FIRE FLOW REQUIREMENT IS 2,875 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON: AM 6/25/04

SQUARE FOOTAGE: ..... 74,006 SF

LARGEST AREA BETWEEN 4 HOUR AREA SEPARATION WALLS: ..... 74,006 SF

BUILDING HEIGHT: ..... 45'-4" (MAX)

NUMBER OF STORIES: 2

TYPE OF CONSTRUCTION: ..... II-B

OCCUPANCY: ..... BUISNESS

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

REVIEWED BY: LAS VEGAS FIRE DEPT. DATE: 6/21/04

EX. SANITARY SEWER NOTES:

1. EX. RIM EL.=145.97'
   INV. IN (W)=128.67' (15" PVC)
   INV. IN (N)=129.20' (8" PVC)
   INV. OUT (E)=128.32' (15" PVC)
2. EX. RIM EL.=145.11'
   INV. IN (W)=138.00' (8" PVC)
   INV. OUT (N)=137.96' (8" PVC)
3. EX. RIM EL.=143.55'
   INV. IN (W)=133.78' (8" PVC)
   INV. OUT (N)=133.46' (8" PVC)
4. EX. RIM EL.=139.94'
   INV. IN (S)=128.73' (8" PVC)
   INV. IN (W)=128.65' (8" PVC)
   INV. OUT (N)=128.44' (8" PVC)
5. EX. RIM EL.=135.68'
   INV. IN (W)=118.59' (15" PVC)
   INV. OUT (E)=118.34' (15" PVC)
6. EX. RIM EL.=129.23'
   INV. IN (W)=112.91' (15" PVC)
   INV. OUT (SE)=112.60' (15" PVC)
7. EX. RIM EL.=127.10'
   INV. IN (NW)=109.92' (15" PVC)
   INV. OUT (E)=109.61' (15" PVC)

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1)-2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE #11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S). RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTERUCTION.

DOUBLE CHECK DETECTOR ASSEMBLY (1)-6"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 20B.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTERUCTION.

SEWER CONTRIBUTION TABLE

.09 MGD AVERAGE FLOW
.27 MGD PEAK FLOW

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

FIRE LANE REQUIREMENTS

SIGNS SHALL BE PLACED AT EACH ENTRANCE TO A FIRE LANE AND THEREAFTER AT LEAST EVERY 100 LINEAR FEET, OR PORTION THEREOF, ALONG THE FIRE LANE. CURBS SHALL BE PAINTED RED WHEN REQUIRED BY THE FIRE DEPARTMENT. WHEN APPROVED BY THE FIRE DEPARTMENT, PRIVATE FIRE LANES MAY HAVE THE CURBS PAINTED RED WITH WORDS ON THE CURB AT LEAST EVERY 50 LINEAR FEET, OR PORTION THEREOF, STATING "NO PARKING FIRE LANE", IN LIEU OF THE SIGNS ON A POST. THE SIGNS ON A POST ARE REQUIRED AT ALL ENTRANCES. THE WORDS ON THE CURBS SHALL BE PAINTED IN WHITE BLOCK LETTERS NOT LESS THAN 4 INCHES IN HEIGHT WITH A STROKE OF NOT LESS THAN 3/4".

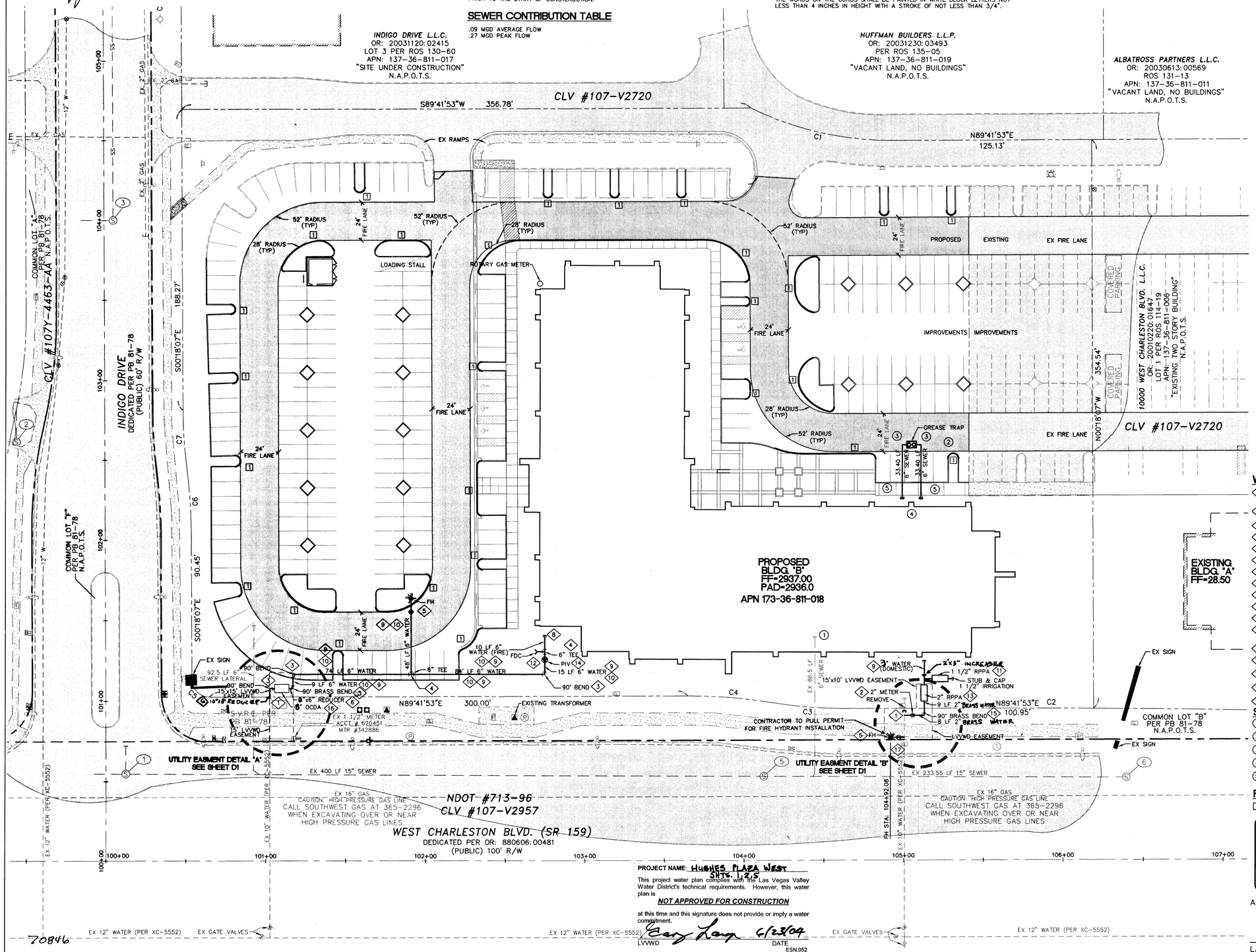
BASIS OF BEARINGS:

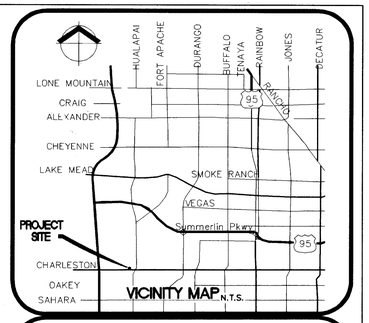
NORTH 00°18'07" WEST, BEING THE CENTERLINE OF A PORTION OF INDIGO DRIVE AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER IN BOOK 87, PAGE 14 OF PLATS.

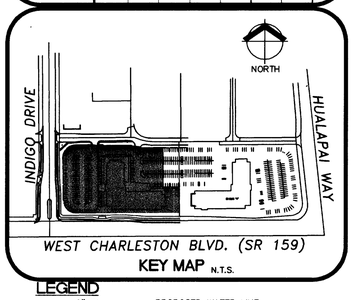
SCALE: 1"= 30"
30' 15' 7.5' 0 30'

BENCHMARK

RIVET AND PLATE IN TOP OF CURB, NORTH EAST CORNER OF PAVILLION CENTER & PARK RUN (NO.OLV09-36SWW6)
919.9832 NAVD 1988 DATUM(METERS)
3018.31 NAVD 1988 DATUM(FEET)







LEGEND

8" W	PROPOSED WATER LINE
8"SS	PROPOSED SEWER LINE
	PROPOSED STREET LIGHT
D	PROPOSED STORMDRAIN MANHOLE
S	PROPOSED SEWER MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	POST INDICATOR VALVE
BWV	BACKWATER VALVE
	FIRE DEPARTMENT CONNECTION
RPPA	PROPOSED RPPA
DCDA	PROPOSED DCDA
	PROPOSED FIRE LANE PAINTED CURB
	PROPOSED FIRE ROUTE
	SAWCUT AND REPLACE
8" W	EXISTING WATER LINE
8"SS	EXISTING SEWER LINE
	EXISTING STREET LIGHT
	EXISTING WATER VALVE
D	EXISTING STORMDRAIN MANHOLE
S	EXISTING SEWER MANHOLE
	EXISTING FIRE HYDRANT

WATER CONSRTUCTION NOTES

1. CONNECT TO EXIST. 10" WATER STUB. CUT & TIE IN PER UDACS PLATE 4A NOTE 1.
2. INSTALL COMPLETE 2" DOM. WATER LINE W/ CORPORATION STOP & 2" METER PER UDACS PLATE #1D.
3. 6" - 90° ELBOW W/ THRUST BLOCK PER UDACS PLATE 5.
4. 6"X6"X6" TEE W/ THRUST BLOCK PER UDACS PLATE 5.
5. INSTALL FIRE HYDRANT ASSEMBLY COMPLETE PER UDACS PLATE #7.
6. INSTALL REDUCER, SIZE PER PLAN WITH THRUST BLOCKS PER PLATE #3.
7. STUB AND CAP 6" WATER WITH THRUST BLOCKS PER PLATE #5.
8. SEE MECHANICAL PLANS FOR BUILDING CONNECTIONS.(RATED FOR 200 PSI)
9. INSTALL PVC WATER MAIN, SIZE PER PLAN. WATER TRENCH PER UDACS PLATE #6C.
10. INSTALL 6" PVC FIRE LINE.
11. INSTALL COMPLETE 1.5" IRRIGATION POLY. LINE W/ CORPORATION STOP 1.5" RPPA PER UDACS PLATE #11A. SEE LANDSCAPE PLANS FOR CONTINUATION.
12. INSTALL FIRE DEPARTMENT CONNECTION, RATED FOR 200 PSI, SEE MECHANICAL PLANS.
13. INSTALL 2" RPPA PER UDACS PLATE # 11A.
14. INSTALL POST INDICATOR VALVE PER FIRE DEPARTMENT REQUIREMENTS.
15. 2" - 90° BRASS ELBOW.
16. INSTALL 8" DCDA PER UDACS PLATE 11C
17. CONTRACTOR TO PULL PERMIT FOR FIRE HYDRANT INSTALLATION.

SEWER CONSRTUCTION NOTES

1. CONNECT TO EX 6" SEWER, ABANDON AS NEEDED PER DSWCS 3.14.1.
2. INSTALL GREASE INTERCEPTOR PER MECHANICAL PLANS
3. INSTALL 6" PVC SEWER LINE
4. SEE MECHANICAL PLANS FOR BUILDING CONNECTION.
5. SEWER TRENCH PER DCWCS PLATE SD-16A

FIRE CONSTRUCTION NOTES

1. PROPOSED RED PAINTED FIRE LANE CURB, STENCILED "NO PARKING FIRELANE" EVERY 50'

Avoid hitting overhead power lines. It's costly. **Call before you Overhead** 1-702-593-6111

Avoid cutting underground utility lines. It's costly. **Call before you Dig** 1-800-227-2600 UNDERGROUND SERVICE (USA)

Avoid hitting underground traffic signal signals and street light system conduits. It's costly. **Call before you UnderGround** 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-229-6611 LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PROJ. 29393 DATE:

PROJECT NAME: HUGHES PLAZA WEST
SHTS. 1&2,5

This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is

NOT APPROVED FOR CONSTRUCTION

at this time and this signature does not provide or imply a water commitment.

LVVWD Gary Lamp 6/23/04 DATE

ESN.052

70846

W R G DESIGN INC.
3011 W. HORIZON RIDGE PARKWAY #100, HENDERSON, NV 89052
Tel. 702.990.9300 Fax. 702.990.9305
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

UTILITY AND FIRE PLAN
HUGHES PLAZA WEST
CBS L.L.C.
LAS VEGAS, NEVADA

DATE	DESCRIPTION	BY

PROFESSIONAL ENGINEER - STATE OF NEVADA
JAMES D. KELLEY
EXP. 6/30/05
CIVIL
No. 15699
6/30/04

DATE	03/16/2004
DRAWN	DL2
DESIGNED	N/A
CHECKED	JDK
PROJECT #	BRS 3043969.00

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C5

5 OF 7 SHEET