



TABLE 1  
GRADATION FOR BEDDING SAND (ASTM C 33)

SIEVE SIZE	PERCENT PASSING, BY WEIGHT
9.5 MM (3/8-IN)	100
4.75 MM (NO. 4)	95 TO 100
2.36 MM (NO. 8)	80 TO 100
1.18 MM (NO. 16)	50 TO 85
0.60 MM (NO. 30)	25 TO 60
0.30 MM (NO. 50)	5 TO 30
0.15 MM (NO. 100)	0 TO 10
0.075 MM (NO. 200)	LESS THAN 3

TABLE 2  
GRADATION FOR JOINTING SAND (ASTM C 144)

SIEVE SIZE	PERCENT PASSING, BY WEIGHT	
	NATURAL SAND	MANUFACTURED SAND
4.75 MM (NO. 4)	100	100
2.36 MM (NO. 8)	95 TO 100	95 TO 100
1.18 MM (NO. 16)	70 TO 100	70 TO 100
0.60 MM (NO. 30)	40 TO 75	40 TO 75
0.30 MM (NO. 50)	10 TO 35	20 TO 40
0.15 MM (NO. 100)	2 TO 15	10 TO 25
0.075 MM (NO. 200)	0 TO 5	0 TO 10

FORMER CITY STANDARD PLAN NUMBER (2004 EDITION): STD 144-L (SHEET 1 OF 2)

APP.  51568 CITY ENGINEER RCE	11/24/2020 DATE	
		NO.      DATE      DESCRIPTION OF REVISIONS

**CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS**

DRAWN: P. KHARAZMI	<h1 style="margin: 0;">ALLEY INTERLOCKING CONCRETE PAVEMENT SECTION</h1>	STANDARD DRAWING NO. <h1 style="margin: 0;">144</h1> SHEET 1 OF 2
DATE: 11/3/2020		

**NOTES:**

1. SUB GRADE SHALL BE COMPACTED NATIVE MATERIALS TO AT LEAST 90% PER ASTM D 1557. THE EFFECTIVE DEPTH OF COMPACTION SHALL BE AT LEAST THE TOP 12 INCHES.
2. CONCRETE BASE SHALL BE CLASS 560-C-3250 P.C.C.
3. PAVERS SHALL ABUT A STRAIGHT EDGE OF EXISTING P.C.C. OR A.C.; OTHERWISE P.C.C. EDGE RESTRAINTS ARE REQUIRED ALONG THE PERIMETER OF THE PAVERS. CONCRETE EDGE REINFORCED WITH A CONTINUOUS EPOXY COATED #4 BAR AS SHOWN IN THE STANDARD DRAWING. THE INSIDE FACE OF THE EDGE RESTRAINT SHALL BE VERTICAL. EDGE RESTRAINTS SHALL HAVE 1/4-INCH RADII AT THE TOP CORNERS.
4. PAVERS SHALL BE CONSTRUCTED WITH CONCRETE AND SHALL CONFORM TO ASTM C 1272 SPECIFICATION FOR HEAVY VEHICULAR PAVING BRICK.
5. THE MINIMUM PAVER THICKNESS, EXCLUSIVE OF ANY CHAMFERS, SHALL BE 3.15 INCHES (80 MM). THE RATIO OF MAXIMUM PAVER LENGTH TO THICKNESS SHALL BE LESS THAN 3 TO 1. THE MAXIMUM ALLOWABLE CHAMFER SHALL BE 3/16-INCH.
6. PAVER COLOR AND LAYOUT PATTERN SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
7. PAVER PIECE CUT SMALLER THAN 2-INCH X 2-INCH WILL NOT BE ACCEPTED.
8. TOP OF PAVERS SHALL CONFORM TO FINAL DESIGN ELEVATIONS TO THE TOLERANCE SPECIFIED BY THE ENGINEER.
9. IF THE LONGITUDINAL FLOWLINE GRADE IN THE ALLEY IS LESS THAN 0.5 PERCENT, THEN A 2-FOOT WIDE (MINIMUM) GUTTER, 8-INCHES THICK, SHALL BE CONSTRUCTED.

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DRAWN: P. KHARAZMI	<h2 style="margin: 0;">ALLEY INTERLOCKING CONCRETE PAVEMENT SECTION</h2>	STANDARD DRAWING NO. <h1 style="margin: 0;">144</h1> SHEET 2 OF 2
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