

DEPARTMENT OF PUBLIC WORKS



Mayor:
CAROLYN G. GOODMAN

City Council:
STEVE WOLFSON
LOIS TARKANIAN
STEVEN D. ROSS
RICKI Y. BARLOW
STAVROS S. ANTHONY
(Mayor Pro-Tem)
BOB COFFIN

City Manager:
ELIZABETH N. FRETWELL

Director of Public Works:
JORGE CERVANTES, P.E., PTOE

City Engineer:
DAVID BOWERS, P.E., PTOE

*Oakey/Meadows
Storm Drain
Phase 2B
Hinson Street from
Oakey Boulevard to Northstar Street
Funded by:*

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
CITY OF LAS VEGAS SANITATION FUND
FEDERAL HIGHWAY ADMINISTRATION

REVIEWED BY:

City Engineer _____ Date _____

Project Manager _____ Date _____

Construction Management _____ Date _____

City Traffic Engineer _____ Date _____

Clark County Regional Flood Control District _____ Date _____

*Las Vegas Valley Water District _____ Date _____

*NV Energy - Transmission _____ Date _____

*NV Energy - Distribution _____ Date _____

NV Energy acknowledges that we have received your plans and will provide service to all electrical needs associated with this project. NV Energy reserves the right to address any existing or future conflicts once the final design is completed. The new service and the resolution of any conflict will be accomplished pursuant to the Nevada utility commission's rules and regulations.

*Southwest Gas Corporation _____ Date _____

*Century Link _____ Date _____

The affixed Century Link approval does not assume or guarantee liability for known or unknown conflicts with existing or proposed improvements. Resolution of any conflicts will be accomplished pursuant to local ordinances, Nevada Revised Statutes, and/or Public Utility Commission rules and regulations.

*Cox Communications Las Vegas, Inc. _____ Date _____

Freeway & Arterial System Of Transportation _____ Date _____

City of Las Vegas Fire Department _____ Date _____

The signature above acknowledges the Utility Company representative has reviewed the plans and that to the best of his/her knowledge the utility lines are shown in the correct locations and are the correct sizes. While such data has been collected with reasonable care, there is no expressed or implied guarantee that the locations are exact. The Contractor shall bear the responsibility of obtaining the actual field locations.

The signature above further acknowledges the Utility Company does not anticipate construction or maintenance in the project area for five (5) years in conformance with the CLV no-cut policy.

HANSEN #26843

BID#: 12.1730.02

ATKINS

2270 Corporate Circle Suite
100 Henderson, Nevada
89074 Telephone:
702/263-7275
Fax: 702/263-7200



SHEET:

C1.01

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DRAWING#

327v284-3

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE

CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.

PROJECT MANAGER: ANGELO SPATA, P.E.

DESIGN BY: SMB

CHECK BY: AAS

DRAWN BY: RPW



TITLE: Oakey/Meadows Storm Drain

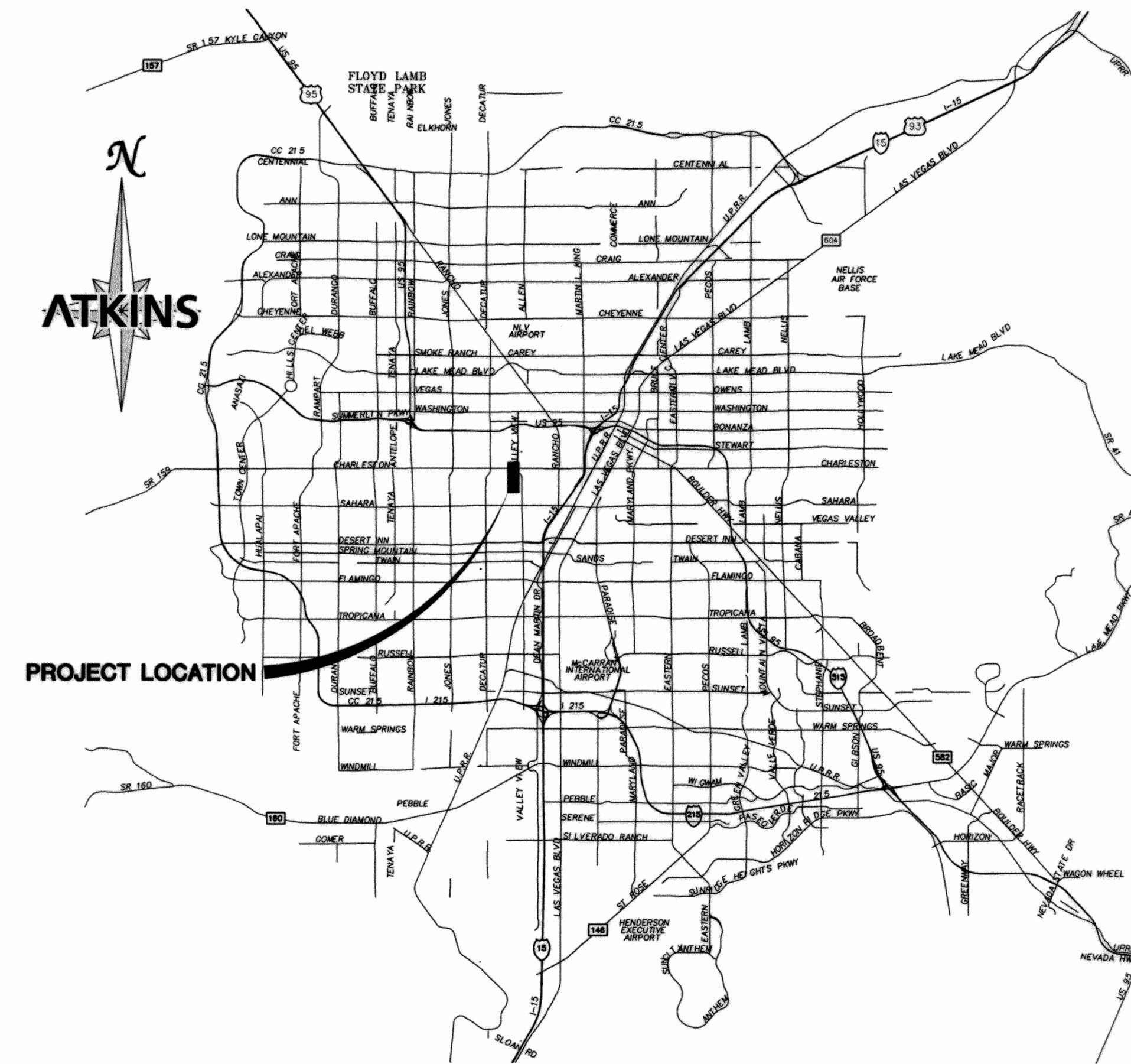
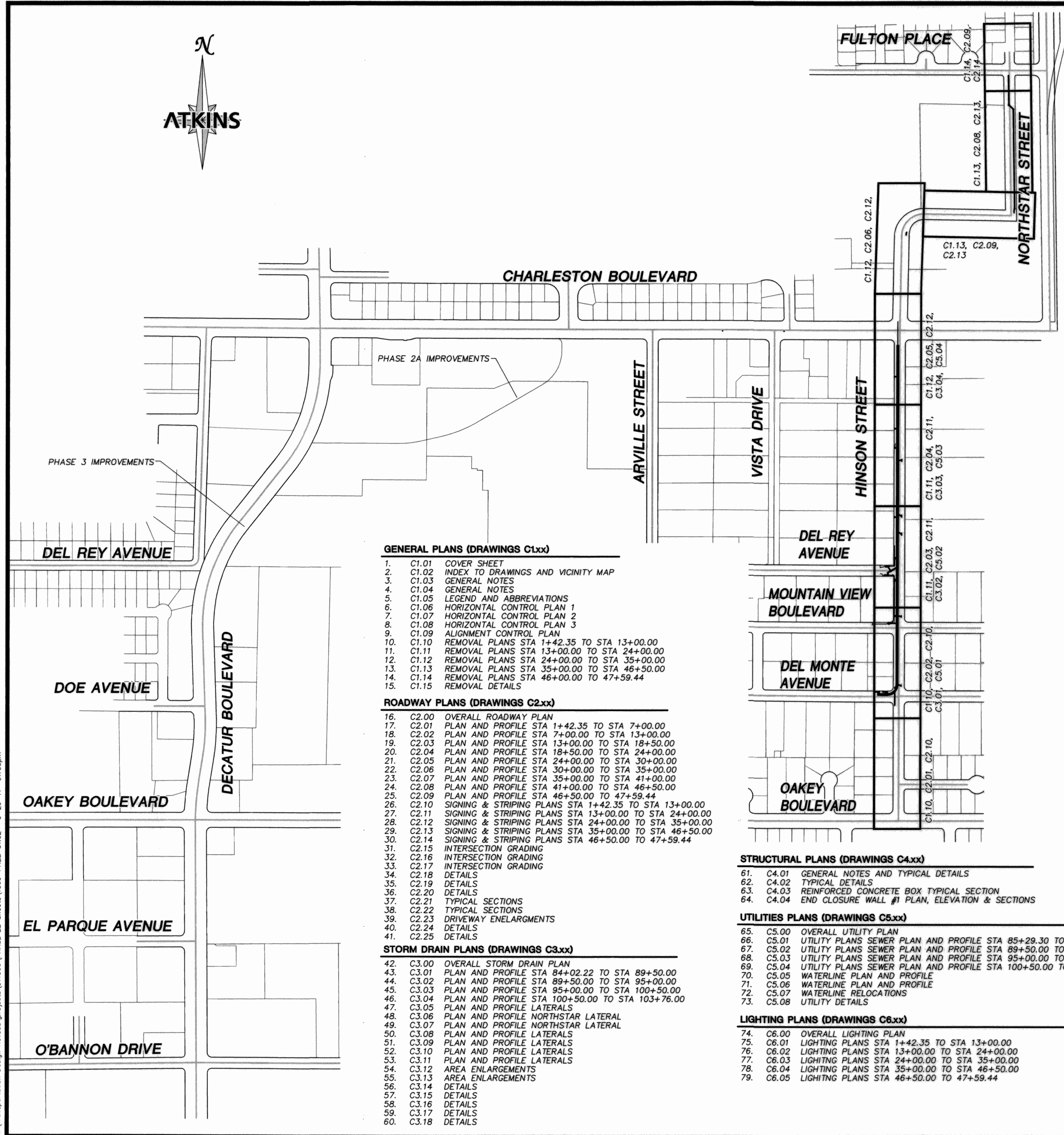
PHASE 2B - Hinson Street from

Oakey Boulevard to Northstar Street

SHEET:

COVER SHEET

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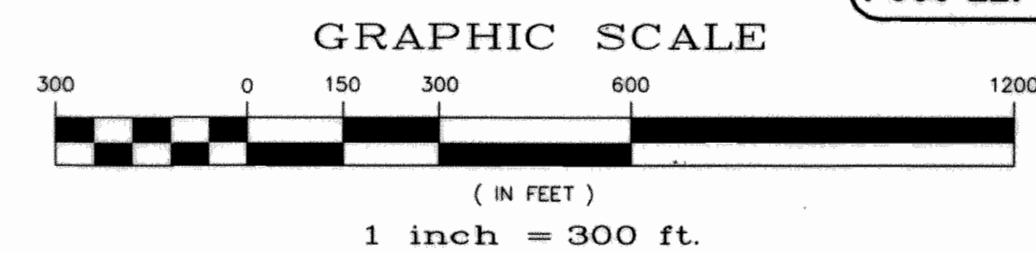
WORK IN NDOT R/W ON CHARLESTON BOULEVARD IS IN A PORTION OF SECTION 31, TOWNSHIP 20 SOUTH, RANGE 61 EAST AND A PORTION OF SECTION 06, TOWNSHIP 21 SOUTH, RANGE 61 EAST.

NV ENERGY PLANS
SHEET 1 OF 1 OAKLEY MEADOWS STORM DRAIN PH-2B HINSON ST. S/O CHARLESTON BLVD.

SOUTHWEST GAS PLANS
*

EMBARQ PLANS
*

* TO BE INCLUDED UPON COMPLETION



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SNG
CHECK BY: AAS
DRAWN BY: RFW
DATE: JUNE 2011

CITY OF LAS VEGAS

TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

**INDEX TO DRAWINGS
AND VICINITY MAP**

PROFESSIONAL ENGINEER STATE OF NEVADA
STEVEN M. BELLINO
EXP. 12-31-12
CIVIL
No. 18040

SHEET:
C1.02
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DRAWING#
327V284-3

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CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ORDINANCE #6124 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
- AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
A. KENNEDY – GUARDIAN MODELS K81A AND K81D
B. MUELLER – SUPER CENTURION 250 MODEL A-423
C. CLOW – MEDALLION MODEL F-2546LVD
D. TROY VALVE – PATRIOT MODEL PT8100N NEVADA HYDRANT
E. U.S. PIPE – METROFLOW/M-03
- TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTERLINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS AS REQUIRED BY ORDINANCE #6124.
- 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 #6124, FOR THE PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- 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 THE 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 THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS.
- VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES.
- 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.

NOTES 3, 7-18, 23-27 AND 30 ARE NOT USED.

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 DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACT SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- 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 SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- 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, 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 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 ATTSa TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN, AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT-OF-WAY.
- 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 (CAT), IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET, TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
- NOT USED
- CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFF-SITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS, AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CITY OF LAS VEGAS 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 IS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
- NOT USED
- NOT USED
- 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, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

DEVIATIONS FROM STANDARDS

THERE ARE NO DEVIATIONS FROM APPLICABLE CITY OF LAS VEGAS STANDARDS, UNLESS STATED IN THE SPECIFICATIONS.

CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL SNWA/SNWS APPURTENANCES INCLUDING, BUT NOT LIMITED TO AV/AR, ACCESS MANWAYS AND CATHODIC PROTECTION SYSTEMS. ALL ABOVE GROUND STRUCTURES AND AT GRADE STRUCTURES MUST BE ADJUSTED TO NEW GRADE AT CONTRACTORS EXPENSE. CATHODIC PROTECTION TEST STATIONS, RECTIFIERS, AND AV/AR'S MUST BE RELOCATED TO THE SIDEWALK PER SNWA STANDARDS, AND AT THE CONTRACTORS EXPENSE. CONTRACTOR TO NOTIFY SOUTHERN NEVADA WATER AUTHORITY, DEVELOPMENT PLAN REVIEW, AT (702) 862-3444 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.

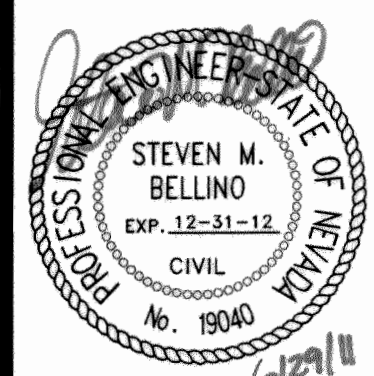
CHECK BY: ANGelo SPAITA, P.E. AAS
DATE: JUNE 2011

PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
DESIGN BY: SMG
DRAWN BY: RPW



TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

GENERAL NOTES



ATKINS

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FEDERAL PROJECT MS-0003(146)

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DEVIATIONS FROM STANDARDS

THERE ARE NO DEVIATIONS FROM APPLICABLE CITY OF LAS VEGAS STANDARDS, UNLESS STATED IN THE SPECIFICATIONS.

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 ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA," LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENTS STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS."
- 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.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP 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.
- 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.
- 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.
- 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.

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 (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- 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 INCH (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 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

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD PROJECT #116737

- 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 OFF-SITE 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 AREAS.
- 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'S 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 SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS
- TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
Date _____ Project No. 116737 ESN 018

CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES

- LL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II EFFECTIVE MARCH 30, 2001.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION. CALL BEFORE YOU OVERHEAD: 1-702-593-6111 CALL BEFORE YOU DIG: 1-800-227-2600 STREETLIGHTS: 1-702-229-6331 F.A.S.T.: 1-702-432-5300
- ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
- ALL PULL BOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
- PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2 WIRE SYSTEM) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3* PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS; AND AS MODIFIED BY POLARA TO FIT ON A 9"x12" SIGN. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION.
- THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
- ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS. IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS, ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-300VIE OR DALIGHT MODEL #430-6479-801, OR APPROVED EQUAL.
- LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A&E OR NEVER-FAIL LOOP SYSTEMS. TWO (2) CHANNEL RACK-MOUNTED DETECTOR AMPLIFIERS SHALL BE INSTALLED IN THE CONTROLLER CABINET WHICH ACCOMMODATE 24 SEPARATE CHANNELS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
- THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.

REVISED 01/26/10

NOTES 5-8, 10, 13-17, 19, 21 AND 23 ARE NOT USED.

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.
- NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- ALL STREET LIGHTING CONDUITS STUB 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 TEFO 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.

REVISED 04/15/10

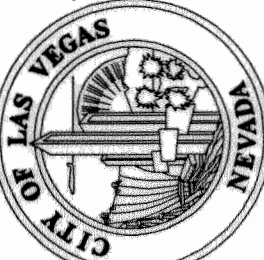
ATKINS

2270 Corporate Circle Suite
100 Henderson, Nevada
89074 Telephone:
702/263-7275
Fax: 702/263-7200

DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., P.T.E.
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SNB
CHECK BY: AAS
DRAWN BY: RW
DATE: JUNE 2011



TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

GENERAL NOTES



SHEET:

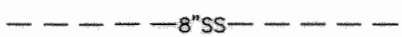
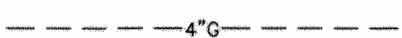
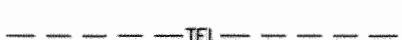
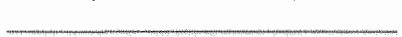
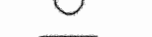
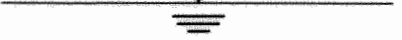
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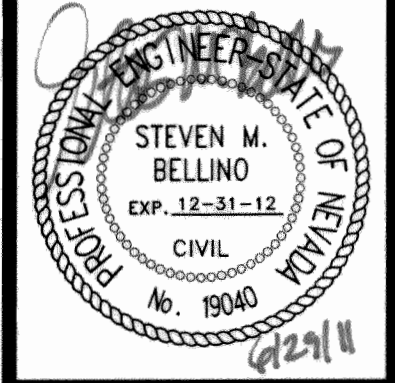
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LEGEND

EXISTING CHAIN-LINK-FENCE	
EXISTING BLOCK WALL	
EXISTING UNDERGROUND/OVERHEAD POWER	
EXISTING SANITARY SEWER	
EXISTING WATER	
EXISTING GAS	
EXISTING CABLE T.V.	
EXISTING STORM DRAIN	
EXISTING UNDERGROUND TELEPHONE	
EXISTING EDGE OF PAVEMENT	
EXISTING CURB AND GUTTER	
EXISTING DRIVEWAY	
EXISTING FIRE HYDRANT	
EXISTING UTILITY VALVE	
EXISTING SEWER MANHOLE	
EXISTING STORM DRAIN MANHOLE	
EXISTING ELECTRICAL VAULT	
EXISTING TELEPHONE VAULT	
EXISTING STREETLIGHT	
EXISTING POWER POLE	
EXISTING ELEVATION	
EXISTING PULLBOX	
EXISTING ELECTRICAL SWITCH CABINET	
EXISTING ELECTRICAL CABLE VAULT	
EXISTING DROP INLET	
NEW ELEVATION	
BLOWOFF	
SWALE/AREA INLET	
NEW NDOT TYPE 3 DROP INLET	
NEW TYPE 'CM' DROP INLET	
NEW TYPE 'DM' DROP INLET	
NEW TYPE 'D' DROP INLET	
TEST HOLE/ GEOTECHNICAL HOLE	
TRENCH DRAIN	
NEW SANITARY SEWER W/MANHOLE	
NEW GAS	
NEW CURB AND GUTTER	
DIRECTION OF FLOW OR SLOPE	
PROPERTY LINE	
CENTERLINE	
RIGHT-OF-WAY LINE	
FLOWLINE	
LIMITS OF OPEN GRADE/COLD MILL	
HYDRAULIC GRADE LINE	
WATERMAIN (RELOCATED)	
WATERMAIN ENCASEMENT	
STREET CENTERLINE	
FOUND POINT AS NOTED	
POTHOLE/BORE HOLE LOCATION	
SCARP ARROW	
SAWCUT PAVEMENT	

ABBREVIATIONS

⊙	AT	EXIST, EX.	EXISTING	PH	POT HOLE (LOCATION)	SY	SQUARE YARD
AB	ABANDONED UTILITY	EXP. JT.	EXPANSION JOINT	PI	POINT OF INTERSECTION	TC	TOP OF CURB
AC	ASPHALTIC CONCRETE	FAST	FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION	PKWY	PARKWAY	TEMP	TEMPORARY
ACP	ASBESTOS CEMENT PIPE	FC, FOC	FACE OF CURB	PL, $\bar{L}$	PROPERTY LINE	TH	TEST HOLE
AGG	AGGREGATE	FG	FINISHED GRADE	PLCS	PLACES	THK	THICK
AI	AREA INLET	FH	FIRE HYDRANT	PLS	PROFESSIONAL LAND SURVEYOR	THR	THRUST
AL	ALUMINUM	FL, $\bar{L}$	FLOW LINE	PMF	PAVEMENT MARKING FILM	T.O.C.	TOP OF CURB
APPROX	APPROXIMATE	FOS	FACE OF STRUCTURE	POC	POINT OF CONNECTION	T.O.P.	TOP OF PIPE
AVE	AVENUE	FT	FOOT/FEET	PPLN	PIPELINE	TS	TRAFFIC SIGNAL
BC	BACK OF CURB	GB	GRADE BREAK	PRC	POINT OF REVERSE CURVE	TW, T.O.W.	TOP OF WALL
BCR	BACK OF CURB RADIUS	GH	GEOTECHNICAL HOLE	PT	POINT OF TANGENCY	TYP	TYPICAL
BLK	BLOCK	GL	GRATE LENGTH	P.U.E.	PUBLIC UTILITY EASEMENT	UDACS	UNIFORM DESIGN AND CONSTRUCTION STD. FOR WATER DISTRIBUTION SYSTEMS
BLVD	BOULEVARD	GM	GAS METER	PVC	POLYVINYL CHLORIDE	UGP	UNDERGROUND POWER
BM	BENCHMARK	GV	GATE VALVE	PVMT.	PAVEMENT	UNO	UNLESS NOTED OTHERWISE
BSW	BACK OF SIDEWALK	H	HEIGHT	R / RAD	RADIUS	USD	UNIFORM STANDARD DRAWING (CLARK COUNTY)
CATV	CABLE T.V.	HDPE	HIGH DENSITY POLYETHYLENE	(R)	RADIAL	USS	UNIFORM STANDARD SPECIFICATIONS (CLARK COUNTY)
CCRCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	HE	HORIZONTAL ELLIPTICAL	RCB	REINFORCED CONCRETE BOX	VC	VERTICAL CURVE
CCSD	CLARK COUNTY SANITATION DISTRICT	HGL	HYDRAULIC GRADE LINE	RCC	ROLLER COMPACTED CONCRETE	VCP	VITRIFIED CLAY PIPE
CCUSD	CLARK COUNTY UNIFORM STANDARD DRAWING	HORIZ.	HORIZONTAL	RCP	REINFORCED CONCRETE PIPE	VERT	VERTICAL
CCUSS	CLARK COUNTY UNIFORM STANDARD SPECIFICATIONS	ID	INSIDE DIAMETER	RP	RADIUS POINT	VG	VALLEY GUTTER
CCW	COUNTER CLOCKWISE	IF	INSIDE FACE	RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY	W	WEST / WATER / WEAKENED PLANE JOINT
C&G	CURB & GUTTER	INV	INVERT	RT	RIGHT	W/	WITH
CFS	CUBIC FEET PER SECOND	JS	JUNCTION STRUCTURE	R/W	RIGHT OF WAY	WL	WATER LINE
CIC	CABLE-IN-CONDUIT	K	VERTICAL CURVE K VALUE	S	SOUTH / SLOPE	WM	WATER METER
CL, $\bar{L}$	CENTERLINE	KRG	KERN RIVER GAS	SCCP	STEEL CYLINDER CONCRETE PIPE	WV	WATER VALVE
CLR	CLEAR	KV	KILOVOLT	SD	STORM DRAIN	WW	WASTEWATER
CLV	CITY OF LAS VEGAS	L	LENGTH	SDMH	STORM DRAIN MANHOLE		
CNDT	CONDUIT	LAT	LATERAL	SF	SQUARE FOOT		
CONC, PCC	CONCRETE	LF	LINEAR FEET	SHT	SHEET		
CONST	CONSTRUCTION	LLC	LIMITED LIABILITY CORPORATION	SL	STREETLIGHT		
CW	CLOCKWISE	LLP	LIMITED LIABILITY PARTNERSHIP	SNWA	SOUTHERN NEVADA WATER AUTHORITY		
CY	CUBIC YARD	L.O.C.	LENGTH OF CURVE	SO	SQUARE		
D	DEPTH	LT	LEFT	SS	SANITARY SEWER		
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	LVSP	LAS VEGAS SPRINGS PRESERVE	SSMH	SANITARY SEWER MANHOLE		
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	ST	STREET		
DET	DETAIL	MAX	MAXIMUM	STA	STATION		
DG	DESIGN GRADE	MH	MANHOLE	STD	STANDARD		
DI	DROP INLET	MIN	MINIMUM	STL	STEEL		
DIA	DIAMETER	MLCP	MORTAR LINED COATED PIPE	S/W	SIDEWALK		
DIAG	DIAGONAL	MTL	MATERIAL				
D.L.	DRAIN LINE	N	NORTH / MANNINGS ROUGHNESS COEFFICIENT				
DR	DRIVE	NAP	NOT A PART				
DTG	DEPTH TO GROUNDWATER	N.D.O.T.	NEVADA DEPARTMENT OF TRANSPORTATION				
D/W	DRIVEWAY	NG	NUMBER OF GRATES / NATURAL GRADE				
DWG	DRAWING	NIC	NOT IN CONTRACT				
E	EAST	NPC	NEVADA POWER COMPANY				
EA	EACH	N.T.S.	NOT TO SCALE				
EDI	EXISTING DROP INLET	OC, O.C.	ON CENTER				
EF	EACH FACE	OD	OUTSIDE DIAMETER				
EG	EXISTING GROUND	OH	OVER HEAD				
ELEC	ELECTRIC, ELECTRICAL	OHP	OVER HEAD POWER				
ELEV	ELEVATION	PB	PULL BOX				
EOP, EP	EDGE OF PAVEMENT	PC	POINT OF CURVE				
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE	PCC	POINT OF COMPOUND CURVE				
EQ.	EQUAL	PE	POLYETHYLENE				
EW	EACH WAY						



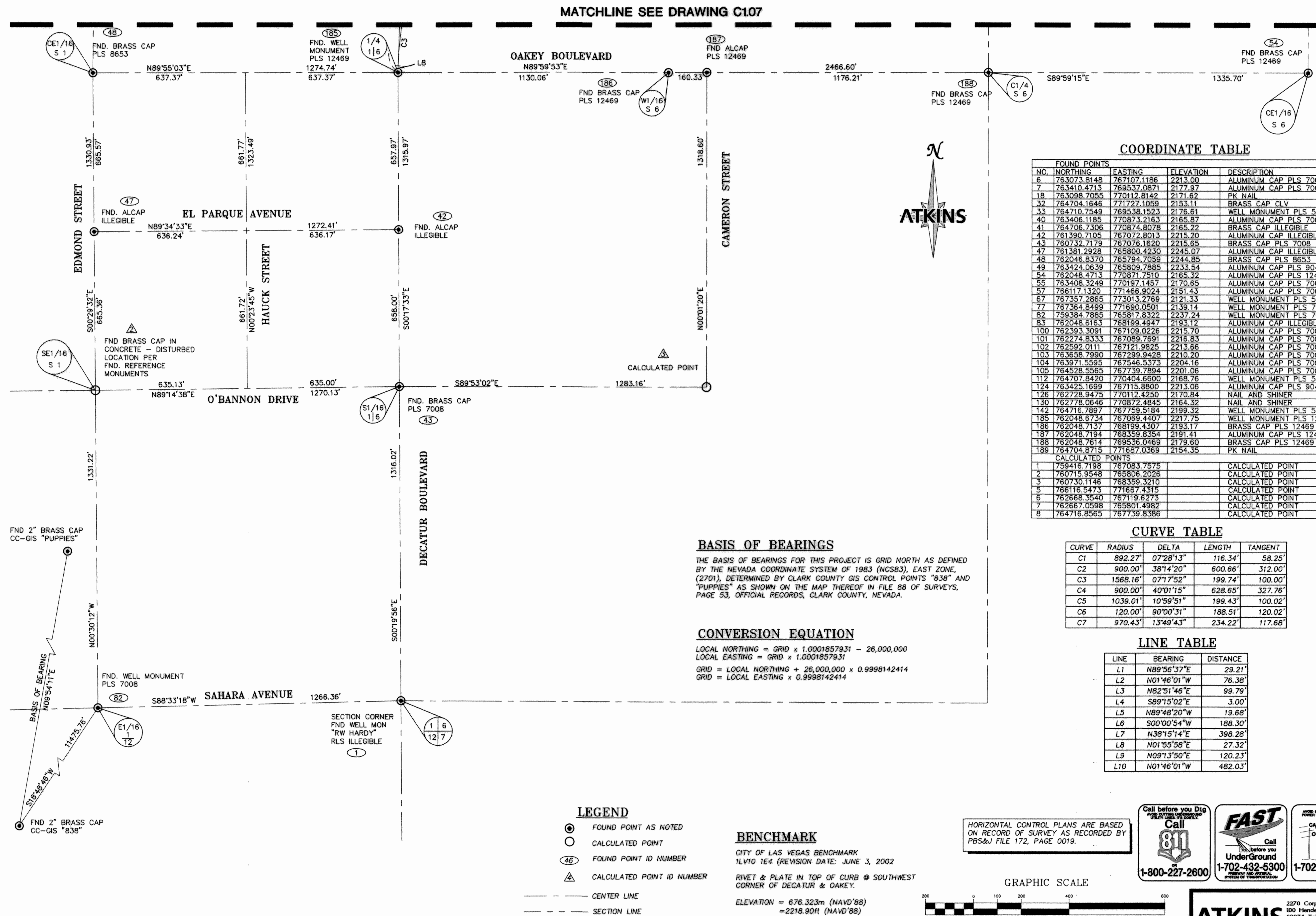
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100 Henderson, Nevada
89074 Telephone:
702/263-7275
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION
CITY ENGINEER: DAVID BOWERS, P.E., P.T.O.E.
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGelo SPATA, P.E.
DESIGN BY: SM
CHECK BY: AAS
DRAWN BY: REW
DATE: JUNE 2011

TITLE: OAKLEY MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET
SHEET:
LEGEND AND ABBREVIATIONS

SHEET:
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5 of 79
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DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.

PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SNB
CHECK BY: AAS

DRAWN BY: RFW
DATE: JUNE 2011

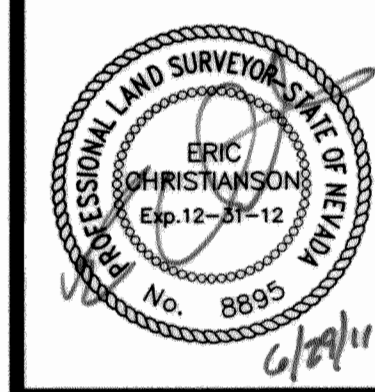
OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

HORIZONTAL CONTROL PLAN 1

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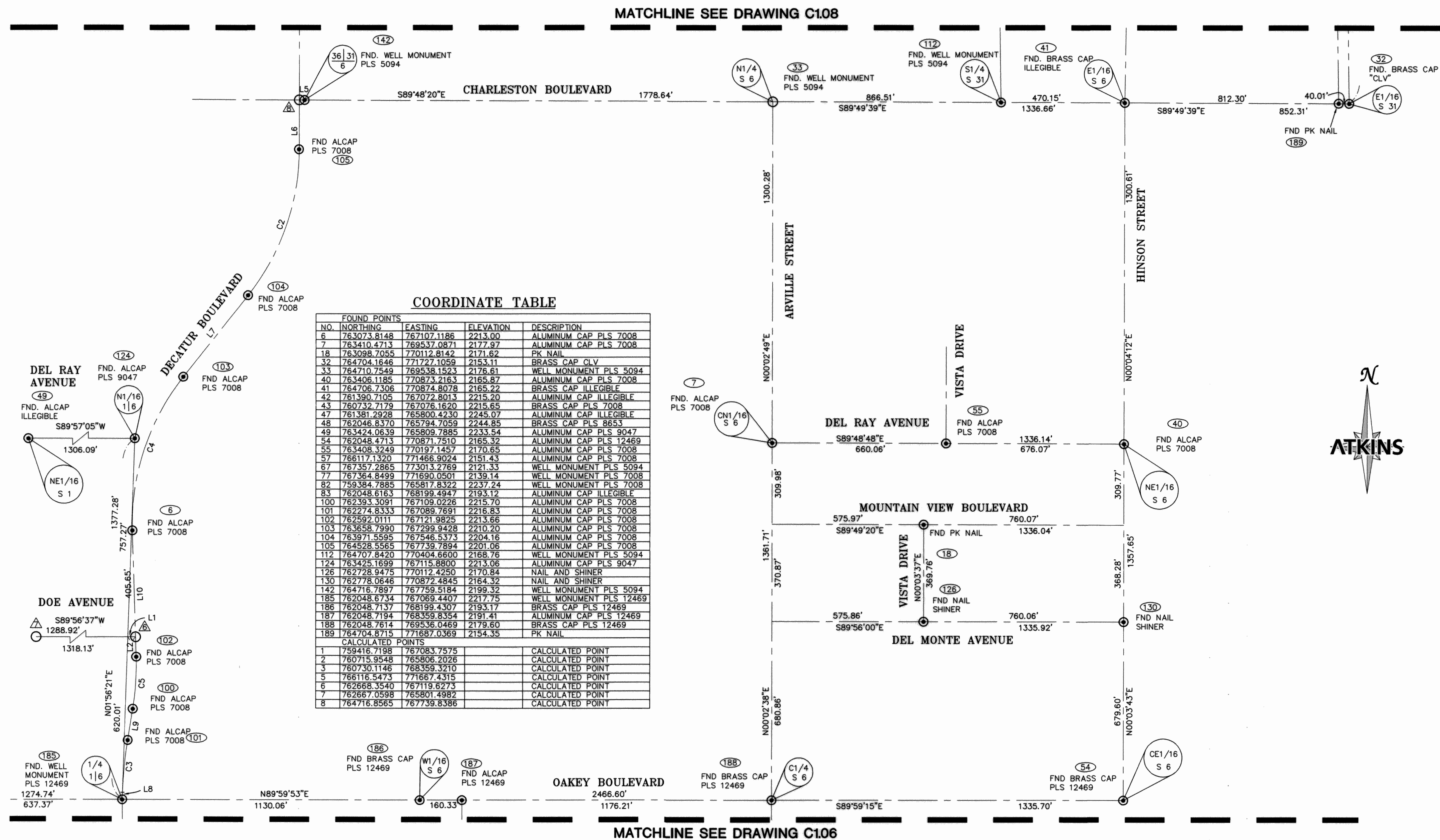


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FEDERAL PROJECT MS-0003(146)

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COORDINATE TABLE

FOUND POINTS			
NO.	NORTHING	EASTING	ELEVATION
6	763073.8148	767107.1186	2213.00
7	763410.4713	769537.0871	2177.97
18	763098.7055	770112.8142	2171.62
32	764704.1646	771727.1059	2153.11
33	764710.7549	769538.1523	2176.61
40	763406.1185	770873.2163	2165.87
41	764706.7306	770874.8078	2165.22
42	761390.7105	767072.8013	2215.20
43	760732.7179	767076.1620	2215.65
47	761381.2928	765800.4230	2245.07
48	762046.8370	765794.7059	2244.85
49	763424.0639	765809.7885	2233.54
54	762048.4713	770871.7510	2165.32
55	763408.3249	770197.1457	2170.65
57	766117.1320	771466.9024	2151.43
67	767357.2865	773013.2769	2121.33
77	767384.8499	771690.0501	2139.14
82	759384.7885	765817.8322	2237.24
83	762048.6163	768199.4947	2193.12
100	762393.3091	767109.0226	2215.70
101	762274.8333	767089.7691	2216.83
102	762592.0111	767121.9825	2213.66
103	763658.7990	767299.9428	2210.20
104	763971.5595	767546.5373	2204.16
105	764528.5565	767738.7894	2201.06
112	764707.8420	770404.6600	2168.76
124	763425.1699	767115.8800	2213.06
126	762728.9475	770112.4250	2170.84
130	762778.0646	770872.4845	2164.32
142	764716.7897	767759.5184	2199.32
185	762048.6734	767069.4407	2217.75
186	762048.7137	768199.4307	2193.17
187	762048.7194	768359.8354	2191.41
188	762048.7614	769536.0469	2179.80
189	764704.8715	771687.0369	2154.35
CALCULATED POINTS			
1	759416.7198	767083.7575	CALCULATED POINT
2	760715.9548	765806.2026	CALCULATED POINT
3	760730.1146	768359.3210	CALCULATED POINT
5	766116.5473	771667.4315	CALCULATED POINT
6	762668.3540	767119.6273	CALCULATED POINT
7	762667.0598	765801.4982	CALCULATED POINT
8	764716.8565	767738.8386	CALCULATED POINT

CURVE TABLE

CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	892.27'	07°28'13"	116.34'	58.25'
C2	900.00'	38°14'20"	600.66'	312.00'
C3	1568.16'	07°17'52"	199.74'	100.00'
C4	900.00'	40°01'15"	628.65'	327.76'
C5	1039.01'	10°59'51"	199.43'	100.02'
C6	120.00'	90°00'31"	188.51'	120.02'
C7	970.43'	13°49'43"	234.22'	117.68'

LINE TABLE

LINE	BEARING	DISTANCE
L1	N89°56'37"E	29.21'
L2	N01°46'01"W	76.38'
L3	N82°51'46"E	99.79'
L4	S89°15'02"E	3.00'
L5	N89°48'20"W	19.68'
L6	S00°00'54"W	188.30'
L7	N38°15'14"E	398.28'
L8	N01°55'58"E	27.32'
L9	N09°13'50"E	120.23'
L10	N01°46'01"W	482.03'

LEGEND

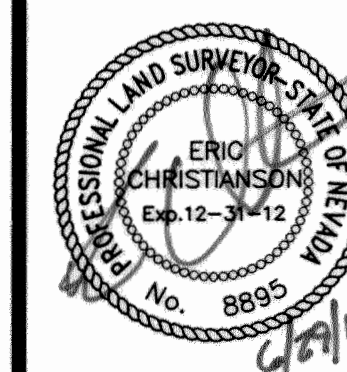
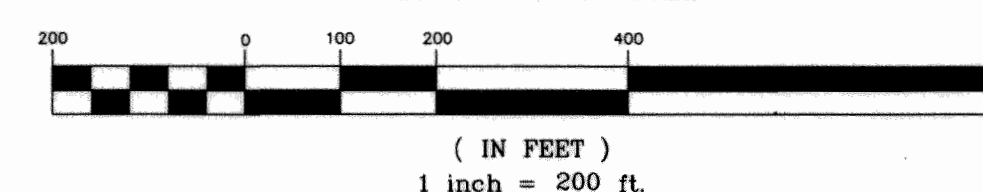
- FOUND POINT AS NOTED
- CALCULATED POINT
- ④⑥ FOUND POINT ID NUMBER
- ▲ CALCULATED POINT ID NUMBER
- — — CENTER LINE
- - - SECTION LINE

CONVERSION EQUATION

LOCAL NORTHING = GRID x 1.0001857931 - 26,000,000
LOCAL EASTING = GRID x 1.0001857931
GRID = LOCAL NORTHING + 26,000,000 x 0.9998142414
GRID = LOCAL EASTING x 0.9998142414

HORIZONTAL CONTROL PLANS ARE BASED ON RECORD OF SURVEY AS RECORDED BY PBS&J FILE 172, PAGE 0019.

GRAPHIC SCALE



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: AAS
CHECK BY: AAS
DRAWN BY: RFW
DATE: JUNE 2011

CITY OF LAS VEGAS

TITLE: OAKLEY MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

SHEET: 7 of 79

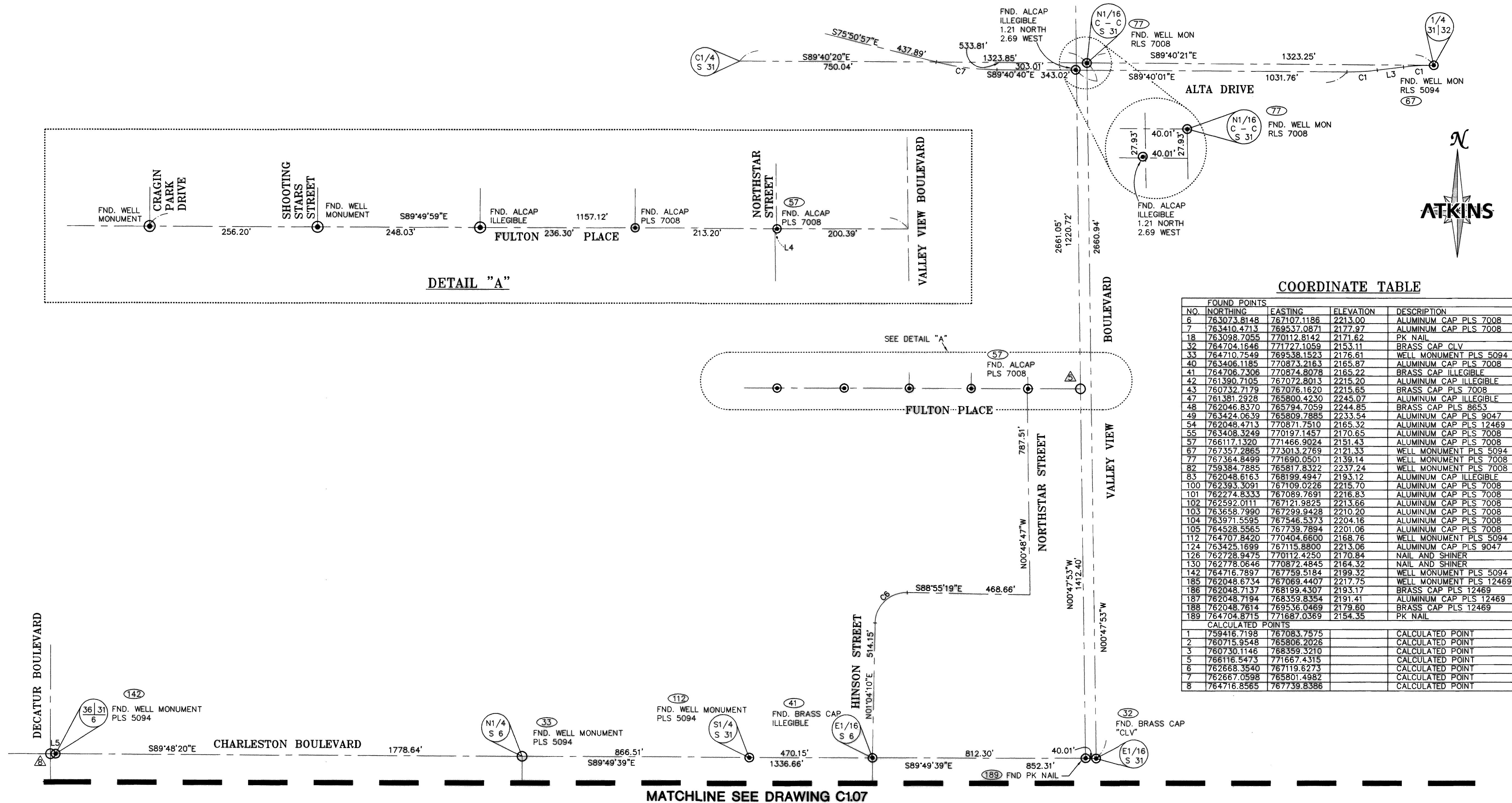
HORIZONTAL CONTROL PLAN 2

C1.07

7 of 79

DRAWING: 327v284-3

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LEGEND

- FOUND POINT AS NOTED
- CALCULATED POINT
- ④⑥ FOUND POINT ID NUMBER
- △ CALCULATED POINT ID NUMBER
- — — CENTER LINE
- — — SECTION LINE

LINE TABLE

LINE	BEARING	DISTANCE
L1	N89°56'37"E	29.21'
L2	N01°46'01"W	76.38'
L3	N82°31'46"E	99.79'
L4	S89°15'02"E	3.00'
L5	N89°48'20"W	19.68'
L6	S00°00'54"W	188.30'
L7	N38°15'14"E	398.28'
L8	N01°55'58"E	27.32'
L9	N09°13'50"E	120.23'
L10	N01°46'01"W	482.03'

CURVE TABLE

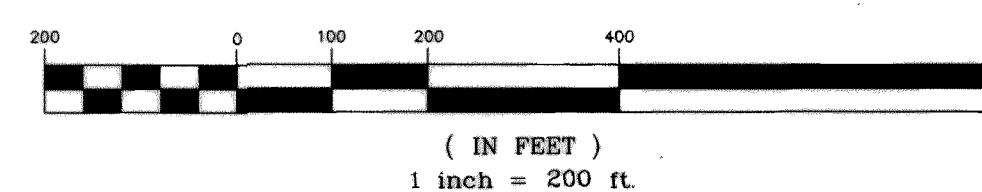
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	892.27'	07°28'13"	116.34'	58.25'
C2	900.00'	38°14'20"	600.66'	312.00'
C3	1568.16'	07°17'52"	199.74'	100.00'
C4	900.00'	40°01'15"	628.65'	327.76'
C5	1039.01'	10°59'51"	199.43'	100.02'
C6	120.00'	90°00'31"	188.51'	120.02'
C7	970.43'	13°49'43"	234.22'	117.68'

CONVERSION EQUATION

LOCAL NORTHING = GRID x 1.0001857931 - 26,000,000
LOCAL EASTING = GRID x 1.0001857931
GRID = LOCAL NORTHING + 26,000,000 x 0.9998142414
GRID = LOCAL EASTING x 0.9998142414

HORIZONTAL CONTROL PLANS ARE BASED ON RECORD OF SURVEY AS RECORDED BY PBS&J FILE 172, PAGE 0019.

GRAPHIC SCALE



COORDINATE TABLE

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	763073.8148	767107.1186	2213.00	ALUMINUM CAP PLS 7008
7	763410.4713	768537.0871	2177.97	ALUMINUM CAP PLS 7008
18	763098.7055	770112.8142	2171.62	PK NAIL
32	764704.1646	771727.1059	2153.11	BRASS CAP CLV
33	764710.7549	769538.1523	2176.61	WELL MONUMENT PLS 5094
40	763406.1185	770873.2163	2165.87	ALUMINUM CAP PLS 7008
41	764706.7306	770874.8078	2165.22	BRASS CAP ILLEGIBLE
42	761390.7105	767072.8013	2215.20	ALUMINUM CAP ILLEGIBLE
43	760732.7179	767076.1620	2215.65	BRASS CAP PLS 7008
47	761381.2928	765800.4230	2245.07	ALUMINUM CAP ILLEGIBLE
48	762046.8370	765794.7059	2244.85	BRASS CAP PLS 8653
49	763424.0639	765809.7885	2233.54	ALUMINUM CAP PLS 9047
54	762048.4713	770871.7510	2165.32	ALUMINUM CAP PLS 12469
55	763408.3249	770197.1457	2170.65	ALUMINUM CAP PLS 7008
57	766117.1320	771466.9024	2151.43	ALUMINUM CAP PLS 7008
67	767357.2865	773013.2769	2121.33	WELL MONUMENT PLS 5094
77	767364.8499	771690.0501	2139.14	WELL MONUMENT PLS 7008
82	759384.7885	765817.8322	2237.24	WELL MONUMENT PLS 7008
83	762048.6163	768199.4947	2193.12	ALUMINUM CAP ILLEGIBLE
100	762393.3091	767109.0226	2215.70	ALUMINUM CAP PLS 7008
101	762274.8333	767089.7691	2216.83	ALUMINUM CAP PLS 7008
102	762592.0111	767121.9825	2213.66	ALUMINUM CAP PLS 7008
103	763658.7990	767299.9428	2210.20	ALUMINUM CAP PLS 7008
104	763971.5595	767546.5373	2204.16	ALUMINUM CAP PLS 7008
105	764528.5565	767739.7894	2201.06	ALUMINUM CAP PLS 7008
112	764707.8420	770404.6600	2168.76	WELL MONUMENT PLS 5094
124	763425.1699	767115.8800	2213.06	ALUMINUM CAP PLS 9047
126	762728.9475	770112.4250	2170.84	NAIL AND SHINER
130	762778.0646	770872.4845	2164.32	NAIL AND SHINER
142	764716.7897	767759.5184	2199.32	WELL MONUMENT PLS 5094
185	762048.6734	767069.4407	2217.75	WELL MONUMENT PLS 12469
186	762048.7137	768199.4307	2193.17	BRASS CAP PLS 12469
187	762048.7194	768359.8354	2191.41	ALUMINUM CAP PLS 12469
188	762048.7614	769536.0469	2179.60	BRASS CAP PLS 12469
189	764704.8715	771687.0369	2154.35	PK NAIL
CALCULATED POINTS				
1	759416.7193	767083.7575		CALCULATED POINT
2	760715.9548	765806.2026		CALCULATED POINT
3	760730.1146	768359.3210		CALCULATED POINT
5	768116.5473	771667.4315		CALCULATED POINT
6	762668.3540	767119.6273		CALCULATED POINT
7	762667.0598	765801.4982		CALCULATED POINT
8	764716.8565	767739.8386		CALCULATED POINT



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION



OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

HORIZONTAL CONTROL PLAN 3



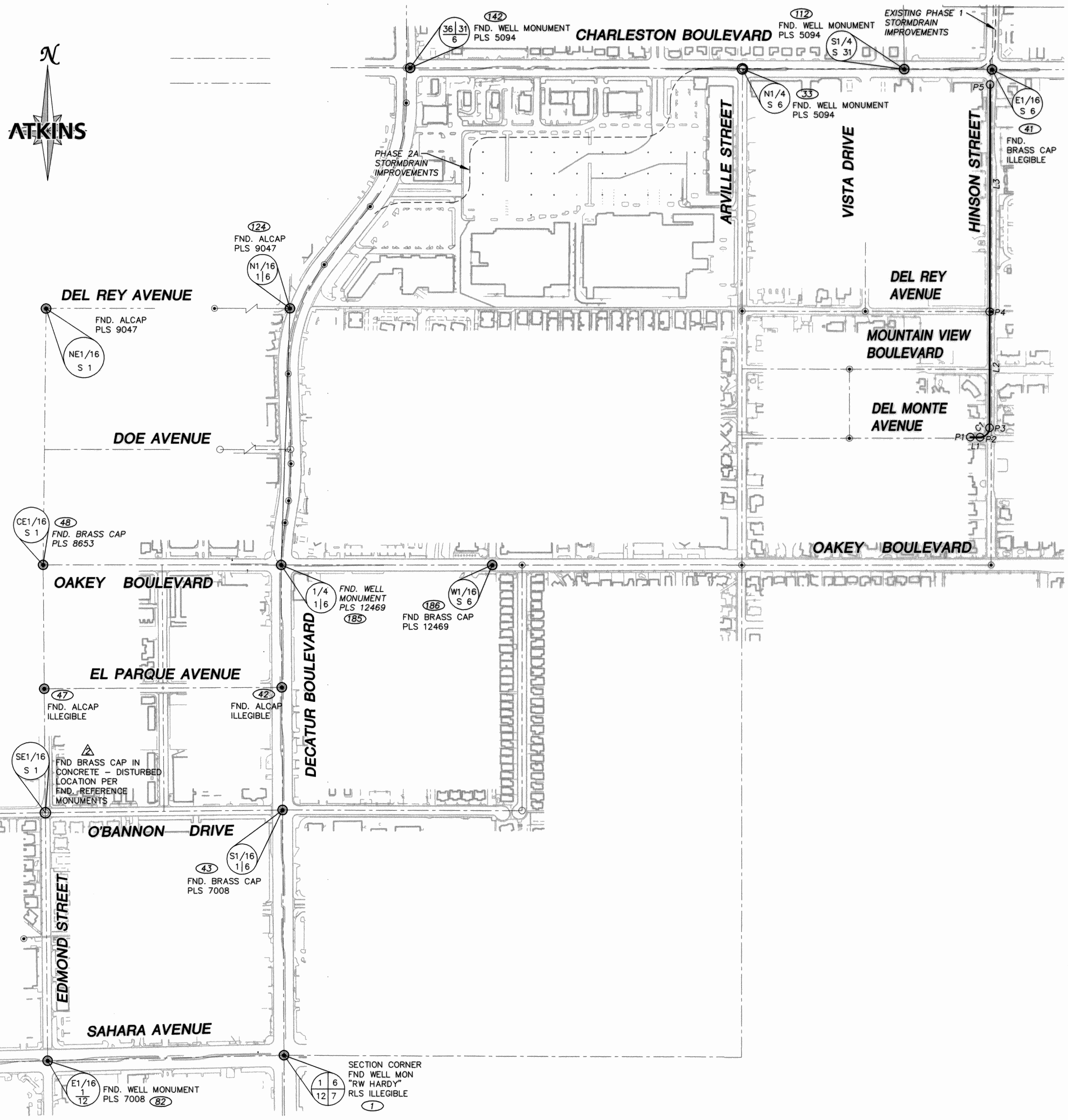
SHEET: C1.08
DRAWING: 327V284-3



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FEDERAL PROJECT MS-0003(146)

X:\Transportation Design Nevada\Projects\511566\PHASE 2B Sheets\PH2B C1.09 - 6-29-11 01:07pm



LINE DATA

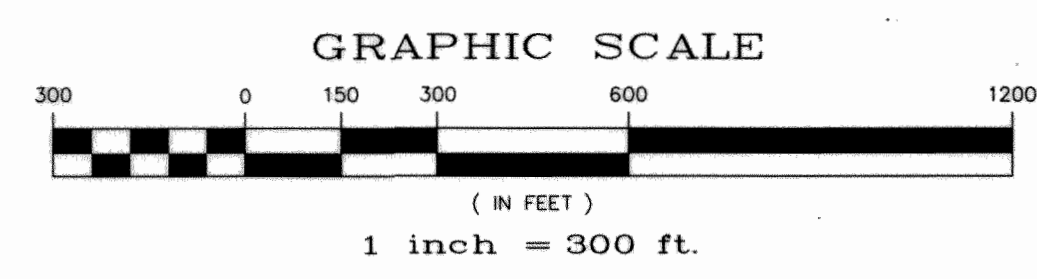
No.	BEARING	LENGTH
L1	S89°30'28"E	52.51'
L2	N00°03'43"E	622.35'
L3	N00°04'12"E	1220.00'

CURVE DATA

No.	RADIUS	DELTA	LENGTH	TANGENT
C1	50.00'	90°25'50"	78.92'	50.38'

COORDINATE TABLE

No.	NORTHING	EASTING	STORM DRAIN CL STATION	ROADWAY CL STATION	DESCRIPTION
P1	762731.9992	770763.5878	84+02.22	58+87.03, 11.17' LT	BEGIN SD
P2	762733.8323	770812.1151	84+54.73	59+39.54, 11.17' LT	PC
P3	762783.7765	770862.5446	85+33.65	3+77.65, 10.00' LT	PT
P4	763406.1300	770863.2163	91+56.00	10+00.00, 10.00' LT	HORIZ. & PT.
P5	764626.1304	770864.7091	103+76.00	27+20.00, 10.00' LT	END SD



REFER TO SHEETS C1.06-C1.08 FOR FOUND POINTS
REFER TO SHEETS C1.06-C1.08 FOR CALCULATED POINTS

REFER TO SHEET 1.06 - 1.08 FOR PROJECT CONTROL.



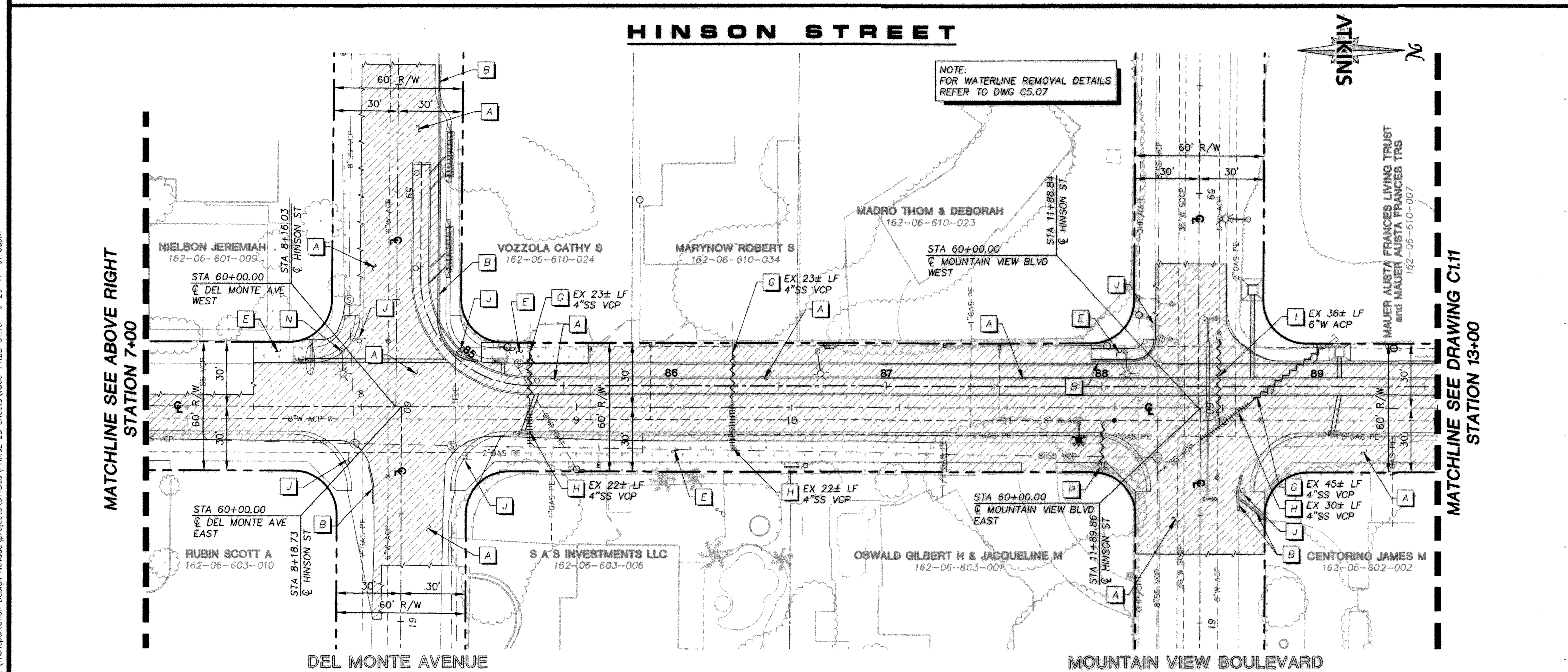
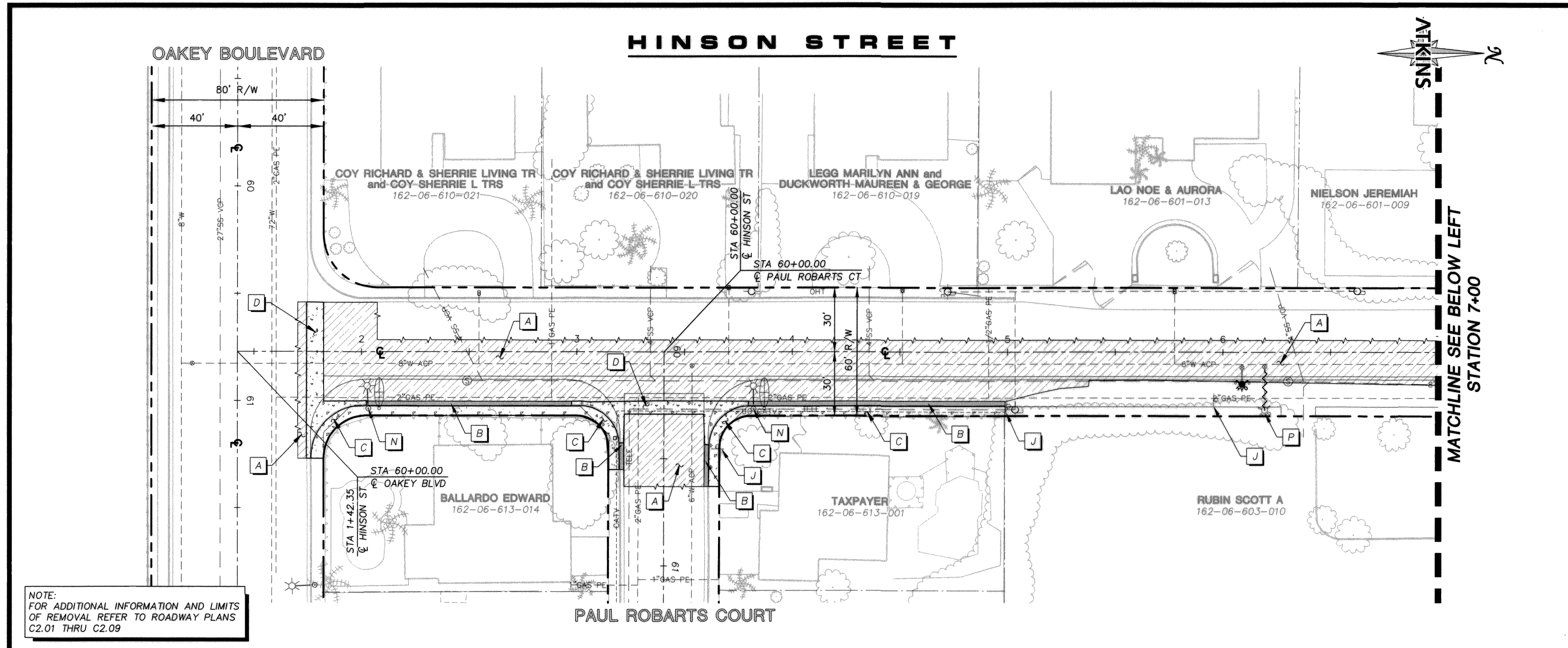
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
CHECK BY: AAS
DRAWN BY: RFW
DATE: JUNE 2011

ALIGNMENT CONTROL PLAN

C1.09
9 of 79
DRAWING# 327V284-3

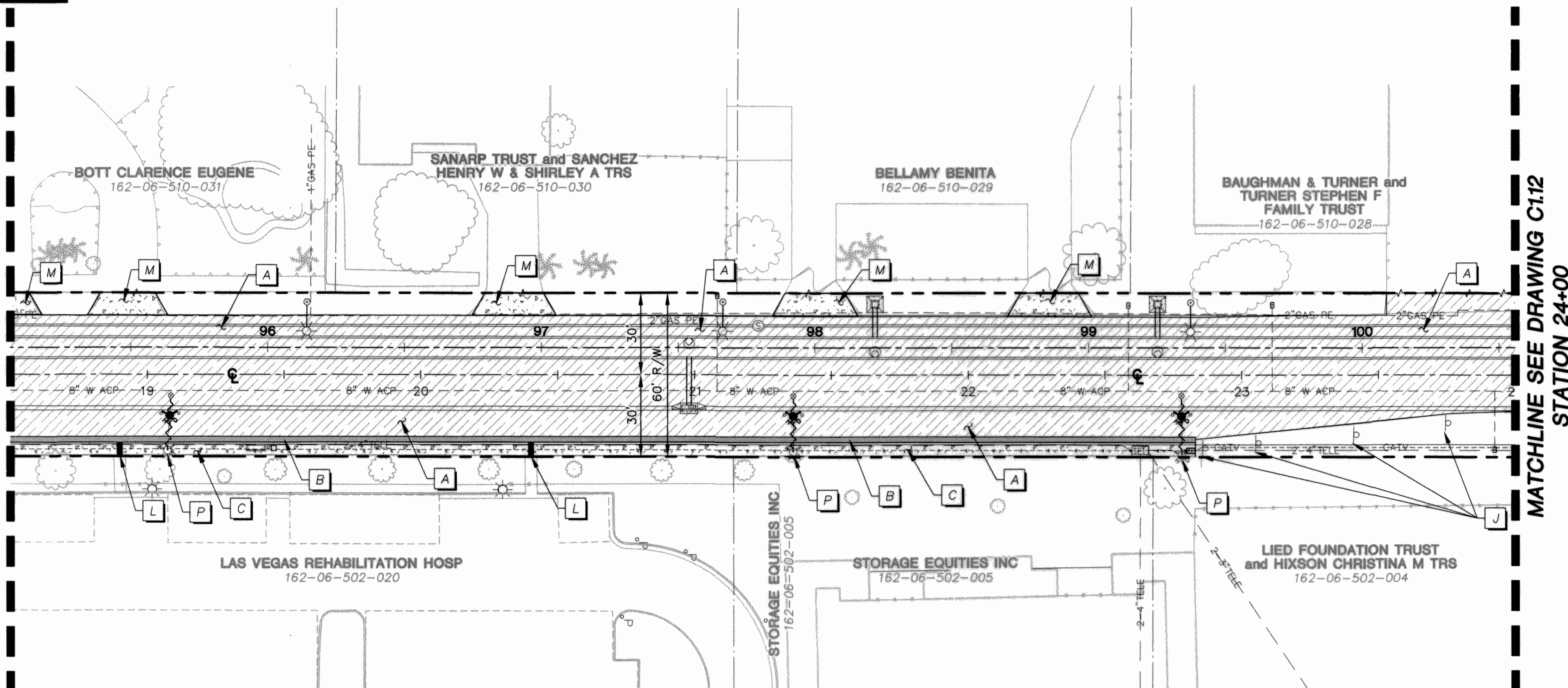


KEY NOTES

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NOTE:
FOR ADDITIONAL INFORMATION AND LIMITS
OF REMOVAL REFER TO ROADWAY PLANS
C2.01 THRU C2.09

MATCHLINE SEE ABOVE RIGHT
STATION 18+50



MATCHLINE SEE DRAWING C1.12
STATION 24+00

HINSON STREET



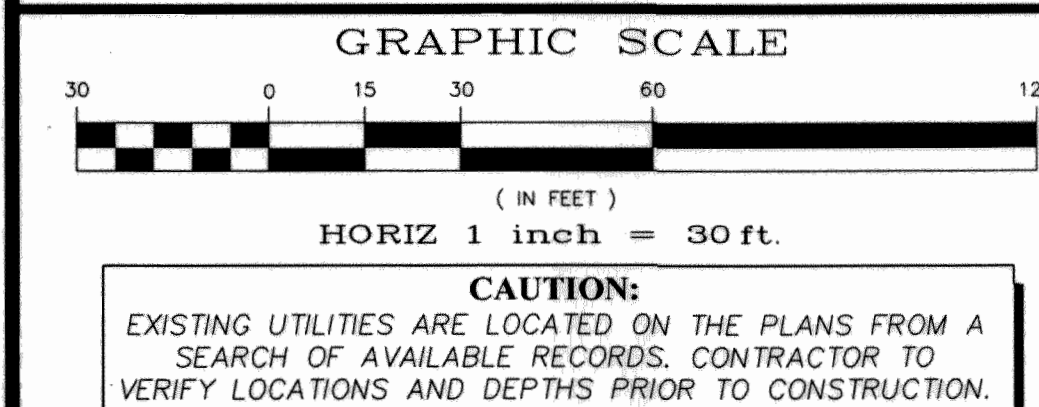
APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
Date _____ Project No. 116737 ESN 018

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1-800-227-2600

FAST
Call before you UnderGround
1-702-432-5300

CALL BEFORE YOU DIG
OVERHEAD
1-702-227-2929



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STEVEN M. BELLINO
EXP. 12-31-12
CIVIL
No. 19040

SHEET: **C1.11**
11 of 79
DRAWING: 327V284-3

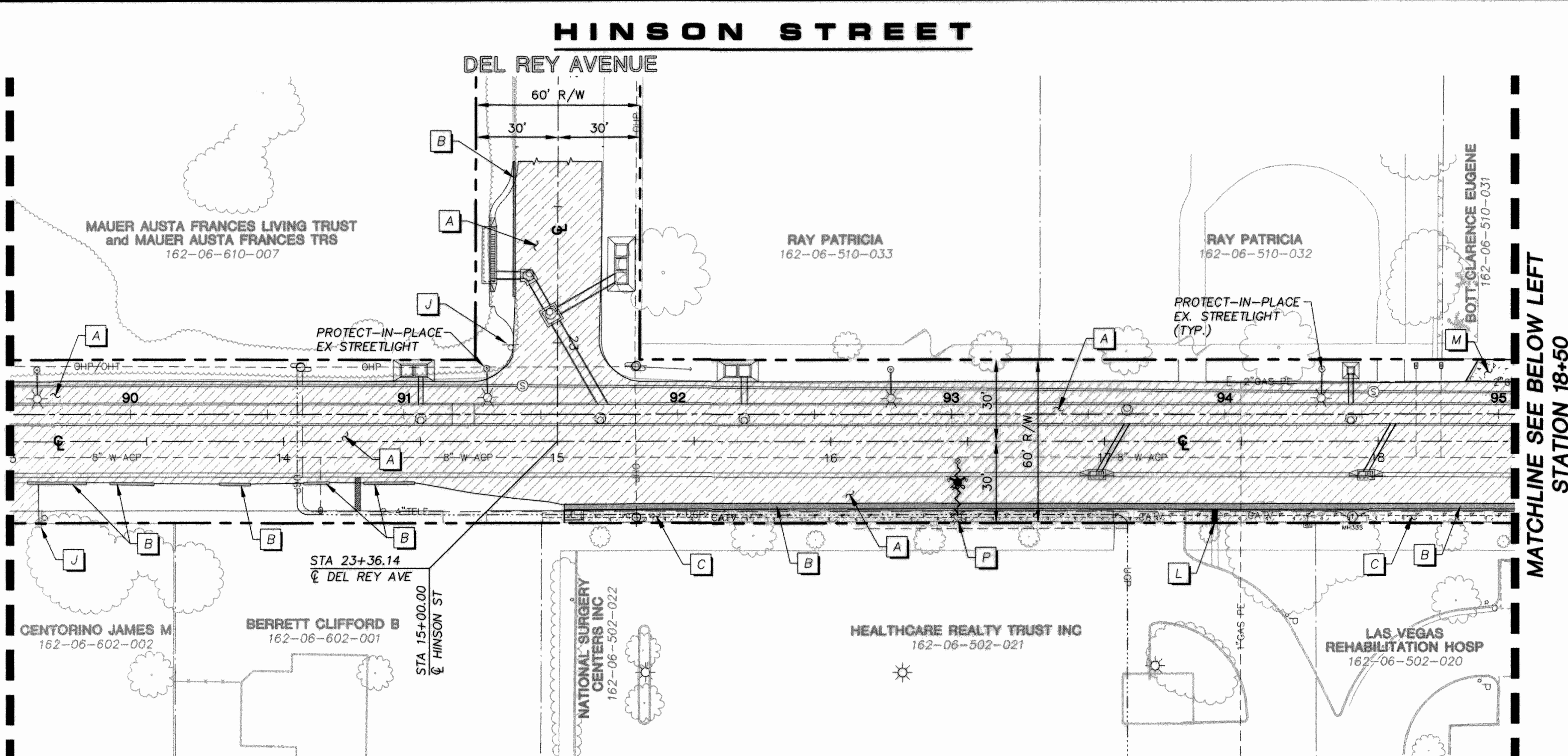
TITLE: **OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET**

REMOVAL PLANS
STA 13+00.00 TO STA 24+00.00

**DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION**

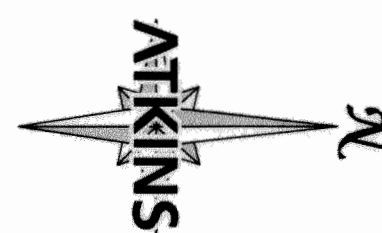
CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
CHECK BY: AAS
DRAWN BY: RPW
DATE: JUNE 2011

MATCHLINE SEE DRAWING C1.10
STATION 13+00



MATCHLINE SEE BELOW LEFT
STATION 18+50

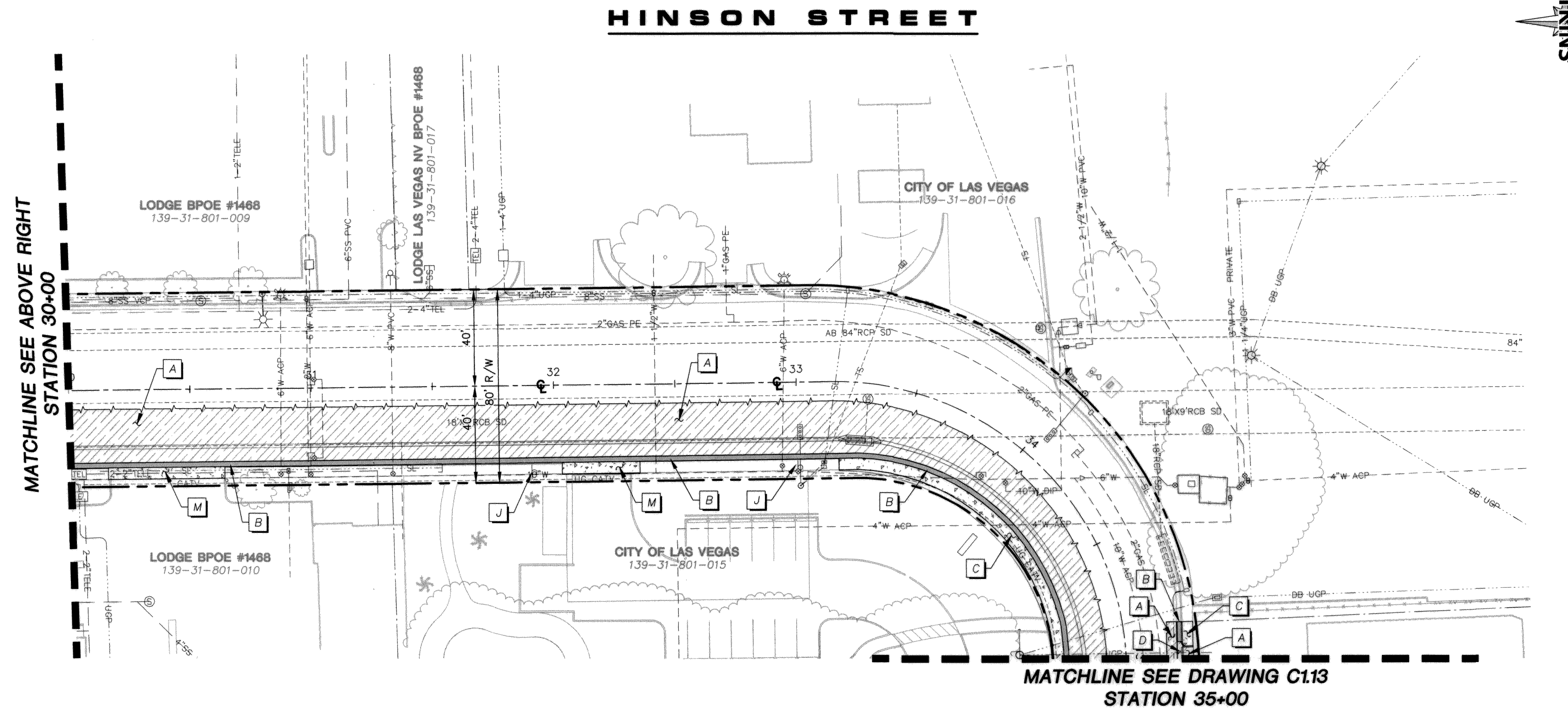
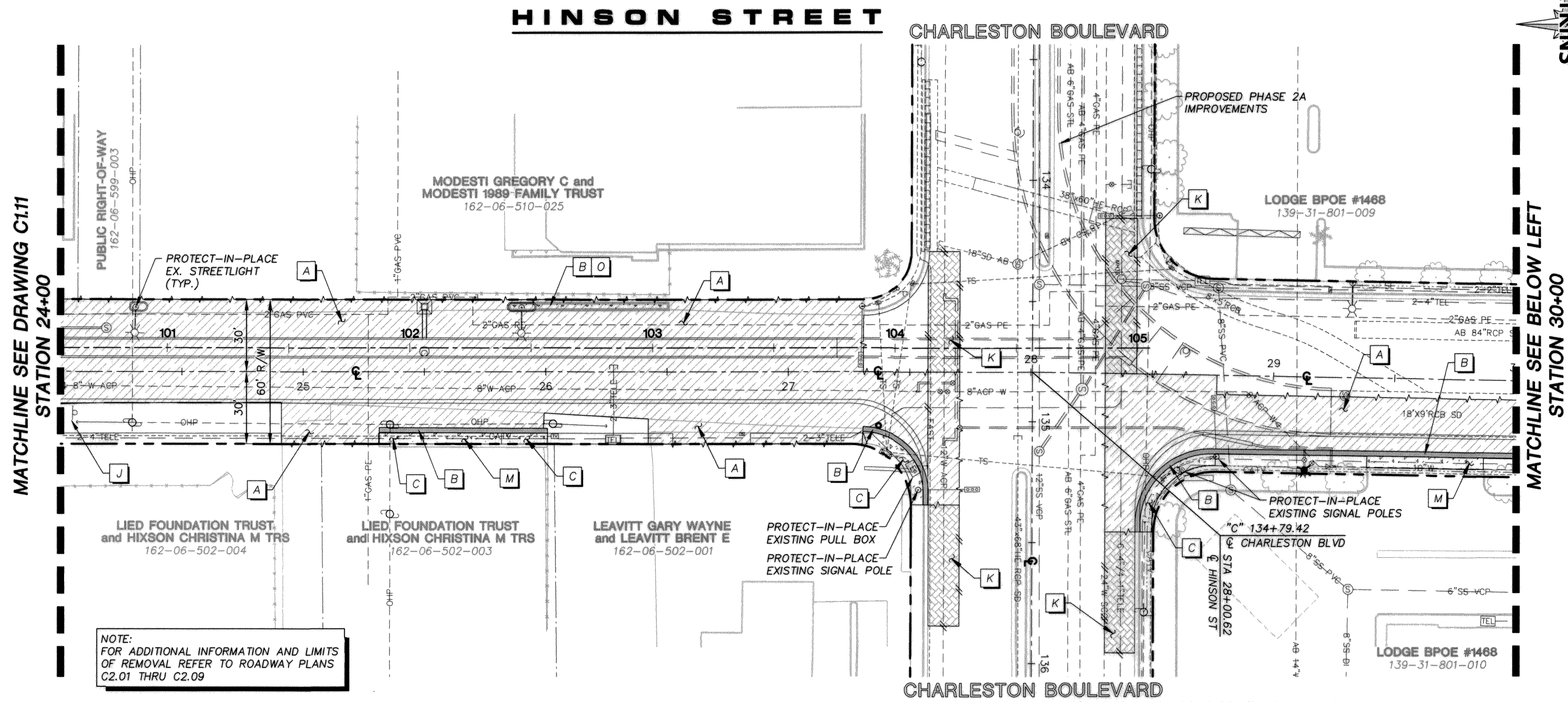
HINSON STREET



- KEY NOTES**
- A EXISTING PAVEMENT SECTION TO BE REMOVED
 - B EXISTING CURB AND GUTTER TO BE REMOVED
 - C EXISTING CONCRETE SIDEWALK TO BE REMOVED
 - D EXISTING CROSS GUTTER TO BE REMOVED
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 - G EXISTING SANITARY SEWER TO BE REMOVED
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 - I EXISTING WATERLINE TO BE REMOVED
 - J EXISTING SIGN TO BE REMOVED & SALVAGED
 - K EXISTING PAVEMENT TO BE COLD MILLED 1" PER DETAIL 1 DRAWING C1.15
 - L EXISTING SIDEWALK DRAIN TO BE REMOVED
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 - P EXISTING FIRE HYDRANT ASSEMBLY TO BE REMOVED
 - Q EXISTING BUMPER BLOCKS TO BE REMOVED

LEGEND

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- EXISTING LANDSCAPING TO BE REMOVED
- PIPE TO BE REMOVED
- PIPE TO BE ABANDONED

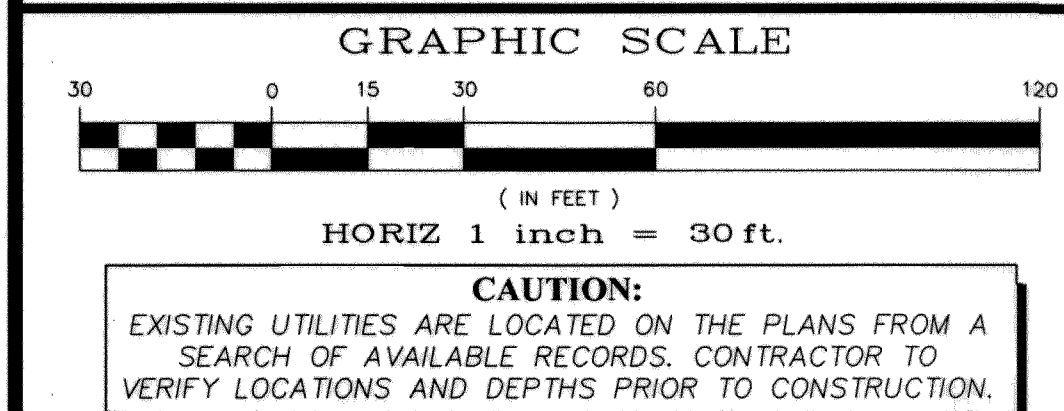


KEY NOTES

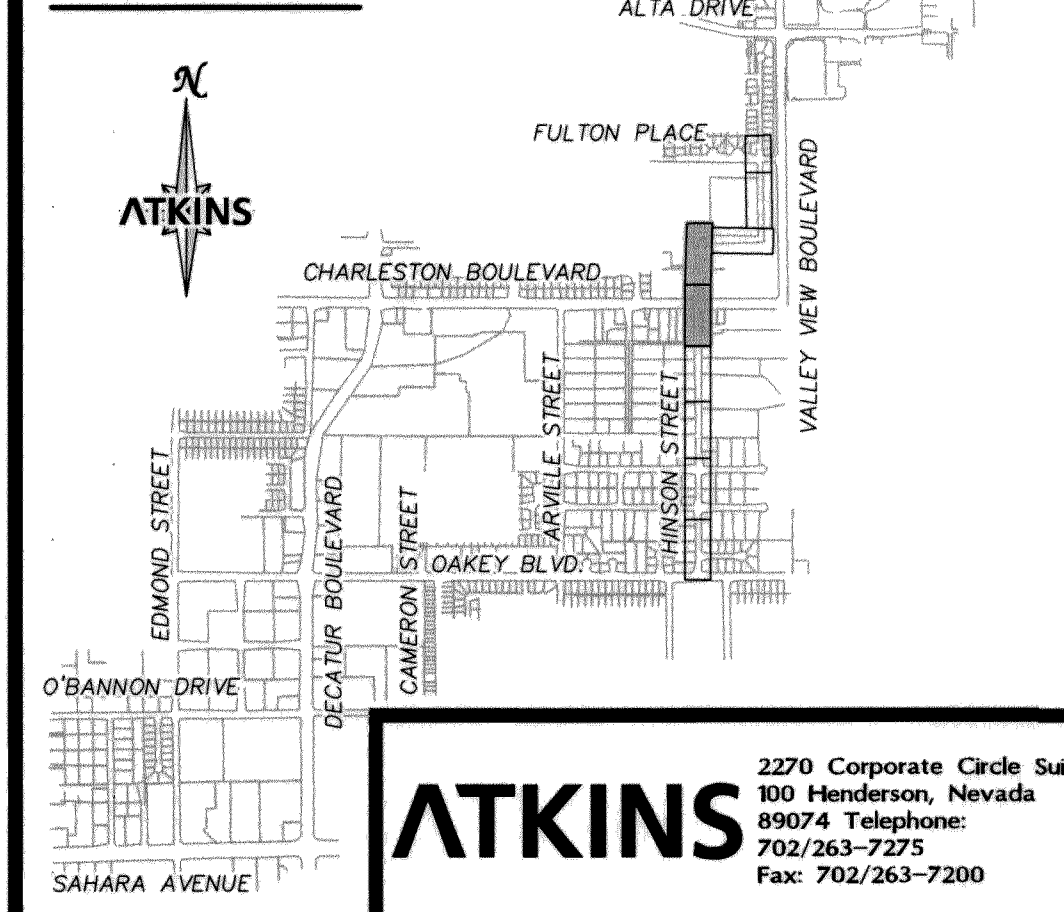
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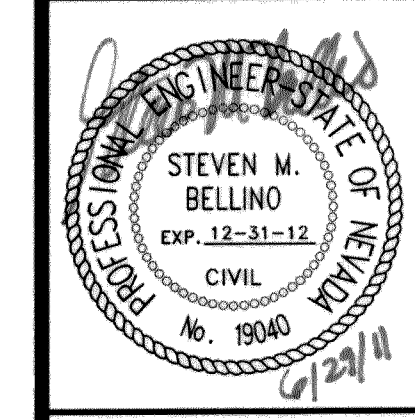
SHEET INDEX



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CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
CHECK BY: AAS
DRAWN BY: RPW
DATE: JUNE 2011

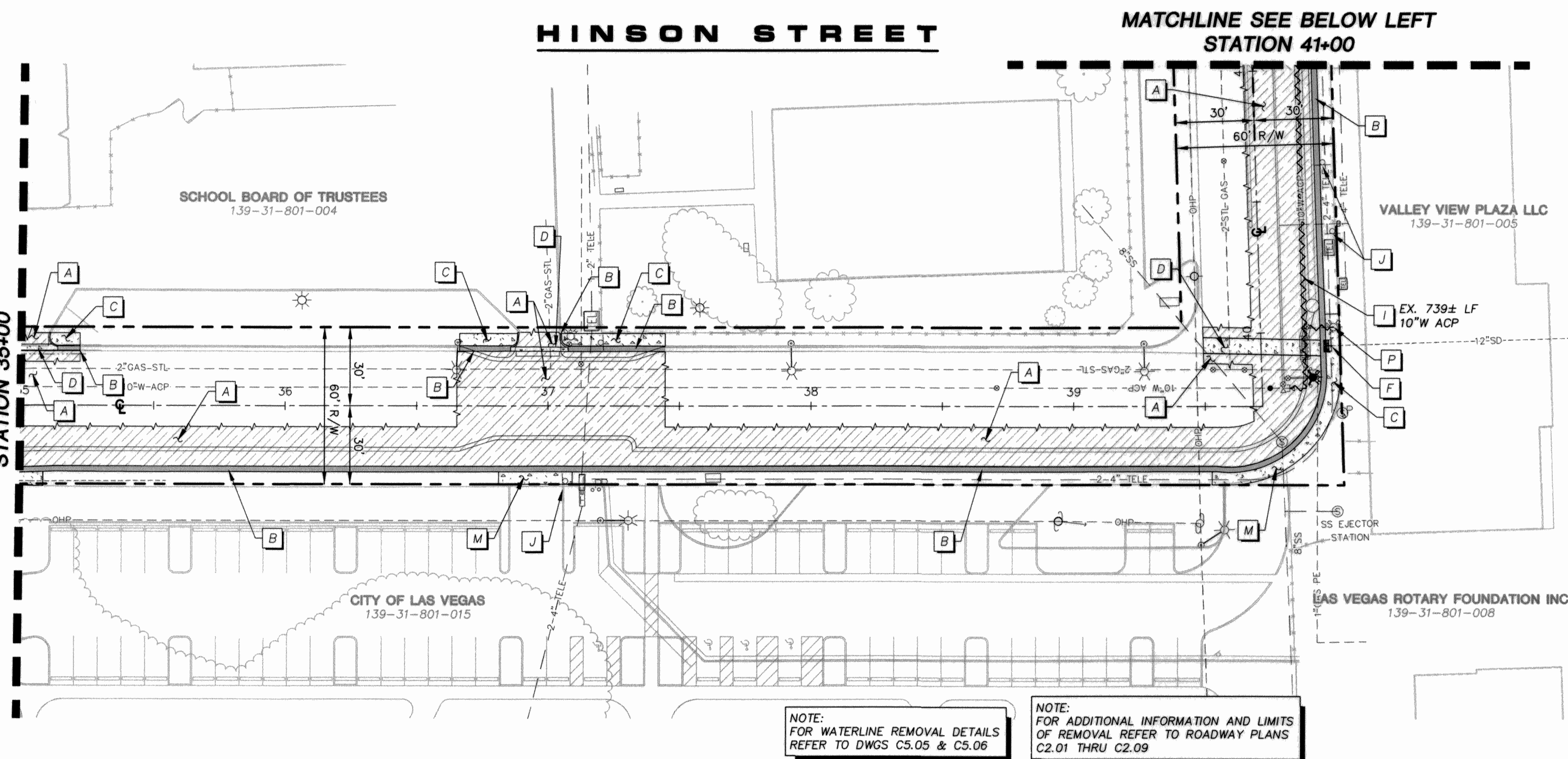
REMOVAL PLAN
STA 24+00.00 TO STA 35+00.00
TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET



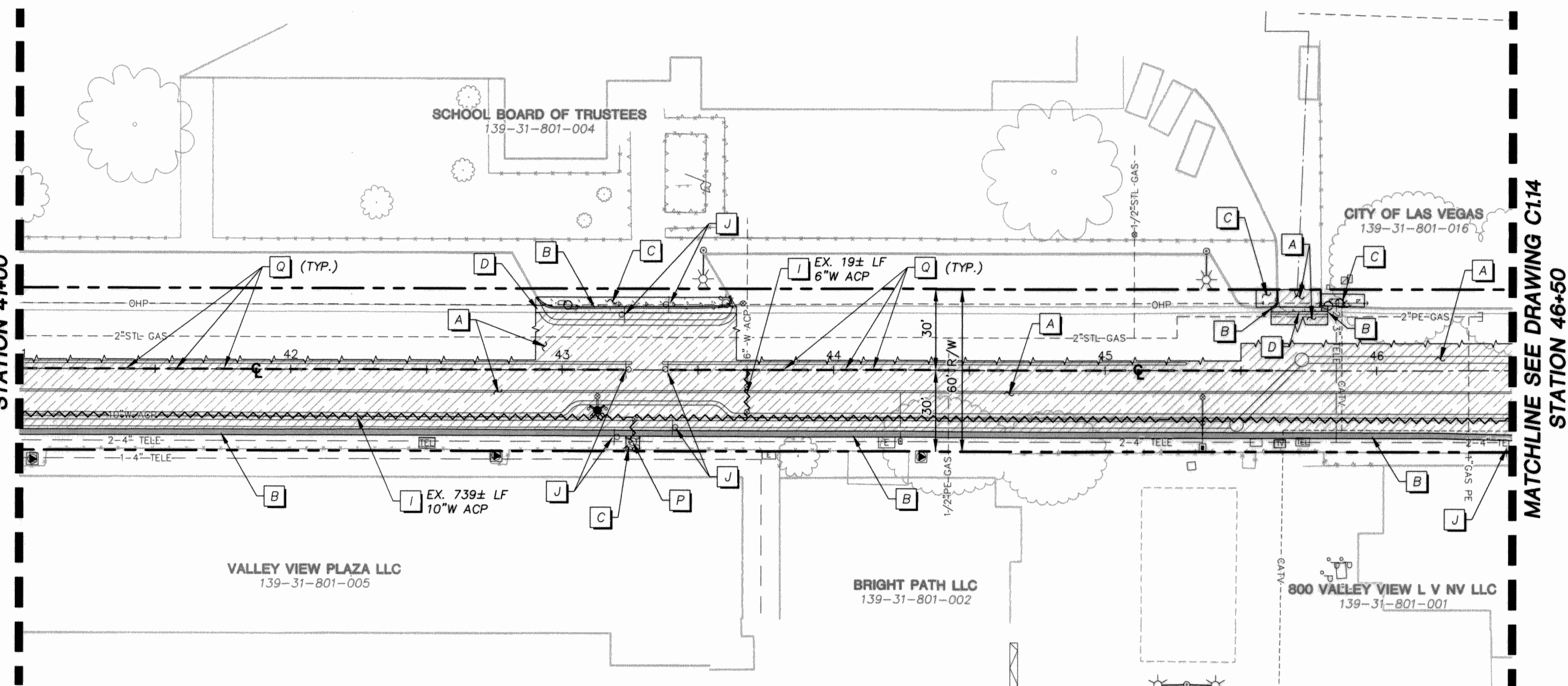
SHEET: **C1.12**
12 of 79
DRAWING# 327V284-3

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MATCHLINE SEE DRAWING C1.12
STATION 35+00



MATCHLINE SEE ABOVE RIGHT
STATION 41+00



KEY NOTES

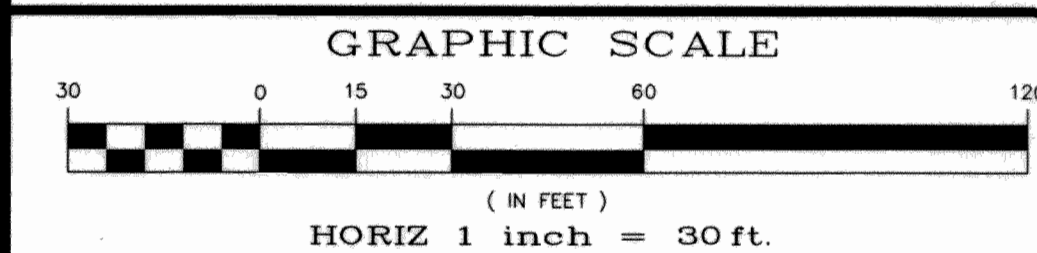
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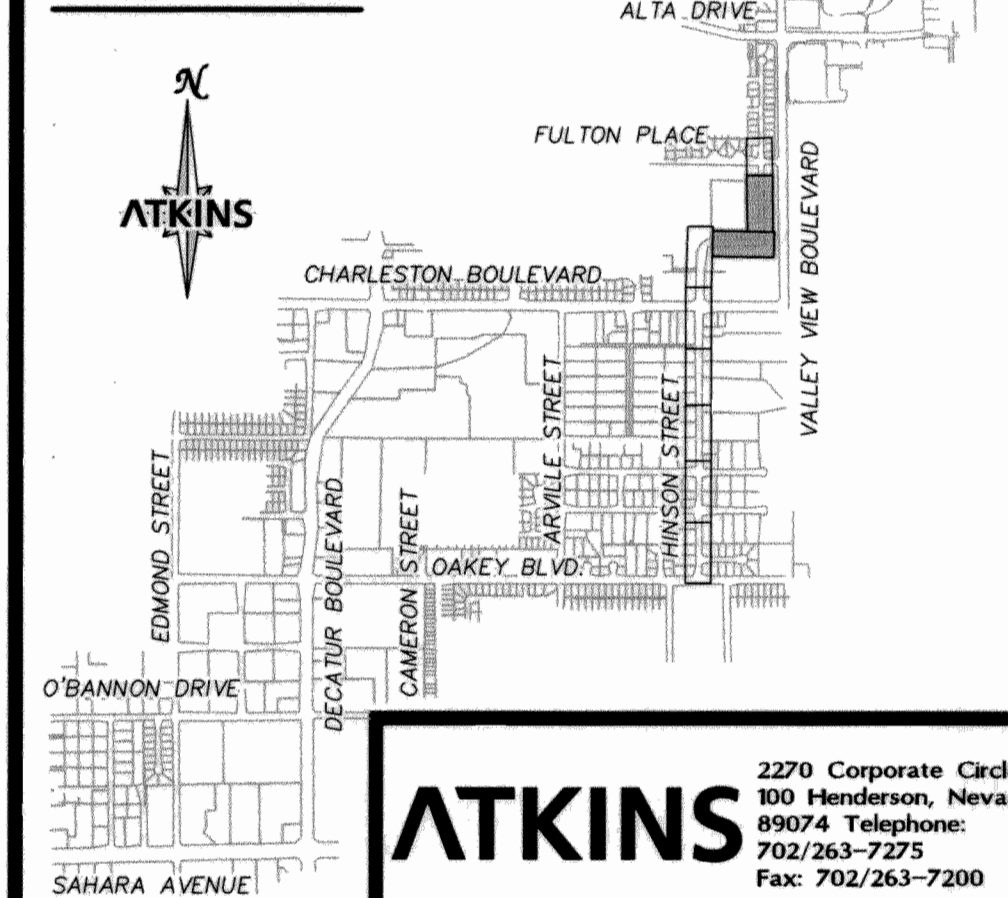
APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
Date _____ Project No. 118737 ESN 018



CAUTION:
EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

SHEET INDEX



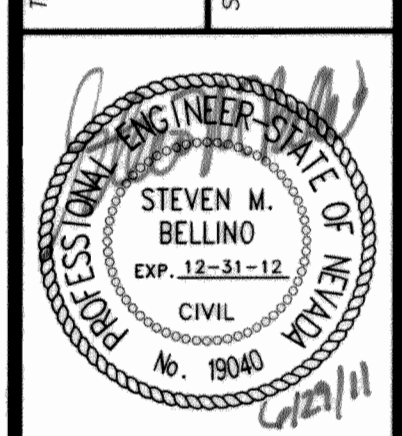
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CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
DRAWN BY: RPW
CHECK BY: AAS
DATE: JUNE 2011

TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

REMOVAL PLAN
STA 35+00.00 TO STA 46+50.00

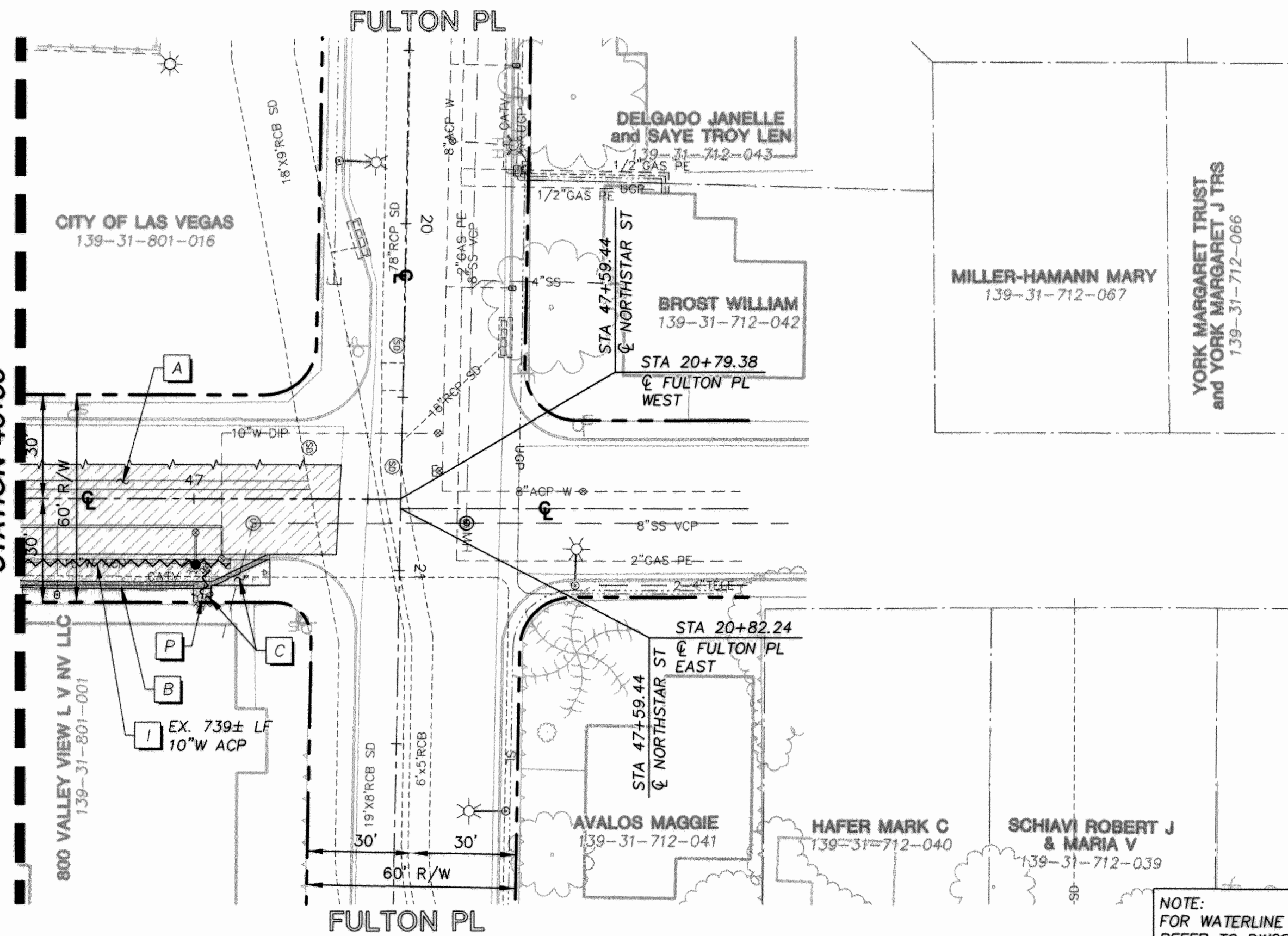


SHEET:

C1.13
13 of 79

DRAWING#
327V284-3

MATCHLINE SEE DRAWING C1.13
STATION 46+50



NOTE:
FOR WATERLINE REMOVAL DETAILS
REFER TO DWGS C5.05 & C5.06

NOTE:
FOR ADDITIONAL INFORMATION AND LIMITS
OF REMOVAL REFER TO ROADWAY PLANS
C2.01 THRU C2.09



KEY NOTES

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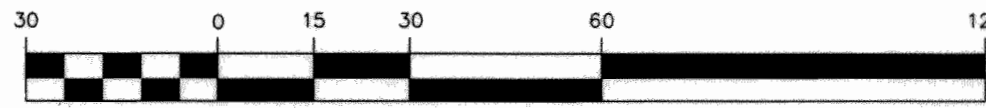
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- PIPE TO BE REMOVED
- PIPE TO BE ABANDONED

APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
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GRAPHIC SCALE

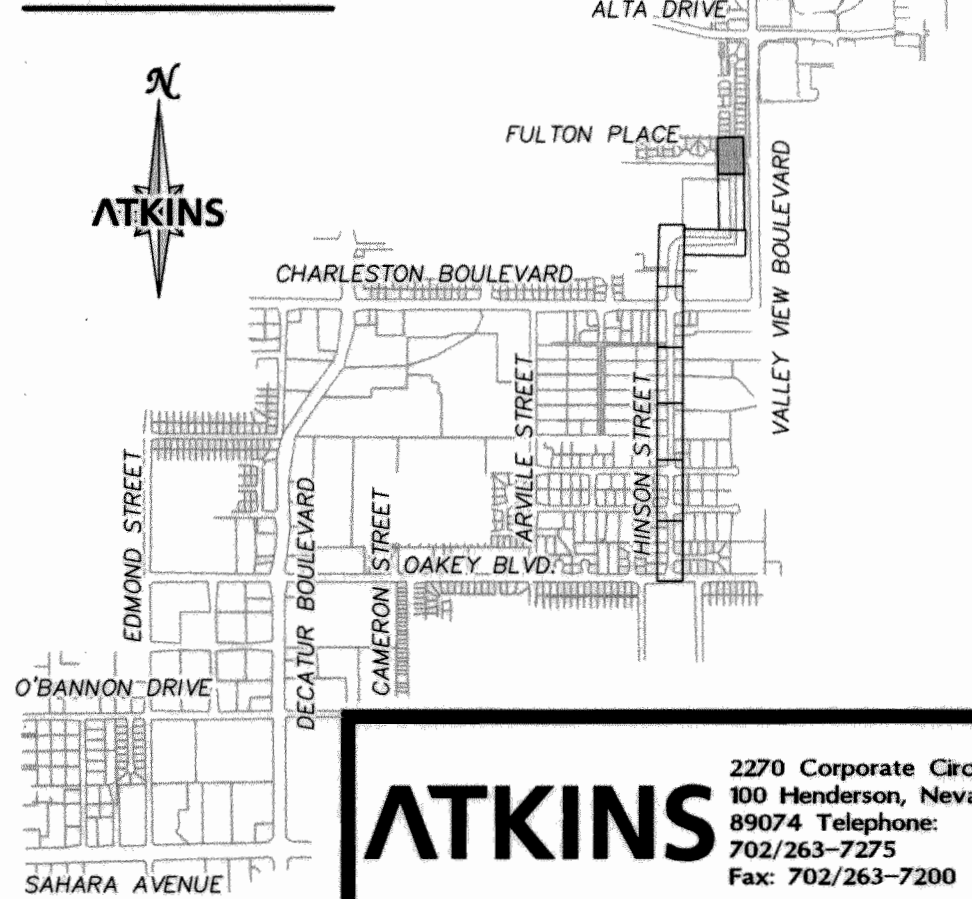


HORIZ 1 inch = 30 ft.

CAUTION:

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CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SNB
CHECK BY: AAS
DRAWN BY: RPW
DATE: JUNE 2011



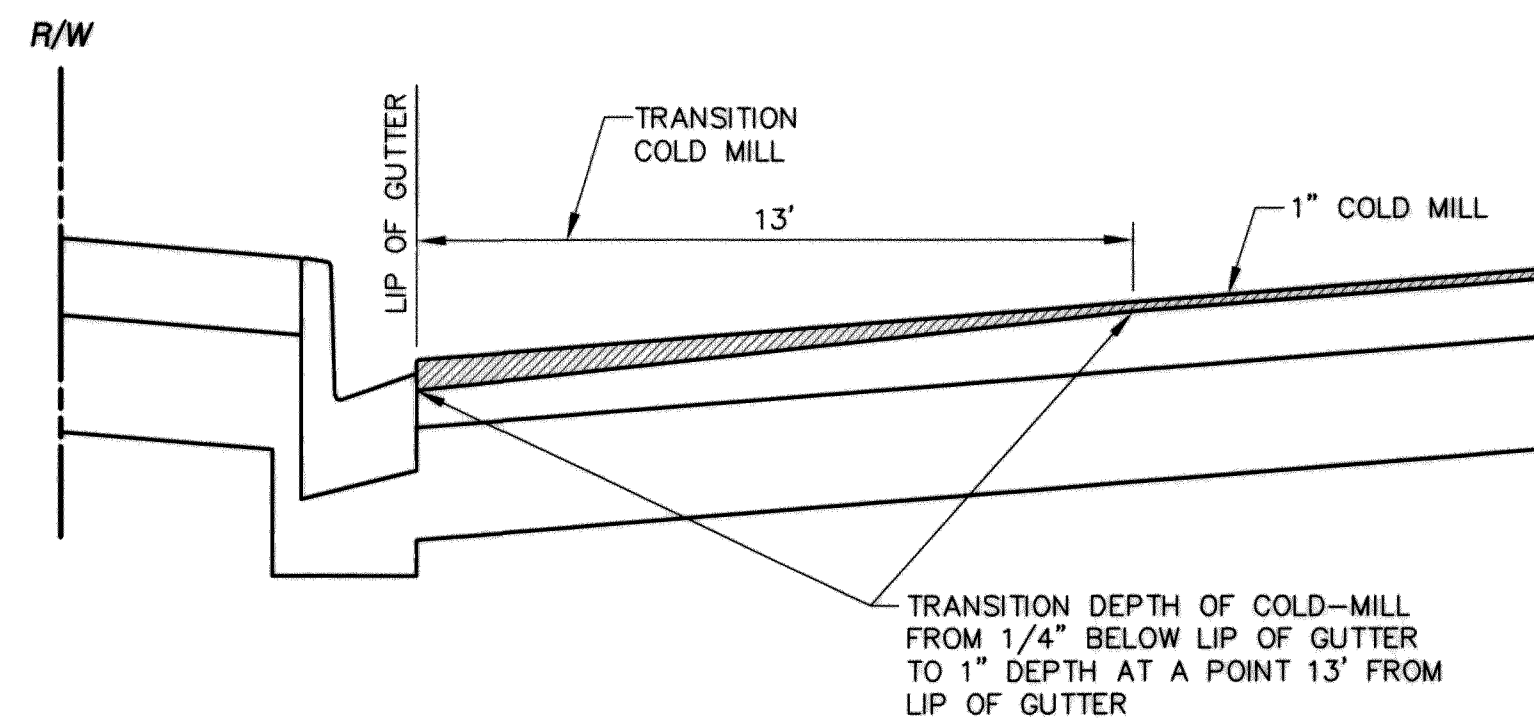
TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

REMOVAL PLAN
STA 46+50.00 TO END

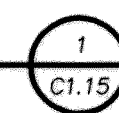


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327V284-3

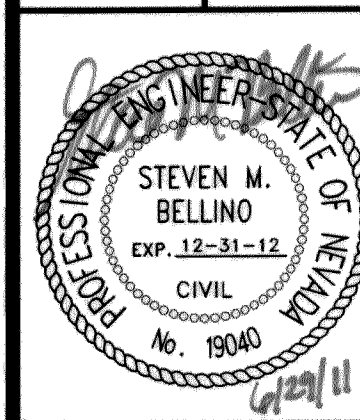
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COLD MILL OF EXISTING PAVEMENT
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2270 Corporate Circle Suite
100 Henderson, Nevada
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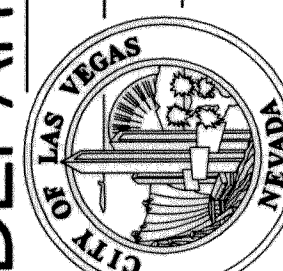
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327v284-3

TITLE:
**Oakey/Meadows Storm Drain
Phase 2B - Hinson Street from
Oakey Boulevard to Northstar Street**

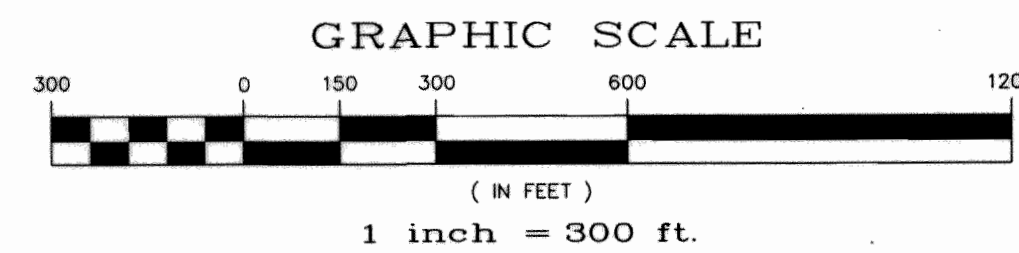
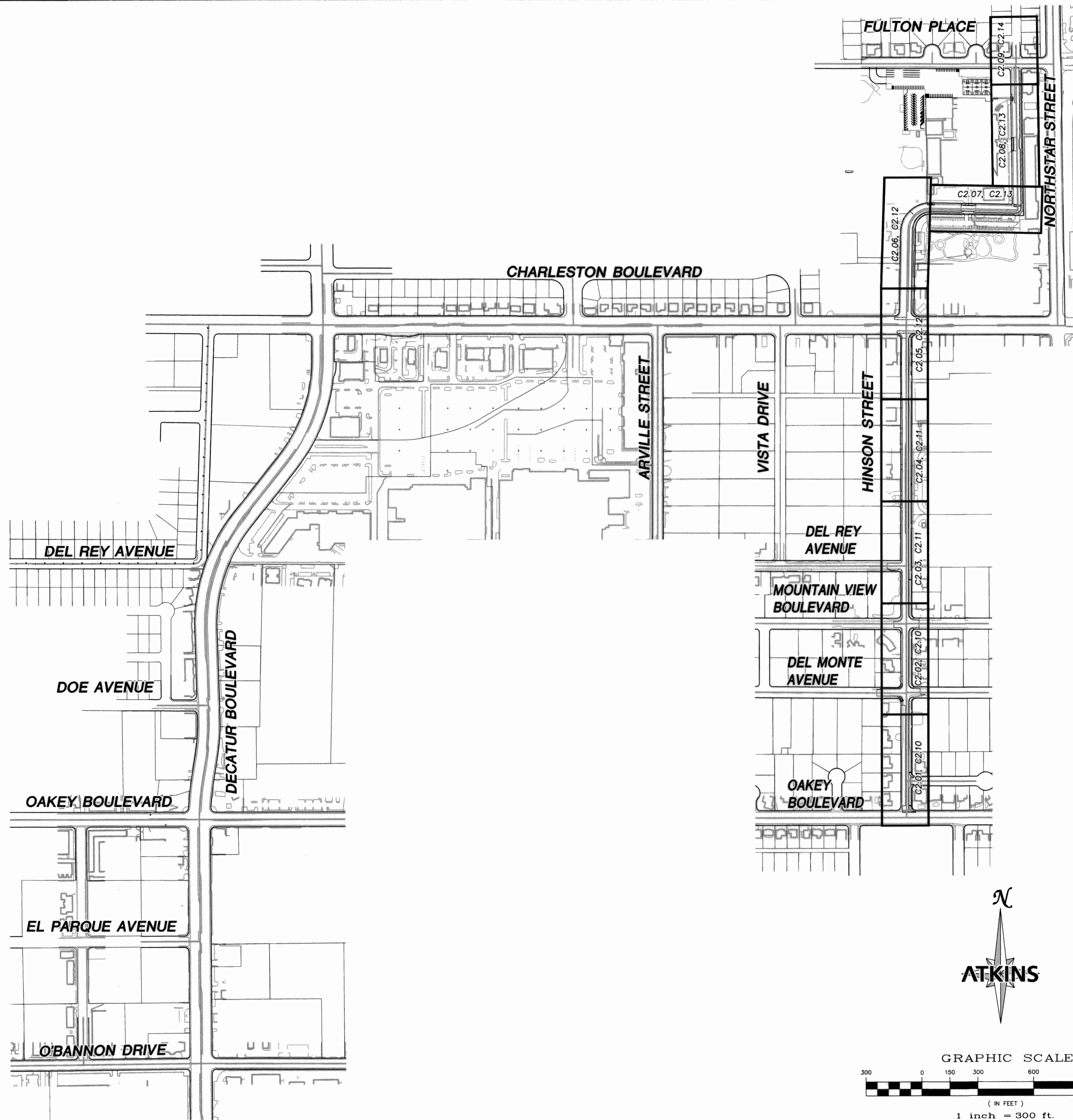
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REMOVAL DETAILS

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
CHECK BY: AAS
DRAWN BY: RPW
DATE: JUNE 2011

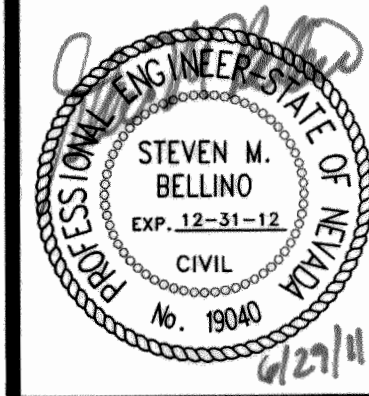


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800 Henderson, Nevada
89074 Telephone:
702/263-7275
Fax: 702/263-7200



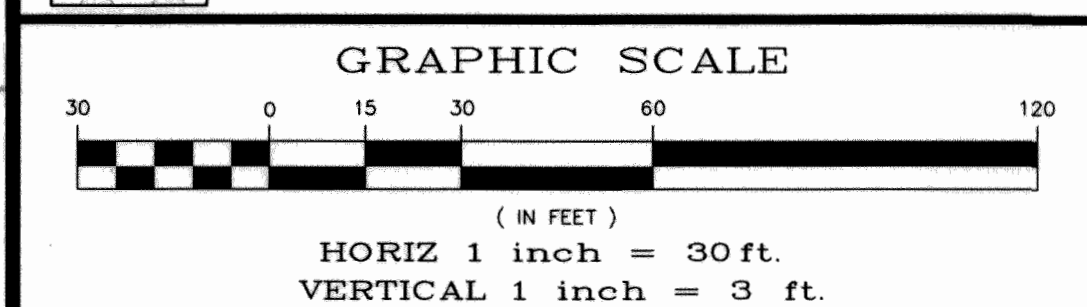
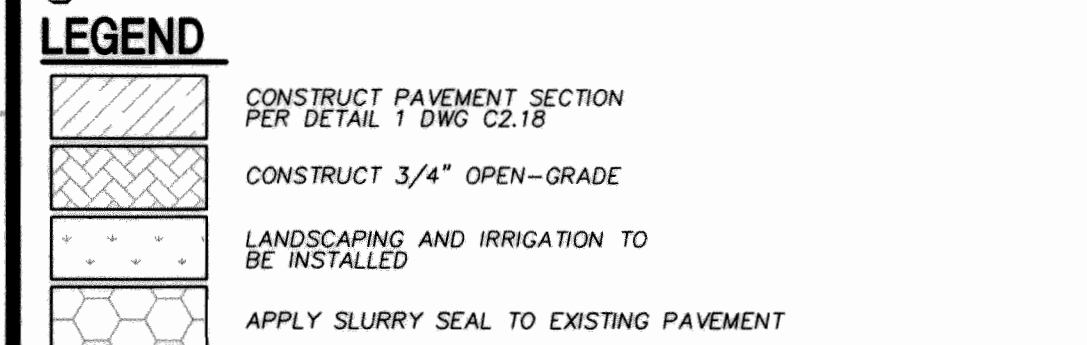
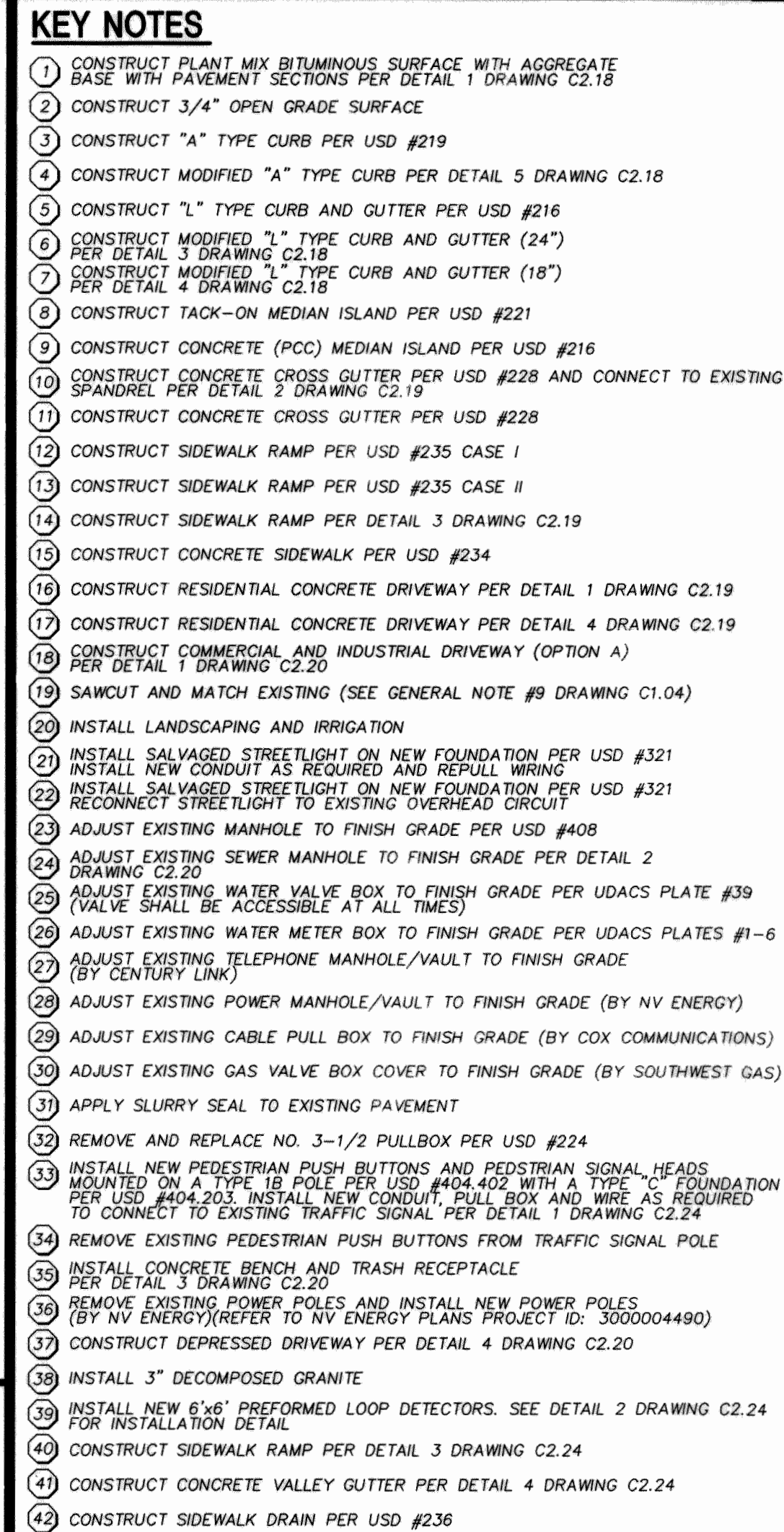
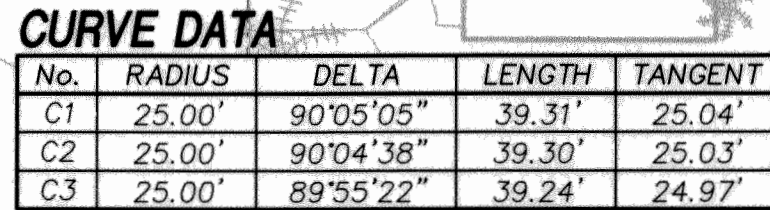
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION

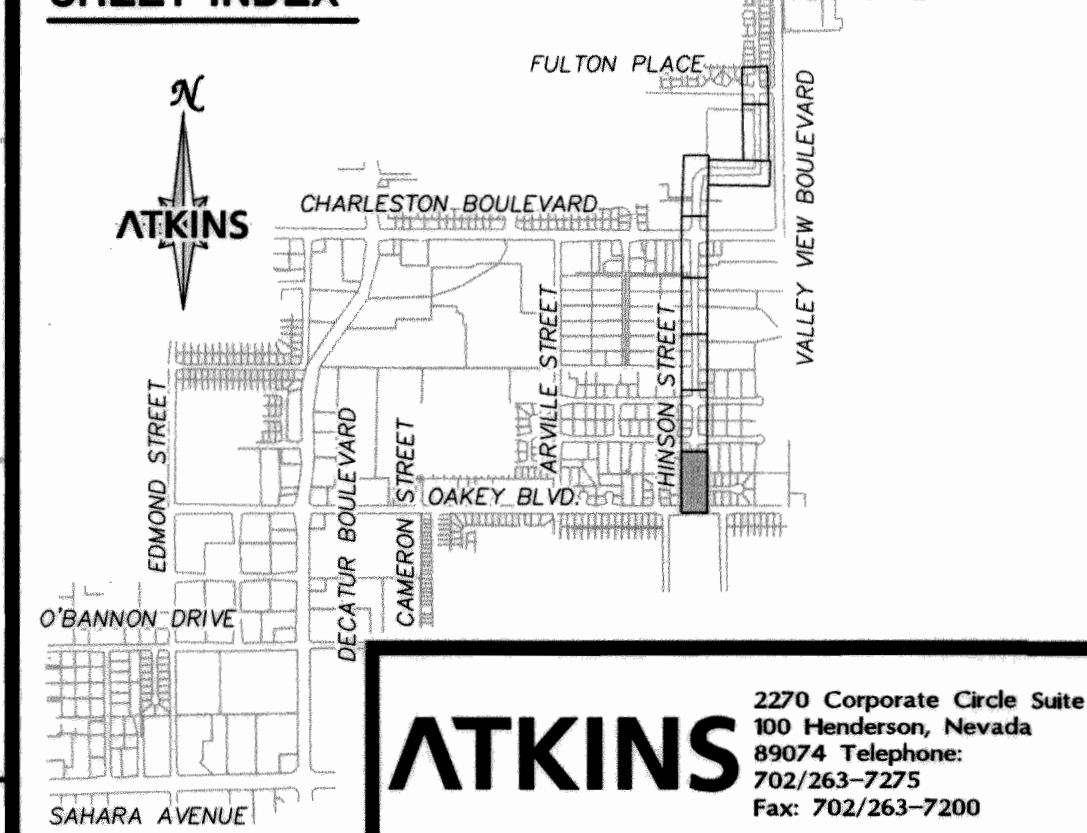
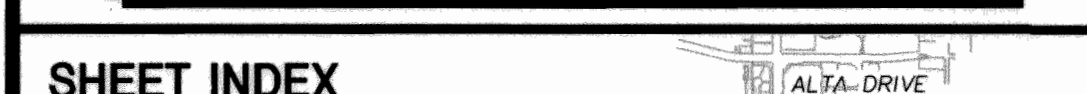
CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SMB
CHECK BY: AAS
DRAWN BY: RPW
DATE: JUNE 2011

TITLE: OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET

OVERALL ROADWAY PLAN



CAUTION:
EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.





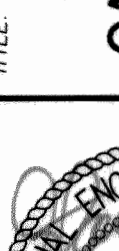
DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

CITY ENGINEER:	DAVID BOWERS, P.E., PTOE	
PROJECT MANAGER:	MICHAEL STURDIVANT, P.E.	
DESIGN BY:	ANGLO SPATA, P.E.	CHECK BY:
DRAWN BY:	SMB	DATE:
	RPW	JUNE 2011

LAKEY/MEADOWS STORM DRAIN
CASE 2B - HINSON STREET FROM
/ BOULEVARD TO NORTHSTAR STREET

ROADWAY PLANS
PLAN AND PROFILE
STA 1+42.35 TO STA 7+00.00

TITLE: **PHASE 1A OAKE** SHEET: **1**

 SHEET: **C2.01**
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 DRAWING: **327-284-3**

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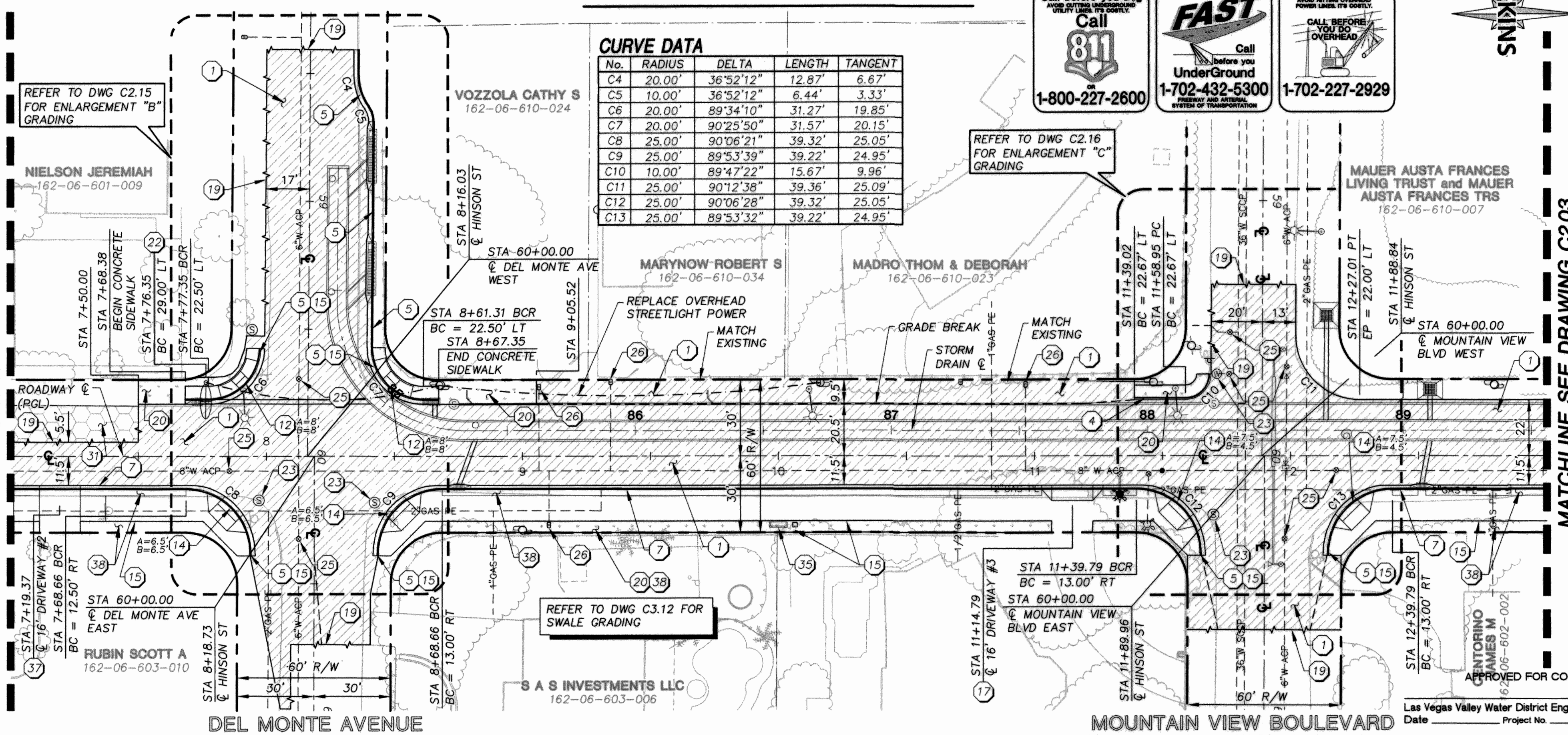
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STATION 7+00

MATCHLINE SEE DRAWING C2.01
STATION 7+00

MATCHLINE SEE DRAWING C2.03
STATION 13+00

MATCHLINE SEE DRAWING C2.03
STATION 13+00

HINSON STREET



CURVE DATA				
No.	RADIUS	DELTA	LENGTH	TANGENT
C4	20.00'	36°52'12"	12.87'	6.67'
C5	10.00'	36°52'12"	6.44'	3.33'
C6	20.00'	89°34'10"	31.27'	19.85'
C7	20.00'	90°25'50"	31.57'	20.15'
C8	25.00'	90°06'21"	39.32'	25.05'
C9	25.00'	89°53'39"	39.22'	24.95'
C10	10.00'	89°47'22"	15.67'	9.96'
C11	25.00'	90°12'38"	39.36'	25.09'
C12	25.00'	90°06'28"	39.32'	25.05'
C13	25.00'	89°53'32"	39.22'	24.95'

Call before you Dig
Call 811
1-800-227-2600

FAST
Call before you Dig
UnderGround
1-702-432-5300

Call before you Dig
Call 811
1-702-227-2929

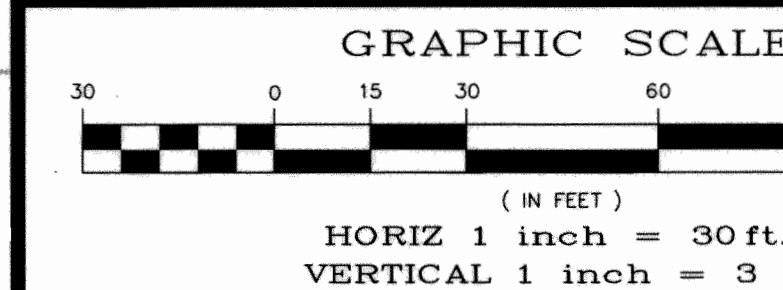


KEY NOTES

- CONSTRUCT PLANT MIX BITUMINOUS SURFACE WITH AGGREGATE BASE WITH PAVEMENT SECTIONS PER DETAIL 1 DRAWING C2.18
- CONSTRUCT 3/4" OPEN GRADE SURFACE
- CONSTRUCT "A" TYPE CURB PER USD #219
- CONSTRUCT MODIFIED "A" TYPE CURB PER DETAIL 5 DRAWING C2.18
- CONSTRUCT "L" TYPE CURB AND GUTTER PER USD #216
- CONSTRUCT MODIFIED "L" TYPE CURB AND GUTTER (24") PER DETAIL 3 DRAWING C2.18
- CONSTRUCT MODIFIED "L" TYPE CURB AND GUTTER (18") PER DETAIL 4 DRAWING C2.18
- CONSTRUCT TACK-ON MEDIAN ISLAND PER USD #221
- CONSTRUCT CONCRETE (PCC) MEDIAN ISLAND PER USD #216
- CONSTRUCT CONCRETE CROSS GUTTER PER USD #228 AND CONNECT TO EXISTING SPANDREL PER DETAIL 2 DRAWING C2.19
- CONSTRUCT CONCRETE CROSS GUTTER PER USD #228
- CONSTRUCT SIDEWALK RAMP PER USD #235 CASE I
- CONSTRUCT SIDEWALK RAMP PER USD #235 CASE II
- CONSTRUCT SIDEWALK RAMP PER DETAIL 3 DRAWING C2.19
- CONSTRUCT CONCRETE SIDEWALK PER USD #234
- CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 1 DRAWING C2.19
- CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 4 DRAWING C2.19
- CONSTRUCT COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION A) PER DETAIL 1 DRAWING C2.20
- SAWCUT AND MATCH EXISTING (SEE GENERAL NOTE #9 DRAWING C1.04)
- INSTALL LANDSCAPING AND IRRIGATION
- INSTALL SALVAGED STREETLIGHT ON NEW FOUNDATION PER USD #321
- INSTALL NEW CONDUIT AS REQUIRED AND REWIRE
- INSTALL SALVAGED STREETLIGHT ON NEW FOUNDATION PER USD #321
- RECONNECT STREETLIGHT TO EXISTING OVERHEAD CIRCUIT
- ADJUST EXISTING MANHOLE TO FINISH GRADE PER USD #408
- ADJUST EXISTING SEWER MANHOLE TO FINISH GRADE PER DETAIL 2 DRAWING C2.20
- ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE PER UDACS PLATE #39 (VALVE SHALL BE ACCESSIBLE AT ALL TIMES)
- ADJUST EXISTING WATER METER BOX TO FINISH GRADE PER UDACS PLATES #1-6
- ADJUST EXISTING TELEPHONE MANHOLE/VAULT TO FINISH GRADE
- ADJUST EXISTING POWER MANHOLE/VAULT TO FINISH GRADE (BY NV ENERGY)
- ADJUST EXISTING CABLE PULL BOX TO FINISH GRADE (BY COX COMMUNICATIONS)
- ADJUST EXISTING GAS VALVE BOX COVER TO FINISH GRADE (BY SOUTHWEST GAS)
- APPLY SLURRY SEAL TO EXISTING PAVEMENT
- REMOVE AND REPLACE NO. 3-1/2 PULLBOX PER USD #224
- INSTALL NEW PEDESTRIAN PUSH BUTTONS AND PEDESTRIAN SIGNAL HEADS MOUNTED ON A TYPE 18 POLE PER USD #404.402 WITH A TYPE "C" FOUNDATION PER USD #404.203. INSTALL NEW CONDUIT, PULL BOX AND WIRE AS REQUIRED TO CONNECT TO EXISTING TRAFFIC SIGNAL PER DETAIL 1 DRAWING C2.24
- REMOVE EXISTING PEDESTRIAN PUSH BUTTONS FROM TRAFFIC SIGNAL POLE
- INSTALL CONCRETE BENCH AND TRASH RECEPTACLE PER DETAIL 3 DRAWING C2.20
- REMOVE EXISTING POWER POLES AND INSTALL NEW POWER POLES (BY NV ENERGY)(REFER TO NV ENERGY PLANS PROJECT ID: 3000004490)
- CONSTRUCT DEPRESSION DRIVEWAY PER DETAIL 4 DRAWING C2.20
- INSTALL 3" DECOMPOSED GRANITE
- INSTALL NEW 6"x6" PREFORMED LOOP DETECTORS. SEE DETAIL 2 DRAWING C2.24 FOR INSTALLATION DETAIL
- CONSTRUCT SIDEWALK RAMP PER DETAIL 3 DRAWING C2.24
- CONSTRUCT CONCRETE VALLEY GUTTER PER DETAIL 4 DRAWING C2.24
- CONSTRUCT SIDEWALK DRAIN PER USD #236

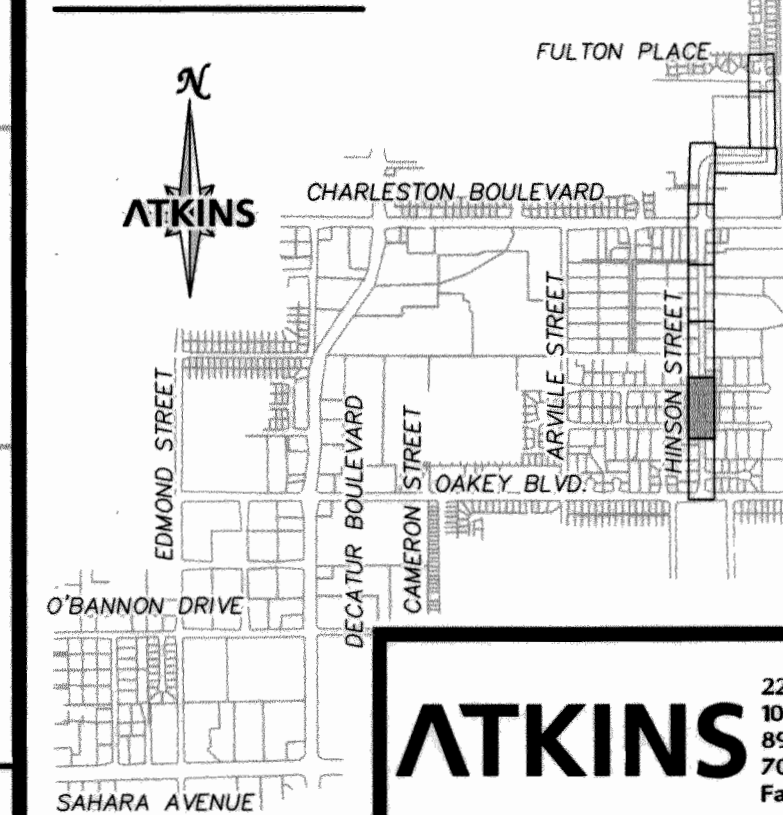
LEGEND

- CONSTRUCT PAVEMENT SECTION PER DETAIL 1 DWG C2.18
- CONSTRUCT 3/4" OPEN-GRADE
- LANDSCAPING AND IRRIGATION TO BE INSTALLED
- APPLY SLURRY SEAL TO EXISTING PAVEMENT



CAUTION:
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SHEET INDEX



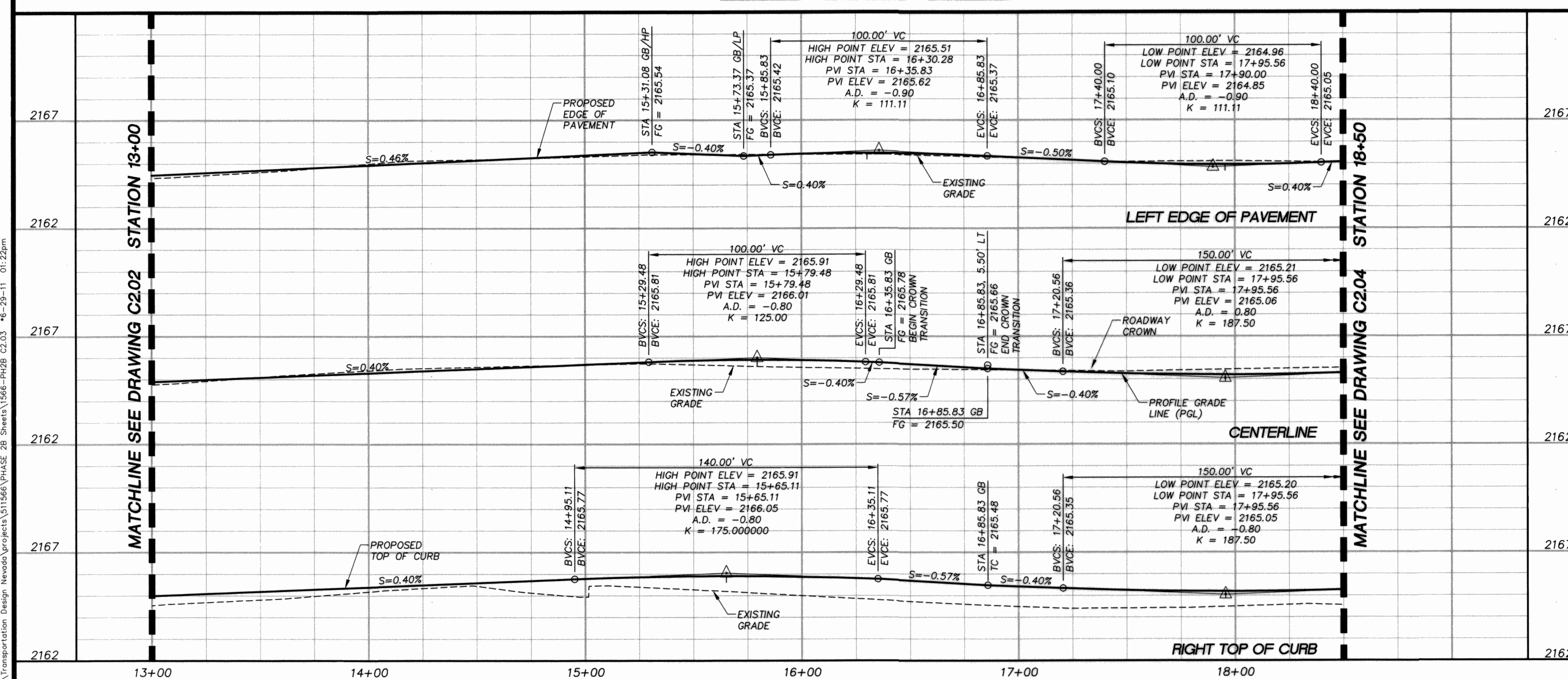
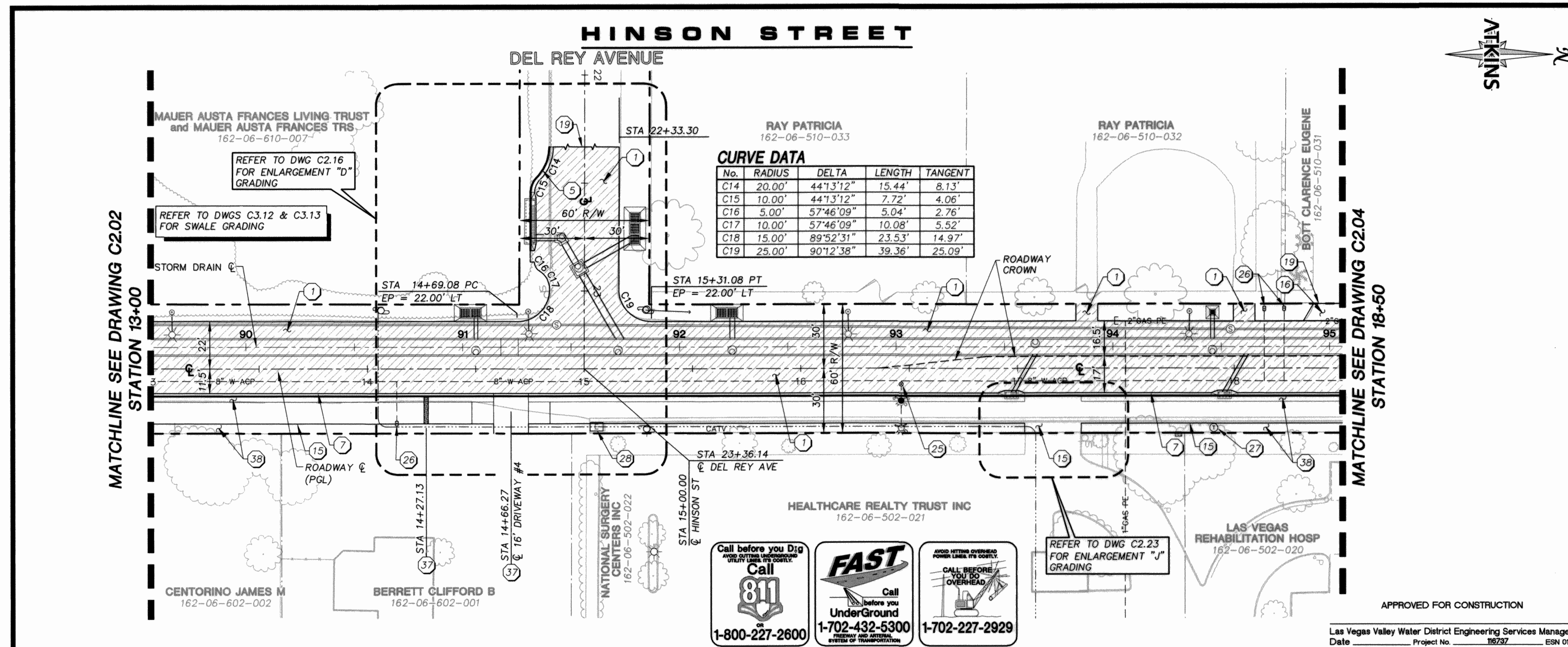
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2270 Corporate Circle Suite
100 Henderson, Nevada
89074 Telephone:
702/263-7275
Fax: 702/263-7200

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION
CITY ENGINEER: DAVID BOWERS, P.E., PTOE
CITY PROJECT MANAGER: MICHAEL STURDIVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: SWB
CHECK BY: AAS
DATE: JUNE 2011
DRAWN BY: RPW

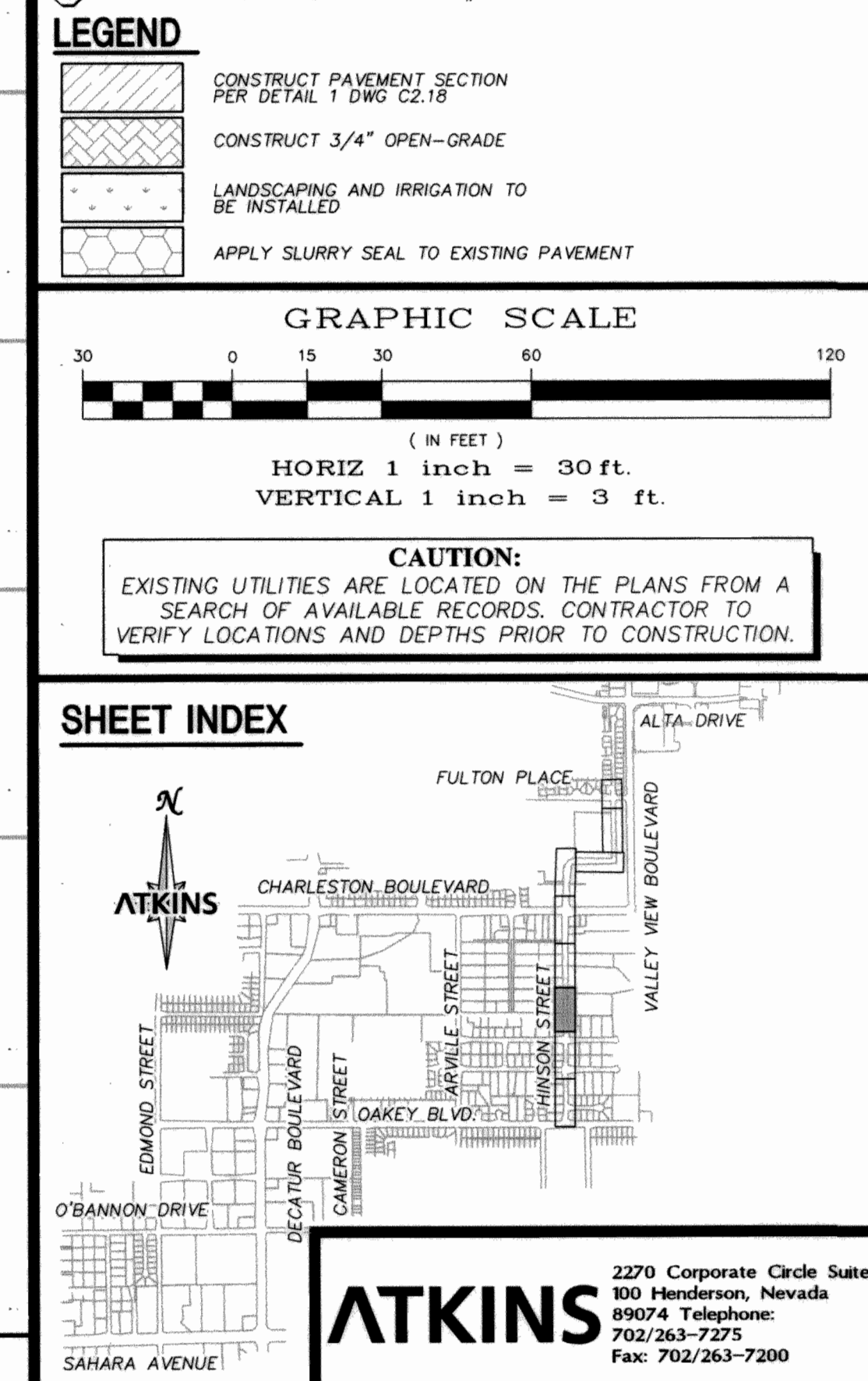
ROADWAY PLANS
PLAN AND PROFILE
OAKLEY/MEADOWS STORM DRAIN
PHASE 2B - HINSON STREET FROM
OAKLEY BOULEVARD TO NORTHSTAR STREET
STA 7+00.00 TO STA 13+00.00

STEVEN M. BELLINO
EXP. 12-31-12
CIVIL
No. 19048
6/29/11

C2.02
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DRAWING# 327v284-3



- ## KEY NOTES
- 1 CONSTRUCT PLANT MIX BITUMINOUS SURFACE WITH AGGREGATE BASE WITH PAVEMENT SECTIONS PER DETAIL 1 DRAWING C2.18
 - 2 CONSTRUCT 3/4" OPEN GRADE SURFACE
 - 3 CONSTRUCT "A" TYPE CURB PER DETAIL 5#219
 - 4 CONSTRUCT MODIFIED "A" TYPE CURB PER DETAIL 5 DRAWING C2.18
 - 5 CONSTRUCT "L" TYPE CURB AND GUTTER PER USD #216
 - 6 CONSTRUCT MODIFIED "L" TYPE CURB AND GUTTER (24") PER DETAIL 3 DRAWING C2.18
 - 7 CONSTRUCT MODIFIED "L" TYPE CURB AND GUTTER (18") PER DETAIL 4 DRAWING C2.18
 - 8 CONSTRUCT TACK-ON MEDIAN ISLAND PER USD #221
 - 9 CONSTRUCT CONCRETE (PC) MEDIAN ISLAND PER USD #216
 - 10 CONSTRUCT CONCRETE CROSS GUTTER PER USD #228 AND CONNECT TO EXISTING MANHOLE PER DETAIL 2 DRAWING C2.18
 - 11 CONSTRUCT CONCRETE CROSS GUTTER PER USD #228
 - 12 CONSTRUCT SIDEWALK RAMP PER USD #235 CASE I
 - 13 CONSTRUCT SIDEWALK RAMP PER USD #235 CASE II
 - 14 CONSTRUCT SIDEWALK RAMP PER DETAIL 3 DRAWING C2.19
 - 15 CONSTRUCT CONCRETE SIDEWALK PER USD #234
 - 16 CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 1 DRAWING C2.19
 - 17 CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 4 DRAWING C2.19
 - 18 CONSTRUCT COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION A) PER DETAIL 1 DRAWING C2.20
 - 19 SAWCUT AND MATCH EXISTING (SEE GENERAL NOTE #9 DRAWING C1.04)
 - 20 INSTALL LANDSCAPING AND IRRIGATION
 - 21 INSTALL SALVAGED STREETLIGHT ON NEW FOUNDATION PER USD #321
 - 22 INSTALL NEW CONDUIT AS REQUIRED AND REFILL WIRING
 - 23 INSTALL SALVAGED STREETLIGHT ON NEW FOUNDATION PER USD #321
 - 24 RECONNECT STREETLIGHT TO EXISTING OVERHEAD CIRCUIT
 - 25 ADJUST EXISTING MANHOLE TO FINISH GRADE PER USD #408
 - 26 ADJUST EXISTING SEWER MANHOLE TO FINISH GRADE PER DETAIL 2 DRAWING C2.20
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 - 33 APPLY SLURRY SEAL TO EXISTING PAVEMENT
 - 34 REMOVE AND REPLACE NO. 3-1/2 PULLBOX PER USD #224
 - 35 INSTALL NEW PEDESTRIAN PUSH BUTTONS AND PEDESTRIAN SIGNAL HEADS W/LED ON NEW FOUNDATION PER USD #404, 402 WITH A TYPE "C" FOUNDATION PER USD #404, 203. INSTALL NEW CONDUIT, PULL BOX AND WIRE AS REQUIRED TO CONNECT TO EXISTING TRAFFIC SIGNAL PER DETAIL 1 DRAWING C2.24
 - 36 REMOVE EXISTING PEDESTRIAN PUSH BUTTONS FROM TRAFFIC SIGNAL POLE
 - 37 INSTALL CONCRETE BENCH AND TRASH RECEPTACLE PER DETAIL 3 DRAWING C2.20
 - 38 REMOVE EXISTING POWER POLES AND INSTALL NEW POWER POLES (BY NV ENERGY) (REFER TO NV ENERGY PLANS PROJECT ID: 3000004490)
 - 39 CONSTRUCT DEPRESSSED DRIVEWAY PER DETAIL 4 DRAWING C2.20
 - 40 INSTALL 3" DECOMPOSED GRANITE
 - 41 INSTALL NEW 6"x6" PREFORMED LOU DETECTORS. SEE DETAIL 2 DRAWING C2.24 FOR INSTALLATION DETAIL
 - 42 CONSTRUCT SIDEWALK RAMP PER DETAIL 3 DRAWING C2.24
 - 43 CONSTRUCT CONCRETE VALLEY GUTTER PER DETAIL 4 DRAWING C2.24
 - 44 CONSTRUCT SIDEWALK DRAIN PER USD #236





DEPARTMENT OF PUBLIC WORKS

ENGINEERING DESIGN SECTION

LAKEY/MEADOWS STORM DRAIN
 SE 2B - HINSON STREET FROM
 / BOULEVARD TO NORTHSTAR STREET

ROADWAY PLANS
 PLAN AND PROFILE
 STA 13+00.00 TO STA 18+50.00

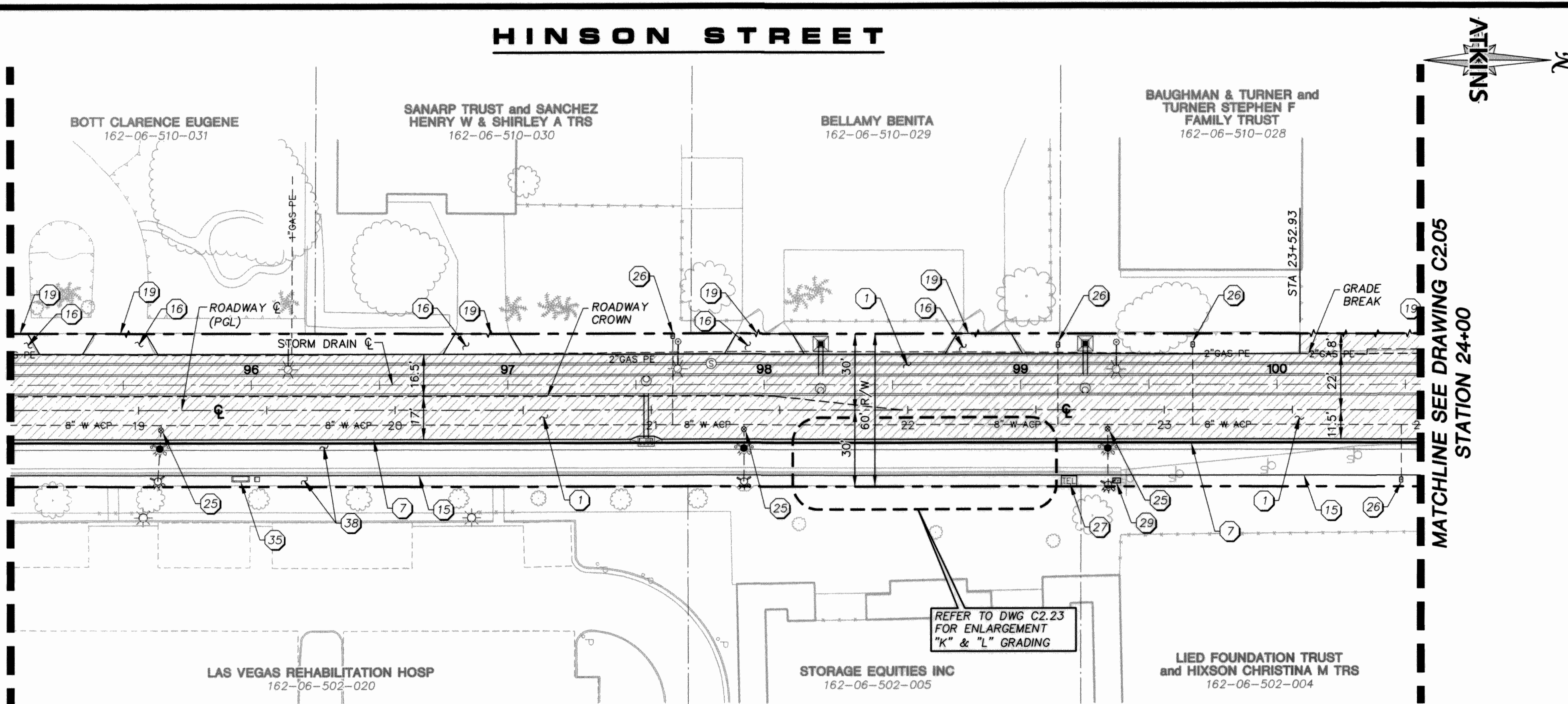
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DRAWING# 327V284-3	

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MATCHLINE SEE DRAWING C2.03
STATION 18+50

MATCHLINE SEE DRAWING C2.03
STATION 18+50



APPROVED FOR CONSTRUCTION

Las Vegas Valley Water District Engineering Services Manager
Date: Project No. 16737 ESN 08

MATCHLINE SEE DRAWING C2.05
STATION 24+00

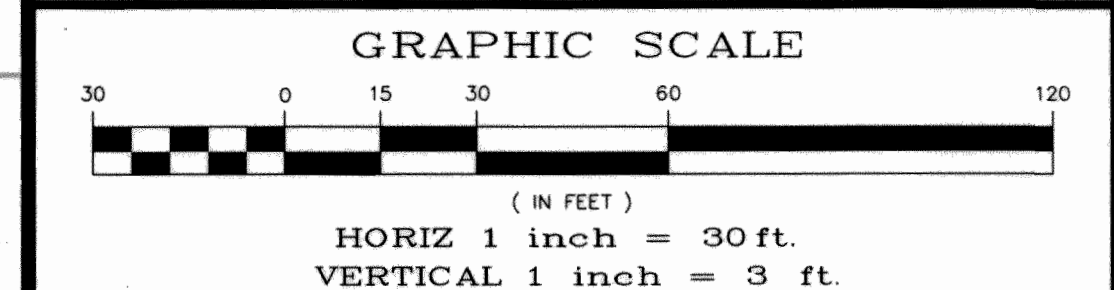
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KEY NOTES

1. CONSTRUCT PLANT MIX BITUMINOUS SURFACE WITH AGGREGATE BASE WITH PAVEMENT SECTIONS PER DETAIL 1 DRAWING C2.18
2. CONSTRUCT 3/4" OPEN GRADE SURFACE
3. CONSTRUCT "A" TYPE CURB PER USD #219
4. CONSTRUCT MODIFIED "A" TYPE CURB PER DETAIL 5 DRAWING C2.18
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16. CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 1 DRAWING C2.19
17. CONSTRUCT RESIDENTIAL CONCRETE DRIVEWAY PER DETAIL 4 DRAWING C2.19
18. CONSTRUCT COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION A) PER DETAIL 1 DRAWING C2.20
19. SAWCUT AND MATCH EXISTING (SEE GENERAL NOTE #9 DRAWING C1.04)
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41. CONSTRUCT SIDEWALK RAMP PER DETAIL 3 DRAWING C2.24
42. CONSTRUCT CONCRETE VALLEY GUTTER PER DETAIL 4 DRAWING C2.24
43. CONSTRUCT SIDEWALK DRAIN PER USD #236

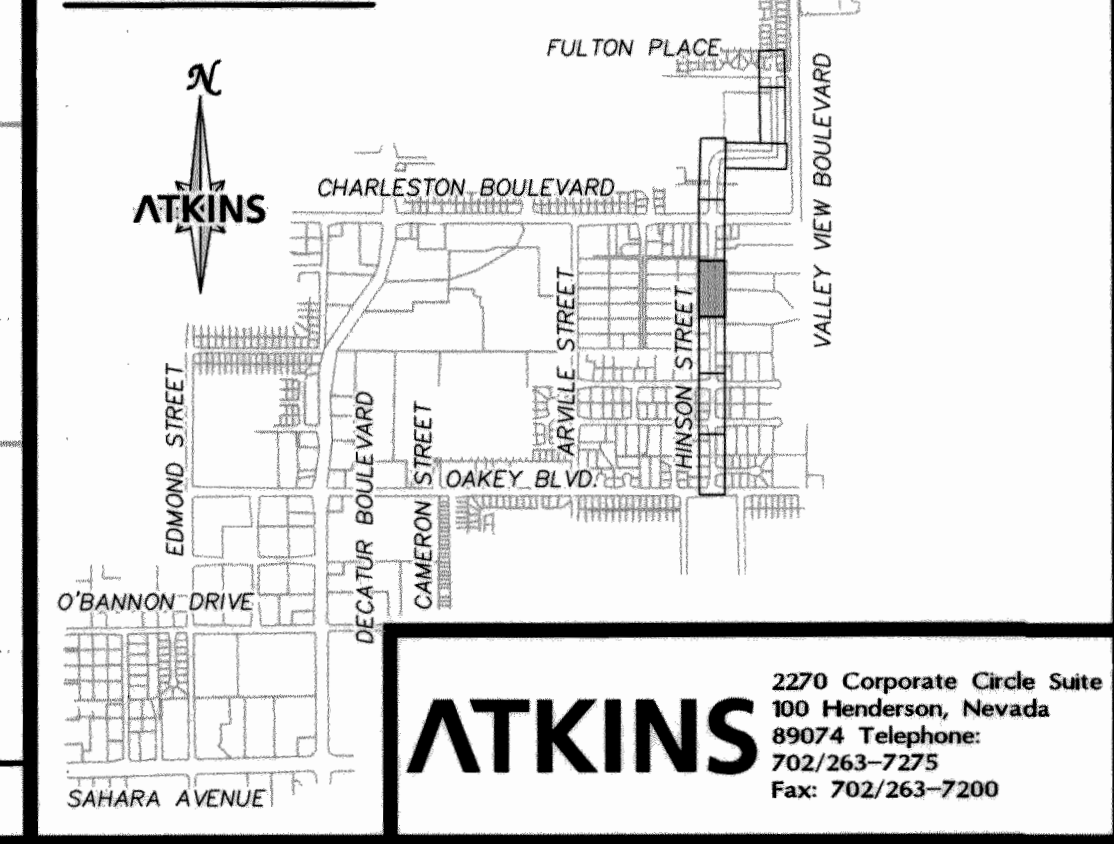
LEGEND

- CONSTRUCT PAVEMENT SECTION PER DETAIL 1 DWG C2.18
- CONSTRUCT 3/4" OPEN-GRADE
- LANDSCAPING AND IRRIGATION TO BE INSTALLED
- APPLY SLURRY SEAL TO EXISTING PAVEMENT



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SHEET INDEX



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CITY PROJECT MANAGER: MICHAEL STORDVANT, P.E.
PROJECT MANAGER: ANGELO SPATA, P.E.
DESIGN BY: CHECK BY: AAS
DATE: JUNE 2011
DRAWN BY: RPW

ROADWAY PLANS
PLAN AND PROFILE
STA 18+50.00 TO STA 24+00.00



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2270 Corporate Circle Suite
100 Henderson, Nevada
89074 Telephone: 702/263-7275
Fax: 702/263-7200
C2.04
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DRAWING# 327v284-3

FEDERAL PROJECT MS-0003(146)