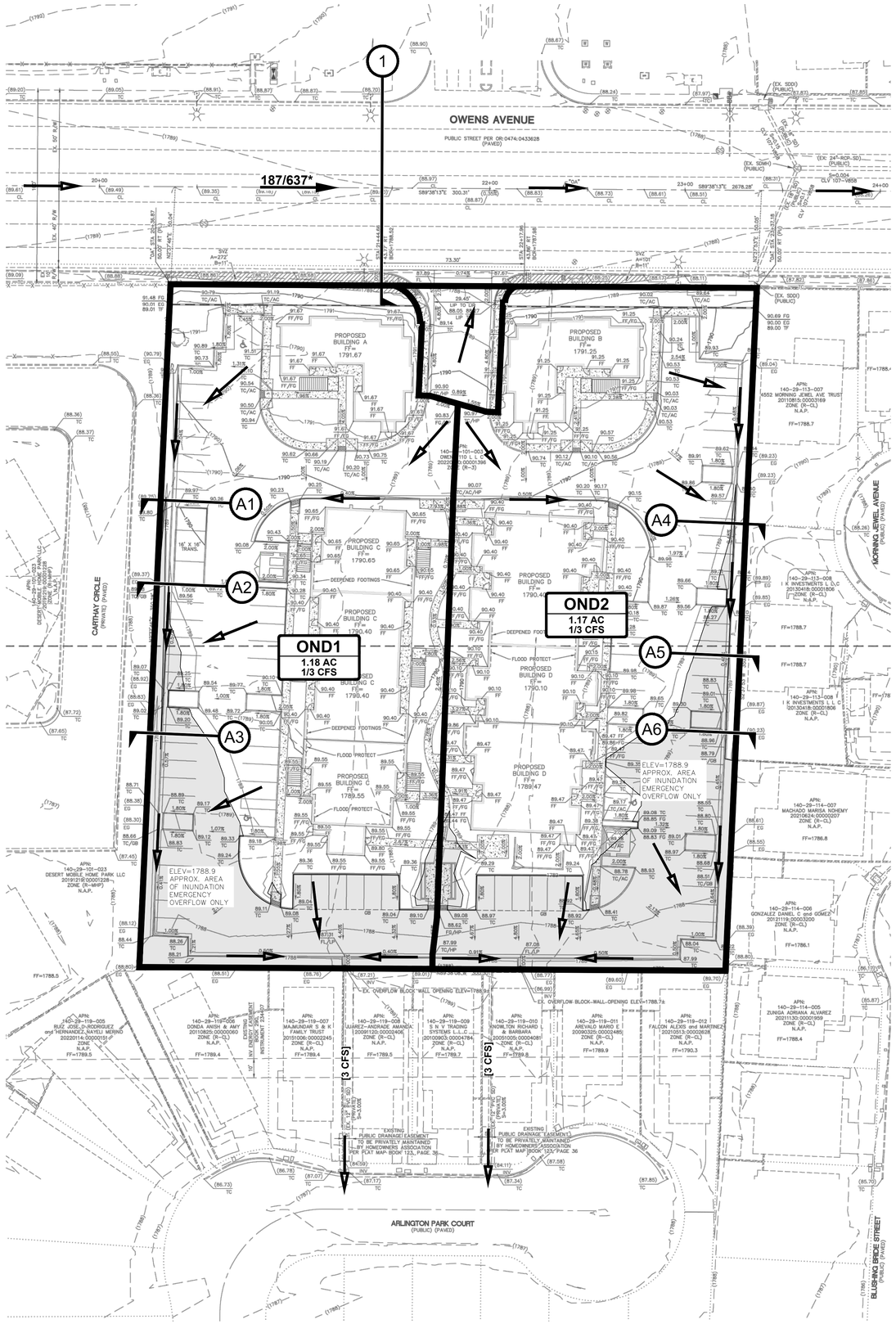


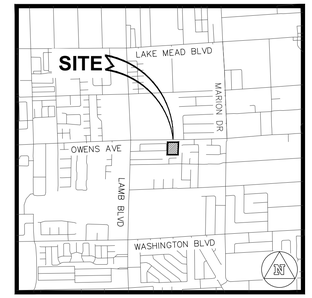


## LEGEND

BASIN LABEL

OND8 | 1.81 AC | 1/2 CFS — BASIN ID; BASIN AREA (ACRES); 10-/100-YEAR PEAK RUNOFF RATE FROM BASIN (CFS)

ON-SITE BASIN BOUNDARY

OFF-SITE BASIN BOUNDARY

SPECIAL FLOOD HAZARD AREA (SFHA) BOUNDARY

SOIL BOUNDARY

● CPN1 — COMBINATION POINT AND POINT ID

HYDRAULIC SECTION — (A) SECTION ID

FLOW ARROWS — DIRECTION OF RUNOFF

8/12 — 10-/100-YEAR PEAK FLOW RATE (CFS)

81 — 100-YEAR PEAK FLOW RATE (CFS)

[121 CFS] — 100-YEAR PEAK STORM DRAIN FLOW RATE (CFS)

### PEAK FLOW SUMMARY
**Interim and Future Conditions**

| Basin ID/ Tributaries | Point ID | Area (acres) | 10-Year $Q_{10}$ (cfs) | 100-Year $Q_{100}$ (cfs) |
|---|---|---|---|---|
| REF* | ----- | ----- | 187 | 637 |
| OND1 | ----- | 1.18 | 1 | 3 |
| OND2 | ----- | 1.17 | 1 | 3 |

* FLOW IN OWENS AVE PER DIAZ ES STUDY

### 10-YEAR STREET FLOW SUMMARY
**Interim and Future Conditions**

| Section ID | Street | Slope (%) | Right-of-Way (ft) | Flow Rate $Q_{10}$ (cfs) | Depth $D_{10}$ ≤1 (ft) | Velocity $V_{10}$ (ft/s) | D×V ≤6 | Dry-Lane ≥19 (ft) |
|---|---|---|---|---|---|---|---|---|
| 1 | Owens Ave | 0.35 | 100 | 187 | 1.10 | 3.6 | 3.96 | 0 |

### 100-YEAR STREET FLOW SUMMARY
**Interim and Future Conditions**

| Section ID | Street | Slope (%) | Right-of-Way (ft) | Flow Rate $Q_{100}$ (cfs) | Depth $D_{100}$ ≤2 (ft) | Velocity $V_{100}$ (ft/s) | D×V ≤8 | WSE (ft) |
|---|---|---|---|---|---|---|---|---|
| 1 | Owens Ave | 0.35 | 100 | 637 | 1.67 | 5.86 | 9.79 | 1789.69 |

### ON-SITE FLOW SUMMARY
**Interim and Future Conditions**

| Section ID | Slope (%) | Flow Rate $Q_{100}$ (cfs) | Depth $D_{100}$ (ft) | Velocity $V_{100}$ (ft/s) | 2D (ft) | WSE (ft) |
|---|---|---|---|---|---|---|
| A1** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1789.76 |
| A2** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1789.34 |
| A3** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1788.90 |
| A4** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1789.26 |
| A5** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1788.94 |
| A6** | 0.40 | 3 | 0.46 | 1.94 | 0.92 | 1788.75 |

** DEPTH AT SECTION A AT UPSTREAM END OF BUILDING/BUILDING STEP

GRAPHIC SCALE
30 0 15 30 60
1 inch = 30 feet

### REFERENCES
* DIAZ ES STUDY – TECHNICAL DRAINAGE STUDY FOR LAMB & OWENS ELEMENTARY SCHOOL #1553 (HTE 06-47958, DS 4145)

| REV | DATE | BY | DESCRIPTION |
|---|---|---|---|

CLIENT
ZENITH ENGINEERING
1980 FESTIVAL PLAZA DR, STE. 450
LAS VEGAS, NV 89135

FIRM
**REYNOLDS ENGINEERING CO.**
**1925 Village Center Cir, Ste.150 Las Vegas, NV 89134**
(702) 382-8088

SHEET
# DRAINAGE PLAN INTERIM AND FUTURE CONDITIONS

PROJECT
OWENS APARTMENTS
CITY OF LAS VEGAS, NV

JOB NO.: 23004
DATE: 2023-07-17
SCALE: 1"=30'
DESIGNED BY: JGR
DRAWN BY: JGR
CHECKED BY: JGR
SEAL

SHEET NO.: D2
SHEET 1 OF 1
ENTITY NO.: DS 5679

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