GENERAL PROJECT REQUIREMENTS AND GENERAL NOTES

A. ALL MAPS, TECHNICAL STUDIES, REPORTS, DESIGNS, CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SPECIAL TECHNICAL REQUIREMENTS ASSOCIATED WITH THE PROJECT AND IMPROVEMENTS PRESENTED HEREIN HAS BEEN ACCOMPLISHED UNDER THE SUPERVISION OF RESPONSIBLE PROFESSIONAL(S) HAVING THE APPROPRIATE REGISTRATION TO SERVE IN THIS CAPACITY BASED ON THE SCOPE OF THIS SPECIFIC PROJECT, AND IN ACCORDANCE WITH THE STATUTORY PROVISIONS OF THE NEVADA REVISED STATUTES (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC) INCLUDING:

NRS 278, 338, NRS 623, NRS 625; NAC 338, NAC 623 AND NAC 625

CERTIFICATION SIGNIFYING COMPLIANCE WITH STATUTORY AND RELATED ADMINISTRATIVE CODE REQUIREMENTS IS HEREBY PROVIDED BY THE RESPONSIBLE PROFESSIONAL'S IN THE FORM OF A STAMP OR SEAL PLACED ON THE PROJECT DOCUMENTS.

B. THE PROJECT AND ALL IMPROVEMENTS RELATED THERETO AS ILLUSTRATED ON THE PROJECT DRAWINGS MUST CONFORM TO NORTH LAS VEGAS MUNICIPAL CODE INCLUDING THE TITLES AND CHAPTERS NOTED BELOW:

TITLE 2 CHAPTER 2.36 ADMINISTRATIVE FEES
TITLE 8 CHAPTER 8.16 FIRE CODE
TITLE 10 CHAPTER 10.16 TRAFFIC CONTROL DEVICES
TITLE 10 CHAPTER 10.52 TEMPORARY TRAFFIC CONTROL REGULATIONS
TITLE 12 CHAPTER 12.08 PUBLIC WORKS PROJECT PERMIT AND PERFORMANCE REGULATIONS
TITLE 13 PUBLIC SERVICES
TITLE 15 UNIFORM REGULATIONS FOR THE CONTROL OF DRAINAGE
TITLE 16 SUBDIVISIONS

IT IS EXPECTED THAT THESE TITLES AND CHAPTERS, AS A MINIMUM, WILL BE APPLIED ON A PROJECT SPECIFIC BASIS AND NOT CONSTRUED TO BE ALL INCLUSIVE OR EXCLUSIVE. THE PROJECT IS ALSO EXPECTED TO CONFORM WITH REVISIONS IN THE NORTH LAS VEGAS MUNICIPAL CODE AS IT MAY BE REVISED FROM TIME TO TIME.

C. PROJECT REVIEW BY REPRESENTATIVES OF THE CITY OF NORTH LAS VEGAS IS INTENDED TO COMPLEMENT AND ASSIST THE RESPONSIBLE PROFESSIONAL(S) IN ADVANCING A PROJECT THAT IS IN COMPLIANCE WITH CITY OF NORTH LAS VEGAS REQUIREMENTS, AND IS CONSISTENT WITH PUBLIC BENEFIT, HEALTH, SAFETY, AND WELFARE. REVIEW IS NOT AN ASSURANCE OF PROJECT FEASIBILITY, PROFESSIONAL AND TECHNICAL ACCURACY, OR CONFORMANCE WITH SPECIAL CONDITIONS IMPOSED BY PUBLIC AGENCIES, INCLUDING THE NORTH LAS VEGAS PLANNING COMMISSION.

D. APPROVAL OF THESE IMPROVEMENT PLANS AND SPECIFICATIONS IS MADE BASED ON THE REPRESENTATIONS MADE BY THE PROFESSIONAL(S) THAT THEY HAVE DISCHARGED THEIR RESPONSIBILITIES AND PREPARED COMPLETE DOCUMENTS WHICH COMPLY WITH CITY OF NORTH LAS VEGAS REQUIREMENTS FOR CONSTRUCTION OF THE IMPROVEMENTS DEPICTED HEREIN.

E. IF CONSTRUCTION HAS NOT COMMENCED WITHIN, OR IN THE EVENT OF AN INTERRUPTION IN CONSTRUCTION FOR A PERIOD OF, ONE (1) YEAR AFTER THE MOST RECENT APPROVAL DATE NOTED HEREON, THESE IMPROVEMENT PLANS MUST BE RESUBMITTED FOR EVALUATION BY THE CITY OF NORTH LAS VEGAS FOR POSSIBLE DESIGN UPDATE.

STANDARD SPECIFICATION AND STANDARD DRAWINGS FOR WATER LINE CONSTRUCTION

A. ALL WATER IMPROVEMENTS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL CONFORM TO THE STANDARDS DESCRIBED BELOW, AND IN ORDER OF THE PRECEDENCE SHOWN.
1. "CITY OF NORTH LAS VEGAS MUNICIPAL WATER SERVICE DISTRICT SERVICE RULES AND REGULATIONS," LATEST EDITION.
2. "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS, CLARK COUNTY NEVADA," LATEST EDITION.
3. "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST EDITION.

B. EXCEPTIONS TO THESE STANDARDS ARE NOTED BELOW:
1. NO WATER MAIN MAY BE SHUT DOWN TO MAKE CONNECTIONS WITHOUT PRIOR APPROVAL OF THE CITY OF NORTH LAS VEGAS REPRESENTATIVE.
2. MATERIALS USED FOR WATER DISTRIBUTION FACILITIES SHALL BE INCLUDED ON THE "CITY OF NORTH LAS VEGAS APPROVED MATERIALS LIST," LATEST REVISION, OR SPECIFICALLY IDENTIFIED AND APPROVED ON THESE PLANS.
3. ALL WATER METERS TWO (2) INCHES AND SMALLER SHALL BE OBTAINED FROM THE CITY OF NORTH LAS VEGAS. REQUESTS FOR WATER METERS MUST BE MADE TO THE NORTH LAS VEGAS UTILITIES DIVISION AT LEAST ONE (1) BUSINESS DAY PRIOR TO PICKUP. (TELEPHONE NUMBER (702)633-1277).
4. THE CITY OF NORTH LAS VEGAS' TRENCH BACKFILL POLICY, DATED AUGUST 15, 1996 SHALL BE IMPLEMENTED FOR THIS PROJECT.

C. MODIFICATIONS AND CLARIFICATIONS TO THESE STANDARDS ARE AS NOTED BELOW:
1. ALL SERVICE LATERALS TWO (2) INCHES AND SMALLER SHALL BE COPPER TUBING WITH APPROVED SERVICE SADDLES. CORPORATION STOPS AND ANGLE METER STOPS SHALL BE THE SAME SIZE AS THE SERVICE LATERAL. ANGLE METER STOPS AND METER SHALL BE CENTERED IN THE METER BOX.
2. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE CITY OF NORTH LAS VEGAS REPRESENTATIVE.
3. ALL METER BOXES SHALL BE EQUIPPED WITH TRAFFIC BEARING COVERS AND INSTALLED TO THE FINISH DESIGN GRADE AND ELEVATION. IF SUCH IS NOT SHOWN ON THE PLANS, THE ELEVATION WILL BE ESTABLISHED BY THE CITY OF NORTH LAS VEGAS REPRESENTATIVE.
4. ALL VALVES WILL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY GUTTERS, AND CURB GUTTERS.
5. NO UTILITY BOXES SHALL BE LOCATED IN DRIVEWAY APPROACHES, UNLESS APPROVED BY THE UTILITIES DIVISION.
6. ALL NEW FIRE HYDRANTS SHALL HAVE A 5 1/4-INCH VALVE OPENING.
7. WARNING TAPE SHALL BE REQUIRED ABOVE ALL WATER MAINS, SERVICES LATERALS THAT ARE SIX (6) INCHES AND LARGER, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN LINE.
8. ALL WATER MAINS SHALL BE FILLED, PRESSURE TESTED TO 200 PI, DISINFECTED, FLUSHED, REFILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE CITY OF NORTH LAS VEGAS WATER DISTRIBUTION SYSTEM. WATER QUALITY SAMPLES WILL BE COLLECTED BY THE CITY. CONTACT CITY OF NORTH LAS VEGAS UTILITY DIVISION TWENTY-FOUR (24) HOURS IN ADVANCE TO SCHEDULE SAMPLING.
9. ALL BACK FLOW PREVENTION ASSEMBLIES SHALL BE TESTED AND CERTIFIED BY THE CITY OF NORTH LAS VEGAS PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. CONTACT CITY OF NORTH LAS VEGAS UTILITY DIVISION TWENTY-FOUR (24) HOURS IN ADVANCE TO SCHEDULE TESTING.
10. RECORD DRAWINGS SHALL BE PREPARED, SIGNED AND SUBMITTED TO THE CITY OF NORTH LAS VEGAS REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE OF ANY WATER DISTRIBUTION FACILITIES TO BE OWNED, OPERATED OR MAINTAINED BY THE CITY OF NORTH LAS VEGAS.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-432-5300
AND
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

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

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 OR 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.

STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR GENERAL CONSTRUCTION

A. ALL IMPROVEMENTS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA," LATEST EDITION. APPROVED REVISIONS TO THESE STANDARDS ARE POSTED ON THE REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA WEBSITE.

B. EXCEPTIONS TO THESE STANDARDS ARE NOTED BELOW:
1. ALL PROVISIONS DIRECTLY RELATED TO THOSE PROCEDURES USED TO SOLICIT COMPETITIVE BIDS AND TO AWARD AND EXECUTE CONTRACTS FOR PUBLIC AGENCY PROJECTS.
2. THE CITY OF NORTH LAS VEGAS TRENCH BACKFILL POLICY DATED AUGUST 15, 1996, SHALL HE IMPLEMENTED FOR THIS PROJECT. COPIES OF THE TRENCH BACKFILL POLICY CAN BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION SERVICES DIVISION, 50 EAST BROOKS AVENUE, NORTH LAS VEGAS, NEVADA 89030, 633-1320.
3. THE CITY OF NORTH LAS VEGAS POLICY REGARDING GRADING AND CONSTRUCTION ON OR IN CLOSE PROXIMITY TO GEOLOGIC FAULTS AND GROUND FISSURES. COPIES OF THE POLICY CAN BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION SERVICES DIVISION, 50 EAST BROOKS AVENUE, NORTH LAS VEGAS, NEVADA 89030, 633-1320.
4. WHERE ALLOWED, CURB AND GUTTER HAVING A DESIGN GRADE OF 0.5 PERCENT OR LESS SHALL BE CONSTRUCTED BY FORMING. FORM GRADES AND ELEVATIONS SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE AND WATER FLOW TESTED AS SOON AFTER PLACEMENT AS CURING ALLOWS.
5. "NO PARKING" ZONES AT CURB RETURNS, FIRE HYDRANT ZONES AND SCHOOL ZONES SHALL HE PAINTED RED TO THE LIMITS NOTED ON THE PLANS, OR IF NOT SHOWN ON THE PLANS, TO THE LIMITS ESTABLISHED BY THE CITY OF NORTH LAS VEGAS TRAFFIC ENGINEER.

C. MODIFICATIONS AND CLARIFICATIONS TO THESE STANDARDS ARE NOTED BELOW:
1. THE CONTRACTOR SHALL MAKE A PROJECT SITE VISIT WITH PLANS-IN-HAND PRIOR TO CONSTRUCTION TO CONFIRM PROJECT CONSTRUCTABILITY, AND SHALL IMMEDIATELY NOTIFY THE PROFESSIONAL OF ANY CONSTRUCTABILITY PROBLEMS.
2. INFORMATION NOTED ON THE PLANS CONCERNING THE EXISTENCE AND LOCATION OF EXISTING WET UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE CITY OF NORTH LAS VEGAS, PROFESSIONAL, AND OWNER MAKE NO ASSURANCES CONCERNING THE ACCURACY OF SUCH INFORMATION. THE CONTRACTOR SHALL EXERCISE CAUTION AND USE BEST AVAILABLE CONSTRUCTION TECHNIQUES TO DETERMINE THE ACTUAL LOCATION OF AND PROTECTION FOR ALL UNDERGROUND UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. AT A MINIMUM, THE CONTRACTOR SHALL:
CALL BEFORE YOU DIG 1-800-432-5300
CALL BEFORE YOU OVERHEAD 1-702-227-2929
3. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PROJECT PERMITS AND COMPLYING WITH ALL TERMS AND CONDITIONS IMPOSED BY THE PERMITTING AGENCIES. AGENCIES OTHER THAN THE NORTH LAS VEGAS PUBLIC WORKS DEPARTMENT THAT MAY HAVE JURISDICTION OR REGULATORY AUTHORITY CONCERNING THE PROJECT INCLUDE:
CITY OF NORTH LAS VEGAS BUILDING DEPARTMENT
CLARK COUNTY HEALTH DISTRICT – DIVISION OF AIR QUALITY MANAGEMENT
NEVADA DEPARTMENT OF TRANSPORTATION
NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION
US ARMY CORPS OF ENGINEERS
NEVADA DIVISION OF WATER RESOURCES
4. THE CONTRACTOR SHALL PROVIDE AT LEAST SEVENTY-TWO (72) HOURS NOTICE TO EACH OF THE FOLLOWING AGENCIES CONFIRMING THE SCHEDULED START OF CONSTRUCTION:

CITY OF NORTH LAS VEGAS UTILITIES DIVISION	(702) 633-1290
COX COMMUNICATIONS	(702) 385-3644
NEVADA POWER COMPANY	(800) 227-2600
SPRINT/CENTRAL TELEPHONE COMPANY	(800) 227-2600
SOUTHWEST GAS CORPORATION	(800) 227-2600

5. THE CONTRACTOR SHALL EXERCISE CAUTION AND USE CONSTRUCTION TECHNIQUES TO PROTECT AND PRESERVE EXISTING PERMANENT SURVEY MONUMEMTS. ALL SURVEY MONUMENTS DISTURBED SHALL BE REPLACED AND/OR REHABILITATED IN ACCORDANCE WITH STANDARDS BY A PROFESSIONAL LAND SURVEYOR RETAINED BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL EXERCISE CAUTION AND USE CONSTRUCTION TECHNIQUES TO PROTECT AND PRESERVE EXISTING PUBLIC AND PRIVATE FEATURES LOCATED IN CLOSE PROXIMITY TO OR ABUTTING IMPROVEMENTS SHOWN ON THESE PLANS. RESTORATION OF DAMAGED FEATURES SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY OF NORTH LAS VEGAS' REPRESENTATIVE.
7. THE LOCATION OF ALL SAWCUT LINES FOR THE PROJECT MAY BE DETERMINED BY THE CITY OF NORTH LAS VEGAS IF THE LOCATION IS NOT CLEARLY SHOWN ON THE PLANS OR IF EXISTING CONDITIONS REQUIRE ADJUSTMENT TO THE LOCATION SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE CITY OF NORTH LAS VEGAS' REPRESENTATIVE IN PROVIDING INGRESS AND EGRESS TO ABUTTING PROPERTIES, AND SHALL PROTECT SUCH PROPERTIES FROM PROJECT RELATED STORM WATER AND NUISANCE RUNOFF BY PROVIDING TEMPORARY POSITIVE DRAINAGE CONTROL.
9. PLANTMIX BITUMINOUS SHALL BE FINISHED TO A HEIGHT OF BETWEEN 3/8 INCHES AND 5/8 INCHES ABOVE THE LIP OF CURB GUTTERS AND VALLEY GUTTERS.
10. FOG SEAL SHALL BE APPLIED TO PLANTMIX BITUMINOUS SURFACES AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
11. TYPE V CEMENT SHALL BE USED FOR ALL OFFSET IMPROVEMENTS AND THE MIX SHALL BE DESIGNED FOR SOLUBLE SULFATES IN THE SUBGRADE OF 1.5 PERCENT OR GREATER BASED ON SUBGRADE MATERIAL SAMPLING AND TESTING. ALL MIX DESIGNS SHALL BE PROJECT SPECIFIC AND APPROVED BY THE CITY OF NORTH LAS VEGAS REPRESENTATIVE PRIOR TO PLACEMENTS.
12. ALL MANHOLES, VALVE BOXES, JUNCTION STRUCTURES, VAULTS AND CLEANOUTS THAT ARE LOCATED WITHIN THE ROADWAY LIMITS SHALL BE CONSTRUCTED TO, AND PLATED AT SUBGRADE LEVEL UNTIL SUCH TIME AS THE AGGREGATE BASE AND PLANTMIX BITUMINOUS SURFACE HAS BEEN COMPLETED. THEREAFTER, THESE ITEMS SHALL BE ADJUSTED TO FINISH GRADE.
13. UTILITY BOXES AND VAULTS LOCATED IN THE SIDEWALK AREA ARE TO BE CONSTRUCTED TO THE FINISH DESIGN GRADE. THE ELEVATION SHALL BE CONSISTENT WITH THAT REQUIRED FOR THE STANDARD CONCRETE CITY OF NORTH LAS VEGAS SIDEWALK EVEN IF THE CONCRETE SIDEWALK CONSTRUCTION IS DEFERRED TO A FUTURE DATE.
14. THE CONTRACTOR SHALL PROVIDE REASONABLE ACCOMMODATIONS FOR CITY OF NORTH LAS VEGAS PERSONNEL TO OBTAIN GPS/GIS DATA ON ALL UNDERGROUND UTILITIES AND INFRASTRUCTURE.
15. ALL OFF-SITE IMPROVEMENT SUBGRADE MUST BE CERTIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD.

NORTH LAS VEGAS BENCHMARK

REF. NO. 26
BENCHMARK NAME: NLV9131N4
RIVET AND 2" ROUND ALUMINUM DISK, STAMPED NORTH LAS VEGAS BM NO. NLV9131N4, SET IN THE TOP OF CURB, LOCATED APPROX. 14' WEST OF THE SOUTHWEST WEST BCR AT THE INTERSECTION OF ANN RD. AND VALLEY DRIVE.

ELEV. 674.368 METERS (NAVD '88)
2212.49 FEET

BASIS OF BEARINGS

SOUTH 01°08'46" WEST BEING THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) SECTION 31, TOWNSHIP 19 SOUTH, RANGE 61 EAST, M.D.M., AS SHOWN IN FILE 106, ON PAGE 82 ON FILE IN THE OFFICE OF THE CLARK COUNTY RECORDER, CLARK COUNTY, NEVADA.

GEOTECHNICAL

GEOTECHNICAL REPORT BY:
ACCLAIM MATERIAL TESTING & INSPECTION, LLC
FILE No.: 06030
DATE: MARCH 27, 2006
UPDATED: MARCH 28, 2007

STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR SEWER LINE CONSTRUCTION

A. ALL SEWER LINES (WASTEWATER COLLECTION SYSTEMS) SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL CONFORM TO THE STANDARDS DESCRIBED BELOW, AND IN ACCORDANCE WITH THE PRECEDENT SHOWN:
1. "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS. SOUTHERN NEVADA," LATEST EDITION.
2. "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA." LATEST EDITION.

B. EXCEPTIONS TO THESE STANDARDS ARE NOTED BELOW:
1. MATERIALS USED FOR WASTEWATER COLLECTION SYSTEMS SHALL BE INCLUDED ON THE CITY OF NORTH LAS VEGAS APPROVED MATERIALS LIST, LATEST EDITION, OR SPECIFICALLY IDENTIFIED AND APPROVED ON THESE PLANS.
2. THE CITY OF NORTH LAS VEGAS TRENCH BACKFILL POLICY, DATED AUGUST 15, 1996 SHALL BE IMPLEMENTED FOR THIS PROJECT.
3. THE CONTRACTOR SHALL INSCRIBE AN "S", 3-INCHES IN HEIGHT, INTO THE CURB AT THE POINT WHERE THE SEWER LATERAL ENTERS EACH SUBDIVISION LOT OR PRIVATE LAND PARCEL.

C. MODIFICATIONS AND CLARIFICATIONS TO THESE STANDARDS ARE NOTED BELOW:
1. RECORD DRAWINGS SHALL BE PREPARED, SIGNED AND SUBMITTED TO THE CITY OF NORTH LAS VEGAS PRIOR TO ACCEPTANCE OF ANY WASTEWATER COLLECTION SYSTEMS TO BE OWNED, OPERATED OR MAINTAINED BY THE CITY OF NORTH LAS VEGAS.

GENERAL GRADING AND DRAINAGE NOTES

1. PURSUANT TO CITY OF NORTH LAS VEGAS ORDINANCE NUMBER 1172, THE CONTRACTOR IS REQUIRED TO SECURE A GRADING PERMIT PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL SECURE A PERMIT FOR ANY OFF-SITE CONSTRUCTION.
3. THE CONTRACTOR'S OPERATIONS SHALL NOT TRESPASS BEYOND THE PROJECT PROPERTY LINES UNLESS A PERMIT OR WRITTEN AUTHORIZATION HAS BEEN OBTAINED FROM THE PROPERTY OWNER(S) INVOLVED. COPIES OF SUCH WRITTEN AUTHORIZATION SHALL BE FURNISHED TO THE CITY OF NORTH LAS VEGAS' REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.
4. THE CITY OF NORTH LAS VEGAS CONSTRUCTION SERVICES SHALL BE NOTIFIED ONE (1) WORKING DAY BEFORE ANY ON-SITE CONSTRUCTION WORK BEGINS.
5. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE APPROVED PLAN WILL REQUIRE SUBMITTAL OF A FORMAL REVISED PLAN FOR REVIEW AND APPROVAL.
6. ALL CONSTRUCTION SURVEY CONTROL SHALL BE DONE BY A LICENSED PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH APPLICABLE STATUTES AND CODES. THE CONTRACTOR SHALL PROVIDE COMPETENT RESOURCES TO ASSURE BUILDING PAD AND BUILDING FLOOR ELEVATIONS CONFORM TO THOSE SHOWN ON THE CONSTRUCTION DRAWINGS. FURTHERMORE, THE CONTRACTOR SHALL PROVIDE THE CITY OF NORTH LAS VEGAS BUILDING DEPARTMENT WITH:
A. CERTIFICATION OF "BUILDING FLOOR ELEVATIONS" IN CRITICAL DRAINAGE AREAS.
B. CERTIFICATES OF "BUILDING PAD ELEVATIONS" IN NONCRITICAL AREAS.
7. THE CONTRACTOR SHALL CERTIFY TO THE CITY OF NORTH LAS VEGAS CONSTRUCTION SERVICES DIVISION THAT ALL FILLS, FOUNDATIONS AND SUBGRADES MEET THE MINIMUM COMPACTION REQUIREMENTS. CERTIFICATION SHALL BE MADE PRIOR TO POURING CONCRETE.

GENERAL TRAFFIC NOTES

1. ALL BARRICADING, CONSTRUCTION SIGNING, TRAFFIC DELINEATION AND MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/ OR WORK ZONE TRAFFIC CONTROL HANDBOOK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SEE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. CONTACT THE CITY'S MANAGER OF ROADWAY OPERATION FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS.
2. IF THE PROJECT IMPROVEMENTS NECESSITATE, TEMPORARY REMOVAL AND /OR RELOCATION OF TRAFFIC CONTROL SIGNS, MARKINGS OR ANY OTHER TRAFFIC CONTROL DEVICES, THEY SHALL BE MAINTAINED THROUGHOUT THE ENTIRE DURATION OF THE PROJECT AND SHALL BE RESTORED TO THE SATISFACTION OF THE MANAGER OF ROADWAY OPERATION.
3. PERMANENT PAVEMENT MARKING SHALL BE REQUIRED FOR ALL RIGHTS-OF-WAY 80 FEET WIDE OR WIDER WHICH INCLUDE HALF STREET IMPROVEMENTS UNLESS OTHERWISE NOTED. NEW PAVEMENT MARKINGS DESIGNS SHALL INCORPORATE INTO ANY EXISTING BORDERING MARKINGS. PAINTED MARKINGS SHALL NOT BE USED FOR TEMPORARY CONDITIONS. ALL TEMPORARY MARKINGS SHALL BE A REMOVABLE GRADE TAPE. ALL OTHER MARKINGS SHALL BE PER CLARK COUNTY UNIFORM STANDARD DRAWING 244 THRU 248 AND MEET THE SATISFACTION OF THE MANAGER OF ROADWAY OPERATION.
4. ALL PERMANENT TRAFFIC CONTROL DEVICES REQUIRED BY MANAGER OF ROADWAY OPERATION SHALL BE PROPERLY INSTALLED IN ACCORDANCE LATEST EDITION OF THE MUTCD AND/OR THE RTC STANDARDS PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE STREETS, REGARDLESS OF THE STATUS OF THEIR COMPLETION.
5. FIBER OPTIC CONDUIT SCHEDULE 40 PVC IS REQUIRED ON ALL RIGHTS-OF-WAY 80 FEET OR WIDER. ON RIGHTS-OF-WAY 80 FEET WIDE, THE CONDUIT SIZE SHALL BE 3 INCHES. ON RIGHTS-OF-WAY 100 FEET WIDE, THE CONDUIT SIZE SHALL BE 4 INCHES UNLESS OTHERWISE SPECIFIED. PULL BOXES AND COVERS SHALL BE MADE OF REINFORCED POLYMER CONCRETE MATERIALS AND PULL BOX COVERS SHALL BE STAMPED WITH CNLV FIBER. PULL BOXES SHALL BE OF TYPE P 30 WITH STRAIGHT BOTTOM ENTRY AND EXITS. SPACING OF PULL BOXES SHALL BE 450 FEET, MAXIMUM 500 FEET APART, IF CONSTRUCTION LIMITS ARE LESS THAN 450 FEET, ONE PULL BOX SHALL BE INSTALLED. ALL FIBER CONDUIT AT LIMITS OF CONSTRUCTION SHALL BE STUBBED AND CAPPED 5 FEET PAST PROPERTY LINE AND /OR CONNECTED TO EXISTING FIBER CONDUIT. ALL CONDUIT SHALL BE CLEANED, BLOWN OUT, MANDREL (ED) AND SHALL HAVE A 200 LB. PULL LINE AND A NUMBER 8 WAG THW TRACE WIRE. PULL LINE AND WIRE SHALL BE SECURED AT BOTH ENDS AND CAPPED.
6. ALL INTERSECTIONS WITH 80 FEET / 80 FEET RIGHTS-OF-WAY AND GREATER SHALL HAVE CONDUITS FOR FUTURE TRAFFIC SIGNALS AND SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWING NUMBER 404.1306. FUTURE FIBER CONDUIT SHALL BE INTEGRATED INTO THE SIGNAL CONDUIT NETWORK. LOCATION OF FUTURE SIGNAL POLE FOUNDATION SHALL BE OF TYPE L AND LOCATED CENTER OF RADIUS AS IN ACCORDANCE WITH UNIFORM STANDARD DRAWING NUMBER 404.1300 UNLESS OTHERWISE NOTED.
7. ALL DEVELOPMENT PLANS SHALL HAVE A MASTER STREET LIGHTING AND TRAFFIC CONTROL (SIGNING AND STRIPING) PLAN SHEET CONTAINED IN THE SET WHICH INCLUDES ALL UNITS AND/OR PHASES OF THE PROJECT.
8. ALL TEMPORARY REGULATORY SIGNAGE SHALL BE GROUND MOUNTED IN ACCORDANCE WITH UNIFORM STANDARD DRAWING NUMBER 249 AND MEET THE MOST RECENT MUTCD REQUIREMENTS.

GENERAL STREETLIGHT NOTES

1. STREETLIGHTS SHALL BE HIGH PRESSURE SODIUM 240 VOLT WITH INTEGRAL TYPE REGULATOR BALLAST; CONTROLLED BY A 60 AMP, 240 VOLT CIRCUIT, TWO # 4 COPPER WIRE TYPE THW; RED AND BLACK COLORS PLUS ONE GREEN # 8 COPPER WIRE TYPE THW SHALL BE GROUNDED ON EACH STANDARD.
2. THE LOCATIONS OF CONDUIT ENDS OF ALL CONDUIT IN STRUCTURES OR TERMINATING AT CURBS SHALL BE MARKED BY A (X) AT LEAST 3 INCHES HIGH CUT INTO THE FACE OF CURBS, GUTTER, OR WALL DIRECTLY ABOVE THE CONDUIT. ALL CONDUITS AT LIMITS OF CONSTRUCTION SHALL BE STUBBED AND CAPPED 5 FEET PAST PROPERTY LINE AND / OR CONNECTED TO EXISTING STREET LIGHTING CONDUIT.
3. ALL CONDUITS SHALL BE 2 INCH PVC SCHEDULE 40 AND SHALL HAVE A MINIMUM OF 24 INCHES OF COVER IN ALL AREAS.
4. ALL CONDUITS FOR FUTURE USE SHALL BE BLOWN OUT WITH COMPRESSED AIR, CLEANED AND PROVIDED WITH A 200 POUND PULL LINE; ALL ENDS OF CONDUITS SHALL BE CAPPED. ALL PULL BOXES AND COVERS SHALL BE MADE OF REINFORCED POLYMER CONCRETE MATERIALS AND PULL BOX COVERS SHALL BE STAMPED WITH STREETLIGHT. ALL PULL BOXES SHALL BE # 3½, UNLESS OTHERWISE NOTED.
5. LAMP CHARACTERISTICS SHALL CONFORM IN GENERAL TO THE PROVISIONS OF THE CLARK COUNTY UNIFORM STANDARDS SPECIFICATIONS 623 L.02.03. WATTAGE SHALL BE AS SHOWN ON THE PLANS.
6. ALL SERVICE PANELS SHALL BE PER CLARK COUNTY UNIFORM STANDARD SPECIFICATION DRAWING NO. 330. THE PHOTO CELL SHALL BE A TYPE II, TORK 2007 OR EQUAL AND BE MOUNTED TO THE ON TOP OF THE NEAREST PERMANENT STREET LIGHT POLE. A SWITCH SHALL BE INCLUDED FOR MANUAL OPERATION (USS 623 L.02.06).
7. ALL CONSTRUCTION SHALL CONFORM TO UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CITY OF NORTH LAS VEGAS, AND UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY, NEVADA, UNLESS OTHERWISE NOTED.
8. CONSTRUCTION SERVICES (390-4407) SHALL BE NOTIFIED 24 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION OF THE WIRING MAKEUP /SERVICE POINT. A COMPLETED SET OF MYLAR AS-BUILDS MUST BE SUBMITTED TO CONSTRUCTION SERVICES UPON COMPLETION OF WORK.
9. STREETLIGHTS SHALL BE PLACED IN ACCORDANCE WITH UNIFORM STANDARD DRAWING NUMBER 320 THRU 320A, UNLESS OTHERWISE NOTED. STANDARDS AND MAST ARMS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-120.
10. STREETLIGHT SERVICE POINT LOCATIONS SHALL BE PROVIDED ON THE OFF-SITE IMPROVEMENTS PLANS AND AS-BUILT PLANS.
11. INTERNAL RESIDENTIAL STREETS AND EXTERNAL ARTERIAL, COLLECTOR STREETS SHALL HAVE SEPARATE SERVICE POINTS (RCOC / PEDESTALS), ALL SERVICES SHALL BE LIMITED TO 80 PERCENT CAPACITY.
12. AN EMPTY 2 INCH SCHEDULE 40 PVC SHALL BE PLACE BETWEEN INTERNAL AND EXTERNAL STREET LIGHTING CIRCUIT.
13. NO STREET LIGHTING CIRCUITS SHALL CROSS ANY ARTERIAL OR COLLECTOR STREETS (EXCLUDING FEEDERS AND HOME RUNS).

GENERAL FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH NORTH LAS VEGAS' STANDARD SPECIFICATIONS AND DRAWINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE 2000 UNIFORM FIRE CODE, ARTICLE 87, DURING CONSTRUCTION.
3. A KNOX KEY BOX IS REQUIRED ON ALL BUILDINGS AND SHALL BE LOCATED 5 FEET UP FROM THE GROUND AND AT THE RISER ROOM OR AT A LOCATION AGREED UPON BY THE FIRE DEPARTMENT. FOR MORE INFORMATION AND AN APPLICATION, CALL 633-1107.
4. A MINIMUM OF ONE FIRE DEPARTMENT APPARATUS ACCESS ROAD IS REQUIRED TO ALL BUILDINGS. A SECOND MEANS OF FIRE DEPARTMENT APPARATUS ACCESS MAY BE REQUIRED BY THE NORTH LAS VEGAS FIRE DEPARTMENT WHEN IT IS DETERMINED THAT A SINGLE MEANS OF ACCESS IS INSUFFICIENT. A MINIMUM OF TWO FIRE APPARATUS ACCESS ROADS ARE REQUIRED FOR GROUPS OF 25 OR MORE RESIDENTIAL UNITS.
5. RED-PAINTED CURBS AND APPROPRIATE SIGNAGE ARE REQUIRED TO MAINTAIN THE MINIMUM REQUIRED WIDTH OF THE ACCESS LANE. FOR LANES LESS THAN 32 FEET WIDE, BOTH SIDES OF THE LANE SHALL BE MARKED. FOR LANES LESS THAN 40 FEET WIDE BUT AT LEAST 32 FEET WIDE, ONE SIDE OF THE LANE MUST BE MARKED, AND ONLY PARALLEL PARKING IS ALLOWED ON THE OTHER SIDE OF THE LANE. SIGNAGE SHALL BE POSTED AT THE TWO ENDS OF THE FIRE LANE, AND ADDITIONALLY AS REQUIRED TO PROVIDE MAXIMUM SEPARATION OF 100 FEET BETWEEN SIGNS. SIGNAGE SHALL STATE "NO PARKING FIRE LANE"
6. GATES RESTRICTING TRAFFIC ACROSS ACCESS LANES SHALL BE OPERABLE BY THE FIRE DEPARTMENT. GATES SHALL BE ELECTRICALLY POWERED, PROVIDED WITH AN AVI LOOP, AND HAVE A BACK-UP BATTERY SYSTEM IN CASE OF NORMAL POWER LOSS. THE AVI LOOP SHALL BE LOCATED 10 FEET PERPENDICULARLY FROM THE FACE OF THE ACCESS GATE ALONG THE ROUTE OF ARRIVAL, 10 FEET FROM THE PUBLIC RIGHT-OF-WAY, AND THE LOOP SHALL BE MARKED BY WAY OF A GREEN REFLECTIVE MARKER ON THE ACCESS LANE. A FIRE DEPARTMENT PERMIT MUST BE OBTAINED PRIOR TO INSTALLING THE GATE(S).
7. DEAD-ENDS LONGER THAN 150 FEET SHALL BE PROVIDED WITH A CLEAR TURNAROUND WITH A DIAMETER OF 104 FEET.
8. FIRE HYDRANTS MUST BE SPACED AT A MAXIMUM SEPARATION OF 500 FEET IN RESIDENTIAL AREAS, 300 FEET IN COMMERCIAL/INDUSTRIAL AREAS, AND 1,000 WHERE NOT REQUIRED FOR STRUCTURES TO PROVIDE FOR TRANSPORTATION HAZARDS. HYDRANT SPACING MAY BE INCREASED BY 100 FEET IF ALL STRUCTURES WITHIN THE DEVELOPMENT ARE PROVIDED WITH SPRINKLER PROTECTION. THERE IS NO ALLOWABLE INCREASE FOR HYDRANTS INSTALLED FOR TRANSPORTATION HAZARDS.
9. ON ANY RESIDENTIAL OR COMMERCIAL CONSTRUCTION PROJECT, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE ACTUAL CONSTRUCTION COMMENCES. FIRE HYDRANTS SHALL BE PROVIDED WITHIN 300 FEET OF COMBUSTIBLE MATERIAL STORAGE AND FRAMING CONSTRUCTION. A HYDRANT FLOW TEST IS REQUIRED, WHICH SHALL INCLUDE STATIC PRESSURE AND WATER FLOW VOLUME SHOWING THE ABILITY TO MEET THE REQUIRED FIRE FLOW, AND MUST BE PRESENTED TO THE NORTH LAS VEGAS FIRE DEPARTMENT AND PUBLIC WORKS.
10. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN SIX (6) FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION OR WITHIN FIFTEEN (15) FEET OF A CURB RETURN OR DRIVEWAY IN AN INDUSTRIAL OR COMMERCIAL AREA.
11. THE MAXIMUM ALLOWABLE REDUCTION IN REQUIRED FIRE FLOW FOR SPRINKLERED FACILITIES IS 50% HIGH-RISE BUILDINGS, BUILDINGS MORE THAN THREE STORIES IN HEIGHT, AND BUILDINGS STOCKING HIGH-PILED COMBUSTIBLES AND/OR COMBUSTIBLE LIQUIDS MAY HAVE THEIR REQUIRED FIRE FLOW REDUCED BY A MAXIMUM OF 25%. THE MINIMUM REQUIRED FIRE FLOW FOR ANY STRUCTURE IS 1,500 GALLONS PER MINUTE.
12. WHEN AUTOMATIC FIRE PROTECTION IS REQUIRED, THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED AT THE DCDA AND WITHIN 100 FEET OF A CITY FIRE HYDRANT, PER U.D.S. PLATE 20B, DRAWING NO. FS2 (11-17-97). THE FDC SHALL BE LABELED WITH THE ADDRESS OF THE BUILDING(S) SERVED BY THE ASSOCIATED UNDERGROUND FIRE SERVICE MAIN.

NOTE

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.

H#23789 CLV dwg # 107V4956

STATE OF NEVADA · PROFESSIONAL ENGINEER · LAZELL H. PREATOR · Exp.12-31-07 · CIVIL · No.14982 · 10/1/07

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CHECKED: RG

NO.	DATE	DESCRIPTION	APP. BY

NOTE SHEET
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ANN ROAD AND DECATUR BLVD.
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SHEET C2
2 OF 7 SHEETS
CNLV# 29838