

JANUARY 2013



STEWART/OGDEN
STREETSCAPE ENHANCEMENTS

FUNDED BY:
CITY OF LAS VEGAS

BID NUMBER:
13.38964

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MAYOR:
CAROLYN G. GOODMAN
MAYOR PRO-TEM:
STAVROS S. ANTHONY
CITY COUNCIL:
LOIS TARKANIAN
STEVEN D. ROSS
RICKI Y. BARLOW
BOB COFFIN
BOB BEERS
CITY MANAGER:
ELIZABETH N. FRETWELL
DIRECTOR OF PUBLIC WORKS:
JORGE CERVANTES, P.E., P.T.O.E.
CITY ENGINEER:
DAVID BOWERS, P.E., P.T.O.E.

REVIEWED BY:

CLV CITY ENGINEER

CLV TRAFFIC ENGINEER

CLV ENGINEERING DESIGN PROJECT MANAGER

Southwest Gas Corporation

COX COMMUNICATIONS LAS VEGAS, INC.

NV ENERGY DISTRIBUTION

NV ENERGY TRANSMISSION

NVE ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NVE RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

 CenturyLink 1/17/13
DATE

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

Deak Meade
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 01/30/13 PROJECT No. 116989 ESN 018

GN-01, GN-02, GN-03, ~~RD-01 THRU RD-04~~, UT-01 THRU UT-04

FIRE DEPARTMENT APPROVAL
APPROVAL BY THE FIRE DEPARTMENT HAVING
JURISDICTION IS REQUIRED PRIOR TO OBTAINING
FINAL APPROVAL FROM THE LVVWD.

ESN 012 REV. 6/1/04

811
know what's below
Call before you dig! 1-800-4-A-DIG

SAFETY ALERT
Call Before You Dig
Before You Overhead
1-800-4-A-DIG

A diagram shows a street with a traffic light and a street lamp. Below the ground surface, a network of conduits is shown, with one conduit leading from the street lamp pole down into the ground.

AVEID HITTING UNDERGROUND
 TRAFFIC SIGNAL SYSTEMS
 STREET LAMP SYSTEM CONDUITS
 IT'S COSTLY

ALL BEFORE
 YOU DO
 UNDERGROUND

Call before you
UnderGround
 1-702-432-5300

STREET AND ARTERIAL SYSTEM OF TRANSPORTATION

SHEET:

DEPARTMENT OF PUBLIC WORKS

PROJECT:

**STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS**

COVER SHEET

STATE OF NEVADA
PROFESSIONAL ENGINEER
SHANNON R. AHARTZ
Exp: 12/31/14
CIVIL
No. 021219

1-10-13

SHEET NO.
GN-01
SHEET 1 OF 38
DRAWING NO.
107V5739

Jan 10, 2013 - 11:34am - USER shannon.ahartz
\\LAV_PublicTrans\092256\023 Stewart-Ogden\CADD\256023gn.dwg

CITY OF LAS VEGAS – GENERAL NOTES

- 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 EDITION; 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; THE "UNIFORM BUILDING CODE"; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- 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.
- 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.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM AT 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED MAXIMUM EVERY 300 FEET (300') IN EXTRUDED-TYPE CURB.
- AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
- CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
- 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 PROJECT REPRESENTATIVE.
- 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 TRANSITIONS TO BE AS SHOWN ON PLANS.
- ALL GRADING WORK SHALL BE APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- 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 RELOCATION.
- 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.
- 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 AND THE CITY ENGINEER.

WALL NOTES:

- 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.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT-OF-WAY.
- 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.
- 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.
- 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.
- SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE OFFSITE INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE. THE MAP(S) SHALL INCLUDE 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 TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXITS THE PUBLIC RIGHT-OF-WAY. THE LOCATION SHALL BE DESCRIBED BY STATE PLANE COORDINATES WHICH SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND TIED TO THE CITY OF LAS VEGAS VERTICAL CONTROL BENCHMARK NETWORK. COORDINATES MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINITIES OF +/-0.1 METER (+/-0.3 FEET). 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).
- SANITARY SEWER SERVICE LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE SEWER SERVICE LATERAL TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERAL EXITS THE PUBLIC RIGHT-OF-WAY. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL 1404-XR OR APPROVED EQUIVALENT.
- 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.
- A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 04/15/10

CITY OF LAS VEGAS – TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEVELOPMENT DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL 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.
- WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCLOSED 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 IS REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF THE TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKINGS SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1160 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM; SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. 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.
- 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 PROPOSED SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
- 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.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO ENSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR ISEA WORK ZONE SAFETY SPECIALIST SET-UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.), IF THE OWNER'S ASSON INTERRUPTS OR INDIVIDUAL PROPERTIES STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE NO: 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.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- 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 04/15/10

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

- 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.
- 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.
- 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.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY APRONS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
- 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.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO ANY SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
- 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 OWNERS. IF THE OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION, DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJUTING 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.

CITY OF LAS VEGAS – FIRE AND RESCUE NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT'S ORDINANCE # 5067, "HYDRANT SPECIFICATIONS", AND "HYDRANT INSTALLATION SPECIFICATION".
- AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
A) KENNEDY-GUARDIAN MODELS KB1A AND KB1D
B) MUELLER-SUPER CENTURION 250 MODEL A-423
C) GLOW-MEDALLION MODEL F-2546LVD
D) TROY VALVE – PATRIOT MODEL PT8100N NEVADA HYDRANT
E) U.S. PIPE – METROFLOW/M-03
- 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.
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE #5067.
- ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CALL THE CITY OF LAS VEGAS INSPECTION HOT-LINE AT 229-2071 TO REQUEST AN INSPECTION BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- PAINTING OF THE CURBS AND FIRE HYDRANTS AND ALL OTHER WORK NECESSARY AS REQUIRED BY ORDINANCE # 5067, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- A PERMIT IS REQUIRED FROM THE CITY OF LAS VEGAS FIRE DEPARTMENT FOR THE ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK.
- PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
- PRIOR TO THE FINAL OCCUPANCY, A FLOW TEST MUST BE WITNESSED BY THE CITY OF LAS VEGAS FIRE DEPARTMENT TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW.
- 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.
- FIRE HYDRANTS SPACING SHALL BE:
RESIDENTIAL – 500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED.
COMMERCIAL – 300 FEET UNSPRINKLERED 400 FEET SPRINKLERED.
- WHERE NEW 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 MAXIMUM 1,000 FOOT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR 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 FEET ON AN ALTERNATING BASIS.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE.
- THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET.
- TWO SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS 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.
- 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.
- THE GRADIENT FOR A FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%.
- THE TURNING RADIUS OF A FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADII.
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
- FIRE DEPARTMENT ACCESS ROADS IN ALL RESIDENTIAL DEVELOPMENTS (EXCEPT FOR THE APARTMENT BUILDINGS) SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 36 FEET FLOW LINE TO THE FLOW LINE (THIS WIDTH MAY BE REDUCED TO 24 FEET, IF ALL BUILDINGS FRONTING THE STREET ARE SPRINKLERED) FOR MAIN RESIDENTIAL STREETS, WITH PARKING PERMITTED ON BOTH SIDES OF THE STREET. PRIVATE DRIVE AISLES, DRIVEWAYS, ETC. SHALL BE ALLOWED TO BE REDUCED TO A MINIMUM WIDTH OF 24 FEET FLOW LINE TO THE FLOW LINE WHEN SERVING NO MORE THAN 6 RESIDENCES, AND WHEN ON STREET PARKING IS DISALLOWED.
- ALL FIRE APPARATUS ACCESS ROADS IN COMMERCIAL DEVELOPMENTS AND APARTMENT COMPLEXES SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FEET (FLOW LINE TO THE FLOW LINE), PROVIDED NO PARKING IS ALLOWED ON EITHER SIDE; 32 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED ON ONE SIDE ONLY; AND 40 FEET (FLOW LINE TO THE FLOW LINE), IF PARALLEL PARKING IS ALLOWED IN BOTH SIDES. THESE WIDTHS MAY BE REDUCED BY 4 FEET IF ALL BUILDINGS ARE SPRINKLERED.
- A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET OF A SINGLE EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING.
- A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 200 FEET IF THE BUILDING IS SPRINKLERED.
- APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, DRAIN(S) WITH DEAD-ENDS OR A SINGLE POINT OF ACCESS IN EXCESS OF 600 FEET, AND FOR ALL COMMERCIAL, INDUSTRIAL, AND MULTI-FAMILY RESIDENTIAL DEVELOPMENTS.
- ALL DEAD-END FIRE APPARATUS ACCESS ROADS AND OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA HAVING A MINIMUM DIAMETER OF 81 FEET.
- 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 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF A CURB IS NOT PROVIDED SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS GUIDELINES FOR AUTOMATIC EMERGENCY VEHICLE ACCESS GATES.

APPROVED FOR CONSTRUCTION

Don Meade
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 01/30/13 PROJECT No. 116989 ESN 018

CITY OF LAS VEGAS – STREETLIGHT NOTES

- 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 AND ANY ADOPTED SPECIAL AREA STANDARDS.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL STREET LIGHTING CONDUIT STUBS SHALL HAVE AT LEAST ONE GREEN #8 THW WIRE INSTALLED, AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF 2 #4 AND 1 #8 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
- ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
- AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TEF0 PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
- SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
- 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.
- 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, AT NO EXPENSE TO THE CITY OF LAS VEGAS, BEFORE STREETLIGHT BASES ARE INSTALLED.
- THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
- 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 STREET LIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO 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 (TEF0) AT (702) 229-6331.

REVISED 04/15/10

CITY OF LAS VEGAS – SEWER NOTES

- 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.
- 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.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES PAVED IN STREETS EIGHTY FOOT (80') R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY FOOT (80') R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- 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.
- 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 INCHES (18") UNDER A WATER MAIN.
- 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.
- 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 THE ACCEPTANCE BY THE CITY OF LAS VEGAS.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED 04/15/10

CITY OF LAS VEGAS – GRADING NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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:

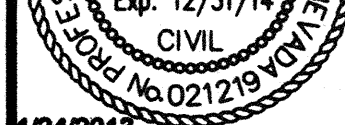
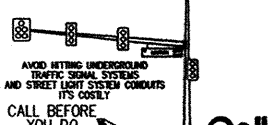
	HORIZONTAL	VERTICAL
A) PAVEMENT AREA SUBGRADE	0.1" +	+0.0' TO -0.1'
B) ENGINEERED FILL	0.5" +	+0.1' TO -0.1'

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- 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.
- 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.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/10

DEVIATION FROM STANDARDS

NONE



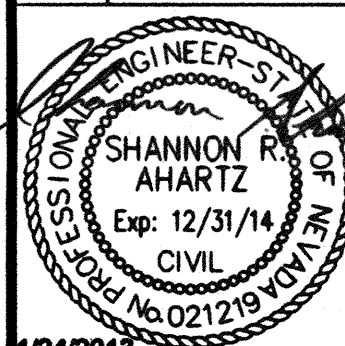
1/24/2013

GN-02
107V5739

DEPARTMENT OF PUBLIC WORKS

STEWART/ODGEN
STREETSCAPE
ENHANCEMENTS

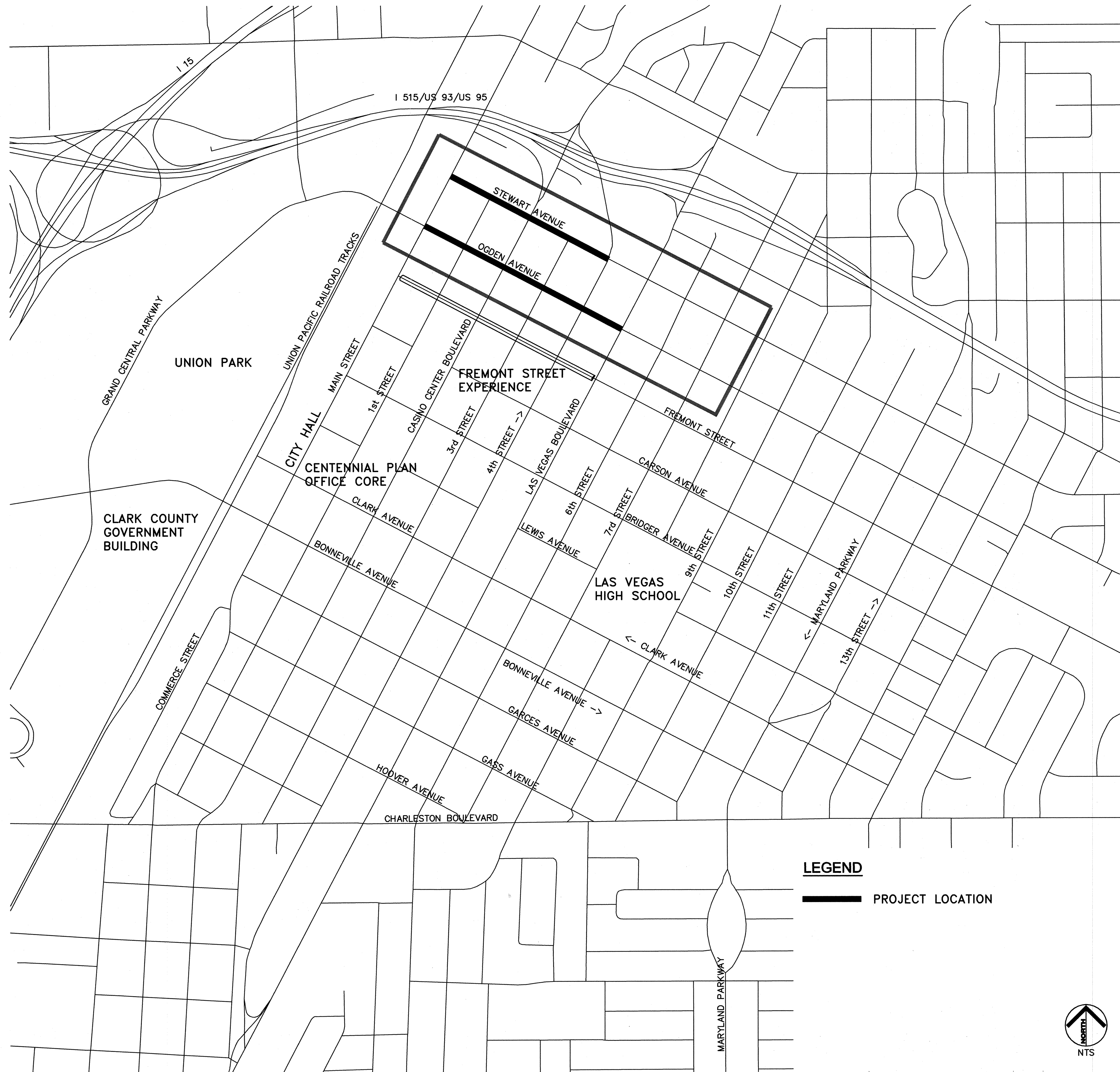
GENERAL NOTES



1/24/2013

GN-02
107V5739

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VICINITY MAP

LEGEND

PROJECT LOCATION

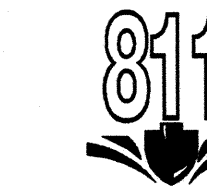
ABBREVIATIONS

•	AT	MIN	MINIMUM
A.B.	AGGREGATE BASE	N	NORTH
AC	ASPHALTIC CONCRETE	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	NVE	NY ENERGY
AVE	AVENUE	PC	POINT OF CURVATURE
BC	BACK OF CURB	PCC	POINT OF COMPOUND CURVATURE
BCR	BEGIN CURB RETURN	PE	POLY ETHYLENE
BLVD	BOULEVARD	PRC	POINT OF REVERSE CURVATURE
BM	BENCHMARK	PROJ TC	PROJECTED TOP OF CURB
CALC	CALCULATED EX GRADE	PSI	POUNDS PER SQUARE INCH
CCAUSSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	PT	POINT OF TANGENCY
CL	CENTERLINE	PVC	POLY VINYL CHLORIDE
CLV	CITY OF LAS VEGAS	R	RADIUS
CTV	CABLE TELEVISION	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RPPA	REDUCED PRINCIPLE PRESSURE ASSEMBLY
DESC	DESCRIPTION	RT	RIGHT
DDCA	DOUBLE CHECK DETECTOR	R/W	RIGHT OF WAY
DCSWCS	DESIGN and CONSTRUCTION STANDARDS for WASTEWATER COLLECTION SYSTEMS	S	SOUTH
DG	DUCTILE IRON PIPE	SD	STORM DRAIN
DIP	EAST	SF	SQUARE FOOT OR FEET
E	EACH	SS	SANITARY SEWER
ELEV	ELEVATION	SSMH	SANITARY SEWER MANHOLE
ELEC	ELECTRICAL	ST	STREET
EX OR EX.	EXISTING	STL	STEEL
FAST	FREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION	STD	STANDARD
FG	FINISH GROUND	SY	SQUARE YARDS
FH	FIRE HYDRANT	TC	TOP OF CURB
FS	FINISHED SURFACE	THW	THERMO-PLASTIC HEAT AND WATER RESISTANT INSULATED WIRE
FL	FLOWLINE	(TYP)	TYPICAL
FT	FOOT OR FEET	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
GB	GRADE BREAK	USDPWC	UNIFORM STANDARD DRAWINGS for PUBLIC WORKS CONSTRUCTION
GPM/H	GALLONS PER MINUTE/HOUR	UTAC	ULTRA THIN ASPHALT CONCRETE
HP	HIGH POINT	VC	VERTICAL CURVE
HT	HEIGHT	VERT	VERTICAL
INV	INVERT	W	WEST OR WATER
LA	LANDSCAPE	WL	WATERLINE
LF	LINEAR FEET	WTR	WATER
LT	LEFT	±	PLUS OR MINUS
LWWD	LAS VEGAS VALLEY WATER DISTRICT		
MAX	MAXIMUM		
MH	MANHOLE		

SYMBOLS AND LINE TYPE LEGEND

PROPOSED	EXISTING	
		CAP W/ BLOW OFF
		FIRE HYDRANT
		GATE VALVE
		REDUCER
		METER
		RPPA
		SERVICE PEDESTAL
		STREET SIGN
		STREET LIGHT
		GRADE ELEVATION
		SLOPE GRADE

APPROVED FOR CONSTRUCTION
Shannon Ahart
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 01/30/13 PROJECT No. 116989 ESN 018



SAFETY ALERT
Call before you dig
Call before you dig



DEPARTMENT OF PUBLIC WORKS
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS
SHEET: ABBREVIATIONS, LEGEND, AND VICINITY MAP

107V5739

RECORD OF SURVEY MAP FOR
STEWART AVENUE AND OGDEN AVENUE
BETWEEN
MAIN STREET AND LAS VEGAS BOULEVARD

PROJECT COORDINATE TABLE

ID NUMBER	NORTHING (GROUND)	EASTING (GROUND)
101	768902.58	87400.52
102	768477.48	87177.92
103	768654.02	86841.63
104	768830.55	86505.16
105	769007.08	86168.68
106	769183.66	85832.11
107	769361.71	85492.75
108	769786.58	85715.51
109	769608.58	86054.81
110	769431.97	86391.45
111	769078.91	87084.41

COORDINATE CONVERSIONS

TO CONVERT NEVADA STATE PLANE COORDINATES, EAST ZONE (2701) TO EQUIVALENT PROJECT GROUND COORDINATES:

MULTIPLY THE NORTHING IN METERS BY 3937/1200, THEN
MULTIPLY BY THE INVERSE COMBINED FACTOR 1.000169169, THEN SUBTRACT 26,000,000.

MULTIPLY THE EASTING IN METERS BY 3937/1200, THEN
MULTIPLY BY THE INVERSE COMBINED FACTOR 1.000169169, THEN SUBTRACT 700,000.

TO CONVERT PROJECT GROUND COORDINATES TO NEVADA STATE PLANE COORDINATES, EAST ZONE (2701):

ADD 26,000,000 TO NORTHING, THEN MULTIPLY BY THE COMBINED FACTOR 0.99983086, THEN DIVIDE BY 3937/1200 TO OBTAIN GRID NORTHING COORDINATE IN METERS.

ADD 700,000 TO EASTING, THEN MULTIPLY BY THE COMBINED FACTOR 0.99983086, THEN DIVIDE BY 3937/1200 TO OBTAIN GRID EASTING COORDINATE IN METERS.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 45° 09' 07" WEST, BEING THE LINE BETWEEN GIS MONUMENT 826 AND GIS MONUMENT 876 AS SHOWN ON THE MAP TITLED "RECORD OF SURVEY FOR CLARK COUNTY LAS VEGAS VALLEY GEODETIC CONTROL NETWORK" ON FILE WITH THE CLARK COUNTY RECORDER IN FILE 88, PAGE 53 OF SURVEYS.

VALUES FOR THE MONUMENTS ON NORTH AMERICAN DATUM OF 1983 (NAD83) NEVADA STATE PLANE EAST ZONE (2701) HIGH ACCURACY REFERENCE NETWORK 1994 (HARN) ADJUSTED COORDINATES.

STATE PLANE COORDINATES		PROJECT GROUND COORDINATES	
GIS 826		NORTHING	764456.64 U.S. SURVEY FEET
NORTHING	8156442.882 METERS	EASTING	94195.69 U.S. SURVEY FEET
EASTING	242030.387 METERS		
GIS 876		NORTHING	780327.62 U.S. SURVEY FEET
NORTHING	8161279.551 METERS	EASTING	78240.37 U.S. SURVEY FEET
EASTING	237168.018 METERS		

BENCHMARKS

CITY OF LAS VEGAS BENCHMARK NUMBER 2LV01 22SSE6, BEING A RIVET & PLATE IN TOP OF CURB @ NE CORNER OF OWENS & MAIN.

NAVD 88 2008 ADJUSTMENT
580.583 METERS 1904.79 US SURVEY FEET (COMPUTED)

CITY OF LAS VEGAS BENCHMARK NUMBER 1LV01 26W4 BEING A RIVET & PLATE IN TOP OF CURB @ SE CORNER OF WASHINGTON & LAS VEGAS BLVD.

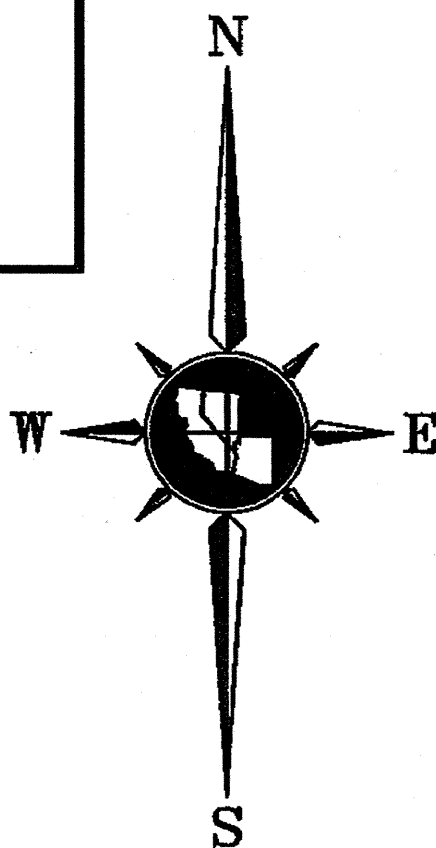
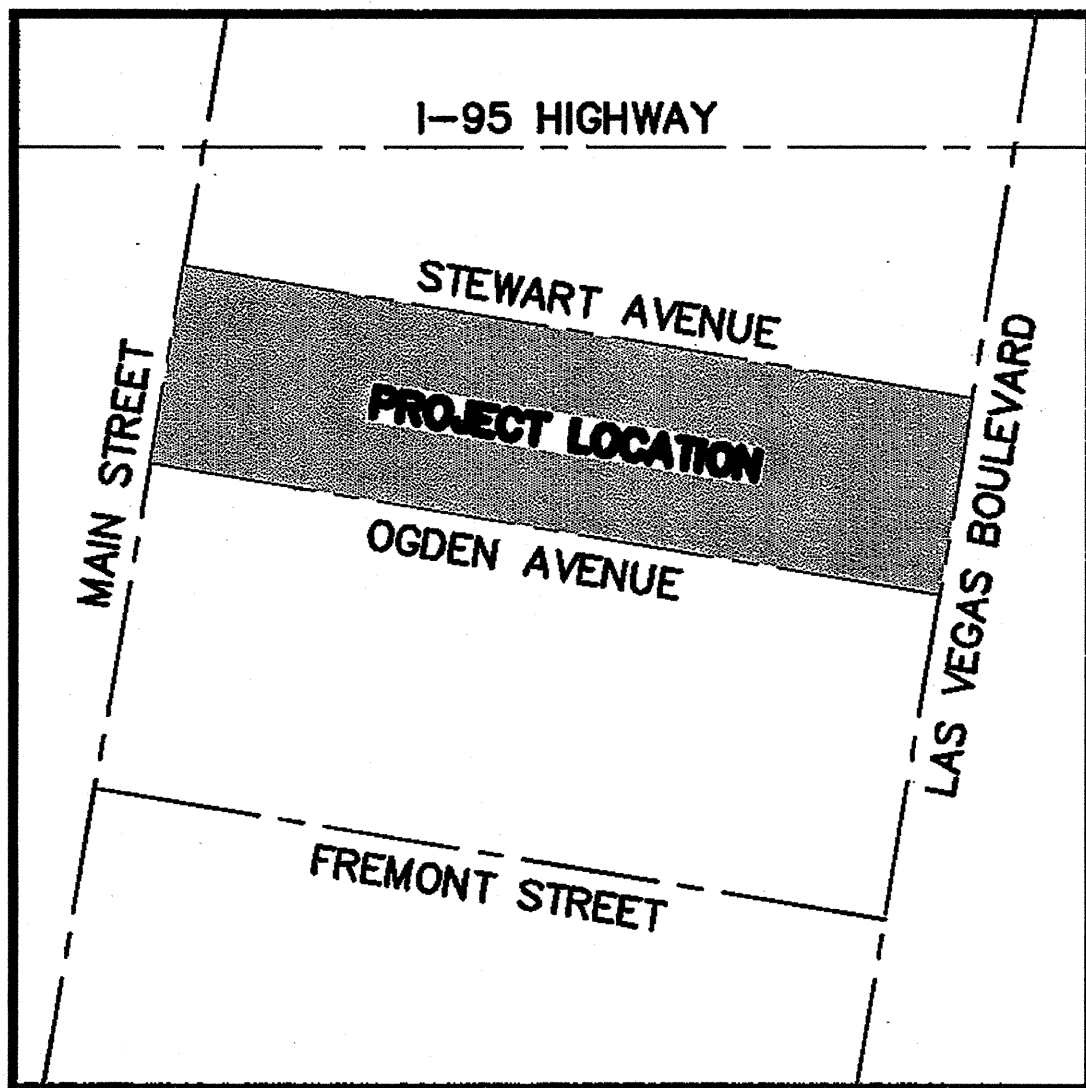
NAVD 88 2008 ADJUSTMENT
591.151 METERS 1939.47 US SURVEY FEET (COMPUTED)

CITY OF LAS VEGAS BENCHMARK NUMBER 1LV01 34NE6 BEING A RIVET & PLATE IN TOP OF CURB @ SE CORNER OF STEWART & LAS VEGAS BLVD.

NAVD 88 2008 ADJUSTMENT
611.087 METERS 2004.87 US SURVEY FEET (COMPUTED)

VICINITY MAP

NOT TO SCALE.



REFERENCE MAPS

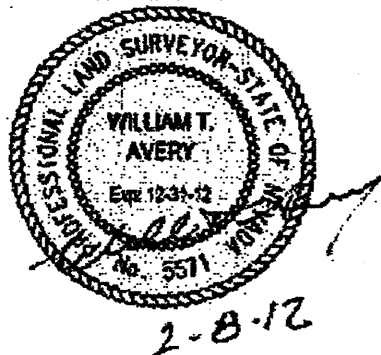
SURVEYS:
FILE 087, PAGE 079
FILE 104, PAGE 088
FILE 159, PAGE 080
FILE 168, PAGE 030
FILE 172, PAGE 051

PLATS:
BOOK 001, PAGE 037
BOOK 087, PAGE 035
BOOK 131, PAGE 025

SURVEYOR'S CERTIFICATE

I, WILLIAM T. AVERY, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, AS AGENT FOR TRI STATE SURVEYING, LTD., DO HEREBY CERTIFY THAT:

- THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF KIMLEY-HORN AND ASSOCIATES, INC.
- THE LANDS SURVEYED LIE WITHIN SITUATE IN THE NORTH ONE-HALF (N1/2) OF SECTION 34, AND THE SOUTHWEST ONE-QUARTER (SW1/4) OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 61 EAST, MOUNT DIABLO MERIDIAN, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AND THIS SURVEY WAS COMPLETED ON JANUARY 03, 2012.
- THIS PLAT COMPLIES WITH THE APPLICABLE STATE STATUTES AND ANY LOCAL ORDINANCE IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATIVE CODE.
- THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT NUMBER AND DURABILITY.



WILLIAM T. AVERY
PROFESSIONAL LAND SURVEYOR
NEVADA CERTIFICATE NO. 5571

COUNTY RECORDER'S NOTE

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX. N.R.S. 278.5695

PROJECT NO.: 11 123 01 LM
PREPARED BY: JJJ
REVIEWED BY: WTA/BKJ

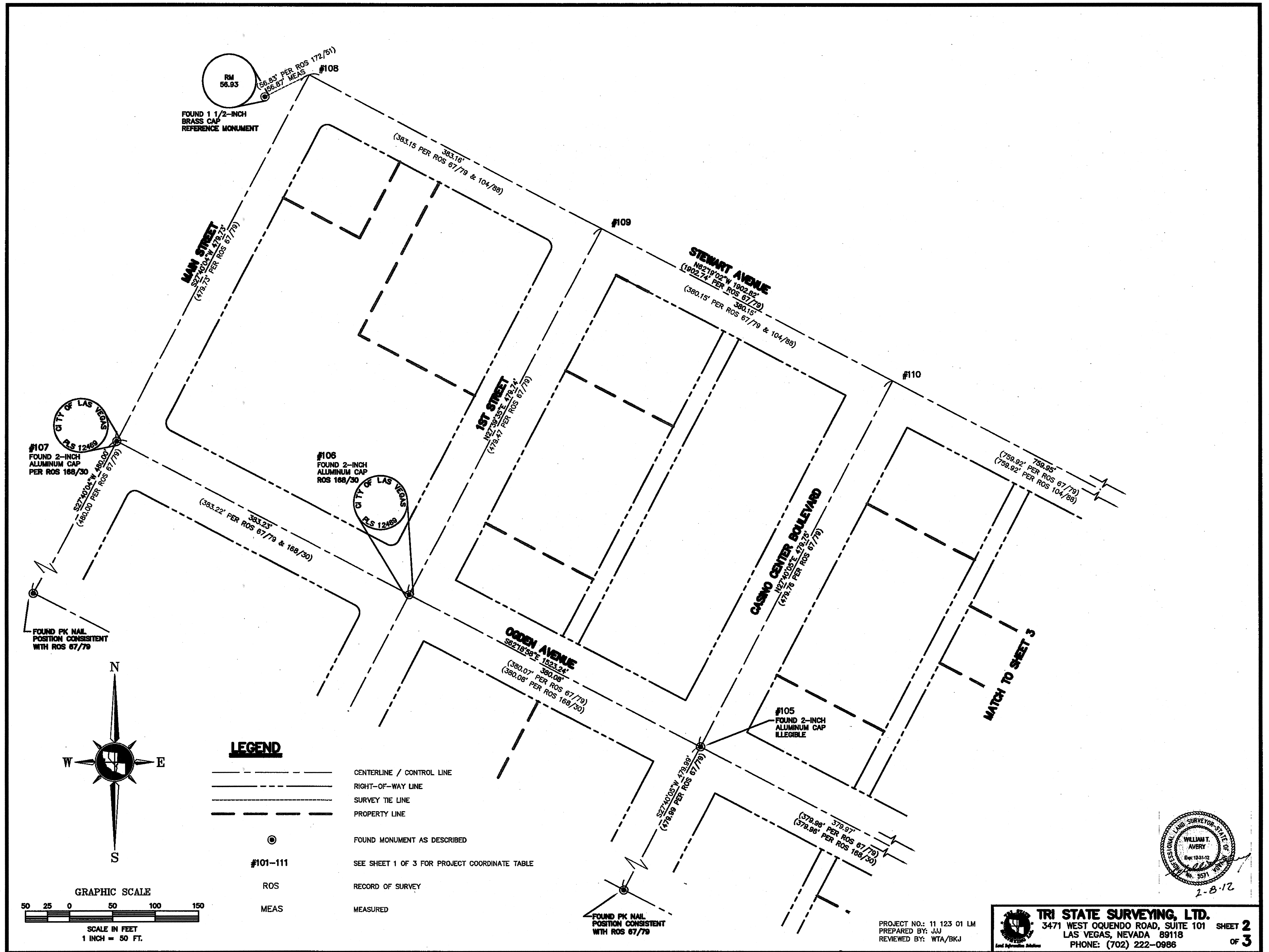
RECORD OF SURVEY
FOR
KIMLEY-HORN AND ASSOCIATES, INC.
SITUATE IN THE NORTH ONE-HALF (N1/2)
OF SECTION 34, AND THE SOUTHWEST ONE-QUARTER
(SW1/4) OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 61
EAST, MOUNT DIABLO MERIDIAN, CITY OF LAS VEGAS,
CLARK COUNTY, NEVADA

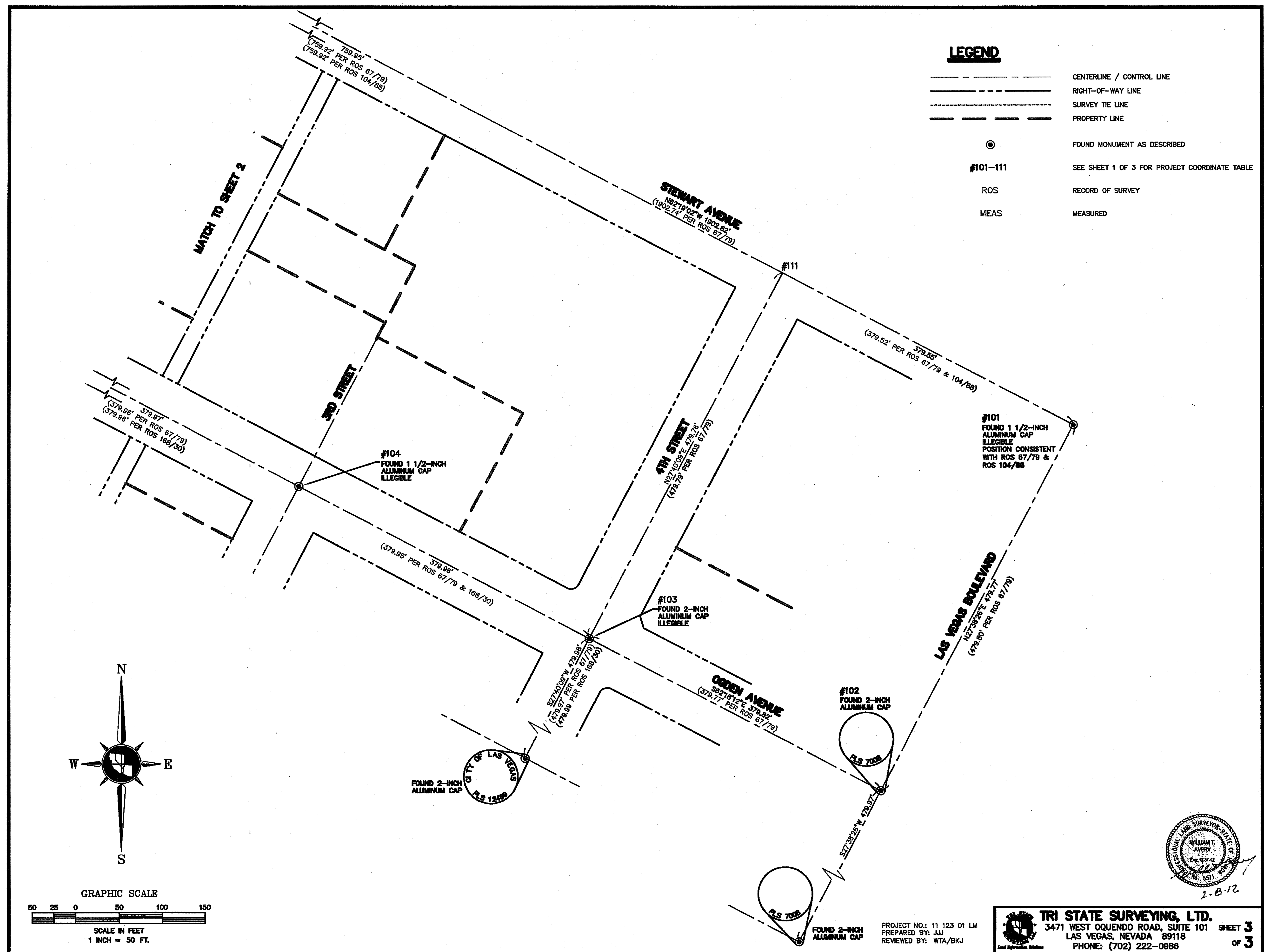


TRI STATE SURVEYING, LTD.
3471 WEST OQUENDO ROAD, SUITE 101
LAS VEGAS, NEVADA 89118
PHONE: (702) 222-0986

SHEET 1
OF 3

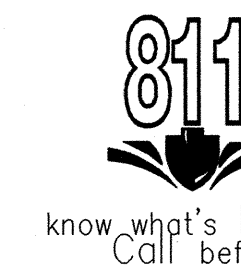
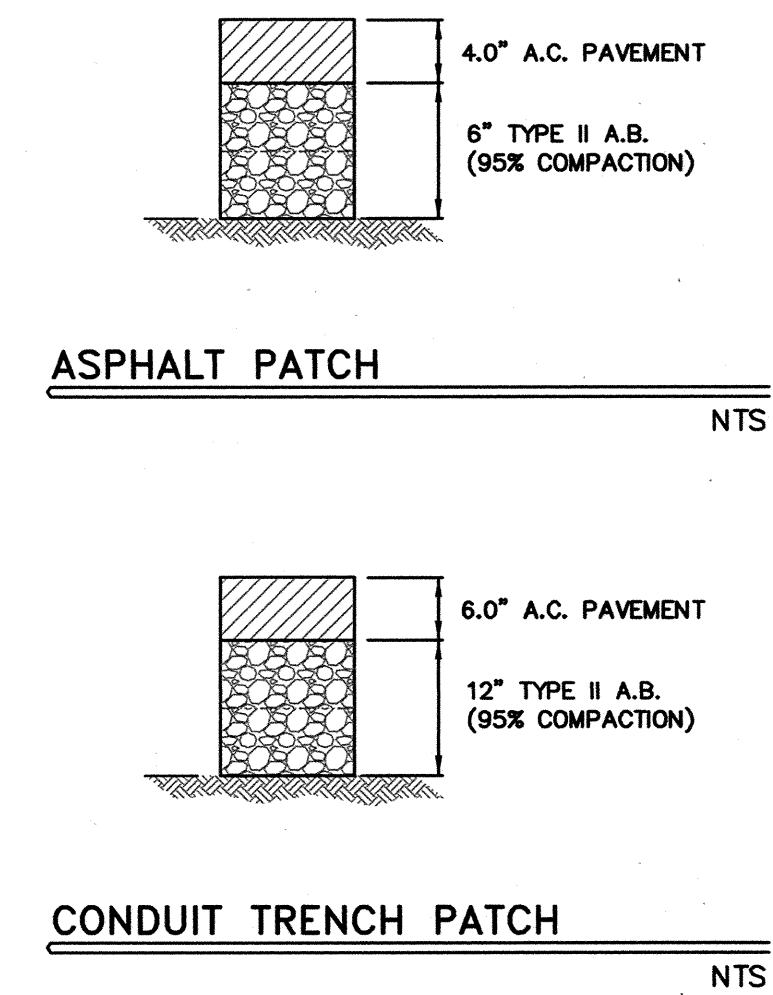
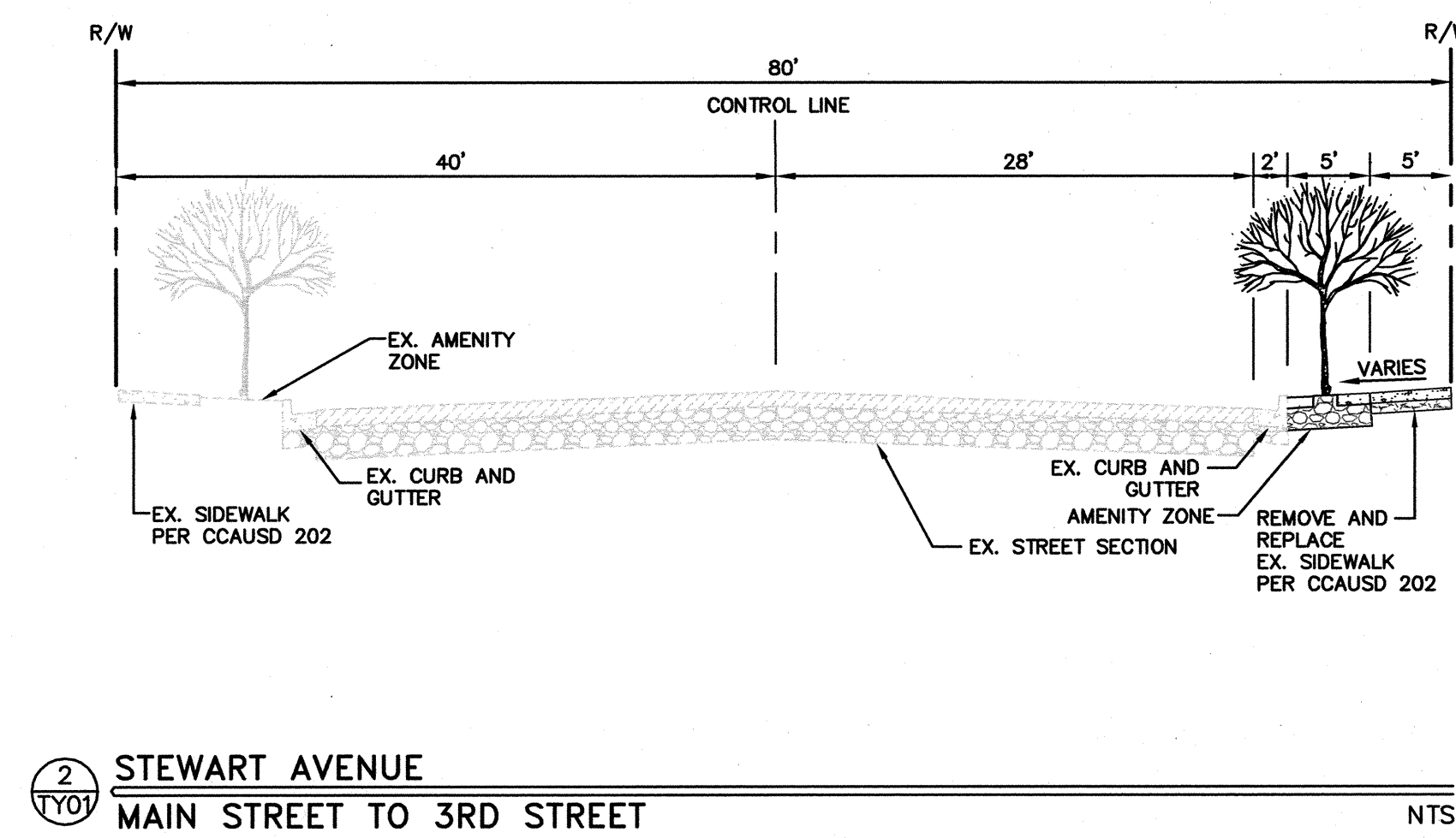
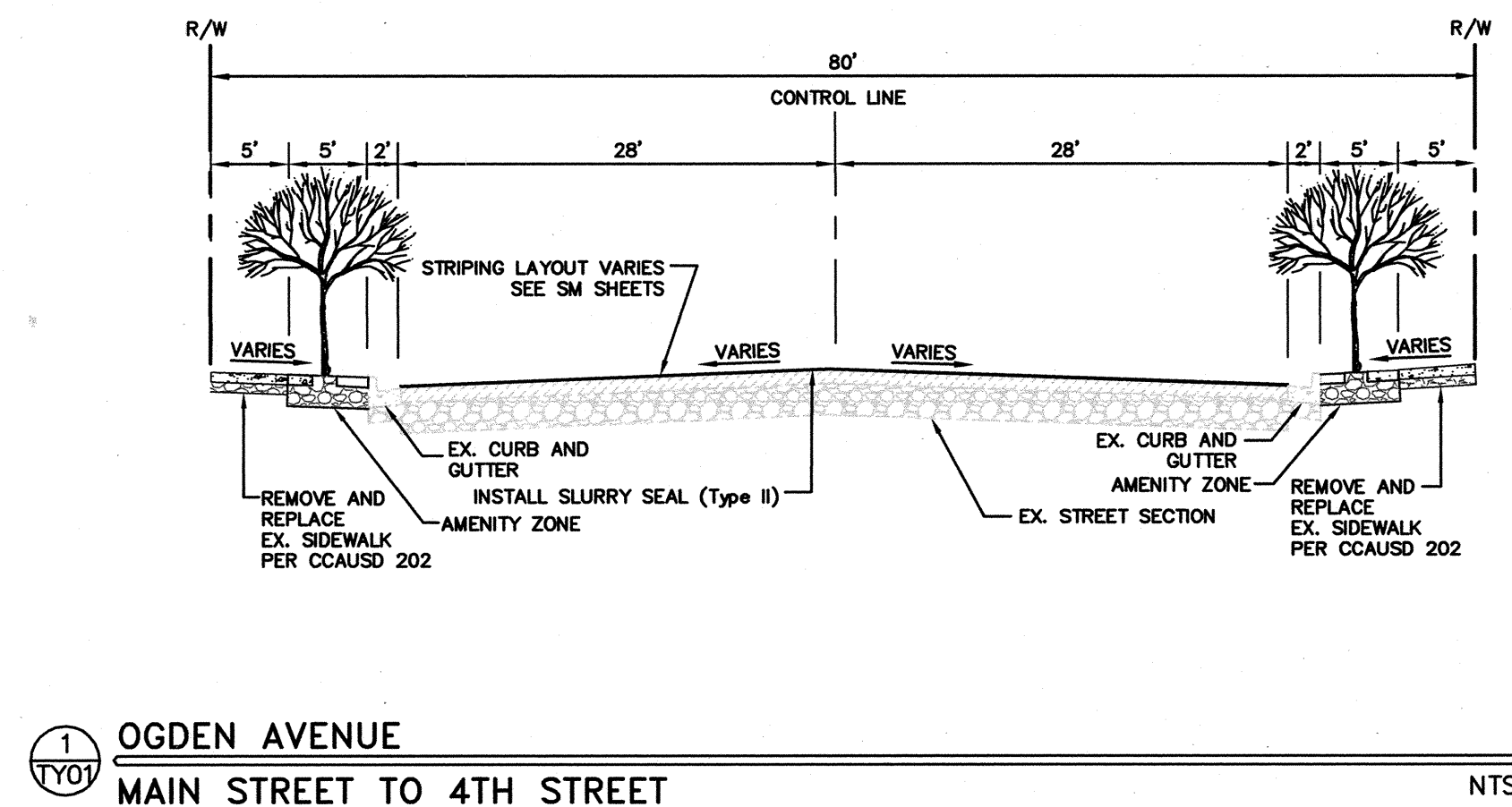
NO. 00000000
FILED AT THE REQUEST OF TRI STATE SURVEYING, LTD.
DATE 2-9-12 AT 1:00 PM
FILE 185 PAGE 0056
OF SURVEYS
OFFICIAL RECORDS BOOK NO. 2012 02 02
CLARK COUNTY, NEVADA RECORDER DENISE GUNAWAY RECORDER
FEE \$ 25.00 DEPUTY SMO



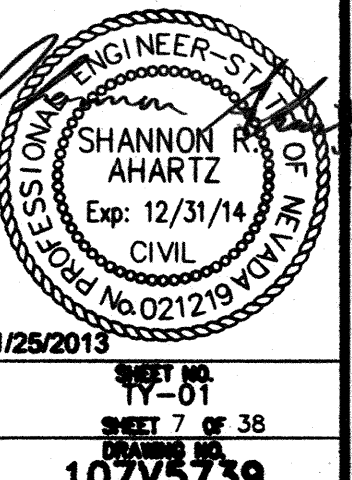


185-0086

Jan 25, 2013 - 4:04pm - USER shannon.dhartz
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SAFETY ALERT
Call Before You Dig
Before You Overhead
1-702-227-2929



DEPARTMENT OF PUBLIC WORKS
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS
SHEET: TYPICAL SECTIONS
107V5739

SCALE (H):	SCALE (V):	SCALE (S):	DATE:	REVISIONS	DATE
NTS	NTS	NTS	OCTOBER 2010		
DRAWN BY: JSM	DESIGNED BY: JSM	CHECKED BY: PHM			
Kimley-Horn and Associates, Inc. Engineering, Planning, and Environmental Consultants 6671 Las Vegas Blvd. S., Suite 320, Las Vegas, NV 89119 PH: (702) 885-3500					



- NOTES:

1. NO. 4 BARS AT 16" O.C. BOTHWAYS EXTENDING INTO GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE SUPPORTED BY NON-FERROUS CHAIRS APPROVED BY THE ENGINEER.
2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
3. WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAX. INTERVALS.
4. SPECIAL DESIGNS SUBJECT TO APPROVAL OF THE ENGINEER.

CONCRETE ALLEY/DRIVEWAY ENTRANCE
DETAIL

NTS



- NOTES:

1. SIDEWALK RAMP WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.
2. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
3. WHEN CONSTRUCTING RAMP WHERE CURB & GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER.
4. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET # OF CCAUSD DRAWING NO. 235 AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND TO A MINIMUM DEPTH OF 24 INCHES.
5. RAMP DIMENSIONS ARE AS SHOWN UNLESS OTHERWISE STATED IN THE ROADWAY SHEETS.

MODIFIED SIDEWALK RAMP (CASE II)

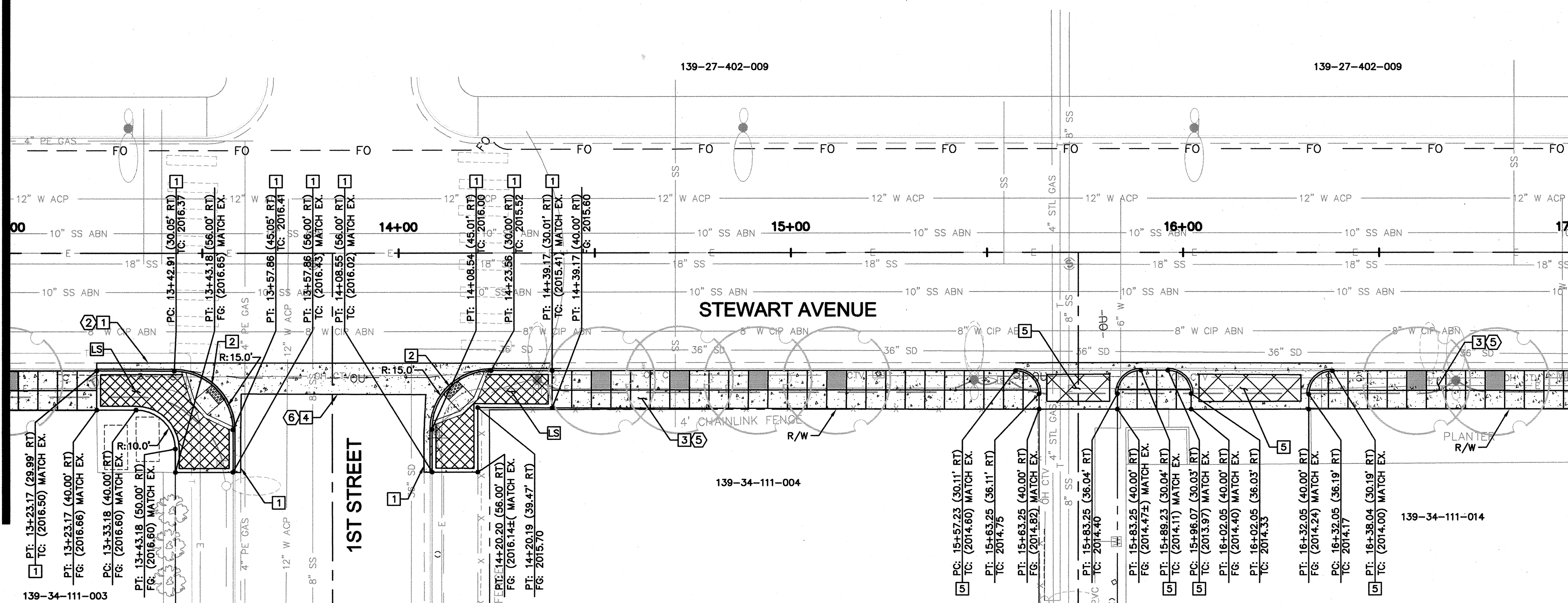
DETAIL

NTS

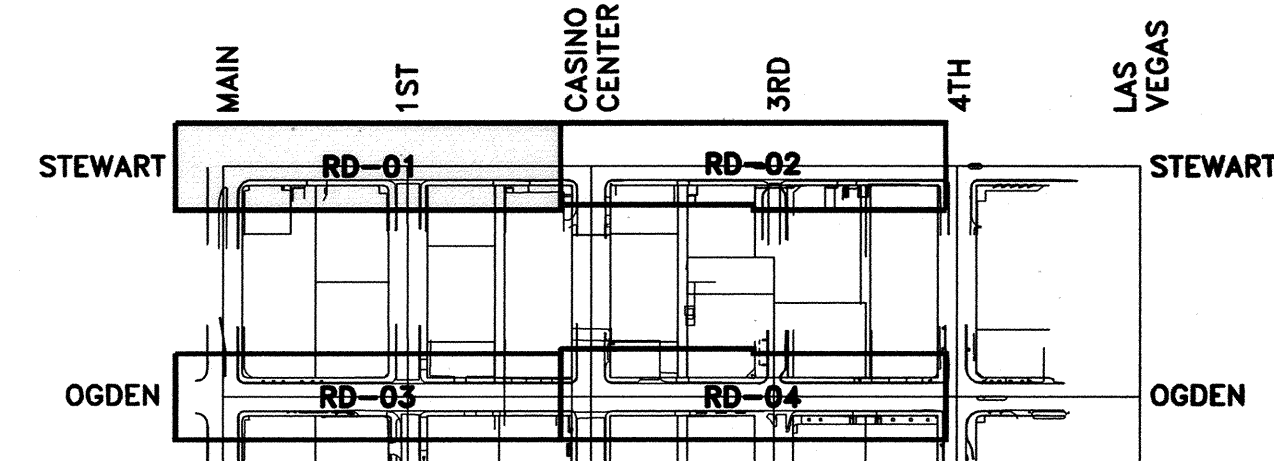
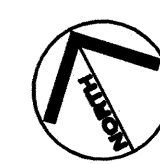
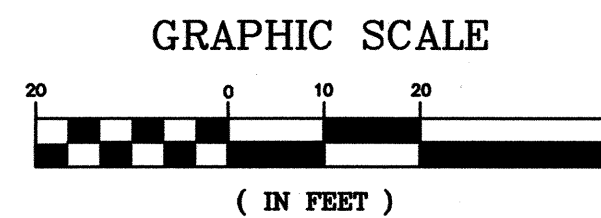


	SHEET: PROJECT:	DEPARTMENT OF PUBLIC WORKS STEWART/OGDEN STREETSCAPE ENHANCEMENTS DETAILS		SCALE (H): NTS DRAWN BY: NSU	SCALE (V): NTS DESIGNED BY: NSU	DATE: OCTOBER 2015 CHECKED BY: PMJ	© 2015 Kimley-Horn and Associates, Inc. <i>Engineering, Planning, and Environmental Consultants</i> 6871 Las Vegas Blvd. S., Suite 320, Las Vegas, NV 89119 PH. (702) 942-3600	REVISIONS	DATE
				1/25/2015 SHEET NO. 01-01 SHEET 3 OF 38 107757339					

MATCHLINE ~ STA 13+00
SEE ABOVE RIGHT



MATCHLINE ~ STA 17+00
SEE SHEET RD-02



GENERAL NOTES

- ALL STATIONS AND OFFSETS ARE BASED ON CONTROL LINE.
- ELEVATIONS, OFFSETS AND GRADES ARE AT BACK OF CURB UNLESS OTHERWISE NOTED.
- SEE HC SHEETS FOR CENTER LINE INFORMATION, BENCHMARK, AND BASIS OF BEARING.
- ALL EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING SANITARY SEWER AND STORM DRAIN INVERT ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL MANHOLES, VALVES, VAULTS, ETC. LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE.
- SEE SHEET TY-01 FOR CONDUIT TRENCH PATCH STRUCTURAL SECTION. USE CONDUIT TRENCH PATCH STRUCTURAL SECTION IN AREAS OF CONDUIT INSTALLATION THAT ARE OUTSIDE LIMITS OF FULL PAVEMENT RECONSTRUCTION.
- ALL MAGAZINE RACKS, TRASH RECEPTACLES, AND STREET FURNITURE LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED PRIOR TO SIDEWALK DEMOLITION AND PUT BACK IN PLACE FOLLOWING NEW SIDEWALK INSTALLATION.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING CURB AND GUTTER UNLESS NOTED OTHERWISE. (TYPICAL).

BENCHMARK

THE ELEVATION DATA SHOWN HEREON ARE U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. CITY OF LAS VEGAS BENCHMARKS - 2008 ADJUSTMENT (UPDATED 05/24/2010). STATION "1LV01 34NEE" BEING A RIVET AND PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF STEWART AVE. AND LAS VEGAS BLVD.

ELEVATION 611.087 METERS - PUBLISHED
ELEVATION 2004.87 U.S. SURVEY FEET - COMPUTED

CONSTRUCTION NOTES

- REMOVE EXISTING ROADWAY SECTION AND INSTALL ASPHALTIC PAVEMENT PATCH PER DETAIL SHEET TY-01
- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234
- EXISTING UTILITY, PROTECT IN PLACE
- CONSTRUCT PAVERS PER DETAILS ON LANDSCAPE SHEETS
- CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD No. 216
- CONSTRUCT CASE II SIDEWALK RAMP PER DETAIL SHEET DT-01
- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234 (SEE LA SHEETS FOR SCORING PATTERN DETAILS)
- CONSTRUCT CONCRETE CROSS GUTTER (8'-FOOT) PER CCAUSD No. 228
- CONSTRUCT CONCRETE ALLEY/DRIVEWAY ENTRANCE PER DETAILS, SHEET LA-06
- REMOVE AND REPLACE EXISTING SIDEWALK ROOF DRAIN. REALIGN EXISTING DRAIN AS NECESSARY TO AVOID PROPOSED TREE PITS OR OTHER PROPOSED IMPROVEMENTS.
- REMOVE AND RELOCATE EXISTING PULL BOX

DEMOLITION NOTES

- ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE
- REMOVE EXISTING CURB AND GUTTER
- SAWCUT AND REMOVE ASPHALT PAVEMENT TO EXISTING GUTTER
- REMOVE EXISTING LANDSCAPE TREES/SHRUBS, REMOVE AND CAP EXISTING IRRIGATION LINES
- REMOVE EXISTING SIDEWALK
- REMOVE EXISTING VALLEY GUTTER
- REMOVE EXISTING TREE
- ADJUST EXISTING PULL BOX TO FINISHED GRADE

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 45° 09' 07" WEST, BEING THE LINE BETWEEN GIS MONUMENT 826 AND GIS MONUMENT 876 AS SHOWN ON THE MAP TITLED "RECORD OF SURVEY FOR CLARK COUNTY LAS VEGAS VALLEY GEODETIC CONTROL NETWORK" ON FILE WITH THE CLARK COUNTY RECORDER IN FILE 88, PAGE 53 OF SURVEYS.

VALUES FOR THE MONUMENTS ON NORTH AMERICAN DATUM OF 1983 (NAD83) NEVADA STATE PLANE EAST ZONE (2701) HIGH ACCURACY REFERENCE NETWORK 1994 (HARN) ADJUSTED COORDINATES.

STATE PLANE COORDINATES		PROJECT GROUND COORDINATES	
GIS 826		NORTH	764456.64 U.S. SURVEY FEET
NORTH	8156442.882 METERS	EAST	94195.69 U.S. SURVEY FEET
GIS 876		NORTH	780327.62 U.S. SURVEY FEET
NORTH	8161279.551 METERS	EAST	78240.37 U.S. SURVEY FEET
EAST	237168.019 METERS		

CALL SOUTHWEST GAS
at 365-2296 for Standby
when excavating over or near
HIGH PRESSURE GAS LINES



Call before you dig! 1-702-432-5300
Call before you dig! 1-702-227-2329

KEY MAP

NTS

DATE: JANUARY 2013

SCALE (H): NTS

SCALE (V): NTS

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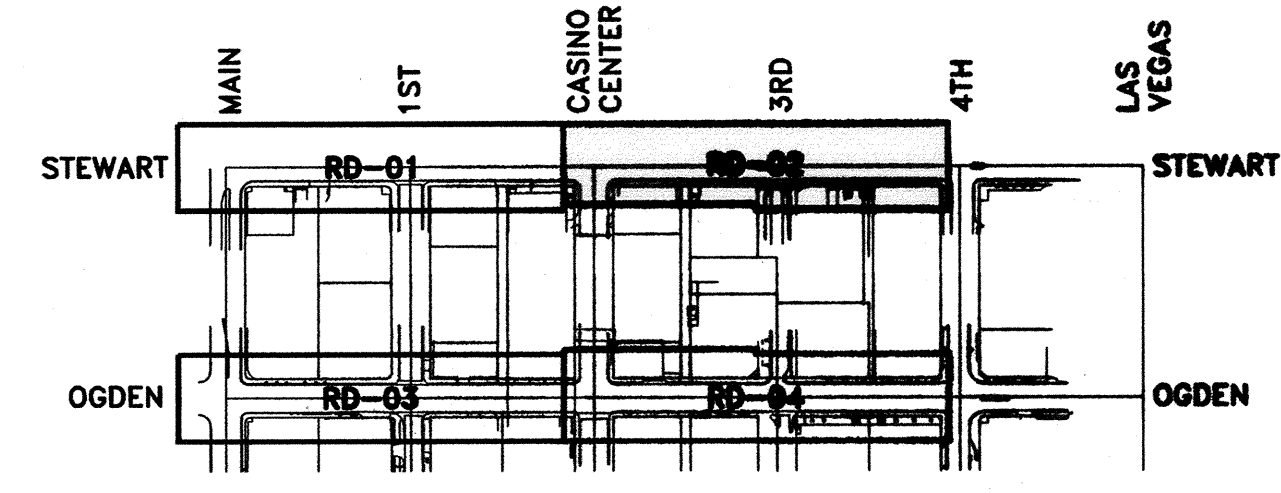
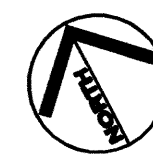
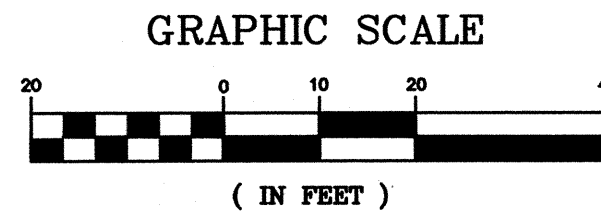
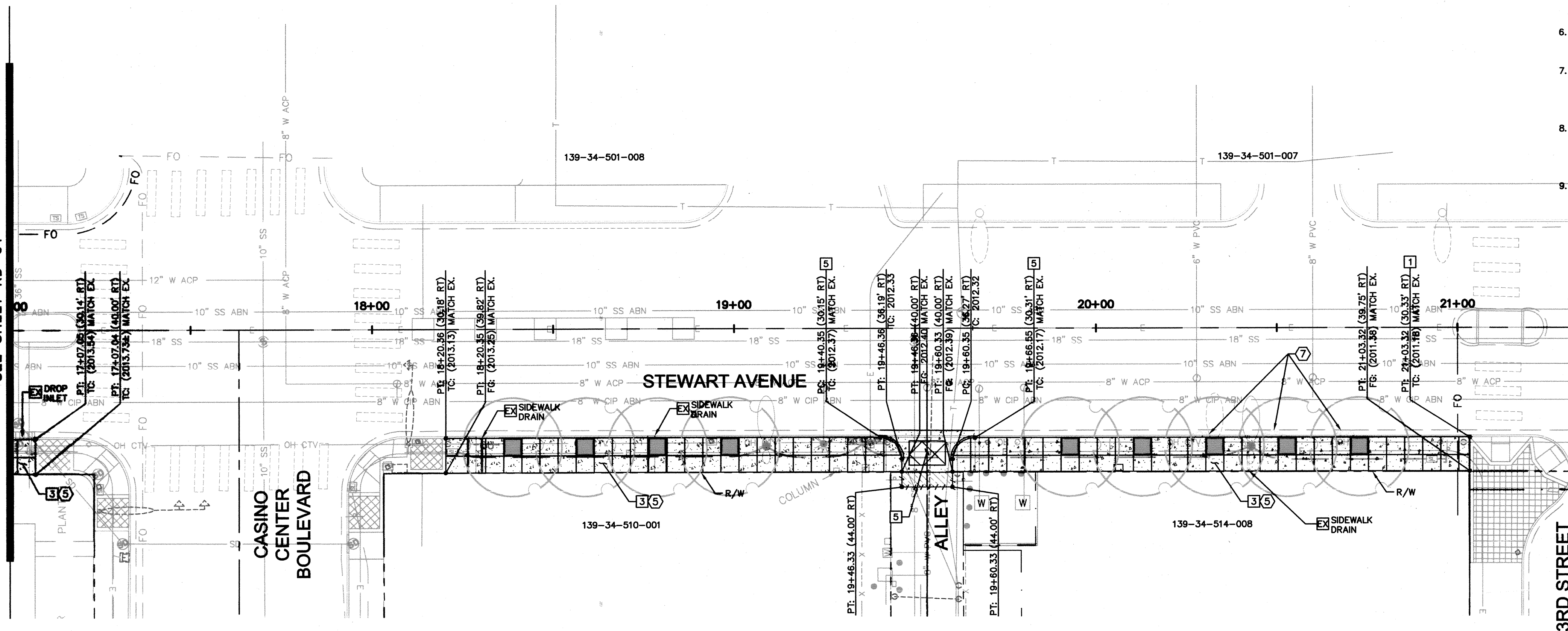
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MATCHLINE ~ STA 17+00
SEE SHEET RD-01



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ELEVATION 611.087 METERS - PUBLISHED
ELEVATION COMPUTED 2004.87 U.S. SURVEY FEET -

CONSTRUCTION NOTES

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- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234
- EXISTING UTILITY, PROTECT IN PLACE
- CONSTRUCT PAVERS PER DETAILS ON LANDSCAPE SHEETS
- CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD No. 216
- CONSTRUCT CASE 1 SIDEWALK RAMP PER DETAIL SHEET DT-01
- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234 (SEE LA SHEETS FOR SCORING PATTERN DETAILS)
- CONSTRUCT CONCRETE CROSS GUTTER (8-FOOT) PER CCAUSD No. 228
- CONSTRUCT CONCRETE ALLEY/DRIVEWAY ENTRANCE PER DETAILS, SHEET LA-06
- REMOVE AND REPLACE EXISTING SIDEWALK ROOF DRAIN. REALIGN EXISTING DRAIN AS NECESSARY TO AVOID PROPOSED TREE PITS OR OTHER PROPOSED IMPROVEMENTS.
- REMOVE AND RELOCATE EXISTING PULL BOX

DEMOLITION NOTES

- ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE
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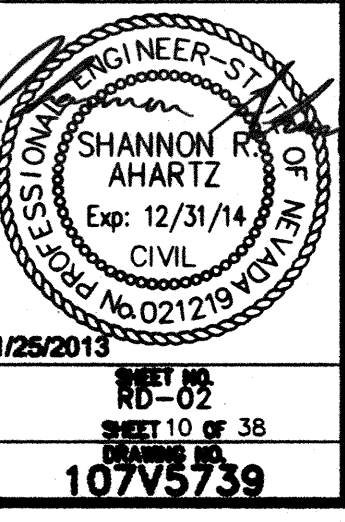
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HIGH PRESSURE GAS LINES



SAFETY ALERT
Call before you dig
Overhead
Underground
1-702-432-5300



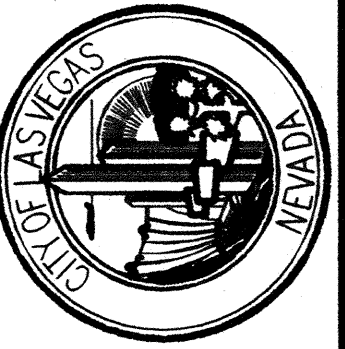
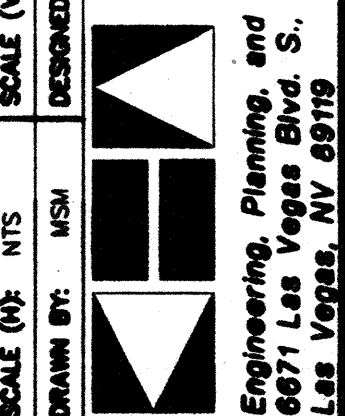
DEPARTMENT OF PUBLIC WORKS

STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS

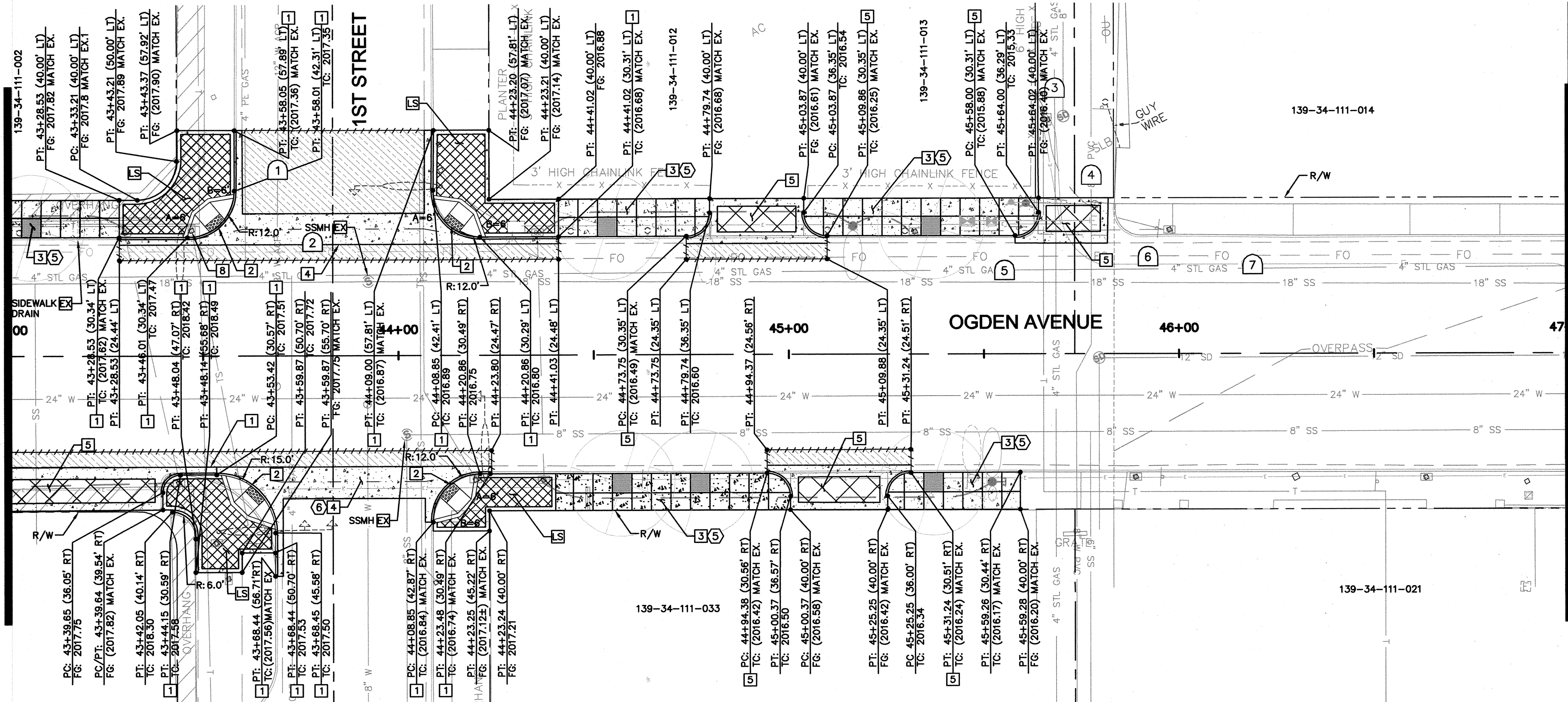
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REVISIONS		DATE

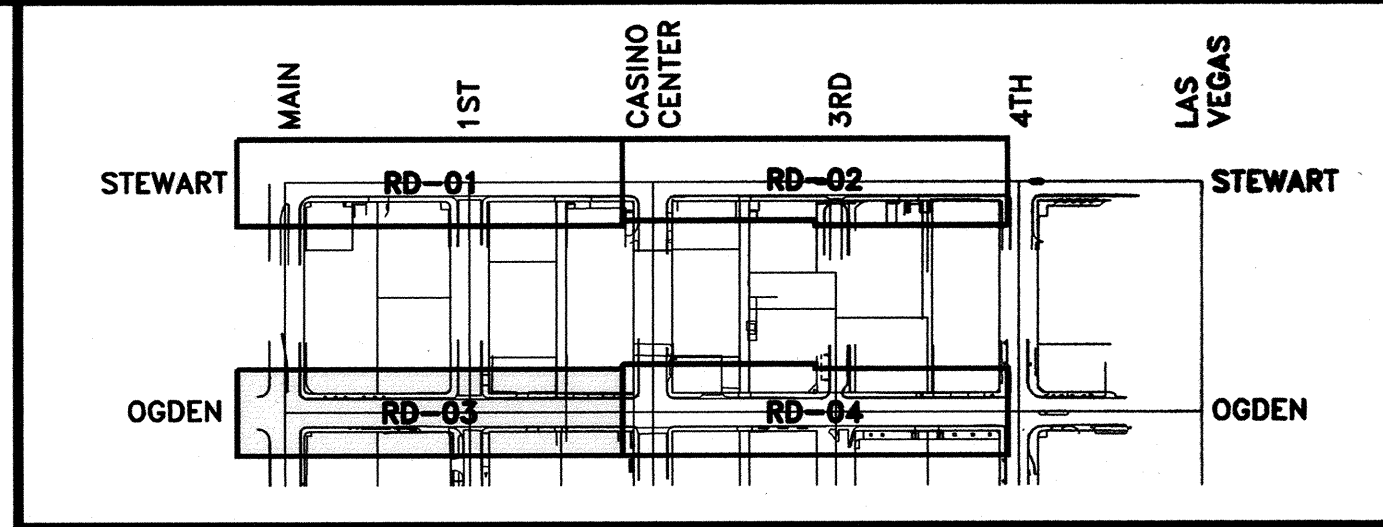
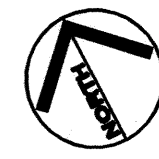
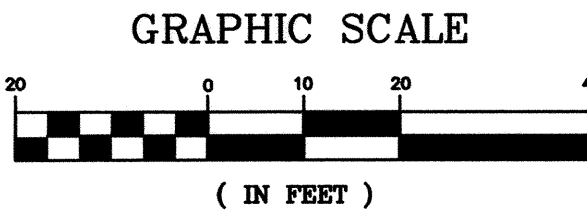
Kimley-Horn
and Associates, Inc.
Engineering, Planning, and Environmental Consultants
6871 Las Vegas Blvd. S., Suite 320,
Las Vegas, NV 89119
PH: (702) 885-3600



MATCHLINE ~ STA 43+00
SEE ABOVE RIGHT



MATCHLINE ~ STA 47+00
SEE SHEET RD-04



GENERAL NOTES

- ALL STATIONS AND OFFSETS ARE BASED ON CONTROL LINE.
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ELEVATION 611.087 METERS - PUBLISHED
ELEVATION COMPUTED 2004.87 U.S. SURVEY FEET -

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DEMOLITION NOTES

- ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE
- REMOVE EXISTING CURB AND GUTTER
- SAWCUT AND REMOVE ASPHALT PAVEMENT TO EXISTING GUTTER
- REMOVE EXISTING LANDSCAPE TREES/SHRUBS, REMOVE AND CAP EXISTING IRRIGATION LINES
- REMOVE EXISTING SIDEWALK
- REMOVE EXISTING VALLEY GUTTER
- REMOVE EXISTING TREE
- ADJUST EXISTING PULL BOX TO FINISHED GRADE

POTHOLE SCHEDULE

UTILITY TYPE	UTILITY DEPTH FT. (TOP)	UTILITY MATERIAL
1	WATER	3.86 ACP
2	FAST F/O	2.42 PLASTIC
3	GAS	2.02 STEEL
4	WATER	4.56 PLASTIC
5	GAS	3.64 STEEL
6	FAST F/O	1.84 PLASTIC
7	ELECTRIC	2.47 PLASTIC

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 45° 09' 07" WEST, BEING THE LINE BETWEEN GIS MONUMENT 826 AND GIS MONUMENT 876 AS SHOWN ON THE MAP TITLED "RECORD OF SURVEY FOR CLARK COUNTY LAS VEGAS VALLEY GEODETIC CONTROL NETWORK" ON FILE WITH THE CLARK COUNTY RECORDER IN FILE 88, PAGE 53 OF SURVEYS.

VALUES FOR THE MONUMENTS ON NORTH AMERICAN DATUM OF 1983 (NAD83) NEVADA STATE PLANE EAST ZONE (2701) HIGH ACCURACY REFERENCE NETWORK 1994 (HARN) ADJUSTED COORDINATES.

STATE PLANE COORDINATES	PROJECT GROUND COORDINATES
GIS 826	
NORTH 8156442.882 METERS	NORTH 764456.64 U.S. SURVEY FEET
EAST 242030.387 METERS	EAST 94195.69 U.S. SURVEY FEET
GIS 876	
NORTH 8161279.551 METERS	NORTH 780327.62 U.S. SURVEY FEET
EAST 237168.018 METERS	EAST 78240.37 U.S. SURVEY FEET

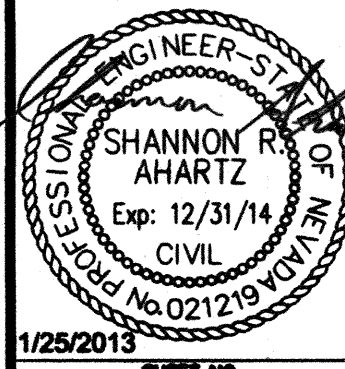
CALL SOUTHWEST GAS
at 365-2296 for Standby
when excavating over or near
HIGH PRESSURE GAS LINES



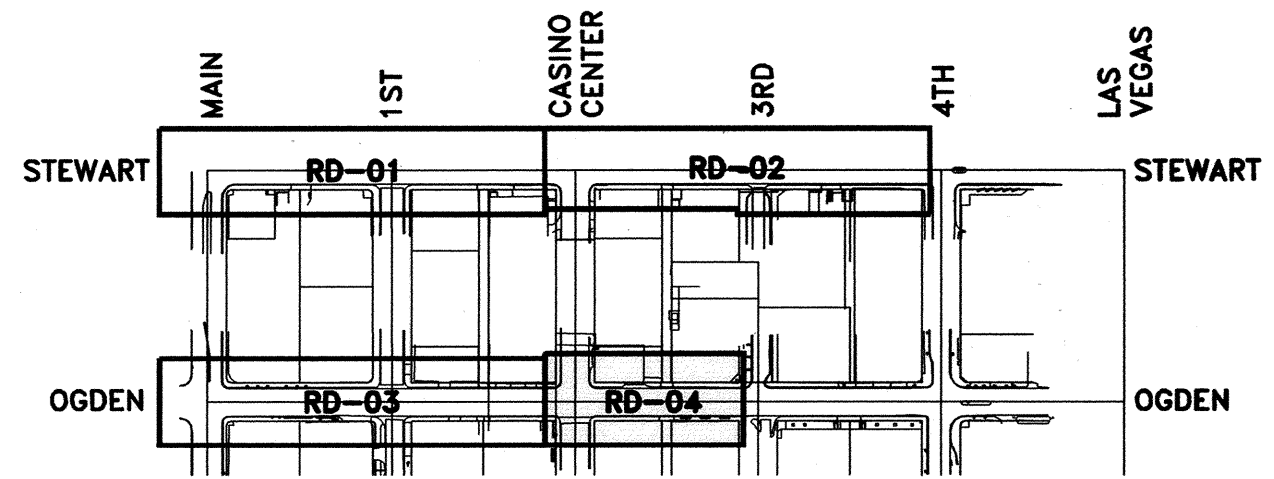
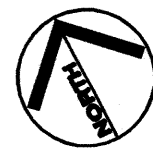
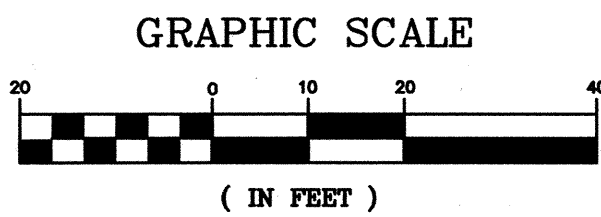
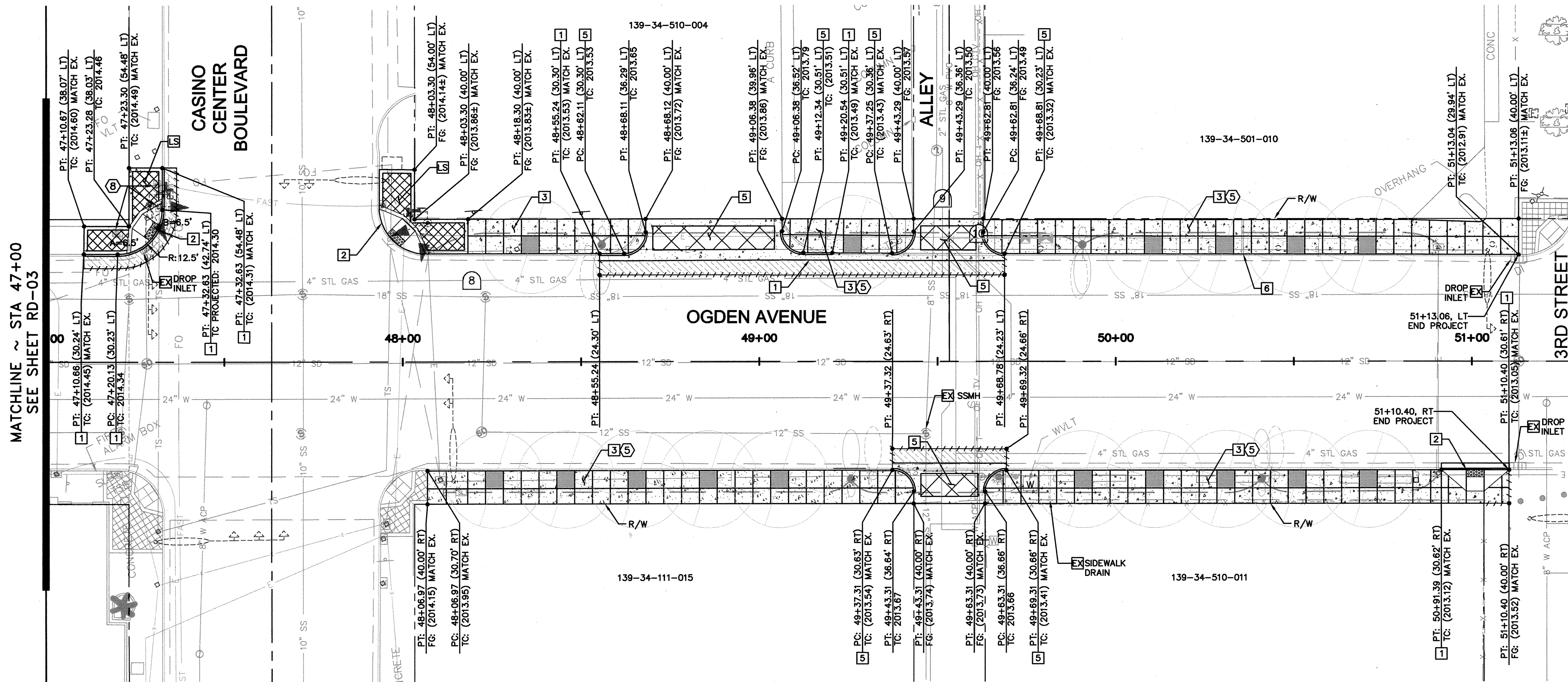
SAFETY ALERT
Before You
Overhead
Call before you dig!

Before You
Underground
Call before you dig!

DEPARTMENT OF PUBLIC WORKS
PROJECT: STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS
SHEET: ROADWAY SHEET



107V5739



GENERAL NOTES

- ALL STATIONS AND OFFSETS ARE BASED ON CONTROL LINE.
- ELEVATIONS, OFFSETS AND GRADES ARE AT BACK OF BENCHMARK, AND BASIS OF BEARING.
- SEE HC SHEETS FOR CENTER LINE INFORMATION, BENCHMARK, AND BASIS OF BEARING.
- ALL EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
- CONTRACTOR TO FIELD VERIFY EXISTING SANITARY SEWER AND STORM DRAIN INVERT ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL MANHOLES, VALVES, VAULTS, ETC. LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE.
- SEE SHEET TY-01 FOR CONDUIT TRENCH PATCH STRUCTURAL SECTION. USE CONDUIT TRENCH PATCH STRUCTURAL SECTION IN AREAS OF CONDUIT INSTALLATION THAT ARE OUTSIDE LIMITS OF FULL PAVEMENT RECONSTRUCTION.
- ALL MAGAZINE RACKS, TRASH RECEPTACLES, AND STREET FURNITURE LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED PRIOR TO SIDEWALK DEMOLITION AND PUT BACK IN PLACE FOLLOWING NEW SIDEWALK INSTALLATION.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING CURB AND GUTTER UNLESS NOTED OTHERWISE. (TYPICAL).

BENCHMARK

THE ELEVATION DATA SHOWN HEREON ARE U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, CITY OF LAS VEGAS BENCHMARKS - 2008 ADJUSTMENT (UPDATED 05/24/2010). STATION "1LV01 34NE6" BEING A RIVET AND PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF STEWART AVE. AND LAS VEGAS BLVD.

ELEVATION 611.087 METERS - PUBLISHED
ELEVATION 2004.87 U.S. SURVEY FEET - COMPUTED

CONSTRUCTION NOTES

- REMOVE EXISTING ROADWAY SECTION AND INSTALL ASPHALTIC PAVEMENT PATCH PER DETAIL SHEET TY-01
- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234
- EXISTING UTILITY, PROTECT IN PLACE
- CONSTRUCT PAVERS PER DETAILS ON LANDSCAPE SHEETS
- CONSTRUCT "L" TYPE CURB AND GUTTER PER CCAUSD No. 216
- CONSTRUCT CASE II SIDEWALK RAMP PER DETAIL SHEET DT-01
- CONSTRUCT CONCRETE SIDEWALK PER CCAUSD No. 234 (SEE LA SHEETS FOR SCORING PATTERN DETAILS)
- CONSTRUCT CONCRETE CROSS GUTTER (8-FOOT) PER CCAUSD No. 228
- CONSTRUCT CONCRETE ALLEY/DRIVEWAY ENTRANCE PER DETAILS, SHEET LA-06
- REMOVE AND REPLACE EXISTING SIDEWALK ROOF DRAIN. REALIGN EXISTING DRAIN AS NECESSARY TO AVOID PROPOSED TREE PITS OR OTHER PROPOSED IMPROVEMENTS.
- REMOVE AND RELOCATE EXISTING PULL BOX

DEMOLITION NOTES

- ADJUST EXISTING MANHOLE RIM TO FINISHED GRADE
- REMOVE EXISTING CURB AND GUTTER
- SAWCUT AND REMOVE ASPHALT PAVEMENT TO EXISTING GUTTER
- REMOVE EXISTING LANDSCAPE TREES/SHRUBS, REMOVE AND CAP EXISTING IRRIGATION LINES
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- REMOVE EXISTING VALLEY GUTTER
- REMOVE EXISTING TREE
- ADJUST EXISTING PULL BOX TO FINISHED GRADE

POTHOLE SCHEDULE		
UTILITY TYPE	UTILITY DEPTH FT. (TOP)	UTILITY MATERIAL
8	GAS 3.22	STEEL
9	GAS 1.70	STEEL
10	ELECTRIC 1.76	PLASTIC

BASIS OF BEARING

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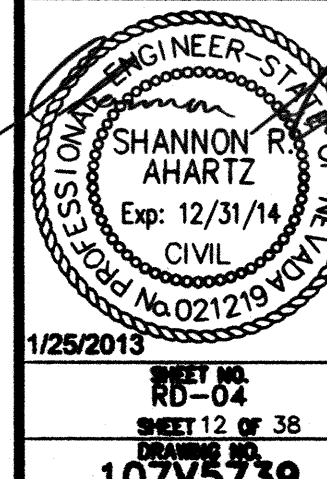
SAFETY ALERT
Call Before You Dig
Before You Overhead
Call before you dig! 702-227-2829



DEPARTMENT OF PUBLIC WORKS

STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS

ROADWAY SHEET



DATE	REVISIONS
JANUARY 2013	NTS
CHECKED BY: PHM	DESIGNED BY: JSM
DRAWN BY: JSM	SCALE (H): NTS
SCALE (V): NTS	SCALE (V): NTS

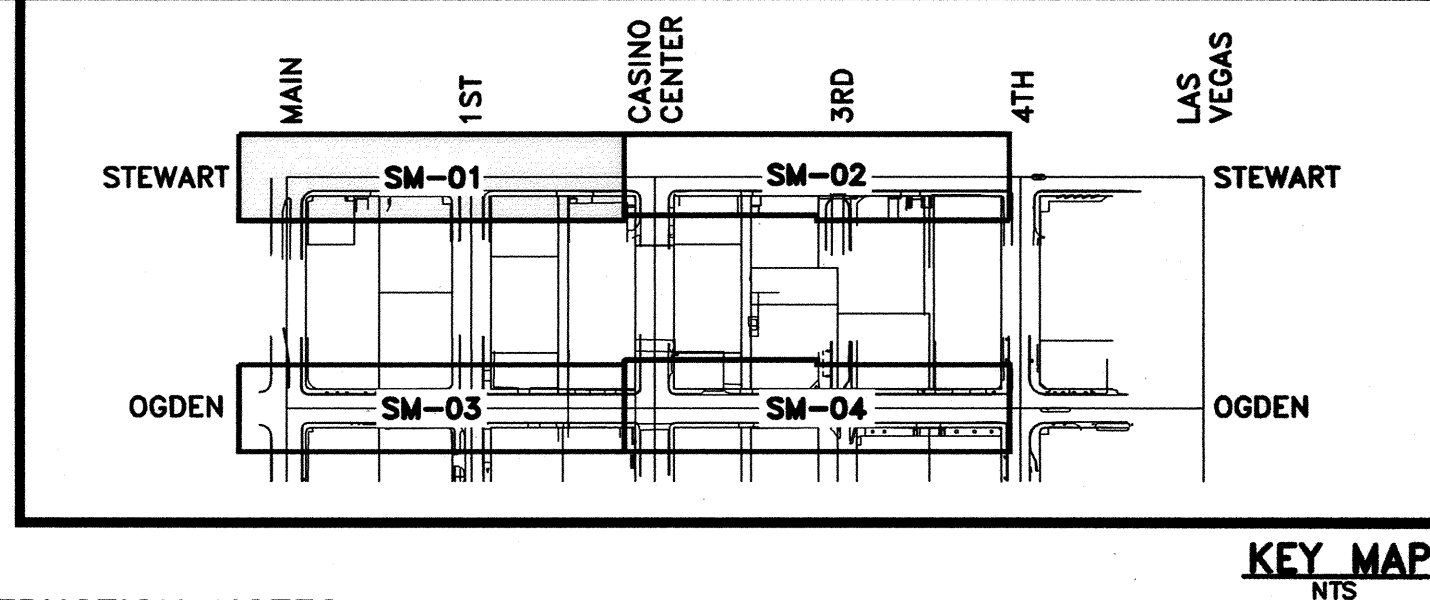
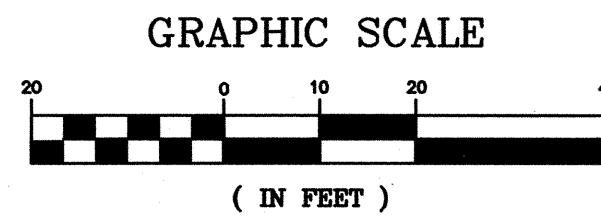
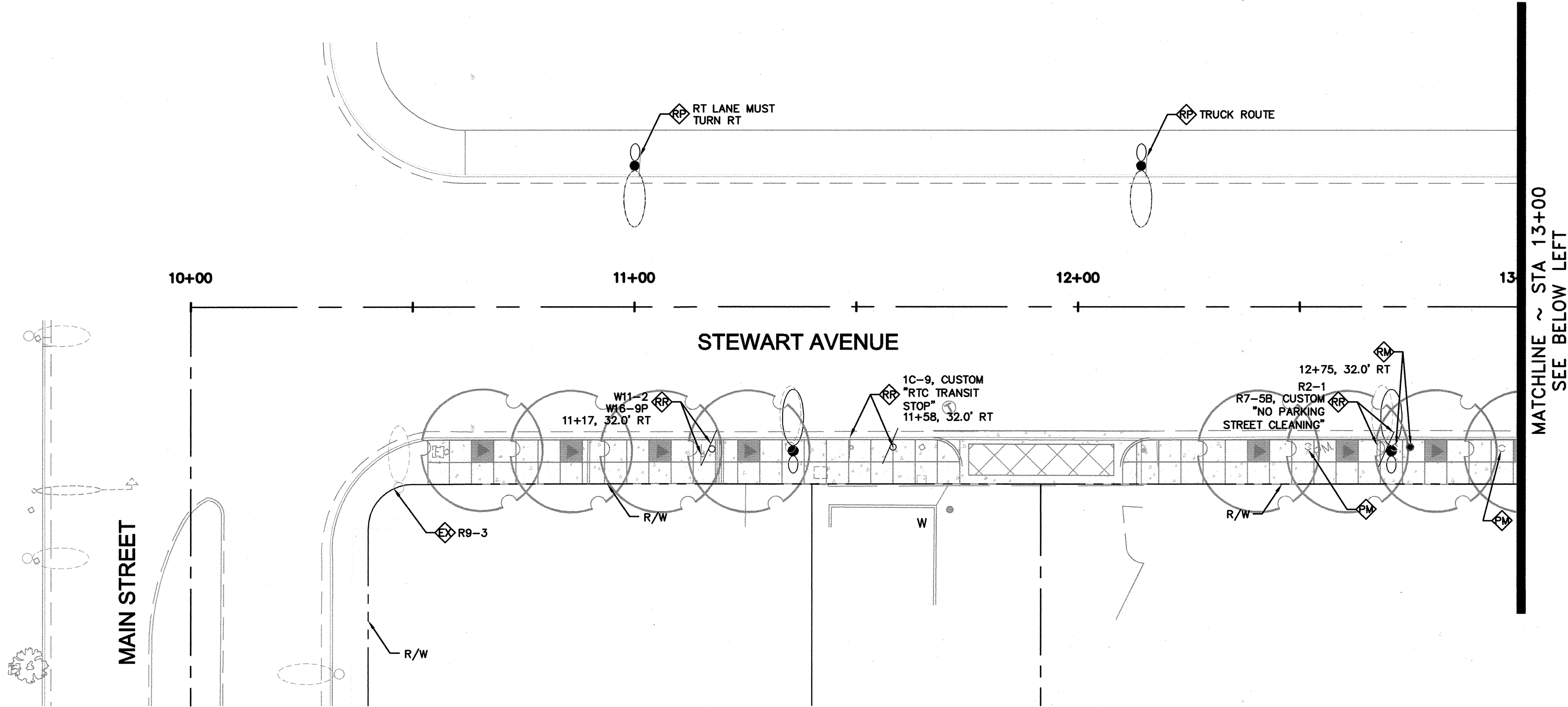
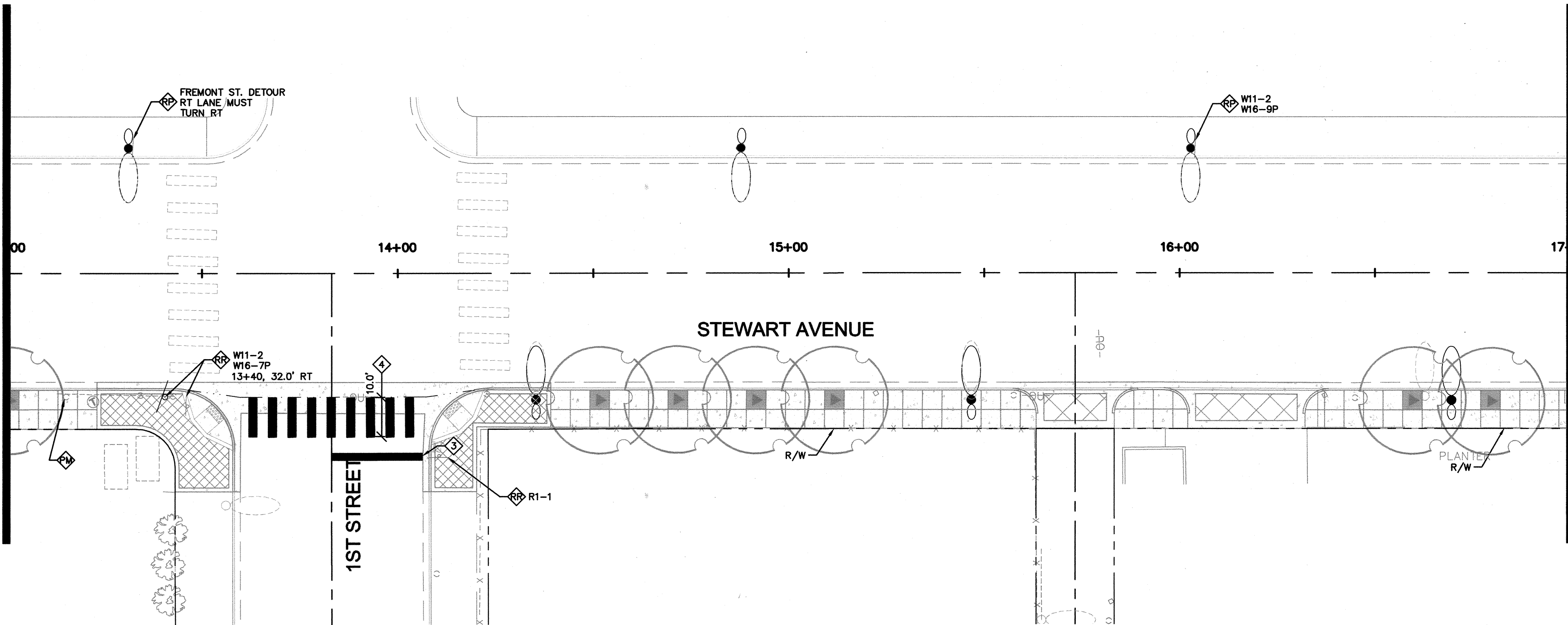
Kimley-Horn
and Associates, Inc.
Engineering, Planning, and Environmental Consultants
6671 Las Vegas Blvd. S., Suite 320,
Las Vegas, NV 89119 PH: 702.882.3000

DATE: JANUARY 2013
CHECKED BY: PHM
DESIGNED BY: JSM
DRAWN BY: JSM
SCALE (H): NTS
SCALE (V): NTS

PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS
SHEET: 107V5739

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MATCHLINE ~ STA 13+00
SEE ABOVE RIGHT



CONSTRUCTION NOTES

- LIMITS OF SLURRY SEAL.
- EXISTING SIGN PANEL SHALL BE REMOVED AND SALVAGED TO CITY OF LAS VEGAS.
- EXISTING PARKING METER SHALL REMAIN, PROTECT IN PLACE.
- REMOVE AND RELOCATE EXISTING PARKING METER POST AND FOUNDATION TO LOCATION SHOWN ON PLANS. METER HEAD SHALL BE REMOVED, AND REINSTALLED BY CITY.
- REMOVE EXISTING SIGN PANEL FROM EXISTING STREETLIGHT POLE AND RELOCATE TO NEW STREETLIGHT POLE. THIS ITEM IS INCIDENTAL TO THE REMOVAL AND REPLACEMENT OF THE STREETLIGHT POLE ITEM.
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- INSTALL 8" (POLYUREA WHITE PAINT) STORAGE LANE LINE PER CCAUSD No. 246.
- INSTALL STOP BAR (WHITE PAVEMENT MARKING FILM) PER CCAUSD No. 254A.
- INSTALL CROSSWALK LINES (WHITE PAVEMENT MARKING FILM) PER CCAUSD No. 254A.
- INSTALL PAVEMENT LEGEND (WHITE PAVEMENT MARKING FILM) PER CCAUSD No. 254A. LEGEND SHALL BE CENTERED IN LANE AS ANNOTATED.
- INSTALL TYPE 1 CENTERLINE (POLYUREA YELLOW PAINT) PER CCAUSD No. 244.
- INSTALL 2' WIDE GORE STRIPING (PAVEMENT MARKING FILM).
- FURNISH AND INSTALL PREFORMED 6"x6" PRESENCE LOOPS AND LOOP LEAD-IN CABLE IN LEFT TURN LANE PER SPECIAL PROVISION 623 AND DETAILS THIS SHEET. ABANDON EXISTING LEFT TURN LANE LOOPS IN PLACE. LOOPS SHALL BE CENTERED IN TRAVEL LANE AND INSTALLED PRIOR TO FINAL SLURRY SEAL PER LOOP TRENCH DETAIL THIS SHEET. INSTALL NEW LOOP LEAD-IN CABLE TO EXISTING TRAFFIC SIGNAL BOX PER CCAUSD No. 827. CONTRACTOR MAY USE EXISTING PVC CONDUIT INTO PULL BOX AND REWIRE IF POSSIBLE.

GENERAL NOTES

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CALL SOUTHWEST GAS
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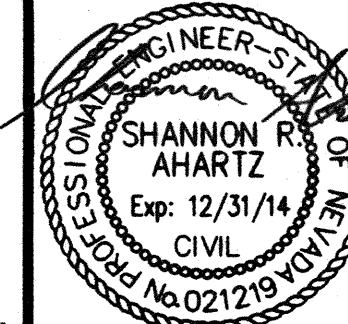
SAFETY ALERT
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DEPARTMENT OF PUBLIC WORKS

PROJECT: STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS

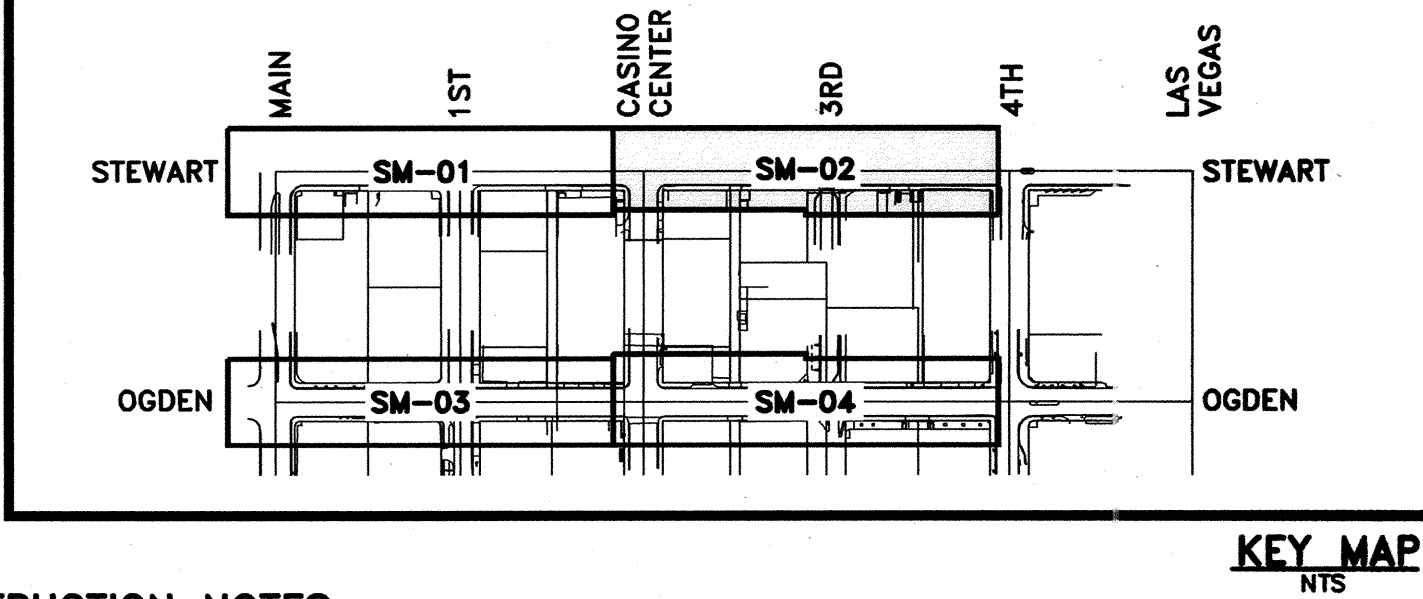
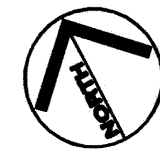
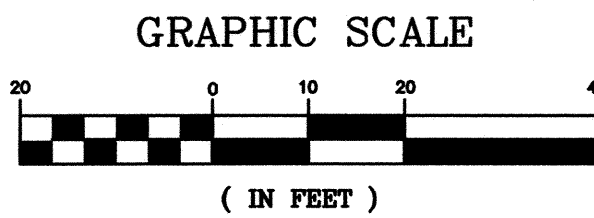
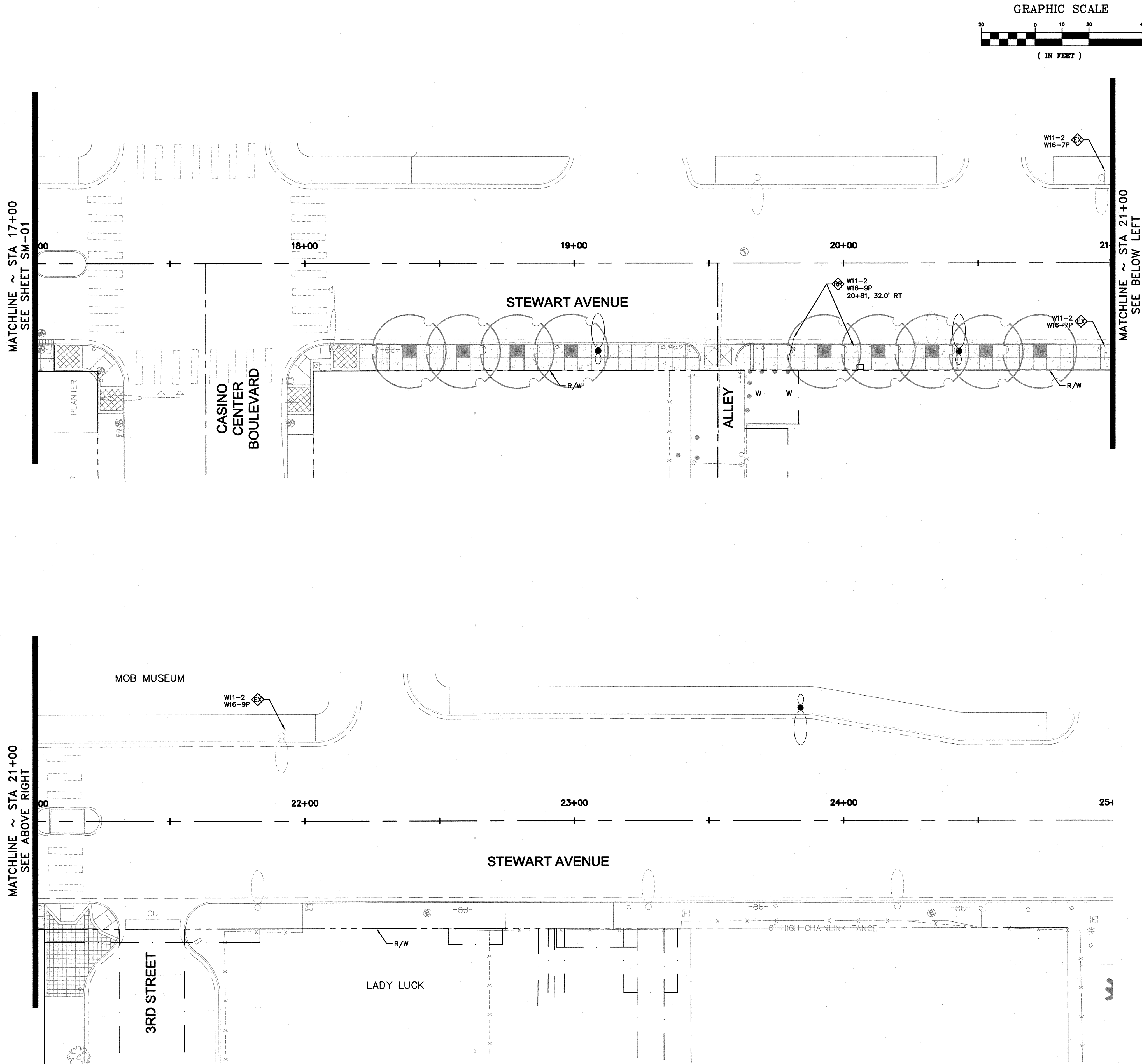
SHEET: SIGNING AND
MARKING



1/25/2013
SHEET NO.
SM-01
SHEET 13 OF 38
107V5739

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CONSTRUCTION NOTES

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15. INSTALL 2' WIDE GORE STRIPING (PAVEMENT MARKING FILM).
16. FURNISH AND INSTALL PREFORMED 6'x6' PRESENCE LOOPS AND LOOP LEAD-IN CABLE IN LEFT TURN LANE PER SPECIAL PROVISION 623 AND DETAILS THIS SHEET. ABANDON EXISTING LEFT TURN LANE LOOPS IN PLACE. LOOPS SHALL BE CENTERED IN TRAVEL LANE AND INSTALLED PRIOR TO FINAL SLURRY SEAL. PER LOOP TRENCH DETAIL THIS SHEET. INSTALL NEW LOOP LEAD-IN CABLE TO EXISTING TRAFFIC SIGNAL BOX PER CCAUSD No. 827. CONTRACTOR MAY USE EXISTING PVC CONDUIT INTO PULL BOX AND REWIRE IF POSSIBLE.

GENERAL NOTES

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CALL SOUTHWEST GAS
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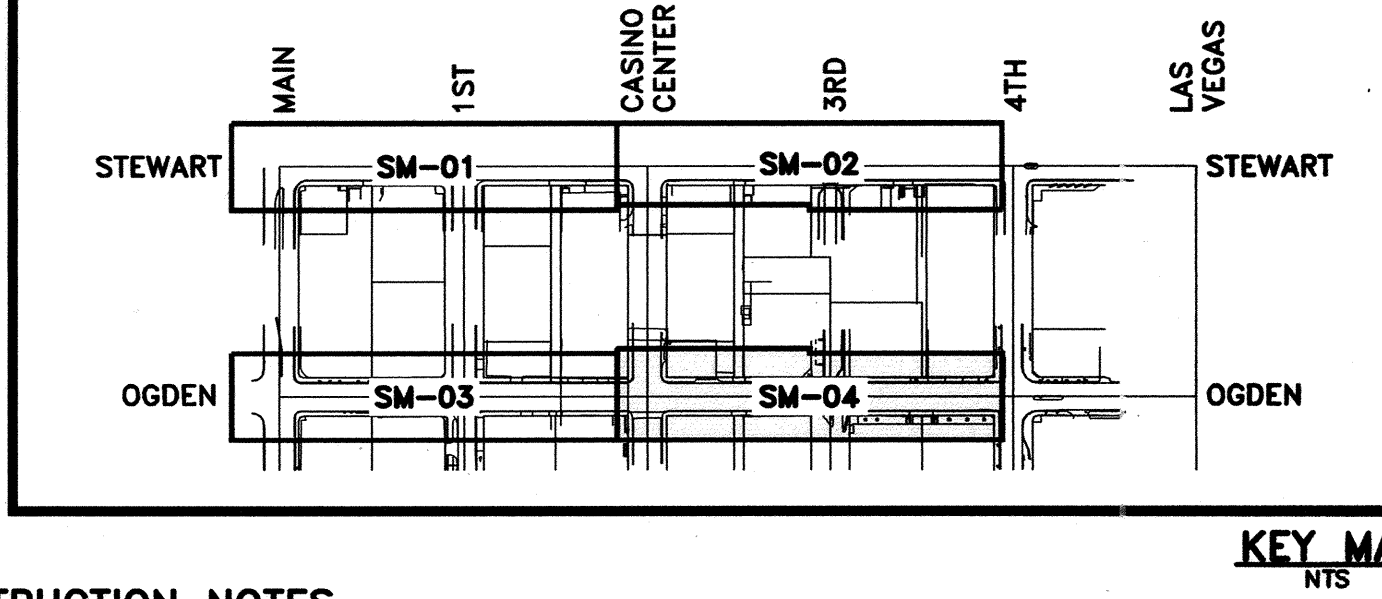
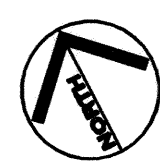
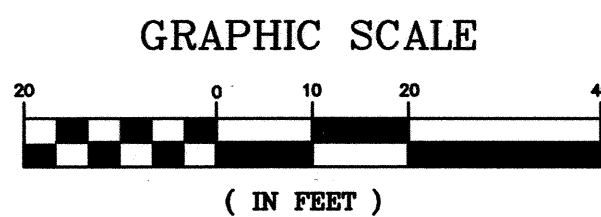
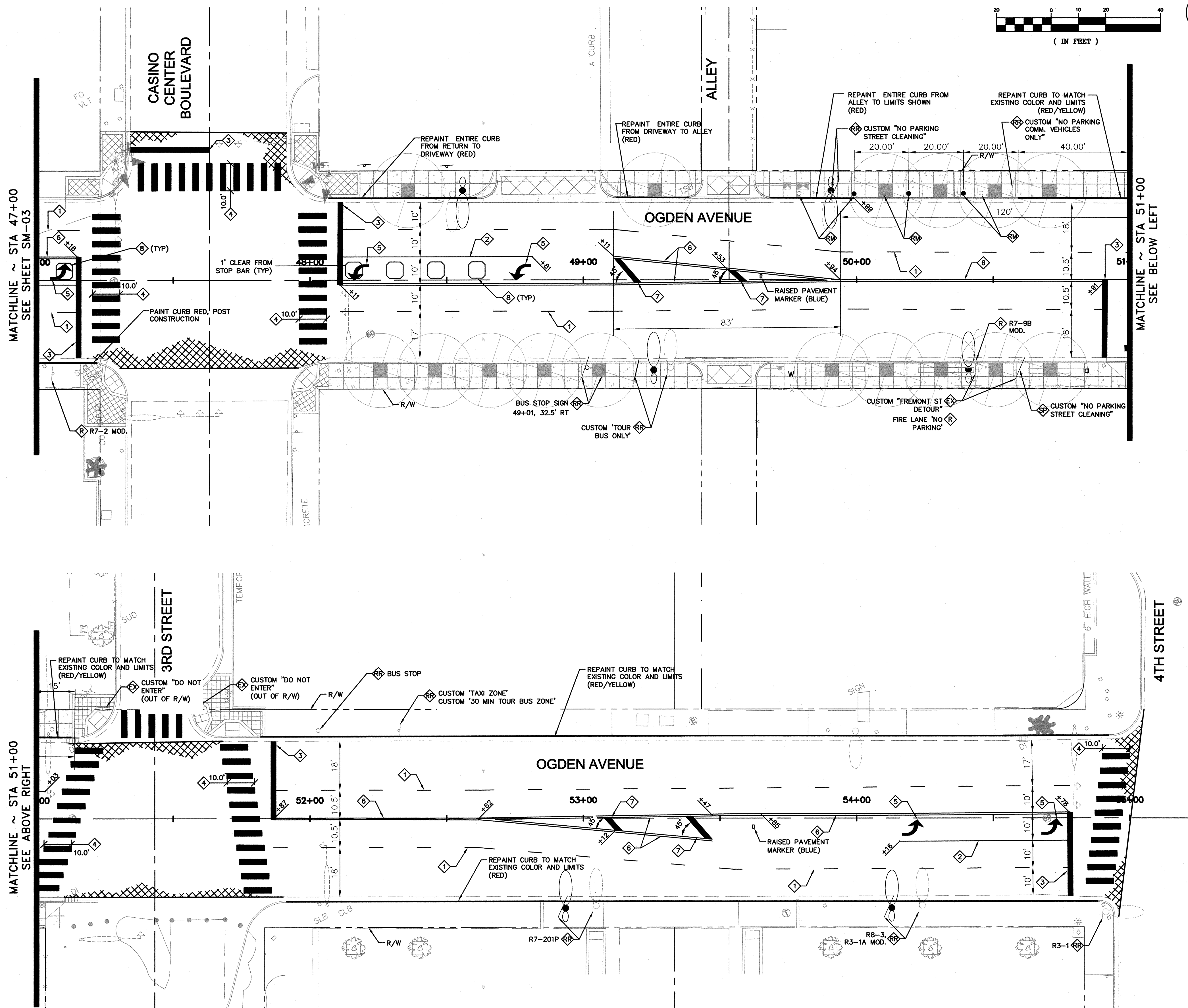
811
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SAFETY ALERT
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Underground
1-702-432-5300

DATE: _____	
REVISIONS: _____	
SCALE (H): NTS	SCALE (V): NTS
DRAWN BY: MSN	DESIGNED BY: MSN
DATE: JANUARY 2013	
CHECKED BY: PNM	
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Kimley-Horn and Associates, Inc. Engineering, Planning, and Environmental Consultants 6871 Las Vegas Blvd. S., Suite 320, Las Vegas, NV 89119 PH: (702) 882-3500	
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS	
SHEET: SIGNING AND MARKING	
SHEET NO. SM-02	
SHEET 14 OF 38	
107V5739	

MATCHLINE ~ STA 47+00
SEE SHEET SM-03

MATCHLINE ~ STA 51+00
SEE ABOVE RIGHT

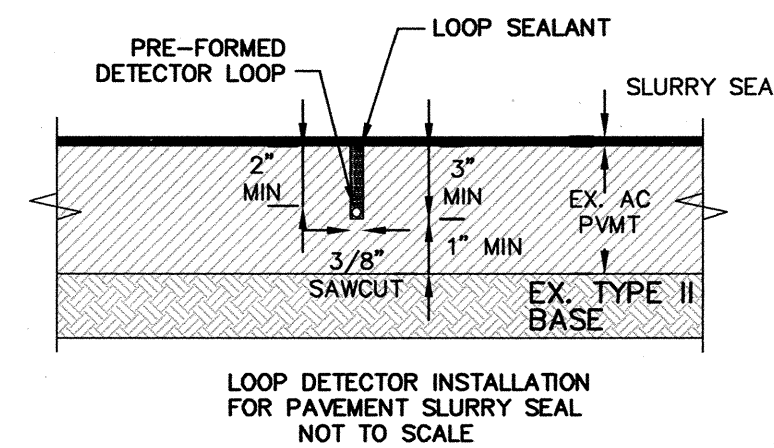
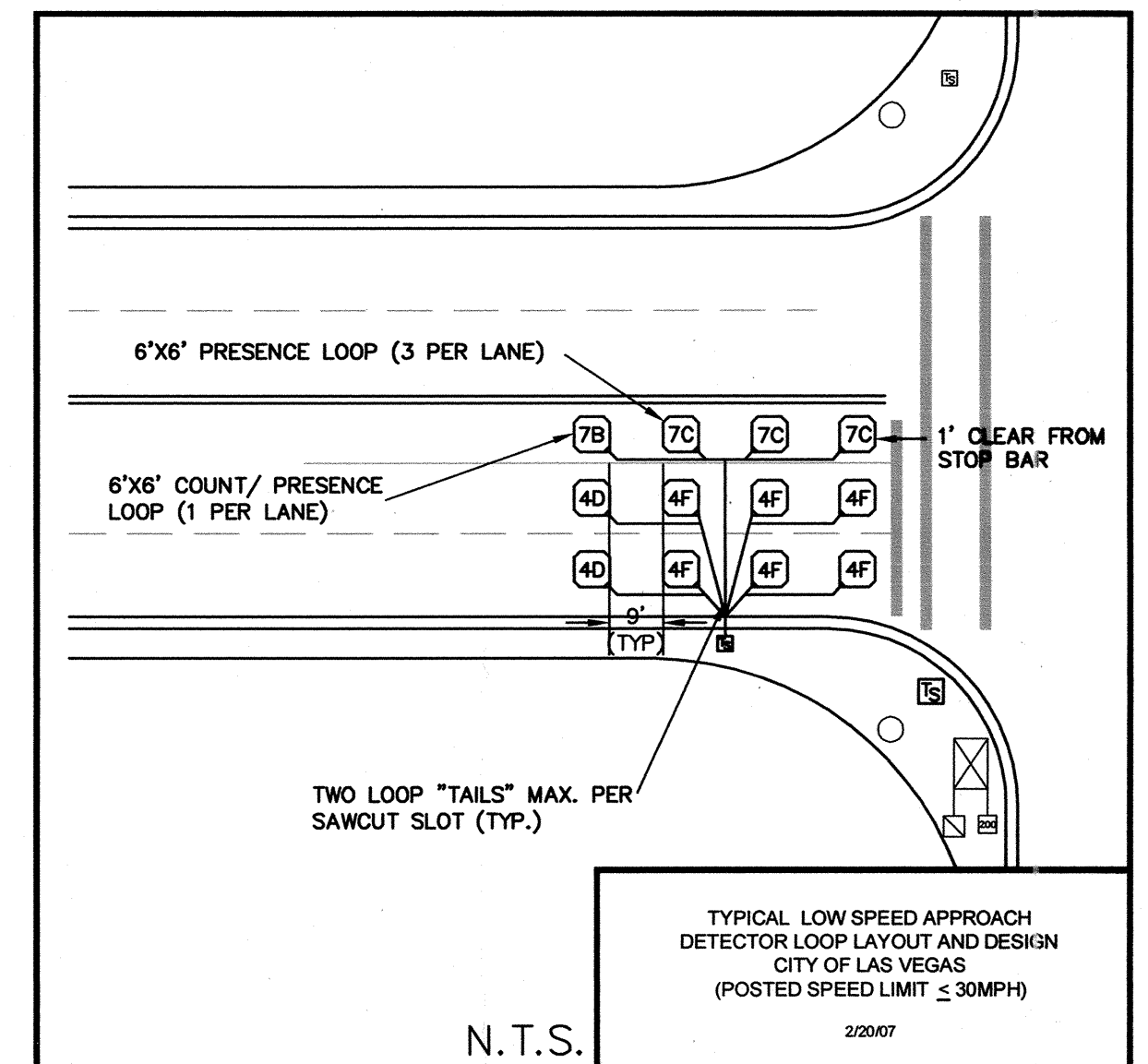


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DEPARTMENT OF PUBLIC WORKS

STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS

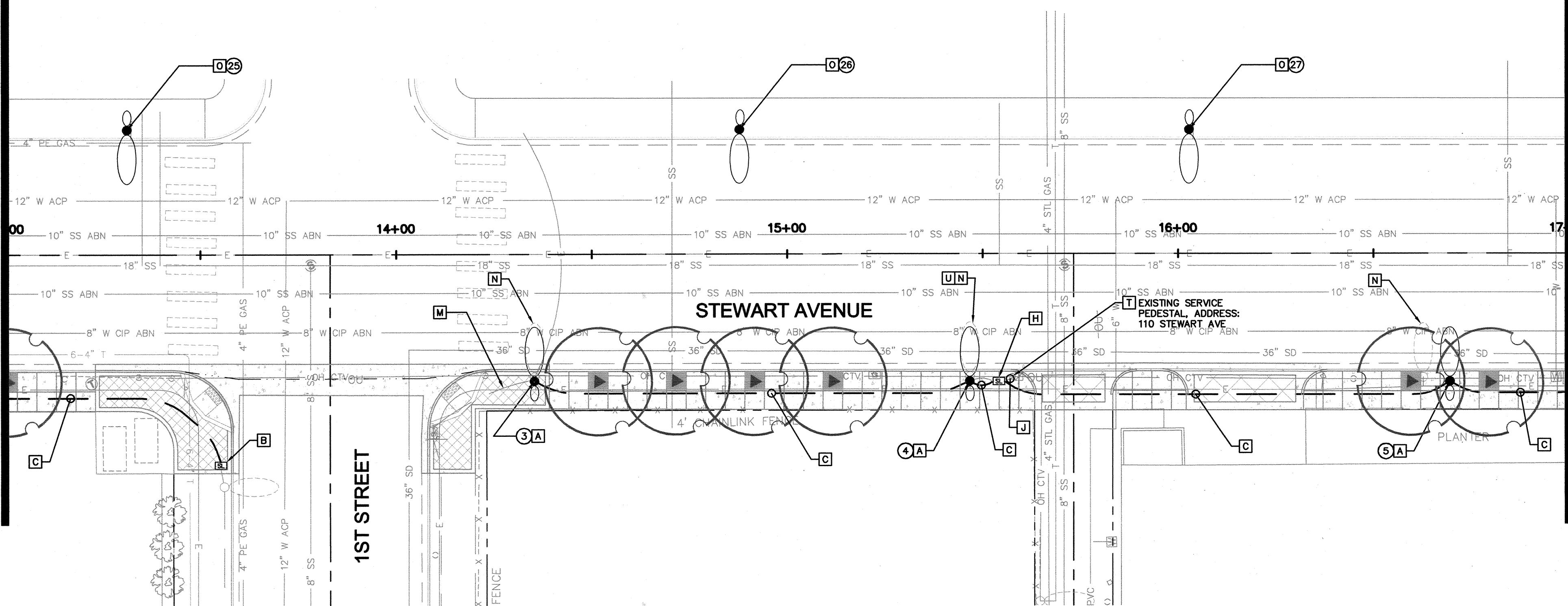
SIGNING AND
MARKING

SHANNON R. AHARTZ
Exp: 12/31/14
CIVIL
No. 021219 (NV)

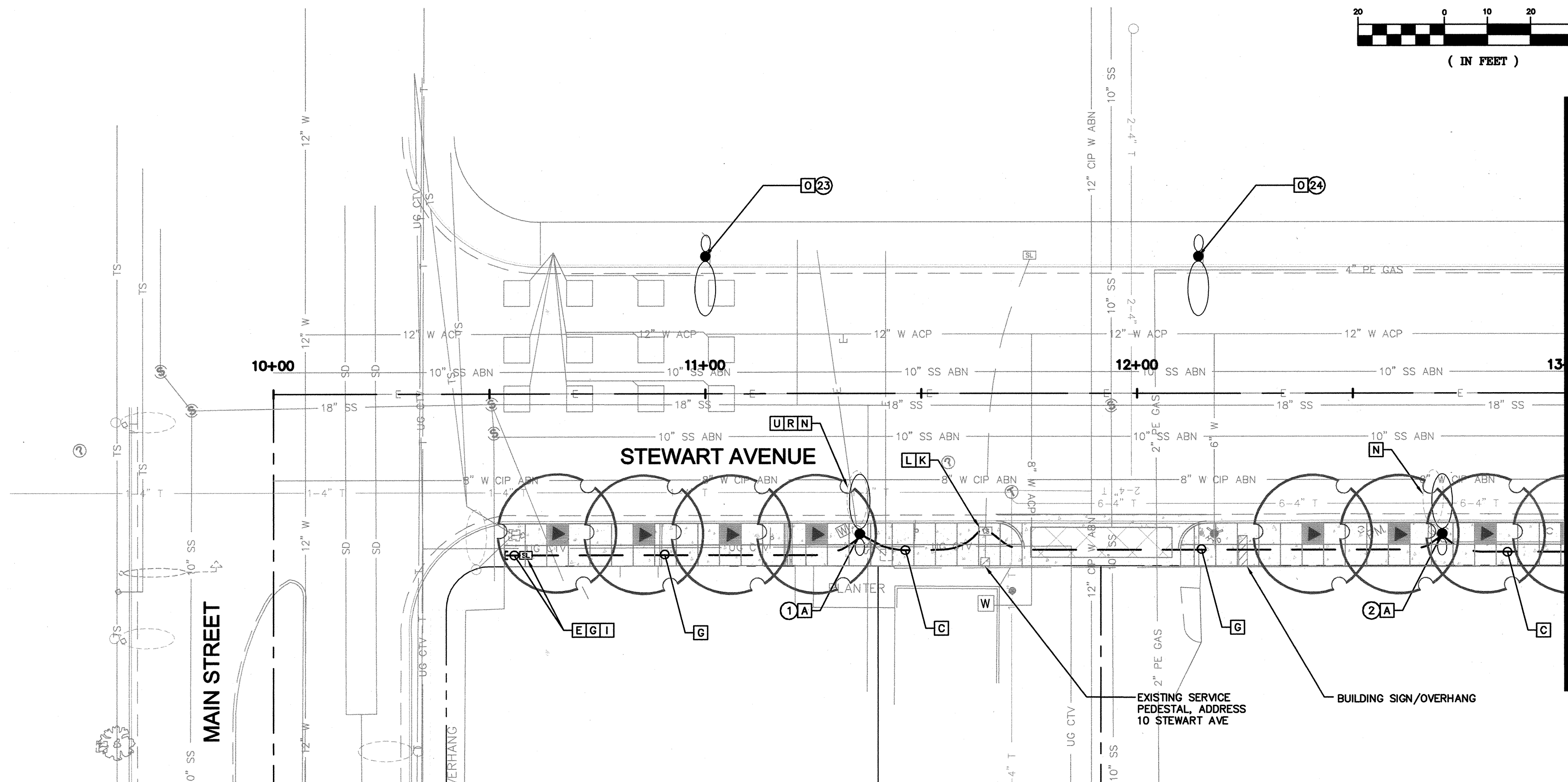
1/25/2013
SM-04
SHEET 15 OF 38
107V5739

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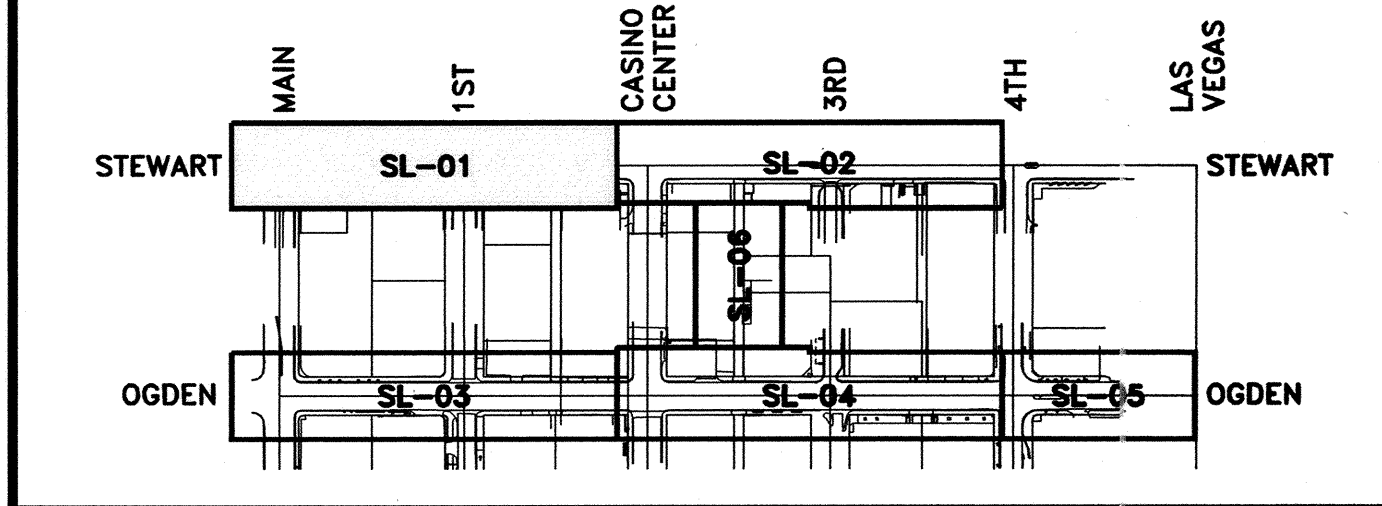
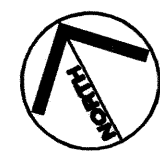
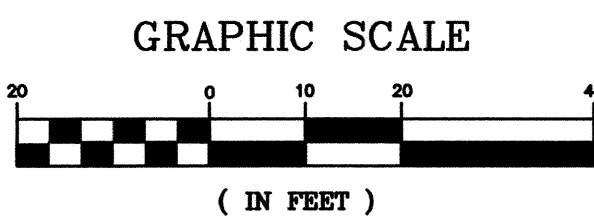
MATCHLINE ~ STA 13+00
SEE ABOVE RIGHT



MATCHLINE ~ STA 17+00
SEE SHEET SL-02



MATCHLINE ~ STA 13+00
SEE BELOW LEFT



KEY MAP
NTS

**STREETLIGHT AND ELECTRICAL SERVICE
CONSTRUCTION NOTES**

- [A] INSTALL DUAL ARM STREETLIGHT ASSEMBLY AND FOUNDATION (SEE DETAILS, SHEET SL-07). SEE PLANS FOR STREET LIGHT CIRCUIT CONNECTIVITY.
- [B] INTERCEPT EXISTING STREET LIGHTING CONDUIT. FURNISH AND INSTALL No. 3 1/2 PULL BOX MARKED "STREETLIGHT" PER CCAUSD No. 705. BACK PULL EXISTING CONDUCTORS TO NEAREST POLE OR PULL BOX. PULL NEW CONDUCTORS TO POLE(S) OR PULL BOX AND SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS IN POLE BASE OR PULL BOX TO MAINTAIN EXISTING CIRCUITS.
- [C] FURNISH AND INSTALL 1-2" PVC CONDUIT WITH 2-#4 (BLACK +, RED -) THW AND 1-#8 THW (GREEN GROUND) STREET LIGHTING CONDUCTORS.
- [D] FURNISH AND INSTALL No. 3 1/2 PULL BOX MARKED "STREETLIGHT" PER CCAUSD No. 705.
- [E] EXTEND CONDUIT 3' FROM POLE FOUNDATION OR PULL BOX, CAP AND SEAL CONDUIT.
- [F] FURNISH AND INSTALL 2-#4 (1-BLACK +, 1-RED -) THW AND 1-#8 THW (GREEN GROUND) STREET LIGHTING CONDUCTORS IN EXISTING CONDUIT. REMOVE EXISTING STREET LIGHTING CONDUCTORS FOR CIRCUIT BEING REPLACED.
- [G] FURNISH AND INSTALL 1-2" PVC CONDUIT WITH 1-#8 GROUND/TRACER WIRE AND PULL ROPE.
- [H] INTERCEPT EXISTING STREET LIGHTING CONDUIT, FURNISH AND INSTALL No. 3 1/2 PULL BOX MARKED "STREET LIGHT" PER CCAUSD No. 705.
- [I] FURNISH AND INSTALL No. 5 PULL BOX MARKED "STREETLIGHT" PER CCAUSD No. 706 AT LOCATION OF POLE REMOVAL.
- [J] REPLACE EXISTING STREET LIGHTING CONDUCTORS BETWEEN PULL BOX AND EXISTING SERVICE WITH 2-#4 (BLACK +, RED -) THW AND 1-#8 (GREEN GROUND) NEW STREET LIGHTING CONDUCTORS.
- [K] INTERCEPT EXISTING PULL BOX AND INSTALL NEW CONDUIT(S).
- [L] MAINTAIN EXISTING CONNECTIONS AND/OR SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN PULL BOX.
- [M] BACK PULL EXISTING CONDUCTORS TO NEAREST POLE, PULL NEW CONDUCTORS TO POLE AND SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS IN POLE BASE.
- [N] REMOVE AND SALVAGE EXISTING STREETLIGHT POLE AND EQUIPMENT. REMOVE POLE FOUNDATION TO 24" BELOW FINISHED GRADE. CONTRACTOR SHALL ABANDON EXISTING OVERHEAD INTERCONNECT CONDUCTOR ON EXISTING POLES ON THE NORTH SIDE OF OGDEN AVENUE BETWEEN MAIN STREET AND 1ST STREET.
- [O] REMOVE AND SALVAGE EXISTING POLE AND EQUIPMENT. INSTALL DUAL STREETLIGHT ASSEMBLY (SEE DETAILS, SHEET SL-07) ON EXISTING FOUNDATION.
- [P] INSTALL SINGLE ARM STREETLIGHT ASSEMBLY AND FOUNDATION (SEE DETAILS, SHEET SL-07). SEE PLANS FOR STREET LIGHT CIRCUIT CONNECTIVITY.
- [Q] SEE CONDUIT TRENCH IN PAVEMENT DETAIL, (SHEET SL-07).
- [R] CONTRACTOR SHALL REMOVE EXISTING RROC CONTACTOR FROM EXISTING STREETLIGHT POLE. CONTRACTOR SHALL RE-CIRCUIT THIS STREETLIGHT TO CIRCUIT B (STREETLIGHTS ON NORTH SIDE OF STREET).
- [S] CONTRACTOR SHALL REMOVE EXISTING RROC FROM EXISTING STREETLIGHT POLE AND INSTALL NEW CONTACTOR FOR EXISTING CIRCUIT IN EXISTING SERVICE PEDESTAL FOR THAT CIRCUIT.
- [T] EXISTING POLE MOUNTED STREETLIGHT SERVICE WILL BE REMOVED AND REPLACED WITH GROUND MOUNTED SERVICE PEDESTAL BY CLV STAFF. CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTACTOR FOR THIS STREETLIGHT CIRCUIT.
- [U] CONTRACTOR SHALL FURNISH AND INSTALL PHOTOELECTRIC CONTROL UNIT (PEU) ON TOP OF NEW POLE. INSTALL WIRING FROM PEU TO SERVICE PEDESTAL. INSTALL 15 AMP BREAKER IN PEDESTAL, SEE USDOCC DRAWING NO. 335.52 FOR REQUIREMENTS.

STREETLIGHT GENERAL NOTES

- 1. ALL STREETLIGHT EQUIPMENT THAT IS TO BE SALVAGED SHALL BE RETURNED TO THE CLV EAST SERVICE YARD. PROVIDE 24 HOUR NOTICE PRIOR TO DELIVERY. CALL 702-229-6331 TO SCHEDULE DELIVERY TIME. CONTRACTOR MUST HAVE A MEANS TO UNLOAD EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EQUIPMENT AND MATERIALS INCURRED IN THIS PROCESS.

(XX) STREET LIGHT POLE ID NUMBER (SEE SHEET SL-06).

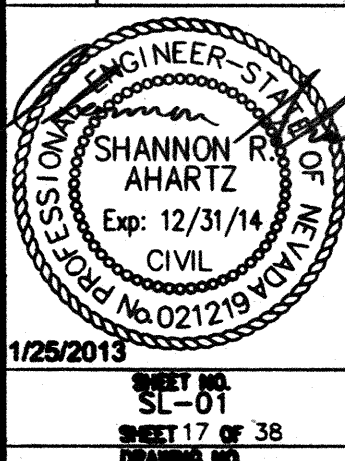
CALL SOUTHWEST GAS
at 365-2296 for Standby
when excavating over or near
HIGH PRESSURE GAS LINES



SAFETY ALERT
Call Before You Dig
Before You Overhead
Call before you dig! 702-227-2829

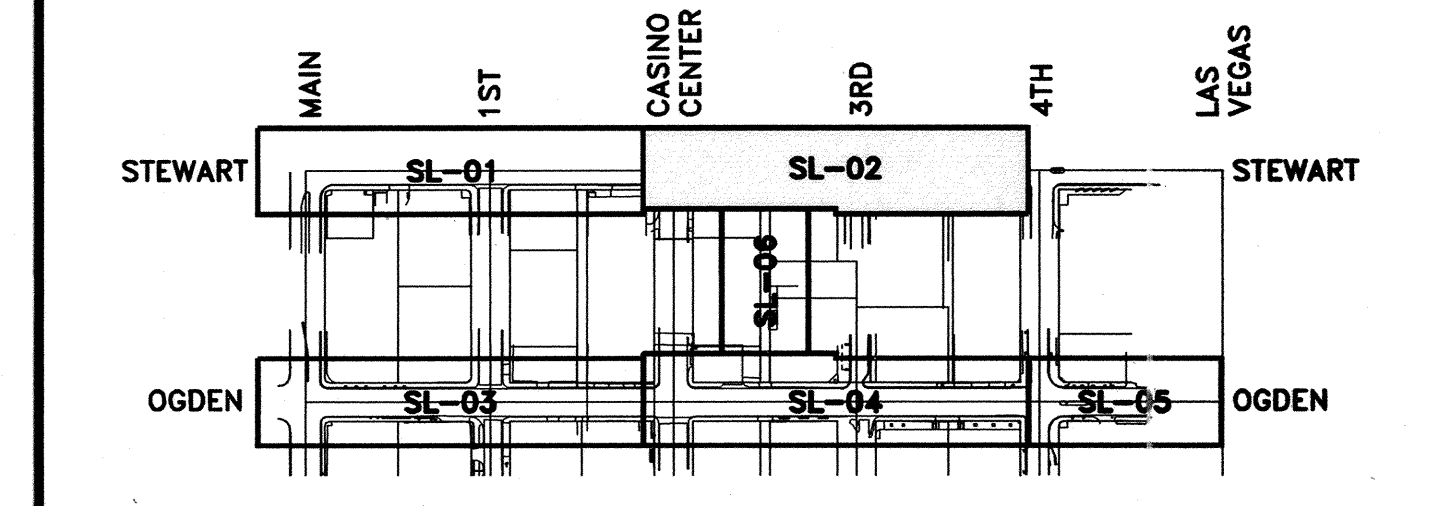
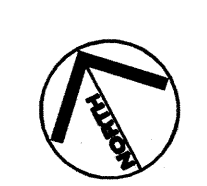


DEPARTMENT OF PUBLIC WORKS
PROJECT: STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS
SHEET: STREETLIGHT SHEET



1/25/2013
SHEET NO. SL-01
SHEET 17 OF 38
107V5739

DATE	REVISIONS
DATE: JANUARY 2013	CHECKED BY: PMH
SCALE (P): NTS	DESIGNED BY: MSN
SCALE (V): NTS	DRAWN BY: MSN
Kimley-Horn and Associates, Inc. Engineering, Planning, and Environmental Consultants 6871 Las Vegas Blvd. S., Suite 320, Las Vegas, NV 89119 PH: (702) 442-3600	



KEY MAP
NTS

- [A] INSTALL DUAL ARM STREETLIGHT ASSEMBLY AND FOUNDATION (SEE DETAILS, SHEET SL-07). SEE PLANS FOR STREET LIGHT CIRCUIT CONNECTIVITY.
- [B] INTERCEPT EXISTING STREET LIGHTING CONDUIT. FURNISH AND INSTALL No. 3/4 PULL BOX MARKED "STREETLIGHT" PER CCAUSD No. 705. BACK PULL EXISTING CONDUCTORS TO NEAREST POLE OR PULL BOX, PULL NEW CONDUCTORS TO POLE(S) OR PULL BOX AND SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS IN POLE BASE OR PULL BOX TO MAINTAIN EXISTING CIRCUITS.
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- [Q] SEE CONDUIT TRENCH IN PAVEMENT DETAIL, (SHEET SL-07).
- [R] CONTRACTOR SHALL REMOVE EXISTING ROC CONTACTOR FROM EXISTING STREETLIGHT POLE. CONTRACTOR SHALL RE-CIRCUIT THIS STREETLIGHT TO CIRCUIT B (STREETLIGHTS ON NORTH SIDE OF STREET).
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- [T] EXISTING POLE MOUNTED STREETLIGHT SERVICE WILL BE REMOVED AND REPLACED WITH GROUND MOUNTED SERVICE PEDESTAL BY CLV STAFF. CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTACTOR FOR THIS STREETLIGHT CIRCUIT.
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(XX) STREET LIGHT POLE ID NUMBER (SEE SHEET SL-06).

**CALL SOUTHWEST GAS
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know what's below
Call before you dig

SAFETY ALERT
Call
Before You
Overhead

Call before you dig

Avoid hitting underground electric, gas, water, sewer and street light cables by calling first.

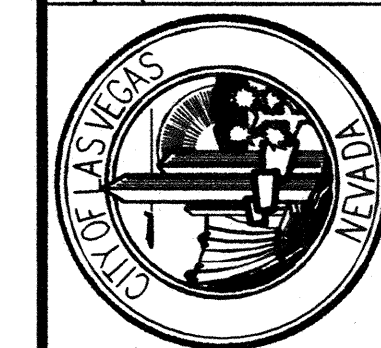
CALL BEFORE YOU DIG UNDERGROUND

UnderGround

1-702-432-5383

DEPARTMENT OF PUBLIC WORKS

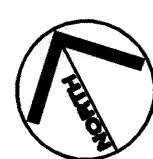
**STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS**



SCALE (N): NTS	DATE: JANUARY 2013
SCALE (N): NTS	CHECKED BY: PMA
DESIGNED BY: MSM	© 2013
DRAWN BY: MSM	

[illegible]

1/25/2013
SHEET NO.
SL-02
SHEET 18 OF 38
DRAWING NO.
107V5739



A INSTALL DUAL ARM STREETLIGHT ASSEMBLY AND FOUNDATION (SEE DETAILS, SHEET SL-07). SEE PLANS FOR STREET LIGHT CIRCUIT CONNECTIVITY.

B INTERCEPT EXISTING STREET LIGHTING CONDUIT. FURNISH AND INSTALL NO. 3/4 PULL BOX MARKED "STREETLIGHT" PER CCAUSD NO. 705. BACK PULL EXISTING CONDUCTORS TO NEAREST POLE OR PULL BOX. PULL NEW CONDUCTORS TO POLE(S) OR PULL BOX AND SPlice NEW CONDUCTORS TO EXISTING CONDUCTORS IN POLE END OR PULL BOX TO MAINTAIN EXISTING CIRCUITS.

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F FURNISH AND INSTALL 2-#4 (1-BLACK +, 1-RED -) THW AND 1-#8 THW (GREEN GROUND) STREET LIGHTING CONDUCTORS IN EXISTING CONDUIT. REMOVE EXISTING STREET LIGHTING CONDUCTORS FOR CIRCUIT BEING REPLACED.

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K INTERCEPT EXISTING PULL BOX AND INSTALL NEW CONDUIT(S).

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Q SEE CONDUIT TRENCH IN PAVEMENT DETAIL, (SHEET SL-07).

R CONTRACTOR SHALL REMOVE EXISTING RCCO CONTRACTOR FROM EXISTING STREETLIGHT POLE. CONTRACTOR SHALL RE-CIRCUIT THIS STREETLIGHT TO CIRCUIT B (STREETLIGHTS ON NORTH SIDE OF STREET).

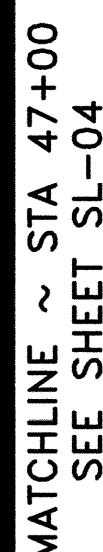
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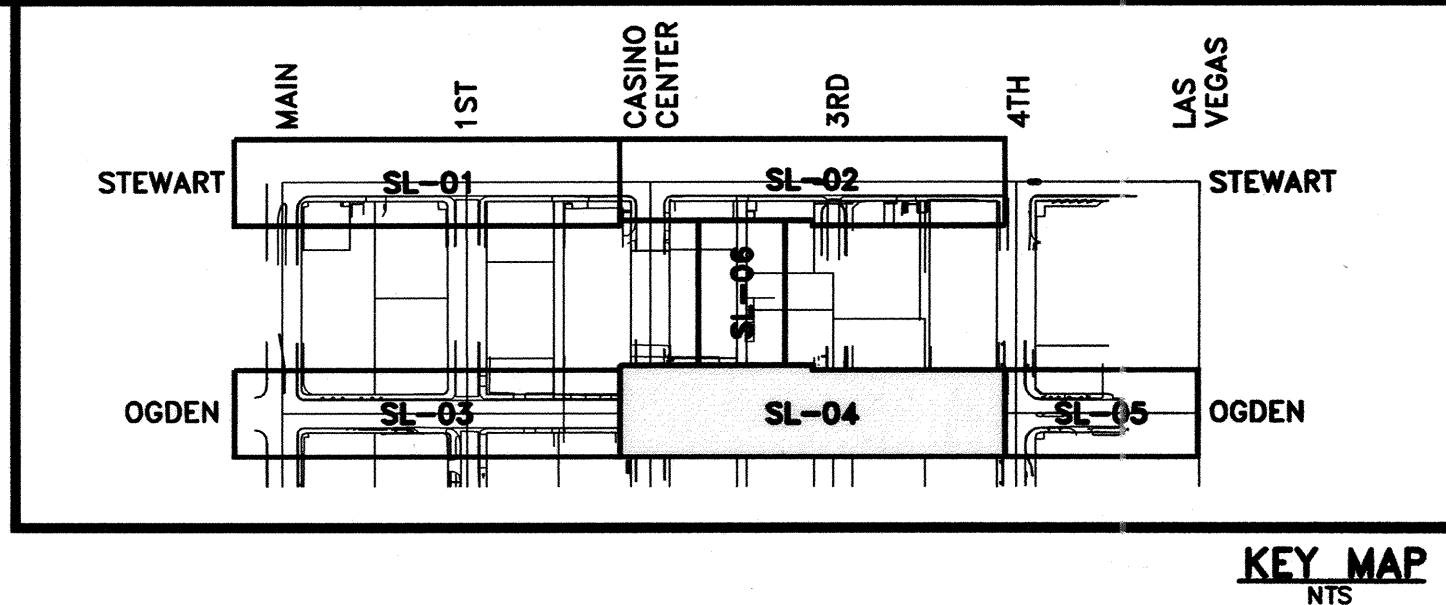
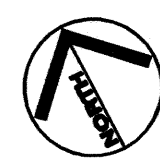
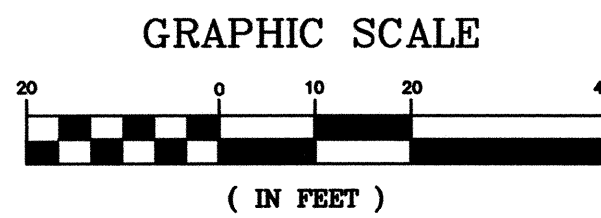
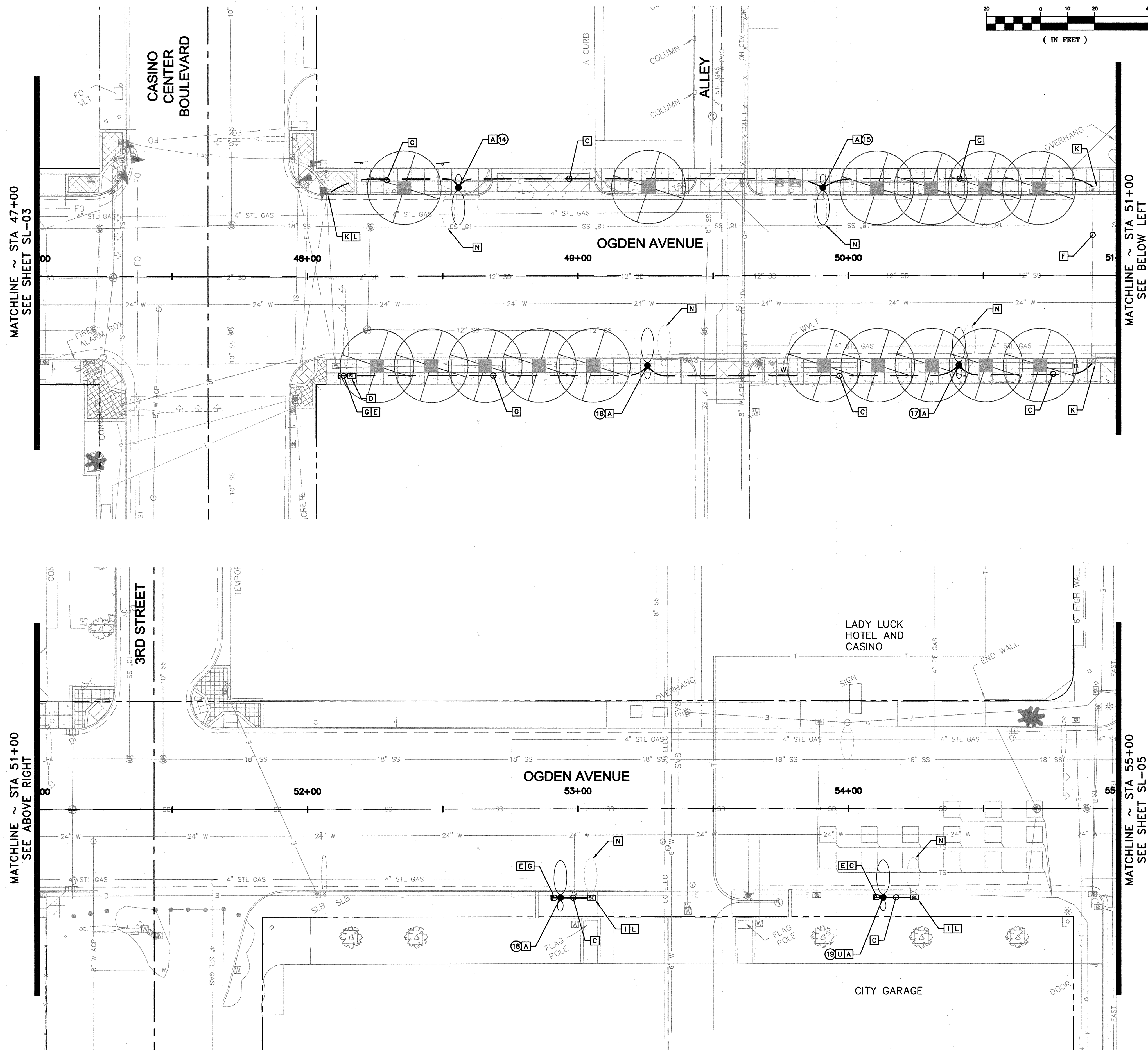
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U CONTRACTOR SHALL FURNISH AND INSTALL PHOTOELECTRIC CONTROL UNIT (PEU) ON TOP OF NEW POLE. INSTALL WIRING FROM PEU TO SERVICE PEDESTAL. INSTALL 15 AMP BREAKER IN PEDESTAL. SEE USDC DRAWING NO. 335.92 FOR REQUIREMENTS.

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(XX) STREET LIGHT POLE ID NUMBER (SEE SHEET SL-06).





STREETLIGHT AND ELECTRICAL SERVICE CONSTRUCTION NOTES

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- FURNISH AND INSTALL No. 3 1/2 PULL BOX MARKED "STREETLIGHT" PER CCAUSD No. 705.
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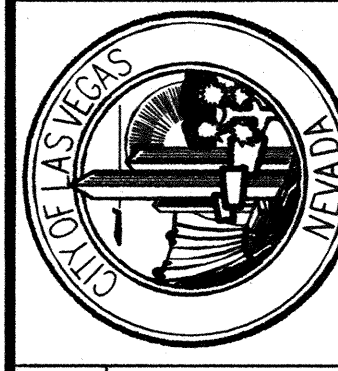
DEPARTMENT OF PUBLIC WORKS

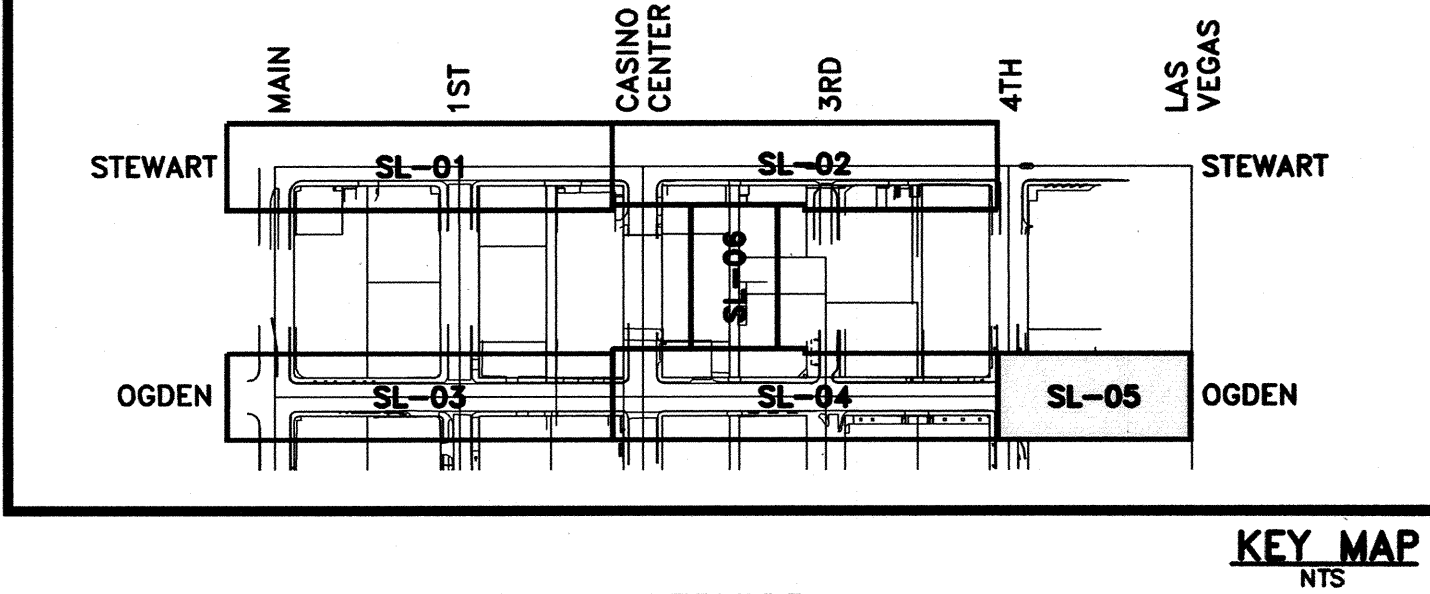
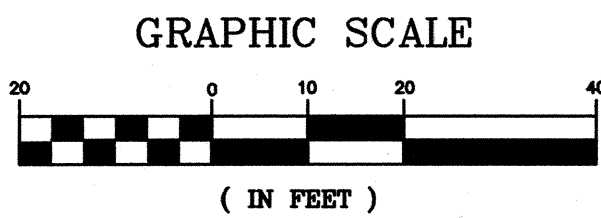
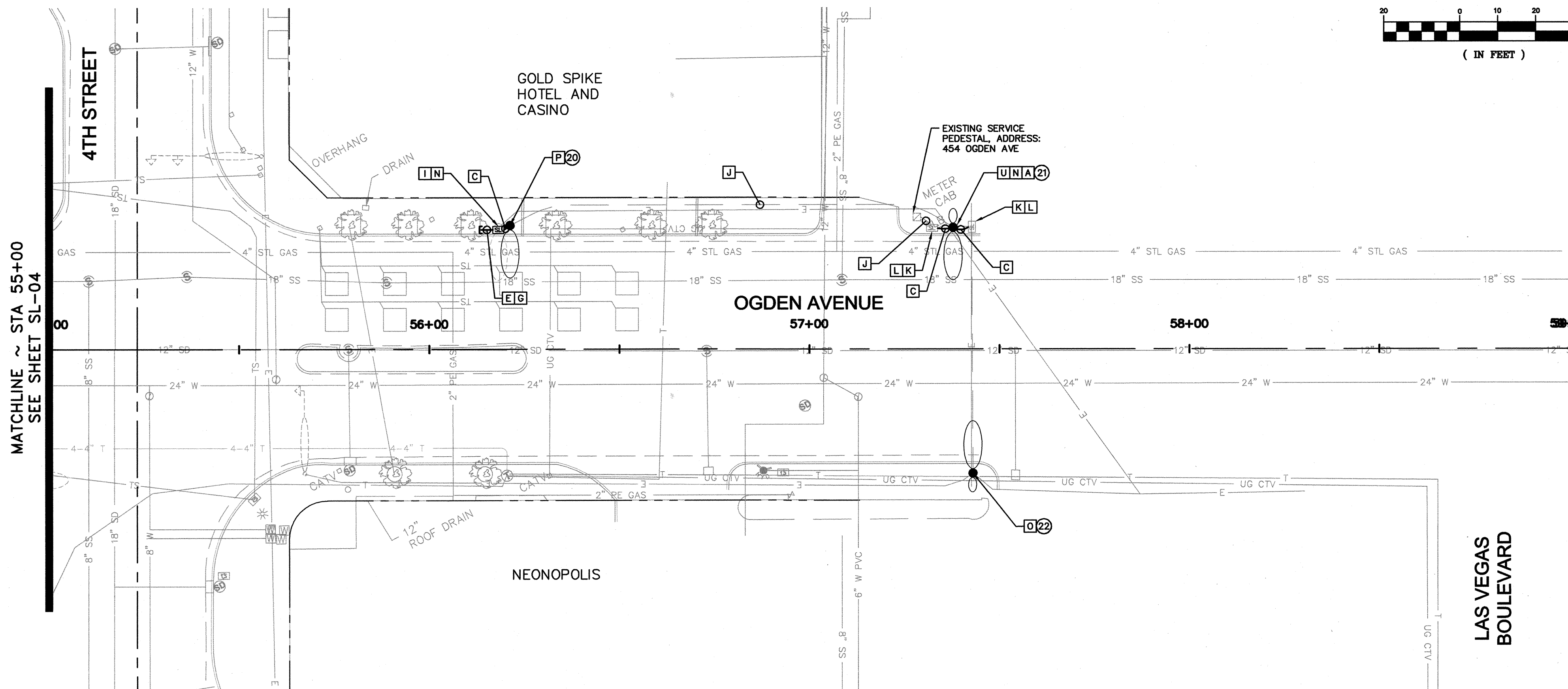
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS
SHEET: STREETLIGHT SHEET

1/25/2013
SHEET NO. SL-04
SHEET 20 OF 38
107V5739

DATE	REVISIONS
DATE: JANUARY 2013	CHECKED BY: PHM
SCALE (H): NTS	DESIGNED BY: MSH
SCALE (V): NTS	DRAWN BY: MSH

Kimley-Horn and Associates, Inc.
Engineering, Planning, and Environmental Consultants
6871 Las Vegas Blvd. S., Suite 320,
Las Vegas, NV 89119 PH: (702) 432-3600





**STREETLIGHT AND ELECTRICAL SERVICE
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- [K] INTERCEPT EXISTING PULL BOX AND INSTALL NEW CONDUIT(S).
- [L] MAINTAIN EXISTING CONNECTIONS AND/OR SPLICE EXISTING CONDUCTORS TO NEW CONDUCTORS IN PULL BOX.
- [M] BACK PULL EXISTING CONDUCTORS TO NEAREST POLE. PULL NEW CONDUCTORS TO POLE AND SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS IN POLE BASE.
- [N] REMOVE AND SALVAGE EXISTING STREETLIGHT POLE AND EQUIPMENT. REMOVE POLE FOUNDATION TO 24" BELOW FINISHED GRADE. CONTRACTOR SHALL ABANDON EXISTING OVERHEAD INTERCONNECT CONDUCTOR ON EXISTING POLES ON THE NORTH SIDE OF OGDEN AVENUE BETWEEN MAIN STREET AND 1ST STREET.
- [O] REMOVE AND SALVAGE EXISTING POLE AND EQUIPMENT. INSTALL DUAL STREETLIGHT ASSEMBLY (SEE DETAILS, SHEET SL-07) ON EXISTING FOUNDATION.
- [P] INSTALL SINGLE ARM STREETLIGHT ASSEMBLY AND FOUNDATION (SEE DETAILS, SHEET SL-07). SEE PLANS FOR STREET LIGHT CIRCUIT CONNECTIVITY.
- [Q] SEE CONDUIT TRENCH IN PAVEMENT DETAIL, (SHEET SL-07).
- [R] CONTRACTOR SHALL REMOVE EXISTING RROC CONTACTOR FROM EXISTING STREETLIGHT POLE. CONTRACTOR SHALL RE-CIRCUIT THIS STREETLIGHT TO CIRCUIT B (STREETLIGHTS ON NORTH SIDE OF STREET).
- [S] CONTRACTOR SHALL REMOVE EXISTING RROC FROM EXISTING STREETLIGHT POLE AND INSTALL NEW CONTACTOR FOR EXISTING CIRCUIT IN EXISTING SERVICE PEDESTAL FOR THAT CIRCUIT.
- [T] EXISTING POLE MOUNTED STREETLIGHT SERVICE WILL BE REMOVED AND REPLACED WITH GROUND MOUNTED SERVICE PEDESTAL BY CLV STAFF. CONTRACTOR SHALL FURNISH AND INSTALL NEW CONTACTOR FOR THIS STREETLIGHT CIRCUIT.
- [U] CONTRACTOR SHALL FURNISH AND INSTALL PHOTOELECTRIC CONTROL UNIT (PEU) ON TOP OF NEW POLE. INSTALL WIRING FROM PEU TO SERVICE PEDESTAL. INSTALL 15 AMP BREAKER IN PEDESTAL, SEE USDC DRAWING NO. 335.S2 FOR REQUIREMENTS.

STREETLIGHT GENERAL NOTES

- 1. ALL STREETLIGHT EQUIPMENT THAT IS TO BE SALVAGED SHALL BE RETURNED TO THE CLV EAST SERVICE YARD. PROVIDE 24 HOUR NOTICE PRIOR TO DELIVERY. CALL 702-229-6331 TO SCHEDULE DELIVERY TIME. CONTRACTOR MUST HAVE A MEANS TO UNLOAD EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EQUIPMENT AND MATERIALS INCURRED IN THIS PROCESS.
- ⊗ STREET LIGHT POLE ID NUMBER (SEE SHEET SL-06).

CALL SOUTHWEST GAS
at 365-2296 for Standby
when excavating over or near
HIGH PRESSURE GAS LINES

811
Know what's below
Call before you dig

SAFETY ALERT
Call before you dig
Overhead
1-702-432-5300

1/25/2013
Call before you dig
Underground
1-702-432-5300

DATE: JANUARY 2013	
DESIGNED BY: KSH	CHECKED BY: PHM
SCALE (H): NTS	SCALE (V): NTS
DRAWN BY: KSH	DESIGNED BY: KSH
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS	
SHEET: 21 OF 38	
107V5739	

Kimley-Horn
and Associates, Inc.
Engineering, Planning, and Environmental Consultants
6871 Las Vegas Blvd. S., Suite 320,
Las Vegas, NV 89119 PH: 702.885.3600

SHANNON R. DHARTZ
Exp: 12/31/14
CIVIL
No. 021219

Jan 25, 2013 - 4:08pm - USER: shannon.dhartz
K:\LAY\Public\trans\022256\023 Stewart-Ogden\CADD\256023SL.dwg

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 10 STEWART AVENUE (A) *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
1	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	2.5 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		2.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
0	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	0 AMPS
TOTAL NEW STREET LIGHT LOAD		0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		2.5 AMPS

* EXISTING STREETLIGHT CIRCUIT TO BE RE-CIRCUITED TO
10 STEWART AVENUE. (CIRCUIT B)

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 10 STEWART AVENUE (B) *		
EXISTING STREET LIGHTS TO BE REMOVED		
5	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	7.5 AMPS
0	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	0 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		7.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
6	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	12 AMPS
TOTAL NEW STREET LIGHT LOAD		12 AMPS ¹
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		4.5 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		0 AMPS

¹ TOTAL CIRCUIT B LOAD WILL BE 23 AMPS AFTER 4.5
AMP INCREASE IN LOAD, 25 AMPS WILL BE AVAILABLE
ON CIRCUIT

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 110 STEWART AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
3	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	7.5 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		7.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
3	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	6.0 AMPS
TOTAL NEW STREET LIGHT LOAD		6.0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		1.5 AMPS

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 212 STEWART AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
5	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	12.5 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		12.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
6	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	12.0 AMPS
TOTAL NEW STREET LIGHT LOAD		12.0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		0.5 AMPS

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 310 STEWART AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
2	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	5.0 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		5.0 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
2	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	4.0 AMPS
TOTAL NEW STREET LIGHT LOAD		4.0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		1.0 AMPS

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 11 OGDEN AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
5	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	12.5 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		12.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
2	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	3.0 AMPS
3	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	6.0 AMPS
TOTAL NEW STREET LIGHT LOAD		9.0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		3.5 AMPS

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 111 1/2 OGDEN AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
2	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	5.0 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		5.0 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
0	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	0 AMPS
2	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	4.0 AMPS
TOTAL NEW STREET LIGHT LOAD		4.0 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		1.0 AMPS

STREET LIGHT CIRCUIT MODIFICATION CALCULATIONS		
EXISTING SERVICE PEDESTAL ADDRESS: 454 OGDEN AVENUE *		
EXISTING STREET LIGHTS TO BE REMOVED		
1	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	1.5 AMPS
2	NUMBER OF 550 WATT STREET LIGHTS @ 2.5 AMPS/EA	5.0 AMPS
TOTAL EXISTING CIRCUIT LOAD TO BE MODIFIED		6.5 AMPS
NEW STREET LIGHTS TO REPLACE EXISTING		
1	NUMBER OF 250 WATT STREET LIGHTS @ 1.5 AMPS/EA	1.5 AMPS
2	NUMBER OF 350 WATT STREET LIGHTS @ 2.0 AMPS/EA	4.0 AMPS
TOTAL NEW STREET LIGHT LOAD		5.5 AMPS
TOTAL INCREASE IN EXISTING CIRCUIT LOAD		0 AMPS
TOTAL REDUCTION IN EXISTING CIRCUIT LOAD		1.0 AMPS

* STREETLIGHT SERVICE METER LOCATIONS PROVIDED FOR CONTRACTOR
INFORMATION. CITY OF LAS VEGAS PROVIDED METER AND CIRCUIT
DRAWINGS FOR USE ON THIS PROJECT. CONTRACTOR SHALL CONTACT
CLV FOR CONFIRMATION ON PROJECT STREETLIGHT SERVICE METER
LOCATIONS.

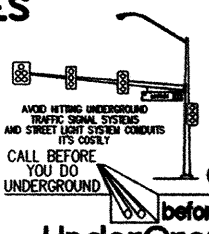
** CONTRACTOR SHALL HAVE CITY APPROVAL OF FOUNDATION
LOCATIONS BEFORE BEGINNING FOUNDATION CONSTRUCTION

STREET LIGHTING SCHEDULE					
POLE No.	WATTAGE (STREET/SIDEWALK)	STREET	STATION AND OFFSET **	SERVICE METER ADDRESS *	NOTES
①	250/100	STEWART AVENUE	11+35.8, 32.5' RT	10 STEWART AVE	REWIRE TO CIRCUIT B
②	250/100	STEWART AVENUE	12+70.7, 32.5' RT	11 OGDEN AVE	
③	250/100	STEWART AVENUE	14+35.4, 32.5' RT	110 STEWART AVE	
④	250/100	STEWART AVENUE	15+46.7, 32.5' RT		
⑤	250/100	STEWART AVENUE	16+69.6, 32.7' RT		
⑥	250/100	STEWART AVENUE	19+08.9, 32.6' RT	212 STEWART AVE	
⑦	250/100	STEWART AVENUE	20+42.9, 32.8' RT		
⑧	250	OGDEN AVENUE	40+96.0, 32.1' LT	11 OGDEN AVE	NO 4' ARM ON POLE ⑧
⑨	250/100	OGDEN AVENUE	41+55.7, 32.9' RT		NO 4' ARM ON POLE ⑩
⑩	250	OGDEN AVENUE	42+31.0, 32.9' LT		
⑪	250/100	OGDEN AVENUE	42+68.9, 32.2' RT	111 1/2 OGDEN AVE	
⑫	250/100	OGDEN AVENUE	45+16.4, 32.9' LT		
⑬	250/100	OGDEN AVENUE	45+52.0, 33.0' RT		
⑭	250/100	OGDEN AVENUE	48+55.8, 32.8' LT	212 STEWART AVE	
⑮	250/100	OGDEN AVENUE	49+90.6, 32.7' RT		
⑯	250/100	OGDEN AVENUE	49+25.7, 33.1' LT		
⑰	250/100	OGDEN AVENUE	50+40.9, 33.0' RT	310 STEWART AVE	
⑱	250/100	OGDEN AVENUE	52+93.5, 33.0' LT		
⑲	250/100	OGDEN AVENUE	54+12.8, 32.9' LT		
⑳	250	OGDEN AVENUE	56+21.2, 32.7' LT	454 OGDEN AVE	NO 4' ARM ON POLE ㉔
㉑	250/100	OGDEN AVENUE	57+37.8, 32.0' LT		
㉒	250/100	OGDEN AVENUE	57+43.0, 32.8' LT		
㉓	250/100	STEWART AVENUE	11+00.0, 31.9' LT	10 STEWART AVE	
㉔	250/100	STEWART AVENUE	12+14.2, 31.9' LT		
㉕	250/100	STEWART AVENUE	13+31.2, 31.9' LT		
㉖	250/100	STEWART AVENUE	14+87.8, 31.9' LT		
㉗	250/100	STEWART AVENUE	16+02.8, 31.9' LT		
㉘	250/100	STEWART AVENUE	23+84.0, 42.1' LT		

CALL SOUTHWEST GAS
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when excavating over or near
HIGH PRESSURE GAS LINES



SAFETY ALERT
Call Before You Dig
Before You Overhead



Call before you dig
Underground
1-702-432-5300

1/25/2013

107V5739

REVISIONS		DATE

SCALE (H): NTS
SCALE (V): NTS
DRAWN BY: KIMLEY-HORN
DESIGNED BY: KIMLEY-HORN
CHECKED BY: KIMLEY-HORN
DATE: JANUARY 2013

**Kimley-Horn
and Associates, Inc.**
Engineering, Planning, and Environmental Consultants
8871 Las Vegas Blvd. S., Suite 320,
Las Vegas, NV 89119 PH: (702) 442-3600



DEPARTMENT OF PUBLIC WORKS

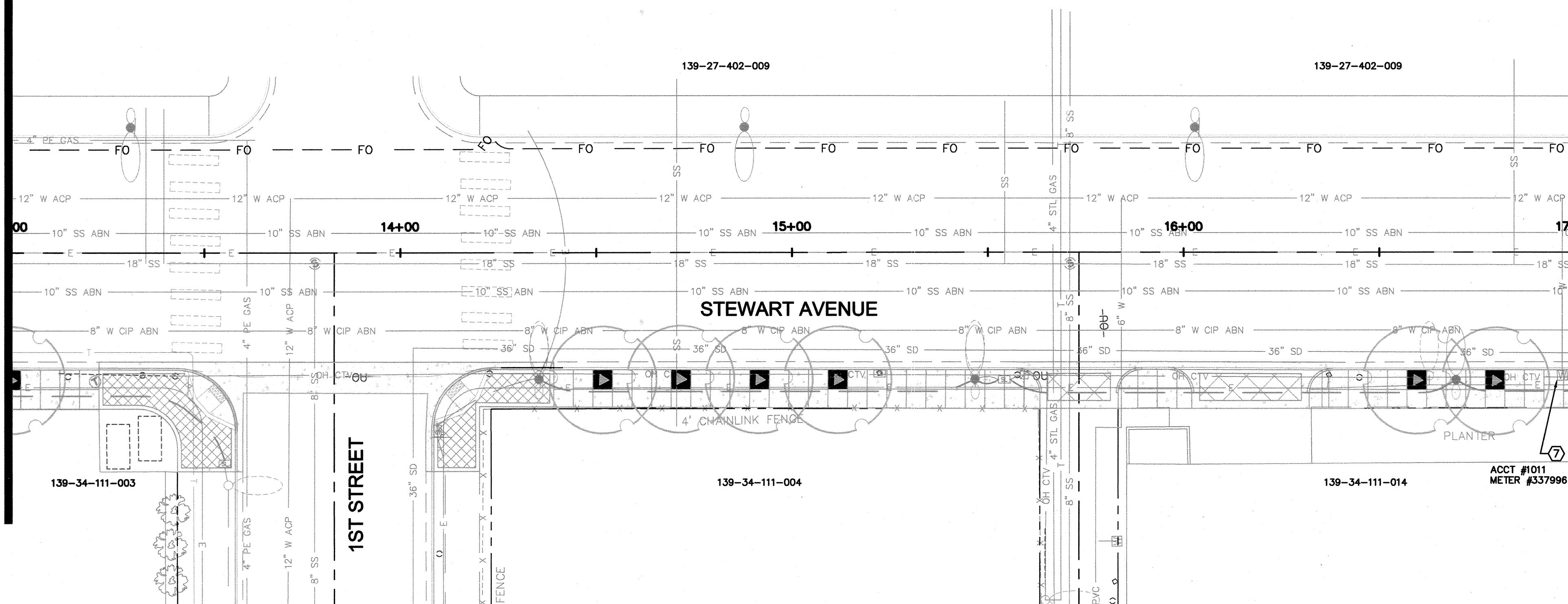
PROJECT: STEWART/OGDEN STREETSCAPE ENHANCEMENTS

SHEET: STREETLIGHT SHEET

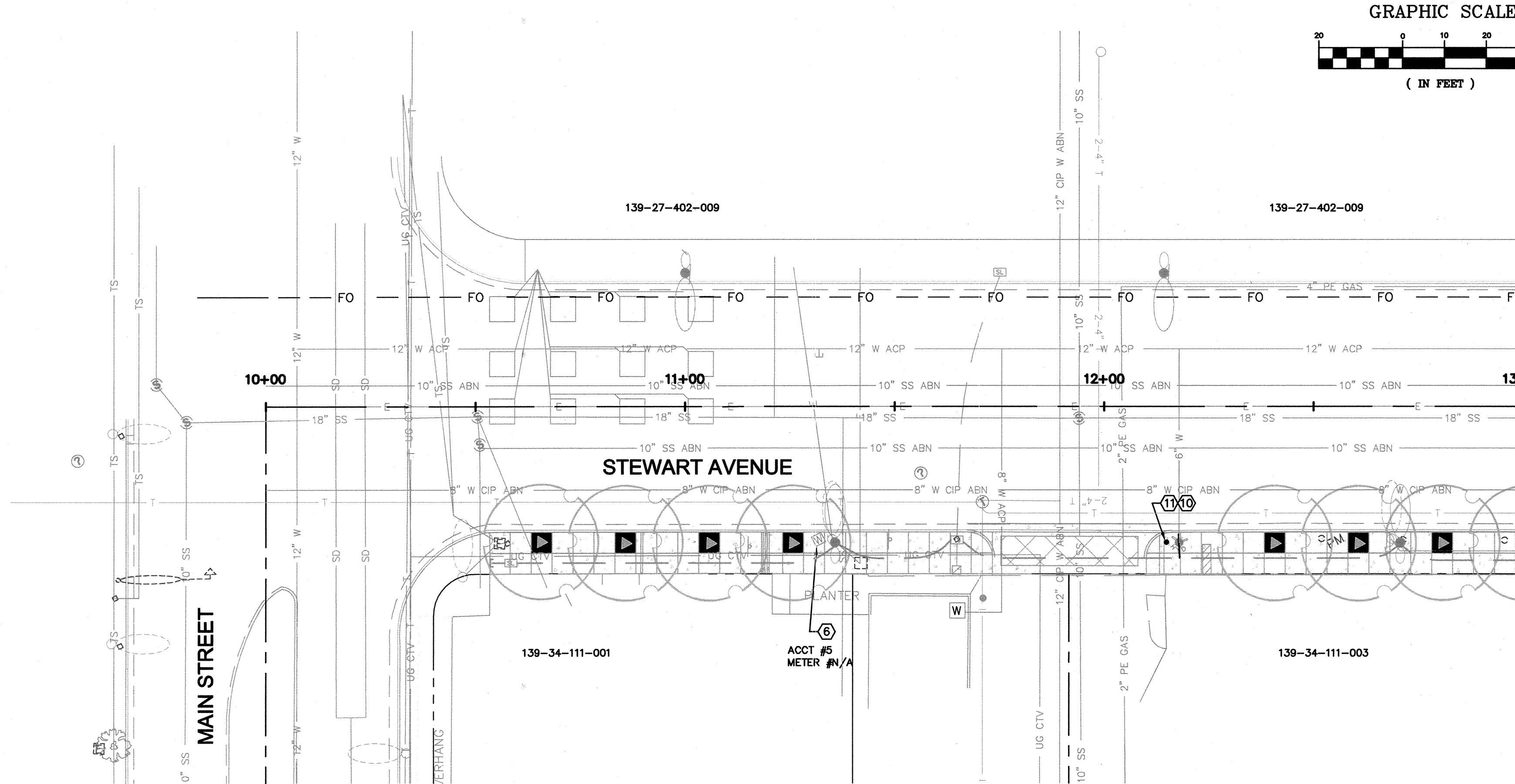
PROFESSIONAL ENGINEER-STATE OF NEVADA
SHANNON R. AHARTZ
Exp: 12/31/14
CIVIL
License No. 021219

1/25/2013
SHEET NO. ST-08
SHEET 22 OF 38
107V5739

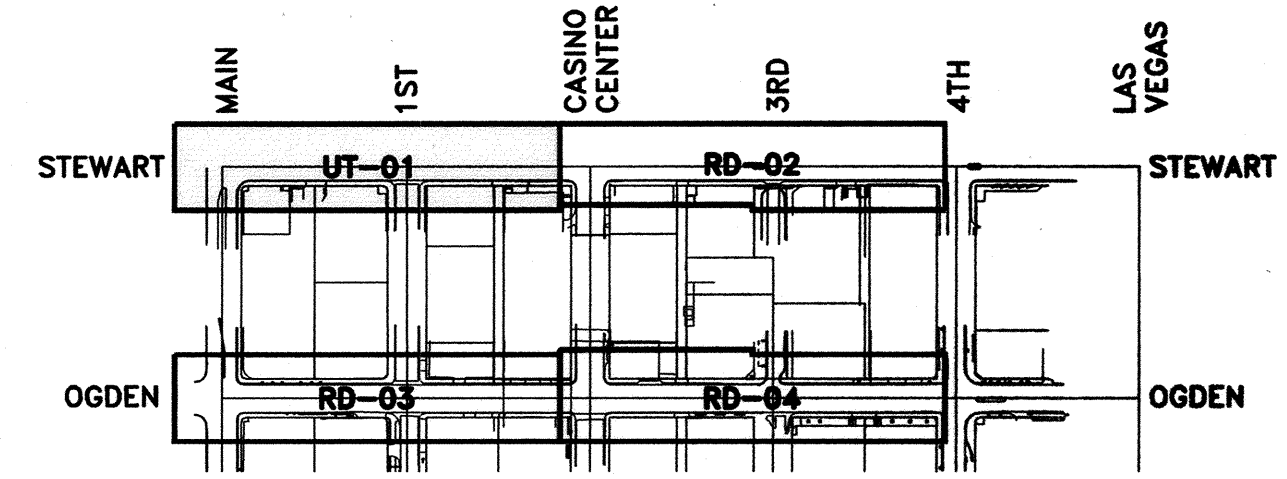
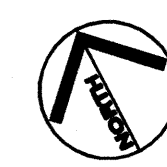
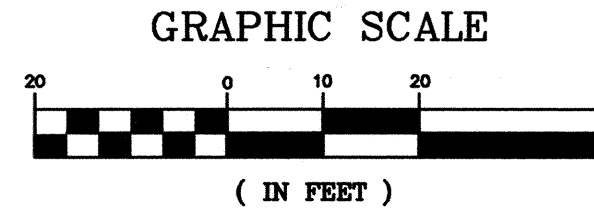
MATCHLINE ~ STA 13+00
SEE ABOVE RIGHT



MATCHLINE ~ STA 17+00
SEE SHEET RD-02



MATCHLINE ~ STA 13+00
SEE BELOW LEFT



GENERAL NOTES

1. ALL STATIONS AND OFFSETS ARE BASED ON CONTROL LINE.
2. ELEVATIONS, OFFSETS AND GRADES ARE AT BACK OF CURB UNLESS OTHERWISE NOTED.
3. SEE HC SHEETS FOR CENTER LINE INFORMATION, BENCHMARK, AND BASIS OF BEARING.
4. ALL EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
5. CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. ON-SITE UTILITIES ARE TO BE INSTALLED PER THE CURRENTLY ADOPTED DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER AND POTABLE WATER SYSTEMS.
7. CONTRACTOR TO PROTECT ALL EXISTING UNDERGROUND UTILITIES IN PLACE DURING EXCAVATION BACKFILL.
8. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS FOR SOUTHERN NEVADA.

CONSTRUCTION NOTES

1. INSTALL 3/4" WATER METER PER UDACS PLATE NO. 4.
2. INSTALL 1" RPPA PER UDACS PLATE NO. 8.
3. INSTALL 1" COPPER WATERLINE PER UDACS PLATE NO. 4.
4. INSTALL 1" BRASS WATERLINE PER UDACS PLATE NO. 8.
5. INSTALL SERVICE SADDLE PER UDACS PLATE NO. 4.
6. REMOVE EXISTING METER BOX AND LID.
7. REPLACE METER BOX AND LID PER UDACS PLATE #4. PROTECT METER AND APPURTENANCES IN PLACE.
8. RELOCATE EXISTING FIRE HYDRANT PER NOTE.
9. 12" X 6" TAPPING SLEEVE W/ 8" TAPPING VALVE PER UDACS PLATE #34 AND #35 AND SECTION 2-24.01.
10. PROTECT EXISTING FIRE HYDRANT IN PLACE. INSTALL PAD PER UDACS PLATE #40.
11. INSTALL VEHICULAR PROTECTION BOLLARD PER UDACS PLATE #75.

KEY MAP

LVVWD QUANTITIES*

VEHICULAR BOLLARD 1 EA

*BY SHEET

BENCHMARK

THE ELEVATION DATA SHOWN HEREON ARE U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. CITY OF LAS VEGAS BENCHMARKS - 2008 ADJUSTMENT (UPDATED 05/24/2010). STATION "1LV01 34NE6" BEING A RIVET AND PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF STEWART AVE. AND LAS VEGAS BLVD.

ELEVATION 611.087 METERS - PUBLISHED
ELEVATION 2004.87 U.S. SURVEY FEET - COMPUTED

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 45° 09' 07" WEST, BEING THE LINE BETWEEN GIS MONUMENT 826 AND GIS MONUMENT 876 AS SHOWN ON THE MAP TITLED "RECORD OF SURVEY FOR CLARK COUNTY LAS VEGAS VALLEY GEODETIC CONTROL NETWORK" ON FILE WITH THE CLARK COUNTY RECORDER IN FILE 88, PAGE 53 OF SURVEYS.

VALUES FOR THE MONUMENTS ON NORTH AMERICAN DATUM OF 1983 (NAD83) NEVADA STATE PLANE EAST ZONE (2701) HIGH ACCURACY REFERENCE NETWORK 1994 (HARN) ADJUSTED COORDINATES.

STATE PLANE COORDINATES		PROJECT GROUND COORDINATES	
NORTH	8156442.882 METERS	NORTH	764456.64 U.S. SURVEY FEET
EAST	242030.387 METERS	EAST	94195.69 U.S. SURVEY FEET
GIS 876		GIS 876	
NORTH	8161279.551 METERS	NORTH	780327.82 U.S. SURVEY FEET
EAST	237168.018 METERS	EAST	78240.37 U.S. SURVEY FEET

APPROVED FOR CONSTRUCTION

Shayhead
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 01/30/13 PROJECT No. 116989 ESN 018

CALL SOUTHWEST GAS
at 365-2296 for Standby
when excavating over or near
HIGH PRESSURE GAS LINES



SAFETY ALERT

Call Before You Dig

Before You Overhead

know what's below

Call before you dig

CALL BEFORE YOU DIG

1-800-4-A- Dig

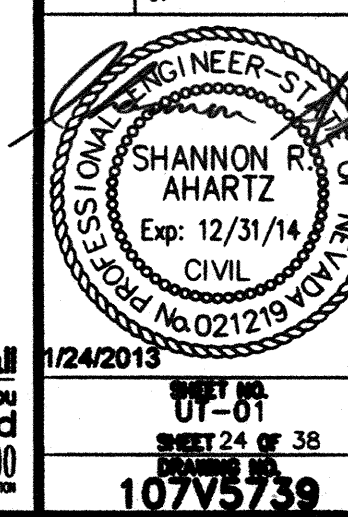
1-702-432-5300

FREQUENT AND AVOIDANCE OF DISRUPTION

DEPARTMENT OF PUBLIC WORKS

STEWART/OGDEN
STREETSCAPE
ENHANCEMENTS

ROADWAY SHEET



1/24/2013

UT-01

SHEET 24 OF 38

10775739