



# Town of Paradise Valley

6401 E Lincoln Dr  
Paradise Valley, AZ 85253

## Meeting Notice and Agenda Hillside Building Committee

*Chair Scott Jarson, Sue-Meng Lau, Blair Portigal*

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Wednesday, April 15, 2026

8:00 AM

Town Hall Boardroom

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### Committee Members

*Chair Scott Jarson, Blair Portigal, Sue-Meng Lau, William Nassikas, Pamela Georgelos,  
Charles Covington*

#### 1. Call to Order

*Notice is hereby given that members of the Committee will attend either in person or by telephone conference call, pursuant to A.R.S. §38-431(4).*

#### 2. Executive Session

*The Committee may convene into an executive session at one or more times during the meeting as needed to confer with the Town Attorney for legal advice regarding any of the items listed on the agenda as authorized by A.R.S. §38-431.03.A.3.*

#### 3. Application Review

*The Committee may take action on these items.*

#### 4. Staff Reports

##### A. [26-084](#)

**A Continuation of a Solar Combined Review for new rooftop solar panels at 7150 N 64th Place (APN 174-52-010).**

**Attachments:**

[A. Staff Report - Continuation](#)

[B. Hillside & Vicinity Maps](#)

[C. Application](#)

[D. Plans](#)

[E. Notification Materials](#)

[F. Standard Approval Information](#)

**B. [26-085](#) Concept Review for a Major Remodel  
4628 East Crystal Lane (APN 169-11-043)**

**Attachments:** [A. Staff Report](#)  
[B. Hillside & Vicinity Maps](#)  
[C. Application](#)  
[D. Plans](#)  
[E. Notification Materials](#)

## 5. Committee Reports

## 6. Next Meeting Date

*The next Hillside Building Committee meeting dates are tentatively scheduled for Wednesday, December 14, 2016 at 8:00 a.m. and Wednesday, January 11, 2017 at 8:00 a.m.*

## 7. Adjournment

*AGENDA IS SUBJECT TO CHANGE*

*\*Notice is hereby given that pursuant to A.R.S. §1-602.A.9, subject to certain specified statutory exceptions, parents have a right to consent before the State or any of its political subdivisions make a video or audio recording of a minor child. Meetings of the Planning Commission are audio and/or video recorded, and, as a result, proceedings in which children are present may be subject to such recording. Parents in order to exercise their rights may either file written consent with the Town Clerk to such recording, or take personal action to ensure that their child or children are not present when a recording may be made. If a child is present at the time a recording is made, the Town will assume that the rights afforded parents pursuant to A.R.S. §1-602.A.9 have been waived.*

*The Town of Paradise Valley endeavors to make all public meetings accessible to persons with disabilities. With 72 hours advance notice, special assistance can also be provided for disabled persons at public meetings. Please call 480-948-7411 (voice) or 480-483-1811 (TDD) to request accommodation to participate in the meeting.*



## Action Report

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**File #:** 26-084

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**AGENDA TITLE:**

**A Continuation of a Solar Combined Review for new rooftop solar panels at 7026 N 66th Street (APN 174-52-008).**

**STAFF CONTACT:**

Jose Mendez, 480-348-3519

**TOWN**  
*Of*  
**PARADISE VALLEY**



**STAFF REPORT**

**TO:** Hillside Building Committee

**FROM:** Chad Weaver, Community Development Director  
 Shar Johnson, Town Engineer  
 Paul Michaud, Planning Manager  
 Jose Mendez, Hillside Development Planner  
 Juan Gonzalez Jr., Hillside Associate Engineer

**DATE:** April 15, 2026

**DEPARTMENT:** Community Development Department  
 Jose Mendez, (480)348-3519

**AGENDA TITLE:**  
**Solar Combined Review - New Solar**  
 Tesla Solar  
 7150 N 64th Place (APN 174-52-010)  
 #HILL-26-06

**RECOMMENDATION:**  
 Staff recommends the Hillside Building Committee to review and **approve** Case #HILL-26-06, a *continuation* from the March 11, 2026 meeting for a request by applicant Tim Willsey, on behalf of the property owners at 7150 N 64th Place, for new solar panels on a flat roof portion of the existing Single Family Residence to be hidden from view.

**BACKGROUND/DISCUSSION/SUMMARY (PROVIDED BY APPLICANT)**

At the March 11, 2026 meeting the Hillside Building Committee reviewed the proposed project to add new solar panels to the existing single-family residence. A total of 23 new solar panels were proposed to be mounted on a flat portion of the roof. That section of the roof is non-conforming in terms color and Light Reflection Value. The owner was not in attendance to answer questions and the committee discussed non-conformity and compliance with the code. In further conversation with the Building Official and Community Development Director, the flat roof area is affected by the panels in broader scope than just the supports that puncture the roof. Hence, the portion of the roof where the panels are proposed should be brought into compliance with the current Hillside Development Regulations.

Lot Data	
1. Area of Lot	1.44 ac or 62,706 SF
2. Footprint	Approximately 9,801 SF

Single Family Residence

The existing single-family residence is approximately 9,801 SF built in 2007.

Solar

The proposal is for a solar power installation of approximately 23 solar panels mounted on the flat area of the roof. The solar panels will be placed at a height no taller than 1' 6" inches. There are parapets that will help screen the panels are at a height of 1' 6" approximately.

Per code solar panels must be hidden from view when viewed from the same elevation or lower. Per *Article XXII of the Hillside Development Regulations, II. ARCHITECTURAL STANDARDS. E.: Solar panels may be allowed if they are integrated into the building design and hidden from view when viewed from the same or a lower elevation and approved by the Hillside Building Committee by a Combined Review. Solar panels may be allowed on pitched roofs when screened from the same or a lower elevation by the adjoining hillside or hillside Cut and approved by the Hillside Building Committee by a Combined Review.*

The solar panels will have black frames and the racking system will be black. The solar utility equipment, inverters and electrical disconnects will be located toward the sought east side of the home. Photo-voltaic meter and equipment on exterior wall will be painted to match the home. All site disturbances will remain the same.

**ANALYSIS:**

The proposed new roof mounted solar panel arrays on the existing single-family residence meet the requirements of the Town Code and the adopted Zoning Ordinance.

**STIPULATIONS:**

1. All improvements shall comply with the enclosed Standard Approval Information.
2. Solar panels shall be placed at the same or lower height than the existing parapet height.
3. Provide an updated finish/color for the portion of the roof where the panels will be installed. The material or color used shall not have a LRV (Light Reflective Value) greater than 38%.

**REQUIRED ACTION:**

The Hillside Building Committee must consider the facts and determine if the application complies with Article XXII - Hillside Development Regulations.

The Hillside Building Committee may take the following actions:

1. Approve the application request, subject to the stipulations noted by staff and/or the Hillside Building Committee.
2. Continue the application for further review.
3. Deny the application request if not compliant with Article XXII.

**NOTICING:**

Public notification was performed in accordance with the public hearing process. Staff received no comments.

**NEXT STEPS:**

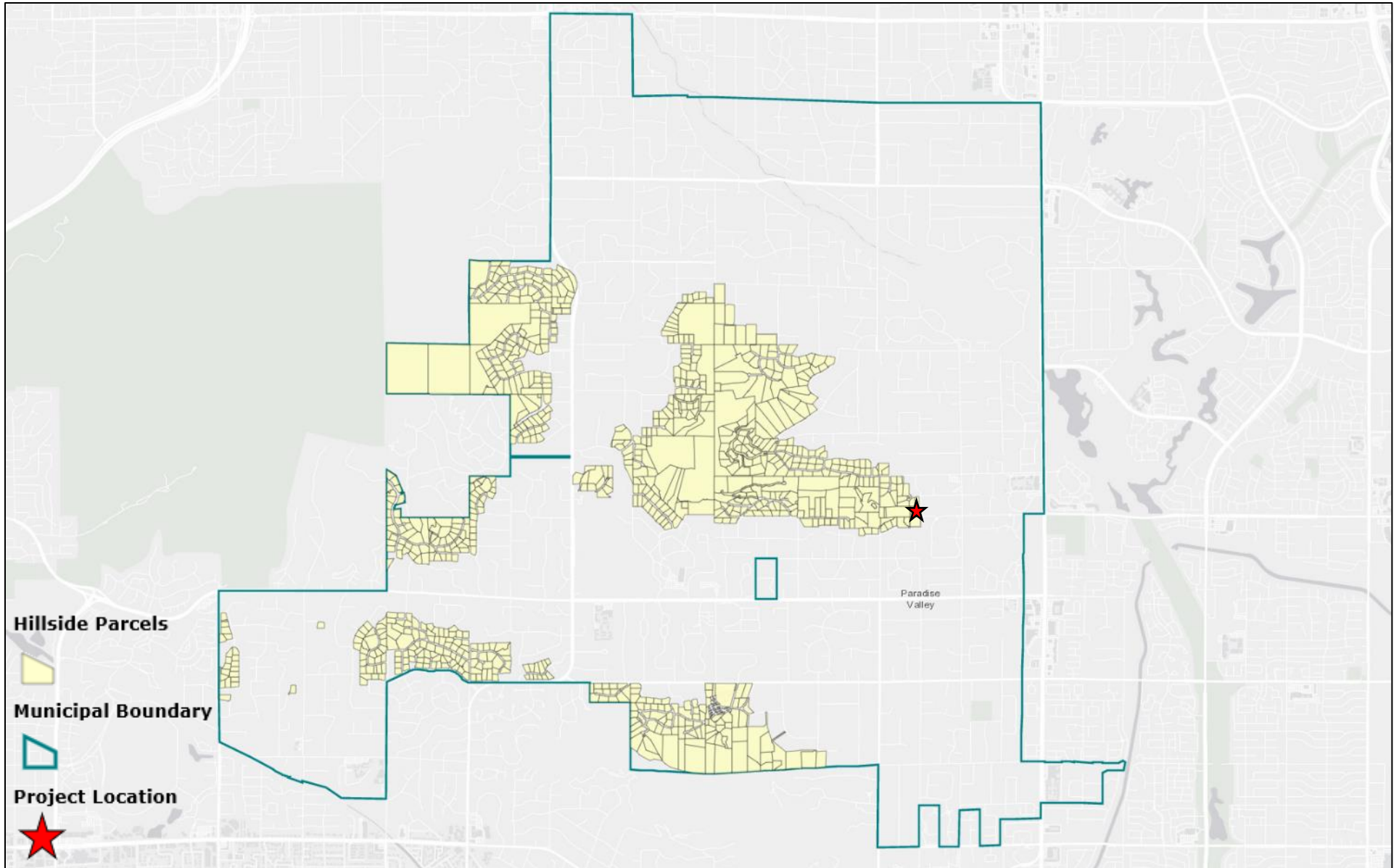
If approved the applicant shall acquire all required permits to complete the proposed scope of work. Plans submitted to the Town for permits shall comply with the plans, stipulations, and approval by the Hillside Building Committee.

**ATTACHMENTS:**

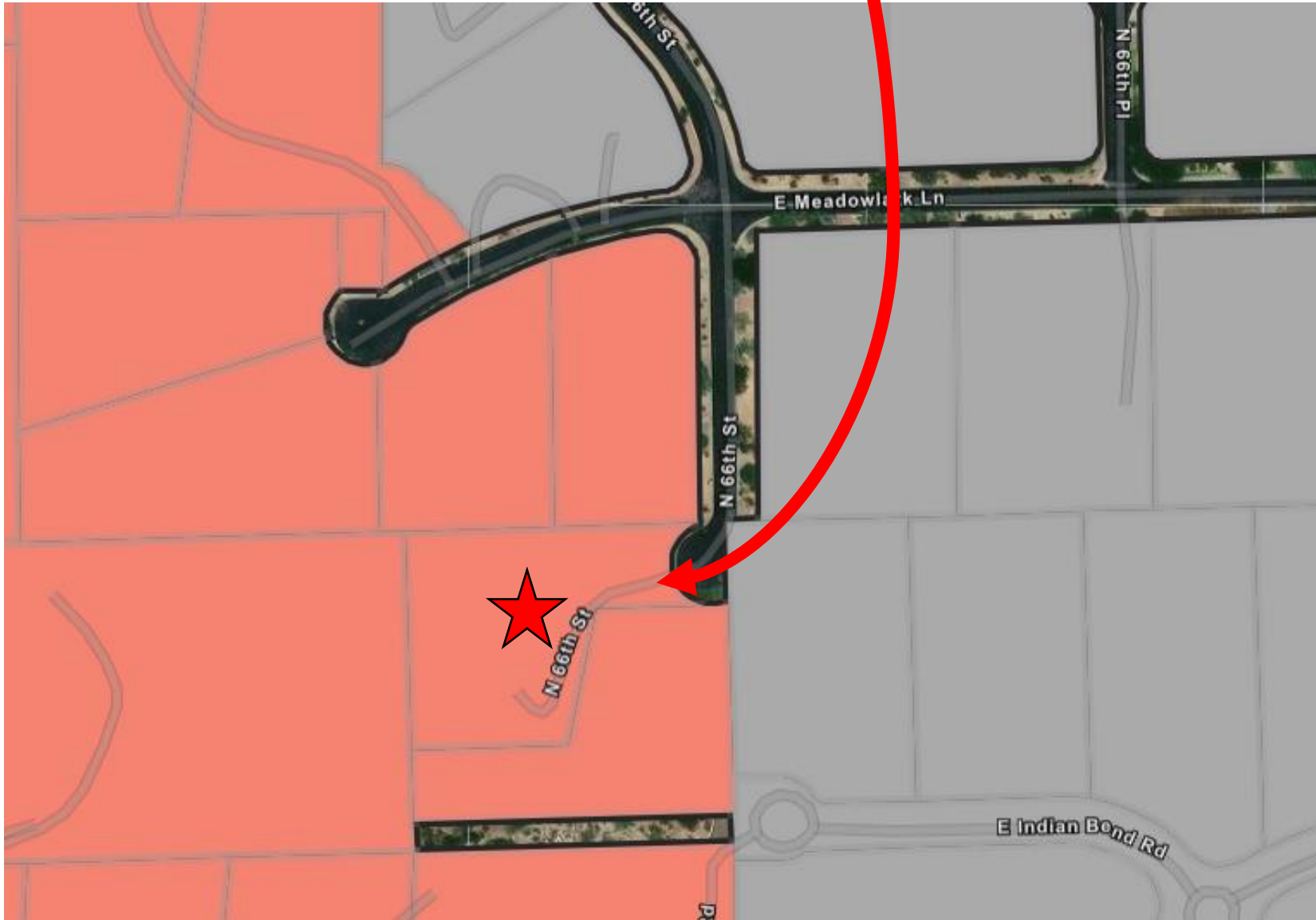
- A. Staff Report
- B. Hillside & Vicinity Maps
- C. Application
- D. Plans & Photos
- E. Notification Materials
- F. Standard Approval Information

# HILLSIDE MAP (OVERVIEW)

7026 N 66TH Street



**ZONING MAP (ZOOM)**  
**7026 N 66TH Street**



VICINITY MAP (ZOOM)

7026 N 66TH Street





# TOWN OF PARADISE VALLEY HILLSIDE DEVELOPMENT

**DATE:** \_\_\_\_\_

**SUBDIVISION NAME:** \_\_\_\_\_

**ADDRESS OF PROPERTY** \_\_\_\_\_

**ASSESSOR'S PARCEL NUMBER:** \_\_\_\_\_

**LEGAL DESCRIPTION:** \_\_\_\_\_

**ARCHITECT:** \_\_\_\_\_

NAME

PHONE NUMBER

ADDRESS

E-MAIL ADDRESS

**ENGINEER/OTHER:** \_\_\_\_\_

NAME

PHONE NUMBER

ADDRESS

E-MAIL ADDRESS

**OWNER:** \_\_\_\_\_

PRINT NAME

PHONE NUMBER

ADDRESS

E-MAIL ADDRESS

SIGNATURE OF OWNER OR REPRESENTATIVE

DATE

**SCOPE OF WORK:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SUBMITTALS NEEDED FOR SOLAR COMBINED REVIEW MEETING  
(SECTION 2207-II-D AND SECTION 2207-II-E)**

- \_\_\_\_\_ COVER SHEET WITH SITE VICINITY MAP AND PROJECT NARRATIVE OUTLINING THE LOCATION, NUMBER OF SOLAR MODUALS, ARRAYS, ETC.
  
- \_\_\_\_\_ SITE PLAN SHOWING LOCATION OF SOLAR PANELS/TILES, INVERTERS, METER, DISCONNECT, ETC.
  
- \_\_\_\_\_ CROSS SECTIONS THROUGH EACH SOLAR ARRAY SHOWING METHOD OF SCREENING AND ASSOCIATED HEIGHTS.
  
- \_\_\_\_\_ AERIAL PHOTO-LESS THAN 1-YEAR OLD SHOWING LOCATION OF SOLAR PANELS/TILES, INVERTERS, METER, DISCONNECT, ETC.
  
- \_\_\_\_\_ SITE PHOTOS FROM VARIOUS ANGLES OR VIEWS OF THE PROPERTY INCLUDING PHOTOS OF OUTDOOR EQUIEMPENT LOCATIONS. PROVIDE A KEY MAP SHOWING LOCATION OF EACH CORRESPONDING PHOTO.
  
- \_\_\_\_\_ DETAILS SHOWING TYPE OF SOLAR PANEL OR TILE USED, INVERTERS, RACKING SYSTEM, CONDUITS, METER, DISCONNECT, ETC. IDENTIFY THE COLOR AND LIGHT REFLECTIVE VALUES (LRV) OF EACH ITEM.
  
- \_\_\_\_\_ NOTIFICATION LETTERS MAILED 3 WEEKS PRIOR TO HILLSIDE MEETING. (APPLICATION AND NOTICE MUST BE REVIEWED AND DEEMED COMPLETE BY TOWN STAFF PRIOR TO MAILING). SEE SAMPLE NOTIFICATION BELOW. (2206-III-A).

ABBREVIATIONS	ELECTRICAL NOTES	JURISDICTION NOTES
<p>A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGC EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING FSB FIRE SET-BACK GALV GALVANIZED GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDG HOT DIPPED GALVANIZED I CURRENT Imp CURRENT AT MAX POWER Isc SHORT CIRCUIT CURRENT kVA KILOVOLT AMPERE kW KILOWATT LBW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NTS NOT TO SCALE OC ON CENTER PL PROPERTY LINE POI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE S STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT Vmp VOLTAGE AT MAX POWER Voc VOLTAGE AT OPEN CIRCUIT W WATT 3R NEMA 3R, RAIN TIGHT</p>	<p>1. THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER.  2. A NATIONALLY - RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3.  3. WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17.  4. EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5.  5. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B).  6. DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E).  7. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING.  8. MODULE FRAMES SHALL BE GROUNDED AT THE UL - LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE.  9. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS.</p>	<p>PV ARRAY IN COMPLIANCE WITH OPEN SPACE CRITERIA.</p> <p>1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.  2. GROUND WIRE MUST BE CONTINUOUS AND INSTALLED TO ALLOW FOR PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC 690.4(C)  3. FOLLOW MANUFACTURERS SUGGESTED INSTALLATION PRACTICES AND WIRING SPECIFICATIONS.  4. WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.</p> <p>PROJECT NARRATIVE - 7150 N 64th PI, Paradise Valley, AZ 85253</p> <p>THIS SOLAR PHOTOVOLTAIC SYSTEM INSTALLATION AT 7150 N 64th PI, Paradise Valley, AZ 85253 CONSISTS OF (23) HANWHA Q.CELLS # Q.PEAK DUO BLK ML-G10+/TS 410 ON THE EXISTING, FIRST STORY FLAT ROOF STRUCTURE. THE FOLLOWING IS A BRIEF BREAKDOWN OF THE MOUNTING PLANES (MP) UTILIZED AS WELL AS THE RESPECTIVE QUANTITY OF ARRAYS AND AZIMUTHS:</p> <p>MP1: (8) PHOTOVOLTAIC MODULES AT 96° AZIMUTH  MP2: (15) PHOTOVOLTAIC MODULES AT 230° AZIMUTH</p> <p>THE ZS RAMP MOUNTING HARDWARE WILL BE USED AND WILL BE PAINTED BLACK TO MATCH THE MODULE FRAMES. PANELS WILL NOT BE VISIBLE FROM THE FRONT OR SIDES OF THE HOME. ALL PARAPETS ARE EXISTING AND ASSUMED TO BE A MAXIMUM OF 18" HIGH. (1) DC-COUPLED TESLA POWERWALL 3 INVERTER WILL BE UTILIZED FOR THE NEW PHOTOVOLTAIC MODULES.</p>

LICENSE
<p>BLDG CL KB-01: ROC243771  ELEC CL K-11: ROC 245450</p> <p>MODULE GROUNDING METHOD: ZEP SOLAR</p> <p>AHJ: Paradise Valley</p> <p>UTILITY: Arizona Public Service Company</p>

GENERAL NOTES
<p>1. ALL WORK SHALL COMPLY WITH THE 2015 IBC AND 2015 IRC. 2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRIC CODE.</p>



INDEX			
Sheet 1	COVER SHEET		
Sheet 2	PROPERTY PLAN		
Sheet 3	SITE PLAN		
Sheet 4	PROPERTY PHOTOS		
Sheet 5	ROOF PLAN		
Sheet 6	STRUCTURAL DETAILS & UPLIFT CALCS		
Sheet 7	STRUCTURAL VIEWS		
Sheet 8	THREE LINE DIAGRAM		
Sheet 9	TRIANGLE NOTES		
Sheet 10	SITE PLAN PLACARD		
Cutsheets Attached			
REV BY DATE COMMENTS			
REV A	NAME	DATE	COMMENTS
REV B	NC	10/17/2025	*
*	*	*	*
*	*	*	*
*	*	*	*

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JOB NUMBER: JB-85216384 00
MOUNTING SYSTEM: ZS Ramp Foot
MODULES: (23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410
INVERTER: Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

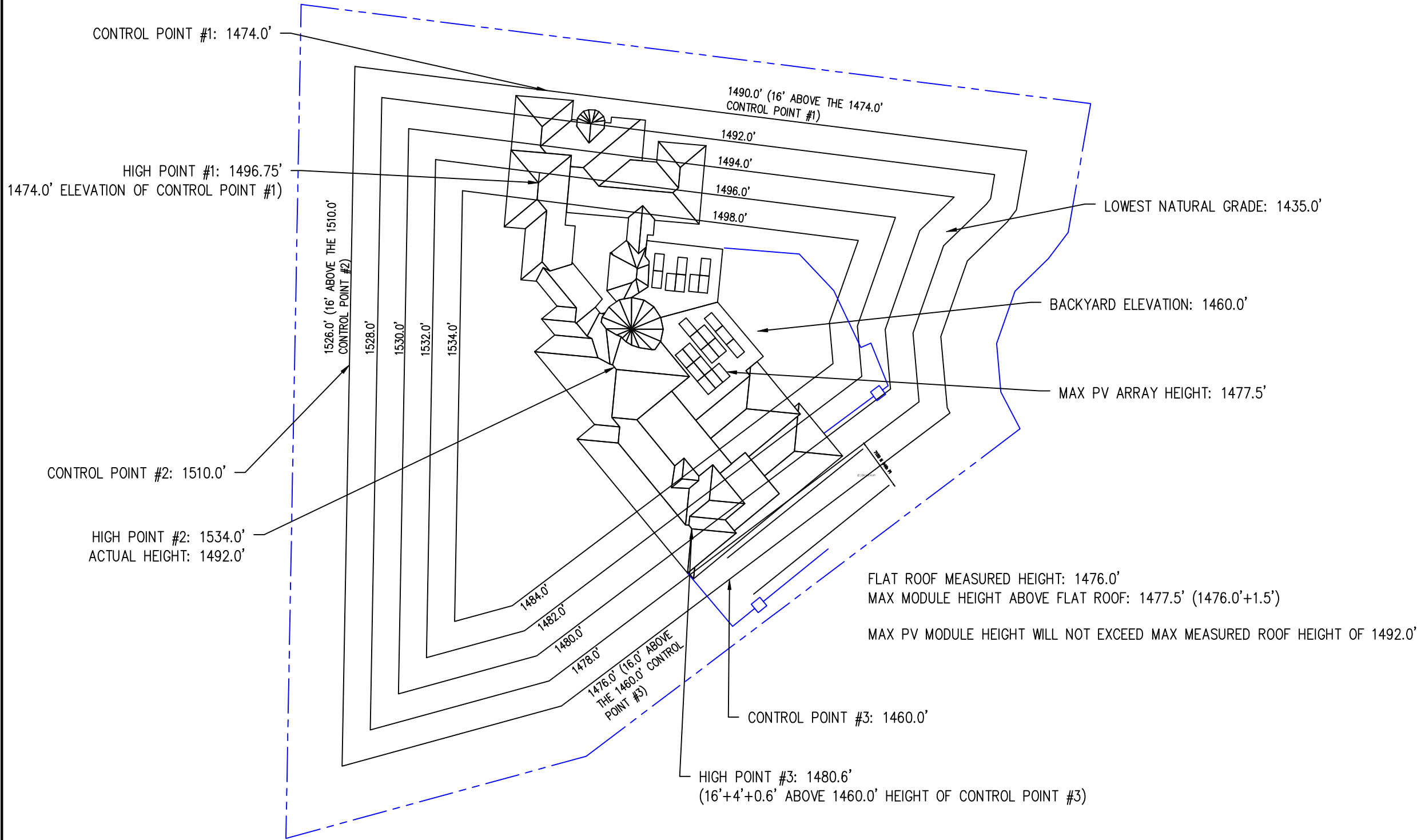
<p>CUSTOMER:  Amer Mian  7150 N 64th PI  Paradise Valley, AZ 85253</p> <p>4806212808</p>
--

<p>DESCRIPTION:  9.43 KW DC ROOF MOUNT PV ARRAY  11.5 KW (AC NAMEPLATE) PV ARRAY  27 KWH ENERGY STORAGE SYSTEM</p> <p>PAGE NAME:  COVER SHEET</p>
---

<p>DESIGN:  Nikolai Cox</p> <p>SHEET: 1 REV: B DATE: 10/17/2025</p>
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Parcel #: 174-52-010  
 Address: 7150 N 64th Pl, Paradise Valley, AZ 85253  
 Jurisdiction: PARADISE VALLEY



**PROPERTY PLAN**

Scale: 1" = 40'-0"

0 40' 80'

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ZS Ramp Foot

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INVERTER:  
Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

CUSTOMER:  
Amer Mian  
7150 N 64th Pl  
Paradise Valley, AZ 85253

4806212808

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27 KWH ENERGY STORAGE SYSTEM

PAGE NAME:  
PROPERTY PLAN

DESIGN:  
Nikolai Cox

SHEET: 2 REV: B DATE: 10/17/2025





Digitally signed by  
CHIDANAND SEKAR  
Date: 2025-10-17  
17:12:25 -07:00

MP1	PITCH: 2° (0:12)    ARRAY PITCH: 2° (0:12) AZIMUTH: 96        ARRAY AZIMUTH: 96 MATERIAL: MOD BIT        STORY: 1 STORY
MP2	PITCH: 3° (1:12)    ARRAY PITCH: 3° (1:12) AZIMUTH: 50        ARRAY AZIMUTH: 230 MATERIAL: MOD BIT        STORY: 1 STORY

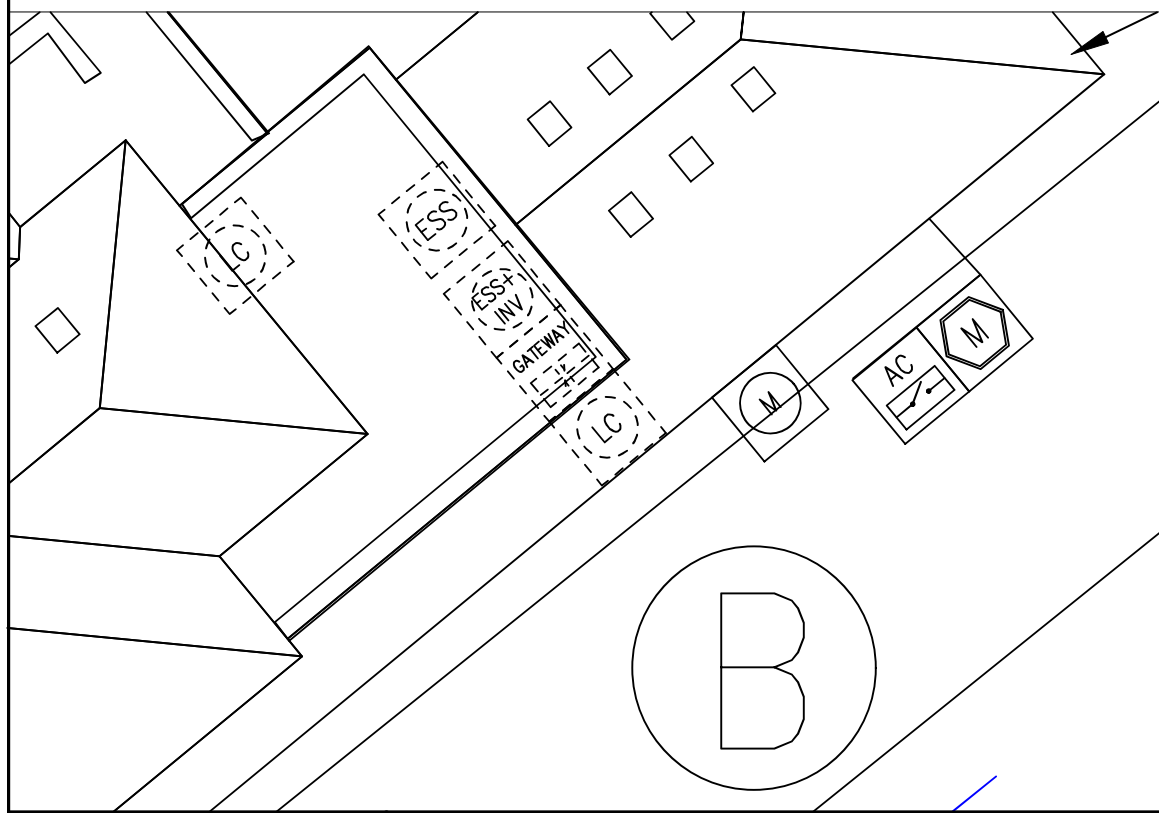
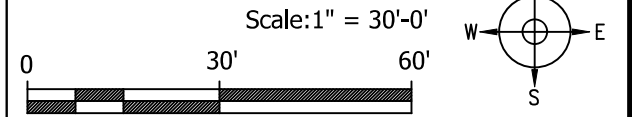
**LEGEND**

- (E) UTILITY SERVICE METER
- LOAD CENTER
- AC DISCONNECT
- SOLAR / STORAGE PRODUCTION METER
- GATEWAY
- ENERGY STORAGE SYSTEM
- ENERGY STORAGE SYSTEM W/ SOLAR INVERTER

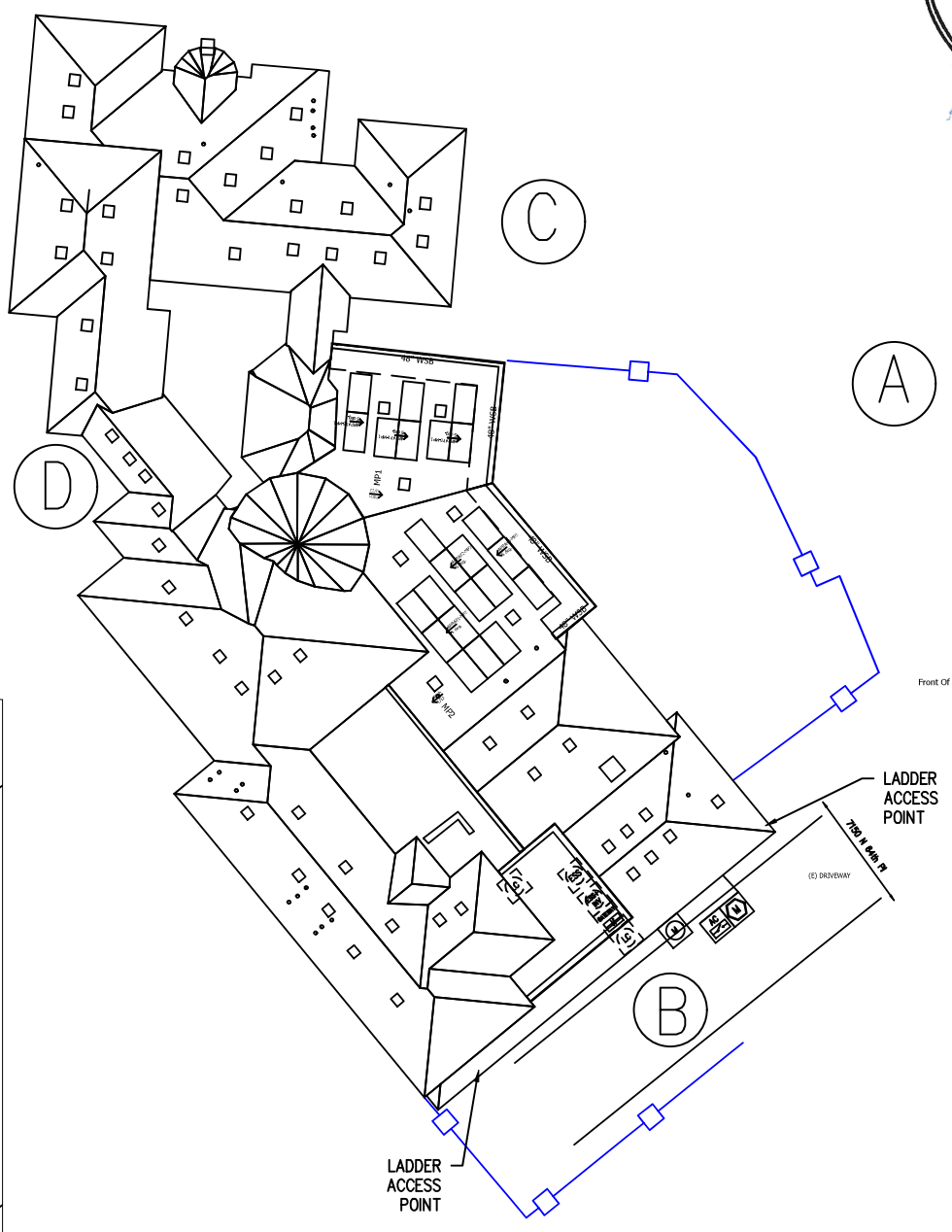
WARNING LABELS PROVIDED AT APPLICABLE EQUIPMENT

- STANDOFF LOCATIONS
- CONDUIT RUN
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT / CONDUIT IS DASHED

**SITE PLAN**



ZOOMED IN SITE VIEW IS NOT TO SCALE



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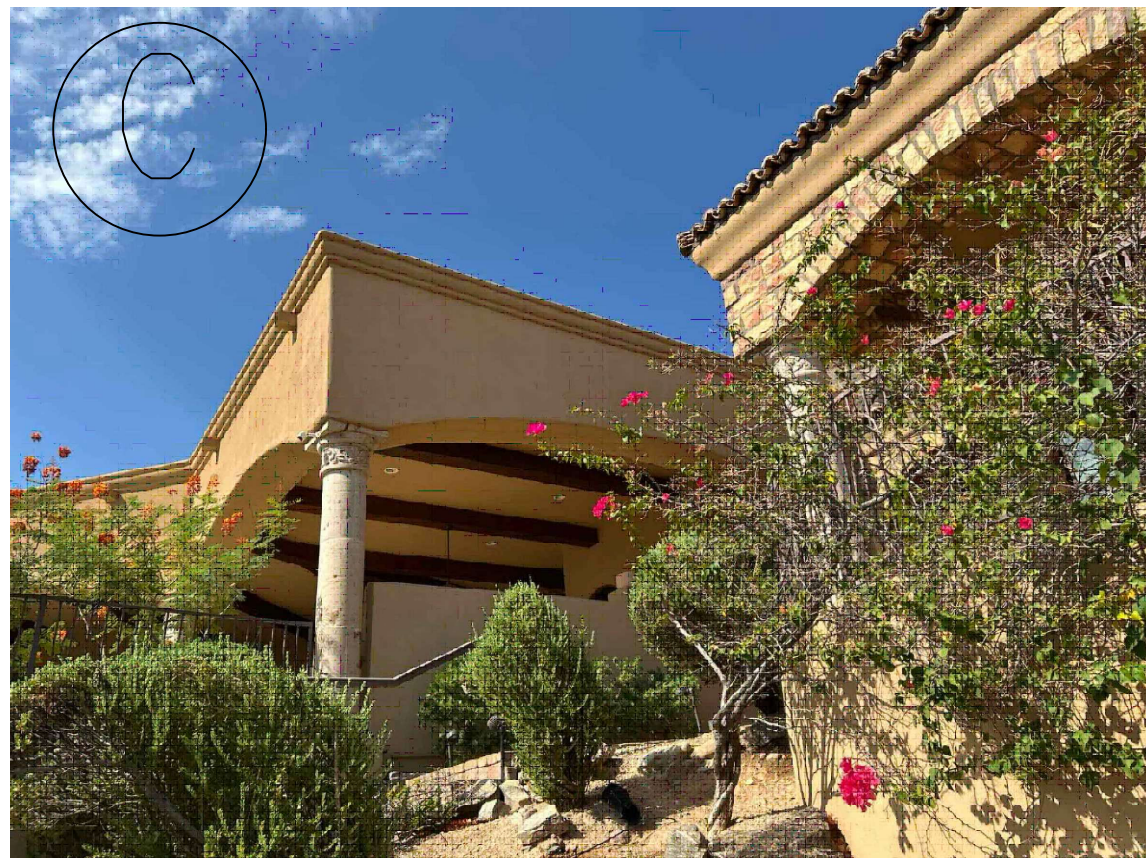
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CUSTOMER:	Amer Mian 7150 N 64th Pl Paradise Valley, AZ 85253
	4806212808

DESCRIPTION:	9.43 KW DC ROOF MOUNT PV ARRAY 11.5 KW (AC NAMEPLATE) PV ARRAY 27 KWH ENERGY STORAGE SYSTEM
PAGE NAME:	SITE PLAN

DESIGN:	Nikolai Cox
SHEET:	3
REV:	B
DATE:	10/17/2025





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 PAGE NAME:  
 PROPERTY PHOTOS

DESIGN:  
 Nikolai Cox  
 SHEET: 4 REV: B DATE: 10/17/2025

TESLA



**FLAT ROOF FRAMING INFORMATION**

FRAMING: TRUSSES  
 TOP CHORD SIZE: 2x4  
 TOP CHORD SPACING: 24" O.C.

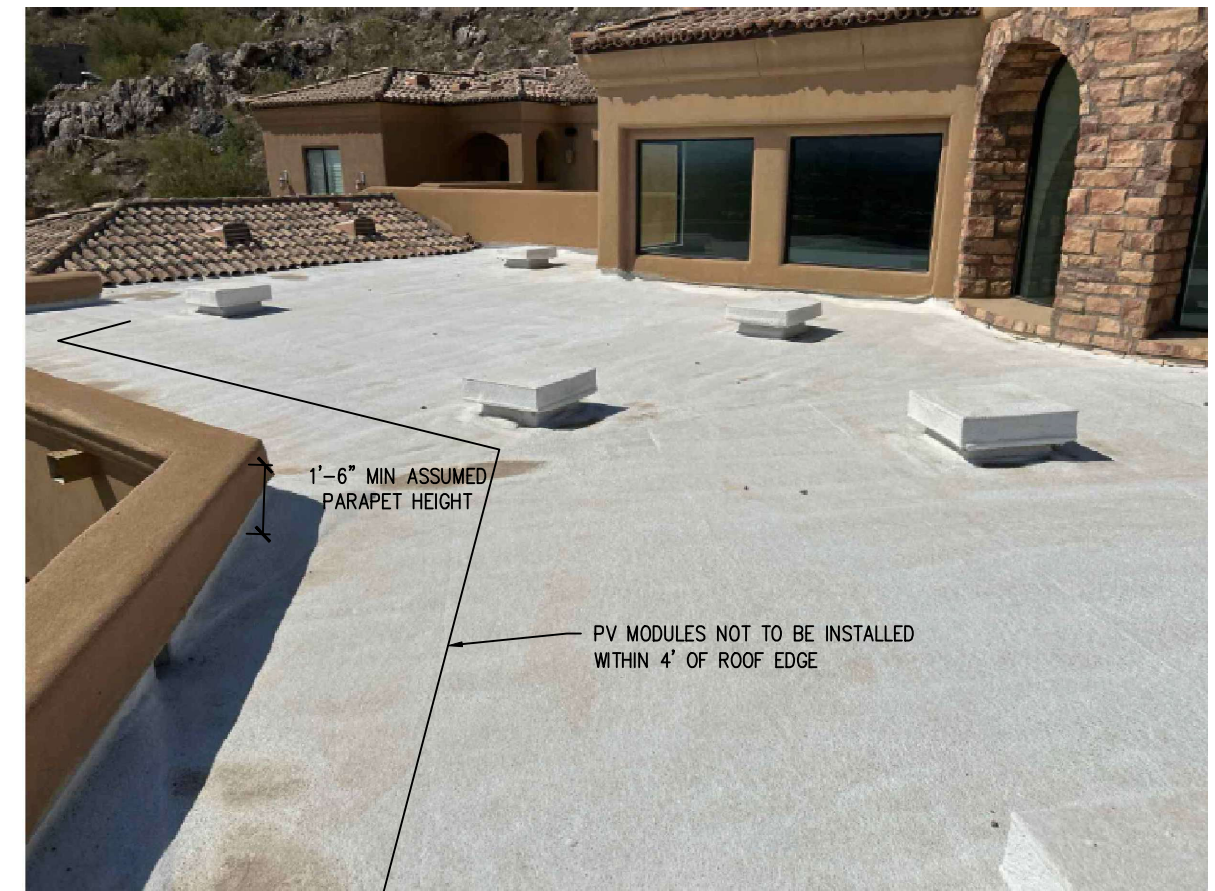
PANELS NOT VISIBLE FROM FRONT OF HOME VIEW  
 RACK SYSTEM COLOR: BLACK

SOLAR MODULES TO BE INSTALLED ON FOAM ROOF  
 USING ZS RAMP HARDWARE

EXISTING PARAPET WALLS ARE THE SAME HEIGHT  
 AS THE TALLEST PV MODULE ARRAY THAT WILL BE  
 INSTALLED ON MP2. SOLAR ARRAYS WILL NOT BE  
 VISIBLE.

NOTE: PV METER WILL BE PAINTED TO MATCH THE  
 HOUSE  
 PAINT COLOR: TAN  
 LRV: 65%

SOLAR PANEL COLOR: BLACK WITH BLACK FRAME



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PAGE NAME:  
 ROOF PLAN

DESIGN:  
 Nikolai Cox

SHEET: 5 REV: B DATE: 10/17/2025

**TESLA**

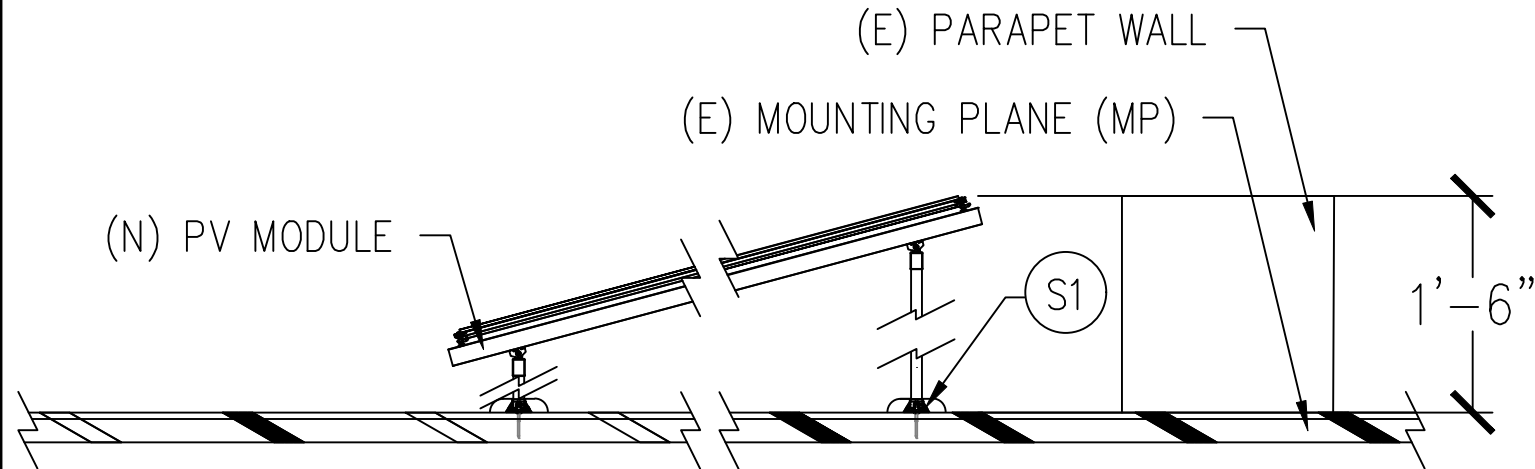
# UPLIFT CALCULATIONS

Jobsite Specific Design Criteria			
Design Code		ASCE 7-10	
Risk Category		II	Table 1.5-1
Ultimate Wind Speed	V-Ult	105	Fig. 1609A
Exposure Category		C	Section 26.7
Ground Snow Load	pg	0	Table 7-1

MP Specific Design Information		
MP Name	MP1	MP2
Roofing	Mod Bit	Mod Bit
Standoff	ZS Ramp Foot	ZS Ramp Foot
Pitch	2	3
SL/RL: PV	0.0	0.0
SL/RL: Non-PV	20.0	20.0
Edge Zone Width	8.7 ft	8.7 ft
Azimuth	96	50
Stories	2	2
Rafter Size/Spacing	2x4 @24" OC	2x4 @24" OC
CJ Size/Spacing	2x4 @24"OC	2x4 @24"OC
Standoff Spacing and Layout		
MP Name	MP1	MP2
Applied Wind Zones <sub>2</sub>	All <input type="checkbox"/>	All <input type="checkbox"/>
Wind Pressure	-9.87	-9.87
Landscape X-Spacing	72	72
Landscape X-Cantilever	24	24
Landscape Y-Spacing	72	72
Landscape Y-Cantilever	24	24
Portrait X-Spacing	48	48
Portrait X-Cantilever	16	16
Portrait Y-Spacing	72	72
Portrait Y-Cantilever	24	24
Layout	Not Staggered	Not Staggered
<p>Notes:</p> <p>1. X and Y are maximums that are always relative to the structure framing that supports the PV. X is across rafters and Y is along rafters.</p> <p>2. Hatching in Applied Wind Zone rows corresponds to hatching on Site Plan.</p> <p>3. Table lists consistent conservative standoff specifications and layout requirements across all wind zones to comply with the maximum wind pressure of any zone.</p>		

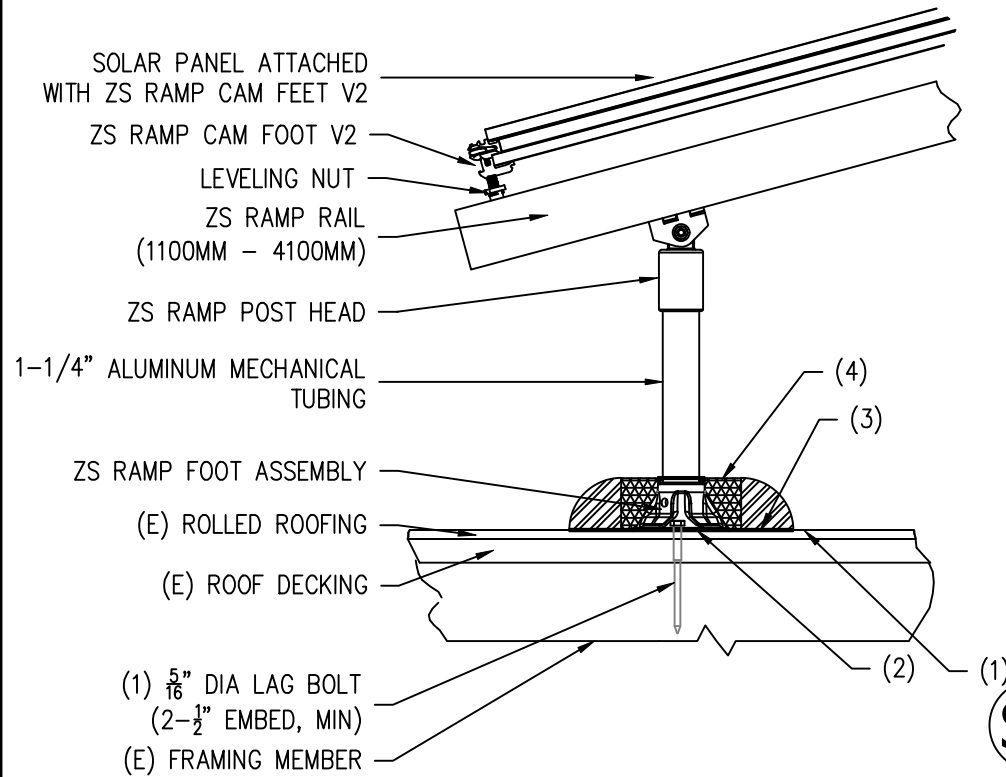
<p>CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.</p>	<p>JOB NUMBER: JB-85216384 00</p> <p>MOUNTING SYSTEM: ZS Ramp Foot</p> <p>MODULES: (23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410</p> <p>INVERTER: Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh</p>	<p>CUSTOMER: Amer Mian 7150 N 64th Pl Paradise Valley, AZ 85253</p> <p>4806212808</p>	<p>DESCRIPTION: 9.43 KW DC ROOF MOUNT PV ARRAY 11.5 KW (AC NAMEPLATE) PV ARRAY 27 KWH ENERGY STORAGE SYSTEM</p> <p>PAGE NAME: STRUCTURAL DETAILS &amp; UPLIFT CALCS</p>	<p>DESIGN: Nikolai Cox</p> <p>SHEET: 6    REV: B    DATE: 10/17/2025</p>	
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PV MODULES WILL BE INSTALLED 4' FROM ALL ROOF EDGES. DISTANCE FROM (N) PV MODULE TO (E) PARAPET WALL IS NOT TO SCALE



**SV** TYPICAL PV SIDE VIEW  
NTS

**S1**



- INSTALLATION ORDER**
- (1) CLEAN ROOF DECK.
  - (2) APPLY M1 SEALANT BENEATH FOOT ASSEMBLY AND ON PIPE CONNECTION TO FOOT ASSEMBLY. MOUNT FOOT WITH LAG, INSTALL VERTICAL PIPE, AND POST HEAD.
  - (3) M-1 STRUCTURAL SEALANT AT BASE OF SEALING RINGS AND AROUND PENETRATION.
  - (4) 1 PART POURABLE SEALANT.

**S1** STANDOFF  
Scale: 1 1/2" = 1'

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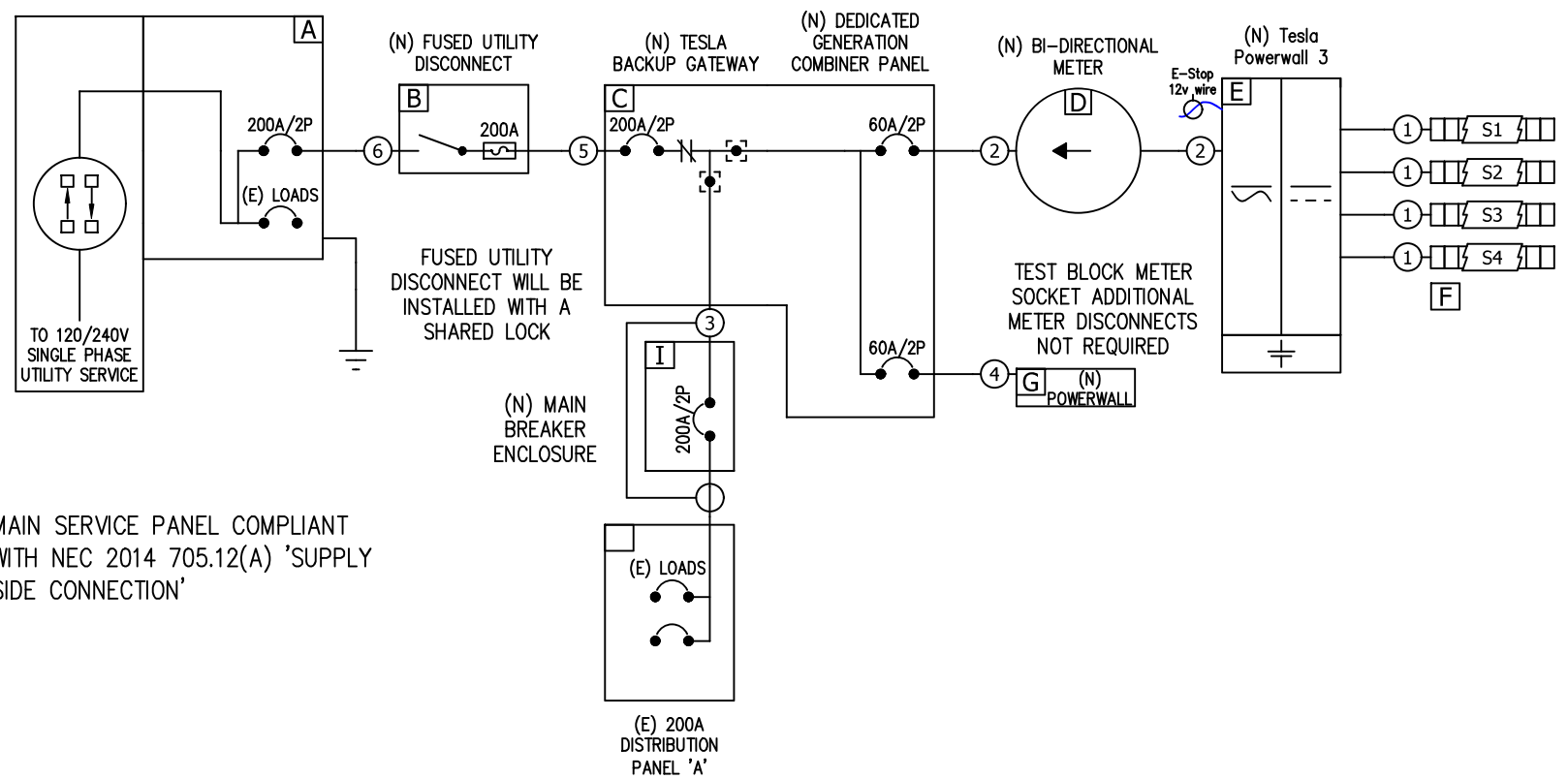
JOB NUMBER: JB-85216384 00  
MOUNTING SYSTEM: ZS Ramp Foot  
MODULES: (23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410  
INVERTER: Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

CUSTOMER: Amer Mian  
7150 N 64th Pl  
Paradise Valley, AZ 85253  
4806212808

DESCRIPTION: 9.43 KW DC ROOF MOUNT PV ARRAY  
11.5 KW (AC NAMEPLATE) PV ARRAY  
27 KWH ENERGY STORAGE SYSTEM  
PAGE NAME: STRUCTURAL VIEWS

DESIGN: Nikolai Cox  
SHEET: 7 REV: B DATE: 10/17/2025





MAIN SERVICE PANEL COMPLIANT WITH NEC 2014 705.12(A) 'SUPPLY SIDE CONNECTION'



Digitally signed by CHIDANAND SEKAR  
Date: 2025-10-17 17:12:25 -07:00

1. PROPER GROUNDING ESTABLISHED AND NEUTRAL PULLED THROUGH ALL METERING ENCLOSURES REQUIRED BY THE APS INTERCONNECTION REQUIREMENTS.
2. PROPER GROUNDING IS ESTABLISHED TO PROVIDE A SAFE WORKING ENVIRONMENT PER APPLICABLE NEC SECTIONS AT ALL VISUAL OPEN DISCONNECTS REQUIRED BY THE APS INTERCONNECTION REQUIREMENTS.
3. GROUND-NEUTRAL BOND ESTABLISHED IN THE SERVICE DISCONNECT ENCLOSURE PER APPLICABLE NEC SECTIONS.
4. DESIGN OF THIS SYSTEM ARE IN COMPLIANCE WITH ALL APPLICABLE NEC SECTIONS SUBJECT TO THE LATEST NEC AS ADOPTED BY LOCAL AHJ.
5. ALL EQUIPMENT MUST BE UTILIZED IN ACCORDANCE WITH THE MANUFACTURER'S INTENDED USE AND DESIGN SPECIFICATIONS.

NEUTRAL-GROUND BONDING JUMPER WILL BE SIZED IN ACCORDANCE WITH NEC 250.66

GROUND BUSHINGS WILL BE USED ON ALL RMC CONNECTIONS AS REQUIRED

ALL AC EQUIPMENT IS 2P; OPERATING AT 240V

PRODUCTION METER FORM 2S

POWERWALL OCPD IN THE DEDICATED GENERATION COMBINER PANEL WILL INCLUDE LOCKING PROVISIONS PER OSHA LOTO REQUIREMENTS, IF THE DESIGN DEEMS NECESSARY.

**H** Emergency Stop Button (E-Stop)

- Rapid Shutdown Initiation Device per Article 690.12(C) of the NEC
- Disconnecting Means as defined in Article 100 of the NEC
- Connection to generation sources with 12V, 1A communication wire

PARTS			DC CONDUCTOR TABLE							STRING TABLE								
Ref	Qty	Description	Ref	Type	Qty	Size (AWG, Cu)	EGC (AWG, Cu)	Conduit	Isc (ADC)	Imp (ADC)	Product Ref	String Ref	Module per String	MCI per String	Voc* (VDC)	Vmp (VDC)	Mounting Plane	
B	2	Bussmann # LPJ-200SP: Class J Fuse; 200A, 600Vac, must be installed in Heavy Duty disconnect	1	PV Wire	2	#10	#10	3/4" EMT	11.20	10.89	E	S4	8	1	394.49	301.12	MP2	
	1	Eaton # DH224NRKV-00LL: Heavy Duty Disconnect; 200A, 240Vac, Fusible, NEMA 3R, 2P, 3W, for Class J fuses	AC CONDUCTOR TABLE							S3		7	1	345.18	263.48	MP2		
C	2	CUTLER-HAMMER # BR260: Breaker; 60A/2P, 2 Spaces	Ref	Type	Qty	Size (AWG)	Min EGC (AWG, Cu)	Conduit	Length (ft)	Imp (AAC)		Vmp (VAC)	S2	2	1	98.62	75.28	MP1
	1	Eaton # CSR2200N: 200A MB ONLY; 2-Pole, 120V/240V, 25kAIC, Bolt On	2	THWN-2	3	#06 #04	#10	PVC Jacketed MC	1" EMT	5ft		48	240	S1	6	1	295.87	225.84
D	1	Tesla # 1841000-XX-Y: Back-up Gateway 3.0 NA for PW	3	THWN-2	3	#3/0 250 KCMIL	#06	2" PVC	2" PVC	2ft		-	240					
	1	Cooper B-Line 114TB: 100A Meter Socket with Safety Bypass; Ringed,EUSERC,4-Jaw, Single Phase, OH, Surface	4	THWN-2	3	#06 #04	#10	PVC Jacketed MC	1" EMT	2ft		-	240					
E	2	AW CAP; B-Line : Meter Socket Accessory	5	THWN-2	3	#3/0 250 KCMIL	#06	2" PVC	2" PVC	2ft	-	240						
	1	Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh	6	THWN-2	3	#3/0 250 KCMIL	#06	2" PVC	2" PVC	5ft	-	240						
F	4	ASY, MCI-2, 1000V																
G	1	Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh																
H	1	UL 508 Emergency Stop Device - NEMA 4X																
I	1	SQUARE D #Q22200NRB: Enclosure Only,200A Max,Accepts Q Series Breakers																
	1	Square D # QBL22200: 200A Circuit Breaker; MoId #eD # Case, 2-Pole, 240V, 10kAIC																

1. CONDUIT RUNS MAY BE CONDENSED DUE TO SITE CONDITIONS AND/OR INSTALLATION EASE. ALL CONDUIT FILL DERATES AND PROPER CALCULATIONS HAVE BEEN COMPLETED PER NEC CHAPTER 9, TABLE 4.
2. SOLAR SHUTDOWN DEVICE TO BE INSTALLED FOR SYSTEM RAPID SHUTDOWN (RSD) IN ACCORDANCE WITH ARTICLE 690 OF THE APPLICABLE NEC.
3. CONDUIT TYPE CAN CHANGE DUE TO SITE CONDITIONS AND WILL FOLLOW THE NEC REQUIREMENTS FOR THAT CONDUIT TYPE.

LICENSE	BLDG CL KB-01: ROC243771 ELEC CL K-11: ROC 245450		
SITE SPECIFICATIONS		MODULE SPECIFICATIONS	
Main Panel Rating	(E) 600A	Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410: PV Mod, 410W, 385.9PTC, ZEP, Blk Frm, Blk Backsht, MC4, 1kV	
Main Breaker Rating	Multiple Main Breakers (6 or fewer)	Qty	23
General Notes	DC Ungrounded Inverters	Voc	45.37
Panel Number	246-2-OH	Vmp	37.64
Meter Number	1184183	Isc and Imp are in the DC Conductor Table	
Service Entrance	Underground		

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JOB NUMBER: JB-85216384 00  
MOUNTING SYSTEM: ZS Ramp Foot  
MODULES: (23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410  
INVERTER: Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

CUSTOMER: Amer Mian  
7150 N 64th Pl  
Paradise Valley, AZ 85253  
4806212808

DESCRIPTION: 9.43 KW DC ROOF MOUNT PV ARRAY  
11.5 KW (AC NAMEPLATE) PV ARRAY  
27 KWH ENERGY STORAGE SYSTEM  
PAGE NAME: THREE LINE DIAGRAM

DESIGN: Nikolai Cox  
SHEET: 8 REV: B DATE: 10/17/2025



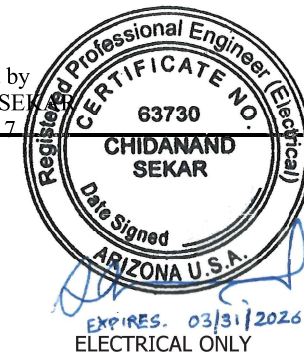
**ADDITIONAL NOTES:**

- 1 NUMBERS IN PARENTHESIS REFER TO LABELS SHOWN ON THE CUTSHEET PAGE.
- 2 EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION
- 3 BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY (WHEN REQUIRED)
- 4 LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER AND SOLAR MODULES PER NEC 110.3(B). INVERTER GROUND-FAULT PROTECTION IS IN COMPLIANCE W/ ART. 690.5 & UL 1741.
- 5 METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31(E).
- 6 LABELS (1) "PHOTOVOLTAIC POINT OF INTERCONNECTION WARNING! ELECTRIC SHOCK HAZARD!" AND (13) "BREAKERS ARE BACKFED" SHOULD BE PLACED AT THE POINT OF INTERCONNECTION PER NEC 705.10 AND PER NEC690.64(B)(5). LABEL WITH THE MAXIMUM AC OUTPUT OPERATING CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
- 7 LABEL (12) "PV SYSTEM UTILITY DISCONNECT SWITCH" SHOULD BE PLACED ON THE PV SYSTEM UTILITY DISCONNECT SWITCH. SWITCH COVER TO BE LOCKED AT ALL TIMES. SWITCH TO BE VISIBLE BLADE AND ACCESSIBLE PER UTILITY REQUIREMENTS AND CONFORM TO NEC 705.22.
- 8 LABELS (5) "PHOTOVOLTAIC DC DISCONNECT WARNING! ELECTRIC SHOCK HAZARD!" SHOULD BE PLACED ON THE PV SYSTEM DC DISCONNECT SWITCH PER NEC 690.14(C)(2). LABEL WITH OPERATING CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC 690.53. SWITCH TO BE LOCKED PER NEC 690.7(D).
- 9 LABEL (11) "PV SYSTEM DEDICATED kWh METER" SHOULD BE PLACED ON THE PV SYSTEM DEDICATED kWh METER. METER ENCLOSURE AND SOCKET PROVIDED AND INSTALLED BY CUSTOMER PER APS ESRM. METER PROVIDED BY CUSTOMER (AS REQUIRED).
- 10 LABEL (4) "ELECTRIC SHOCK HAZARD..." SHOULD BE PLACED ON ALL AC DISCONNECTING MEANS SUCH AS DISCONNECTS, LOAD CENTERS PER NEC 690.17.
- 11 LABEL (5) "DC DISCONNECT" SHOULD BE PLACED ON ALL DC DISCONNECTING MEANS SUCH AS FUSED COMBINERS, DISCONNECTS, AND INVETRETS PER NEC 690.17.
- 12 LABELS (9) "PV COMBINER BOX WARNING: ELECTRIC SHOCK HAZARD" AND (10)"LOADS NOT TO BE ADDED TO THIS PANEL" SHOULD BE PLACED ON ALL DEDICATED PV SYSTEM AC COMBINERS.

- 13 LABELS (14) "BREAKER HAS BEEN DE-RATED PER NEC 690.64(B)(2)" SHOULD BE PLACED AT ANY LOAD CENTERS OR ELECTRICAL PANELS WHERE THE MAIN BREAKER HAS BEEN DE-RATED.
- 14 LABEL (15) "WARNING - A GENERATION SOURCE IS CONNECTED TO THE SUPPLY..." SHALL BE PLACED AT THE MAIN SERVICE DISCONNECT WHENEVER A SUPPLY SIDE TAP IS USED TO INTERCONNECT THE PV SYSTEM.
- 15 USE-2/RHW-2 IS SUNLIGHT RESISTENT.
- 16 ALL CONDUCTORS WILL BE COPPER.
- 17 GEC TO BE INSTALLED AS REQ. BY MANUFACTURER INSTRUCTIONS AND NEC 690.47.
- 18 LABEL (2) "WARNING - INVERTER OUTPUT CONNECTION; DO NOT RELOCATE THIS OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR" PER NEC 705.12(D)(2).
- 19 GROUNDING BUSHINGS AT EVERY ENTRY AND EXIT POINT TO ENCLOSURES WITH RMC.
- 20 A PLACARD OR DIRECTORY IS INSTALLED AT THE SERVICE ENTRANCE WITH EXPLICIT DIRECTIONS TO THE LOCATION OF THE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH AS REQUIRED BY APS. PLACARD TO BE INSTALLED PER NEC 705.10.
- 21 SUPPLY SIDE CONNECTION IS INSTALLED PER NEC 230, APS ESRM, AND APS INTERCONNECTION REQUIREMENTS. LABEL "PHOTOVOLTAIC SYSTEM SERVICE DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES.
- 22 SUPPLY SIDE CONNECTION IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DOCUMENTATION IS INCLUDED WITH THE APS INTERCONNECTION APPLICATION. ENSURE UL LISTED CONNECTORS.
- 23 NEUTRAL-GROUND BONDING JUMPER WILL BE SIZED IN ACCORDANCE WITH NEC 250.66
- 24 LOAD SIDE TAP IS INSTALLED PER NEC 240.24(B), AND APS REQUIREMENTS. LABEL "PV CUSTOMER DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES.
- 25 LOAD SIDE TAP IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DOCUMENTATION IS INCLUDED WITH THE APS INTERCONNECTION APPLICATION.

- 26 LABEL "WARNING: THIS SUB-PANEL FED FROM MULTI POWER PRODUCTION SOURCES".
- 27 INVERTER TO BE LISTED TO UL 1741.
- 28 GROUND FAULT PROTECTION PROVIDED IN DC/AC INVERTER.
- 29 OPTIONAL CRITICAL LOAD SUB-PANEL ON THE OUTPUT OF THE INVERTER IN USE [NOTE: A SEPARATE PV SYSTEM UTILITY DISCONNECT SWITCH WILL BE REQUIRED ON THE INVERTER OUTPUT FEEDING THE CRITICAL LOAD SUB-PANEL WHERE THE UTILITY DOES NOT HAVE 24HR UNRESTRICTED ACCESS TO THE CRITICAL LOAD SUB-PANEL.]
- 30 OPTIONAL INVERTER GENERATOR INPUT (GEN IN) NOT USED [NOTE: IF A BACKUP GENERATOR IS CONNECTED TO THE INVERTER, THEN A SEPARATE DISCONNECT SWITCH AND METER/METER SOCKET WILL BE REQUIRED ON THE GENERATOR OUTPUT SUBJECT TO APS REVIEW/APPROVAL.]
- 31 LABEL SES "WARNING: MULTI POWER PRODUCTION SOURCES INTERCONNECTED TO THIS ELECTRICAL SERVICE."
- 32 PV SYSTEM UTILITY DISCONNECT SWITCH IS REQUIRED IF CRITICAL LOADS SUB-PANEL IS NOT ACCESSIBLE BY APS.
- 33 A PERMANENT PLAQUE OR DIRECTORY DENOTING LOCATION OF PV SYSTEM UTILITY DISCONNECT SWITCH OR LOCATION OF ACCESSIBLE CRITICAL LOADS SUB-PANEL SHALL BE REQUIRED AT CRITICAL LOADS SUB-PANEL METER.

Digitally signed by  
CHIDANAND SEKAR  
Date: 2025-10-17  
17:12:26 -07:00



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JOB NUMBER: JB-85216384 00  
 MOUNTING SYSTEM: ZS Ramp Foot  
 MODULES: (23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410  
 INVERTER: Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

CUSTOMER:  
 Amer Mian  
 7150 N 64th Pl  
 Paradise Valley, AZ 85253  
 4806212808

DESCRIPTION:  
 9.43 KW DC ROOF MOUNT PV ARRAY  
 11.5 KW (AC NAMEPLATE) PV ARRAY  
 27 KWH ENERGY STORAGE SYSTEM  
 PAGE NAME:  
 TRIANGLE NOTES

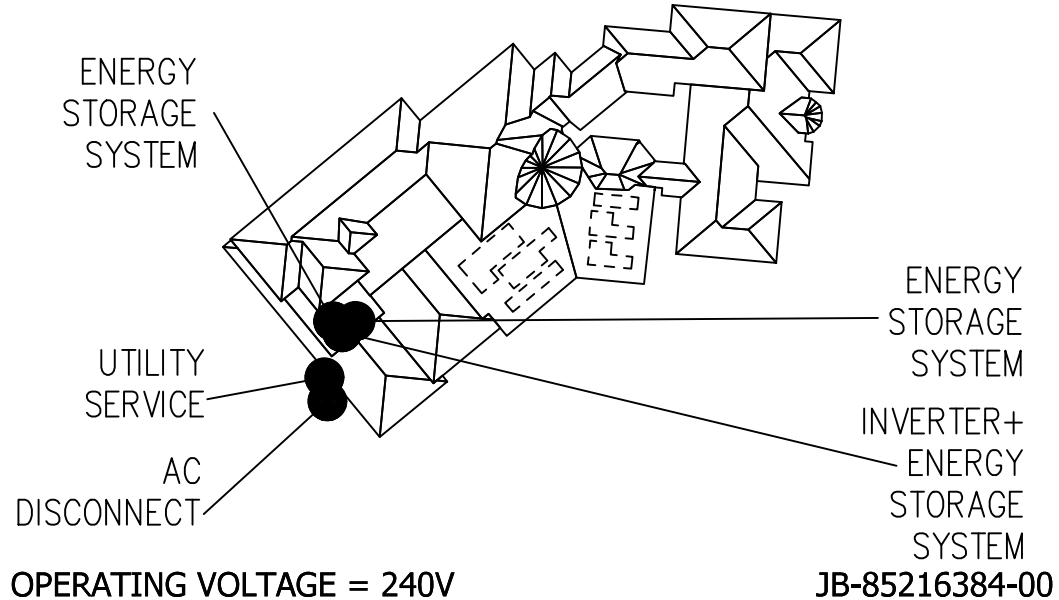
DESIGN:  
 Nikolai Cox  
 SHEET: 9 REV: B DATE: 10/17/2025



# SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF"  
POSITION TO SHUT DOWN PV SYSTEM AND REDUCE  
SHOCK HAZARD IN THE ARRAY  
**CAUTION: MULTIPLE SOURCES OF POWER**

- Address: 7150 N 64th Pl



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JOB NUMBER: JB-85216384 00

MOUNTING SYSTEM:  
ZS Ramp Foot

MODULES:  
(23) Hanwha Q Cells Q.PEAK DUO BLK ML-G10+/TS 410

INVERTER:  
Tesla Powerwall 3 [240V] # 1707000-XX-Y 11.5 kW / 13.5 kWh

CUSTOMER:  
Amer Mian  
7150 N 64th Pl  
Paradise Valley, AZ 85253

4806212808

DESCRIPTION:  
9.43 KW DC ROOF MOUNT PV ARRAY  
11.5 KW (AC NAMEPLATE) PV ARRAY  
27 KWH ENERGY STORAGE SYSTEM

PAGE NAME:  
SITE PLAN PLACARD

DESIGN:  
Nikolai Cox

SHEET: 10 REV: B DATE: 10/17/2025



WARNING: PHOTOVOLTAIC POWER SOURCE

Label Location:  
(C)  
Per Code:  
2012 IFC

### WARNING

ELECTRIC SHOCK HAZARD  
DO NOT TOUCH TERMINALS  
TERMINALS ON BOTH LINE  
AND LOAD SIDES MAY BE  
ENERGIZED IN THE OFF POSITION

Label Location:  
(AC) (POI)

### WARNING

A GENERATION SOURCE IS  
CONNECTED TO THE SUPPLY  
(UTILITY) SIDE OF THE MAIN  
SERVICE DISCONNECT. FOLLOW  
PROPER LOCK-OUT/TAG-OUT  
PROCEDURES TO ENSURE  
THE PHOTOVOLTAIC SYSTEM  
UTILITY DISCONNECT SWITCH IS  
OPENED PRIOR TO PERFORMING  
WORK ON THIS DEVICE

Label Location:  
(D)

**NOTICE**  
PV SYSTEM COMBINER PANEL  
DO NOT ADD LOADS  
TO THIS PANEL

Label Location:  
(D) (POI)

### WARNING

ELECTRIC SHOCK HAZARD  
NO USER SERVICABLE  
PARTS INSIDE  
CONTACT AUTHORIZED  
SERVICER FOR ASSISTANCE

Label Location:  
(CB)

### CAUTION

SOLAR PV SYSTEM INSTALLED  
WHEN POWER IS DISCONNECTED  
SOLAR PANELS AND WIRING IN  
CONDUIT TO INVERTER MAY  
REMAIN ENERGIZED DURING  
DAYLIGHT HOURS

Label Location:  
(D)

PHOTOVOLTAIC  
SYSTEM DEDICATED  
KWH METER

Label Location:  
(AC)

PV COMBINER BOX  
WARNING: ELECTRIC SHOCK  
HAZARD

Label Location:  
(CB)  
Per Code:  
NEC 690.14.C.2

### DC PHOTOVOLTAIC DISCONNECT

Label Location:  
(DC) (INV)  
Per Code:  
NEC 690.14.C.2

PHOTOVOLTAIC POINT OF  
INTERCONNECTION  
WARNING: ELECTRIC SHOCK  
HAZARD. DO NOT TOUCH  
TERMINALS. TERMINALS ON  
BOTH THE LINE AND LOAD SIDE  
MAY BE ENERGIZED IN THE OPEN  
POSITION. FOR SERVICE  
DE-ENERGIZE BOTH SOURCE  
AND MAIN BREAKER.  
PV POWER SOURCE

Label Location:  
(POI)  
Per Code:  
CEC 690.13.B

PHOTOVOLTAIC SYSTEM  
UTILITY  
DISCONNECT SWITCH

Label Location:  
(AC)

MAXIMUM POWER-  
POINT CURRENT (I<sub>mp</sub>)  A  
MAXIMUM POWER-  
POINT VOLTAGE (V<sub>mp</sub>)  V  
MAXIMUM SYSTEM  
VOLTAGE (V<sub>oc</sub>)  V  
SHORT-CIRCUIT  
CURRENT (I<sub>sc</sub>)  A

Label Location:  
(DC) (INV)  
Per Code:  
NEC 690.53

MAXIMUM AC  A  
OPERATING CURRENT  
MAXIMUM AC  V  
OPERATING VOLTAGE

PHOTOVOLTAIC POWER  
SOURCE BREAKERS  
ARE BACKFEEDING

Label Location:  
(POI)

### AC PHOTOVOLTAIC DISCONNECT

Label Location:  
(AC) (POI)  
Per Code:  
NEC 690.14.C.2

### CAUTION

DUAL POWER SOURCE  
SECOND SOURCE IS  
PHOTOVOLTAIC SYSTEM

Label Location:  
(POI)  
Per Code:  
NEC 705.12.B.3

BREAKER HAS  
BEEN DE-RATED  
PER NEC 690.64(B)(2)

Label Location:  
(D)

MAXIMUM AC  A  
OPERATING CURRENT  
MAXIMUM AC  V  
OPERATING VOLTAGE

Label Location:  
(AC) (POI)  
Per Code:  
NEC 690.54

### WARNING

INVERTER OUTPUT  
CONNECTION  
DO NOT RELOCATE  
THIS OVERCURRENT  
DEVICE

Label Location:  
(POI)  
Per Code:  
NEC 705.12.B.2.3.4

### NOTICE

INVERTER AND DISCONNECT  
LOCATED IN GARAGE

Label Location:  
(D)

(AC): AC Disconnect  
(C): Conduit  
(CB): Combiner Box  
(D): Distribution Panel  
(DC): DC Disconnect  
(IC): Interior Run Conduit  
(INV): Inverter With Integrated DC Disconnect  
(LC): Load Center  
(M): Utility Meter  
(POI): Point of Interconnection

**BACKUP LOAD CENTER**

Label Location:  
(BLC)  
Per Code:  
NEC 408.4

**CAUTION**  
TRI POWER SOURCE  
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM  
THIRD SOURCE IS ENERGY STORAGE SYSTEM

Label Location:  
(MSP)  
Per Code:  
NEC 705.12(B)(3)

**CAUTION**  
DO NOT ADD NEW LOADS

Label Location:  
(BLC)  
Per Code:  
NEC 220

**WARNING**  
THIS EQUIPMENT FED BY  
MULTIPLE SOURCES. TOTAL  
RATING OF ALL OVER CURRENT  
DEVICES, EXCLUDING MAIN  
SUPPLY OVERCURRENT DEVICE,  
SHALL NOT EXCEED AMPACITY  
OF BUSBAR.

Label Location:  
(MSP)  
Per Code:  
NEC 705.12.B.2.3.c

**CAUTION**  
THIS PANEL HAS SPLICED FEED-  
THROUGH CONDUCTORS.  
LOCATION OF DISCONNECT AT ENERGY  
STORAGE BACKUP LOAD PANEL

Label Location:  
(MSP)  
Per Code:  
NEC 312.8.A(3)

**NOMINAL ESS VOLTAGE:** 120/240V  
**MAX AVAILABLE SHORT-  
CIRCUIT FROM ESS:** 32A  
**ARC FAULT CLEARING  
TIME FROM ESS:** 67ms  
**DATE OF  
CALCULATION:**

Label Location:  
(MSP)  
Per Code:  
Per 706.7(D) label to be marked in field

**CAUTION**  
DUAL POWER SOURCE  
SECOND SOURCE IS  
ENERGY STORAGE SYSTEM

Label Location:  
(MSP)  
Per Code:  
NEC 705.12(B)(3)

**ENERGY STORAGE SYSTEM ON SITE  
LOCATED WITHIN LINE OF SIGHT**

Label Location:  
(MSP)  
Per Code:

**ENERGY STORAGE SYSTEM ON SITE  
LOCATED ON ADJACENT WALL**

Label Location:  
(MSP)  
Per Code:

**ENERGY STORAGE SYSTEM ON SITE  
LOCATED ON OPPOSITE WALL**

Label Location:  
(MSP)  
Per Code:

**ENERGY STORAGE SYSTEM ON SITE  
LOCATED INSIDE**

Label Location:  
(MSP)  
Per Code:

(AC): AC Disconnect  
(BLC): Backup Load Center  
(MSP): Main Service Panel

# Gateway 3

Tesla Gateway 3 controls connection to the grid in a Powerwall system, automatically detecting outages and providing seamless transition to backup power. It provides energy monitoring that is used by Powerwall for solar self-consumption, time-based control, and backup operation.

## Performance Specifications

<b>Model Number</b>	1841000-01-y	<b>AC Meter</b>	Revenue accurate (+/- 0.5%)
<b>Nominal Grid Voltage</b>	120/240 V AC	<b>Communication</b>	CAN
<b>Grid Configuration</b>	Split phase	<b>User Interface</b>	Tesla App
<b>Grid Frequency</b>	60 Hz	<b>Backup Transition</b>	Automatic disconnect for seamless backup
<b>Continuous Current Rating</b>	200 A	<b>Overcurrent Protection Device</b>	100-200 A Service entrance rated Eaton CSR, BWH, or BW, or Square D QOM breakers
<b>Maximum Supply Short Circuit Current</b>	22 kA with Square D or Eaton main breaker 25 kA with Eaton main breaker <sup>1</sup>	<b>Internal Panelboard</b>	200 A 8-space/16 circuit breakers Eaton BR, Siemens QP, or Square D HOM breakers rated to 10-125A
<b>IEC Protective Class</b>	Class I	<b>Warranty</b>	10 years
<b>Overvoltage Category</b>	Category IV		

<sup>1</sup>Only Eaton CSR or BWH main breakers are 25 kA rated

## Environmental Specifications

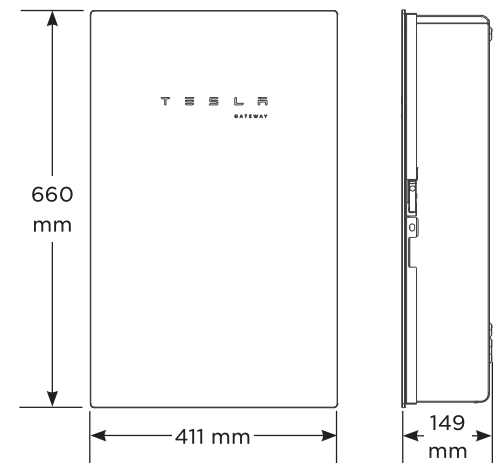
<b>Operating Temperature</b>	-20°C to 50°C (-4°F to 122°F)
<b>Operating Humidity (RH)</b>	Up to 100%, condensing
<b>Maximum Elevation</b>	3000 m (9843 ft)
<b>Environment</b>	Indoor and outdoor rated
<b>Enclosure Type</b>	NEMA 3R

## Compliance Information

<b>Certifications</b>	UL 67, UL 869A, UL 916, UL 1741 PCS, CSA 22.2 107.1, CSA 22.2 29
<b>Emmissions</b>	FCC Part 15, ICES 003

## Mechanical Specifications

<b>Dimensions</b>	660 x 411 x 149 mm (26 x 16 x 6 in)
<b>Weight</b>	16.4 kg (36 lb)
<b>Mounting options</b>	Wall mount



# Q.PEAK DUO BLK ML-G10+ SERIES



385-415 Wp | 132 Cells  
21.0% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10+/TS



**Breaking the 21 % efficiency barrier**  
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.0%.



**A reliable investment**  
Inclusive 25-year product warranty and 25-year linear performance warranty<sup>1</sup>.



**Enduring high performance**  
Long-term yield security with Anti LeTID Technology, Anti PID Technology<sup>2</sup> and Hot-Spot Protect.



**Innovative all-weather technology**  
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



**Zep compatible™ frame design**  
High-tech black Zep Compatible™ frame, for improved aesthetics, easy installation and increased safety.



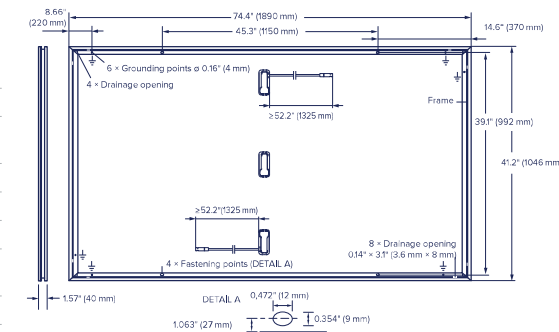
**The most thorough testing programme in the industry**  
Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.

<sup>1</sup> See data sheet on rear for further information.  
<sup>2</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96 h)

# Q.PEAK DUO BLK ML-G10+ SERIES

## Mechanical Specification

Format	74.4 in × 41.2 in × 1.57 in (including frame) (1890 mm × 1046 mm × 40 mm)
Weight	51.8 lbs (23.5 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm <sup>2</sup> Solar cable; (+) ≥ 52.2 in (1325 mm), (-) ≥ 52.2 in (1325 mm)
Connector	Stäubli MCA; IP68



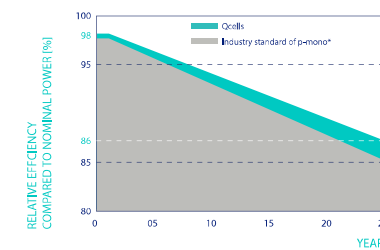
## Electrical Characteristics

POWER CLASS		385	390	395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5W / -0W)									
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub> [W]	385	390	395	400	405	410	415
	Short Circuit Current <sup>1</sup>	I <sub>SC</sub> [A]	11.04	11.07	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage <sup>1</sup>	V <sub>OC</sub> [V]	45.19	45.23	45.27	45.3	45.34	45.37	45.41
	Current at MPP	I <sub>MPP</sub> [A]	10.59	10.65	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V <sub>MPP</sub> [V]	36.36	36.62	36.88	37.13	37.39	37.64	37.89
	Efficiency <sup>1</sup>	η [%]	≥ 19.5	≥ 19.7	≥ 20.0	≥ 20.2	≥ 20.5	≥ 20.7	≥ 21.0

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>									
Minimum	Power at MPP	P <sub>MPP</sub> [W]	288.8	292.6	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I <sub>SC</sub> [A]	8.90	8.92	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V <sub>OC</sub> [V]	42.62	42.65	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I <sub>MPP</sub> [A]	8.35	8.41	8.46	8.51	8.57	8.62	8.68
Voltage at MPP	V <sub>MPP</sub> [V]	34.59	34.81	35.03	35.25	35.46	35.68	35.89	

<sup>1</sup> Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>, V<sub>OC</sub> ± 5% at STC: 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5

## Qcells PERFORMANCE WARRANTY

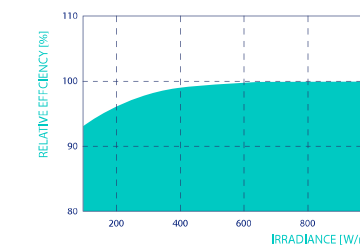


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

\*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

## PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m<sup>2</sup>).

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of I <sub>SC</sub>	α [% / K]	+0.04	Temperature Coefficient of V <sub>OC</sub>	β [% / K]	-0.27
Temperature Coefficient of P <sub>MPP</sub>	γ [% / K]	-0.34	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3 °C)

## Properties for System Design

Maximum System Voltage	V <sub>sys</sub> [V]	1000 (IEC) / 1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull <sup>1</sup>	[lbs / ft <sup>2</sup> ]	85 (4080 Pa) / 85 (4080 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull <sup>1</sup>	[lbs / ft <sup>2</sup> ]	128 (6120 Pa) / 128 (6120 Pa)		

<sup>1</sup> See Installation Manual

## Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



The ideal solution for:



\*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.  
Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hqcc-inquiry@qcells.com | WEB www.qcells.com

# Powerwall 3

## Power Everything

Powerwall 3 is a fully integrated solar and battery system, designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the Tesla App to customize system behavior to meet their energy goals.

Powerwall 3 achieves this by supporting up to 20 kW DC of solar and providing up to 11.5 kW AC of continuous power per unit. It has the ability to start heavy loads rated up to 185 LRA, meaning a single unit can support the power needs of most homes. Powerwall 3 Expansions make it easier and more affordable to scale up customers' systems to meet their current or future needs. Powerwall 3 is designed for fast and efficient installations, modular system expansion, and simple connection to any electrical service.



# Powerwall 3 Technical Specifications

## System Technical Specifications

Model Number	1707000-xx-y			
Nominal Grid Voltage (Input & Output)	120/240 VAC			
Grid Type	Split phase			
Frequency	60 Hz			
Nominal Battery Energy	13.5 kWh AC <sub>1</sub>			
Nominal Output Power (AC)	5.8 kW	7.6 kW	10 kW	11.5 kW
Maximum Apparent Power	5,800 VA	7,600 VA	10,000 VA	11,500 VA
Maximum Continuous Current	24 A	31.7 A	41.7 A	48 A
Overcurrent Protection Device <sub>2</sub>	30 A	40 A	60 A	60 A
Configurable Maximum Continuous Discharge Power Off-Grid (PV Only, -20°C to 25°C)	15.4 kW <sub>3</sub>			
Maximum Continuous Charge Current / Power (Powerwall 3 only)	20.8 A AC / 5 kW			
Maximum Continuous Charge Current / Power (Powerwall 3 with up to (3) Expansion units)	33.3 A AC / 8 kW			
Output Power Factor Rating	0 - 1 (Grid Code configurable)			
Maximum Output Fault Current (1 s)	160 A			
Maximum Short-Circuit Current Rating	10 kA			
Load Start Capability	185 LRA			
Solar to Battery to Home/Grid Efficiency	89% <sup>14</sup>			
Solar to Home/Grid Efficiency	97.5% <sup>5</sup>			
Power Scalability	Up to 4 Powerwall 3 units supported			
Energy Scalability	Up to 3 Expansion units (for a maximum total of 7 units)			
Supported Islanding Devices	Gateway 3, Backup Switch, Backup Gateway 2			
Connectivity	Wi-Fi (2.4 and 5 GHz), Ethernet, Cellular (LTE/4G <sub>e</sub> )			
Hardware Interface	Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters			
AC Metering	Revenue Grade (+/- 0.5%, ANSI C12.20)			
Protections	Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters			
Customer Interface	Tesla Mobile App			
Warranty	10 years			

<sup>1</sup> Values provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.

<sup>2</sup> See [Powerwall 3 Installation Manual](#) for fuse requirements if using fuse for overcurrent protection.

<sup>3</sup> If enabling the 15.4 kW off-grid maximum continuous discharge power, Powerwall 3 must be installed with an 80 A breaker and appropriately sized conductors.

<sup>4</sup> Typical solar shifting use case.

<sup>5</sup> Tested using CEC weighted efficiency methodology.

<sup>6</sup> The customer is expected to provide internet connectivity for Powerwall 3; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

# Powerwall 3 Technical Specifications

## Solar Technical Specifications

Maximum Solar STC Input	20 kW
Withstand Voltage	600 V DC
PV DC Input Voltage Range	60 — 550 V DC
PV DC MPPT Voltage Range	60 — 480 V DC
MPPTs	6
Maximum Current per MPPT ( $I_{mp}$ )	13 A <sup>7</sup>
Maximum Short Circuit Current per MPPT ( $I_{sc}$ )	15 A <sup>7</sup>

<sup>7</sup>Where the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to  $26 A I_{MP} / 30 A I_{SC}$ .

## Environmental Specifications

Operating Temperature	-20°C to 50°C (-4°F to 122°F) <sup>8</sup>
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	-20°C to 30°C (-4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP55 (Wiring Compartment)
Pollution Rating	PD3
Operating Noise @ 1 m	< 50 db(A) typical < 62 db(A) maximum

<sup>8</sup>Performance may be de-rated at operating temperatures above 40°C (104°F).

## Compliance Information

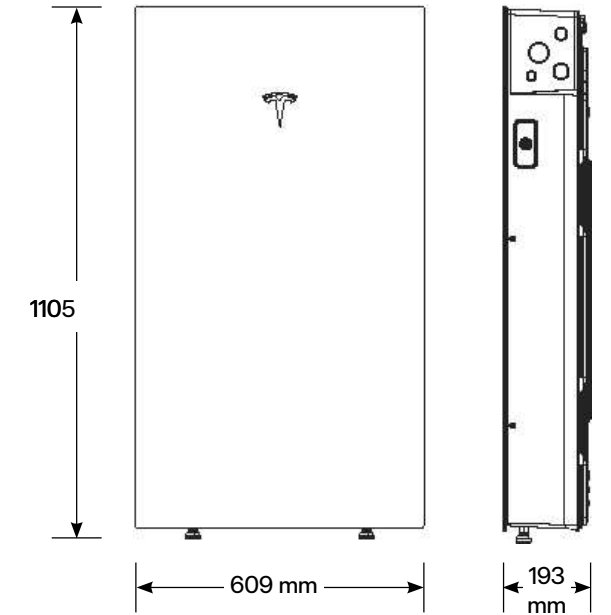
Certifications	UL 1741, UL 9540, UL 9540A, UL 3741, UL 1741 PCS, UL 1741 SA, UL 1741 SB, UL 1973, UL 1699B, UL 1998, CSA C22.2 No. 0.8, CSA C22.2 No. 107.1, CSA C22.2 No. 330, CSA 22.3 No. 9, IEEE 1547, IEEE 1547A, IEEE 1547.1, CA Rule No.21
Grid Connection	United States and Canada
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)
Fire Testing	Meets the unit level performance criteria of UL 9540A

# Powerwall 3 Technical Specifications

## Mechanical Specifications

Dimensions	1105 x 609 x 193 mm (43.5 x 24 x 7.6 in) <sup>9</sup>
Total Weight of Installed Unit	132 kg (291.2 lb)
Weight of Powerwall 3	124 kg (272.5 lb)
Weight of Glass Front Cover	6.5 kg (14.5 lb)
Weight of Wall Bracket	1.9 kg (4.2 lb)
Mounting Options	Floor or wall mount

<sup>9</sup>These dimensions include the glass front cover being installed on Powerwall 3.



# Powerwall 3 Expansion Technical Specifications

## Battery Technical Specifications

Model Number	1807000-xx-y
Nominal Battery Energy	13.5 kWh
Voltage Range	52 - 92 V DC <sup>11</sup>

<sup>11</sup>Powerwall 3 Expansion units are connected in parallel and are not field serviceable.

## Environmental Specifications

Operating Temperature	-20°C to 50°C (-4°F to 122°F) <sup>12</sup>
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	-20°C to 30°C (-4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R
Ingress Rating	IP67
Pollution Rating	PD3

<sup>12</sup>Performance may be de-rated at operating temperatures above 40°C (104°F).

## Compliance Information

Certifications	UL 1973, UL 9540
----------------	------------------

## Mechanical Specifications

Dimensions	1105 x 609 x 168 mm (43.5 x 24 x 6.6 in) <sup>13</sup>	
Total Weight of Wall-Mounted Expansion Unit	118.5 kg (261.2 lb)	
Weight of Expansion Unit	110 kg (242.5 lb)	
Weight of Glass Front Cover	6.5 kg (14.5 lb)	
Weight of Wall Bracket	1.9 kg (4.2 lb)	
Weight of Expansion Accessories	0.7 kg (1.5 lb)	
Mounting Options	Floor or wall mount	
Stacking Capability (Floor Mount Only)	Up to (3) Expansion units behind a Powerwall 3	
Compatibility with Other Systems	Only compatible with Powerwall 3	
Connection to Powerwall 3 or Expansions	Powerwall 3 Expansion harness <sup>14</sup>	

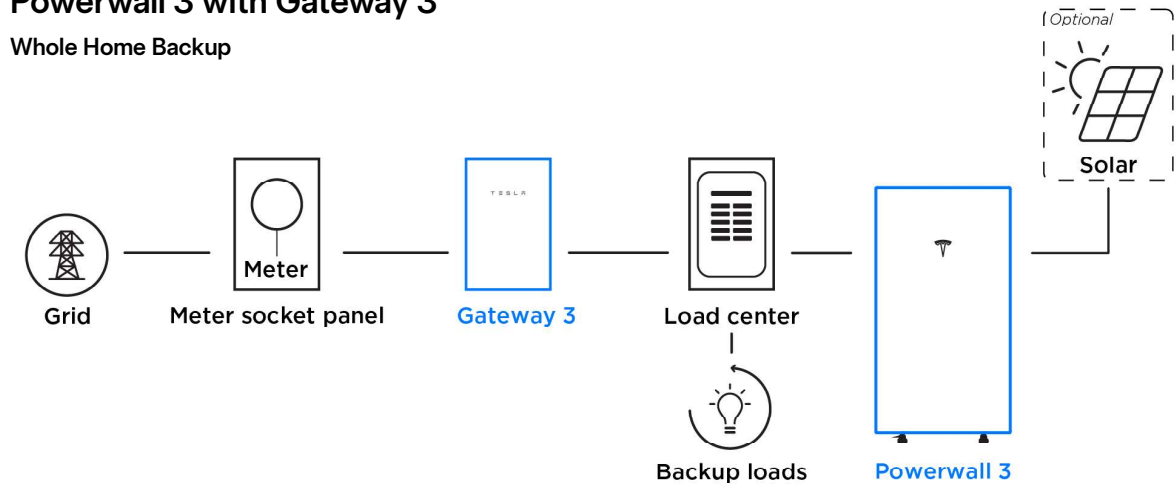
<sup>13</sup>These dimensions include the glass front cover being installed on Powerwall 3 Expansion.

<sup>14</sup>The Powerwall 3 Expansion harness is a listed component of the UL 9540 certification.

# Powerwall 3 Example System Configurations

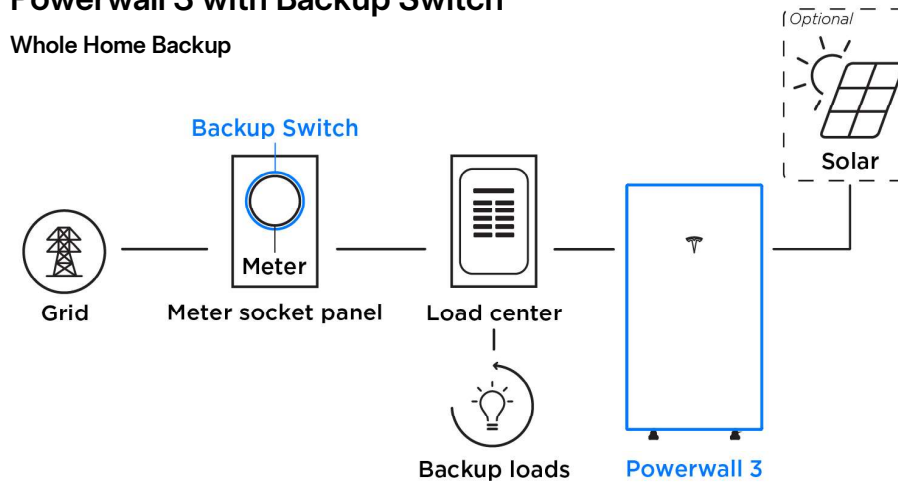
## Powerwall 3 with Gateway 3

Whole Home Backup



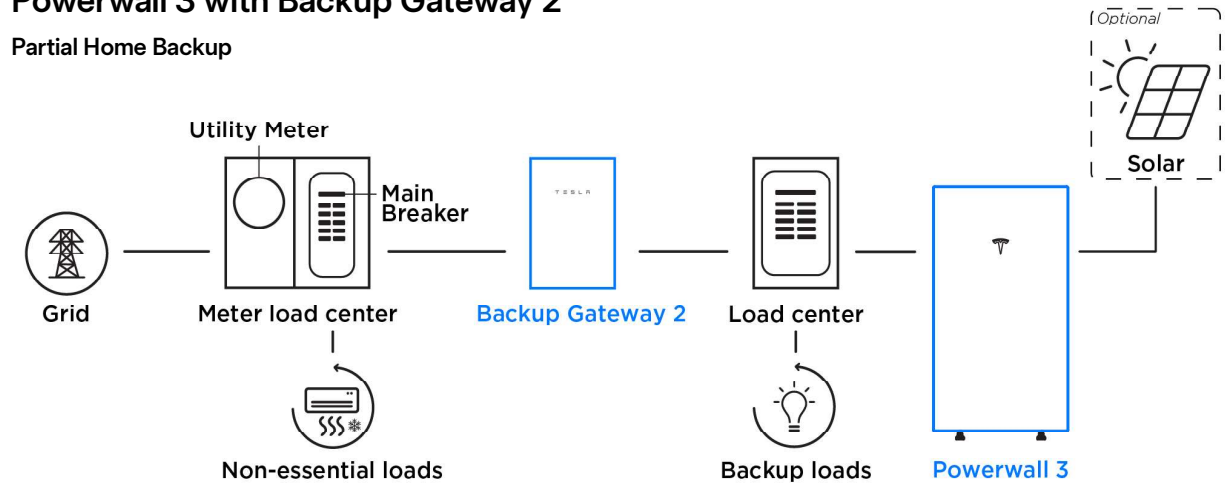
## Powerwall 3 with Backup Switch

Whole Home Backup



## Powerwall 3 with Backup Gateway 2

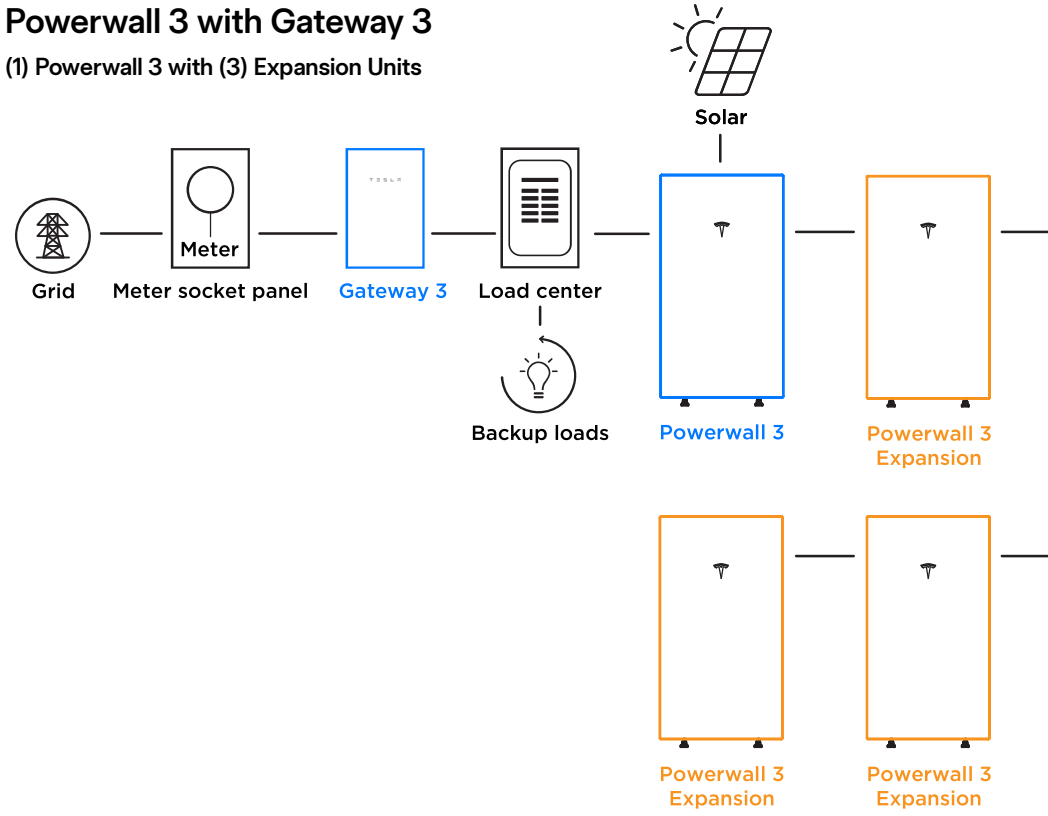
Partial Home Backup



# Powerwall 3 Example System Configurations

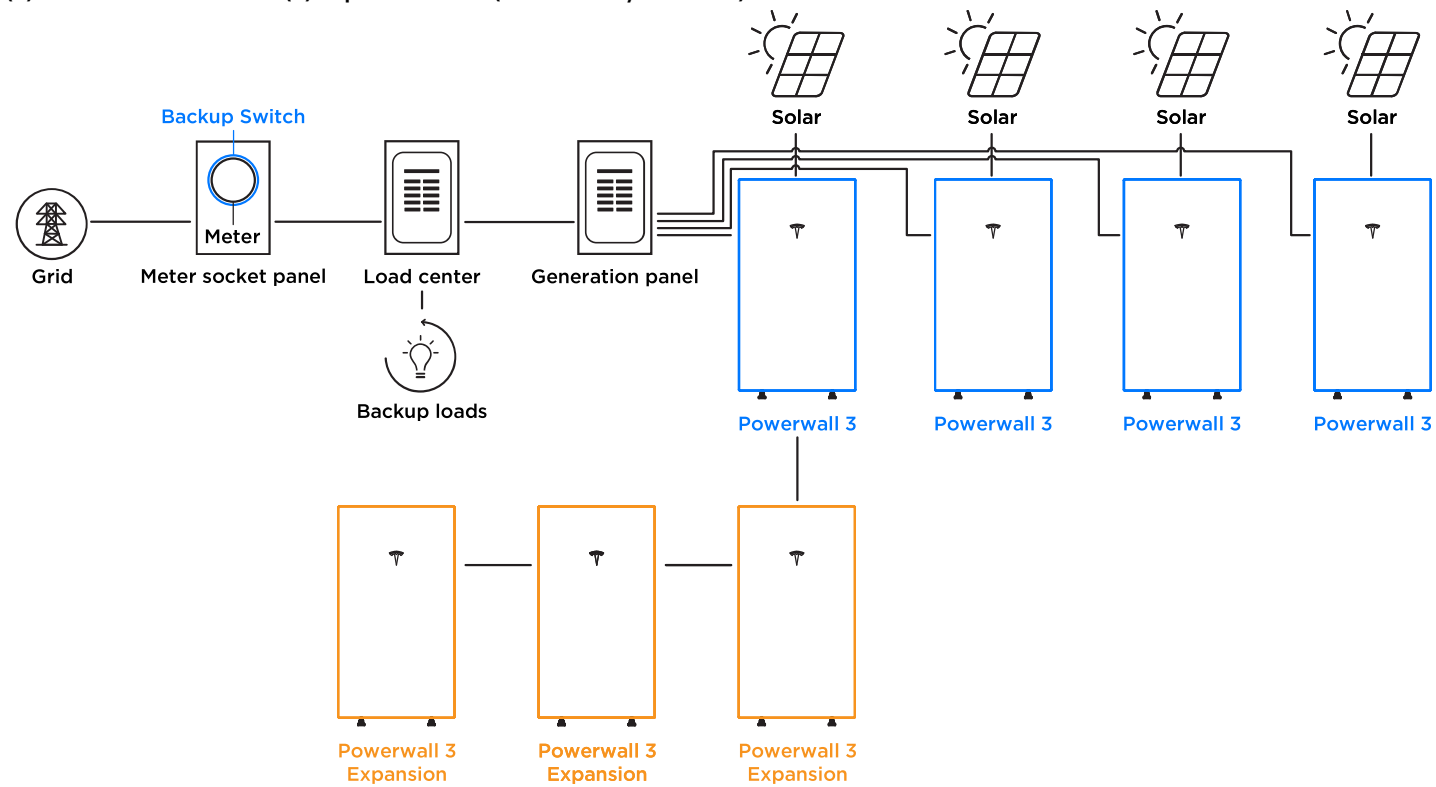
## Powerwall 3 with Gateway 3

(1) Powerwall 3 with (3) Expansion Units

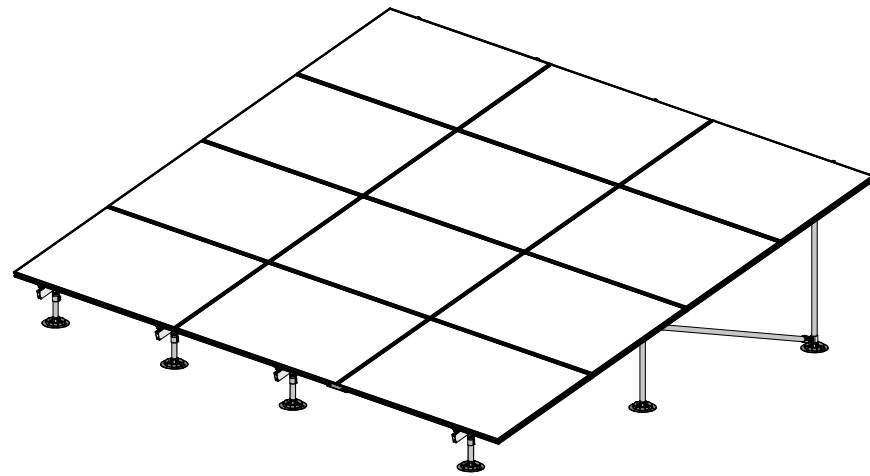


## Powerwall 3 with Backup Switch

(4) Powerwall 3 Units with (3) Expansion Units (Maximum System Size)



**ZS Ramp**  
for residential low-slope roofs



ZS Ramp Array



**Description**

- PV Mounting Solution for Residential Low-Slope Roofs

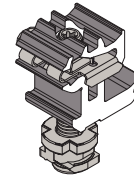
**Specifications**

- Tilt Angle: 0-15 degrees
- Designed for low slope roofs
- Corrosion resistant materials (Aluminum, Stainless Steel)
- ZS Ramp has a UL 1703 Class "A" system level fire rating when installed with modules from any manufacturer with a Type 1 or Type 2 fire classification.
- UL listed to UL 2703

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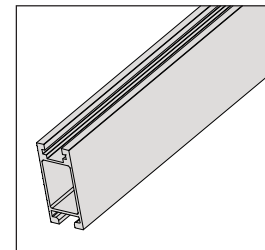
**Components**

**Cam Foot V2**



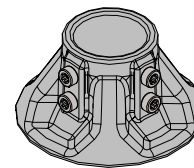
Part No. 850-1564  
UL listed to UL 2703

**Rail**



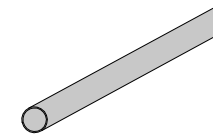
Part No. 850-1568  
850-1567  
850-1566  
and 850-1565  
UL listed to UL 2703

**Base Foot**



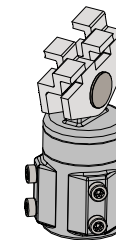
Part No. 850-1563  
UL listed to UL 2703

**Mechanical Tubing (MT)**



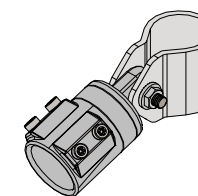
Part No. 850-1583  
UL listed to UL 2703  
1.51" Outer Diameter

**Post Mount**



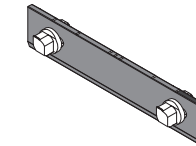
Part No. 850-1561  
UL listed to UL 2703

**Cross Brace Assembly**



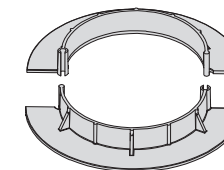
Part No. 850-1636  
UL listed to UL 2703

**Interlock**



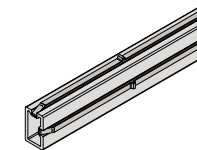
Part No. 850-1388 or 850-1613  
UL listed to UL 2703

**Sealant Ring**



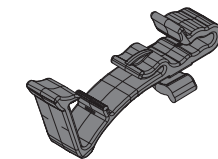
Part No. 850-1638

**Splice Assembly, Ramp**



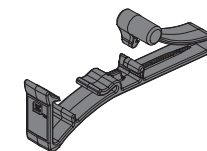
Part No. 850-1635  
UL listed to UL 2703

**DC Wire Clip**



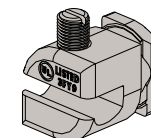
Part No. 850-1509  
UL listed to UL 1565

**Home Run Wire Clip**



Part No. 850-1510  
UL listed to UL 1565

**Ground Zep**



Part No. 850-1511  
UL listed to UL 467 and  
UL 2703

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# MCI WIRING DETAIL

## GENERAL NOTES

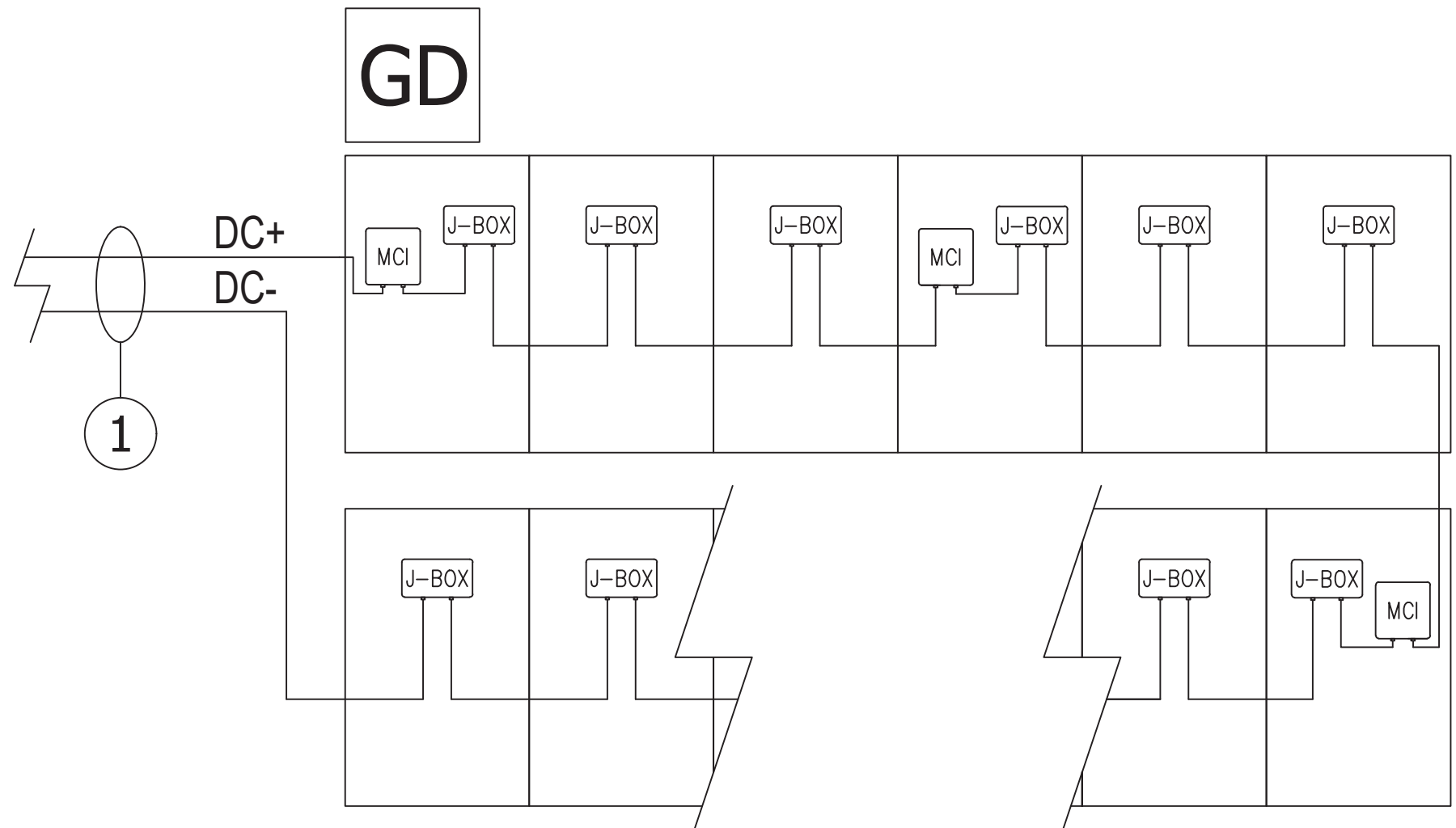
- DRAWING OF STANDARD MCI WIRING DETAIL FOR ANY GIVEN STRING LENGTH
- IF INITIATED, RAPID SHUTDOWN OCCURS WITHIN 30 SECONDS OF ACTIVATION AND LIMITS VOLTAGE ON THE ROOF TO NO GREATER THAN 165V (690.12.B.2.1)
- MID CIRCUIT INTERRUPTER (MCI) IS A UL 1741 PVRSE CERTIFIED RAPID SHUTDOWN DEVICE (RSD)

## RETROFIT PV MODULES

- MCIS ARE LOCATED AT ROOF LEVEL, JUST UNDER THE PV MODULES IN ACCORDANCE WITH 690.12 REQUIREMENTS
- THE QUANTITY OF MCIS PER STRING IS DETERMINED BY STRING LENGTH
  - NUMBER OF MODULES BETWEEN MCI UNITS = 0-3
  - MAXIMUM NUMBER OF MODULES PER MCI UNIT = 3
  - MINIMUM NUMBER MCI UNITS = MODULE COUNT/3

\*Exception: Tesla (Longi) modules installed in locations where the max Voc for 3 modules at low design temperature exceeds 165V shall be limited to 2 modules between MCIs.

PLEASE REFER TO MCI CUTSHEET AND PVRSA INSERT FOR MORE INFORMATION



① (2) AWG, PV Wire, 600V, Black

DC

# Solar Shutdown Device 2 Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Powerwall+ or Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

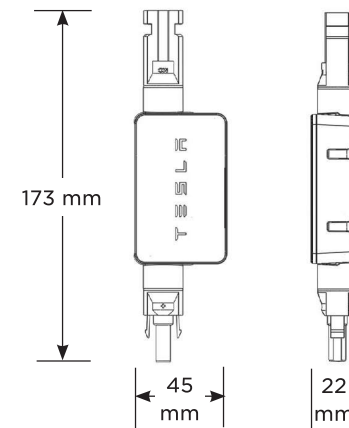
Electrical Specifications	Nominal Input DC Current Rating ( $I_{MP}$ )	13 A
	Maximum Input Short Circuit Current ( $I_{SC}$ )	17 A
	Maximum System Voltage (PVHCS)	1000 V DC

RSD Module Performance	Maximum Number of Devices per String	5
	Control	Power Line Excitation
	Passive State	Normally Open
	Maximum Power Consumption	7 W
	Warranty	25 years

Environmental Specifications	Ambient Temperature	-45°C to 70°C (-49°F to 158°F)
	Enclosure Rating	NEMA 4X / IP65

Compliance Information	Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)
	RSD Initiation Method	PV System AC Breaker or Switch
	Compatible Equipment	See Compatibility Table below

Mechanical Specifications	Model Number	MCI-2
	Electrical Connections	MC4 Connector
	Housing	Plastic
	Dimensions	173 x 45 x 22 mm (6.8 x 1.8 x 0.9 in)
	Weight	120 g (0.26 lb)



## UL 3741 PV Hazard Control (and PVRSA) Compatibility

Tesla Solar Roof and Tesla/Zep ZS Arrays using the following modules are certified to UL 3741 and UL 1741 PVRSA when installed with Powerwall+ or Tesla Solar Inverter and Solar Shutdown Devices. See [Powerwall+ / Tesla Solar Inverter Rapid Shutdown: Module Selection Based on PV Hazard Control System Listing](#) for guidance on installing other modules.

Brand	Model	Required Solar Shutdown Devices
Tesla	Solar Roof V3	1 Solar Shutdown Device per 10 modules
Tesla	Tesla TxxxS (where xxx = 405 to 450 W, increments of 5) Tesla TxxxH (where xxx = 395 to 415 W, increments of 5)	1 Solar Shutdown Device per 3 modules <sup>1</sup>
Hanwha	Q.PEAK DUO BLK-G5 or Q.PEAK DUO BLK-G6+	1 Solar Shutdown Device per 3 modules

<sup>1</sup>Exception: Tesla solar modules installed in locations where the max Voc for three modules at low design temperatures exceeds 165 V shall be limited to two modules between Solar Shutdown Devices.

**AFFIDAVIT OF POSTING**

STATE OF ARIZONA )

) ss:

County of Maricopa )

I, Tim Willsey, depose and state that the attached notice, of proposed application Mian Residence located at 7150 N 64th Pl for the (Planning Commission/Town Council/Board of Adjustment/Hillside Committee) meeting date of April 15, 2026 is a true and correct copy of a notice which I cause to be posted by the following day of the week Friday, and on the following date April 3, 2026 in the following location(s):

All in the Town of Paradise Valley, Arizona and County and State aforesaid, the same being public places in said County and in the following locations:

All to the Town of Paradise Valley, Arizona and County and State aforesaid.

DATED this 3rd day of April, 2026.

Tim Willsey  
Signature

This affidavit was SUBSCRIBED AND SWORN to before me this 3rd day of April, 2026

David Connor Sands  
NOTARY PUBLIC 04/03/26

My commission expires:  
02/03/28







## Standard Approval Information

1. All construction documents submitted for permit reviews shall include all approved Hillside-approved documents, including but not limited to, approved material references, cross sections, landscape plans, lighting plans, and lighting specifications. Any changes to the Hillside-approved plans may result in delays in permit plan review and inspection processes. Any proposed changes should be reported to the Staff to determine compliance with Hillside Development Regulations. Changes may be subject to a Staff, Chair, or Committee review.
2. The Applicant shall submit a Construction Staging Plan to the Town per the Hillside Safety Improvement Measures and Process Manual for review and approval prior to being issued a building permit.
3. The Applicant shall submit a liability insurance policy for the proposed project in the amount of \$2 million per occurrence and \$5 million aggregate naming the Town of Paradise Valley as an additional insured prior to being issued a building permit.
4. All construction parking shall be located on the property as much as possible. Any offsite parking shall be confined to the adjacent streets along the immediate property frontage. All offsite parking shall be located on the same side of the street. No construction materials will be allowed to be stored on the Town's right-of-way.
5. No final approval or certificate of occupancy shall be issued until all Hillside stipulations and all Town Code requirements are complied with, including, but not limited to, landscaping, fire flow, fire safety and all onsite and offsite improvements.
6. Noise from construction that can be heard off-site, including, but not limited to, hydraulic ram hammers, equipment used to cut through rock, machinery with audible back-up warning devices, powered machinery, truck delivery and idling, constant and persistent hammering, shall comply with Article 8-10, Nuisance Noise, as set forth in the Town Code. Heavy Equipment and construction-related deliveries are generally limited between the hours of 7:00 a.m. and 5:00 p.m. Monday through Friday; no work on Saturday, Sunday or legal holidays. Exceptions include a one hour early start time in summer, time exceptions granted by the Town Manager, and construction not defined as Heavy Equipment or deliveries that can occur outside the 7:00 a.m. to 5:00 p.m., Monday through Friday, time frame.



## Action Report

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**File #:** 26-085

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**AGENDA TITLE:**

**Concept Review for a Major Remodel  
4628 East Crystal Lane (APN 169-11-043)**

**STAFF CONTACT:**

Jose Mendez, 480-348-3519  
Juan Gonzalez Jr., 480-348-3528

**TOWN**  
*Of*  
**PARADISE VALLEY**



**STAFF REPORT**

**TO:** Hillside Building Committee

**FROM:** Chad Weaver, Acting Community Development Director  
Paul Michaud, Planning Manager  
Shar Johnson, Town Engineer  
Jose Mendez, Hillside Development Planner  
Juan Gonzalez Jr., Hillside Associate Engineer

**DATE:** April 15, 2026

**DEPARTMENT:** Community Development Department  
Jose Mendez, (480)348-3519

**AGENDA TITLE:**  
**Concept Review**  
**Major Remodel to an existing Single Family Residence**  
Jack Black Architect  
4628 E Crystal Lane (APN 169-11-043)  
#HILL-26-09

**RECOMMENDATION:**  
No recommendation is provided for the Concept Review meeting. The Hillside Building Committee will discuss, review, and give guidance to the applicant for Case #HILL-26-09, a request by Jack Black, at 4628 E Crystal Lane, for a Major Remodel to the existing Single-Family Residence.

**BACKGROUND/DISCUSSION/SUMMARY (PROVIDED BY APPLICANT)**

The request is for a Major Remodel and addition to the existing Single-Family Residence. The applicant proposes to update and remodel the existing 4,537 SF home and add 2,969 SF for a new total of 7,506 SF.

Lot Data	
1. Area of Lot	0.95 ac or 41,525 SF
2. Area Under Roof	4,537 SF (existing) 7,506 SF (proposed)
3. Floor Area Ratio	18.08%
4. Building Site Slope	Approximately 12.5%
5. Allowable Disturbed Area	17,776 SF (42.81%)
6. Existing Gross Disturbed Area	21,321.8 SF (48.16%)
7. Proposed Gross Disturbed Area	22,512.9 (50.85%)

8. Maximum Building Height	Approximately 20 ft - 0 in
9. Overall Height	Approximately 22 ft - 0 in
10. Volume of Cut/Fill	TBD
11. Hillside Assurance	TBD

Single Family Residence

The request is to modify/remodel the existing Single-Family Residence with 3,536 SF livable and add 1,384 SF of new livable plus a garage and mechanical room addition for a new livable 4,920 SF and a total 7,506 SF.

Variance

N/A

Guesthouse and/or Accessory Structures

N/A

Driveway

Driveway entry to property will remain the same and is proposed to be expanded in the rear.

Pool

The existing pool towards the south of the home will remain.

Solar

N/A

Walls and Fences

The applicant is proposing to add entry gates and add additional walls and fences to surround the home that Town staff finds are not the minimum lengths necessary to secure the pool area or are in character for hillside. The proposed fence will enclose the auto-court, a portion of yard area to the east, and pool area. Walls and fences that are allowed on flat land are prohibited or limited on Hillside designated areas except for the following walls and fences: *Retaining Walls, pool barriers, walls used to screen mechanical equipment, Driveway columns and entry gates, and tennis/sport court fencing are allowed provided that they are of minimum lengths and heights, as further specified below, and are approved by the Hillside Building Committee.*

*Article XXII - Hillside Development Regulations.*

*Section 2207 DEVELOPMENT STANDARDS VI. WALLS AND FENCES.*

*C. Walls that are otherwise permissible in Article XXIV are prohibited in the Hillside Development Area. Retaining Walls, pool barriers, walls used to screen mechanical equipment, Driveway columns and entry gates, and tennis/sport court fencing are allowed provided that they are of minimum lengths and heights, as further specified below, and are approved by the Hillside Building Committee.*

*A. Curbs 8 inches or less in height above Finished Grade are not considered walls.*

*B. No more than 300 total linear feet of wall shall be visible from any point on the property line. All pool barriers shall be View Fencing. View Fencing is not calculated in the 300 foot*

maximum allowable wall length.

C. Walls that are otherwise permissible in Article XXIV are prohibited in the Hillside Development Area. Retaining Walls, pool barriers, walls used to screen mechanical equipment, Driveway columns and entry gates, and tennis/sport court fencing are allowed provided that they are of minimum lengths and heights, as further specified below, and are approved by the Hillside Building Committee.

1. Retaining Walls:

a. The intent of the Retaining Wall requirements is to mitigate the massing and impact of walls on the hillside and preserve the characteristics of the desert. The objective is to allow only the minimum amount of Retaining Walls needed to access the property, retain Cut and Fill, and screen mechanical equipment and windows of interior bathroom areas. b. Where Retaining Walls are provided, they shall meet the setback requirements of Article XXIV, Height and Setback Regulations, unless needed to access the property (such as Driveway Retaining Walls) or deemed necessary by the Town Engineer and the Community Development Director to prevent erosion or flooding. c. The maximum length of any continuous Retaining Wall shall not be more than 100 linear feet. The maximum height of any Retaining Wall shall not be more than 8 feet. The height of a Retaining Wall is measured from the low side of Natural Grade when retaining Fill slopes and from Finished Grade when retaining Cut slopes to the top of the wall; whether the top is retaining earth or not. d. Retaining Walls shall be used for the purpose of containing Fill material or for minimizing Cut or Fill slopes. The Retaining Wall may only extend six (6) inches above the material it is retaining. e. A terraced combination of Retaining Walls shall be measured as a single Retaining Wall provided the combined walls are: 1) no more than eight (8) feet total vertical height; 2) terraced with a minimum distance between of four (4) feet and a maximum separation of eight (8) feet; and 3) contain appropriate vegetation between the walls so as to soften the visual impact of the combined walls (see FIGURE 8). These separation requirements apply to any single Lot and do not apply to adjoining walls on neighboring properties. f. When a safety fence, on top of a Retaining Wall, is required by code it shall be a View Fence, with a minimum height per building code and a maximum height up to 42" (as determined by the Hillside Building Committee), and shall be painted to blend with surrounding natural colors. g. Where Retaining Walls are provided they shall be color treated, textured, or veneered to blend in with the surrounding natural colors and textures of the native rock and soils at the site.

2. Pool Barriers: All pool barriers shall be View Fencing. The pool barrier shall be the minimum amount that is needed to secure the pool and that is appropriate for the site.

3. Screen Walls: These walls may be solid walls provided they are of minimum height and length needed to screen the mechanical equipment, garbage cans, or windows of interior bathroom areas, and shall not exceed six (6) feet in height. Screen walls over 6 feet in height may be allowed, at the discretion of the Hillside Building Committee, to properly screen the mechanical equipment or windows of interior bathroom areas; provided, 1) such walls meet the allowable setbacks and height of an accessory structure, and 2) screening area surrounded by screen walls is calculated as part of the allowable floor area.

5. Driveway columns and entry gates may be located ten (10) feet or more from the property line. The columns and gate are limited to six (6) feet in

height and the columns may be a maximum size of two (2) feet by two (2) feet. Electrically controlled gates must be equipped with an approved key switch located as far as possible from the right-of-way

6. Driveway Retaining Walls. Driveway Retaining Walls may extend 18 inches above the driving surface provided the Retaining Wall does not exceed the 8-foot height limit. When a safety fence on top of a Driveway Retaining Wall is required by code, it shall be a View Fence with a minimum height per building code and a maximum height of 42” (as deemed appropriate by the Hillside Building Committee) and shall be painted to blend with surrounding natural colors. The Retaining Wall must comply with the 8-foot height limit; however, the view guard is not limited to the 8 foot Retaining Wall height limit..

**Building Materials**

The applicant has provided building materials for the Concept Review. Existing “adobe” block, light brown stucco, light bronze, and rusted panels. A dark brown roof, dark bronze window mullions, and a red accent for the fireplace and gates. All materials will be tested prior to Formal Review and are limited to a Light Reflective Value (LRV) of 38 or less, per Hillside Development Regulations.

**Hardscape Materials**

Applicant did not provide any hardscape materials for Concept Review.

**Building Lighting**

The applicant provided the following proposed light fixtures:

<b>Exterior Light Fixtures</b>				
<b>Label</b>	<b>Type</b>	<b>Location/Application</b>	<b>Manufacturer/Model</b>	<b>Finish</b>
(F1)	Recessed Wall sconce	Entry - Wall Mount	Svelte 60 inch	Bronze
(F2)	Recessed wall sconce	exterior Door and Patio	Svelte 48 inch	Bronze
(F3)	Path light	Driveway and Paths	BI Pin light	Bronze
(F4)	Path Light	Pool Deck and Yard	FX- MK Path light	Bronze
(F5)	Step Light	Stairs/ Wall Integrated	Sonic Step Light	Bronze

The two proposed building mounted light fixtures are F1 and F2 “Recessed wall sconce lights” Svelte 60” and 48” are not Hillside compliant lights as they light up the walls and architecture of the home. Both lights a dimmable but have lumen counts that exceed the maximum 750 lumen maximum. F1 60” has a lumen output of 2300 lumens and F2 48” has a lumen count of 1850 lumens. Per code: *Article XXII - Hillside Development Regulations.*

**Section 2208 OUTDOOR LIGHTING**

A. Purpose: The intent of these lighting requirements is to preserve the low light

level conditions that are inherently characteristic of the desert. The objective is to allow only the quantity and level of lighting necessary for safety, security and the enjoyment of outdoor living while protecting against direct glare and excessive lighting; protecting the ability to view the night sky; and preventing light trespass.

C. Design Standards:

1. All building mounted light fixtures shall be fully shielded. Recessed lights in exterior soffits, eaves, or ceilings shall have a 45°cutoff. At the main entry of the primary structure, a maximum of two (2) translucent fixtures may be permitted as long as the total lumens, per fixture, do not exceed a maximum of 750 lumens. All other entrances, excluding garage doors, shall be limited to no more than one (1) fixture.
2. All fixtures, unless otherwise allowed, shall be directed downward and properly aimed on the targeted areas to maximize their effectiveness and minimize the total number of lighting fixtures.
3. Building mounted lighting must be directed downward away from adjacent Lots, streets, undisturbed Areas, and open spaces, and may not be used to light walls or building elements for decorative purposes. Fixture F1 and F2 are wall mounted lights that light up the walls.

The applicant provided an alternative light fixture *Treva 29005DX-LL* with 500 lumens.

Landscape & Driveway Lighting

The applicant is proposing three types of landscape light fixtures **Alliance PL300** (250 maximum lumens), **FX luminaire M-PK** (152 lumens), Step lights **SONIC ER3005** (250 maximum lumens). The landscape lights will be required to be setback 10 feet from the property line and the lights leading up the driveway will need to be staggered per code: *Article XXII - Hillside Development Regulations*.

Section 2208 OUTDOOR LIGHTING:

6. A repetitive line up of lights along Driveways or walkways accessing public streets shall not be allowed. Some random lighting of Driveways or walkways accessing public streets may be allowed by the Hillside Building Committee. Driveway lights must be located on the "downhill" side and aimed toward the "uphill" side, must be fully shielded from below and only light the driveway surface. Driveway and walkway lights shall not exceed a maximum of 0.25fc at any point beyond 10 feet from the fixture.

7. Each lighting or illuminating device shall be set back from the nearest property line a minimum of ten (10) feet or a distance equal to or greater than the height of the device above natural or excavated grade, whichever is greater. As an exception a lighted entry marker may be placed on each side of the Driveway entrance. The entry marker shall not be placed within the Town right-of-way or private road areas and the total height of the marker and light shall not exceed four (4) feet above Finished Grade adjacent to the Driveway. The light source shall not exceed the equivalent projected brightness of 250 lumens.

Landscaping

The applicant provided a landscape plan with native Sonoran Desert plants per Sheet **L1**.

Mountain Profile Inviolate

At and above an elevation of 1,500 feet mean sea level, no development shall occur which will alter the mountain top ridge lines. Further, no structure may extend above a plane that originates on the Primary Ridge Line and angles downward from the Primary Ridge Line by twenty degrees. The property is not within the vicinity of a Primary Ridge Line and no further restrictions shall apply.

Land Disturbance

The building pad slope of 12.5% allows a Net disturbance of 17,776 SF (42.81%) on the lot. There has an existing gross disturbed area of 21,321.8 SF (48.16%) and a new gross disturbed area of 22,512.9 SF (50.85%) is proposed. The new net disturbance will be 16,438.9 (37.13%). The applicant will provide complete disturbance calculations prior to Formal Review.

Grading and Drainage

The applicant has provided a Grading and Drainage plan.

The proposed construction of the property shall be required to properly retain the greater of “pre vs post” or “first flush” storm water volumes for the 100-year, 2-hour rainfall event per the Town’s Storm Drainage Design Manual requirements. All historic flows shall be required to maintain the same entry and exit points on the property. The applicant has provided a preliminary grading and drainage plan, with surface basins for on-site retention. The applicant will be required to provide a more extensive grading and drainage plan prior to Formal Review, due to the size of the Major Remodel.

Sewer

No public sewer connection is available on E Crystal Lane and the applicant is proposing a septic system.

Fire Protection

Per the Fire Marshal, the site meets fire protection requirements.

Hillside Safety Improvement Plan

Safety Improvement Plan is required prior to Formal Review.

**ANALYSIS:**

The applicant has proposed a Major Remodel and addition to the existing Single-Family Residence that meets the minimum requirements of the Concept Review.

**STIPULATIONS:**

No stipulations are provided for the Concept Review.

**REQUIRED ACTION:**

The purpose of the Concept Plan Review Meeting is to discuss, review, and give suggestions and guidance to the applicant.

**NOTICING:**

Public notification was performed in accordance with the public hearing process. Staff received no comments.

**NEXT STEPS:**

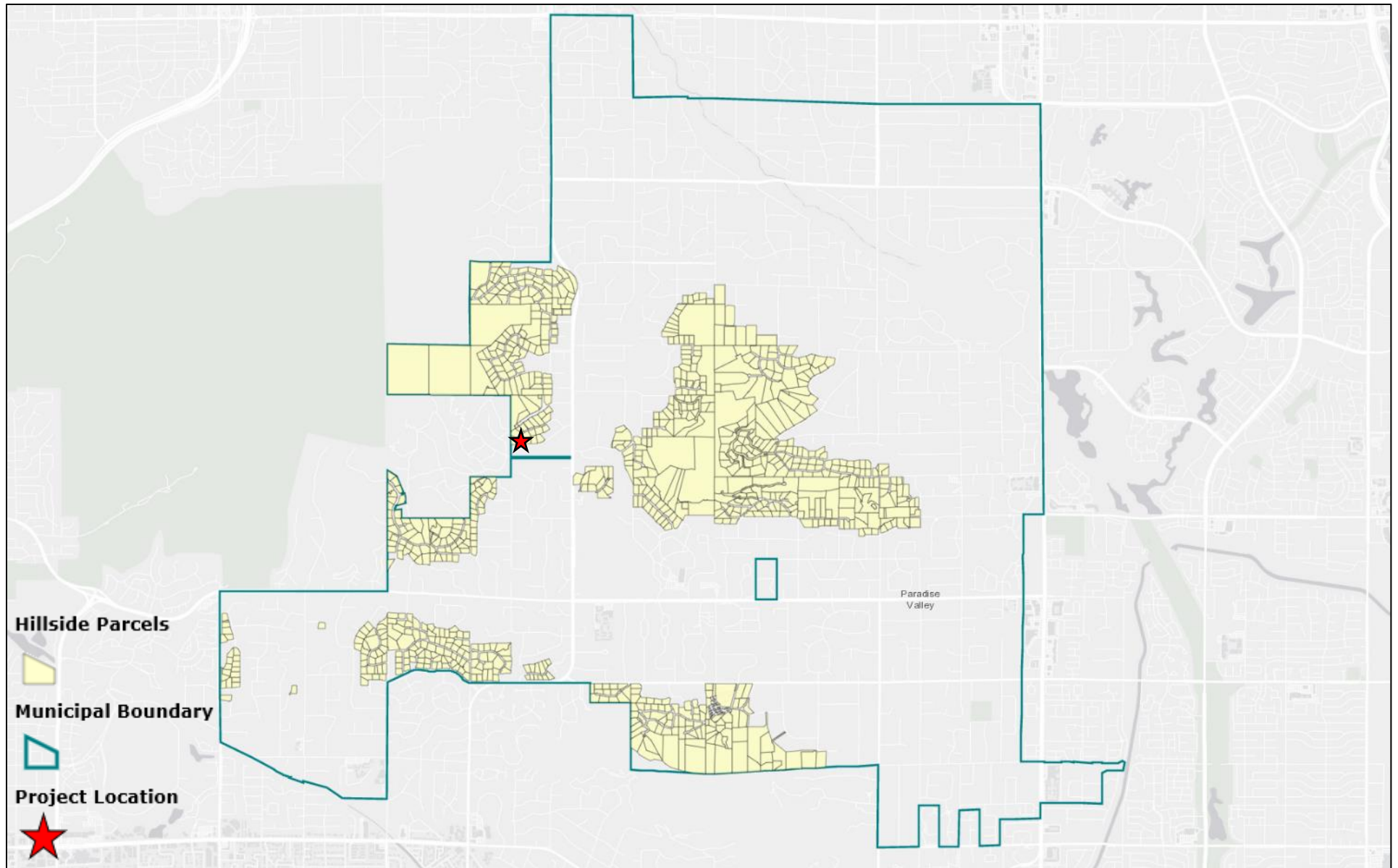
A detailed set of plans will be submitted for the Formal Review in accordance with Article XXII, Section 2206.I.

**ATTACHMENTS:**

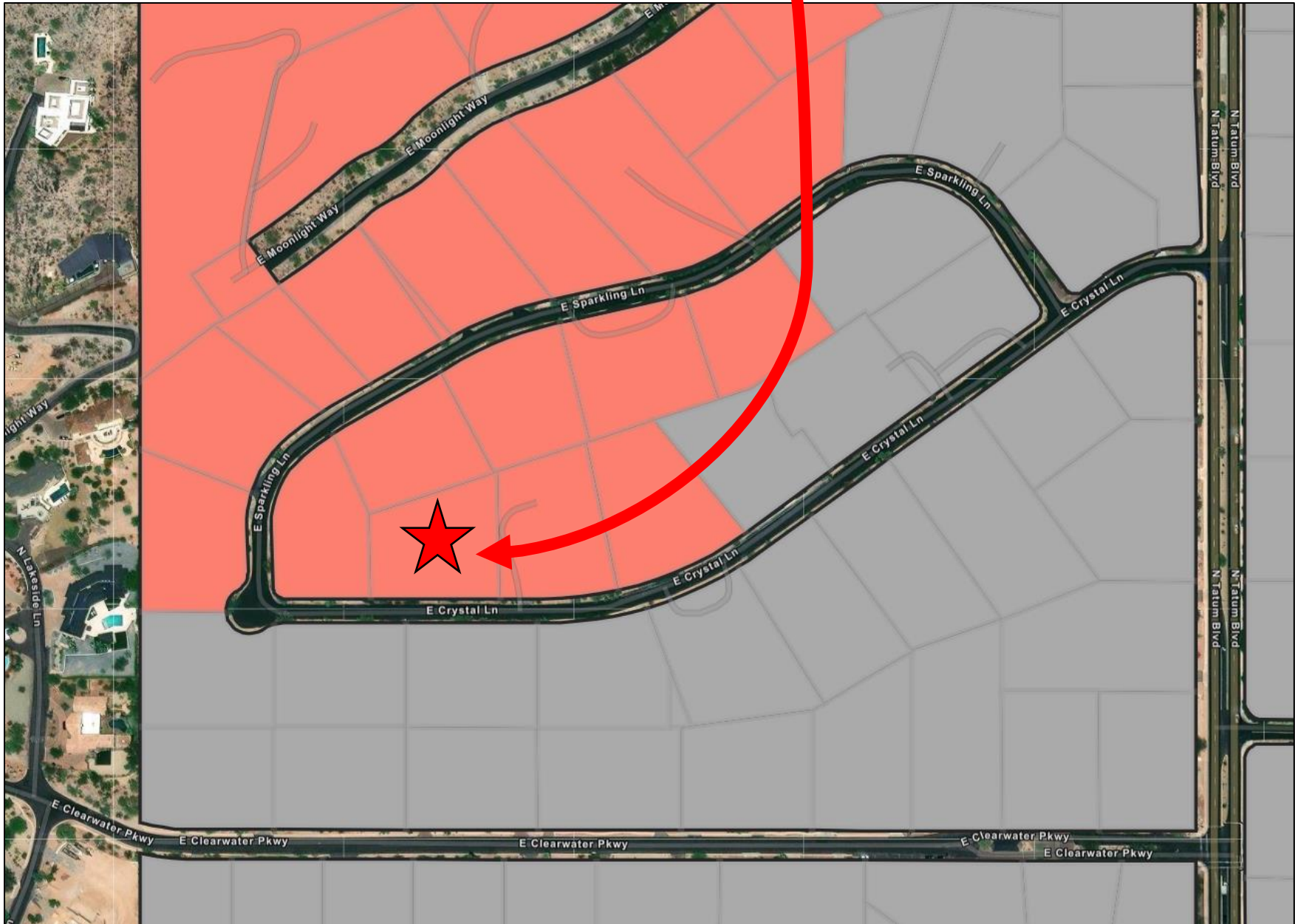
- A. Staff Report
- B. Hillside & Vicinity Maps
- C. Application
- D. Plans
- E. Notification Materials

# HILLSIDE MAP (OVERVIEW)

4628 E Crystal Lane



**ZONING MAP (ZOOM)**  
**4628 E Crystal Lane**



VICINITY MAP (ZOOM)  
4628 E Crystal Lane



TOWN  
*of*



Hillside Application  
Community Development Department  
6401 E Lincoln Drive  
Paradise Valley, AZ 85253

PARADISE VALLEY

(480) 348-3692

**HILLSIDE APPLICATION**

**DATE:** September 7,2025

**SUBDIVISION NAME:** Paradise Country Estates Lot 39

**PROPERTY ADDRESS:** 4628 East Crystal Lane

**ASSESSOR'S PARCEL NUMBER:** APN 169-11-043  
MCR 102- 28

**LEGAL DESCRIPTION:** Lot 39, of Paradise Country Estates

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SCOPE OF WORK:** \_\_\_\_\_

The existing one story residence will be renovated and expanded. Approximately 50% of the existing west end will remain but will be renovated both interior and exterior. The existing southeast end of house will be expanded to include a new great room, patios and kitchen. The east side of the existing garage will be expanded by 2 car widths as well as interior storage.

The design maintains a one story configuration.

The homes existing driveway, north motor court and south yard with swimming pool area are proposed to remain but require replaced open fencing, pool guardrail fencing and low site walls.

See attached narrative for further details.

\_\_\_\_\_

\_\_\_\_\_



Town of Paradise Valley  
6401 E Lincoln Drive  
Paradise Valley, AZ 85253  
[hillside@paradisevalleyaz.gov](mailto:hillside@paradisevalleyaz.gov)

**ARCHITECT:**

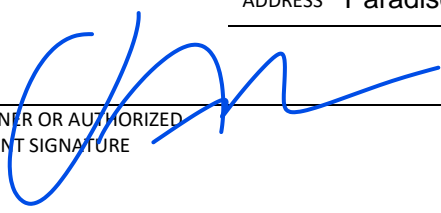
PRINT NAME	PHONE NUMBER
Jack Black AIA	602 708 0694
ADDRESS 4930 East Lincoln Drive Paradise Valley AZ	

**ENGINEER:**

PRINT NAME	PHONE NUMBER
Joe Burke, PE	623-910-1195
ADDRESS 27107 N Gidiyup Trail	
Phoenix, Az 85085	

**OWNER:**

PRINT NAME	PHONE NUMBER
Lisa and Mike Micco	303-927-9477
ADDRESS 4628 East Crystal Lane	
Paradise valley az 85253	

OWNER OR AUTHORIZED AGENT SIGNATURE	DATE
	9-10-25



Town of Paradise Valley  
 6401 E Lincoln Drive  
 Paradise Valley, AZ 85253  
[hillside@paradisevalleyaz.gov](mailto:hillside@paradisevalleyaz.gov)

# STATEMENT OF ACCURACY

## BUILDING INFORMATION<sup>1</sup>

USE	AREA (SF) OR LENGTH (FT)
LIVABLE AREA (EXISTING)	3536
LIVABLE AREA (NEW)	4980 total (1444 new add)
LIVABLE AREA (REMODEL)	2266
PERCENT NEW + REMODEL	40% new, 60% renovation

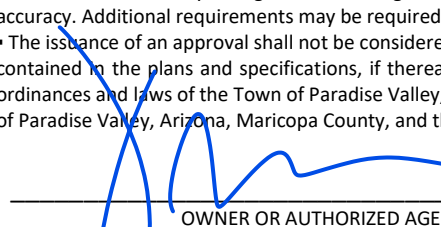
<sup>1</sup>THE FOLLOWING CONDITIONS MAY APPLY TO REMODELS OR ADDITIONS OF 50% OR GREATER: 1) ZONING ORDINANCE, ARTICLE XXIII – SECTION 2307 REQUIRES THAT NON-CONFORMING STRUCTURES BE BROUGHT INTO COMPLIANCE IF THEY DO NOT MEET CURRENT HEIGHT, SETBACK, FINISH, AND ANY OTHER APPLICABLE ORDINANCE REQUIREMENTS. 2) ZONING ORDINANCE, ARTICLE XXIV – SECTION 2415 REQUIRES THAT NON-CONFORMING WALLS BE BROUGHT BE INTO COMPLIANCE IF THEY DO NOT MEET CURRENT HEIGHT AND/OR SETBACK REQUIREMENTS. 3)TOWN CODE, CHAPTER 13 REQUIRES FIRE SPRINKLER SYSTEMS.

## VALUATION CALCULATION<sup>2</sup>

USE	UNIT - AREA (SF), LENGTH (FT), OR COUNT	VALUATION PER (UNIT)	VALUATION TOTAL
LIVABLE AREA (NEW)	1444	\$225.00	
LIVABLE AREA (REMODEL)	2266	\$112.50	
GARAGE	406 new; 968 total	\$50.00	
STORAGE	120	\$50.00	
PATIOS/RAMADAS/PORHCES	1432	\$35.00	
FENCES	480 LF	\$30.00	
POOL	ex	1% OF COST	
BBQ	1	\$4,200.00 (EA)	
FIREPLACE	2 new	\$5,250.00 (EA)	
WATER FOUNTAIN	motor court	\$1,000.00 (EA)	
WATER FEATURE	1 at ex pool	\$2,500.00 (EA)	
<b>SUM</b>	-	-	

<sup>2</sup>TOWN CODE, CHAPTER 5 REQUIRED IMPROVEMENTS MAY INCLUDE RIGHT-OF-WAY DEDICATION AND STREET IMPROVEMENTS, DRAINAGE IMPROVEMENTS, SEWER IMPROVEMENTS, FIRE HYDRANT INSTALLATION, AND ELECTRICAL UNDERGROUNDING FOR BUILDING PERMIT VALUATIONS OF \$500,000 OR GREATER CALCULATED OVER A 730 DAY PERIOD. YOU MAY USE THE TOWN MASTER FEE SCHEDULE TO DETERMINE THE MINIMUM CONSTRUCTION VALUATION: <https://www.paradisevalleyaz.gov/DocumentCenter/View/104/Master-Fee-Schedule>

## CERTIFICATION

<ul style="list-style-type: none"> <li>▪ I hereby certify that the above information and the information in this application is true and accurate. I further certify that I will comply with all Federal, State, County and Town laws relating to construction and demolition.</li> <li>▪ I understand that any changes made during or after the hillside development process may require a modification to the statement of accuracy. Additional requirements may be required for a modified scope of work.</li> <li>▪ The issuance of an approval shall not be considered as an adoption by the inspector of the manifested technical construction or demolition contained in the plans and specifications, if thereafter it can be shown that any portion of the work is in conflict with any portion of the ordinances and laws of the Town of Paradise Valley, Arizona. It is agreed that this work will be done in conformity with the laws of the Town of Paradise Valley, Arizona, Maricopa County, and the State of Arizona.</li> </ul>	<input checked="" type="checkbox"/> Authorization Letter for Agent if Value > \$25,000
 _____ OWNER OR AUTHORIZED AGENT SIGNATURE	



Town of Paradise Valley  
 6401 E Lincoln Drive  
 Paradise Valley, AZ 85253  
[hillside@paradisevalleyaz.gov](mailto:hillside@paradisevalleyaz.gov)

## Hillside Narrative

4628 East Crystal Lane

Paradise Valley, 85253

Micco Residence Renovation and Addition: Hillside Pre App Narrative

4628 East Crystal is an existing one story residence of approximately 3500 sf livable with a roof attached but freestanding garage building of 824 sf. All construction is original and dates from approximately 1969.

The home functions with the entry/ front door and garages at the north side of the site and is accessed by a paved drive on the west wrapping to the north. The existing yard and pool area is to the south/ front yard.

The site is included in the Hillside zone but has an overall height difference of only 16 to 17 feet from the south property line to the north (higher). The east to west grade delta is approximately 2 to 3 feet with the slightly higher elevations on the west.

The proposed addition is one story and is substantially positioned to the eastern side of the property. The existing driveway is reconfigured to support additional garages adjacent to the current but accessed from the North. The motor court includes a dining patio and water features. Today, this area is partially fenced and those elements will be replaced and improved with low retaining walls with open steel fencing above grade.

About 50% of the existing house, mostly on the west, remains in position but will be renovated both interior and exterior. The east end of the house is expanded beyond its current footprint and has slightly increased ceiling heights to 10 ft interior south and 17 ft interior north. The existing pool remains and is renovated in place. The existing pool fencing and graded berming around the pool will be replaced by low retaining walls with open steel rail fencing to 5-0 above pool deck.

The primary area of site impact is the east side and a series of interconnected equipment screen walls, open steel fencing and planter walls are arranged to flow with the overall grades and step in towards the house to create visual interest. The offset between finished grade and natural/existing grade is approximately 2 to 3 typically- for reference.

The existing house is middle tone (neither white or dark) mortar wash adobe/slump block. This material will be substantially maintained at the renovated portions and include new dark bronze window frames and metal surrounds. New additions are defined by medium bronze metal panels columns supporting the roof planes. Glass areas are positioned to maximize views to the south with very reduced window presence on the east. The roof fascia will be finished in medium bronze with some dark tan stucco at higher areas of walls above the roof lines.

All windows are recessed and have overhangs. Large glazing areas are deeply recessed. By patios and overhangs. More visible but solid areas of house at the garage and storage areas are wrapped in rusted metal panel. The roof finish is a dark ballast finished roof to reduce reflection and minimize contrast with the ground plane.

The overall exterior palette is intended to be very complimentary to the surrounding exposed rock hill sides and mountain textures which surrounding the neighborhood.

Owner:  
Lisa and Michael Micco  
Project:  
Micco Residence  
4628 East Crystal Lane  
Paradise Valley, Arizona 85253

Architect:  
Jack Black  
4930 East Lincoln Drive  
Paradise Valley, Arizona 85253  
602 708 0694

Civil:  
Burke Engineering  
8808 North Central, Suite 288  
Phoenix, Arizona 85020  
602 390 7999

Structural:  
Modern Structural Design  
Scott Seeman PE  
4807 S Orbit  
Mesa, Arizona 85212  
509 592 0139

Electrical:  
Rowley Engineering  
Billy Rowley  
2334 North Hunt Drive  
Mesa, Arizona 85203  
480 313 1222

Mechanical and Plumbing:  
M and P Engineering LLC  
Jim Hart PE  
414 East Baseline Rd, Suite 101  
Mesa, Arizona 85206  
602 315 7956

**Project Data**  
4628 East Crystal Lane  
Paradise Valley, Arizona 85253

Parcel ID  
# 169-11-043  
Paradise Valley Country Estates-Lot 39  
MCR # 102-28  
Lot Size 41,525 sf

Building Data  
Type V B  
Single Family Residential  
Zoning  
Paradise Valley R 43 HillSide ( pending HS Submittal)

Construction Data  
4628 East Crystal Lane

Existing Residence	
Total Existing Livable	3536 SF
Mech	75 SF
Garage	508 SF
Covered /Patio	240 SF
Total Existing Under Roof	4537 SF

Existing Area	3536 SF
Existing Removed/Demo	2266 SF
Existing Area renovated	2266 SF

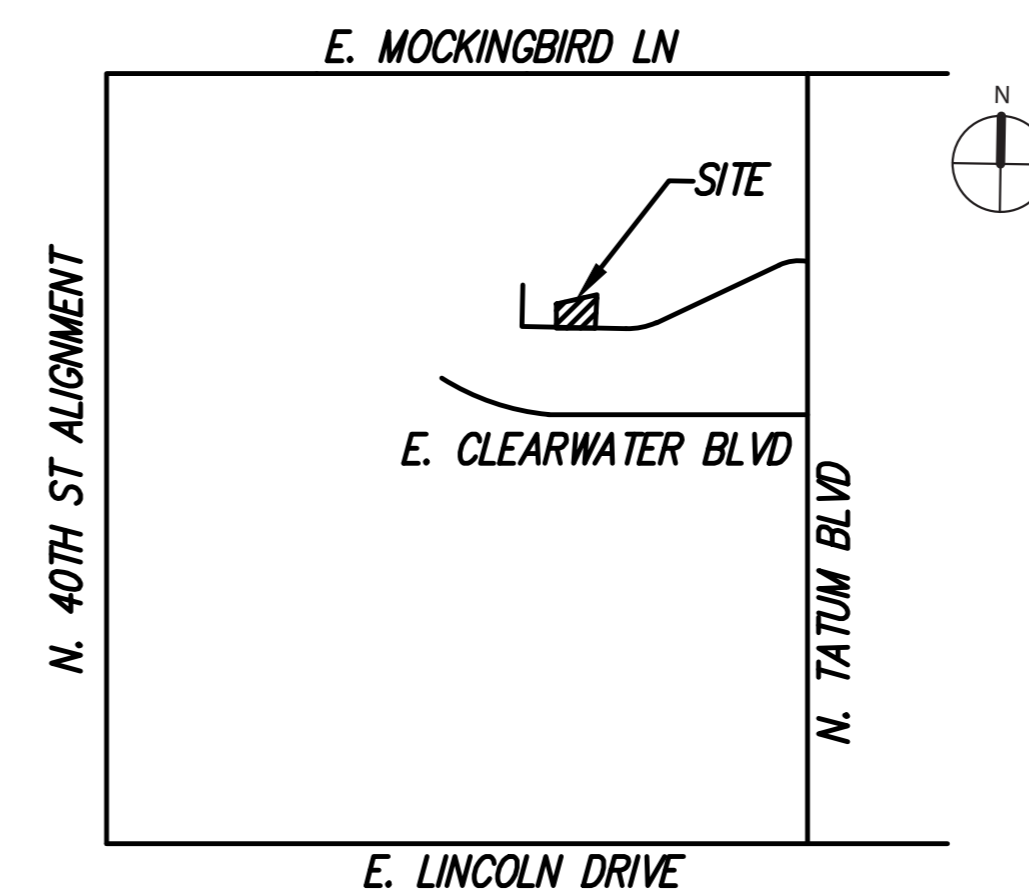
Proposed Construction totals:	
New Livable Additions (inc: New Entry, New Living Room, Family Room, Expanded Kitchen, New Powder,	1384 SF
Plus renovated existing Existing	2266 SF 1270 sf
New total Livable	4920 SF
New Garage Addition New Mech	462 SF 111 SF

Exterior Covered Areas/Porches Existing covered to remain New Covered and Overhangs	0 SF 1432 SF 1432 SF
Total Covered Exterior Under Roof	1432 SF

Site Coverages	
Livable First Level	4920 SF
Covered areas porches	1432 SF
Garage	968 SF
Mech/Storage	186 SF
Total Site Coverage Lot Area	7506 SF 41525 SF

Post Construction:  
Coverage 7506/41525=18.01% < 25% Allowable Coverage

## VICINITY MAP



## SHEET LIST

COVER SHEET  
AERIAL PHOTO - EXISTING FOR REFERENCE  
AERIAL PHOTO - EXISTING FOR REFERENCE  
AERIAL PHOTO - PROPOSED  
EXISTING BOUNDARY OF DISTURBANCE  
NEW BOUNDARY OF DISTURBANCE  
BOUNDARY OF DISTURBANCE DELTA / CALCULATIONS  
EXISTING TOPOGRAPHIC SURVEY FOR REFERENCE  
GRADING AND DRAINAGE PLAN  
GRADING SECTIONS  
NATIVE PRESERVATION SURVEY  
L1.0 - LANDSCAPE PLAN  
SITE LIGHTING PLAN  
SITE LIGHT FIXTURE CUT SHEETS  
SITE LIGHT FIXTURE CUT SHEETS  
SITE LIGHT FIXTURE CUT SHEETS  
SITE PLAN & SECTIONS  
A1.0 - SITE PLOT PLAN  
A1.1 - SITE PLAN  
COLORED SITE PLAN  
SITE PLAN - WALLS  
AXONS AND SITE WALLS - FOR REFERENCE  
EXTERIOR MATERIAL SAMPLES  
NORTH ELEVATION  
EAST ELEVATION  
SOUTH ELEVATION  
WEST ELEVATION  
MASSING PERSPECTIVES - FOR REFERENCE  
MICCO RENDERING - A  
MICCO RENDERING - A\_NOTES  
MICCO RENDERING - B  
MICCO RENDERING - B\_NOTES

# 4628 CRYSTAL

Town of Paradise Valley  
Hillside Submittal - Step 2



PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

# MICCO

AERIAL PHOTO - EXISTING FOR REFERENCE

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1/16" = 1'0"



PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

# MICCO

AERIAL PHOTO - EXISTING FOR REFERENCE

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1/16" = 1'0"



PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

# MICCO

AERIAL PHOTO - PROPOSED

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1/16" = 1'0"



**EXISTING BOUNDARY OF DISTURBED AREA:**  
 LOT SIZE: 44,270 SF  
 21,321.8 SF EXISTING BOUNDARY OF DISTURBED AREA  
 $21,321.8 / 44,270 = 48.16\%$

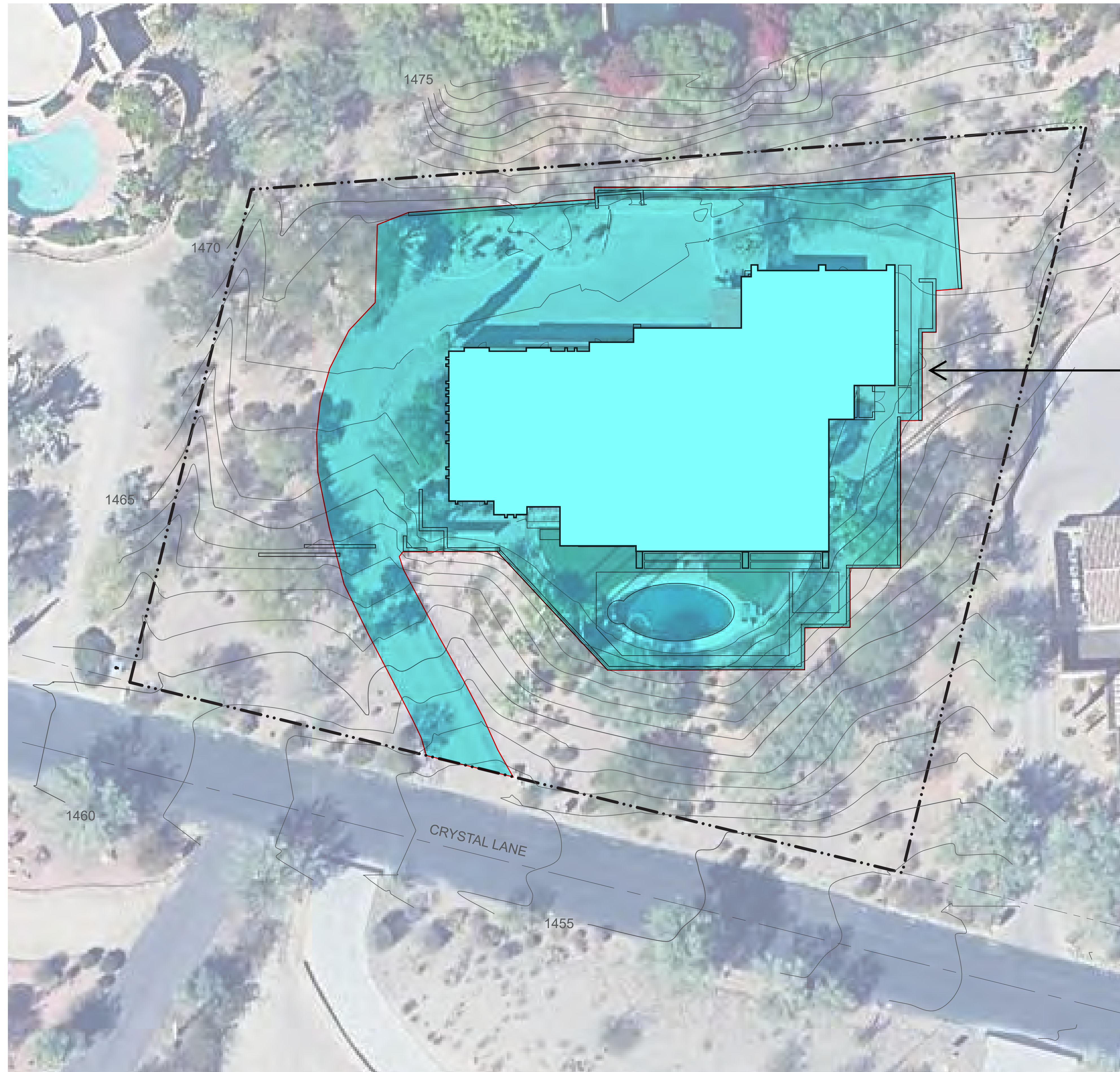
**PROJECT ADDRESS**  
 4628 E CRYSTAL LANE  
 PARADISE VALLEY, ARIZONA

**ARCHITECT**  
 Jack Black  
 602-708-0694

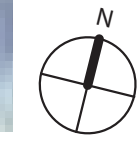
**MICCO**  
 EXISTING BOUNDARY OF DISTURBANCE

**HILLSIDE MATERIALS**

**DRAWING INFORMATION**  
 ISSUE DATE: 16 SEP 2025  
 SCALE: 1/16" = 1'0"



**NEW BOUNDARY OF DISTURBED AREA:**  
 LOT SIZE: 44,270 SF  
 22,512.9 SF NEW BOUNDARY OF DISTURBED AREA  
 $22,512.9 / 44,270 = 50.85\%$



**PROJECT ADDRESS**  
 4628 E CRYSTAL LANE  
 PARADISE VALLEY, ARIZONA

**ARCHITECT**  
 Jack Black  
 602-708-0694

**MICCO**  
 NEW BOUNDARY OF DISTURBANCE

**HILLSIDE MATERIALS**

**DRAWING INFORMATION**  
 ISSUE DATE: 16 SEP 2025  
 SCALE: 1/16" = 1'0"



BOUNDARY OF DISTURBED AREA CALCULATIONS:	
LOT SIZE:	44,270 SF
<b>EXISTING DISTURBED AREA</b>	<b>21,321.8 SF</b>
	21,321.8 / 44,270 = 48.16%
<b>NEW DISTURBED AREA</b>	<b>22,512.9 SF</b>
	22,512.9 / 44,270 = 50.85%
<b>DELTA OF NEW TO EXISTING DISTURBED AREA:</b>	
	22,512.9 SF (NEW DISTURBED AREA)
	- 21,321.8 SF (EXISTING DISTURBED AREA)
	<b>+1,191.1 SF ADDITIONAL DISTURBED AREA OVER EXISTING</b>
	<b>NET OF 2.69% INCREASE OF DISTURBED AREA TO THE SITE</b>

PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

# MICCO

BOUNDARY OF DISTURBANCE DELTA / CALCULATIONS

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1/16" = 1'0"

**NOTES**

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND REQUESTED UTILITY DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. NOT ALL UTILITY COMPANIES CONTACTED HAVE PROVIDED FACILITY MAPS FOR THEIR UNDERGROUND UTILITIES AND NOT ALL COMPANIES MARKED THEIR FACILITIES BEFORE THE FIELD SURVEY WAS COMPLETED.

THE BOUNDARY AND EASEMENT INFORMATION SHOWN HEREIN IS FOR REFERENCE ONLY. THIS INFORMATION WAS CALCULATED USING THE RECORDED PLAT OR DEED AS DESCRIBED IN THE LEGAL DESCRIPTION AND DOES NOT REPRESENT A FIELD BOUNDARY SURVEY.

THE SURVEYOR HAS RELIED SOLELY ON INFORMATION SUPPLIED TO THE SURVEYOR FROM EITHER THE CLIENT OR THE TITLE COMPANY AND HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER MATTERS THAT MAY AFFECT THE SUBJECT PROPERTY.

ON-SITE PLANT INFORMATION SHOWN HEREON IS FOR REFERENCE ONLY. SURVEYOR ASSUMES NO LIABILITY FOR THE EVALUATION, SALVAGE ABILITY, REMOVAL AND/OR RELOCATION OF ON-SITE PLANT MATERIALS. CONTACT A LANDSCAPE PROFESSIONAL FOR MORE INFORMATION.

**LEGAL DESCRIPTION**

LOT 39, OF PARADISE COUNTRY ESTATES, ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA, RECORDED BOOK 102 OF MAPS, PAGE 28.

**ADDRESS**

4628 EAST CRYSTAL LANE  
PARADISE VALLEY, ARIZONA 85253  
APN 169-11-043

**BASIS OF BEARING**

THE CENTER LINE OF CRYSTAL LANE. SAID LINE BEARS SOUTH 89 DEGREES 58 MINUTES 21 SECONDS WEST.

**BENCHMARK**

FOUND 3" PARADISE VALLEY BRASS CAP FLUSH NO STAMPING AT THE INTERSECTION OF INDIAN BEND ROAD & 48TH STREET.

ELEVATION = 1419.804 (NAVD88)

**AREA**

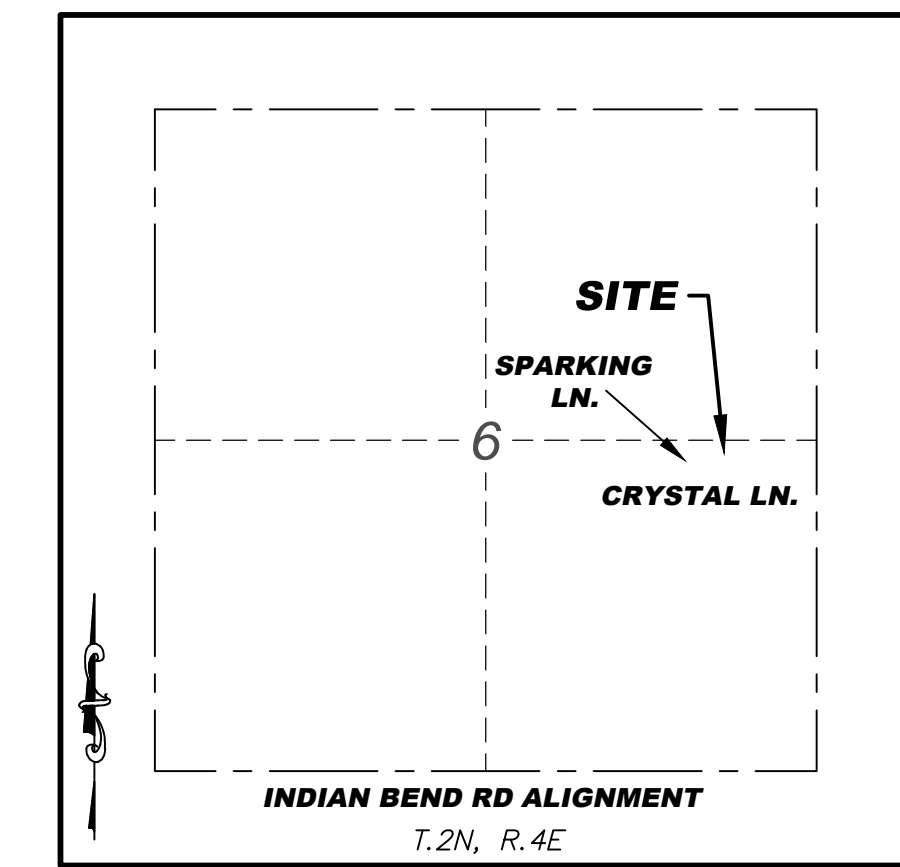
SUBJECT PROPERTY CONTAINS 44,270 SQUARE FEET OR 1.016 ACRES, MORE OR LESS.

**FLOOD ZONE**

ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C1765 L, DATED 10/16/2013, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X". AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

**TOPOGRAPHIC SURVEY  
4628 EAST CRYSTAL LANE**

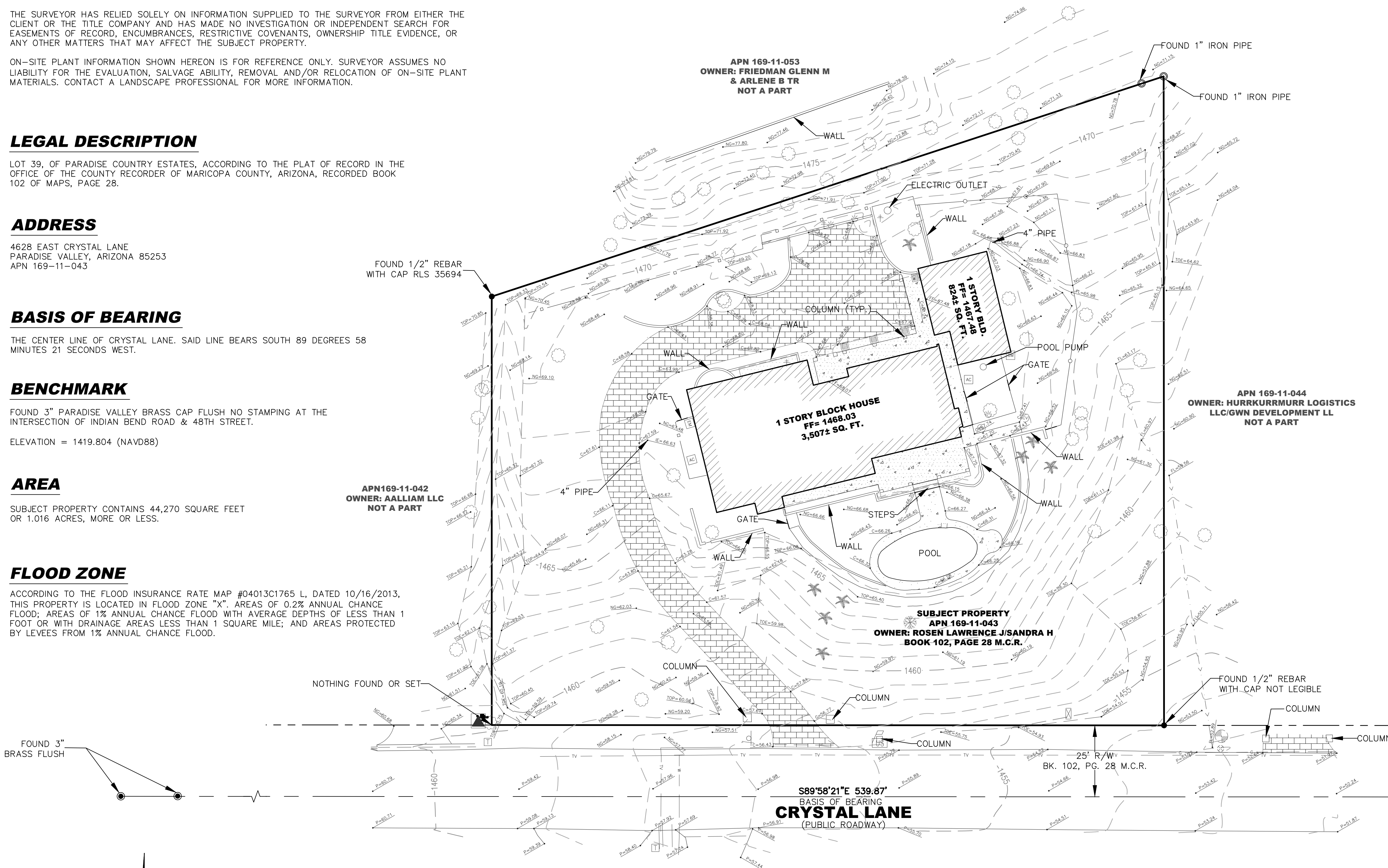
A PORTION OF THE EAST HALF OF SECTION 6, TOWNSHIP 2 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



**VICINITY MAP**  
N.T.S.

**LEGEND**

- FOUND BRASS CAP FLUSH
- ⊗ FOUND CHISELED 'X'
- FOUND IRON PIPE
- FOUND 1/2" REBAR
- ☐ AIR CONDITIONER
- ☐ CATCH BASIN
- ▲ ELECTRIC TRANSFORMER
- ⊕ ELECTRIC METER
- ⊕ FIRE HYDRANT
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ FLOOD LIGHT
- ⊕ GAS METER
- ⊕ HOSE BIB
- ⊕ IRRIGATION VALVE
- ⊕ MAIL BOX
- ⊕ PALM TREE
- ⊕ PALO VERDE TREE
- ⊕ SIGN
- ⊕ TELEPHONE RISER
- R/W RIGHT OF WAY
- M.C.R. MARICOPA COUNTY RECORDS
- APN ASSESSORS PARCEL NUMBER
- ▨ BUILDING
- ▨ CONCRETE AREA
- ▨ OVERHANG AREA
- ▨ PAVERS/BRICK AREA
- BOUNDARY LINE
- CENTER LINE
- ADJACENT BOUNDARY LINE
- WOOD FENCE
- CHAIN LINK FENCE
- BLUE STAKE TELEVISION LINE
- BLUE STAKE GAS LINE
- BLUE STAKE WATER LINE
- FLOW LINE
- GRADE BREAK LINE



S89°58'21"E 539.87'  
BASIS OF BEARING  
**CRYSTAL LANE**  
(PUBLIC ROADWAY)

**EXISTING SURVEY  
FOR REFERENCE**

**CERTIFICATION**

THIS IS TO CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A SURVEY MADE UNDER MY SUPERVISION DURING THE MONTH OF MAY, 2021, AND THAT THE SURVEY IS CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

ANTHONY SLATER  
22425 N. 16TH STREET, SUITE 1  
PHOENIX, ARIZONA 85024  
PHONE: 480-922-0780  
TSLATER@RICKENGINEERING.COM



SURVEYOR:  
**SURVEY INNOVATION GROUP, INC.**  
Land Survey Services  
22425 N 16TH STREET SUITE #1  
PHOENIX, AZ 85024

PROJECT NO: 5933  
DRAWN BY: RNT  
CHECKED BY: TS  
SCALE: 1"=20'  
DATE: 5-14-2021

TOPOGRAPHIC SURVEY  
**628 EAST CRYSTAL LANE**  
PARADISE VALLEY, ARIZONA



DRAWING NO.  
**TOPO**  
SHEET NO. 1 OF 1

C:\RICK\Projects\PO55600\5933\_4628\_E\_Crystal\_Ln\Drawing\5933\_Topo.dwg — plotted by: halamantakes ON 2021-05-18 @ 11:09 — ctsisig bw.ctb — ©2021 Rick Engineering Company

# GRADING AND DRAINAGE PLANS

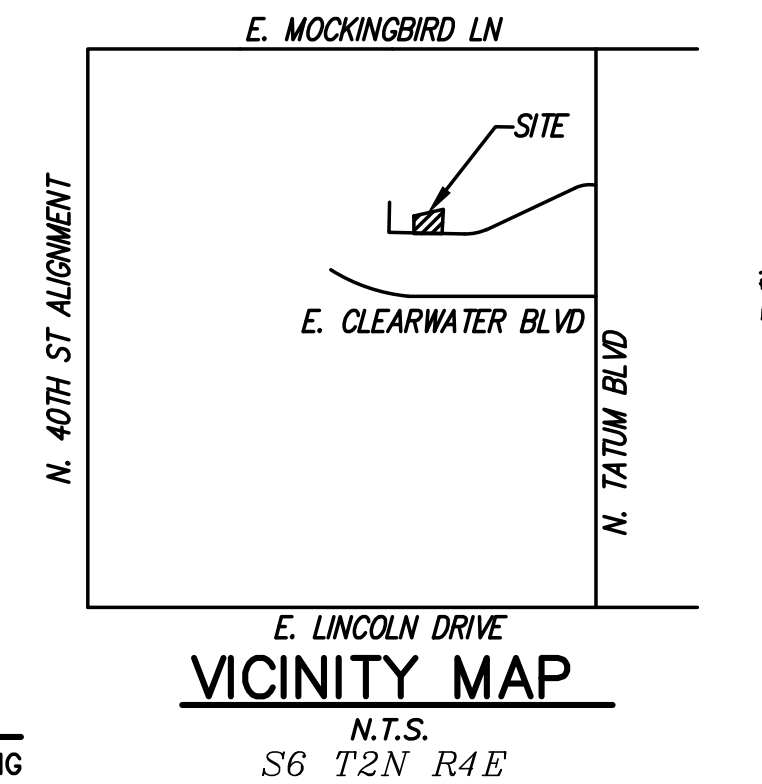
FOR  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA 85250

### BUILDING AREA

MAIN RESIDENCE LIVABLE	4920 S.F.
GARAGE	968 S.F.
COVERED PATIOS/ENTRY	1432 S.F.
MECH/STORAGE	186 S.F.
TOTAL UNDER ROOF	7,506 S.F.
TOTAL LOT AREA	41,525 S.F.
TOTAL LOT COVERAGE	18.08 %

### PROPERTY I.D.

APN 169-11-043  
**SURVEYOR**  
SURVEY INNOVATION GROUP, INC.  
22425 N 16TH STREET SUITE #1  
PHOENIX, AZ 85024  
CONTACT: ANTHONY SLATER  
PHONE: 480-922-0780  
EMAIL: tslater@rickengineering.com



### PROJECT DESCRIPTION

THIS PROJECT CONSIST OF THE REMODELING OF EXISTING HOME AND CONSTRUCTION OF NEW HOME ADDITION AND ATTACHED GARAGE.  
**BENCHMARK**  
FOUND 3" PARADISE VALLEY BRASS CAP  
FLUSH NO STAMPING AT THE INTERSECTION OF INDIAN BEND ROAD & 48TH STREET.  
ELEVATION = 1419.804 (NAVD88)

### SHEET INDEX

SHEET 1....GRADING AND DRAINAGE PLAN  
SHEET 2....GRADING AND DRAINAGE PLAN

### FEMA CLASSIFICATION

THE CURRENT FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THIS AREA, MAP NUMBER 04013C 1765L (EFFECTIVE REVISION DATE OCTOBER 16, 2013), DESIGNATES THE PROPERTY WITHIN FLOOD HAZARD ZONES X. ZONE: X IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT, OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

### NATIVE PLANT STATEMENT

ALL NATIVE PLANTS IMPACTED BY CONSTRUCTION SHALL BE RELOCATED ONSITE. SEE LANDSCAPE PLAN AND NATIVE PLANT INVENTORY & SALVAGE PLAN.

### UNDERGROUND UTILITY NOTE

THE UTILITY INFORMATION SHOWN IS LIMITED TO VISIBLE ABOVE GROUND EVIDENCE AND/OR RECORDS PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THIS SURVEY MAY NOT DEPICT ALL OF THE UNDERGROUND UTILITIES EITHER IN SERVICE OR ABANDONED THAT MAY EXIST ADJACENT TO OR WITHIN THE BOUNDARIES OF THE SUBJECT PROPERTY. NO REPRESENTATION IS MADE TO THE ACCURACY OR COMPLETENESS OF ANY THIRD PARTY MAPS, RECORDS OR INFORMATION USED TO DEPICT THE UNDERGROUND UTILITIES. AN UNDERGROUND UTILITY LOCATOR SHOULD BE RETAINED PRIOR TO EXCAVATION OR CONSTRUCTION TO DETERMINE THE PRECISE LOCATION OF ALL UTILITIES THAT MAY EXIST ADJACENT TO OR WITHIN THE BOUNDARIES OF THE SUBJECT PROPERTY.

### DEMOLITION NOTES

1. ALL DEMOLITION OF CONCRETE, DRIVEWAYS, WALLS, BUILDING, ETC. ARE CALLED OUT ON ARCHITECTURAL SITE PLAN. THIS PLAN IS NOT A DEMOLITION PLAN.

### UTILITY PROVIDERS

UTILITY	PROVIDER	PHONE
WATER:	CITY OF PHOENIX	602-262-6251
SEWER:	CITY OF PHOENIX	602-262-3111
ELECTRIC:	APS	602-371-7171
TELEPHONE:	CENTURYLINK	877-348-9005
NATURAL GAS:	SWG	877-860-6020
CABLE:	COX COMMUNICATIONS	623-594-1000

### EARTHWORK QUANTITIES

CUT	180 CY *
FILL	120 CY
TOTAL	60 CY CUT

\* INCLUDES ESTIMATE OF PULL EXCAVATION EARTHWORK PROVIDED FOR PERMITTING PURPOSES ONLY AND CANNOT BE CONSIDERED ACCURATE. CONTRACTOR TO PROVIDE OWN CALCULATIONS FOR CONSTRUCTION PURPOSES.

### LEGAL DESCRIPTION

LOT 39, OF PARADISE VALLEY COUNTRY ESTATES, ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA, RECORDED IN BOOK 102 OF MAPS, PAGE 28.

### DRAINAGE STATEMENT

- EXTREME STORM OUTFALLS THE SITE AT THE SOUTHWEST PROPERTY CORNER AT APPROXIMATE ELEVATION 1459.50.
- PROPOSED DEVELOPMENT DOES NOT IMPACT DRAINAGE CONDITIONS OF ADJOINING PROPERTIES
- THE LOWEST FINISH FLOOR ELEVATION OF 1468.03 IS SAFE FROM INUNDATION DURING A 100-YR, 2-HR STORM EVENT IF CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS.

### CONSTRUCTION NOTES

- INSTALL FRENCH DRAIN. ADJUSTMENTS TO GRATE AND INVERT ELEVATIONS TO BE MADE IN THE FIELD. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- INSTALL CMU BLOCK RETAINING WALL WITH WROUGHT IRON VIEW FENCE. ELEVATIONS PER PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- INSTALL CMU BLOCK WALL WITH VIEW FENCE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- INSTALL CMU BLOCK RETAINING WALL. ELEVATIONS PER PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- NEW PAVEMENT DRIVEWAY AREA.
- REMOVE EXISTING PAVEMENT DRIVEWAY AND INSTALL NEW PAVEMENT DRIVEWAY AT ELEVATIONS SHOWN.
- LIMIT OF NEW PAVERS. MATCH EXISTING PAVERS AT THIS POINT.
- NEW CONCRETE PATIO AREA.
- PROVIDE WALL OPENING FOR TRENCH DRAIN.
- PROVIDE ANGULAR RIP RAP, D50=4", 9" THICK.
- INSTALL 8" HDPE OR PVC STORM DRAIN PIPE. INVERT PER PLAN.

### TOWN OF PARADISE VALLEY APPROVAL

THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH TOWN OF PARADISE VALLEY REQUIREMENTS PRIOR TO ISSUANCE OF PERMIT. THE TOWN NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. THE COMPLIANCE APPROVAL SHALL NOT PREVENT THE TOWN ENGINEER FROM REQUIRING CORRECTIONS OF ERRORS OR OMISSIONS IN THE PLANS TO BE FOUND IN VIOLATION OF LAWS AND ORDINANCES.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

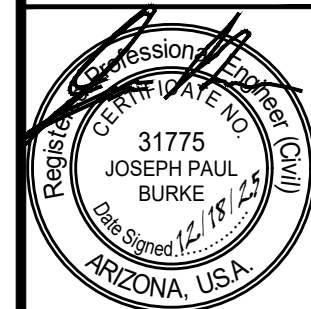
### AS-BUILT CERTIFICATION

ARIZONA REGISTERED LAND SURVEYOR \_\_\_\_\_ DATE \_\_\_\_\_

ARIZONA REGISTRATION NUMBER \_\_\_\_\_ TELEPHONE NUMBER \_\_\_\_\_



SECTIONS, NOTES AND DETAILS  
SINGLE-FAMILY RESIDENCE  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA



**BURKE ENGINEERING GROUP**  
97107 N. GUDKIP TRAIL  
PHOENIX, ARIZONA 85085  
PHONE: (602) 910-1185

B.E.G.

SCALE (H): 1"=20'

SCALE (V): NA

DESIGNED BY: JB

CHECKED BY:

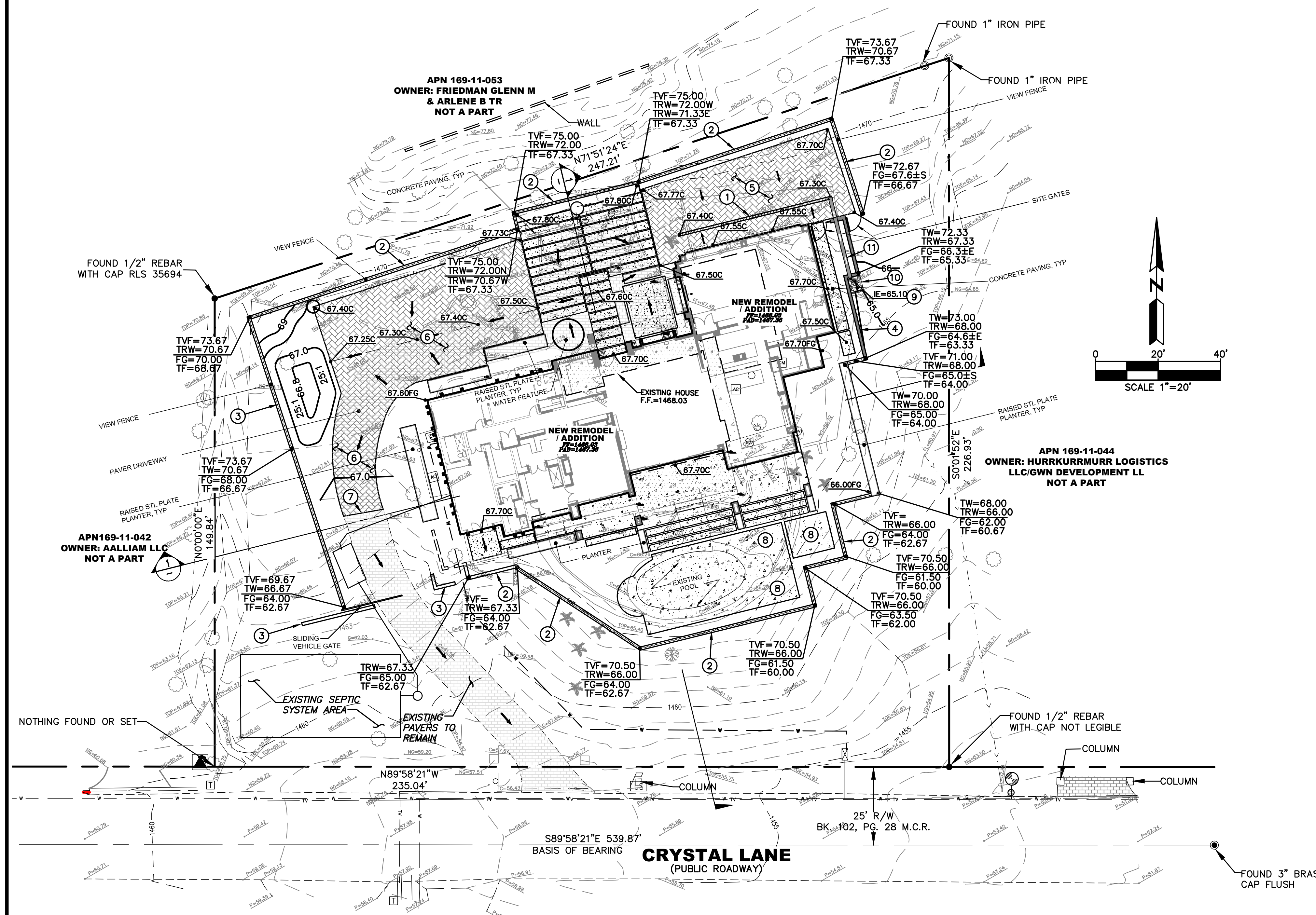
DATE: 12/25

PROJECT NO. BLACK

DRAWING NAME C&D

1 OF 2

PLAN CHECK #



### PROPOSED LEGEND

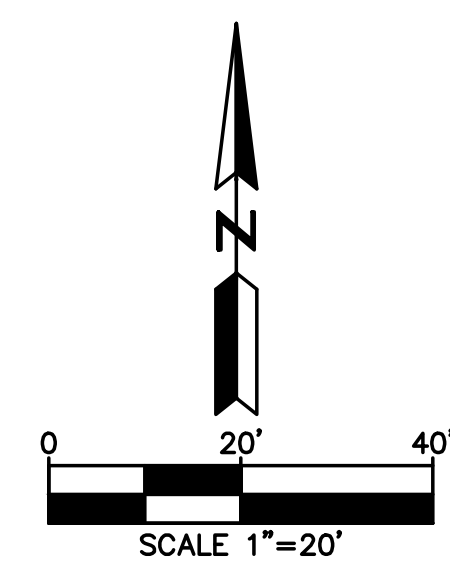
- CONCRETE
- NEW PAVERS
- DRAINAGE FLOW
- PROPOSED BLOCK WALL
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED RIP RAP

### ABBREVIATIONS

- L.T.C. LOW TOP OF CURB
- L.N.G. LOWEST NATURAL GRADE
- H.T.C. HIGH TOP OF CURB
- E.S.O. EXTREME STORM OUTFALL
- TW TOP OF WALL
- BSL BUILDING SETBACK
- PUE PUBLIC UTILITY EASEMENT
- BSL BUILDING SETBACK LINE

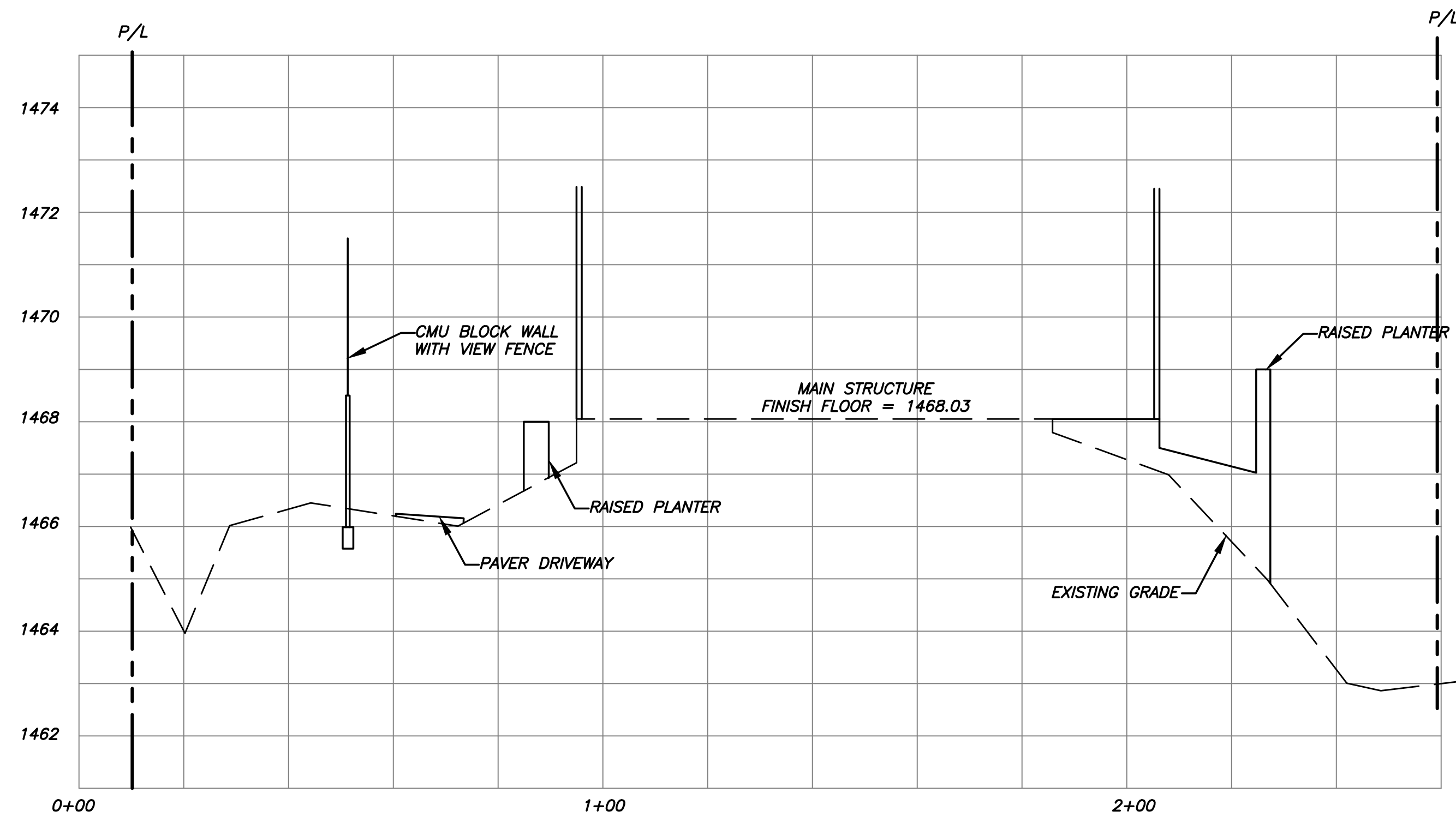
### EXISTING LEGEND

- FOUND BRASS CAP FLUSH
- FOUND CHISELED 'X'
- FOUND IRON PIPE
- FOUND 1/2" REBAR
- AIR CONDITIONER
- CATCH BASIN
- ELECTRIC TRANSFORMER
- ELECTRIC METER
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- FLOOD LIGHT
- GAS METER
- HOSE BIB
- IRRIGATION VALVE
- MAIL BOX
- PALM TREE
- PALO VERDE TREE
- SIGN
- TELEPHONE RISER
- R/W RIGHT OF WAY
- M.C.R. MARICOPA COUNTY RECORDS
- APN ASSESSORS PARCEL NUMBER
- EXISTING PAVERS
- CONCRETE

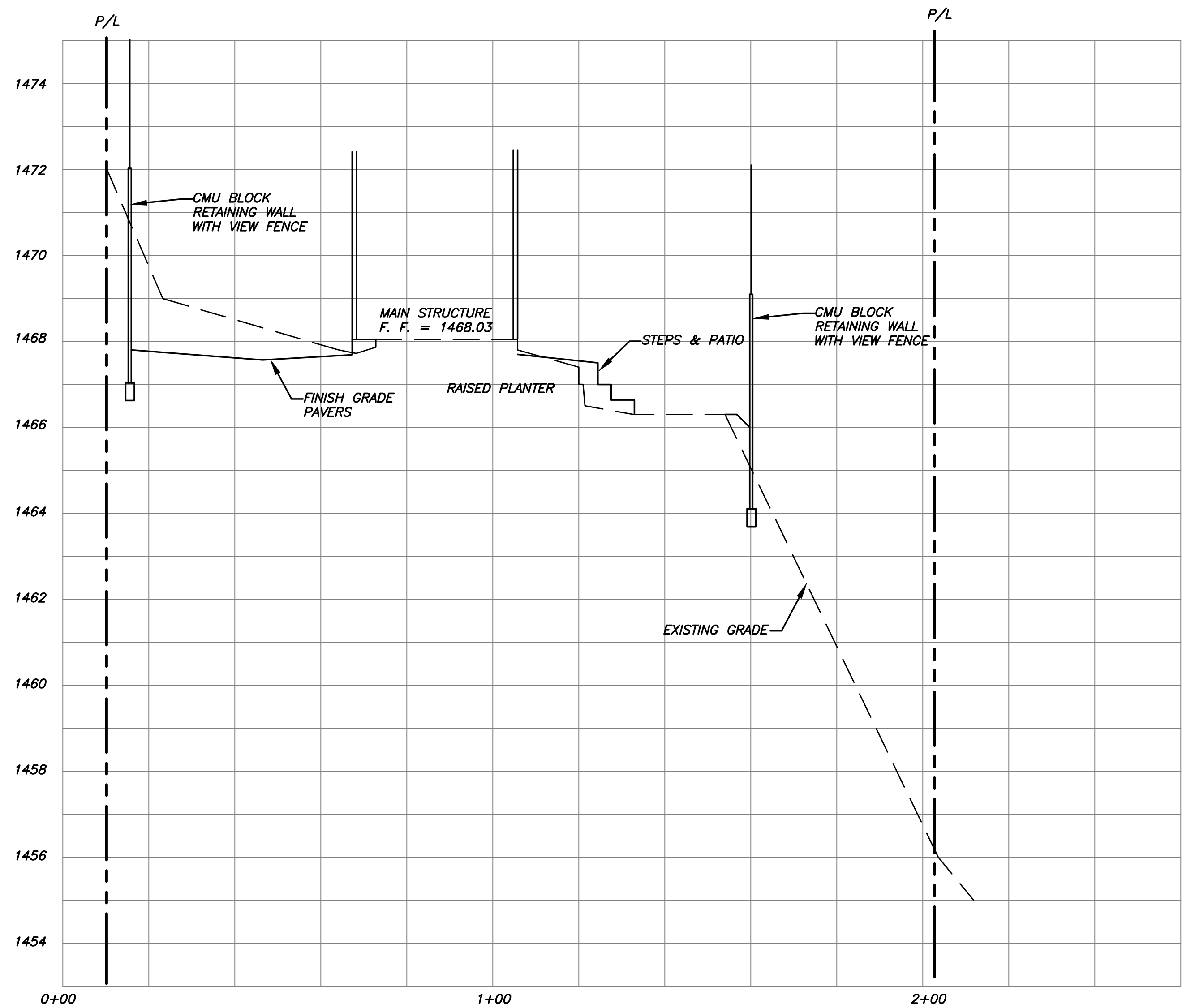


**PARADISE VALLEY GENERAL NOTES**

2. PRIOR TO THE FIRST INSPECTION OF STRUCTURES WITHIN 3 FEET OF A SETBACK LINE, THE PROPERTY PINS SHALL BE PLACED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR OF THE STATE OF ARIZONA, AND THE PROPERTY LINE(S) IDENTIFIED.
2. WHERE EXCAVATION IS TO OCCUR THE TOP 4" OF EXCAVATED NATIVE SOIL SHALL REMAIN ON THE SITE AND SHALL BE REUSED IN A MANNER THAT TAKES ADVANTAGE OF THE NATURAL SOIL SEED BANK IT CONTAINS.
3. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL MUNICIPALITY UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
6. ALL EXTERIOR SITE LIGHTING SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR TYPE, LOCATION, HEIGHT, WATTAGE, AND LUMEN BASED UPON THE FIXTURES INSTALLED PURSUANT TO SECTION 1023 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCE FOR NON-HILLSIDE PROPERTIES, SECTION 2208 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCE FOR HILLSIDE PROPERTIES, OR AS SPECIFIED IN THE SPECIAL USE PERMIT FOR SPECIAL USE PERMIT PROPERTIES.
7. A DUST CONTROL PLAN AND PERMIT MEETING THE REQUIREMENTS OF RULE 310 OF THE MARICOPA COUNTY AIR POLLUTION CONTROL REGULATIONS, AS AMENDED, IS REQUIRED.
8. A SEPARATE RIGHT-OF-WAY PERMIT IS NECESSARY FOR ANY OFF-SITE CONSTRUCTION.
9. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
10. EAVE PROJECTIONS INTO REQUIRED SETBACKS ARE LIMITED TO A MAXIMUM OF 24" PURSUANT TO SECTION 1008 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCES.
11. ALL STRUCTURES AND LANDSCAPING WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL HAVE A 2 FOOT MAXIMUM HEIGHT.
12. ALL NEW AND EXISTING ELECTRICAL SERVICE LINES SHALL BE BURIED PER THE TOWN OF PARADISE VALLEY REQUIREMENTS.
13. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, AND TO SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF AN ENGINEERING CONSTRUCTION PERMIT.
14. EXISTING AND/OR NEW UTILITY CABINETS AND PEDESTALS SHALL BE LOCATED A MINIMUM OF 4' BEHIND ULTIMATE BACK OF CURB LOCATION.
15. POOL, SPA, BARBECUE AND ANY PROPOSED STRUCTURES OVER 8' ABOVE GRADE REQUIRE SEPARATE PERMIT APPLICATIONS.
16. POOLS SHALL BE CONSTRUCTED BY SEPARATE PERMIT AND SECURED FROM UNWANTED ACCESS PER TOWN CODE, ARTICLE 5-2.
17. ALL FILL MATERIAL UNDER SLABS AND WALKS SHALL BE COMPACTED TO NOT LESS THAN 95%.
18. SETBACK CERTIFICATION IS REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO STEM WALL INSPECTION.
19. FOR BUILDING PADS THAT HAVE 1' OR MORE OF FILL MATERIAL, SOILS COMPACTION TEST RESULTS ARE REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO PRE-SLAB INSPECTION.
20. FINISHED FLOOR ELEVATION CERTIFICATION IS REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO STRAP AND SHEAR INSPECTION.
21. MAIL BOXES SHALL COMPLY WITH THE TOWN OF PARADISE VALLEY STANDARDS FOR MAIL BOXES IN THE RIGHT-OF-WAY FOR HEIGHT, WIDTH AND BREAK AWAY FEATURES.
22. ALL PATIOS, WALKS, AND DRIVES TO SLOPE AWAY FROM BUILDING AND GARAGES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS SPECIFIED OTHERWISE.
23. TRENCH BEDDING AND SHADING SHALL BE FREE OF ROCKS AND DEBRIS.
24. THE TOWN ONLY APPROVES THE SCOPE OF WORK AND NOT THE ENGINEERING DESIGN. ANY CONSTRUCTION QUANTITIES SHOWN ARE NOT VERIFIED BY THE TOWN.
25. THE APPROVAL OF THE PLANS IS VALID FOR 180 DAYS. IF A PERMIT FOR CONSTRUCTION HAS NOT BEEN ISSUED WITHIN 180 DAYS, THE PERMIT MUST BE RENEWED.
26. A TOWN INSPECTOR WILL INSPECT ALL WORK WITHIN THE TOWN'S RIGHTS-OF-WAY. NOTIFY TOWN INSPECTION SERVICES TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
27. WHENEVER EXCAVATION IS NECESSARY, CALL ARIZONA811 BY DIALING 811 OR 602-263-1100, TWO (2) WORKING DAYS BEFORE EXCAVATION BEGINS.
28. EXCAVATIONS SHALL COMPLY WITH REQUIREMENTS OF OSHA EXCAVATION STANDARDS (29 CFR, PART 1926, SUBPART P). UNDER NO CIRCUMSTANCES WILL THE CONTRACTORS BE ALLOWED TO WORK IN A TRENCH LOCATED WITHIN THE TOWN'S RIGHT-OF-WAY WITHOUT PROPER SHORING OR EXCAVATION METHODS.
29. PERMIT HOLDER SHALL POST A 6 SQUARE FOOT (2'X3') IDENTIFICATION SIGN, MADE OF DURABLE MATERIAL, IN THE FRONT YARD OF SUBJECT PROPERTY AND NOT IN THE TOWN'S RIGHT-OF-WAY. THE SIGN MAY NOT EXCEED A MAXIMUM OF 6 FEET IN HEIGHT FROM GRADE TO TOP OF THE SIGN. THE SIGN MUST INCLUDE THE PERMITTEE OR COMPANY NAME, PHONE NUMBER, TYPE OF WORK, ADDRESS OF PROJECT AND TOWN CONTACT NUMBER, 480-348-3556.
30. WHEN DEEMED NECESSARY, A 6-FOOT HIGH CHAIN LINK FENCE MUST BE INSTALLED AROUND THE CONSTRUCTION AREA TO PREVENT ANY POTENTIAL SAFETY HAZARD FOR THE PUBLIC. THE FENCE SHALL BE SETBACK AT LEAST 10 FEET FROM ALL RIGHTS-OF-WAY AND HAVE A 50-FOOT STREET CORNER SITE TRIANGLE WHERE APPLICABLE.
31. CLEAR ACCESS FOR NEIGHBORING PROPERTIES AND EMERGENCY VEHICLES MUST BE MAINTAINED AT ALL TIMES. CONSTRUCTION RELATED VEHICLES MUST BE LEGALLY PARKED ONLY ON ONE SIDE OF THE STREET OR JOB SITE PROPERTY.
32. ALL CONSTRUCTION DEBRIS AND EQUIPMENT MUST BE CONTAINED ON SITE AT ALL TIMES. CONTRACTOR AND PROPERTY OWNER MUST MAINTAIN THE JOB SITE FREE OF LITTER AND UNSIGHTLY MATERIALS AT ALL TIMES. CONSTRUCTION MATERIALS ARE PROHIBITED IN THE TOWN'S RIGHT-OF-WAY.
33. CONSTRUCTION ACTIVITIES ARE PERMITTED BETWEEN THE HOURS OF 7 AM AND 5 PM MONDAY THROUGH FRIDAY. CONSTRUCTION ACTIVITIES MAY START ONE (1) HOUR EARLIER DURING THE SUMMER (MAY 1ST THROUGH SEPTEMBER 30TH).
34. THE USE AND OPERATION OF FUEL-FIRED GENERATORS IS PROHIBITED UNLESS DUE TO A HARDSHIP. TOWN APPROVAL SHALL BE REQUIRED.
35. THE CONTRACTOR AND PROPERTY OWNER SHALL BE LIABLE FOR ANY DAMAGE DONE TO ANY PUBLIC PROPERTY AS A RESULT OF ANY CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL AFFECTED RIGHTS-OF-WAY ARE CLEANED AND/OR REPAIRED TO THEIR ORIGINAL CONDITION AND UNTIL ANY AND ALL DAMAGES TO AFFECTED PROPERTIES ARE RESTORED TO ORIGINAL CONDITION.
36. A KEYSWITCH SHALL BE REQUIRED ON ALL NEW AND EXISTING ELECTRIC ENTRY GATES. THE KEYSWITCH SHALL BE INSTALLED IN A LOCATION THAT IS READILY VISIBLE AND ACCESSIBLE. KNOX BOX ORDER FORMS ARE AVAILABLE AT THE TOWN'S BUILDING SAFETY DEPARTMENT.
37. PROPERTY OWNER, BUILDER, OR GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CONTROLLING DUST FROM THE SITE AT ALL TIMES. ALL MEANS NECESSARY SHALL BE USED BY THE BUILDER OR GENERAL CONTRACTOR TO CONTROL THE EXISTENCE OF DUST CAUSED BY ANY EARTHWORK, SPRAY APPLICATION OF MATERIALS, OR OTHER DUST-CAUSING PRACTICES REQUIRED BY THE CONSTRUCTION PROCESS.
38. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE TOWN FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
39. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTION DITCHES, PIPES PROTECTIVE BERMS, CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT PROPOSED AND EXISTING IMPROVEMENTS FROM RUNOFF OR DAMAGE FROM STORM WATER, MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS.



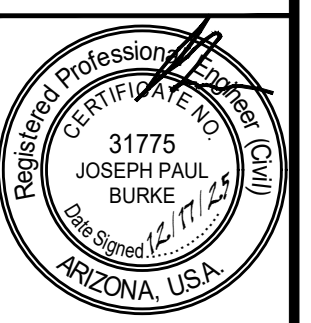
**SECTION #1**  
SCALE: 1"=20' HORZ.  
1"=4' VERT.



**SECTION #2**  
SCALE: 1"=20' HORZ.  
1"=4' VERT.

REVISION

**SECTIONS AND NOTES**  
SINGLE-FAMILY ADDITION  
4628 E CRYSTAL LN  
PARADISE VALLEY, ARIZONA



**BURKE ENGINEERING GROUP**  
97107 N. CUYKIP TRAIL  
PHOENIX, ARIZONA 85085  
PHONE: (602) 910-1185

**B.E.G.**

SCALE (H): 1"=20'  
SCALE (V): NA  
DESIGNED BY: JB  
CHECKED BY:

DATE: 12/25

PROJECT NO.  
BLACK

DRAWING NAME  
C&D

2 OF 2



PLAN CHECK # BD25-



**GENERAL SALVAGE NOTES:**

1. PLANT MATERIALS MUST BE INDIVIDUALLY TAGGED IN THE FIELD AT THE TIME THE INVENTORY PLANS ARE SUBMITTED. TAGGED MATERIALS MUST BE CLEARLY MARKED WITH WATERPROOF INK AND INCLUDE THE NUMBER WHICH CORRESPONDS TO THE NUMBER SHOWN ON THE PLANS.
  2. ALL PLANT MATERIALS MUST REMAIN ON SITE UNTIL THE SALVAGE PLAN IS APPROVED.
  3. TAGS MUST BE ATTACHED SO THAT THEY WILL REMAIN ON THE PLANT FOR THE DURATION OF THE SALVAGE AND NURSERY STORAGE PERIOD.
  4. ALL SALVAGEABLE MATERIAL IS TO BE CLEARLY FLAGGED WITH TAPE OR PLASTIC TAGS VISIBLE FROM ALL DIRECTIONS. TAGS SHALL BE NUMBERED TO CORRESPOND WITH THE PLANT INVENTORY PLAN AND LEGEND.
- COLOR CODE AS FOLLOWS:  
 RED - SALVAGE AND RELOCATE  
 WHITE - PRESERVE AND PROTECT IN PLACE  
 BLUE - DESTROY, NOT SALVAGEABLE AND CANNOT REMAIN IN PLACE
5. ALL SALVAGEABLE PLANTS WILL BE STORED AT AN ON-SITE HOLDING YARD AND WILL BE RE-PLANTED ON-SITE AT A LATER DATE.
  6. ALL MISCELLANEOUS CACTI UNDER 3' IN HEIGHT WILL BE SALVAGED AND STORED IN THE NURSERY IF THEY ARE WITHIN THE BUILDING ENVELOPE AND AFFECTED BY CONSTRUCTION.
  7. UPON REMOVAL OF SALVAGEABLE NATIVE PLANTS THE SALVAGE CONTRACTOR SHALL SUBMIT A LIST IDENTIFYING THE TAG NUMBER OF THE PLANTS SURVIVING SALVAGE OPERATIONS TO THE CITY'S LANDSCAPE INSPECTOR PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
  8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PROJECT PROPERTY LINES PRIOR TO SALVAGE. ANY PLANT MATERIAL THAT IS LABELED SALVAGEABLE OR NON-SALVAGEABLE OUTSIDE OF FINAL STAKING BOUNDARIES IS TO REMAIN IN PLACE UNLESS OTHERWISE DIRECTED BY OWNER.
  9. CONTRACTOR TO VERIFY WITH OWNER ALL PLANT MATERIAL LABELED SALVAGEABLE OR NON-SALVAGEABLE ADJACENT TO N.A.O.S. BOUNDARIES AND /OR DRAINAGE WAYS

Tag#	Species	Condition	Inventory Designation	Intended Designation	Salvageability Comments	Caliper Inches	Tree Height-Ft.	Tree Width-Ft.	Saguaro Arms	Cacti Lateral ft
1	Saguaro	Good	Remain in Place	RP		16			0	4
2	Mesquite	Fair	Remain in Place	RP		5	16	17		

**Salvage Plants**

0 Trees on this site to be salvaged totaling 00 caliper inches  
 0 Cacti on this site to be salvaged totaling 00 lateral feet  
 0 Total Plants to Salvage

**Unsalvageable Plants (Destroy)**

0 Trees on this site that are not salvageable (destroy) totaling 00 caliper inches  
 0 Cacti on this site that not salvageable totaling 00 caliper inches  
 0 Total Plants to Destroy (Unsalvageable)

**Plants to Remain**

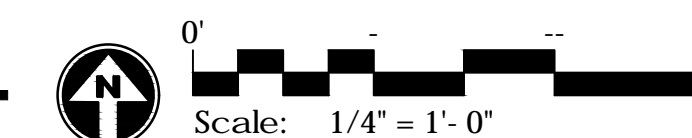
2 Trees on this site that are to remain in place

**PLANT SYMBOL LEGEND:**

	<i>Parkinsonia</i>	Palo Verde
	<i>Prosopis velutina</i>	Mesquite
	<i>Carnegiea gigantea</i>	Saguaro
	<i>Ferocactus cylindraceus</i>	Compass Barrel
	<i>Olney tesota</i>	Ironwood
	<i>Fouquieria splendens</i>	Ocotillo

**INVENTORY COMPLETED BY:**

ARIZONA SPECIALTY CACTUS  
 PHONE: 602-694-3496  
 E-MAIL: AZSPECIALTYCACTUS@GMAIL.COM  
 CONTACT: ALEX GREY



**NATIVE PRESERVATION SURVEY**

**Micco Residence**  
 4628 E Crystal Lane  
 Paradise Valley, 85253

sc  
 ISSUED  
 01/15/20



AGAVE - CENTURY PLANT CLUSTER  
 MEXICAN FENCE POST CLUSTER  
 EXISTING MESQUITE, 8"+  
 EXISTING PAVER DRIVEWAY  
 PAVER DRIVEWAY  
 RAISED STL PLATE PLANTER, TYP  
 LINING DRIVEWAY  
 PENSTEMON, SAGES, GOLDEN BARRELS, DUSTERS, MILKWEED

TORCH CACTUS GROUPING  
 AGAVE, VARIED CLUSTER  
 C.I.P. DRIVEWAY - SAND BLAST  
 PAVERS TO MATCH EXISTING  
 PALO PALO BREA, 24"+ TYP

SALVAGE IRONWOOD  
 VIEW FENCE  
 LANDSCAPING  
 PAVER DRIVEWAY

SITE GATES  
 SOLID WALLS AT TRASH ENCLOSURE  
 CONCRETE PAVING, TYP  
 MESQUITE (PHOENIX)  
 PALO VERDE

VIEW FENCE  
 ORGANIC RAISED VEGETATION PLANTER  
 RAISED STL PLATE PLANTER, TYP  
 PROPERTY LINE  
 PALO VERDE  
 SYNTHETIC TURF ("COLORADO")  
 VIEW FENCE SAGUARO (MULTI)

CREOSOTE, TYP.  
 HOPBUSH/HEDGE  
 3" MINUS, DESERT COBBLE TYP. GROUND  
 SURFACE GRANITE BOULDERS, TYP.  
 BRITTLE BUSH, TYP.

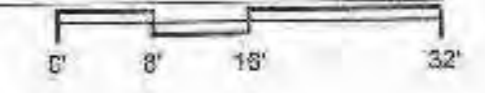
SURFACE GRANITE BOULDERS, TYP.  
 EXISTING MAILBOX  
 RIP RAP, APACHE BROWN  
 EXISTING DRIVEWAY & PAVERS

IRONWOOD  
 MESQUITE (PHOENIX)  
 SAGURO (CARNEGIEA) MULTIPLE - STAND, SINGLE SPEARS

OCOTILLO, TYP.  
 SPECIMEN CACTI STAND

**GENERAL NOTE:**  
 ALL PALMS TREES REMOVED  
 ALL NON-REGIONAL TREES REMOVED

LANDSCAPE PLAN  
 1/16" = 1'-0"

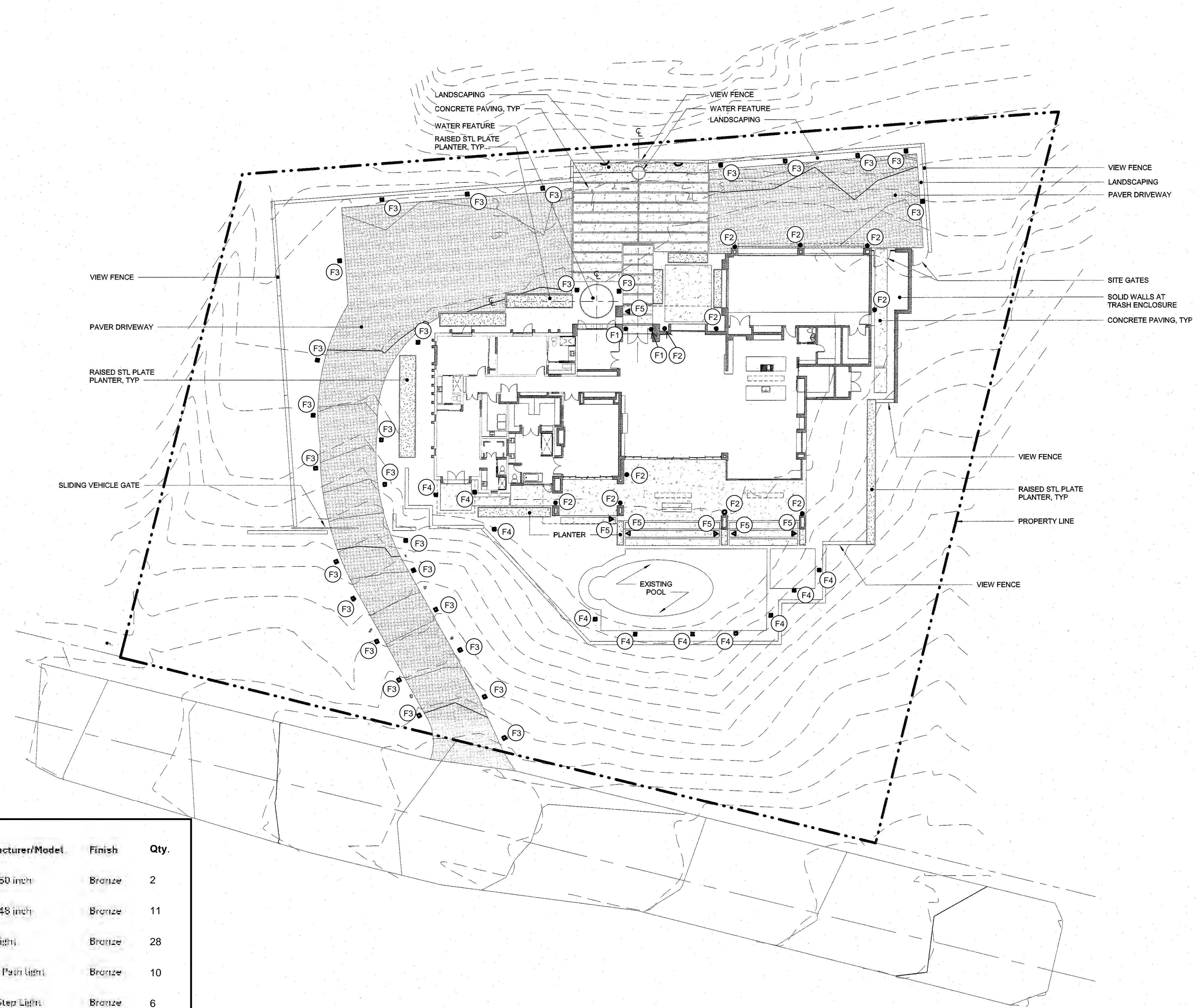


MICCO

DRAWING INFORMATION	
ISSUE DATE:	18 DEC 2025
SCALE:	1/16" = 1'-0"
JOB NO.:	25008.00
PROJECT DESIGN PHASE	

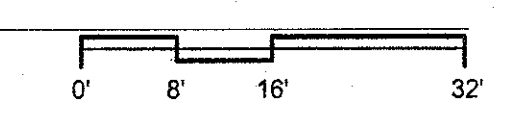
DRAWING NAME  
**LANDSCAPE PLAN**  
 DRAWING NUMBER

**L1.0**



Exterior Light Fixtures					
Label	Type	Location/Application	Manufacturer/Model	Finish	Qty.
F1	Recessed Wall sconce	Entry - Wall Mount	Svelte 50 inch	Bronze	2
F2	Recessed wall sconce	exterior Door and Patio	Svelte 48 inch	Bronze	11
F3	Path Light	Driveway and Paths	BI Pin Light	Bronze	28
F4	Path Light	Pool Deck and Yard	FX-MK Path Light	Bronze	10
F5	Step Light	Stairs/ Wall Integrated	Sonic Step Light	Bronze	6

1 SITE LIGHTING PLAN  
 1/16" = 1'-0"



MICCO

DRAWING INFORMATION	
ISSUE DATE:	25 NOV 2025
SCALE:	1/16" = 1'-0"
JOB NO.:	25006.00
PROJECT DESIGN PHASE	

DRAWING NAME	SITE LIGHTING PLAN
DRAWING NUMBER	

Fixture #1



Svelte Outdoor Linear Wall Lamp IP65

The Svelte Outdoor Linear Wall Lamp brings a balance between your indoor and outdoor atmosphere. With an industrial take on a classic wall sconce design, it casts a gentle glow to any space of your home, wherever you may be. From driving into your driveway or sipping a glass of wine at the dinner table, this light brings a classy ambiance to a luxury lifestyle.

**Dimensions** Height: 24", 32", 40", 48", 70", 80"  
Back Width: 2.2"  
Front Width: 3.5"  
Depth: 2"

**Weight** 2.4lbs, 3lbs, 3.7lbs, 4.4lbs, 5.2lbs, 6.1lbs

**Materials & Finish** Material: Stainless Steel Body  
Color: Black Finish

**Illumination** Voltage: 100-240V suitable for all countries  
Type: COB LED  
Wattage: See table  
Control: Remote control for 3-color dimmable version  
(Not compatible with dimmer switch). One color dimmable only compatible with dimmer switch  
(Does not come with remote)

**Certification**

**Location Listed** Wet

**Power Source** Hardwired

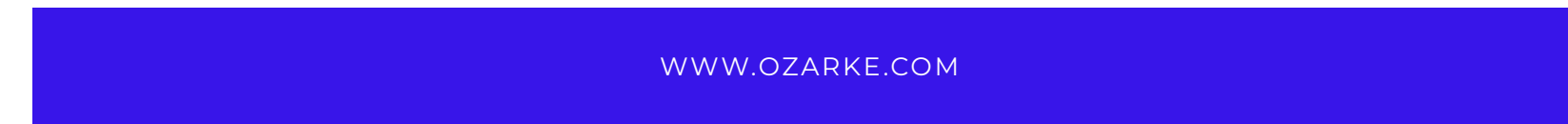
**Lead Time** 4-7 days

Multiple Size Available

Why choose the Back Size

- 24in. (back) 2.0 (16.0lb)
- 32in. (back) 2.0 (16.0lb)
- 40in. (back) 2.7 (17.0lb)
- 48in. (back) 3.0 (18.0lb)
- 60in. (back) 3.7 (18.0lb)
- 70in. (back) 5.2 (18.0lb)
- 80in. (back) 6.1 (18.0lb)

Length	Backplate Color	Lumens	Watts	Weight	Dimmable?
24 inches	chrome	1120	100	2.4 lbs	Yes (not dimmable)
32 inches	chrome	1536	100	3 lbs	Yes (not dimmable)
40 inches	chrome	1952	100	3.7 lbs	Yes (not dimmable)
48 inches	chrome	2368	100	4.4 lbs	Yes (not dimmable)
60 inches	chrome	2912	100	5.2 lbs	Yes (not dimmable)
70 inches	chrome	3456	100	6.1 lbs	Yes (not dimmable)
80 inches	chrome	4000	100	6.1 lbs	Yes (not dimmable)



Fixture #2



Svelte Outdoor Linear Wall Lamp IP65

The Svelte Outdoor Linear Wall Lamp brings a balance between your indoor and outdoor atmosphere. With an industrial take on a classic wall sconce design, it casts a gentle glow to any space of your home, wherever you may be. From driving into your driveway or sipping a glass of wine at the dinner table, this light brings a classy ambiance to a luxury lifestyle.

**Dimensions** Height: 24", 32", 40", 48", 70", 80"  
Back Width: 2.2"  
Front Width: 3.5"  
Depth: 2"

**Weight** 2.4lbs, 3lbs, 3.7lbs, 4.4lbs, 5.2lbs, 6.1lbs

**Materials & Finish** Material: Stainless Steel Body  
Color: Black Finish

**Illumination** Voltage: 100-240V suitable for all countries  
Type: COB LED  
Wattage: See table  
Control: Remote control for 3-color dimmable version  
(Not compatible with dimmer switch). One color dimmable only compatible with dimmer switch  
(Does not come with remote)

**Certification**

**Location Listed** Wet

**Power Source** Hardwired

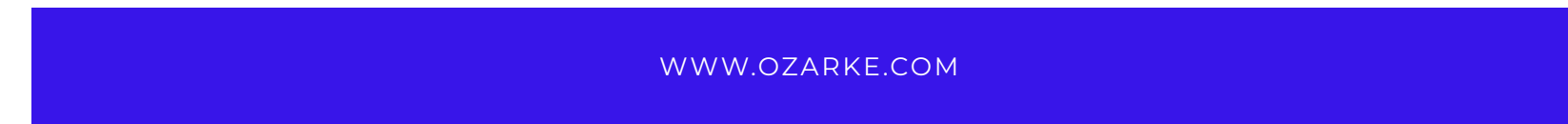
**Lead Time** 4-7 days

Multiple Size Available

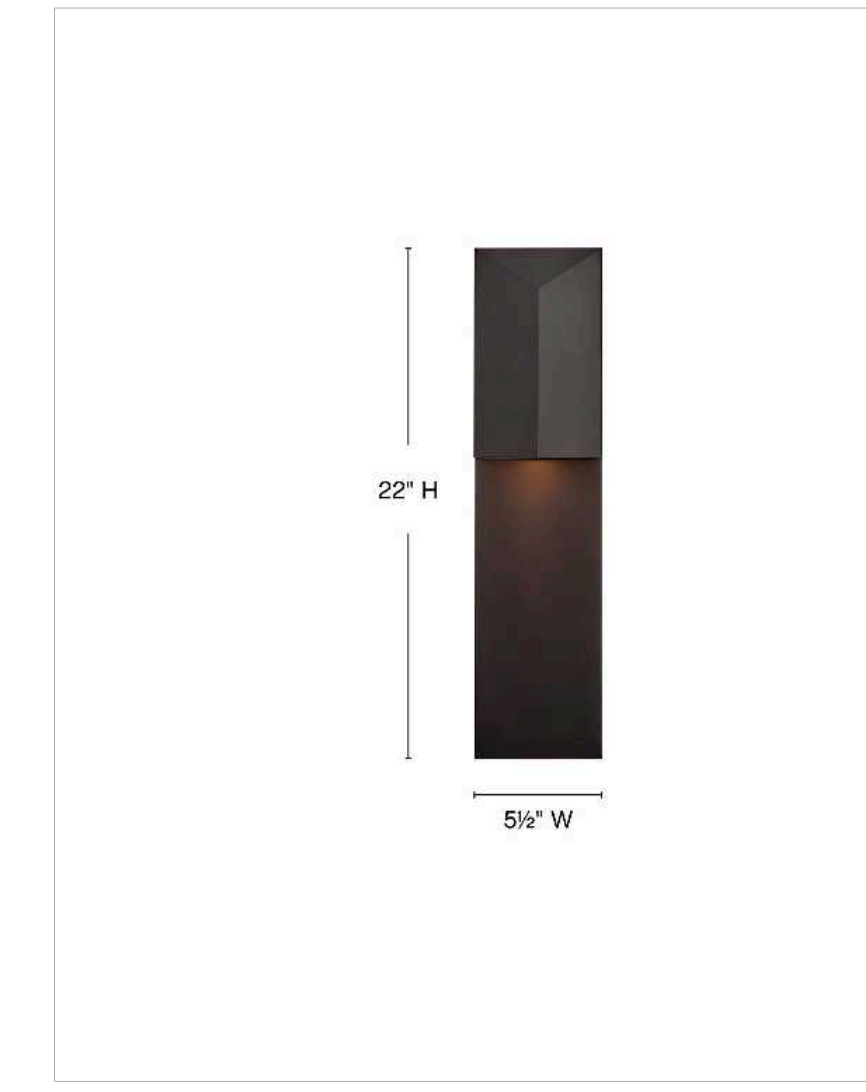
Why choose the Back Size

- 24in. (back) 2.0 (16.0lb)
- 32in. (back) 2.0 (16.0lb)
- 40in. (back) 2.7 (17.0lb)
- 48in. (back) 3.0 (18.0lb)
- 60in. (back) 3.7 (18.0lb)
- 70in. (back) 5.2 (18.0lb)
- 80in. (back) 6.1 (18.0lb)

Length	Backplate Color	Lumens	Watts	Weight	Dimmable?
24 inches	chrome	1120	100	2.4 lbs	Yes (not dimmable)
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60 inches	chrome	2912	100	5.2 lbs	Yes (not dimmable)
70 inches	chrome	3456	100	6.1 lbs	Yes (not dimmable)
80 inches	chrome	4000	100	6.1 lbs	Yes (not dimmable)



Fixture #1 & #2 - ALTERNATE



- PRODUCT DETAILS:**
- InvisiMount hardware is hidden on the backplate for a clean silhouette
  - Wet Rated
  - Dark Sky compliant design limits light pollution in surrounding outdoor spaces
  - ADA compliant design provides added accessibility and maximum clearance
  - Outdoor finishes carry a 2-year warranty
  - LED Bulbs carry a 3-year limited warranty
  - Bold lines and a clean, minimalist style complement contemporary architecture
  - Part of the MOCCO Collection, designed to elevate contemporary architecture with modern style, clean lines, and precisely engineered illumination

**HINKLEY** HINKLEY 33000 Pin Oak Parkway Avon Lake, OH 44012  
PHONE: (440) 653-5500 Toll Free: 1 (800) 446-5539 hinkley.com

**PROJECT ADDRESS**  
4828 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

**TREVA**  
29005DX-LL  
MEDIUM WALL SCONCE

With clean angular lines and a minimalistic silhouette, Treva's architectural modern downlight design serves as an excellent Dark Sky option for outdoor settings. Its sleek metal is elevated by a sophisticated Dark Oxidized Brass finish, which effortlessly complements interior living spaces as well.

DETAILS	
FINISH:	Dark Oxidized Brass
MATERIAL:	Aluminum
DIMMABLE:	YES - CL TYPE DIMMER (SSL7A)

DIMENSIONS	
WIDTH:	5.5"
HEIGHT:	22"
WEIGHT:	3.6lb
BACK PLATE:	5.5"W X 22"H
EXTENSION:	4"
TOP TO OUTLET:	5.5-16.75"

LIGHT SOURCE	
LIGHT SOURCE:	Socketed
WATTAGE:	1-7w GU10 LED *Included
VOLTAGE:	120v

SHIPPING	
CARTON LENGTH:	8.5
CARTON WIDTH:	7
CARTON HEIGHT:	26
CARTON WEIGHT:	4.9

**DRAWING INFORMATION**

ISSUE DATE:	25 NOV 2025
SCALE:	1/16" = 1'-0"
JOB NO.:	25006.00

**PROJECT DESIGN PHASE**

**DRAWING NAME**  
SITE LIGHTING  
CUT SHEETS  
**DRAWING NUMBER**

MICCO

## Fixture #3



### Specification Sheet

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

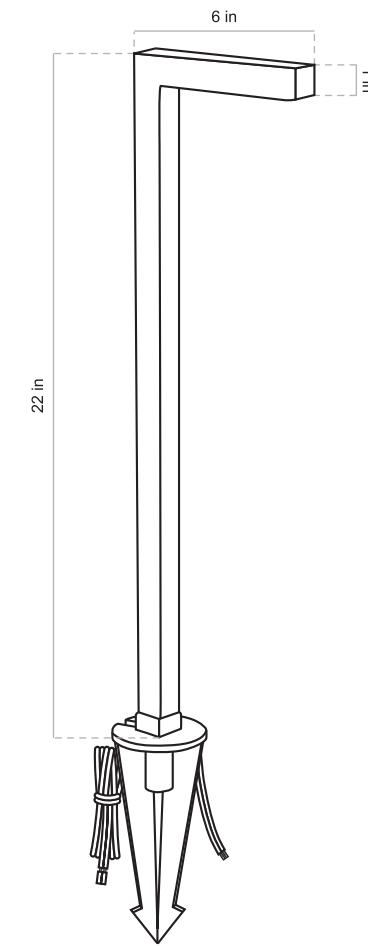
#### MODEL: PL300 | MODERN G4 BIPIN PATH LIGHT

Designed to harmonize with minimalist landscapes or modern architecture, this fixture provides outstanding area lighting without drawing attention to itself. Large slotted ground stake mounting is provided standard. Dual wire leads are factory-installed. Perfect for providing secure lighting along pathways or setting a mood to accentuate landscape elements along the route.

<b>CONSTRUCTION:</b> Solid brass "L" shaped fixture, 1/2" NPT threading from stem to mount.	<b>WIRING:</b> Pre-installed dual 16AWG wire leads, primary 25' wire lead, and optional 18" wire lead for daisy chaining to other fixtures. Brown wire with aged brass finish, black wire with black overcoat.
<b>FINISH:</b> Classic aged brass or modern premium black overcoat.	<b>WARRANTY:</b> Lifetime warranty on fixture housing.
<b>SOCKET:</b> G4 Bi-Pin, spring-loaded, ceramic, with dual contacts.	<b>CERTIFICATIONS:</b> Complies with the requirements of UL-1838 and CAN/CSA-C22.2 No. 250.7. Identified with the ETL & cETL Listed Mark.
<b>LENS:</b> Frosted polycarbonate lens installed. Clear lens included.	
<b>MOUNTING:</b> Pre-installed large 8.5" plastic ground stake (STAKE-P2). Slotted for easy removal without having to cut the wire lead.	

**DIMENSIONS:**

Fixture Height	22 inches
Fixture Width	6 inches
Stem Thickness	1 inch
Ship Weight	3.21 pounds



Page 1 of 2



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Alliance Outdoor Lighting • (800) 930-6225 • www.allianceoutdoorlighting.com

240426  
Rev. 04/2024



### Specification Sheet

#### MODEL: PL300 | MODERN G4 BIPIN PATH LIGHT

#### FINISH OPTIONS:

Aged Brass (Standard)
Premium Black Overcoat (Add -BLK)

#### G4 BIPIN LAMP OPTIONS:

ADD SUFFIX	WATTAGE	DELIVERED LUMENS	COLOR TEMP.
-LBIPIN-LED-200lm*	2.5	200	2700K
-LBIPIN-LED-250lm	3	250	2700K
-LBIPIN-LED-350lm	3.5	350	2700K

\* = standard light source option

#### 1/2" NPT MOUNTING OPTIONS (SOLD SEPARATELY):

<b>STAKE-P3</b> – Giant Slotted 14" Plastic Ground Stake
<b>PERMAPOST</b> – Heavy Duty Stake with Brass Locking Nut & Stabilizing Fins
<b>RMB</b> – Brass Round Mounting Base
<b>RMB-BLK</b> – Black Overcoat Brass Round Mounting Base



#### HOW TO SPECIFY: Example: PL300-BLK-LED

BASE PART #	FINISH	SUFFIX	ORDERING #	LAMP	ORDERING #	ORDER ACCESSORIES
PL300	Aged Brass (Standard)		PL300	Add Lamp Suffix	PL300-LED	Mounting
	Premium Black Overcoat	-BLK	PL300-BLK		PL300-BLK-LED	

Page 2 of 2



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240426  
Rev. 04/2024

## Fixture #4

### FX Luminaire

#### LED Path Lights



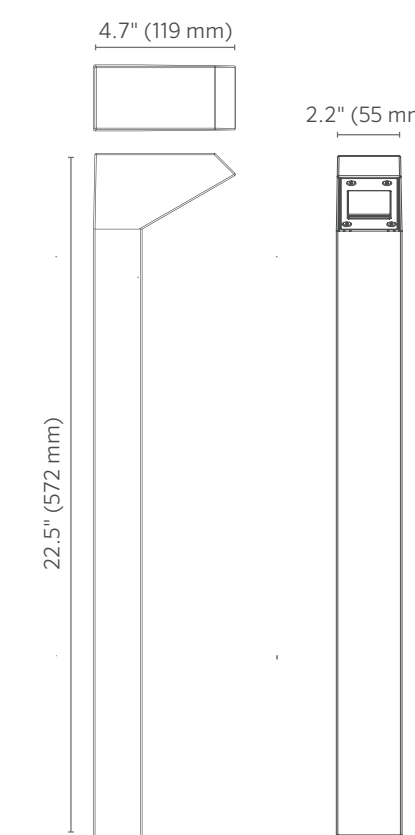
PROJECT \_\_\_\_\_  
CATALOG # \_\_\_\_\_  
TYPE \_\_\_\_\_  
NOTES \_\_\_\_\_

### M-PK Path Light DESIGNER PLUS

Made with durable die-cast aluminum, the stylish M-PK path light adds elegance and sophistication to modern lighting installations.

#### Quick Facts

- Tamper-resistant features
- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Cree® integrated LEDs
- Compatible with Luxor® technology
- Phase and PWM dimmable
- Input voltage: 10-15 V



#### LANDSCAPE LIGHTING

### M-PK Path Light SPECIFICATIONS

Lamp	1 LED	3LED	ZDC
Total Lumens*	67	152	110
Input Voltage	10 to 15V	10 to 15V	11 to 15V
Input Power (W)	2.0	4.2	6.0
VA Total	2.4	4.5	7.2
Lumens per Watt (Efficacy)	34	36	18
CRI (Ra)	80+	80+	80+
Max Candela	60	143	74
Dimming	PWM, Phase	PWM, Phase	--
RGBW Available	No	No	Yes
Luxor Compatibility			
Default	Zoning	Zoning	--
ZD Option	Zoning/Dimming	Zoning/Dimming	--
ZDC Option	--	--	Zoning/Dimming/Color
Minimum Rated Life (L90/B10)	55,000 Hrs	55,000 Hrs	55,000 Hrs

\*Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).

**FX Luminaire**  
FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and color adjustment capabilities. We offer a full spectrum of specification-driven lighting fixtures that can be utilized to create elegant, cutting-edge landscape lighting systems for commercial or residential applications. Our products are available exclusively via our extensive professional distributor network.

**Materials**  
Die-cast A380 aluminum body with stainless steel hardware.

**Power**  
Input 10-15 VAC/VDC, 50/60 Hz. Remote transformer required (specify separately).

**Lamp**  
Integrated module with Cree LEDs. Gold-plated connectors and conformal coating for maximum reliability and corrosion resistance. Proprietary onboard intelligent driver uses firmware-controlled temperature regulation, maximizing LED life.

**Field upgradeable and replaceable:** the LEDs are rated to 55,000 hrs. Maximum drive current: 1 A.

**Socket**  
Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

**Optics**  
Polycarbonate color temperature adjustment lenses included with luminaire. 2,700K (pre-installed), 3,900K (no lens), 4,500K, and 5,200K. Photometry is calculated using LM-79 method for SSL fixtures.

**Wiring**  
18 AWG (1 mm), SPT-1W, 220°F (105°C), 300V, 10' (3 m) length

**Housing**  
Die-cast A380 aluminum body with capacity for 1LED, 3LED, or ZDC integrated LEDs.

**Lens**  
UV-stabilized acrylic lens with shock resistance and high tolerance for thermal expansion and stress.

**Finish**  
Two-layer protection of sulfuric acid powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

**Weight**  
1.0 lb. (0.5 kg)

**Manufacturing**  
ISO 9001:2015 certified facility

**Hardware**  
Stainless steel machine screws. Ships with 30" (762 mm) length of 1" (25 mm) conduit for mounting.

**Ambient Operating Temperature**  
0°F to 122°F (-18°C to 50°C)

**Control**  
ZD or ZDC utilizes Luxor technology to zone fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Select the ZD option for zoning/dimming or ZDC for zoning/dimming/color. Standard fixture is zoneable with Luxor.

**Sustainability**  
Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

**Installation Requirements**  
Designed for installation in the downward lighting direction only.

**International Compliance**  
Compliant per IEC 60598-1 and IEC 60598-2-7 by selecting "e" option in parts builder.

**Warranty**  
10-year limited warranty.

**Listings**  
UL LISTED (cULus) 3YJ8  
RoHS (com. test)  
CE  
IP 65

### M-PK Path Light ORDERING INFORMATION

Fixture Size	Luxor Option	Lamp	Compliance	Finish
M-PK*	[default] Zone	1LED 67 Lumens	[default] North America (UL Listed)	BZ Bronze
	ZD Zone/Dim	3LED 152 Lumens	e Int'l (CE Certified)	SV Silver
	ZDC Zone/Dim/Color	[default ZDC option] 110 Lumens		FB Black
				SB Sedona Brown
				AL Almond
				WG White Glass
				DG Desert Granite
				FW Flat White
				WI Weathered Iron

EXAMPLE FIXTURE CONFIGURATION:  
M-PK-ZD-1LED-SV  
\* Ships with 30" (762 mm) length of 1" (25 mm) conduit



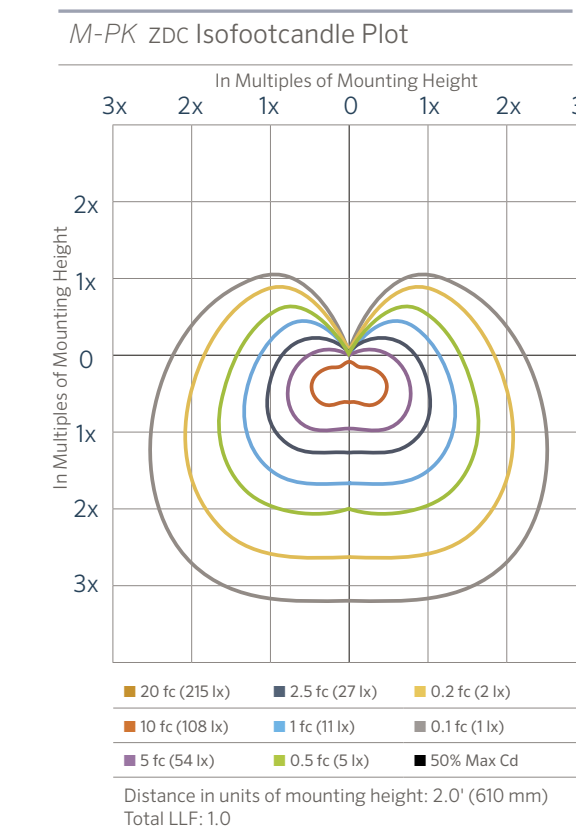
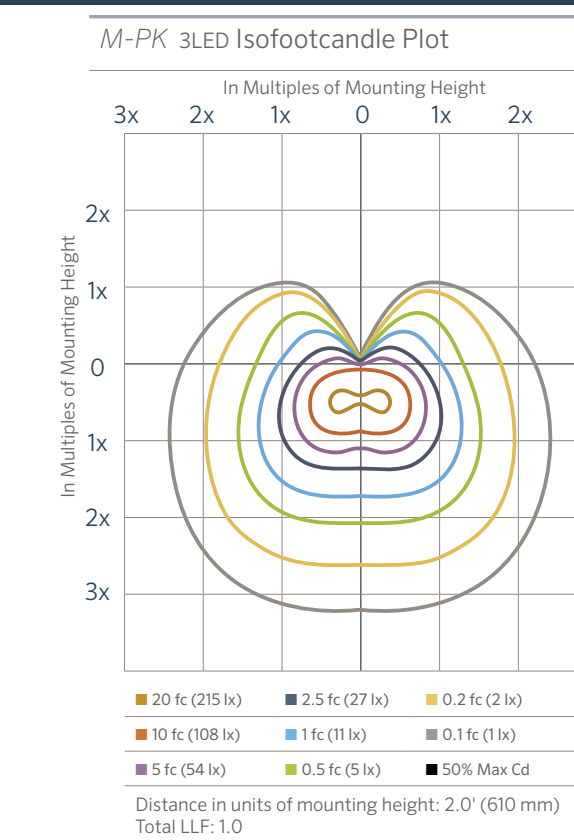
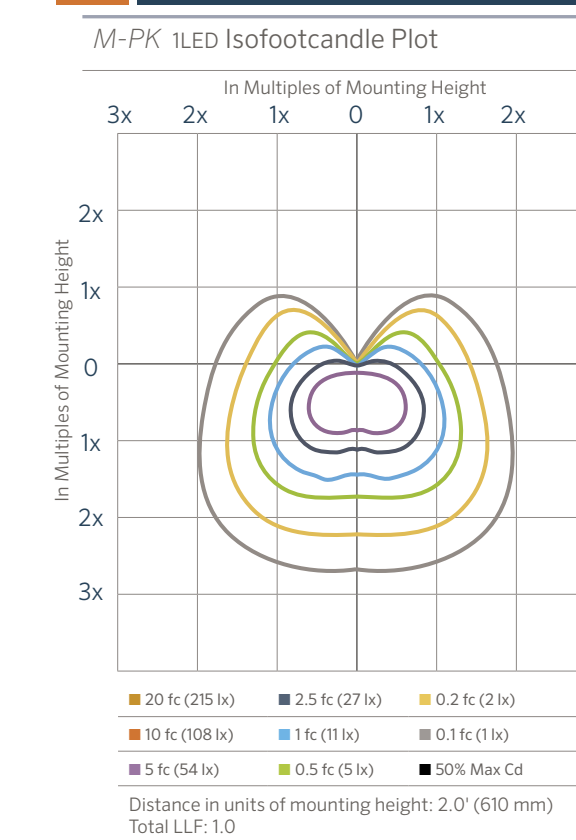
#### MOUNTING OPTIONS: Specify Separately

Mounts	Catalog No.
M-PL DECK MOUNT 2.2" x 1.6" x 1.7" (55 mm x 41 mm x 51 mm)	M-PL-DM-XX**

\*\*XX = Power coat color code

#### LANDSCAPE LIGHTING

### M-PK Path Light PHOTOMETRICS



Cree is a registered trademark of Cree Inc. MoistureBlock is a trademark of DSM&T Co. Inc. © 2019 Hunter Industries Inc. Hunter, FX Luminaire, all related logos, and all other trademarks are property of Hunter Industries, registered in the U.S. and other countries.

Learn more. Visit: fxl.com | +1 760.744.5240

FX-252-SS-DESIGNER-PATH-MPK-EN 9/19

MICCO

**DRAWING INFORMATION**  
ISSUE DATE: 25 NOV 2025  
SCALE: 1/16" = 1'-0"  
JOB NO.: 25006.00

PROJECT DESIGN PHASE

DRAWING NAME  
SITE LIGHTING CUT SHEETS

DRAWING NUMBER

# Fixture #5

**SONIC  
ER3005  
STEP LIGHTS**

PROJECT

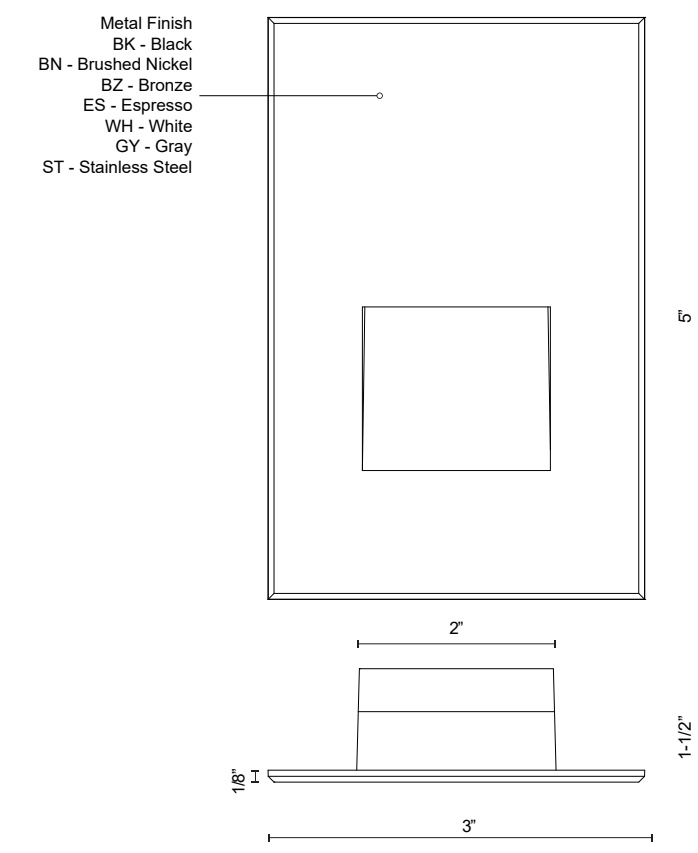


**SPECIFICATION DETAILS**

Fixture Dimensions	W3" x H5" x E1-1/2"
Light Source	AC LED Module
Wattage	4W
Total Lumens	250lm
Delivered Lumens	BK-23lm; ST-48lm; WH-66lm;
Voltage	120V
Color Temperature	3000K
CRI (Ra)	90CRI
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	100% - 10%, ELV Dimmer (Not Included)
Glass Details	Clear Glass
ADA Compliant	Yes
Location	Wet
Illumination Direction	Downlight
Paint Finish	BK02; BN01; GY01; WH02;

\* For custom options, consult factory for details.  
\* For warranty information, please visit [www.kuzcolighting.com/warranty](http://www.kuzcolighting.com/warranty)

**DESCRIPTION**  
A vertical rectangle-shaped recessed light in matte black, white powder or brushed nickel finish. The optically designed light control of Sonic's die cast Aluminum housing fully conceals the source. Ideal for step or courtesy light use. This fixture is rated for outdoor use but there is no reason it cannot be utilized indoors too. Only fits into a single gang box.



**KUZCO**  
CANADA- 19054 28TH AVENUE - SURREY, BC V3Z 6M3  
USA- 3935 E. LONE MOUNTAIN ROAD - LAS VEGAS, NV 89081  
[WWW.KUZCOLIGHTING.COM](http://WWW.KUZCOLIGHTING.COM)  
© 2024 KUZCO LIGHTING. ALL RIGHTS RESERVED.

COMMENT



**PROJECT ADDRESS**  
4828 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

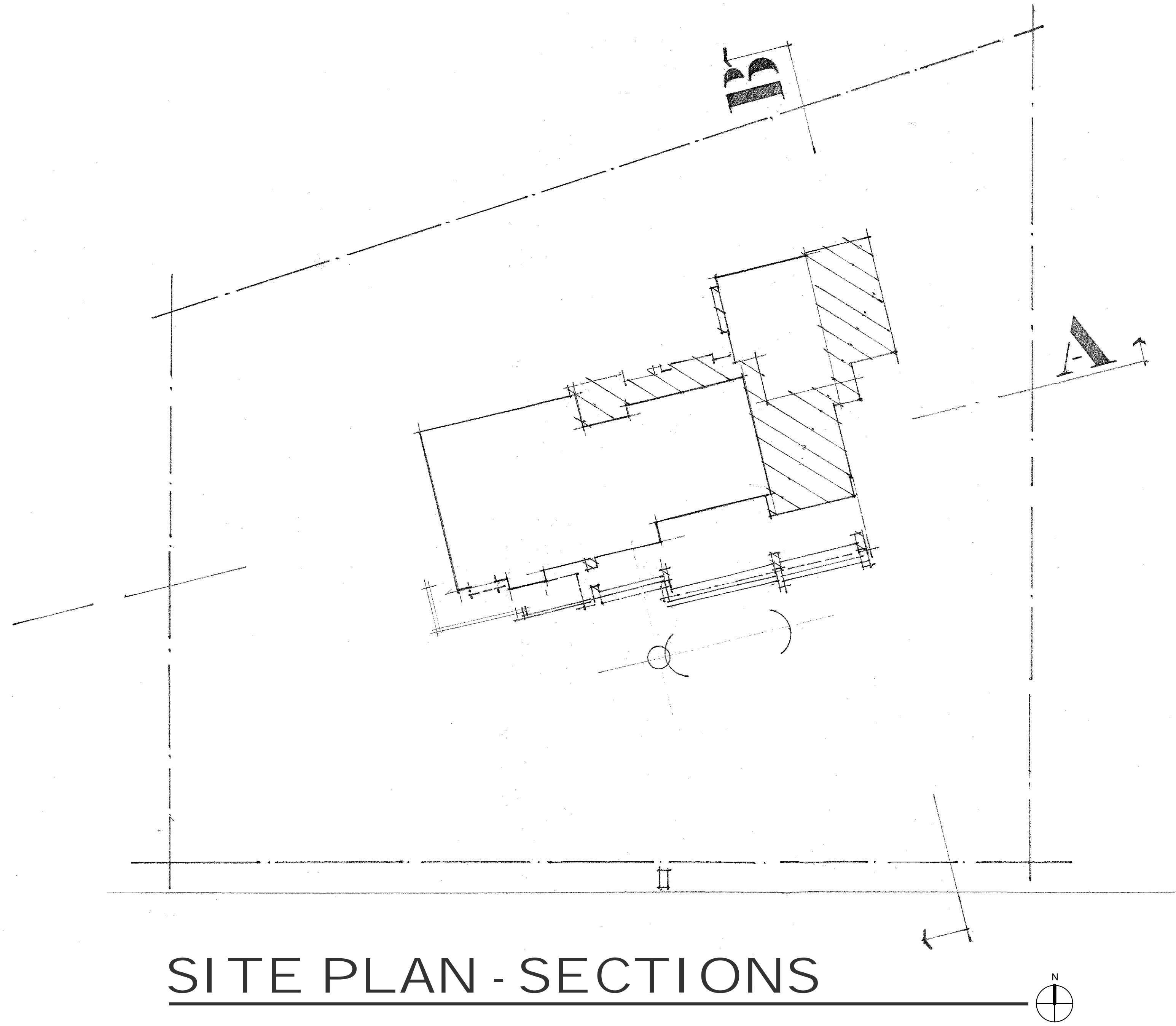
# MICCO

**DRAWING INFORMATION**

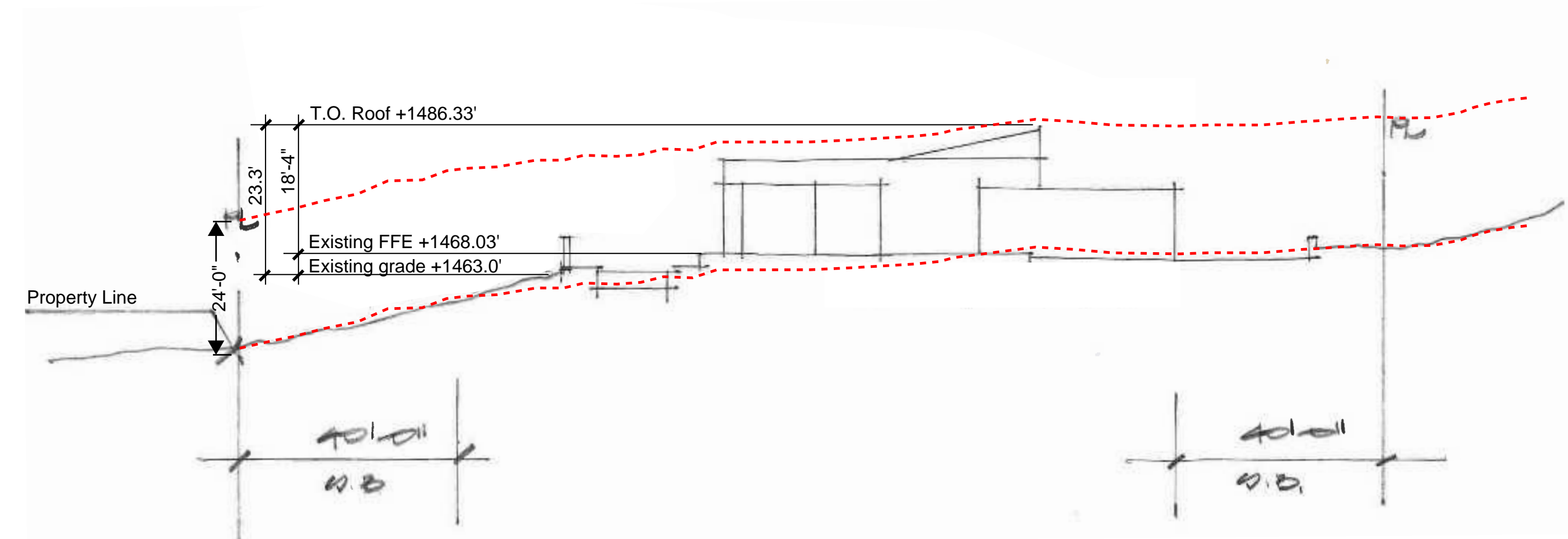
ISSUE DATE:	25 NOV 2025
SCALE:	1/16" = 1'-0"
JOB NO.:	25006.00

**PROJECT DESIGN PHASE**

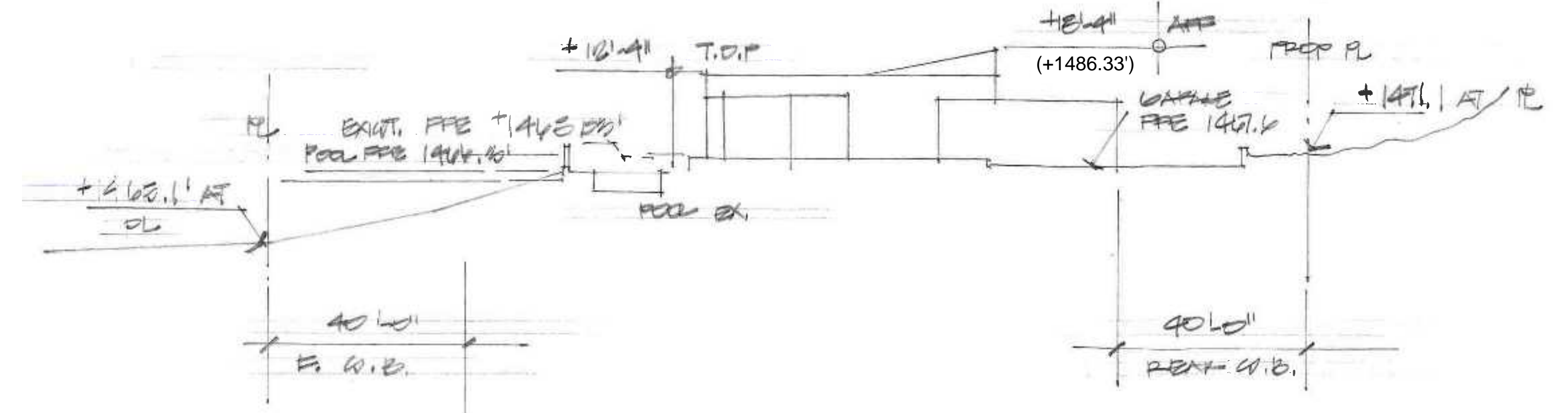
**DRAWING NAME**  
**SITE LIGHTING  
CUT SHEETS**  
**DRAWING NUMBER**



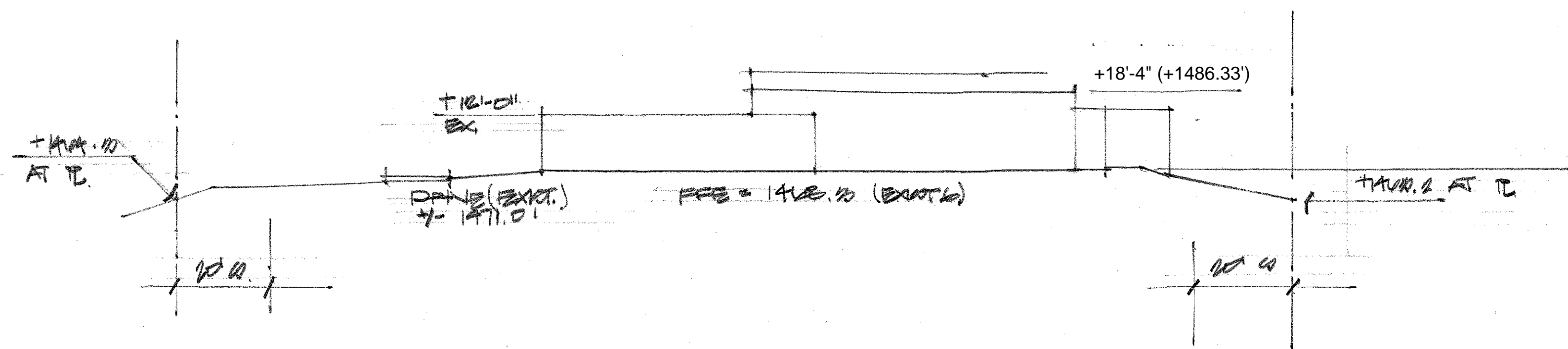
**SITE PLAN - SECTIONS**



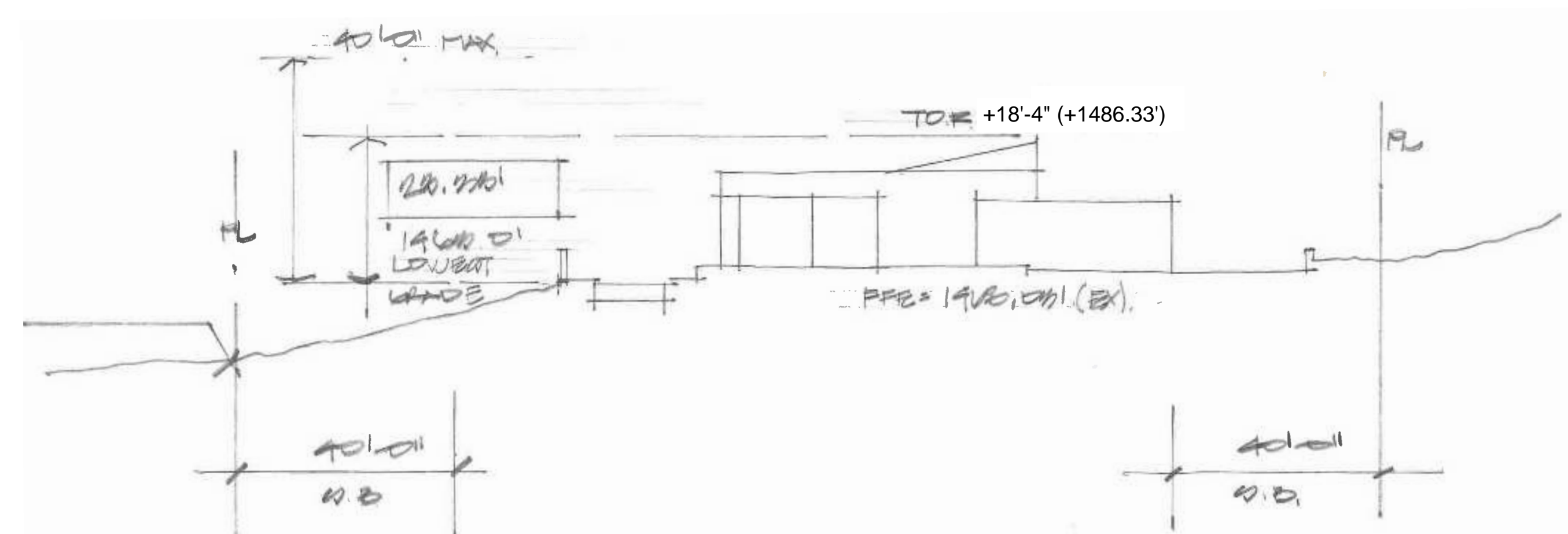
**SECTION - B (24FT PARALLEL CONTOUR)**



**SECTION - B (EXISTING F.F.E. AND HEIGHTS)**



**SECTION - A**



**SECTION - B (OVERALL MAX HEIGHT VS 40')**

Plot Plan Notes

1. All grading to be in conformance with Maricopa County and Town of Paradise Valley ordinances.

2. Prior to the first footing inspection of any type, all property pins shall be placed by a registered land surveyor of the State of Arizona, and all property lines must be physically identified prior to inspection.

3. This plan is designed to show site grading and drainage. Contractor shall use the architectural site plan for final locations of house, walls, steps and dimensions.

4. A dust control plan meeting the requirements of rule 310 Maricopa County air pollution control regulations, as amended, is required.

5. Pools and or spas shall be constructed by separate permit and be secured from unwanted access. All doors and windows accessing the pool area must comply with section 421.1.5 and 421.1.1.6 pool barriers, and section 2406.2 and 2406.4 item 9, glazing in hazardous locations.

6. Contractor shall field verify all existing utilities and features prior to construction and coordinate with architect for resolution of potential conflicts.

7. Five % minimum slope away from building for a minimum of 10'-0" - unless noted otherwise.

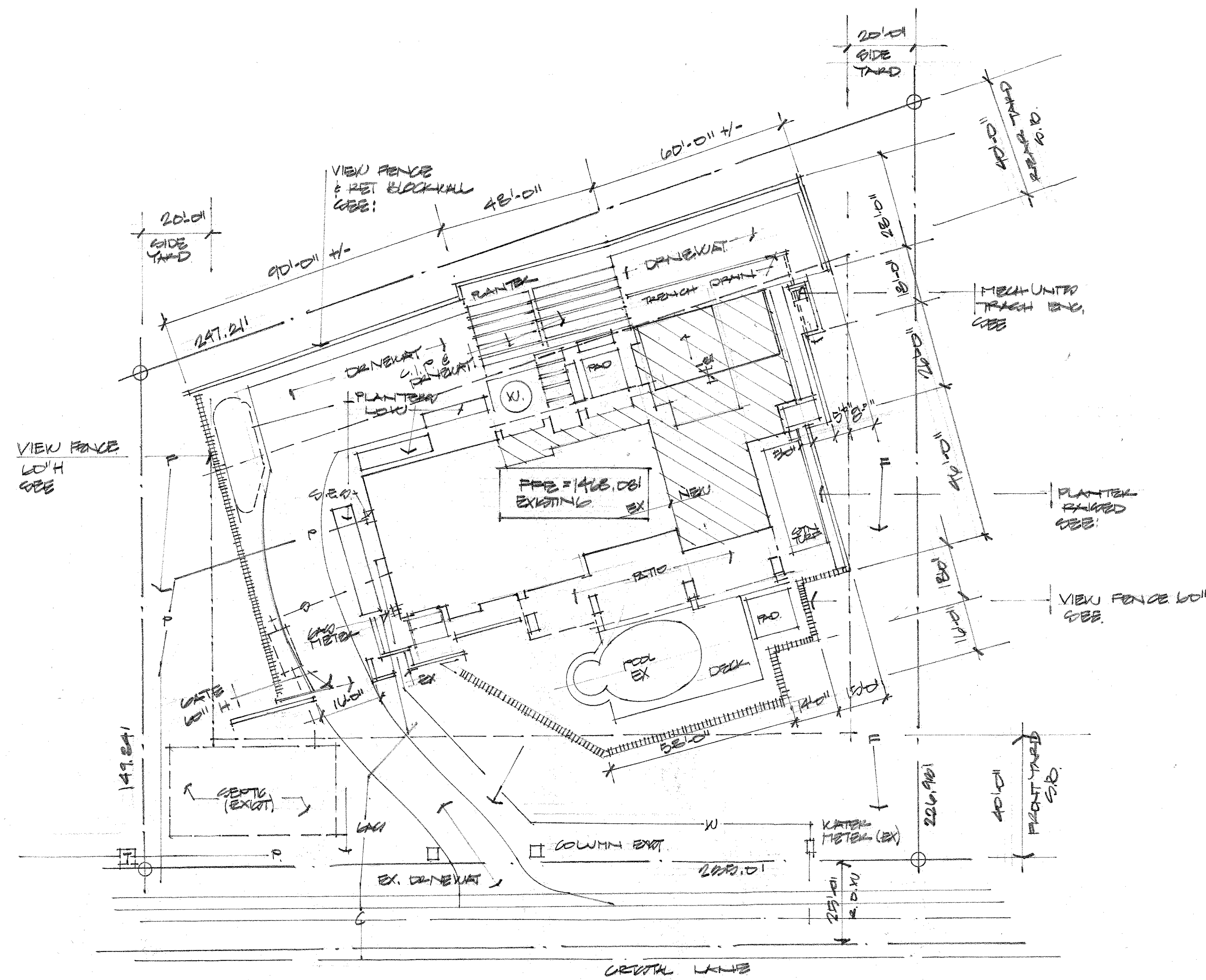
8. Barbecue unit: Provide a listed approved unit, installed in accordance with the listing and with the manufacturer's installation instructions. The unit shall conform to ANSI Z 21.58-1993 and shall be approved by nationally recognized testing agency. n/a

9. Masonry site walls, or fences, to be constructed under separate permit.

Note:

1. A finish Floor elevation certificate shall be furnished by the registrant, to the field inspector, prior to rough framing inspection.
2. Per Town of Paradise Valley, Survey Certification of building layout required prior to construction.
3. Town of Paradise Valley Dust Control Plan submitted.
4. Demolition be separate Permit if required.

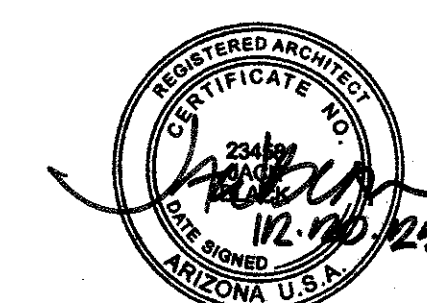
Building Data  
Type V B  
Single Family Residential  
Zoning R-43 HillSide (submittal underway)



4628 E. CRYSTAL - PLOT PLAN

4628  
1" = 20'-0"

PLOT  
A 1.0



REV. EXP. 6.31.26

4628 E Crystal Lane, Paradise Valley

APN # 169-11-043  
Paradise Valley Country Estates, Lot 39  
MCR # 102-28

**Site Plan Notes**

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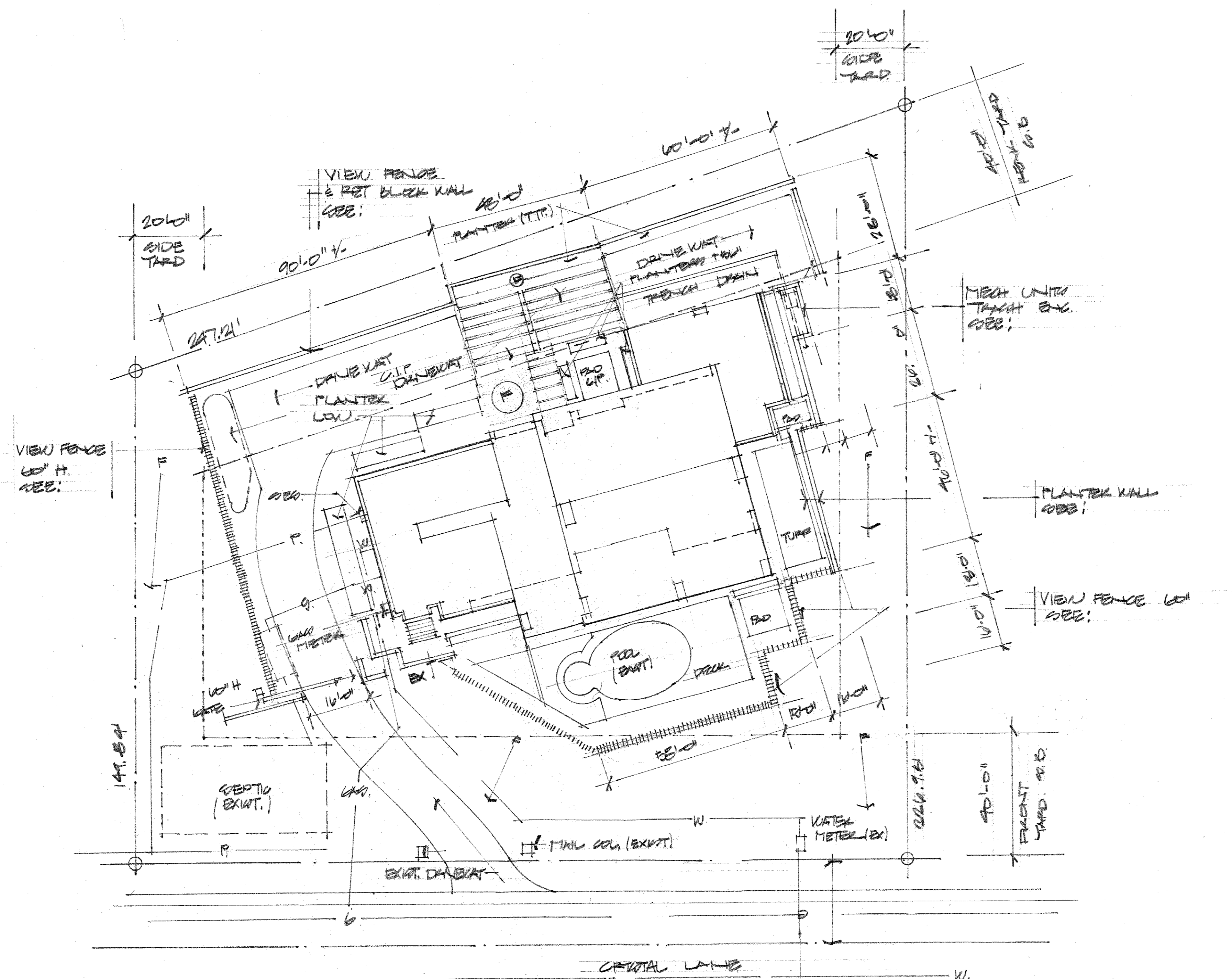
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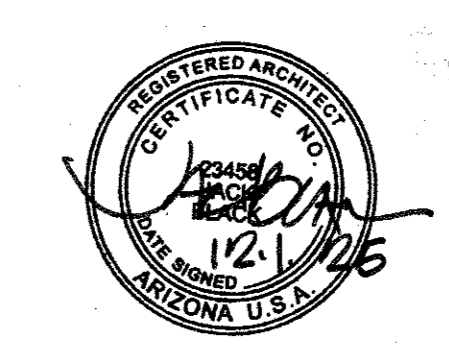
Building Data  
Type V B  
Single Family Residential  
Zoning R-43



**4628** E CRYSTAL LANE . SITE PLAN

1" = 20'-0"

**SITE  
A 1.1**



REL. EXP:  
3-31-26



PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

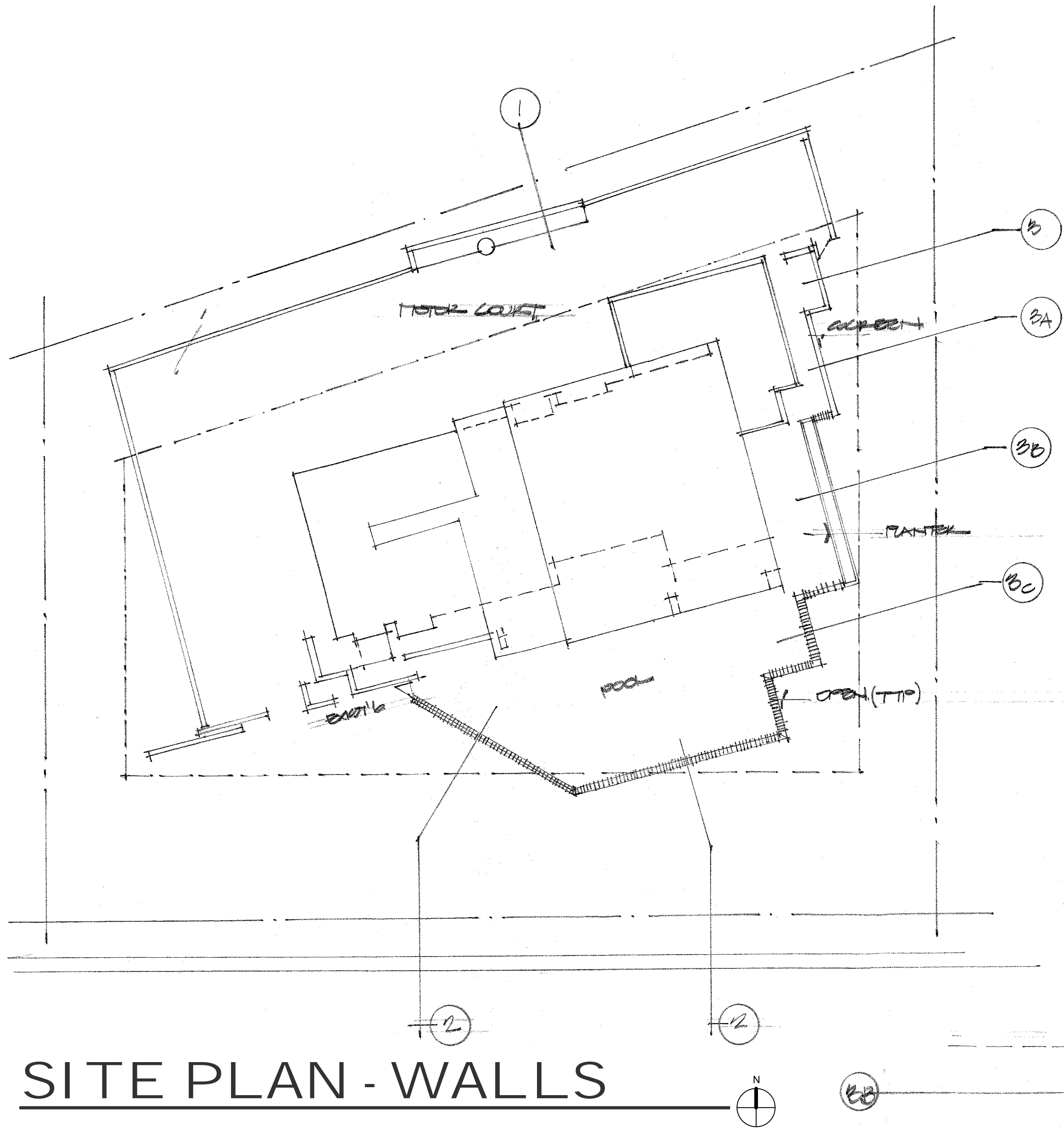
ARCHITECT  
Jack Black  
602-708-0694

# MICCO

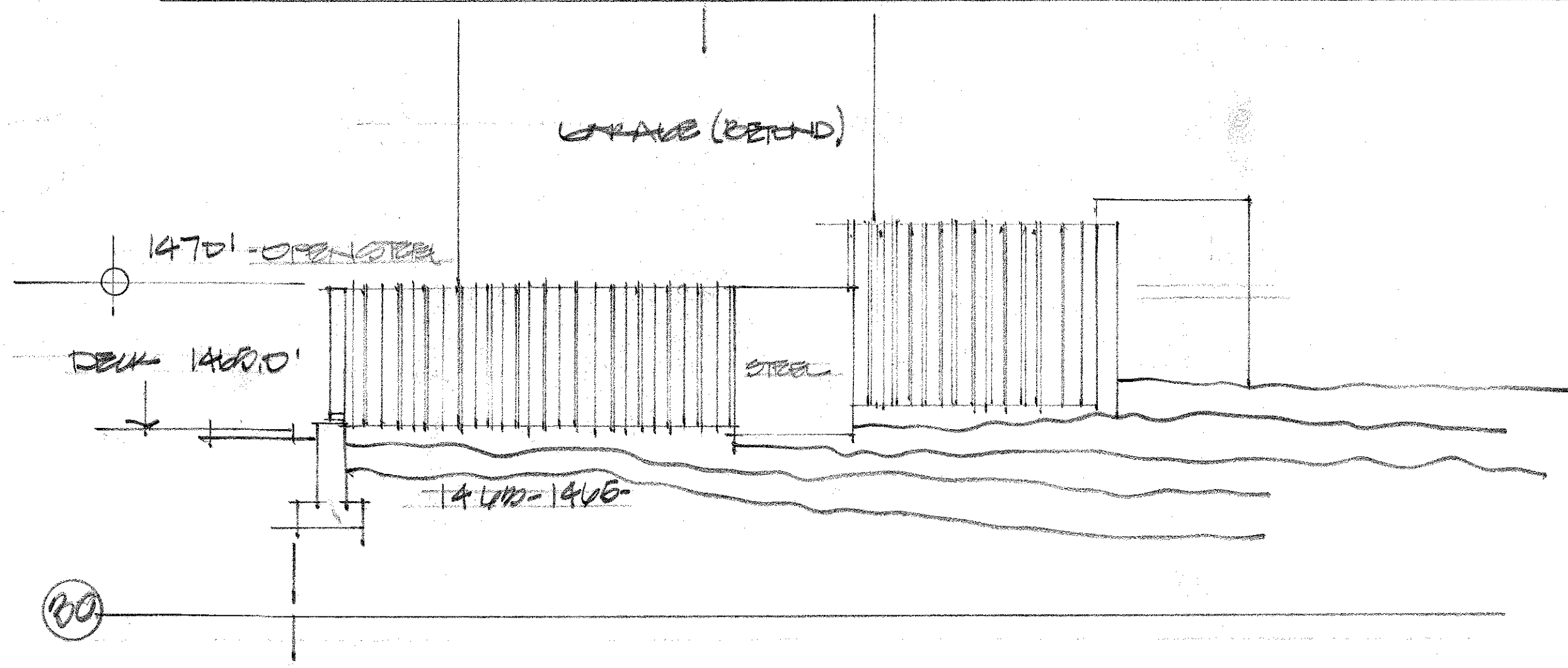
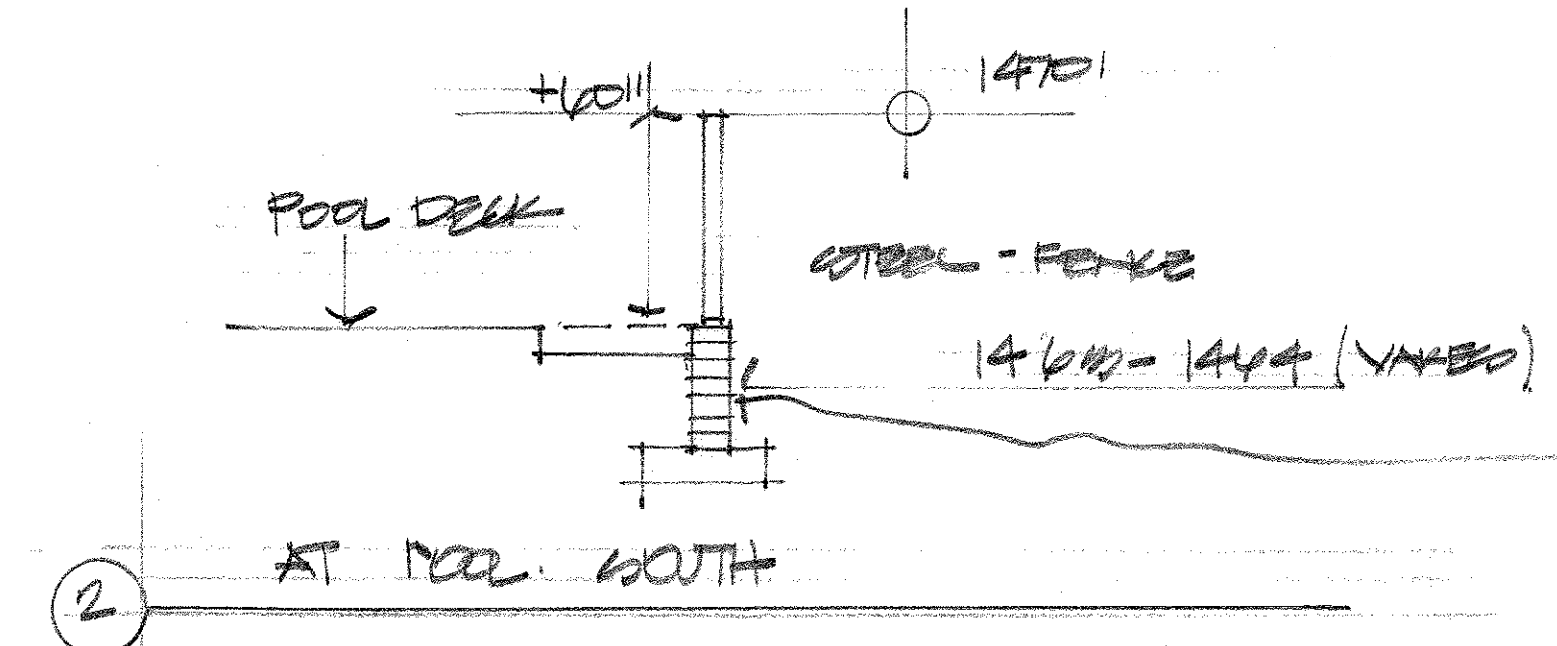
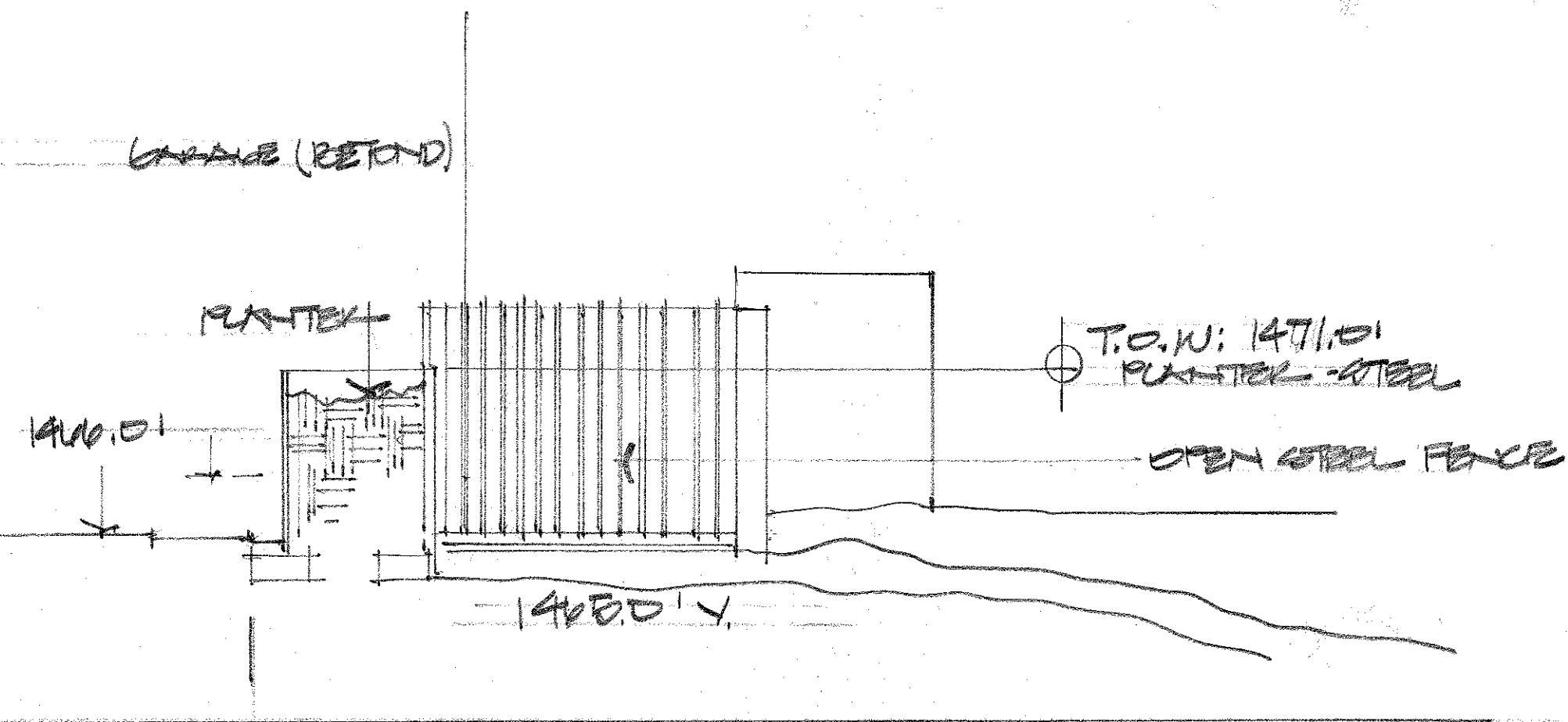
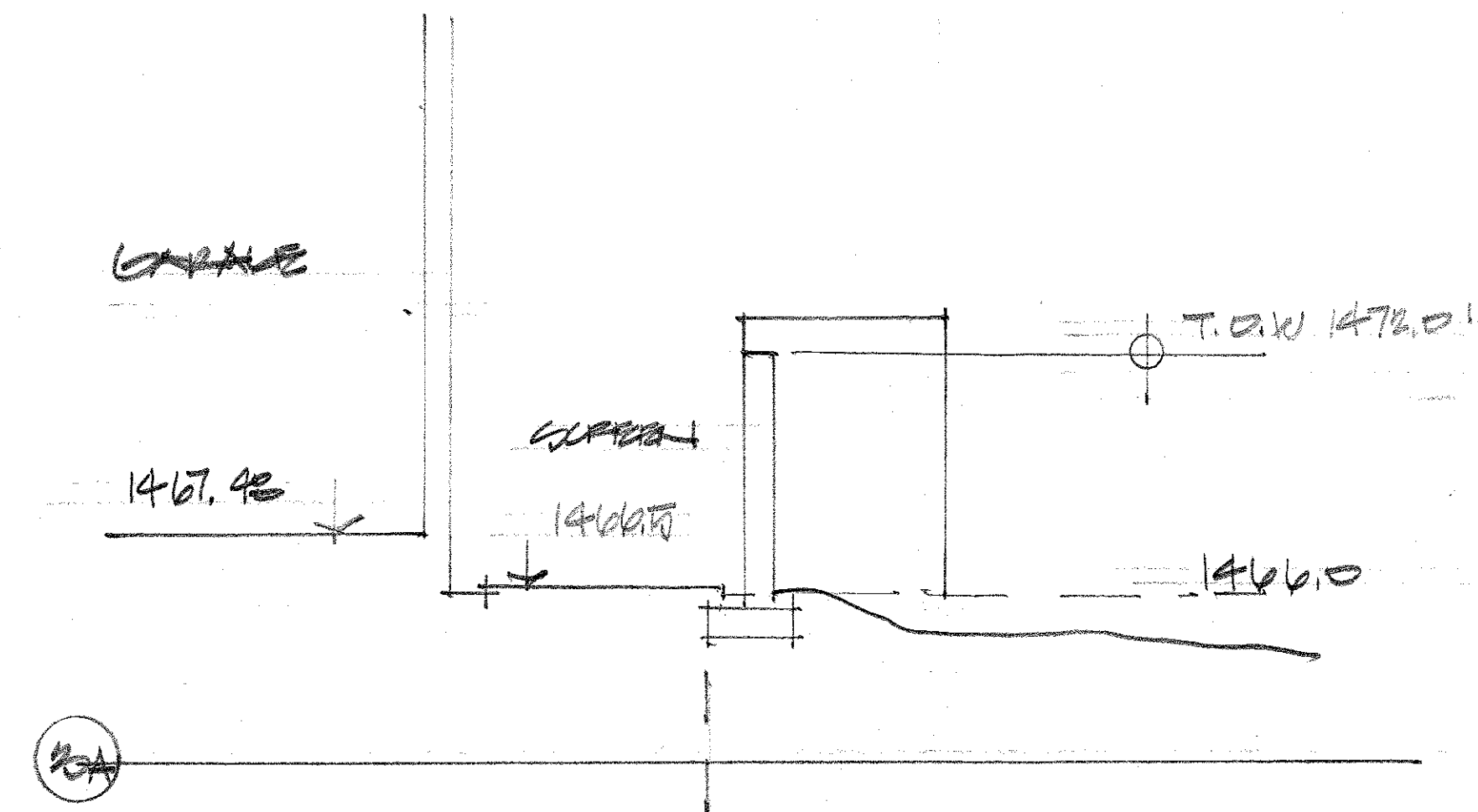
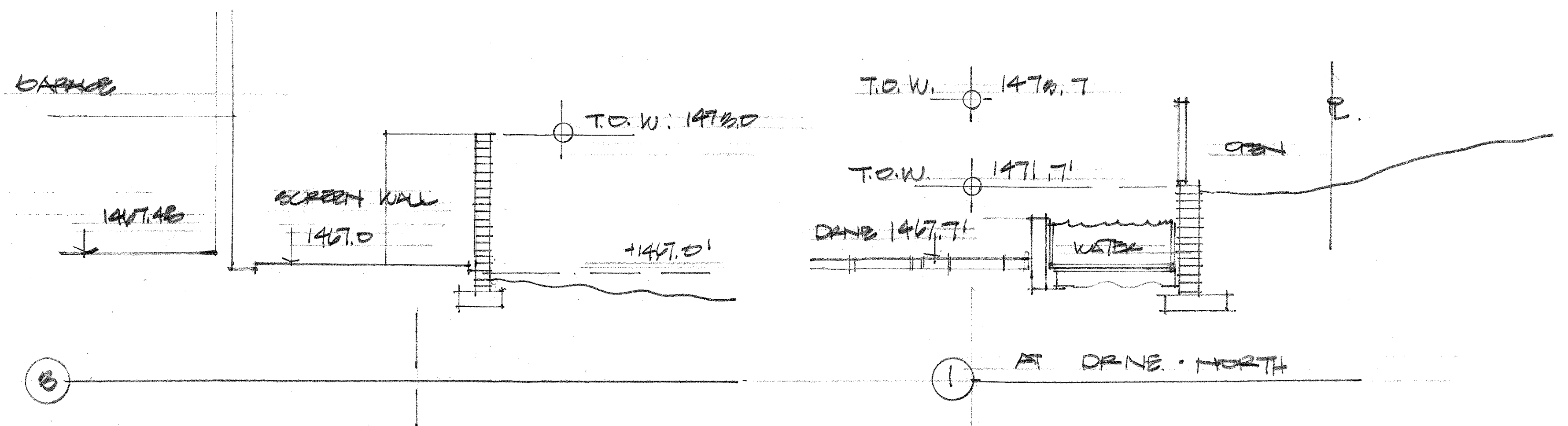
COLORED SITE PLAN

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1" = 20'-0"



SITE PLAN - WALLS



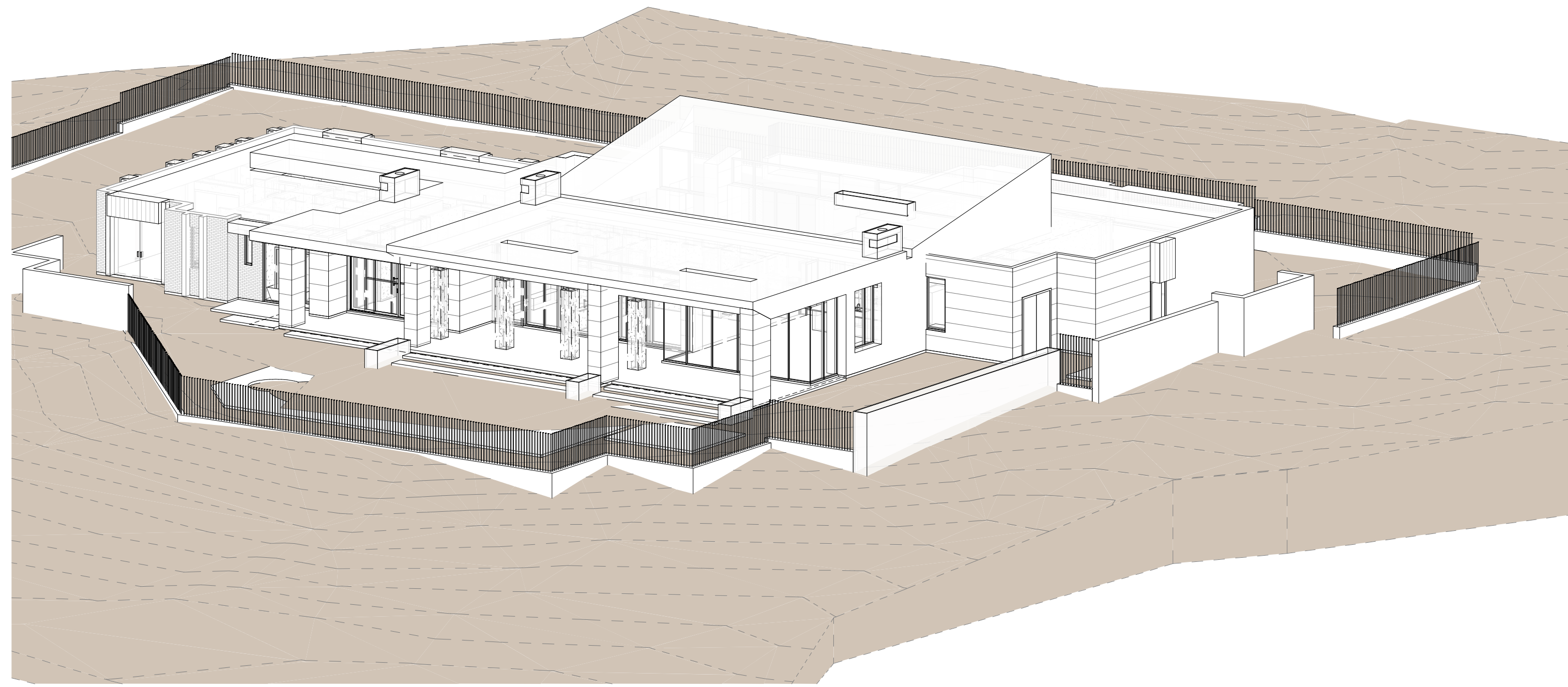
PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

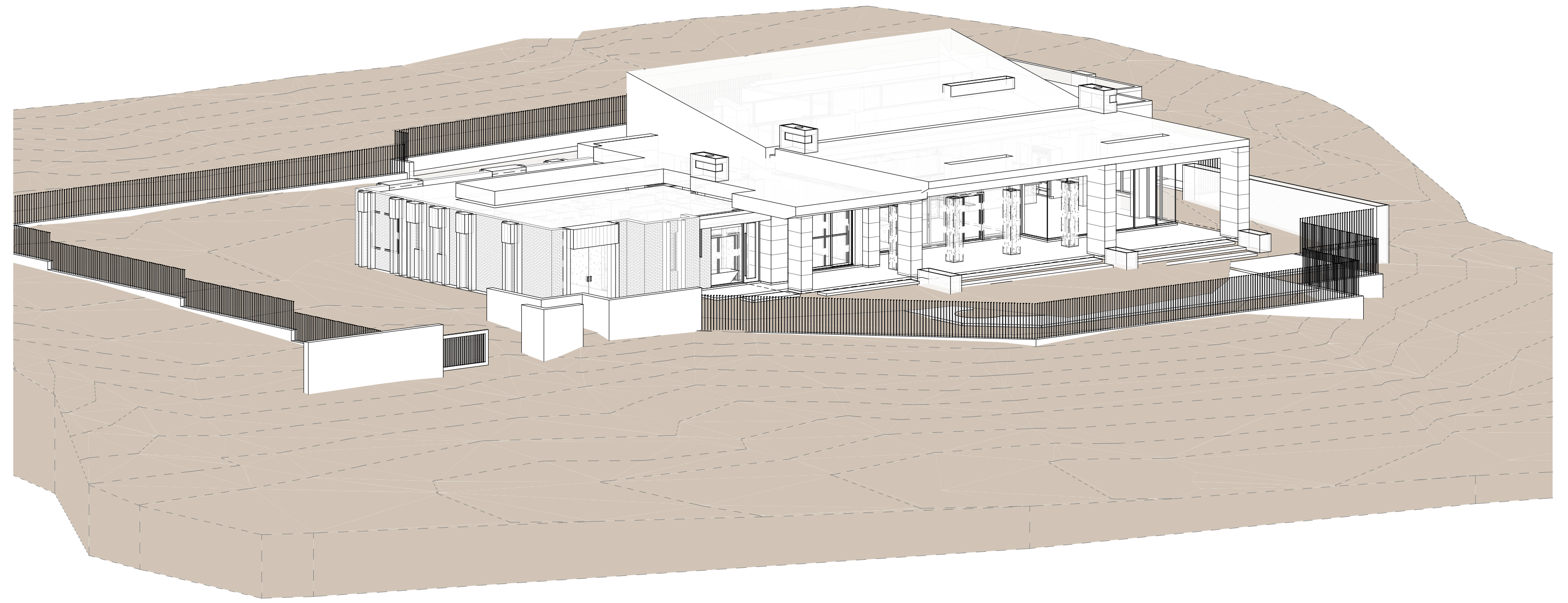
**MICCO**  
SITE PLAN - WALLS

HILLSIDE MATERIALS

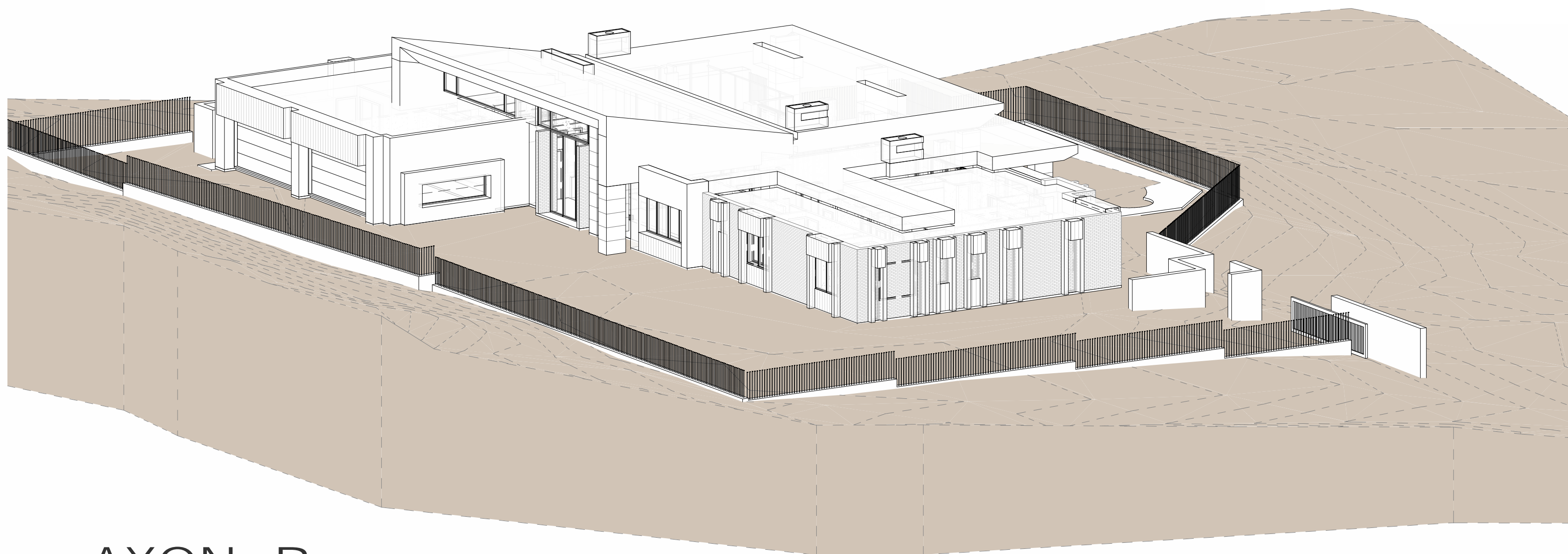
DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 1" = 20'-0"



AXON - A



AXON - C



AXON - B

**GENERAL NOTES:**  
 - conceptual axons - final materials not rendered  
 - all landscape removed for clarity

PROJECT ADDRESS  
 4628 E CRYSTAL LANE  
 PARADISE VALLEY, ARIZONA

ARCHITECT  
 Jack Black  
 602-708-0694

**MICCO**  
 AXONS AND SITE WALLS - FOR REFERENCE

HILLSIDE MATERIALS

DRAWING INFORMATION  
 ISSUE DATE: 16 SEP 2025  
 SCALE: 3/16" = 1'-0"



1. EXISTING "ADOBE" BLOCK
2. STUCCO
3. LIGHT BRONZE
4. RUSTED PANEL
5. DARK ROOF
6. DARK BRONZE
7. FIREPLACE TRIM AND GATES
8. MISC. METALS

PROJECT ADDRESS  
 4628 E CRYSTAL LANE  
 PARADISE VALLEY, ARIZONA

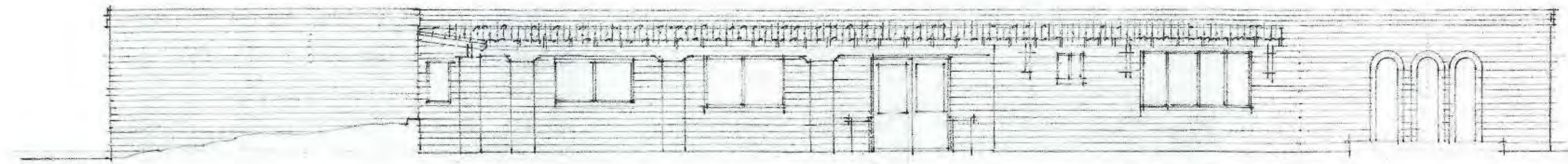
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 Jack Black  
 602-708-0694

# MICCO

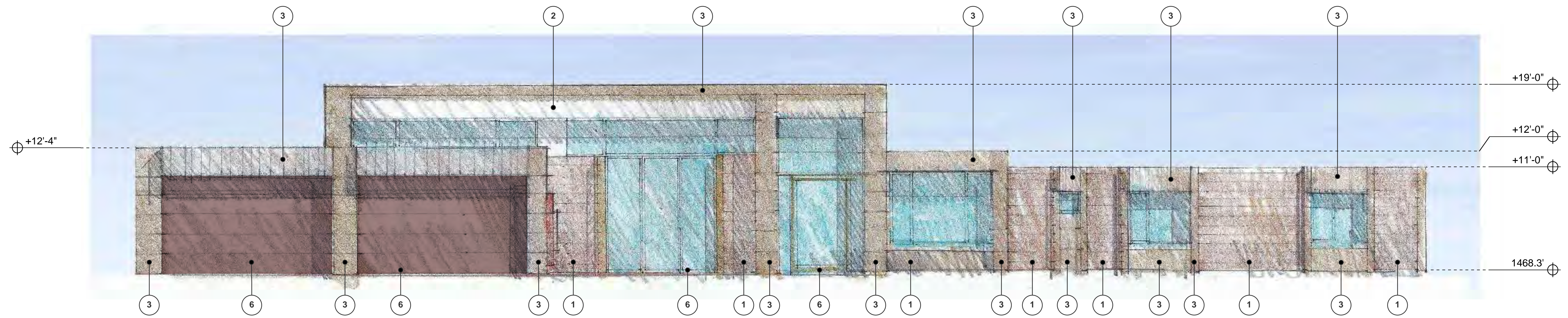
EXTERIOR MATERIAL SAMPLES

HILLSIDE MATERIALS

DRAWING INFORMATION  
 ISSUE DATE: 16 SEP 2025  
 SCALE: NTS



EXISTING



PROPOSED

**MATERIAL LEGEND**

- 1. EXISTING "ADOBE" BLOCK
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- 3. LIGHT BRONZE
- 4. RUSTED PANEL
- 5. DARK ROOF
- 6. DARK BRONZE
- 7. FIREPLACE TRIM AND GATES
- 8. MISC. METALS

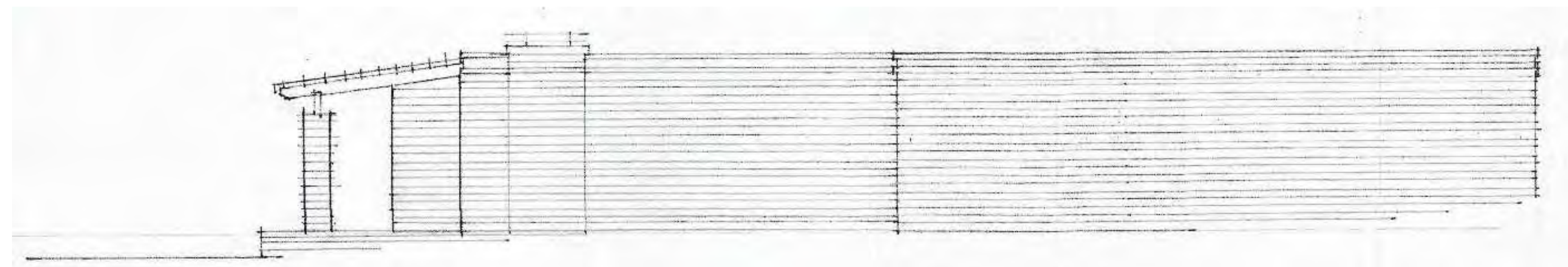
PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

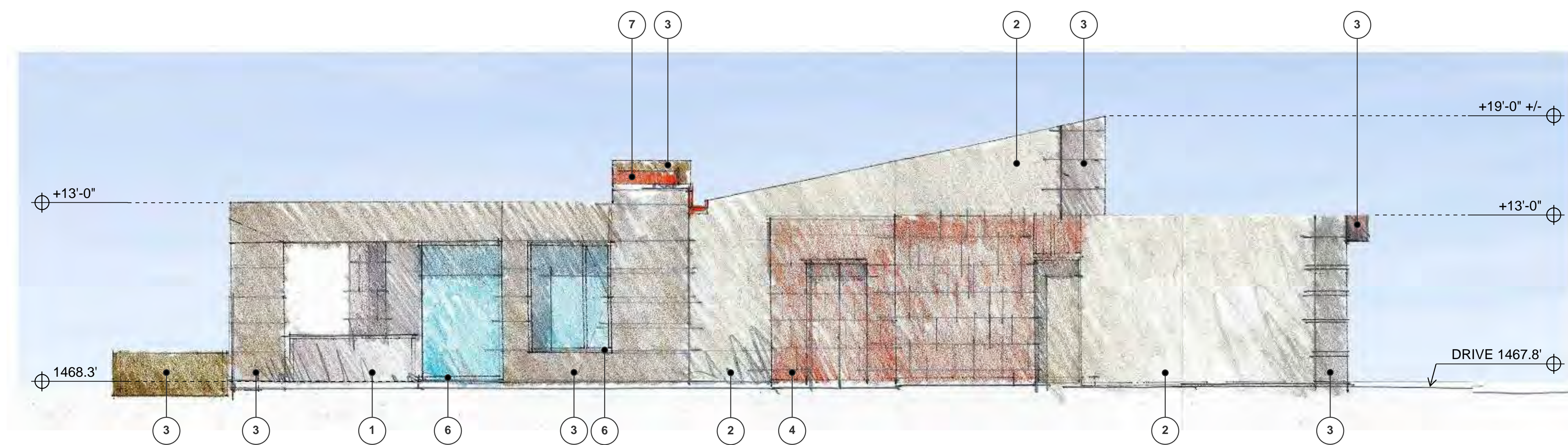
**MICCO**  
NORTH ELEVATION

**HILLSIDE MATERIALS**

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 3/16" = 1'-0"



EXISTING



PROPOSED

**MATERIAL LEGEND**

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- 6. DARK BRONZE
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- 8. MISC. METALS

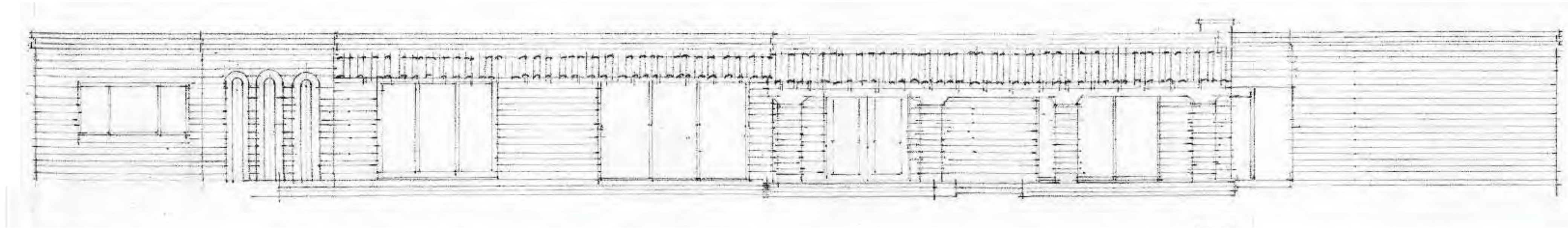
PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

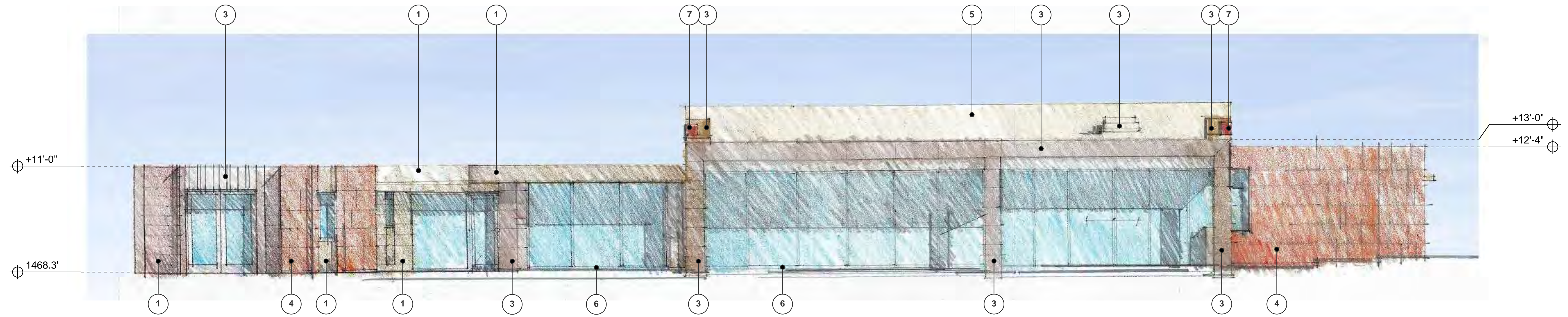
**MICCO**  
EAST ELEVATION

**HILLSIDE MATERIALS**

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 3/16" = 1'-0"



EXISTING



PROPOSED

**MATERIAL LEGEND**

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- 2. STUCCO
- 3. LIGHT BRONZE
- 4. RUSTED PANEL
- 5. DARK ROOF
- 6. DARK BRONZE
- 7. FIREPLACE TRIM AND GATES
- 8. MISC. METALS

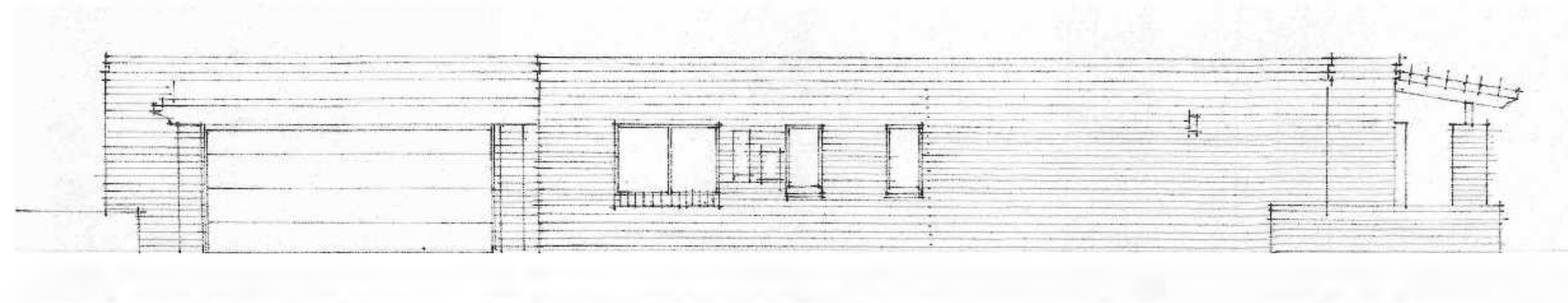
PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

**MICCO**  
SOUTH ELEVATION

HILLSIDE MATERIALS

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 3/16" = 1'-0"



EXISTING



PROPOSED

**MATERIAL LEGEND**

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PROJECT ADDRESS  
4628 E CRYSTAL LANE  
PARADISE VALLEY, ARIZONA

ARCHITECT  
Jack Black  
602-708-0694

**MICCO**  
WEST ELEVATION

**HILLSIDE MATERIALS**

DRAWING INFORMATION  
ISSUE DATE: 16 SEP 2025  
SCALE: 3/16" = 1'-0"



PERSPECTIVE - A



PERSPECTIVE - B



PERSPECTIVE - C

**GENERAL NOTES:**  
 - conceptual axons - final materials not rendered  
 - all landscape removed for clarity

PROJECT ADDRESS  
 4628 E CRYSTAL LANE  
 PARADISE VALLEY, ARIZONA

ARCHITECT  
 Jack Black  
 602-708-0694

HILLSIDE MATERIALS

DRAWING INFORMATION  
 ISSUE DATE: 16 SEP 2025  
 SCALE: 3/16" = 1'-0"

**MICCO**  
 MASSING PERSPECTIVES FOR REFERENCE





BRONZE METAL PANEL

PLASTER SOFFIT,  
PAINTED

RUSTED METAL PANEL

METAL SCREEN  
FENCING



EXISTING CONDITIONS, FOR REFERENCE





RUSTED METAL PANEL

EXISTING MORTAR  
WASHED ADOBE BLOCK

PLASTER SOFFIT,  
PAINTED

BRONZE METAL PANEL

METAL SCREEN  
FENCING



EXISTING CONDITIONS, FOR REFERENCE

**AFFIDAVIT OF MAILING NOTIFICATION**

STATE OF ARIZONA )

) ss:

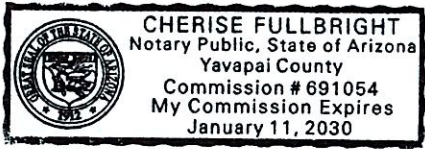
County of Maricopa )

In accordance with the requirements of the Town of Paradise Valley, the undersigned hereby certifies that the mailing list for the proposed project is a complete list of property owners within 1500 feet of the subject property, as obtained from the Maricopa County Assessor's Office on the following date Mar 20, 2026, and such notification has been mailed on the following date Mar 27, 2026.

Michael Micco  
Signature

The foregoing instrument was acknowledged by me this 27th day of March, 2026, by Michael James Micco.

Name Cherise Fullbright



NOTARY PUBLIC

My commission expires:  
January 11, 2030

**AFFIDAVIT OF POSTING**

STATE OF ARIZONA )

) ss:

County of Maricopa )

I, Michael Micco, depose and state that the attached notice, of proposed application concept review located at 4620 E Crystal Ln, 85253 for the (Planning Commission/Town Council/Board of Adjustment/Hillside Committee) meeting date of April 15, 2026 is a true and correct copy of a notice which I cause to be posted by the following day of the week Friday, and on the following date Mar 27, 2026 in the following location(s):

Front yard by driveway

All in the Town of Paradise Valley, Arizona and County and State aforesaid, the same being public places in said County and in the following locations:

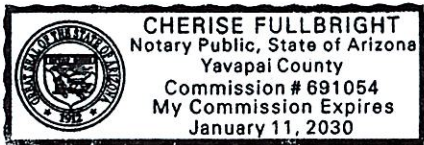
All to the Town of Paradise Valley, Arizona and County and State aforesaid.

DATED this 27<sup>th</sup> day of March, 2026.

Michael Micco  
Signature

This affidavit was SUBSCRIBED AND SWORN to before me this 27<sup>th</sup> day of March, 2026

Cherise Fullbright  
NOTARY PUBLIC



My commission expires:

January 11, 2030



  
**NOTICE OF HEARING**  
YOUR CITY COUNCIL HAS SET A PUBLIC HEARING FOR THE PROPOSED AMENDMENT TO THE CITY OF PHOENIX ZONING ORDINANCE.  
DATE: 08/11/2010  
TIME: 10:00 AM  
LOCATION: CITY OF PHOENIX COUNCIL CHAMBERS  
CITY OF PHOENIX  
150 NORTH CENTRAL AVENUE  
PHOENIX, AZ 85004  
FOR MORE INFORMATION, PLEASE CONTACT THE CITY CLERK AT (602) 350-2200.  
CITY OF PHOENIX