## **ABBREVIATIONS**

ABC		AGGREGATE BASE COURSE
A.F.F.		ABOVE FINISHED FLOOR
C.I.		CAST IRON
C.M.U.		CONCRETE MASONRY UNIT
DW		DISHWASHER
F.O.P.		FACE OF POST
F.O.S.		FACE OF STUD
F.F.		FINISHED FLOOR
FG		FIBER GLASS
FLUOR.		FLUORESCENT (LIGHT FIXTURE)
F.V.		FIELD VERIFY
GSM		GALVANIZED SHEET METAL
GFI		GROUND FAULT CIRCUIT
GYP. BR	D.	GYPSUM BOARD
I.B.C.		INTERNATIONAL BUILDING CODE
I.C.C.		INTERNATIONAL CODE COUNCIL
I.F.C.		INTERNATIONAL FIRE CODE
I.M.C.		INTERNATIONAL MECHANICAL CODE
I.P.C.		INTERNATIONAL PLUMBING CODE
I.R.C.		INTERNATIONAL RESIDENTIAL CODE
MFR.		MANUFACTURER
MICRO		MICROWAVE OVEN
N.E.C.		NATIONAL ELECTRIC CODE
N.T.S.		NOT TO SCALE
O.A.		OVER ALL
O.C.		ON CENTER
P.E.N.		PERIMETER EDGE NAILING
PTDF		PRESSURE TREATED DOUGLAS FIR
P.L.F.		PER LINEAR FOOT
REF		REFRIGERATOR
R		RISER (ie 16R=16 RISERS)
SPECS.		SPECIFICATIONS
SS		STAINLESS STEEL
TEMP.		TEMPERED GLASS
тс		TRASH COMPACTOR
TYP.		TYPICAL
U.O.N.		UNLESS OTHERWISE NOTED
WC		WATER CLOSET
WP		WATER PROOF
WI		WROUGHT IRON
WWF		WELDED WIRE FABRIC

## POOLS, SPA'S & HOT TUBS

WIMMING POOL IS DEFINED AS ANY CONTAINED BODY OF WATER 18 INCHES (457 MM) AT ANY POINT. THIS NCLUDES IN-GROUND, ABOVE GROUND AND ON-GROUND SWIMMING POOLS AND HOT TUBS AND SPAS.

### BARRIER REQUIREMENTS

THE PROVISIONS OF THIS CHAPTER SHALL CONTROL THE DESIGN OF BARRIERS FOR RESIDENTIAL SWIMMING POOLS, SPAS AND HOT TUBS. THESE DESIGN CONTROLS ARE INTENDED TO PROVIDE PROTECTION AGAINST POTENTIAL DROWNINGS AND NEAR DROWNINGS BY RESTRICTING ACCESS TO SWIMMING POOLS, SPAS AND HOT TUBS

AN OUTDOOR SWIMMING POOL, INCLUDING AN IN-GROUND, ABOVE-GROUND OR ON-GROUND POOL, HOT TUB OR SPA SHALL BE SURROUNDED BY A BARRIER WHICH SHALL COMPLY WITH THE FOLLOWING:

- THE TOP OF THE BARRIER SHALL BE AT LEAST 60 INCHES (1524 MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. THE TOP OF THE BARRIER THAT SEPARATES THE SWIMMING POOL ONLY FROM HABITABLE SPACES ON THE SAME PROPERTY SHALL BE AT LEAST 48 INCHES (1219 MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE 2 INCHES (51 MM). THE MAXIMUM VERTICAL CLEARANCE AT THE BOTTOM OF THE BARRIER MAY BE INCREASED TO 4 INCHES (102 MM) WHEN GRADE IS A SOLID SURFACE SUCH AS CONCRETE. THE BARRIER SHALL BE AT LEAST 20 INCHES FROM THE WATER'S EDGE.
- OPENINGS IN THE BARRIER SHALL NOT ALLOW PASSAGE OF A 4 INCH DIAMETER (102 MM) SPHERE. ANY DECORATIVE DESIGN WORK SUCH AS PROTRUSIONS, INDENTATIONS OR CUTOUTS WHICH MAKE THE BARRIER EASILY CLIMBABLE IS PROHIBITED.
- SOLID BARRIERS WHICH DO NOT HAVE OPENINGS, SUCH AS MASONRY OR STONE WALL, SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES AND TOOLED MASONRY JOINTS. THERE SHALL BE AT LEAST 45" INCHES BETWEEN HORIZONTAL ELEMENTS.
- MAXIMUM MESH SIZE FOR CHAIN LINK FENCES SHALL BE A 2 1/4 INCH (57 MM) SQUARE UNLESS THE FENCE HAS SLATS FASTENED AT THE TOP OR THE BOTTOM WHICH REDUCE THE OPENINGS TO NOT MORE THAN ' 3/4 INCHES (44 MM). CHAIN LINK FENCING SHALL NOT BE LESS THAN 11 GAUGE.
- WHERE THE BARRIER IS COMPOSED OF DIAGONAL MEMBERS, SUCH AS A LATTICE FENCE, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL NOT BE MORE THAN 1 3/4 INCHES (44MM).
- ACCESS GATES SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION, ITEMS 1 THROUGH 6, AND SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE. PEDESTRIAN ACCESS GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AND SHALL BE SELF-CLOSING AND HAVE A SELF-LATCHING DEVICE. GATES OTHER THAN PEDESTRIAN ACCESS GATES SHALL BE LOCKABLE. WHERE THE RELEASE MECHANISM OF THE SELF-LATCHING DEVICE IS LOCATED LESS THAN 54 INCHES (1372 MM) FROM THE BOTTOM OF THE GATE, THE RELEASE MECHANISM AND OPENINGS SHALL COMPLY WITH THE FOLLOWING: 7.1. THE RELEASE MECHANISM SHALL BE LOCATED ON THE POOL SIDE OF THE GATE AT LEAST 3 INCHES (76 MM) BELOW THE TOP OF THE GATE; AND 7.2. THE GATE AND BARRIER SHALL HAVE NO OPENING LARGER THAN 1/2 INCH (13 MM) WITHIN 18 INCHES (457 MM) OF THE RELEASE MECHANISM.
- WHERE A WALL OF A DWELLING SERVES AS PART OF THE BARRIER, ONE OF THE FOLLOWING CONDITIONS SHALL BE MET: 8.1. IN LIEU OF THE BARRIER BETWEEN THE DWELLING AND THE SWIMMING POOL, THE SWIMMING POOL SHALL BE EQUIPPED WITH A POWERED SAFETY COVER IN COMPLIANCE WITH ASTM F1346; OR 8.2. DOORS WITH DIRECT ACCESS TO THE POOL THROUGH THAT WALL SHALL BE EQUIPPED WITH AN ALARM WHICH PRODUCES AN AUDIBLE WARNING WHEN THE DOOR AND/OR ITS SCREEN, IF PRESENT, ARE OPENED. THE ALARM SHALL BE LISTED IN ACCORDANCE WITH UL 2017. THE AUDIBLE ALARM SHALL ACTIVATE WITHIN 7 SECONDS AND SOUND CONTINUOUSLY FOR A MINIMUM OF 30 SECONDS AFTER THE DOOR AND/OR ITS SCREEN, IF PRESENT, ARE OPENED AND BE CAPABLE OF BEING HEARD THROUGHOUT THE HOUSE DURING NORMAL HOUSEHOLD ACTIVITIES. THE ALARM SHALL AUTOMATICALLY RESET UNDER ALL CONDITIONS. THE ALARM SYSTEM SHALL BE EQUIPPED WITH A MANUAL MEANS, SUCH AS TOUCH PAD OR SWITCH, TO TEMPORARILY DEACTIVATE THE ALARM FOR A SINGLE OPENING. DEACTIVATION SHALL LAST FOR NOT MORE THAN 15 SECONDS. THE DEACTIVATION SWITCH(ES) SHALL BE LOCATED AT LEAST 54 INCHES (1372 MM) ABOVE THE THRESHOLD OF THE DOOR 8.3. OTHER MEANS OF PROTECTION, SUCH AS SELF-CLOSING DOORS WITH SELF-LATCHING DEVICES. WHICH ARE APPROVED BY THE GOVERNING BODY, SHALL BE ACCEPTABLE SO LONG AS THE DEGREE OF PROTECTION AFFORDED IS NOT LESS THAN THE PROTECTION AFFORDED BY ITEM 8.1 OR 8.2 DESCRIBED ABOVE. SELF-CLOSING AND SELF LATCHING DEVICES SHALL BE INSTALLED ON ALL DOORS WITH DIRECT ACCESS TO THE POOL AREA, WITH THE RELEASE MECHANISM LOCATED A MINIMUM OF FIFTY-FOUR INCHES ABOVE THE FLOOR.
- WHERE AN ABOVE-GROUND POOL STRUCTURE IS USED AS A BARRIER OR WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, AND THE MEANS OF ACCESS IS A LADDER OR STEPS: 9.1. THE LADDER OR STEPS SHALL BE CAPABLE OF BEING SECURED, LOCKED OR REMOVED TO PREVENT ACCESS: OR 9.2. THE LADDER OR STEPS SHALL BE SURROUNDED BY A BARRIER WHICH MEETS THE REQUIREMENTS OF THIS SECTION, ITEMS 1 THROUGH 9. WHEN THE LADDER OR STEPS ARE SECURED, LOCKED OR REMOVED, ANY OPENING CREATED SHALL NOT ALLOW THE PASSAGE OF A 4 INCH DIAMETER (102 MM) SPHERE.
- ). PET DOORS WHICH PROVIDE DIRECT ACCESS TO THE POOL AREA ARE PROHIBITED UNLESS THEY MEET THE REQUIREMENTS OF ITEM 2 OR ARE EQUIPPED WITH AN ALARM THAT MEETS ITEM 8.2.
- . WINDOWS WITH ACCESS TO THE POOL AREAS WILL BE PROTECTED IN THE FOLLOWING WAYS: 11.1 EMERGENCY ESCAPE OR RESCUE WINDOWS FROM SLEEPING AREAS WITH ACCESS TO THE SWIMMING POOL WILL BE EQUIPPED WITH A LATCHING DEVICE NOT LESS THAN 54 INCHES (1372 MM) ABOVE THE FLOOR. 11.2 ALL OTHER OPENABLE WINDOWS WITH SIMILAR ACCESS WILL ALSO BE EQUIPPED WITH A LATCHING DEVICE NOT LESS THAN 54 INCHES (1372 MM) ABOVE THE FLOOR OR SHALL BE EQUIPPED WITH KEY LOCK DEVICE THAT PREVENTS OPENING THE WINDOW MORE THAN 4 INCHES (102 MM). WALLS SURROUNDING AN INDOOR SWIMMING POOL SHALL COMPLY WITH ITEM 8. BARRIERS SHALL BE LOCATED TO PROHIBIT PERMANENT STRUCTURES, EQUIPMENT OR SIMILAR OBJECTS

FROM BEING USED TO CLIMB THEM. SPAS OR HOT TUBS WITH A SAFETY COVER WHICH COMPLIES WITH ASTM F 1346 SHALL BE EXEMPT FROM THE PROVISIONS OF THIS SECTION.

## JACUZZI TYPE TUB

01. PROVIDE REMOVABLE PANEL OF SUFFICIENT SIZE TO ACCESS PUMP. 02. CIRCULATION PUMP SHALL BE LOCATED ABOVE THE CROWN WEIR OF THE TRAP. 03. PUMP AND CIRCULATION PIPING SHALL BE SELF-DRAINING. 04. SUCTION FITTINGS SHALL COMPLY WITH THE LISTED STANDARDS. 05. PROVIDE G.F.I. CIRCUIT (N.E.C. ARTICLE 680-70).

### 2015 INTERNATIONAL RESIDENTIAL CODE (ORD. #4060) 2015 INTERNATIONAL FIRE CODE (ORD. #4045) 2015 INTERNATIONAL PLUMBING CODE (ORD. #4061) 2015 INTERNATIONAL MECHANICAL CODE (ORD. #4062) 2014 NATIONAL ELECTRICAL CODE (ORD. #4064) 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2015 INTERNATIONAL FUEL GAS CODE CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA - TABLE R301.2 (1) AMENDED SEISMIC DESIGN SUBJEC ROOF SNOW WIND CATEGORY <sup>f,g</sup> 115 EXPOSURE STARTING WORK. CLARIFICATION OR REVISIONS PRIOR TO COMMENCING WITH WORK. ALL CHIMNEYS SHALL HAVE APPROVED SPARK ARRESTORS. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN ARIZONA. FINISH FLOOR ELEVATION (AS BUILT) SHALL BE CERTIFIED BY THE CITY FOR THE FEDERAL EMERGENCY MANAGEMENT ASSOCIATION WHERE REQUIRED. OPTIONS ARE FOR THE CONTRACTORS CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND SHALL COORDINATE ALL DETAILS. THE COST OF CONTRACTOR INCURRED BY THE CONTRACTOR. DETAILS ON THE STRUCTURAL DRAWINGS ARE TYPICAL. VERIFY ALL DIMENSIONS WITH THE DESIGNER'S

01. PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEM PER 2015 IFC SEC. 903 02. A 1" WATER METER IS ADEQUATE FOR THE RESIDENTIAL FIRE SPRINKLER SYSTEM. 03. A "CONCEALED" FIRE SPRINKLER TO BE SPECIFIED, VERIFY WITH OWNER. 04. DEFERRED SUBMITTAL

## **REQUIRED RESIDENTIAL NOTES**

- 01. ALL PRODUCTS LISTED BY I.C.C./N.E.R. NUMBER(S) SHALL BE INSTALLED PER THE REPORT AND ALSO HAVE AN ICC APPROVED EVALUATION REPORT(S) OR BE APPROVED. 02. EXTERIOR WALL, BOTTOM SILL PLATES, SHALL BE PRESSURE TREATED OR EQUAL, AND SHALL BEAR/EXTEND MINIMUM 6" ABOVE FINISH GRADE. (2015 IRC SEC. R317.1) 03. MISCELLANEOUS SITE STRUCTURES, POOLS, SPAS, FENCES, SITE WALLS, RETAINING WALLS, AND GAS STORAGE TANKS REQUIRE SEPARATE PERMITS. SHEATHING FOR CONDITIONED AREAS ONLY. 08. ENERGY CONSERVATION REQUIREMENTS: CEILING/ATTIC R-VALUE = R-38 (MIN.). FRAME WALL R-VALUE = COEFFICIENT = 0.25 (MAX.), SUPPLY AND RETURN AIR DUCT INSULATION VALUE OF R-8(MIN.) 09. LUMBER SHALL BEAR AN APPROVED GRADING STAMP. (R502.1) BY THE TOWN OF PARADISE VALLEY 1. FIRE BLOCKING SHALL COMPLY WITH (2015 IRC R302.11) R702.3.5 (d) THE PRESSURE BALANCE OR THERMOSTATIC MIXING VALVE TYPE (P2708.3) MANUFACTURER'S RECOMMENDATIONS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS (R702.3.4) GAL/MINUTE PROVIDE AERATOR. 7. WATER TREATMENT SYSTEMS - SHALL BE EQUIPPED WITH AND AUTOMATIC SHUTOFF TO PREVENT CONTINUOUS FLOW WHEN NOT IN USE. INSTALLED AS HIGH AS POSSIBLE (P2717.3) 9. HOT WATER RECIRCULATION PUMPS. PROVIDE A HOT WATER DEMAND CONTROLLED RECIRCULATION PUMP FOR WATER HEATERS LOCATED MORE THAN 20 FEET FROM FURTHEST FIXTURE SERVED. A MANUAL CONTROL OR OCCUPANT SENSOR SWITCH SHALL OPERATE THE PUMP WITH AN AUTOMATIC TEMPERATURE SENSOR SHUT-OFF (M2005.5 AMENDED) INSULATED TO A MINIMUM R-6 (N1103.2.1) DUCTWORK THEY SERVE. PROVIDED (M1501.3) CRAWL SPACE OR OTHER AREAS INSIDE THE BUILDING, M1506.2 24. PROVIDE IC-RATED RECESSED LIGHT FIXTURES INSTALLED IN INSULATED CEILINGS (N1102.4.3) (E3903.8) (E3802.7) (E3802.1, .2) POWDER ROOM LAVATORY (E3901.6) AREAS SHALL BE PROTECTED BY A COMBINATION TYPE AFCI (E3802.11) ANY WALL SPACE 2 FEET OR MORE IN WIDTH (E3502.2
- KITCHEN/DINING/BREAKFAST. (E3603.3) FOR GAS-FIRED RANGES, OVENS OR COUNTER MOUNTED UNITS. (E3603.2
- 34. PROVIDE A CONCRETE ENCASED GROUNDING ELECTRODE OF NOT LESS THAN 20 FEET OF #4 BARE COPPER (200 AMPERE SERVICE) (E3508.1, .2)
- SERVICE (E3503.1)
- BONDED (E4104.2, .4) SPECIFIED DIMENSIONS:
- 1. BED JOINT + 1/8 INCH 2. HEAD JOINT: 1/4 INCH + 3/8 INCH 3. COLLAR JOINTS: 1/4 INCH +3/8 INCH ELEVATION NO HIGHER THAN THE FIREBOX. (R1006.1)

## **GENERAL NOTES**

BUILDING CODE DESIGN DATA - ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND AMMENDMENTS PER THEIR ADOPTING ORDINANCES:

- 2015 INTERNATIONAL BUILDING CODE (ORD. #4059)

тт	O DAMAGE	FROM		WINTER DESIGN TEMP. <sup>f</sup>	FLOOD HAZARDS
	FROST LINE DEPTH <sup>b</sup>	TERMITE °	DECAY d		
_E	FINAL GRADE		NONE TO SLIGHT	34 DEGREES	

DRAWINGS MAY NOT BE SCALED. ALL DIMENSIONS RELATED TO DETAILS NOT SPECIFICALLY SHOWN, SHALL BE OF THE SAME NATURE AS OTHER SIMILAR CONDITIONS. VERIFY ALL DIMENSIONS PRIOR TO

THE CONTRACTOR SHALL NOTIFY DREWETT WORKS OF ANY DISCREPANCIES ON DRAWINGS. REQUIRING

ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION SHALL BE BORNE BY THE

THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION SHALL BE

DRAWINGS. NO STRUCTURAL CHANGES FROM THE APPROVED PLANS SHALL BE MADE IN THE FIELD, UNLESS PRIOR TO MAKING CHANGES, WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. IF CHANGES ARE MADE WITHOUT APPROVAL, SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR INVOLVED AND IT SHALL BE THEIR RESPONSIBILITY TO REPLACE OR REPAIR PER ENGINEER.

## FIRE SPRINKLERS

MANUFACTURER'S WRITTEN INSTRUCTIONS. PRODUCTS SUBSTITUTIONS FOR PRODUCT(S) LISTED SHALL

04. ALL EXITS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE 05. DOORS LEADING INTO HOUSE FROM GARAGE SHALL BE SELF-CLOSING, SELF-LATCHING. (2015 IRC R302.5.1) 06. EXTERIOR WALL PENETRATIONS BY PIPES, DUCTS OR CONDUITS SHALL BE CAULKED. (2015 IRC R302.4.1) 07. PROVIDE ROOF ATTIC VENTILATION UNLESS INSULATION IS APPLIED DIRECTLY TO UNDERSIDE OF ROOF

R-19 (MIN.), MASONRY WALL R-VALUE = R-4 (MIN.), WINDOW U-VALUE = 0.40 (MAX.), SOLAR HEAT GAIN 10. PROVIDE ENGINEERED TRUSS DESIGNS FOR ALL PREFABRICATED TRUSSES FOR REVIEW AND APPROVAL

12. WINDOWS LOCATED MORE THAN 72" ABOVE FINISHED GRADE SHALL HAVE THE LOWEST PART OF CLEAR OPENING OF THE WINDOW TO BE MINIMUM 24 INCHES ABOVE THE FLOOR IN WHICH IT SERVES (R613.2) 3. GYPSUM BOARD APPLIED TO A CEILING SHALL BE 1/2" WHEN FRAMING MEMBERS ARE 16" O.C. OR 5/8" WHEN FRAMING MEMBERS 24" O.C. OR USE LABELED 1/2" SAG-RESISTANT GYPSUM CEILING BOARD. TABLE

14. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF 5. SHOWER AREA WALLS SHALL BE FINISHED WITH A SMOOTH, HARD NON-ABSORBENT SURFACE, SUCH AS CERAMIC TILE, TO A HEIGHT OF NOT LESS THAN 72 INCHES ABOVE THE DRAIN INLET. WATER-RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CEMENT, FIBER-CEMENT OR GLASS MAT GYPSUM BACKERS INSTALLED WITH

3. PLUMBING FIXTURES SHALL COMPLY WITH THE FOLLOWING CONSERVATION REQUIREMENTS: TABLE P2903.2 WATER CLOSETS- TANK TYPE 1.6 GAL/FLUSH. SHOWER HEAD - 2.5 GAL/MINUTE. FAUCETS - 2.2

18. DOMESTIC DISH WASHING MACHINES CONNECTED TO A DISPOSER SHALL HAVE THE DISCHARGE

20. SUPPLY AND RETURN DUCTS SHALL BE INSULATED TO A MINIMUM R-8. DUCTS IN FLOOR TRUSSES SHALL BE

I. REGISTERS, DIFFUSERS AND GRILLES SHALL BE MECHANICALLY FASTENED TO RIGID SUPPORTS OR STRUCTURAL MEMBERS ON AT LEAST TWO OPPOSITE SIDES IN ADDITION TO BEING CONNECTED TO THE 2. THE CLOTHES DRYER SHALL BE PROVIDED WITH A 4-INCH DIAMETER EXHAUST DUCT TO THE EXTERIOR AND SHALL NOT EXCEED A TOTAL LENGTH OF 35 FEET, UNLESS AN ENGINEERED DUCT SYSTEM IS

3. EXHAUST AIR FROM KITCHENS, BATHROOMS AND TOILET ROOMS SHALL NOT BE RE-CIRCULATED WITHIN A RESIDENCE OR TO ANOTHER DWELLING UNIT AND SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST AIR FROM KITCHENS, BATHROOMS AND TOILET ROOMS SHALL NOT DISCHARGE INTO AN ATTIC, 25. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE "LISTED" TO BE SUITABLE FOR SUCH LOCATION.

26. PROVIDÉ GFCI PROTECTION FOR RECEPTACLES WITHIN 6' OF ALL LAVATORIES, SINKS AND BASINS. 27. PROVIDE GFCI PROTECTED RECEPTACLES AT AL EXTERIOR, BATHROOM AND GARAGE LOCATIONS.

28. PROVIDE A WALL MOUNTED GFCI PROTECTED RECEPTACLE OUTLET WITHIN 36" OF A BATHROOM OR 29. ALL 120-VOLT BRANCH CIRCUITS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS. BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOMS OR 30. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE, INCLUDING . PROVIDE A MINIMUM OF TWO 20-AMP SMALL APPLIANCE BRANCH CIRCUITS FOR THE

32. THE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS SHALL HAVE NO OTHER OUTLETS, EXCEPT THE RECEPTACLE INSTALLED SOLELY FOR ELECTRIC SUPPLY TO AN ELECTRICAL CLOCK IN THE KITCHEN/DINING/BREAKFAST AREAS OR RECEPTACLES FOR SUPPLEMENTAL EQUIPMENT AND LIGHTING 3. RECEPTACLE OUTLETS FOR RANGES AND CLOTHES DRYERS SHALL BE 3-POLE WITH GROUND TYPE. FOUR-WIRE, GROUNDING -TYPE FLEXIBLE CORDS WILL BE REQUIRED FOR CONNECTION OF RANGES AND CLOTHES DRYERS, THE BONDING, JUMPER SHALL NOT BE CONNECTED BETWEEN THE NEUTRAL TERMINAL AND THE FRAME OF THE APPLIANCE. FLEXIBLE CORDS SHALL BE USED ONLY WHERE THE FLEXIBLE CORD SUPPLYING AN APPLIANCE SHALL TERMINATE IN A GROUNDING-TYPE ATTACHMENT PLUG. (E4001.3)

35. PROVIDE BONDING TO THE WATER PIPING, GAS AND METAL BUILDING SYSTEMS. (MINIMUM #4 FOR 200-AMP 36. ALL METAL PIPING SYSTEMS, METAL PARTS OF ELECTRICAL EQUIPMENT, AND PUMP MOTORS ASSOCIATED WITH THE HYDRO MASSAGE TUB SHALL BE BONDED TOGETHER USING A COPPER BONDING JUMPER. INSULATED, COVERED, OR BARE, NOT SMALLER THAN NO. 8 SOLID. METAL PARTS OF LISTED EQUIPMENT INCORPORATING AN APPROVED SYSTEM OF DOUBLE INSULATION AND PROVIDING A MEANS FOR GROUNDING INTERNAL NON-ACCESSIBLE, NON-CURRENT- CARRYING METAL PARTS SHALL NOT BE

. R607.2.1 MASONRY BED AND HEAD JOINTS...SHALL BE 3/8" THICK, THE THICKNESS OF THE BED JOINT OF THE STARTING COURSE PLACED OVER FOUNDATIONS SHALL NOT BE LESS THAN 1/4" INCH AND NOT MORE THAN 3/4 INCH. MORTAR JOINT THICKNESS SHALL BE WITHIN THE FOLLOWING TOLERANCES FROM THE

3. PROVIDE COMBUSTION AIR TO ALL FIREPLACES IN ALL LOCATIONS WITH AIR INTAKE LOCATED AT AN



## SQUARE FOOTAGES

LOWER LEVEL LIVABLE	1891 SI
MAIN LEVEL LIVABLE	3611 SI
	5502 SI
GARAGE/MECH	1469 SI
GARAGE/MECH	102 SI
	1571 SI
LOWER LEVEL COV'D PATIO	164 SI
MAIN LEVEL COV'D PATIO 1	802 SI
MAIN LEVEL COVID PATIO 2	59 SI
MAIN LEVEL COV'D PATIO 3	116 SI
	110 SI 1141 SI
	-
LOWER LEVEL OVERHANG	632 SI
LOWER LEVEL OVERHANG	141 SI
LOWER LEVEL OVERHANG	63 SI
MAIN LEVEL OVERHANG	365 SI
MAIN LEVEL OVERHANG	374 SI
MAIN LEVEL OVERHANG	71 SI
	1647 SI
TOTAL	9860 SI
DISTURBED AREA	

### CALCULATIONS AREA OF LOT: 1.036 ACRES = 45,124 SF AREA UNDER ROOF: 8 012 SF

AREA BIDER ROOT.	0,012 01
FLOOR AREA RATIO:	17.8%<25%
ALLOWABLE DISTURBED AREA:	10.16% = 4,585 SF
EXISTING DISTURBED AREA:	0% = 0 SF
NET PROPOSED DISTURBED AREA:	9.54% = 4,304 SF
PERCENT OF LOT STEEPER THAN NATURAL GRADE:	5%
VOLUME OF CUT: VOLUME OF FILL:	2,510 C.Y. 113 C.Y.

# VICINITY MAP E Rd Runner P E Roadrunner Rd -PROJECT LOCATION earwater Pkwy E Clearwater Pkwy

## PERSPECTIVE VIEW

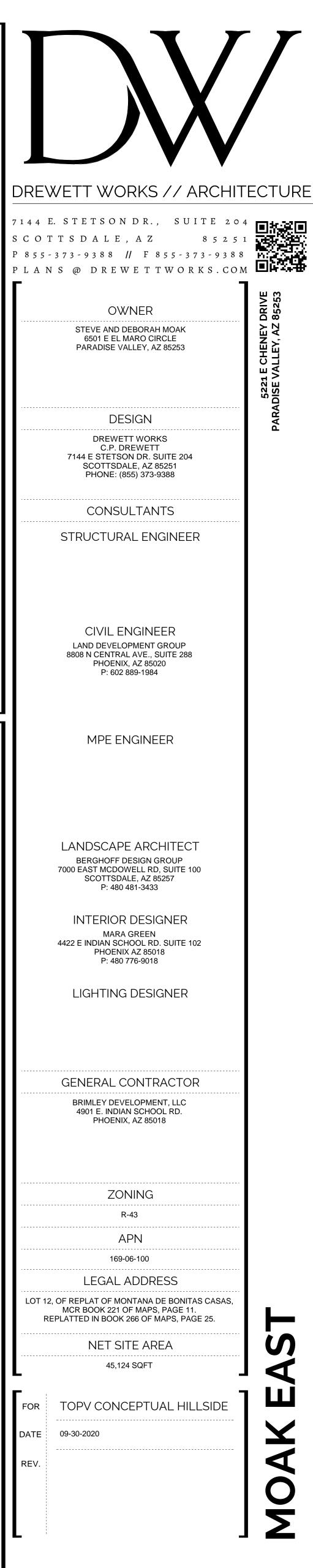
RENDERING REPRESENTS AN ARCHITECTURAL CONCEPT AND IS INTENDED AS AN ILLUSTRATIVE EXAMPLE ONLY. FINAL DESIGN, CONSTRUCTION AND MATERIALS, INCLUDING LANDSCAPE, MAY VARY

## SHEET INDEX

DRB200 COVER SHEET DRB201 SITE PLAN DRB202 SITE CONTEXT DRB203 DRB FLOOR PLANS DRB204 DRB BUILDING ELEVATIONS DRB205 3D MASSING

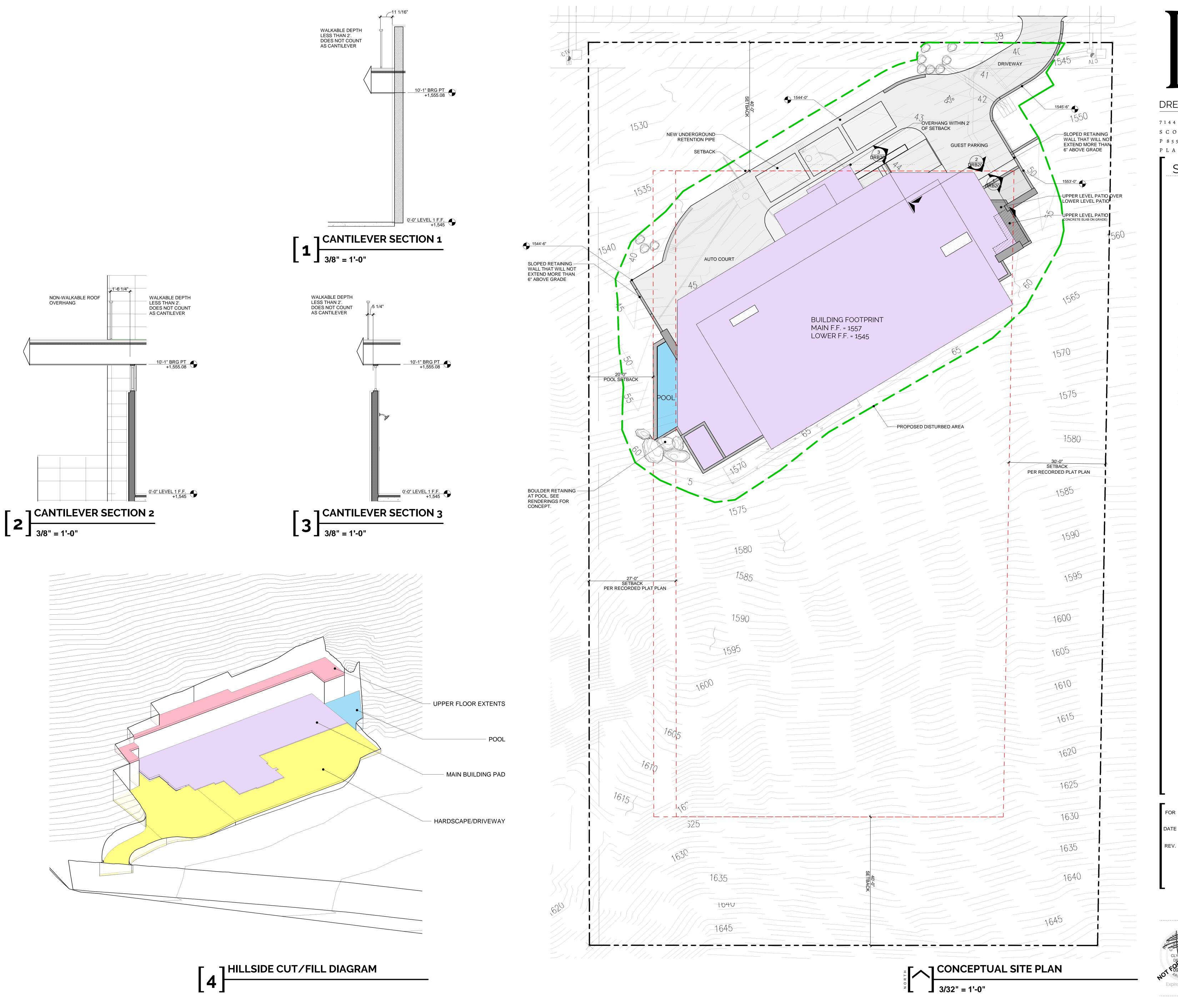


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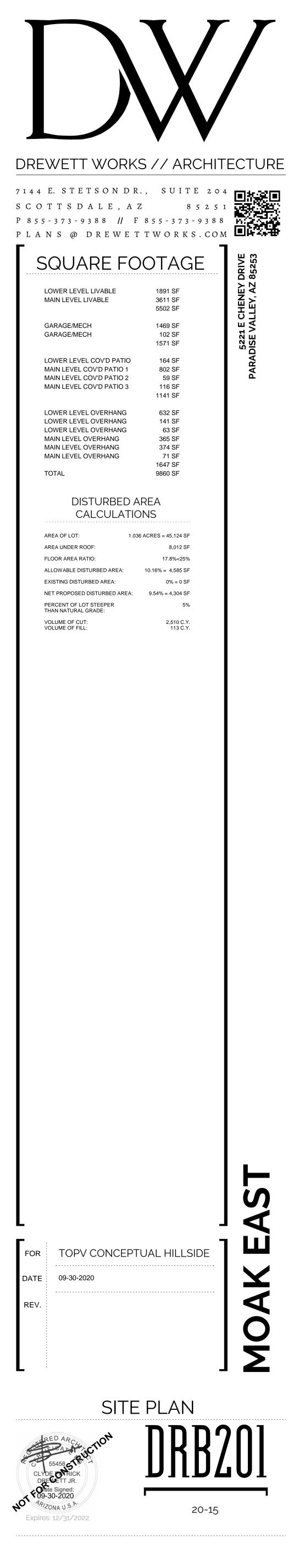


COVER SHEET 20-15

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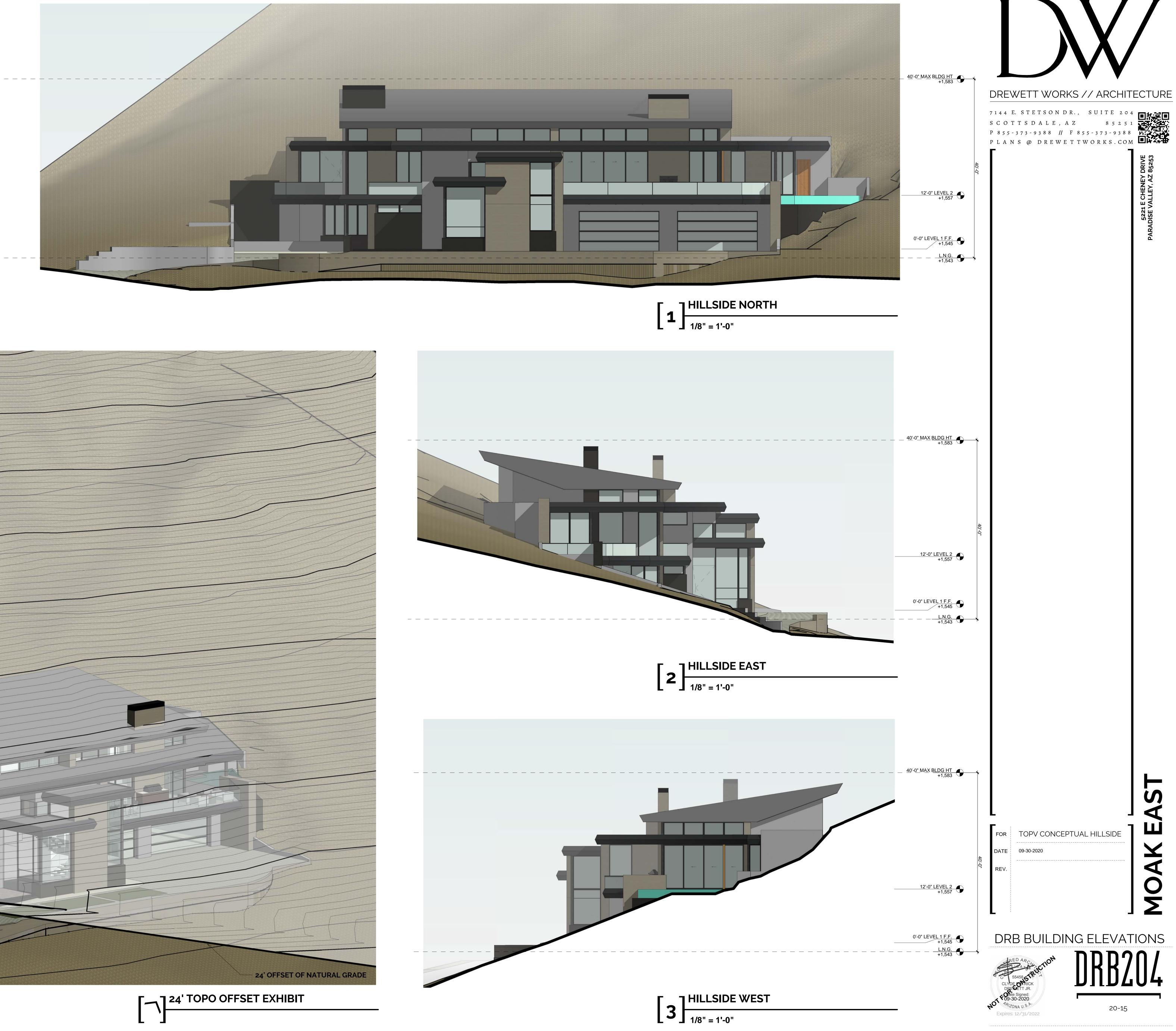
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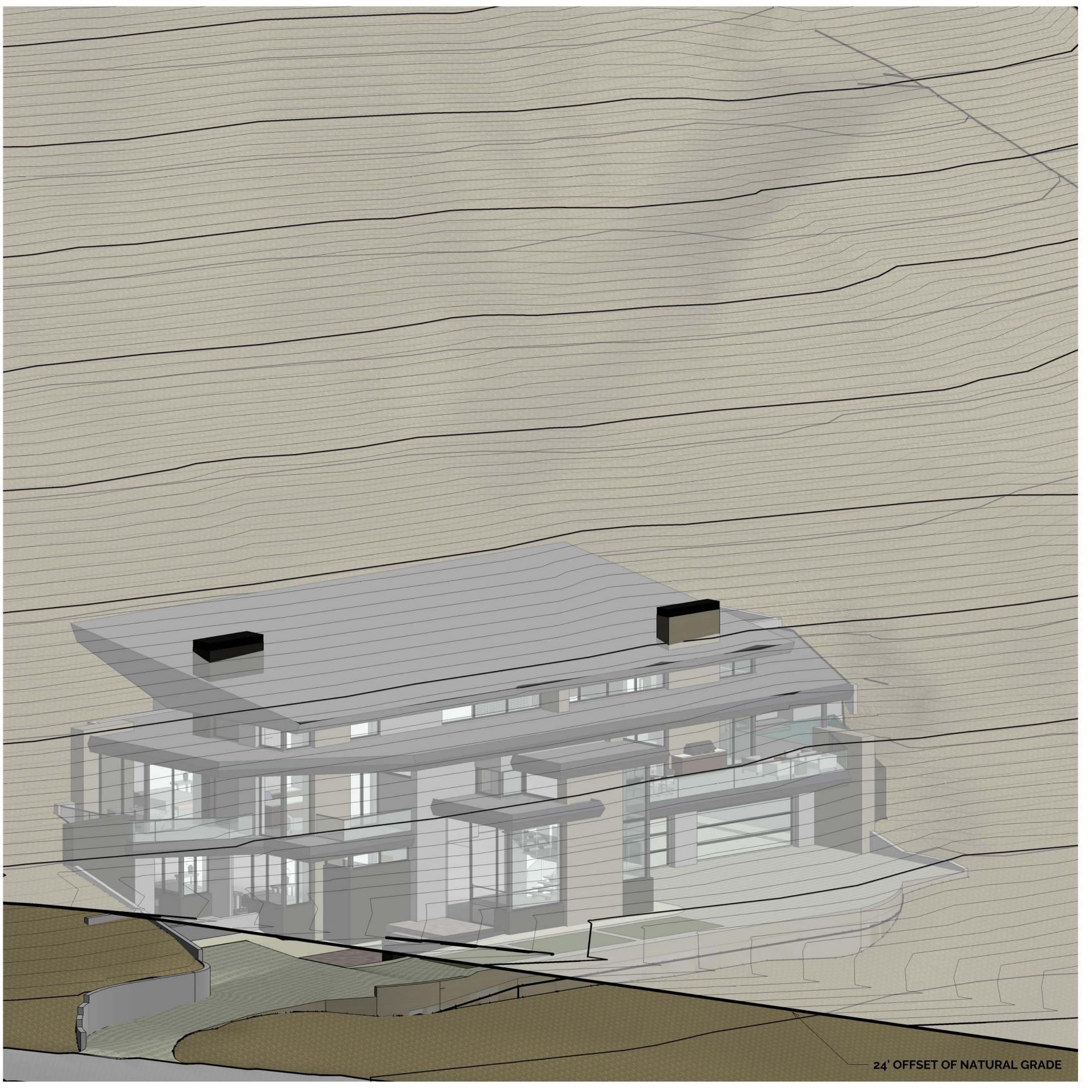


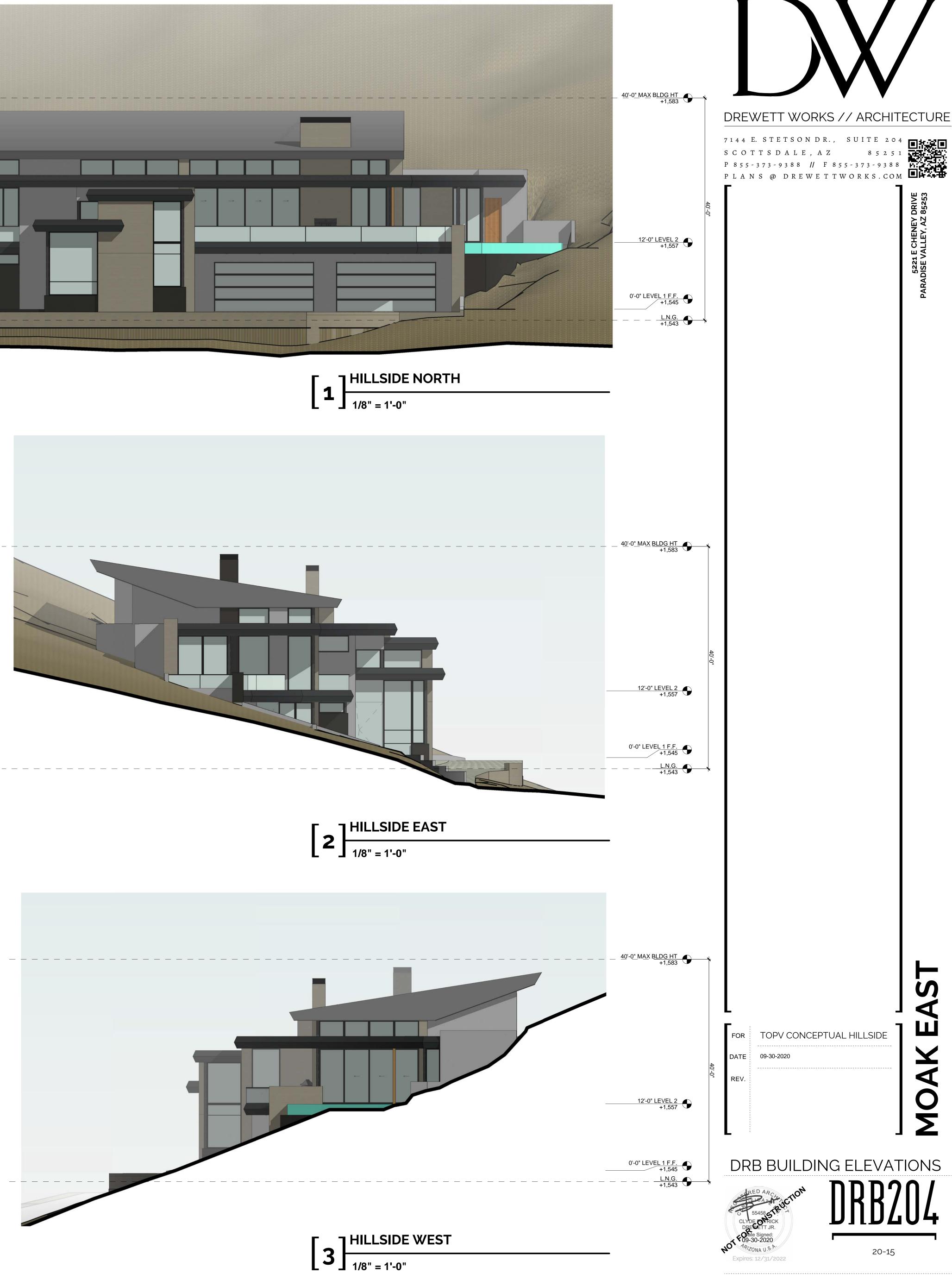
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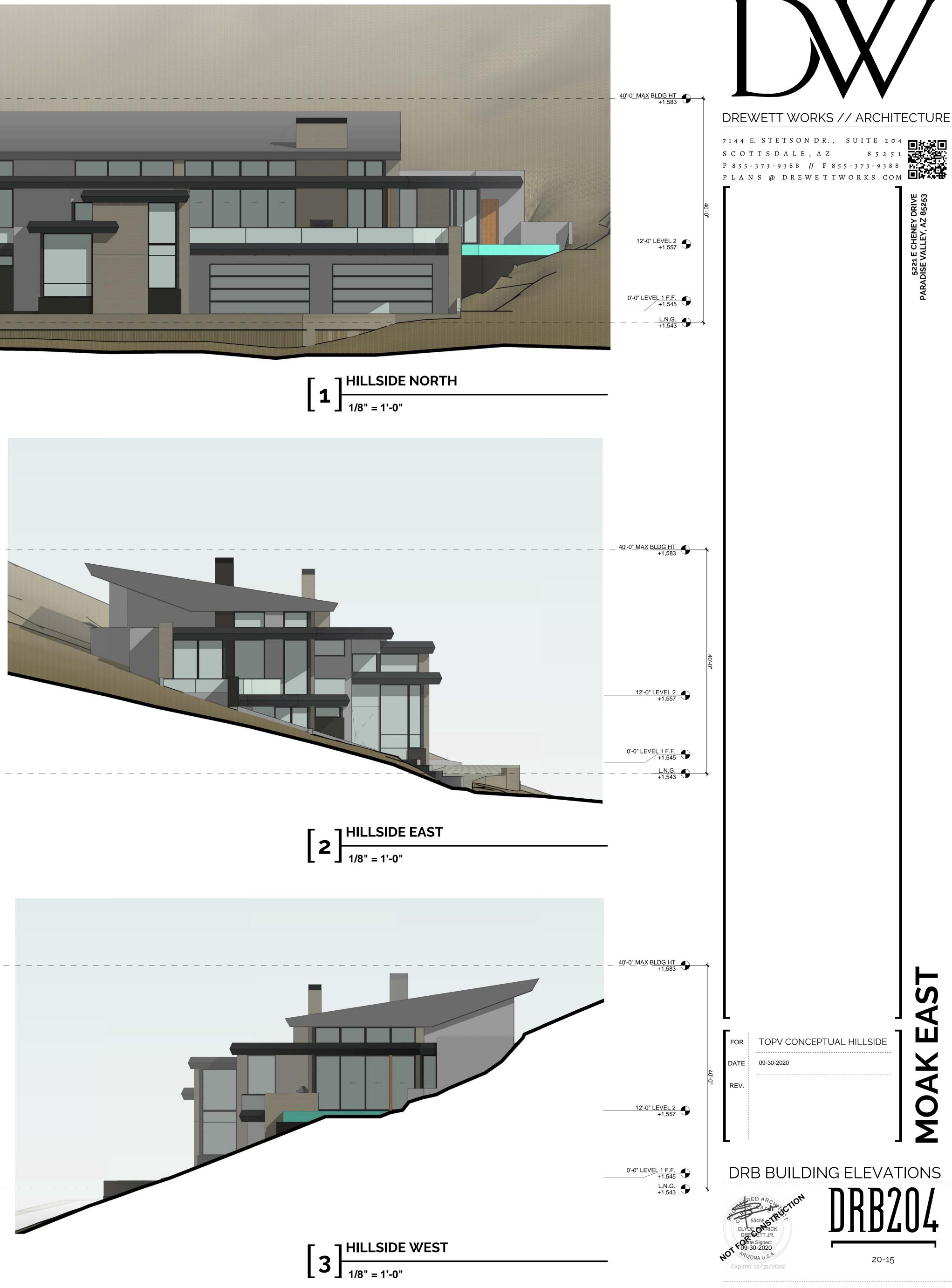


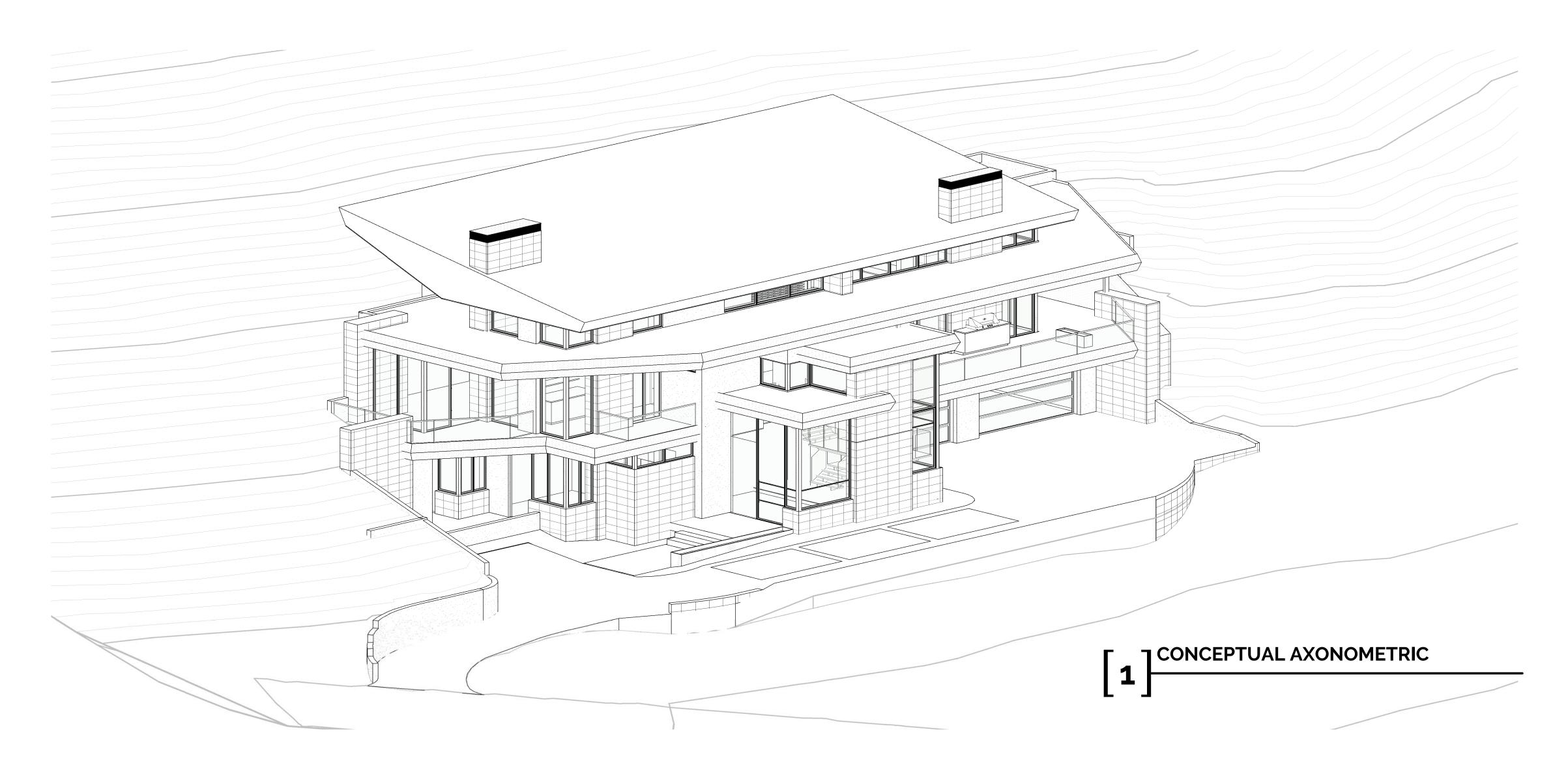
















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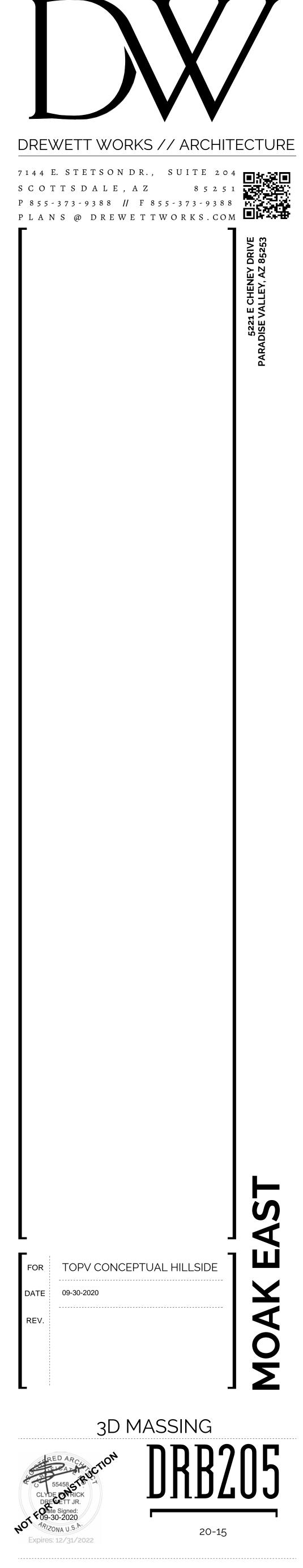






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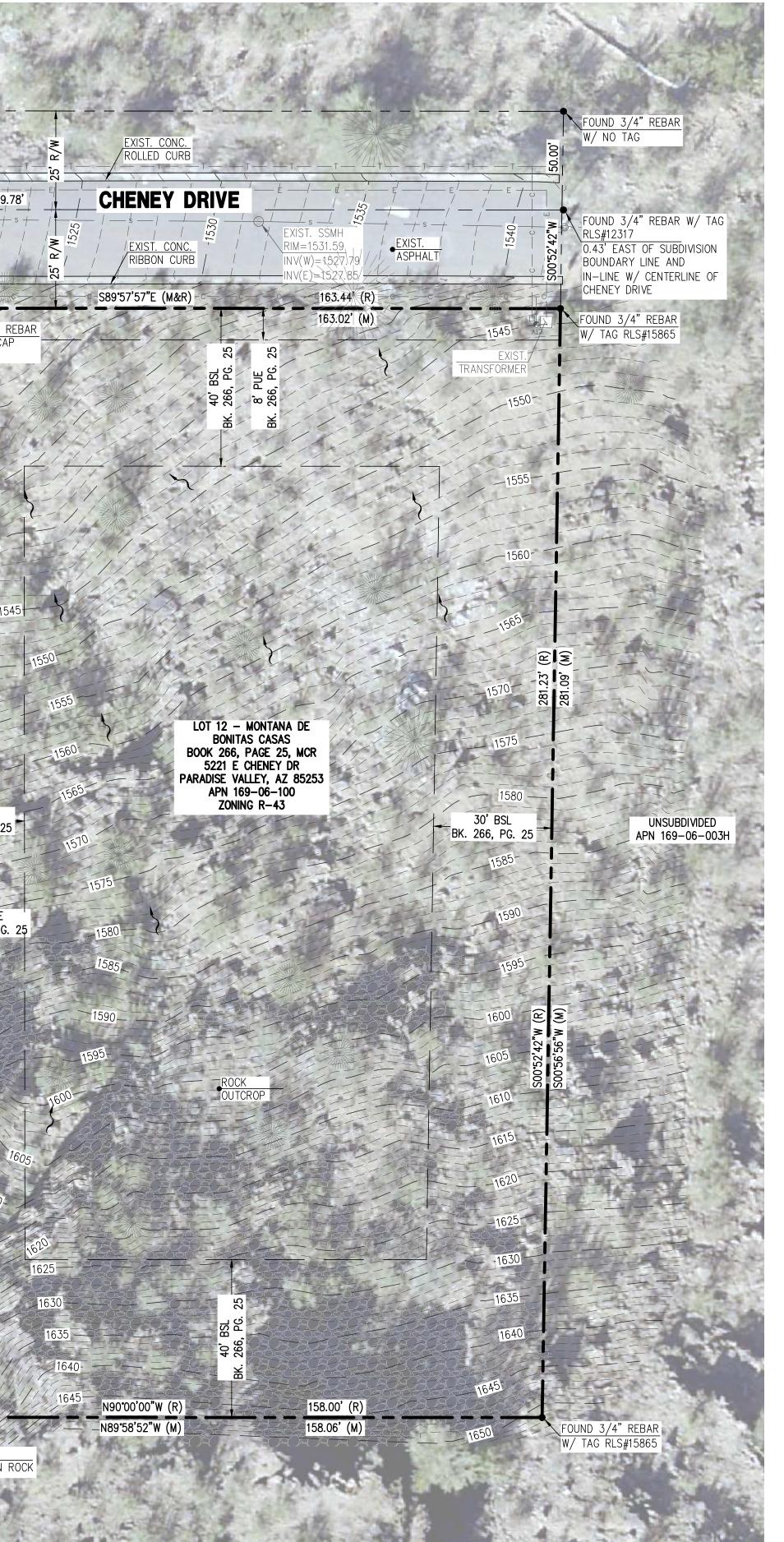
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	SECTION CORNER	FOUND OR SET	
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	-		LOT 11 - MONTANA DE PONITAS CASAS
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			281.29 <sup>'</sup> 281.09 <sup>'</sup>
ABBF	REVIATIONS		
BC	BACK OF CURB		
BSL C11	BUILDING SETBACK LINE CURVE LABEL		
Ę	CENTERLINE		
DE EG	DRAINAGE EASEMENT EXISTING GRADE		ROCK OUTCROP
EL, ELEV EP	ELEVATION EDGE OF PAVEMENT		
ESMT	EASEMENT		1610-
EX, EXIST. FG	FINISH GRADE		1615
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P, PVMT PUE	PAVEMENT PUBLIC UTILITY EASEMENT		1620
(R), REC. R	RECORDED RADIUS		
R/W T	RIGHT OF WAY		
TC	TANGENT, TELEPHONE TOP OF CURB	20' 10' 0 20'	FOUND 'X'
TG TPV	TOP OF GRATE TOWN OF PARADISE VALLEY	SCALE 1" = 20'	SCRIBED ON
TRW W	TOP OF RETAINING WALL WEST, WATERLINE		
WDO	WALL DRAINAGE OPENING		And the second

WM

WATER METER

## **BOUNDARY & TOPOGRAPHIC SURVEY** 5221 E CHENEY DR., PARADISE VALLEY, AZ 85253 LOT 12 - MONTANA DE BONITAS CASAS

A SUBDIVISION PLAT RECORDED IN BOOK 266 OF MAPS, PAGE 25, MCR., LOCATED IN A PORTION OF THE NW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF SECTION 5, T.2N, R.4E OF THE GILA & SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



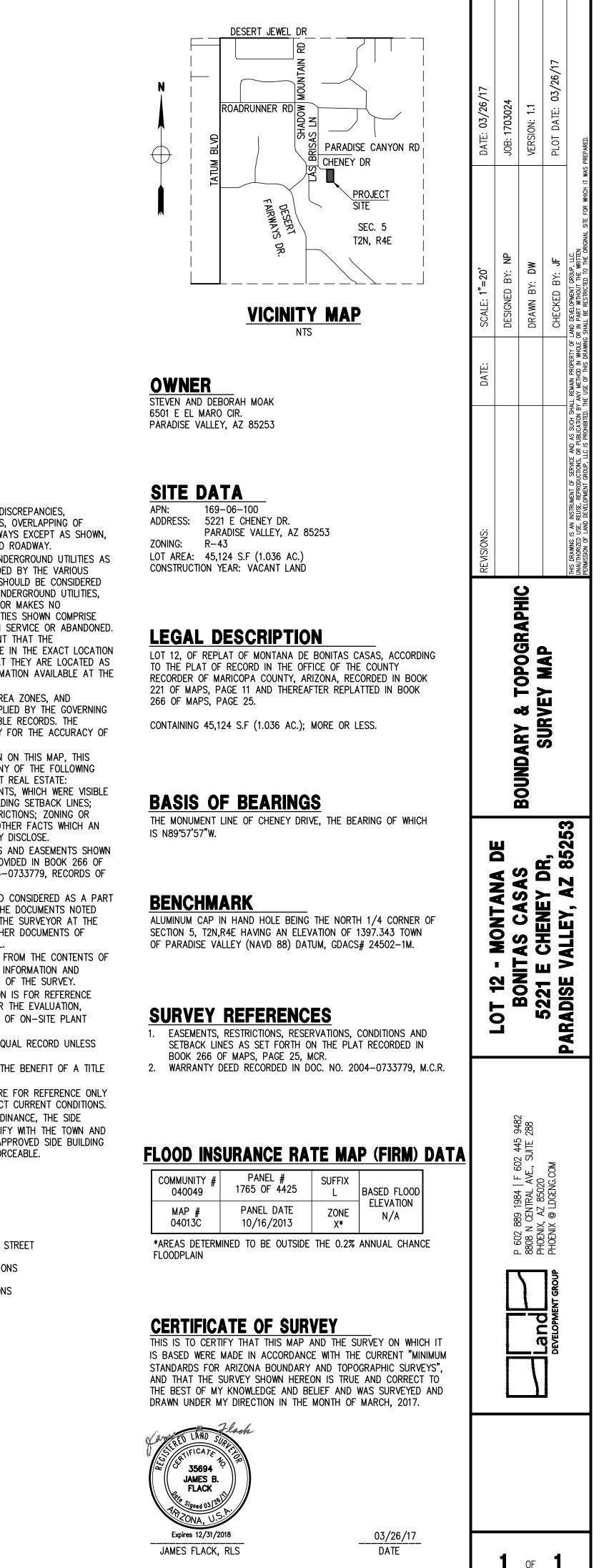
## **GENERAL NOTES**

- TIME OF THE SURVEY.

- MATERIALS. NOTED OTHERWISE.
- REPORT.

## UTILITIES

WATER: EPCOR WATER



THE PREMISES SURVEYED HAVE NO KNOWN DISCREPANCIES, BOUNDARY LINE CONFLICTS, ENCROACHMENTS, OVERLAPPING OF IMPROVEMENTS, EASEMENTS OR RIGHT-OF-WAYS EXCEPT AS SHOWN, AND HAS ACCESS TO OR FROM A DEDICATED ROADWAY

GROUND SURVEY. THE UNDERGROUND UTILITIES E BASED ON INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES AND THESE LOCATIONS SHOULD BE CONSIDERED THERE MAY BE ADDITIONAL UNDERGROUND UTILITIES. ON THIS DRAWING. THE SURVEYOR MAKES NO

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 HEREON ARE IN THE EXACT LOCATION

INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE AT THE BUILDING SETBACK LINES, ZONING, FLOOD AREA ZONES, AND

ADDRESSES THAT MAY BE SHOWN ARE SUPPLIED BY THE GOVERNING AGENCY OR TAKEN FROM THE BEST AVAILABLE RECORDS. THE SURVEYOR WILL NOT ACCEPT RESPONSIBILITY FOR THE ACCURACY OF ANY INFORMATION SUPPLIED BY OTHERS.

EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS MAP. THIS SURVEY DOES NOT PURPORT TO REFLECT ANY OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT REAL ESTATE: EASEMENTS, OTHER THAT POSSIBLE EASEMENTS, WHICH WERE VISIBLE AT THE TIME OF MAKING THIS SURVEY: BUILDING SETBACK LINES; ESTRICTIVE COVENANTS: SUBDIVISION RESTRICTIONS: ZONING OR OTHER LAND USE REGULATIONS, AND ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

5. THE DESCRIPTION OF PROPERTY BOUNDARIES AND EASEMENTS SHOWN HEREON, REPRESENT THAT INFORMATION PROVIDED IN BOOK 266 OF MAPS, PAGE 25, AND DEED REC. DOC. 2004-0733779, RECORDS OF MARICOPA COUNTY, ARIZONA.

6. EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON. ONLY THE DOCUMENTS NOTED HEREON WERE SUPPLIED OR AVAILABLE TO THE SURVEYOR AT THE TIME OF THE SURVEY. THERE MAY EXIST OTHER DOCUMENTS OF RECORD, WHICH WOULD AFFECT THIS PARCEL.

7. ANY INFORMATION SHOWN WHICH MAY VARY FROM THE CONTENTS OF THE REPORT(S) NOTED ABOVE, REPRESENTS INFORMATION AND MEASUREMENTS FOUND DURING THE COURSE OF THE SURVEY. 8. ON-SITE PLANT INFORMATION SHOWN HEREON IS FOR REFERENCE ONLY. SURVEYOR ASSUMES NO LIABILITY FOR THE EVALUATION,

SALVAGEABILITY, REMOVAL AND/RELOCATION OF ON-SITE PLANT 9. ALL MEASURED BEARINGS AND DISTANCES EQUAL RECORD UNLESS

10. THE SURVEY MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE

11. ANY AERIAL MAPS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY DEPICT THE EXACT CURRENT CONDITIONS. 12. PER TOWN OF PARADISE VALLEY ZONING ORDINANCE, THE SIDE BUILDING SETBACK DISTANCES ARE 20'. VERIFY WITH THE TOWN AND ANY RECORDED CC&Rs IF THE ORIGINALLY APPROVED SIDE BUILDING SETBACKS ARE STILL APPLICABLE AND ENFORCEABLE.

SANITARY SEWER: CITY OF PHOENIX SEWER IN STREET ELECTRIC: ARIZONA PUBLIC SERVICE TELEPHONE: CENTURY LINK, COX COMMUNICATIONS NATURAL GAS: SOUTHWEST GAS CABLE TV: CENTURY LINK, COX COMMUNICATIONS

## TOWN OF PARADISE VALLEY NOTES

- GRADING SHALL BE IN CONFORMANCE WITH 2018 IBC.
- PRIOR TO FIRST FOOTING INSPECTION OF ANY TYPE, ALL PROPERTY PINS SHALL BE PLACED BY A REGISTERED LAND SURVEYOR OF THE STATE OF ARIZONA. AND PROPERTY LINES MUST BE PHYSICALLY IDENTIFIED PRIOR TO INSPECTION.
- 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.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) SPECIFICATIONS AND STANDARD DETAILS. ALL EXTERIOR SITE LIGHTING SHALL COMPLY WITH REQUIREMENTS OF SECTION 2208 OF THE TOWN OF
- PARADISE VALLEY ZONING ORDINANCES FOR FUTURE TYPE, LOCATION, HEIGHT, WATTAGE BASED UPON FIXTURES INSTALLED. A DUST CONTROL PLAN MEETING THE REQUIREMENTS OF RULE 310 OF THE MARICOPA COUNTY AIR
- POLLUTION CONTROL REGULATIONS. AS AMENDED, IS REQUIRED
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- 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. EAVE PROJECTIONS INTO REQUIRED SETBACKS ARE LIMITED TO A MAXIMUM OF 24" PURSUANT TO SECTION
- 1008 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCES. 0. ALL STRUCTURES AND LANDSCAPING WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL HAVE A 2 FOOT
- MAXIMUM HEIGHT. ALL NEW AND EXISTING ELECTRICAL SERVICE TO BE BURIED UNDERGROUND PER THE TOWN OF PARADISE VALLEY STANDARDS.
- 2. POOL, SPA, BARBECUE AND ANY PROPOSED STRUCTURES OVER 8 INCHES ABOVE GRADE REQUIRE
- SEPARATE PERMIT APPLICATIONS. 3. POOLS SHALL BE CONSTRUCTED BY SEPARATE PERMIT AND SECURED FROM UNWANTED ACCESS PER SECTION 5-2-2 OF THE TOWN OF PARADISE VALLEY ORDINANCES.
- 4. A SETBACK CERTIFICATION IS REQUIRED AND MUST BE GIVEN TO TOWN INSPECTOR AT STEM WALL INSPECTION.
- 5. MAIL BOX TO COMPLY WITH THE TOWN OF PARADISE VALLEY STANDARDS FOR MAIL BOXES IN THE R.O.W. FOR HEIGHT, WIDTH AND BREAK AWAY FEATURES. 6. ALL PATIOS, WALKS, AND DRIVES TO SLOPE AWAY FROM BUILDING AND GARAGES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS SPECIFIED OTHERWISE. ALL LAWN AREAS ADJOINING WALKS OR SLABS WILL BE
- GRADED TO 2" BELOW THE TOP OF SLAB. TYPICAL FINISHED GRADE AROUND PERIMETER OF BUILDING IS MINUS 6" BELOW FINISHED FLOOR UNLESS SPECIFIED OTHERWISE. . ALL MATERIAL TO BE UNDER SLABS AND WALKS SHALL BE COMPACTED TO NOT LESS THAN 95% PER ASTM 9. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS,
- D698. 18. SOILS COMPACTION TEST RESULTS MUST BE SUBMITTED TO THE TOWN ENGINEER'S OFFICE FOR BUILDING PADS THAT HAVE ONE 1) FOOT OR MORE OF FILL MATERIAL INDICATED. THIS INFORMATION MUST BE
- SUPPLIED PRIOR TO REQUEST FOR FINAL INSPECTION. 19. TRENCH BED SHALL BE FREE OF ROCKS AND DEBRIS. 20. REGULATION II RULE 20-3 OF THE MARICOPA COUNTY HEALTH DEPARTMENT, BUREAU OF AIR POLLUTION
- CONTROL SHALL BE OBSERVED AND ENFORCED. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- 22. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
- 23. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
- 24. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- THE TOWN ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE TOWN.
- 26. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS, THE PLANS MUST BE RESUBMITTED TO THE TOWN FOR RE-APPROVAL.
- 7. A PUBLIC WORKS INSPECTOR WILL INSPECT ALL WORKS WITHIN THE TOWN OF PARADISE VALLEY RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY INSPECTION SERVICES 24 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING 480- 312-5750.
- B. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 602–263–1100, TWO WORKING DAYS BEFORE EXCAVATION BEGINS. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT. CALL "COLLECT" IF NECESSARY.
- 29. ENCROACHMENT PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. AN ENCROACHMENT PERMIT WILL BE ISSUED BY THE TOWN ONLY AFTER THE REGISTRANT HAS PAID A BASE FEE PLUS A FEE FOR INSPECTION SERVICES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- 0. ALL EXCAVATION AND GRADING THAT IS NOT IN THE PUBLIC RIGHTS-OF-WAY OR NOT IN EASEMENTS. GRANTED FOR PUBLIC USE MUST CONFORM TO CHAPTER 70. EXCAVATION AND GRADING. OF THE LATEST EDITION OF THE IBC BY THE ICC. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE TOWN FOR A FEE ESTABLISHED BY THE UNIFORM BUILDING CODE.
- 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. . ON DEMOLITION, GRADING, REMODELING AND NEW CONSTRUCTION PROJECTS, PERMITTEE MUST NOTIFY
- ADJACENT PROPERTY OWNERS REGARDING THE NATURE OF THE PROJECT, THE LIME PERIOD FOR CONSTRUCTION, AND ANY UNUSUAL ACTIVITIES THAT MAY CAUSE DISRUPTION OF THE NORMAL COURSE OF TRAFFIC DURING CONSTRUCTION.
- 33. ALL PERMITTEES MUST POST A 6 SQUARE FOOT (2'X3') IDENTIFICATION SIGN, MADE OF DURABLE MATERIAL, 27. IF A DISCREPANCY IS FOUND BETWEEN ENGINEER'S PLAN OR SURVEYOR'S STAKING AND THE ARCHITECTURAL PLAN. ENGINEER IN THE FRONT YARD OF SUBJECT PROPERTY AND NOT IN THE TOWN 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, AND ADDRESS OF PROJECT. 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.
- 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. IF A STAGING AREA IS NEEDED ON A PROPERTY OTHER THAN THE CONSTRUCTION 34. THIS PLAN IS DESIGNED TO SHOW SITE GRADING AND DRAINAGE CONTRACTOR SHALL USE THE ARCHITECTURAL SITE PLAN TO SITE FOR CONSTRUCTION SUPPLIES AND EQUIPMENT, THE PERMITTEE MUST OBTAIN PROPERTY OWNER AND TOWN APPROVAL FIRST AND MUST INFORM THE ADJACENT PROPERTY OWNERS OF THE LOCATION OF STAGING AREA, AND TIME AND HOURS DURING THE DAY THE AREA WILL BE USED.
- 6. EXCEPT AS OUTLINED IN ITEM 4, 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 ARC PROHIBITED IN THE TOWN RIGHT-OF-WAY OR NEAR ADJACENT PROPERTIES.
- '. BUILDING CONSTRUCTION MUST NOT START SOONER THAN SUNRISE AND MUST STOP NO LATER THAN SUNSET. ALSO, ORDINANCE #561 IMPOSES RESTRICTIONS ON CONSTRUCTION WORK ON SATURDAYS, SUNDAYS AND MAJOR BUSINESS HOLIDAYS. HILLSIDE PROJECTS MAY HAVE ADDITIONAL RESTRICTIONS. EQUIPMENT WITH AUDIBLE REVERSE DIRECTION WARNINGS MUST NOT BE OPERATED PRIOR TO 7:00 A.M.
- 38. THE USE AND OPERATION OF FUEL-FIRED GENERATORS ON ANY CONSTRUCTION SITE, NEW, EXISTING OR REMODELING, IS PROHIBITED UNLESS DUE TO A HARDSHIP TOWN APPROVAL IS OBTAINED.
- 39. THE CONTRACTOR AND PROPERTY OWNER WILL 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, OR UNTIL SUCH TIME THAT A WRITTEN, SIGNED AND LEGALLY BINDING AGREEMENT HAS BEEN REACHED BY THC PARTIES INVOLVED TO REMEDY ANY VIOLATION WITHIN A REASONABLE TIME PERIOD, AND UNTIL ALL REQUIRED FEES ARE PAID IN FULL.
- 40. THE NATURAL FLOW OF RAINWATER AND OTHER SURFACE DRAINAGE FROM THE PROPERTY MAY NOT BE ALTERED IN ANY WAY. 1. A KEY SWITCH SHALL BE REQUIRED ON ALL NEW AND EXISTING ELECTRIC ENTRY CONTROL GATES. THE KEY
- SWITCH SHALL BE INSTALLED IN A LOCATION ON THE GATE CONTROL PANEL THAT IS READILY VISIBLE AND ACCESSIBLE. KNOX BOX ORDER FORMS ARE AVAILABLE AT THE PARADISE VALLEY BUILDING DEPARTMENT. 42. ALL EQUIPMENT OF ALL TRADES ON OR AFFECTING THE JOB MUST BE CLEANED ONLY IN A PRE-DETERMINED AND DESIGNATED AREA. DEBRIS AND RUNOFF FROM SAID AREA MAY NOT EXTEND BEYOND THE BUILDING AREA.
- 43. 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. 44. AN INSPECTION FEE WILL BE CHARGED IF THE INSPECTION IS REQUIRED AS A RESULT OF A CODE
- VIOLATION. 45. FOR DEMOLITION INSPECTION OWNER OR PERMITTEE SHALL NOTIFY OSHA FOR ASBESTOS INSPECTION. ALL DEMOLITIONS AND ALL RENOVATION ACTIVITIES THAT WILL DISTURB FRIABLE ASBESTOS CONTAINING MATERIALS MUST BE REPORTED TO THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.

## PRELIMINARY GRADING & DRAINAGE PLAN 5221 E CHENEY DR., PARADISE VALLEY, AZ 85253 LOT 12 - REPLAT OF MONTANA DE BONITAS CASAS

### **ENGINEERS NOTES**

- OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY
- 2. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. THE CONSTRUCTION COVERED BY THIS PLAN.
- GRADING SHALL BE IN CONFORMANCE WITH 2018 IBC SEC. 1803 AND APPENDIX J 4. 5% MINIMUM SLOPE AWAY FROM BUILDING FOR A MINIMUM 10', U.N.O.
- STANDARD DETAILS.
- REGULATIONS, AS AMENDED, IS REQUIRED. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION
- BE PRECEDED BY AN APPROVED PLAN REVISION.
- MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION. 10. ALL STRUCTURES AND LANDSCAPING WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL HAVE A 2 FOOT MAXIMUM HEIGHT.
- OTHERWISE.
- CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN. 14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK
- COVERED BY THIS PLAN.
- DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE.
- DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE
- 1-800-STAKE-IT) PRIOR TO ANY EXCAVATION. OF ANY NECESSARY UTILITY RELOCATION WORK.
- REQUIRED SPECIFICATIONS AND DETAILS.
- PLANS. THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.
- FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
- COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
- PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS. CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
- STARTING CULVERT WORK.
- 25. ALL ON-SITE UTILITIES PER OTHERS.
- PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.
- 28. ALL DISTURBED AREAS ARE TO BE ROPED AND ROPING MUST MATCH PLAN.
- 29. VEGETATION OUTSIDE OF CONSTRUCTION AREA TO REMAIN.
- OCCUPANCY.
- 32. ANY FUTURE IMPROVEMENTS SHOWN HEREON SHALL REQUIRE A SEPARATE PERMIT.
- 33. ANY POINTS OF DRAINAGE CONCENTRATION SHOULD BE PROTECTED AGAINST EROSION WITH NATIVE STONE.
- DETERMINE FINAL HOUSE, WALL, STEP, ETC., LOCATIONS AND ELEVATIONS.
- 35. ALL DRAINAGE FACILITIES TO BE MAINTAINED BY HOMEOWNER.
- LOWER (TYPICAL). 37. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT, DIMENSIONS AND ELEVATIONS.
- 39. FOR CHANGE IN ELEVATION THAT ARE GREATER THAN 30", PROVIDE 36" HIGH GUARDRAILS FOR TOTAL OF 42" FALL
- PROTECTION BARRIER U.N.O.
- 41. ALL WATER AND SEWER LINES AND CONNECTIONS MUST BE INSTALLED PER IPC 2012, MAG AND TOWN OF PARADISE VALLEY SUPPLEMENT TO MAG.
- OR APPROVED EQUAL).
- 45. COORDINATE RIPRAP COLOR WITH LANDSCAPE PLANS AND DETAILS. TRENCH DRAINS.
- 47. VERIFY AND COORDINATE WITH ARCHITECTURAL AND LANDSCAPE PLANS LOCATION AND HEIGHT OF ALL SITE WALLS. 48. DISTURBED AREA: TOTAL ACRES = 0.29 ACRES < 1 ACRE; NPDES PERMIT IS NOT REQUIRED.
- WALLS. POOL AND PAVEMENT ETC. 50. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC RECOMMENDATIONS AND MAXIMUM ALLOWED FILL AND CUT SLOPES.

## FIRE SPRINKLER SYSTEM

FIRE SPRINKLER SYSTEM TO BE INSTALLED PER THE REQUIREMENTS OF THE TOWN OF PARADISE VALLEY AND IN ACCORDANCE WITH I.B.C. SECT. 904.2.2 AMD. AND I.F.C. SECT. 1003.2.1 AMD.

### **PROJECT DESCRIPTION**

NEW SINGLE FAMILY RESIDENCE, NEW DRIVEWAY, NEW POOL, NEW RETAINING WALLS AND ONSITE IMPROVEMENTS WITH ON-SITE RETENTION.

**A SUBDIVISION PLAT RECORDED IN BOOM** APS, PAGE 25, MCR., SE 1/4 OF SECTION 5, T.2N, R.4E LOCATED IN A PORTION OF THE NW 1/4 OF THE NW ICOPA COUNTY, ARIZONA OF THE GILA & SALT RIVER BASE AND MER

MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL TOWN

STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) SPECIFICATIONS AND

A DUST CONTROL PLAN MEETING THE REQUIREMENTS OF RULE 310 OF THE MARICOPA COUNTY AIR POLLUTION CONTROL

AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST

CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF

11. ALL PATIOS, WALKS, AND DRIVES TO SLOPE AWAY FROM BUILDING AND GARAGES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS SPECIFIED OTHERWISE. ALL LAWN AREAS ADJOINING WALKS OR SLABS WILL BE GRADED TO 2" BELOW THE TOP OF SLAB. TYPICAL FINISHED GRADE AROUND PERIMETER OF BUILDING IS MINUS 6" BELOW FINISHED FLOOR UNLESS SPECIFIED

12. ALL MATERIAL TO BE UNDER SLABS AND WALKS SHALL BE COMPACTED TO NOT LESS THAN 95% PER ASTM D698. 13. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE

15. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT 16. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED

17. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION

18. ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT, FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED

19. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE

20. CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH ARCHITECTURE'S FINAL SITE PLAN AND

22. CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE

23. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED. THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH

24. CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE

26. THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S)' PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM

SHALL BE NOTIFIED IMMEDIATELY, FAILURE TO NOTIFY ENGINEER SHALL NEGATE ENGINEER'S LIABILITY.

30. AREAS OUTSIDE THE WALL AND CUT AND FILL SLOPES SHALL BE REVEGETATED WITH SIMILAR PLANT TYPES AND DENSITIES FOUND ON THE SITE. REVEGETATION SHALL BE COMPLETED PRIOR TO OCCUPANCY AND THE ISSUANCE OF A CERTIFICATE OF

31. MECHANICAL EQUIPMENT SHALL BE SCREENED TO A MINIMUM OF ONE FOOT ABOVE TOP OF EQUIPMENT.

36. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR SITE AND RETAINING WALLS LAYOUT, DIMENSIONS, AND DETAILS. TOP OF FOOTING ELEVATIONS SHOWN IN PLAN ARE APPROXIMATE ONLY. ACTUAL TOP OF FOOTINGS TO BE DETERMINED AT TIME OF CONSTRUCTION AND TO BE A MINIMUM OF SIX INCHES BELOW EXISTING NATURAL GRADE OR FINISHED GRADE WHICHEVER IS

38. REFER TO STRUCTURAL DRAWINGS, DETAILS AND CALCULATIONS FOR ALL PROPOSED RETAINING WALLS.

40. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE - 5% MIN SLOPE FOR FIRST 10 FEET, U.N.O.

42. WATERPROOF ALL EXTERIOR WALLS 18" ABOVE FINISH GRADE-(BITUTHENE® 3000 HC MEMBRANE W/ GRACE PROTECTION 03

43. ALL PIPES AND FITTINGS SHALL BE INSTALLED PER MANUFACTURE'S SPECIFICATIONS AND DETAILS. 44. ABANDONMENT OF EXISTING AND INSTALLATION OF NEW SEPTIC SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT RULES AND STANDARDS, AND WILL REQUIRE SEPARATE PERMIT.

46. VERIFY AND COORDINATE WITH LANDSCAPE PLANS FINAL LOCATION AND GRATE TYPE OF SPECIFIED AREA DRAINS AND

49. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR DEMOLITION AND REMOVAL OF ANY EXISTING BUILDING STRUCTURES, SITE

STABILITY OF EXISTING ROCK PINNING AND NET SHALL BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER.

NA DE	BONITAS C
K 266 OF	MAPS, PAGE 25,
	THE SE 1/4 OF S
_	ARICOPA COUN
LEGEN	
×	SCRIBED "X" IN CONCRETE BRASS CAP IN HANDHOLE
۲	BRASS CAP FLUSH
•	FOUND 1" IRON PIPE
O	SET 1/2" REBAR & TAG OR AS NOTED
0	CALCULATED POINT
<b>— —</b>	PROPERTY LINE
	EASEMENT LINE
	MONUMENT LINE SEWER MANHOLE
<del></del>	SIGN
WM	WATER METER
$\otimes$	WATER VALVE
€ E.M.	FIRE HYDRANT ELECTRIC METER
∏ ⊗	GAS VALVE
G.V.	TELEPHONE PEDESTAL
CTV	CABLE TV RISER
T	CATV, PHONE
S	SEWER LINE
W	WATER LINE
Е С	ELECTRIC LINE COMMUNICATIONS LINE
ooo	FENCE
	EXISTING CONTOUR
Za	EXIST. DRAINAGE FLOW
12.12	EXIST. SPOT ELEVATION
	PALO VERDE
	MESQUITE TREE
	PROPOSED DISTURBED AREA
	FLOW LINE
	DRAINAGE FLOW ARROW
-XX.XX 	PROPOSED SPOT ELEVATION
	PROPOSED CONTOUR
TR/TW: XX.XX TRW: XX.XX FG: XX.XX (BW: XX.XX) TF: XX.XX	TOP OF RAILING/NON-RET. WALL TOP OF RETAINING WALL FINISH GRADE TOP OF FOOTING FINISH GRADE AT BOTTOM OF WAL
	CATCH BASIN STORM DRAIN PIPE

GRADE AT BOTTOM OF WALL BASIN STORM DRAIN PIPE HISTORIC NATURAL GRADES PER ы1344..... \_\_\_\_\_ RETAINING WALL/AGAINST BUILDING EXTENDED BUILDING STEM WALL REVEGETATED AREA

### ABBREVIATIONS

BACK OF CURB
BUILDING SETBACK LINE
EXISTING GRADE
ELEVATION
EDGE OF PAVEMENT
EASEMENT
EXISTING
FINISH GRADE
FOUND
GUTTER, GAS
MEASURED
MARICOPA COUNTY RECORDER
MANHOLE
PAVEMENT
PUBLIC UTILITY EASEMENT
RECORDED
RADIUS
RIGHT OF WAY
TANGENT, TELEPHONE
TOP OF CURB
TOP OF GRATE
WEST, WATERLINE

## NATIVE PLANTS

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

EXIST. LOT AREA: 45,124 S.F. (1.036	
TOTAL FLOOR AREA UNDER ROOF: FLOOR AREA RATIO:	8,012 S.F. 17.8% < 25%
(TOTAL FLOOR AREA/AREA OF LOT)	17.0% \ 25%
BUILDING PAD SLOPE:	32.95%
VERTICAL:	29 FT
HORIZONTAL:	88 FT
ALLOWABLE NET DISTURBED AREA: 4	,585 S.F. (10.16%)
EXIST. GROSS DISTURBED AREA: 0 S	.F. (0%)
EXIST. NET DISTURBED AREA: 0 S.F.	(0%)
GROSS NEW DISTURBED AREA: 12,73	
LESS NEW CONCRETE DRIVEWAY (25%	· · ·
LESS TEMPORARY AREAS OF DISTURE	•
TO BE RESTORED AND REVEGETATED:	580 S.F. (1.28%)
LESS BUILDING FOOTPRINT AREA:	· · ·
PROPOSED NET DISTURBED AREA: ALLOWED SLOPES STEEPER	4,304 S.F. (9.54%)
THAN NATURAL GRADE (5% MAX.):	2,256 S.F. (5%)
PROPOSED SLOPES STEEPER	
THAN NATURAL GRADE (AREA):	2,223 S.F. (4.9%)
VOLUME OF CUT:	2,510 C.Y.
VOLUME OF FILL:	<u>113 C.Y.</u>
TOTAL CUT&FILL:	2,623 C.Y.
HILLSIDE ASSURANCE = 35 TIMES TH	IE GRADING PERMIT FEE
\$91,420	
GRADING PERMIT FEE: \$2,612 (\$142	FIRST 100 CY / \$95 E
ADDITIONAL 100 CY).	
ALL QUANTITIES LISTED ON THESE PL THE CONTRACTOR SHALL MAKE THEIR	
THE CONTRACTOR CHAIL MADE THEFT	

## **GRADING SPECIFICATIONS**

1. EXCAVATION AND GRADING OF THIS SITE IS CLASSIFIED AS "ENGINEERED GRADING" PER 2018 I.B.C. AND WILL BE PERFORMED ACCORDINGLY

2. THE CONTRACTOR WILL RETAIN A SOILS ENGINEER DURING CONSTRUCTION TO INSPECT PROGRESS OF CONSTRUCTION. CONCERNING PREPARATION OF GROUND TO RECEIVE FILLS, TESTING AND REQUIRED COMPACTION STABILITY OF ALL FINISH SLOPES INCLUDING CUT SLOPES. 3. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND PROVISIONS AS SET FORTH IN THE SOILS REPORT 4. BEARING MATERIALS FOR FILL UNDER RESIDENCE PAD IF NATIVE MATERIAL IS USED. LARGE ROCK FRAGMENTS MUST BE REMOVED THAT ARE IN EXCESS OF SIX INCHES. REMAINING MATERIAL MUST BE SMALLER PARTICLES OF SAND AND ROCK THAT CAN BE COMPACTED INTO A DENSE CONDITION. MAXIMUM PARTICLE SIZE . . . . . . . . . . . . . . . . . . 6 INCHES 

5. CUT-SLOPES: MAXIMUM ROCK CUT SLOPE TO BE 1.0 FEET HORIZONTAL TO 3.0 FEET VERTICAL PER GEOTECHNICAL STUDY.

6. FILL SLOPES: MAXIMUM FILL SLOPE TO BE 2.0 FEET HORIZONTAL TO 1.0 FEET VERTICAL 7. COMPACTION FILL MATERIAL MUST BE PLACED ON LEVELED BENCHES CUT INTO UNDISTURBED EXISTING HILLSIDE. PLACE FILL IN HORIZONTAL LIFTS OF THICKNESS COMPATIBLE WITH THE COMPACTION EQUIPMENT USED. COMPACT TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM A.S.T.M. DENSITY AT THE OPTIMUM MOISTURE CONTENT OF ± TWO PERCENT. THIS PERTAINS TO ALL ENGINEERED STRUCTURAL FILL SUPPORTING STRUCTURES AND INCLUDING FILL UNDER ANY OF THE RETAINING WALLS. COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE SOILS ENGINEER AND TOWN OF PARADISE VALLEY BUILDING AND SAFETY DEPARTMENT. 8. ANY RETAINING WALLS ADJACENT TO THE PROPERTY LINES WILL BE UNDER THE SCOPE OF SPECIAL INSPECTION BY THE SOILS ENGINEER. THE DEVELOPER SHALL NOTIFY THE ADJOINING PROPERTY OWNERS IN WRITING. TEN DAYS PRIOR TO START OF CONSTRUCTION ON THESE WALLS PER SECTION 2903-B OF IBC. THE FCDMC & COP AERIAL TOPOGRAPHY DEVELOPER WILL HAVE TO PROVIDE MEANS OF PROTECTION OF ADJACENT PROPERTY WHILE THIS WORK IS UNDER CONSTRUCTION. 9. ALL EXPOSED CUT AND FILL SHALL BE TREATED WITH AN APPROVED AGING AGENT TO MINIMIZE TO VISUAL

CONTINUITY.

## **TOWN OF PARADISE VALLEY HILLSIDE NOTES**

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

B. ALL OUTDOOR LIGHTING SHALL BE IN CONFORMANCE WITH ARTICLE XXII OF THE TOWN ZONING ORDINANCE. C. ALL EXCESS FILL MATERIAL SHALL BE REMOVED FROM THE SITE WITH NO NEW SPILL SLOPES.

- D. THE USE OF HYDRAULIC RAM HAMMERS, OR OTHER HEAVY EQUIPMENT USED TO CUT THROUGH ROCK. INCLUDING MACHINERY WITH AUDIBLE BACK UP WARNING DEVICES SHALL BE LIMITED TO USE BETWEEN THE HOURS OF 7:00AM OR SUNRISE, WHICHEVER IS LATER, AND 6:00PM OR SUNSET, WHICHEVER IS EARLIER, MONDAY THROUGH FRIDAY, WITH LIMITED WORK ON SATURDAY AND NO WORK ON SUNDAY OR LEGAL
- WAIVER FROM THE TOWN MANAGER. E. CONSTRUCTION STAKING AND/OR FENCING SHALL BE PLACES AROUND THE CONSTRUCTION SITE SO AS TO PROTECT THE UNDISTURBED NATURAL AREA.
- F. ALL RETAINING WALLS SHALL NOT EXTEND MORE THAN 6 INCHES ABOVE THE MATERIAL THEY RETAIN (WITH EXCEPTION OF DRIVEWAY RETAINING WALLS IN ACCORDANCE WITH 2207.VI.6).

## DRAINAGE STATEMENT

- 1. ULTIMATE STORM OUTFALL IS LOCATED AT NORTHWESTERLY PROPERTY CORNER AT ELEVATION OF 1520.50. 2. NEW SINGLE FAMILY RESIDENCE IS PROPOSED WITH THIS PROJECT.
- 3. PROPOSED DEVELOPMENT DOES NOT IMPACT DRAINAGE CONDITIONS OF ADJOINING LOTS.
- 4. EXISTING DRAINAGE PATTERNS ARE PRESERVED.
- RUN-OFF EVENT IF CONSTRUCTED PER THE APPROVED CIVIL PLANS.
- 6. PROPOSED STORM DRAIN SYSTEM SHALL BE INSPECTED AND CLEANED FROM DEBRIS AND SILT AFTER EVERY MAJOR STORM EVENT.
- 7. RIPRAP AND BOULDERS ARE SPECIFIED AT ALL POINTS OF DISCHARGE TO MITIGATE EROSION AND TO CONVERT CONCENTRATED FLOWS BACK TO SHEET FLOWS.

SHEET INDEX COVER SHEET C-1

PRELIMINARY GRADING & DRAINAGE C-2 DETAILS

## UTILITIES

WATER: EPCOR WATER SANITARY SEWER: CITY OF PHOENIX ELECTRIC: ARIZONA PUBLIC SERVICE TELEPHONE: CENTURY LINK, COX COMMUNICATIONS NATURAL GAS: SOUTHWEST GAS CABLE TV: CENTURY LINK, COX COMMUNICATIONS

## **UTILITIES NOTES**

HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE ONLY AND WILL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION WORK. CALL BLUE STAKE @ (602) 263–1100.

### EARTHWORK QUANTITIES CUT: 2,510 C.Y.

FILL: 113 C.Y. NET CUT: 2,397 C.Y.

ALL QUANTITIES LISTED ON THESE PLANS ARE ESTIMATES ONLY. NO SHRINK OR SWELL IS ASSUMED. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE QUANTITIES AND BASE THEIR BIDS ON THEIR ESTIMATES.

HOLIDAYS. RAM HAMMERS AND OTHER HEAVY EQUIPMENT CANNOT BE USED ON SATURDAYS WITHOUT A

5. THE MINIMUM FINISH FLOOR ELEVATIONS SHOWN ARE SAFE FROM INUNDATION DURING A 100-YEAR PEAK

### PARADISE CANYON RD CHENEY DR PROJECT SEC. 5 T2N, R4E VICINITY MAP ARCHITECT **OWNER** STEVEN AND DEBORAH MOAK DREWETT WORKS 6501 E EL MARO CIR. 7144 E STETSON DR, #204 PARADISE VALLEY, AZ 85253 SCOTTSDALE, AZ 85251 P: 855 373 9388 SITE DATA **CIVIL ENGINEER** 169-06-100 LAND DEVELOPMENT GROUP, LLO APN: ADDRESS: 5221 E CHENEY DR., 8808 N CENTRAL AVE, SUITE 288 PARADISE VALLEY, AZ 85253 PHOENIX, AZ 85020 CONTACT: NICK PRODANOV, PE ZONING: R-43 LOT AREA: 45,124 S.F (1.036 AC.) P: 602 889 1984 QS #: 23-40 TOTÄL UNDER ROOF AREA: 8,012 S.F. FLOOR AREA RATIO: 17.8%

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PLAN

Reliminary & Drainage Ver Sheet

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## **BASIS OF BEARINGS**

THE MONUMENT LINE OF CHENEY DRIVE, THE BEARING OF WHICH IS N89\*57'57"W.

## **BENCHMARK**

ALUMINUM CAP IN HAND HOLE BEING THE NORTH 1/4 CORNER OF SECTION 5. T2N.R4E HAVING AN ELEVATION OF 1397.343 TOWN OF PARADISE VALLEY (NAVD 88) DATUM, GDACS# 24502-1M.

## **LEGAL DESCRIPTION**

LOT 12. OF REPLAT OF MONTANA DE BONITAS CASAS. ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA, RECORDED IN BOOK 221 OF MAPS, PAGE 11 AND THEREAFTER REPLATTED IN BOOK 266 OF MAPS, PAGE 25.

## FLOOD INSURANCE RATE MAP (FIRM) DATA

С	0mmunity # 040049		ANEL # OF 4425	SUFFIX L	BASE FLOOD
	MAP #	PANEL DATE	FIRM INDEX DATE	ZONE	ELEVATION
	04013C	10/16/2013	11/04/2015	X*	N/A

\*AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

## **AS-BUILT CERTIFICATION**

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE

REGISTERED ENGINEER / LAND SURVEYOR

**REGISTRATION NUMBER** 

## FINISH FLOOR CERTIFICATION

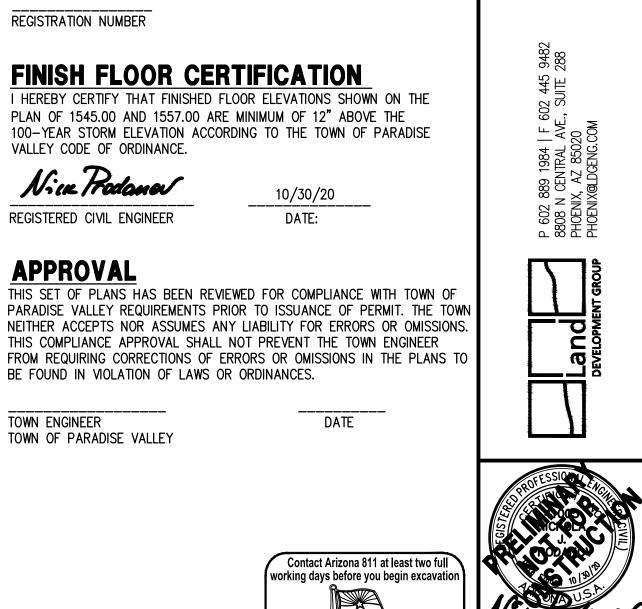
I HEREBY CERTIFY THAT FINISHED FLOOR ELEVATIONS SHOWN ON THE PLAN OF 1545.00 AND 1557.00 ARE MINIMUM OF 12" ABOVE THE 100-YEAR STORM ELEVATION ACCORDING TO THE TOWN OF PARADISE VALLEY CODE OF ORDINANCE.

Nice	Ra	dana
REGISTERED	CIVIL	ENGINEER

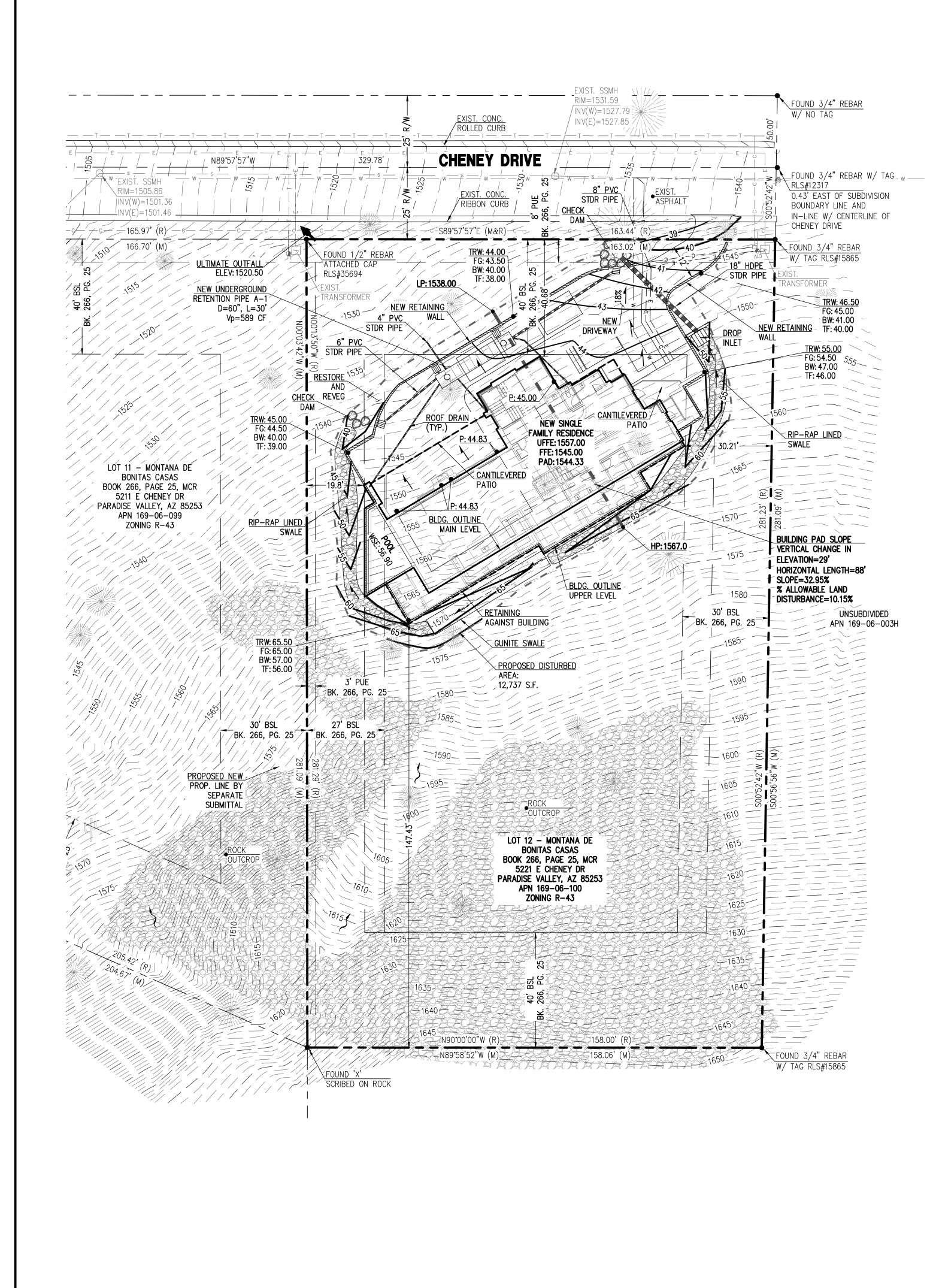
APPROVAL

TOWN ENGINEER

TOWN OF PARADISE VALLEY



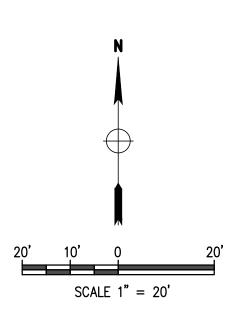
DLUE STAKE, INC. Call 811 or click Arizona811.com



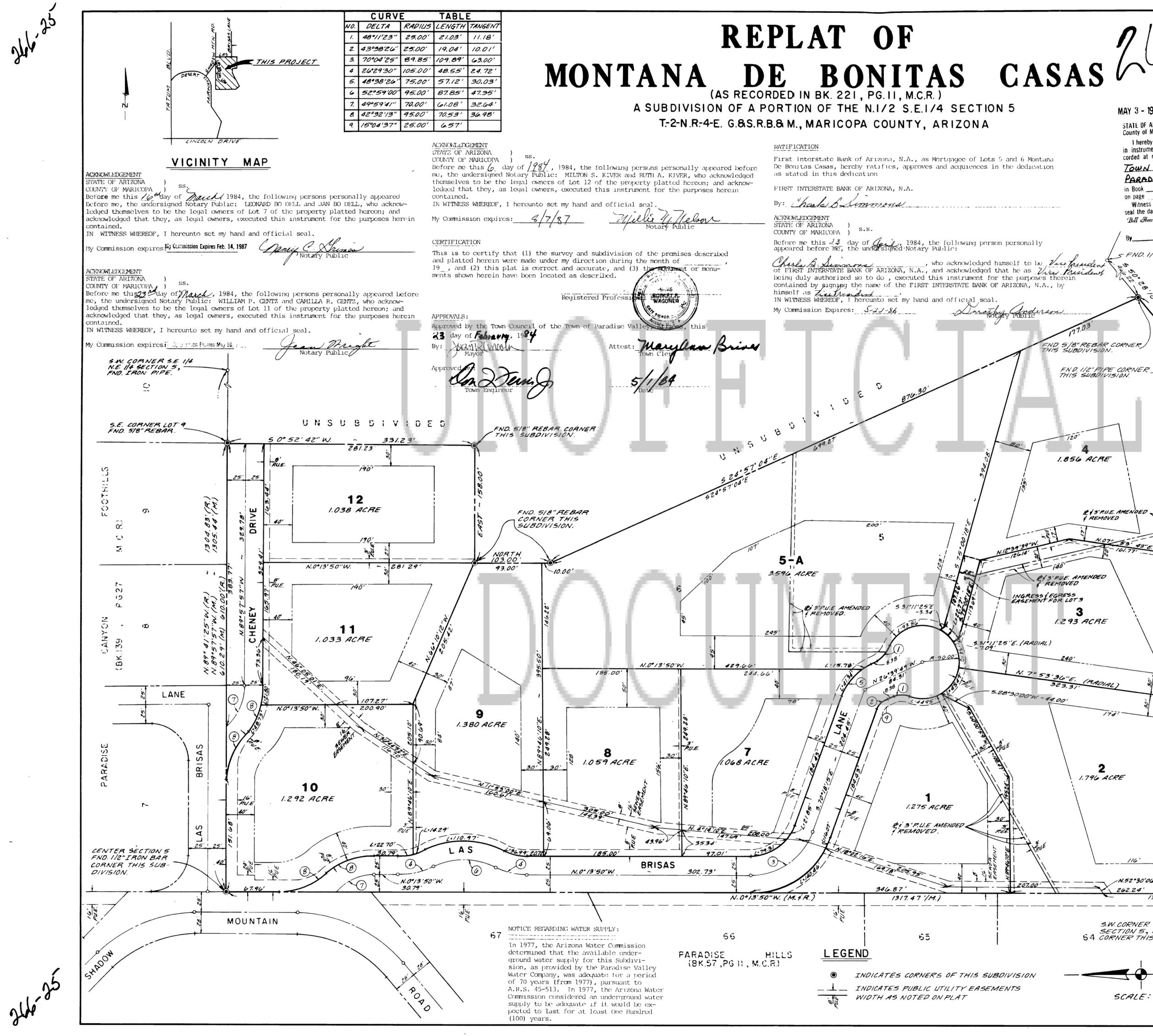
	ON	I-SITE RETEN	ITION FOR THE	PRE VS. PO	ST DEVELOPN	ient runoff from 10	00-YEAR, 2-H	OUR STORM	EVENT			
V=DxAx(Cw, Vf=(DfxAxCv	=DxAx(Cw,post—Cw,pre)/12   D — RAINFALL DEPTH = 2.21"   A — TRIBUTARY AREA, SF   Cw — WEIGHTED RUNOFF COEFFICIENT f=(DfxAxCw,post)/12   Df — RAINFALL DEPTH = 0.5" FIRST FLUSH   A — TRIBUTARY AREA, SF   Cw — WEIGHTED RUNOFF COEFFICIENT											
DRAINAGE AREA	AREA	RUNOFF COEFFICIENT	COEFFICIENT   REQUIRED   RETENT	RETENTION BASIN ID	CONTOUR ELEVATION	CONTOUR AREA	DEPTH	VOLUME PROVIDED	AS-BUIL Volume Provide			
	S.F.	Cw	C.F.	C.F.					S.F.	FT	C.F.	C.F.
Α	12,737*	0.18	422	451	A1	UNDERGROUND HDPE PIPE	L=30'	D=60"	589			
TOTAL		1	422	451					589			

(1) RAINFALL DEPTH IS PER NOAA ATLAS 14, VOLUME 1, VERSION 5.\* COVERS ONLY THE DISTURBED AREA

	D RUNOFF COEF PRE- DEVELOPM			WEIGHTED RUNOFF COEFFICIENT, CW POST- DEVELOPMENT			
SURFACE TYPE	RUNOFF COEFFICIENT	AREA	C*AREA	SURFACE TYPE	RUNOFF COEFFICIENT	AREA	C*AREA
	С	SF			С	SF	
STREET PAVEMENT	0.95	0	0	PAVEMENT & ROOF	0.95	9,289	8,825
NATIVE HILLSIDE	0.70	12,737	8,916	NATIVE HILLSIDE	0.70	3,448	2,414
	TOTAL	12,737	8,916		TOTAL	12,737	11,238
Cw = C * AREA / TOTAL AREA 0.7				Cw =	C * AREA / T	OTAL AREA	0.88



Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com	REVISIONS: DATE: 10/30/20 DATE: 10/30/20		BBOB N CENTRAL AVE., SUITE 288 MONITANA DE DONITAS CASAS PHOFNIX AZ BENZO BHOFNIX AZ BENZO BHOFNIX BHOFNIX AZ BENZO BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOFNIX BHOF	DEVELOPMENT GROUP PHOENIX@DGENG.COM DEVELOPMENT GROUP PHOENIX@DGENG.COM PARADISE VALLEY. AZ 852	THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF LAND DEVELOPMENT GROUP, LLC. UNAUTHORIZED USE REDER. REPRODUCTION BY ARTHOU IN WHOLE OR IN PROVIDENT OF AND
	DATE: 10/30/20	JOB: 2008217	VERSION: 1.1	PLOT DATE: 10/30/20	HICH IT WAS PREPARED.
	SCALE: 1"=20'	DESIGNED BY: NP	DRAWN BY: CM	CHECKED BY: JI	F LAND DEVELOPMENT GROUP, LLC. C OR IN PART WITHOUT THE WRITTEN NG SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WH
	DATE:				shall remain property of N BY any method in whole D. The USE of This drawn
	REVISIONS:				THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH UNAUTHORIZED USE, REUSE, REPRODUCTIONS, OR PUBLICATIO PERMISSION OF LAND DEVELOPMENT GROUP, LLC IS PROHIBIT
	P 602 889 1984   F 602 445 9482 8808 N CENTRAL AVE., SUITE 288 PHOENIX, AZ 85020 PHOENIX, AZ 85020 PHOENIX, AZ 85020 PHOENIXGLDGENG.COM				
working days before you begin excavation	N.	-	C-2	-	





266-25 **FDICATION** 84 189384 STATE OF ARIZONA ) COUNTY OF MARICOPA ) S.S. KNOW ALL MEN BY THESE PRESENTS: That Geoffry H. Edmunds and Associates, Inc., an Arizona Corporation, E. A. Uhlmann, Russell A. Lyon, Jr., and Rosalyn B. Lyon, as husband and wife Gordon D. Galarneau, Jr. and Penny Sue Galarneau, as husband and wife, Max McGee, Robert ( Weeks and Nancy R. Weeks, as husbnad and wife, Leonard BoDell and Jan BoDell, as husband and wife, William P. Gentz and Camilla R. Gentz, as husband and wife and Milton S. Kiver and Ruth A. Kiver, as husband and wife, as legal owners of said real property, have subdivided under the name of REPLAT OF MONTANA DE BONITAS CASAS, a replat of MONTANA DE BONITAS CASAS as recorded in (Book 221, Page 11, M.C.R.) and being a portion of the N<sup>1</sup><sub>2</sub> MAY 3 - 1984 -12 15 SE' Section 5, T.2 N., R. 4 E., G. & S. R. B. & M., Maricopa County, Arizona, as shown hereon and hereby publishes this plat and hereby declare that this plat sets forth the STATE OF ARIZONA SS location and gives the dimensions of the lots and streets constituting same and that each County of Maricopa lot and each Street shall be known by the number or name given to each represpectively on I hereby certify that the withsaid plat, and hereby dedicate and grant to the TOWN OF PARADISE VALLEY, the streets and in instrument was filed and re-Rights of Way shown on this plat and included in the above described premises. Easements corded at request of are hereby dedicated for the purposes shown. TOWN OF IN WITNESS WHEREOF: Geoffry H. Edmunds and Associates, Inc., an Arizona Corpoartion, E. PARADISE VALLEY Uhlmann, Russell A. Lyon, Jr., Rosalyn B. Lyon, Gordon D. Galarneau, Penny Sue Galarneau, 25 Max McGee, Robert G. Weeks, Nancy R. Weeks, Leonard BoDell, Jan BoDell, William P. Gentz, in Book Camilla R. Gentz, Milton S. Kiver, Ruth A. Kiver, as Owners have hereunto affixed their on page Witness my hand and officiat signatures this day of , 1984. seal the day and year aforesaid. GEOFFRY H. / LOMUNDS AND ASSOCIATES Bill Henry County Recorder Deputy Recorder las owner-FND. 1/2" IRON PIPE analyor Steron osalyn B. Lyon (as owner of Lot (as owner of Lot 2) Jenninger Balaental Jalarmian / Sordon a. Penny Sue Galarneau larneau, Jr (as owner of tot 5 & 6) (as owner of Lot 5 & 6) Nancy R. Weeks Robert G. (as owner of Lot 4) (as owner of Lot 4) END. 5/8" REBAR CORNER, THIS SUBDIVISION. Vience Bodell Jan BoDell las owner of Lot (as owner of Lot FND. 1/2" PIPE CORNER\_ THIS SUBDIVISION. Maland anil Camilla R. Centz (as owner of Lot 11), (as owner of Lot 11) Milton & Auer Milton S. Kiver (as owner of Lot 12) (as owner of Lot 12) (as owner of Lot 3) ACKNOWLEDGEMENT STATE OF ARIZONA COUNTY OF MARICOPA , ) Before me this 23/2 day of Fib., 1984, the following person personally appeared before me the undersigned Notary Public: GEOFFRY H. EDMUNDS who acknowledged himself to be the 2 President of Geoffry H. Edmunds and Associates, Inc., an Arizona Corporation, as legal owner of Lots 8, 9, and 10 of the property platted hereon; and, acknowledged that he as ы RAS'PUE AMENDED said President executed this instrument for the purposes herein contained.  $(\mathbf{x})$ REMOVED IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission Expires: My Commission - PSES Marte Mill Lican Hright / Notary Public ACKNOWLEDGEMENT STATE OF ARIZONA COUNTY OF MARICOPA E Before me this 23rd day of Fib., 1984, the following person personally appeared before me, the undersigned Notary Public: E. A. UHIMANN, who acknowledged himself to be the legal owner of Lot 1, of the property platted hereon; and acknowledged that he as legal S owner, executed this instrument for the purposes herein contained. 2 IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission Expires My Commission Expires and a 1984 ACKNOWLEDGEMENT STATE OF ARIZONA COUNTY OF MARICOPA ) Before me this Alth day of Helyuny, 1984, the following persons personally appeared before me, the undersigned Notary Jublic: RUSSELL A. LYON, JR. and ROSALYN B. LYON, who acknowledged themselves to be the legal owners of Lot 2 of the property platted hereon; and acknowledged that they, as legal owners, executed this instrument for the purposes (RADIAL herein contained. IN WITNESS WHERFOF, I hereunto set my hand and official seal. Notary Public My Commission Expires: //-4-55 ACKNOWLEDGEMINI STATE OF ARIZONA COUNTY OF MARICOPA ) Before me this 23 day of 7.0., 1984, the following persons personally appeared before me, the undersigned Notary Public: CORDON D. GALARNEAU, JR., and PENNY SUE GALARNEAU, who acknowledged themselves to be the legal owners of Lots 5 & 6 of the property platted hereon; and acknowledged that they, as legal owners, executed this instrument for the pur-2 poses herein contained. 1.796 ACRE IN WITNESS WHEREFOR, I hereunto set my hand and official seal. My Commission Expires: My Commission - 18 1984 ACKNOWLEDGEMENT STATE OF ARIZONA SS. COUNTY OF MARICOPA Before me this 5th day of March, 1984, the following person personally appeared before me, the undersigned Notary Public: MAX McGEE, who acknowledged himself to be the legal owner of Lot 3 of the property platted hereon; and acknowledged that he as legal owner, executed this instrument for the purposes herein contained. IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission Expires: My Commission Expires May 16, 1984 \_N.52°30'06"E. -10.05' ACKNOWI EDGEMEN 262.24 STATE OF ARIZONA COUNTY OF MARICOPA\_ ) Before me this 19th day of Mar, 1984, the following persons personally appeared before me, the undersigned Notary Public: ROBERT G. WEEKS and NANCY R. WEEKS, who acknowledged themselves to be the legal owners of Lot 4 of the property platted hereon; and acknowledged S.W. CORNER N.W 1/4 S.E. 1/4 SECTION 5, FND. IRON PIPE that they, as legal owners, executed this instrument for the purposes herein contained. 54 CORNER THIS SUBDIVISION IN WITNESS WHEREOF, I hereunto set my hand and official seal. My Commission expires: My Commission Expires May 16, 1984 Jein Wright Notary Public Collar, Williams & White Engineering, Inc Consulting Engineers and Land Surveyors SCALE: 1"=60 2922 NORTH 70TH STREET COTTSDALE, AMZONA 8525 JOB NO 830630

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