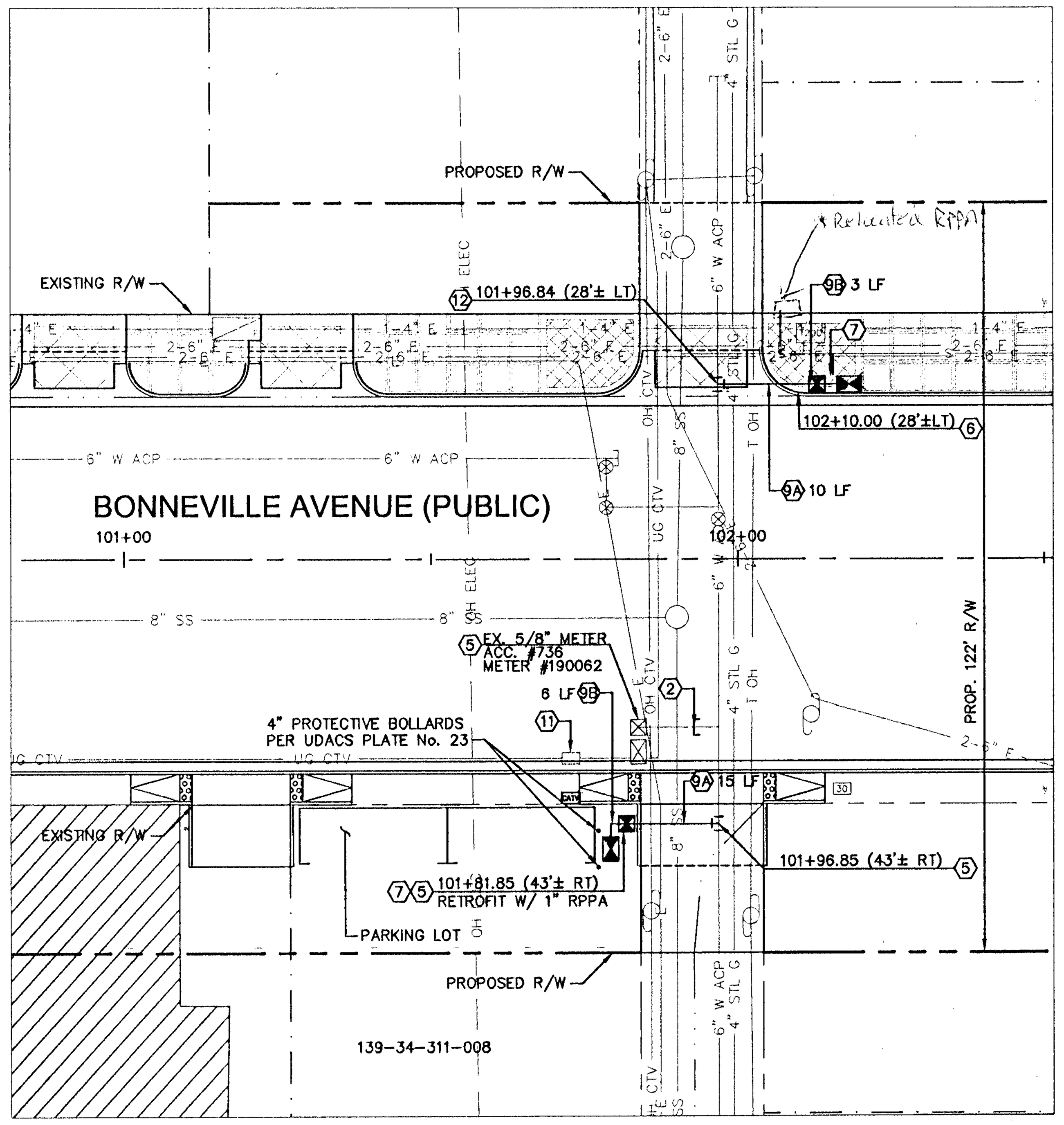
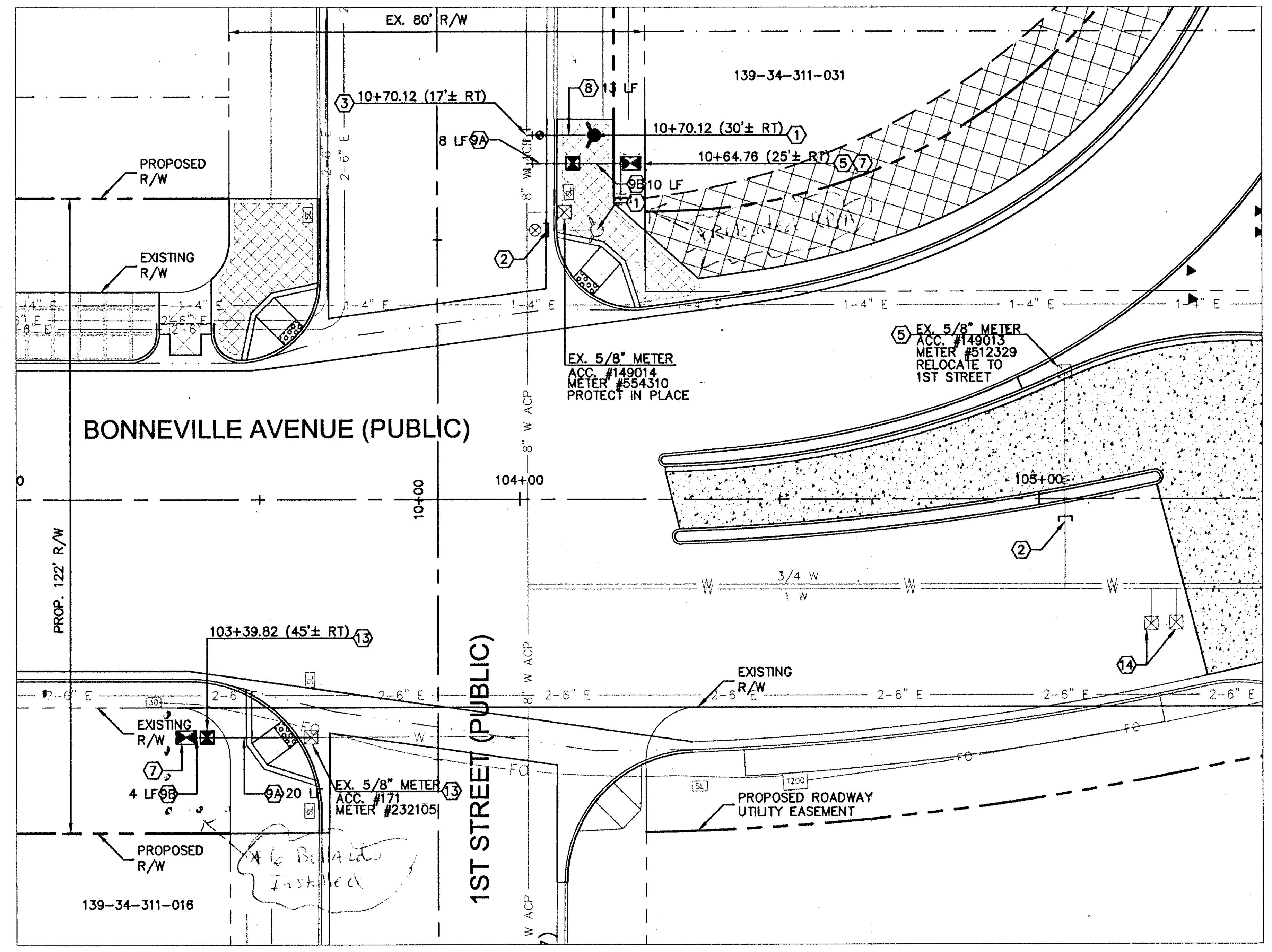
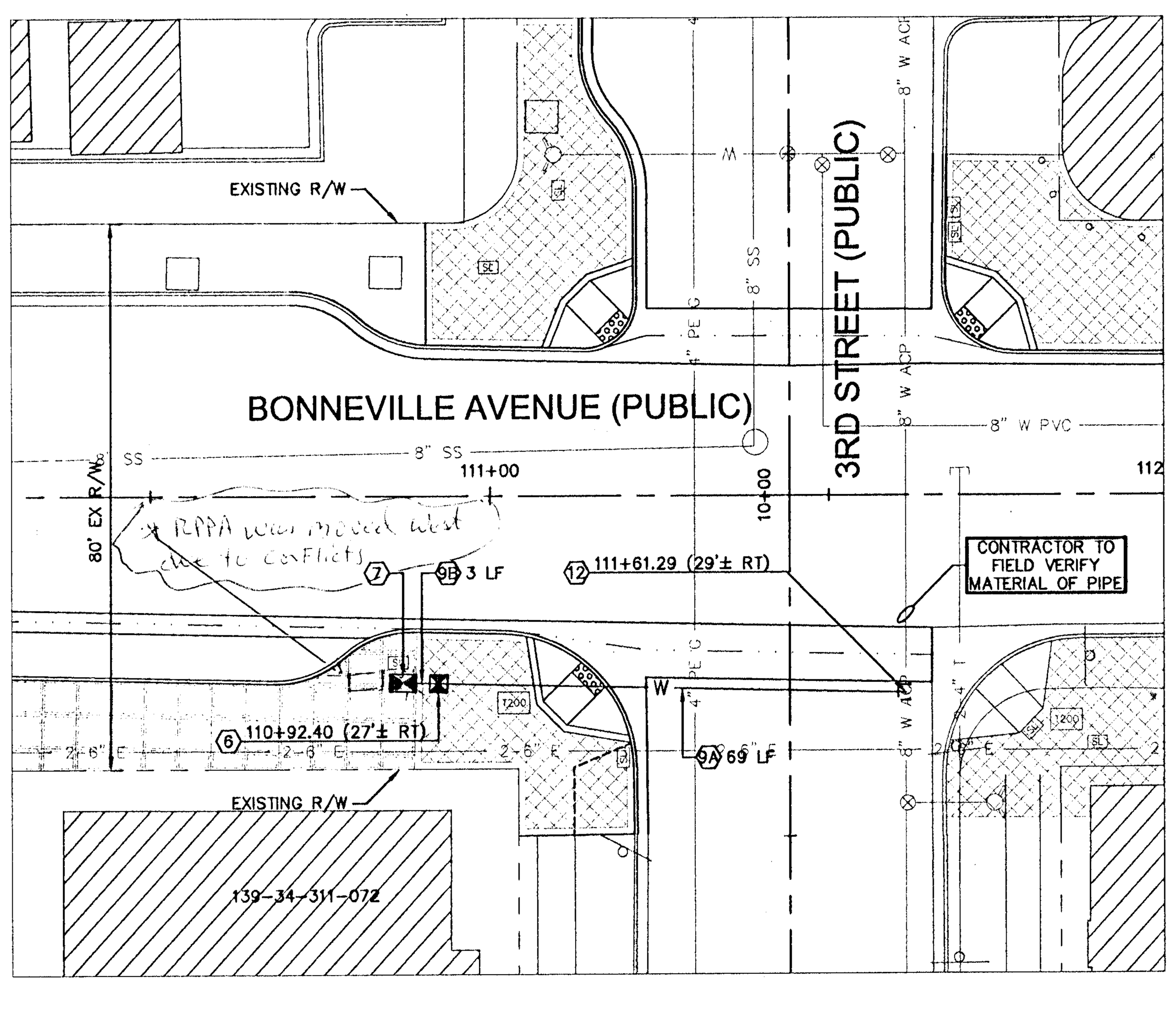
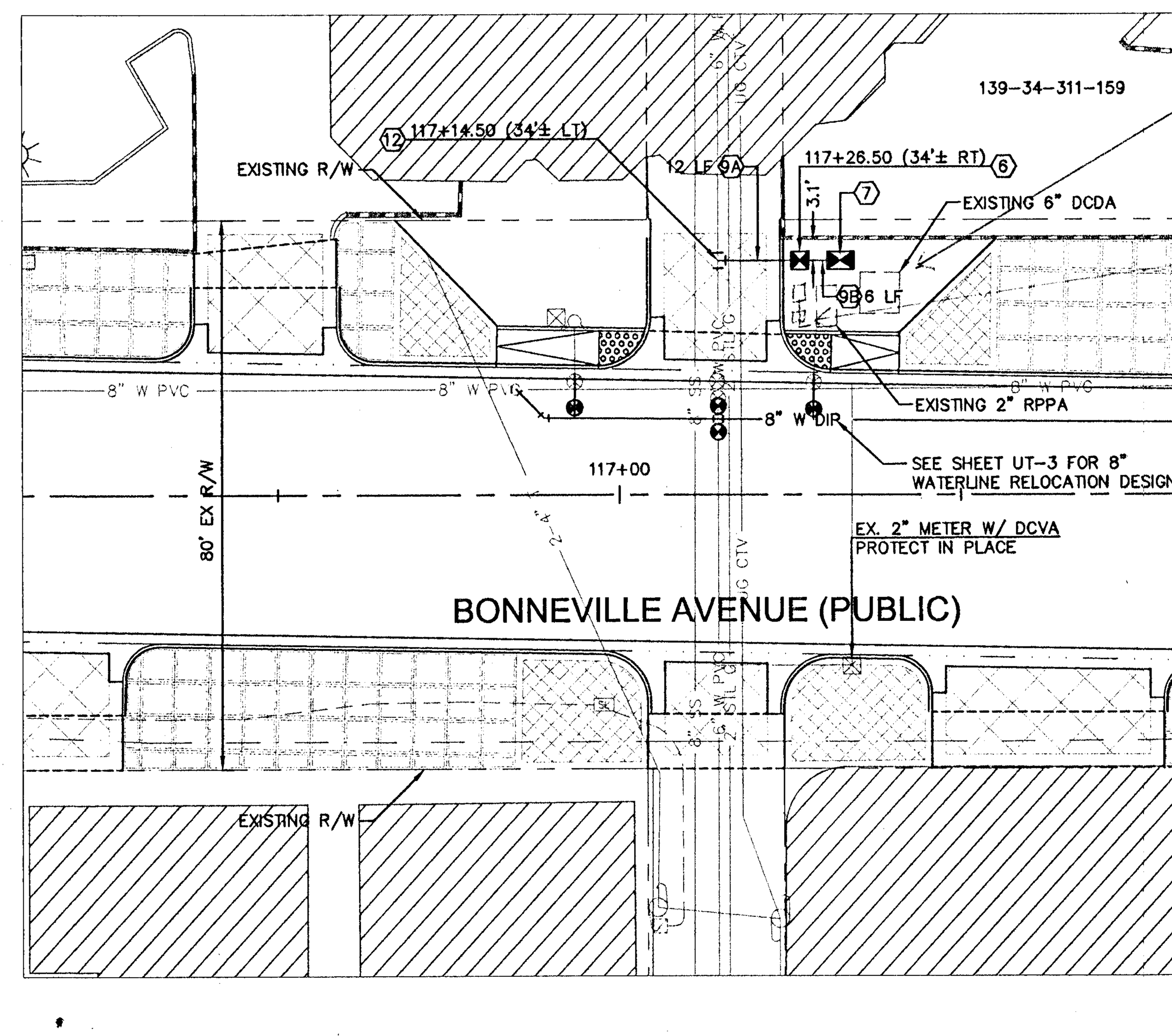






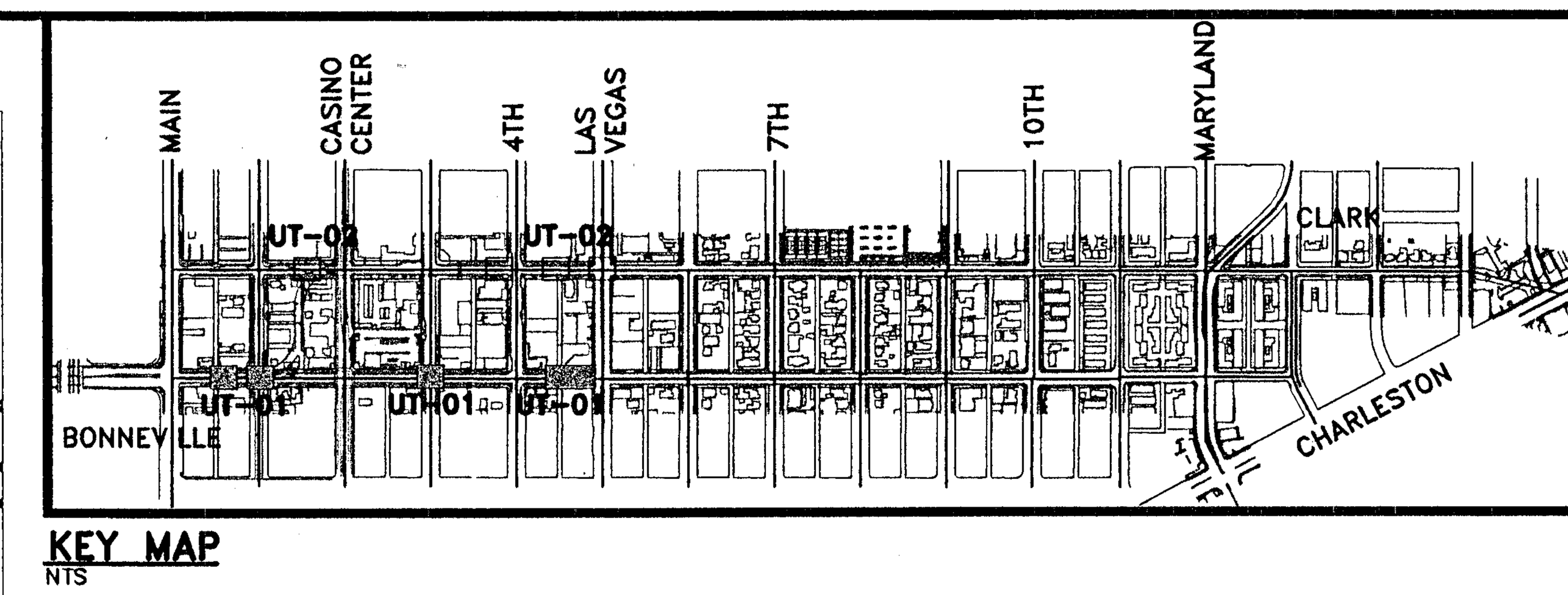


TAND, INC.
AS-BUILT

DATE DANIEL MEYER

LVVWD QUANTITIES*		
6" PVC C-900	13	LF
6" GATE VALVE	1	EA
1" RPPA (NEW)	5	EA
¾" METER (NEW)	3	EA
1" COPPER PIPE	135	LF
1" BRASS PIPE	32	LF
RELOCATE EX. HYDRANT	1	EA
WET TAP EX. WATERLINE	1X	EA

*BY SHEET



KEY MAP
NTS

CONSTRUCTION NOTES

1. RELOCATE EXISTING FIRE HYDRANT PER UDACS PLATE NO. 7.
2. ABANDON EXISTING SERVICE LATERAL. FOR HYDRANTS ABANDON VALVE PER UDACS 2.09.07. SEE NOTE THIS SHEET.
3. WET TAP EXISTING ACP WATERLINE WITH MECHANICAL JOINT TAPPING SLEEVE AND 6" TAPPING VALVE PER UDACS PLATE NO. 22.
4. INSTALL 22.5° ELBOW PER UDACS PLATE No. 5.
5. RELOCATE EXISTING SERVICE METER AND RPPA PER UDACS PLATE NO. 5, 1D AND 11A. WET TAP EXISTING WATERLINE AS NECESSARY.
6. INSTALL 3/4" WATER METER PER UDACS PLATE NO. 1D.
7. INSTALL 1" RPPA PER UDACS PLATE NO. 11A.
8. INSTALL 6" WATERLINE PER UDACS PLATE NO. 6C.
9A. INSTALL 1" COPPER WATERLINE PER UDACS PLATE NO. 1D.
9B. INSTALL 1" BRASS WATERLINE PER UDACS PLATE NO. 1D.
10. NOT USED.
11. EXISTING CATV PULL BOX TO BE RELOCATED BY OTHERS.
12. INSTALL SERVICE SADDLE PER UDACS PLATE NO. 1D.
13. RELOCATE EXISTING WATER METER (AND BACKFLOW DEVICE, IF APPLICABLE) PER UDACS PLATE NO. 1C. EXTEND EXISTING LATERAL IN ORDER TO LOCATE WATER METER WITHIN THE LIMITS OF PROPOSED SIDEWALK. MAINTAIN EXISTING SERVICE CONNECTION.
14. WATER METER TO BE REMOVED OR RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
15. NOT USED.
16. RELOCATE EXISTING SERVICE METER PER UDACS PLATE NO. 5, 1D AND 11A. TAP EXISTING 8" ACP WATERLINE PER UDACS REQUIREMENTS.
17. RELOCATE EXISTING SERVICE METER (AND RPPA, IF APPLICABLE) PER UDACS PLATE NO. 5, 1D AND 11A. TAP EXISTING 16" ACP WATERLINE PER UDACS REQUIREMENTS.
18. INSTALL 45° ELBOW PER UDACS PLATE No. 5.
19. CUT EXISTING 8" PVC WATERLINE AND CONNECT TO PROPOSED 8" DIP WATERLINE WITH TRANSITION COUPLING.
20. EXISTING 8" WATERLINE TO REMAIN. PROTECT IN PLACE.
21. ABANDON/REMOVE 150 LINEAR FEET OF EXISITNG 8" PVC WATERLINE.
22. NOT USED.
23. INSTALL 8" DUCTILE IRON PIPE (DIP) WATERLINE PER UDACS PLATE No. 6C.
24. INSTALL 8" DIP TRANSITIONAL COUPLING
25. RECONNECT EXISTING 6" LATERAL, CONNECT TO PROPOSED 8" DIP WATERLINE WITH 8"X6" TEE. RELOCATE EXISTING GATE VALVE AS NECESSARY. PER UDACS PLATE NO. 3 & 8.
26. RELOCATE EXISTING 8"X6" CROSS AND 6" GATE VALVES. EXTEND EXISTING 6" MAIN AND CONNECT TO PROPOSED 8" DIP WATERLINE. PER UDACS PLATE NO. 3, 5, & 8.

GENERAL NOTES

1. ALL EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE MATERIAL OF PIPE AND 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.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERT ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ON-SITE UTILITIES ARE TO BE INSTALLED PER THE CURRENTLY ADOPTED DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER AND POTABLE WATER SYSTEMS.
4. CONTRACTOR TO PROTECT ALL EXISTING UNDERGROUND UTILITIES IN PLACE DURING EXCAVATION BACKFILL.

NOTES

1. 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.
2. DISPOSAL OF ABESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH AWWA, LOCAL, STATE AND FEDERAL REGULATIONS. (ESN. 053 REVISED 6/1/04)
3. ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSION STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.
4. THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING AND INSTALL A CAP COMPLETE WITH THRUST BLOCK. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATIONS, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH AGENCY APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5.
5. WHERE SHOWN ON THE DRAWING THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER FIRE HYDRANT BARRELS SO NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN 2 FEET TO THE EXISTING GRADE. THE EXISTING HYDRANT SHALL BE DELIVERED TO THE AGENCY. THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO -THOUSAND (2,000) PSI. THE REMAINING PORTION OF THE LATERAL SHALL BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE EXISTING CONCRETE HYDRANT PAD SHALL BE REMOVED.

ABANDONMENT OF EXISTING SERVICE LATERALS

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

EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER 9702-3258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT.

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

RELOCATION OF FIRE HYDRANTS

THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN, EXTEND THE EXISTING LATERAL AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER THE DIRECTION OF THE DISTRICT, TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE 7. LATERALS MADE OF UNPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW INSTALLATIONS.

BENCHMARK

CITY OF LAS VEGAS VERTICAL CONTROL POINT "6C01 34SW6", BEING A RIVET & PLATE IN TOP OF CURB ON THE EAST SIDE OF MAIN BETWEEN BONNEVILLE & GARCES @ LIGHT POLE.

ELEVATION: 2027.08 (FEET)
617.8544 (METERS)

CITY OF LAS VEGAS VERTICAL CONTROL DATED 06/2002 BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS GRID NORTH AS DEFINED BY THE NORTH AMERICAN DATUM OF 1983 (NAD 83), NEVADA STATE PLANE EAST (2701) ZONE. SAID BEARINGS WERE DETERMINED BY STATIC GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS PROCESSED BY THE NATIONAL GEODETIC SURVEY DIVISION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION USING THE ON-LINE POSITIONING USER SERVICE (OPUS). THE REFERENCE FRAME USED WAS NAD83 (CORS96) WITH AN EPOCH OF 2002.0000. ALL DISTANCES SHOWN HEREON ARE GROUND VALUES.

APPROVED FOR CONSTRUCTION
5/19/10
LAS VEGAS FIRE AND RESCUE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 06/10/10 PROJECT No. 115404 ESN 018

NORTH

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)

811 know what's below Call before you dig

SAFETY ALERT Call Before You Overhead 1-702-227-2929

Call before you UnderGround 1-702-432-5300

DEPARTMENT OF PUBLIC WORKS

PROJECT: BONNEVILLE/CLARK ONEWAY COUPLET PHASE 1 IMPROVEMENT PLANS

SHEET: UTILITY SHEET

REVISIONS: SHEET REPLACEMENT DATE 6/21/10

SCALE (H): 1":20' SCALE (V): N/A DATE: FEBRUARY 2010
DRAWN BY: FR DESIGNED BY: JH CHECKED BY: PM/CC

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PETER N. MEYERHOFER CIVIL No. 18093 Exp: 12/31/11

SHEET NO. UT-01
SHEET 36 OF 91
DRAWING NO. 107V5201

BID# 09.1730.37 REV 3

Apr 25, 2010 - 8:53pm - USER peter.meyerhofer
\\LAVFP01\Projects\LAV_PublicTrans\092256\019 Bonneville-Clark 2008\CADD\2560\1ut-01_03.dwg

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