

REVISIONS			
REV	DESCRIPTION	DATE	BY

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 AND OVERHEAD 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.

Call before you Dig
 Avoid overhead power line contact
 Call before you OVERHEAD
 1-800-377-2800
 1-702-227-2929

SANITARY SEWER MANHOLE TALBE									
MH#	DIA/BASE	STATION/OFFSET ALIGNMENT	RIM	INVERTS IN INVERT OUT	MH#	DIA/BASE	STATION/OFFSET ALIGNMENT	RIM	INVERTS IN INVERT OUT
PUBLIC	48"	13+40.30-13.00 LT.	2668.8	82.42	18	48"	ON-SITE	2904.6	91.75
PUBLIC	48"	9+90.32-13.00 LT.	2685.0	74.87	19	48"	ON-SITE	2900.0	91.90
PUBLIC	48"	13+33.72-10.00 LT.	2685.7	78.80	20	48"	ON-SITE	2902.4	91.74
PUBLIC	48"	9+83.22-10.00 LT.	2688.0	78.75	21	48"	ON-SITE	2902.0	91.78
PUBLIC	48"	52+50.68-8.87 RT.	2707.0	97.59	22	48"	ON-SITE	2902.0	91.50
PUBLIC	48"	50+91.50-5.84 RT.	2727.0	12.00	23	48"	ON-SITE	2907.1	93.27
PUBLIC	48"	49+50.41-5.00 RT.	2724.0	17.00	24	48"	ON-SITE	2903.2	95.65
PUBLIC	48"	45+68.49-16.00 RT.	2744.7	35.87	25	48"	12+50.00-2.00 RT.	2929.7	21.80
PUBLIC	48"	41+88.49-16.00 RT.	2765.8	40.61	26	48"	10+05.00-2.00 RT.	2939.4	30.17
PUBLIC	48"	37+46.49-16.00 RT.	2791.0	42.78	27	48"	24+16.18-10.08 RT.	2878.0	41.68-12, 40.68-24
PUBLIC	48"	33+22.83-16.00 RT.	2815.0	43.58	28	48"	WASHBURN	40.48-24	41.18
PUBLIC	48"	30+26.00-16.00 RT.	2834.5	24.48	29	48"	32+73.22-8.00 LT.	2873.3	41.98
PUBLIC	48"	28+90.00-16.00 RT.	2855.3	39.29	30	48"	29+73.22-8.00 LT.	2868.9	43.98
PUBLIC	48"	20+42.63-2.00 RT.	2891.2	76.00	31	48"	25+40.07-8.50 LT.	2859.1	43.32
PUBLIC	48"	18+76.76-2.00 RT.	2907.8	88.42-12	32	48"	24+68.71-8.50 LT.	2858.1	43.91
PRIVATE	48"	ON-SITE	2904.2	90.78	33	48"	23+92.00-8.50 LT.	2857.2	43.52
PRIVATE	48"	ON-SITE	2901.2	92.83	34	48"	ALPINE RIDGE	2857.2	43.78
					35	48"	ALPINE RIDGE	2877.3	41.02

WATER MAIN JOINT DEFLECTION (PVC, 4" - 24")
 PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.08.01 AND 2.08.02. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

- NOTE**
- ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.
 - ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM DRAIN CROSSINGS AND CLEARANCES.
 - THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

NOTE
 THIS SHEET IS FOR OVERALL VIEW OF UTILITIES ONLY. REFER TO SHEET C5.02 THROUGH C5.10 FOR COMPLETE UTILITY INFORMATION.

WASTEWATER FLOW CALCULATIONS

FACILITY TYPE	BUS MAINTENANCE FACILITY
AVERAGE FLOW IN MGD	0.0048 MGD
PEAK FLOW IN MGD	0.0157 MGD

FIRE DEPARTMENT SIGN-OFF
 FUEL STATION
 FIRE FLOW REQUIREMENT IS: 1,500 GALLONS PER MINUTE (50% REDUCTION) AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
 SQUARE FOOTAGE: 5,740 S.F.
 LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: S.F.
 BUILDING HEIGHT: 18'-3" FEET
 NUMBER OF STORIES: 1 FLOORS
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY: M
 FULL AUTOMATIC SPRINKLERS SYSTEM: NO

REVIEWED BY: See coversheet 10-28-11 DATE: STATE FIRE MARSHALL

FIRE DEPARTMENT SIGN-OFF
 BUS WASH BUILDING
 FIRE FLOW REQUIREMENT IS: 2,750 GALLONS PER MINUTE (50% REDUCTION) AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
 SQUARE FOOTAGE: 3,094 S.F.
 LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: S.F.
 BUILDING HEIGHT: 28.5' FEET
 NUMBER OF STORIES: 1 FLOORS
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY: S-2
 FULL AUTOMATIC SPRINKLERS SYSTEM: NO

REVIEWED BY: See coversheet 10-28-11 DATE: STATE FIRE MARSHALL

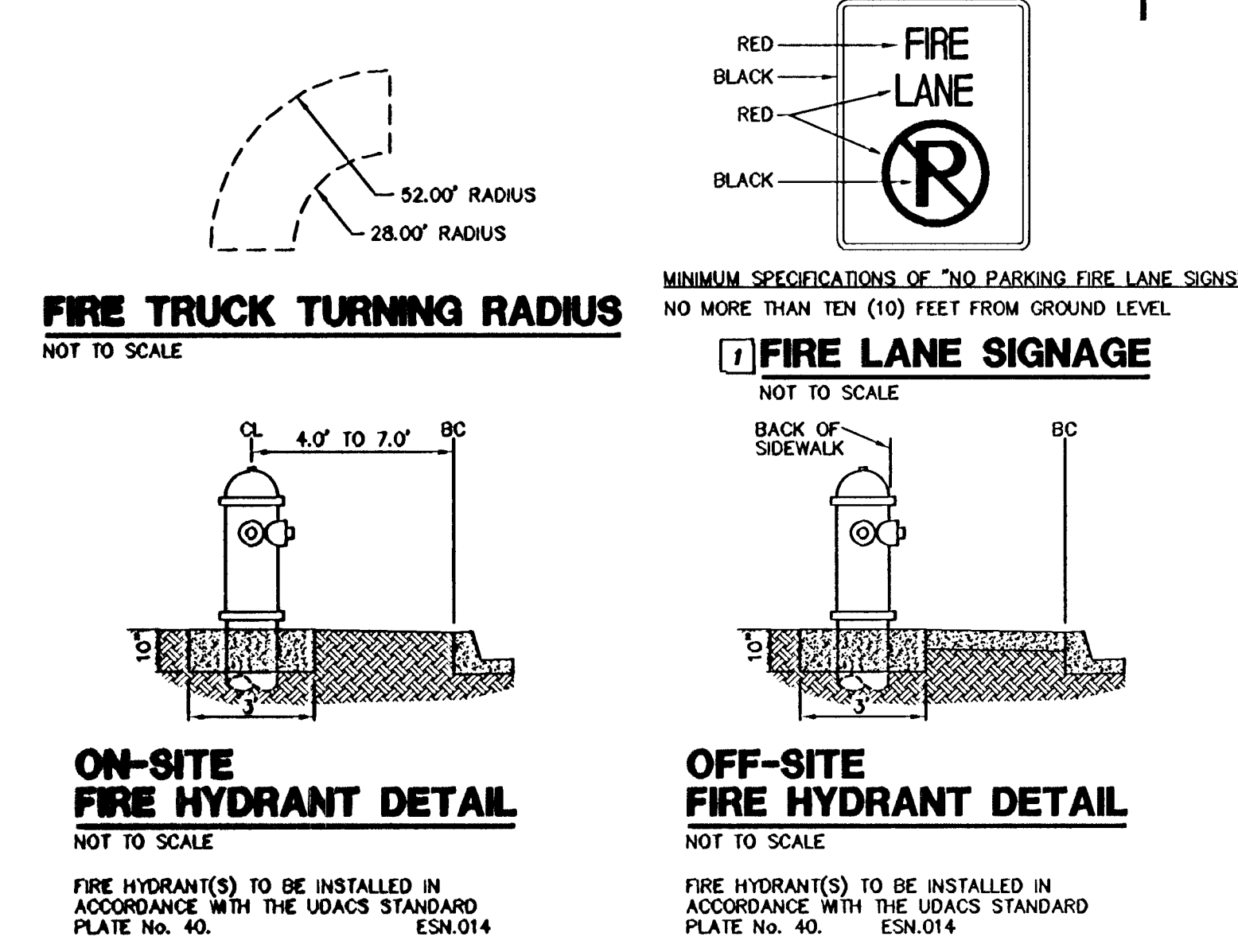
FIRE DEPARTMENT SIGN-OFF
 MAINTENANCE BUILDING
 FIRE FLOW REQUIREMENT IS: 2,750 GALLONS PER MINUTE (50% REDUCTION) AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
 SQUARE FOOTAGE: 39,931 S.F.
 LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: S.F.
 BUILDING HEIGHT: 32 FEET
 NUMBER OF STORIES: 1 FLOORS
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY: B, A-2, S-1
 FULL AUTOMATIC SPRINKLERS SYSTEM: YES

REVIEWED BY: See coversheet 10-28-11 DATE: STATE FIRE MARSHALL

BASIS OF BEARING
 NORTH 00°05'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 38 TOWNSHIP 19 SOUTH, RANGE 59 EAST, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS FILE 89, PAGE 3 OF SURVEYS.

BENCHMARK
 CITY OF LAS VEGAS BENCHMARK 5LV99 36N6
 A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
 ELEVATION = 2851.24 FEET (869.059 METERS) NAVD 1988 DATUM



VERNON HARKINS
 EXP. 8/30/13
 CIVIL
 No. 009938
 10/20/11

CLARK COUNTY SCHOOL DISTRICT
 DESIGN MANAGEMENT / PLANNING AND DESIGN
 LAS VEGAS, NEVADA 89121
 4170 McLEED DRIVE

KGA ARCHITECTURE
 9075 West Diablo Drive, Third Floor 1701 Directors Boulevard, Suite 770
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CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY
 MASTER UTILITY/FIRE ACCESS PLAN

SHEET NO. C5.01
 SHEET 57 OF 83
 CLV #41249 715-183
 HTE #11-19927