NORTH

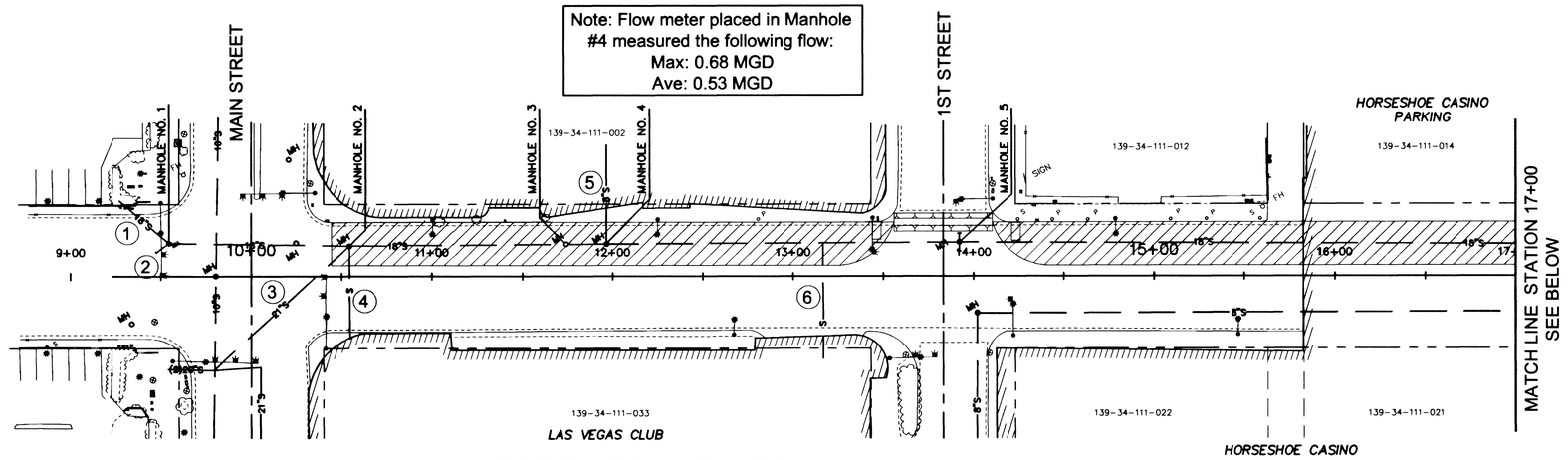
0 40 80 120

1 INCH = 40 FEET

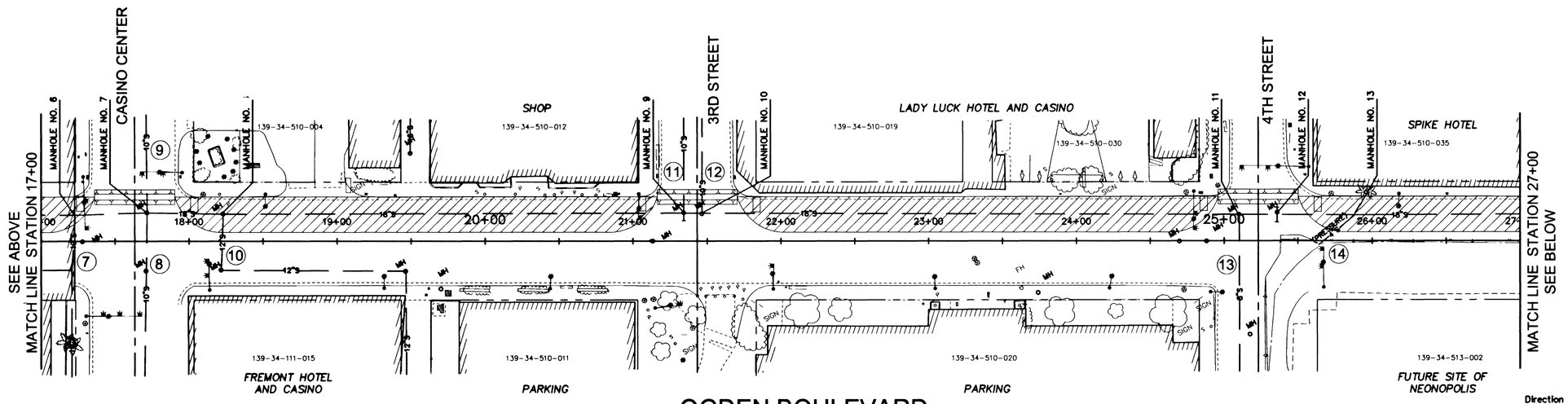
LEGEND

- Lane Closure
- Handicap Ramp (1:20)
- Vehicle Ramp Per Detail This Sheet
- NDOT Encroachment Permit Limits

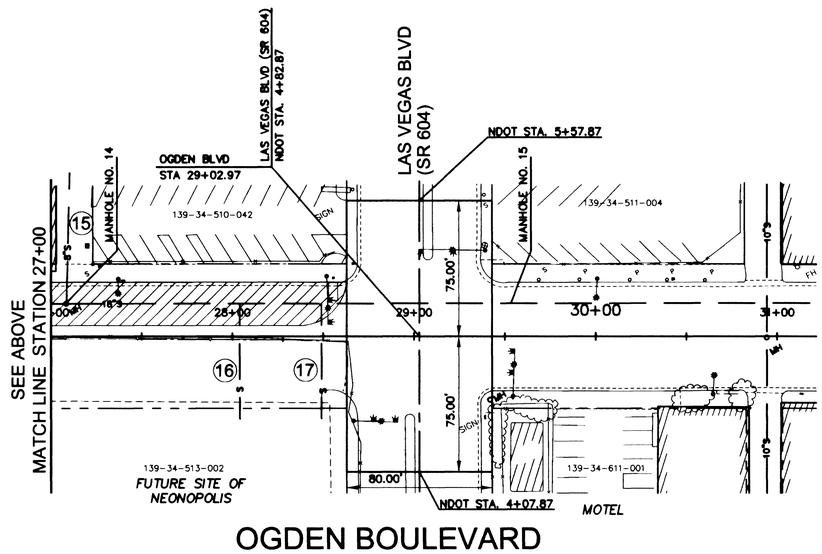
Note: Flow meter placed in Manhole #4 measured the following flow:
Max: 0.68 MGD
Ave: 0.53 MGD



OGDEN BOULEVARD



OGDEN BOULEVARD



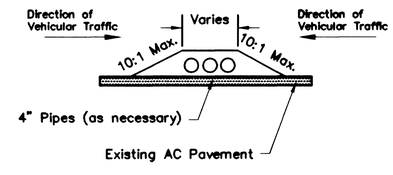
OGDEN BOULEVARD

NOTES:

1. THE CONTRACTOR SHALL MAINTAIN 1 LANE OPEN IN EACH DIRECTION AT ALL TIMES.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL BUSINESS'S DURING CONSTRUCTION
3. VEHICLE RAMPS SHALL NOT EXCEED A MAXIMUM SLOPE OF 10:1
4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL REQUIREMENTS

NDOT CONTROLLED INTERSECTION SPECIAL NOTES:

1. ENCROACHMENT PERMIT HAS BEEN OBTAINED FROM NDOT ALLOWING FOR INSTALLATION OF BYPASS PUMPING EQUIPMENT AND PIPING.
2. BYPASS OPERATIONS WILL BE LIMITED TO PIPING INSTALLED PER RAMP SECTION DETAIL ON THIS SHEET.
3. ENCROACHMENT PERMIT WILL ALLOW BYPASS RAMP WITHIN NDOT CONTROLLED RIGHT OF WAY TO BE IN PLACE FOR A TIME PERIOD NOT TO EXCEED 5 CONSECUTIVE CALENDAR DAYS WHICH MUST INCLUDE A SATURDAY AND A SUNDAY.
4. BYPASS LINES SHALL BE 4" OR LESS IN NDOT R/W AREAS



BYPASS RAMP DETAIL
N.T.S.

TABLE B1 - Estimated Average Flows Tributary to 18" Sewer

Flow #	Pipe Size	Observed Flow	Estimated Average Flow	Description
1	18"	No	Unknown	
2	18"	No	Unknown	Capped
3	21"	Yes	0.529 MGD	Mainline
4	Unknown	No	Unknown	Las Vegas Club
5	8"	Yes	0.120 MGD	California (ERU)
6	Unknown	No	0.020 MGD	Las Vegas Club Garage
7	10"	Yes	0.145 MGD	Las Vegas Club (ERU)
8	10"	Yes	0.198 MGD	Horseshoe (ERU)
9	10"	No	N/A	Overflow
10	12"	Yes	0.127 MGD	Fremont (ERU)
11	10"	Yes	0.090 MGD	Lady Luck (ERU) Tower
12	10"	Yes	0.090 MGD	Lady Luck (ERU) Casino
13	8"	Yes	0.041 MGD	Shops & Fremont (ERU)
14	4" Pressure	No	Unknown	Neonopolis Proposed Garage
15	8"	Yes	0.040 MGD	Spike Hotel & Others (ERU)
16	6"	No	0.022 MGD	Neonopolis Proposed (ERU)
17	Unknown	No	Unknown	Neonopolis Proposed

TABLE A - Peaking Factors

Cumulative[1] Average Flow	Peak Flow Factor[2]
0.5 MGD	2.80
1.0 MGD	2.65
1.5 MGD	2.55
2.0 MGD	2.50
3.0 MGD	2.40
4.0 MGD	2.30
5.0 MGD	2.25
6.0 MGD	2.20
7.0 MGD	2.15

[1] For Cumulative Average Flow values, calculated from Table B1 and/or B2, between those shown use the higher of the two Peak Flow Factors.

[2] "Southern Nevada Design and Construction Standards for Wastewater Collection Systems 1997", Clark County Sanitation District, Peaking Curves, Table C, Page T-3.

NO.	REVISIONS	BY	DATE

JOB NO. LV01003
DESIGN BY WDB
DATE 03/02
SCALE (V) N/A
SCALE (H) 1"=40'
CADFILE 003_B01

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
BRYAN M. KOBEL
CIVIL
No. 8430

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OGDEN BOULEVARD
SEWER AND PAVEMENT REHABILITATION
MAIN STREET TO 13th STREET
SEWER BYPASS PLAN
STATION 10+00 TO STATION 30+00

SHEET
B-1
23 OF 24 SHEETS

DRAWING NO.
307-V813

40396