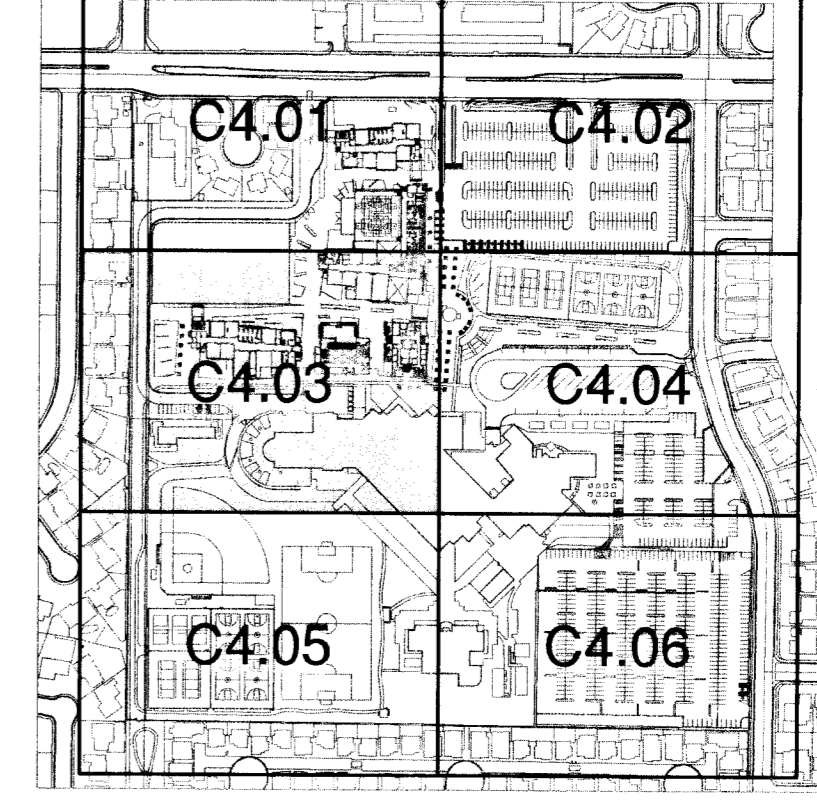


GRAPHIC SCALE  
( IN FEET )  
1 INCH = 30 ft



KEY MAP  
N.T.S.

- WATER CONSTRUCTION NOTES:**
- ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (U.D.A.C.S.)" LATEST EDITION
  - NOT ALL NOTES USED ON THIS SHEET -
  - 1. INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 5.
  - 2. INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 5.
  - 3. INSTALL TEE (SAME SIZE AS PIPES).
  - 4. INSTALL MECHANICAL JOINT TAPPING SLEEVE & TAPPING VALVE (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 22.
  - 5. INSTALL GATE VALVE (SAME SIZE AS PIPE).
  - 6. INSTALL CAP (SAME SIZE AS PIPE).
  - 7. INSTALL BLOW-OFF ASSEMBLY (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 4.
  - 8. STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
  - 9. INSTALL FIRE HYDRANT W/GATE VALVE PER U.D.A.C.S. PLATE No. 7.

**SANITARY SEWER MANHOLE SCHEDULE**

SSMH#	RIM	INV IN	INV OUT
SSMH#1	96.22	88.25	(85.50)
SSMH#2	100.68	94.27	94.07
SSMH#3	100.66	N/A	94.81
SSMH#4	99.66	94.90	94.70
SSMH#5	100.88	96.06	95.85
SSMH#6	101.63	96.96	96.76
SSMH#7	101.40	96.03	95.83
SSMH#8	102.06	97.38	97.18
SSMH#9	101.20	96.71	96.51
SSMH#10	101.50	98.13	97.93

**EXISTING FIRE FLOW CALCULATIONS**

BASED ON: EXISTING SCHOOL      EXISTING GYM

PARAMETER	EXISTING SCHOOL	EXISTING GYM
SQUARE FOOTAGE:	105,000 SQ. FT.	14,570 SQ. FT.
LARGEST AREA BETWEEN 4 HR. AREA SEPARATION WALL:	-	-
BUILDING HEIGHT:	45.00'	35.00'
NUMBER OF STORIES:	2	2
TYPE OF CONSTRUCTION:	II-A	II-FR
EXPOSURES:	-	-
SPRINKLER SYSTEM:	YES	YES
OCCUPANCY:	E	E
ROOF CONSTRUCTION:	SINGLE PLY	SINGLE PLY
FLOW REQUIRED @ 20 PSI RESIDUAL:	2,375	1,500
MAX. STORAGE HEIGHT:	-	-

EX. STATIC WATER PRESSURE IS 55.0+ psi IN STREET.

**SEWER CONTRIBUTION:**  
AVERAGE DAILY FLOW ..... 0.00376 MGD  
PEAK HOURLY FLOW ..... 58.0 GPH

**APPROVED FOR CONSTRUCTION**  
DATE: 3/12/08  
BY: [Signature]

**SAFETY ALERT**  
Call Before You Dig  
Call before you dig

**BASIS OF BEARINGS**  
SOUTH 89°52'09" EAST BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN BY MAP THEREOF ON FILE IN BOOK 48, PAGE 77 OF PLATS IN THE CLARK COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

**BENCHMARK**  
CITY OF LAS VEGAS NO. 0LVO129NNW6  
PIVET & PLATE IN TOP OF CURB @ SE CORNER OF VEGAS DR. & TIMBERLEWEE.  
ELEV. = 642.5245 (METRIC)  
2108.02 (U.S. SURVEY FEET) "NAVD 88"

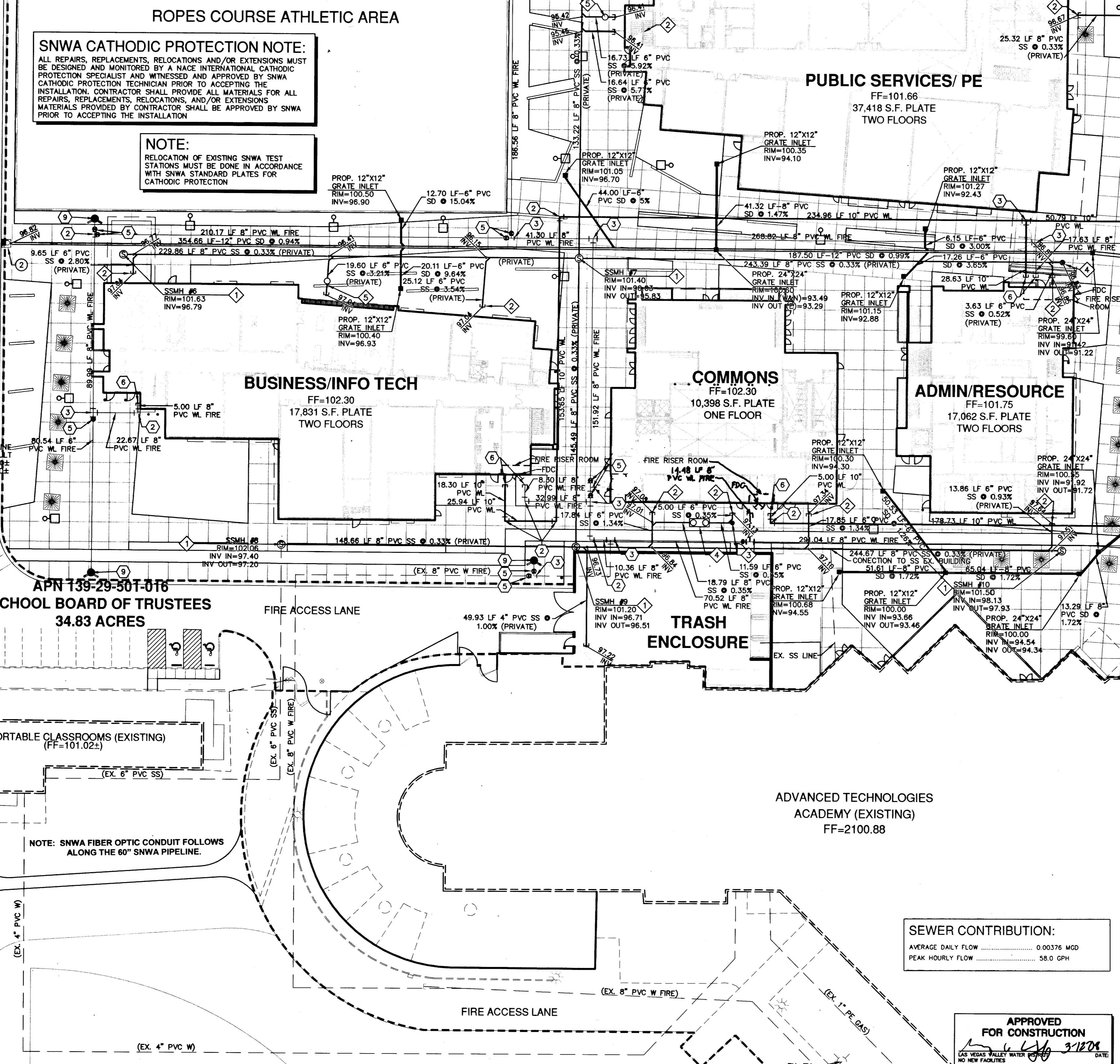
**SNWA APPROVAL**  
DATE: 3/12/08  
BY: [Signature]

**SNWA CONSTRUCTION NOTES:**  
CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL SNWA/SNWS APPURTENANCES INCLUDING, BUT NOT LIMITED TO AV/AR, ACCESS MANWAYS AND CATHODIC PROTECTION SYSTEMS. ALL ABOVE GROUND STRUCTURES AND AT GRADE STRUCTURES MUST BE ADJUSTED TO NEW GRADE AT CONTRACTOR'S EXPENSE. CONTRACTOR TO NOTIFY SOUTHERN NEVADA WATER AUTHORITY DEVELOPMENT PLAN REVIEW AT (702) 862-3444 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.

THIS DATA MAY BE BASED ON THE NATION GEODETIC VERTICAL DATUM OF 1929. IT IS THE ENGINEER'S RESPONSIBILITY TO ENSURE THAT THIS DATA IS COVERED TO THE APPROPRIATE DATUM BEFORE USING SAID DATA.

NO BUILDINGS, STRUCTURES, FENCES OR TREES SHALL BE PLACED UPON, OVER OR UNDER THE SNWA EASEMENT EXCEPT THAT SAID PARCEL MAY BE IMPROVED AND USED FOR STREET, ROAD OR DRIVEWAY PURPOSES AND FOR OTHER UTILITIES.

INSOFARE AS SUCH USE DOES NOT INTERFERE WITH ITS USE BY SNWA FOR THE PURPOSES FOR WHICH IT IS GRANTED.



**SNWA CATHODIC PROTECTION NOTE:**  
ALL REPAIRS, REPLACEMENTS, RELOCATIONS AND/OR EXTENSIONS MUST BE DESIGNED AND MONITORED BY A NACE INTERNATIONAL CATHODIC PROTECTION SPECIALIST AND WITNESSED AND APPROVED BY SNWA CATHODIC PROTECTION TECHNICIAN PRIOR TO ACCEPTING THE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR ALL REPAIRS, REPLACEMENTS, RELOCATIONS, AND/OR EXTENSIONS MATERIALS PROVIDED BY CONTRACTOR SHALL BE APPROVED BY SNWA PRIOR TO ACCEPTING THE INSTALLATION.

**NOTE:**  
RELOCATION OF EXISTING SNWA TEST STATIONS MUST BE DONE IN ACCORDANCE WITH SNWA STANDARD PLATES FOR CATHODIC PROTECTION

**NOTE:** SNWA FIBER OPTIC CONDUIT FOLLOWS ALONG THE 60" SNWA PIPELINE.

MATCHLINE - SEE SHEET C4.05

**LEGEND**

DESCRIPTION	EXISTING	PROPOSED
<b>UTILITIES</b>		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11.25' ELBOW		
22.5' ELBOW		
45' ELBOW		
90' ELBOW		
CROSS		
TEE		
<b>MANHOLES</b>		
ELECTRICAL		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
<b>STREET LIGHTS</b>		
100W HPS STLT		
150W HPS STLT		
200W HPS STLT		
250W HPS STLT		
400W HPS STLT		
<b>GRADING</b>		
SPOT ELEV. (12.3±)		
SLOPE (1.2%)		
5' CONT. (2005)		
1' CONT. (2007)		
<b>SITE</b>		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PAVT.		
SAWTOOTH		
WALL		
<b>LINE TYPES</b>		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT OF WAY LINE		
EASEMENT LINE		
SAWTOOTH LINE		
FLOW LINE		
<b>SHADES</b>		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		

- SEWER CONSTRUCTION NOTES:**
- NOT ALL NOTES USED ON THIS SHEET -
  - 1. INSTALL 48" SANITARY SEWER MANHOLE PER C.C.A.U.S.D. No. 403 WITH CONCRETE COLLAR PER C.C.A.U.S.D. No. 408. REFER TO C.C.A.U.S.D. No. 409 FOR MANHOLE COVER AND RING.
  - 2. STUB SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
  - 3. INSTALL SEWER CLEAN-OUT PER DETAIL 19 ON SHEET C6.01.
  - 4. PROPOSED GREASE INTERCEPTOR LOCATION. REFER TO PLUMBING PLANS FOR SPECIFICATIONS.
  - 5. PROPOSED ACID WASH TANKS. REFER TO PLUMBING PLANS FOR SPECIFICATIONS.
  - 6. INSTALL 60" SANITARY SEWER MANHOLE PER C.C.A.U.S.D. No. 403 WITH CONCRETE COLLAR PER C.C.A.U.S.D. No. 408. REFER TO C.C.A.U.S.D. No. 409 FOR MANHOLE COVER AND RING. INSTALL T-LOCK.
- TRAFFIC NOTES:**
- 1. RELOCATE STREET LIGHT DOWN TO EXISTING FOUNDATION 24" MIN. CONNECT CONDUIT AND REFULL WIRE.

- STORM DRAIN CONSTRUCTION NOTES:**
- NOT ALL NOTES USED ON THIS SHEET -
  - 1. INSTALL 12"x12" GRATE INLET THAT IS PEDESTRIAN SLOTTED FOR ADA STANDARDS. SEE JENSEN PRECAST DETAIL ON SHEET C6.01.
  - 2. 5' MENHAN PRE-CAST DROP INLET.
  - 3. INSTALL 24"x24" GRATE INLET THAT IS PEDESTRIAN SLOTTED FOR ADA STANDARDS AND TRAFFIC RATED. SEE JENSEN PRECAST DETAIL ON SHEET C6.01.
  - 4. CONSTRUCT SIDEWALK UNDERDRAIN PER C.C.A.U.S.D. No. 236.

**NOTE:**  
ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 219 OF UNIFORM DESIGN AND CONSTRUCTION STANDARD FOR WATER DISTRIBUTION SYSTEMS (U.D.A.C.S.) FOR WATER AND STORM DRAIN CROSSING AND CLEARANCES.

**CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL**  
BY: [Signature] DATE: 3/12/08  
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 3,125 GPM AT 20 P.S.I. RESIDUAL.

**FIRE FLOW CALCULATIONS**

BASED ON: GLOBAL STUDIES      PUBLIC SERVICES/PE      ADMIN/RESOURCE      COMMONS      BUSINESS INFO/TECH

PARAMETER	GLOBAL STUDIES	PUBLIC SERVICES/PE	ADMIN/RESOURCE	COMMONS	BUSINESS INFO/TECH
SQUARE FOOTAGE:	13,990 SQ. FT.	37,418 SQ. FT.	17,062 SQ. FT.	10,398 SQ. FT.	17,831 SQ. FT.
LARGEST AREA BETWEEN 4 HR. AREA SEPARATION WALL:	-	-	-	-	-
BUILDING HEIGHT:	37.00'	40.00'	37.00'	23.50'	37.00'
NUMBER OF STORIES:	1	2	2	1	2
TYPE OF CONSTRUCTION:	V-B	II-B	V-B	V-B	V-B
EXPOSURES:	-	-	-	-	-
SPRINKLER SYSTEM:	YES	YES	YES	YES	YES
OCCUPANCY:	E	E	E	E	E
ROOF CONSTRUCTION:	SINGLE PLY/CLASS A	SINGLE PLY/CLASS A	SINGLE PLY/CLASS A	SINGLE PLY/CLASS A	SINGLE PLY/CLASS A
FLOW REQUIRED @ 20 PSI RESIDUAL:	1,625	2,125	1,750	1,500	1,750
MAX. STORAGE HEIGHT:	16'	16'	16'	16'	16'

EX. STATIC WATER PRESSURE IS 55.0+ psi IN STREET.

**SNWA CONSTRUCTION NOTES:**  
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**APPROVED FOR CONSTRUCTION**  
DATE: 3/12/08  
BY: [Signature]

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Office #: (702) 876-3474 • Fax #: (702) 876-1323

**CENTRAL CAREER & TECH SCHOOL**  
@ ROBIN ST. AND VEGAS DR.  
OWNER/DEVELOPER: CLARK COUNTY SCHOOL DISTRICT  
CONSTRUCTION MANAGEMENT DIVISION  
4828 S. PEARL STREET  
LAS VEGAS, NEVADA 89121  
(702) 799-9695

**UTILITY & STREETLIGHT PLAN - PAGE 3**

DATE: 3/12/08  
PROJECT: 2008000000  
SHEET NO.: 312 OF 321  
REVISIONS:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

**PROFESSIONAL ENGINEER - STATE OF NEVADA**  
BRANDON A. POTTS  
Exp: 12/31/09  
CIVIL  
No. 13121

**C4.03**  
20 OF 32