

1. ALL WORK AND MATERIALS NOT IN ACCORDANCE WITH THE LATEST "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA", IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

- CITY OF NORTH LAS VEGAS DEPT. OF PUBLIC WORKS
STREET LIGHTING NOTES

1. ALL BARRICADING, CONSTRUCTION, SIGNING AND TRAFFIC DELINEATION SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WORK ZONE TRAFFIC CONTROL HANDBOOK" (MUTCD). CONTACT THE CITY TRAFFIC ENGINEER FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS.

- CITY OF NORTH LAS VEGAS DEPT. OF PUBLIC WORKS
GENERAL WATER LINE CONSTRUCTION NOTES

13. CORPORATION STOP, ANGLE METER STOP, AND SERVICE LATERAL SHALL BE THE SAME SIZE.
14. METER ASSEMBLY CONSISTING OF ANGLE METER STOPS, ANGLE TAIL PIECE AND IDLER SHALL BE CENTERED IN METER BOX.
15. THE TOP OF ALL ANGLE METER STOPS SHALL BE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 8 INCHES BELOW METER BOX COVER.
16. ALL NEW FIRE HYDRANTS TO BE INSTALLED SHALL CONFORM TO THE MOST CURRENT EDITION OF THE UNIFORM STANDARD SPECIFICATIONS, SUBSECTION 629.03.14, EXCEPT THAT A 5 1/4 INCH VALVE OPENING SHALL BE REQUIRED.
17. PRIOR TO FINAL ACCEPTANCE, ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED AND CERTIFIED BY A PROPERLY LICENSED AND CERTIFIED TESTER APPROVED BY THE CITY OF NORTH LAS VEGAS.
18. AS-BUILT DRAWINGS, PER CITY OF NORTH LAS VEGAS' STANDARDS, MUST BY SUBMITTED TO THE UTILITIES DIVISION PRIOR TO FINAL ACCEPTANCE.

1. CURB & GUTTER WITH A GRADE OF LESS THAN 0.4% SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON POSSIBLE AFTER CONSTRUCTION.

- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL & VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION & EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS TO OFF-SITE PROPERTIES. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER.
3. ALL MANHOLES, WATER VALVES AND CLEANOUTS THAT LIE WITHIN LIMITS OF ROADWAY CONSTRUCTION SHALL BE PLACED AT SURFACE LEVEL. AFTER PLACEMENT OF THE BASE MATERIALS AND ASPHALT PAVEMENT, THE MANHOLES, WATER VALVES AND CLEANOUTS SHALL BE BROUGHT TO FINISH GRADE AND A COLLAR SHALL BE CONSTRUCTED FOR EACH MANHOLE. INSPECTORS ARE TO BE NOTIFIED IN ADVANCE TO INSPECT WORK AT THE TIME OF ADJUSTMENT.
4. WHERE SIDEWALK IS NOT REQUIRED AT THE TIME OF STREET CONSTRUCTION, ALL UTILITY BOXES AND VAULTS TO BE LOCATED WITHIN THE FUTURE SIDEWALK AREA MUST BE CONSTRUCTED TO FINISH GRADE OF THE FUTURE SIDEWALK. THIS IS TO PREVENT PONDING OF LANDSCAPE IRRIGATION WATER AND INFILTRATION INTO THE BOXES OR VAULTS.
5. WHERE OTHER AGENCIES, SUCH AS THE NEVADA DEPARTMENT OF TRANSPORTATION, HAVE JURISDICTION WITHIN THE PROJECT AREA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AGENCY'S APPROVAL PRIOR TO START OF CONSTRUCTION.
6. ALL CONSTRUCTION & MATERIALS SHALL BE IN ACCORDANCE WITH "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA. LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS" FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA, LATEST ISSUE; ANY OTHER APPLICABLE APPROVED STANDARDS IS BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; ALL LOCAL CODES AND ORDINANCES APPLICABLE EXCEPT AS NOTED IN THESE PLANS.
7. THE EXISTENCE & LOCATION OF ANY UNDERGROUND UTILITY PIPE STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THE DRAWINGS. EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR.
EXISTING UTILITY SERVICE (ATERALS) ARE NOT SHOWN ON THESE PLANS AND CONTRACTOR IS ADVISED TO CALL 1/800/222-BEFORE DIGGING.

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH NORTH
VEGAS' STANDARD SPECIFICATIONS AND DRAWINGS.

- ON ANY NEW HOMES OR BUILDING CONSTRUCTION, ACCESSIBLE HYDRANTS SHALL BE INSTALLED BEFORE ACTUAL CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH ADEQUATE WATER SUPPLY.
- PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE COMPLETED BEFORE APPROVAL OF HYDRANTS BY THE NORTH LAS VEGAS FIRE DEPARTMENT CAN BE OBTAINED.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN SIX (6) FEET OF DRIVEWAY, POWER POLE, LIGHT STANDARD OR ANY OTHER OBSTACLE OR WITHIN FIFTEEN (15) FEET OF A CURB RETURN OR DRIVEWAY OF INDUSTRIAL OR COMMERCIAL AREA.

AC	ASPHALTIC CONCRETE	MH	MANHOLE
ACP	ASBESTOS CEMENT PIPE	MIN	MINIMUM
ADJ	ADJUST	NO	NUMBER
BC	BEGINNING OF CURB OR BACK OF CURB	OC	ON CENTER
BCR	BEGINNING OF CURB RETURN OR BACK OF CURVE RADIUS	OD	OUTSIDE DIAMETER
BDRY	BOUNDARY	P	POWERLINE
BEG	BEGIN	PC	POINT OF CURVATURE
BM	BENCHMARK	PCC	POINT OF COMPOUND CURVATURE
BSW	BACK OF SIDEWALK	PG	PAD GRADE
BVC	BEGIN VERTICAL CURVE	PHL	PLASTIC HIGH PRESSURE
C & G	CURB AND GUTTER	PL	PROPERTY LINE
CI	CURB FACE	PP	POWER POLE
CIP	CAST IRON PIPE	PRC	POINT OF REVERSE CURVE
CL	CENTERLINE	PROP	PROPOSED
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENT
CONC	CONCRETE	P.U.E.	PRIVATE ACCESS & UTILITY EASEMENT
CONST	CONSTRUCT	PVC	POLY VINYL CHLORIDE PIPE
CD	DEPRESSED CURB	PVI	POINT OF VERTICAL INTERSECTION
DI	DROP INLET	PVM	PAVEMENT
DIA	DIAMETER	Q	RATE OF SLOW
DIP	DUCTILE IRON PIPE	R/C	REINFORCED CONCRETE PIPE
DMH	DROP MANHOLE	RT	RIGHT
EC	END OF CURVE	R/W	RIGHT-OF-WAY
ECR	END OF CURB RETURN	SS	SANITARY SEWER
EL	ELEVATION	SD	STORM DRAIN
EVC	END OF VERTICAL CURVE	SHS	STEEL HIGH PRESSURE
EX	EXISTING	SHT	SHEET
FC	FACE OF CURB	SP MH	SPECIAL MANHOLE
FF	FINISHED FLOOR	STA	STATION
FG	FINISHED GRADE	STD	STANDARD
FH	FIRE HYDRANT	STL	STEEL
FI	FLOW LINE	SW	SIDEWALK
G	GAS	T	TELEPHONE
GB	GRADE BREAK	TC	TOP OF CURB
HT	HIGH OR HEIGHT	TMH	TOP OF MANHOLE
HOR	HORIZONTAL	TRANS	TRANSITION
HP	HIGH POINT	TSC	TRAFFIC SIGNAL CONDUIT
ID	INSIDE DIAMETER	TSW	TOP OF SIDEWALK
INV	INVERT	VC	VERTICAL CURVE
LAT	LATERAL	VCT	VERTIFIED CLAY PIPE
LF	LINEAL FEET	VERT	VERTICAL
LT	LEFT	VG	VALLEY GUTTER
MAX	MAXIMUM	W	WATER

THE FOLLOWING ARE THE REQUIREMENTS THAT MUST BE FOLLOWED WHEN THERE IS A WATER-SEWER CROSSING:

WHEN PROTECTION OF THE WATER LINE IS CONSIDERED THE MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED ON THE SEWER/STORM LINE. IF THIS DISTANCE CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS OR THE WATER LINE MUST BE PLACED UNDER THE SEWER LINE, THE SEWER/STORM LINE MUST BE CONSTRUCTED WITH ANY ONE OF THE FOLLOWING:

- A. EXTRA HEAVY CAST IRON OR DUCTILE IRON PIPE.
- B. WATER SUPPLY QUALITY MATERIAL MEETING AWWA STANDARDS.
- C. ENCASUREMENT WITH 4 INCHES MINIMUM OF CONCRETE SLEEVING WITH WATER QUALITY PIPE.

EACH OF THESE PROVISIONS MUST BE EXTENDED FOR 10' ON EITHER SIDE OF THE WATER LINE AT 90 DEGREES CROSSING.

REFERENCE SECTION 2.19.02 U.D.A.C.S.

Avoid overhead power line contact. It's costly.	Avoid cutting underground utility lines. It's costly.
---	---

**Call
before you
Overhead**

1-702-593-6111

NEVADA POWER ENVIRONMENT AND
SAFETY SERVICES DEPARTMENT

**Call
before you
Dig**

1-800-227-2600

	EXISTING	PROPOSED
RIGHT OF WAY		
CENTERLINE		
SIDEWALK, CURB & GUTTER		
INDEX CONTOUR		
INTERMEDIATE CONTOUR		
SEWER MAIN		
SEWER MANHOLE		
SEWER LATERAL		
WATER MAIN		
WATER METER		
WATER VALVE		
WATER TEE OR BEND		
FIRE HYDRANT		
STORM DRAIN PIPE		
STORM DRAIN MANHOLE		
STORM DRAIN INLET		
STREETLIGHT 250 WATT H.P.S.		
STREETLIGHT 100 WATT H.P.S.		
POWER POLE		
SIGN		
STUB & CAP		
LOT NUMBER	42	42
PAD ELEVATION	77.3	77.3
RATE OF GRADE	0.50%	0.50%
ELEVATION	76.59 EX TC	76.59 IC
DRAINAGE SWALE HIGH POINT		
DRAINAGE SWALE		
2 : 1 SLOPE		
BLOCK WALL - SCREEN		
BLOCK WALL - RETAINING		
BLOCK WALL ELEVATIONS	96.5 TW 86.5 TRW	TOP OF SCREEN WALL TOP OF RETAINING WALL TOP OF FOOTING

A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE-DESIGN EXPLORATION AND TESTING.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERCEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH S BEDDING AND BACKFILL OF TYPE II GRAVEL.
5. ALL MANHOLES IN PAVED STREETS 80 FOOT RIGHT-OF-WAY AND LARGER, SHALL HAVE CONCRETE CO. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12 INCH DIAMETER SIZE. CONNECTIONS TO 15 INCHES OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
6. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18 INCHES UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH OF THE CENTERLINE OF THE WATER MAIN.
7. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
8. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE-TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.
9. INSTALLATION OF CURVED SEWER REQUIRES SPECIAL CONSTRUCTION PROCEDURES AND INSPECTIONS. CONTACT CITY OF LAS VEGAS CONSTRUCTION SERVICES PRIOR TO INSTALLATION.

DESIGNED: MAP
DRAWN: MAP
CHECKED: NSW
JOB No: 97V085
HORIZ: NONE
VERT: NONE

Carter :: Burgess
*Consultants in Planning, Engineering, Architecture,
 Construction Management and Related Services*

2955 East Sunset Road, Suite 105
 Las Vegas, NV 89120
 (702) 798-4007 Fax (702) 798-7056

*VICTORY II
GREYSTONE HOMES*

GENERAL NOTES

PROJECT:

DESCRIPTION:

SHE

2 OF 24

\\G7V085\DESIGN\PHASE1\7085M702 Wed Oct 15 16:25:30 1997 Mark A. Prokowsk

