## CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 'UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE 'UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS 'DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS.
EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY

NOVA GEOTECHNICAL, REPORT #E-15-104, DATED JUNE 15, 2015,

APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
WALL NOTES:
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/- 0.09 METERS (+/- 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S). A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
OR
~~SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHALL SHOW AT MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION AT A DROP INLET, AND THE CONNECTION OF THE SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.~~
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

## CITY OF LAS VEGAS FIRE DEPT. GENERAL NOTES

EFFECTIVE DATE: JULY 1, 2014 CLV ORDINANCE #6325
THE ITEMS LISTED ARE BASIC INFORMATION ONLY. CODES ARE SUBJECT TO CHANGE. ADDITIONAL REQUIREMENTS MAY APPLY.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S – APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC § 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC § 3310, § 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC § 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [IFC § 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC § 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC § 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [IFC § C102]
RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [IFC § C102.8]

## L.V.V.W.D. STANDARD NOTES

LVVWD PROJECT # 126375

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD's APPROVED PRODUCTS'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS..
13. TELEPHONE "CALL BEFORE YOU DIG" AT 1-800-227-2600 OR 811
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNER IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAINFINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE WATER DRINKING ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

## CITY OF LAS VEGAS FIRE DEPT. GENERAL NOTES CONTINUED

13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [IFC § C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [IFC § C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC § C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC § C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC § 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC § 503.2.7, § 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [IFC § 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [IFC § 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]
27. ALL FIRE APPARATUS 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 100 FT ALONG THE 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 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC § 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

## CITY OF LAS VEGAS SEWER NOTES

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 CO. AREA, NV., AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR-35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY FEET (80') AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHT FEET (80') R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCHES (12") DIAMETER. CONNECTIONS TO FIFTEEN INCHES (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y"'s SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR A SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.
8. ALL CONTRACTOR'S INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE A STATE OF NEVADA CLASS "A" CONTRACTOR.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE-TENTH OF ONE FOOT (0.1') FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED, OR REMOVED, OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF PVC, C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

## CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 229-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

## CITY OF LAS VEGAS STREET LIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.L0.03 (E) OF THE SPECIFICATIONS.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. 4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE. 6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREETLIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

## CITY OF LAS VEGAS STREET LIGHT NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

| | HORIZONTAL | VERTICAL | COMPACTION |
|---|---|---|---|
| A. PAVEMENT AREA SUBGRADE | 0.1'+ | +0.0' TO -0.1' | SEE SOILS REPORT |
| B. ENGINEERED FILL | 0.5'+ | +0.1' TO -0.1' | SEE SOILS REPORT |

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| ABAN | – ABANDON | HP | – HIGH POINT |
| ALT | – ALTERNATE | INV | – INVERT |
| AC | – ASPHALTIC CONCRETE | LS | – LANDSCAPE |
| AVE | – AVENUE | LT | – LEFT |
| BC | – BACK OF CURB | LF | – LINEAR FEET |
| BCR | – BACK OF CURB RADIUS | LVVWD | – LAS VEGAS VALLEY WATER DISTRICT |
| BM | – BENCH MARK | MH | – MANHOLE |
| BW | – BACK OF SIDEWALK | MAX | – MAXIMUM |
| CATV | – CABLE TELEVISION | MIN | – MINIMUM |
| ℄ | – CENTER LINE | NO | – NUMBER |
| CC | – CLARK COUNTY | NTS | – NOT TO SCALE |
| CCWRD | – CLARK COUNTY WATER RECLAMATION DISTRICT | PCC, CONC | – PORTLAND CEMENT CONCRETE |
| CO | – CLEAN OUT, SEWER | PP | – POWER POLE |
| CONC, PCC | – CONCRETE | ℞ | – PROPERTY LINE |
| CONST | – CONSTRUCTION OR CONSTRUCT | PROP | – PROPOSED |
| COR | – CORNER | PVC | – POLYVINYL CHLORIDE PIPE |
| C&G | – CURB & GUTTER | R | – RADIUS |
| CIP | – CAST IRON PIPE | REINF | – REINFORCED |
| CU YD, CY | – CUBIC YARD | RCP | – REINFORCED CONCRETE PIPE |
| CU FT, CF | – CUBIC FOOT | RT | – RIGHT |
| CF | – CURB FACE | R/W | – RIGHT-OF-WAY |
| DC | – DEPRESSED CURB | SS | – SANITARY SEWER |
| DEPT | – DEPARTMENT | SHT | – SHEET |
| DIA | – DIAMETER | SW | – SIDEWALK |
| DWY | – DRIVEWAY | SQ FT, SF | – SQUARE FOOT |
| DI | – DROP INLET | SQ YD, SY | – SQUARE YARD |
| DIP | – DUCTILE IRON PIPE | STA | – STATION |
| DMH | – DROP MANHOLE | SD | – STORM DRAIN |
| ESMT | – EASEMENT | SL | – STREETLIGHT |
| E/O | – EAST OF | T | – TELEPHONE |
| EP | – EDGE OF PAVEMENT | TEMP | – TEMPORARY |
| E | – ELECTRIC | TC | – TOP OF CURB |
| ELEV | – ELEVATION | TP | – TOP OF PIPE |
| EXIST, EX | – EXISTING | TRANS | – TRANSITION |
| FF | – FINISHED FLOOR | TW | – TOP OF WALL |
| FDC | – FIRE DEPARTMENT CONNECTION | TYP | – TYPICAL |
| FT | – FOOT OR FEET | UG | – UNDERGROUND |
| FG | – FINISH GRADE | UGE | – UNDERGROUND ELECTICAL |
| FH | – FIRE HYDRANT | UGP | – UNDERGROUND POWER |
| FL | – FLOW LINE | VERT | – VERTICAL |
| G | – GAS | VG | – VALLEY GUTTER |
| GM | – GAS METER | W | – WATER |
| GB | – GRADE BREAK | | |

## CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

| | HORIZONTAL | VERTICAL | COMPACTION |
|---|---|---|---|
| A. PAVEMENT AREA SUBGRADE | 0.1'+ | +0.0' TO -0.1' | SEE SOILS REPORT |
| B. ENGINEERED FILL | 0.5'+ | +0.1' TO -0.1' | SEE SOILS REPORT |

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

## SDR-72366 CONDITIONS OF APPROVAL

1. THIS APPROVAL SHALL BE VOID TWO YEARS FROM THE DATE OF FINAL APPROVAL, UNLESS EXERCISED PURSUANT TO THE PROVISIONS OF LMVC TITLE 19.16. AN EXTENSION OF TIME MAY BE FILED FOR CONSIDERATION BY THE CITY OF LAS VEGAS.
2. ALL DEVELOPMENT SHALL BE IN CONFORMANCE WITH THE SITE PLAN, LANDSCAPE PLAN AND BUILDING ELEVATIONS, DATE STAMPED 01/02/18, EXCEPT AS AMENDED BY CONDITIONS HEREIN.
3. THE APPLICANT SHALL COORDINATE WITH THE CITY SURVEYOR AND OTHER CITY STAFF TO DETERMINE THE MOST APPROPRIATE MAPPING ACTION NECESSARY TO CONSOLIDATE THE EXISTING LOTS. THE MAPPING ACTION SHALL BE COMPLETED AND RECORDED PRIOR TO THE ISSUANCE OF ANY BUILDING PERMIT.
4. ALL NECESSARY BUILDING PERMITS SHALL BE OBTAINED AND FINAL INSPECTIONS SHALL BE COMPETED IN COMPLIANCE WITH TITLE 19 AND ALL CODES AS REQUIRED BY THE DEPT. OF BUILDING AND SAFETY.
5. THESE CONDITIONS OF APPROVAL SHALL BE AFFIXED TO THE COVER SHEET OF ANY PLAN SET SUBMITTED FOR BUILDING PERMIT.
6. A FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING FIRE APPARATUS ROADS, FIRE HYDRANTS AND WATER SUPPLY. SHALL BE INSTALLED AND SHALL BE FUNCTIONING PRIOR TO CONSTRUCTION OF ANY COMBUSTIBLE STRUCTURES.
7. ALL CITY CODE REQUIREMENTS AND DESIGN STANDARDS OF ALL CITY DEPARTMENTS MUST BE SATISFIED, EXCEPT AS MODIFIED HEREIN.
8. AN UPDATE TO THE PREVIOUSLY APPROVED DRAINAGE PLANS AND TECHNICAL DRAINAGE STUDY MUST BE SUBMITTED TO AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR T SUBMITTAL OF ANY CONSTRUCTION DRAWINGS OR THE ISSUANCE OF ANY BUILDING OR GRADING PERMITS, WHICH EVER MAY OCCUR FIRST. PROVIDE AND IMPROVE ALL DRAINAGE WAYS RECOMMENDED IN THE APPROVED DRAINAGE STUDY UPDATE.

## DEVIATIONS FROM STANDARDS

NONE

## STORMWATER MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK CO. TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.

5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

## LEGEND

EXISTING PROPOSED

RIGHT-OF-WAY/PROPERTY
CENTERLINE
TYPE "L" CURB & GUTTER
TYPE "A" CURB
CONCRETE
SCREEN/RETAINING WALL
00 CONTOUR
W / X" W WATER LINE
SS / X" SS SEWER LINE
G / G GAS LINE
SD / X" SD STORM DRAIN
T / T TELEPHONE
E / UGE UNDERGROUND ELEC

STREET LIGHTS
EXISTING PROPOSED
100 W H.P.S.
150 W H.P.S.
200 W H.P.S.
250 W H.P.S.

FIRE HYDRANT
WATER VALVE
PULL BOXES
REDUCER
MANHOLE
CLEANOUT

Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

GENERAL NOTE:

CONTRACTOR IS RESPONSIBLE TO FILE A NOTICE OF INTENT/REQUEST TO BE INCLUDED IN THE STORM WATER GENERAL PERMIT, AND SUBMIT THE ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SPPP) AS REQUIRED BY FEDERAL LAW, AND MONITORED BY THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION.

T.Y. LIN INTERNATIONAL ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS. THE UTILITIES SHOWN WERE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION COMMENCEMENT. PRIOR TO CONSTRUCTION CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS. CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY, IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD.

## APPROVED FOR CONSTRUCTION

[signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES 8/21/18
PROJECT NO. 126375 FIRST APPROVED DATE
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

| QUANTITIES | | PUBLIC | PRIVATE |
|---|---|---|---|
| 3" WATER MAIN | 629.01.12 | | 260 LF |
| 6" WATER MAIN | 629.01.17 | | 139 LF |
| 8" WATER MAIN | 629.01.22 | 96 LF | 376 LF |
| 6" DIP WATER MAIN | 629.01.16 | | 29 LF |
| WATER MAIN TAP | 629.00.50 | 1 EA | |
| WATER SERVICE TO LOTS | 629.00.11 | 1 EA | |
| | | | |
| SIDEWALK 5" | 613.00.25 | 80 SF | |
| TYPE II GRAVEL BASE | 302.00.05 | 10 CY | |
| 2" ASPHALTIC CONCRETE PAVING | 402.00.02 | 49 SY | |

## SOUTHWEST GAS CORP. GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING, BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS AND ELECTRIC.
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107, 48-HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

SOUTHWEST GAS CORPORATION DATE 10/V7427

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

T·Y·LIN INTERNATIONAL
4031 DEAN MARTIN DR.
LAS VEGAS, NV 89103
P: 702-522-7100
F: 702-522-7105
WWW.TYLIN.COM

CLARK CO., NEVADA
CITY OF LAS VEGAS

BMW OF LAS VEGAS

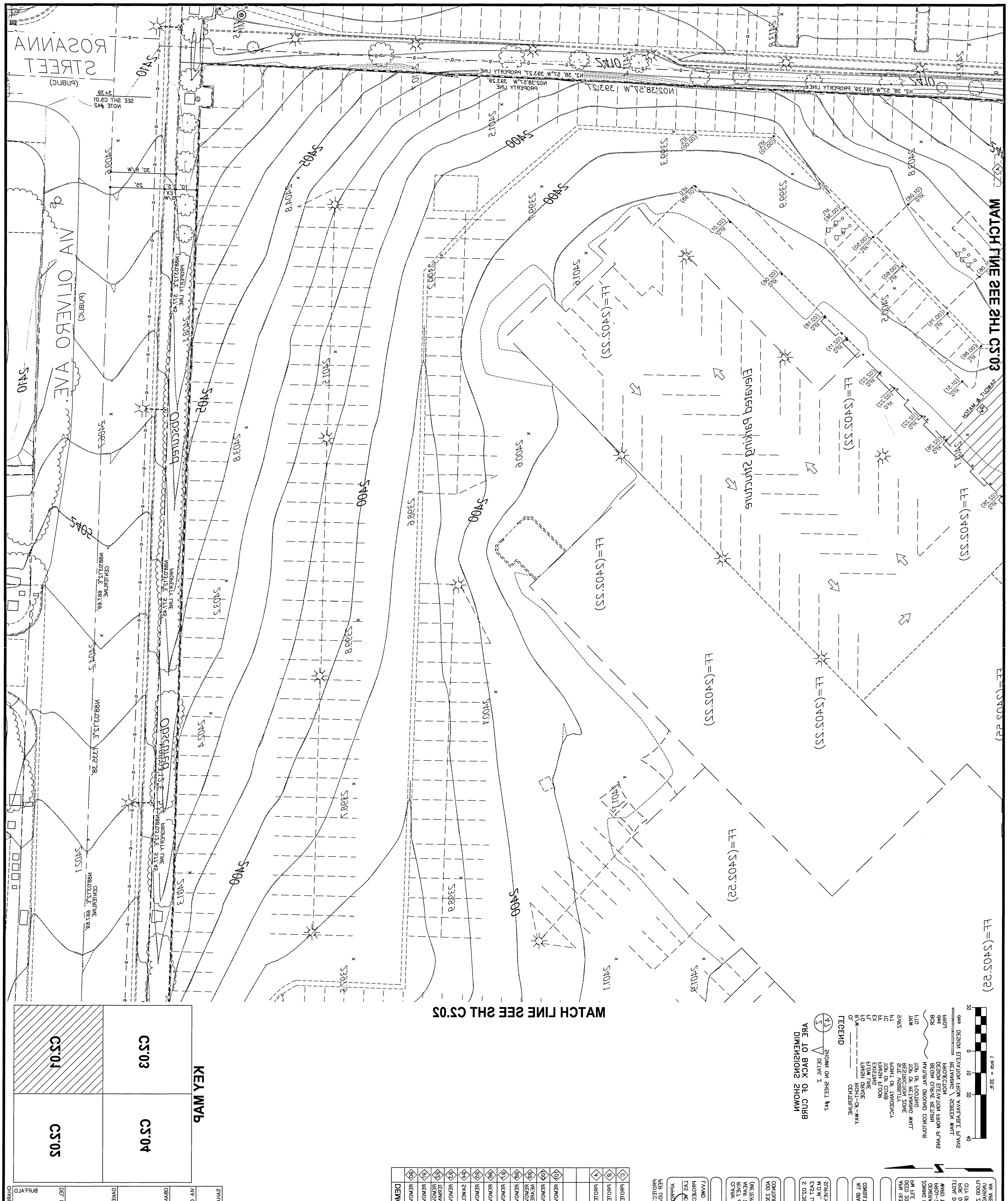
GENERAL NOTES SHEET

DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7889
6.15.18

C1.02
SHEET 2 OF 20
CLV # L18-00533

PROJ#:126375-A QS:163-03-SE




## KEY MAP

| | |
|---|---|
| C2.01 | C2.02 |
| C2.03 | C2.04 |

## VICINITY MAP

N.T.S.

SITE

CHARLESTON, BUFFALO, DEL REY, OAKEY, OBANNON, VIA OLIVERO, SAHARA, RAINBOW, TENAYA, ROSANNA

## DEMOLITION NOTES

| | |
|---|---|
| 90 | REMOVE EX CURB |
| 91 | REMOVE EX PLANT MATERIAL & CAP IRRIGATION (EXCEPT PALM TREES) |
| 92 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3–1/2" PULL BOX TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 93 | REMOVE EX SIGN & SALVAGE FOR RE–USE |
| 94 | SAWCUT & REMOVE EX AC PAVING & SALVAGE BASE MATERIAL FOR RE–USE |
| 95 | REMOVE EX WALL |
| 96 | REMOVE EX CONCRETE VALLEY GUTTER |
| 97 | REMOVE EX CANOPY, SUPPORTS, & FOUNDATIONS |
| 98 | REMOVE EX CONCRETE WALK |
| 99 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3–1/2" PULL BOX TO @ NEAREST AREA LIGHT TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 100 | REMOVE EX CONCRETE STAIRS |
| 101 | REMOVE EX PALM TREE & SALVAGE FOR RE–USE (16 EA.) |
| | |
| | |
| A | PROTECT EX LOOP DETECTORS IN PLACE |
| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER LVDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7010 25WS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV=2,392.83 (US SURVEY FEET) = 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S, R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO. NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 18007O1.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20180725:01580
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PRJ0–72340, SDR–72366, DS#663, PMP#72675
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S, R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 0165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| TFO | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| dee | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| dee | DESIGN ELEVATION FROM AVAILABLE PLANS |

DETAIL 2 / 47 SHOWN ON SHEET #47

DIMENSIONS SHOWN ARE TO BACK OF CURB

0 10 20 40 — 1 inch = 20 ft.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

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CLARK CO., NEVADA — CITY OF LAS VEGAS

# BMW OF LAS VEGAS

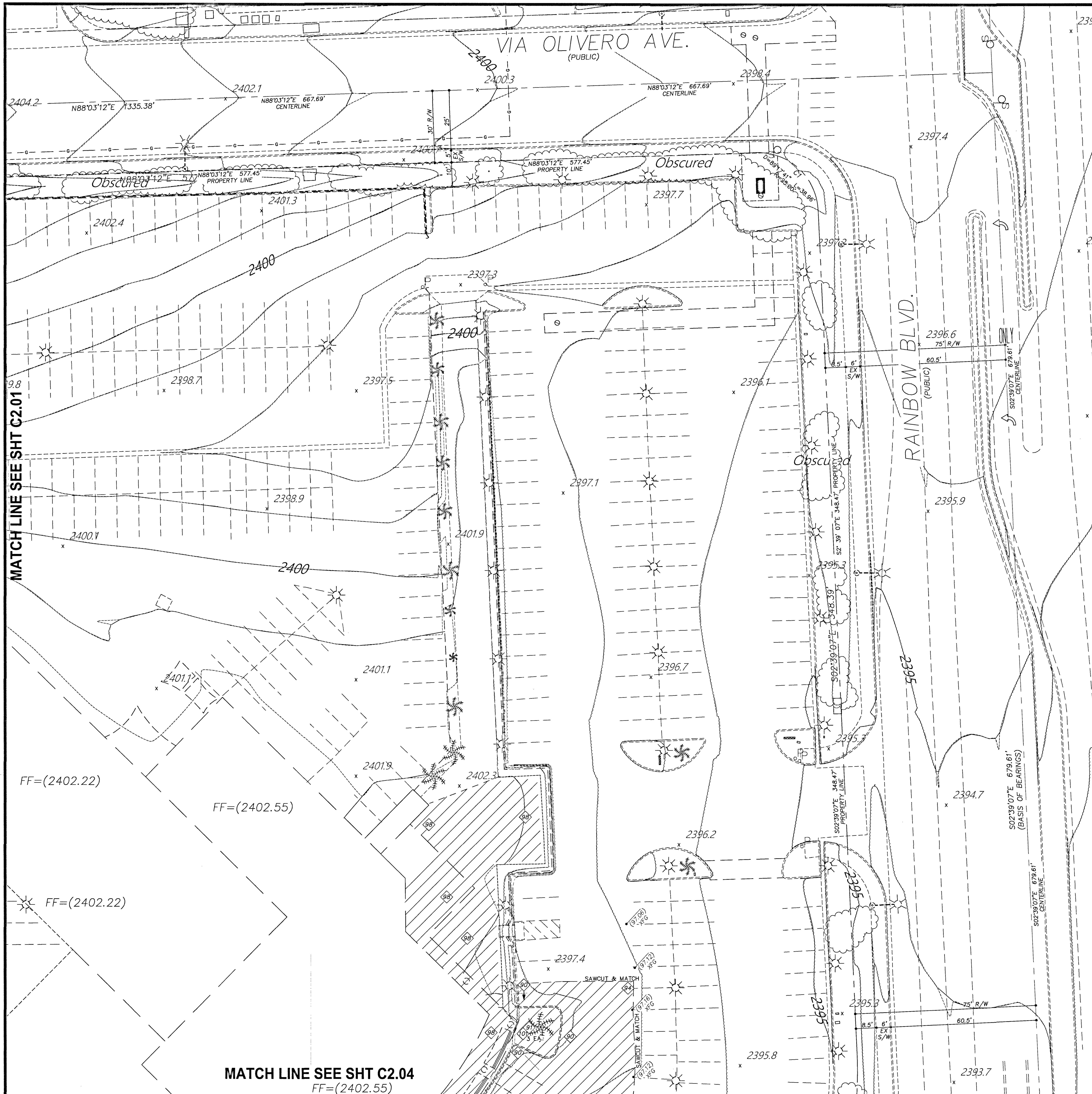
# DEMOLITION PLAN 01

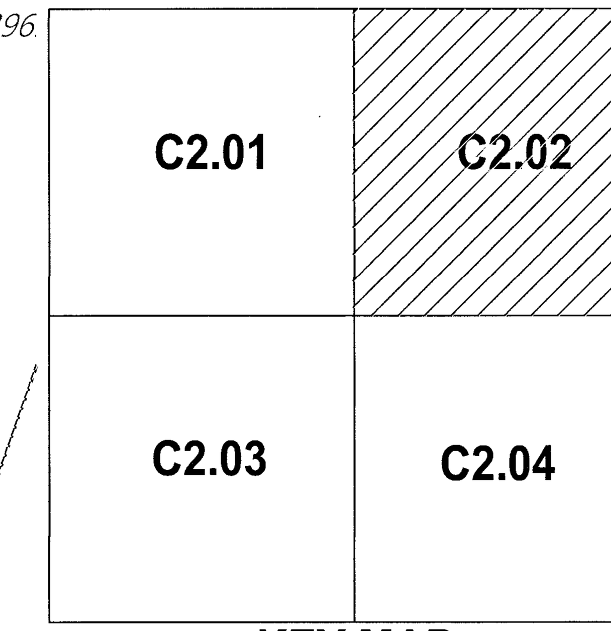
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER – STATE OF NEVADA – SAM C. DUNHAM – EXP. 12–31–18 – CIVIL – No. 7886

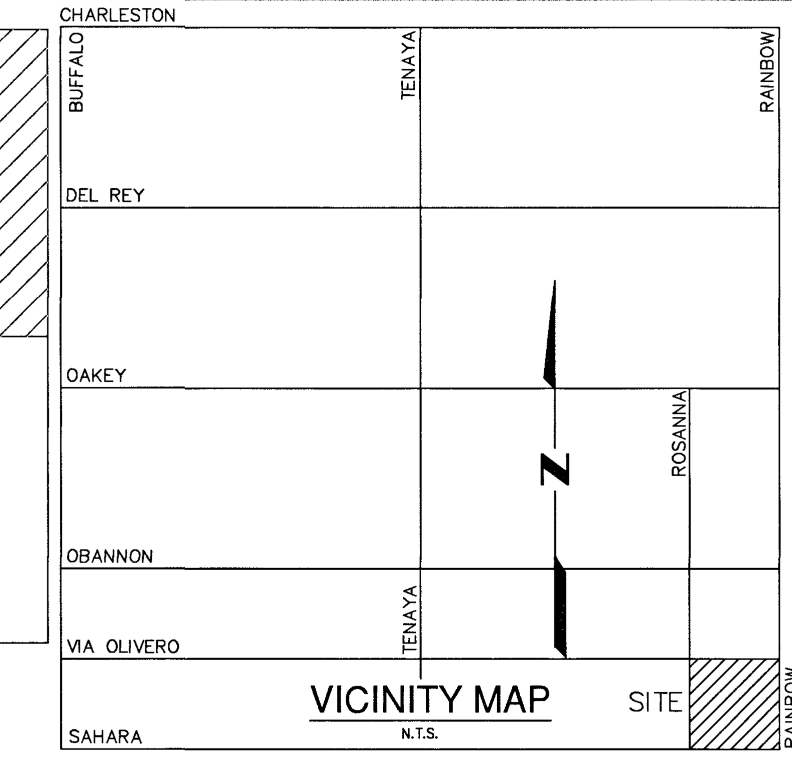
C2.01
SHEET 3 OF 20
CLV # L18–00533

PROJ#:126375–A QS:163–03–5E




**KEY MAP**




**VICINITY MAP**
N.T.S.

| | DEMOLITION NOTES |
|---|---|
| 90 | REMOVE EX CURB |
| 91 | REMOVE EX PLANT MATERIAL & CAP IRRIGATION (EXCEPT PALM TREES) |
| 92 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3–1/2" PULL BOX TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 93 | REMOVE EX SIGN & SALVAGE FOR RE–USE |
| 94 | SAWCUT & REMOVE EX AC PAVING & SALVAGE BASE MATERIAL FOR RE–USE |
| 95 | REMOVE EX WALL |
| 96 | REMOVE EX CONCRETE VALLEY GUTTER |
| 97 | REMOVE EX CANOPY, SUPPORTS, & FOUNDATIONS |
| 98 | REMOVE EX CONCRETE WALK |
| 99 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3–1/2" PULL BOX TO @ NEAREST AREA LIGHT TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 100 | REMOVE EX CONCRETE STAIRS |
| 101 | REMOVE EX PALM TREE & SALVAGE FOR RE–USE (16 EA.) |
| | |
| | |
| A | PROTECT EX LOOP DETECTORS IN PLACE |
| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

*PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.*

APPROVED FOR CONSTRUCTION
*LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES*
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

*CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.*

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

*S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.*

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| (wavy line) | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| (wall symbol) | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

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NO. | DESCRIPTION | DATE | BY | APP. DATE

CLARK CO., NEVADA
CITY OF LAS VEGAS

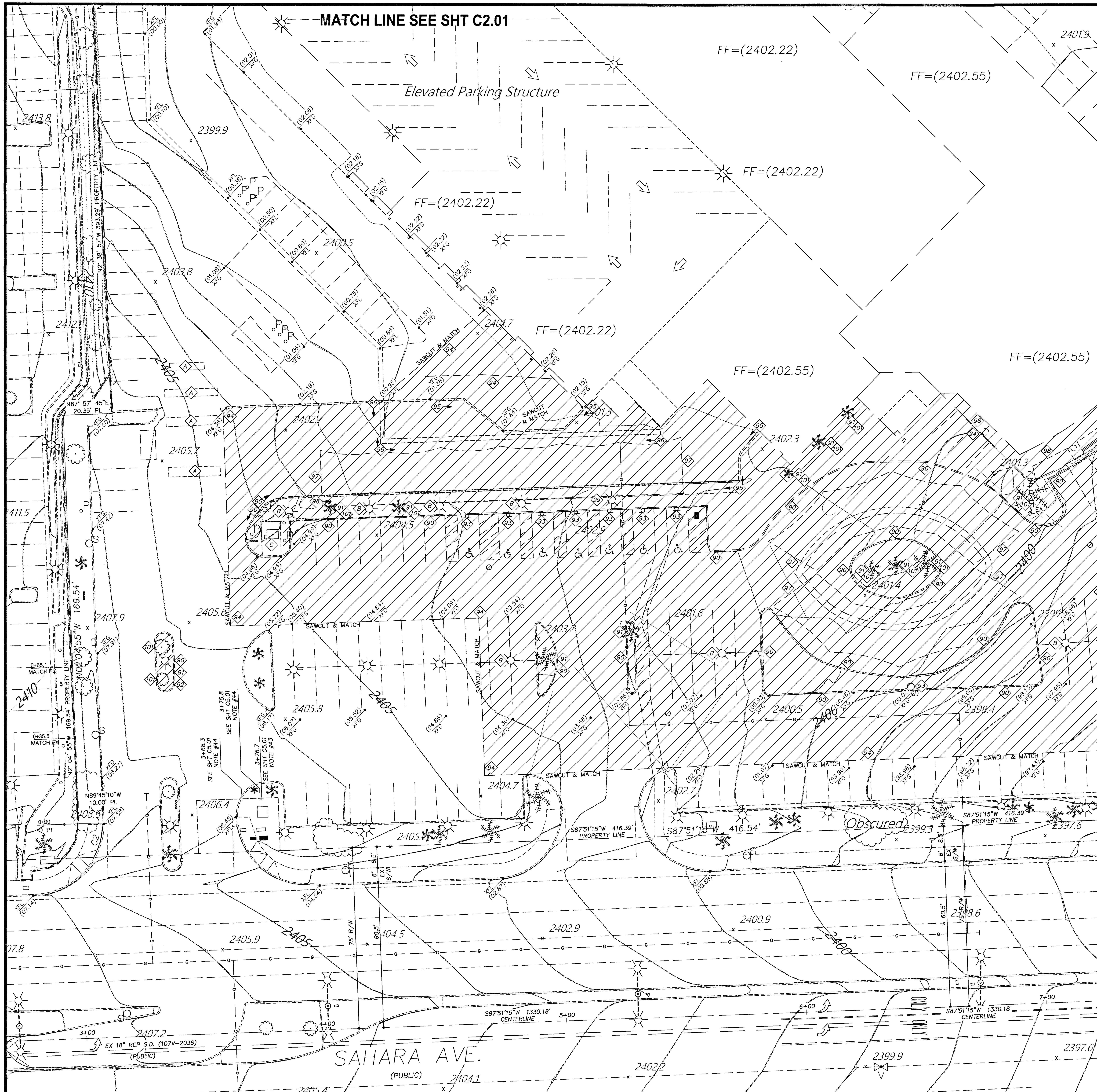
# BMW OF LAS VEGAS
# DEMOLITION PLAN 02

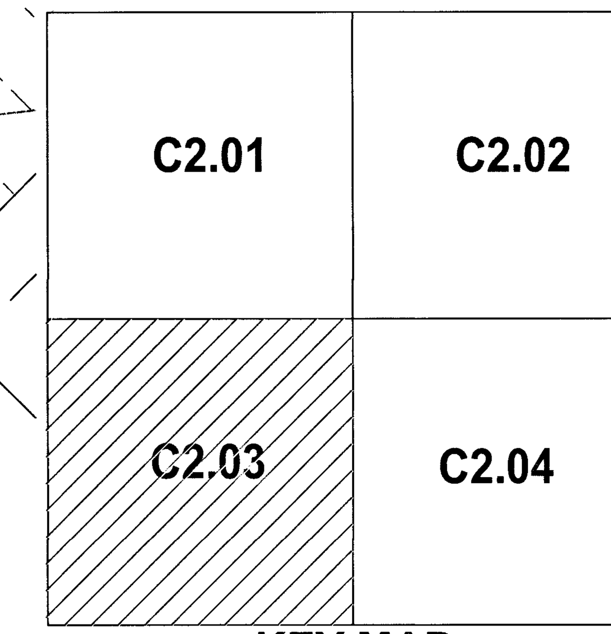
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL

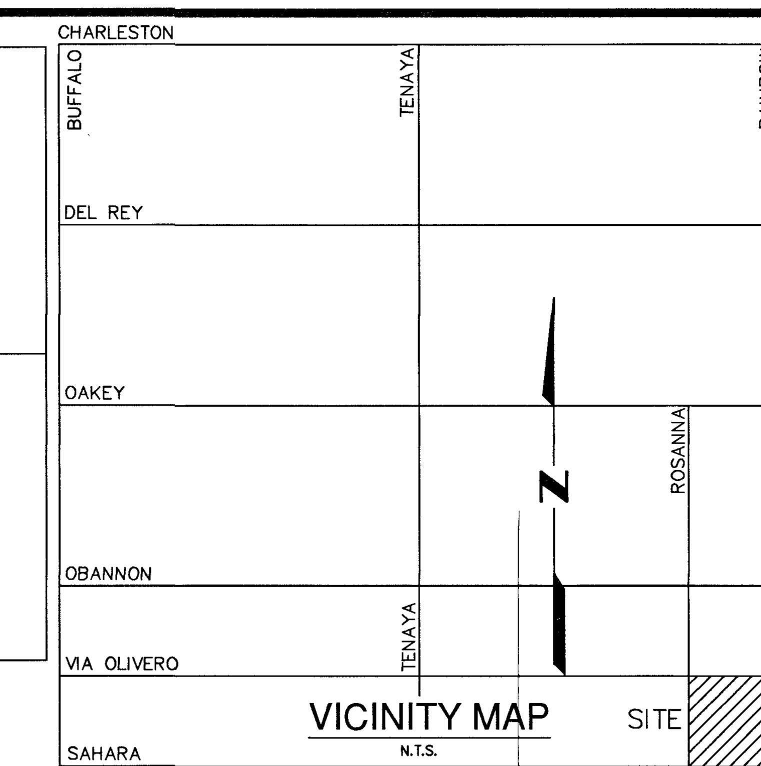
**C2.02**
SHEET 4 OF 20
CLV # L18–00533

PROJ#:126375-A QS:163-03-SE




**KEY MAP**




**VICINITY MAP**
N.T.S.

| | DEMOLITION NOTES |
|---|---|
| 90 | REMOVE EX CURB |
| 91 | REMOVE EX PLANT MATERIAL & CAP IRRIGATION (EXCEPT PALM TREES) |
| 92 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3–1/2" PULL BOX TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 93 | REMOVE EX SIGN & SALVAGE FOR RE–USE |
| 94 | SAWCUT & REMOVE EX AC PAVING & SALVAGE BASE MATERIAL FOR RE–USE |
| 95 | REMOVE EX WALL |
| 96 | REMOVE EX CONCRETE VALLEY GUTTER |
| 97 | REMOVE EX CANOPY, SUPPORTS, & FOUNDATIONS |
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| 100 | REMOVE EX CONCRETE STAIRS |
| 101 | REMOVE EX PALM TREE & SALVAGE FOR RE–USE (16 EA.) |
| | |
| | |
| A | PROTECT EX LOOP DETECTORS IN PLACE |
| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION
[signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

107V7427

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 — DETAIL Z SHOWN ON SHEET #47

**LEGEND**

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
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| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
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| (wavy line) | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| (wall symbol) | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

| NO. | DESCRIPTION | DATE | BY | APP DATE |
|---|---|---|---|---|
| | | | | |

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CLARK CO., NEVADA

CITY OF LAS VEGAS

# BMW OF LAS VEGAS

# DEMOLITION PLAN 03

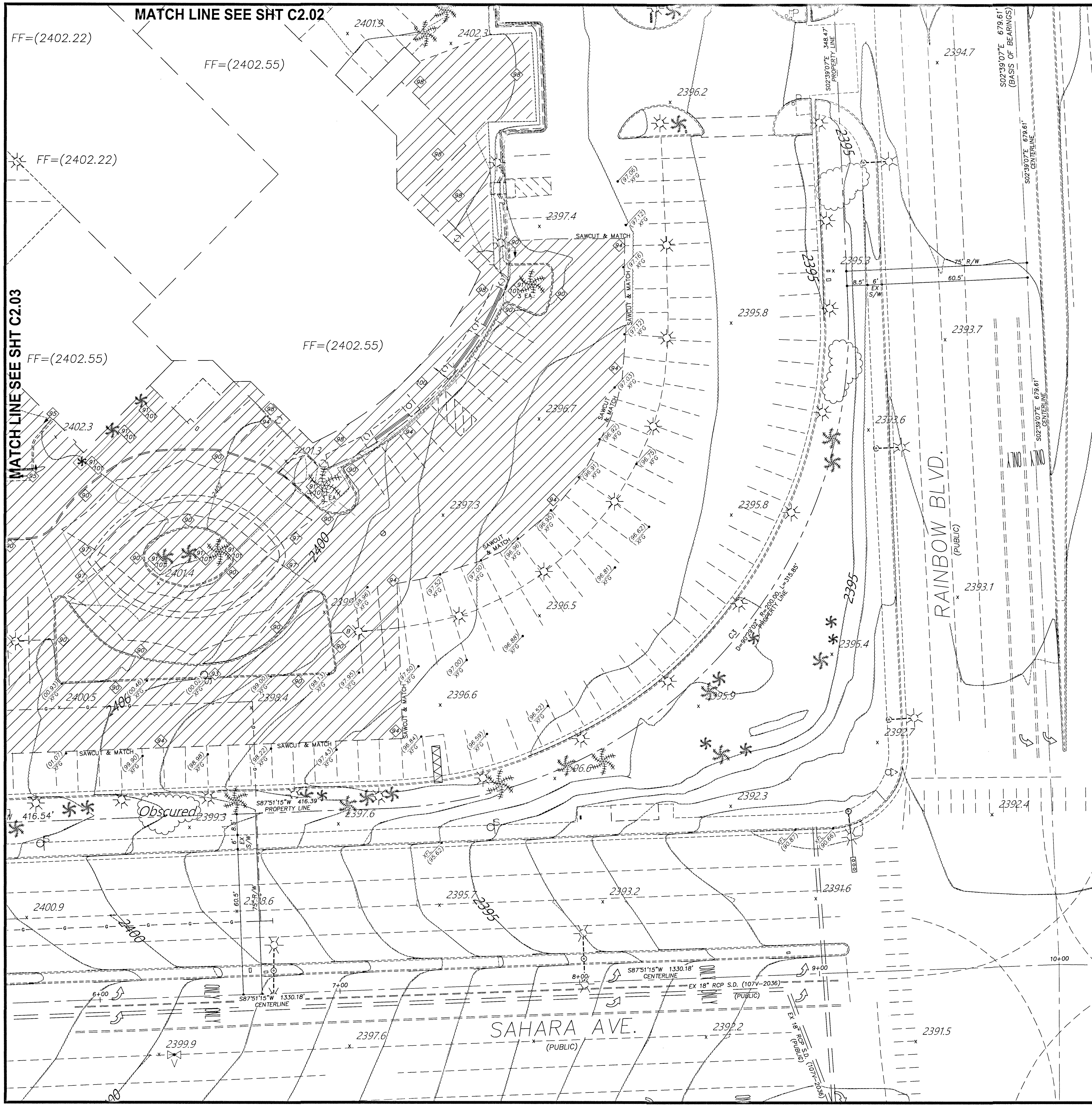
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

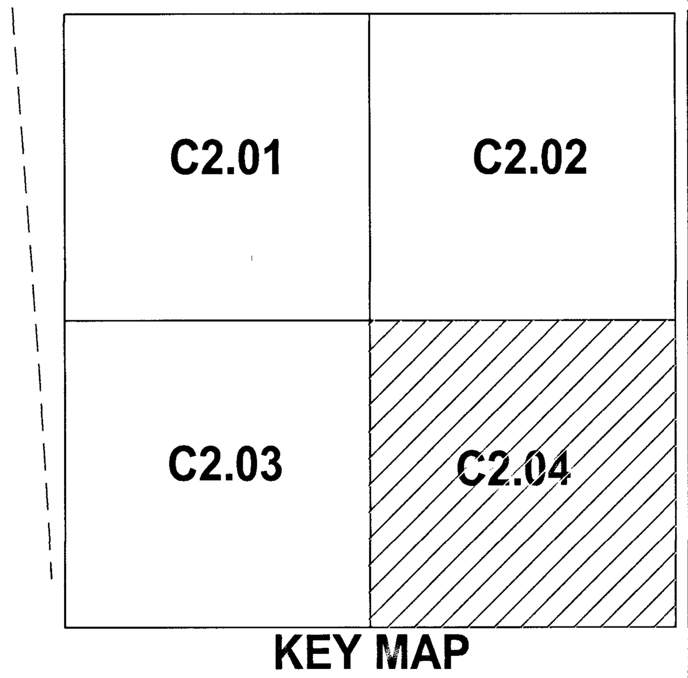
PROFESSIONAL ENGINEER STATE OF NEVADA — SAM C. DUNNAM — EXP. 12-31-18 — CIVIL — No. 15366

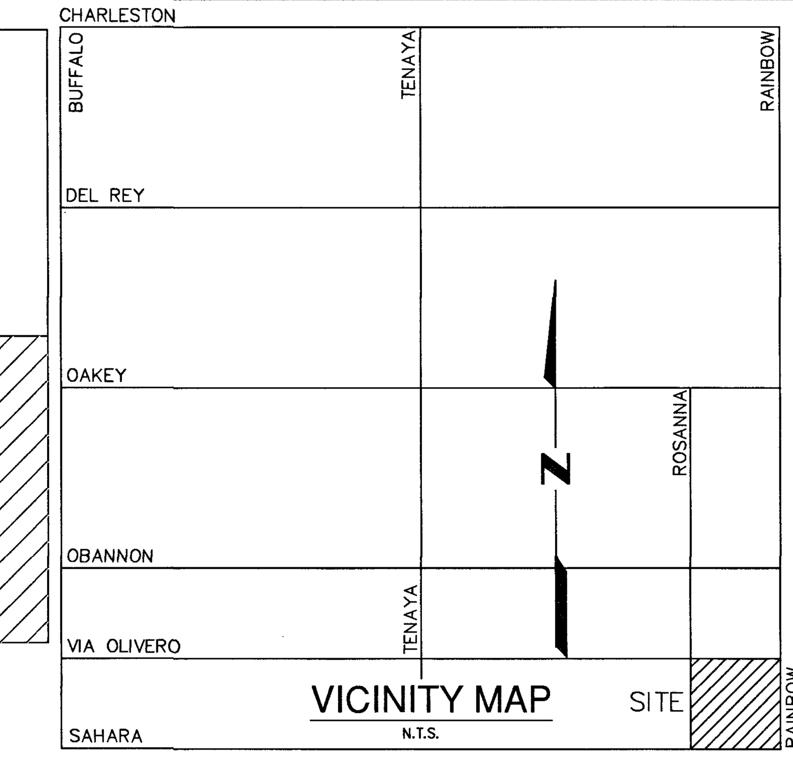
C2.03
SHEET 5 OF 20

CLV # L18–00533

PROJ#:12637S-A QS:163-03-SE




| | DEMOLITION NOTES |
|---|---|
| 90 | REMOVE EX CURB |
| 91 | REMOVE EX PLANT MATERIAL & CAP IRRIGATION (EXCEPT PALM TREES) |
| 92 | REMOVE AREA LIGHT & FOUNDATION–INSTALL NO. 3-1/2" PULL BOX TO TERMINATE CONDUIT & WIRE PER STD DWG #705 |
| 93 | REMOVE EX SIGN & SALVAGE FOR RE-USE |
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| 101 | REMOVE EX PALM TREE & SALVAGE FOR RE-USE (16 EA.) |
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| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163-03-806-010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ-72340, SDR-72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

107V 7429

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT-OF-WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
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| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| (wall symbol) | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|

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CLARK CO., NEVADA

CITY OF LAS VEGAS

# BMW OF LAS VEGAS

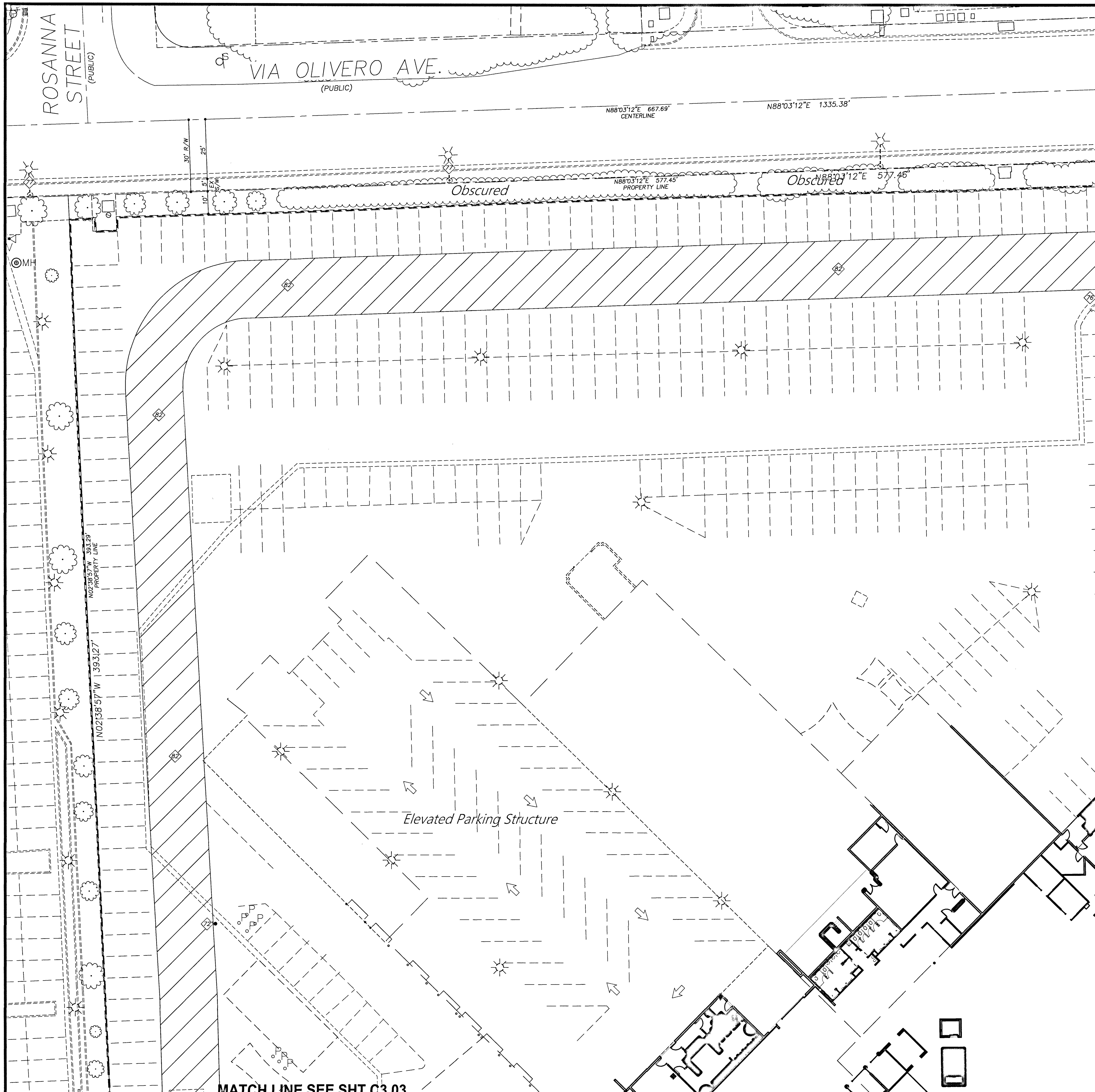
# DEMOLITION PLAN 04

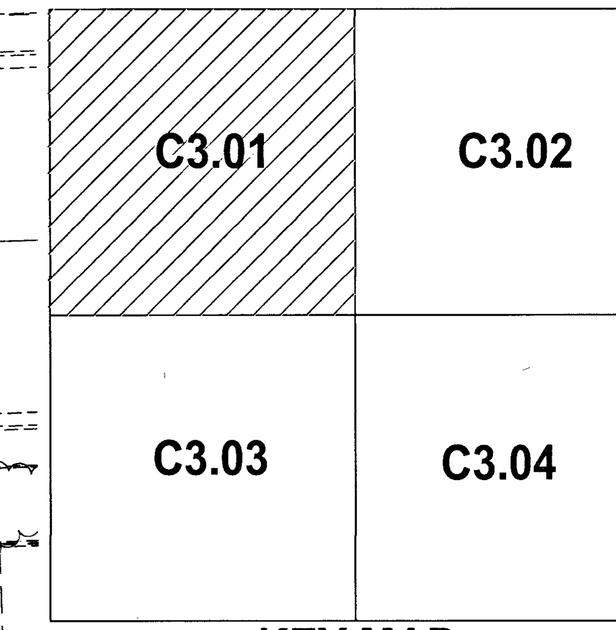
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER - STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL

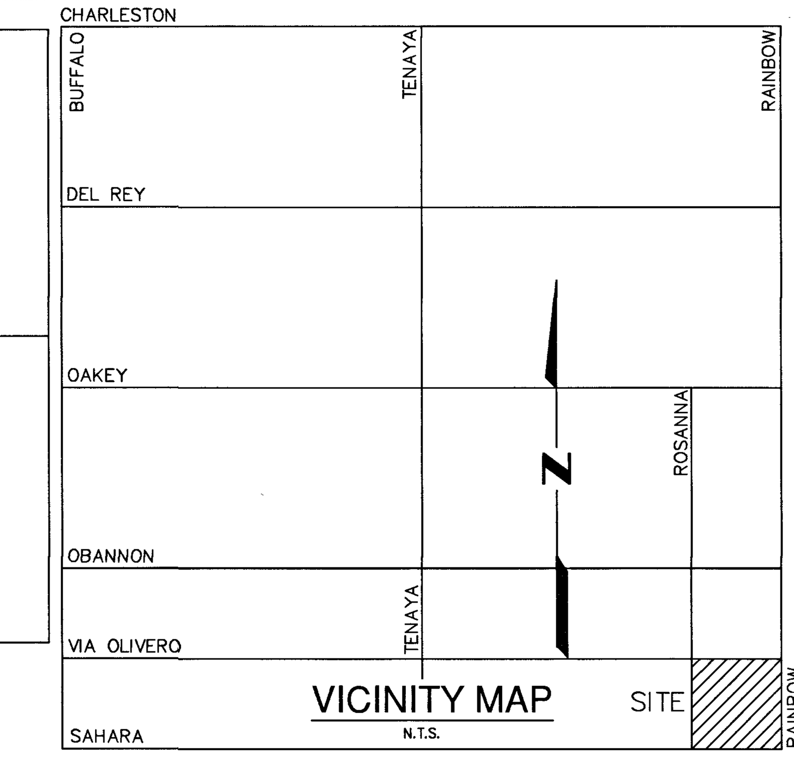
C2.04
SHEET 6 OF 20
CLV # L18-00533

PROJ#:126375-A QS:163-03-SE



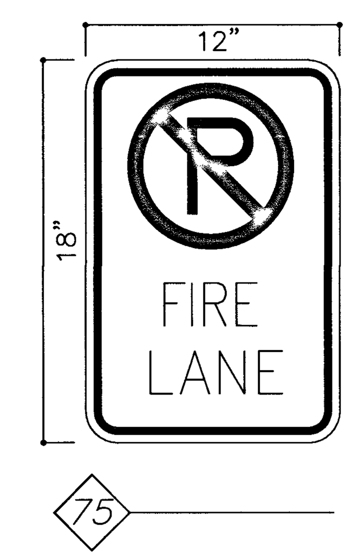




KEY MAP




VICINITY MAP
N.T.S.

| | TRAFFIC NOTES |
|---|---|
| NO | ITEM |
| 70 | INSTALL 4" WIDE WHITE PAINTED SOLID PARKING LINE |
| 71 | INSTALL 4" WIDE WHITE PAINTED DIAGONAL SOLID LINE @ 36" ON CENTER |
| 72 | INSTALL BLUE REFLECTIVE RAISED PAVEMENT MARKER @ 10' FROM FACE OF CURB ADJACENT TO FIRE HYDRANT |
| 73 | CONSTRUCT HANDICAP ACCESSIBLE PARKING SPACE PER DETAIL #73 SHEET C5.02 |
| 74 | INSTALL PRE-CAST CONCRETE BUMPER BLOCK PER STD DWG #238 (OR SIMILAR) |
| 75 | INSTALL "NO PARKING-FIRE LANE" SIGN PER STD DWG #249.1 |
| 76 | PAINT CURB RED & STENCIL IN WHITE PAINT "NO PARKING-FIRE LANE" @ 50' ON CENTER |
| 77 | EX R7-1ap SIGN |
| 78 | EX R1-1 & D-1 SIGNS |
| 79 | EX R2-1 (45) SIGN |
| 80 | EX M5-6 SIGN |
| 81 | EX I-8 LIBRARY SIGN |
| 82 | FIRE TRUCK ROUTE - 24' WIDE - 52' / 28' RADII (TYP.) |
| | |
| | |
| | |
| | |



## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) - INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163-03-806-010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ-72340, SDR-72366, DS#4963, PMP#72875
WARD 1 - TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.-ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

7/5/18
CITY OF LAS VEGAS FIRE DEPT. DATE

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT-OF-WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| (wavy line) | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
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| PROJ | PROJECTION |
| (wall line) | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

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F: 702-522-7105
WWW.TYLIN.COM

CITY OF LAS VEGAS — CLARK CO., NEVADA

# BMW OF LAS VEGAS

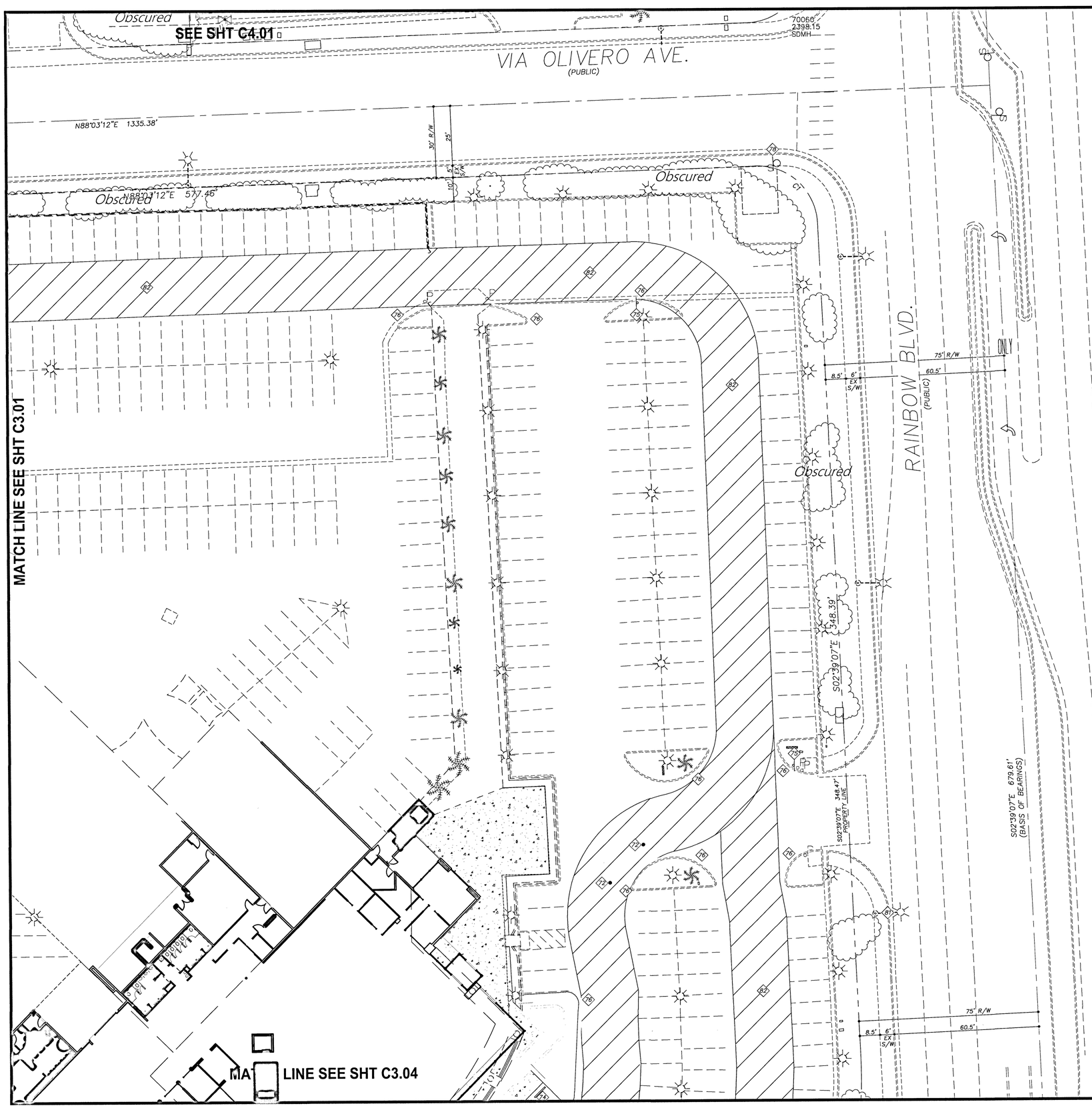
# TRAFFIC/HORIZONTAL CONTROL PLAN 01

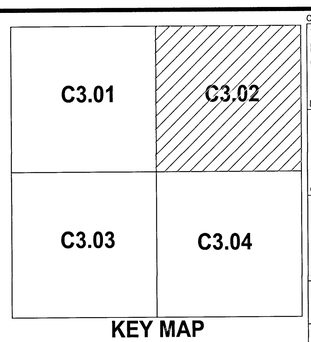
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER - STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7830
5-15-18

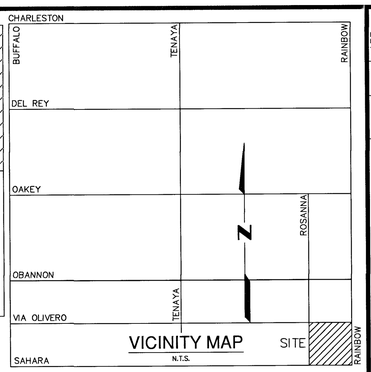
C3.01
SHEET 7 OF 20

CLV # L18-00533




KEY MAP




VICINITY MAP
N.T.S.

| NO | TRAFFIC NOTES ITEM |
|---|---|
| 70 | INSTALL 4" WIDE WHITE PAINTED SOLID PARKING LINE |
| 71 | INSTALL 4" WIDE WHITE PAINTED DIAGONAL SOLID LINE @ 36" ON CENTER |
| 72 | NOT USED |
| 73 | CONSTRUCT HANDICAP ACCESSIBLE PARKING SPACE PER DETAIL #73 SHEET C5.02 |
| 74 | INSTALL PRE-CAST CONCRETE BUMPER BLOCK PER STD DWG #238 (OR SIMILAR) |
| 75 | INSTALL "NO PARKING-FIRE LANE" SIGN PER STD DWG #249.1 |
| 76 | PAINT CURB RED & STENCIL IN WHITE PAINT "NO PARKING-FIRE LANE" @ 50' ON CENTER |
| 77 | EX R7-1ap SIGN |
| 78 | EX R1-1 & D-1 SIGNS |
| 79 | EX R2-1 (45) SIGN |
| 80 | EX M5-6 SIGN |
| 81 | EX I-8 LIBRARY SIGN |
| 82 | FIRE TRUCK ROUTE – 24' WIDE – 52' / 28' RADII (TYP.) |

CITY OF LAS VEGAS FIRE DEPT. 7/5/18 DATE

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT-OF-WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163-03-806-010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ-72340, SDR-72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.-ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|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P: 702-522-7100
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WWW.TYLIN.COM


CLARK CO., NEVADA

BMW OF LAS VEGAS

CITY OF LAS VEGAS

# TRAFFIC/HORIZONTAL CONTROL PLAN 02

DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD

PROJECT NO. 701326.00

PROFESSIONAL ENGINEER-STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7906

C3.02
SHEET 8 OF 20

CLV # L18-00533

MATCH LINE SEE SHT C3.01

Elevated Parking Structure

MATCH LINE SEE SHT C3.04

N02°04'55"W 169.54'

0+65.1 MATCH EX.

0+35.5 MATCH EX.

0+00 PT

C2

S87°51'15"W 416.39' PROPERTY LINE

S87°51'15"W 416.54'

Obscured

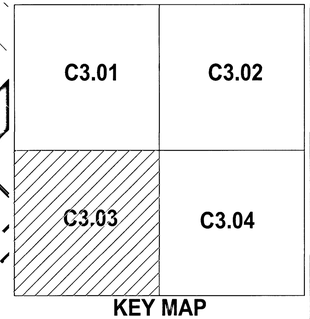
S87°51'15"W 1330.18' CENTERLINE

3+00 4+00 5+00 6+00 7+00

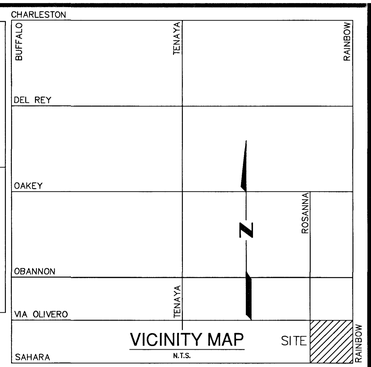
75' R/W 60.5' 8.5' EX. S/W

SAHARA AVE.

(PUBLIC)




KEY MAP




VICINITY MAP N.T.S.

SITE

| | TRAFFIC NOTES |
|---|---|
| NO | ITEM |
| 70 | INSTALL 4" WIDE WHITE PAINTED SOLID PARKING LINE |
| 71 | INSTALL 4" WIDE WHITE PAINTED DIAGONAL SOLID LINE @ 36" ON CENTER |
| 72 | NOT USED |
| 73 | CONSTRUCT HANDICAP ACCESSIBLE PARKING SPACE PER DETAIL #73 SHEET C5.02 |
| 74 | INSTALL PRE-CAST CONCRETE BUMPER BLOCK PER STD DWG #238 (OR SIMILAR) |
| 75 | INSTALL "NO PARKING-FIRE LANE" SIGN PER STD DWG #249.1 |
| 76 | PAINT CURB RED & STENCIL IN WHITE PAINT "NO PARKING-FIRE LANE" @ 50' ON CENTER |
| 77 | EX R7-1ap SIGN |
| 78 | EX R1-1 & D-1 SIGNS |
| 79 | EX R2-1 (45) SIGN |
| 80 | EX M5-6 SIGN |
| 81 | EX I-8 LIBRARY SIGN |
| 82 | FIRE TRUCK ROUTE - 24' WIDE - 52' / 28' RADII (TYP.) |

75

73

CITY OF LAS VEGAS FIRE DEPT. 7/5/18 DATE

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z 47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT-OF-WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40

1 inch = 20 ft.

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 P.T. "7C10 2SWS 1997" (NAVD 88). RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163-03-806-010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ-72340, SDR-72366, DS#4963, PMP#72875
WARD 1 - TARKANIAN

10TV7427

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.-ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "x", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |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CLARK CO., NEVADA

BMW OF LAS VEGAS

CITY OF LAS VEGAS

# TRAFFIC/HORIZONTAL CONTROL PLAN 03

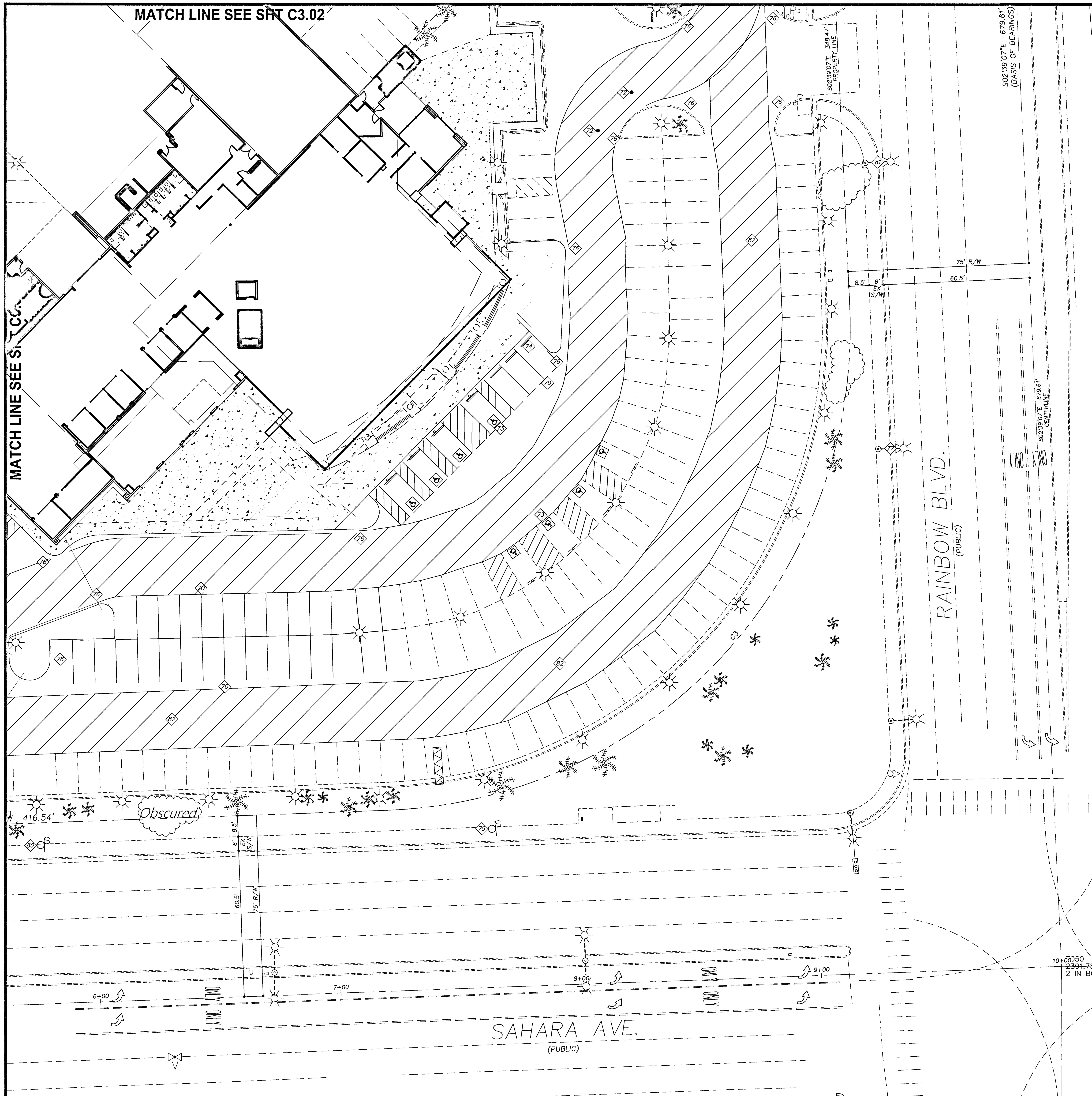
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

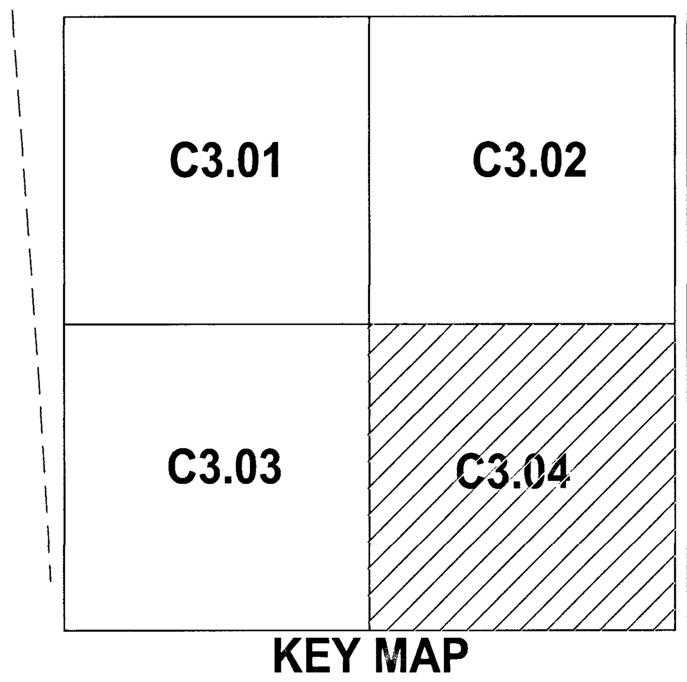
PROFESSIONAL ENGINEER - STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7008
S. C. DUNNAM

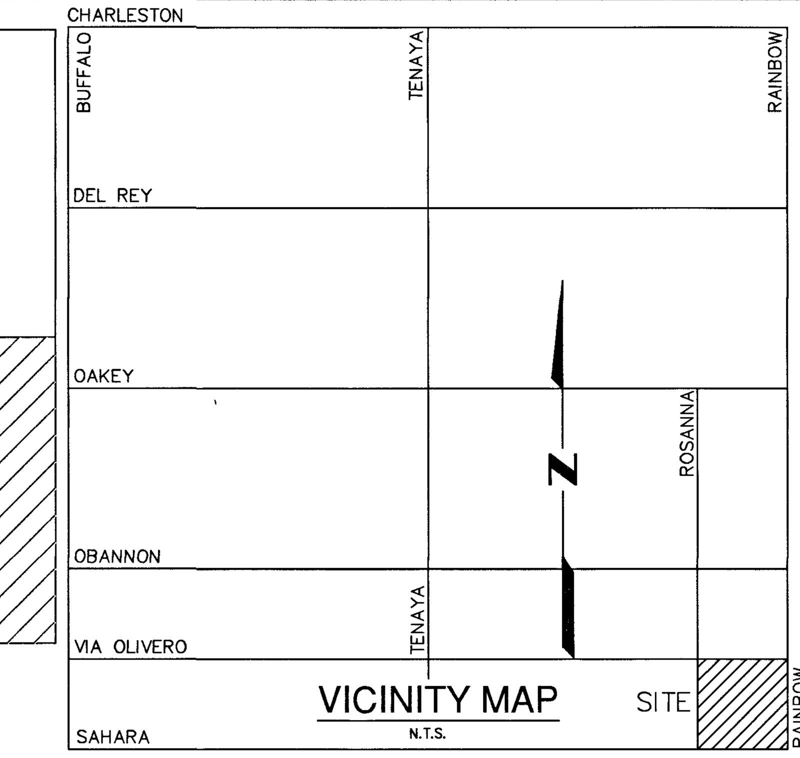
C3.03

SHEET 9 OF 20

CLV # L18-00533




| NO | TRAFFIC NOTES<br>ITEM |
|---|---|
| 70 | INSTALL 4" WIDE WHITE PAINTED SOLID PARKING LINE |
| 71 | INSTALL 4" WIDE WHITE PAINTED DIAGONAL SOLID LINE @ 36" ON CENTER |
| 72 | NOT USED |
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| 76 | PAINT CURB RED & STENCIL IN WHITE PAINT "NO PARKING-FIRE LANE" @ 50' ON CENTER |
| 77 | EX R7-1ap SIGN |
| 78 | EX R1-1 & D-1 SIGNS |
| 79 | EX R2-1 (45) SIGN |
| 80 | EX M5-6 SIGN |
| 81 | EX I-8 LIBRARY SIGN |
| 82 | FIRE TRUCK ROUTE – 24' WIDE – 52' / 28' RADII (TYP.) |
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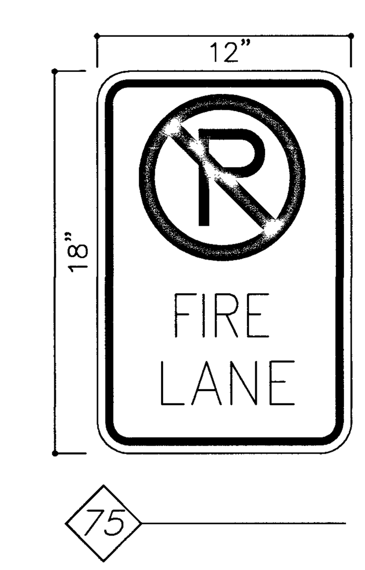
| | |
| | |



CITY OF LAS VEGAS FIRE DEPT. DATE

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT-OF-WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
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| BCR | BEGIN CURVE RETURN |
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| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40

1 inch = 20 ft.

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163-03-806-010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ-72340, SDR-72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

107V 7427

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.-ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|

T.Y.LIN INTERNATIONAL
4031 DEAN MARTIN DR.
LAS VEGAS, NV 89103
P: 702-522-7100
F: 702-522-7105
WWW.TYLIN.COM

CLARK CO., NEVADA
CITY OF LAS VEGAS

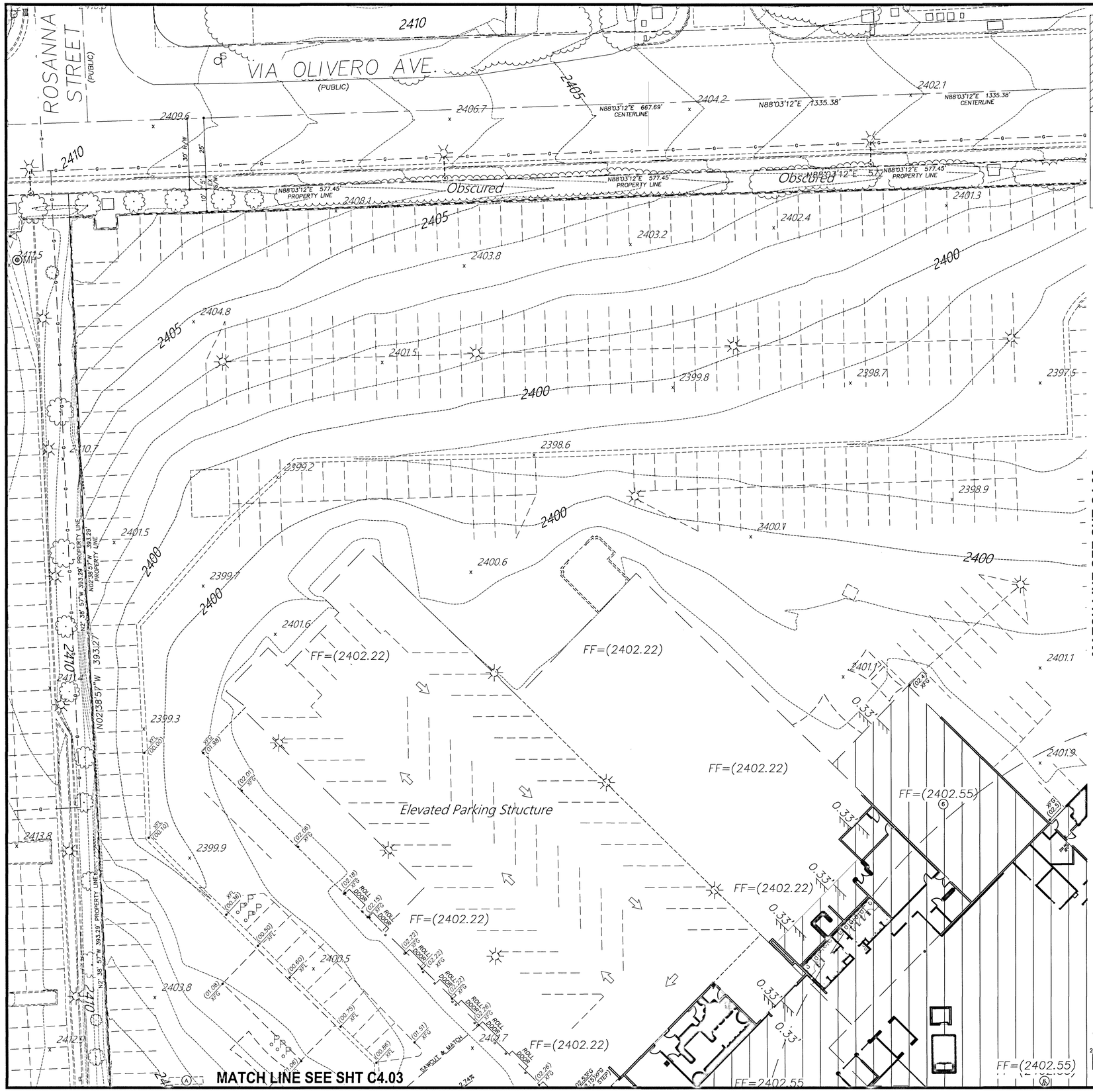
BMW OF LAS VEGAS

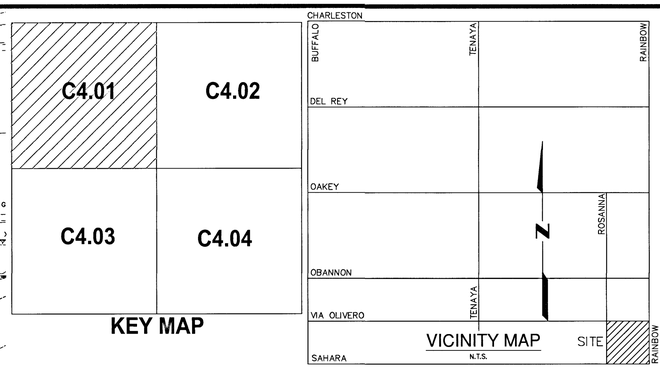
# TRAFFIC/HORIZONTAL CONTROL PLAN 04

DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER, STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL


CLV # L18-00533




| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

## CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER DETAIL #1, SHT C6.02–SEE FINISH PLAN PER ARCHITECTS PLANS & DETAILS
2. CONSTRUCT AC PAVEMENT PER PER DETAIL #2, SHT C6.02
3. CONSTRUCT 24" CONCRETE VALLEY GUTTER PER DETAIL #3, SHT C6.02
4. CONSTRUCT "A" TYPE CURB–0" FACE PER STD. DWG. #219
5. CONSTRUCT "A" TYPE CURB–6" FACE PER STD. DWG. #219
6. ROUGH GRADE PAD ELEV. IS ASSUMED TO BE 12" BELOW FINISH FLOOR ELEV. VERIFY w/ STRUCTURAL PLANS PRIOR TO ANY CONSTRUCTION.
7. PLANTER AREA
8. CONSTRUCT "L" TYPE CURB PER STD. DWG. #216
9. NOT USED
10. CONSTRUCT RETAINING WALL PER DETAIL #10 SHT C6.01 RETAINING WALL CALCS & DETAILS BY OTHERS
11. CONSTRUCT HANDICAP PARKING STALL PER DETAIL #11, SHT C6.01
12. DRAIN–THRU PER DETAIL #12 SHT C6.01
13. NDOT TYPE "3" CURB PER NDOT STD DWG #R–5.1.1 – 6" RISE
14. NOT USED
15. PROVIDE HANDRAILS PER ARCHITECTURAL DETAILS
16. 2% GRADE ALLOWED PER SOILS REPORT–SECTION: GRADING & DRAINAGE
17. CONSTRUCT CONCRETE PAVEMENT PER DETAIL #17, SHT C6.01
18. CAST IN PLACE WALL–SEE ARCHITECTURAL DETAILS

- (A) PROTECT EX LOOP DETECTORS IN PLACE
- (B) PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE
- (C) PROTECT EX ELECTRICAL TRANSFORMER IN PLACE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE (#DS4963) ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT

SAM C. DUNNAM, P.E. No. 7886 — DATE 5-15-18

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

107V7427

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

DIMENSIONS SHOWN ARE TO BACK OF CURB

7/47 DETAIL 7 SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
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| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
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| | RETAINING / SCREEN WALL |
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20 0 10 20 40
1 inch = 20 ft.


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CLARK CO., NEVADA

BMW OF LAS VEGAS

# GRADING PLAN 01

CITY OF LAS VEGAS

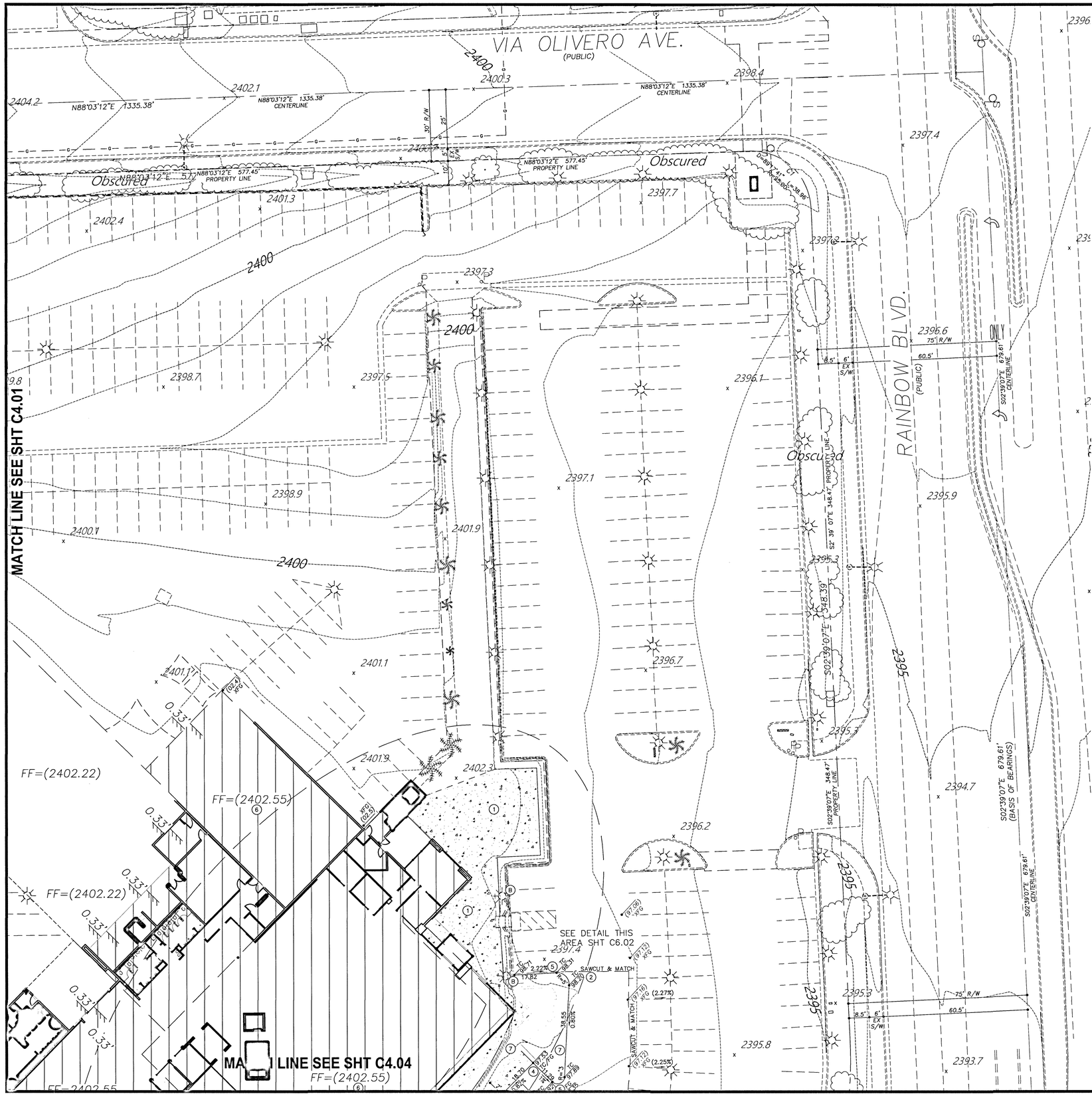
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

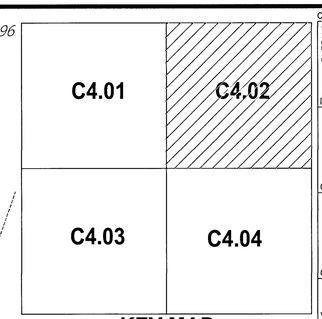
PROFESSIONAL ENGINEER–STATE OF NEVADA — SAM C. DUNNAM — EXP. 12-31-18 — CIVIL — No. 7886

C4.01

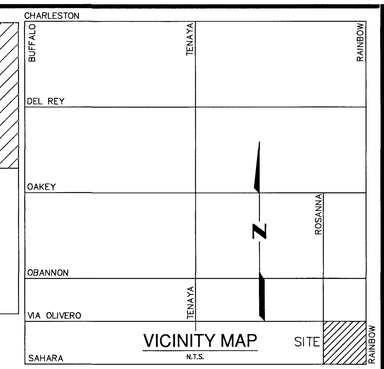
SHEET 11 OF 20

CLV # L18–00533




KEY MAP




VICINITY MAP
N.T.S.

| | CONSTRUCTION NOTES |
|---|---|
| 1 | CONSTRUCT CONCRETE SIDEWALK PER DETAIL #1, SHT C6.02–SEE FINISH PLAN PER ARCHITECTS PLANS & DETAILS |
| 2 | CONSTRUCT AC PAVEMENT PER PER DETAIL #2, SHT C6.02 |
| 3 | CONSTRUCT 24" CONCRETE VALLEY GUTTER PER DETAIL #3, SHT C6.02 |
| 4 | CONSTRUCT "A" TYPE CURB–0" FACE PER STD. DWG. #219 |
| 5 | CONSTRUCT "A" TYPE CURB–6" FACE PER STD. DWG. #219 |
| 6 | ROUGH GRADE PAD ELEV. IS ASSUMED TO BE 12" BELOW FINISH FLOOR ELEV. VERIFY w/ STRUCTURAL PLANS PRIOR TO ANY CONSTRUCTION. |
| 7 | PLANTER AREA |
| 8 | CONSTRUCT "L" TYPE CURB PER STD. DWG. #216 |
| 9 | NOT USED |
| 10 | CONSTRUCT RETAINING WALL PER DETAIL #10 SHT C6.01 RETAINING WALL CALCS & DETAILS BY OTHERS |
| 11 | CONSTRUCT HANDICAP PARKING STALL PER DETAIL #11, SHT C6.01 |
| 12 | DRAIN–THRU PER DETAIL #12 SHT C6.01 |
| 13 | NDOT TYPE "3" CURB PER NDOT STD DWG #R–5.1.1 – 6" RISE |
| 14 | NOT USED |
| 15 | PROVIDE HANDRAILS PER ARCHITECTURAL DETAILS |
| 16 | 2% GRADE ALLOWED PER SOILS REPORT–SECTION: GRADING & DRAINAGE |
| 17 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL #17, SHT C6.01 |
| 18 | CAST IN PLACE WALL–SEE ARCHITECTURAL DETAILS |
| | |
| | |
| | |
| | |
| A | PROTECT EX LOOP DETECTORS IN PLACE |
| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE (#DS4963) ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT

SAM C. DUNNAM, P.E. No. 7886 — DATE 5-15-18

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 — DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

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F: 702–522–7105
WWW.TYLIN.COM

CLARK CO., NEVADA

CITY OF LAS VEGAS

BMW OF LAS VEGAS

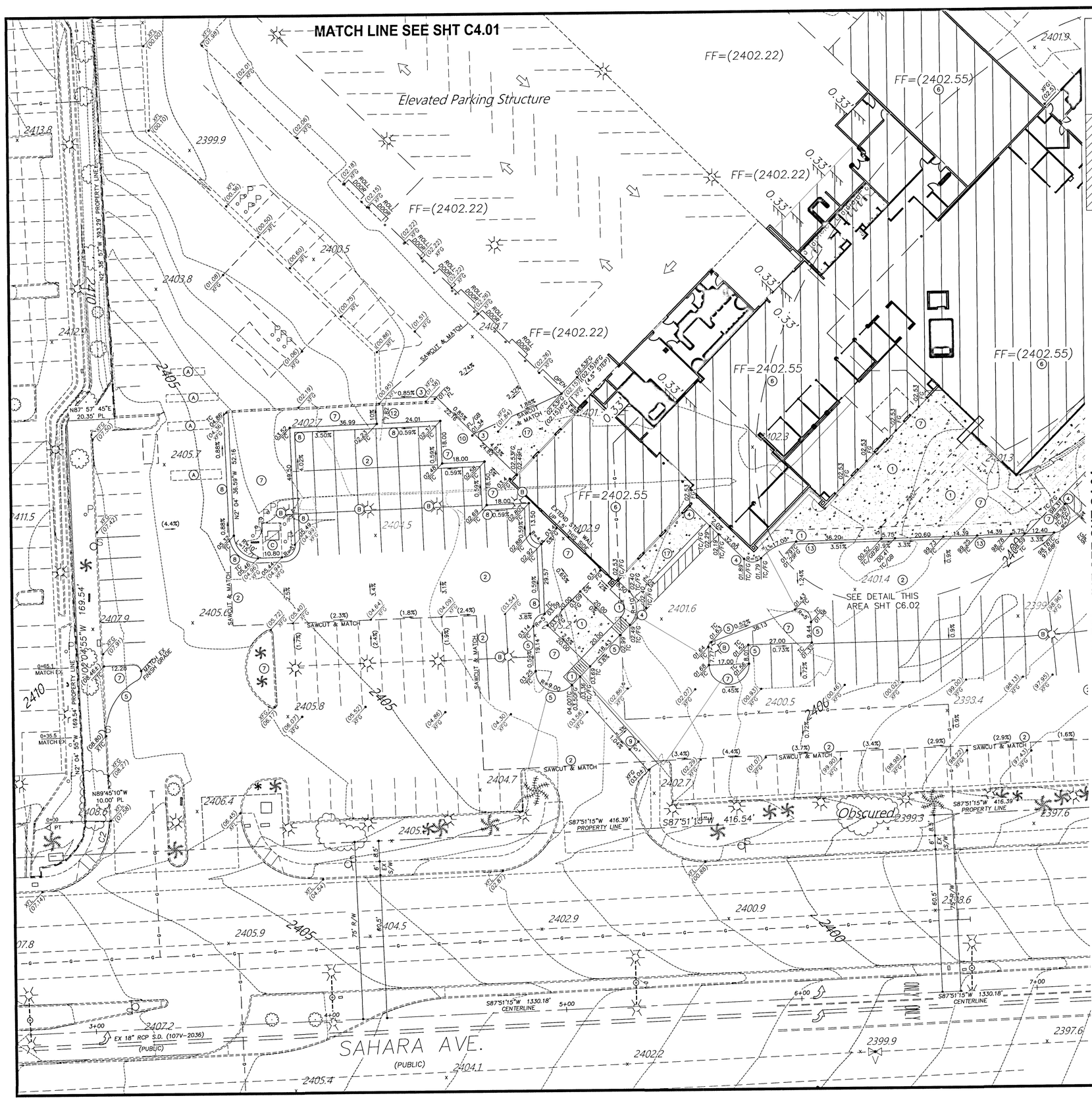
# GRADING PLAN 02

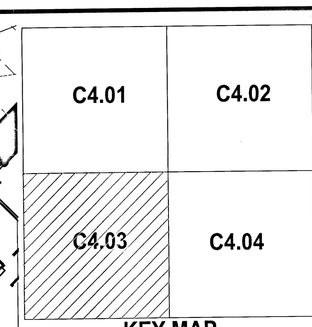
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7886
5-15-18

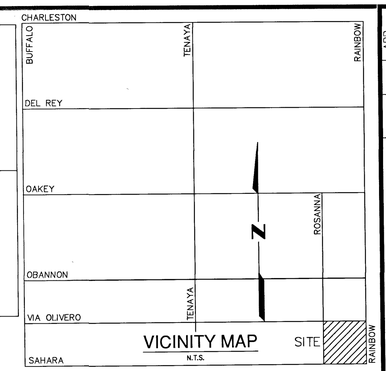
C4.02
SHEET 12 OF 20

CLV # L18–00533




KEY MAP




VICINITY MAP
N.T.S.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

## CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE SIDEWALK PER DETAIL #1, SHT C6.02–SEE FINISH PLAN PER ARCHITECTS PLANS & DETAILS
2. CONSTRUCT AC PAVEMENT PER PER DETAIL #2, SHT C6.02
3. CONSTRUCT 24" CONCRETE VALLEY GUTTER PER DETAIL #3, SHT C6.02
4. CONSTRUCT "A" TYPE CURB–0" FACE PER STD. DWG. #219
5. CONSTRUCT "A" TYPE CURB–6" FACE PER STD. DWG. #219
6. ROUGH GRADE PAD ELEV. IS ASSUMED TO BE 12" BELOW FINISH FLOOR ELEV. VERIFY w/ STRUCTURAL PLANS PRIOR TO ANY CONSTRUCTION.
7. PLANTER AREA
8. CONSTRUCT "L" TYPE CURB PER STD. DWG. #216
9. NOT USED
10. CONSTRUCT RETAINING WALL PER DETAIL #10 SHT C6.01 RETAINING WALL CALCS & DETAILS BY OTHERS
11. CONSTRUCT HANDICAP PARKING STALL PER DETAIL #11, SHT C6.01
12. DRAIN–THRU PER DETAIL #12 SHT C6.01
13. NDOT TYPE "3" CURB PER NDOT STD DWG #R–5.1.1 – 6" RISE
14. NOT USED
15. PROVIDE HANDRAILS PER ARCHITECTURAL DETAILS
16. 2% GRADE ALLOWED PER SOILS REPORT–SECTION: GRADING & DRAINAGE
17. CONSTRUCT CONCRETE PAVEMENT PER DETAIL #17, SHT C6.01
18. CAST IN PLACE WALL–SEE ARCHITECTURAL DETAILS

(A) PROTECT EX LOOP DETECTORS IN PLACE
(B) PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE
(C) PROTECT EX ELECTRICAL TRANSFORMER IN PLACE

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE (#DS4963) ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT

SAM C. DUNNAM, P.E. No. 7886 — DATE 5-15-18

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 0216S D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

10707427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CLARK CO., NEVADA

CITY OF LAS VEGAS

# BMW OF LAS VEGAS

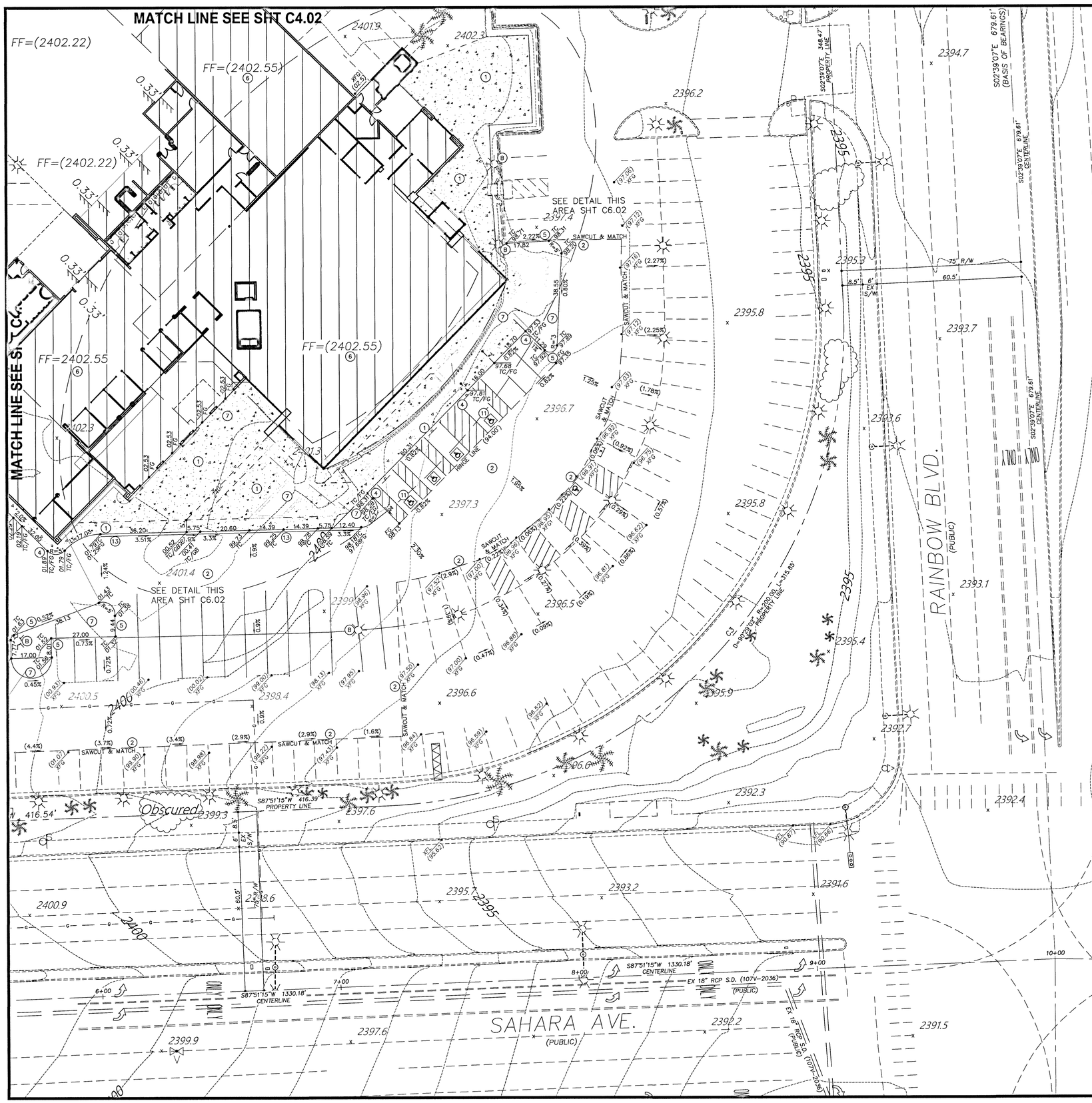
# GRADING PLAN 03

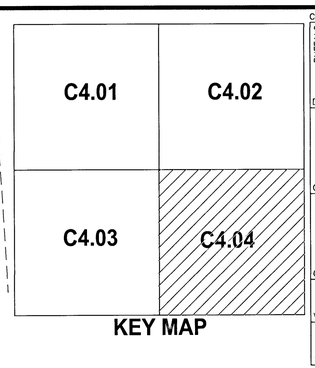
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7886

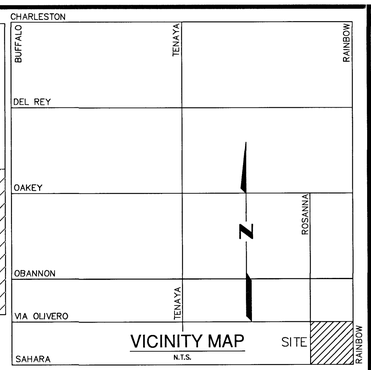
C4.03
SHEET 13 OF 20

CLV # L18–00533




KEY MAP




VICINITY MAP
N.T.S.

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |

| | CONSTRUCTION NOTES |
|---|---|
| 1 | CONSTRUCT CONCRETE SIDEWALK PER DETAIL #1, SHT C6.02–SEE FINISH PLAN PER ARCHITECTS PLANS & DETAILS |
| 2 | CONSTRUCT AC PAVEMENT PER PER DETAIL #2, SHT C6.02 |
| 3 | CONSTRUCT 24" CONCRETE VALLEY GUTTER PER DETAIL #3, SHT C6.02 |
| 4 | CONSTRUCT "A" TYPE CURB–0" FACE PER STD. DWG. #219 |
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| 6 | ROUGH GRADE PAD ELEV. IS ASSUMED TO BE 12" BELOW FINISH FLOOR ELEV. VERIFY w/ STRUCTURAL PLANS PRIOR TO ANY CONSTRUCTION. |
| 7 | PLANTER AREA |
| 8 | CONSTRUCT "L" TYPE CURB PER STD. DWG. #216 |
| 9 | NOT USED |
| 10 | CONSTRUCT RETAINING WALL PER DETAIL #10 SHT C6.01 RETAINING WALL CALCS & DETAILS BY OTHERS |
| 11 | CONSTRUCT HANDICAP PARKING STALL PER DETAIL #11, SHT C6.01 |
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| 13 | NDOT TYPE "3" CURB PER NDOT STD DWG #R–5.1.1 – 6" RISE |
| 14 | NOT USED |
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I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE (#DS4963) ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT

SAM C. DUNNAM, P.E. No. 7886 — DATE 5-15-18

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88). RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

107V7427

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

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CLARK CO., NEVADA

CITY OF LAS VEGAS

BMW OF LAS VEGAS

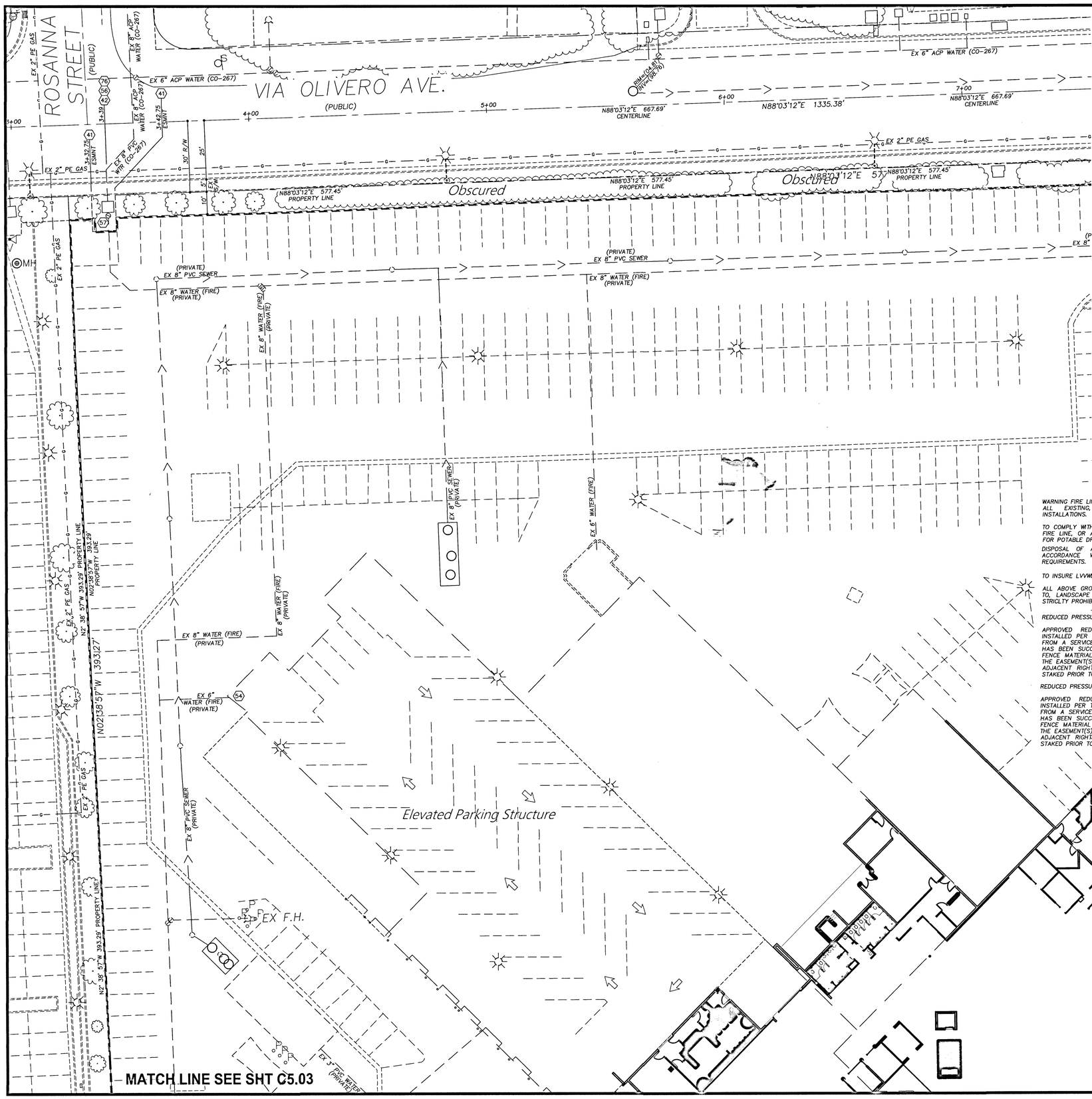
# GRADING PLAN 04

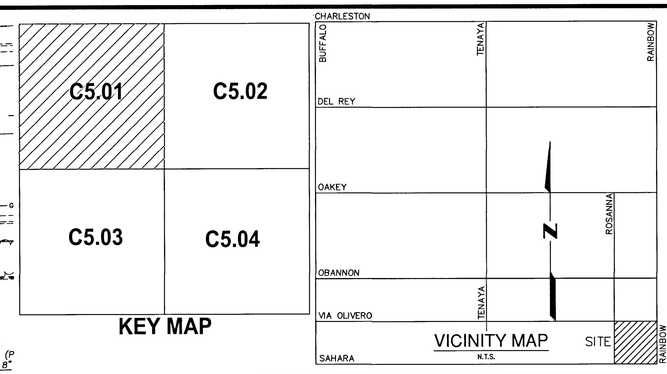
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
NO. 7886

C4.04
SHEET 14 OF 20

CLV # L18–00533




| NO | WATER & UTILITY NOTES |
|---|---|
| 40 | 35'x 55' LVVWD EASEMENT PER DOCUMENT 19941110:0001219 |
| 41 | 10'x 15' LVVWD EASEMENT PER DOCUMENT 19941110:0001220 |
| 42 | EX 8" DCDA – WILKINS SERIAL #0589523 – ACCOUNT #583051 |
| 43 | EX 8" DCDA – AMES SERIAL #026357 – ACCOUNT #583050 |
| 44 | EX 2" WATER METER & RPPA – ACCOUNT #583049 |
| 45 | CUT IN 8" 90° BEND W/ 8" GATE VALVE PER UDACS PLATES #31 & #39 |
| 46 | INSTALL PVC WATER MAIN W/TRENCH BACKFILL PER UDACS PLATE #17 – LENGTH PER PLAN |
| 47 | INSTALL 8"x 6" TEE & 6" GATE VALVE PER UDACS PLATE #31 & #39. CONNECT TO EX. 6" PVC FTRE HYDRANT LATERAL |
| 48 | REMOVE EX. PVC WATER MAIN (OMIT NEAR AREA LIGHT IF REQUIRED) |
| 49 | INSTALL 6" DUCTILE IRON PIPE SLEEVE– LENGTH PER PLAN |
| 50 | CONNECT TO EX" PVC WATER |
| 51 | 3" PVC 90° BEND |
| 52 | 3" PVC 45° BEND |
| 53 | 3"x 3" PVC TEE |
| 54 | EX BUILDING MOUNTED FIRE DEPT. CONNECTION (FDC) |
| 55 | INSTALL 2" BALL ANGLE METER STOP & TAIL PIECE IN METER BOX PER UDACS PLATE 4 – NO WATER METER (PRIVATE) |
| 56 | REMOVE EX DCDA & INSTALL 8" RPDA w/ NEW VALVE SETTER PER UDACS PLATE #56. REQUIRES NEW CONCRETE PAD & PIPING |
| 57 | CUT IN 8" GATE VALVE PER UDACS PLATES #30 & #39 |
| 58 | 15'(W) x 20' LVVWD EASEMENT PER DOCUMENT 20180808:0001221 |
| 59 | INSTALL 6"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 60 | NOT USED |
| 61 | INSTALL 8" TEE & 8" GATE VALVE PER PER UDCAS PLATES #31 & #39 |
| 62 | INSTALL 45° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 63 | INSTALL 8"x 6" REDUCER PER UDCAS PLATES #30 |
| 64 | INSTALL 6" TRANSITION COUPLING PER UDCAS PLATES #30 |
| 65 | REMOVE & REPLACE EX "L" CURB & SIDEWALK PER STD DWG'S #216 & #254 |
| 66 | INSTALL 8" RPDA PER UDCAS PLATES #56 & 8" GATE VALVE PER UDACS PLATE #30 & #39 |
| 67 | INSTALL 90° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 68 | INSTALL 8"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 69 | AC PAVEMENT PATCH PER STD DWG #500.1 |
| 70 | INSTALL 8"x 2" SERVICE SADDLE, 2" COPPER (Cu) LATERAL & 2" WATER METER PER UDACS PLATE #4 |
| 71 | BRASS WATER LINE REQUIRED BETWEEN METER & RPPA PER UDACS PLATE #4 |
| 72 | INSTALL 2" RPPA PER UDACS PLATE #8 w/CURB STOP PER DETAIL #72, SHT C6.01 |
| 73 | CONNECT TO EX. 3" PVC WATER LINE |
| 74 | 4" SCH 40 PVC BLANK CONDUIT FOR IRRIGATION USE–LENGTH PER PLAN |
| 75 | RELOCATE EX F.H TO 4.0 B/C AS SHOWN PER UDCAS PLATE #40 & DETAIL #70, SHT C6.01 – REMOVE EX PVC WATER BEYOND F.H. |
| 76 | CONTRACTORS OPTION: KEEP EX VALVE SETTER & INSTALL LVVWD APPROVED 8" RPDA ON EX ASSEMBLY PER UDCAS PLATE #56 |
| 77 | 34'(W) x 22' LVVWD EASEMENT PER DOCUMENT 2018 |

WARNING FIRE LINE (NON–POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS.

TO COMPLY WITH THE FEDERAL SAFE WATER DRINKING ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.

DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

TO INSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES / WALLS AND SIGNS ARE STRICLTY PROHIBITED WITH EASEMENT/.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (1) 2–INCH

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (3) 8–INCH

APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW REQUIREMENT IS: 3000 gallons per minute at 20 psi residual pressure.

BASED ON;

| | |
|---|---|
| SQUARE FOOTAGE: | 77,680 sq.ft. |
| LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS | 77,680 sq.ft. |
| BUILDING HEIGHT: | 38'–6" |
| NUMBER OF STORIES: | 3 |
| TYPE OF CONSTRUCTION: | III–B |
| OCCUPANCY: | B, S–1, S–2 |
| FULL AUTOMATIC FIRE SPRINKLER SYSTEM: | YES (50% REDUCTION) |
| HIGH PILE STORAGE: | NO |
| PRESSURE ZONE: | 2538 |

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z / 47 — DETAIL Z SHOWN ON SHEET #47

LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
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| | NATURAL GROUND CONTOUR |
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| des | DESIGN ELEVATION FROM PLANS |
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| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

CITY OF LAS VEGAS FIRE DEPT. — DATE 8/20/18

SOUTHWEST GAS CORPORATION — DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875 — 107V7427
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| | | | | |


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CLARK CO., NEVADA

# BMW OF LAS VEGAS

# UTILITY PLAN 01

CITY OF LAS VEGAS

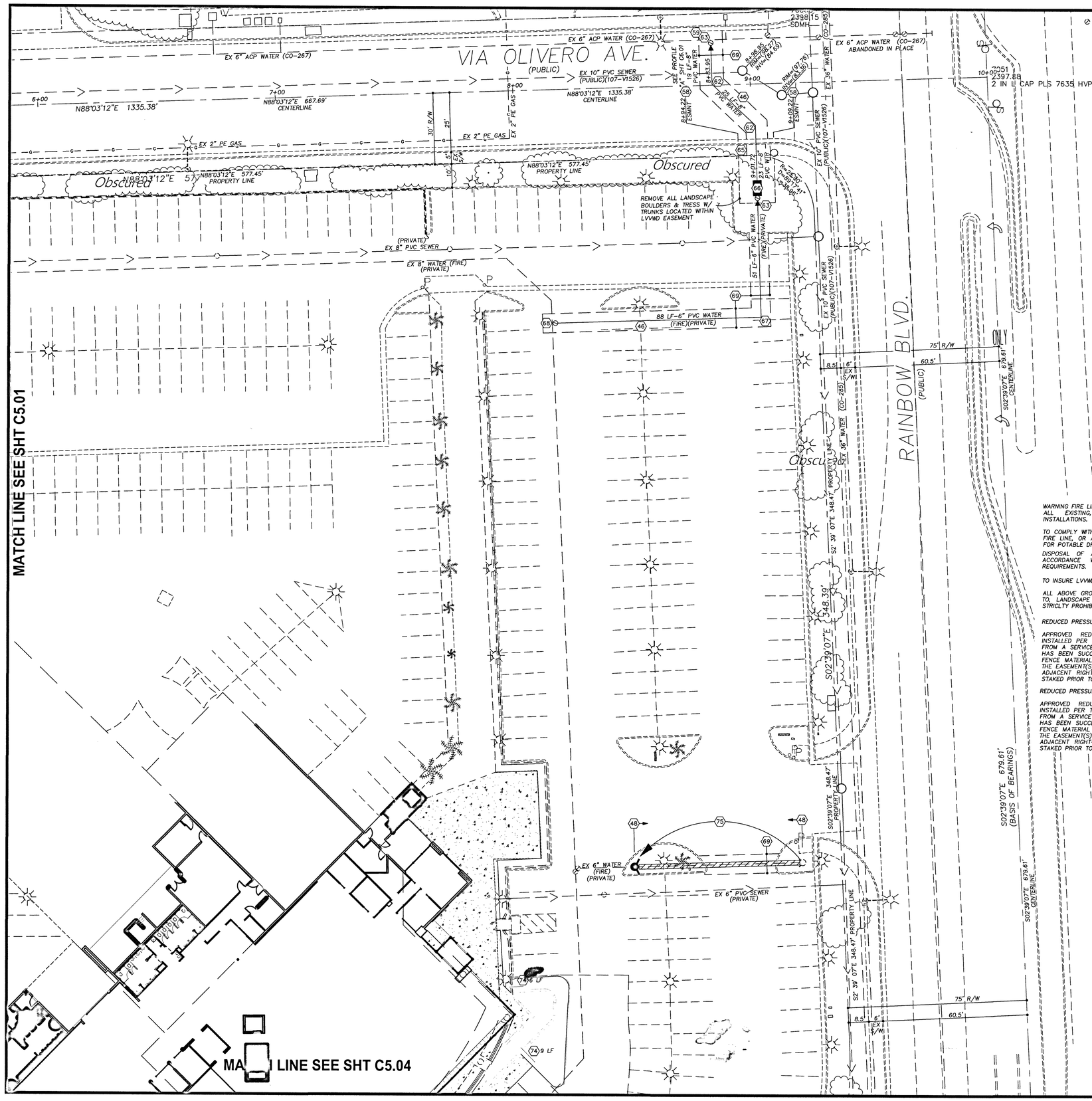
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

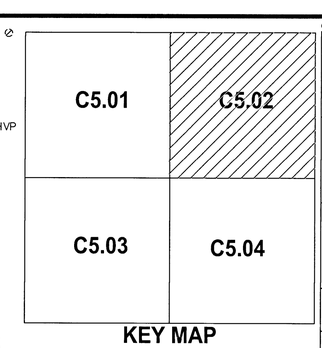
PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
NO. 7886

C5.01
SHEET 15 OF 20

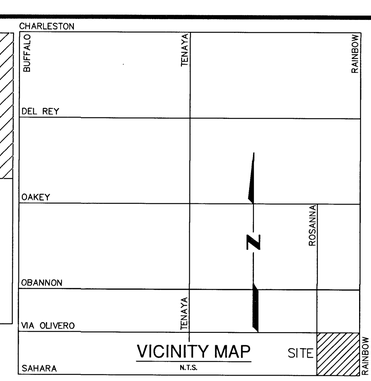
CLV # L18–00533

PROJ#:126375-A QS:163-03-SE




KEY MAP




VICINITY MAP
N.T.S.
SITE

| NO | WATER & UTILITY NOTES |
|---|---|
| 40 | 35'x 55' LVVWD EASEMENT PER DOCUMENT 19941110:0001219 |
| 41 | 10'x 15' LVVWD EASEMENT PER DOCUMENT 19941110:0001220 |
| 42 | EX 8" DCDA – WILKINS SERIAL #0589523 – ACCOUNT #583051 |
| 43 | EX 8" DCDA – AMES SERIAL #026357 – ACCOUNT #583050 |
| 44 | EX 2" WATER METER & RPPA – ACCOUNT #583049 |
| 45 | CUT IN 8" 90° BEND W/ 8" GATE VALVE PER UDACS PLATES #31 & #39 |
| 46 | INSTALL PVC WATER MAIN W/TRENCH BACKFILL PER UDACS PLATE #17 – LENGTH PER PLAN |
| 47 | INSTALL 8"x 6" TEE & 6" GATE VALVE PER UDACS PLATE #31 & #39. CONNECT TO EX. 6" PVC FIRE HYDRANT LATERAL |
| 48 | REMOVE EX. PVC WATER MAIN (OMIT NEAR AREA LIGHT IF REQUIRED) |
| 49 | INSTALL 6" DUCTILE IRON PIPE SLEEVE– LENGTH PER PLAN |
| 50 | CONNECT TO EX" PVC WATER |
| 51 | 3" PVC 90° BEND |
| 52 | 3" PVC 45° BEND |
| 53 | 3"x 3" PVC TEE |
| 54 | EX BUILDING MOUNTED FIRE DEPT. CONNECTION (FDC) |
| 55 | INSTALL 2" BALL ANGLE METER STOP & TAIL PIECE IN METER BOX PER UDACS PLATE 4 – NO WATER METER (PRIVATE) |
| 56 | REMOVE EX DCDA & INSTALL 8" RPDA w/ NEW VALVE SETTER PER UDACS PLATE #56. REQUIRES NEW CONCRETE PAD & PIPING |
| 57 | CUT IN 8" GATE VALVE PER UDACS PLATES #30 & #39 |
| 58 | 15'(W) x 20' LVVWD EASEMENT PER DOCUMENT 20180808:0001221 |
| 59 | INSTALL 6"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 60 | NOT USED |
| 61 | INSTALL 8" TEE & 8" GATE VALVE PER PER UDCAS PLATES #31 & #39 |
| 62 | INSTALL 45° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 63 | INSTALL 8"x 6" REDUCER PER UDCAS PLATES #30 |
| 64 | INSTALL 6" TRANSITION COUPLING PER UDCAS PLATES #30 |
| 65 | REMOVE & REPLACE EX "L" CURB & SIDEWALK PER STD DWG'S #216 & #254 |
| 66 | INSTALL 8" RPDA PER UDCAS PLATES #56 & 8" GATE VALVE PER UDACS PLATE #30 & #39 |
| 67 | INSTALL 90° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 68 | INSTALL 8"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 69 | AC PAVEMENT PATCH PER STD DWG #500.1 |
| 70 | INSTALL 8"x 2" SERVICE SADDLE, 2" COPPER ($C_U$) LATERAL & 2" WATER METER PER UDACS PLATE #4 |
| 71 | BRASS WATER LINE REQUIRED BETWEEN METER & RPPA PER UDACS PLATE #4 |
| 72 | INSTALL 2" RPPA PER UDACS PLATE #8 w/CURB STOP PER DETAIL #72, SHT C6.01 |
| 73 | CONNECT TO EX. 3" PVC WATER LINE |
| 74 | 4" SCH 40 PVC BLANK CONDUIT FOR IRRIGATION USE–LENGTH PER PLAN |
| 75 | RELOCATE EX F.H TO 4.0 B/C AS SHOWN PER UDCAS PLATE #40 & DETAIL #70, SHT C6.01 – REMOVE EX PVC WATER BEYOND F.H. |
| 76 | CONTRACTORS OPTION: KEEP EX VALVE SETTER & INSTALL LVVWD APPROVED 8" RPDA ON EX ASSEMBLY PER UDCAS PLATE #56 |
| 77 | 34'(W) x 22' LVVWD EASEMENT PER DOCUMENT 2018 |

WARNING FIRE LINE (NON–POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS.

TO COMPLY WITH THE FEDERAL SAFE WATER DRINKING ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.

DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

TO INSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES / WALLS AND SIGNS ARE STRICLTY PROHIBITED WITH EASEMENT/.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (1) 2–INCH

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (3) 8–INCH

APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW REQUIREMENT IS: 3000 gallons per minute at 20 psi residual pressure.

BASED ON;
- SQUARE FOOTAGE: 77,680 sq.ft.
- LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS 77,680 sq.ft.
- BUILDING HEIGHT: 35'–6"
- NUMBER OF STORIES: 3
- TYPE OF CONSTRUCTION: III–B
- OCCUPANCY: B, S–1, S–2
- FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES (50% REDUCTION)
- HIGH PILE STORAGE: NO
- PRESSURE ZONE: 2538

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

CITY OF LAS VEGAS FIRE DEPT. 8/20/18 DATE

SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ.– 72340, SDR–72366, DS#4963, PMP#72875 107V7427
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|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CLARK CO., NEVADA

# BMW OF LAS VEGAS

# UTILITY PLAN 02

CITY OF LAS VEGAS

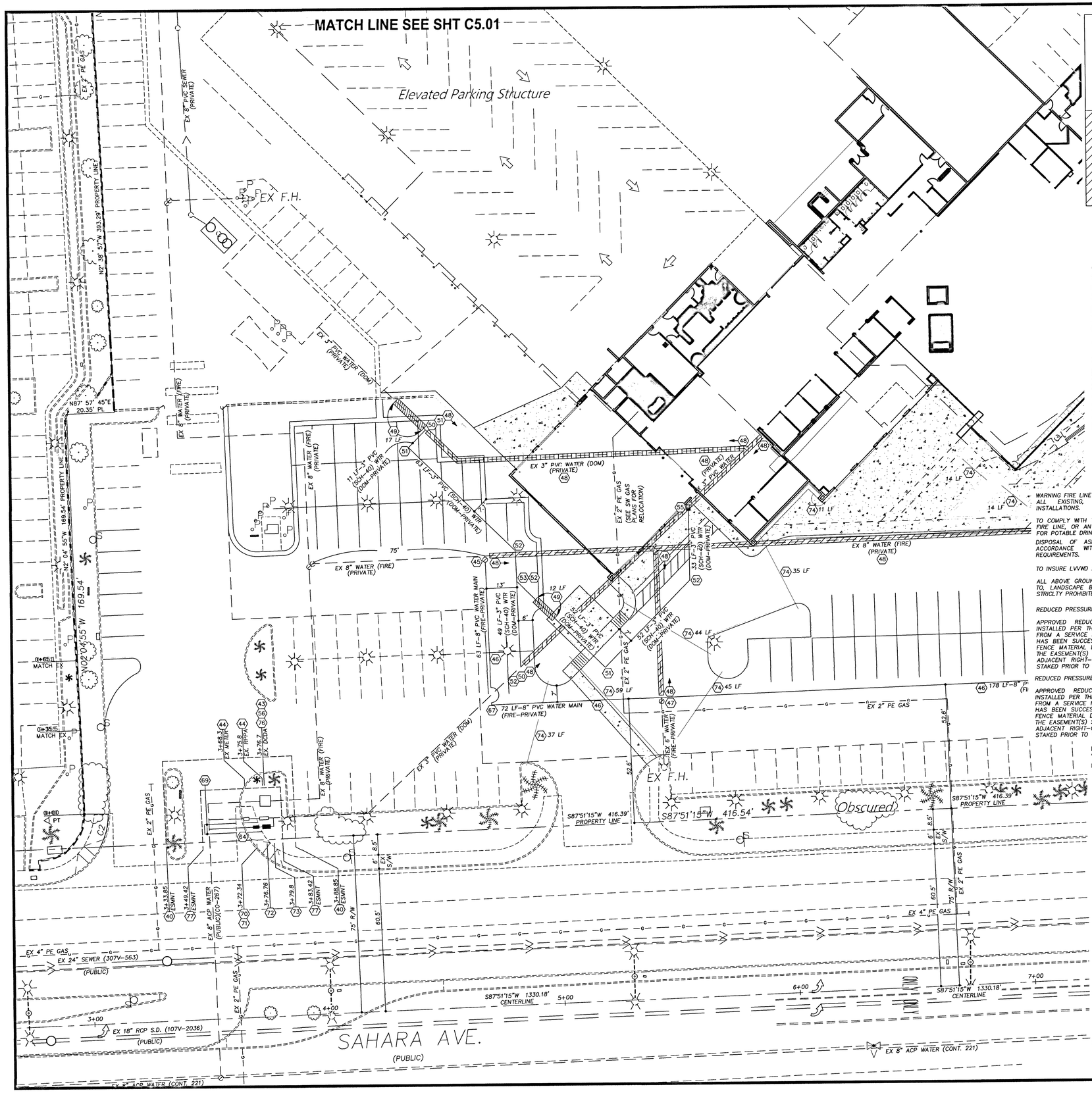
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

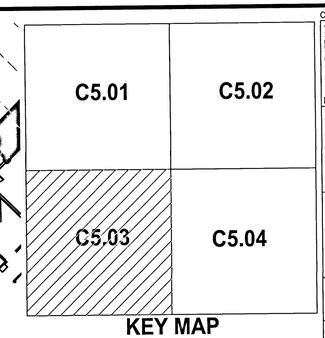
PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7898

C5.02
SHEET 16 OF 20

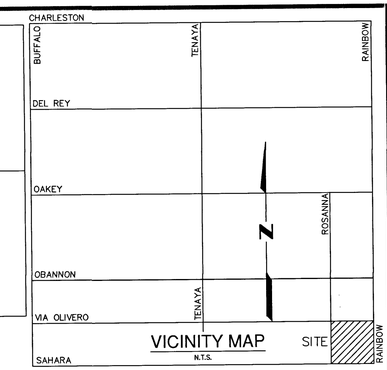
CLV # L18–00533

PROJ#:126375-A QS:163-03-SE




KEY MAP




VICINITY MAP SITE
N.T.S.

| NO | WATER & UTILITY NOTES |
|---|---|
| 40 | 35'x 55' LVVWD EASEMENT PER DOCUMENT 19941110:0001219 |
| 41 | 10'x 15' LVVWD EASEMENT PER DOCUMENT 19941110:0001220 |
| 42 | EX 8" DCDA – WILKINS SERIAL #0589523 – ACCOUNT #583051 |
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| 44 | EX 2" WATER METER & RPPA – ACCOUNT #583049 |
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| 50 | CONNECT TO EX" PVC WATER |
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| 55 | INSTALL 2" BALL ANGLE METER STOP & TAIL PIECE IN METER BOX PER UDACS PLATE 4 – NO WATER METER (PRIVATE) |
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| 57 | CUT IN 8" GATE VALVE PER UDACS PLATES #30 & #39 |
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| 77 | 34(W) x 22' LVVWD EASEMENT PER DOCUMENT 2018 |

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FIRE FLOW REQUIREMENT IS: 3000 gallons per minute at 20 psi residual pressure.

BASED ON:

| | |
|---|---|
| SQUARE FOOTAGE: | 77,680 sq.ft. |
| LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS | 77,680 sq.ft. |
| BUILDING HEIGHT: | 38'–6" |
| NUMBER OF STORIES: | 3 |
| TYPE OF CONSTRUCTION: | III–B |
| OCCUPANCY: | B, S–1, S–2 |
| FULL AUTOMATIC FIRE SPRINKLER SYSTEM: | YES (50% REDUCTION) |
| HIGH PILE STORAGE: | NO |
| PRESSURE ZONE: | 2538 |

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z / 47 DETAIL Z SHOWN ON SHEET #47

LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40
1 inch = 20 ft.

CITY OF LAS VEGAS FIRE DEPT. 8/20/18 DATE

SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

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ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

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ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

107V7427

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|


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F: 702–522–7105
WWW.TYLIN.COM


CLARK CO., NEVADA

BMW OF LAS VEGAS

# UTILITY PLAN 03

CITY OF LAS VEGAS

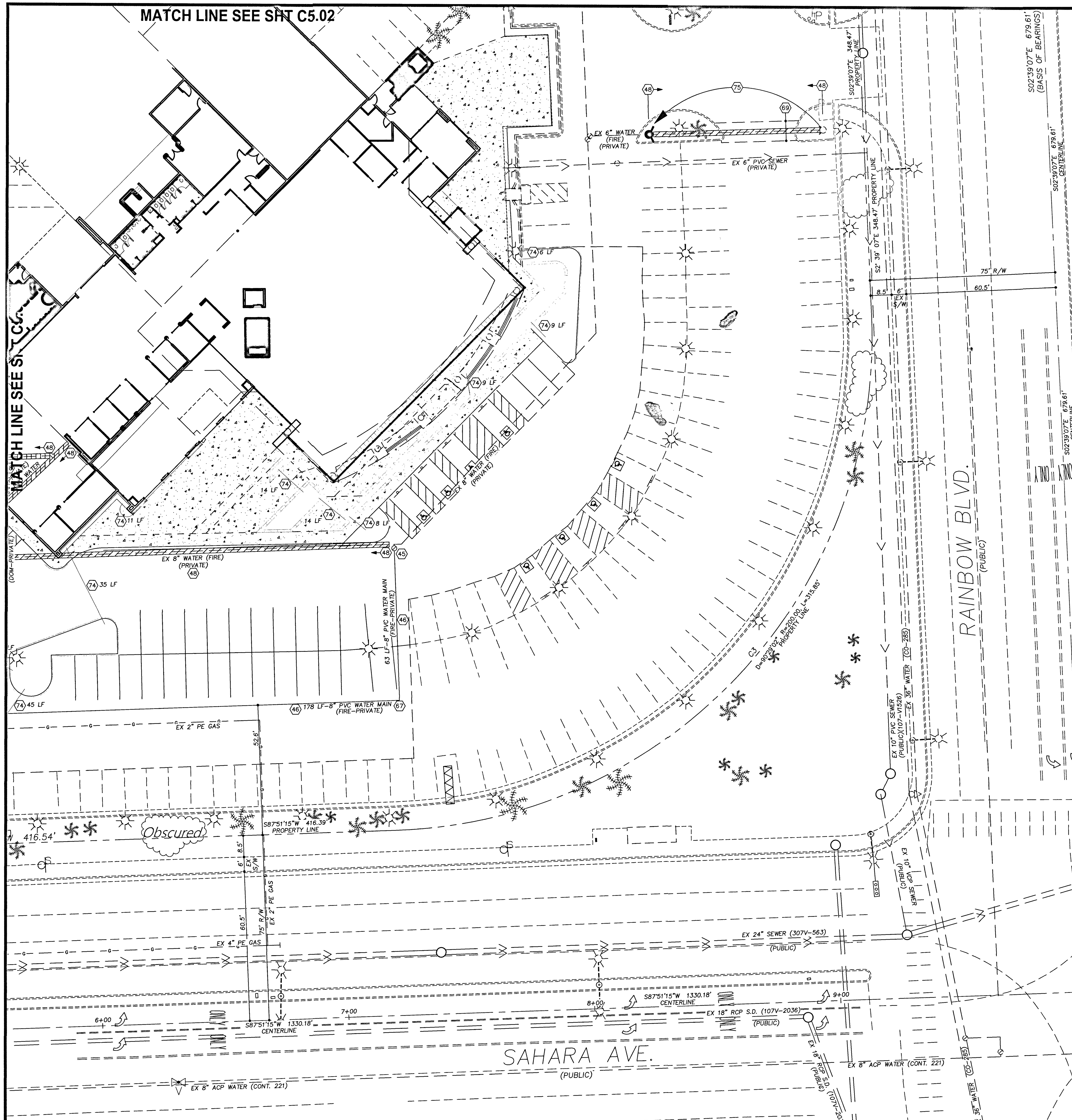
DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

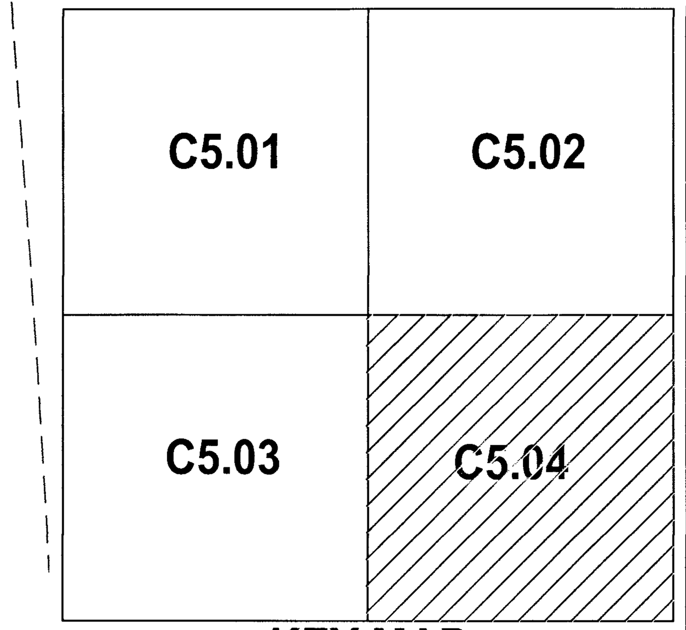
PROFESSIONAL ENGINEER – STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 12808

C5.03
SHEET 17 OF 20

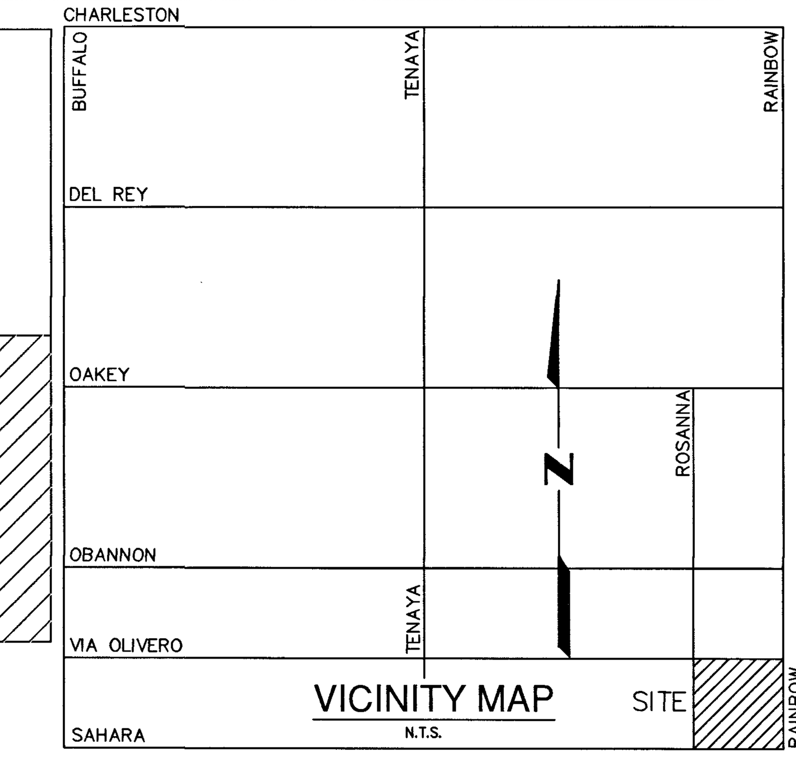
CLV # L18–00533

PROJ#:126375-A QS:163-03-SE




## KEY MAP




## VICINITY MAP

N.T.S.

| NO | WATER & UTILITY NOTES |
|---|---|
| 40 | 35'x 55' LVVWD EASEMENT PER DOCUMENT 19941110:0001219 |
| 41 | 10'x 15' LVVWD EASEMENT PER DOCUMENT 19941110:0001220 |
| 42 | EX 8" DCDA – WILKINS SERIAL #0589523 – ACCOUNT #583051 |
| 43 | EX 8" DCDA – AMES SERIAL #026357 – ACCOUNT #583050 |
| 44 | EX 2" WATER METER & RPPA – ACCOUNT #583049 |
| 45 | CUT IN 8" 90° BEND W/ 8" GATE VALVE PER UDACS PLATES #31 & #39 |
| 46 | INSTALL PVC WATER MAIN W/TRENCH BACKFILL PER UDACS PLATE #17 – LENGTH PER PLAN |
| 47 | INSTALL 8"x 6" TEE & 6" GATE VALVE PER UDACS PLATE #31 & #39. CONNECT TO EX. 6" PVC FTRE HYDRANT LATERAL |
| 48 | REMOVE EX. PVC WATER MAIN (OMIT NEAR AREA LIGHT IF REQUIRED) |
| 49 | INSTALL 6" DUCTILE IRON PIPE SLEEVE– LENGTH PER PLAN |
| 50 | CONNECT TO EX" PVC WATER |
| 51 | 3" PVC 90° BEND |
| 52 | 3" PVC 45° BEND |
| 53 | 3"x 3" PVC TEE |
| 54 | EX BUILDING MOUNTED FIRE DEPT. CONNECTION (FDC) |
| 55 | INSTALL 2" BALL ANGLE METER STOP & TAIL PIECE IN METER BOX PER UDACS PLATE 4 – NO WATER METER (PRIVATE) |
| 56 | REMOVE EX DCDA & INSTALL 8" RPDA w/ NEW VALVE SETTER PER UDACS PLATE #56. REQUIRES NEW CONCRETE PAD & PIPING |
| 57 | CUT IN 8" GATE VALVE PER UDACS PLATES #30 & #39 |
| 58 | 15'(W) x 20' LVVWD EASEMENT PER DOCUMENT 20180808:0001221 |
| 59 | INSTALL 6"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 60 | NOT USED |
| 61 | INSTALL 8" TEE & 8" GATE VALVE PER PER UDCAS PLATES #31 & #39 |
| 62 | INSTALL 45° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 63 | INSTALL 8"x 6" REDUCER PER UDCAS PLATES #30 |
| 64 | INSTALL 6" TRANSITION COUPLING PER UDCAS PLATES #30 |
| 65 | REMOVE & REPLACE EX "L" CURB & SIDEWALK PER STD DWG'S #216 & #254 |
| 66 | INSTALL 8" RPDA PER UDCAS PLATES #56 & 8" GATE VALVE PER UDACS PLATE #30 & #39 |
| 67 | INSTALL 90° BEND PER UDACS PLATE #31 – SIZE PER PLAN |
| 68 | INSTALL 8"x 6" STAINLESS STEEL TAPPING SLEEVE & 6" TAPPING VALVE PER UDACS PLATES 30, 34 & 39 |
| 69 | AC PAVEMENT PATCH PER STD DWG #500.1 |
| 70 | INSTALL 8"x 2" SERVICE SADDLE, 2" COPPER (Cu) LATERAL & 2" WATER METER PER UDACS PLATE #4 |
| 71 | BRASS WATER LINE REQUIRED BETWEEN METER & RPPA PER UDACS PLATE #4 |
| 72 | INSTALL 2" RPPA PER UDACS PLATE #8 w/CURB STOP PER DETAIL #72, SHT C6.01 |
| 73 | CONNECT TO EX. 3" PVC WATER LINE |
| 74 | 4" SCH 40 PVC BLANK CONDUIT FOR IRRIGATION USE–LENGTH PER PLAN |
| 75 | RELOCATE EX F.H TO 4.0 B/C AS SHOWN PER UDCAS PLATE #40 & DETAIL #70, SHT C6.01 – REMOVE EX PVC WATER BEYOND F.H. |
| 76 | CONTRACTORS OPTION: KEEP EX VALVE SETTER & INSTALL LVVWD APPROVED 8" RPDA ON EX ASSEMBLY PER UDCAS PLATE #56 |
| 77 | 34(W) x 22' LVVWD EASEMENT PER DOCUMENT 2018 |

WARNING FIRE LINE (NON–POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS.

TO COMPLY WITH THE FEDERAL SAFE WATER DRINKING ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.

DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

TO INSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES / WALLS AND SIGNS ARE STRICLTY PROHIBITED WITH EASEMENT/.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (1) 2–INCH

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (3) 8–INCH

APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR FENCE MATERIAL DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW REQUIREMENT IS: 3000 gallons per minute at 20 psi residual pressure.

BASED ON;

| | |
|---|---|
| SQUARE FOOTAGE: | 77,680 sq.ft. |
| LARGEST AREA BETWEEN 4–HOUR AREA SEPARATION WALLS | 77,680 sq.ft. |
| BUILDING HEIGHT: | 38'–6" |
| NUMBER OF STORIES: | 3 |
| TYPE OF CONSTRUCTION: | III–B |
| OCCUPANCY: | B, S–1, S–2 |
| FULL AUTOMATIC FIRE SPRINKLER SYSTEM: | YES (50% REDUCTION) |
| HIGH PILE STORAGE: | NO |
| PRESSURE ZONE: | 2538 |

DIMENSIONS SHOWN ARE TO BACK OF CURB

Z/47 DETAIL Z SHOWN ON SHEET #47

## LEGEND

| | |
|---|---|
| CL | CENTERLINE |
| R/W | RIGHT–OF–WAY |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| EX | EXISTING |
| FF | FINISH FLOOR |
| TC | TOP OF CURB |
| PT | POINT OF TANGENCY |
| SVRZ | SITE VISIBILITY RESTRICTION ZONE |
| TRW | TOP OF RETAINING WALL |
| FTG | TOP OF FOOTING |
| | NATURAL GROUND CONTOUR |
| BCR | BEGIN CURVE RETURN |
| des | DESIGN ELEVATION FROM PLANS |
| PROJ | PROJECTION |
| | RETAINING / SCREEN WALL |
| des | DESIGN ELEVATION FROM AVAILABLE PLANS |

20 0 10 20 40

1 inch = 20 ft.

CITY OF LAS VEGAS FIRE DEPT. DATE 8/20/18

SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

## BENCHMARK

CLARK CO. VERTICAL CONTROL V.2003 PT. "7C10 2SWS 1997" (NAVD 88), RIVET & ROUND ALUM. PLATE IN TC, NE COR. OF RAINBOW & SAHARA, NEAR THE PC OF RAINBOW. ELEV.=2,392.63 (US SURVEY FEET )= 729.274 (METERS) – INFORMATION PROVIDED BY COLLINS ENG. DATED 1/08/18.

ADD 2300.00 FEET TO ALL GRADES FOR TRUE MEAN SEA ELEVATION, EXCEPT FOR CONTOURS AND FINISH FLOOR ELEVATION

## BASIS OF BEARING

S 02°39'07" E, BEING THE BEARING OF THE CENTERLINE OF RAINBOW & THE EAST LINE OF THE SE 1/4 OF THE SE 1/4 OF SEC. 3, T.21S., R.60E., M.D.M., CITY OF LAS VEGAS, CLARK CO., NV, AS SHOWN IN FILE 128 OF SURVEYS, PAGE 46.

## GEOTECHNICAL REPORT

ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL REPORT PREPARED BY McGETTIGAN CONSULTING, LLC, DATED 02/27/18, PROJECT NO. 1800701.

## REFERENCE INFORMATION

APN 163–03–806–010
DEED 20160725:01560
PM FILE 123, PAGE 49

107V7427

ZONING INFORMATION
GENERAL COMMERCIAL (C2)
PROJ–72340, SDR–72366, DS#4963, PMP#72875
WARD 1 – TARKANIAN

LEGAL DESCRIPTION
POR. GOVT LOTS 130, 131 & 132 WITHIN SE1/4 SE1/4 SEC. 3, T.21S., R.60E., CITY OF LAS VEGAS, CLARK CO. NV.–ROS FILE 128, PAGE 46, #20030226:1042

FLOOD ZONE
UNSHADED ZONE "X", COMMUNITY MAP 32003 C 02165 D, DATED 11/16/2011
AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|

T·Y·LIN INTERNATIONAL
4031 DEAN MARTIN DR.
LAS VEGAS, NV 89103
P: 702–522–7100
F: 702–522–7105
WWW.TYLIN.COM

CLARK CO., NEVADA

CITY OF LAS VEGAS

# BMW OF LAS VEGAS

# UTILITY PLAN 04

DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

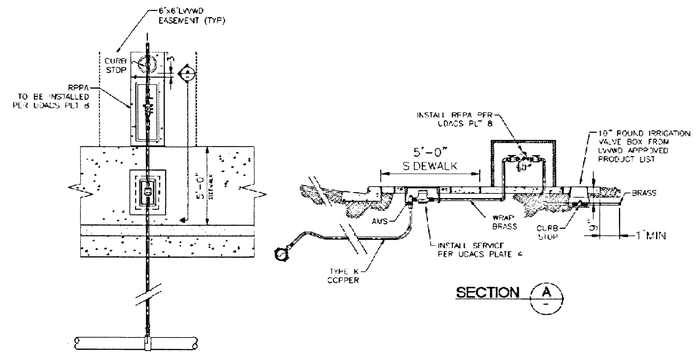
PROFESSIONAL ENGINEER – STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
6-15-18

C5.04



CLV # L18–00533

PROJ#:126375-A QS:163-03-SE

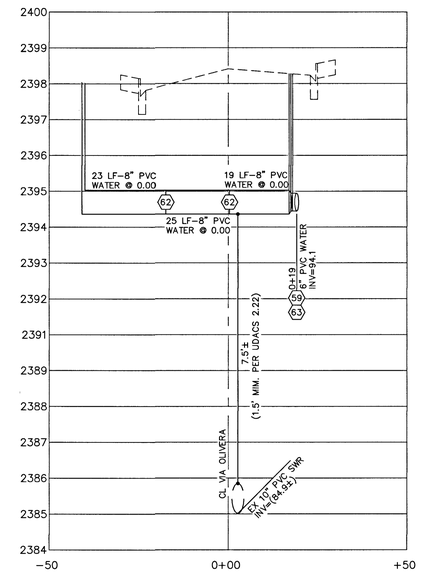



SECTION A

## UDACS PLATE #4 & #8 MODIFIED w/ CURB STOP

72 / C5.02

SCALE: NONE




## PROFILE "A" VIA OLIVERA

A / C5.02

SCALE: HORZ: 1" = 20' / VERT: 1" = 2'

| NO | WATER & UTILITY NOTES |
|---|---|
| 40 | 35'x 55' LVVWD EASEMENT PER DOCUMENT 19941110:0001219 |
| 41 | 10'x 15' LVVWD EASEMENT PER DOCUMENT 19941110:0001220 |
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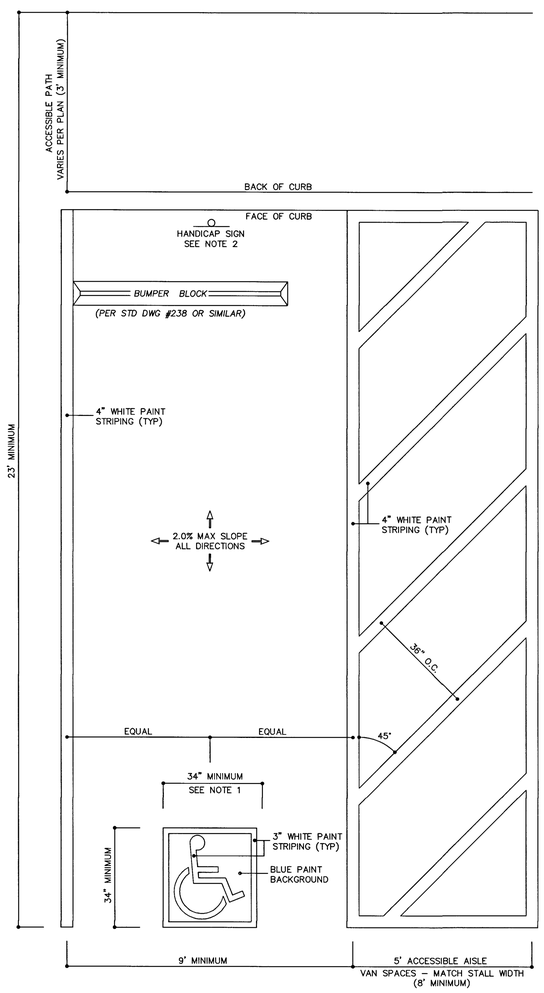
| 76 | CONTRACTORS OPTION: KEEP EX VALVE SETTER & INSTALL LVVWD APPROVED 8" RPDA ON EX ASSEMBLY PER UDCAS PLATE #56 |
| 77 | 34'(W) x 22' LVVWD EASEMENT PER DOCUMENT 2018 |

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 126375 FIRST APPROVED DATE 8/21/18
LVVWD APPROVED FIRE FLOW: TOTAL = 3000 GPM / ONSITE = 3000 GPM

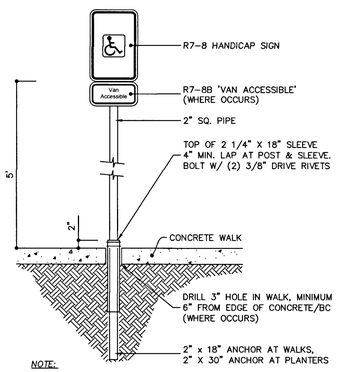
N
20 0 10 20 40
1 inch = 20 ft.




## ACCESSIBLE PARKING STALL (NEVADA)

11 / C3.01

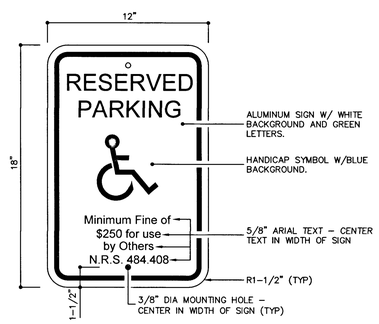
SCALE: NONE




NOTE:

ALL COMPONENTS TO BE GALVANIZED SQUARE POST. ATTACH ANCHOR TO SLEEVE PRIOR TO DRIVING INTO GROUND.

## HANDICAP SIGN MOUNTING

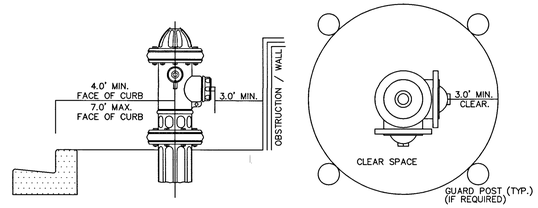



## HANDICAP SIGN

(MUTCD R7-8 W/ ADD'L LETTERING AS SHOWN)

NOTES:

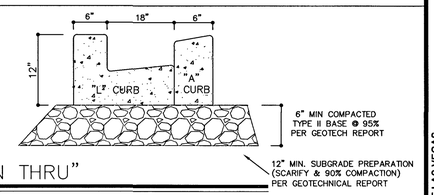
1. INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE IN ACCORDANCE WITH THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS SECT 4.30.5.
2. HANDICAP SIGN SHALL BE MUTCD R7-8 WITH ADDITIONAL WORDING AS SHOWN. PROVIDE AND INSTALL R7-8B "VAN ACCESSIBLE" AT ALL VAN SPACES (PER PLAN).




## FIRE HYDRANT DETAIL

75 / C5.02

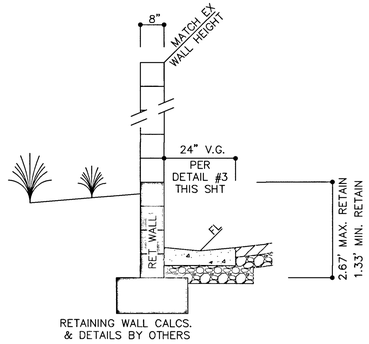
SCALE: N.T.S.




## "DRAIN THRU"

12 / C4.01

SCALE: NONE

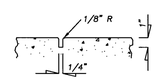



## RETAINING WALL SECTION

10 / C4.03

SCALE: NONE

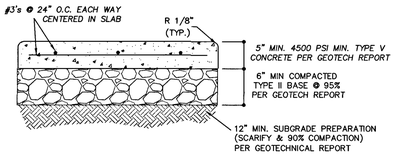
PER SOILS REPORT




## CONTRACTION JOINT

(WEAKENED PLANE JOINT)

CONTRACTION JOINTS @ 10' INTERVALS




## (ON-SITE) CONCRETE PAVEMENT SECTION

17 / C4.01

SCALE: NONE

PER SOILS REPORT

107V7427

| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| 1 | REVISE DETAIL N2 | 12/12/17 | SCD | |


T·Y·LIN INTERNATIONAL
4031 DEAN MARTIN DR.
LAS VEGAS, NV 89103
P: 702-522-7100
F: 702-522-7105
WWW.TYLIN.COM


CLARK CO., NEVADA

BMW OF LAS VEGAS

CITY OF LAS VEGAS

# DETAIL / SECTION SHEET 1

DATE: 3/2018

DRAFTER: JC

DESIGNER: SCD

CHECKED: SCD

PROJECT NO. 701326.00

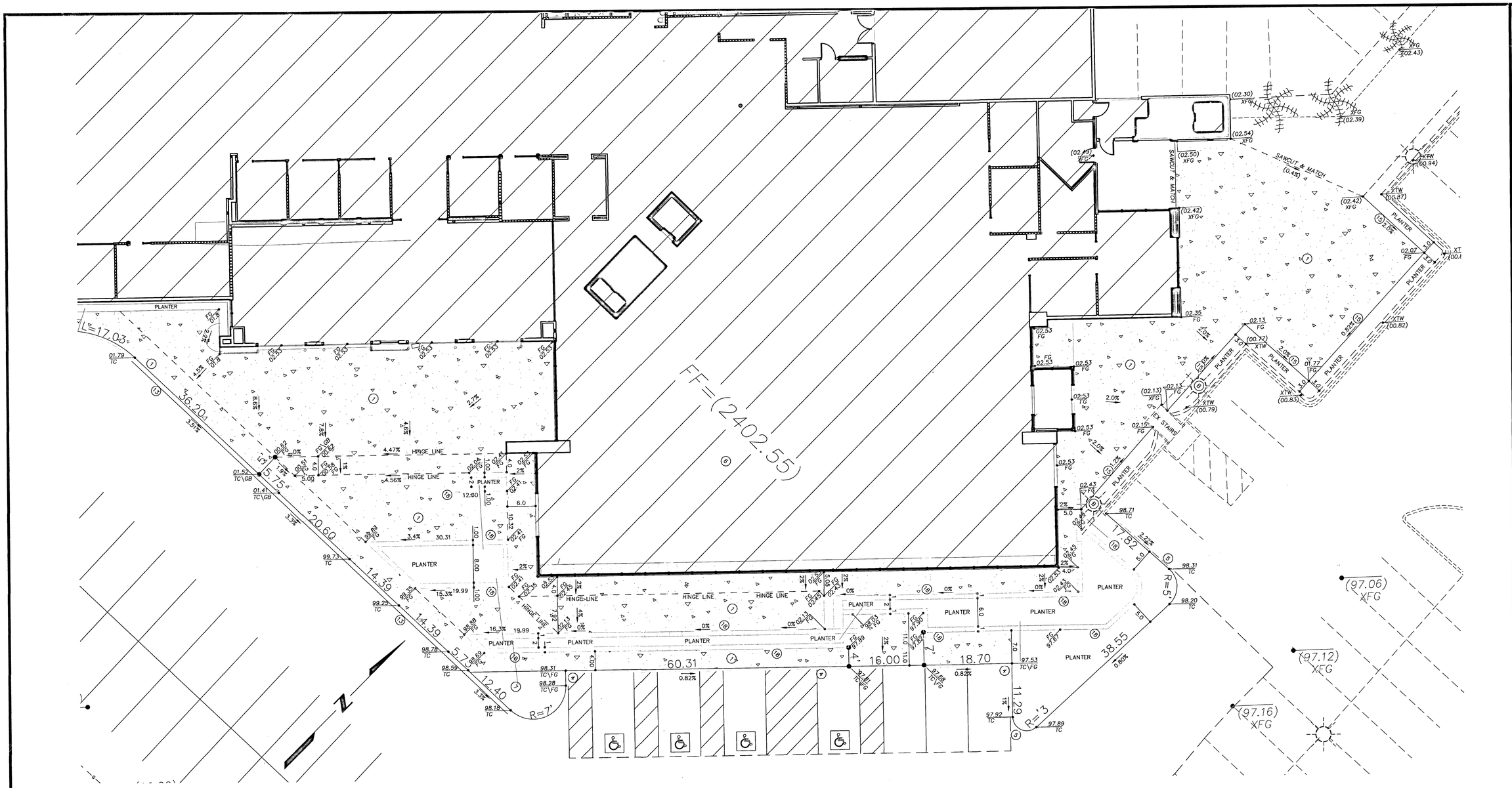
PROFESSIONAL ENGINEER – STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 24808

C6.01

SHEET 19 OF 20

CLV # L18-00533

PROJ#:126375-A QS:163-03-SE




| NO. | DESCRIPTION | DATE | BY | APP. DATE |
|---|---|---|---|---|
| 1 | REVISE SW GAS PLAN | 12/12/17 | SCD | |

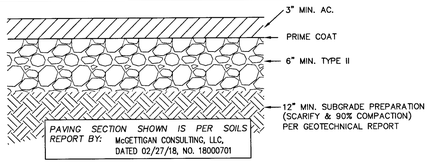
TYLIN INTERNATIONAL
4031 DEAN MARTIN DR.
LAS VEGAS, NV 89103
P: 702-522-7100
F: 702-522-7105
WWW.TYLIN.COM

CLARK CO., NEVADA

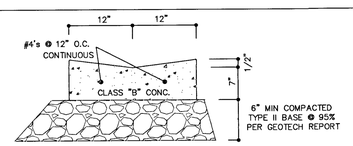
CITY OF LAS VEGAS

BMW OF LAS VEGAS

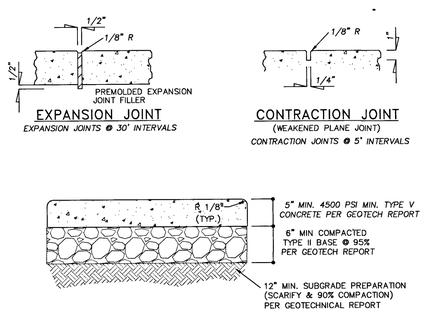
# DETAIL / SECTION SHEET 2




2 C4.01 (ON-SITE) ASPHALT PAVMENT SECTION
SCALE: NONE — PER SOILS REPORT




3 C4.01 24" VALLEY GUTTER
SCALE: NONE




1 C4.01 (ON-SITE) CONCRETE SIDEWALK SECTION
SCALE: NONE — PER SOILS REPORT

| | CONSTRUCTION NOTES |
|---|---|
| 1 | CONSTRUCT CONCRETE SIDEWALK PER DETAIL #1, SHT C6.02–SEE FINISH PLAN PER ARCHITECTS PLANS & DETAILS |
| 2 | CONSTRUCT AC PAVEMENT PER PER DETAIL #2, SHT C6.02 |
| 3 | CONSTRUCT 24" CONCRETE VALLEY GUTTER PER DETAIL #3, SHT C6.02 |
| 4 | CONSTRUCT "A" TYPE CURB–0" FACE PER STD. DWG. #219 |
| 5 | CONSTRUCT "A" TYPE CURB–6" FACE PER STD. DWG. #219 |
| 6 | ROUGH GRADE PAD ELEV. IS ASSUMED TO BE 12" BELOW FINISH FLOOR ELEV. VERIFY w/ STRUCTURAL PLANS PRIOR TO ANY CONSTRUCTION. |
| 7 | PLANTER AREA |
| 8 | CONSTRUCT "L" TYPE CURB PER STD. DWG. #216 |
| 9 | NOT USED |
| 10 | CONSTRUCT RETAINING WALL PER DETAIL #10 SHT C6.01 RETAINING WALL CALCS & DETAILS BY OTHERS |
| 11 | CONSTRUCT HANDICAP PARKING STALL PER DETAIL #11, SHT C6.01 |
| 12 | DRAIN–THRU PER DETAIL #12 SHT C6.01 |
| 13 | NDOT TYPE "3" CURB PER NDOT STD DWG #R–5.1.1 – 6" RISE |
| 14 | NOT USED |
| 15 | PROVIDE HANDRAILS PER ARCHITECTURAL DETAILS |
| 16 | 2% GRADE ALLOWED PER SOILS REPORT–SECTION: GRADING & DRAINAGE |
| 17 | CONSTRUCT CONCRETE PAVEMENT PER DETAIL #17, SHT C6.01 |
| 18 | CAST IN PLACE WALL–SEE ARCHITECTURAL DETAILS |

| | |
|---|---|
| A | PROTECT EX LOOP DETECTORS IN PLACE |
| B | PROTECT EX AREA LIGHT & CONCRETE BASE IN PLACE |
| C | PROTECT EX ELECTRICAL TRANSFORMER IN PLACE |

10 0 5 10 20
1 inch = 10 ft.

DATE: 3/2018
DRAFTER: JC
DESIGNER: SCD
CHECKED: SCD
PROJECT NO. 701326.00

PROFESSIONAL ENGINEER–STATE OF NEVADA
SAM C. DUNNAM
EXP. 12-31-18
CIVIL
No. 7889

C6.02
SHEET 20 OF 20

CLV # L18-00533