

GENERAL NOTES

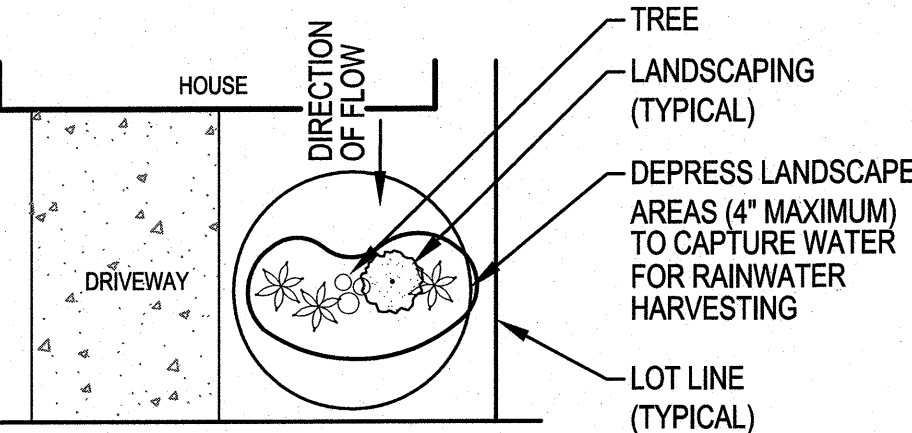
1. TOTAL AREA OF ALL NEW IMPERVIOUS SURFACES INCLUDING PAVEMENTS, SIDEWALKS, HARDSCAPE AND BUILDINGS IS 2.08 AC (90,722 S.F.)
2. TOTAL VOLUME OF RAINWATER HARVESTING PROVIDED IS 5,190 CUBIC FEET.
3. RAINWATER HARVESTING MEASURES EMPLOYED FOR THIS DEVELOPMENT CONSISTS OF THE FOLLOWING:
 - RAINWATER HARVESTING BASINS
 - DEPRESSED LANDSCAPE AREAS
4. ALL RAINWATER HARVESTING MEASURES SHOWN ON THIS PLAN SHALL BE INTERGRATED INTO THE LANDSCAPE INSTALLATION AS WELL AS THE SITE GRADING CONSTRUCTION.
5. ALL LOTS TO BE GRADED IN ACCORDANCE WITH THE TYPICAL FRONT YARD WATER HARVESTING DETAIL BELOW. DRIVEWAY AND LANDSCAPING MAY BE MIRRORED.
6. EIGHTY (80) PERCENT OF ALL AREAS WITHIN LINEAR BUFFER YARDS, RECREATION AREAS AND COMMON AREAS TO BE GRADED TO A MINIMUM FOUR (4) INCHES FOR RAINWATER HARVESTING PURPOSES.
7. ONLY THE LOT GRADING SCHEME(S) IDENTIFIED WITHIN THE APPLICABLE GRADING SCHEME TABLE ON SHEET 2 SHALL BE OFFERED TO THE INDIVIDUAL HOME BUYER FOR EACH LOT LISTED.
8. AT CULVERT INLETS, PROVIDE APPROX. 40' L X 20' W X 4" DEEP RECESSED WATER HARVESTING BASIN

RAINWATER HARVESTING REQUIRED

AREA IMPERVIOUS COVER (AC) X 3,000 GAL/AC = VOLUME REQUIRED (GAL)
2.08 AC X 3,000 GAL/AC = 6,240 GALLONS = 834 CUBIC FEET

RAINWATER HARVESTING PROVIDED

Basin 1.1: 24,370 GALLONS = 3,258 C.F.
Basin 1.3: 14,444 GALLONS = 1,931 C.F.



TYPICAL FRONT YARD WATER HARVESTING
SCALE: NTS

OWNER
LA CHOLLA 311 PROPERTY LLC
ATTN: JAMES KAI
PO BOX 2305
CORTARO, AZ 85652
(520) 791-2409
JAMESKAI@KAIENTERPRISES.COM

DEVELOPER
RICHMOND AMERICAN HOMES
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3091 W. INA ROAD
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(520) 229-5432
PAULA.HINMAN@MDCH.COM

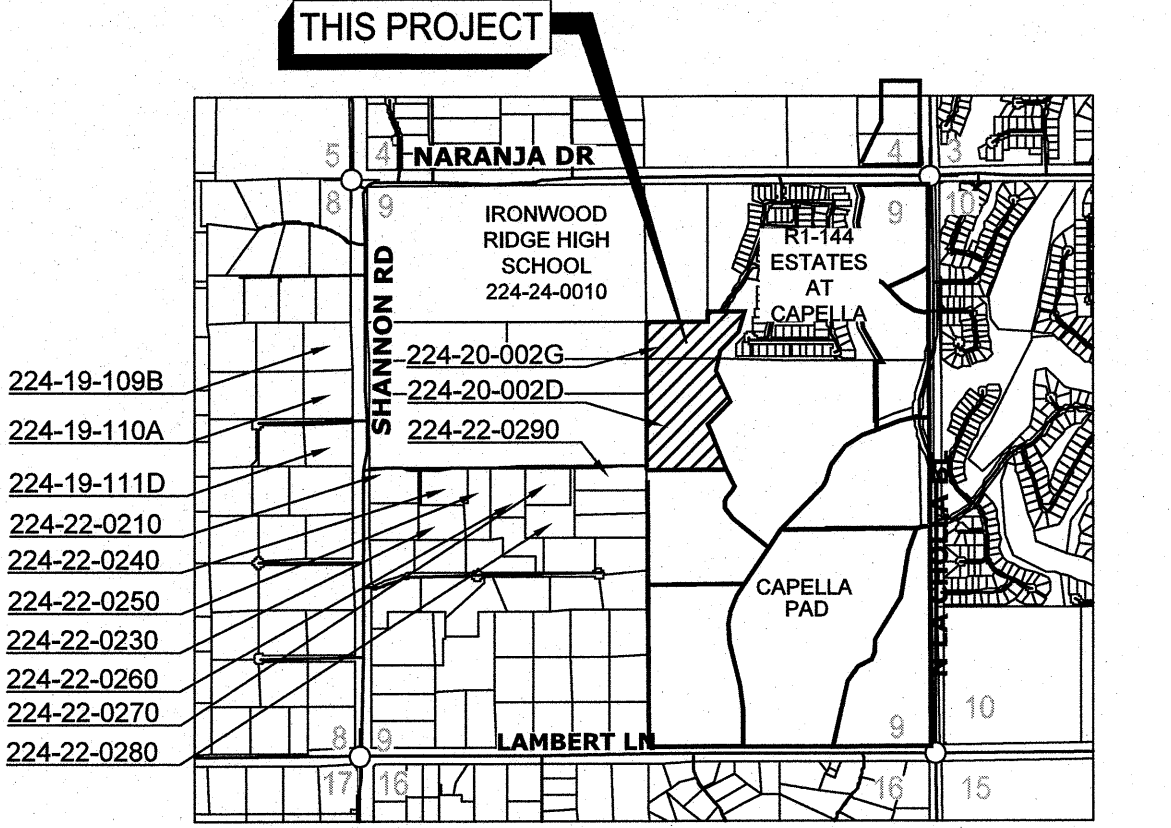
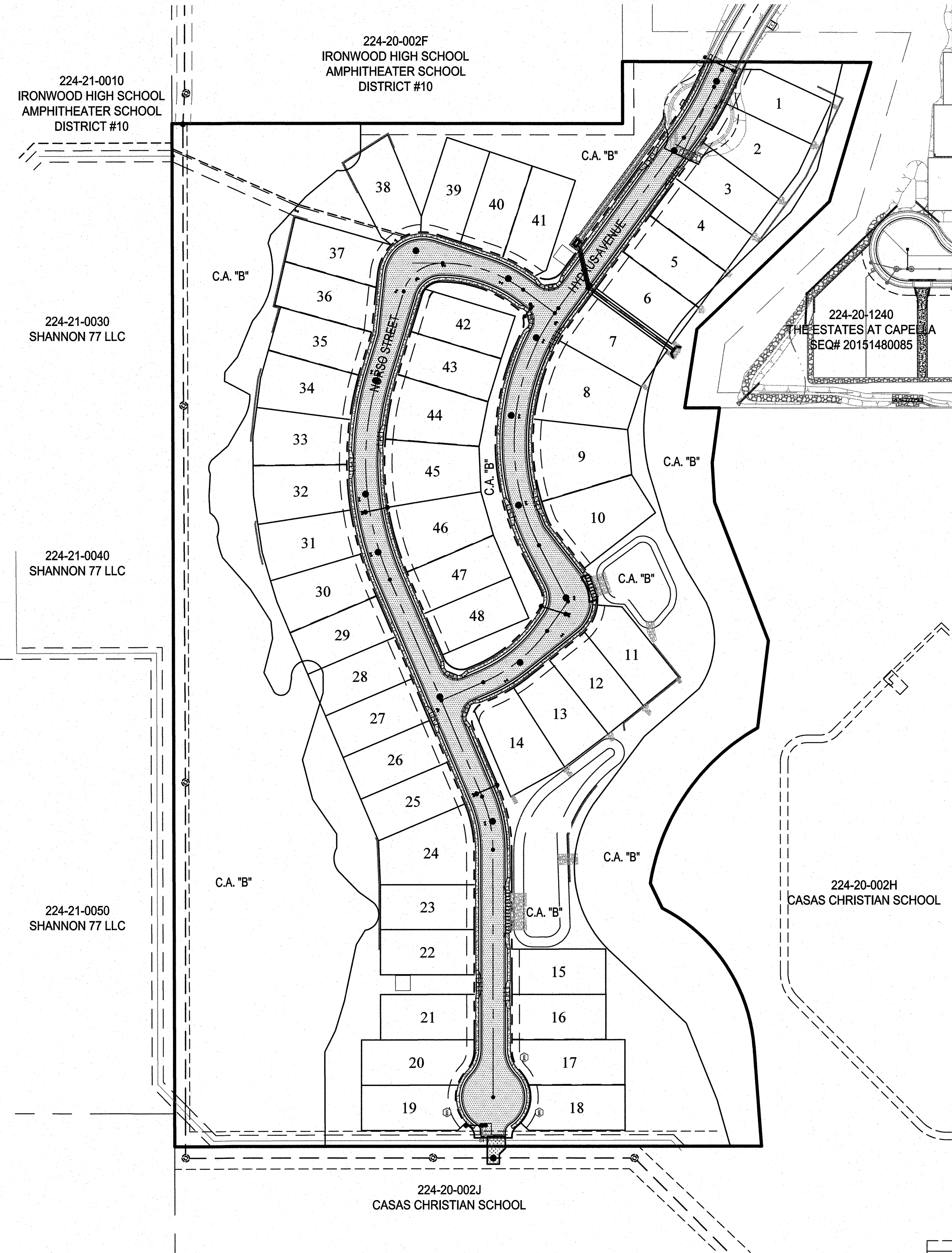
ENGINEER
THE WLB GROUP, INC.
4444 E. BROADWAY BLVD.
TUCSON, AZ. 85711
(520) 881-7480
ATTN: DAVID LITTLE, PE
DLITTLE@WLBGROUP.COM

LANDSCAPE ARCHITECT
THE WLB GROUP, INC.
4444 E. BROADWAY BLVD.
TUCSON, AZ. 85711
PHONE: (520) 881-7480
ATTN: GARY GRIZZLE
GGRIZZLE@WLBGROUP.COM

SHEET INDEX

SHEET 1	COVER SHEET
SHEET 2	DETAILS AND PLANT LEGEND
SHEET 3	SITE PLAN
SHEET 4	SITE PLAN

RAINWATER HARVESTING PLAN
CAPELLA PARCEL M



LOCATION MAP
A PORTION OF THE NORTHEAST QUARTER OF SECTION 9,
T. 12 S., R. 13 E., G&SRB, TOWN OF ORO VALLEY,
PIMA COUNTY, ARIZONA
SCALE: 3\"/>

LEGEND

EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED 100-YEAR FLOODPLAIN LINE
PROPOSED EROSION HAZARD SETBACK LINE

SECTION LINE
PROJECT BOUNDARY
PROPOSED RIGHT-OF-WAY
PROPOSED LOT LINE
EASEMENT LINE AS NOTED
SIGHT VISIBILITY TRIANGLE (SVT)

EXISTING PAVEMENT
EXISTING FENCE
PROPOSED CULVERT

EXISTING PUBLIC SEWER LINE & MANHOLE
EXISTING PUBLIC WATERLINE & VALVE

NEW PUBLIC SEWER LINE & MANHOLE
NEW HCS & CLEANOUT

PROPOSED PUBLIC WATERLINE & VALVE
PROPOSED WATER METER
PROPOSED PUBLIC WATERLINE BENDS
PROPOSED FIRE HYDRANT
PROPOSED TEP EQUIPMENT
PROPOSED STORM DRAIN W/CATCH BASIN

PROPOSED ROCK RIPRAP

PROPOSED ASPHALT PAVEMENT
PROPOSED STABILIZED TREATMENT

TOP OF SLOPE (SLOPES < 3:1 UNLESS NOTED)
BOTTOM OF SLOPE
PROPOSED CONCRETE VERTICAL CURB
PROPOSED CONCRETE WEDGE CURB
PROPOSED CONCRETE SIDEWALK
PROPOSED CURB ACCESS RAMPS

FFE: PROPOSED FINISHED FLOOR ELEVATION
FPE: PROPOSED FINISHED PAD ELEVATION
SHEET MATCH LINE

CONCENTRATION POINT
FLOW DIRECTION
CHANNEL SECTION

DTL: NO
SHT. NO
TYPICAL CROSS SEC. CALL OUT

GRADING LIMITS
ALL WEATHER DRIVABLE SURFACE

LOT GRADING TYPE
NEW SURVEY MONUMENT
SECTION CORNER OR 1/4 SECTION CORNER

BENCHMARK
GRADE BREAK (GB/HP/LP)
DRIVEWAY SIDE FOR SLOPED LOT/ROAD
BACKWATER VALVE

SHEET NUMBER DESIGNATION

PROPOSED RETAINING WALL
PROPOSED BANK PROTECTION

APPROVAL

PLANNING & ZONING ADMINISTRATOR _____ DATE _____

TOWN ENGINEER _____ DATE _____

PROJECT LAYOUT
SCALE 1\"/>



PROJECT NO:
RELATED CASE #s
011601793

The **WLB** Group Inc.

Engineering Planning Surveying
Landscape Architecture Urban Design
Offices located in Tucson, Phoenix and
Flagstaff, Arizona, and Las Vegas, Nevada.
4444 East Broadway
Tucson, Arizona (520) 881-7480

CAPELLA PARCEL M

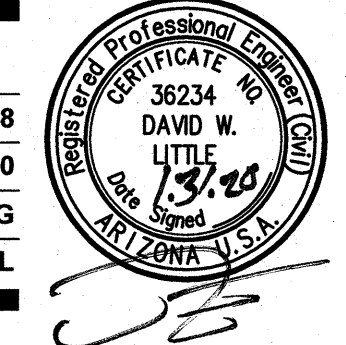
LOTS 1 THRU 48 AND COMMON AREAS A & B
A PORTION OF SECTION 9, T12S, R13E, G&SRM TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA

Sheet Title
RAINWATER HARVESTING PLAN

File: Q:\1100281A-008 Parcel M Platting\02 Landscape\110 RWHP\116028-CAPELLA M-RWHP_01 cover.dwg Plot Date: 1/31/2020 2:20 PM By: gguderian

No.	Date	Item

Scale
Job No. 1160281A-008
Date JANUARY 2020
Designed By DWD/GJG
Checked By DWL



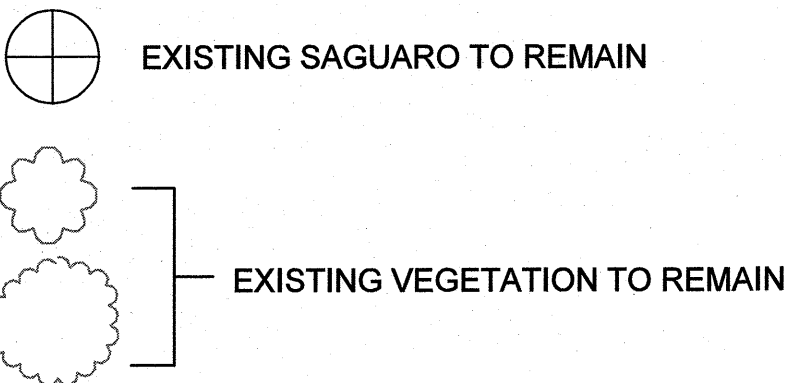
Sheet 1
of 4

PLANT MATERIAL / WATER USE SCHEDULE

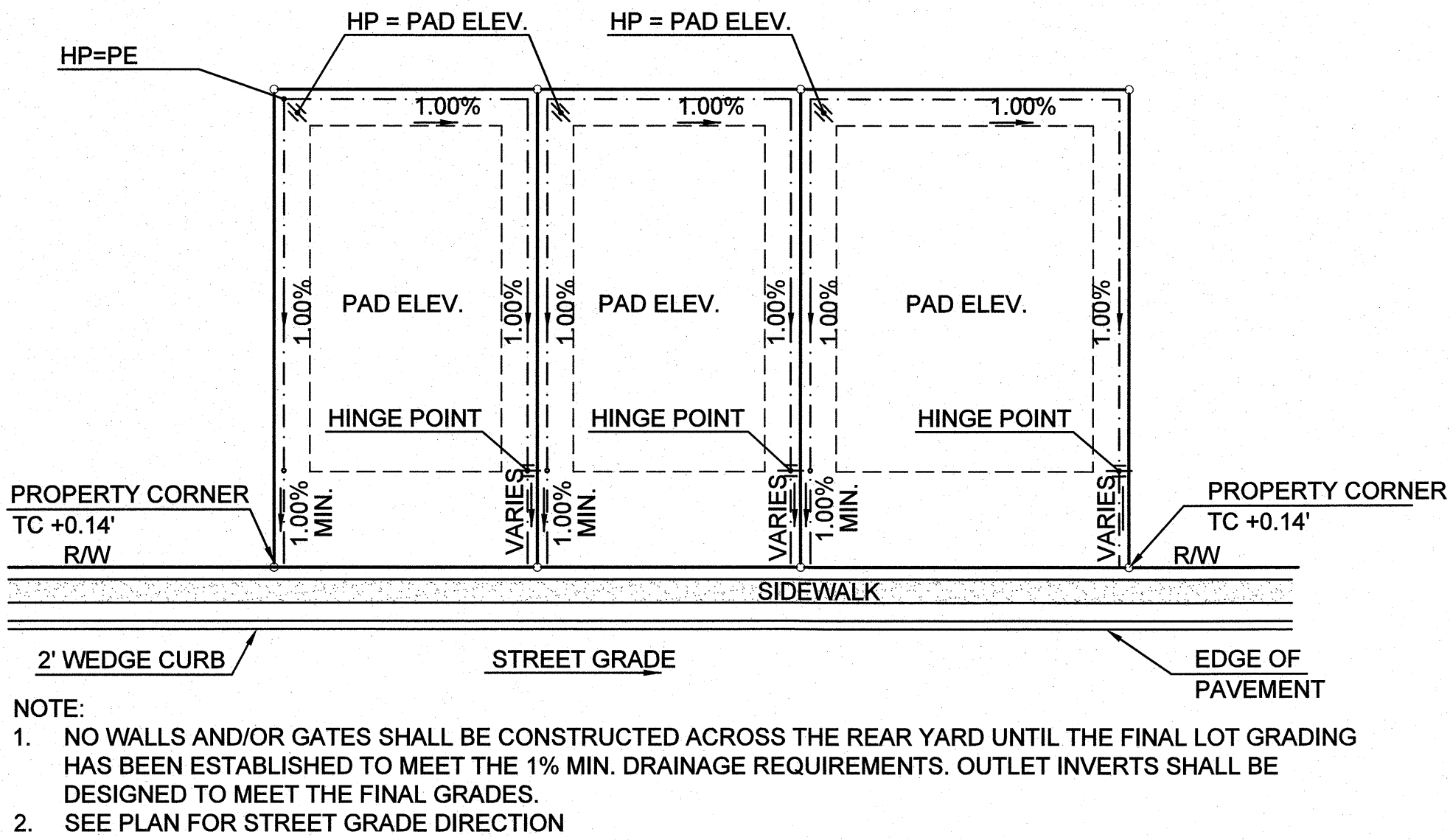
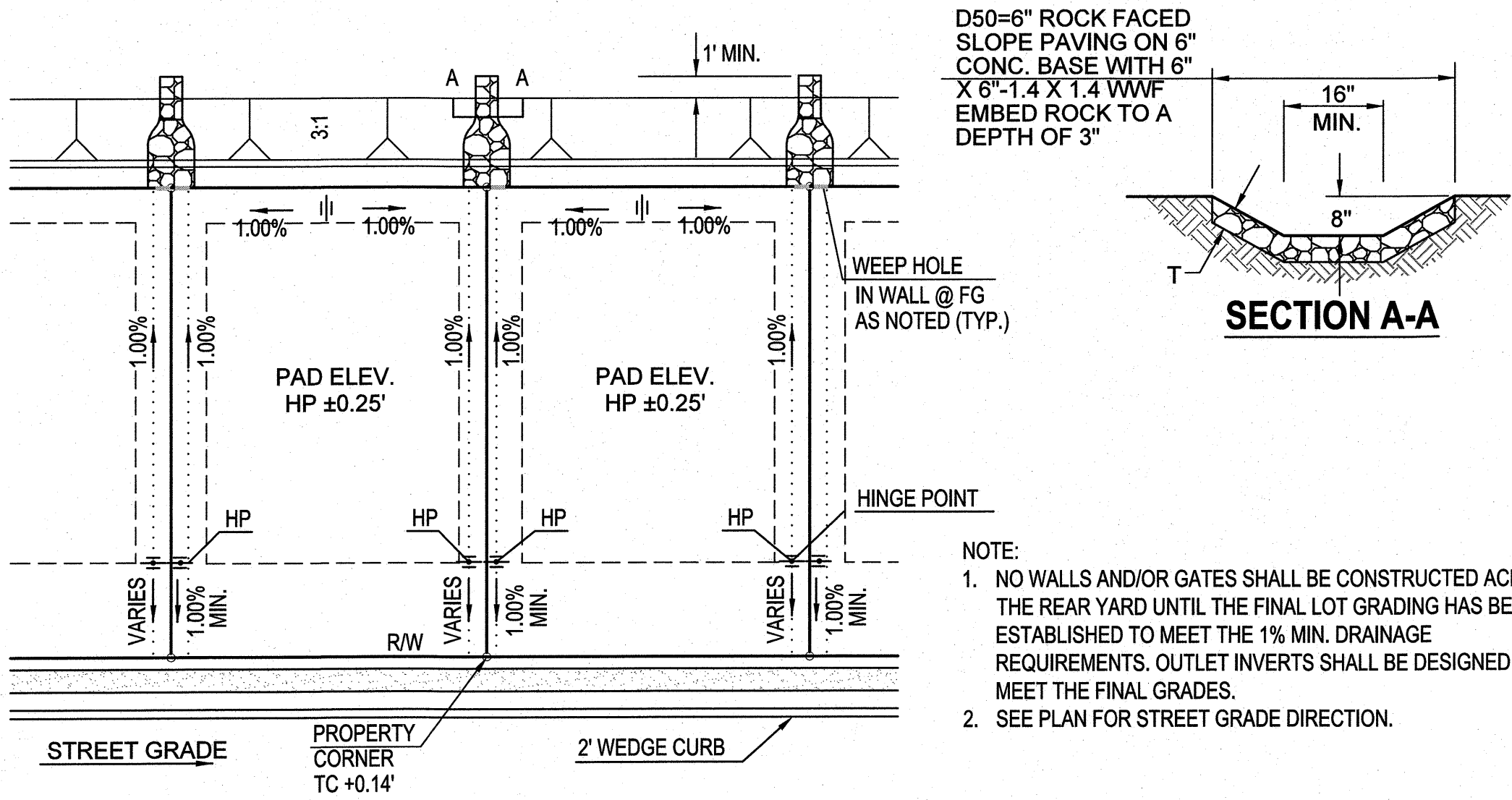
SYMBOL	PLANT NAME	QUANTITY	SIZE	WATER USE TYPE (NEEDS)	ADWR ANNUAL USE AT MATURITY (GALLONS)	ANNUAL WATER USE QUANTITY TIMES ADWR ANNUAL USE (GALLONS)	MONTHLY WATER USE ADWR ANNUAL USE DIVIDED BY 12 MONTHS
	TREES						
CM	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE	23	TRANSPLANT	1	1,754	40,342	3,362
48	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE	1	48" BOX	1	1,754	1,754	146
36	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE	1	36" BOX	1	1,754	1,754	146
	CERCIDIUM MICROPHYLLUM FOOTHILL PALO VERDE	71	15 GALLON	1	1,754	124,534	10,378
DT	OLNEYA TESOTA IRONWOOD	29	TRANSPLANT	1	2,741	79,489	6,624
48	OLNEYA TESOTA IRONWOOD	1	48" BOX	1	2,741	2,741	228
36	OLNEYA TESOTA IRONWOOD	1	36" BOX	1	2,741	2,741	228
	OLNEYA TESOTA IRONWOOD	6	15 GALLON	1	2,741	16,446	1,371
PV	PROSOPIS VELUTINA VELVET MESQUITE	2	TRANSPLANT	2	5,702	11,404	950
48	PROSOPIS VELUTINA VELVET MESQUITE	2	48" BOX	2	5,702	11,404	950
36	PROSOPIS VELUTINA VELVET MESQUITE	2	36" BOX	2	5,702	11,404	950
	PROSOPIS VELUTINA VELVET MESQUITE	41	15 GALLON	2	5,702	233,782	19,482

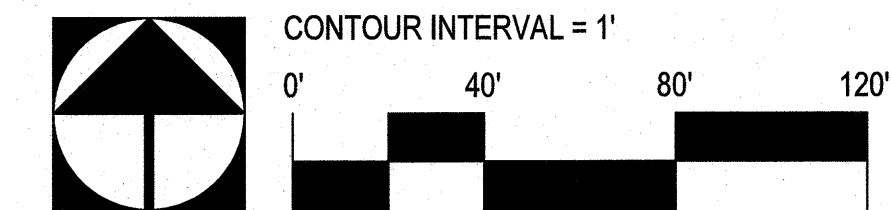
SYMBOL	PLANT NAME	QUANTITY	SIZE	WATER USE TYPE (NEEDS)	ADWR ANNUAL USE AT MATURITY (GALLONS)	ANNUAL WATER USE QUANTITY TIMES ADWR ANNUAL USE (GALLONS)	MONTHLY WATER USE ADWR ANNUAL USE DIVIDED BY 12 MONTHS
	SHRUBS						
48	ACACIA CONSTRICTA WHITETHORN ACACIA	15	TRANSPLANT	1	1,754	26,310	2,193
	ACACIA CONSTRICTA WHITETHORN ACACIA	87	5 GALLON	1	1,754	152,598	12,717
48	ACACIA GREGGII CAT CLAW ACACIA	4	TRANSPLANT	1	1,754	7,016	585
	ACACIA GREGGII CAT CLAW ACACIA	95	5 GALLON	1	1,754	166,630	13,886
	ASCLEPIAS SUBULATA DESERT MILKWEED	9	5 GALLON	2	57	513	43
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER	27	5 GALLON	1	70	1,890	158
	CELTIS PALLIDA DESERT HACKBERRY	5	15 GALLON	2	634	3,170	264
48	CELTIS PALLIDA DESERT HACKBERRY	1	TRANSPLANT	2	634	634	53
	CORDIA PARVIFOLIA LITTLE LEAF CORDIA	33	15 GALLON	1	439	14,487	1,207
	DODONEA VISCOSA GREEN HOPSEED BUSH	11	5 GALLON	1	632	6,952	579
	ENCELIA FARINOSA BRITTLEBUSH	39	5 GALLON	2	101	3,939	328
	JUSTICIA CALIFORNICA CHUPAROSA	30	5 GALLON	2	101	3,030	253
	MAYTENUS PHYLLANTHOIDES MANGLE DULCE	33	5 GALLON	2	158	5,214	435
	SIMMONDSIA CHINENSIS JOJOBA	6	5 GALLON	2	281	1,686	141
48	ZIZYPHUS OBTUSIFOLIA GREYTHORN	3	TRANSPLANT	2	634	1,902	159
	ZIZYPHUS OBTUSIFOLIA GREYTHORN	18	5 GALLON	2	634	11,412	951

PLANT NAME	QUANTITY	SIZE	WATER USE TYPE (NEEDS)	ADWR ANNUAL USE AT MATURITY (GALLONS)	ANNUAL WATER USE QUANTITY TIMES ADWR ANNUAL USE (GALLONS)	MONTHLY WATER USE ADWR ANNUAL USE DIVIDED BY 12 MONTHS
ACCENTS						
AGAVE MURPHEYI MURPHEY'S AGAVE	24	5 GALLON	1	110	2,640	220
CARNEGIEA GIGANTEA SAGUARO	204	TRANSPLANT	1	2,741	559,164	46,597
DASYLIRON WHEELERI DESERT SPOON	25	5 GALLON	1	110	2,750	229
FEROCACTUS WISLIZENII FISH-HOOK BARREL	84	TRANSPLANT	1	10	840	70
FOUQUIERIA SPLENDENS OCOTILLO	19	8-15 CANE MIN.	1	281	5,339	445
TOTAL WATER AT MATURITY					1,475,569	122,964



LOT #	LOT TYPE
1	C
2	C
3	C
4	C
5	C
6	C
7	A
8	A
9	A
10	A
11	C
12	C
13	C
14	C
15	A
16	A
17	A
18	A
19	A
20	A
21	A
22	A
23	A
24	A
25	A
26	A
27	A
28	A
29	A
30	A
31	A
32	A
33	A
34	A
35	A
36	A
37	A
38	A
39	A
40	A
41	A
42	A
43	A
44	A
45	A
46	A
47	A
48	A





224-21-0050
SHANNON 77 LLC

224-20-002H
CASAS CHRISTIAN SCHOOL

BASIN 1.3 (PRIVATE)
 $Q_{100}(IN) = 27.3 \text{ CFS}$
 $Q_{100}(OUT) = 16.4 \text{ CFS}$
TOTAL VOL. = 10,112 cu. ft.
PONDING VOL. = 10,110 cu. ft.
100YR WSEL = 2648.0'
PONDING DEPTH = 2.0'
TOP ELEV: 2648.00'
BOTTOM ELEV: 2646.0'
BASIN DEPTH = 3.0'

BASIN 1.1 (PRIVATE)
 $Q_{100}(IN) = 52.0$ CFS
 $Q_{100}(OUT) = 16.2$ CFS
TOTAL VOL. = 51,423 cu. ft.
PONDING VOL. = 36,062 cu. ft.
100YR WSEL = 2643.1'
PONDING DEPTH = 2.8'
TOP ELEV: 2644.0'
BOTTOM ELEV: 2640.7'
BASIN DEPTH = 3.3'

224-20-002J
CASAS CHRISTIAN SCHOOL

CAPELLA PARCEL M
LOTS 1 THRU 48 AND COMMON AREAS A & B
 A PORTION OF SECTION 9, T12S, R13E, G&SRM TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA

Sheet Title

RAINWATER HARVESTING PLAN

File:Q:\110028\A-008 Parcel M Platting\02 Landscape\10 RWHP\110028-CAPELLA M RWHP 03-04.dwg Plot Date:1/31/2020 2:12 PM By:gguderian

No.	Date	Item	Scale
			Job No. 110028-A-008
			Date JANUARY 2020
			Designed By DWD/GJG
Revisions			Checked By DWL

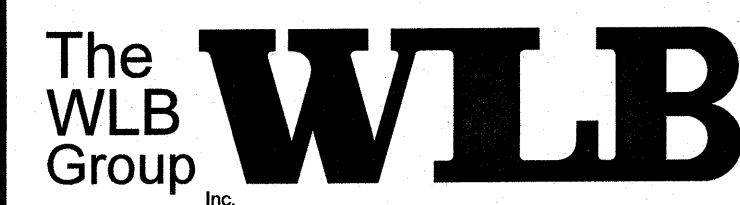
Contact Arizona 811 at least two full working days before you begin excavation.

ARIZONA811
A SHIELDING SERVICE

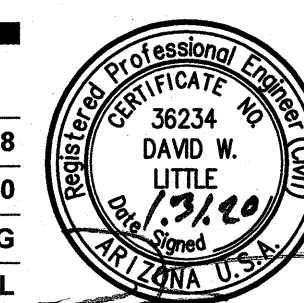
Call 811 or click Arizona811.com

PROJECT NO:
RELATED CASE #s
OV1601793

Sheet **3**
of **4**



**Engineering Planning Surveying
Landscape Architecture Urban Design
Offices located in Tucson, Phoenix and
Flagstaff, Arizona, and Las Vegas, Nevada.**
4444 East Broadway
Tucson, Arizona (520) 881-7480

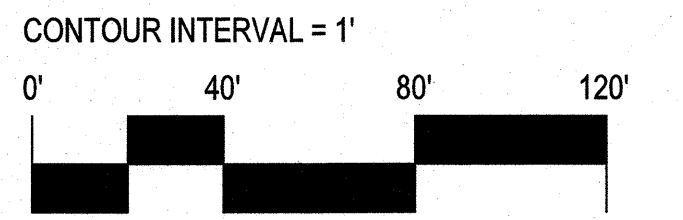
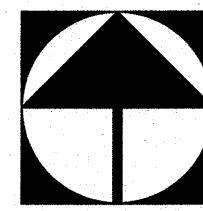


224-21-0010
IRONWOOD HIGH SCHOOL
AMPHITHEATER SCHOOL
DISTRICT #10

224-20-002F
IRONWOOD HIGH SCHOOL
AMPHITHEATER SCHOOL
DISTRICT #10

224-21-0030
SHANNON 77 LLC

224-21-0040
SHANNON 77 LLC



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Scale	110028-A-008
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Checked By	



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of	4