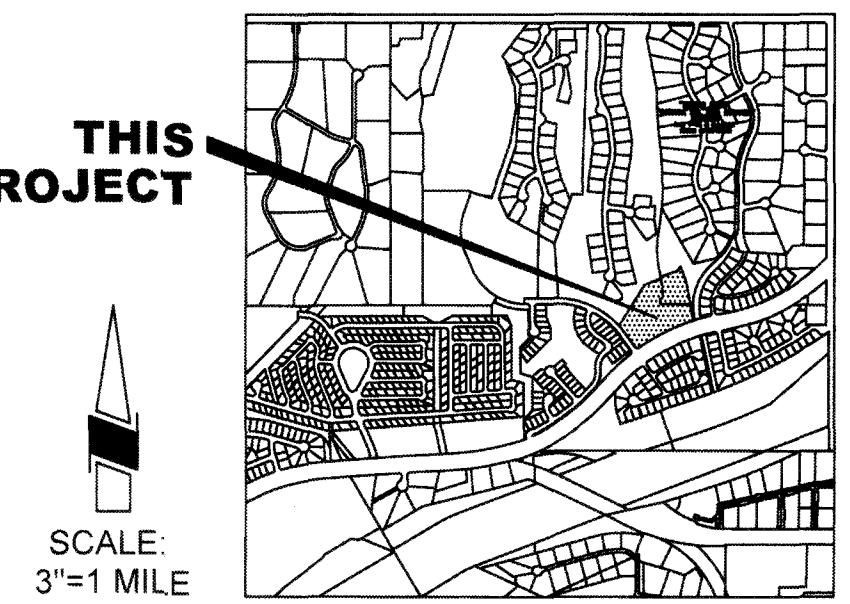


# RAINWATER HARVESTING PLAN FOR: RIVER'S EDGE LOTS 103-123

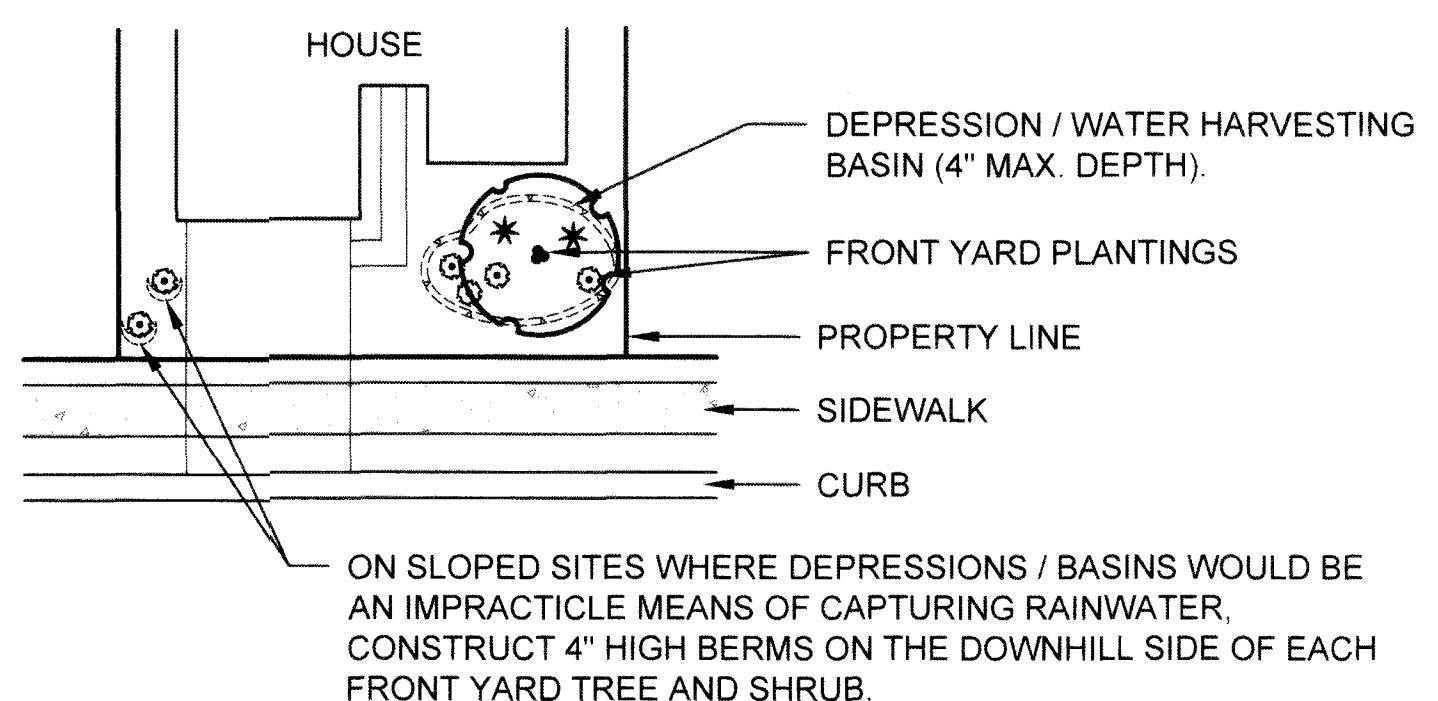
1901060



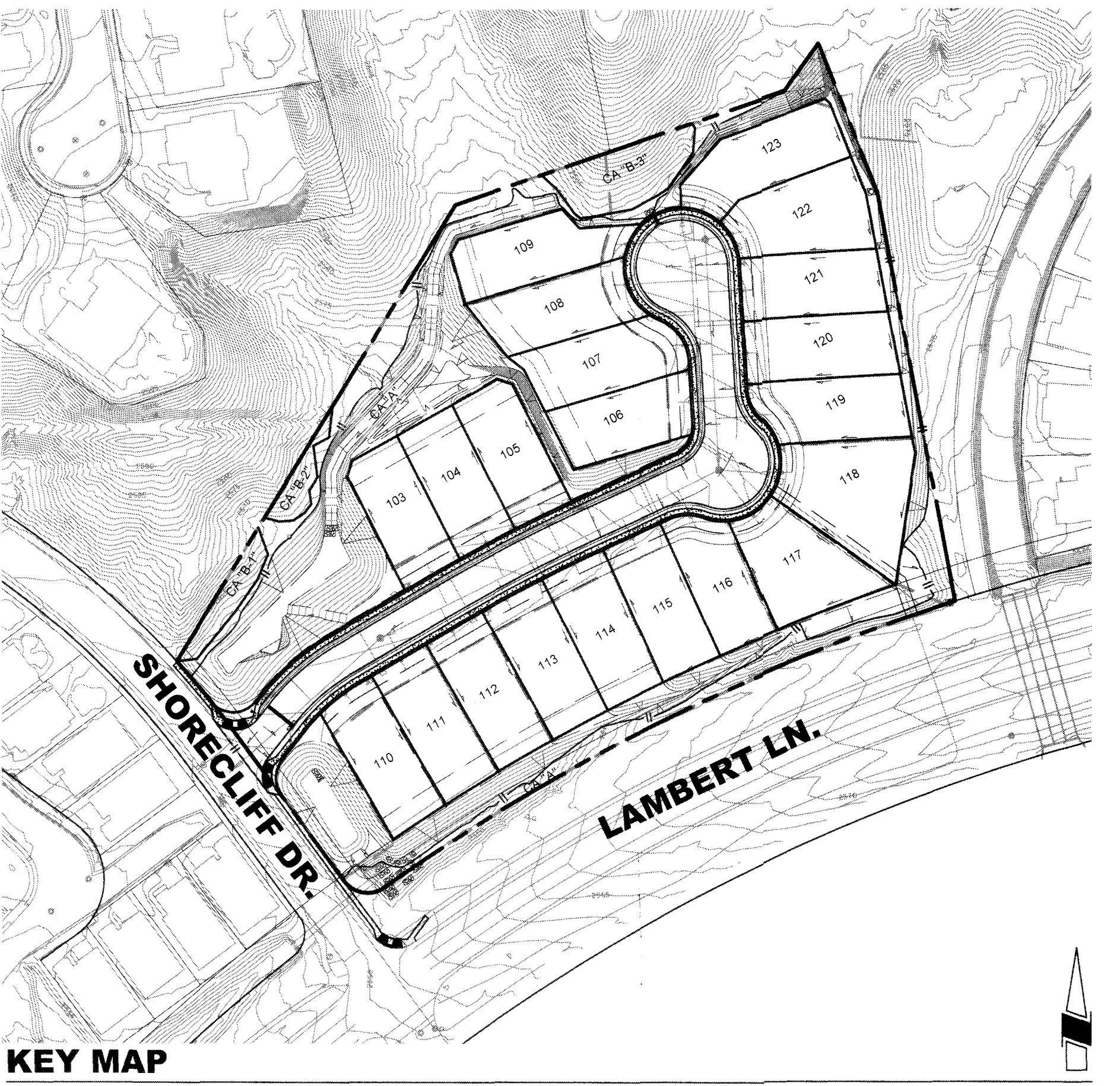
**LOCATION MAP**  
A PORTION OF SECTION 12, T 11 S, R 13 E  
G & SRM TOWN OF ORO VALLEY,  
PIMA COUNTY, ARIZONA

## RAINWATER HARVESTING GENERAL NOTES

- TOTAL AREA OF ALL NEW IMPERVIOUS SURFACES INCLUDING PAVEMENTS, SIDEWALKS, HARDCAPE AREAS AND BUILDINGS IS: 119,000 ± SQ. FT. (ASSUMED MAXIMUM BASED ON BUILDING SETBACKS)
- TOTAL VOLUME OF RAINWATER HARVESTING PROVIDED IS: 9,049 CU. FT. ± (DOES NOT INCLUDE FRONT YARD AREAS.)
- RAINWATER HARVESTING MEASURES EMPLOYED FOR THIS DEVELOPMENT CONSIST OF THE FOLLOWING:
  - PASSIVE RAINWATER HARVESTING BASINS IN FRONT YARDS
  - PASSIVE RAINWATER HARVESTING BASINS IN COMMON AREAS WHERE POSSIBLE BASED ON GRADING DESIGN
  - PASSIVE RAINWATER HARVESTING IN DETENTION BASIN
- ALL RAINWATER HARVESTING MEASURES SHOWN ON THIS PLAN SHALL BE INTEGRATED INTO BOTH THE LANDSCAPE INSTALLATION AS WELL AS THE SITE GRADING CONSTRUCTION.
- ONLY THE LOT GRADING SCHEME(S) IDENTIFIED ON THE APPROVED GRADING PLAN SHALL BE OFFERED TO THE INDIVIDUAL HOME BUYER FOR EACH LOT LISTED. PER THE FINAL SITE PLAN SUBMITTED CONCURRENTLY WITH THIS PLAN, PROPOSED LOT GRADING SCHEMES ARE AS FOLLOWS:  
LOTS 103-114 - TYPE 'A' (FRONT DRAINING)  
LOT 115-123 - TYPE 'C' (REAR DRAINING)
- FOR LOTS WITH FULLY GRADED FRONT YARDS, CATCHMENT AREAS TO UTILIZE RAINWATER MUST BE ESTABLISHED FOR PLANT USE. AT A MINIMUM, DEPRESSIONS AND/OR WELLS MUST BE ESTABLISHED FOR ALL TREES.
- THIS PROJECT IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF ZONING CODE SECTION 27.6.D.4.c THROUGH THE USE OF PASSIVE WATER HARVESTING BASINS IN COMMON AREAS AND FRONT YARDS. SITE CHARACTERISTICS PREVENT EIGHTY (80) PERCENT OF THE AREA WITHIN EACH LINEAR BUFFER YARD SEGMENT AND WITHIN COMMON AREAS TO BE GRADED TO A MINIMUM DEPTH OF FOUR (4) INCHES TO ENABLE COLLECTION OF RAINWATER, AS NOTED ON SHEET 2.



## TYPICAL FRONT YARD WATER HARVESTING



KEY MAP

SCALE: 1" = 100'

## SYMBOL LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- BUILDING SETBACK
- EASEMENT
- TOP/TOE OF SLOPE
- GRADING LIMIT
- WATERSHED BOUNDARY
- PROPOSED SEWER LINE AND MANHOLE
- PROPOSED SEWER LINE AND CLEANOUT
- PROPOSED WATER LINE AND VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER

## PROJECT DIRECTORY:

### OWNER/DEVELOPER

MELCOR DEVELOPMENTS ARIZONA, INC.  
6930 E CHAUNCEY LANE, SUITE 153  
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PHONE: 480-699-4687  
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### LANDSCAPE ARCHITECT

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TUCSON, AZ 85712  
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PHONE: 520-795-1000  
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6150 NORTH 16TH STREET  
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PHONE: 602-957-3350  
CONTACT: CHRIS PATTON, P.E.  
EMAIL: CPATTON@RICKENGINEERING.COM

## SHEET INDEX

SHT.	#	SHEET DESCRIPTION
RW-01	1	COVER SHEET
RW-02	2	RAINWATER HARVESTING PLAN

## APPROVAL

*Reh*  
TOWN ENGINEER

1-11-2020  
DATE

*Boyle*  
PLANNING AND ZONING  
ADMINISTRATOR

1-21-2020  
DATE

OV1801921  
OV1600944, OV12-03-20  
RIVERS EDGE (MELCOR) PLANNED AREA DEVELOPMENT #7

**RW-01**

REGISTERED LANDSCAPE ARCHITECT CERTIFICATE NO. 36734 MARK E. FELLINGER 12/19/19 Signature	4191	APPR DATE
M. <i>Fellinger</i>		
3945 EAST FORT LOWELL ROAD, SUITE 111 TUCSON, AZ 85712 (520) 795-1000 (FAX) 520-322-6956 rickengineering.com Phoenix, San Diego, Sacramento, Riverside, Orange, San Luis Obispo, Bakersfield, Tucson	JN 4191	
RAINWATER HARVESTING PLAN FOR: RIVER'S EDGE LOTS 103-123		
LOTS 103-123 AND COMMON AREAS 'A' & 'B-1' & 'B-3' BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 12, TOWNSHIP 12, SOUTH RANGE 13, EAST, SULA & SALT RIVER MERIDIAN, TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA		
DESIGNED BY: MEF DRAWN BY: MEF	DATE: 12/19 DATE: 12/19	CHECKED BY: APPROVED BY:
1901060		
SCA	HORIZ : 1" = 30' VERT : N/A	
OV #1901060 PERMIT #20420455		
SHEET 1 OF 2		



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&lt;divF:\4191\_River's\_Edge\Landscape\4191A-WTR HARVEST PLAN.dwg Plotted: Dec. 19, 2019

# RAINWATER HARVESTING PLAN FOR: RIVER'S EDGE LOTS 103-123

2455

1901060	
C A L E	HORIZ : 1" = 30' VERT : N/A
SHEET 2 OF 2	

&lt;divOV#1901060 PEI

<p><b>RICK</b> ENGINEERING COMPANY Tucson</p> <p>3945 EAST FORT LOWELL ROAD - SUITE 111 TUCSON, AZ 85712 520.795.1000 (FAX)520.322.6956</p> <p>Phoenix - San Diego - Sacramento - Riverside - Orange - San Luis Obispo - Bakersfield</p> <p><i>M. Fellinger</i></p>			
DESIGNED BY: MEF	DATE: 12/19	CHECKED BY:	DATE:
DRAWN BY: MEF	DATE: 12/19	APPROVED BY:	DATE:
NO. 000	REV. 00	DATE:	REVISION:

**REGISTERED LANDSCAPE ARCHITECT**  
CERTIFICATE NO. 36734  
MARK E. FELLINGER  
Date 12/19/19  
Signed...  
ARIZONA, U.S.A.

UV1801921  
OV1600944, OV12-03-20  
R  
RIVERS EDGE (MELCOR) PLANNED AREA DEVELOPMENT #7

**RW-02**

SHEET 2 OF 2