THE BENCHMARK USED FOR THIS SURVEY IS A CENTERLINE MONUMENT LOCATED AT THE INTERSECTION OF OLD JEROME HIGHWAY AND SCENIC DRIVE, THE ELEVATION OF WHICH IS 3559.80.

THE BASIS OF BEARINGS FOR THIS SURVEY IS N 89°46'02" W ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 32 AND ESTABLISHED BY A FOUND BRASS CAP MONUMENT, DESCRIBED AS A "3-INCH DR. MORGAN JOHNSON BRASS CAP", AT THE NORTH QUARTER CORNER OF SAID SECTION 32, AND A FOUND 2-INCH ALUMINUM CAP AT THE NORTHEAST CORNER OF SAID SECTION 32, BOTH SHOWN ON THAT MINOR LAND DIVISION MAP RECORDED IN BOOK 41 OF MAPS AT PAGE 31.

THE HIGHLANDS

CLARKDALE, YAVAPAI COUNTY, ARIZONA

WATER

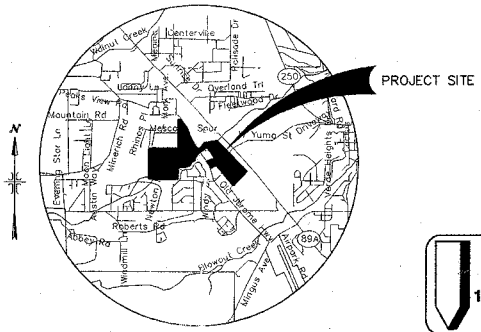
1. THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH THE STANDARDS SET FORTH IN THE AWWA, MAG, ARIZONA ADMINISTRATIVE CODE AND ARIZONA DEPARTMENT OF HEALTH SERVICES BULLETINS.
2. WATER DISTRIBUTION MAINS SHALL BE CONSTRUCTED WITH PVC C900 CLASS 200. THE PIPE SHALL BE INSTALLED IN WORKMANLIKE MANNER BY PERSONS PROPERLY QUALIFIED TO PERFORM SAID WORK AND SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND/OR YAG STANDARD SPECIFICATIONS AS APPROVED BY THE TOWN ENGINEER. ALL WORK AND MATERIALS MUST CONFORM TO CURRENT REQUIREMENTS OF THE YAG AMENDMENT TO UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SPONSORED AND DISTRIBUTED BY MAG AND/OR TOWN OF CLARKDALE.
3. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 3 FEET. AFTER INSTALLATION OF THE WATER MAINS, THE TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 95% OF AASHTO T-99, DENSITY TO PREVENT FURTHER SETTLEMENT. ALL MAINS SHALL BE LEAK-TESTED, FLUSHED AND SANITIZED BEFORE CONNECTION TO THE MUNICIPAL SYSTEM.
4. HORIZONTAL AND VERTICAL SEPARATION OF CULINARY WATER AND SEWER SHALL BE IN COMPLIANCE WITH MAG STANDARD DETAIL 404-1 AND THOSE SET FORTH IN THE AZ ADMIN. CODES.
5. ALL GATE VALVES SHALL BE FLANGED AND/OR M.J. AND SHALL CONFORM TO MAG STANDARD DETAIL 391-1 OR 391-2 SPECIFICATIONS AND SHALL HAVE A 200 P.S.I. WORKING PRESSURE RATING. ALL VALVES SHALL BE ANCHORED IN CONFORMANCE WITH YAG STANDARD DETAIL NO. 3-03.
6. ALL TEES, PLUGS, CAPS AND BENDS, AND AT OTHER LOCATIONS WHERE UNBALANCED FORCES EXIST, SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING AS SHOWN IN THE MAG STANDARD DETAIL NO. 380.
7. THE DISTRIBUTION SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH A.W.W.A. STANDARDS.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER, THREE (3) WORKING DAYS BEFORE INITIAL CONSTRUCTION BEGINS AND SHALL ALSO REQUEST TOWN OF CLARKDALE DEPARTMENT OF PUBLIC WORKS INSPECTION OF WATER LINES AND APPURTENANCES TWENTY-FOUR (24) HOURS IN ADVANCE OF BACKFILLING.
9. CONTRACTOR TO FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ASSURE THAT SAID LID ELEVATIONS MATCH FINAL STREET GRADE, AND ALL METER LID ELEVATIONS TO MATCH AN EXTENSION OF THE SIDEWALK GRADE.
10. UPON THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT A SET OF AS-BUILT PLANS TO THE TOWN ENGINEER.
11. RESIDENTIAL WATER SERVICE CONNECTIONS SHALL BE CONSISTENT WITH YAG STD DETAIL 3-16..
12. ALL WATER VALVES SHOULD BE INDICATED AS "CULINARY".
13. NO VALVE INSTALLATION SHALL BE LOCATED IN A SIDEWALK, RAMP, OR DRIVEWAY.
14. ALL FIRE HYDRANT INSTALLATIONS MUST CONFORM TO YAG STANDARD DETAIL 3-07,3-08, AND 3-10.
15. COORDINATE WITH TOWN OF CLARKDALE FOR THE TIE IN AND/OR SHUT DOWN TIMES FOR CONNECTION TO THE EXISTING WATER SYSTEM.
16. WATER SERVICE LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG STANDARD DETAIL 320 CONCRETE METER BOX, AND YAG STANDARD DETAIL 3-16 METER.
17. ALL WATERLINES SHALL BE INSTALLED WITH A MINIMUM 250 FOOT RADIUS.
18. THE WATER LINE INSTALLATION INCLUDING PRESSURE AND LEAKAGE TESTING SHALL COMPLY WITH AWWA STANDARD C605-94 FOR PVC PIPE.
19. THE WATER LINE AND APPURTENANCE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-92.
20. ALL COMPONENTS OF THE WATER LINE INSTALLATION WHICH MAY CONTACT DRINKING WATER SHALL BE ANSI CERTIFIED AS MEETING NSF STANDARD 61 AND APPROPRIATELY STAMPED WITH THE NSF LOGO.
21. ALL WATER DISTRIBUTION LINES SHALL BE PVC PIPE, C900 CLASS 200.
22. AT EACH LOT THAT HAS A STATIC PRESSURE READING OF 60 PSI OR GREATER, THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH THE BUILDING DEPARTMENT AND INSTALL A PRV BETWEEN THE METER AND THE HOME.
23. ALL WATER LINES SHALL BE INSTALLED WITH A TRACER WIRE PER YAG STANDARD DETAIL 3-19.
24. INSTALL 1" CULINARY WATER SERVICE AT RESIDENTIAL LOTS PER YAG STANDARD DETAIL 3-16.

-INDEX OF WATER PLAN SHEETS-

SHEET	DESCRIPTION
1	COVER SHEET & NOTES
2	OVERALL INDEX LAYOUT
3	INDEX SHEET WEST SIDE
4	INDEX SHEET EAST SIDE
D-1	DETAILS
W-1 - W-48	WATER PLAN & PROFILE

QUANTITY TABULATIONS:	
6" HYDRANT LINE	365 FT
6" VALVE	31
6" FITTING	31
8" MAIN LINE	16,156 FT
8" VALVE	71
8" FITTING	114
12" MAIN LINE	2,289 FT
12" VALVE	6
12" FITTING	5
FIRE HYDRANT	31
BLOW OFF	7

UTILITY COORDINATION		
UTILITY	COMPANY	DATE PLANS SENT
POWER	APS	8/12/05
PHONE	QWEST	10/4/05
GAS	UNISOURCE GAS	10/5/05
CABLE	CABLE ONE	10/7/05



VICINITY MAP
-NTS-

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS, ORDINANCES & REQUIREMENTS OF THE TOWN OF CLARKDALE.
2. A PRECONSTRUCTION CONFERENCE WITH TOWN ENGINEER, TOWN PUBLIC WORKS, AND CONTRACTOR WILL BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF WORK.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
4. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
5. EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET OR DRIVEWAY CENTERLINE OR AS SHOWN ON PLANS AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING AS PER TOWN OF CLARKDALE SPECIFICATIONS.
6. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. ALL MATERIALS SHALL BE SUBMITTED TO TOWN FOR APPROVAL PRIOR TO ORDERING OR INSTALATION.
7. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER.
8. THE LOCATIONS OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION & ELEVATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND OR OVERHEAD UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL BLUE STAKE PRIOR TO ANY CONSTRUCTION.
9. ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY PERMIT FROM TOWN OF CLARKDALE AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION.
10. ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
12. THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE, AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSIST OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE.
13. ALL ROADWAYS, CULINARY WATER, STORM DRAIN IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TOWN OF CLARKDALE STANDARDS.
14. UTILITY CONDUITS TO BE INSTALLED AT EVERY INTERSECTION PER CLARKDALE TOWN STANDARDS. "T" INTERSECTIONS TO HAVE CONDUITS ON TWO SIDES (MIN) 4 WAY INTERSECTIONS TO HAVE CONDUITS ON 3 SIDES (MIN).
15. WHEN DISCREPANCIES OCCUR BETWEEN PLANS SPECIFICATIONS, RECOMMENDATION, AND REPORTS, THE CONTRACTOR SHALL INSTALL THAT WHICH IS RECOMMENDED BY THE TOWN ENGINEER.
16. THE CONTRACTOR SHALL COORDINATE WITH TOWN FOR ALL WATER SHUT DOWNS A MINIMUM OF 48 HOURS BEFFORE WORK IS SCHEDULED.

APPROVED:

REPRESENTATIVE ARIZONA DEPARTMENT OF TRANSPORTATION — DATE

APPROVED:

FIRE MARSHALL TOWN OF CLARKDALE, ARIZONA — DATE

APPROVED:

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY — DATE

APPROVED:

TOWN ENGINEER TOWN OF CLARKDALE, ARIZONA — DATE

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 33647 — DONALD L. LYSTER — STATE OF ARIZONA

AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS BUILT" MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE BY ME OR UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED CIVIL ENGINEER OR REGISTERED LAND SURVEYOR — DATE

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

VERDE HIGHLANDS, LLC
49 BELL ROCK PLAZA SUITE E
SEDONA, AZ 86351
(928) 649-6314

Northern ENGINEERING INC
ENGINEERING-LAND PLANNING CONSTRUCTION MANAGEMENT
1040 E. 800 N.
OREM, UTAH 84097
(801) 802-8992

JOB NO. 3-04-044-00

SHEET NO. 1

K:\3-04-044-00 106 ACRES CLARKDALE\Drawings\FINAL\WATER\COVER SHEET.dwg 8/16/2006 11:32:04 AM MST