SELECTED BY OWNER/BUILDER.
- 2" THICK COUNTERTOP. EASED EDGE. 1 1/2" OVERHANG.
- 8" CMU STRUCTURE. STUCCO FINISH PAINTED TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- ADJACENT PAVING PER HARDSCAPE PLAN; PROVIDE 1/2" E.J. BETWEEN POURS.
- COMPACTED SUB-GRADE.
- 42" CONC. FOOTING W/ (2) #4 CONTINUOUS.
- DOG DOOR.
- OWNER SELECTED ACCESS DOORS.
- FARMHOUSE SINK TO BE SELECTED BY OWNER.



SECTION



PLAN



ELEVATION

**A.3 BBQ**  
3/4"=1'-0"



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**LEGEND**

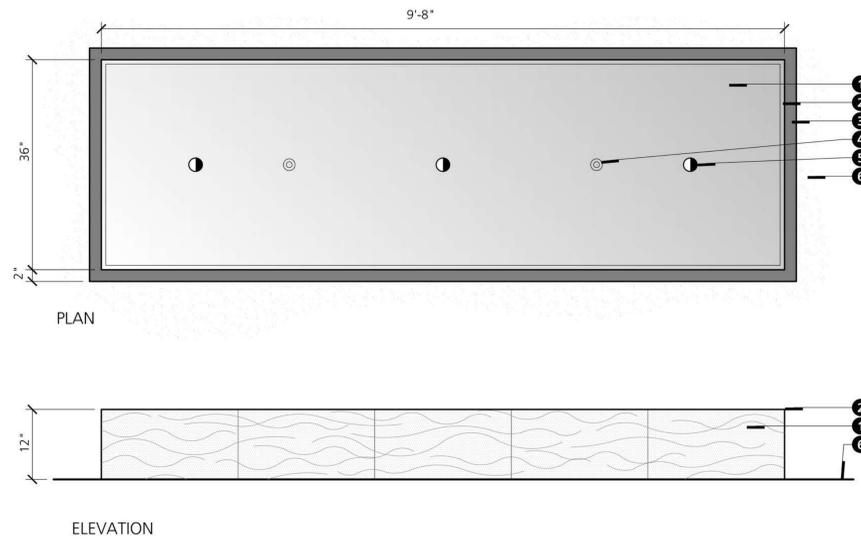
1. BLACK HONED GRANITE VENEER (LRV: 3).
2. KNIFE EDGE.
3. WATER TROUGH BELOW.
4. BUBBLER.
5. UNDER WATER LED LIGHT.
6. ADJACENT HARDSCAPE PER PLAN.

**NOTES**

- A. WATER FEATURE DETAIL IS SCHEMATIC & PROVIDED FOR DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, REINFORCEMENT, & MATERIALS PRIOR TO CONSTRUCTION.
- B. WATER LIGHTS BY WATER FEATURE CONTRACTOR.



CHARACTER



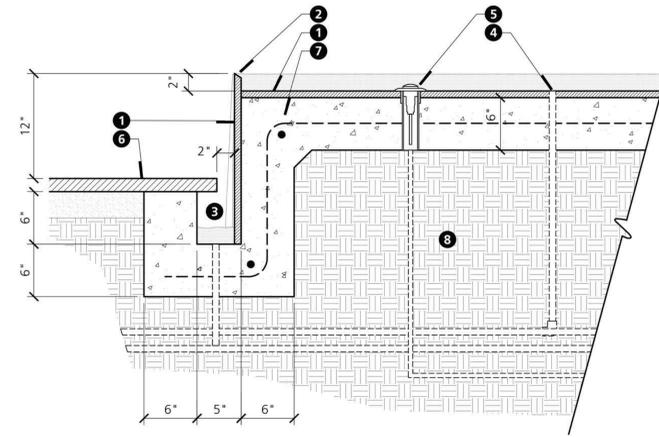
**A.4** BLACK HONED GRANITE WATER FEATURE  
1"=1'-0"

**LEGEND**

1. BLACK HONED GRANITE VENEER (LRV: 3).
2. KNIFE EDGE.
3. WATER TROUGH.
4. BUBBLER.
5. UNDER WATER LED LIGHT.
6. ADJACENT HARDSCAPE PER PLAN.
7. REINFORCED CONCRETE WALL.
8. COMPACTED SUBGRADE.

**NOTES**

- A. WATER FEATURE DETAIL IS SCHEMATIC & PROVIDED FOR DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, REINFORCEMENT, & MATERIALS PRIOR TO CONSTRUCTION.
- B. WATER LIGHTS BY WATER FEATURE CONTRACTOR.



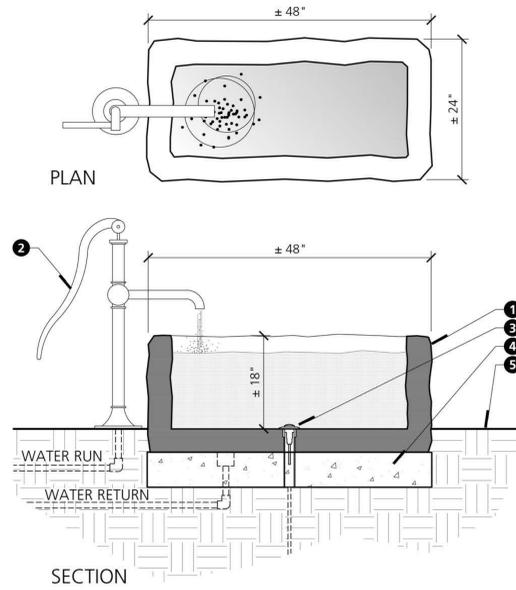
**A.4** BLACK HONED GRANITE WATER FEATURE - SECTION  
1-1/2"=1'-0"

**LEGEND**

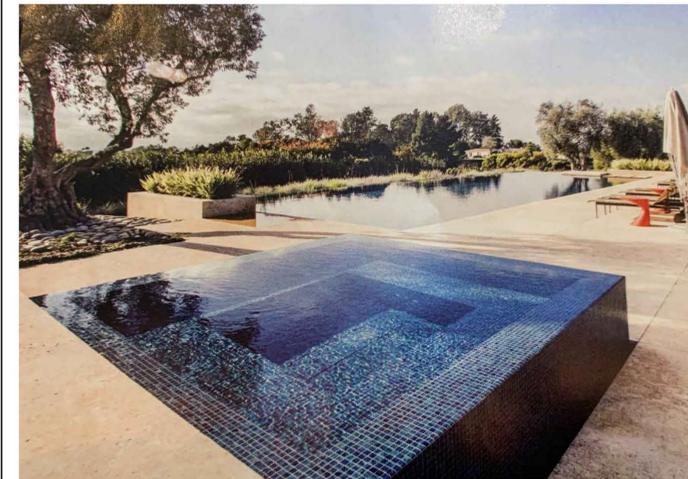
1. ANTIQUE LIMESTONE BASIN WITH CHISELED FINISH. COLOR: TO MATCH BLUE HOT SPUR HONED PAVING (LRV: 35).
2. HAND PUMP NOZZLE.
3. WATER LIGHT.
4. REINFORCED CONCRETE SUB-SLAB.
5. ADJACENT GRADE PER PLAN. COMPACTED & SLOPED AWAY FROM BASIN.

**NOTES**

- A. WATER FEATURE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS, ELECTRICAL REQUIREMENTS, PUMP SIZING & EQUIPMENT LOCATIONS.
- B. ALL EQUIPMENT SHALL BE CONCEALED FROM VIEW - CONFIRM INFRASTRUCTURE ROUTING DURING BID PROCESS.
- C. WATER FEATURE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LIGHTING TYPES, STYLES, REQUIREMENTS AND REQUIRED ASPECTS FOR LIGHT FIXTURES AND TIMERS.



**A.5** WATER FEATURE W/ HAND PUMP  
1"=1'-0"



**PS.1** RAISED SPA CHARACTER IMAGES



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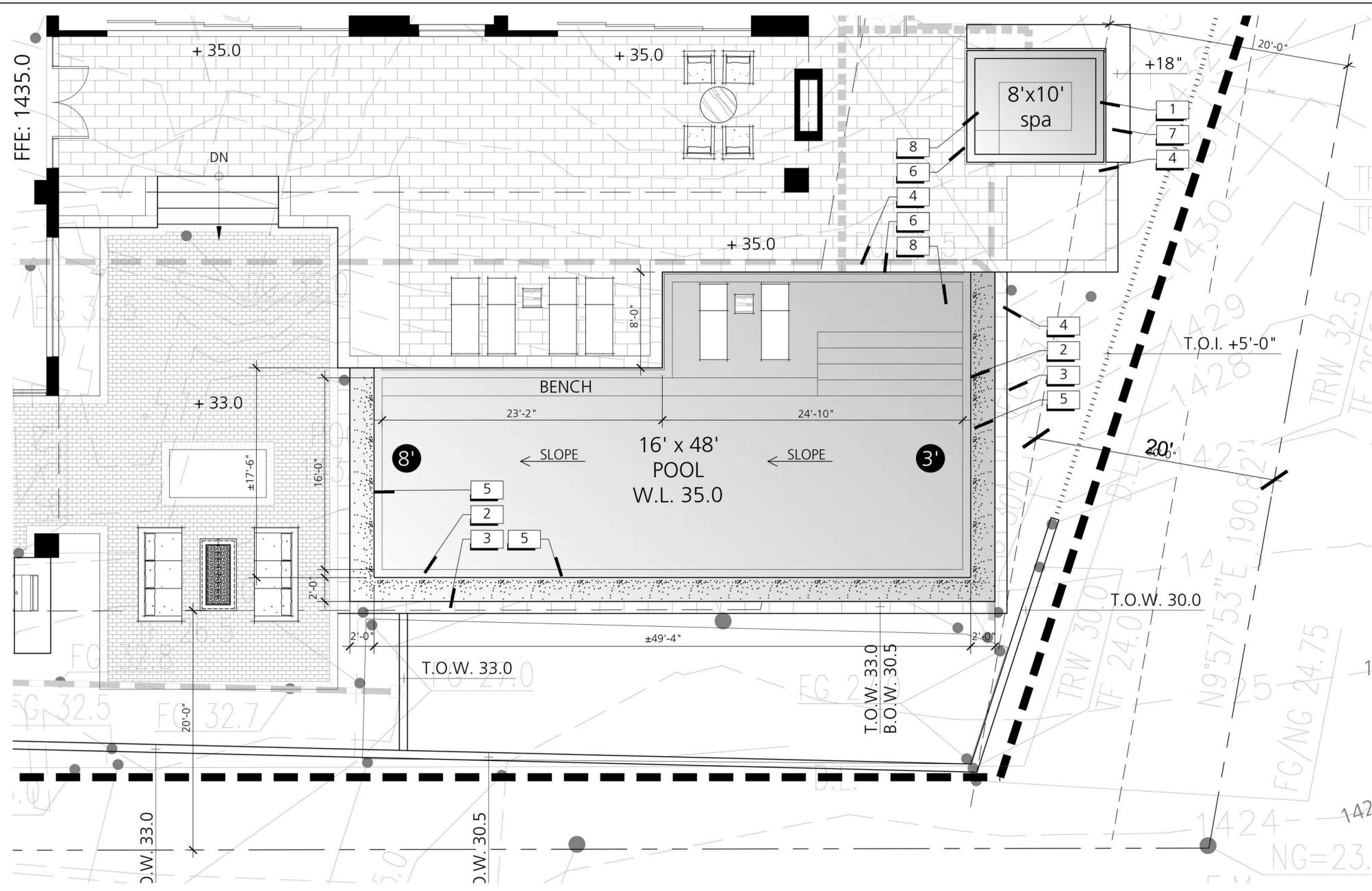
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**HD.3  
HARDSCAPE DETAILS**

SEPTEMBER 27 . 2019



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**LEGEND**

- 1 RAISED SPA - BY POOL BUILDER.
- 2 POOL WALL - BY POOL BUILDER. TILE EXTERIOR SURFACE W/ VINTAGE WOOD SERIES MIST TILE (LRV: 16).
- 3 POOL TROUGH WALL - BY POOL BUILDER. BLUE HOT SPUR HONED CAP TO MATCH ADJACENT PAVING (LRV: 35). WALL: STUCCO & PAINT TO MATCH HOME, SEE PLAN FOR HEIGHT. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- 4 2" THICK BLUE HOT SPUR HONED COPING W/ DOUBLE EASED EDGE. 1" CANTILEVER (LRV: 35).
- 5 NEGATIVE EDGE.
- 6 ZERO EDGE.
- 7 C.I.P. CONCRETE BENCH W/ BLUE HOT SPUR HONED VENEER ON ALL EXPOSED SIDES (LRV: 35).
- 8 POOL & SPA FINISH TO BE STEEL GRAY PEBBLE FINA (LRV: 18).

**NOTES:**

POOL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, SOIL AND DIG REQUIREMENTS.

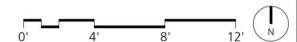
POOL CONTRACTOR SHALL VERIFY RAISED BOND BEAM REINFORCEMENT WITH BUILDER AND STRUCTURAL ENGINEER. PLANS PROVIDED SHOW INTENDED AESTHETIC.

ALL BIDS AND POOL DIRECTIVES ARE BY AND BETWEEN THE HOMEOWNER AND POOL CONTRACTOR.

POOL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR BOND BEAM AND POOL CONSTRUCTION FOR REVIEW AND APPROVAL BY BUILDER AND/OR STRUCTURAL ENGINEER. SHOP DRAWINGS SHALL ALSO BE PROVIDED FOR AESTHETIC RELATIONSHIPS, DEPTHS AND SURFACES.

POOL SAMPLES SHALL BE PROVIDED BY POOL CONTRACTOR FOR OWNER APPROVAL FOR ALL POOL FINISHES AND TILES.

**PLAN**

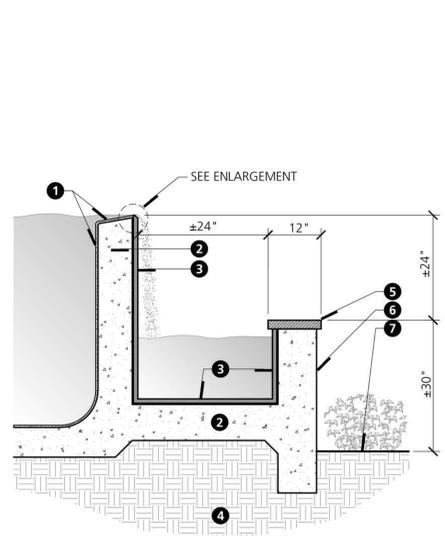


**LEGEND**

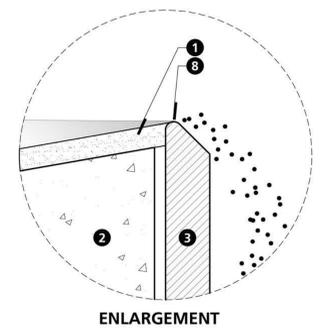
- 1. STEEL GREY PEBBLE FINA POOL INTERIOR (LRV: 18).
- 2. SHOTCRETE POOL WALL W/ WATER TROUGH RESERVOIR PER POOL BUILDER.
- 3. TILE EXTERIOR SURFACE W/ VINTAGE WOOD SERIES MIST TILE. COLOR: GRAY (LRV: 16).
- 4. COMPACTED SUB-GRADE.
- 5. 1-1/2" THICK STONE POOL COPING.
- 6. POOL TROUGH WALL - BY POOL BUILDER. STUCCO & PAINT TO MATCH HOME. PAINT COLOR: DOVE TAIL GRAY (LRV: 26).
- 7. FINISH GRADE; SLOPE AWAY FROM WALL.
- 8. PORCELAIN SURFACE BULLNOSE EDGE.

**NOTES**

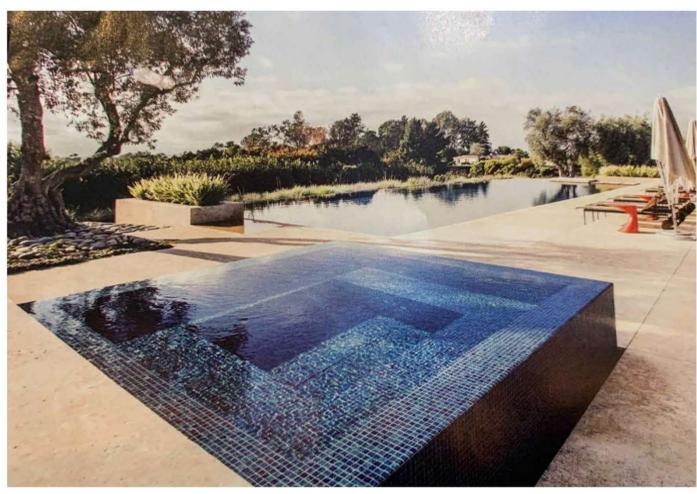
- A. DETAIL PROVIDED FOR BID PURPOSES ONLY. ALL POOL DETAILS FOR CONSTRUCTION TO BE PROVIDED BY POOL CONTRACTOR.
- B. ALL MEASUREMENTS ARE APPROXIMATE.
- C. REFER TO ENGINEER'S PLANS FOR RETAINING WALL & FOOTING SPECIFICATIONS.



**SECTION**



**ENLARGEMENT**



**PS.1** RAISED SPA CHARACTER IMAGES



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**PL.1**  
POOL/SPA PLAN



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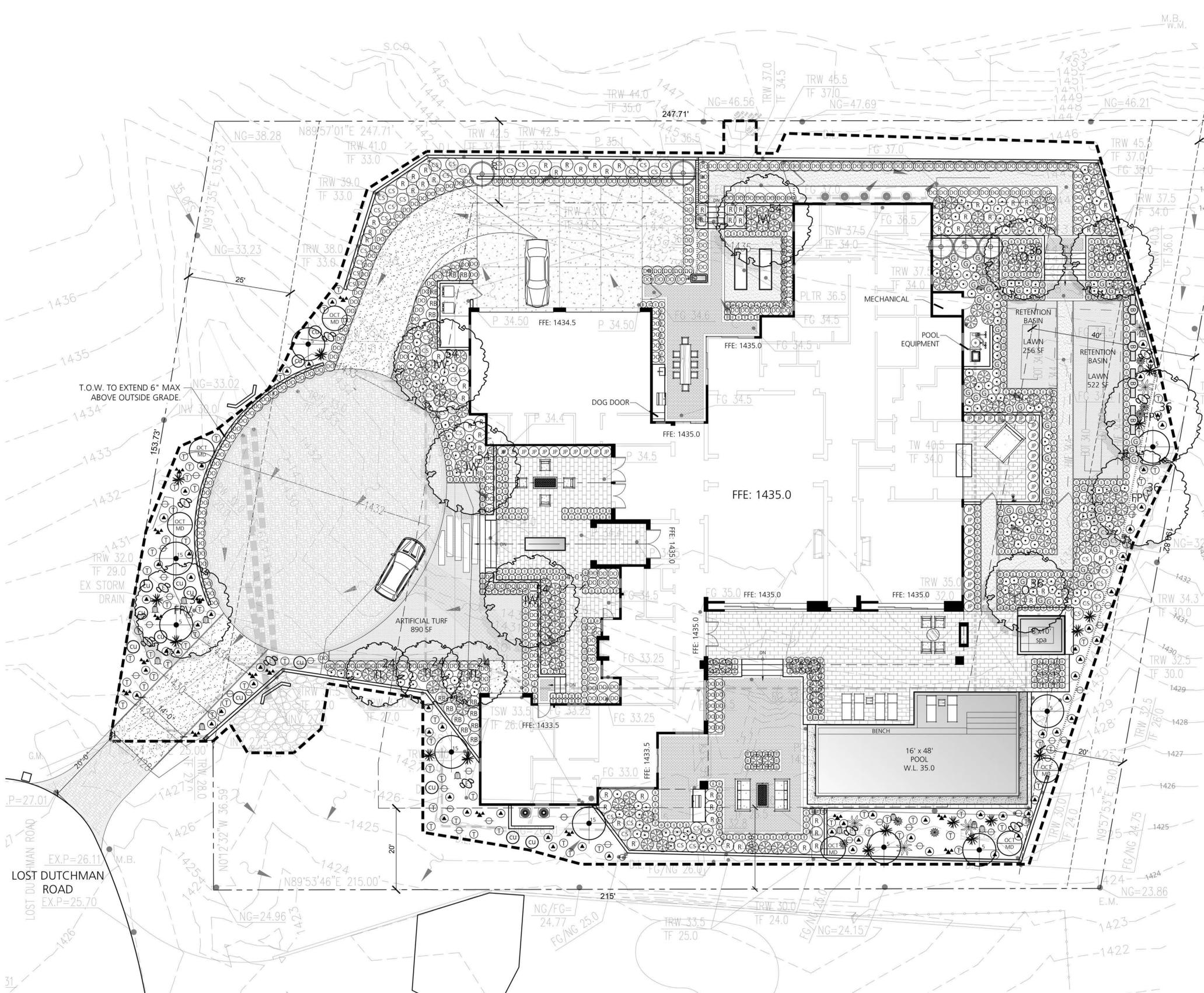
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**PL.2**  
POOL/SPA IMAGES

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**PLANT LEGEND**

SYM.	COMMON NAME BOTANICAL NAME	SIZE	QTY.	REMARKS
<b>TREES</b>				
○	FRUITLESS OLIVE <i>Olea europaea</i> 'Swan Hill'	SEE PLAN	3	-
○	IRONWOOD <i>Olneya tesota</i>	SEE PLAN	4	-
○	FOOTHILLS PALO VERDE <i>Parkinsonia microphylla</i>	SEE PLAN	3	-
○	TEXAS MOUNTAIN LAUREL <i>Sophora secundiflora</i>	SEE PLAN	3	-
<b>CACTI / ACCENTS</b>				
☼	MESCAL CENIZA <i>Agave colorata</i>	5 GAL	6	-
☼	MURPHY'S AGAVE <i>Agave murpheyi</i>	5 GAL	16	-
☼	WEBER'S AGAVE <i>Agave weberi</i>	5 GAL	5	-
☼	BARREL CACTUS <i>Ferocactus acanthodes</i>	5 GAL	12	-
○	OCOTILLO - MEDIUM <i>Fouquieria splendens</i>	5-9' HT.	6	-
☼	TEDDY BEAR CHOLLA <i>Opuntia bigelovii</i>	5 GAL	15	-
☼	ENGELMANN'S PRICKLY PEAR <i>Opuntia engelmannii</i>	5 GAL	10	-
<b>SHRUBS</b>				
△	TRIANGLE LEAF BURSAGE <i>Ambrosia deltoidea</i>	1 GAL	65	-
△	TURPENTINE BUSH <i>Ericameria laricifolia</i>	1 GAL	65	-
○	DWARF YAUPON HOLLY <i>Ilex vomitoria</i> 'Nana'	5 GAL	556	-
○	CHUPAROSA <i>Justicia californica</i>	5 GAL	13	-
○	CREOSOTE <i>Larrea tridentata</i>	5 GAL	6	-
○	CREOSOTE <i>Larrea tridentata</i>	15 GAL	3	-
○	FERN LEAF LAVENDER <i>Lavandula pinnata</i>	5 GAL	185	-
○	RIO BRAVO SAGE <i>Leucophyllum langmaniae</i> 'Rio Bravo'	5 GAL	15	-
○	CIMARRON SAGE <i>Leucophyllum zygophyllum</i> 'Cimarron'	5 GAL	46	-
○	JAPANESE PRIVET <i>Ligustrum japonicum</i>	5 GAL	37	-
○	DWARF OLLIE <i>Olea europaea</i> 'Montra'	5 GAL	266	-
○	ICEBERG ROSE <i>Rosa floribunda</i> 'Iceberg'	5 GAL	141	-
○	TUSCAN BLUE ROSEMARY <i>Rosmarinus officinalis</i> 'Tuscan Blue'	5 GAL	63	-
○	TRAILING GERMANDER <i>Teucrium chamaedrys</i> 'Prostratum'	5 GAL	45	-
○	ARABIAN LILAC <i>Vitex trifolia</i> 'Purpurea'	5 GAL	5	-
<b>VINES</b>				
○	BOUGAINVILLEA 'BARBARA KARST' <i>Bougainvillea</i> 'Barbara Karst'	5 GAL	4	ESPALIER
<b>ANNUALS</b>				
○	DESERT MARIGOLD <i>Baileya multiradiata</i>	1 GAL	34	-

1 10.03.19 PV HILLSIDE COMMENTS



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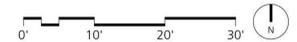
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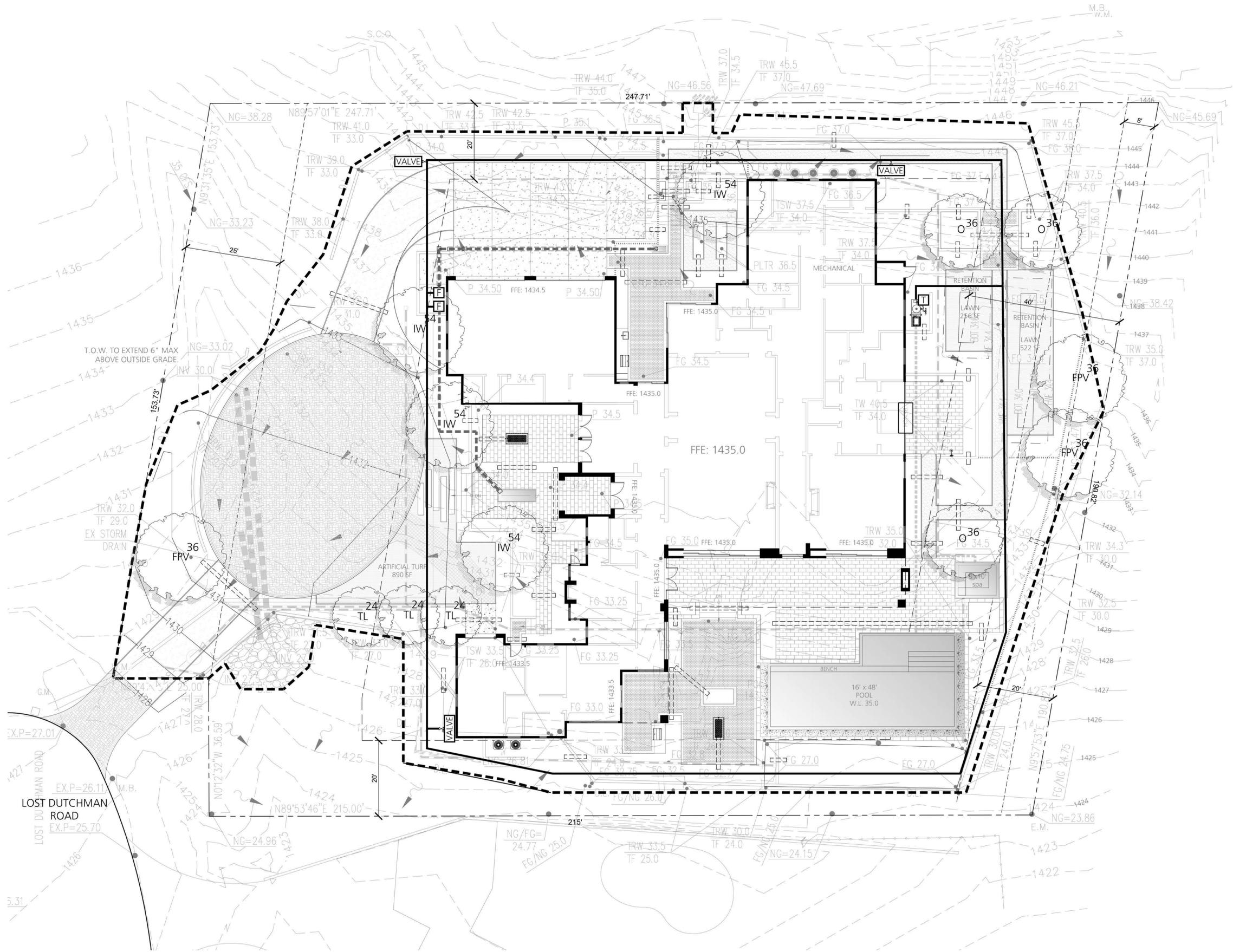
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**PP.1  
PLANTING PLAN**

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**INFRASTRUCTURE LEGEND**

- PVC MAINLINE
- VALVE VALVE BUILDUP - GENERAL LOCATION
- T IRRIGATION TIMER
- IRRIGATION SLEEVING
- POOL EQUIPMENT (REFER TO POOL PLANS)
- F FOUNTAIN PUMP (IN TAN VALVE BOX)  
ELECTRICAL TO BE PROVIDED BY BUILDER. EXACT LOCATION TO BE FIELD VERIFIED ON-SITE W/ BUILDER & ELECTRICIAN.
- POOL/SPA SUPPLY LINE (REFER TO POOL PLANS)
- FOUNTAIN SUPPLY LINE
- T LIGHTING TRANSFORMER  
EXACT LOCATION TO BE FIELD VERIFIED BY BUILDER & ELECTRICIAN. AT LEAST (1) 20 AMP CIRCUIT BREAKER TO BE PROVIDED TO EACH TRANSFORMER.

**NOTES:**

- ALL ABOVE-GROUND MOUNTED EQUIPMENT TO BE PAINTED TO MATCH THE BODY COLOR OF THE WALL UPON WHICH THE EQUIPMENT IS MOUNTED, & SUFFICIENTLY SCREENED BY PLANTING WHERE EXPOSED TO VIEWS.
- ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM ARCHITECTURAL STRUCTURE.
- VERIFY ALL DRAIN PIPE TO HAVE POSITIVE DRAINAGE PRIOR TO BURYING.
- PERFORATED DRAIN PIPE TO BE WRAPPED W/ CLOTH SOCK & BURIED IN GRAVEL.
- CONTRACTOR TO ENSURE ALL WEEP HOLES & PIPING TO DAYLIGHT THROUGH EXTERIOR WALLS NO HIGHER THAN 4" ABOVE THE EXTERIOR FINISHED GRADE & SCREENED BY PLANTING TO REMOVE FROM ANY VIEW.
- WATER FEATURE EQUIPMENT/ PUMPS TO BE HIDDEN FROM VIEW. LOCATIONS SHOWN ARE SCHEMATIC & SHALL BE VERIFIED FOR ELECTRICAL/SIZE REQUIREMENTS BY WATER FEATURE CONTRACTOR.

1 10.03.19 PV HILLSIDE COMMENTS



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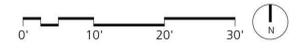
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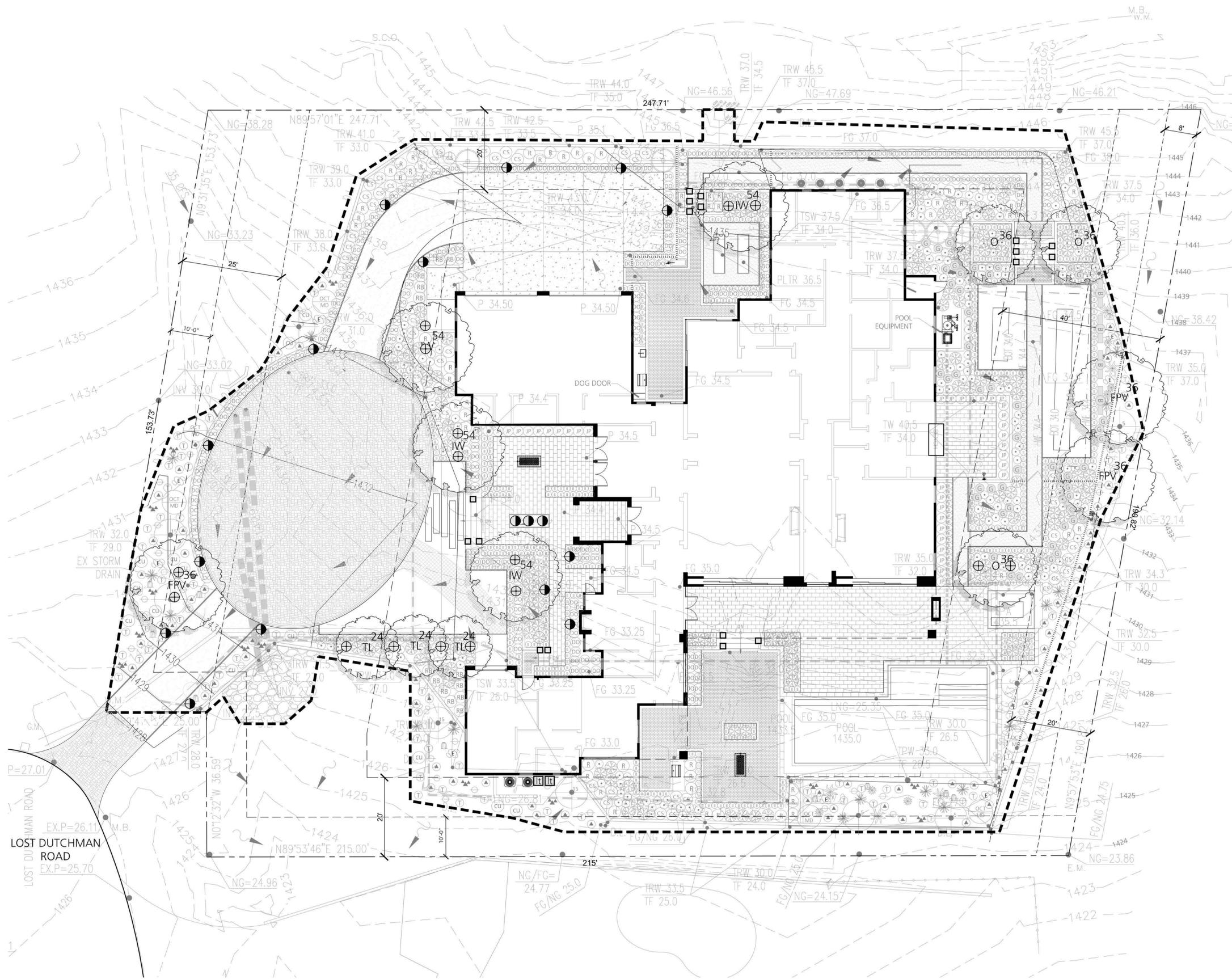
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**II.1**  
IRRIGATION &  
INFRASTRUCTURE PLAN

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### FIXTURE SCHEDULE

QTY.	SYM.	TYPE	FIXTURE MANUF.	MODEL FINISH	WATTS	LUMENS
16	⊕	UP LIGHT	NUIT PARTENAIRE FX LUMINAIRE	NP-3LED BRONZE	4.2	135
14	●	PATH LIGHT	HAUT COULEUR FX LUMINAIRE	HC-LED COPPER	2.0	39
18	■	STEP LIGHT	PETT OEL FX LUMINAIRE	PO-1LEDRD-BZ BRONZE METALLIC	2.0	39
3	○	WATER LIGHT	MICROBRITE PENTAIR	620429	12	100
51		GRAND TOTAL				

### NOTES

- SYMBOLS IN THIS LEGEND ARE REPRESENTATIVE ONLY. INSPECTION TO BE PERFORMED BY LIGHTING DESIGNER AT COMPLETION OF INSTALLATION.
- LOCATE ALL LIGHT FIXTURES OUT OF SIGHT AND SCREEN WITH PLANTS FROM VIEW.
- ELECTRICAL SERVICE GENERAL CONTRACTOR TO PROVIDE (2) - 30AMP SERVICE PER 'POD' LOCATION 36" HT. ABOVE GRADE. 3 SIGNAL WIRES TO BE PROVIDED TO EACH LOCATION.
- STEP LIGHTS TO BE PROVIDED BY BUILDING CONTRACTOR.
- ALL ABOVE-GROUND MOUNTED EQUIPMENT TO BE PAINTED TO MATCH THE BODY COLOR OF THE WALL UPON WHICH THE EQUIPMENT IS MOUNTED, AND SUFFICIENTLY SCREENED BY PLANTING WHERE EXPOSED TO VIEWS.
- CONTRACTOR TO ENSURE ALL WEEP HOLES AND PIPING TO DAYLIGHT THROUGH EXTERIOR WALLS NO HIGHER THAN 4" ABOVE THE EXTERIOR FINISHED GRADE AND SCREENED BY PLANTING TO REMOVE FROM ANY VIEW.

### TRANSFORMER SCHEDULE

QTY.	SYM.	TYPE	TRANSFORMER LOCATION (WALL MOUNTED) 300 WATT CIRCUITS PER LOCATION.	MANUF. FX LUMINAIRE	MODEL LX-300-PC
2	⊞	TRANSFORMER LOCATION (WALL MOUNTED) 300 WATT CIRCUITS PER LOCATION.			

**EXISTING DISTURBED AREA: 28,515 S.F.**  
**PROPOSED DISTURBED AREA: 22,519 S.F.**

MAXIMUM UP LIGHTS ALLOWED (1 LIGHT PER 1,000 S.F. OS DISTURBED AREA).  
**UP LIGHTS ALLOWED: 22**  
 PROPOSED UP LIGHTS: 16

1 10.03.19 PV HILLSIDE COMMENTS



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SUITE 100  
SCOTTSDALE, ARIZONA 85257  
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**PETERSON  
RESIDENCE**

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PARADISE VALLEY, ARIZONA 85253

**LP.1**  
LIGHTING PLAN

SEPTEMBER 27, 2019

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1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



FXLuminaire

LED Path Lights

ORDERING INFORMATION

LED



The HC offers soft, efficient, and safe lighting solutions for pathways of all shapes, sizes, and locations. With unique and sleek, full design, durability, and outstanding efficiency, it is the ideal choice for a wide array of path lighting scenarios.

HC: Path Light

**FACTORY INSTALLED OPTIONS (TOP ASSEMBLY): Order 1 + 2**

**STEP DESCRIPTION CODE**

1 TOP ASSEMBLY HC-LED/A

2 TOP FINISH APT-AT1, CL, NP, WC, PK, AL, BC, DG, WL, VS, SB, FB

EXAMPLE: HC-LED/A8-BC-AP-AT1-CL-NP-WC-PK-AL-BC-DG-WL-VS-SB-FB

**FACTORY INSTALLED OPTIONS (RISER ASSEMBLY): Order 1 + 2 (optional) + 3 + 4 + 5**

**STEP DESCRIPTION CODE**

1 RISER TYPE P

2 OPTIONAL ZD ZD (Refer to the Laser page in the Lighting Control section)

3 LAMP LED (50,000 hrs avg)

4 RISER HEIGHT BR4, UBR4, BR4, ZBR4, SBR4 (inches)

5 FINISH APT-AT1, CL, NP, WC, PK, AL, BC, DG, WL, VS, SB, FB

EXAMPLE: P-2D-LED-UBR4-AT1-Riser Type - ZD Option - 1 LED Board - 18" Riser - Antique Bronze Finish

**FIELD INSTALLED OPTIONS: Order Individually**

**Mounting Options:**

Long Slot Spike (2000SBR4000) 2.5" x 10"

Super Slot Spike (2000SBR4000) 2.5" x 10"

Super-Box (2.5" x 10" x 2.5" x 10")

Post Mount (2000SBR4000) 2.5" x 10"



**PHOTOMETRICS:**

Beam Angle: 120°

Beam Width: 10.4" @ 100'

Beam Diameter: 10.4" @ 100'

Beam Height: 100'

Beam Area: 107.6 sq ft @ 100'

Beam Volume: 10,760 cu ft @ 100'

- METALS**
- AB - Antique Bronze
  - AT - Antique Tumbled
  - CL - Copper
  - NP - Nickel Plate
  - WC - White Brass
  - PK - Pink White
  - AL - Anodized
  - BC - Bronze Metallic
  - DG - Desert Granite
  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black
- POWDER COAT**
- WS - White Gloss
  - FW - Flat White
  - AL - Anodized
  - BZ - Bronze Metallic
  - DG - Desert Granite
  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black

HC: Path Light

NUMBER OF LEADS:	1
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt
USEFUL LED LIFE (ELT85):	50,000 hrs avg
INPUT VOLTAGE:	120 to 270V
VA TOTAL (Use this number to size the transformer):	2.4
WATTS USED:	2.0
LUMENS PER WATT (EFFICIENCY):	19.4
MAX LUMENS:	39
CCT (Ra):	90



Learn more about FX Luminaire path lights. Visit: [fx.com/products](http://fx.com/products)

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PATH LIGHT NTS

FXLuminaire

LED Wall Lights

ORDERING INFORMATION

LED



The design of the PO provides a glare-free illumination that allows guests to transition from space to space in comfort and safety. The LED Executive design offers efficient exterior lighting in wall or light type outputs to match the exact look and function required. The PO is available in four unique shapes for maximum design flexibility.

PO: Wall Lights

**FACTORY INSTALLED OPTIONS: Order 1 + 2 + 3 + 4**

**FEATURE CODE LAMP CODE FINISH CODE FINISH OPTIONS**

1 PO 2 LED (50,000 hrs avg) 3 BS (Black) 4 BK (Black options for night)

8T (Spot)

8S (Spot)

8Q (Spot)

EXAMPLE: PO-LED-BS-BK-PO-1-LED - Round - Bronze Metallic Finish

The PO includes a LED board, choice of Anodized Finish and a mounting conduit.

**PHOTOMETRICS:**

Beam Angle: 120°

Beam Width: 10.4" @ 100'

Beam Diameter: 10.4" @ 100'

Beam Height: 100'

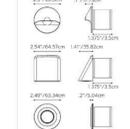
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Beam Volume: 10,760 cu ft @ 100'

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  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black
- POWDER COAT**
- WS - White Gloss
  - FW - Flat White
  - AL - Anodized
  - BZ - Bronze Metallic
  - DG - Desert Granite
  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black

PO: Wall Lights

NUMBER OF LEADS:	1
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt
USEFUL LED LIFE (ELT85):	50,000 hrs avg
INPUT VOLTAGE:	120 to 270V
VA TOTAL (Use this number to size the transformer):	2.4
WATTS USED:	2.0
LUMENS PER WATT (EFFICIENCY):	20
MAX LUMENS (based on PO-8T):	39
CCT (Ra) (based on PO-8T):	90



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FXLuminaire

STEP LIGHT NTS

**LX - TRANSFORMER**

Learn - in - new / Bright

The LX Transformer is the industry's first fully digital lighting control transformer. Our integrated LCD screen provides you with current time, photocell, function, and line output readouts. You can utilize the internal clock as a timer, or simply use the included photocell, or use them in harmony to accommodate your preferred schedule. The LX Transformer will change the way you use your outdoor landscape lighting.

**PHOTOMETRICS:**

Beam Angle: 120°

Beam Width: 10.4" @ 100'

Beam Diameter: 10.4" @ 100'

Beam Height: 100'

Beam Area: 107.6 sq ft @ 100'

Beam Volume: 10,760 cu ft @ 100'

**FEATURES:**

- Fully Digital Control: All functions are controlled by the integrated LCD screen for a complete real-time output of functions.
- Active Load Draw Bar: Digital Readout of system load usage displayed as a bar in 10% increments.
- Real Time Photocell Readout: Always know what the photocell is sensing with its easy to identify sun and moon.
- Internal Clock and Timing: Adjust lights to illuminate at a given time of day or use the photocell in conjunction.
- Status LEDs: Displays readouts and readiness of the 120v, External Function, Photocell activity, and 12V output.
- Backlit Display: Backlit display panel allows you to see status at night.

**2" Conduit Pathway:** Leave the transformer mounted and install conduit to the system using the handy removable front conduit pathway.

**12V Photocell Included & Preinstalled:** Smaller size with less wiring.

**Petite Box:** Houses all power & control functions.

**Multiple Color Options:** Stainless Steel or Powder Coat Gray.

**Removable Door:** Allows easy conduit installation and "no bulk" noise wiring.

**Flip Up Display:** Display flips up and pushes out of the way to access all wiring.

**UL 1838 Rated:** For safety purposes, this standard is required by the NEC for landscape lighting systems and components.

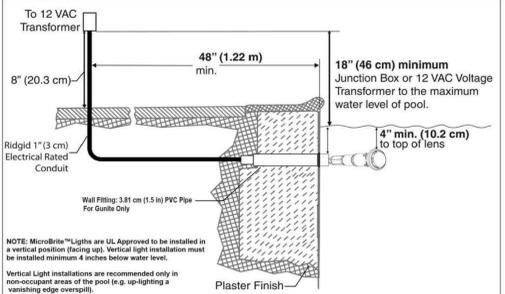
TRANSFORMER NTS



DYNAMIC BRILLIANCE IN A COMPACT, EASY-INSTALLING PACKAGE

Give your pool the ultimate lighting upgrade. MicroBrite Color and White LED Lights provide exceptional brilliance, lighting uniformity and amazing colors. For new pool and spa designs, their compact size allows the freedom to add dramatic lighting in places never before possible. Let your imagination take you to brighter places!

- The brightest, most vibrant ultra-compact white and colored LED light available.
- Fits where others don't... Just .5 inches long to fit into narrow walls and tight spaces.
- Add visual excitement along steps, sun shelves, and in recesses. Or install facing up in water as shallow as 4 inches.
- Versatile upgrade for many older fiber optic lighting systems.
- Premium-quality light with no shadows or hot spots.
- Connects to any Pentair automation system and the Pentair IntelliBrite® Controller.
- Fast and simple for professional installation. No niche required.



**NOTE:** MicroBrite® Lights are UL Approved to be installed in a vertical position (facing up). Vertical light installation must be installed minimum 4 inches below water level.

Vertical light installations are recommended only in non-occupant areas of the pool (e.g. up-lighting a vanishing edge overwall).

Figure 1.

SPECIFICATIONS

ITEM #	DESCRIPTION	COLOR	WATT	12V	14W
620424	MicroBrite LED Light	Color LED	50	12V	14W
620425	MicroBrite LED Light	Color LED	100	12V	14W
620426	MicroBrite LED Light	Color LED	150	12V	14W
620428	MicroBrite LED Light	White LED	50	12V	14W
620429	MicroBrite LED Light	White LED	100	12V	14W
620430	MicroBrite LED Light	White LED	150	12V	14W

WATER LIGHT NTS

FXLuminaire

LED Down Lights

ORDERING INFORMATION

LED



To illuminate a space from above without the need for a large mount, a LE can be hung to spotlight areas. Using a hook design, with the included four color filters, illuminate a seating area, under a table umbrella or even from the branch of a tree.

LE: Down Light

**FACTORY INSTALLED OPTIONS: Order 1 + 2 + 3**

**FEATURE CODE LAMP CODE FINISH OPTIONS**

1 LE 2 LED (50,000 hrs avg) 3 BK (Black options for night)

EXAMPLE: LE-LED-BK-LE-1-LED - Bronze Metallic Finish

The LE includes a LED board, choice of finish and a stainless steel hanging code and 20" R. wood white Super Slot Spike.

**PHOTOMETRICS:**

Beam Angle: 120°

Beam Width: 10.4" @ 100'

Beam Diameter: 10.4" @ 100'

Beam Height: 100'

Beam Area: 107.6 sq ft @ 100'

Beam Volume: 10,760 cu ft @ 100'

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  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black
- POWDER COAT**
- WS - White Gloss
  - FW - Flat White
  - AL - Anodized
  - BZ - Bronze Metallic
  - DG - Desert Granite
  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black

LE: Down Light

NUMBER OF LEADS:	1
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt
USEFUL LED LIFE (ELT85):	50,000 hrs avg
INPUT VOLTAGE:	120 to 270V
VA TOTAL (Use this number to size the transformer):	2.4
WATTS USED:	2.0
LUMENS PER WATT (EFFICIENCY):	22.6
MAX LUMENS:	55
CCT (Ra):	80 R



Learn more about FX Luminaire down lights. Visit: [fx.com/products](http://fx.com/products)

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VINE LIGHT NTS

FXLuminaire

LED Up Lights

ORDERING INFORMATION

LED



The NP is our most versatile LED up light, and is engineered to accommodate all aspects of your up-lighting needs. By coupling the proper light intensity with one of the provided color filters, your designer can illuminate the NP to beautifully enhance every landscape feature.

NP: Up Light

**FACTORY INSTALLED OPTIONS: Order 1 + 2 + 3 (optional) + 4**

**FEATURE CODE LAMP CODE FINISH CODE FINISH OPTIONS**

1 NP 2 LED (50,000 hrs avg) 3 LS (Long Slotted) 4 BK (Black options for night)

8 LED (50,000 hrs avg, 40 hours)

8 LED (50,000 hrs avg, 40 hours)

8 LED (50,000 hrs avg, 40 hours)

**FIELD INSTALLED OPTIONS: Order Individually**

**Mounting Options:**

Super Slot Spike (2000SBR4000) 2.5" x 10"

Long Slot Spike (2000SBR4000) 2.5" x 10"

Super-Box (2.5" x 10" x 2.5" x 10")

Post Mount (2000SBR4000) 2.5" x 10"



**PHOTOMETRICS:**

Beam Angle: 120°

Beam Width: 10.4" @ 100'

Beam Diameter: 10.4" @ 100'

Beam Height: 100'

Beam Area: 107.6 sq ft @ 100'

Beam Volume: 10,760 cu ft @ 100'

- POWDER COAT**
- WS - White Gloss
  - FW - Flat White
  - AL - Anodized
  - BZ - Bronze Metallic
  - DG - Desert Granite
  - WL - Wheelbarrow
  - VS - Verde Spectra
  - SB - Sedona Brown
  - FB - Flat Black

NP: Up Light

NUMBER OF LEADS:	1	3	6	9
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt	30 Watt	60 Watt	90 Watt
USEFUL LED LIFE (ELT85):	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg
INPUT VOLTAGE:	120 to 270V	120 to 270V	120 to 270V	120 to 270V
VA TOTAL (Use this number to size the transformer):	2.4	4.5	10.5	13.5
WATTS USED:	2.0	6.2	16.1	11.2
LUMENS PER WATT (EFFICIENCY):	25.4	31	31.8	31.1
MAX LUMENS:	52	115	279	357
CCT (Ra):	68.5	71.0	70.2	67.5



Learn more about FX Luminaire up lights. Visit: [fx.com/products](http://fx.com/products)

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UP LIGHT NTS

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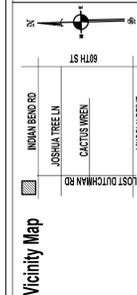
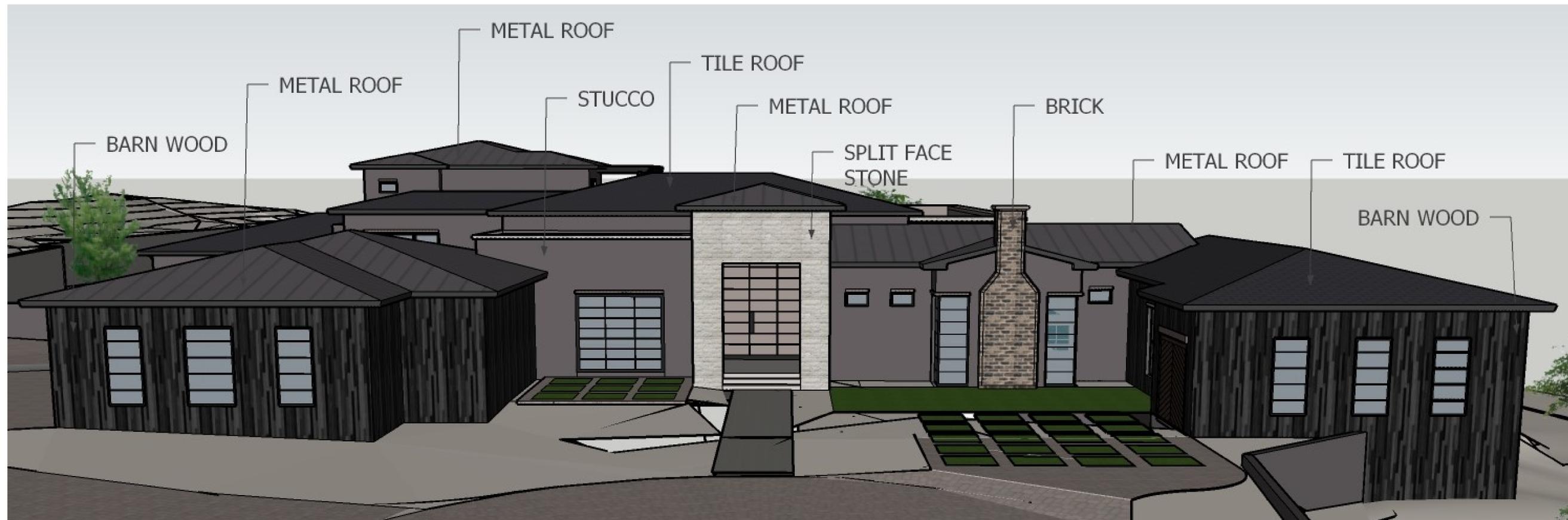
PETERSON RESIDENCE

6837 NORTH LOST DUTCHMAN ROAD  
PARADISE VALLEY, ARIZONA 85253

LC.1 LIGHTING CUTSHEET

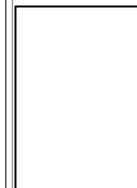
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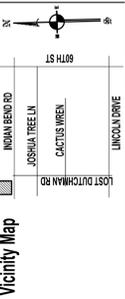
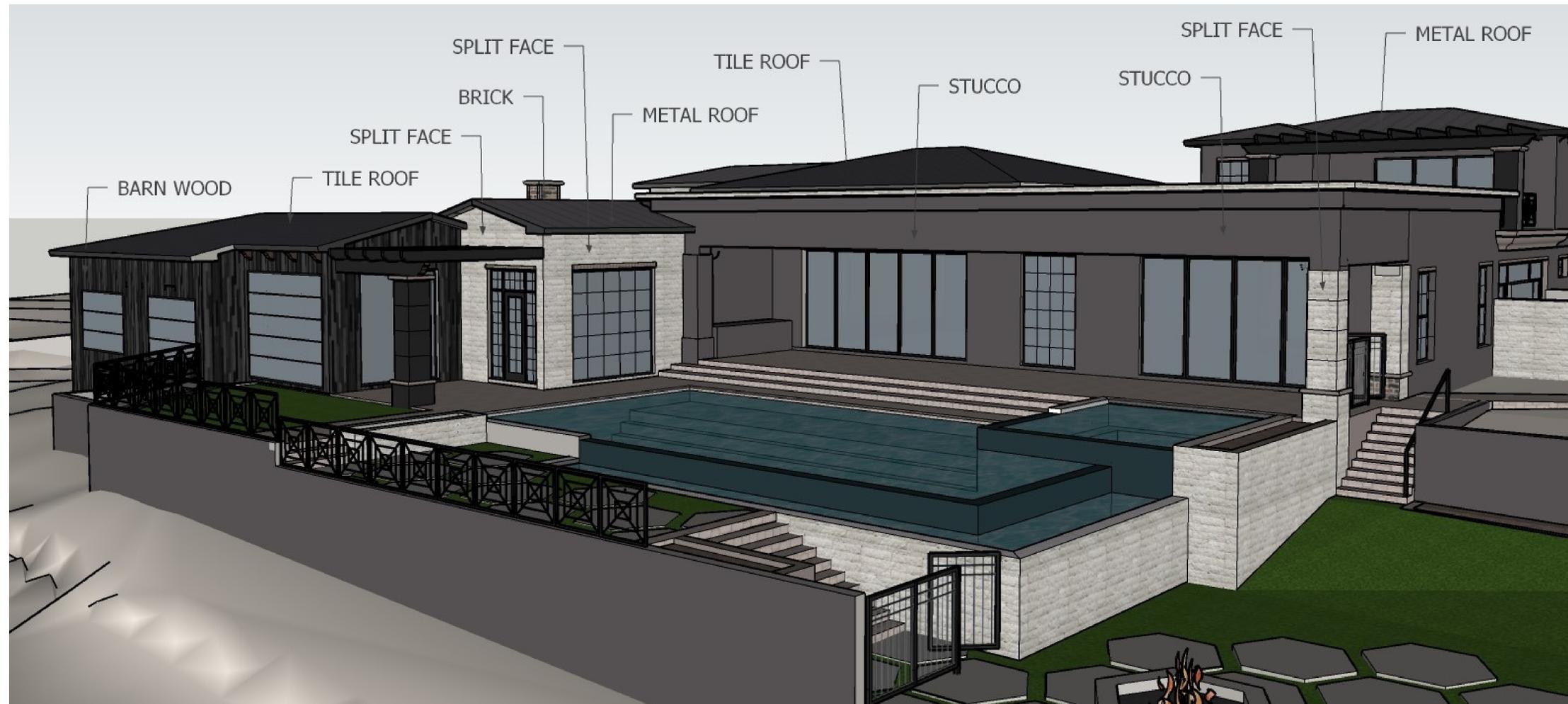
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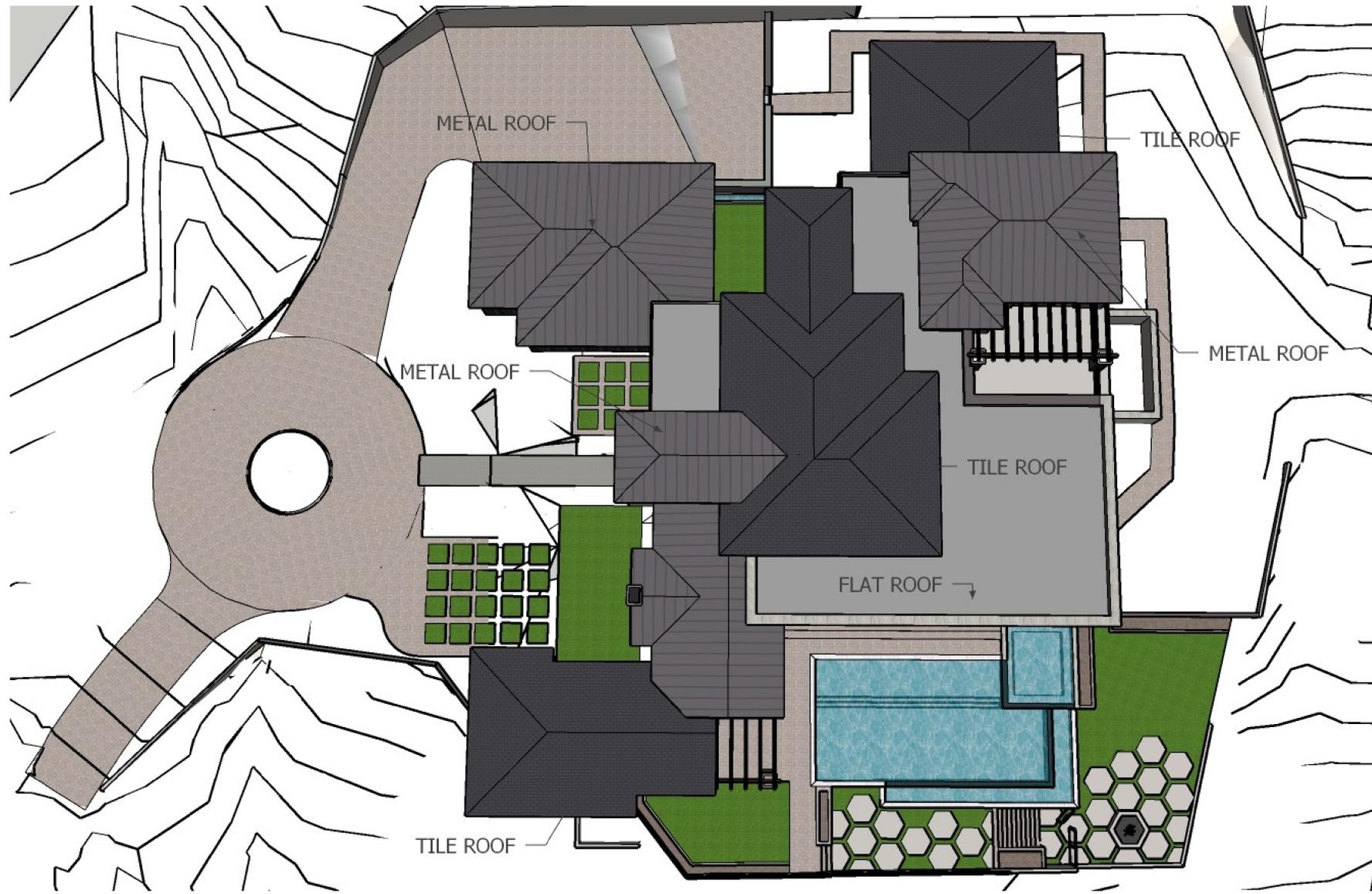
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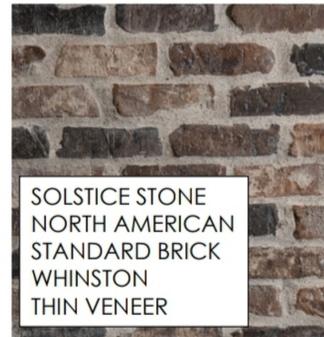
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 REGAL AMERICAN HOMES



STUCCO: DOVETAIL GRAY

FLAT ROOF: DOVETAIL GRAY



SOLSTICE STONE  
NORTH AMERICAN  
STANDARD BRICK  
WHINSTON  
THIN VENEER



BLUE HOT SPUR SPLIT FACE



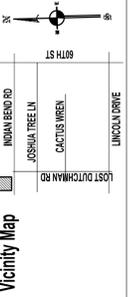
BORAL ROOFING  
STONE MOUNTAIN  
DARK  
SAXONY SLATE



SOLSTICE STONE  
ELEMENTS  
VINTAGE WOOD SERIES  
MIST



METAL ROOF  
MATTE BLACK



Vicinity Map

**PROPERTY ADDRESS**  
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