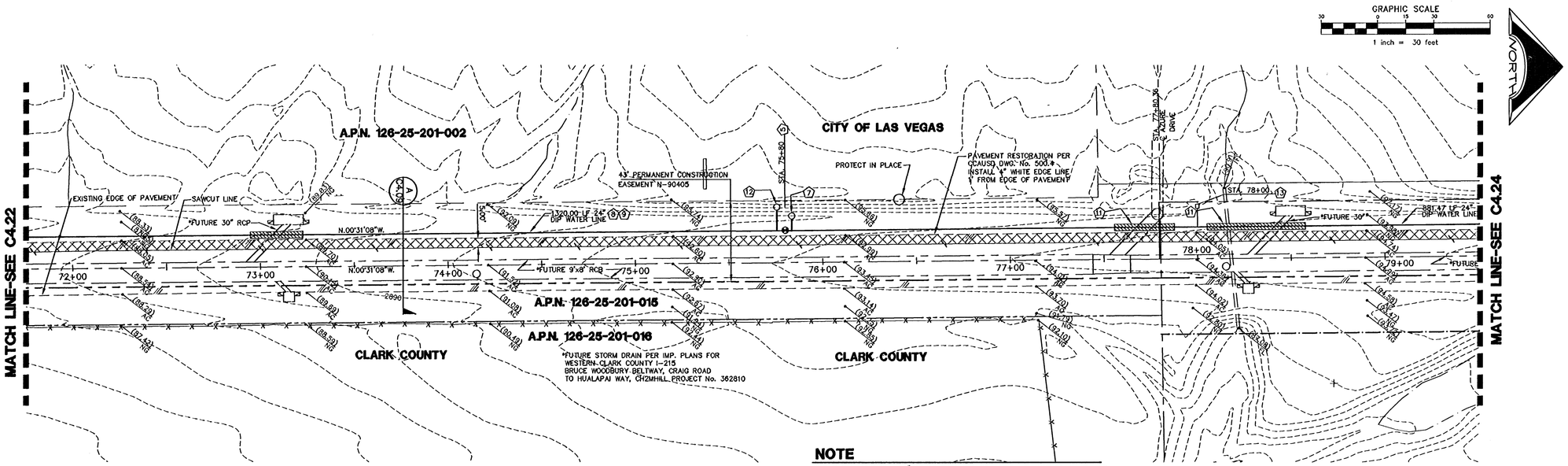


SHAUMBER ROAD-STA. 71+75 TO STA. 79+50

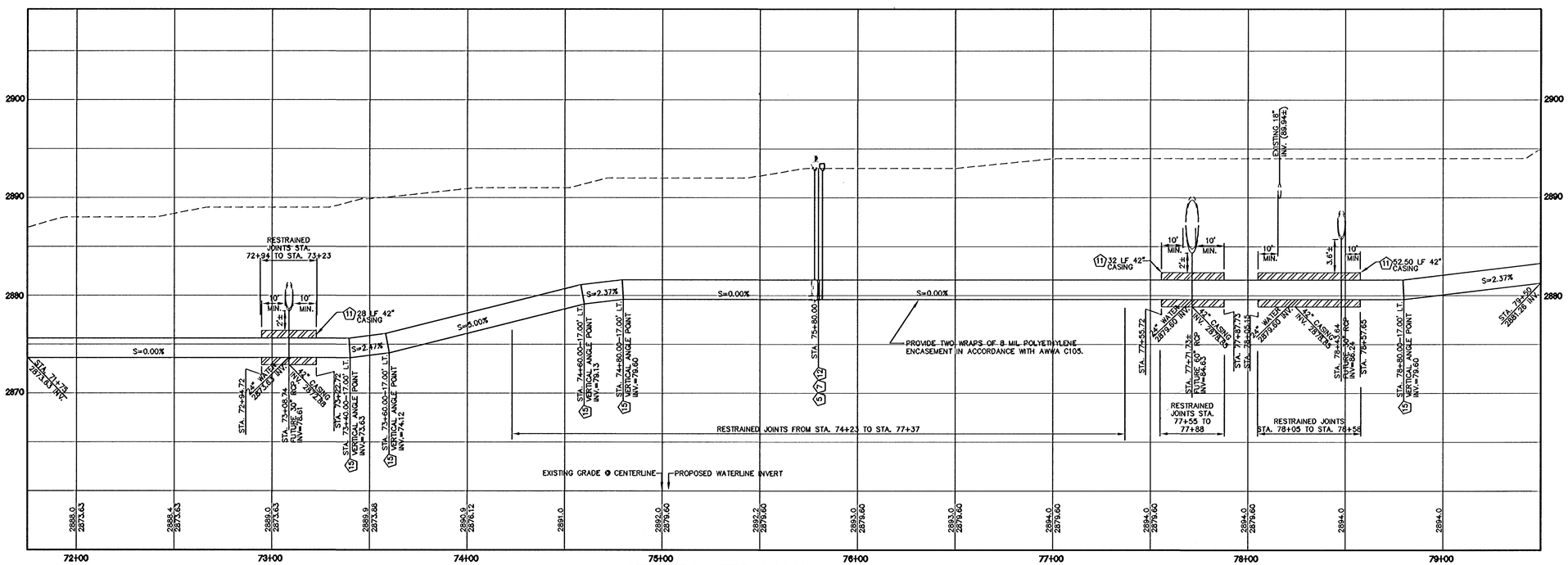
SCALE: 1"=30' HORIZ

NOTE

DURING CONSTRUCTION, 24" COVER OVER TOP OF WATERLINE MUST BE MAINTAINED AT ALL TIMES PER UDACS 2.08.04/PLATE 19.

NOTE

REFER TO SHEET C2.13 THRU C2.15 FOR R/W, PATENT AND CONSTRUCTION EASEMENT INFORMATION.



PROFILE

SCALE: 1"=30' HORIZ
1"=6' VERT.

WATER MAIN JOINT DEFLECTION (DIP 24")

DIP PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE AND A HALF (1.5) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 765 FEET, PER UDACS 2.07.03. FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

INSTALL WATERLINE IN STEEL CASING PER UDACS PLATE No. 22 AND 23. MINIMUM 18" CLEARANCE IS REQUIRED ABOVE THE TOP OF CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS. ANNULAR SPACE BETWEEN THE PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM. SEE UDACS PLATE No. 16, 17, 18 AND 19 FOR BEDDING AND BACKFILL REQUIREMENTS.

2012-278

OFFSITE WATER KEY NOTES

NOT ALL ITEMS ARE USED ON THIS SHEET

1. INSTALL 24"-22.5° BEND.
2. DEFLECT PIPE JOINT HORIZONTALLY 1.5° MAX. PER UDACS 2.07.03.
3. INSTALL 24"x12" TEE.
4. INSTALL 24" CAP & 2" BLOWOFF PER UDACS PLATE No. 36.
5. INSTALL 24" RESILIENT WEDGE GATE VALVE PER DETAIL, SHEET C8.02
6. INSTALL 24"-11.25° BEND.
7. INSTALL BLOW-OFF ASSEMBLY PER DETAIL, SHEET C8.02.
8. INSTALL PIPE LOCATOR PER DETAIL 1 ON SHEET C8.04.
9. INSTALL PIPE IN TRENCH PER DETAIL 2 ON SHEET C8.04.
10. INSTALL PIPE IN TRENCH PER DETAIL 3 ON SHEET C8.04.
11. INSTALL CASING PER UDACS PLATE 22 AND 23.
12. INSTALL AIR VALVE ASSEMBLY PER DETAIL, SHEET C8.03.
13. INSTALL CATHODIC PROTECTION TEST STATION PER DETAILS, SHEET C8.05
14. INSTALL 24"-45° BEND. ROLL DOWN TO ACHIEVE BOTH VERTICAL ANGLE AND HORIZONTAL ANGLE.
15. DEFLECT PIPE JOINT VERTICALLY 1.5° MAX. PER UDACS 2.07.03.

WATER MAIN NOTE

DUCTILE IRON PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600, "INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES," AND THE MANUFACTURER'S RECOMMENDATIONS.

BASIS OF BEARING

NORTH 00°05'54" WEST, BEING THE BEARING OF THE WEST LINE OF THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 36 TOWNSHIP 19 SOUTH, RANGE 59 EAST, AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS FILE 89, PAGE 3 OF SURVEYS..

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 5LV99 36N8
A RIVET AND PLATE IN A FENCE POST BASE AT THE SOUTHWEST CORNER OF ALPINE RIDGE AND HAMMER LANE
ELEVATION = 2851.24 FEET (869.059 METERS) NAVD 1988 DATUM

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

BY Dave Backlund 12-12-11

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

APPROVED FOR CONSTRUCTION

Dan Gregory
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 116679 DATE 12/01/11

REVISIONS

REV	DESCRIPTION	DATE	BY

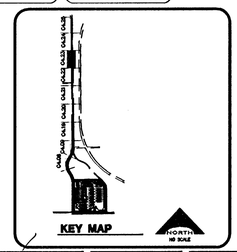
DISCLAIMER NOTE

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

Call before you Dig
Avoid cutting underground utility lines, if a cloaty.
Call 811 or 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

Avoid overhead power line contact
Call before you OVERHEAD
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

AVOID HITTING UNDERGROUND FIBER OPTIC CABLE AND STREET LIGHT SYSTEM CONDUITS ITS CONDUIT
CALL BEFORE YOU DO UNDERGROUND
Call before you Underground
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
1-702-385-4611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



SEAL: PROFESSIONAL ENGINEER-STATE OF NEVADA VERNON R. HARKINS EXP 6/30/13 CIVIL No. 009698 11/5/11

CCSD PROJECT NO. 15-49
CCSD REVIEW
APPROVED BY
DATE

DATE OCTOBER 31, 2011
DRAWN BY
CHECKED BY
SUBMITTAL
K/E PROJECT NO. 08-816

L. R. NELSON CONSULTING ENGINEERS, INC.
STRUCTURAL CIVIL MECHANICAL PLANNING
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Las Vegas, Nevada 89118
(702) 431-2750
(702) 431-2758 FAX

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LAS VEGAS AUSTIN

H41249

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4170 McLEOD DRIVE LAS VEGAS, NEVADA 89121

PROJECT: CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

DRAWING TITLE: PLAN AND PROFILE-OFFSITE WATER

SHEET NO. C4.23
SHEET 52 OF 83

CLV #41249 7/5-/83
HTE #11-19927