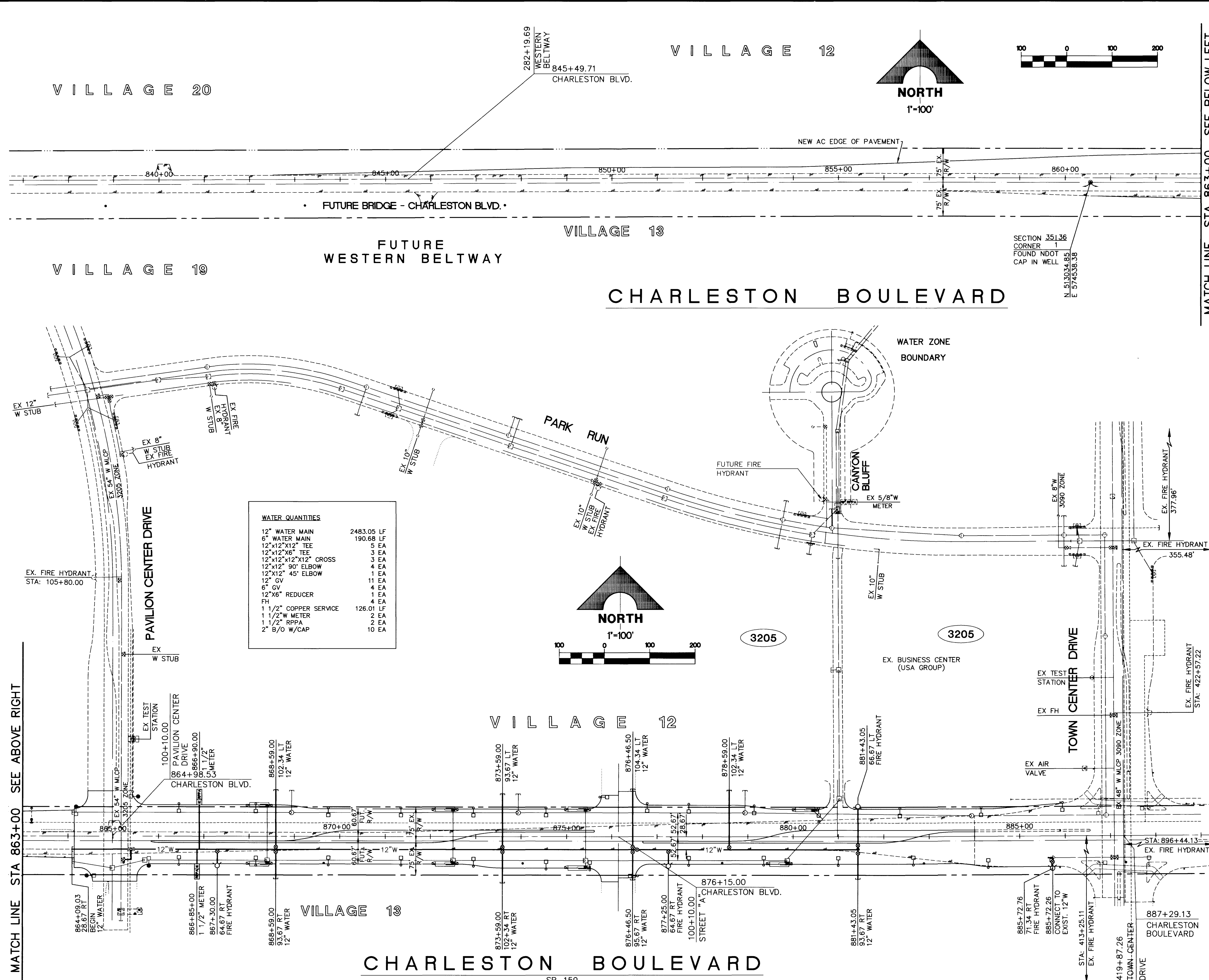




WATER QUANTITIES	
12" WATER MAIN	2483.05 LF
6" WATER MAIN	190.68 LF
12"x12"x12" TEE	5 EA
12"x12"x6" TEE	3 EA
12"x12"x12"x12" CROSS	3 EA
12"x12" 90° ELBOW	4 EA
12"x12" 45° ELBOW	1 EA
12" CV	4 EA
6" GV	1 EA
12"x6" REDUCER	4 EA
1 1/2" COPPER SERVICE	126.01 LF
1 1/2" W METER	2 EA
1 1/2" RPA	2 EA
2" B/O W/CAP	10 EA

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)
THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDED OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE.

3205 ZONE
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 30 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

SR-159
THIS PROJECT PROVIDES FOR THE INSTALLATION OF OFF-SITE MAINS ONLY AND DOES NOT PROVIDE OR IMPLY ANY WATER COMMITMENT.
NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED
AN APPROVED NDOT OCCUPANCY PERMIT WILL BE OBTAINED THROUGH THE DISTRICT PRIOR TO ANY CONSTRUCTION WITHIN THE NDOT RIGHT-OF-WAY.

APPROVAL:
[Signature]
LAS VEGAS VALLEY WATER DISTRICT
DATE: 11/10/98

NOTE
THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY. SEE INDIVIDUAL IMPROVEMENT DRAWINGS FOR EXACT DESIGN OF UTILITIES.

- ### LAS VEGAS VALLEY WATER DISTRICT NOTES
- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOURS NOTICE SHALL BE GIVEN TO LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
 - ALL WORK SHALL CONFORM TO THE LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
 - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STD. SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB CUTTERS.
 - THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
A. MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED, THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE. THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING AS SHOWN ON THESE PLANS:
A. POTABLE WATER SUPPLY QUALITY MATERIALS.
B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MIN)
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
 - WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES.
TEL: 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
 - CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOUR 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

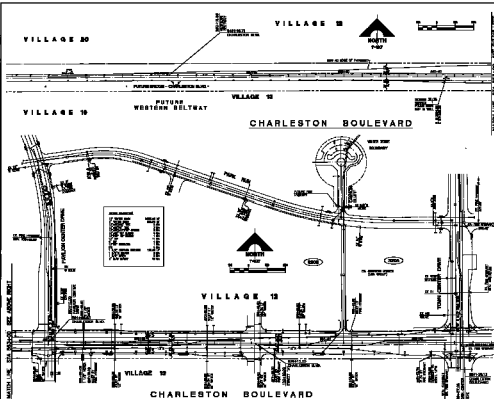
- ### CLV FIRE DEPARTMENT NOTES
- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS," "HYDRANT INSTALLATION INSTALLATION SPECIFICATIONS" AND ORDINANCE #3944.
 - AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A. KENNEDY GUARDIAN
B. MUELLER A-423 CENTURIAN
C. GLOW MODEL 2546 MEDALLION
 - ON ANY NEW HOME OR BUILDING INSTALLATION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
 - CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE NO. 3944 TO IDENTIFY FIRE HYDRANT LOCATIONS.
 - CONTRACTOR SHALL CALL THE LAS VEGAS BUILDING DEPARTMENT AT 228-2071 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE BACK FILLING.
 - PAINTING OF THE CURBS AND HYDRANTS AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE NO. 3944 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
 - A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
 - PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
 - A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
 - ALL ON-SITE FIRE MAIN MATERIALS MUST BE UL LISTED AND AWWA APPROVED.
 - FIRE HYDRANT SPACING:
RESIDENTIAL - 500 FEET UNSPRINKLERED, 1000 FEET SPRINKLERED.
COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 600 FEET SPRINKLERED.
 - WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS, HYDRANTS SHALL BE SPACED AT MAXIMUM ONE-THOUSAND FOOT (1,000') SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS.
 - NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN TWENTY FEET (20') OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
 - NO FIRE HYDRANT SHALL BE LOCATED WITHIN SIX FEET (6') OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
 - TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE FOUR (4) OR MORE FIRE HYDRANTS INSTALLED ON A SINGLE SYSTEM.
 - NOT MORE THAN TWO (2) HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
 - FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN TWENTY (20) FEET PROVIDED NO PARKING IS ALLOWED, NOT LESS THAN TWENTY-EIGHT FEET (28') IF PARALLEL PARKING IS ALLOWED ON ONE SIDE, AND NOT LESS THAN THIRTY-SIX FEET (36') IF PARALLEL PARKING IS ALLOWED ON BOTH SIDES. VERTICAL CLEARANCE SHALL NOT BE LESS THAN THIRTEEN-FEET-SIX-INCHES (13'-6").
 - THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN FORTY-FIVE FEET (45') OUTSIDE RADIUS AND TWENTY-TWO FEET (22') INSIDE RADIUS.
 - A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN ONE-HUNDRED-FIFTY FEET (150') FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN UFC 94, SECTION 902.2)
 - ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF ONE-HUNDRED-FIFTY FEET (150') IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE NO. 3944.
 - ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF ONE-HUNDRED-FOOT (100') ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN TEN FEET (10') OR LESS THAN SIX FEET (6') FROM ROADWAY LEVEL. THE CURBS ALONG OR ON THE PAVEMENT OR CEMENT IF CURB IS NOT PRESENT SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
 - ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECOVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

RECOMMENDED
BERT A. HUGHES
10/10/98
P.E. NO. 10259

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEVADA
G.C. WALLACE, INC.
Engineering/Architecture
555 SOUTH RANSOM BLVD., SUITE 100
LAS VEGAS, NEVADA 89102 (702) 363-1200
SUMMERLIN DIVISION (702) 363-0091

CHARLESTON BOULEVARD
PAVILION CENTER DRIVE TO TOWN CENTER DRIVE
MASTER WATER PLAN

SHEET 6 OF 25
JOB NO. 62012.224

[illegible]

1. NAME OF THE PARTY: [REDACTED]

2. ADDRESS: [REDACTED]

3. CITY: [REDACTED]

4. STATE: [REDACTED]

5. ZIP: [REDACTED]

6. PHONE: [REDACTED]

7. FAX: [REDACTED]

8. E-MAIL: [REDACTED]

9. WEBSITE: [REDACTED]

10. OTHER: [REDACTED]

11. DATE: [REDACTED]

12. SIGNATURE: [REDACTED]

13. TITLE: [REDACTED]

14. ORGANIZATION: [REDACTED]

15. CONTACT: [REDACTED]

16. COMMENTS: [REDACTED]

17. APPROVAL: [REDACTED]

18. DATE: [REDACTED]

19. SIGNATURE: [REDACTED]

20. TITLE: [REDACTED]

21. ORGANIZATION: [REDACTED]

22. CONTACT: [REDACTED]

23. COMMENTS: [REDACTED]

24. APPROVAL: [REDACTED]

25. DATE: [REDACTED]

26. SIGNATURE: [REDACTED]

27. TITLE: [REDACTED]

28. ORGANIZATION: [REDACTED]

29. CONTACT: [REDACTED]

30. COMMENTS: [REDACTED]

31. APPROVAL: [REDACTED]

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33. SIGNATURE: [REDACTED]

34. TITLE: [REDACTED]

35. ORGANIZATION: [REDACTED]

36. CONTACT: [REDACTED]

37. COMMENTS: [REDACTED]

38. APPROVAL: [REDACTED]

39. DATE: [REDACTED]

40. SIGNATURE: [REDACTED]

41. TITLE: [REDACTED]

42. ORGANIZATION: [REDACTED]

43. CONTACT: [REDACTED]

44. COMMENTS: [REDACTED]

45. APPROVAL: [REDACTED]

46. DATE: [REDACTED]

47. SIGNATURE: [REDACTED]

48. TITLE: [REDACTED]

49. ORGANIZATION: [REDACTED]

50. CONTACT: [REDACTED]

51. COMMENTS: [REDACTED]

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64. CONTACT: [REDACTED]

65. COMMENTS: [REDACTED]

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71. CONTACT: [REDACTED]

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79. COMMENTS: [REDACTED]

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93. COMMENTS: [REDACTED]

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107. COMMENTS: [REDACTED]

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113. CONTACT: [REDACTED]

114. COMMENTS: [REDACTED]

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116. DATE: [REDACTED]

117. SIGNATURE: [REDACTED]

118. TITLE: [REDACTED]

119. ORGANIZATION: [REDACTED]

120. CONTACT: [REDACTED]

121. COMMENTS: [REDACTED]

122. APPROVAL: [REDACTED]

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124. SIGNATURE: [REDACTED]

125. TITLE: [REDACTED]

126. ORGANIZATION: [REDACTED]

127. CONTACT: [REDACTED]

128. COMMENTS: [REDACTED]

129. APPROVAL: [REDACTED]

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132. TITLE: [REDACTED]

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155. CONTACT: [REDACTED]

156. COMMENTS: [REDACTED]

157. APPROVAL: [REDACTED]

158. DATE: [REDACTED]

159. SIGNATURE: [REDACTED]

160. TITLE: [REDACTED]

161. ORGANIZATION: [REDACTED]

162. CONTACT: [REDACTED]

163. COMMENTS: [REDACTED]

164. APPROVAL: [REDACTED]

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167. TITLE: [REDACTED]

168. ORGANIZATION: [REDACTED]

169. CONTACT: [REDACTED]

170. COMMENTS: [REDACTED]

171. APPROVAL: [REDACTED]

172. DATE: [REDACTED]

173. SIGNATURE: [REDACTED]

174. TITLE: [REDACTED]

175. ORGANIZATION: [REDACTED]

176. CONTACT: [REDACTED]

177. COMMENTS: [REDACTED]

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183. CONTACT: [REDACTED]

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186. DATE: [REDACTED]

187. SIGNATURE: [REDACTED]

188. TITLE: [REDACTED]

189. ORGANIZATION: [REDACTED]

190. CONTACT: [REDACTED]

191. COMMENTS: [REDACTED]

192. APPROVAL: [REDACTED]

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196. ORGANIZATION: [REDACTED]

197. CONTACT: [REDACTED]

198. COMMENTS: [REDACTED]

199. APPROVAL: [REDACTED]

200. DATE: [REDACTED]

201. SIGNATURE: [REDACTED]

202. TITLE: [REDACTED]

203. ORGANIZATION: [REDACTED]

204. CONTACT: [REDACTED]

205. COMMENTS: [REDACTED]

206. APPROVAL: [RE

[illegible]