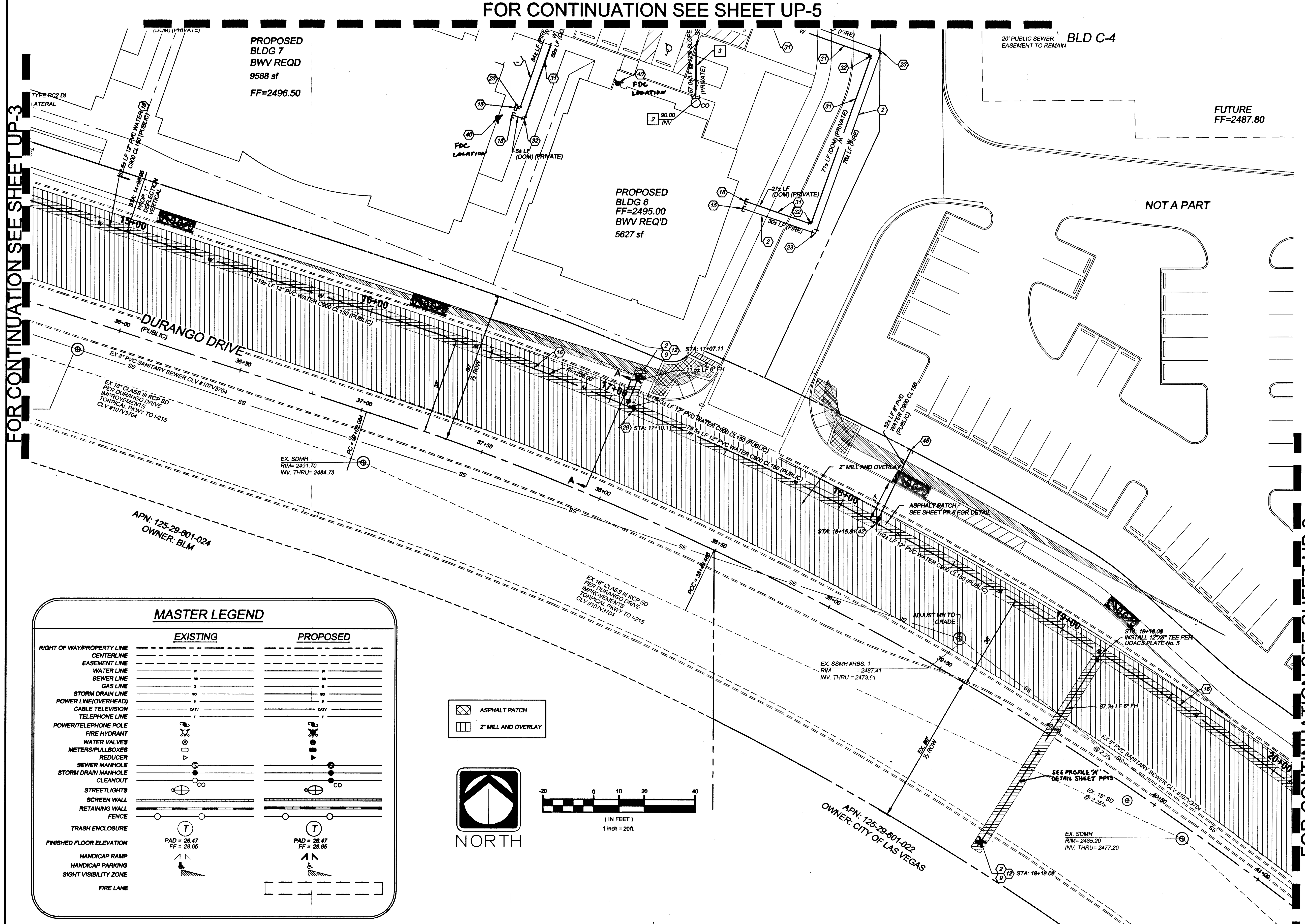
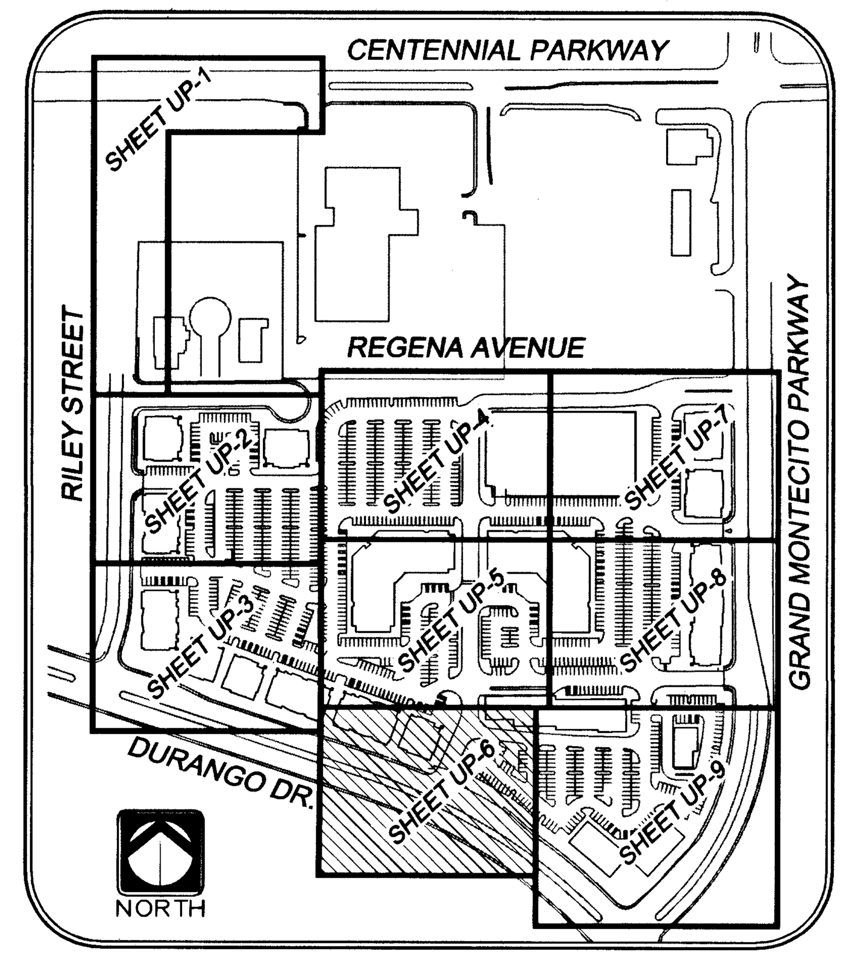
FOR CONTINUATION SEE SHEET UP-5

FOR CONTINUATION SEE SHEET UP-3



FOR CONTINUATION SEE SHEET UP-9



KEY MAP
NTS

WATER NOTES

No.	ITEM	UNIT	PUBLIC QUANTITY
1	INSTALL 8" PVC WATER LINE (FPW), PER UDACS PLATE No. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	383
2	INSTALL 6" WATER LINE (FPW), PER UDACS PLATE No. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	142
3	NOT BEING USED	EA	-
4	INSTALL 4" WATER LINE (DOM), PER UDACS PLATE No.6 (PVC, C-900, CL-150)	LF	34
5	INSTALL 12"X8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE No. 22 & 8	EA	6
6	INSTALL 4" TURBINE METER PER UDACS PLT. No. 18A (WITH BYPASS) IN A VAULT PER UDACS DRWG. No. C-475	EA	2
7	INSTALL 8" DCDA PER UDACS PLATE No.11C	EA	4
8	INSTALL 8"x6" REDUCER	EA	-
9	INSTALL 8"X6" TEE PER UDACS PLATE No. 5	EA	5
10	INSTALL 4" 90° BEND PER UDACS PLATE No. 5	EA	2
11	INSTALL 8" WATER LINE (DOM), PER UDACS PLATE No.6B & 6C (PVC, C-900, CL-150)	LF	-
12	INSTALL FIRE HYDRANT ASSEMBLY, INCLUDING GATE VALVE, PER UDACS PLATE No. 7	EA	5
13	INSTALL 4" DUAL RPPA PER DETAIL 1 . UDACS PLATE No. 11D	EA	2
14	INSTALL 8"x8" TEE PER UDACS PLATE No. 5	EA	2
15	INSTALL CAP AND BLOW OFF PER UDACS PLATE 4A, FIRE SPRINKLER RISER CONNECTION, SEE FIRE PROTECTION PLANS FOR CONTINUATION	EA	15
16	INSTALL 12" WATER LINE, PER UDACS PLATE No.6A & 6B & 6C (PVC, C-900, CL-150)	LF	3,073
17	INSTALL 6" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
18	STUB AND CAP 2" WATER LINE	EA	-
19	INSTALL 4"x4"x4" TEE PER UDACS PLATE No. 5	EA	-
20	INSTALL 12" 90° BEND PER UDACS PLATE No. 5	EA	-
21	STUB AND CAP 12" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. NO 4A	EA	4
22	INSTALL 8" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
23	INSTALL6" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	3
24	INSTALL 8" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	2
25	INSTALL 4" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
26	INSTALL 8" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
27	INSTALL 4" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
28	INSTALL 2" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
29	INSTALL 12" GATE VALVE PER UDACS PLATE No. 8 & 3	EA	9
30	INSTALL 8"x4" REDUCER PER UDACS PLATE No. 5	EA	3
31	INSTALL 2" WATER LINE (DOM), PER UDACS PLATE No.6	LF	-
32	INSTALL 2" 90° BEND PER UDACS PLATE No. 5	EA	-
33	INSTALL 4"x4"x2" TEE PER UDACS PLATE No. 5	EA	-
34	INSTALL 2"x4" REDUCER PER UDACS PLATE No. 5	EA	-
35	INSTALL 2"x2"x2" TEE PER UDACS PLATE No. 5	EA	-
36	INSTALL 12" - 11.25° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	5
37	INSTALL 12" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	2
38	INSTALL 12" - 5° BEND RESTRAINED ON EACH END	EA	1
39	INSTALL 8" GATE VALVE PER UDACS PLATE NO. 8 & 3	EA	6
40	INSTALL FIRE DEPARTMENT CONNECTION	EA	-
41	INSTALL 6"x6" TEE PER UDACS PLATE No. 5	EA	-
42	INSTALL 12"x8" TEE PER UDACS PLATE No. 5	EA	4
43	INSTALL 12" WATER LINE, PER UDACS PLATE No.6 (DIP, C-900)	EA	81
44	INSTALL 12"x12" CROSS PER UDACS PLATE No. 5	EA	2
45	STUB AND CAP 8" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. NO 4A	EA	2
46	INSTALL 12"X6" TAPPING SLEEVE AND 6" TAPPING VALVE PER UDACS PLATE No. 22 & 8	EA	1
47	INSTALL 6"x4" REDUCER PER UDACS PLATE No. 5	EA	6

SEWER NOTES

No.	ITEM	UNIT	QUANTITY
1	INSTALL 8" PVC SDR35 SEWER LINE (PRIVATE)	LF	1260
2	INSTALL 6" PVC SEWER CLEANOUT 5' FROM BUILDING (PRIVATE)	EA	14
3	INSTALL 6" PVC SDR 35 SEWER LATERAL PER SD-17 (PRIVATE)	LF	976
4	INSTALL SEWER MANHOLE PER SD-1 (PRIVATE)	EA	5
5	STUB AND CAP EXISTING 8" SEWER (PUBLIC)	EA	1
6	INSTALL 6" PVC SEWER CLEANOUT (PRIVATE) SEE DETAIL 8 SHT DE-3	EA	6
7	INSTALL SEWER MANHOLE PER SD-1 (PUBLIC)	EA	2

EXISTING UTILITY NOTE:

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL 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. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600.

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

Avoid overhead power line contact Call before you OVERHEAD 1-702-227-2929 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you UnderGround 1-702-455-7511 CLARK COUNTY TRAFFIC OPERATIONS And 1-702-229-6611

BASIS OF BEARINGS:

NORTH 89°29'41" EAST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 29, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, AS DETERMINED BY PUBLISHED VALUES BY THE NATIONAL GEODETIC SURVEY FOR THE LAS VEGAS VALLEY WATER DISTRICT CONTINUOUSLY OPERATING REFERENCE STATIONS: NVCS (CARLTON SQUARE), LVWD (MAIN), NVTR (TROPICANA).

BENCHMARK

8LV90 29E4: RIVET & PLATE IN CONCRETE PAD (LVVWD) AT THE NORTHWEST CORNER OF TROPICAL PARKWAY AND DURANGO DRIVE = 752.6812m = 2469.42sft.

LEGAL DESCRIPTION

A PORTION OF THE E 1/2 OF THE NE 1/4 OF SECTION 29, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.

NOTE:

SEE HORIZONTAL CONTROL SHEET HC-1 THRU HC-7 FOR FIRE ACCESS LANES.

DOUBLE CHECK DETECTOR ASSEMBLY
(DCDA) (4) - 8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE NO. 11C. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.006

DUAL REDUCED PRESSURE PRINCIPAL ASSEMBLY
(RPPA) (2) - 4"

APPROVED DUAL REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE No. 11 D. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE DUAL 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) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE:

DCDA AND RPPA ARE TO CONFORM WITH CITY OF LAS VEGAS CHAPTER 19.12.04, OF THE ZONING AND SUBDIVISION LAWS.

NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH

FIRE FLOW CALCULATIONS

FIRE FLOW CALCULATIONS ARE BASE UPON THE LARGEST BUILDING TYPE WHICH IS TYPE "A".

Fire Flow Requirement is 2,125 gallons per minute at 20 psi residual pressure.

Based on:	BLDG
Square Footage: (S.F.)	87,000
Largest area between 4-Hour area separation walls: (S.F.)	N/A
Building Height: (FT)	40
Number of Stories: (FLOORS)	3
Number of Units:	N/A
Type of Construction:	III-A A
Full Automatic Fire Sprinkler System:	☒ Yes ☐ No

Reviewed By: [signature] Fire Department Date: 8.13.07

* BASED ON THE 2003 NFPA-1 UNIFORM FIRE CODE.

[signature] 10/30/07
LAS VEGAS VALLEY WATER DISTRICT DATE
LVVWD PROJECT NUMBER: # 112352

STATE OF NEVADA PROFESSIONAL ENGINEER ALI A. SHAHABI Exp. 6-30-08 CIVIL No. 16238

REV.	DATE	DESCRIPTION	DATE	APPROVAL

Stantec
7251 West Charleston Boulevard, Las Vegas, Nevada 89117
Phone (702) 258-0115 Fax (702) 258-4956
Water Resources Land Planning Civil Engineering Land Surveying Mapping Environmental Services

VENTURE CORPORATION
CENTENNIAL HILLS PROFESSIONAL CENTER
UTILITY PLAN
August 09, 2007
#13769

JOB # 052058.01
SHEET NO.:
UP-6
58 OF 87 SHEETS