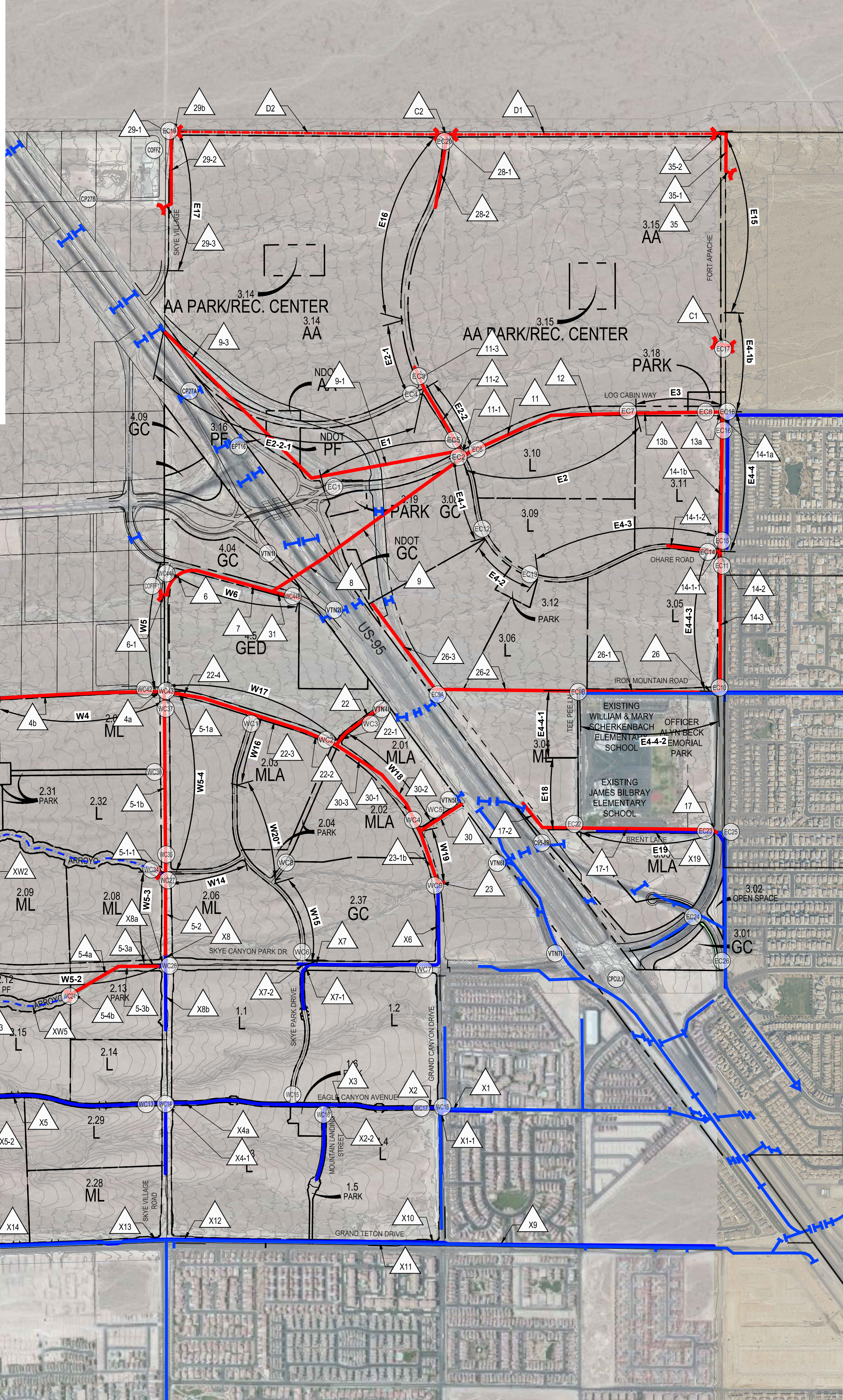


| FACILITY HYDRAULICS SUMMARY TABLE |                    |             |                |                  |                    |                            |
|-----------------------------------|--------------------|-------------|----------------|------------------|--------------------|----------------------------|
| NETWORK                           | STREET ID          | FACILITY ID | FACILITY TYPE  | DESIGN FLOW RATE | PROPOSED FLOW RATE | COMMENTS                   |
| EX. SD                            | EAGLE CANYON       | X1          | 8" x 6" RCB    | 800 CFS          | 787 CFS            |                            |
| EX. SD                            | GRAND CANYON       | X1-1        | 48" RCP        | 100 CFS          | 84 CFS             |                            |
| EX. SD                            | EAGLE CANYON       | X2          | 8" x 6" RCB    | 729 CFS          | 695 CFS            |                            |
| EX. SD                            | MOUNTAIN LANDING   | X2-2        | 48" RCP        | 110 CFS          | 106 CFS            |                            |
| EX. SD                            | EAGLE CANYON       | X3          | 72" RCP        | 728 CFS          | 695 CFS            |                            |
| EX. SD                            | SKYE VILLAGE       | X4-1        | 42" RCP        | 117 CFS          | 140 CFS            |                            |
| EX. SD                            | EAGLE CANYON       | X4a         | 72" RCP        | 477 CFS          | 485 CFS            |                            |
| EX. SD                            | EAGLE CANYON       | X5          | 48" RCP        | 216 CFS          | 226 CFS            |                            |
| EX. SD                            | EAGLE CREST        | X5-2        | 42" RCP        | 90 CFS           | 90 CFS             |                            |
| EX. SD                            | GRAND CANYON DRIVE | X6          | 6" x 6" RCB    | 197 CFS          | 197 CFS            |                            |
| EX. SD                            | HORSE              | X7          | 42" RCP        | 92 CFS           | 92 CFS             |                            |
| EX. SD                            | SKYE PARK          | X7-1        | 36" RCP        | 47 CFS           | 47 CFS             |                            |
| EX. SD                            | HORSE              | X8          | 24" RCP        | 6 CFS            | 6 CFS              |                            |
| EX. SD                            | SKYVILLAGE RD      | X9a         | 6" x 6" RCB    | 367 CFS          | 413 CFS            |                            |
| EX. SD                            | SKYVILLAGE RD      | X9b         | 60" RCP        | 324 CFS          | 413 CFS            |                            |
| EX. SD                            | SKYE VILLAGE       | X9b         | 36" RCP        | 43 CFS           | 43 CFS             |                            |
| EX. SD                            | GRAND TETON        | X9          | 10" x 5" RCB   | 690 CFS          | 690 CFS            | MPV FACILITY CNGT-0043     |
| EX. SD                            | GRAND TETON        | X10         | 10" x 5" RCB   | 690 CFS          | 690 CFS            | MPV FACILITY CNGT-0043     |
| EX. SD                            | GRAND TETON        | X11         | 6" x 6" RCB    | 646 CFS          | 646 CFS            | MPV FACILITY CNGT-0043     |
| EX. SD                            | GRAND TETON        | X12         | 6" x 6" RCB    | 646 CFS          | 646 CFS            | MPV FACILITY CNGT-0043     |
| EX. SD                            | GRAND TETON        | X13         | 6" x 6" RCB    | 484 CFS          | 484 CFS            | MPV FACILITY CNGT-0118     |
| EX. SD                            | GRAND TETON        | X14         | 6" x 6" RCB    | 484 CFS          | 484 CFS            | MPV FACILITY CNGT-0118     |
| EX. SD                            | GRAND TETON        | X15         | 6" x 6" RCB    | 488 CFS          | 488 CFS            | MPV FACILITY CNGT-0118     |
| EX. SD                            | GRAND TETON        | X16         | 6" x 6" RCB    | 363 CFS          | 363 CFS            | MPV FACILITY CNGT-0118     |
| EX. SD                            | SHAUMBER           | X17         | 36" RCP        | 56 CFS           | 56 CFS             | MPV FACILITY CNGT-0118     |
| EX. SD                            | EAGLE CANYON       | X18         | 48" RCP        | 128 CFS          | 99 CFS             | MPV FACILITY CNGT-0118     |
| EX. SD                            | DB1 COLLECTOR      | X19         | CONC TRAP CHNL | 471 CFS          | 471 CFS            | TO BE CONSTRUCTED WITH DB1 |
| ARROYO WASH                       | EX. ARROYO WASH    | XW1         | NATURAL WASH   | 120 CFS          | 120 CFS            |                            |
| ARROYO WASH                       | EX. ARROYO WASH    | XW2         | NATURAL WASH   | 404 CFS          | 404 CFS            |                            |
| ARROYO WASH                       | EX. ARROYO WASH    | XW3         | NATURAL WASH   | 94 CFS           | 94 CFS             |                            |
| ARROYO WASH                       | EX. ARROYO WASH    | XW4         | NATURAL WASH   | 308 CFS          | 308 CFS            |                            |
| ARROYO WASH                       | EX. ARROYO WASH    | XW5         | NATURAL WASH   | 385 CFS          | 385 CFS            |                            |



| FACILITY HYDRAULICS SUMMARY TABLE |                                 |             |                    |        |       |           |
|-----------------------------------|---------------------------------|-------------|--------------------|--------|-------|-----------|
| NETWORK                           | STREET ID                       | FACILITY ID | FACILITY TYPE      | LENGTH | SLOPE | FLOW RATE |
| WEST SD                           | DB2 OUTLET                      | 0           | 30" RCP            | 214'   | 2.0%  | 78 CFS    |
| WEST SD                           | W1                              | 1           | 42" RCP            | 1099'  | 2.9%  | 78 CFS    |
| WEST SD                           | W2                              | 2           | 42" RCP            | 1230'  | 5.0%  | 91 CFS    |
| WEST SD                           | INFLOW FROM SHEEP MOUNTAIN CHNL | 2-1         | 24" RCP            | 66'    | 4.4%  | 15 CFS    |
| WEST SD                           | W3                              | 3           | 54" RCP            | 1161'  | 3.2%  | 222 CFS   |
| WEST SD                           | W3-1                            | 3-1         | 42" RCP            | 191'   | 3.0%  | 112 CFS   |
| WEST SD                           | W3-1                            | 3-2         | 30" RCP            | 595'   | 1.7%  | 40 CFS    |
| WEST SD                           | W4                              | 4a          | 54" RCP            | 100'   | 4.5%  | 362 CFS   |
| WEST SD                           | W4                              | 4b          | 54" RCP            | 1500'  | 4.5%  | 241 CFS   |
| WEST SD                           | ARROYO WASH INFLOW              | 5-1-1       | 6" x 6" RCB        | 51'    | 14.6% | 398 CFS   |
| WEST SD                           | W5-4                            | 5-1a        | 12" x 6" RCB       | 100'   | 2.1%  | 967 CFS   |
| WEST SD                           | W5-4                            | 5-1b        | 11" x 6" RCB       | 1654'  | 0.5%  | 802 CFS   |
| WEST SD                           | W5-3                            | 5-2         | 9" x 6" RCB        | 779'   | 0.5%  | 404 CFS   |
| WEST SD                           | W5-2                            | 5-3a        | 60" RCP            | 79'    | 3.0%  | 404 CFS   |
| WEST SD                           | W5-2                            | 5-3b        | 60" RCP            | 301'   | 3.0%  | 362 CFS   |
| WEST SD                           | CONVEYS FLOW TO SD 5-3a         | 5-4a        | 60" RCP            | 491'   | 3.0%  | 362 CFS   |
| WEST SD                           | INFLOW FROM ARROYO WASH         | 5-4b        | 6" x 6" RCB        | 50'    | 2.8%  | 362 CFS   |
| WEST SD                           | W5                              | 6           | 12" x 6" RCB       | 445'   | 1.8%  | 1322 CFS  |
| WEST SD                           | W5                              | 7           | 12" x 6" RCB       | 723'   | 1.8%  | 1333 CFS  |
| WEST SD                           | DISCHARGE TO ARROYO WASH        | 20          | 60" RCP            | 109'   | 2.8%  | 163 CFS   |
| WEST SD                           | W5-2-1                          | 20-1        | 48" RCP            | 134'   | 2.9%  | 109 CFS   |
| WEST SD                           | INFLOW FROM DB1                 | 20-1-1      | 48" RCP            | 135'   | 3.2%  | 97 CFS    |
| WEST SD                           | W5-2-1                          | 20-2        | 36" RCP            | 340'   | 3.0%  | 94 CFS    |
| WEST SD                           | W5-2-1                          | 20-3        | 36" RCP            | 193'   | 3.5%  | 94 CFS    |
| WEST SD                           | DISCHARGE TO ARROYO WASH        | 21          | 54" RCP            | 42'    | 4.0%  | 239 CFS   |
| WEST SD                           | W5-4-2                          | 21-1        | 42" RCP            | 100'   | 2.5%  | 124 CFS   |
| WEST SD                           | INFLOW FROM ARROYO WASH         | 21-1b       | 54" RCP            | 88'    | 3.4%  | 115 CFS   |
| WEST SD                           | W5-4-2                          | 21-3        | 36" RCP            | 863'   | 3.4%  | 62 CFS    |
| WEST SD                           | W5-4-1                          | 21-3        | 36" RCP            | 105'   | 1.3%  | 62 CFS    |
| WEST SD                           | N/A                             | 22          | 7" x 6" RCB        | 426'   | 2.2%  | 1131 CFS  |
| WEST SD                           | N/A                             | 22-1        | 7" x 6" RCB        | 146'   | 2.2%  | 1093 CFS  |
| WEST SD                           | W17                             | 22-2        | 8" x 6" RCB        | 339'   | 2.0%  | 1343 CFS  |
| WEST SD                           | W17                             | 22-3        | 8" x 6" RCB        | 1017'  | 2.0%  | 1275 CFS  |
| WEST SD                           | W17                             | 22-4        | 8" x 6" RCB        | 382'   | 2.6%  | 1275 CFS  |
| WEST SD                           | W19 OUTLET TO WASH              | 23          | 36" RCP            | 59'    | 3.4%  | 538 CFS   |
| WEST SD                           | W19                             | 23-1b       | 54" RCP            | 529'   | 1.7%  | 260 CFS   |
| WEST SD                           | N/A                             | 30          | 42" RCP            | 476'   | 2.5%  | 135 CFS   |
| WEST SD                           | W18                             | 30-1        | 72" RCP            | 297'   | 1.2%  | 385 CFS   |
| WEST SD                           | W18                             | 30-2        | 54" RCP            | 364'   | 1.8%  | 260 CFS   |
| WEST SD                           | W18                             | 30-3        | 54" RCP            | 527'   | 1.4%  | 260 CFS   |
| WEST SD                           | W6                              | 31          | 8" x 6" RCB        | 272'   | 2.0%  | 1133 CFS  |
| WEST SD                           | DISCHARGE FROM SB               | 50          | CONC TRAP CHNL     | 1017'  | 1.5%  | 471 CFS   |
| WEST SD                           | ARROYO WASH CULVERT             | C3          | 6" x 6" RCB        | 164'   | 6.1%  | 308 CFS   |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D3          | EARTHEN TRAP CHNL  | 815'   | 3.6%  | 31 CFS    |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D3-1        | EARTHEN TRAP CHNL  | 1239'  | 1.7%  | 31 CFS    |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D4          | EARTHEN TRAP CHNL  | 534'   | 4.5%  | 11 CFS    |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D4-1        | EARTHEN TRAP CHNL  | 757'   | 1.5%  | 11 CFS    |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D4-2        | EARTHEN TRAP CHNL  | 691'   | 1.0%  | 11 CFS    |
| WEST SD                           | SHEEP MOUNTAIN CHNL             | D5          | EARTHEN TRAP CHNL  | 1252'  | 1.2%  | 6 CFS     |
| WEST SD                           | CHANNEL TO DB2                  | D6          | CONCRETE TRAP CHNL | 723'   | 3.0%  | 235 CFS   |
| WEST SD                           | CHANNEL TO DB2                  | D6-1        | EARTHEN TRAP CHNL  | 451'   | 0.9%  | 10 CFS    |
| WEST SD                           | CHANNEL TO DB2                  | D6-2        | EARTHEN TRAP CHNL  | 145'   | 1.4%  | 10 CFS    |
| WEST SD                           | N/A                             | 6-1         | (B) 10" X 4" RCB   | 62'    | N/A   | N/A       |

| FACILITY HYDRAULICS SUMMARY TABLE |                            |             |                      |        |       |           |
|-----------------------------------|----------------------------|-------------|----------------------|--------|-------|-----------|
| NETWORK                           | STREET ID                  | FACILITY ID | FACILITY TYPE        | LENGTH | SLOPE | FLOW RATE |
| EAST SD                           | US-95 SD CROSSING          | 8           | 12" x 8" RCB         | 605'   | 2.9%  | 200 CFS   |
| EAST SD                           | RCP                        | 9           | 60" RCP              | 1724'  | 2.5%  | 200 CFS   |
| EAST SD                           | US-95                      | 9-1         | 72" RCP              | 1482'  | 1.4%  | 466 CFS   |
| EAST SD                           | US-95                      | 9-3         | 72" RCP              | 1987'  | 1.5%  | 466 CFS   |
| EAST SD                           | RCP                        | 11          | 72" RCP              | 913'   | 2.9%  | 639 CFS   |
| EAST SD                           | E2-2                       | 11-1        | 72" RCP              | 57'    | 3.0%  | 539 CFS   |
| EAST SD                           | E2-2                       | 11-2        | 42" RCP              | 680'   | 1.2%  | 73 CFS    |
| EAST SD                           | E2-1                       | 11-3        | 30" RCP              | 238'   | 1.7%  | 39 CFS    |
| EAST SD                           | RCP                        | 12          | 72" RCP              | 794'   | 2.9%  | 639 CFS   |
| EAST SD                           | RCP                        | 13a         | 72" RCP              | 50'    | 1.6%  | 666 CFS   |
| EAST SD                           | RCP                        | 13b         | 72" RCP              | 809'   | 2.9%  | 639 CFS   |
| EAST SD                           | E4-3                       | 14-1-1      | 42" RCP              | 50'    | 5.0%  | 181 CFS   |
| EAST SD                           | E4-3                       | 14-1-2      | 24" RCP              | 461'   | 5.0%  | 36 CFS    |
| EAST SD                           | E4-4                       | 14-1a       | 72" RCP              | 51'    | 0.7%  | 347 CFS   |
| EAST SD                           | E4-4                       | 14-1b       | 72" RCP              | 1303'  | 0.7%  | 321 CFS   |
| EAST SD                           | RCP                        | 14-2        | 60" RCP              | 50'    | 0.4%  | 140 CFS   |
| EAST SD                           | RCP                        | 14-3        | 54" RCP              | 1299'  | 0.4%  | 111 CFS   |
| EAST SD                           | E19                        | 17          | 36" RCP              | 56'    | 3.0%  | 70 CFS    |
| EAST SD                           | E19                        | 17-1        | 6" x 6" RCB          | 1632'  | 3.3%  | 1058 CFS  |
| EAST SD                           | Parcel 3.04                | 17-2        | 48" RCP              | 298'   | 2.3%  | 220 CFS   |
| EAST SD                           | E4-4-2                     | 26          | 60" RCP              | 209'   | 2.6%  | 416 CFS   |
| EAST SD                           | E4-4-2                     | 26-1        | 60" RCP              | 1180'  | 2.6%  | 374 CFS   |
| EAST SD                           | Parcel 3.06                | 26-2        | 60" RCP              | 1355'  | 2.6%  | 374 CFS   |
| EAST SD                           | Parcel 3.07                | 26-3        | 60" RCP              | 1918'  | 2.6%  | 374 CFS   |
| EAST SD                           | E16                        | 28-1        | 60" RCP              | 50'    | 0.8%  | 0 CFS     |
| EAST SD                           | E16                        | 28-2        | 42" RCP              | 660'   | 0.8%  | 0 CFS     |
| EAST SD                           | E17                        | 29-1        | 66" RCP              | 50'    | 4.0%  | 208 CFS   |
| EAST SD                           | E17                        | 29-2        | 66" RCP              | 647'   | 0.6%  | 208 CFS   |
| EAST SD                           | EX WASH INFLOW             | 29-3        | 60" RCP              | 95'    | 0.5%  | 173 CFS   |
| EAST SD                           | DISCHARGE TO MOCCASIN CHNL | 29b         | 60" RCP              | 65'    | 1.2%  | 208 CFS   |
| EAST SD                           | CROSSING FORT APACHE       | 35          | 66" RCP              | 46'    | 0.5%  | 228 CFS   |
| EAST SD                           | E15                        | 35-1        | 66" RCP              | 389'   | 0.8%  | 228 CFS   |
| EAST SD                           | MOCCASIN CHNL INFLOW       | 35-2        | 66" RCP              | 120'   | 3.3%  | 228 CFS   |
| EAST SD                           | E16                        | C1          | 72" RCP              | 147'   | 2.9%  | 378 CFS   |
| EAST SD                           | RCP                        | C2          | 6" x 6" RCB          | 155'   | 1.4%  | 378 CFS   |
| EAST SD                           | MOCCASIN CHNL              | D1          | RIP-RAP TRAP CHANNEL | 2408'  | 2.6%  | 378 CFS   |
| EAST SD                           | MOCCASIN CHNL              | D2          | RIP-RAP TRAP CHANNEL | 2504'  | 3.0%  | 208 CFS   |

| DETENTION BASIN HYDRAULICS SUMMARY TABLE |         |         |                |               |          |                            |
|------------------------------------------|---------|---------|----------------|---------------|----------|----------------------------|
| FACILITY ID                              | INFLOW  | OUTFLOW | 100-YR STORAGE | TOTAL STORAGE | PMP FLOW | COMMENTS                   |
| DB1                                      | 794 CFS | 71 CFS  | 57 AC-FT       | 6 AC-FT       | 674 CFS  | EXISTING DETENTION BASIN 1 |
| DB2                                      | 794 CFS | 57 CFS  | 72 AC-FT       | 6 AC-FT       | 789 CFS  | PROPOSED DETENTION BASIN 2 |

**NOTES:**

- REFER TO EXHIBIT M - PROPOSED CONDITION US-95 HYDRAULICS SUMMARY MAP FOR DETAILED FLOW THRU EXISTING US-95 CULVERTS & RCB FACILITIES
- REFER TO EXHIBIT L - PROPOSED CONDITION OFFSITE EAST FACILITIES MAP FOR EXTENSION OF FACILITIES REQUIRED IN MPV ALIGNMENT EAST OF SKYE CANYON.
- 5-FT TOPOGRAPHIC CONTOURS SHOWN ON EXHIBIT

**LEGEND**

- PROPOSED FACILITIES
- EXISTING FACILITIES
- OPEN CHANNEL FACILITIES
- STREET SEGMENT ID

SCALE - 1"=600' FEET

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**OLYMPIA COMPANIES**  
SKYE CANYON - MASTER DRAINAGE STUDY  
PROPOSED CONDITION ONSITE DRAINAGE FACILITIES MAP

DATE: SEPT 2016  
DRAFTER: CWB/JSR  
DESIGNER: CWB/JSR  
CHECKED: SMJ  
PROJECT NO.  
**OLY1603.000**

**EXHIBIT H**  
SHEET 1 OF 1