

PUBLIC IMPROVEMENT PLANS

FOR

WYOMING WATERLINE EXTENSION

ALBUQUERQUE, NEW MEXICO

DECEMBER 2008

PREPARED FOR:
ADVANTAGE BUILDERS, INC.
P.O. BOX 2559
TIJERAS, NM 87059

PREPARED BY:
ISAACSON & ARFMAN, P.A.
128 MONROE ST. NE
ALBUQUERQUE, NM 87108

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	COVER SHEET
2	TOPOGRAPHY
	UTILITY PLAN & PROFILE SHEETS
3	WATERLINE EXTENSION

SURVEYOR'S CERTIFICATION

I, GARY E. GRITSKO, A DULY QUALIFIED REGISTERED PROFESSIONAL LAND SURVEYOR, UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. ALPHA PROFESSIONAL SURVEYING COMPANY IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING OR INTENT OF THE RECORD DRAWINGS.

Gary E. Gritsko
GARY E. GRITSKO, NMPS NO. 8686

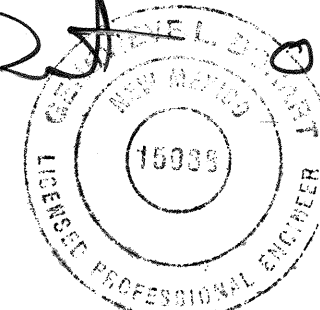
April 24, 2009
DATE



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Genevieve L. Donart, NMPE No. 15088 of the firm of Isaacson & Arfman, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by Gary E. Gritsko, NMPS No. 8686.

Genevieve L. Donart 04/24/09



APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY ENGINEER
Genevieve L. Donart
DATE: 08/21/09

PWCO #80028

APPROVED FOR CONSTRUCTION

BERNALILLO COUNTY PUBLIC WORKS DIVISION

DRB NO. N/A

ISAACSON & ARFMAN, P.A.

128 Monroe Street N.E.

Albuquerque, New Mexico 87108

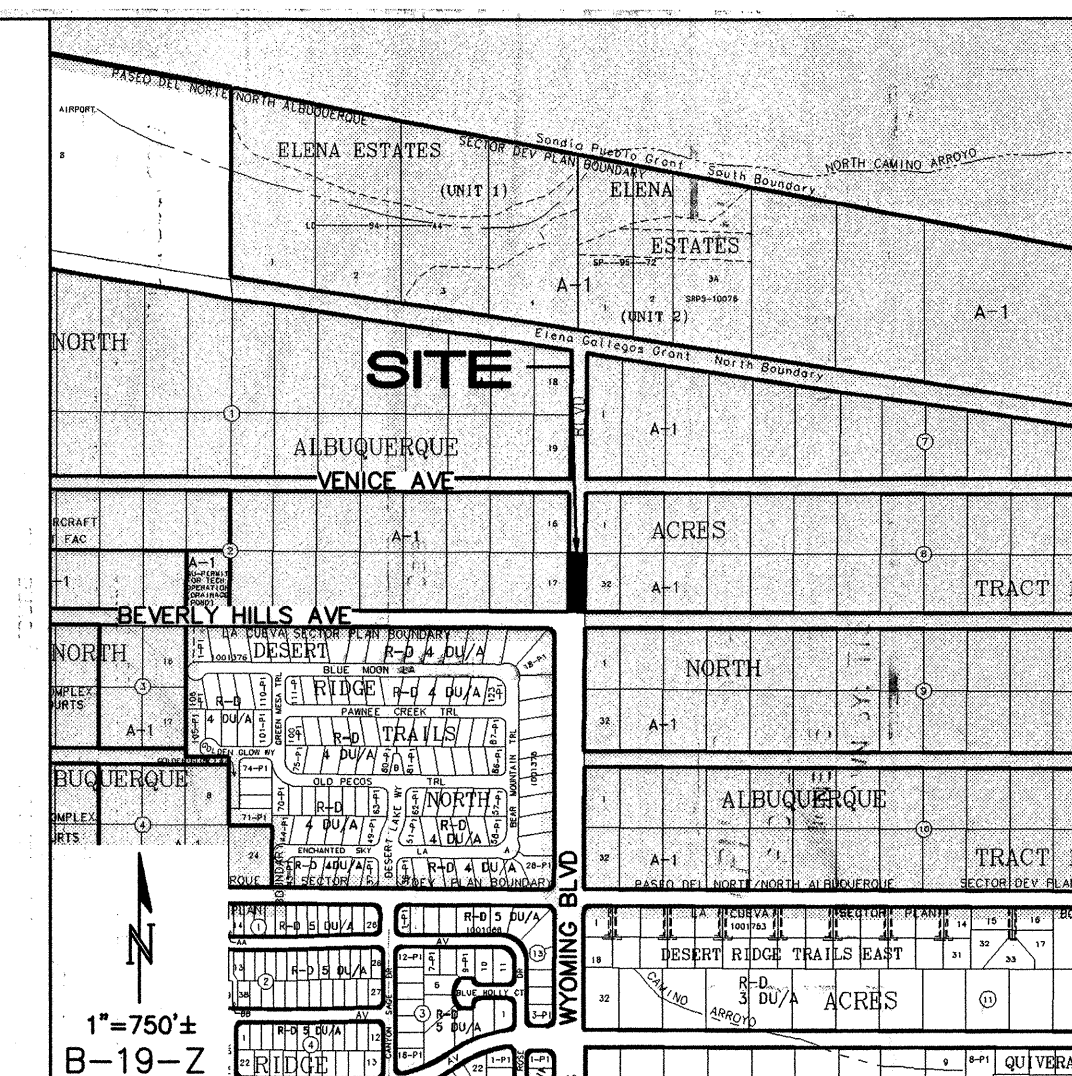
Ph. 505-268-8828 Fax. 505-268-2632

1692 C-001.dwg Dec 04, 2008

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED WITH UPDATE NO. 7, INCLUDING AMENDMENT 1.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE & VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, NM ONE CALL SYSTEMS, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS. THROUGHOUT THE DURATION OF THE PROJECT, CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMENDED WITH UPDATE NO. 7.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- TRAFFIC CONTROL: SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY CONSTRUCTION COORDINATION ENGINEER (324-3400) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET.
- WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
- EXISTING CURB AND GUTTER NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE PER COA STD DWG #2415A.
- SUPPLEMENTAL SPECIFICATION: ALL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTIONS 301.1.1 AND 701.11.2 AND STANDARD DRAWINGS NUMBERS 2346 & 2465.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 DR-18 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-10").
- ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING.
- ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS UPDATE #7.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES, AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ANY WORK OCCURRING WITHIN A FULLY DEVELOPED ARTERIAL ROADWAY REQUIRES 24 HR. CONSTRUCTION.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF PREFORMED THERMO-PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ELECTRONIC MARKER SPHERES (EMS) WILL BE PLACED ACCORDING TO SECTION 170 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
- ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE EXECUTION OF THE WATER VALVE SHUT-OFF PLAN WITH ABCWUA. ALL WATER VALVES TO BE SHUT-OFF WILL BE OPERATED BY ABCWUA. CONTRACTOR SHALL NOTIFY ABCWUA AT 857-8200 TWENTY FOUR (24) HOURS PRIOR TO WATERLINE CONSTRUCTION AND SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES IN COMPLIANCE WITH SECTION 18 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWER LINE COSTS.
- CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGHTING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT REMOVES, RELOCATES, OR REINSTALLS ANY EXISTING REGULATORY SIGNS.
- RCP PIPE JOINTS SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
- IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		*****	
		DRC Chairman		<i>Woodall</i>		1-28-09		APPROVED FOR CONSTRUCTION	
		Transportation		<i>Wing</i>		12/23/08			
		ABCWUA		<i>Wing</i>		1-13-09			
		Hydrology		<i>Wing</i>		12-29-08			
Constr. Mngmt.								ALL DATA 3-17-09 Date ABCWUA CITY ENGINEER	
Constr. Coord.									
City Project No.				675461				Sheet 1 Of 3	



SYMBOLS LEGEND

- ⚡ = FIRE HYDRANT
- ⦿ = ELECTRIC RISER
- = TELEPHONE RISER
- ⋈ = WATER VALVE
- ⊙ = SEWER MANHOLE
- ⊕ = DRAINAGE MANHOLE
- ☆ = LIGHT POLE
- WATER— = UNDERGROUND WATER LINE
- ☐ = TELEPHONE SERVICE BOX
- ⊠ = CABLE TV RISER

SPOT ELEVATION LEGEND

- = ELEVATION AT GROUND
- = ELEVATION AT TOP OF ASPHALT PAVING
- = ELEVATION AT TOP OF SIDEWALK
- = ELEVATION AT CENTERLINE OF DRIVING LANE
- = ELEVATION AT BACK OF CURB
- = ELEVATION AT FLOWLINE OF CURB
- = ELEVATION AT EDGE OF ROAD
- = ELEVATION AT TOP OF WALL
- = ELEVATION AT RIM OF MANHOLE

LOT 17, BLOCK 2
NORTH ALBUQUERQUE ACRES
VOL. 2, P. 121, 121A

SET PK. WALL 8' 1/2" AS
ON TOP OF WALL

LOT 17, BLOCK 2
NORTH ALBUQUERQUE ACRES
VOL. 2, P. 121, 121A

SCALE: 1" = 30'
0 30 60

FOR INFORMATION ONLY

TOPOGRAPHIC MAP
Lot 17, Block 2, Tract 1, Unit 3
NORTH ALBUQUERQUE ACRES
Elena Gallegos Grant
projected Section 7, T11N, R4E, NMPM
Bernalillo County, New Mexico
October 2008

LEGAL DESCRIPTION:
Lot numbered Seventeen (17), Block Two (2), NORTH ALBUQUERQUE ACRES, TRACT 1, UNIT 3, as the same is shown and designated on the plat of said subdivision, filed in the office of the County Clerk of Bernalillo County, New Mexico on September 10, 1931 in Volume D, folio 121.

SURVEY NOTES:
1. Distances shown hereon are horizontal ground distances in US feet.
2. Bearings are based on the centerline of Blue Moon Lane NE, as evidenced by existing centerline monuments set by P.S. 7719, as shown on the plat of Desert Ridge Trails North Subdivision, filed 10-07-2003 in book 2003C, Pg. 302.
3. Measured data and monuments are shown in parentheses (), where record data differs from measured data.
4. Corners shown thus "•" are set #4 rebar w/cap stamped "G. Grisako, PLS 8686", unless otherwise shown.
5. Flood Note: The property shown hereon is located in Zone X, areas determined to be outside the 0.2% annual chance flood plain, according to the Flood Insurance Rate Map of Bernalillo County, New Mexico, and incorporated Areas, Panel No. 35001C0133E, effective date November 19, 2003.
6. Reference documents:
a. Elena Gallegos Acres, Tr. 1, Un. 3, filed 9-10-1931 (D-121)
b. Plat of Desert Ridge Trails North, filed 10-07-2003 (2003C, 302)
c. Zone Atlas Page B-19
d. UPC # 1-019-065-255-30516
7. Elevations are referenced to A.G.R.S. Station "1-820". Elevation of monument is 5477.179 ft. (NAVD 1988 datum).

SURVEYOR'S CERTIFICATE:
I, Gary E. Grisako, New Mexico Professional Surveyor No. 8686, do hereby certify that this Boundary Survey Plat and the actual survey on the ground upon which it is based were conducted by me or under my direct supervision and that I am a duly licensed and qualified surveyor, and that this survey meets the Minimum Standards for Surveying in New Mexico, and that I am true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is a Boundary Survey Plat of an existing tract or tracts.

Gary E. Grisako, NMPS No. 8686

Date

SCALE: 1" = 30'

0 30 60

ALPHA PROFESSIONAL SURVEYING, INC.

P.O. Box 46316, RIO RANCHO, NEW MEXICO 87174
PHONE (505) 892-0776 FAX (505) 891-0471
DRAWN BY: TJS

FILE NO.: 08-1127

RESTRAINED JOINT LENGTHS, L _P , FOR TEES, (FT.)		
ALL JOINTS AT THE TEE MUST BE RESTRAINED.		
SIZE	RUN	BRANCH
10x10x10	12	18

RESTRAINED JOINT LENGTHS, L _P , FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS, (FT.)						
SIZE	HORZ. BENDS					VALVES & DEAD ENDS
	90°	45°	22 1/2°	11 1/4°		
12	30	12	6	3		85
10	26	11	5	3		72
8	22	9	4	2		60
6	17	7	3	2		46
4	12	5	2	1		32

THIS TABLE IS BASED UPON THE FOLLOWING CRITERIA:

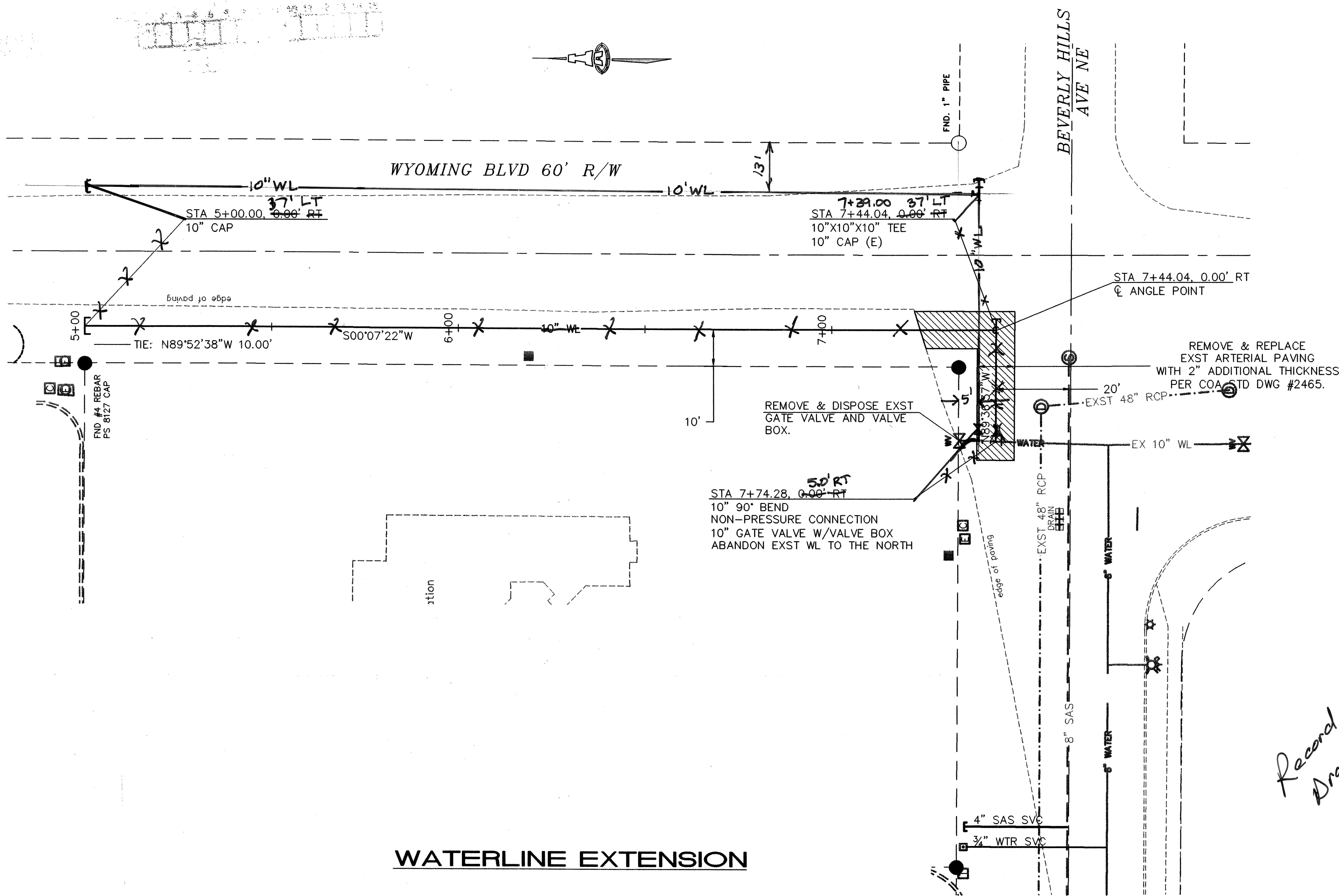
DEPTH OF BURY: 3.0 FT. MINIMUM
 FACTOR OF SAFETY: 1.25
 MATERIAL: PVC PIPE
 SOIL TYPE: GM/SM - SILTY GRAVELS AND
 SILTY SANDS, GRAVEL-SAND-SILT
 MIXTURES.
 TEST PRESSURE: 150 PSI
 TRENCH TYPE 4: PIPE BEDDED IN SAND, GRAVEL, OR
 CRUSHED STONE TO DEPTH OF 1/8 PIPE
 DIAMETER, 4 INCH MINIMUM; BACKFILL
 COMPACTED TO TOP OF PIPE.

DIFFERENT CRITERIA, E.G., DUCTILE IRON PIPE, GREATER DEPTH OF
 BURY, ETC., WILL REQUIRE DIFFERENT RESTRAINED LENGTHS.
 THESE MUST BE CALCULATED BY A QUALIFIED PROFESSIONAL
 ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.

NOTES:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MECHANICAL JOINT SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ON THIS SHEET.
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

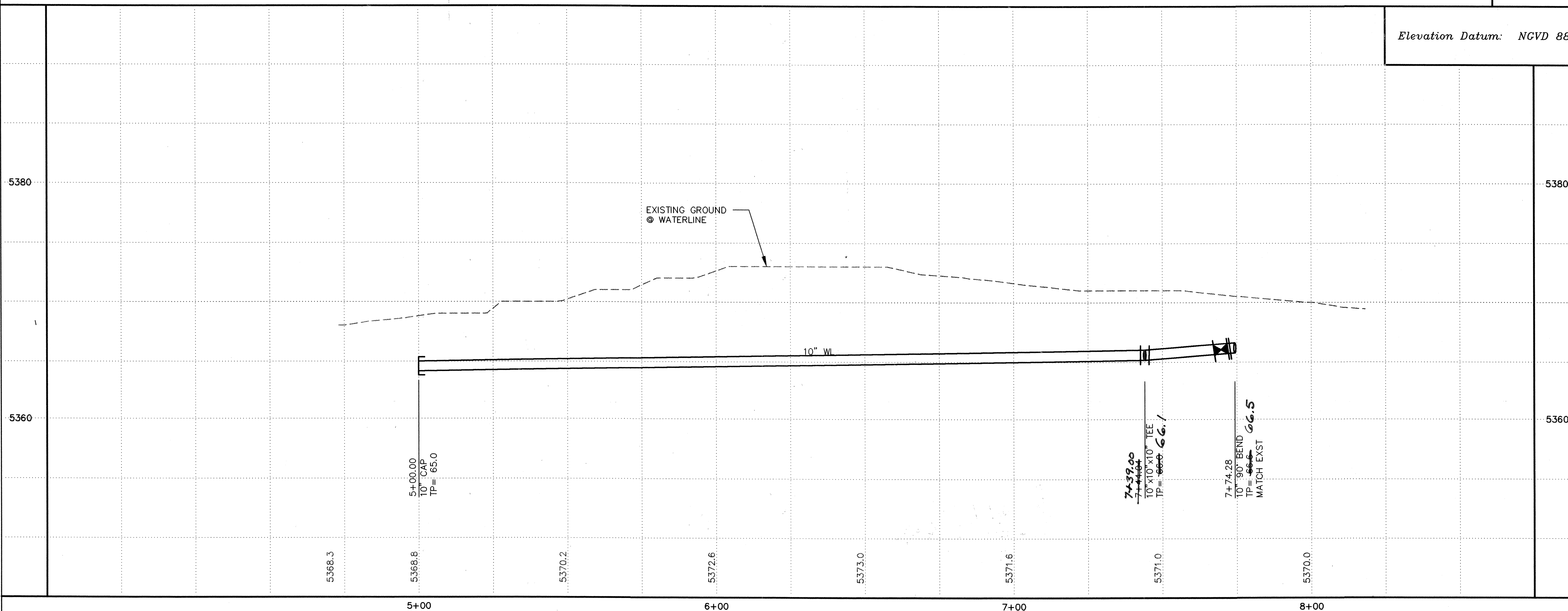
RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS



WATERLINE EXTENSION

SCALES:
1"=20' HOR.
1"=5' VERT.

Elevation Datum: NCVD 88



GENERAL NOTES

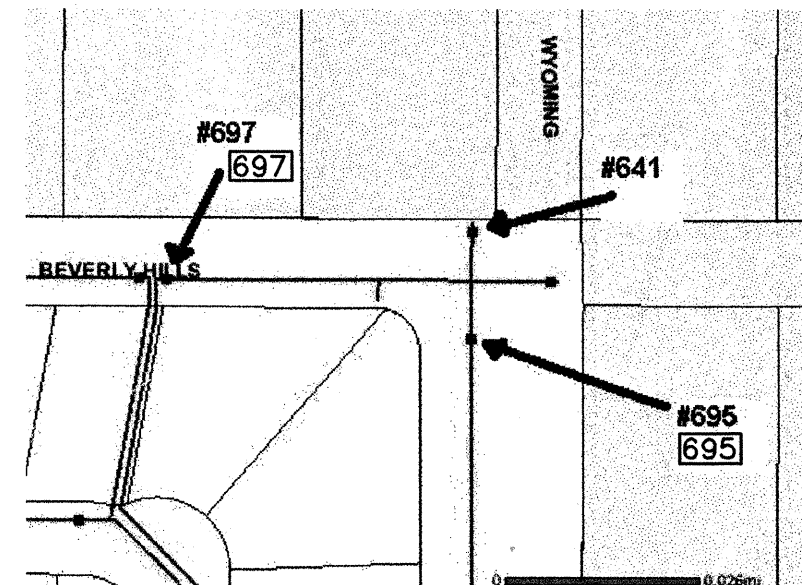
- CONSTRUCT SAS SERVICES PER COA STD DWG #2125.
- CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG #2361, #2362, & #2363.
- SEE THIS SHEET FOR WATER SHUT-OFF PLAN.
- SEE THIS SHEET FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
- CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340.
- SEE COA STD DWG #2328 FOR VALVE RING & COVER DETAIL. SEE COA STD DWG #2326 FOR VALVE BOX DETAIL.
- INSERT NEW GATE VALVES ON EXISTING WATERLINES PER COA STD DWG #2333.

AS-BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR'S NAME	DATE
INSPECTOR'S SIGNATURE	DATE
INSPECTOR'S VERIFICATION	DATE
INSPECTOR'S CORRECTION	DATE
INSPECTOR'S REVISION	DATE
INSPECTOR'S APPROVAL	DATE

BENCH MARKS	
CONTRACTOR	DATE
INSPECTOR'S NAME	DATE
INSPECTOR'S SIGNATURE	DATE
INSPECTOR'S VERIFICATION	DATE
INSPECTOR'S CORRECTION	DATE
INSPECTOR'S REVISION	DATE
INSPECTOR'S APPROVAL	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
1 ALPHA 10/2008	

ENGINEER'S SEAL	
NO.	DATE
1	10/20/08



WATER SHUT-OFF PLAN

SHUT-OFF VALVES #697 & #695 TO PROVIDE NON-PRESSURE CONNECTION. THE CONTRACTOR SHALL CONTACT ABCWUA (857-8200) 7 WORKING DAYS PRIOR TO SHUT-OFF OR TURN-ON AT VALVES. ONLY ABCWUA PERSONNEL ARE ALLOWED TO OPERATE VALVES.

ISAACSON & ARFMAN, P.A.
 Consulting Engineering Associates
 128 Monroe Street N.E.
 Albuquerque, New Mexico 87108
 Ph. 505-268-8828 Fax. 505-268-2632
 1692 CU-301.dwg Dec 31,2008

CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

TITLE: WYOMING WATERLINE EXTENSION UTILITY PLAN & PROFILE

Design Review Committee	City Engineer Approval
APPROVED JAN 2 8 2009 DESIGN REVIEW COMMITTEE	APPROVED MAR 1 3 2009 CITY ENGINEER

City Project No. 675461 / PWCO 80028 Zone Map No. B-19

Sheet 3 Of 3