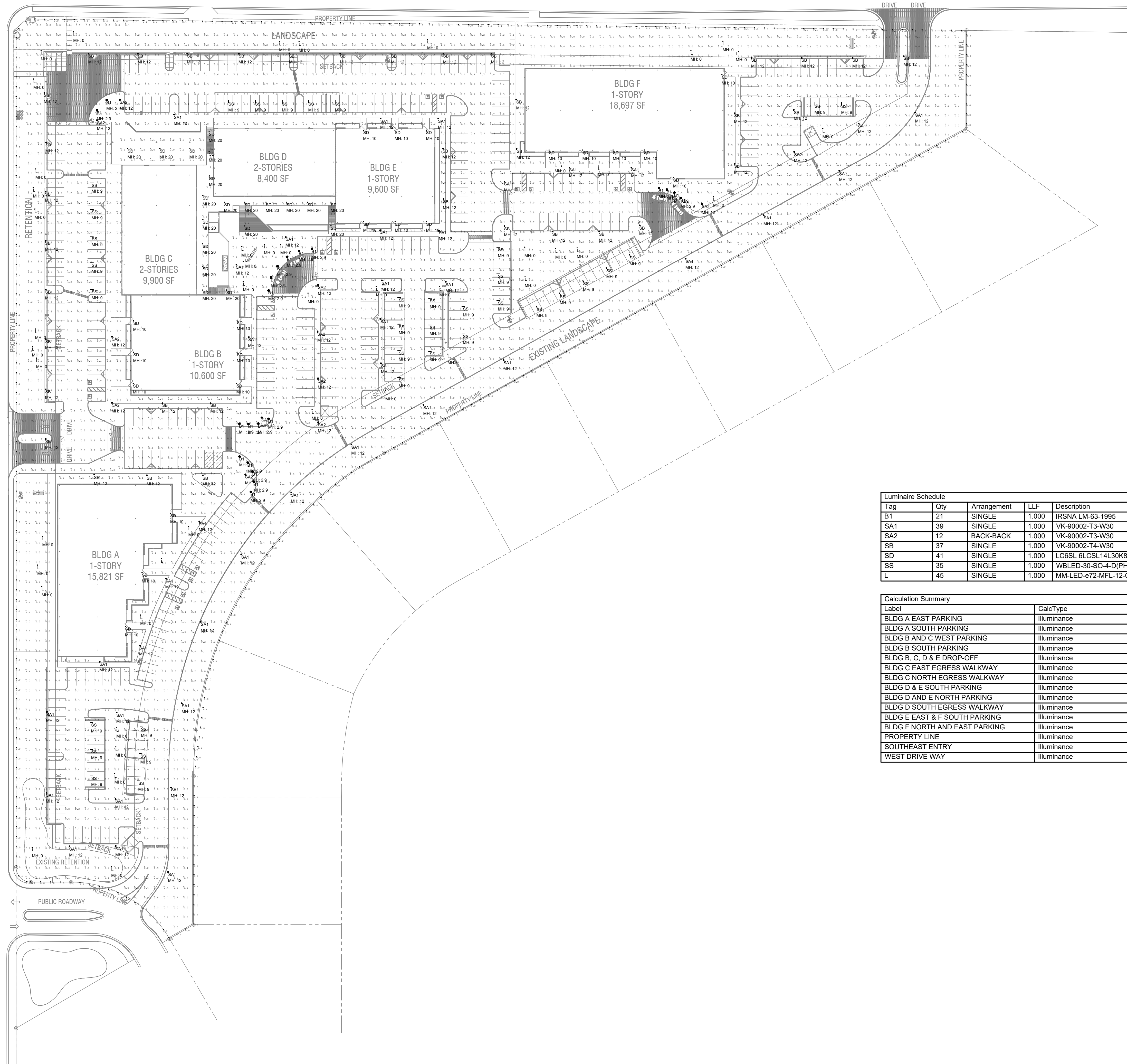


TATUM BOULEVARD

SHEA BOULEVARD



NOTE:
IF POLES LIGHT FIXTURE HEIGHTS LESS THAN 12' ARE USED WE
CREATE HOT SPOTS THAT EXCEED THE PARADISE VALLEY
MAXIMUM OF 1.6 AVERAGE FOOT CANDLE REQUIREMENT FOR
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THE ILLUMINATION ENGINEERING SOCIETY (IES) OF AMERICA
HAS A 0.3 FOOT CANDLE MINIMUM LEVEL FOR SECURITY AND 0.5
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(REFER TO APPLICATIONS SECTION 26 OF THE IES LIGHTING
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HAVE 0.3 FOOT CANDLE MINIMUM STANDARD.

Luminaire Schedule						
Tag	Qty	Arrangement	LLF	Description	Mounting Height Above Finished Grade	Lum. Lumens Color Temp.
B1	21	SINGLE	1.000	IRSNA LM-63-1995	2'-11"	728 3000 k
SA1	39	SINGLE	1.000	VK-90002-T3-W30	12'	4150 3000 k
SA2	12	BACK-BACK	1.000	VK-90002-T3-W30	12'	4150 3000 k
SB	37	SINGLE	1.000	VK-90002-T4-W30	12'	4221 3000 k
SD	41	SINGLE	1.000	LC6SL 6LCSL14L30K8	SEE PLANS	1490 3000 k
SS	35	SINGLE	1.000	WBLED-30-SO-4-D(PHIL54)	9'	1984 3000 k
L	45	SINGLE	1.000	MM-LED-672-MFL-12-C	0' - GROUND MOUNTED	176 3000 k

Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
BLDG A EAST PARKING	Illuminance	Fc	1.27	9.4	0.0
BLDG A SOUTH PARKING	Illuminance	Fc	1.07	8.8	0.0
BLDG B AND C WEST PARKING	Illuminance	Fc	1.59	9.2	0.1
BLDG B SOUTH PARKING	Illuminance	Fc	1.58	8.1	0.1
BLDG B, C, D & E DROP-OFF	Illuminance	Fc	2.20	11.7	0.4
BLDG C EAST EGRESS WALKWAY	Illuminance	Fc	4.80	10.3	1.0
BLDG C NORTH EGRESS WALKWAY	Illuminance	Fc	1.83	3.7	0.7
BLDG D & E SOUTH PARKING	Illuminance	Fc	1.59	11.2	0.0
BLDG D AND E NORTH PARKING	Illuminance	Fc	1.57	12.9	0.0
BLDG D SOUTH EGRESS WALKWAY	Illuminance	Fc	4.84	9.8	1.5
BLDG E EAST & F SOUTH PARKING	Illuminance	Fc	1.58	11.8	0.0
BLDG F NORTH AND EAST PARKING	Illuminance	Fc	1.21	10.8	0.0
PROPERTY LINE	Illuminance	Fc	0.02	0.2	0.0
SOUTHEAST ENTRY	Illuminance	Fc	2.97	13.2	0.3
WEST DRIVE WAY	Illuminance	Fc	1.43	9.9	0.0

mountain view medical center, LLC
**Mountain View Medical
Center Redevelopment**
10555,10565,10575,10585,10595,10599 N. Tatum Blvd ,
Paradise Valley, Arizona 85253

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PROJECT NO.
2018_041
DATE OF ISSUE
04.16.2019

REVISION NO.
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09.26.2018
11.01.2018
01.22.2019
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04.08.2019

PROJECT TEAM
John Cantrell
DRAWN BY
BD

PROJECT PHASE
SUP major amendment
Review #4

SHEET CONTENTS

photometric site plan
option #1

SHEET NO.

E-1.1

2929 n central ave
eleventh floor
phoenix arizona 85012

602.257.1764 t
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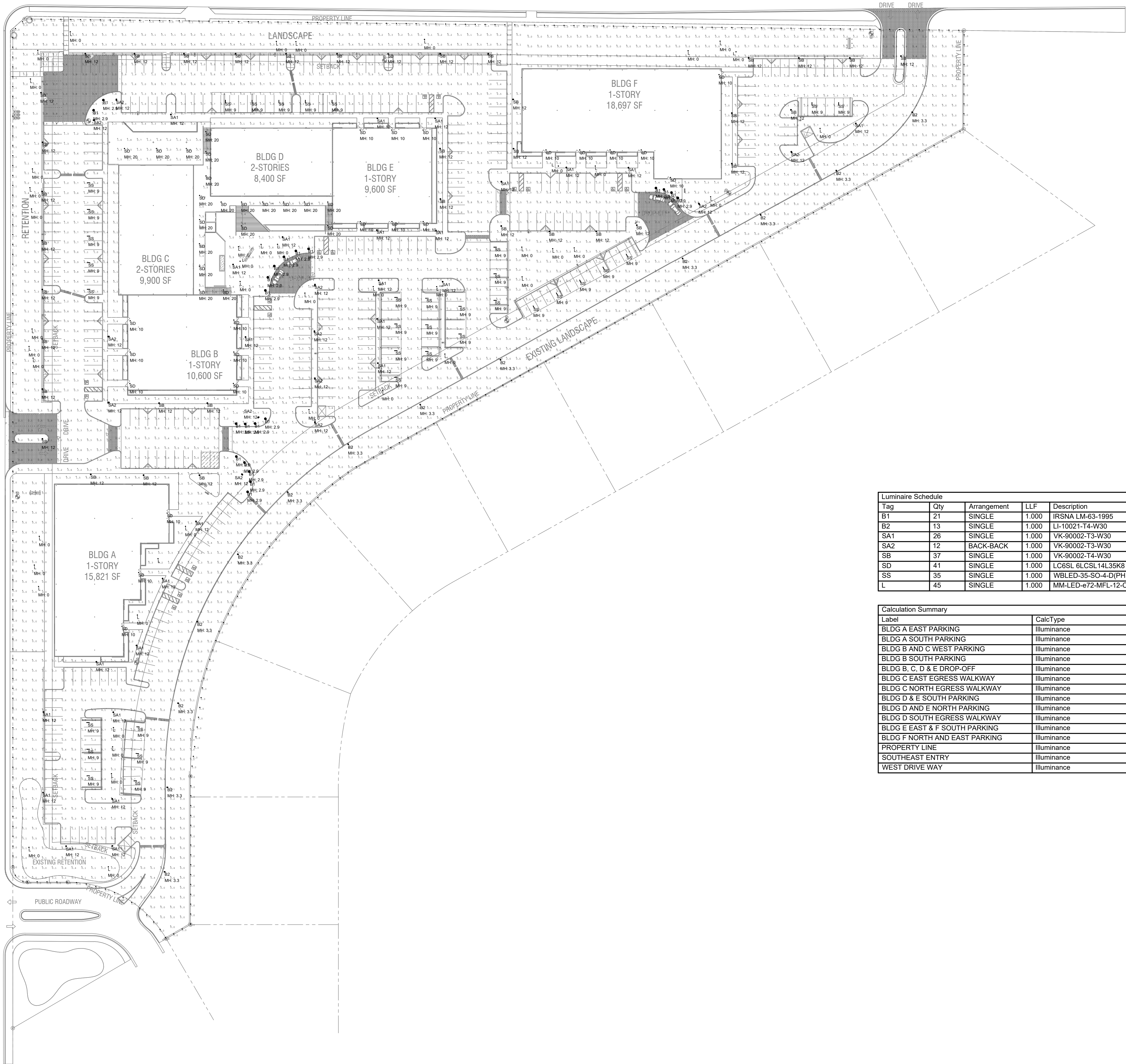


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WWW.HENDERSONENGINEERS.COM
1850003561
AZ CORPORATE NUMBER: 10470-0
EXPIRES 06/30/19

TATUM BOULEVARD

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B2	13	SINGLE	1.000	LI-10021-T4-W30	3'-4"	2232 3000 k
SA1	26	SINGLE	1.000	VK-90002-T3-W30	12'	4150 3000 k
SA2	12	BACK-BACK	1.000	VK-90002-T3-W30	12'	4150 3000 k
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BLDG C NORTH EGRESS WALKWAY	illuminance	Fc	1.83	3.7	0.7
BLDG D & E SOUTH PARKING	illuminance	Fc	1.47	16.9	0.0
BLDG D AND E NORTH PARKING	illuminance	Fc	1.57	12.9	0.0
BLDG D SOUTH EGRESS WALKWAY	illuminance	Fc	4.84	9.8	1.5
BLDG E EAST & F SOUTH PARKING	illuminance	Fc	1.51	11.8	0.0
BLDG F NORTH AND EAST PARKING	illuminance	Fc	1.06	10.8	0.0
PROPERTY LINE	illuminance	Fc	0.02	0.1	0.0
SOUTHEAST ENTRY	illuminance	Fc	2.94	13.2	0.2
WEST DRIVE WAY	illuminance	Fc	1.43	9.9	0.0

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PROJECT TEAM
John Cantrell
DRAWN BY
BD

PROJECT PHASE
SUP major amendment
Review #4

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photometric site plan
option #2

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E-1.2

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LED bollards with unshielded light

Post construction: Constructed of copper-free extruded and die-cast aluminum. Die-castings are marine grade, copper free (a 0.3% copper content) A500.0 aluminum alloy.

Lamp enclosure: Die-cast aluminum post cap with three-ply opal glass diffuser with screw neck. Fully gasketed for weather tight operation using high temperature silicone gasket.

Electrical: 0.2W LED luminaire, 12.5 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming (LED module) are available from factory for easy replacement. Standard LED color temperature is 3000K with a >60 CRI. Available in 4000K (>90 CRI), add suffix K4 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 B24 anchorage kit. Bollard secures to base with one stainless steel set screw. The mounting system allows the luminaire to be adjusted independent of anchor bolt orientation.

Finishes: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK), White (WHT), Bronze (BRZ), Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 11.5 lbs.

Luminaire lumens: 728

Lamp: A = B = 0.2W LED 5% 30% 79117

77743 0.2W LED 5% 30% 79117

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 FAX (805)566-9474 www.bega-us.com
©Copyright BEGA-US 2016 Updated 1/18

1

NTS

Type:
Project:
Color:
Options:
Modified:

77743 0.2W LED 5% 30% 79117

2 LUMINAIRE TYPE "B1" NTS

ULI-10021
Light Linear PT 1 Single Head Bollard

Construction

Aluminum
Less Than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre-paint
8 step degrease and phosphate process that includes degreasing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retention - Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermal build up critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10w surge suppressor provided with all fixtures.

BUG Rating
B1 - LED C1

Finishing
All Ligman products go through an extensive finishing process that includes tefletting to improve paint adherence.

Paint
UV Stabilized 4.5MI thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precision optic design provides exceptional light control and precise distribution of light. LED CRI > 80.

Lumen - Maintenance Life
L80 B10 at 50,000 hours (This means that at least 80% of the LED still achieve 80% of their original flux)

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

HYBRID TYPE I & TYPE IV

Ligman LIGHTING USA

Area distribution bollard-integrated projectors. Stylish but technically precise area lighting solutions as part of a large flexible family.

Light Linear PT1 Bollard is an elegant minimalist bollard that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual waisted optical chamber with integrated heat sinks houses a range of field interchangeable optically controlled LEDs, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements.

An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture.

This product range is available in 29w and 55w options, as single & double head styles.

Customer specific wattages can be provided, contact the factory for more information.

This luminaire complies to Dark Sky requirements. Bollards can be provided with GFC boxes positioned to specific heights specified by the customer.

Internal house size shields are available as an option.

Optional Security Bollard:
The Light Linear Bollard is available as a traffic rated security bollard.

This security bollard provides restraint of vehicular traffic in unauthorized areas.

Impact calculations show this bollard will stop a 5,500lb/75 tons vehicle, travelling at 30mph.

For additional strength, the galvanized pole can be filled with concrete up to the weather proof driver housing to provide a solid concrete barrier.

Additional Options (Consult Factory For Pricing)

SB Security Bollard

RCBW or Static Color Laser Cut Lettering, Logos & Designs (LVT Bollard shown for visual reference)

Ligman can provide custom logos and signage in the Light Linear Bollard. The images above show this feature in the Light Linear VT Bollard.

3 LUMINAIRE TYPE "B2" NTS

ULI-10021
Light Linear PT 1 Single Head Bollard

Beam Options

Type II Distribution Type III Distribution Type IV Distribution

PROJECT DATE

QUANTITY TYPE NOTE

ORDERING EXAMPLE || ULI - 10021 - 29w - T2 - W30 - 02 - 120/27v - Options

LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
29W LED	T2 - Type II Distribution - 2628lm T3 - Type III Distribution - 2650lm T4 - Type IV Distribution - 2650lm	W37 - 2700K W38 - 3000K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	00 - 120V 01 - 277V 02 - 347V 03 - 480V 04 - 575V 05 - 600V 06 - 720V 07 - 800V 08 - 900V 09 - 1000V 10 - 1200V 11 - 1380V 12 - 1500V 13 - 1650V 14 - 1800V 15 - 2000V 16 - 2200V 17 - 2400V 18 - 2600V 19 - 2800V 20 - 3000V 21 - 3200V 22 - 3400V 23 - 3600V 24 - 3800V 25 - 4000V 26 - 4200V 27 - 4400V 28 - 4600V 29 - 4800V 30 - 5000V 31 - 5200V 32 - 5400V 33 - 5600V 34 - 5800V 35 - 6000V 36 - 6200V 37 - 6400V 38 - 6600V 39 - 6800V 40 - 7000V 41 - 7200V 42 - 7400V 43 - 7600V 44 - 7800V 45 - 8000V 46 - 8200V 47 - 8400V 48 - 8600V 49 - 8800V 50 - 9000V 51 - 9200V 52 - 9400V 53 - 9600V 54 - 9800V 55 - 10000V 56 - 10200V 57 - 10400V 58 - 10600V 59 - 10800V 60 - 11000V 61 - 11200V 62 - 11400V 63 - 11600V 64 - 11800V 65 - 12000V 66 - 12200V 67 - 12400V 68 - 12600V 69 - 12800V 70 - 13000V 71 - 13200V 72 - 13400V 73 - 13600V 74 - 13800V 75 - 14000V 76 - 14200V 77 - 14400V 78 - 14600V 79 - 14800V 80 - 15000V 81 - 15200V 82 - 15400V 83 - 15600V 84 - 15800V 85 - 16000V 86 - 16200V 87 - 16400V 88 - 16600V 89 - 16800V 90 - 17000V 91 - 17200V 92 - 17400V 93 - 17600V 94 - 17800V 95 - 18000V 96 - 18200V 97 - 18400V 98 - 18600V 99 - 18800V 100 - 19000V 101 - 19200V 102 - 19400V 103 - 19600V 104 - 19800V 105 - 20000V 106 - 20200V 107 - 20400V 108 - 20600V 109 - 20800V 110 - 21000V 111 - 21200V 112 - 21400V 113 - 21600V 114 - 21800V 115 - 22000V 116 - 22200V 117 - 22400V 118 - 22600V 119 - 22800V 120 - 23000V 121 - 23200V 122 - 23400V 123 - 23600V 124 - 23800V 125 - 24000V 126 - 24200V 127 - 24400V 128 - 24600V 129 - 24800V 130 - 25000V 131 - 25200V 132 - 25400V 133 - 25600V 134 - 25800V 135 - 26000V 136 - 26200V 137 - 26400V 138 - 26600V 139 - 26800V 140 - 27000V 141 - 27200V 142 - 27400V 143 - 27600V 144 - 27800V 145 - 28000V 146 - 28200V 147 - 28400V 148 - 28600V 149 - 28800V 150 - 29000V 151 - 29200V 152 - 29400V 153 - 29600V 154 - 29800V 155 - 30000V 156 - 30200V 157 - 30400V 158 - 30600V 159 - 30800V 160 - 31000V 161 - 31200V 162 - 31400V 163 - 31600V 164 - 31800V 165 - 32000V 166 - 32200V 167 - 32400V 168 - 32600V 169 - 32800V 170 - 33000V 171 - 33200V 172 - 33400V 173 - 33600V 174 - 33800V 175 - 34000V 176 - 34200V 177 - 34400V 178 - 34600V 179 - 34800V 180 - 35000V 181 - 35200V 182 - 35400V 183 - 35600V 184 - 35800V 185 - 36000V 186 - 36200V 187 - 36400V 188 - 36600V 189 - 36800V 190 - 37000V 191 - 37200V 192 - 37400V 193 - 37600V 194 - 37800V 195 - 38000V 196 - 38200V 197 - 38400V 198 - 38600V 199 - 38800V 200 - 39000V 201 - 39200V 202 - 39400V 203 - 39600V 204 - 39800V 205 - 40000V 206 - 40200V 207 - 40400V 208 - 40600V 209 - 40800V 210 - 41000V 211 - 41200V 212 - 41400V 213 - 41600V 214 - 41800V 215 - 42000V 216 - 42200V 217 - 42400V 218 - 42600V 219 - 42800V 220 - 43000V 221 - 43200V 222 - 43400V 223 - 43600V 224 - 43800V 225 - 44000V 226 - 44200V 227 - 44400V 228 - 44600V 229 - 44800V 230 - 45000V 231 - 45200V 232 - 45400V 233 - 45600V 234 - 45800V 235 - 46000V 236 - 46200V 237 - 46400V 238 - 46600V 239 - 46800V 240 - 47000V 241 - 47200V 242 - 47400V 243 - 47600V 244 - 47800V 245 - 48000V 246 - 48200V 247 - 48400V 248 - 48600V 249 - 48800V 250 - 49000V 251 - 49200V 252 - 49400V 253 - 49600V 254 - 49800V 255 - 50000V 256 - 50200V 257 - 50400V 258 - 50600V 259 - 50800V 260 - 51000V 261 - 51200V 262 - 51400V 263 - 51600V 264 - 51800V 265 - 52000V 266 - 52200V 267 - 52400V 268 - 52600V 269 - 52800V 270 - 53000V 271 - 53200V 272 - 53400V 273 - 53600V 274 - 53800V 275 - 54000V 276 - 54200V 277 - 54400V 278 - 54600V 279 - 54800V 280 - 55000V 281 - 55200V 282 - 55400V 283 - 55600V 284 - 55800V 285 - 56000V 286 - 56200V 287 - 56400V 288 - 56600V 289 - 56800V 290 - 57000V 291 - 57200V 292 - 57400V 293 - 57600V 294 - 57800V 295 - 58000V 296 - 58200V 297 - 58400V 298 - 58600V 299 - 58800V 300 - 59000V 301 - 59200V 302 - 59400V 303 - 59600V 304 - 59800V 305 - 60000V 306 - 60200V 307 - 60400V 308 - 60600V 309 - 60800V 310 - 61000V 311 - 61200V 312 - 61400V 313 - 61600V 314 - 61800V 315 - 62000V 316 - 62200V 317 - 62400V 318 - 62600V 319 - 62800V 320 - 63000V 321 - 63200V 322 - 63400V 323 - 63600V 324 - 63800V 325 - 64000V 326 - 64200V 327 - 64400V 328 - 64600V 329 - 64800V 330 - 65000V 331 - 65200V 332 - 65400V 333 - 65600V 334 - 65800V 335 - 66000V 336 - 66200V 337 - 66400V 338 - 66600V 339 - 66800V 340 - 67000V 341 - 67200V 342 - 67400V 343 - 67600V 344 - 67800V 345 - 68000V 346 - 68200V 347 - 68400V 348 - 68600V 349 - 68800V 350 - 69000V 351 - 69200V 352 - 69400V 353 - 69600V 354 - 69800V 355 - 70000V 356 - 70200V 357 - 70400V 358 - 70600V 359 - 70800V 360 - 71000V 361 - 71200V 362 - 71400V 363 - 71600V 364 - 71800V 365 - 72000V 366 - 72200V 367 - 72400V 368 - 72600V 369 - 72800V 370 - 73000V 371 - 73200V 372 - 73400V 373 - 73600V 374 - 73800V 375 - 74000V 376 - 74200V 377 - 74400V 378 - 74600V 379 - 74800V 380 - 75000V 381 - 75200V 382 - 75400V 383 - 75600V 384 - 75800V 385 - 76000V 386 - 76200V 387 - 76400V 388 - 76600V 389 - 76800V 390 - 77000V 391 - 77200V 392 - 77400V 393 - 77600V 394 - 77800V 395 - 78000V 396 - 78200V 397 - 78400V 398 - 78600V 399 - 78800V 400 - 79000V 401 - 79200V 402 - 79400V 403 - 79600V 404 - 79800V 405 - 80000V 406 - 80200V 407 - 80400V 408 - 80600V 409 - 80800V 410 - 81000V 411 - 81200V 412 - 81400V 413 - 81600V 414 - 81800V 415 - 82000V 416 - 82200V 417 - 82400V 418 - 82600V 419 - 82800V 420 - 83000V 421 - 83200V 422 - 83400V 423 - 83600V 424 - 83800V 425 - 84000V 426 - 84200V 427 - 84400V 428 - 84600V 429 - 84800V 430 - 85000V 431 - 85200V 432 - 85400V 433 - 85600V 434 - 85800V 435 - 86000V 436 - 86200V 437 - 86400V 438 - 86600V 439 - 86800V 440 - 87000V 441 - 87200V 442 - 87400V 443 - 87600V 444 - 87800V 445 - 88000V 446 - 88200V 447 - 88400V 448 - 88600V 449 - 88800V 450 - 89000V 451 - 89200V 452 - 89400V 453 - 89600V 454 - 89800V 455 - 90000V 456 - 90200V 457 - 90400V 458 - 90600V 459 - 90800V 460 - 91000V 461 - 91200V 462 - 91400V 463 - 91600V 464 - 91800V 465 - 92000V 466 - 92200V 467 - 92400V 468 - 92600V 469 - 92800V 470 - 93000V 471 - 93200V 472 - 93400V 473 - 93600V 474 - 93800V 475 - 94000V 476 - 94200V 477 - 94400V 478 - 94600V 479 - 94800V 480 - 95000V 481 - 95200V 482 - 95400V 483 - 95600V 484 - 95800V 485 - 96000V 486 - 96200V 487 - 96400V 488 - 96600V 489 - 96800V 490 - 97000V 491 - 97200V 492 - 97400V 493 - 97600V 494 - 97800V 495 - 98000V 496 - 98200V 497 - 98400V 498 - 98600V 499 - 98800V 500 - 99000V 501 - 99200V 502 - 99400V 503 - 99600V 504 - 99800V 505 - 100000V 506 - 100200V 507 - 100400V 508 - 100600V 509 - 100800V 510 - 101000V 511 - 101200V 512 - 101400V 513 - 101600V 514 - 101800V 515 - 102000V 516 - 102200V 517 - 102400V 518 - 102600V 519 - 102800V 520 - 103000V 521 - 103200V 522 - 103400V 523 - 103600V 524 - 103800V 525 - 104000V 526 - 104200V 527 - 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