## 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 THE (COMPANY,

REPORT #, DATE ) 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.

AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE AT A MINIMUM 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, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.

21. 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 EDITION.

22. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 06/04/2018

## 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 COUNTY AREA, NEVADA, 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 WITH THE APPROVAL OF THE CITY ENGINEER.

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT 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 INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (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 THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS 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 C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.
REVISED 04/15/10

## CLV GENERAL NOTES FOR HYDRANTS AND ACCESS

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 105.7.11

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 1412.

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

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; 507.5.7

9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC 507.5.7.1

10. PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC 507; 507.1

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]

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.

| GRADING QUANTITIES | PUBLIC |
|---|---|
| COMMERCIAL DRIVEWAY PER CCAUSD #227.S1 | 440 SF |
| CONCRETE SIDEWALK PER CCAUSD #234 | 210 SF |
| L-TYPE CURB PER CCAUSD #219 | 28 LF |
| **WATER QUANTITIES** | |
| 1 1/2" WM, SERVICE SADDLE & CORP. STOP PER PLATE 4 | 1 EA |
| 1 1/2" RPPA PER PLATE 8 | 1 EA |
| 1 1/2" COPPER LINE | 15 LF |
| 6" RPDA PER UDACS PLATE 56 | 1 EA |
| 6" PVC WATER LINE | 42 LF |
| FIRE HYDRANT | 1 EA |
| INSTALL 8"X6" TAPPING SLEEVE W/ 6" TAPPING VALVE | 2 EA |

## 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 "SUGGESTED 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. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. 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 STOP 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 REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC). 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 # 828-3442) 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. THE 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.
REVISED JUNE 4, 2018

## 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.

REVISED 04/15/10

## SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION 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

## BASIS OF BEARINGS

NORTH 28°02'08" EAST, BEING THE BEARING OF THE CENTERLINE OF LAS VEGAS BOULEVARD BETWEEN ST. LOUIS AVENUE AND OAKEY BOULEVARD LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 193 OF SURVEYS, PAGE 94, OFFICIAL RECORD'S CLARK COUNTY, NEVADA.

## DEVIATIONS FROM STANDARDS - NONE

## GENERAL UTILITY 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; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; AND THE UNIFORM BUILDING CODE.
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. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOW LINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY.

## LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD – PROJECT #
(REVISED 08/01/2017)

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 OF THE 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 AN ACCEPTABLE PASSING HEALTH 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 APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.

13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.

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 OWNERS 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 PLAIN FINISH 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 SAFE DRINKING WATER 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.

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

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

AVOID HITTING OVERHEAD POWERLINES. IT'S COSTLY.
Call Before You OverHead
1-702-227-2929

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 136290 FIRST APPROVED DATE: 6-5-19
LVVWD APPROVED FIRE FLOW: 1,500 GPM / ONSITE: 0 GPM
FIRE SPRINKLER DEMAND: 600 GPM

CLV FIRE AND RESCUE — DATE 5-30-19

SOUTHWEST GAS CORPORATION — DATE 6.3.19

REV: | DATE: | BY: | REVISION:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY ERRORS TO THE ENGINEER PRIOR TO COMMENCING WORK. ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE AND SHALL REMAIN ENGINEER'S SOLE PROPERTY. UNTIL SIGNED BY THE PREVAILING ENTITIES THESE PLANS ARE TO BE CONSIDERED PRELIMINARY AND USED AT THE THE OWNER/DEVELOPER/CONTRACTORS RISK.

*BALOVA ENGINEERING*
*7495 WEST AZURE DR. # 140*
*LAS VEGAS, NV 89130*
*TEL 702-682-1706*

# IHOP - LAS VEGAS BOULEVARD GENERAL NOTES

1809 SOUTH LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

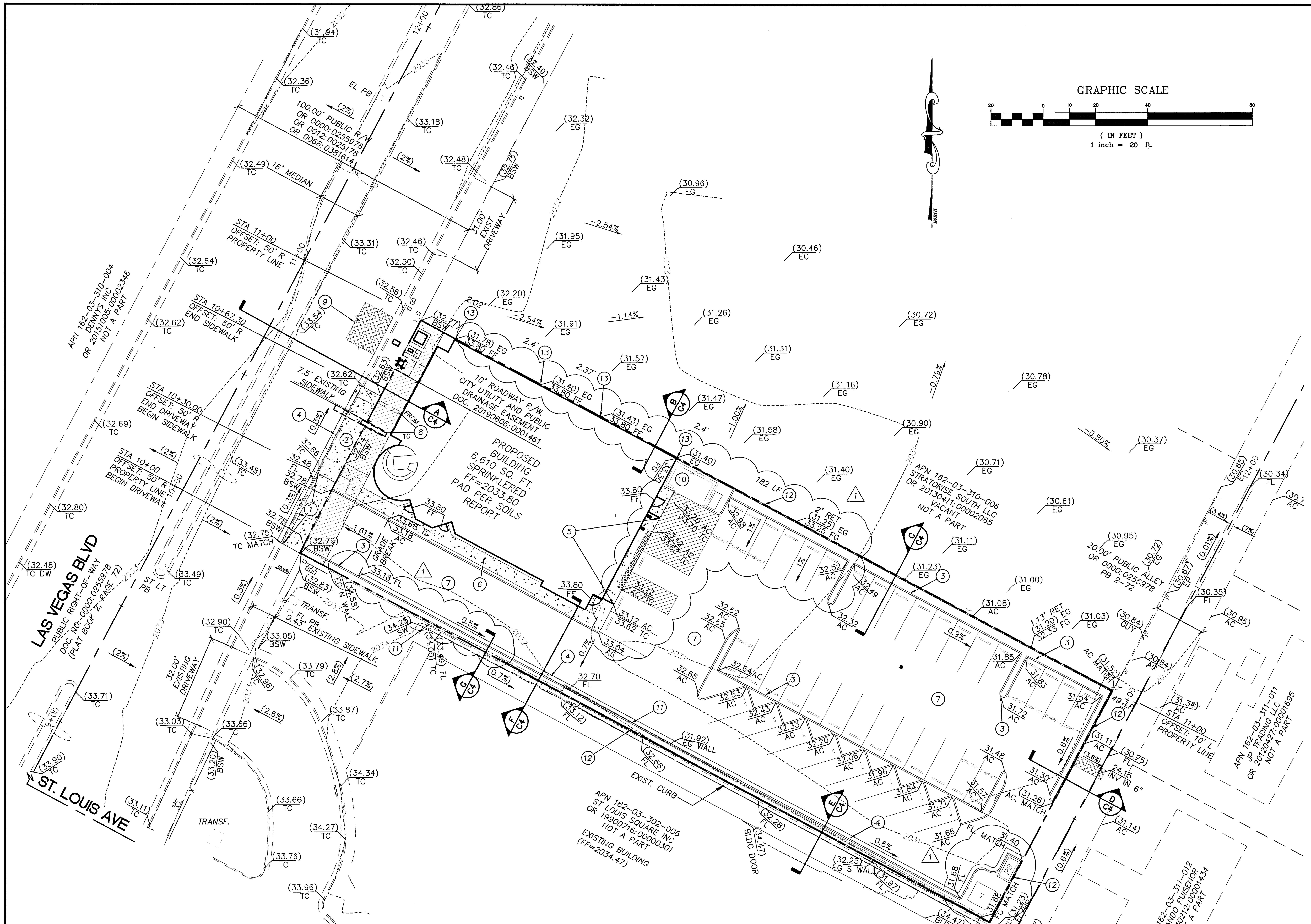
DESIGNED BY : PB
CHECKED BY : PB
DATE : 05/01/19
JOB # : 18-IHOP
APN : 162-03-310-007
SECT 3 T 21S R 61E
SCALE : HORIZ 1" = N/A

PROFESSIONAL ENGINEER STATE OF NEVADA — PETYA BALOVA — Exp. 12-31-20 — CIVIL — No. 16480 — 05-01-19

SHEET #
C2
2 OF 6

L18-02470
107V7774

PROJ #136290A QS 162-03-SW




## BASIS OF BEARING

NORTH 28°02'08" EAST, BEING THE BEARING OF THE CENTERLINE OF LAS VEGAS BOULEVARD BETWEEN ST. LOUIS AVENUE AND OAKEY BOULEVARD LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 193 OF SURVEYS, PAGE 94, OFFICIAL RECORD'S CLARK COUNTY, NEVADA.

## BENCHMARK

CITY OF LAS VEGAS BENCHMARK "OAKEY 5", BEING A RIVET AND PLATE IN THE TOP OF CURB AT SE CORNER OF OAKEY BLVD & LAS VEGAS BLVD. ALSO STAMPED 8LV113W6

ELEVATION: 2030.6 (US SURVEY FEET)
618.927 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

## STORM WATER MANAGEMENT NOTES

*Standard Note No. 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 CLV 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.*

*Standard Note No. 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 the Las Vegas Valley Construction Site BMP Guidance Manual.*

*Standard Note No. 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.*

*Standard Note No. 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.*

*Standard Note No. 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.*

## FLOOD ZONE INFORMATION

THIS PROPERTY IS LOCATED IN A FLOOD ZONE DESIGNATED "ZONE X", DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FLOOD INSURANCE RATE MAP NO. 32003C2170F, CLARK COUNTY, NEVADA AND INCORPORATED AREAS, DATED NOVEMBER 16, 2011

## CONSTRUCTION NOTES:

1. REMOVE EXISTING C&G, AND A PORTION OF THE SIDEWALK & INSTALL A COMMERCIAL DRIVEWAY PER CCAUSD 224
2. INSTALL CONCRETE SIDEWALK PER CCAUSD #234
3. INSTALL A-TYPE CURB PER CCAUSD #216
4. INSTALL L-TYPE CURB PER CCAUSD #219
5. INSTALL CONCRETE RAMP PER DETAIL ON SHEET C4
6. INSTALL CONCRETE SIDEWALK WITH TURNDOWN CURB PER DETAIL ON SHEET C4
7. INSTALL 3" AC/8.5" TYPE II/COMPACTED SUBGRADE AS SPECIFIED BY SOILS REPORT
8. ADJUST MARQUEE SIGN LOCATION PER ARCHITECTURAL SPECIFICATIONS
9. SAWCUT LINE
10. PROPOSED TRASH ENCLOSURE, REFER TO ARCHITECTURAL PLANS FOR DETAILS
11. REMOVE EXISTING CMU BLOCK WALL
12. CONSTRUCT 2-FOOT MAX RETAINING WALL WITH 6-FOOT HIGH CMU BLOCK WALL PER SNBO DWG. B-100-2 WITH ECCENTRIC FOOTING
13. EXPOSED STEM WALL AS NOTED

## SOILS REPORT

GEOTECHNICAL INVESTIGATION REPORT PREPARED BY DUPONT ENGINEERING, INC., DEI NO. 18-0476, DATED OCTOBER 22, 2018

## GRADING NOTE:

CURB FLOW LINES LESS THAN 0.6% GRADE SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AT NO COST TO THE CITY.

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

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

AVOID HITTING OVERHEAD POWERLINES. IT'S COSTLY.
Call Before You OverHead
1-702-227-2929

| REV: | DATE: | BY: | REVISION: |
|---|---|---|---|
| 1 | 07/08/19 | PB | REMOVED PORTE COCHERE, RELOCATED TRASH ENCLOSURE, ADJUSTED PARKING LOT |


BALOVA ENGINEERING
7495 WEST AZURE DR. # 140
LAS VEGAS, NV 89130
TEL 702-682-1706



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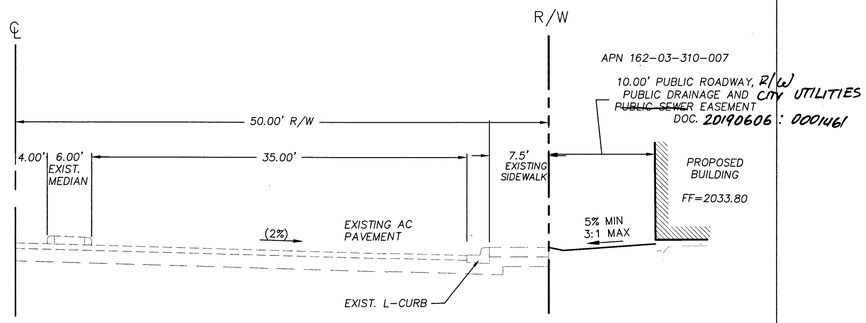
# IHOP - LAS VEGAS BOULEVARD GRADING PLAN

1809 S. LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

| | |
|---|---|
| DESIGNED BY: | PB |
| CHECKED BY: | PB |
| DATE: | 07/08/19 |
| JOB #: | 18-IHOP |
| APN: | 162-03-310-007 |
| SECT 3 | T21S R 61E |
| SCALE: | HORIZ 1" = 20' |

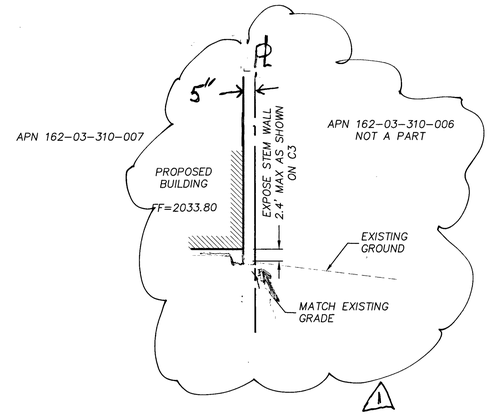
PROFESSIONAL ENGINEER STATE OF NEVADA
PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480

SHEET #
C3
3 OF 6



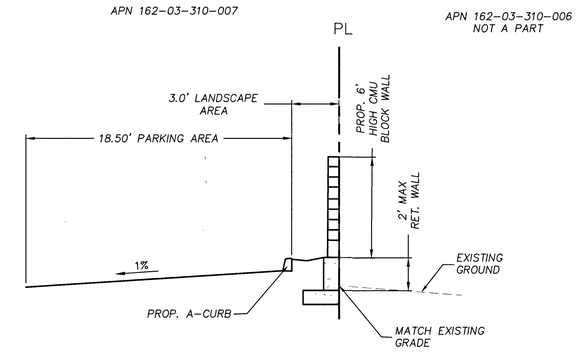

A

## LAS VEGAS BLVD
NOT TO SCALE



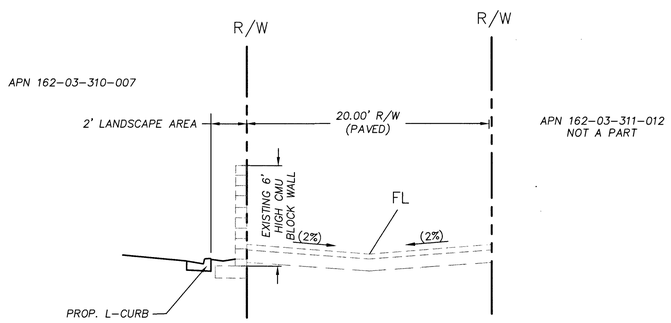

B

## NORTH PROPERTY LINE
NOT TO SCALE



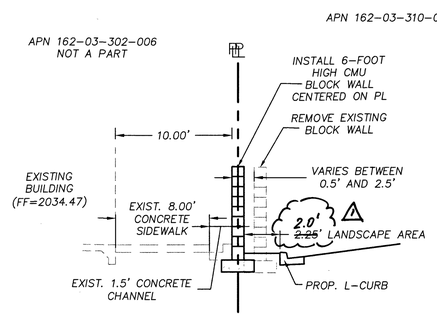

C

## NORTH PROPERTY LINE
NOT TO SCALE



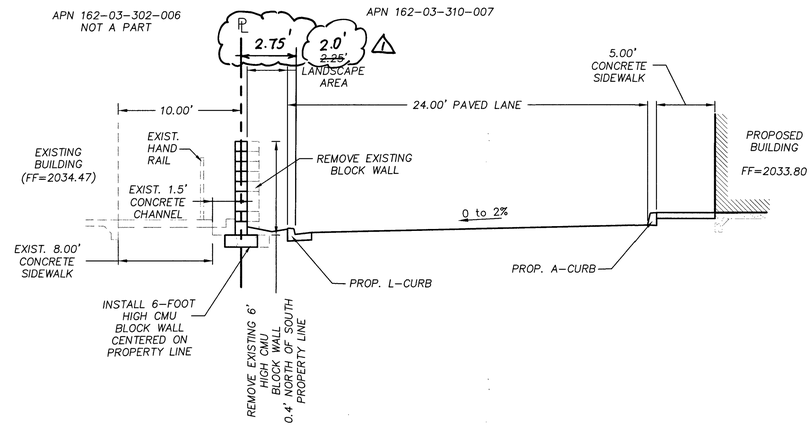

D

## ALLEY
NOT TO SCALE



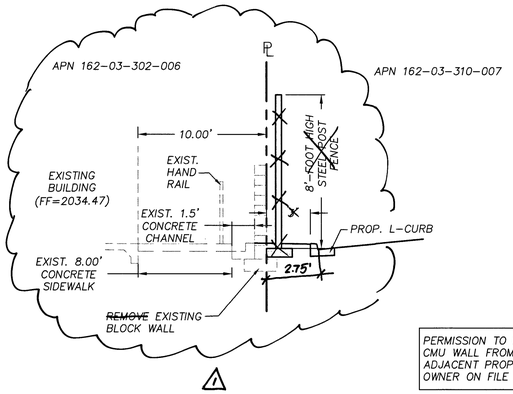

E

## SOUTH PROPERTY LINE
NOT TO SCALE




F

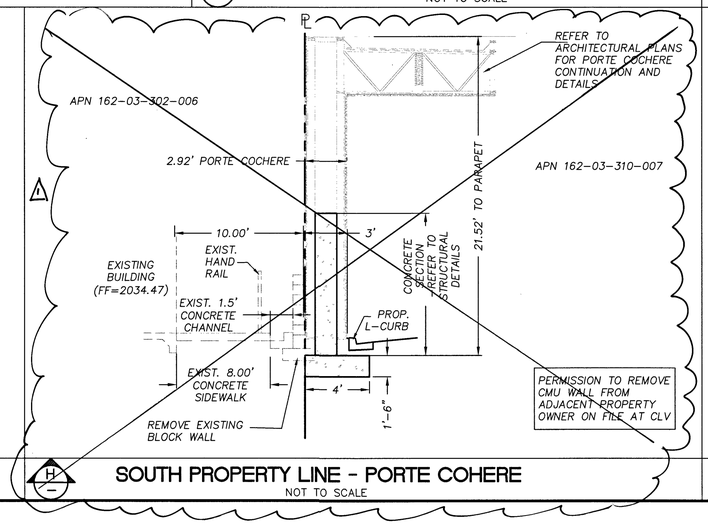
## SOUTH PROPERTY LINE
NOT TO SCALE




PERMISSION TO REMOVE CMU WALL FROM ADJACENT PROPERTY OWNER ON FILE AT CLV

G

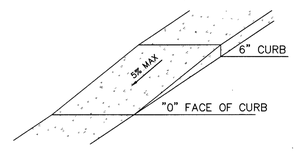
## SOUTH PROPERTY LINE
NOT TO SCALE



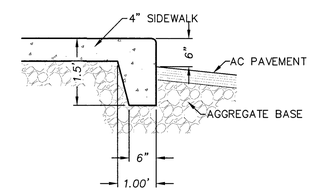

PERMISSION TO REMOVE CMU WALL FROM ADJACENT PROPERTY OWNER ON FILE AT CLV

H

## SOUTH PROPERTY LINE - PORTE COHERE
NOT TO SCALE




## SIDEWALK RAMP DETAIL
NOT TO SCALE




## SIDEWALK WITH TURNDOWN LIP
NOT TO SCALE

| REV: | DATE: | BY: | REVISION: |
|---|---|---|---|
| 1 | 07/08/19 | PB | REMOVED PORTE COCHERE |


BALOVA ENGINEERING
7495 WEST AZURE DR. # 140
LAS VEGAS, NV 89130
TEL 702-682-1706



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# IHOP - LAS VEGAS BOULEVARD
## TYPICAL DETAILS AND CROSS SECTIONS
1809 S. LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

DESIGNED BY : PB
CHECKED BY : PB
DATE : 05/01/19
JOB # : 18-IHOP
APN : 162-03-310-007
SECT 3 T 21S R 61E
SCALE : HORIZ 1" = 20'

PROFESSIONAL ENGINEER - STATE OF NEVADA
PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480
05-01-19

SHEET #
C4
4 OF 6

L18-02470
107V7774

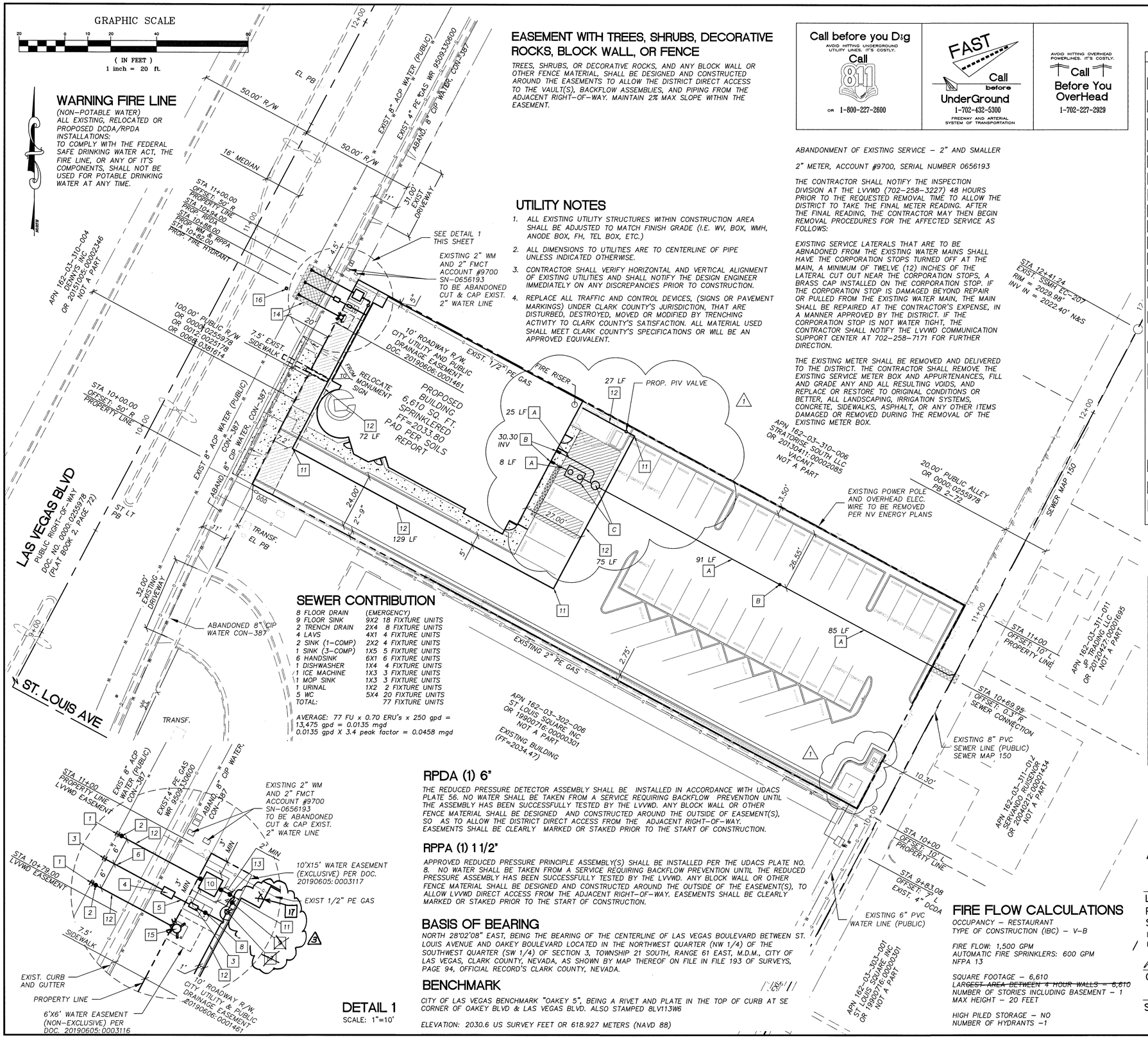
GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

## WARNING FIRE LINE

(NON–POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.




## EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENTS TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT–OF–WAY. MAINTAIN 2% MAX SLOPE WITHIN THE EASEMENT.

## UTILITY NOTES

1. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANODE BOX, FH, TEL BOX, ETC.)
2. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. REPLACE ALL TRAFFIC AND CONTROL DEVICES, (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

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

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

AVOID HITTING OVERHEAD POWERLINES. IT'S COSTLY.
Call Before You OverHead
1-702-227-2929

ABANDONMENT OF EXISTING SERVICE – 2" AND SMALLER

2" METER, ACCOUNT #9700, SERIAL NUMBER 0656193

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702–258–3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING, THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS THAT ARE TO BE ABNADONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY THE LVVWD COMMUNICATION SUPPORT CENTER AT 702–258–7171 FOR FURTHER DIRECTION.

THE EXISTING METER SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING METER BOX.

## UTILITY NOTES AND QUANTITIES

THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES

| | | UNITS | PUBLIC | PRIVATE |
|---|---|---|---|---|
| | WATER | | | |
| 1 | INSTALL 8"X6" TAPPING SLEEVE W/ 6" TAPPING VALVE PER UDACS 2.24.01 (A) PLATES 30, 34 AND 39 | EA | 2 | — |
| 2 | INSTALL 6" GATE VALVE PER UDACS PLATE 30 AND 39 | EA | 2 | — |
| 3 | INSTALL 1 1/2" WM, SERVICE SADDLE & CORP. STOP PER UDACS PLATE 4 | EA | 1 | — |
| 4 | INSTALL 1 1/2" RPPA PER PLATE 8 | EA | 1 | — |
| 5 | INSTALL 2" PVC WATER LATERAL | LF | — | 5 |
| 6 | INSTALL 1 1/2" COPPER LINE PER UDACS PLATE 4 | LF | 15 | — |
| 7 | INSTALL 1 1/2" BRASS PIPE & FITTINGS | | | |
| 8 | INSTALL CURB STOP PER DETAIL THIS SHEET | EA | 1 | — |
| 9 | ~~INSTALL 6" CHECK VALVE~~ 3 | EA | — | 1 |
| 10 | INSTALL 6" RPDA PER UDACS PLATE 56 | EA | 1 | — |
| 11 | INSTALL 6" 90° BEND PER UDACS PLATE 31 1 | EA | — | 4 |
| 12 | INSTALL 6" C–900 PRESSURE CLASS 305 WATER LINE | LF | 42 | 303 |
| 13 | INSTALL DOWNSTREAM 6" GATE VALVE WITH VALVE LOCK PER UDACS PLATE 30 AND 39 | EA | 1 | — |
| 14 | SAWCUT, TRENCHING AND BACKFILL PER UDACS PLATE 17, CCAUSD 503.1, PAVEMENT RESTORATION PER CCAUSD 500.5 | | | |
| 15 | INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATE 40, 30 AND 39 | EA | 1 | — |
| 16 | INSTALL BLUE REFLECTIVE MARKER | EA | 1 | — |
| 17 | FIRE DEPARTMENT CONNECTION | | | |
| | SEWER | | | |
| A | INSTALL 6" PVC SEWER LATERAL (PRIVATE) PER SD–18, SD–22 AND SD–25 | LF | – | 214 |
| B | INSTALL 6" CLEANOUT PER SD–26 WITH TRAFFIC RATED LID | EA | – | 3 |
| C | INSTALL 1500 GAL GREASE INTERCEPTOR AND A SAMPLE BOX PER BUILDING PERMIT | EA | – | 1 |

## SEWER CONTRIBUTION

| | | |
|---|---|---|
| 8 FLOOR DRAIN | (EMERGENCY) | |
| 9 FLOOR SINK | 9X2 | 18 FIXTURE UNITS |
| 2 TRENCH DRAIN | 2X4 | 8 FIXTURE UNITS |
| 4 LAVS | 4X1 | 4 FIXTURE UNITS |
| 2 SINK (1–COMP) | 2X2 | 4 FIXTURE UNITS |
| 1 SINK (3–COMP) | 1X5 | 5 FIXTURE UNITS |
| 6 HANDSINK | 6X1 | 6 FIXTURE UNITS |
| 1 DISHWASHER | 1X4 | 4 FIXTURE UNITS |
| 1 ICE MACHINE | 1X3 | 3 FIXTURE UNITS |
| 1 MOP SINK | 1X3 | 3 FIXTURE UNITS |
| 1 URINAL | 1X2 | 2 FIXTURE UNITS |
| 5 WC | 5X4 | 20 FIXTURE UNITS |
| TOTAL: | | 77 FIXTURE UNITS |

AVERAGE: 77 FU x 0.70 ERU's x 250 gpd =
13,475 gpd = 0.0135 mgd
0.0135 gpd X 3.4 peak factor = 0.0458 mgd




## DETAIL 1

SCALE: 1"=10'

## RPDA (1) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 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 OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

## RPPA (1) 1 1/2"

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 REDUCED PRESSURE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT–OF–WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

## BASIS OF BEARING

NORTH 28°02'08" EAST, BEING THE BEARING OF THE CENTERLINE OF LAS VEGAS BOULEVARD BETWEEN ST. LOUIS AVENUE AND OAKEY BOULEVARD LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 193 OF SURVEYS, PAGE 94, OFFICIAL RECORD'S CLARK COUNTY, NEVADA.

## BENCHMARK

CITY OF LAS VEGAS BENCHMARK "OAKEY 5", BEING A RIVET AND PLATE IN THE TOP OF CURB AT SE CORNER OF OAKEY BLVD & LAS VEGAS BLVD. ALSO STAMPED 8LV113W6

ELEVATION: 2030.6 US SURVEY FEET OR 618.927 METERS (NAVD 88)

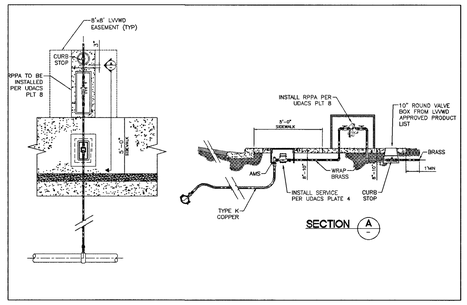
## FIRE FLOW CALCULATIONS

OCCUPANCY – RESTAURANT
TYPE OF CONSTRUCTION (IBC) – V–B

FIRE FLOW: 1,500 GPM
AUTOMATIC FIRE SPRINKLERS: 600 GPM
NFPA 13

SQUARE FOOTAGE – 6,610
~~LARGEST AREA BETWEEN 4 HOUR WALLS – 6,610~~
NUMBER OF STORIES INCLUDING BASEMENT – 1
MAX HEIGHT – 20 FEET

HIGH PILED STORAGE – NO
NUMBER OF HYDRANTS –1




## DETAIL 2

NOT TO SCALE

## APPROVED FOR CONSTRUCTION:

7/29/19
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 136290 FIRST APPROVED DATE: 6/5/2019
SHEETS: C1, C2, C5
LVVWD APPROVED FIRE FLOW: 1,500 GPM ONSITE: 0 GPM 9-10-19
FIRE SPRINKLERS: 600 GPM
7-24-19
CITY OF LAS VEGAS FIRE AND RESCUE (C1, C2, C5) DATE
7/25/19
SOUTHWEST GAS CORPORATION DATE

| REV: | DATE: | BY: | REVISION: |
|---|---|---|---|
| 3 | 09/16/19 | PB | CHANGED FDC LOCATION |
| 2 | | | |
| 1 | 07/08/19 | PB | ADDED PIV VALVE, ADJUSTED ONSITE WATER LINE LOCATION |

BALOVA ENGINEERING
7495 WEST AZURE DR. # 140
LAS VEGAS, NV 89130
TEL 702-682-1706

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY ERRORS TO THE ENGINEER PRIOR TO COMMENCING WORK. ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE AND SHALL REMAIN ENGINEER'S SOLE PROPERTY UNTIL SIGNED BY THE PREVAILING ENTITIES. THESE PLANS ARE TO BE CONSIDERED PRELIMINARY AND USED AT THE TIME OWNER/DEVELOPER/CONTRACTORS RISK.

# IHOP - LAS VEGAS BOULEVARD
# UTILITY PLAN

1809 S. LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

DESIGNED BY : PB
CHECKED BY : PB
DATE: 07/08/19
JOB #: 18–IHOP
APN : 162–03–310–007
SECT 3 T 21S R 61E
SCALE : HORIZ 1" = 20'

PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480
01-17-19

SHEET #
C5
5 OF 6

PROJ#:136290A QS:162-03-SW

## BASIS OF BEARING

NORTH 28°02'08" EAST, BEING THE BEARING OF THE CENTERLINE OF LAS VEGAS BOULEVARD BETWEEN ST. LOUIS AVENUE AND OAKEY BOULEVARD LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 193 OF SURVEYS, PAGE 94, OFFICIAL RECORD'S CLARK COUNTY, NEVADA.

| Line Table | | |
|---|---|---|
| Line # | Length | Direction |
| L1 | 37.36 | N28°02'08"E |
| L2 | 300.00 | S61°57'52"E |
| L3 | 100.00 | S28°02'08"W |
| L4 | 299.21 | S61°57'52"E |
| L5 | 285.45 | N61°57'52"W |
| L6 | 115.90 | N61°57'52"W |
| L7 | 9.39 | S28°02'08"W |
| L8 | 51.50 | N61°57'52"W |
| L9 | 4.59 | N61°57'52"W |
| L10 | 17.00 | N28°02'08"E |
| L11 | 73.00 | S61°57'52"E |
| L12 | 17.00 | N28°02'08"E |
| L13 | 33.01 | N61°57'52"W |
| L14 | 42.41 | S28°02'08"W |
| L15 | 17.85 | N28°02'08"E |
| L16 | 9.35 | S28°02'08"W |
| L17 | 12.64 | S61°57'52"E |
| L18 | 11.31 | S61°57'52"E |
| L19 | 8.00 | S73°02'08"W |
| L20 | 8.00 | N16°57'52"W |

| Line Table | | |
|---|---|---|
| Line # | Length | Direction |
| L21 | 17.85 | N28°02'08"E |
| L22 | 22.36 | S28°02'08"W |
| L23 | 12.17 | S61°57'52"E |
| L24 | 16.58 | S73°02'08"W |

| Curve Table | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C1 | 3.53 | 1.50 | 135°00'00" |
| C2 | 6.62 | 10.00 | 37°55'50" |
| C3 | 3.14 | 1.00 | 180°00'00" |
| C4 | 2.36 | 1.50 | 90°00'00" |
| C5 | 4.32 | 5.50 | 45°00'00" |
| C6 | 6.62 | 10.00 | 37°55'50" |
| C7 | 3.14 | 2.00 | 90°00'00" |

## NOTES:

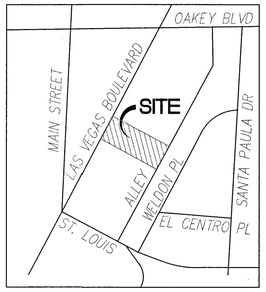
1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CITY OF LAS VEGAS SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

2. NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

## TRAFFIC QUANTITIES

THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES

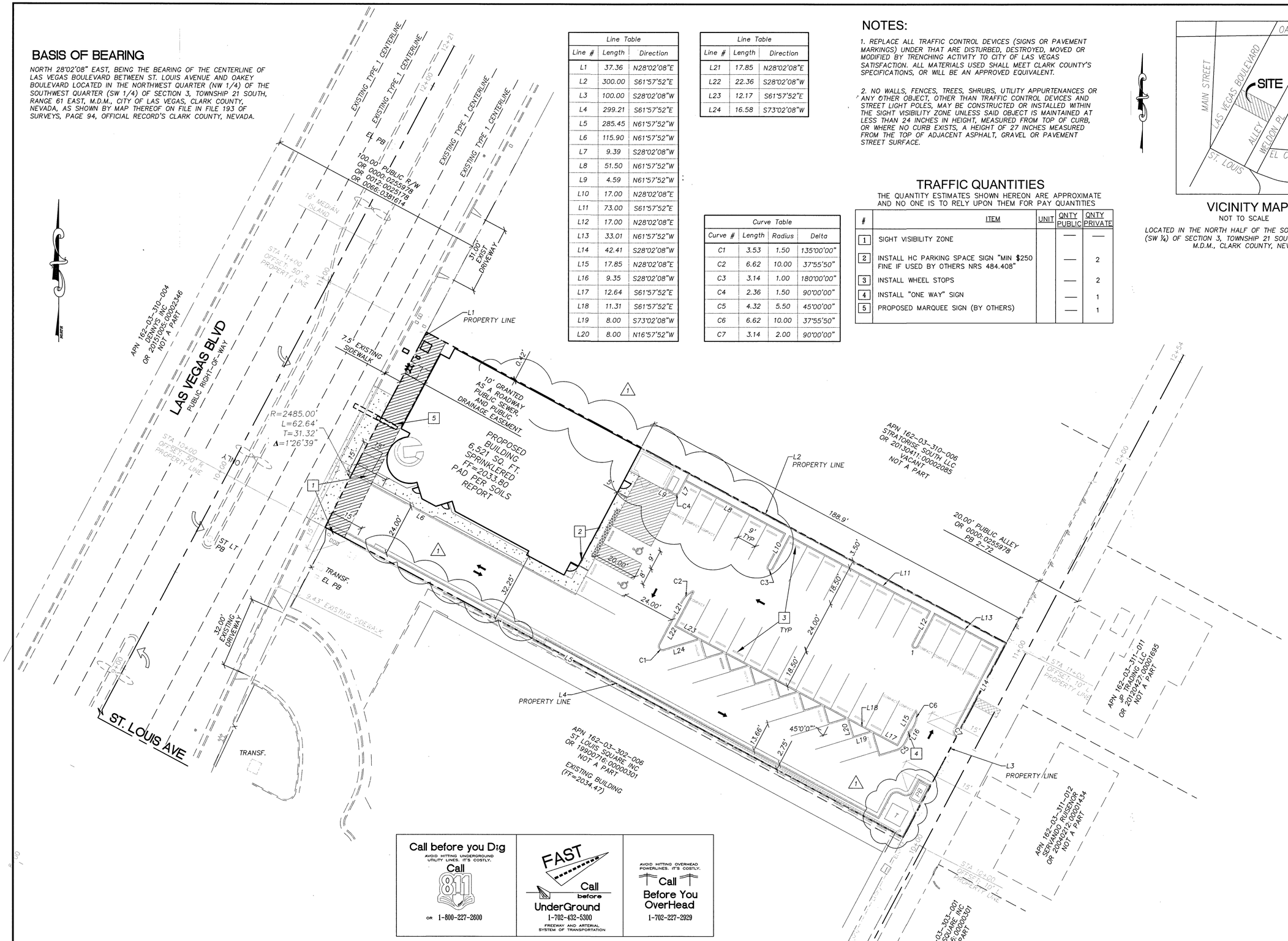
| # | ITEM | UNIT | QNTY PUBLIC | QNTY PRIVATE |
|---|---|---|---|---|
| 1 | SIGHT VISIBILITY ZONE | | — | — |
| 2 | INSTALL HC PARKING SPACE SIGN "MIN $250 FINE IF USED BY OTHERS NRS 484.408" | | — | 2 |
| 3 | INSTALL WHEEL STOPS | | — | 2 |
| 4 | INSTALL "ONE WAY" SIGN | | — | 1 |
| 5 | PROPOSED MARQUEE SIGN (BY OTHERS) | | — | 1 |




## VICINITY MAP

NOT TO SCALE

LOCATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER (SW ¼) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST M.D.M., CLARK COUNTY, NEVADA.




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

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

AVOID HITTING OVERHEAD POWERLINES. IT'S COSTLY.
Call Before You OverHead
1-702-227-2929

| REV: | DATE: | BY: | REVISION: |
|---|---|---|---|
| 1 | 07/08/19 | PB | REMOVED PORTE COCHERE, MOVED TRASH ENCLOSURE |
| 2 | | | ADJUSTED PARKING AREA |


BALOVA ENGINEERING
7495 WEST AZURE DR. # 140
LAS VEGAS, NV 89130
TEL 702-682-1706



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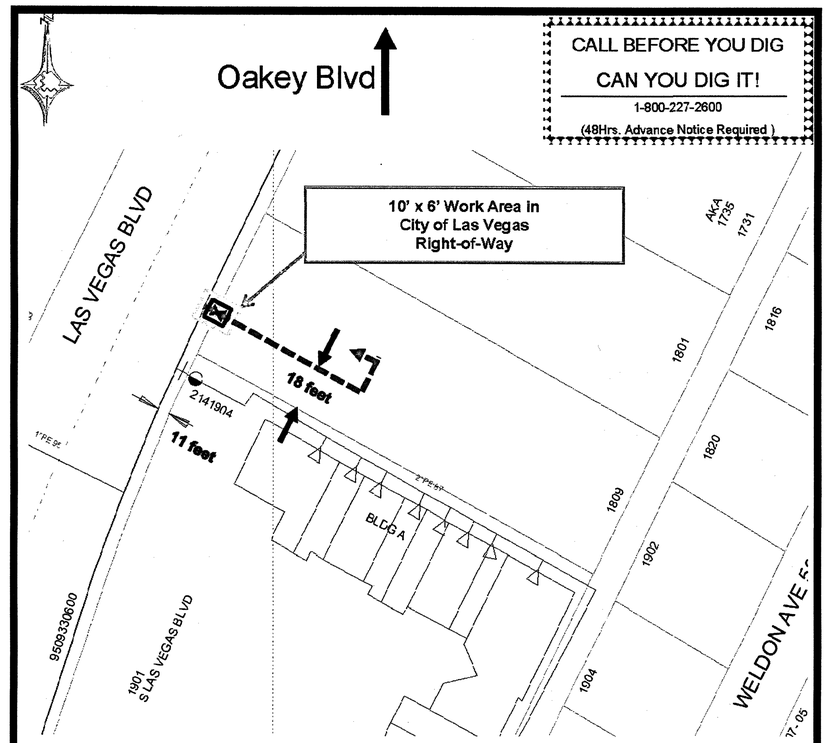
# IHOP - LAS VEGAS BOULEVARD
## HORIZONTAL CONTROL PLAN
AND TRAFFIC CONTROL PLAN

1809 S. LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

DESIGNED BY : PB
CHECKED BY : PB
DATE: 07/08/19
JOB #: 18-IHOP
APN : 162-03-310-007
SECT 3 T21SR 61E
SCALE : HORIZ 1" = 20'

PROFESSIONAL ENGINEER - STATE OF NEVADA
PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480

SHEET #
C6
6 OF 6




**LAS VEGAS BLVD IS PAVED.**
**BACKFILL & PAVEMENT RESTORATION**
**TO COMPLY WITH RTC STANDARD(S)**
**503 & 500.5**

****ATTENTION: DO NOT SCALE THIS DRAWING.**
**CONFIRM ALL LOCATIONS BEFORE**
**CONSTRUCTION WITH SOUTHWEST GAS****

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOW ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

SEE COVER OF CIVIL PLAN

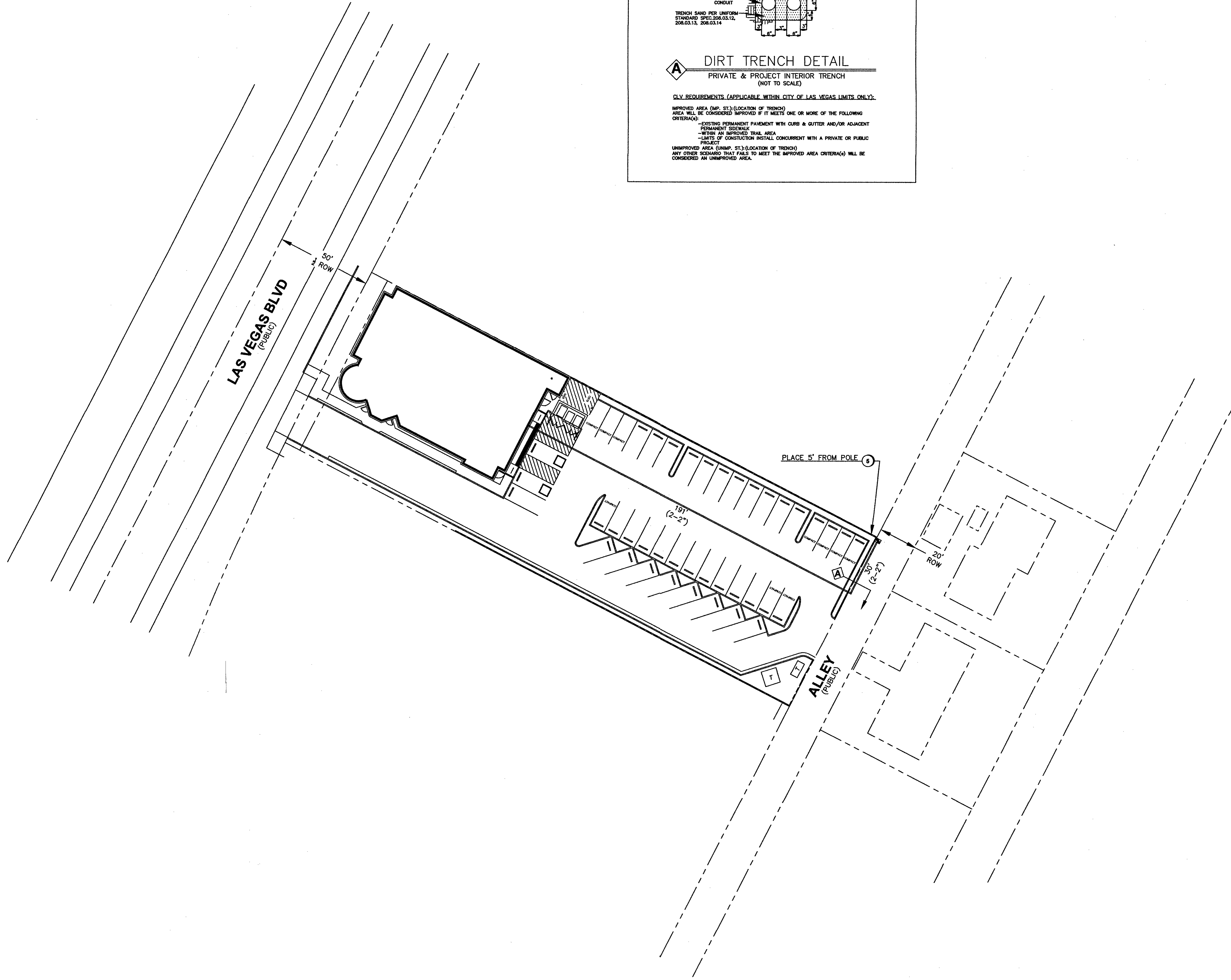
APPROVAL DATE

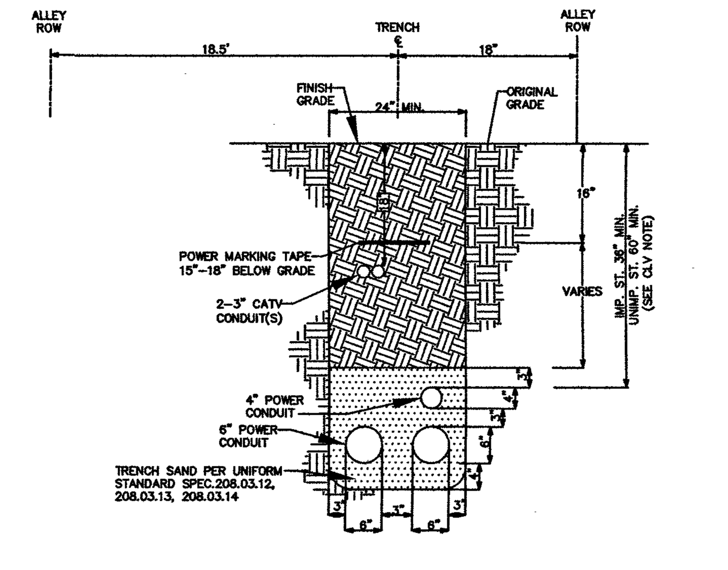
| | |
|---|---|
| WR: **3886443** | SOUTHWEST GAS CORPORATION<br>garth.breton@swgas.com<br>(480) 273-1316 |
| APN:: **162-03-310-007** | |
| EST START DATE: | |
| PURPOSE OF WORK: **Approximately 11' disturbance in City of Las Vegas Right-of-Way.** NPL to install 200 feet 2 inch PE and 2 inch riser with bypass, 5 foot spread, **Load 1,153 CFH** | LOCATION: **1809 S Las Vegas Blvd**<br>Las Vegas Blvd & Oakey Blvd |

L18-02578
10715103

NOT TO SCALE

SHEET 7




## A DIRT TRENCH DETAIL

PRIVATE & PROJECT INTERIOR TRENCH
(NOT TO SCALE)

CLV REQUIREMENTS (APPLICABLE WITHIN CITY OF LAS VEGAS LIMITS ONLY):

IMPROVED AREA (IMP. ST.):(LOCATION OF TRENCH)
AREA WILL BE CONSIDERED IMPROVED IF IT MEETS ONE OR MORE OF THE FOLLOWING CRITERIA(s):
- EXISTING PERMANENT PAVEMENT WITH CURB & GUTTER AND/OR ADJACENT PERMANENT SIDEWALK
- WITHIN AN IMPROVED TRAIL AREA
- LIMITS OF CONSTUCTION INSTALL CONCURRENT WITH A PRIVATE OR PUBLIC PROJECT

UNIMPROVED AREA (UNIMP. ST.):(LOCATION OF TRENCH)
ANY OTHER SCENARIO THAT FAILS TO MEET THE IMPROVED AREA CRITERIA(s) WILL BE CONSIDERED AN UNIMPROVED AREA.

## LEGEND

| No. | Description |
|---|---|
| 1 | INSTALL B-36 PULL BOX (24"X36"X24") |
| 2 | EXISTING B-36 PULL BOX (24"X36"X24") |
| 3 | INSTALL B-50 PULL BOX (13"X24"X24") |
| 4 | EXISTING B-50 PULL BOX (13"X24"X24") |
| 5 | INSTALL B-100 PULL BOX (24"X36"X24") |
| 6 | EXISTING B-100 PULL BOX (24"X36"X24") |
| 7 | INSTALL T-200 CATV VAULT (30"X48"X36") |
| 8 | EXISTING T-200 CATV VAULT (30"X48"X36") |
| 9 | INSTALL T-400 CATV VAULT (36"X60"X36") |
| 10 | EXISTING T-400 CATV VAULT (36"X60"X36") |
| 11 | INSTALL T-600 CATV VAULT (48"X72"X36") |
| 12 | EXISTING T-600 CATV VAULT (48"X72"X36") |
| 13 | INSTALL NEW CATV PEDESTAL |
| 14 | EXISTING CATV PEDESTAL |
| 15 | R&R S/W SLAB(S) |
| 16 | POTHOLE |
| 17 | —C— SIDEWALK/DIRT TRENCH INSTALL WITH FIBER/COAX PULL |
| 18 | —C— ASPHALT MITIGATION/STREET TRENCH WITH FIBER/COAX PULL |
| 19 | —B— PROPOSED BORE WITH FIBER/COAX PULL |
| 20 | —X— EXISTING CATV CONDUIT(S) |
| 21 | —OHC— PROPOSED OVERHEAD FIBER OPTIC CABLE OR COAX INSTALL |
| 22 | —XOHC— EXISTING OVERHEAD FIBER OPTIC CABLE OR COAX |
| 23 | U.G. FIBER/COAX PULL THROUGH EXISTING CONDUIT |
| 24 | RIGHT OF WAY LINE |
| 25 | LOT/PROPERTY LINE |
| 26 | EDGE OF PAVEMENT/ SIDEWALK/CONCRETE |
| 27 | P EXISTING NVE PULL BOX |
| 28 | T EXISTING TELCO PULL BOX |
| 29 | TM EXISTING COMMUNICATION MANHOLE |
| 30 | T EXISTING TELCO POLE |
| 31 | EXISTING NVE POLE |
| 32 | NVE EXISTING NVE TRANSMISSION POLE |
| 33 | EXISTING JOINT POLE |
| 34 | EXISTING JOINT POLE WITH TRANSFORMER |
| 35 | POLE ANCHOR |
| 36 | EXISTING NVE TRANSFORMER TRANSFORMER PAD |
| 37 | TS SNWA TEST STATION |
| 38 | COX POWER SUPPLY (49"X24"X52") |
| 39 | CB CABINET (RHINO,ODN,OLM) |
| 40 | RISER POLE/QUADRANT DETAIL RISER OWNERSHIP NOTED |
| 41 | RAILROAD |
| 42 | MH EXISTING MANHOLE (SS),(SD)...ECT |
| 43 | 1in CONDUIT LATERAL |
| 44 | STORMWATER ASSETS |
| 45 | |

## DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

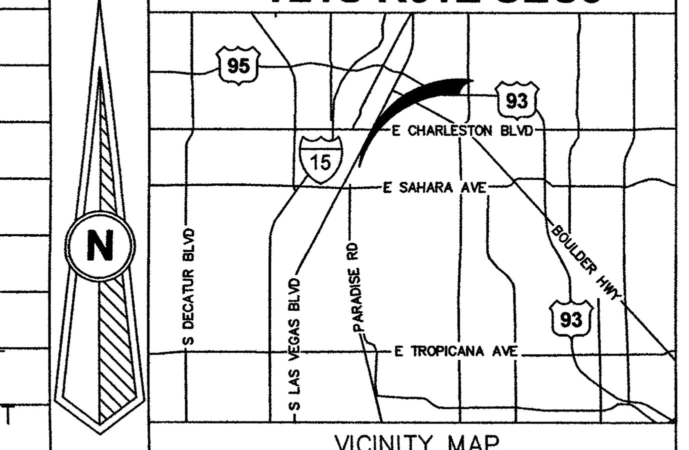
AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND
CALL BEFORE YOU UNDERGROUND
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED SYSTEM

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
CALL 811
BEFORE YOU DIG
OR 1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID OVERHEAD POWER LINE CONTACT
CALL BEFORE YOU OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICE DEPARTMENT

| | |
|---|---|
| TOTAL BORE | 0' |
| TOTAL DIRT TRENCH | 0' |
| TOTAL ASPHALT TRENCH | 0' |
| TOTAL TRENCH | 0' |
| **SIDEWALK REMOVAL/REPAIR** | |
| TOTAL S/W PANELS | 0 |
| TOTAL LINEAR FOOTAGE | 0' |

## T21S R61E SEC3




VICINITY MAP

## REVISIONS

| REV | DESCRIPTION | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

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 ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

### APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENT ONLY. OBTAINING PERMISSION OR EASEMENT FOR WORK SHOWN IN PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

SEE COVER OF CIVIL PLAN

APPROVAL DATE

PERMIT #: N/A
DRAWN BY: WTB
DATE: 7/15/2019
SCALE: 1:30
NODE: RO098
PROJECT #: 40520190000TRSTRC
TECH #: 702-210-7014
APPROVED BY: GARY BAUMAN

1700 VEGAS DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 545-1606
FAX: (702) 545-2606

CITY OF LAS VEGAS
333 N. RANCHO DRIVE
LAS VEGAS, NEVADA 89106
(702) 229-6885

PROJECT LOCATION: IHOP
LAS VEGAS BLVD & ST LOUIS AVE

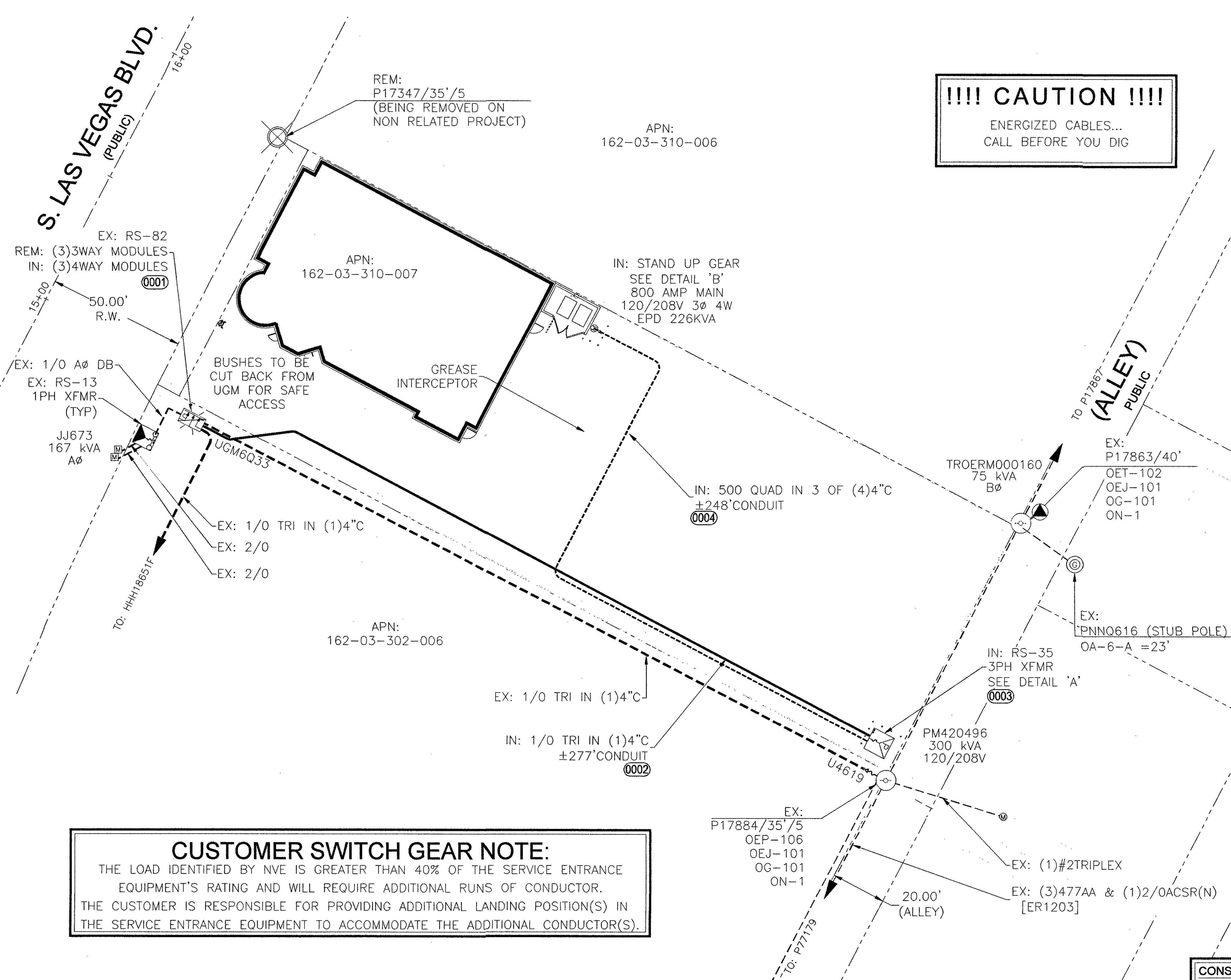
SUB-CONTRACTOR: DBA: COX COMMUNICATIONS

ENTITY NOTES: ~~NONE~~ L18-02470 107V7774

SHEET No: 1
Sheet 1 of 1

TrueNet# 14321

SHEET 8



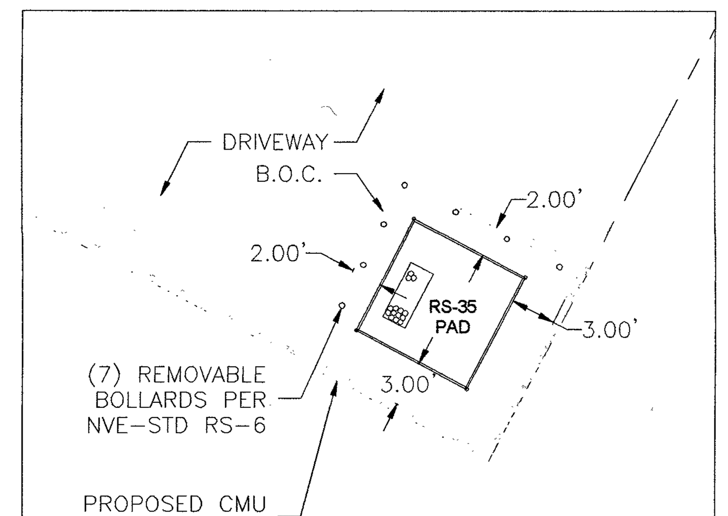

**!!!! CAUTION !!!!**
ENERGIZED CABLES...
CALL BEFORE YOU DIG

## CUSTOMER SWITCH GEAR NOTE:

THE LOAD IDENTIFIED BY NVE IS GREATER THAN 40% OF THE SERVICE ENTRANCE EQUIPMENT'S RATING AND WILL REQUIRE ADDITIONAL RUNS OF CONDUCTOR. THE CUSTOMER IS RESPONSIBLE FOR PROVIDING ADDITIONAL LANDING POSITION(S) IN THE SERVICE ENTRANCE EQUIPMENT TO ACCOMMODATE THE ADDITIONAL CONDUCTOR(S).

## CIVIL LINETYPE LEGEND

CENTERLINE
PROPERTY LINE/ROW
CURB
EDGE OF PAVEMENT
EDGE OF SIDEWALK
SEWER LINE (S)
WATER LINE (W)
COHW WATER LINE (COHW)
LVVWD WATER LINE (LVVWD)
SNWA WATER LINE (SNWA)
GAS LINE (GAS)
TELEPHONE LINE (TEL)
CABLE TV LINE (CATV)
CABLE TV LINE (FIBER)
STORM DRAIN LINE (SD)
FIRE HYDRANT
SERVICE INDICATOR
SIGNAL LIGHT
STREET LIGHT




## DETAIL 'A'
1" : 10'

| SOURCE | PROJECT CONNECTED LOAD (3Ø) | | | | LOOP |
|---|---|---|---|---|---|
| FC OR RISER | PH. | EX: KVA | ADDED KVA | TOTAL KVA | FC OR RISER |
| P17884 | A | 167 | 100 | 167 | N/A |
| UGM6Q33 | B | 0 | 100 | 100 | N/A |
| ER1203 | C | 0 | 100 | 100 | FUTURE |

### CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstructionS/servicestandards.cfm

NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT EACH OF THE FOLLOWING STAGES:
1. BOTTOM SAND AND CONDUIT INSTALLED
2. TOP SAND INSTALLED
3. BACKFILL INSTALLED

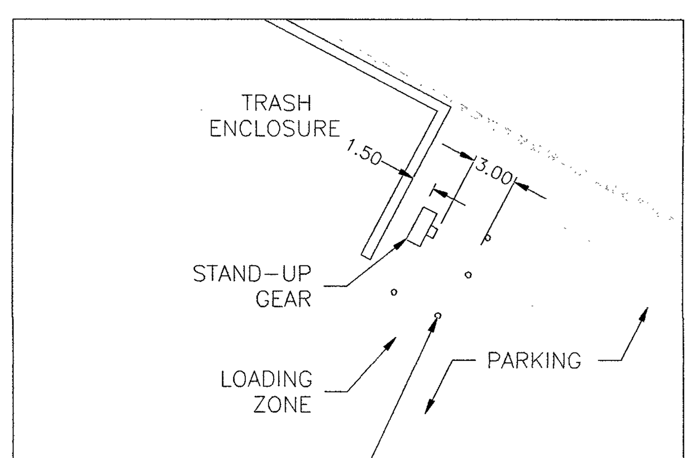
CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR).

NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE.

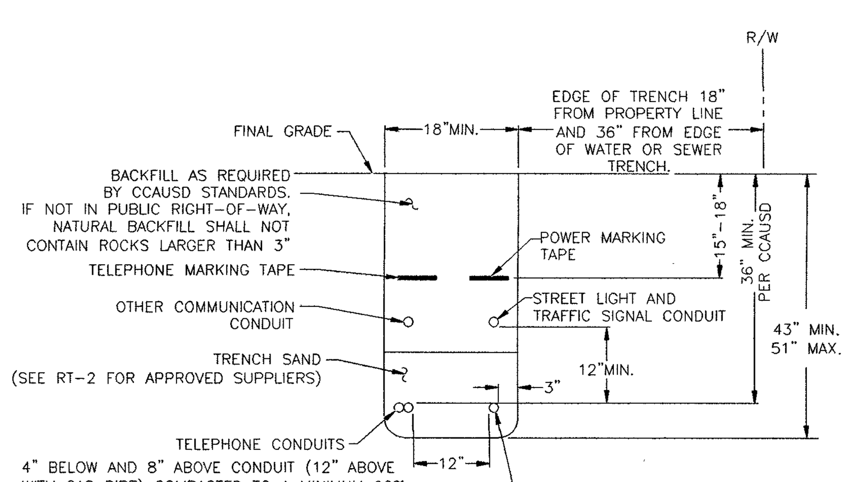
NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE:
- [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com)
- APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING EQUIPMENT.
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm




## DETAIL 'B'
1" : 10'




## TRENCH DETAIL
NVE U.G. STD. RT-12 (REV. 10/27/2014)
(RESIDENTIAL AND COMMERCIAL)

## CENTERLINE STATION TABLE

| # | STREET INTERSECTION | STA | HEADED |
|---|---|---|---|
| A | EAST ST. LOUIS AVENUE | 00+00.00 | EAST |
| | SOUTH LAS VEGAS BOULEVARD | 10+00.00 | NORTH |
| B | EAST OAKEY BOULEVARD | 00+00.00 | EAST |
| | SOUTH LAS VEGAS BOULEVARD | 21+62.35 | NORTH |

## STATION TABLE

| MAXIMO STATION | CORNER | CENTER LINE STATION | SIDE | OFFSET CL TO BOC | OFFSET CL TO ROW | OFFSET CL TO CLOSEST FACE OF SUBSTRUCTURE | SUBSTRUCTURE INFORMATION |
|---|---|---|---|---|---|---|---|
| 0009 | SOUTH | 14+95.32 | RT | 335.79' | 50.00' | 337.79' | RS-35 – 8.25' X 8.25' |
| | | FIELD NOTES: | | | | | OPERATING NUMBER: PM420496 |
| | | | | | | | PAGE NUMBER: 1 |
| | NORTH | 15+03.57 | RT | 335.79' | 50.00' | 337.79' | EASEMENT NUMBER: FUTURE |
| | | FIELD NOTES: | | | | | TYP. EASEMENT LAYOUT: FUTURE |

## METER LOCATION & ACCESS REQUIREMENTS
(NV ENERGY STANDARDS RPI-15 & RPI-G)

THIS STANDARD SPECIFIES THE REQUIREMENTS FOR THE LOCATION OF ALL NVENERGY (NVE) METERS AND SERVICE EQUIPMENT WITH THE EXCEPTION OF SINGLE-FAMILY RESIDENTIAL METERS (SEE RPI-2 FOR RESIDENTIAL METERS). REQUIREMENTS IN THIS STANDARD FACILITATE ACCESS TO SERVICE EQUIPMENT BY NVE PERSONNEL FOR PERFORMING OPERATIONS AND MAINTENANCE FUNCTIONS AS WELL AS FOR FIRE AND POLICE AGENCIES IN EMERGENCY SITUATIONS.

METER AND SERVICE ENTRANCE INSTALLATIONS MUST CONFORM TO THE LATEST REVISIONS OF RPI-G AND, SPECIFICALLY, THE "METER ACCESS" AND "METER LOCATIONS" SECTIONS OF RPI-G. THE STANDARD SERVICE POINT WILL BE LOCATED AT THE CORNER OF THE BUILDING NEAREST THE NV ENERGY SUPPLY. ALTERNATE SERVICE POINTS AND METER ROOMS, ALTHOUGH NOT PREFERRED, MAY, AT THE DISCRETION OF NVENERGY, BE ALLOWED PROVIDED THAT THEY MEET THE REQUIREMENTS OF SECTION 6 "ACCESS TO SERVICE EQUIPMENT" AND SECTION 8 "METER ROOMS".

ELECTRIC METER AND SERVICE EQUIPMENT INSTALLATIONS MUST BE READILY ACCESSIBLE TO AUTHORIZED REPRESENTATIVES OF NVE FOR READING, TESTING, AND INSPECTION AT ALL TIMES. CUSTOMER CONTACT WILL NOT BE REQUIRED FOR METER READING. PERMANENT VEHICLE ACCESS TO THE SERVICE EQUIPMENT IS REQUIRED FOR THE INSTALLATION AND MAINTENANCE OF SERVICE CABLES AND METERING EQUIPMENT.

THE SERVICE EQUIPMENT MUST BE ACCESSIBLE 24 HOURS/7 DAYS WITHOUT REQUIRING PASSAGE THROUGH RESTRICTED AREAS OR REQUIRING CUSTOMER CONTACT.

SERVICES 600V AND LESS, THE VEHICLE ACCESS WILL BE A MINIMUM 12' WIDE, 20' HIGH DIRECT PATH TO THE METERING EQUIPMENT.

ALL SERVICES GREATER THAN 600V (PRIMARY SERVICE) OR WHERE THE SERVICES INCLUDE THE INSTALLATION OF THREE-PHASE TRANSFORMERS, SWITCH OR FUSE CABINETS, CAPACITOR BANKS, OR OTHER LARGE EQUIPMENT, THE VEHICLE ACCESS WILL BE A MINIMUM 23' WIDE, WITH NO OVERHEAD OBSTRUCTION.

## NV ENERGY SCHEDULING NOTE: DAY (LANE BLOCKS)

THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING PERFORMED ON THIS PROJECT BY NV ENERGY CREWS CAN BE DONE DURING THE DAYTIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

## GENERAL NOTES:

ANY NOTES LOCATED IN DRAWING AREA TAKE PRECEDENCE OVER STANDARD NOTES.

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS.

THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES.

APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED.

ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100')

WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

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 ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

T,R,S: 21-61-03

APN: 162-03-310-007

NVE STANDARDS

## NVEnergy REQUIRES 24 HOUR ACCESS TO EQUIPMENT

## FIRE HYDRANT CLEARANCE:

6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES.
6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND SPLICEBOXES. ALL PER NVEnergy STD. RS-5

## CONDUIT SEALING REQUIREMENT:

**CONDUIT SEALING PER NESC AND OR NEC LATEST VERSION:**
**ALL ELECTRIC CONDUITS ENTERING BUILDING THROUGH OR PENETRATING CONCRETE SLAB SHALL BE SEALED AT BOTH ENDS WITH EXPANDING PLUG(S) AFTER CONDUIT IS MANDRILLED. NVE WILL INSTALL A PERMANENT SEAL, AFTER CONDUCTORS ARE INSTALLED.**

NOTE: ALL THE ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF CLV UNIFIED DEVELOPMENT CODE TITLE 19.06 AND 19.08

## APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL BY: [signature] 10/24/2019 DATE

**CITY OF LAS VEGAS PERMIT REQUIRED***

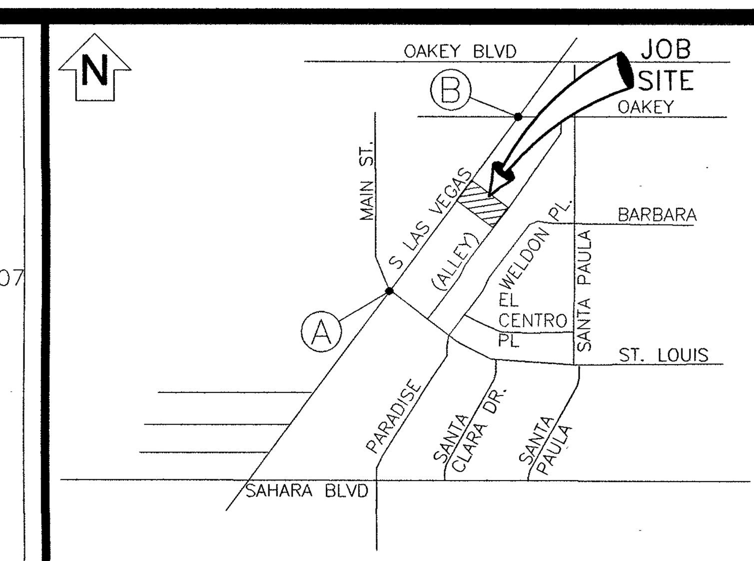
CONTACT CLV LAND DEVELOPMENT (229-6[...]) CLV CONSTRUCTION SERVICES MUST BE N[...] 24 HOURS PRIOR TO COMMENCING CON[...] (229-6337)

HANSEN__________

DATE__________

*NVE INSPECTOR MUST BE NOTIFIED BY FAX 48 HOURS PRIOR TO COMMENCING CONSTRUCTION & WILL VERIFY CITY PERMIT FOR WORK DONE IN STREETS OR SIDEWALK.
FAX PERMIT TO:
LAS VEGAS NORTH (RYAN CENTER): 402-4354
LAS VEGAS SOUTH (BELTWAY CENTER): 402-6864

FOR PERMITING ONLY




## VICINITY MAP
(NOT TO SCALE)

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**
CALL BEFORE YOU DO OVERHEAD
**CALL 1-702-402-2929**

**Call before you Dig**
**Avoid cutting underground utility lines. It's costly.**
**CALL 811**
OR
**1-800-227-2600**
**AND CLARK COUNTY TRAFFIC OPERATIONS**
**1-702-455-6000**

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY |
|---|---|---|---|
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## STANDARD

## PROJECT PURPOSE:

TO PROVIDE 3ϕ 120/208v SERVICE TO (1) NEW 800 AMP PANEL FOR NEW STAND ALONE RESTAURANT.

## EXHIBIT 'A'

NVEnergy INFORMATION:
COORDINATOR: GRAY, PATRICE
PHONE: (702)402-6828 D.F. CC
DESIGNER: MITCHELL, ARTHUR
DCA: N/A
INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM
STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118
DISTRICT: LVN

JPA INFORMATION:
JPA ADMIN PHONE: (702) 595-2551 JPA#: P201216621

CUSTOMER INFORMATION:
APPLICANT: SS&D NEVADA PROPERTIES LLC
APPLICANT CONTACT: ASHOORI, SEAN
CONTACT: SEGLER, KRISTOFER ** 702-685-0136
APPROVAL DATE: 10/15/2019

GOVERNMENT INFORMATION:
AGENCY: CLV
APPROVAL DATE:

**FO[R] EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR [...]NANT SPACE WILL BE MEASURED THROUGH ONE [...]R METER. ENERGY FOR ALL NON-TENANT SPACE WILL [...]D THROUGH ONE WATTHOUR METER. CONTACT NVE [...]TIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.**

NVEnergy

## IHOP AT LAS VEGAS BLVD

L18-02470 107V7774

## LAS VEGAS BLVD / OAKEY

| PROJ #3002904967 | SCALE: 1"=30' |
|---|---|
| SHEET # 1 OF 1 | DATE: 6/17/2019 |

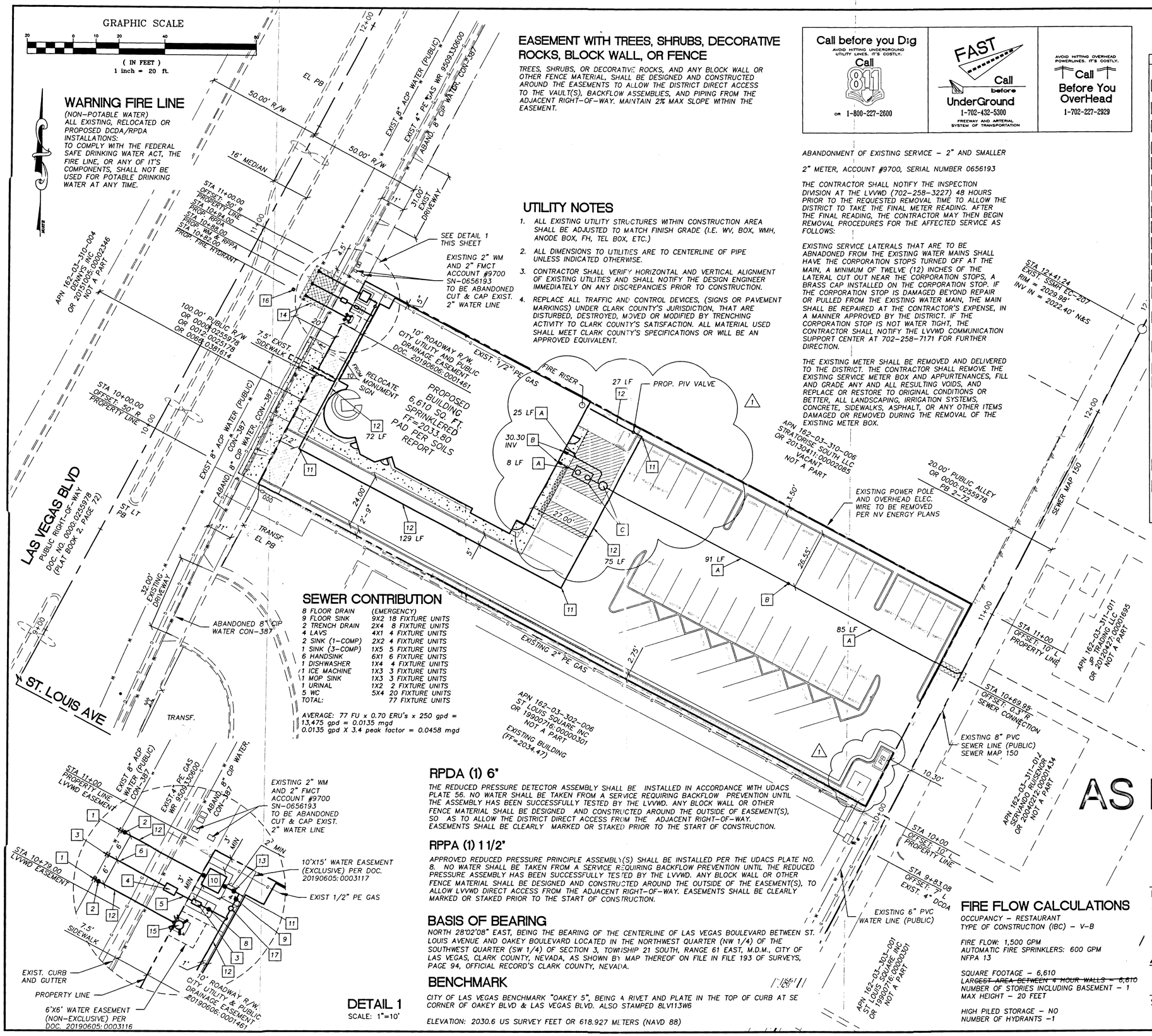
am29752

10/16/2019 10:12 AM

0 REVISION(S)

Sheet 9 - C9

Sharing of this drawing and the information contained herein shall be only to individuals/parties who have entered into an agreement with Applicant for the completion of work associated with this specific project. Use for purposes other than this specific project requires the written consent of NV Energy.




## WARNING FIRE LINE

(NON-POTABLE WATER)
ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF IT'S COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.

## EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENTS TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY. MAINTAIN 2% MAX SLOPE WITHIN THE EASEMENT.

## UTILITY NOTES

1. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANODE BOX, FH, TEL BOX, ETC.)
2. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. REPLACE ALL TRAFFIC AND CONTROL DEVICES, (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

## SEWER CONTRIBUTION

| | |
|---|---|
| 8 FLOOR DRAIN | (EMERGENCY) |
| 9 FLOOR SINK | 9X2 18 FIXTURE UNITS |
| 2 TRENCH DRAIN | 2X4 8 FIXTURE UNITS |
| 4 LAVS | 4X1 4 FIXTURE UNITS |
| 2 SINK (1-COMP) | 2X2 4 FIXTURE UNITS |
| 1 SINK (3-COMP) | 1X5 5 FIXTURE UNITS |
| 6 HANDSINK | 6X1 6 FIXTURE UNITS |
| 1 DISHWASHER | 1X4 4 FIXTURE UNITS |
| 1 ICE MACHINE | 1X3 3 FIXTURE UNITS |
| 1 MOP SINK | 1X3 3 FIXTURE UNITS |
| 1 URINAL | 1X2 2 FIXTURE UNITS |
| 5 WC | 5X4 20 FIXTURE UNITS |
| TOTAL: | 77 FIXTURE UNITS |

AVERAGE: 77 FU x 0.70 ERU's x 250 gpd =
13.475 gpd = 0.0135 mgd
0.0135 gpd X 3.4 peak factor = 0.0458 mgd

## RPDA (1) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 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 OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

## RPPA (1) 1 1/2"

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 REDUCED PRESSURE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), TO ALLOW LVVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

## BASIS OF BEARING

NORTH 28°02'08" EAST, BEING THE BEARING OF THE CENTERLINE OF LAS VEGAS BOULEVARD BETWEEN ST. LOUIS AVENUE AND OAKEY BOULEVARD LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 193 OF SURVEYS, PAGE 94, OFFICIAL RECORD'S CLARK COUNTY, NEVADA.

## BENCHMARK

CITY OF LAS VEGAS BENCHMARK "OAKEY 5", BEING A RIVET AND PLATE IN THE TOP OF CURB AT SE CORNER OF OAKEY BLVD & LAS VEGAS BLVD. ALSO STAMPED 8LV113W6

ELEVATION: 2030.6 US SURVEY FEET OR 618.927 METERS (NAVD 88)

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

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

AVOID HITTING OVERHEAD POWERLINES. IT'S COSTLY.
Call Before You OverHead
1-702-227-2929

ABANDONMENT OF EXISTING SERVICE – 2" AND SMALLER

2" METER, ACCOUNT #9700, SERIAL NUMBER 0656193

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING, THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS:

EXISTING SERVICE LATERALS THAT ARE TO BE ABNADONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY THE LVVWD COMMUNICATION SUPPORT CENTER AT 702-258-7171 FOR FURTHER DIRECTION.

THE EXISTING METER SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING METER BOX.

## FIRE FLOW CALCULATIONS

OCCUPANCY – RESTAURANT
TYPE OF CONSTRUCTION (IBC) – V-B

FIRE FLOW: 1,500 GPM
AUTOMATIC FIRE SPRINKLERS: 600 GPM
NFPA 13

SQUARE FOOTAGE – 6,610
~~LARGEST AREA BETWEEN 4 HOUR WALLS – 6,610~~
NUMBER OF STORIES INCLUDING BASEMENT – 1
MAX HEIGHT – 20 FEET

HIGH PILED STORAGE – NO
NUMBER OF HYDRANTS –1

## UTILITY NOTES AND QUANTITIES

THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES

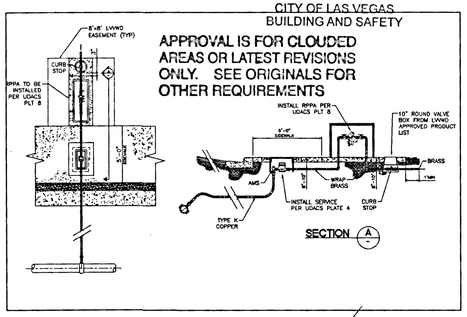
| | | UNITS | PUBLIC | PRIVATE |
|---|---|---|---|---|
| | WATER | | | |
| 1 | INSTALL 8"X6" TAPPING SLEEVE W/ 6" TAPPING VALVE PER UDACS 2.24.01 (A) PLATES 30, 34 AND 39 | EA | 2 | — |
| 2 | INSTALL 6" GATE VALVE PER UDACS PLATE 30 AND 39 | EA | 2 | — |
| 3 | INSTALL 1 1/2" WM, SERVICE SADDLE & CORP. STOP PER UDACS PLATE 4 | EA | 1 | — |
| 4 | INSTALL 1 1/2" RPPA PER PLATE 8 | EA | 1 | — |
| 5 | INSTALL 2" PVC WATER LATERAL | LF | — | 5 |
| 6 | INSTALL 1 1/2" COPPER LINE PER UDACS PLATE 4 | LF | 15 | — |
| 7 | INSTALL 1 1/2" BRASS PIPE & FITTINGS | | | |
| 8 | INSTALL CURB STOP PER DETAIL THIS SHEET | EA | 1 | — |
| 9 | INSTALL 6" CHECK VALVE | EA | — | 1 |
| 10 | INSTALL 6" RPDA PER UDACS PLATE 56 | EA | 1 | — |
| 11 | INSTALL 6" 90° BEND PER UDACS PLATE 31 △1 | EA | — | 4 |
| 12 | INSTALL 6" C-900 PRESSURE CLASS 305 WATER LINE | LF | 42 | 303 |
| 13 | INSTALL DOWNSTREAM 6" GATE VALVE WITH VALVE LOCK PER UDACS PLATE 30 AND 39 | EA | 1 | — |
| 14 | SAWCUT, TRENCHING AND BACKFILL PER UDACS PLATE 17, CCAUSD 503.1, PAVEMENT RESTORATION PER CCAUSD 500.5 | | | |
| 15 | INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE PER UDACS PLATE 40, 30 AND 39 | EA | 1 | — |
| 16 | INSTALL BLUE REFLECTIVE MARKER | EA | 1 | — |
| 17 | FIRE DEPARTMENT CONNECTION | | | |
| | SEWER | | | |
| A | INSTALL 6" PVC SEWER LATERAL (PRIVATE) PER SD-18, SD-22 AND SD-25 | LF | – | 214 |
| B | INSTALL 6" CLEANOUT PER SD-26 WITH TRAFFIC RATED LID | EA | – | 3 |
| C | INSTALL 1500 GAL GREASE INTERCEPTOR AND A SAMPLE BOX PER BUILDING PERMIT | EA | – | 1 |

REVIEWED FOR CODE COMPLIANCE

LS AUG 05 2019

CITY OF LAS VEGAS
BUILDING AND SAFETY

APPROVAL IS FOR CLOUDED AREAS OR LATEST REVISIONS ONLY. SEE ORIGINALS FOR OTHER REQUIREMENTS




DETAIL 2
NOT TO SCALE

AS BUILT

APPROVED FOR CONSTRUCTION:

7/29/19

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT # 136290 FIRST APPROVED DATE: 6/5/2019
SHEETS: C1, C2, C5
LVVWD APPROVED FIRE FLOW: 1,500 GPM / ONSITE: 0 GPM
FIRE SPRINKLERS: 600 GPM

7-24-19

CITY OF LAS VEGAS FIRE AND RESCUE (C1, C2, C5) DATE

7/25/19

SOUTHWEST GAS CORPORATION DATE

PROFESSIONAL ENGINEER - STATE OF NEVADA
PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480
08/01/19

PROFESSIONAL ENGINEER - STATE OF NEVADA
PETYA BALOVA
Exp. 12-31-20
CIVIL
No. 16480
07-17-19

| REV: | DATE: | BY: | REVISION: |
|---|---|---|---|
| △ | 07/08/19 | PB | ADDED PIV VALVE, ADJUSTED ONSITE WATER LINE LOCATION |


BALOVA ENGINEERING
7495 WEST AZURE DR. # 140
LAS VEGAS, NV 89130
TEL 702-682-1706



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY ERRORS TO THE ENGINEER PRIOR TO COMMENCING WORK. ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ENGINEER ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THEY ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT. THESE PLANS ARE TO BE CONSIDERED PRELIMINARY AND USED AT THE OWNER/DEVELOPER/CONTRACTORS RISK.


# IHOP - LAS VEGAS BOULEVARD
# UTILITY PLAN

1809 S. LAS VEGAS BOULEVARD
LAS VEGAS, NV 89104

DESIGNED BY: PB
CHECKED BY: PB
DATE: 07/08/19
JOB #: 18-IHOP
APN: 162-03-310-007
SECT3 T21SR61E
SCALE: HORIZ 1" = 20'

SHEET #
C5
5 OF 6