BERNALILLO COUNTY OF NEW MEXICO
PUBLIC WORKS DIVISION

CONSTRUCTION PLANS

FOR

FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS

PROJECT NO. TS01-20 (SHEETS 1 THROUGH 25)

ZONE ATLAS MAPS: K11, K12, L11, L12 & M-11

MASTER LEGEND:

	EXISTING:	NEW:
Property line	— — — — — —	
Building	— — — —	
Edge of pavement	— — — —	
Pavement striping	. . . . .	
Fence	—x—x—	—x—x—x—
CMU or block wall	— — —	
Existing easement	— · — · —	— · — · —
Fiber optic line	—FIBER—	—FIBER—
Overhead electric line	— — —EOH— — —	—EOH—
Gas line	—GAS—	—G—
Water line	— — — —W— — — —	—WL—
Sanitary sewer line	— — —SAS— — —	—SAS—
Storm drain line	— — — —SD— — — —	—SD—
Index contours	—25—	—25—
Intermediate contours	—24—	—24—
Power pole		
Gas Meter		
Light pole		
Water valve		
Fire hydrant		
Water meter		
Sanitary sewer manhole		
Sanitary sewer single cleanout		
Sanitary sewer double cleanout		
Sanitary sewer service		
Sanitary Sewer—Manhole Lift Station		
Ditch Gate Valve		

ABBREVIATIONS:

Invert	INV
Rim	RIM
Estimated Ground Water Surface	

I THE UDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.

2/9/07

AS-BUILT NOTES COPY OF ORIGINAL. ORIGINAL SEAL ON CONTRACTORS AS-BUILT.

COORDINATES ARE LOCAL/PROJECT VALUES BASED ON PUBLISHED COORDINATES OF CITY MONUMENT "NM 45-4A", N=74,722.348 FEET, E=71,839.254 FEET, GEODETIC BEARINGS DETERMINED FROM GPS OBSERVATIONS AT THIS POINT, AND GROUND DISTANCES.

ELEVATIONS ARE BASED ON ELEVATIONS OF PROJECT CONTROL POINTS AND BENCHMARKS, "NM 45-4A" ELEV.=5,003.016 FEET; "17-L12" ELEV.=4,942.877 FEET; AND "AEC CP1" ELEV.=4,944.362 FEET.

VLADIMIR JIRIK, PS 10464
2119 Menaul Blvd. NE
Albuquerque, NM 87107

PROFESSIONAL SURVEYOR — STATE OF NEW MEXICO — NO. 10464 — VLADIMIR JIRIK

MAY 16 2006
DATE

P.W.C.O. 40037

BERNALILLO COUNTY PUBLIC WORKS

BERNALILLO COUNTY — STATE OF NEW MEXICO

STATE OF NEW MEXICO

DRAWING INDEX

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION
DAVID E. BISHOP — NEW MEXICO — 14694 — REGISTERED PROFESSIONAL ENGINEER — 06/21/05	DRC Chairman			
	Transportation			
	Water/Wastewater	Danny Murphy	7/7/05	
	Hydrology			
	Parks			
	Const. Coord.			CITY ENGINEER DATE
	Record Drawing			
PROJECT MANAGER	CITY PROJECT NO. 747881 COUNTY PROJECT NO. TS01-20			SHEET 1 OF 25

Roxanne Bebe Blatz
BERNALILLO COUNTY PUBLIC WORKS DIVISION

06/21/05
DATE

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS 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 INCLUDING UPDATES 1 THROUGH 7 (REFERRED TO HEREAFTER AS THE STANDARD SPECIFICATIONS), THE LATEST VERSION OF THE BERNALILLO COUNTY PUBLIC WORKS STANDARDS, OR AS MODIFIED BY THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, (505) 260-1990, FOR LOCATION OF EXISTING UTILITIES.

3. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY AND POTHOLING WILL BE INCIDENTAL.

5. RELOCATION OF EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE PAVEMENT WORK STARTS IN EACH AREA. PAVEMENT REPLACEMENT MUST CONFORM TO CITY OF ALBUQUERQUE STANDARD DRAWING 2465. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THIS WORK IS CONSIDERED INCIDENTAL TO THE PIPE LAYING PROCESS AND NO ADDITIONAL COMPENSATION WILL BE MADE.

6. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS APPROVED BY THE COUNTY ENGINEER.

7. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.

8. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.

9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. SALVAGE OF ANY MATERIAL SHALL BE IDENTIFIED BY THE COUNTY ENGINEER. WORK MATERIALS SHALL BE DISPOSED OF IN APPROVED WASTE AREAS SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.

10. ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS SHALL BE MAINTAINED IN SERVICE. SHORING, SHEETING, AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE COUNTY ENGINEER WILL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

11. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME, USING COUNTY STANDARD DRAWING 2465, AT HIS OWN EXPENSE.

12. ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND LEGALLY DISPOSED OF BY THE CONTRACTOR.

13. SPECIAL NOTICES:

   a. CONTRACTOR SHALL HAND DELIVER SPECIAL NOTICES TO EACH RESIDENCE OR BUSINESS ADJACENT TO THE CONSTRUCTION AREA AND TO OTHERS WHICH MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. SPECIAL NOTICES ARE TO INFORM RESIDENTS AND BUSINESSES IN WRITING WHENEVER ACCESS, UTILITY SERVICES OR OTHER SERVICES TO THEIR PROPERTY MAY BE IMPAIRED.

   b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

      1. DELIVERY OF SPECIAL NOTICES NOT MORE THAN SEVEN (7) DAYS PRIOR TO PHYSICAL CONSTRUCTION THAT WILL AFFECT THE PROPERTY.

      2. CORRECTED NOTICES ARE TO BE DELIVERED IF CONSTRUCTION DOES NOT START WITHIN 48 HOURS OF DATE GIVEN IN NOTICE.

      3. THE WRITTEN NOTICE IS TO STATE:

         - CONTRACTOR'S NAME, ADDRESS AND LOCAL TELEPHONE NUMBER
         - NATURE OF WORK TO BE DONE AND TIMING OF WORK
         - TYPE AND LENGTH OF DISRUPTION TO EXPECT
         - EXPECTED DURATION OF CONSTRUCTION
         - CONTRACTOR'S LOCAL PHONE NUMBER TO WHICH EMERGENCY CONDITIONS CAN BE REPORTED DURING NORMAL WORKING HOURS
         - CONTRACTOR'S LOCAL PHONE NUMBER TO WHICH EMERGENCY CONDITIONS CAN BE REPORTED DURING NON-WORKING PERIODS

14. SURVEY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE RESTORED AT CONTRACTOR'S EXPENSE.

15. MINIMUM DENSITY FOR BACK FILL SHALL BE 95% ASTM D1557 FOR SUB GRADE AND 95% ASTM D1557 FOR BACKFILL. DENSITY TEST MINIMUM FREQUENCY SHALL BE AT 200 FT. INTERVALS FOR EACH LIFT.

16. CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY SHERIFF'S OFFICE AND THE FIRE MARSHALL'S OFFICE WHEN SCHEDULED WORK WILL IMPACT EMERGENCY VEHICLE ACCESS.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION. CONTACT BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT (505) 848-1500 FOR INFORMATION.

18. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

19. CONTRACTOR SHALL SURVEY AND LOG EXISTING ELEVATIONS OF CURB AND GUTTER, SIDEWALK, AND PAVEMENT TO BE REMOVED DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE SAME TO SUCH ELEVATIONS UNLESS OTHERWISE INDICATED ON THE PLANS.

20. WATER METER BOXES AND SANITARY SEWER STUBS ARE SHOWN FOR ILLUSTRATIVE PURPOSE ONLY. THE BOXES AND STUBS SHALL BE INSTALLED IN THE RIGHT-OF-WAY/ EASEMENT AND MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

21. NO SEPARATE PAYMENT WILL BE MADE FOR RE-GRADING NEW MANHOLE FRAMES AND COVERS, VALVE BOXES THAT ARE CONSTRUCTED AND INSTALLED UNDER THIS CONTRACT, ANY RE-GRADING WORK REQUIRED TO ADJUST THESE ITEMS TO FINISH GRADE SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE MANHOLE OR VALVE BOX AS APPLICABLE.

22. THE CONTRACTOR WILL PLACE PERMANENT STRIPING AND MARKINGS. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUEL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY PAVEMENT MARKINGS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT EXISTING LOCATIONS BY THE CONTRACTOR AT HIS COST.

23. CONTRACTOR SHALL COORDINATE WITH WATER SYSTEMS DIVISION (857-2000) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED OFF.

24. PORTIONS OF THE EXISTING WATERLINE PIPE AND SANITARY SEWER LINE PIPE WITHIN THE PROJECT AREA MAY BE ASBESTOS CEMENT (AC) PIPE. WHERE EXISTING AC PIPE IS TO BE REMOVED, THE CONTRACTOR SHALL USE CARE IN REMOVING EXISTING PIPE AND SHALL COMPLY WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS, IN REMOVING AND DISPOSING OF THE ASBESTOS CEMENT PIPE. AC PIPE SHALL NOT BE RE-USED. NO DIRECT PAYMENT WILL BE MADE FOR REMOVAL AND DISPOSAL. AC WATERLINE COST TO BE INCIDENTAL TO WATERLINE INSTALLATION.

25. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR MISCELLANEOUS SITE PREPARATION, GRADING AND CLEAN UP WORK REQUIRED TO COMPLETE THE PROJECT. ALL SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.

26. THE FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR, WHENEVER A FIRE HYDRANT IS TO BE REMOVED OR IS TO BE OUT OF SERVICE.

27. PAVING OF UTILITY TRENCH CUTS SHALL CONFORM WITH CITY OF ALBUQUERQUE STD. DRAWING NO. 2465 WITHIN CITY RIGHT-OF-WAY AND BERNALILLO COUNTY STANDARD DRAWING 2465 FOR WORK WITHIN COUNTY RIGHT-OF-WAY.

28. NOISE SUPPRESSION DEVICES SHALL BE KEPT IN WORKING ORDER ON ALL EQUIPMENT IN ACCORDANCE WITH ALL FEDERAL AND STATE REGULATIONS AND CITY ORDINANCE THROUGHOUT THE COURSE OF CONSTRUCTION.

29. THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THEN SEVEN (7) DAYS PRIOR TO STARTING WORK. IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASUREMENT TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY FOR THE CITY OF ALBUQUERQUE SURVEY SECTION(768-3614). WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, HAVE THE CITY SURVEY SECTION ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.

30. CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, WATER VALVE, ETC. WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.

31. CONTRACTORS YARD, AND ANY OTHER AREAS DISTURBED BY THE CONTRACTOR NOT INCLUDED ON THE PLANS, SHALL BE TREATED WITH CLASS "A" SEEDING. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

32. REINFORCED CONCRETE STRUCTURES SHALL HAVE REINFORCING STEEL CONTINUOUS AT ALL CORNERS.

33. DOWELS SHALL BE PROVIDED AT ALL CONNECTIONS OF REINFORCED CONCRETE CONSTRUCTION.

34. THE BERNALILLO COUNTY INSPECTOR SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN CONSTRUCTION AREA LIMITS. TELEPHONE THE BERNALILLO COUNTY PUBLIC WORKS DIVISION AT 848-1500.

35. THE BERNALILLO COUNTY INSPECTOR WILL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE CONSTRUCTION AREA LIMITS.

36. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE LINES TO PROPERTIES WHEN WATER SERVICE IS INTERRUPTED FOR MORE THAN A FEW HOURS, PROPERTIES SHALL NOT BE WITHOUT WATER SERVICE OVERNIGHT. THE PROVIDANCE OF TEMPORARY WATER SERVICE SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE THEREFORE.

37. CERTAIN EXISTING HOUSES WITHIN THE PROJECT MAY HAVE MAILBOXES AT THE SIDE OF THE STREET WHICH REQUIRE RELOCATION IN ORDER TO CONSTRUCT THE NEW STREETS. CONTRACTOR SHALL CONTACT THE PROPERTY OWNER TO ALLOW THE OWNER TO MOVE THEIR MAILBOX OUT OF THE CONSTRUCTION AREA. SHOULD THE PROPERTY OWNER NOT REMOVE AND REPLACE THEIR MAILBOX THE CONTRACTOR SHALL PERFORM THE RELOCATION. WORK WILL INCLUDE THE RELOCATION OF THE MAILBOX FROM IT'S EXISTING TO THE FINAL LOCATION BEHIND THE EDGE OF PAVEMENT ONLY. CONTRACTOR SHALL COORDINATE MAIL DELIVERY DURING THE CONSTRUCTION OF THE PROJECT WITH THE U.S. POSTAL SERVICE SO THAT THERE IS NO INTERRUPTION OF MAIL SERVICE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.

38. CONTRACTOR SHALL COORDINATE AND INFORM PROPERTY OWNER PRIOR TO THE REMOVAL OF LANDSCAPING AND/OR OTHER MISCELLANEOUS IMPROVEMENTS THAT MAY BE ENCOUNTERED ALONG STREET RIGHT-OF-WAY ABUTTING PRIVATE PROPERTY THAT ARE REQUIRED TO BE REMOVED TO CONSTRUCT THE PROJECT. CONTRACTOR SHALL GIVE PROPERTY OWNER OPPORTUNITY TO REMOVE ANY LANDSCAPING THAT THE PROPERTY OWNER MAY DESIRE TO REMOVE. PAYMENT FOR LANDSCAPING AND OTHER MISCELLANEOUS ITEMS REMOVED BY THE CONTRACTOR ALONG THE RIGHT-OF-WAY AS REQUIRED TO CONSTRUCT THE PROJECT WILL BE MADE UNDER THE BID ITEM FOR SITE CLEARING AND GRUBBING.

39. REPLACEMENT AND REPAIR OF LANDSCAPING DURING AND UPON COMPLETION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO REMOVAL AS PROVIDED FOR IN THE BID ITEM FOR SITE CLEARING AND GRUBBING AND NO SEPARATE PAYMENT WILL BE MADE.

40. IT IS THE CONTRACTORS RESPONSIBILITY TO KNOW AND COMPLY WITH THE "OCCUPATIONAL SAFETY AN HEALTH ACT OF 1970", AS AMENDED.

41. THE CONTRACTOR WILL BE RESPONSIBLE TO REPLACE AT HIS OWN EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED IN THE PROCESS OF CONSTRUCTION. ALL PROPERTY CORNERS MUST BE SET BY A REGISTERED PROFESSIONAL SURVEYOR.

42. CONSTRUCTION EQUIPMENT & MATERIAL STORAGE: THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN 30 FEET FROM THE EDGE OF THE DRIVING LANE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THE WORK, INCLUDING DESIGN, INSTILLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

43. REMOVALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. "THE REMOVAL OF EXISTING ROADWAY SURFACING" WILL BE A SEPARATE BID ITEM WHICH INCLUDES REMOVAL OF ASPHALT PAVEMENT".

44. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT OR CURB AND GUTTER DURING CONSTRUCTION. APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE.

45. BERNALILLO COUNTY INSPECTOR TO VERIFY EXISTING PAVEMENT THICKNESS ON ALL CUTS.

46. CONTRACTOR SHALL PROVIDE WHATEVER MEANS NECESSARY TO PROTECT EXISTING STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTRICT USE OF VIBRATION COMPACTION EQUIPMENT WITHIN THE VICINITY OF EXISTING STRUCTURES WHICH WOULD BE SUBJECT TO DAMAGE.

47. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS IN ADVANCE TO NEEDING VALVES TURNED ON OR OFF.

48. CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR 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 THE PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND SHALL BEAR 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 TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE C.O.A. STANDARD SPECIFICATIONS.

49. THE CONTRACTOR SHALL MEET WITH APPLICABLE REPRESENTATIVES OF PRIVATE UTILITY COMPANIES, INCLUDING THE ELECTRIC COMPANY, GAS COMPANY, TELEPHONE COMPANY, AND CABLE TELEVISION COMPANY PRIOR TO BEGINNING CONSTRUCTION TO DETERMINE WHERE CONFLICTS WITH THEIR FACILITIES EXIST. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THESE FACILITIES DURING CONSTRUCTION OPERATIONS OF THIS PROJECT AND MAINTAIN THEIR SERVICES. THE CONTRACTOR IS ADVISED THAT ALL DATA FOR UNDERGROUND UTILITIES SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN COMPLIED FROM THE RECORDS OF THE OWNERS OF THE UTILITIES, THE CITY OF ALBUQUERQUE AND FROM FIELD OBSERVATIONS. THESE MAY OR MAY NOT BE ACCURATE. HE IS CAUTIONED THAT HE IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF, FOR PROVIDING PROTECTION FOR AND MAINTAINING IN OPERATION, ALL SUCH LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE ALL PUBLIC UTILITY COMPANIES NOTICE IN WRITING, NO LESS THAN 48 HOURS, PRIOR TO ANY WORK THAT WOULD INTERFERE IN ANY WAY WHATSOEVER WITH THE SERVICE OF ANY EXISTING PUBLIC UTILITIES, CITY OWNED FACILITIES OR COUNTY OWNED FACILITIES.

50. RECORDING OF WORK: THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE P.M. FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT. SEE ALSO SECTION 7 PARAGRAPH 22 OF THE CONSTRUCTION CONTRACT BID SPECIFICATIONS.

51. CONTRACTOR SHALL BE RESPONSIBLE FOR VIDEOTAPING ALL EXISTING BUILDINGS AND OTHER STRUCTURES WITHIN 200 FEET OF CONSTRUCTION LIMITS PRIOR TO STARTING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
MAINTENANCE ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO 14694
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
CONSTRUCTION NOTES, LEGEND & INDEX OF DRAWINGS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No.
Sheet 2A Of 25

ENVIRONMENTAL NOTES:

1. DISPOSAL OF UNSUITABLE MATERIALS & DEBRIS: THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF THE DETAILS OF THE DISPOSAL OPERATIONS, BORROW, MATERIALS, ROCK WASTE, VEGETATION DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BEEN COMPLETED AND WILL BE PROVIDED TO THE CONTRACTOR.

2. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, ASPHALT PAVING, CONCRETE PAVING, CURB & GUTTER, SIDEWALKS, DRIVEWAYS AND OTHER REMOVAL ITEMS SHALL BE LOCATED BY THE CONTRACTOR. ALL COST INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE THEREFORE. THE DISPOSAL SITE SHALL BE ENVIRONMENTALLY ACCEPTABLE AND APPROVED BY THE PROJECT MANAGER, ALSO, A PERMITTED FACILITY FOR DISPOSABLE HAZARDOUS WASTE SHALL BE LOCATED AND APPROVED BY PROJECT MANAGER.

3. CONTRACTOR ACTIVITIES IN THE VICINITY OF WATERWAYS: ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPROVEMENTS, WETLANDS, OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOILS DISTURBANCES AND EROSION. EROSION, CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED. AS DETERMINED BY THE PROJECT MANAGER. EQUIPMENT REFUELING, MAINTENANCE, AND CEMENT DUMPING IN THE VICINITY OF WATER CROSSINGS IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.

4. THE CONTRACTOR SHALL ENSURE THAT DAMAGE TO OR REMOVAL OF VEGETATION WILL BE KEPT TO A MINIMUM AND THAT NO EXTRANEOUS CLEARING, GRUBBING, LAND DISTURBANCE OR EXCAVATION WILL TAKE PLACE. CONSISTENT WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS SECTION 107.28 PROTECTION & RESTORATION OF PROPERTY & LANDSCAPING, SECTION 201, CLEARING & GRUBBING, AND SUBSECTION 603.32 CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL SEE TO IT THAT TREES AND SHRUBS WITHIN THE RIGHT-OF-WAY AND ALONG THE FENCE LINES ARE NOT OVERRUN OR DAMAGED BY CONSTRUCTION EQUIPMENT UNNECESSARILY. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL HAVE TEMPORARY AND PERMANENT EROSION CONTROL. MEASURES IMPLEMENTED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEW MEXICO WATER UTILITY ACT AND APPLIANCE CLEAN WATER ACT PERMITS AND REGULATIONS. THE CONTRACTOR SHALL BEAR THE FULL COST OF IMPLEMENTATION OF EROSION CONTROL. MEASURES AND VEGETATION REMEDIATION NECESSARY DUE TO THE CONTRACTOR'S NEGLIGENCE AS DETERMINED BY THE PROJECT MANAGER AND THE ENVIRONMENTAL PROGRAM MANAGER'S REPRESENTATIVE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT WILL BE MADE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NPDES PERMIT DURING CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, NOTICE OF TERMINATION APPLICATION, AND FULFILLING ALL OTHER NECESSARY NPDES REQUIREMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE SUBMITTAL OD A POLLUTION PREVENTION PLAN AND INSPECTION REPORTS. THESE ITEMS SHALL BE PAID FOR UNDER THE BID ITEM FOR "NPDES STORM WATER PERMITTING AND SWPPP."

6. ANY CHECK DAMS OR SILT FENCES THAT ARE CALLED FOR ON THE REQUIRED POLLUTION PREVENTION PLAN SHALL BE PAID UNDER THE BID ITEM FOR "NPDES STORM WATER PERMITTING AND SWPPP."

7. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL CLEAN ASPHALT PAVEMENT AND CONCRETE MATERIAL TO BE REMOVED ACCORDING TO THE PLANS. CLEAN ASPHALT IS CLASSIFIED AS FILL MATERIAL AND IS NOT SUBJECT TO THE SOLID WASTE MANAGEMENT REGULATIONS OF THE NEW MEXICO ENVIRONMENTAL DEPARTMENT. CLEAN IS DEFINED AS BEING FREE OF SOLID WASTE OR CONTAMINANTS WHICH HAVE THE POTENTIAL OF MIGRATE INTO SURFACE OR GROUND WATER. THE MATERIAL SHALL BE COVERED WITH TWO FEET OF CLEAN EARTH IMMEDIATELY AFTER DISPOSITION. THE MATERIAL CANNOT BE PLACED INA WATERCOURSE, ARROYO, OR WITHIN 10 FEET OF GROUNDWATER. IF THE ASPHALT AND CONCRETE MATERIAL IS NOT CLEAN IT IS SUBJECT TO THE SOLID WASTE ACT AND MUST BE PLACED IN AN APPROVED LANDFILL. ALL DISPOSAL SITES ARE SUBJECT TO THE APPROVAL OF THE RESPECTIVE LANDOWNER AND THE PROJECT MANGER.

ASBESTOS CEMENT PIPE REMOVAL & DISPOSAL:

1. DESCRIPTIONS OF WORK: REMOVE, TRANSPORTATION AND DISPOSE ALL ASBESTOS CEMENTS (AC) PIPE, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE WORK SPECIFIED HEREIN SHALL BE THE REMOVAL OF ALL AC PIPE BY COMPETENT PERSONS IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL VERIFY THE EXISTING AND LOCATION OD ASBESTOS PIPELINE BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE SUCESSFUL CONTRACTOR TO MAKE PROPER ARRANGEMENT WITH AUTHORIZED AGENCY FOR HANDLING BUT NOT LIMITED TO REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL ASBESTOS PIPES.

2. SUBMITTALS: PROOF, SATISFACTORY TO THE ENGINEER, THAT REQUIRED PERMITS TO HAVE BEEN OBTAINED AND THE ARRANGEMENTS FOR TRANSPORTATION AND DISPOSAL OF ASBESTOS PIPELINE CONTAINING WASTE MATERIALS HAVE BEEN MADE. ALL DUMP RECEIPTS, TRIP TICKETS, TRANSPORTATION MANIFESTS OR OTHER DOCUMENTATION OF DISPOSAL SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR HIS/HER RECORDS. USE A RECORD KEEPING FORMAT THAT UTILIZES A CHAIN OF CUSTODY FORM WHICH INCLUDES THE NAMES AND ADDRESSES OF THE GENERATOR (OWNER), CONTRACTOR, PICKUP SITE, AND DISPOSAL SITE, THE ESTIMATED QUANTITY OF THE ASBESTOS WASTE AND TYPE OF CONTAINER, AND THE DISPOSAL SITE OPERATOR, AS THE RESPONSIBILITY FOR THE MATERIAL CHANGING HANDS. IF A SEPARATE HAULER IS EMPLOYED, HIS NAME, ADDRESS, TELEPHONE NUMBER AND SIGNATURE MUST ALSO BE ALSO APPEAR ON THE FORM. EACH COPY OF THE WASTE MANIFEST IS TO BE SIGNED BY ALL PERSONS INVOLVED IN THE CHAIN OF CUSTODY OF THE ASBESTOS WASTE.

3. MEASUREMENT AND PAYMENT: THE ASBESTOS PIPES SHALL BE REMOVED, TRANSPORTED AND DISPOSED OF BY AN AUTHORIZED AND REGISTERED AGENCY. IF THE CONTRACTOR IS NOT AUTHORIZED TO HANDLE ASBESTOS PIPES HE/SHE SHALL MAKE ARRANGEMENT WITH AUTHORIZED AND REGISTERED AGENCY FOR HANDLING ASBESTOS PIPES. THE PAYMENT FOR REMOVAL, HANDLING, TRANSPORTATION AND DISPOSAL OF EXISTING WATERLINE SHALL BE INCIDENTAL.

RELEVANT NEW MEXICO REGULATIONS AND OFFICE:
NEW MEXICO/SOLID WASTE MANAGEMENT REGULATIONS/TITLE 20-CHAPTER 9-PART 1
WEB SITE ADDRESS - www.nmenv.state.nm.us

M.R.G.C.D. GENERAL NOTES:

1. ANY WORK TO BE PERFORMED WITHIN THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (M.R.G.C.D.) RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH THE M.R.G.C.D. ENGINEERING DEPARTMENT AND APPROPRIATE FIELD OFFICE. PHONE: (505) 247-0234

2. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE M.R.G.C.D. BETWEEN MARCH 1 AND OCTOBER 31 INCLUSIVE. HOWEVER, WORK MAY BE PERMITTED BY THE M.R.G.C.D. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE M.R.G.C.D. FACILITY. ALL WORK TO BE DONE WITHIN THE M.R.G.C.D. FACILITIES MUST BE APPROVED BY THE M.R.G.C.D. ENGINEER PRIOR TO COMMENCING WORK.

3. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT-OF-WAY WHICH MAY INTERFERE WITH OPERATIONS AND MAINTENANCE OF THE M.R.G.C.D. FACILITY.

4. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN M.R.G.C.D. RIGHT-OF-WAY.

5. SEEDING OF DISTURBED AREAS WITHIN THE M.R.G.C.D. RIGHTS OF WAY IS REQUIRED PER THE M.R.G.C.D. SEEDING SPECIFICATIONS.

6. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.

7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACEMENT OF ANY STRUCTURES REMOVED AND/OR DAMAGED DUE TO THE CONTRACTORS ACTIVITIES WITHIN THE DISTRICTS RIGHT-OF-WAY. SHOULD ANY TURNOUTS, CULVERT PIPES, AND/OR STRUCTURES REQUIRE REPLACEMENT DUE TO LEAKAGE AND/OR DAMAGE BY THE CONTRACTOR, NEW TURNOUTS, AND NEW CULVERT PIPES AND/OR NEW STRUCTURES SHALL REPLACE THE DAMAGED ITEM. REPAIRS AND/OR REPLACEMENTS WITHIN THE DISTRICTS RIGHT-OF-WAY MUST COMPLY WITH THE DISTRICTS SPECIFICATIONS.

8. ALL DAMAGED CULVERT CROSSINGS AND CULVERT CROSSINGS REMOVED AND/OR DISTURBED MUST BE RESTORED AND/OR REPLACED TO THE SATISFACTION OF THE M.R.G.C.D. AND COMPLY WITH M.R.G.C.D. SPECIFICATIONS.

9. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO M.R.G.C.D..

10. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING A "SPECIAL USE LICENSE AGREEMENT" WITH THE M.R.G.C.D. PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO THE CONTRACTOR FOR THIS "SPECIAL USE LICENSE AGREEMENT".

11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (M.R.G.C.D.) AT 247-0234 TO PROVIDE NOTICE OF THE SCHEDULE FOR CONSTRUCTION AT THE M.R.G.C.D. FACILITIES. ALL WORK TO BE PERFORMED IN THE M.R.G.C.D. RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH M.R.G.C.D. M.R.G.C.D. WILL REQUIRE THE CONTRACTOR TO SIGN A SPECIAL USE PERMIT AND PROVIDE A $2,500 SECURITY DEPOSIT PRIOR TO WORKING IN M.R.G.C.D. R/W.

12. REINFORCED CONCRETE PIPE CULVERT SHALL CONFORM TO ASTM DESIGNATION 076-72, CLASS III, WALL B, USING "O" RING GASKETED JOINTS.

13. CORRUGATED METAL PIPE CULVERT SHALL CONFORM TO INTERIM FEDERAL SPECIFICATION WW-P-00405, CLASS I AND II, SHAPES 1,2, AND 3.

14. CULVERT CROSSINGS SHALL BE SET AT AN ELEVATION PROVIDING A MAXIMUM BACK WATER EFFECT OF NOT MORE THAN 0.25' AS DETERMINED BY HYDRAULIC COMPUTATIONS.

15. TRANSITIONS SHALL BE PROVIDED AT BOTH INLET AND OUTLET OF THE PIPE AS SHOWN ON THE DRAWINGS. TRANSITIONS MAY BE CONSTRUCTED OF CONCRETE OR GROUTED RIP-RAP.

16. GROUTED RIP-RAP PROTECTION SHALL BE USED ADJACENT TO STRUCTURES IN EARTH-SURFACED WATERWAYS WHERE EROSION MAY OCCUR. RIP-RAP SHALL BE HARD, DENSE, AND DURABLE.

17. ALL BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM PROCTOR TEST, 95% FOR ROADWAYS.

18. NO CULVERT INSTALLATIONS ARE PERMITTED DURING THE IRRIGATION SEASON (MARCH 1 TO NOVEMBER 1 INCLUSIVE).

19. THE LICENSEE SHALL CLEAN AND REMOVE ALL SILT AND DEBRIS WITHIN THE CULVERT CROSSING ON AN ANNUAL BASIS PRIOR TO MARCH 1st AND THEREAFTER.

20. THE LICENSEE SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CULVERT CROSSING AND ALL ACCESSORIES ON THE CULVERT CROSSING.

21. THE LICENSEE SHALL BE RESPONSIBLE FOR THE CONTROL OF VEGETATION ON AND AROUND THE CULVERT CROSSING.

22. PRIOR TO ANY CONSTRUCTION WITHIN M.R.G.C.D. THE CONTRACTOR MUST SIGN A SPECIAL USE PERMIT AND PAY M.R.G.C.D. AN ASSOCIATED REFUNDABLE SECURITY DEPOSIT TO ENSURE PERFORMANCE.

23. THE ISLETA DRAIN SHALL NOT BE DISTURBED. ANY METHODS NEEDED TO BE EMPLOYED TO ENSURE THAT THE DRAIN IS NOT DISTURBED SHALL BE INCIDENTAL TO THE TRENCHING BID ITEM.

USEPA GENERAL NOTES:

1. IF ANY THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS ARE DISCOVERED DURING CONSTRUCTION, WORK WILL CEASE IMMEDIATELY AND THE EPA WILL BE NOTIFIED IN ORDER THAT APPROPRIATE MEASURES CAN BE TAKEN IN ACCORDANCE WITH THE ENDANGERED SPECIES ACT.

2. CONSTRUCTION MATERIAL AND WASTE PRODUCTS, INCLUDING MACHINERY LEAKAGE, MAINTENANCE MATERIAL AND SPILLS, WILL BE CONTAINED AND PROPERLY DISPOSED PRIOR TO PROJECT COMPLETION.

3. IF HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, APPROPRIATE LAW ENFORCEMENT AUTHORITIES AND THE OFFICE OF THE MEDICAL EXAMINER WILL BE CONTACTED.

4. IF CULTURAL MATERIALS ARE DISCOVERED DURING CONSTRUCTION, WORK WILL CEASE IMMEDIATELY AND EPA AND THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER WILL BE NOTIFIED OF THE DISCOVERY. EPA WILL PROCEED IN ACCORDANCE WITH THE REGULATIONS OF THE ADVISORY COUNCIL ON HISTORIC PRESERVATION PRIOR TO TAKING ANY ACTION WHICH WOULD AFFECT THE CULTURAL RESOURCES.

WATER CONNECTION NOTE:

FOR HOMES ON WELL SWITCHING TO CITY WATER:

- WELL SUPPLY LINE TO RESIDENCE MUST BE CUT AND CAPPED BEFORE CONNECTING TO CITY SERVICE.

EFFECTIVE JULY 1, 2003, THE ALBUQUERQUE-BERNALILLO WATER UTILITY AUTHORITY WAS ESTABLISHED AS A JOINT CITY OF ALBUQUERQUE-BERNALILLO COUNTY AGENCY TO ADMINISTER THE WATER AND WASTEWATER UTILITIES CURRENTLY OWNED AND OPERATED BY THE CITY OF ALBUQUERQUE. THIS PROJECT WILL BE CONSTRUCTED DURING THE TRANSITION PERIOD WHILE THE CITY IS TO TRANSFER ALL FUNCTIONS, APPROPRIATIONS, MONEY, RECORDS, EQUIPMENT, AND OTHER REAL AND PERSONAL PROPERTY TO THE AUTHORITY. AT THE TIME THAT THESE PLANS WERE PREPARED, THE SPECIFIC DETAILS OF THE TRANSITION WERE NOT AVAILABLE TO THE ENGINEER OR OWNER. REFERENCES TO THE CITY OF ALBUQUERQUE IN THESE PLANS OR IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #7, MAY BE AFFECTED. AS SUCH THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL NECESSARY ACTIVITIES WITH THE PROJECT ENGINEER AND THE ALBUQUERQUE-BERNALILLO COUNTY WATER UTILITY AUTHORITY DURING THE CONSTRUCTION CONTRACT PERIOD, IF NECESSARY.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP — NEW MEXICO — 14694 — REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY

REVISIONS

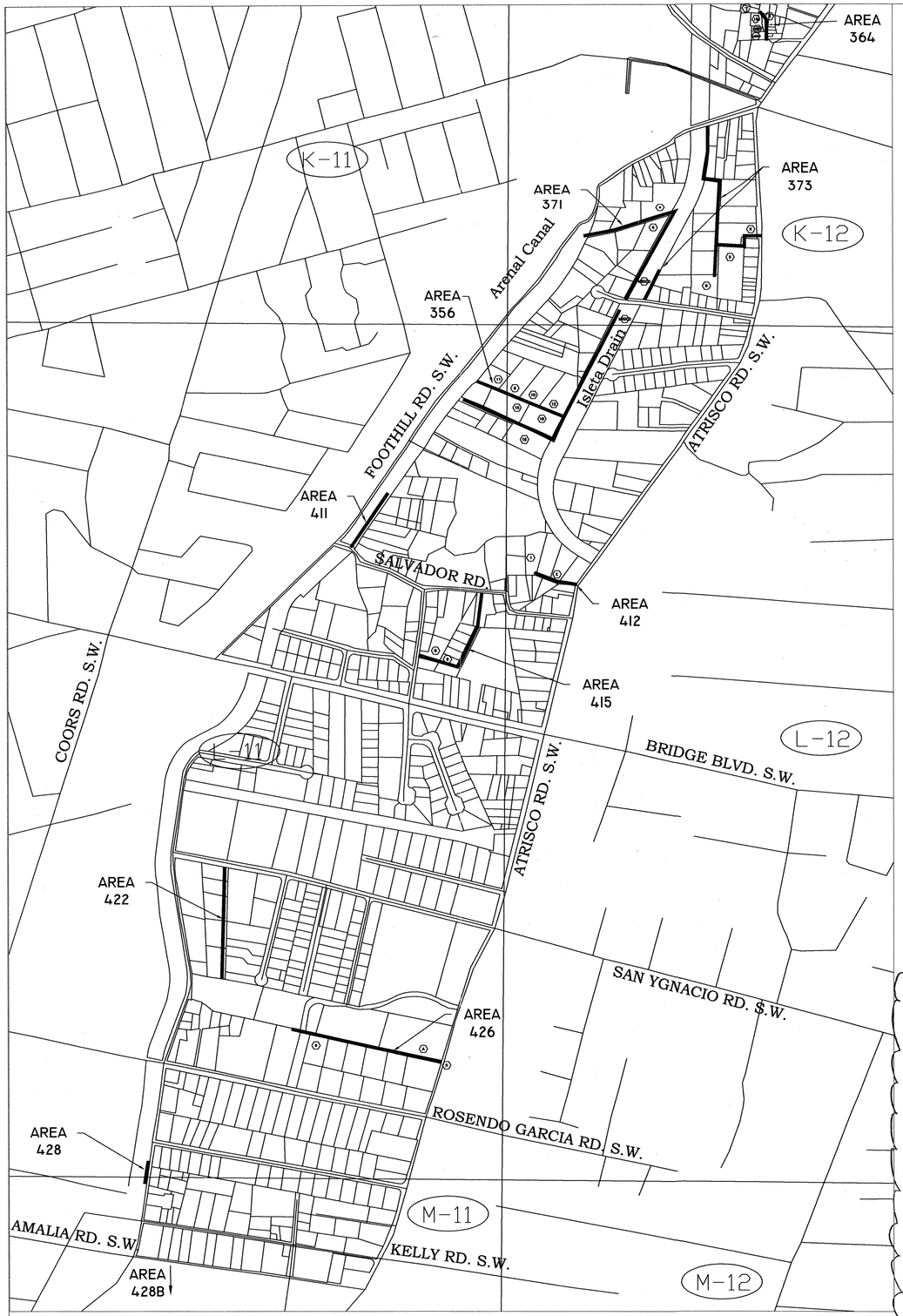
DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

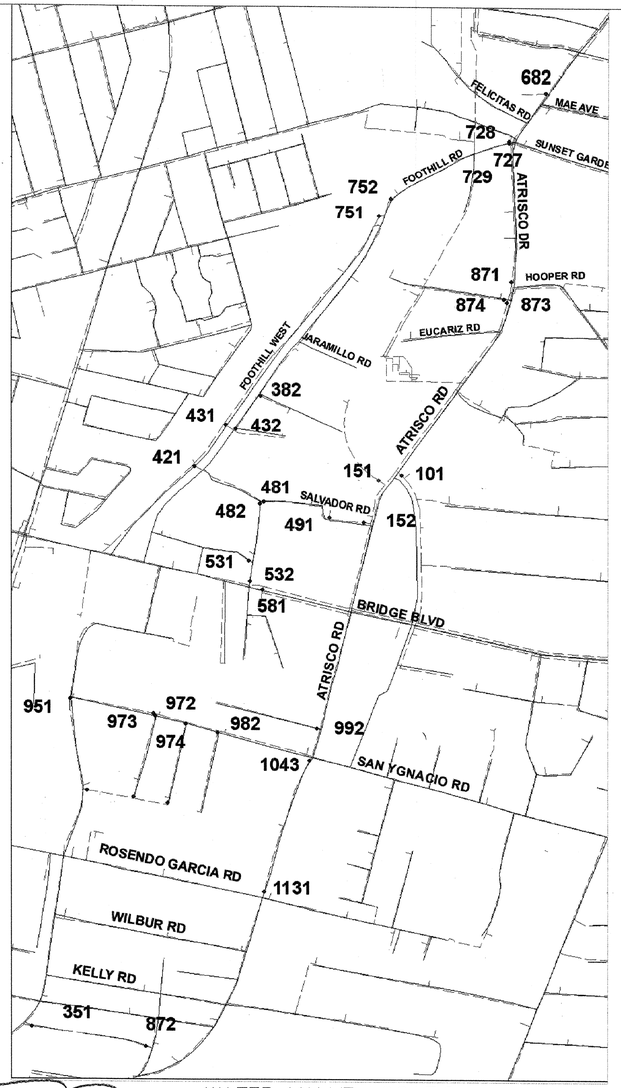
TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
CONSTRUCTION NOTES, LEGEND & INDEX OF DRAWINGS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No.
Sheet 2B Of 25



OVERALL SITE MAP/EASEMENTS



WATER VALVE LOCATION

EASEMENT SCHEDULE

EASEMENT #.	NAME	TYPE	WIDTH	VOLUME	FOLIO	DOCUMENT	BOOK	PAGE
356-9	HELEN & MABLE JARAMILLO	PUBLIC WATER & SEWER EASEMENT	12.5			2005029096	Bk-A92	8987
356-10	RAYMOND LEROY JARAMILLO	PUBLIC WATER & SEWER EASEMENT	12.5			2005029097	Bk-A92	8988
356-11	ALBERT T. & MARIANA SANDOVAL	PUBLIC WATER & SEWER EASEMENT	25			2005029098	Bk-A92	8989
356-12	JAIME DOZAL & CELIA MARTINEZ	PUBLIC WATER & SEWER EASEMENT	12.5			2005029099	Bk-A92	8990
356-15	LAWRENCE & MARY JOE MARTINEZ	PUBLIC WATER & SEWER EASEMENT	12.5			2005029100	Bk-A92	8991
356-16	FRANK B. & BERTHA E. GURULE	PUBLIC WATER & SEWER EASEMENT	20			2005029102	Bk-A92	8993
356-18	BENNIE & CHRISTINE MARTINEZ	PUBLIC WATER & SEWER EASEMENT	12.5			2005029101	Bk-A92	8992
356-MRGCD	ISLETA DRAIN MRGCD	LICENSE AGREMENT						
~~364-A1~~ 16	TOM R. FORTH	PUBLIC WATER & SEWER EASEMENT	20			2006068102	BK-A116	7898
~~364-A2~~ 7	FELIX & DOLORES LUCERO	PUBLIC WATER & SEWER EASEMENT	20			2006099329	BK-A119	9050
364-8	LISA EDWINA GRIEGO	PUBLIC WATER & SEWER EASEMENT				2006110972	BK-A121	661
371-4	RICHARD & EDITH C. ROMERO	PUBLIC WATER & SEWER EASEMENT	24			2005029104	Bk-A92	8995
371-6	RICHARD & EDITH C. ROMERO	LETTER (1)				2007046842	BK-134	6753
371-MRGCD	ISLETA DRAIN MRGCD	LICENSE AGREMENT						
373-5	ELOISA HERRERA	PUBLIC WATER & SEWER EASEMENT	25			2004173869	Bk-A88	3392
373-8	LOURDES DUENAS	PUBLIC WATER & SEWER EASEMENT	25			2005029103	Bk-A92	8994
~~373-8~~	~~LOURDES DUENAS~~	~~LETTER~~				NOT REQUIRED		
373-R	CARLOTA ROAD	PLAT	40					
373-MRGCD	ISLETA DRAIN MRGCD	LICENSE AGREMENT						
412-E	412 EASEMENT	SEWER EASEMENT	20			1995029862	Bk-95-7	6528
412-1	CORINA T. BACA	LETTER REFERENCES DOC. ABOVE	20			2007073876	BK-A137	3723
415-B	JOE & MARGARET MARQUEZ	PUBLIC WATER & SEWER EASEMENT	20			2006061937	BK-A116	1744
415-9	CLORINDA BAROS	LETTER (2)				2007046843	BK-A134	6754
415-9	CLORINDA BAROS	PUBLIC WATER & SEWER EASEMENT	20					
422	NIEVES T. BACA, JUAN HERRERA	PUBLIC WATER & SEWER EASEMENT	20			1983-5796	VOL.988	PG.132
~~426-A~~	~~PADILLA~~					NOT REQUIRED		
426-5	COUNTY OF BERNALILLO	QUIT CLAIM DEED	12			2005153865	BK-A105	3433
426-6	MARIA SAIZ	LETTER (3)	20			2007068939	BK-A136	8801
415-FIRE HYD	DAVID JUAN SEDILLO	PUBLIC WATER & SEWER EASEMENT				2006055189	BK-115	5071
373-4	ALFONS & ANGELINA SAAVEDRA	PUBLIC WATER & SEWER EASEMENT	25			2006036594	BK-113	6468
373-1	ALICE BALDONADO	PUBLIC WATER & SEWER EASEMENT	25			2006036595	BK-113	6469
373-3	JESUS & JUANA TARANGO	PUBLIC WATER & SEWER ESMT.	25			2007046844	BK-A134	6755

LETTER REFERENCE INFORMATION

(1) PLAT 8613781, BK C29 PG.130

(2) DOC # 200416007, BK-A86, PG.9632
DOC # 91262, VOL.738, FOLIO 547

(3) BK. MISC-81, PG.619
VOL. C-07, BK.126 70087103

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID E. BISHOP — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT REVISIONS	

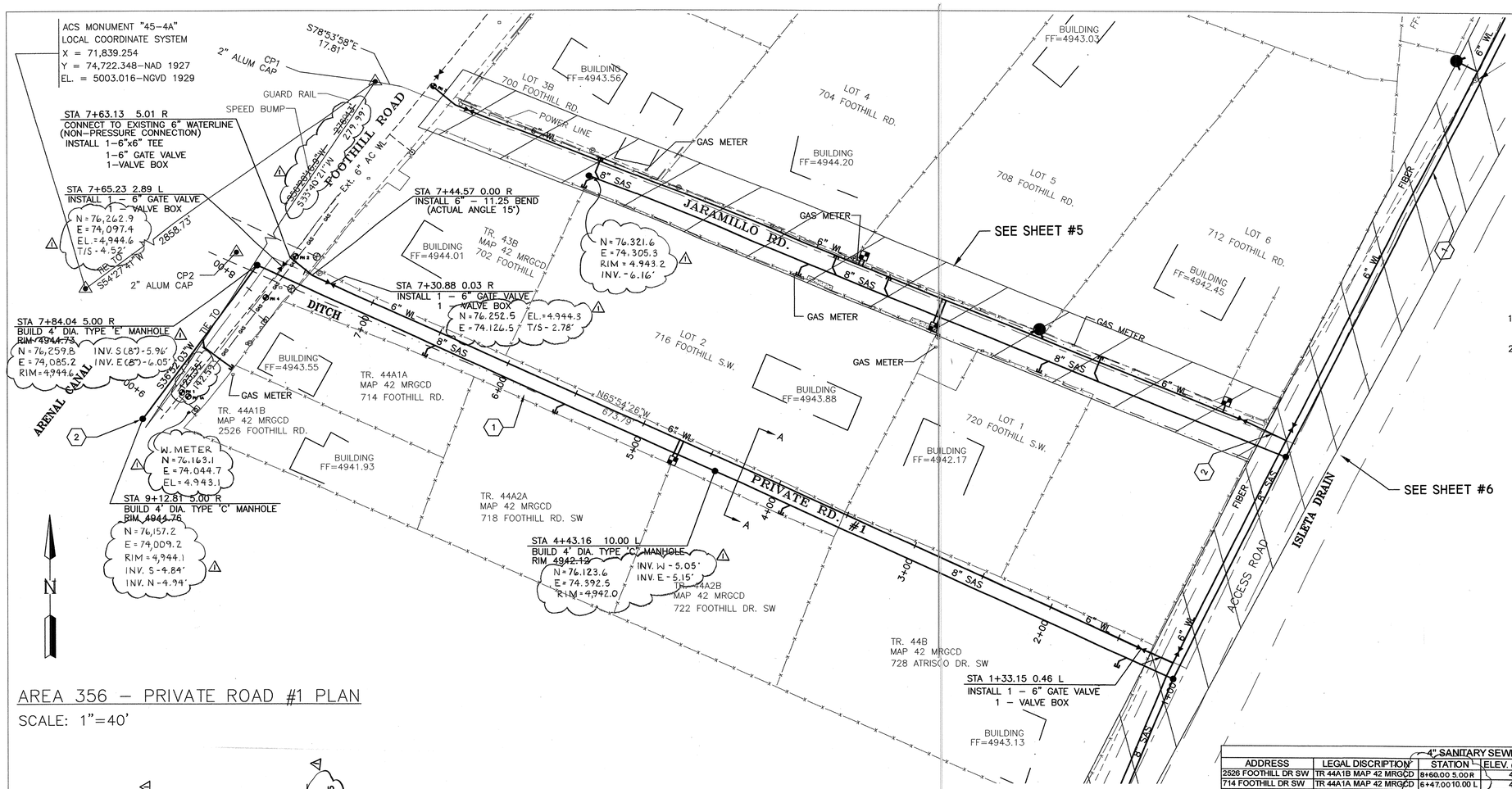
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
OVERALL SITE MAP

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. K-12, L11 & L12
Sheet 3 Of 25



AREA 356 – PRIVATE ROAD #1 PLAN

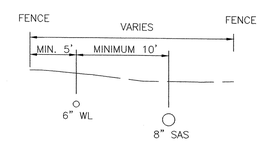
SCALE: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST.
5. OPEN ALL VALVES.

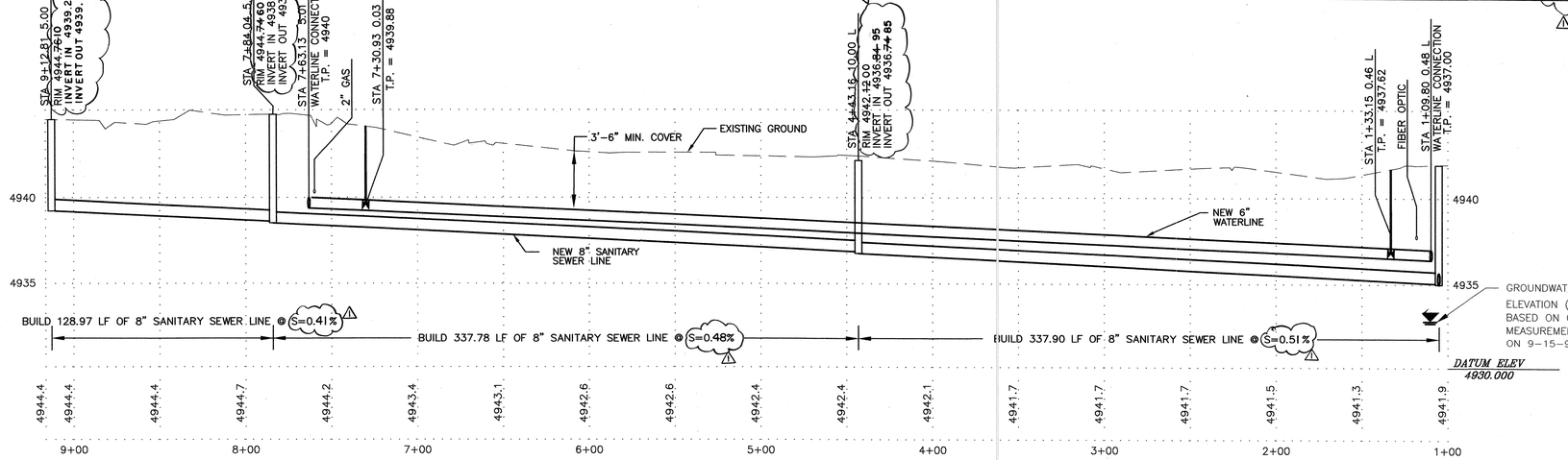
CONSTRUCTION NOTES

1. IF DITCH DISTURVBED DURING CONSTRUCTION, IT MUST BE REPLACED TO ORIGINAL CONDITION.
2. EXTEND 8" LINE 10' SOUTH OF MANHOLE AND CAP.



SECTION A – A
NTS: PUBLIC EASEMENT VARIES

4" SANITARY SEWER/WATER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
2526 FOOTHILL DR SW	TR 44A1B MAP 42 MRGCD	8+60.00 5.00 R	4939.58	4939.78	20.00	
714 FOOTHILL DR SW	TR 44A1A MAP 42 MRGCD	6+47.00 10.00 L	4938.52	4938.60	8.00	
718 FOOTHILL RD SW	TR 44A2A MAP 42 MRGCD	5+44.00 10.00 L	4938.05	4938.13	8.00	4+73.45 0.01 L
722 FOOTHILL DR SW	TR 44A2B MAP 42 MRGCD	3+94.00 10.00 L	4937.13	4937.21	8.00	4+70.70 0.03 L
728 ATRISCO DR SW	TR 44B MAP 42 MRGCD	1+44.00 10.00 L	4935.89	4935.97	8.00	



AREA 356 – PRIVATE ROAD #1 PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	356	76,383.983	74,165.472	4944.362
AEC CP2	356	76,268.499	74,071.630	4944.996

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO. DATE 12/05
INSPECTION & ACCEPTANCE BY B.C.PWD DATE 6/06
FIELD VERIFICATION BY B.C.PWD DATE 6/06
DRAWINGS CORRECTED BY B.C.PWD DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO 14894 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 356 – PRIVATE ROAD #1

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
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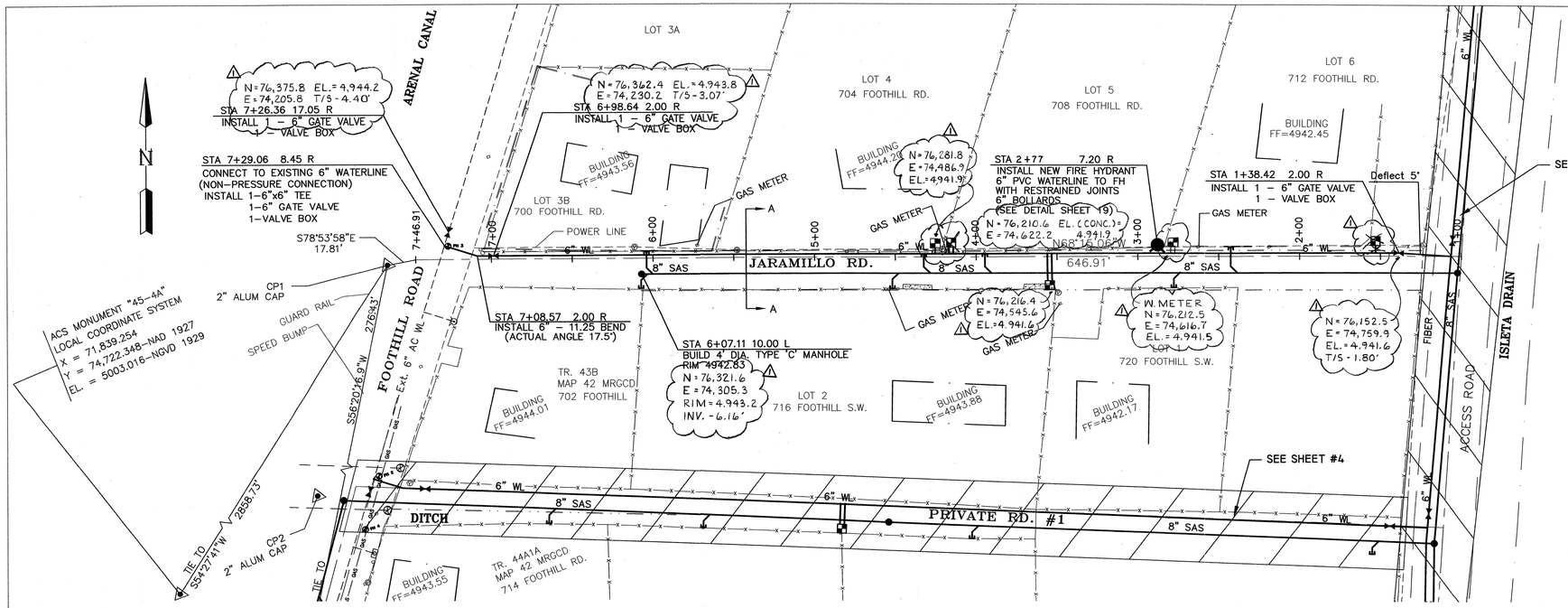
Zone Map No. K-12, L11 & L12
Sheet 4 Of 25

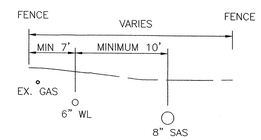


AREA 356 – JARAMILLO ROAD PLAN

SCALE: 1"=40'

WATER SHUT-OFF PLAN

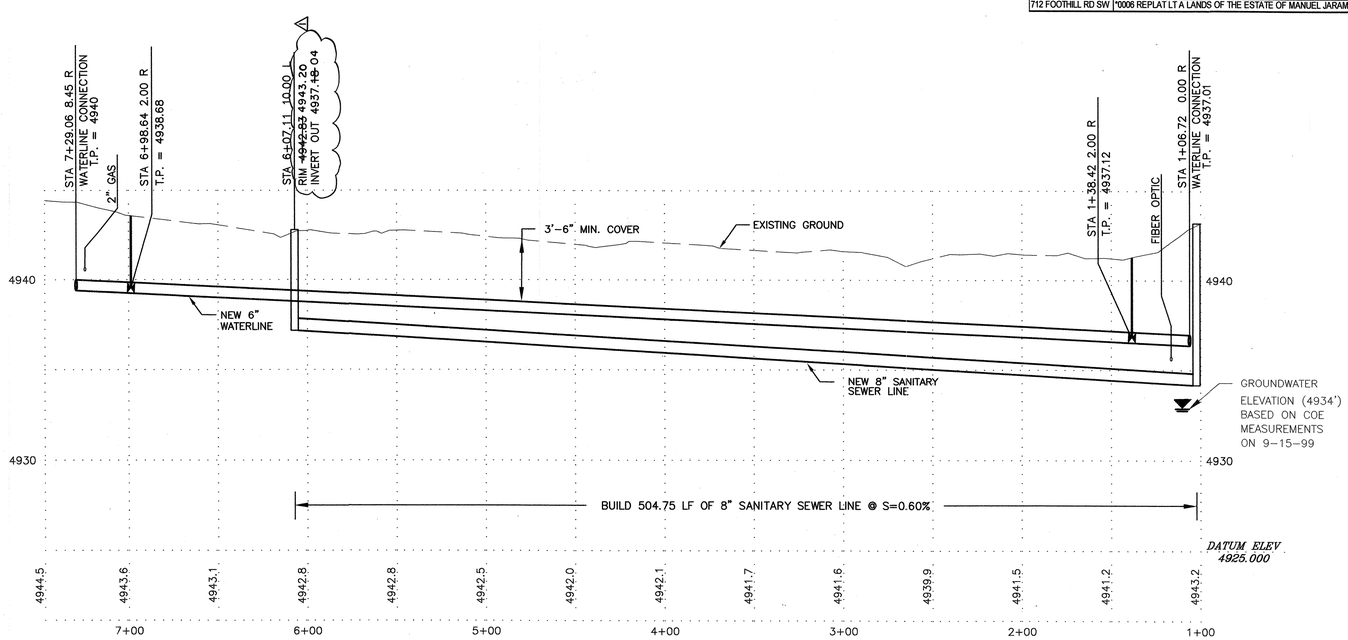
1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.



SECTION A – A

NTS: PUBLIC EASEMENT VARIES

8" SANITARY SEWER/WATER SERVICES						
ADDRESS	LEGAL DESCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
700 FOOTHILL RD SW	LT 3-B PLAT OF LANDS OF THE ESTATE OF MANUEL JARAMILLO SR	6+17 10.00 L	4937.77	4937.92	15.00	
702 FOOTHILL RD SW	MAP 42 TR 43 B	6+12 10.00 L	4937.81	4937.91	10.00	
704 FOOTHILL SW	*0004 REPLAT LT A LAND OF THE ESTATE OF MANUEL JARAMILLO SR	4+69 10.00 L	4937.04	4937.17	13.00	4+20 2.07 R
708 FOOTHILL SW	*0005 REPL LT A LANDS OF THE ESTATE OF MANUEL JARAMILLO SR	4+33 10.00 L	4936.80	4936.94	14.00	3+49 1.93 R
716 FOOTHILL RD SW	*0002 LANDS OF THE ESTATES OF MANUEL JARAMILLO SR	3+34 10.14 L	4936.52	4936.61	9.00	3+49 2.02 R
720 FOOTHILL SW	*0001 LANDS OF THE ESTATES OF MANUEL JARAMILLO SR	2+82 10.00 L	4935.82	4935.92	10.00	2+82 2.00 R
712 FOOTHILL RD SW	*0006 REPLAT LT A LANDS OF THE ESTATE OF MANUEL JARAMILLO SR	2+54 10.00 L	4935.61	4935.76	15.00	2+82 2.01 R



AREA 356 – JARAMILLO ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	356	76,383.983	74,165.472	4944.362
AEC CP2	356	76,268.499	74,071.630	4944.996

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45-4A	74,722.348	71,839.254	5003.016

1– ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2– COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED by ALB.SURVEYING CO. DATE 12/05
ACCEPTANCE BY BCPW DATE 6/05
FIELD VERIFICATION BY BCPW DATE 6/05
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14894
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

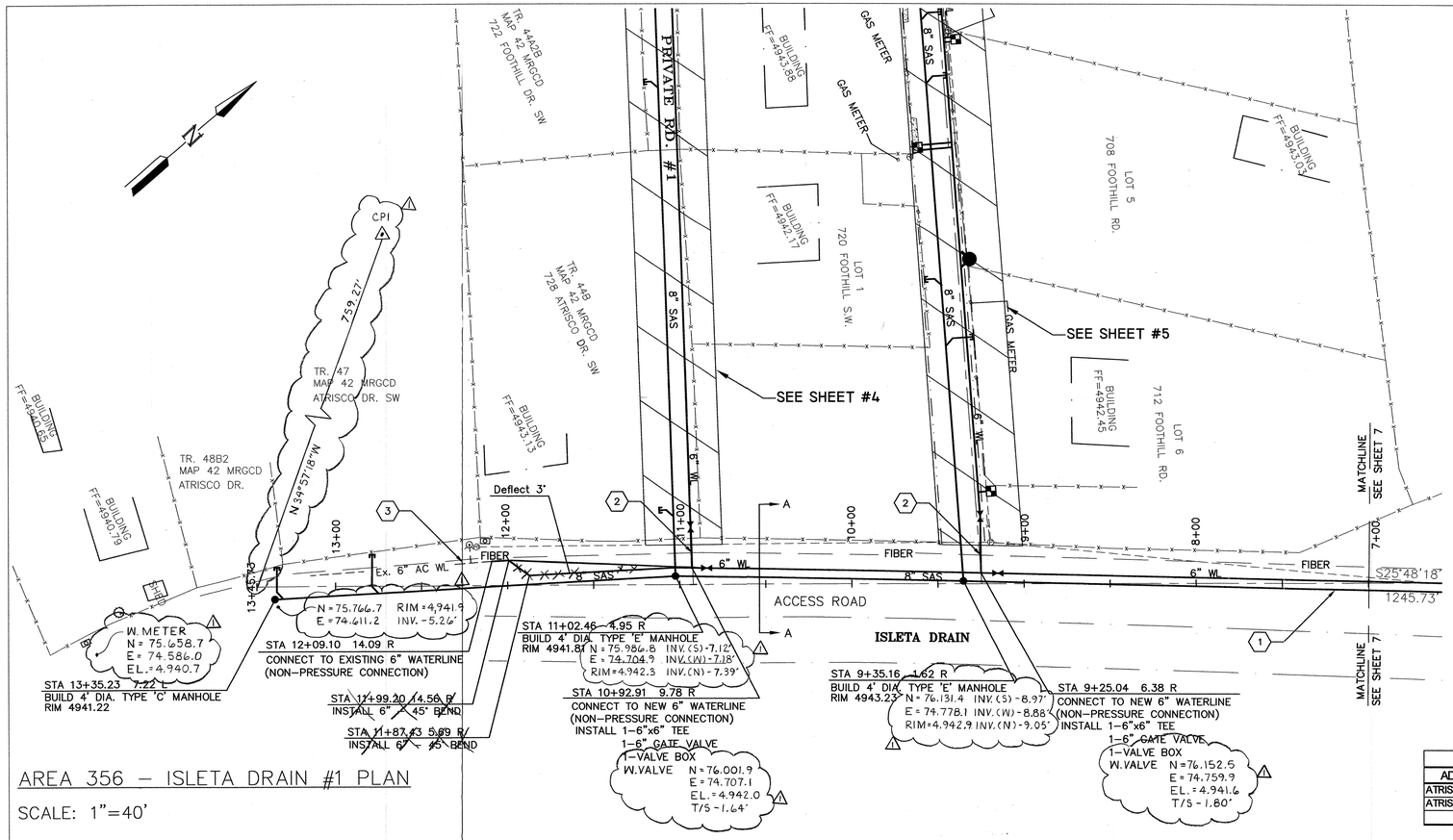
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 356– JARAMILLO ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. K-12, L11 & L12
Sheet 5 Of 25



AREA 356 – ISLETA DRAIN #1 PLAN

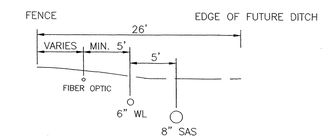
SCALE: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVE 151 IN ISLETA DRAIN AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

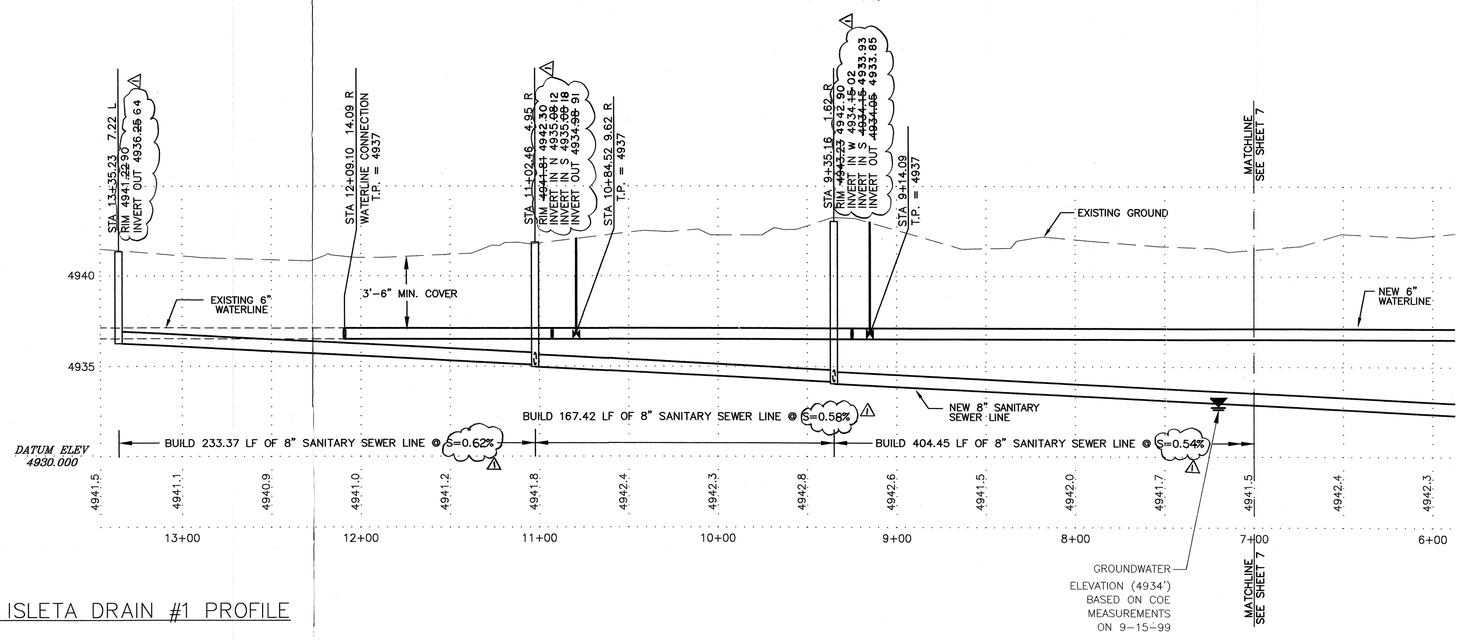
1. SEWER PIPE FROM STA 7+00 TO STA 13+35.49 SHALL BE PRESSURE RATED (125 psi) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.
2. MUST CALL AT&T IF WITHIN 2' OF FIBER OPTIC (AMOS WILSON 362-2743).
3. APPROXIMATE WATERLINE LOCATION (REPEAT OF GEN. NOTE #4).



SECTION A – A

NTS: PUBLIC EASEMENT VARIES

4" SANITARY SEWER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
ATRISCO DR. SW	TR. 48B2 MAP 42 MRGCD	13+22 2.23 L	4936.91	4937.21	18.0'	
ATRISCO DR. SW	TR. 47 MAP 42 MRGCD	12+62 0.92 R	4936.62	4936.92	22.0'	



AREA 356 – ISLETA DRAIN #1 PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	356	76,383.983	74,165.472	4944.362
AEC CP2	356	76,268.499	74,071.630	4944.996

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO. DATE 12/05
ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO 14894 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

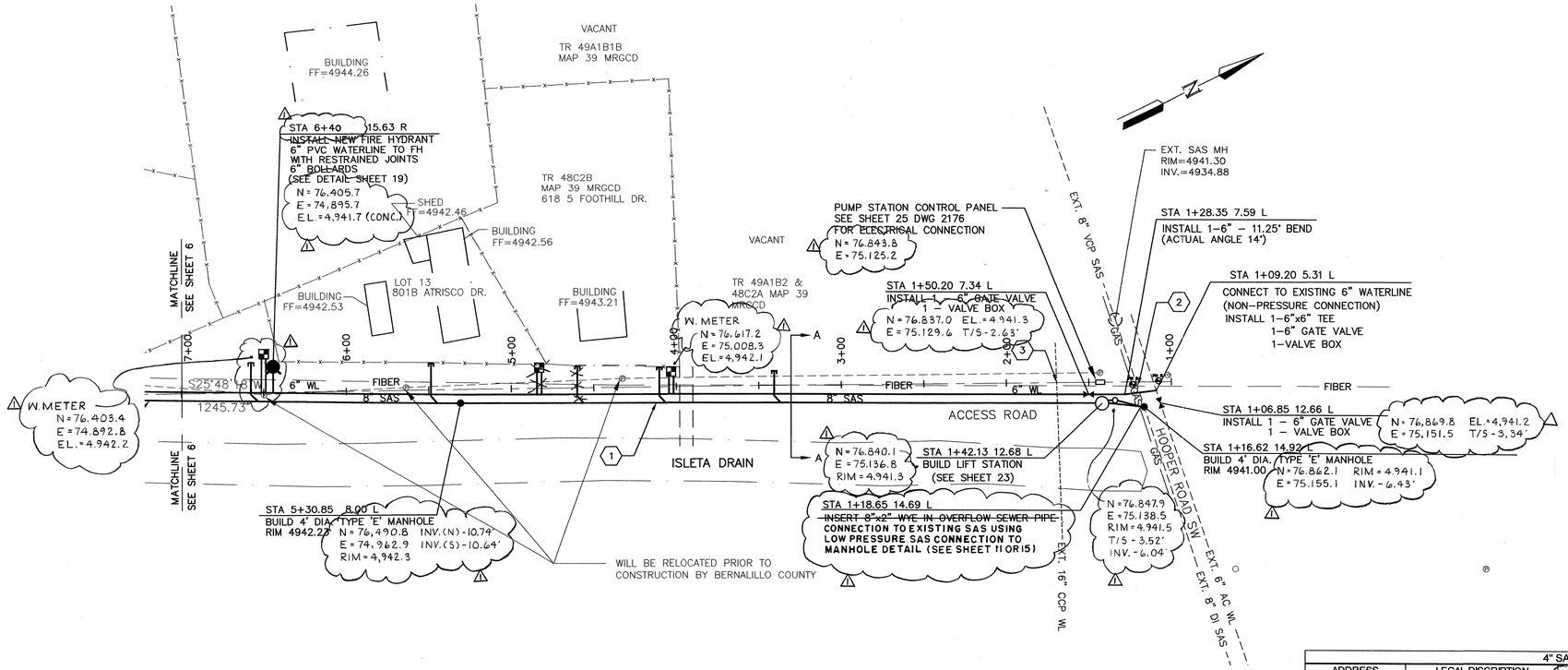
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 356 – ISLETA DRAIN #1

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. K-12, L11 & L12
Sheet 6 Of 25



AREA 356 – ISLETA DRAIN #2 PLAN

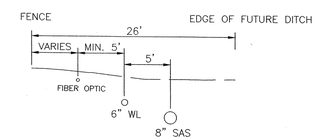
SCALE: 1"=40'

WATER SHUT–OFF PLAN

1. THE WATER SYSTEMS DIVISION (857–8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST, VALVE 151 IN ISLETA DRAIN, VALVE 874 IN HOOPER, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. SEWER PIPE FROM STA 7+00 TO STA 1+42.13 SHALL BE PRESSURE RATED (125 psi) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.
2. APPROXIMATE LOCATION WHERE EXISTING 8" SAS CHANGES FROM VCP TO DI.
3. APPROXIMATE WATERLINE LOCATION (REPEAT OF GEN. NOTE #4).



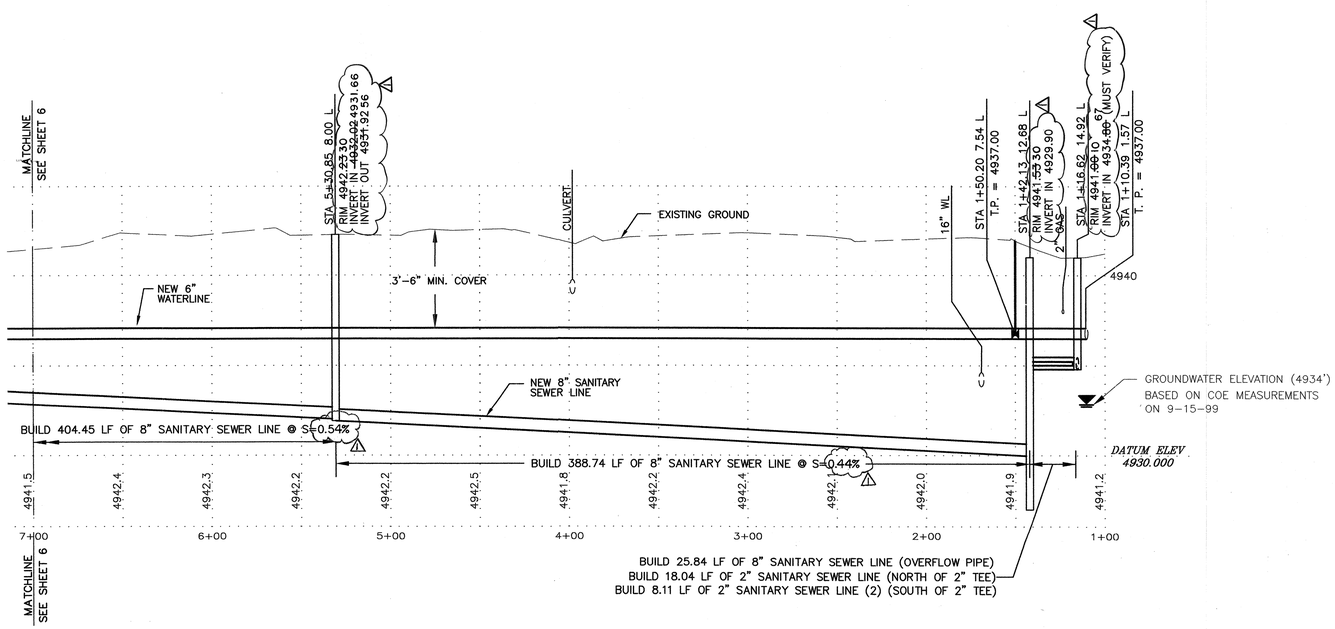
SECTION A – A

NTS: PUBLIC EASEMENT VARIES

4" SANITARY SEWER / WATER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
801 B ATRISCO DR SW	013 ROBERT I GRIEGO ADDN NO 2A	5+53 2.67 L	4932.76	4933.00	24.00	6+34 1.06 L
618 5 FOOTHILL RD SW	TR48C2B MRGCD MAP 39	4+07 8.85 L	4932.19	4932.41	22.00	3+93 1.41 L
VACANT	TR49A1B1B MRGCD MAP 39	6+52 9.42 L	4931.97	4932.18	21.00	3+93
VACANT	TR. 49A1B2 & 48C2A	3+02 10.21 L	4931.19	4931.36	17.00	6+34

AREA 356 – ISLETA DRAIN #2 PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'



CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	356	76,383.983	74,165.472	4944.362
AEC CP2	356	76,268.499	74,071.630	4944.996

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45–4A	74,722.348	71,839.254	5003.016

1– ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2– COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO DATE 12/05
ASBUILT ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45–4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14894
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

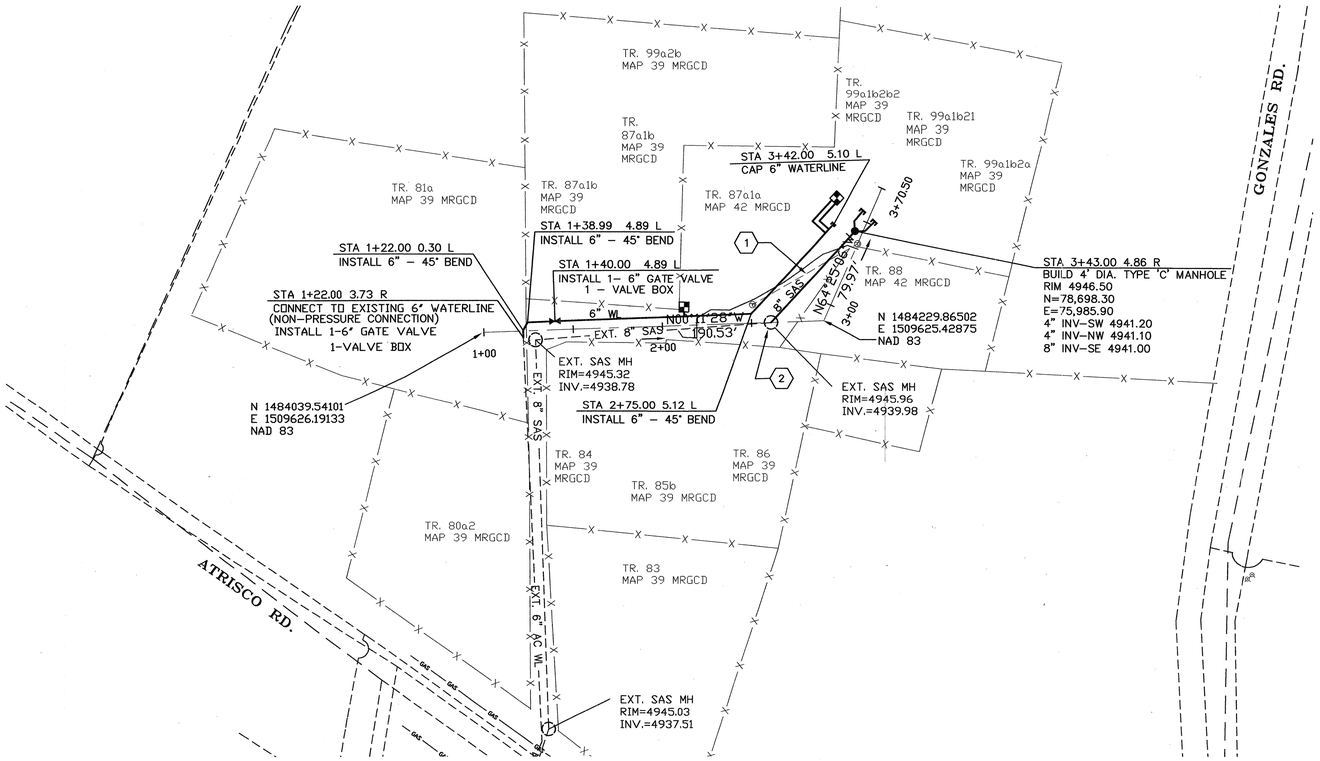
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 356 – ISLETA DRAIN # 2

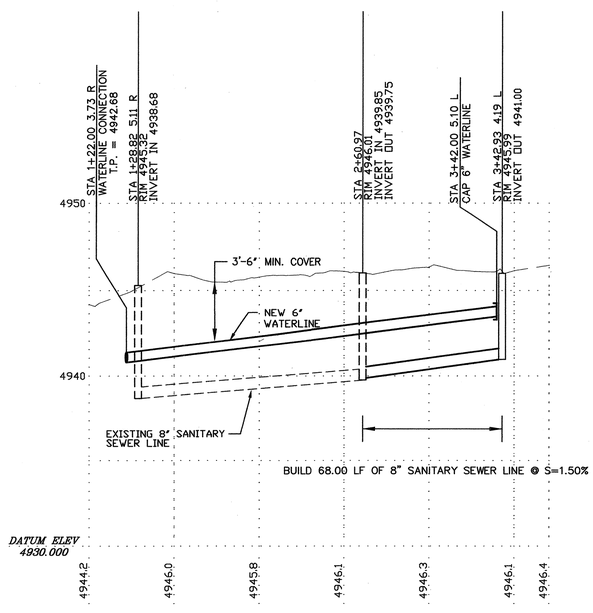
Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. K–12, L11 & L12
Sheet 7 Of 25



AREA 364 – PRIVATE ROAD PLAN

SCALE: 1"=40'



AREA 364 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

WATER SHUT–OFF PLAN

1. THE WATER SYSTEMS DIVISION (857–8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVE 682 in ATRISCO AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. INSTALL NEW SERVICE LINES AND ABANDON EXISTING SERVICE LINES.
2. ABANDON MANHOLE IN PLACE PER STANDARD SPECIFICATION SECTION 920.6. ABANDONMENT SHALL TAKE PLACE AFTER EXISTING SERVICES ARE TRANSFERRED TO NEW SEWER LINE. ABANDON 8" SAS FROM NEW MANHOLE TO EXISTING MANHOLE.

4" SANITARY SEWER / WATER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
415 ATRISCO DR. SW	TRS 99a1b2b2 & 99a1b2b1	3+43.00 4.86 R	4941.20	4941.50	19.0'	3+42.00 5.10 L
415 ATRISCO DR. SW	TRS 99a1b2a MRGCD Map #39	3+43.00 4.86 R	4941.10	4941.40	20.0'	3+42.00 5.10 L

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO. DATE 12/05
INSPECTOR'S NOTICE CHANGES BY BCPW DATE 5/06
FIELD VERIFICATION BY BCPW DATE 5/06
DRAWING CORRECTED BY BCPW DATE 9/06
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
SURVEYER TO CALL ENGINEER
ALL VERTICAL DATA IN NGVD 29

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
	9/06	AS BUILT	

REVISIONS

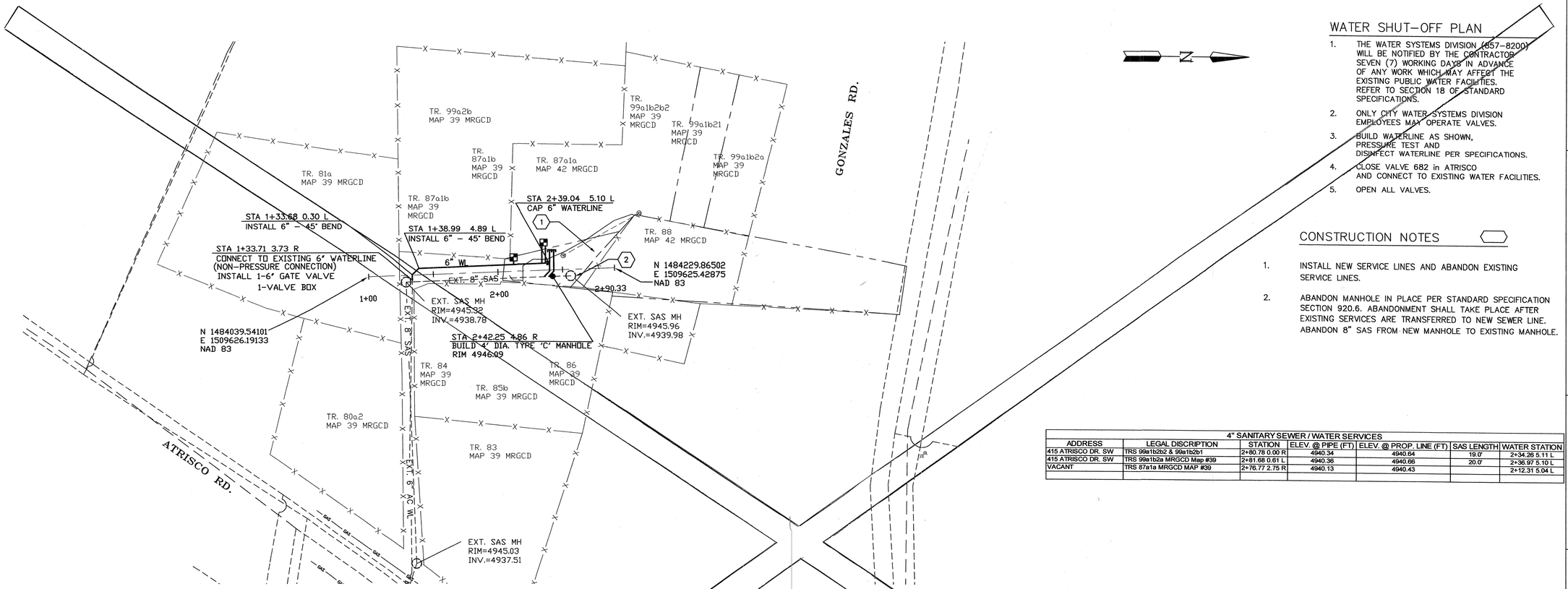
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 364 – PRIVATE ROAD

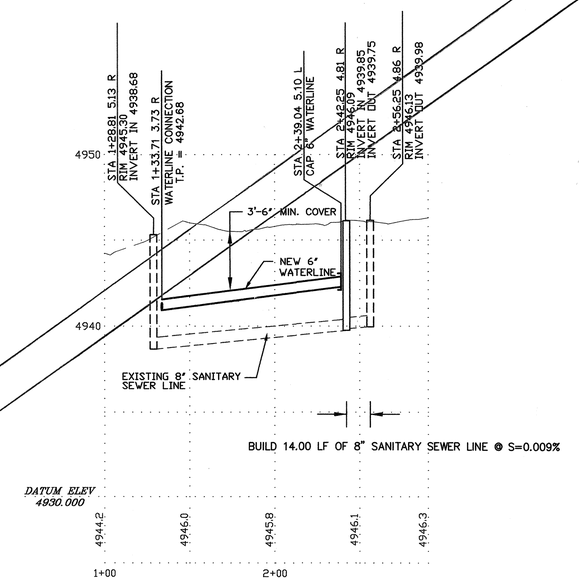
Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. K–12
Sheet 8 Of 25



AREA 364 – PRIVATE ROAD PLAN

SCALE: 1"=40'



AREA 364 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

REPLACE SEE NEXT SH.

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVE 682 in ATRISCO AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. INSTALL NEW SERVICE LINES AND ABANDON EXISTING SERVICE LINES.
2. ABANDON MANHOLE IN PLACE PER STANDARD SPECIFICATION SECTION 920.6. ABANDONMENT SHALL TAKE PLACE AFTER EXISTING SERVICES ARE TRANSFERRED TO NEW SEWER LINE. ABANDON 8" SAS FROM NEW MANHOLE TO EXISTING MANHOLE.

4" SANITARY SEWER / WATER SERVICES

ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
415 ATRISCO DR. SW	TRS 99a1b2b2 & 99a1b2b1	2+80.78 0.00 R	4940.34	4940.64	19.0'	2+34.26 5.11 L
415 ATRISCO DR. SW	TRS 99a1b2a MRGCD Map #39	2+81.68 0.61 L	4940.36	4940.66	20.0'	2+36.97 5.10 L
VACANT	TRS 87a1a MRGCD MAP #39	2+76.77 2.75 R	4940.13	4940.43		2+12.31 5.04 L

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
WORK INSPECTED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
SURVEYER TO CALL ENGINEER

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY

REVISIONS

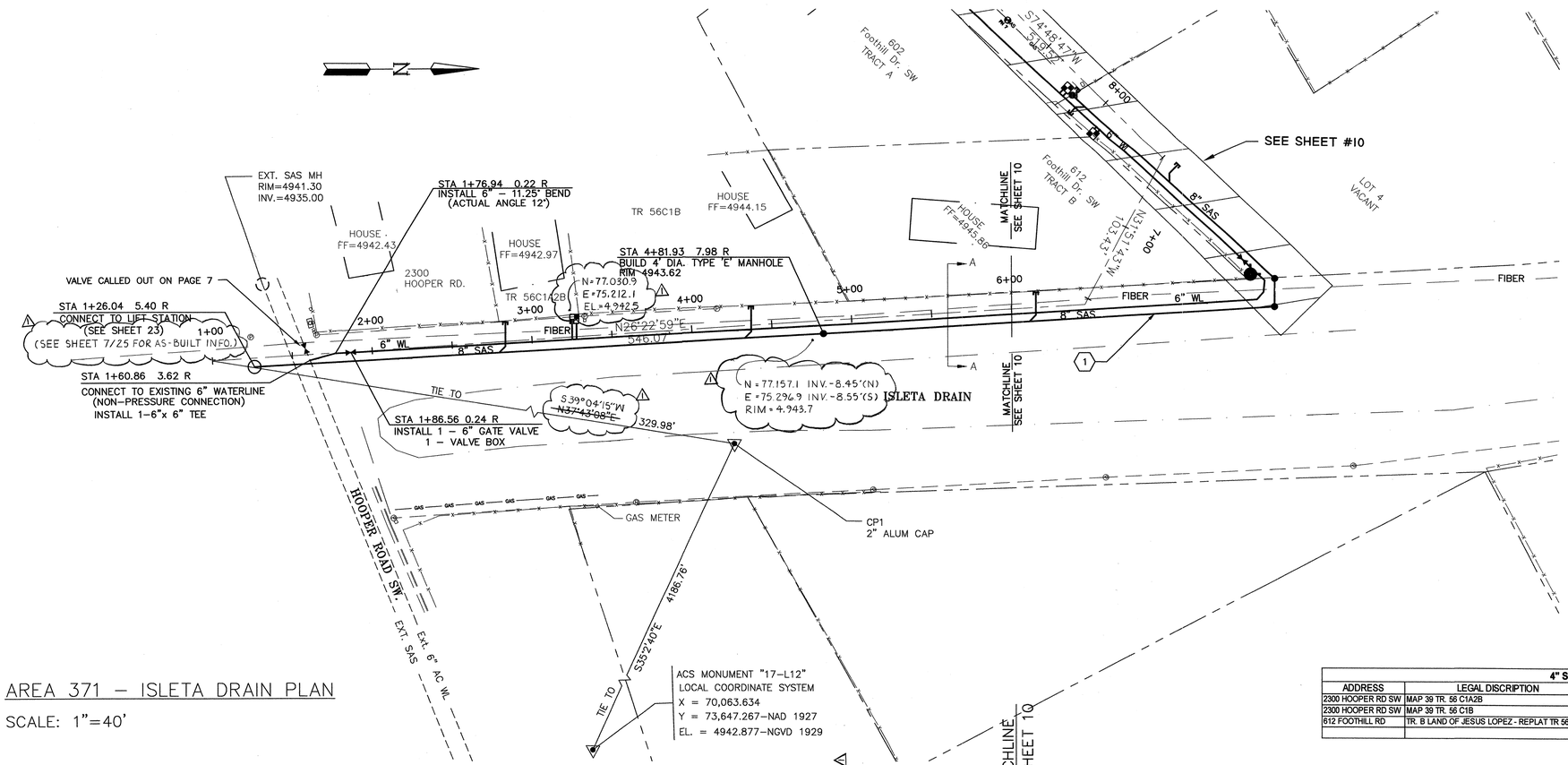
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 364 – PRIVATE ROAD

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. K-12
Sheet 8 Of 25



AREA 371 – ISLETA DRAIN PLAN

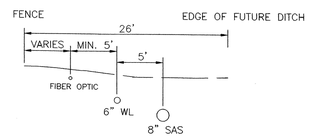
SCALE: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857–8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST, VALVE 874 IN HOOPER, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

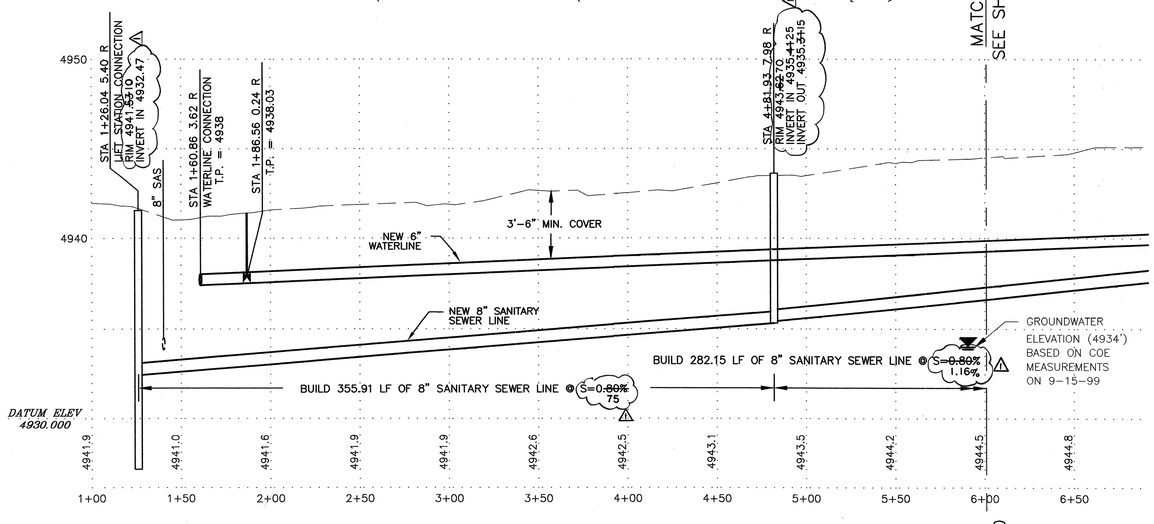
1. SEWER PIPE FROM STA 1+26.04 TO STA 6+00 SHALL BE PRESSURE RATED (125 psi) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.



SECTION A – A

NTS: PUBLIC EASEMENT VARIES

4" SANITARY SEWER / WATER SERVICES							
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION	
2300 HOOPER RD SW	MAP 39 TR. 56 C1A2B	2+82 6.51 L	4936.57	4936.87	18.00	3+25 1.52 R	
2300 HOOPER RD SW	MAP 39 TR. 56 C1B	4+87 5.25 L	4937.46	4937.76	19.00	3+25 1.54 R	
612 FOOTHILL RD	TR. B LAND OF JESUS LOPEZ - REPLAT TR 56-C2	5+90 7.16 L	4938.43	4938.73	18.00	9+45 14.46 L	



AREA 371 – ISETA DRAIN PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	371	77,074.994	75,327.407	4943.214
AEC CP2	371	77,643.306	75,597.407	4944.903

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
17–L12	73,647.267	77,731.490	4942.877

1– ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2– COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION 1
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALBSURVEYING CO. DATE 12/05
ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
X – 371056.24
Y – 1479124.60

BENCH MARKS
ASC 3 1/4" ALUMINUM CAP STAMPED "NM 17 –L12" THE CAP IS SET FLUSH WITH THE CURB IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 2.4 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/07	AS BUILT	

REVISIONS

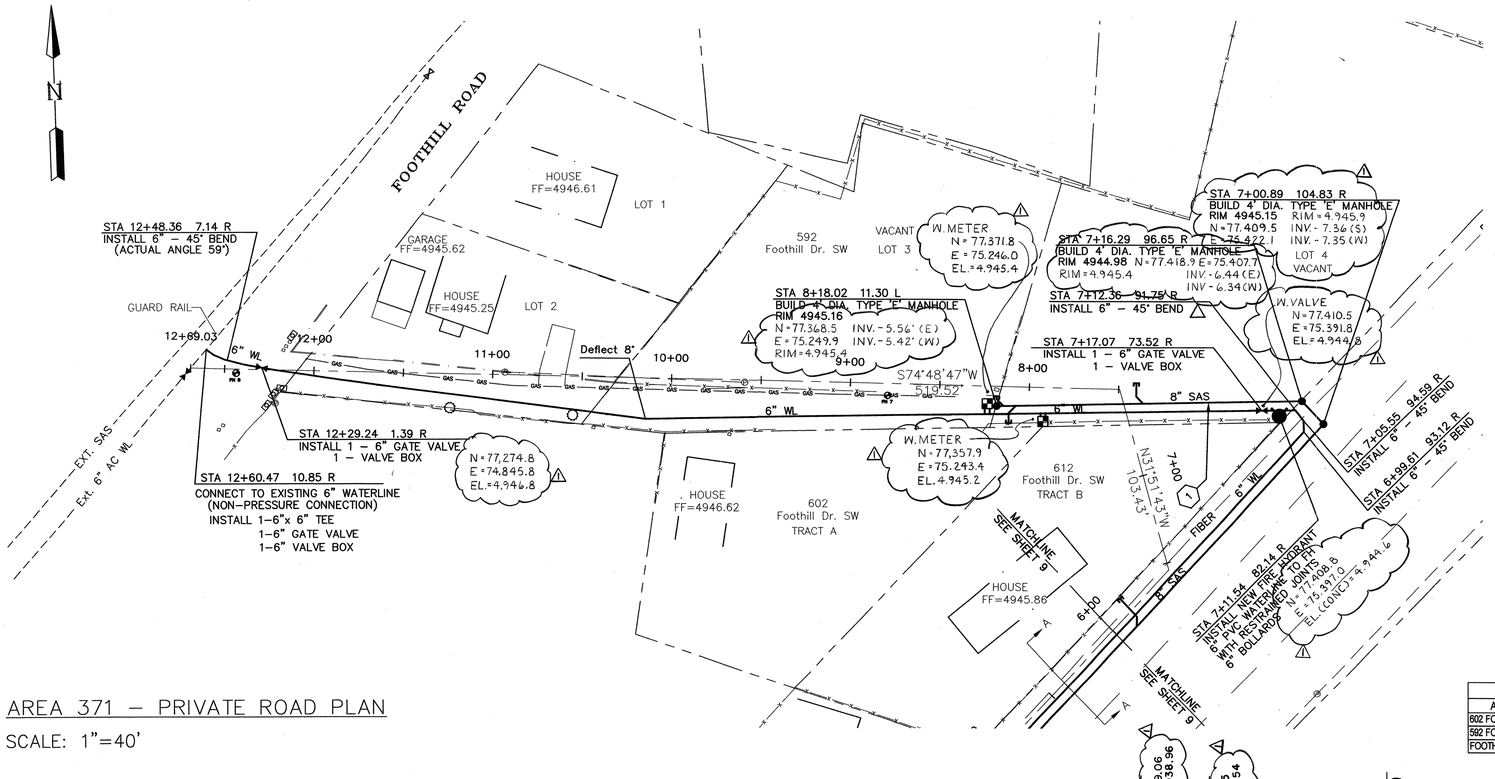
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 371 – ISLETA DRAIN

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. K–12
Sheet 9 Of 25



AREA 371 – PRIVATE ROAD PLAN

SCALE: 1"=40'

WATER SHUT–OFF PLAN

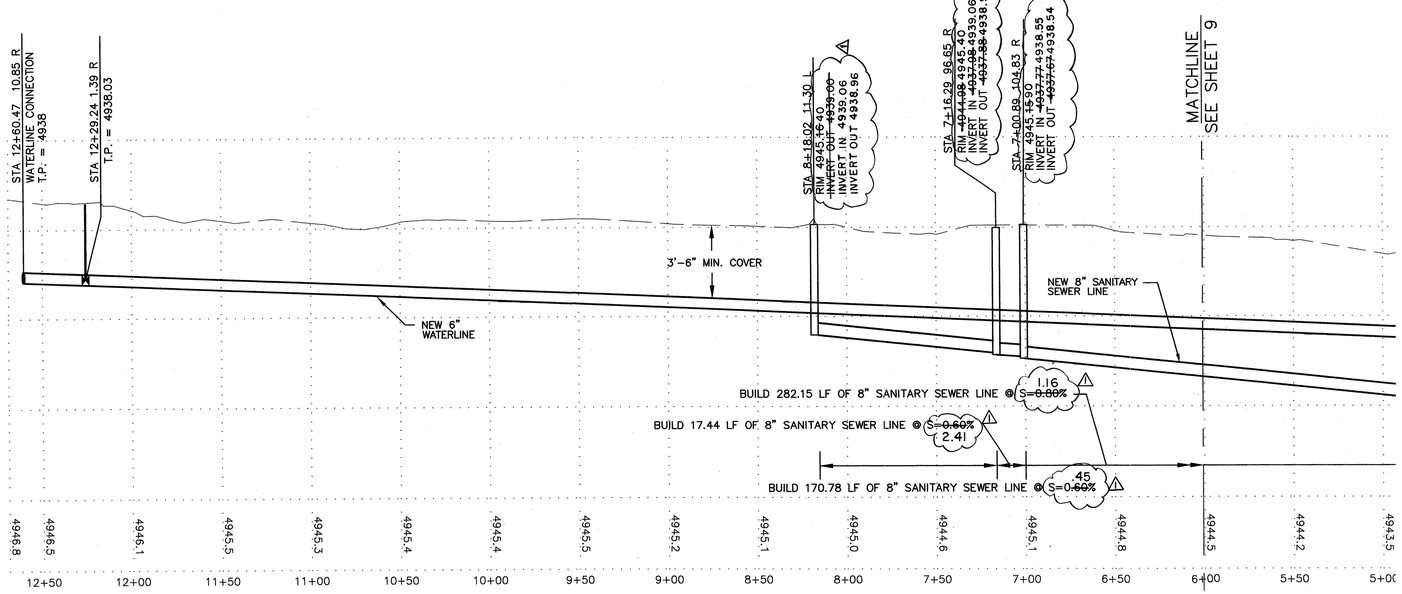
1. THE WATER SYSTEMS DIVISION (857–8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. SEWER PIPE FROM STA 6+00 TO STA 8+18.02 SHALL BE PRESSURE RATED (125 psi) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.

4" SANITARY SEWER / WATER SERVICES

ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
602 FOOTHILL DR SW	TR. A LAND OF JESUS LOPEZ - REPLAT TR 56-C-2	8+18 10.85 R	4942.97	4943.27	15.0'	8+38 14.55 L
592 FOOTHILL RD	LT 3 LAND OF FRANK BACA REPLAT OF TR 56-D-1	8+24 11.14 L	4944.15	4944.45	12.0'	8+45 15.81 L
FOOTHILL RD	LT 4 LAND OF FRANK BACA REPLAT OF TR 56-D-1	7+56 10.58 R	4944.62	4944.92	12.0'	8+38 15.81 L



AREA 371 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	371	77,074.994	75,327.407	4943.214
AEC CP2	371	77,643.306	75,597.407	4944.903

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
17–L12	73,647.267	77,731.490	4942.877

1– ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2– COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALBS SURVEYING CO DATE 12/5
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ASC 3 1/4" ALUMINUM CAP STAMPED "NM 17 –L12" THE CAP IS SET FLUSH WITH THE CURB IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 2.4 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 371056.24
Y – 1479124.60

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

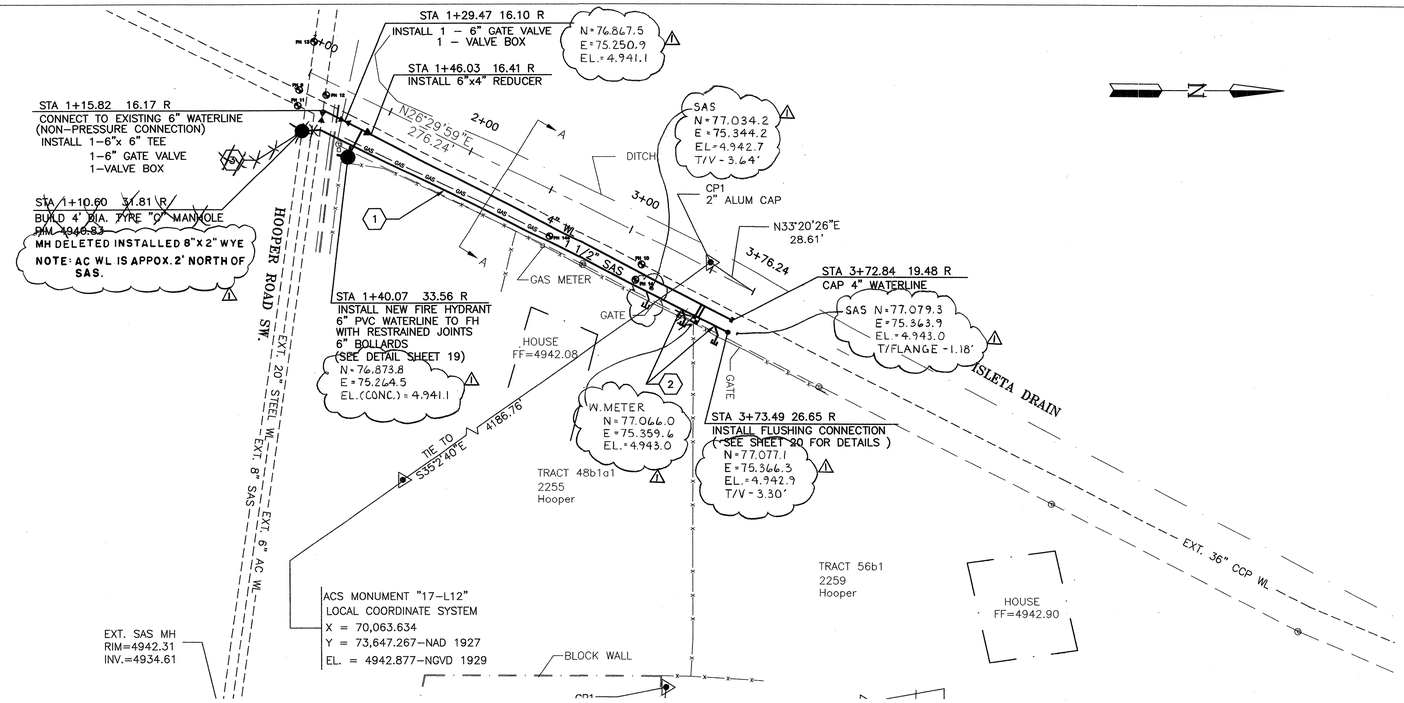
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 371 – PRIVATE RD

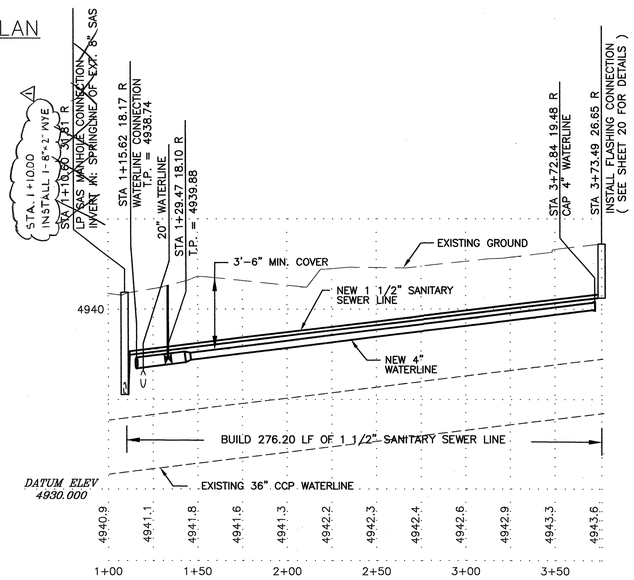
Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. K–12
Sheet 10 Of 25



AREA 373 – ISLETA DRAIN PLAN

SCALE: 1"=40'



AREA 373 – ISLETA DRAIN PROFILE

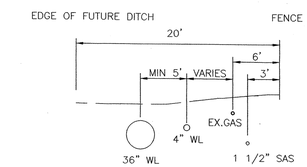
SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

WATER SHUT–OFF PLAN

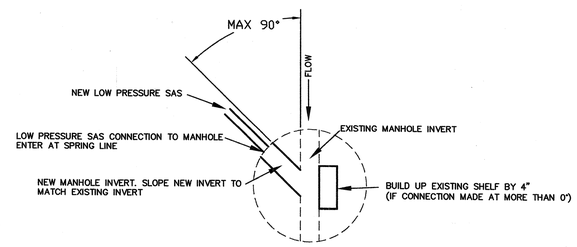
1. THE WATER SYSTEMS DIVISION (857–8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 432 AND 751 IN FOOTHILL, VALVE 752 IN FOOTHILL WEST, VALVE 874 IN HOOPER, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. INSTALL 1½" LOW PRESSURE SEWER LINE.
2. LOW PRESSURE SEWER LATERAL (SEE SHEET 20 FOR DETAIL).
3. MANHOLE CONNECTION (SEE DETAIL BELOW).



SECTION A – A
NTS: PUBLIC EASEMENT VARIES



LOW PRESSURE SAS CONNECTION TO MANHOLE

SANITARY SEWER SERVICES						
WATER STA	ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH
3+62	2255 HOPPER SW	TR 48B1A MAP 39 MRGCD	3+62.39 8.30 R	4937.00	4937.30	30.0'
3+62	2259 HOPPER SW	TR 55B1 MAP 39 MRGCD	3+62.71 0.00 R			30.0'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	373	77,074.994	75,327.407	4943.214
AEC CP2	373	77,643.306	75,597.407	4944.903

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	~~EASTING~~	ELEVATION
17–L12	73,647.267	~~70,063.634~~ 77,731.490	4942.877

1– ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2– COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB.SURVEYING CO. DATE 12/05
INSPECTOR ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.
X – 3710056.24
Y – 1479124.60

BENCH MARKS
ASC 3 1/4" ALUMINUM CAP STAMPED "NM 17 –L12" THE CAP IS SET FLUSH WITH THE CURB IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 2.4 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:

SURVEY INFORMATION
FIELD NOTES
NO. | DATE | BY

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14894
REGISTERED PROFESSIONAL ENGINEER
6/12/06

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 373 – ISLETA DRAIN

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. L–11
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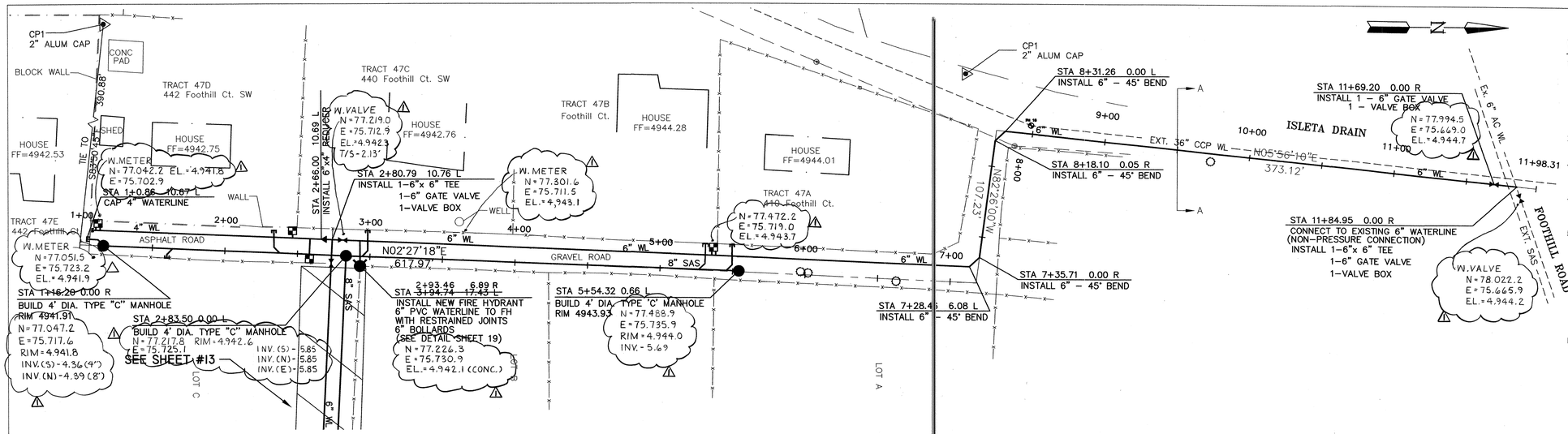
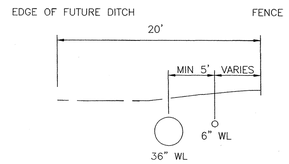


WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 728, 729 AND 751 IN FOOTHILL AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

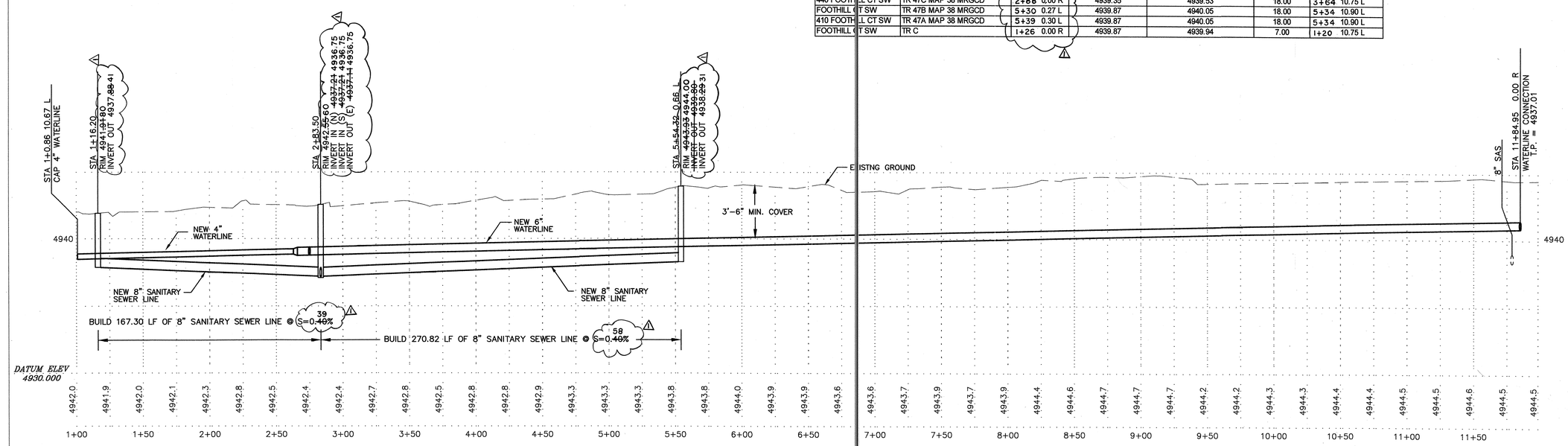


SECTION A - A
NTS: PUBLIC EASEMENT VARIES

AREA 373 - PRIVATE ROAD #1 PLAN

SCALE: 1"=40'

4" SANITARY SEWER / WATERSERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
442 FOOTHILL CT SW	TR 47E MAP 38 MTGCD	1+08 0.00 R	4938.44	4938.56	12.00	1+06 10.56 L
FOOTHILL CT SW	TR 47D MAP 38 MRGCD	2+21 0.00 R	4938.75	4938.91	16.00	1+06 10.74 L
440 FOOTHILL CT SW	TR 47C MAP 38 MRGCD	2+88 0.00 R	4939.35	4939.53	18.00	3+64 10.75 L
FOOTHILL CT SW	TR 47B MAP 38 MRGCD	5+30 0.27 L	4939.87	4940.05	18.00	5+34 10.90 L
410 FOOTHILL CT SW	TR 47A MAP 38 MRGCD	5+39 0.30 L	4939.87	4940.05	18.00	5+34 10.90 L
FOOTHILL CT SW	TR C	1+26 0.00 R	4939.87	4939.94	7.00	1+20 10.75 L



AREA 373 - PRIVATE ROAD #1 PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	373	77,074.994	75,327.407	4943.214
AEC CP2	373	77,643.306	75,597.407	4944.903

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
17-L12	73,647.267	77,731.490	4942.877

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO DATE 12/05
ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ASC 3 1/4" ALUMINUM CAP STAMPED "NM 17 -L12" THE CAP IS SET FLUSH WITH THE CURB IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 2.4 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X - 371056.24
Y - 1479124.60

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 373 - PRIVATE ROAD #1

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L-11
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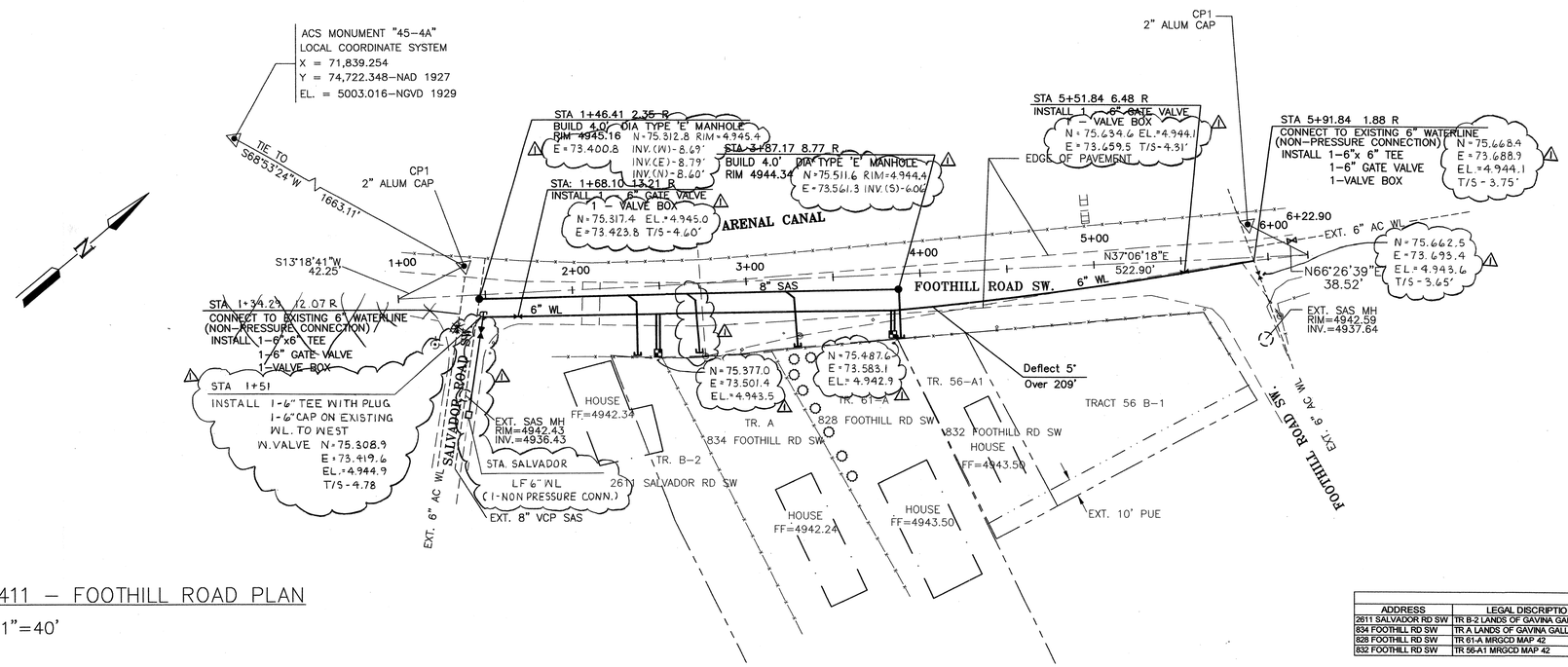


AREA 411 – FOOTHILL ROAD PLAN

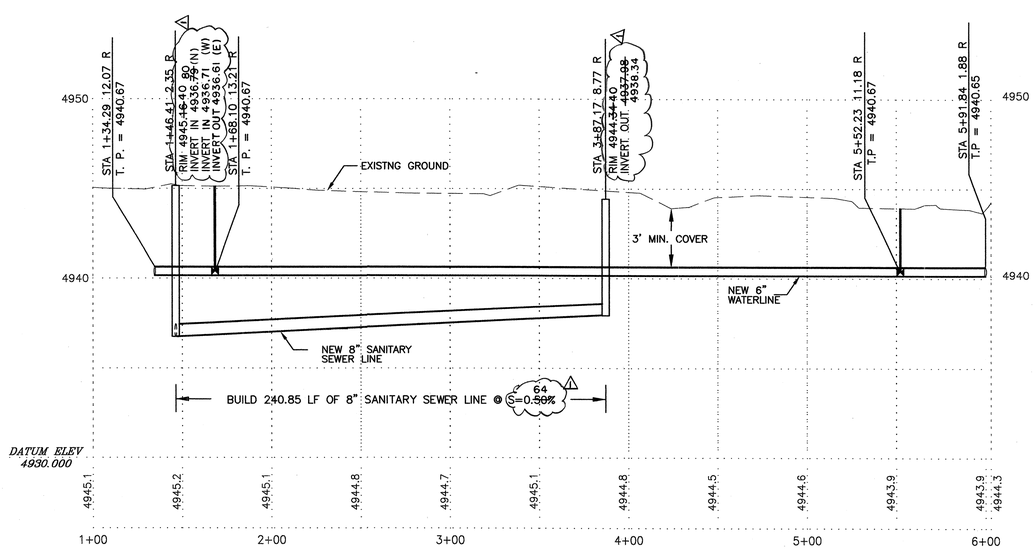
SCALE: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 481 AND 482 IN SALVADOR, VALVE 421 IN FOOTHILL WEST, VALVE 431 IN FOOTHILL WEST, AND VALVE 432 IN FOOTHILL AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

4" SANITARY SEWER / WATER SERVICES

ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
2611 SALVADOR RD SW	TR B-2 LANDS OF GAVINA GALLEGOS	2+35 4.54 R	4937.88	4938.09	21.50	2+52 15.99 R
834 FOOTHILL RD SW	TR A LANDS OF GAVINA GALLEGOS	2+72 5.56 L	4938.16	4938.37	21.00	2+52 15.99 R
828 FOOTHILL RD SW	TR 61-A MRGCD MAP 42	3+32 6.85 R	4938.33	4938.53	20.00	3+86 20.49 R
832 FOOTHILL RD SW	TR 56-A1 MRGCD MAP 42	3+76 8.27 L	4937.98	4938.13	15.00	3+86 20.49 R



AREA 411 – FOOTHILL ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)

POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	411	75,321.329	73,390.751	4945.891
AEC CP2	411	75,681.842	73,661.164	4944.927

MONUMENT DATA TABLE

CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45-4A	~~74,722.348~~ 73,647.267	~~71,839.254~~ 77,731.490	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO DATE 12/05
WORK ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
THE STATION MARK IS AN ACS 3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO 14694 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

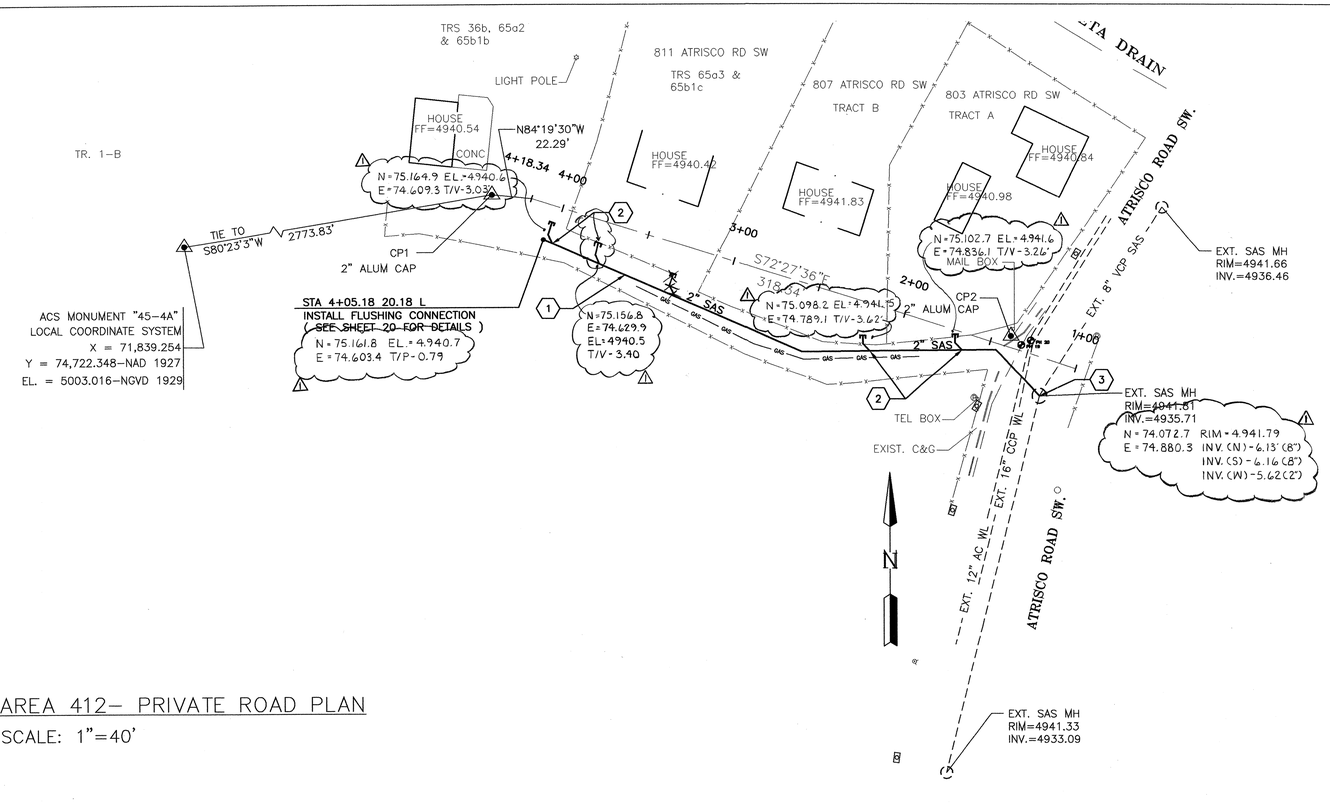
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 411 – FOOTHILL ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L-11
Sheet 14 Of 25

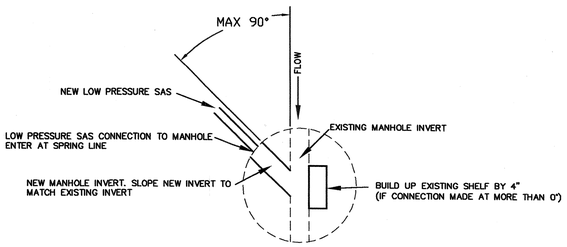


AREA 412– PRIVATE ROAD PLAN

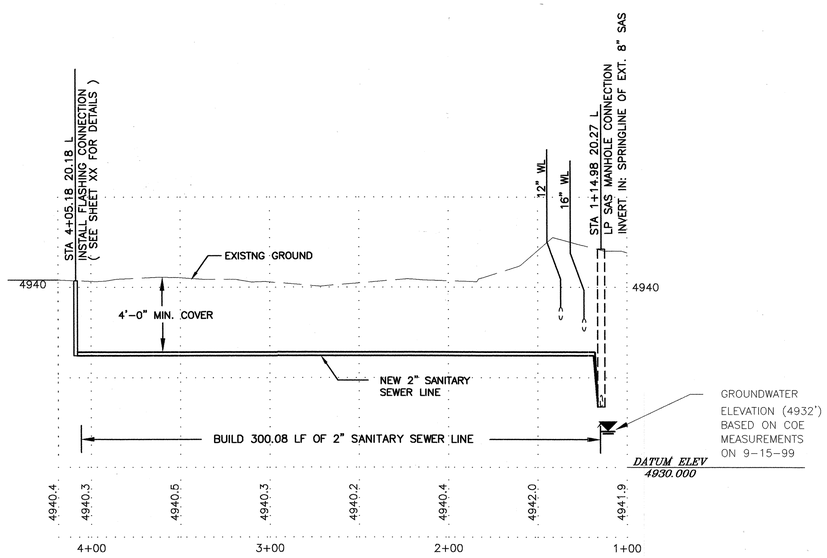
SCALE: 1"=40'

CONSTRUCTION NOTES

1. INSTALL 2" LOW PRESSURE SEWER LINE.
2. LOW PRESSURE SEWER LATERAL (SEE SHEET 20 FOR DETAIL).
3. MANHOLE CONNECTION (SEE DETAIL BELOW).



LOW PRESSURE SAS CONNECTION TO MANHOLE



AREA 412 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

4" SANITARY SEWER / WATER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
803 ATRISCO RD. SW	TR A LANDS OF	1+63.52 9.51 L	4936.50	4935.00	8.00	N/A
807 ATRISCO RD SW	TR B LANDS OF	2+12.48 25.63 L	4936.50	4935.00	8.00	N/A
811 ATRISCO RD SW	TR 65A3 & 65B1C MRGCD MAP 42	~~3+26.57 28.86 L~~	4936.50	4935.00	11.00	N/A
803 ATRISCO RD SW	TR 36B 65A2 & 65B1B MRGCD MAP 42	3+99.76 20.78 L	4936.50	4935.00	11.00	N/A
		3+71.66 24.05L				

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	412	75,185.686	74,574.108	4940.514
AEC CP2	412	75,105.493	74,863.663	4942.647

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
17-L12	73,647.267	77,731.490	4942.877
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NAVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB.SURVEYING CO DATE 12/05
ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO (14694) REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

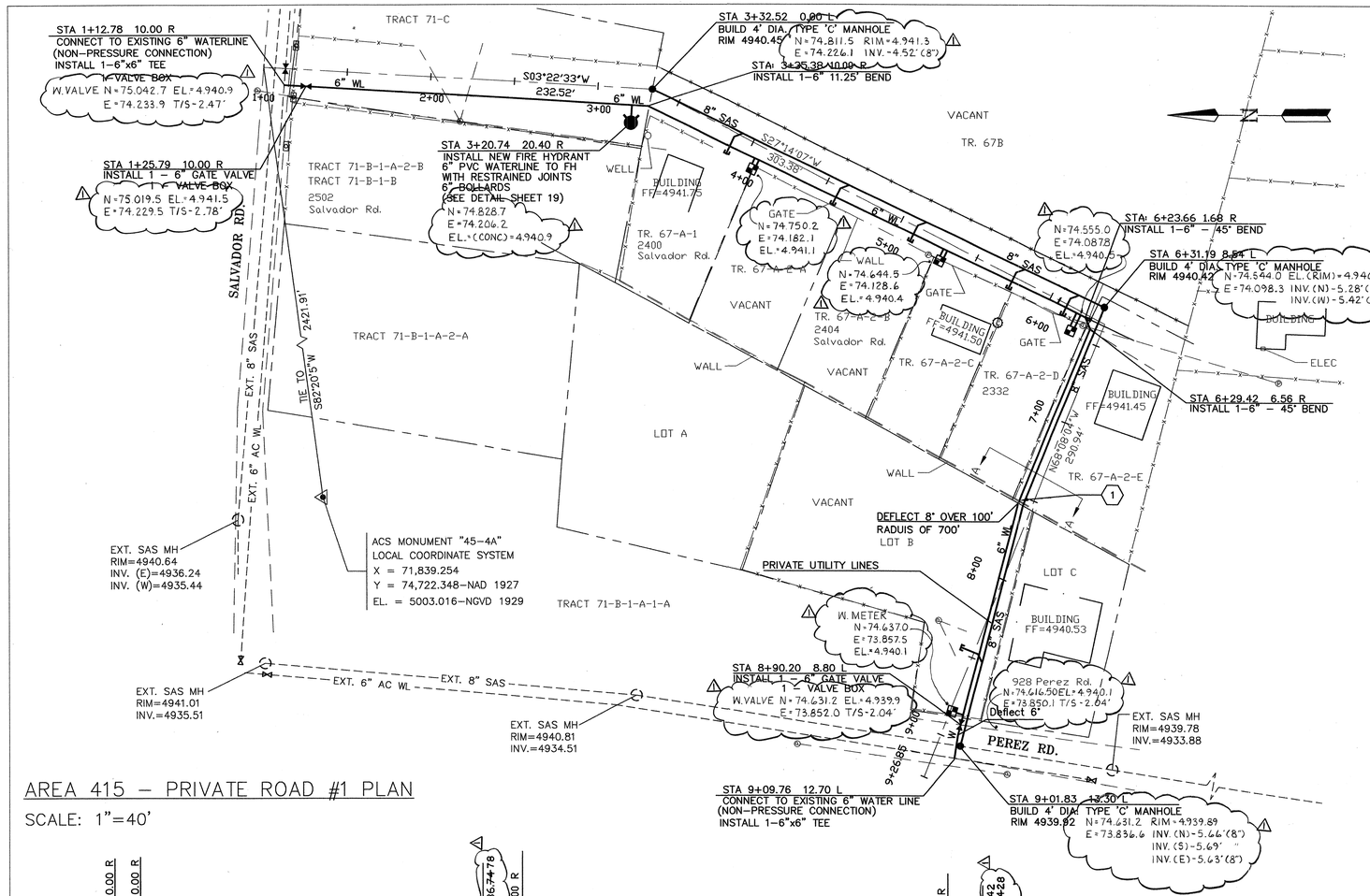
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 412 – PRIVATE ROAD

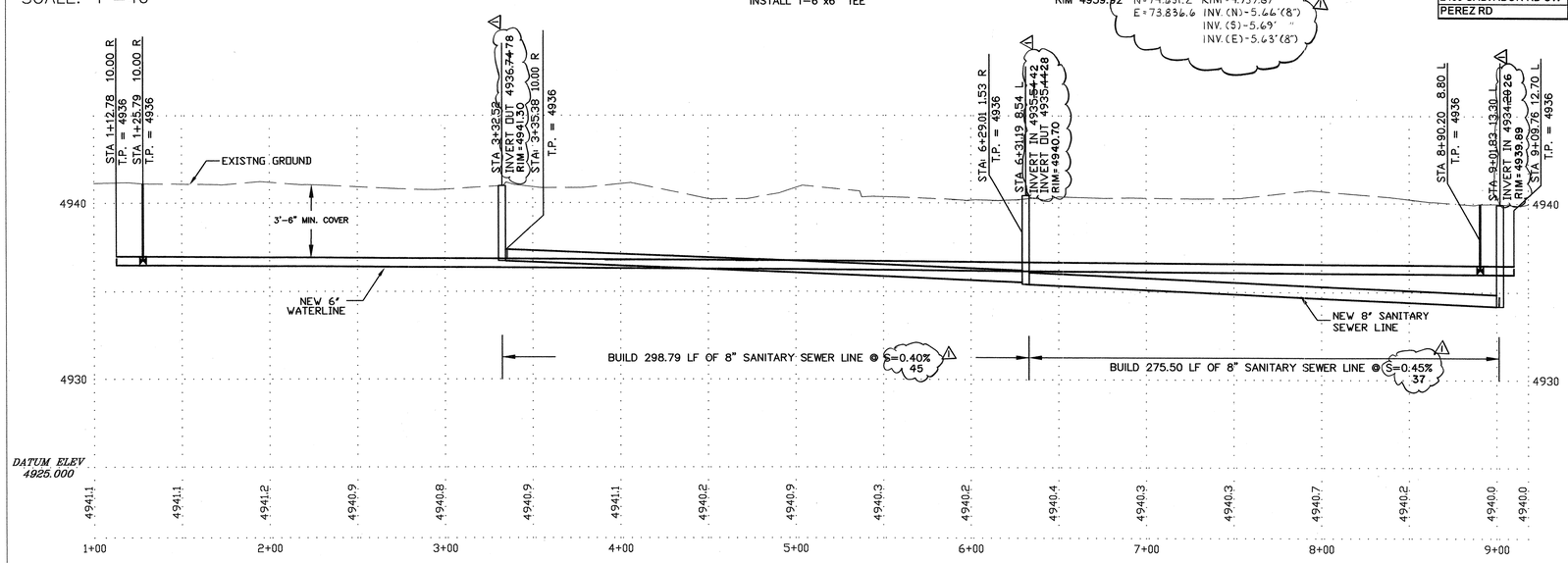
Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L12
Sheet 15 Of 25



AREA 415 – PRIVATE ROAD #1 PLAN

SCALE: 1"=40'



AREA 415 – PRIVATE ROAD #1 PROFILE

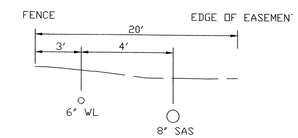
SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 532 IN PEREZ, 481, 482 & 152 SALVADOR AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

CONSTRUCTION NOTES

1. SEWER PIPE FROM STA 6+32.99 TO STA 9+01.22 SHALL BE PRESSURE RATED (125 psi) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.



SECTION A - A
NTS: PUBLIC EASEMENT VARIES

4" SANITARY SEWER / WATER SERVICES							
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
2400 SALVADOR SW C	MAP 42 TR 67 A1	3+42.39 1.71 L	4937.17	4937.30	13.00	4+14.23 7.97 R
2404 SALVADOR RD SW	MAP 42 TR 67 A2A	4+52.48 3.71 L	4936.88	4937.01	13.00	4+14 7.89 R
2404 SALVADOR RD SW	MAP 42 TR 67 A2B	4+89.77 5.18 L	4936.68	4936.81	13.00	5+32.84 4.38 R
2400 SALVADOR RD SW	MAP 42 TR 67 A2C	5+29.71 7.04 L	4936.42	4936.55	13.00	5+32.33 4.31 R
SALVADOR RD SW	MAP 42 TR 67B	6+01.83 7.70 L	4936.34	4936.47	13.00	6+05.39 2.21 R
SALVADOR RD SW	MAP 42 TR 67 A2D	5+92.57 8.06 L	4936.28	4936.41	13.00	6+29.78 1.85 R
2400 SALVADOR RD SW	MAP 42 TR 67 A2E	7+09.66 2.81 L	4936.11	4936.24	13.00	6+29.49 1.78 R
PEREZ RD	* B LANDS OF ONOFRE	8+11.34 6.57 L	4934.80	4934.93	13.00	8+87.15 8.04 L

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	415	75,046.844	74,251.427	4941.173
AEC CP2	415	75,067.316	73,913.862	4940.804

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO DATE 12/05
ACCEPTANCE INSPECTION BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X - 365169.46
Y - 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER
06/21/06

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

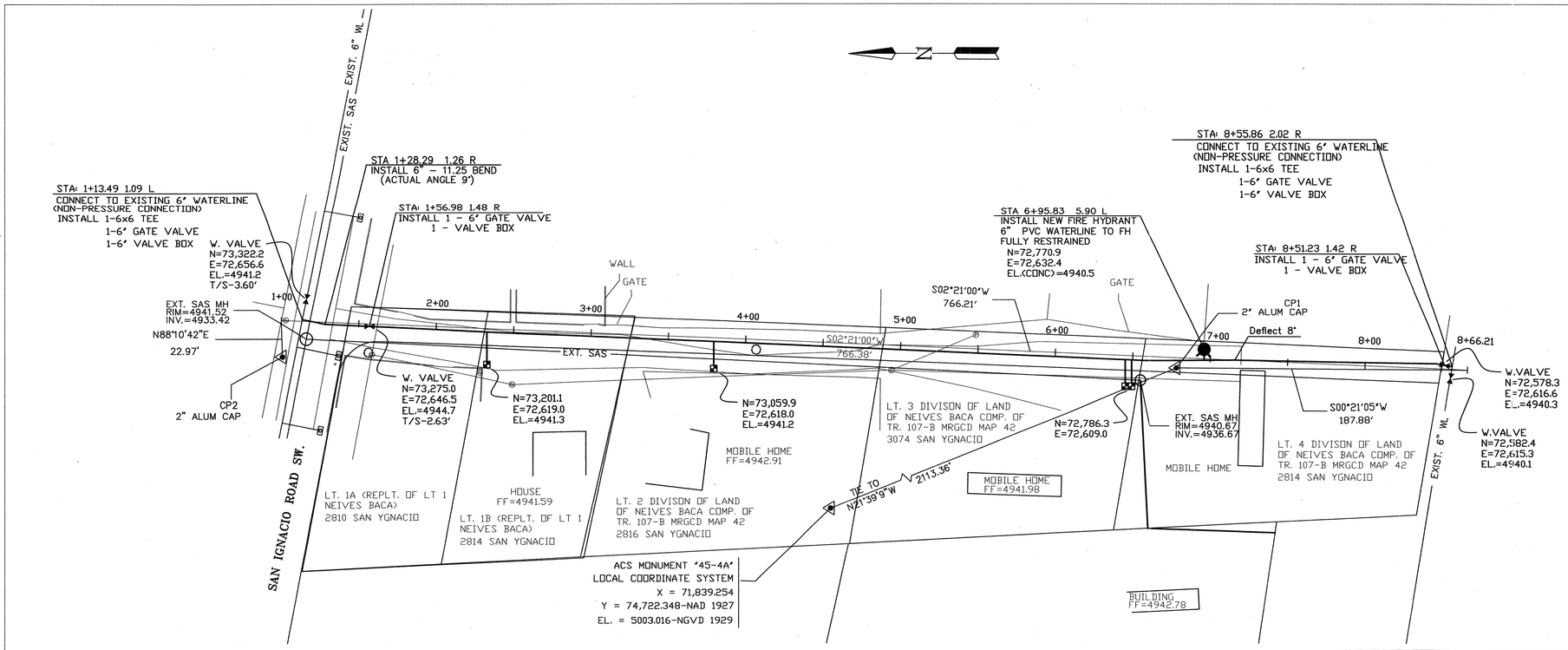
DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 415 – PRIVATE ROAD #1

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L-11 & 12
Sheet 16 Of 25



AREA 422 – PRIVATE ROAD PLAN

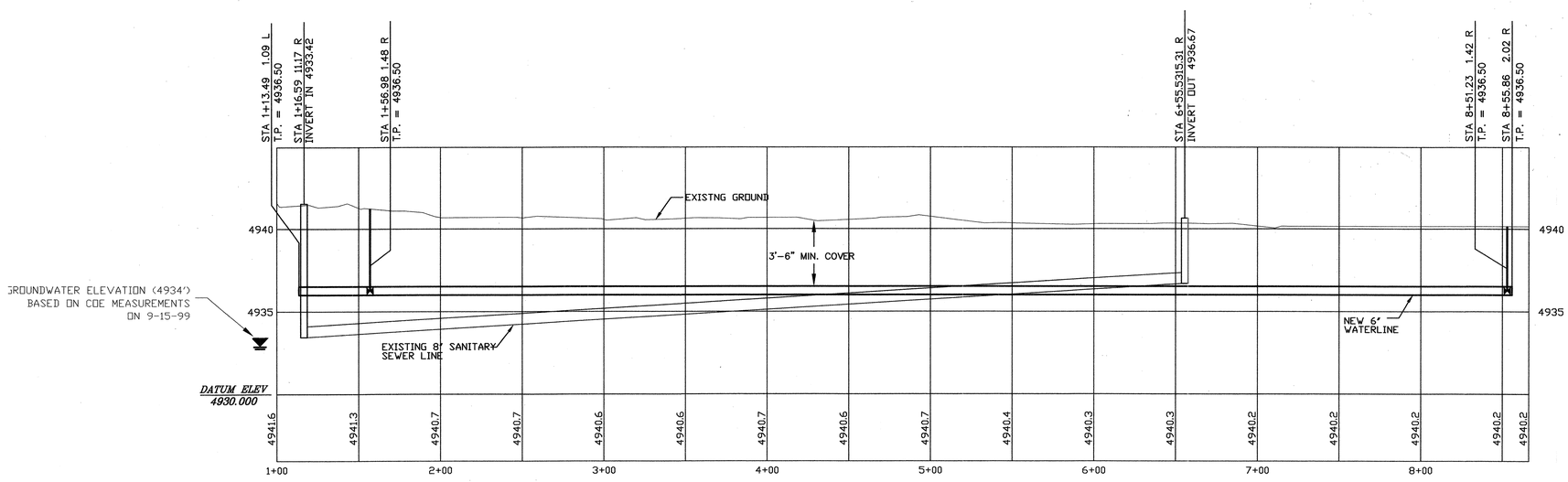
SCALE:
HORIZ: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 561 IN JUSTO, 951 AND 972 IN SAN YGNACIO, 1072 IN BENNY, 1062 IN JUANITA, 1011 IN FOOTHILL AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

WATER SERVICES

ADDRESS	LEGAL DISCRIPTION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	WATER STATION
2814 SAN YGNACIO SW	LT. 1B (REPLT. OF LT. 1 NERVES BACA)	4940.70	4941.00	2+32.80 2.08 R
2814 SAN YGNACIO SW	LT. 2 DIVISON OF LAND OF NEIVES BACA	4940.63	4940.64	3+79.47 2.32 R
3074 SAN YGNACIO SW	LT. 3 DIVISON OF LAND OF NEIVES BACA	4940.41	4940.66	6+45.17 2.65 R
2814 SAN YGNACIO SW	LT. 4 DIVISON OF LAND OF NEIVES BACA	4940.39	4940.66	6+49.34 2.63 R



AREA 422 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)

POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	422	72,619.034	72,758.113	4940.448
AEC CP2	422	72,626.341	73,335.065	4940.765

MONUMENT DATA TABLE

CITY MONUMENT	NORTHING	EASTING	ELEVATION
7-M1	70,469.374	70,536.426	4966.013
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB SURVEYING CO. DATE 12/05
INSPECTOR'S ACCEPTANCE BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
SURVEYER TO CALL ENGINEER

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14694
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

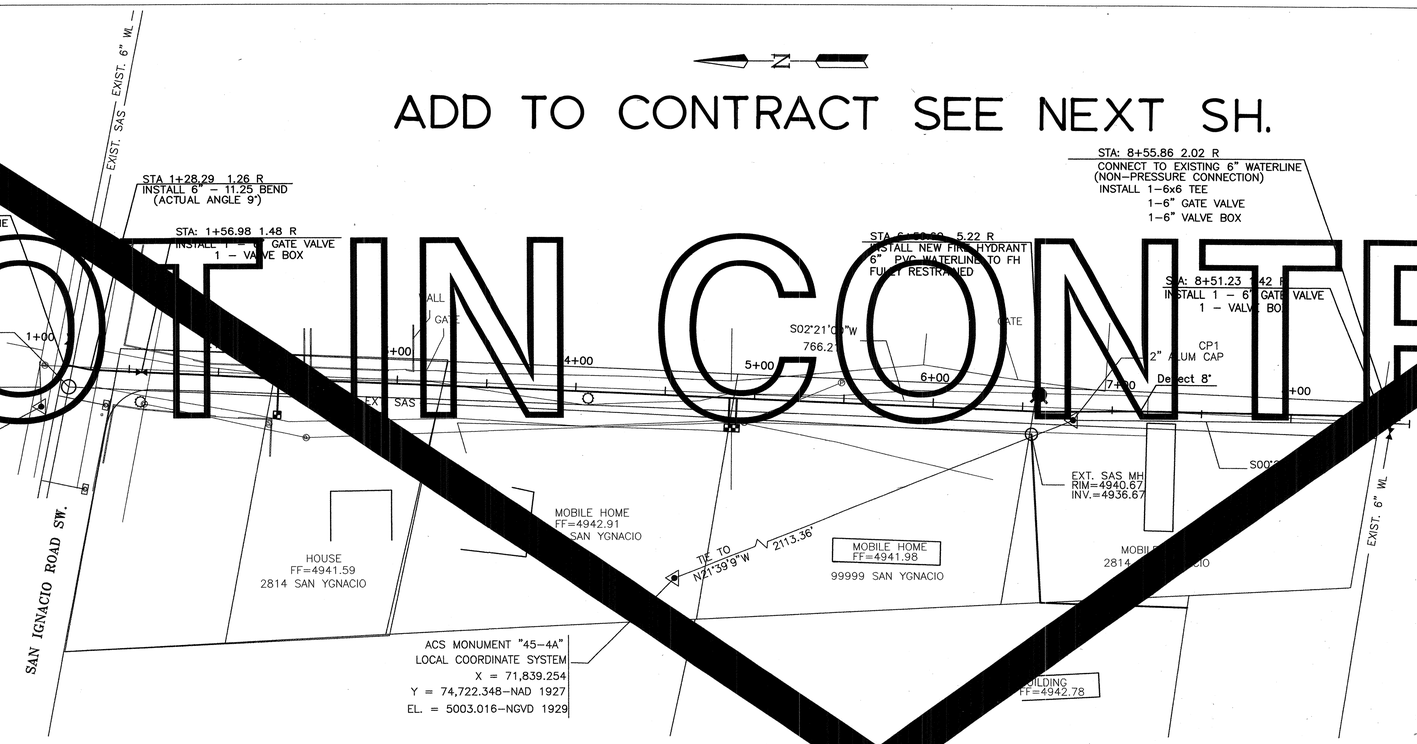
TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 422-PRIVATE ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L-11
Sheet 17 Of 25

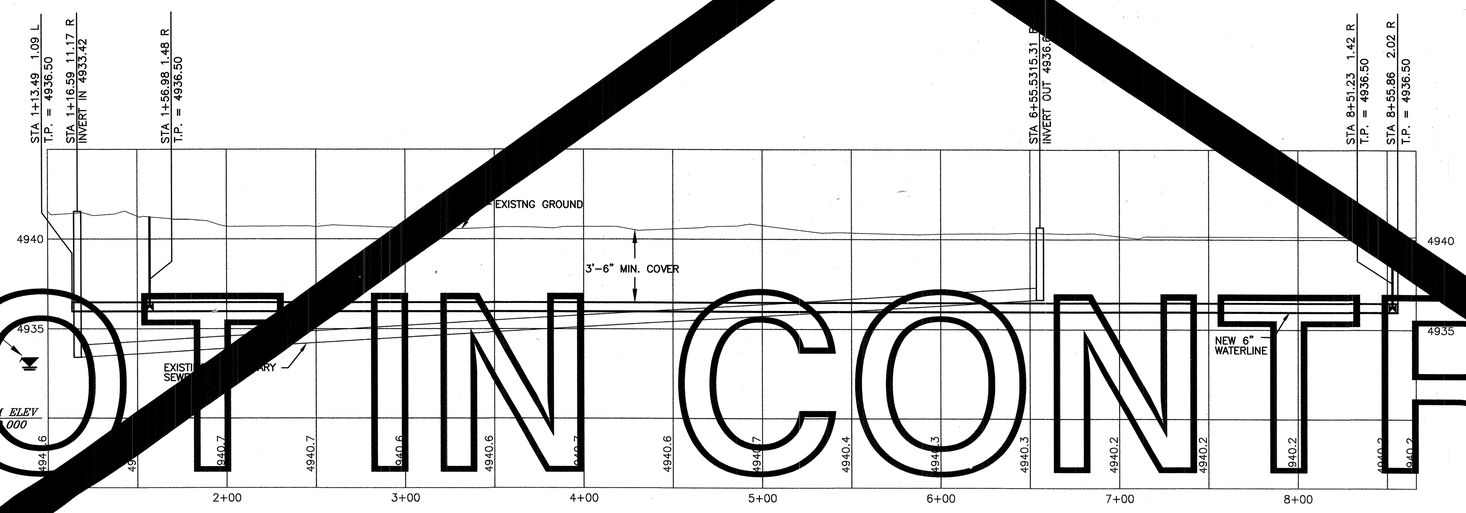
ADD TO CONTRACT SEE NEXT SH.

NOT IN CONTRACT



AREA 422 – PRIVATE ROAD PLAN

SCALE:
HORIZ: 1"=40'



AREA 422 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8209) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF THE SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 561 IN JUSTO, 951 AND 972 IN SAN YGNACIO, 1072 IN BENNY, 1012 IN JUANITA, 1011 IN FOOTHILL AND CONNECT TO EXISTING WATER FACILITIES. OPEN ALL VALVES.

CONTROL POINT DATA TABLE (GROUND COORDINATES)

POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	42[illegible]	72,619.0[illegible]	72,758.113	4940.[illegible]48
AEC CP2	42[illegible]	72,626.[illegible]41	[illegible]	940.[illegible]

MONUMENT DATA TABLE

CITY [illegible]	NORTHING	EASTING	ELEVATION
7–[illegible]	[illegible]69.3[illegible]	70,5[illegible]6.42	4966.013
NM 4[illegible]	[illegible]2.34	71,8[illegible]9.25	5003.016

1– ALL CONTROL [illegible] 2" ALUM CAP STAMPED [illegible] CP 1 OR 2.
2– COORDINATES ARE [illegible]S 1984/NAD27 DATUM AND ELEVATIONS ARE IN [illegible] DATUM.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
SURVEYER TO CALL ENGINEER

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14894
REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY

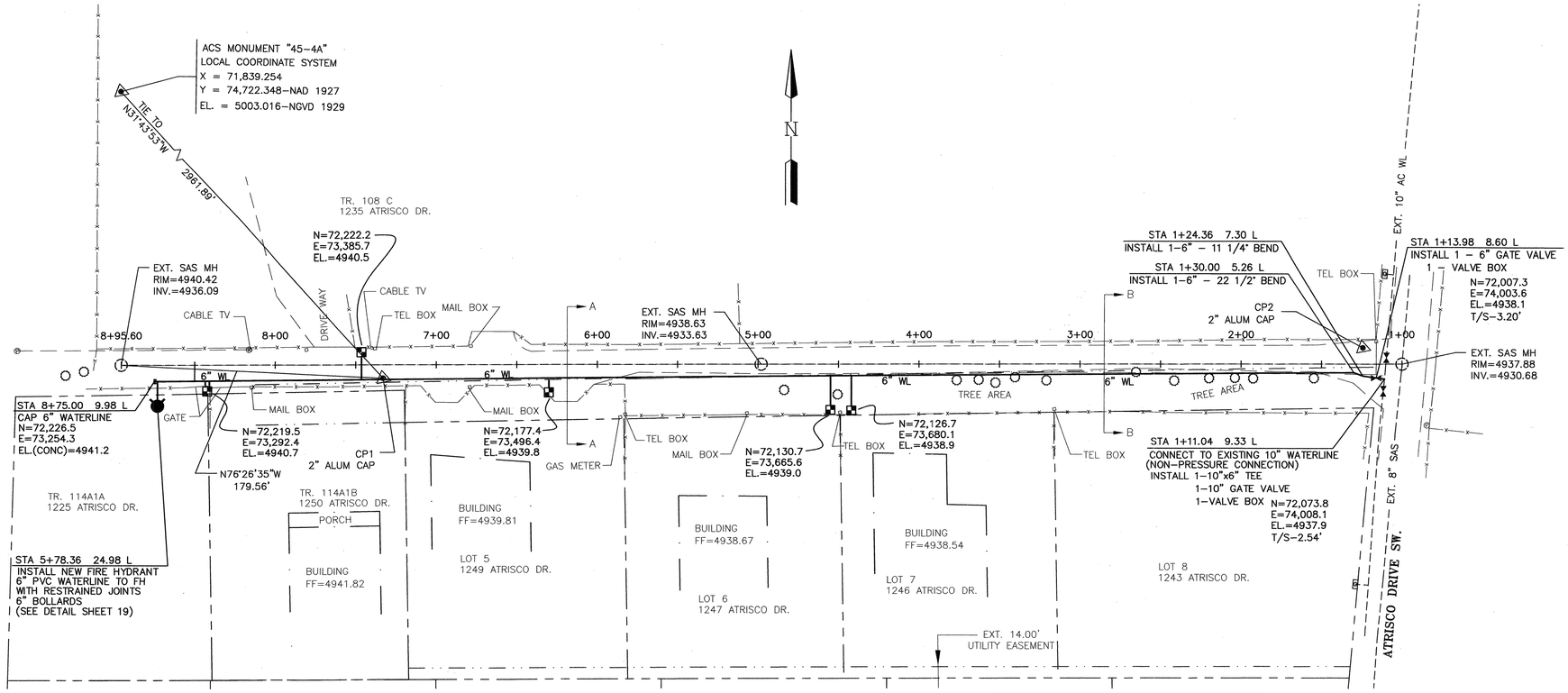
DESIGNED BY – NKB — DATE – 06/05
DRAWN BY – PVL — DATE – 06/05
CHECKED BY – DEB — DATE – 06/05

BERNALILLO COUNTY
[illegible]IC WORKS DIVISION
[illegible]ICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFI[illegible] SEWER AND WATER IMPROVEMENTS
AREA 422 - PRIVATE RO[illegible]

Design Review Committee	City Engineer Approv[illegible]	Last Design [illegible]	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No. L–11
Sheet 17

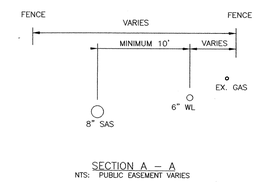


AREA 426 – PRIVATE ROAD PLAN

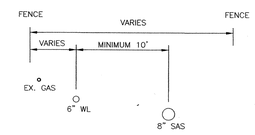
SCALE:
HORIZ: 1"=40'

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 1043 AND 1131 IN ATRISCO, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

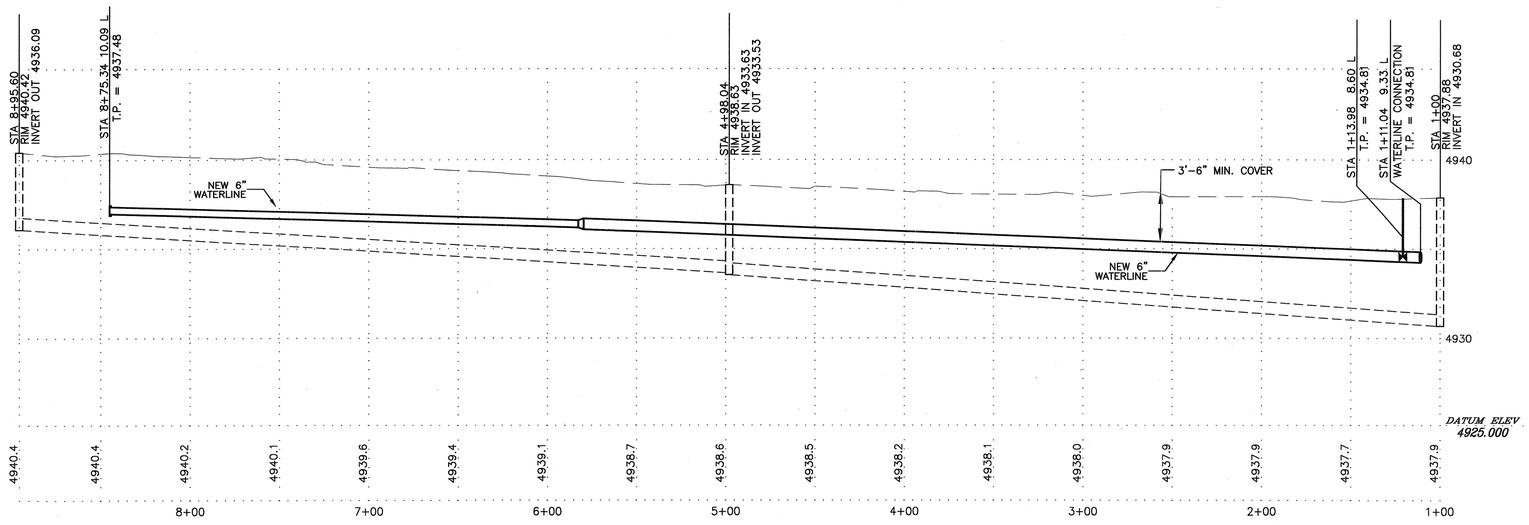


SECTION A – A
NTS: PUBLIC EASEMENT VARIES



SECTION B – B
NTS: PUBLIC EASEMENT VARIES

WATER SERVICES					
ADDRESS	LEGAL DISCRIPTION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
1225 ATRISCO DR SW	TR. 114A1A MRGCD MAP 42	N/A	N/A	N/A	8+37.38 9.98 L
1250 ATRISCO DR SW	TR. 114A1B MRGCD MAP 42	N/A	N/A	N/A	8+37.87 9.98 L
1249 ATRISCO DR SW	LOT 5 PATRICIO ADDITION	N/A	N/A	N/A	7+47.72 9.50 L
1247 ATRISCO DR SW	LOT 6 PATRICIO ADDITION	N/A	N/A	N/A	4+55.01 9.55 L
1246 ATRISCO DR SW	LOT 7 PATRICIO ADDITION	N/A	N/A	N/A	4+42.01 9.86 L
1235 ATRISCO DR SW	TR. 108 C MRGCD MAP 42	N/A	N/A	N/A	7+46.38 9.94 R



AREA 426 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	426	72,203.193	73,397.026	4940.023
AEC CP2	426	72,106.351	73,998.258	4937.781

MONUMENT DATA TABLE			
CITY MONUMENT	NORTHING	EASTING	ELEVATION
7-M1	70,469.374	70,536.426	4966.013
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X - 365169.46
Y - 1480226.55

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP
NEW MEXICO
14894
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

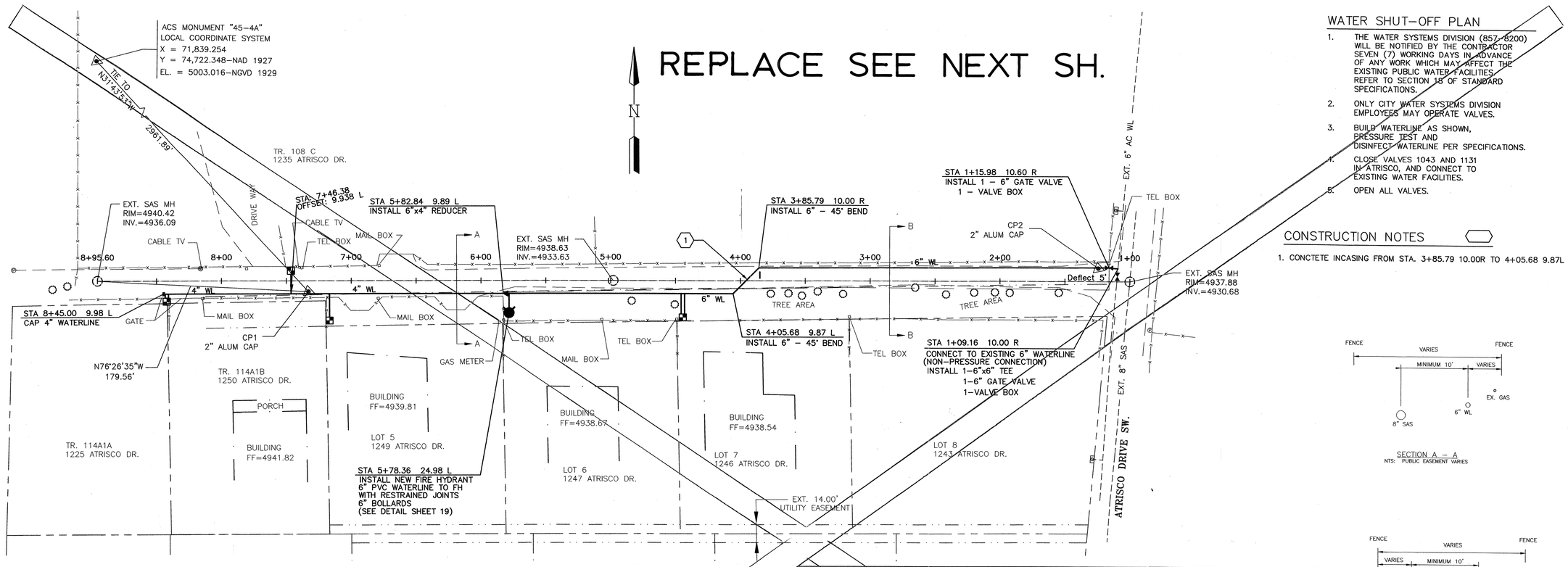
DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 426 – PRIVATE ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No. L12
Sheet 18 Of 25



AREA 426 – PRIVATE ROAD PLAN

SCALE:
HORIZ: 1"=40'

WATER SERVICES					
ADDRESS	LEGAL DISCRIPTION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
1225 ATRISCO DR SW	TR. 114A1A MRGCD MAP 42	N/A	N/A	N/A	8+43.38 9.98 L
1250 ATRISCO DR SW	TR. 114A1B MRGCD MAP 42	N/A	N/A	N/A	8+40.87 9.98 L
1249 ATRISCO DR SW	LOT 5 PATRICIO ADDITION	N/A	N/A	N/A	7+16.72 12.50 L
1247 ATRISCO DR SW	LOT 6 PATRICIO ADDITION	N/A	N/A	N/A	4+45.64 9.86 L
1246 ATRISCO DR SW	LOT 7 PATRICIO ADDITION	N/A	N/A	N/A	4+42.96 9.86 L
1235 ATRISCO DR SW	TR. 108 C MRGCD MAP 42	N/A	N/A	N/A	7+46.38 9.94 L

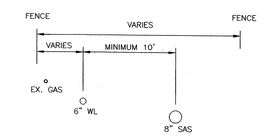
WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. CLOSE VALVES 1043 AND 1131 IN ATRISCO, AND CONNECT TO EXISTING WATER FACILITIES.
5. OPEN ALL VALVES.

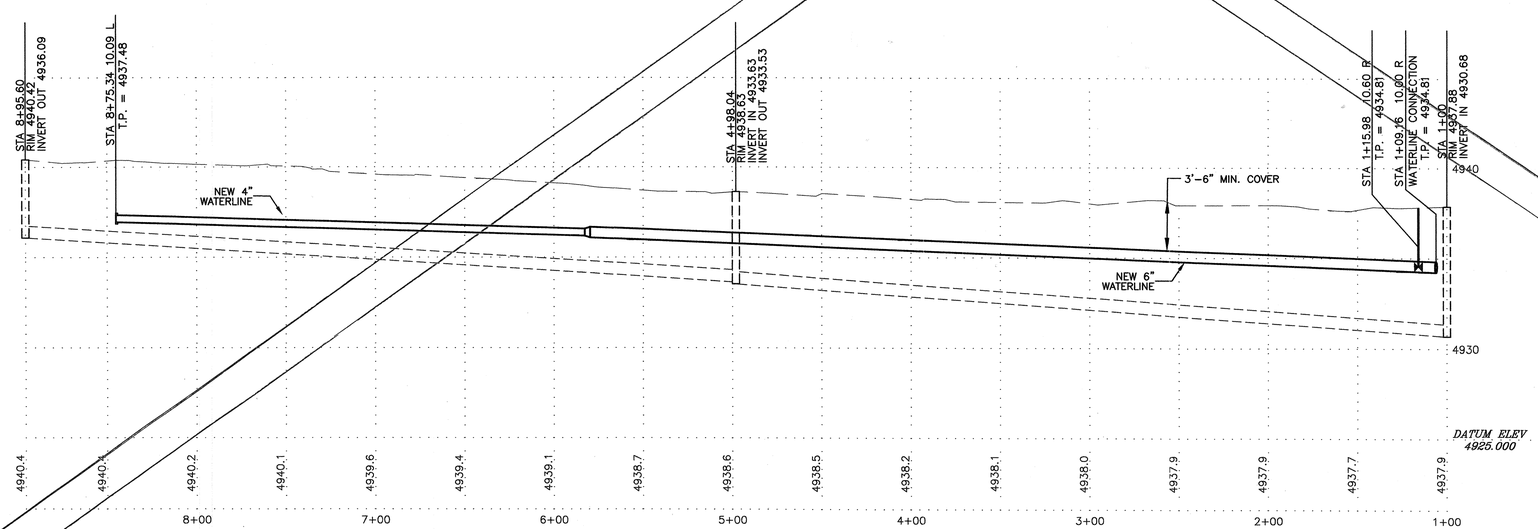
CONSTRUCTION NOTES

1. CONCTETE INCASING FROM STA. 3+85.79 10.00R TO 4+05.68 9.87L

SECTION A – A
NTS: PUBLIC EASEMENT VARIES



SECTION B – B
NTS: PUBLIC EASEMENT VARIES



AREA 426 – PRIVATE ROAD PROFILE

SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONTROL POINT DATA TABLE (GROUND COORDINATES)				
POINT NAME	COUNTY PROJ #	NORTHING	EASTING	ELEVATION
AEC CP1	426	72,203.193	73,397.026	4940.023
AEC CP2	426	72,106.351	73,998.258	4937.781

MONUMENT DATA TABLE			
DAY MONUMENT	NORTHING	EASTING	ELEVATION
2-M1	70,469.374	70,536.426	4966.013
NM 45-4A	74,722.348	71,839.254	5003.016

1- ALL CONTROL POINTS ARE 2" ALUM CAP STAMPED AEC CP 1 OR 2.
2- COORDINATES ARE IN THE WGS 1984/NAD27 DATUM AND ELEVATIONS ARE IN THE NGVD29 DATUM.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
3 1/4" ALUMINUM CAP STAMPED "NM 45-4A". THE CAP IS SET IN CONCRETE 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 3.2 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE.
PLANE COORDINATES:
X – 365169.46
Y – 1480226.55

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO 14694 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
		REVISIONS	

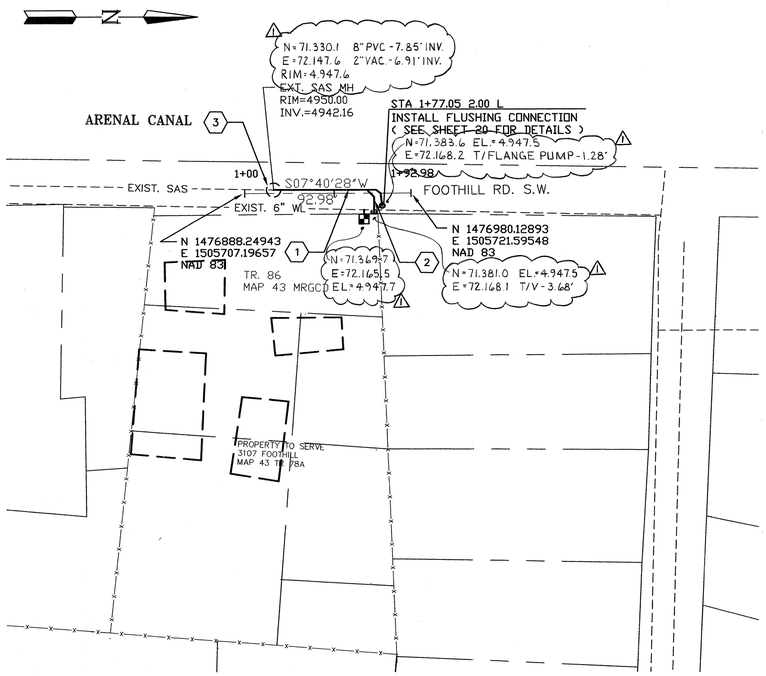
DESIGNED BY – NKB — DATE – 06/05
DRAWN BY – PVL — DATE – 06/05
CHECKED BY – DEB — DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 426 – PRIVATE ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

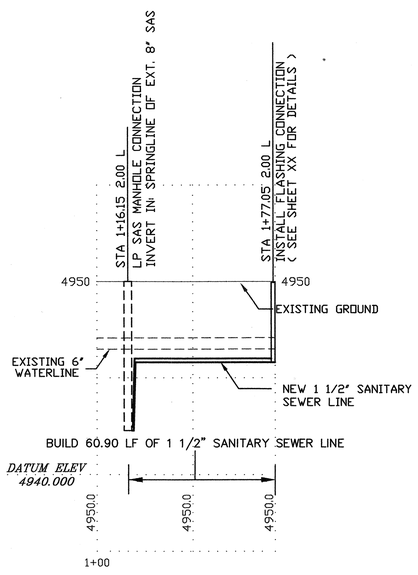
City Project No. 747881
County Project No. TS01-20
Zone Map No. L12
Sheet 18 Of 25



AREA 428 – FOOTHILL ROAD PLAN

SCALE: 1"=40'

4" SANITARY SEWER / WATER SERVICES						
ADDRESS	LEGAL DISCRIPTION	STATION	ELEV. @ PIPE (FT)	ELEV. @ PROP. LINE (FT)	SAS LENGTH	WATER STATION
1412 FOOTHILL DR. SW	TR 86 MRGCD MAP 43	2+80.78 0.00 R	4943.43	4943.73	13.0'	2+82.26 3.11 R

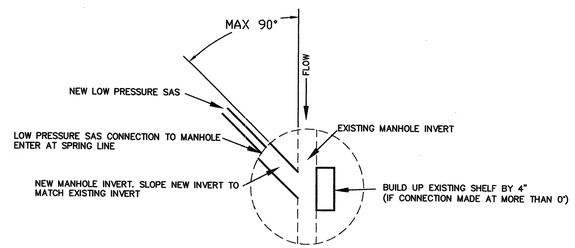


AREA 428 – FOOTHILL ROAD PROFILE

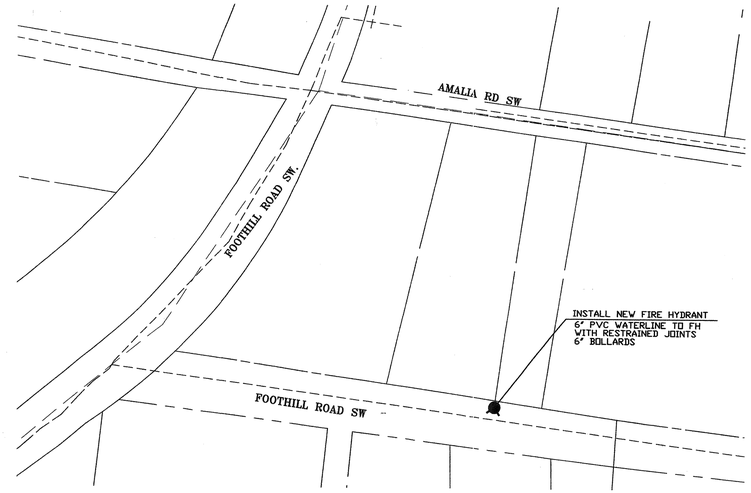
SCALE:
HORIZ: 1"=40'
VERT: 1"=4'

CONSTRUCTION NOTES

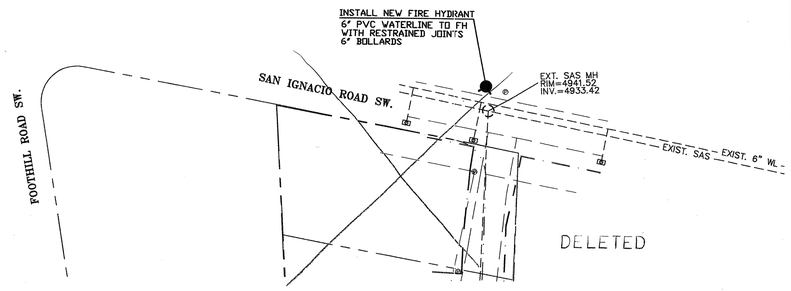
1. INSTALL 1½" LOW PRESSURE SEWER LINE. MAXIMUM TRENCH WIDTH OF 4 FEET.
2. LOW PRESSURE SEWER LATERAL (SEE SHEET 20 FOR DETAILS).
3. MANHOLE CONNECTION (SEE DETAIL BELOW).



LOW PRESSURE SAS CONNECTION TO MANHOLE



AREA 428B – FOOTHILL RD FIRE HYDRANT (AREA 499)

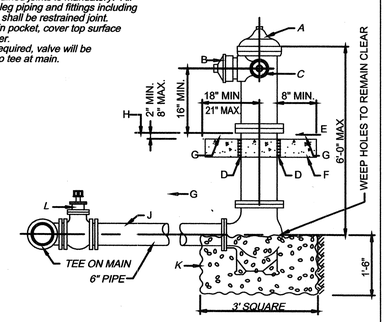


AREA 428C – SAN YGNACIO FIRE HYDRANT (AREA 422)

CITY OF ALBUQUERQUE
PUBLIC FIRE HYDRANT INSTALLATION
STANDARD DRAWING 2340-A

GENERAL NOTES
1. No obstruction will be permitted within 3'-0" of fire hydrant.
2. Hydrant leg shall be valved from mains 10" diameter and larger and in arterial streets located in commercial areas.
3. Contractor shall be responsible for setting top flange of fire hydrant to the dimensions shown.
4. For fire hydrant locations, see dwg. 2347-A.
5. When new or existing sidewalk abuts curb, reconstruct sidewalk per dwg. 2430, 2431.
6. Pumper nozzle to be set facing the traveled way, unless otherwise noted on plans.

CONSTRUCTION NOTES
A. Fire hydrant per specifications
B. Pumper nozzle 4 1/2"
C. Hose nozzle 2 1/2"
D. 1/2" expansion joint material
E. Slope 1/4" per foot
F. 3' x 3' x 6" concrete square pad, to be constructed around fire hydrant's centerline when not located within sidewalk or concrete area.
G. Typical Bollard (Detail this sheet)
H. Controlled elevation line, level in all directions.
J. Use of restrained joints is mandatory. All fire hydrant leg piping and fittings including tee on main shall be restrained joint.
K. Gravel drain pocket, cover top surface with tar paper.
L. If valve is required, valve will be connected to tee at main.

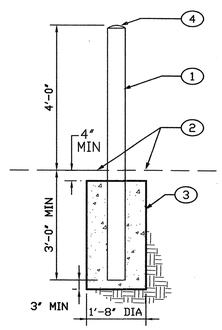


TYPICAL FIRE HYDRANT AND BOLLARD LAYOUT

SCALE: NTS

WATER SHUT-OFF PLAN

1. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
2. ONLY CITY WATER SYSTEMS DIVISION EMPLOYEES MAY OPERATE VALVES.
3. BUILD WATERLINE AS SHOWN, PRESSURE TEST AND DISINFECT WATERLINE PER SPECIFICATIONS.
4. AREA 428: CLOSE VALVES 304 AND 1104 IN FOOTHILL 302 AND 303 IN AMALIA, 301 IN KELLY, AND 1152 IN WILBUR.
   AREA 428 B (AREA 499): CLOSE VALVE 351 IN FOOTHILL AND 372 IN ARMIN.
   AREA 428C (AREA 422): CLOSE VALVES 561 IN JUSTO, AND 951 AND 972 IN SAN YGNACIO.
5. OPEN ALL VALVES.



6" BOLLARD

KEYED NOTES:

1. 6" DIA. STEEL PIPE W/REFLECTORIZED RED PAINT (CONC. FILLED W/SMOOTH EDGES).
2. PAVEMENT SECTION OR FINISHED GRADE - SEE PLANS.
3. CONCRETE FOOTING (3500 psi).
4. ROUNDED CONCRETE.

TYPICAL BOLLARDS

SCALE: NTS

AS BUILT INFORMATION
CONTRACTOR NM UNDERGROUND
WORK STAKED BY ALB. SURVEYING CO. DATE 12/05
INSPECTOR'S AS BUILT BY BCPW DATE 6/06
FIELD VERIFICATION BY BCPW DATE 6/06
DRAWINGS CORRECTED BY BCPW DATE 9/06
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
SURVEYER TO CALL ENGINEER

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO 14684 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
1	9/06	AS BUILT	

REVISIONS

DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
AREA 428 – FOOTHILL ROAD

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

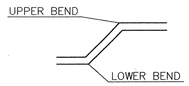
City Project No. 747881
County Project No. TS01-20
Zone Map No. L11
Sheet 19 Of 25

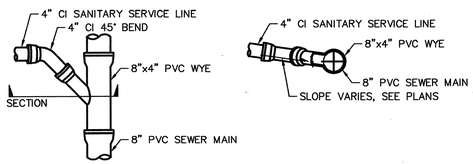
RESTRAINING JOINT TABLE

FITTING TYPE	LENGTH OF RESTRAINED JOINTS (FT.)			
	4"	6"	8"	10"
6"x6" TEE	--	1	--	--
8"x6" TEE	--	1	1	--
10"x6" TEE	--	2	--	6
6"x4" REDUCER	--	28	--	--
8"x6" REDUCER	--	--	30	--
10"x4" REDUCER	--	--	--	70
10"x6" REDUCER	--	--	--	53
90° HORIZ. REDUCER	18	25	32	38
45° HORIZ. BEND	7	10	13	16
22.5° HORIZ. BEND	4	5	6	8
11.25° HORIZ. BEND	2	2	3	4
GATE VALVE/CAP	39	55	72	86
45° VER. BEND (UPPER)	16	23	30	36
45° VERT. BEND (LOWER)	11	15	19	22

NOTES

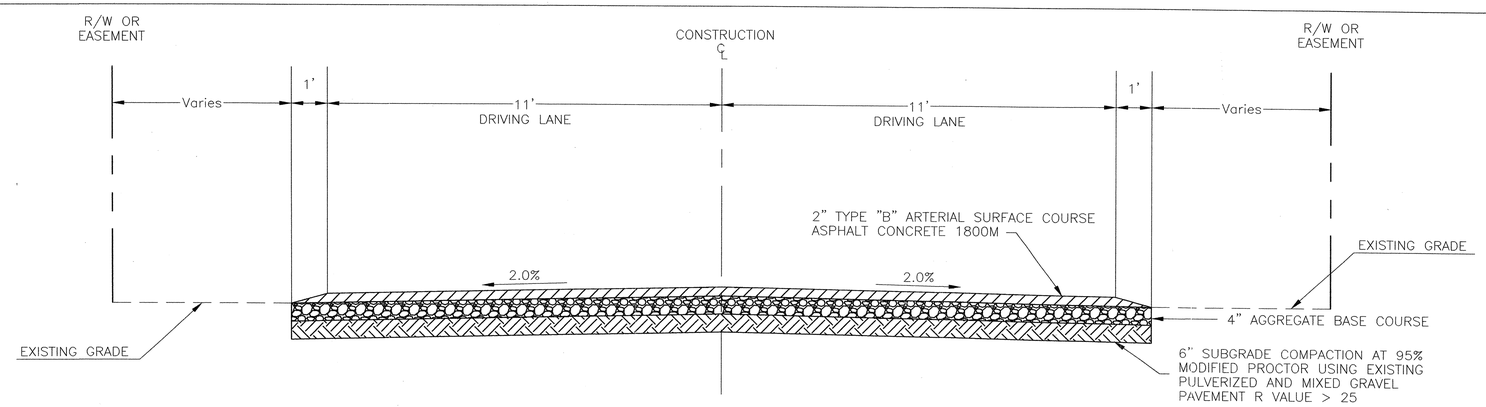
1. ALL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE (SEE NOTE 2).
3. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGES.
4. RESTRAINED LENGTH IS ON LARGE SIDE ON ALL REDUCERS.
5. RESTRAIN ALL JOINTS BETWEEN UPPER AND LOWER VERTICAL BENDS.
6. IN PROXIMITY OF EXISTING PIPE WHICH MAY NOT BE RESTRAINED, CONCRETE BLOCKING IS REQUIRED TO ENSURE RESTRAIN WITHIN RESTRAIN LENGTH OF THE TIE-IN.





SHALLOW SEWER TAP DETAIL

SCALE: NONE



TYPICAL ROADWAY SECTION

SCALE: N.T.S

3" RAP ROADWAY SECTION

INSTALL 3" RECYCLED ASPHALT BASE COURSE. UNPAVED ROADWAY RESTORATION TO EXISTING LINE AND GRADE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

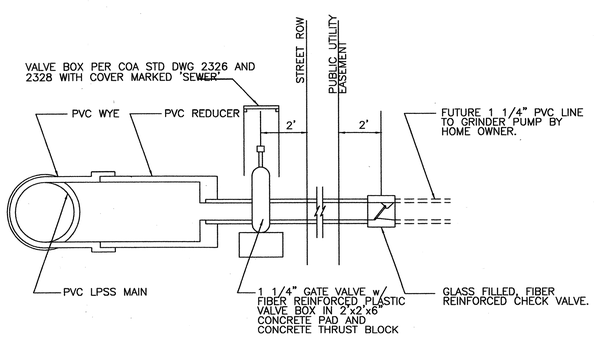
3" BASE COURSE (BC) ROADWAY SECTION

INSTALL 3" BASE COURSE. UNPAVED ROADWAY RESTORATION TO EXISTING LINE AND GRADE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

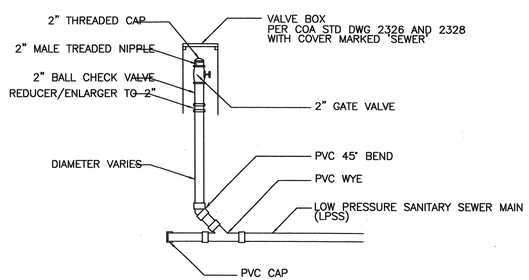
ROADWAY REHABILITATION

SHEET	STREET OR BRANCH NAME	STREET WIDTH (FEET)	STREET LENGTH (FEET)	EXISTING PAVEMENT SECTION TYPE	PROPOSED PAVEMENT SECTION TYPE	STRIPING (Y=YES / N=NO)	ACCESS TYPE E=EASEMENT/LETTER L=LICENSE/PERMIT R0W=RIGHT-OF=WAY	COMMENTS
4	356 PRIVT. RD.	20	660	GRAVEL	3" RAP	N	E	
4	FOOTHILL RD.	25	160	TYPICAL	TYPICAL	Y	BERN CO. ROW	
5	JARAMILLO RD.	25	600	TYPICAL	TYPICAL	N	BERN CO. ROW	
5	FOOTHILL RD.	15	15	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
6 & 7	ISLETA DRAIN	20	1230	GRAVEL	BC	N	L	
7	HOOPER RD.	25	30	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
8	364 PRIVT. RD.	20	160	GRAVEL	3" RAP	N	E	
9	ISLETA DRAIN	20	680	GRAVEL	BC	N	L	
10	371 PRIVT.RD.	25	560	GRAVEL	3" RAP	N	E	
10	FOOTHILL RD.	15	15	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
11	ISLETA DRAIN	20	280	GRAVEL	BC	N	L	
11	HOOPER RD.	25	30	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
12 & 13	373 PRIVT. RD.	25	1300	GRAVEL	3" RAP	N	E	
12	FOOTHILL RD.	25	15	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
13	ATRISCO RD.	25	25	TYPICAL	TYPICAL	Y	CABQ ROW	4" THICKNESS - PAVEMENT CUT*
14	FOOTHILL RD.	25	470	TYPICAL	TYPICAL	Y	BERN CO. ROW	ONE SPEED HUMP
15	412 PRIVT. RD.	20	290	TYPICAL	TYPICAL	N	E	
15	ATRISCO RD.	25	20	TYPICAL	TYPICAL	Y	BERN CO. ROW	4" THICKNESS - PAVEMENT CUT*
16	415 PRIVT	25	520	GRAVEL	3" RAP	N	E	
16	415 ESMT	20	150	GRAVEL	BC	N	E	
16	SALVADOR RD.	20	20	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
16	PEREZ RD.	20	20	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*
18	426 PRIVT. RD.	25	750	GRAVEL	~~3" RAP~~ GRAVEL	N	E	
18	ATRISCO RD.	15	15	TYPICAL	TYPICAL	Y	BERN CO. ROW	4" THICKNESS - PAVEMENT CUT*
19	FOOTHILL RD.	10	100	TYPICAL	TYPICAL	Y	BERN CO. ROW	
19	SAN YGNACIO RD	15	15	TYPICAL	TYPICAL	Y	BERN CO. ROW	PAVEMENT CUT*

* THE PAVEMENT CUT LISTED IS THE MAXIMUM CUT. PAVEMENT CUTS WILL BE REDUCED BASED ON FIELD CONDITIONS



SEWER SERVICE LATERAL
N.T.S.



FLUSHING CONNECTION
N.T.S.

FOOTHILL / BRIDGE
POTHOLES RESULTS

AREA	PAGE	POTHOLE #	STATION	OFFSET	SIZE	TYPE	MATERIAL	TOP OF PIPE
356	4	1	8+82.65	5.38 L	6"	WATER	CCP	48"
356	4	1a	8+82.31	10.43 L	1"	CATV	D.B. Cable	20"
356	4	2	7+59.66	6.96 R		WATER	No Locate	Clrd. to 8'
356	5	3	7+26.79	8.24 R		WATER	No Locate	Clrd. to 8'
356	4	4	7+97.70	12.38 L	2"	GAS	METALLIC	34"
356	7	5	1+07.69	0.56 R		WATER	No Locate	Clrd. to 8'
356	7	6	1+23.46	1.61 L	2"	GAS	METALLIC	40"
371-2	10	7	8+79.10	6.92 L	2"	GAS	METALLIC	37"
371-2	10	8	12+43.56	2.23 L		WATER	No Locate	Clrd. to 8'
373-2	11	9	00+98.80	11.65 R	36"	WATER	CCP	80"
373-2	11	10	3+13.86	14.84 R	36"	WATER	CCP	59"
373-2	11	11	1+02.09	19.94 R	20"	WATER	CCP	37"
373-2	11	12	1+13.63	7.41 R		WATER	No Locate	Clrd. to 8'
373-2	11	13	00+94.42	16.21 L	5"	GAS	METALLIC	64"
373-2	11	14a	2+60.78	23.65 R	2"	GAS	Poly	30"
373-2	11	14	3+14.41	23.72 R		GAS	No Locate	Clrd. to 8'
373-2	12	18	8+48.38	5.86 L	36"	WATER	CCP	64"
412	15	19	1+32.92	3.28 R		WATER	No Locate	Clrd. to 8'
373-2	13	21	4+57.42	40.13 R	2"	GAS	METALLIC	27"
412	15	20	1+28.54	7.23 R	16"	WATER	METALLIC	42"
373-2	13	22	4+60.30	1.64 L	6"vhp	GAS	METALLIC	38"
373-2	13	24	4+56.73	1.97 L	16"	WATER	AC	48"
373-2	13	25	4+62.46	3.27 L	12"	WATER	METALLIC	34"
373-2	13	26	4+62.54	33.55 L	2"	WATER	METALLIC	34"

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DAVID E. BISHOP NEW MEXICO 14694 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
UTILITY DETAILS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No.
Sheet 20 Of 25

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95–12 AND COUNTY ORDINANCE NO. 96–3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848–1504 FOR MORE INFORMATION.

2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848–1504 FOR FURTHER INFORMATION.

3. A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR.

4. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: PROJECT MANAGER

5. THE CONTRACTOR SHALL FILE A WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL ADMINISTRATOR DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.

6. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.

7. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.

8. TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

9. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.

10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF THE COUNTY TRAFFIC CONTROL ADMINISTRATOR, PER SECTION 6A–4 OF THE MUTCD, LATEST EDITION.

11. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET–UP FOR EACH PHASE SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

13. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI–LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

14. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING PER MUTCD SECTION 6A–4.

15. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

16. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON–WORKING HOURS WITHOUT THE APPROVAL OF BERNALILLO COUNTY TRAFFIC ENGINEERING.

17. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

18. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

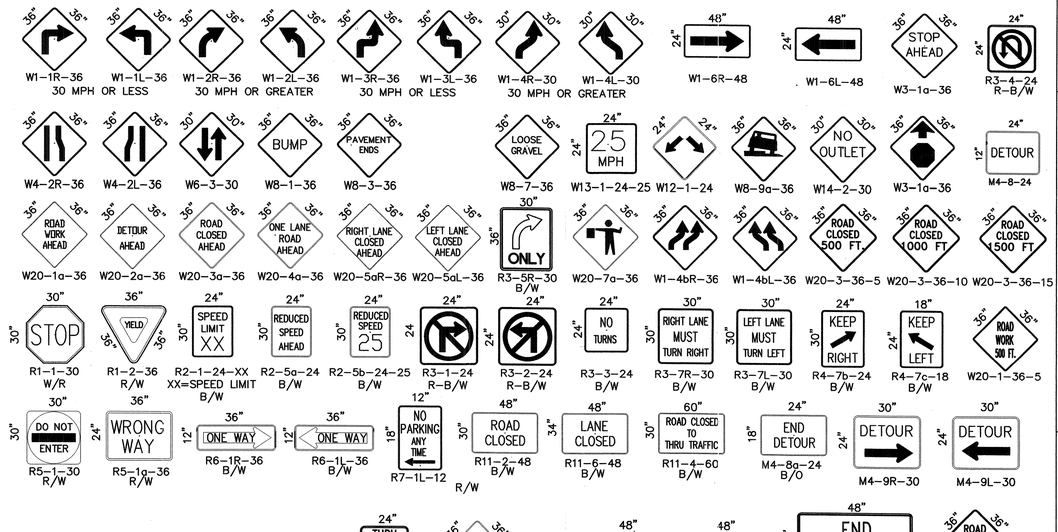
20. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF BERNALILLO COUNTY TRAFFIC ENGINEERING. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE LETTERING ON BLUE BACKGROUND. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

21. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT–OF–WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

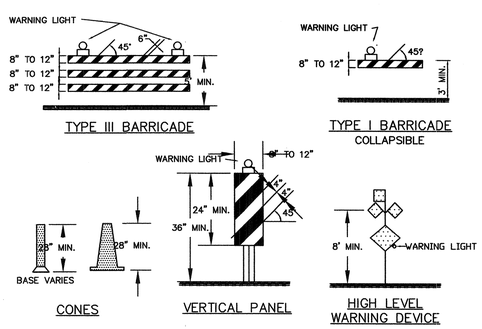
22. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.

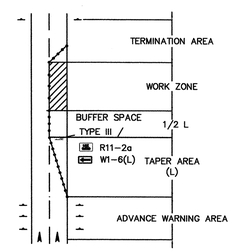
23. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET, SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.





TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III–A SHEETING
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

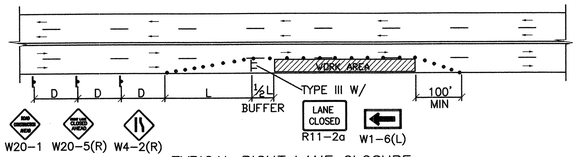
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

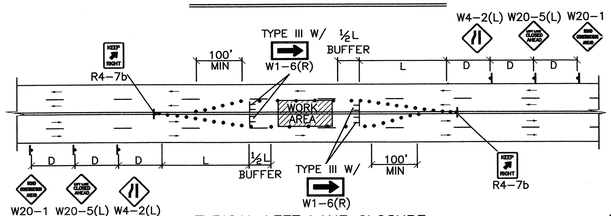
TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
TRAFFIC CONTROL NOTES

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

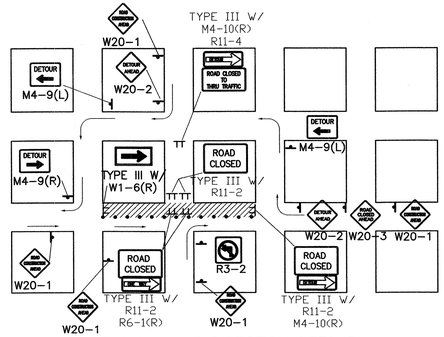
City Project No. 747881
County Project No. TS01–20
Zone Map No.
Sheet 21 Of 25



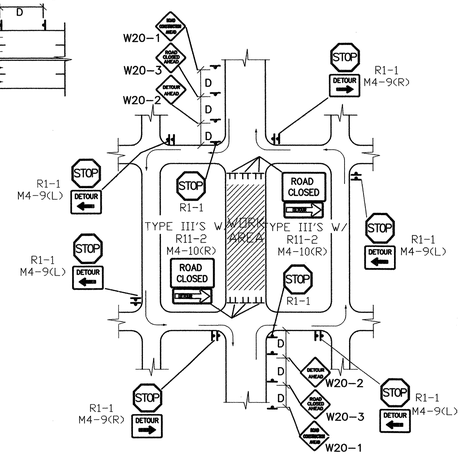
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



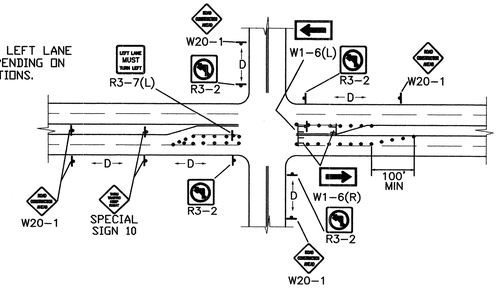
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

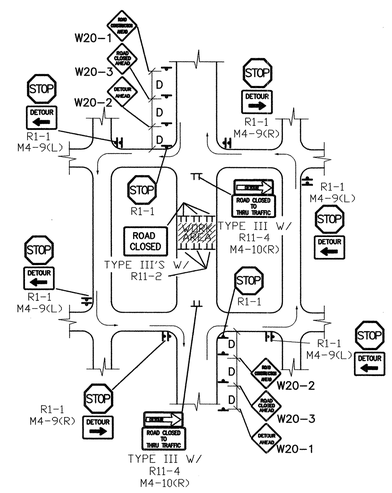
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



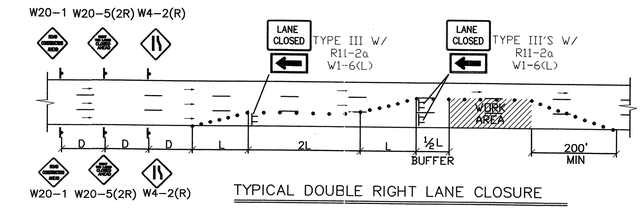
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.

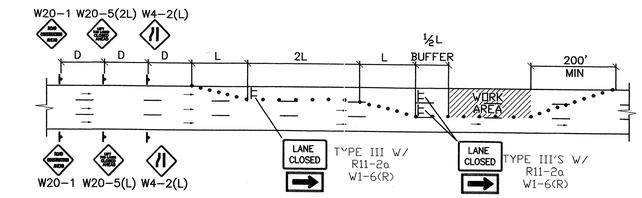


TYPICAL MID-BLOCK CLOSURE

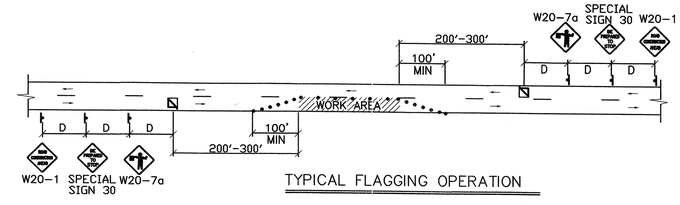
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



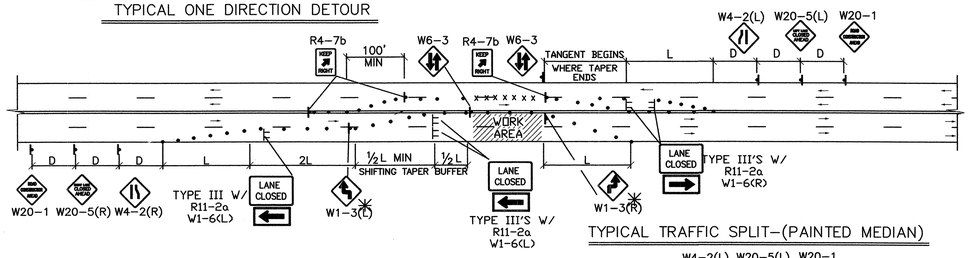
TYPICAL DOUBLE RIGHT LANE CLOSURE



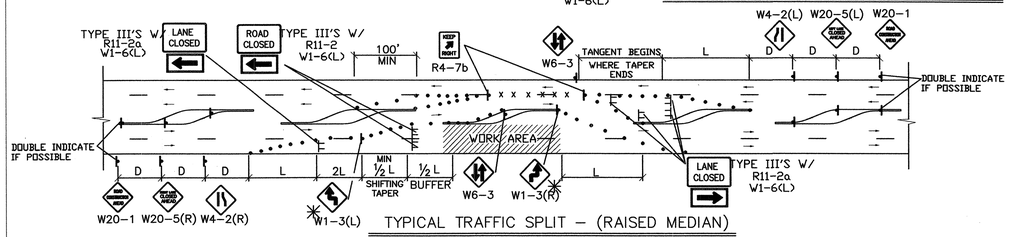
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



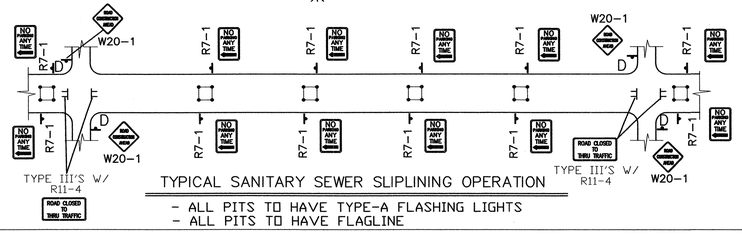
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT – (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. ✳ USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



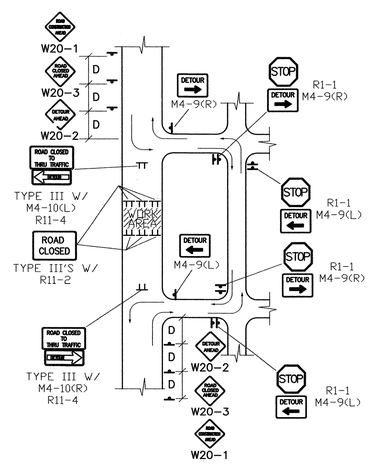
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

GENERAL NOTE:

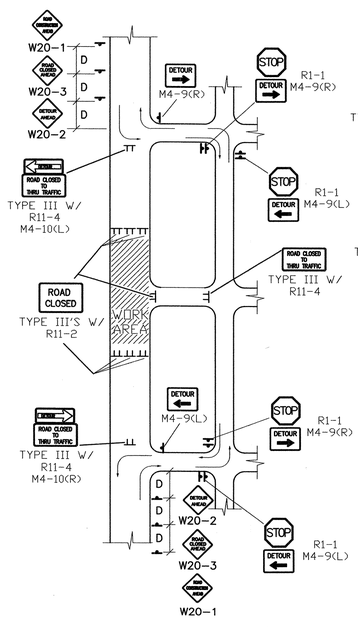
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

⚠ ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



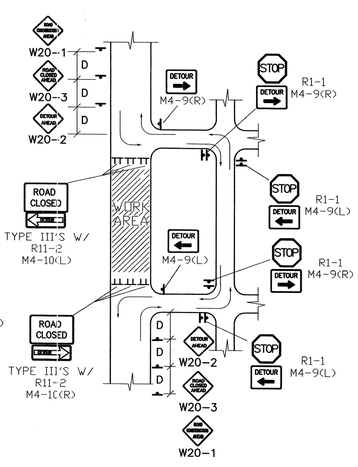
TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
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BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
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DESIGNED BY - NKB DATE - 06/05
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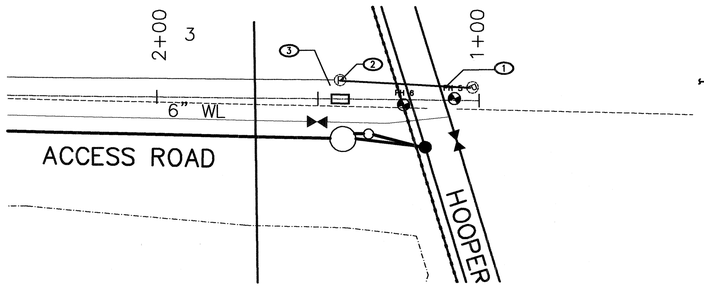
BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS

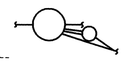
TYPICAL TRAFFIC CONTROL AND SIGNING

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No.
Sheet 22 Of 25



AREA 356 – ISLETA DRAIN #2 PLAN



MANHOLE PLAN
NTS

POWER SUPPLY NOTES:

A. NEW PNM POWER POLE:

– FOR THREE PHASE UNDERGROUND SECONDARY PROVIDE AND INSTALL SERVICE RISER PER PNM DS–4–9.5.

– FOR THREE PHASE UNDERGROUND PRIMARY PROVIDE AND INSTALL SERVICE RISER AND TRANSFORMER PAD PER PNM DS–7–15.0.

B. CONTROL PANEL AND SECONDARY METERING: SEE SUPPL. DWG. 2176.

– FOR THREE PHASE SERVICE PROVIDE BACKMOUNT METER SOCKET PER PNM MS–2–6.0 AND INSTALL PER PNM MS–3–10.0.

C. FOR WIRE TERMINATIONS IN WET WELL: SEE SUPPL. DWG. 2175.

D. INSTALL UNDERGROUND CONDUIT/CONDUCTORS: SEE SUPPL. DWGS. 2175, 2182.

E. ANTENNA: SEE SUPPL. DWG. 2178.

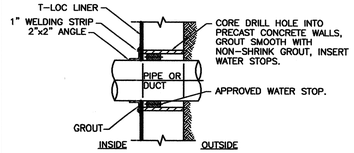
KEYED NOTES:

1. NEW 3ø AERIAL SERVICE EXTENDED BY PNM.
2. NEW POLE RISER AND UNDERGROUND SERVICE. REFER TO POWER RISER DRAWING FOR REQUIREMENTS.
3. METER AND SERVICE DISCONNECT LOCATION. REFER TO ELECTRICAL PLAN.

GENERAL NOTES:

1. LIFT STATION SHALL NOT BE LOCATED IN TRAVELED–WAY OF COMMERCIAL OR ARTERIAL STREETS.
2. LIFT STATION SHALL NOT BE LOCATED IN DRAINAGE PATHS (i.e. SWALES, GUTTERS OR INVERTS, ETC.). LOCAL DRAINAGE TO BE DIRECTED AWAY FROM STATION IN SHOULDER LOCATIONS.
3. ELECTRICAL POWER AND SUPPLY METERING TO BE COORDINATED WITH PUBLIC SERVICE COMPANY OF NEW MEXICO.
4. DISRUPTION OF EXISTING UTILITIES AND DRIVEWAYS TO BE AVOIDED.
5. LOCATE CONTROL PANELS AT SIDE LOT LINES (AS SHOWN) WHEN POSSIBLE.
6. POLE MOUNT TRANSFORMERS TO BE SUPPLIED AND INSTALLED BY PNM.
7. FIELD VERIFY LOCATIONS OF SECONDARY POLES WITH PNM.
8. WET WELLS LARGER THAN 48" TO BE USED IN SHOULDER AREAS ONLY.
9. THE CONTROL PANEL AND ITS ENCLOSURE SHALL NOT BE LOCATED MORE THAN 50' FROM THE WET WELL.
10. THE PUBLIC RECORD LOCATION OF DOCUMENTS WHICH DEDICATE THE OCCUPIED EASEMENTS OR RIGHT–OF–WAY SHALL BE NOTED ON THE PROJECT DRAWINGS.

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – LAYOUT SUPPL. DWG. 2171 JULY 2005



PIPE WALL PENETRATION
NTS

GENERAL NOTES:

1. VAULT SHALL BE OF 48" DIA. PRECAST CONCRETE SECTIONS ONLY.
2. USE NON–SHRINK GROUT FOR FILLETS AND PIPE PENETRATIONS.
3. USE APPROVED MASTIC JOINT MATERIAL FOR ALL JOINTS.
4. COMPACT ALL BACKFILL AROUND VAULT TO 95% PER ASTM D1557.
5. LIFT STATION SHOULD HAVE A 8" GRAVITY OVERFLOW PIPE TO OUTFALL
6. SEWER MANHOLE.
7. ALL INTERIOR SURFACES TO BE COATED W/T–LOC LINER PLATE IN ACCORDANCE WITH MANUFACTURER'S DETAILS AND SECTION 122, PLASTIC LINER PLATE.

LOCATION AND SHAPE OF COMPONENTS WILL VARY WITH MANUFACTURER.

OFFSET ENCLOSURE:

IF EXTERIOR TO WET WELL, ITEMS MUST CONFORM TO THIS DETAIL AND MUST BE LOCATED IN COMPLETE, STRUCTURALLY SOUND AND ENTRY SECURE REINFORCED CONCRETE SUBSURFACE ENCLOSURE, PATTERNED AFTER STD. DWG. 2350.

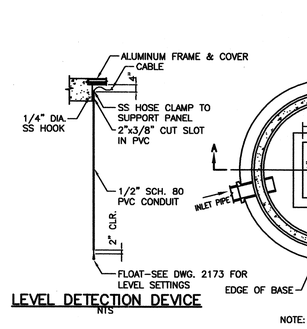
VALVE PIT ENCLOSURE SHALL BE ACCESSED THROUGH BOLTED CAST IRON LID/FRAME AND SHALL ALLOW TRAPPED WATER TO DRAIN INTO SUBSURFACE INFILTRATION GALLERY.

NO ELECTRICAL/POWER/CONTROL JUNCTION BOXES ALLOWED IN OFFSET ENCLOSURE. CABLES TO RUN CONTINUOUSLY BETWEEN WET WELL & CONTROL PANEL.

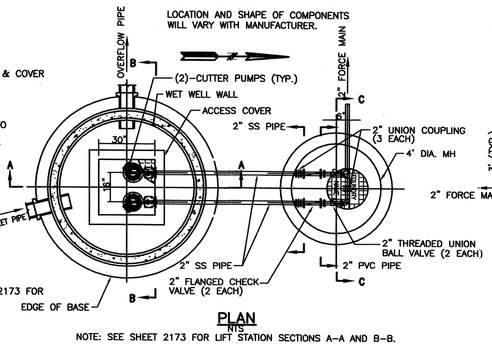
REFERENCE NOTES:

SEE SUPPL. DWG. 2173 FOR CROSS SECTIONS.

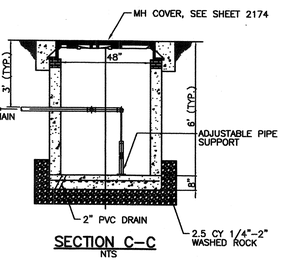
SEE SUPPL. DWG. 2176 FOR CABLE/CONDUIT ENTRY.



LEVEL DETECTION DEVICE
NTS



PLAN
NTS
NOTE: SEE SHEET 2173 FOR LIFT STATION SECTIONS A–A AND B–B.



SECTION C–C
NTS

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – PLAN SUPPL. DWG. 2172 MAR. 2005

CONSTRUCTION NOTES:

A*. SEAL JOINTS W/APPROVED MASTIC JOINT MATERIAL (TYPICAL ALL JOINTS.)

A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF WET WELL TO BELL OF FIRST JOINT & CRADLE PIPE TO SPRING LINE.

B. PIPE PENETRATION INTO WET WELL SHALL BE 3" MIN., MEASURED AT SPRINGLINE, TYP. AT ALL PENETRATIONS.

C. STAINLESS STEEL ELBOW.

D. BASE TO BE POURED IN–PLACE USING #4 BARS @ 8" O.C. EA. WAY FOR VAULT DEPTH OF 16' OR GREATER. #4 BARS @ 12" O.C. EA. WAY FOR VAULT LESS THAN 16' DEEP.

E. 6" GROUT FILLET ON UPPER HALF OF PIPE & AROUND BASE (2:1 MIN FINISHED SLOPE.)

F. APPROVED WATERSTOP. SEE DETAIL ON SUPPL. DWG. 2172.

G. 2.7 HP CUTTER PUMP ON GUIDERAIL W/ POWER CABLE, 66gpm @ 34.5' TDH, 460v, 3 ø.

H. 30"x30" ALUMINUM ACCESS HATCH & FRAME. SEE SUPPLEMENTAL SPECIFICATIONS AND SUPPL. DWG. 2174.

I. STAINLESS STEEL LIFTING CHAIN. SIZED TO PUMP W/2.0 MINIMUM SAFETY FACTOR. PROVIDE SS HOOK ON LID.

J. 2" SS DISCHARGE PIPE.

K. CONCRETE COVER ON WET WELLS. SEE SUPPL. DWG. 2174.

L. 2" STAINLESS STEEL DISCHARGE PIPING, IN INCLUDING NIPPLES & ELBOW, INSIDE WET WELL.

M. SUSPENDED SO CORD/CABLE (TYPICAL OF 4.)

N. CONDUIT WALL PENETRATION. SEE SUPPL. DWG. 2175.

O. 8" SEWER INLET PIPE.

P. REMOVABLE LIQUID LEVEL DETECTION DEVICES. SEE SUPPL. DWG. 2172.

Q. 3" SCHEDULE 40 GALVANIZED PIPE VENT–180° ELBOW W/SCREEN (ONLY IF SPECIFICALLY CALLED FOR IN PLANS).

R. (4)–1/2" CONDUITS FOR WATER LEVEL DETECTION SENSORS.

S. GROUT FILL W/ MINIMUM 45° SLOPE AT FACE OF SHOULDER GRADE TO 1" BELOW RIM (PAVE FLUSH TO RIM/FRAME IN TRAVELED WAY.)

T. 8" SEWER OVERFLOW PIPE.

U. T–LOC LINER.

V. AMER PLATE SHEET.

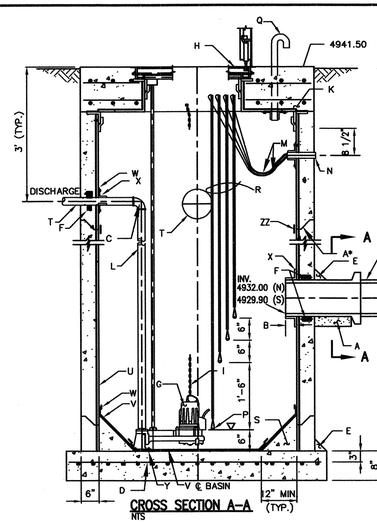
W. 1" WELD STRIP, TYP.

X. 2" ANGLE STRIP AT ALL PENETRATIONS.

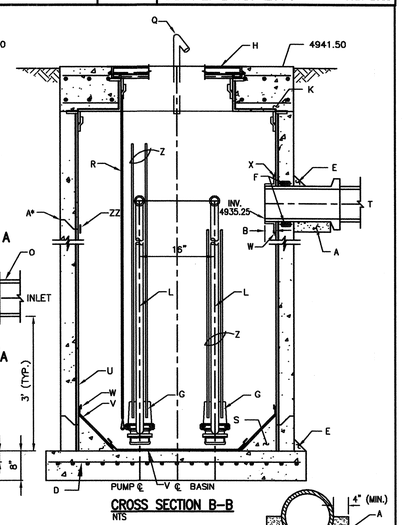
Y. SEAL AT ALL BOLTS PER LINER MANUFACTURER'S SPECIFICATIONS.

Z. 3/4" SS GUIDE RAILS.

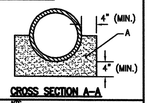
ZZ. 2" WELD STRIP, TYP.



CROSS SECTION A–A
NTS



CROSS SECTION B–B
NTS



CROSS SECTION A–A
NTS

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – SECTIONS SUPPL. DWG. 2173 MAR. 2005

CONSTRUCTION NOTES:

A. PRECAST REINF. CONC. MH COVER.

B. ALL BARS TO HAVE 1 1/2" MIN. COVER, TYP.

C. ALUMINUM ACCESS HATCH AND FRAME.

D. TOP MAT NO. 4 BARS AT 12" O.C. EA. WAY

E. NO. 4 BARS.

F. BOTTOM MAT

G. MANHOLE COVER. UNIFORM EDGE FOR PLACEMENT ON SMOOTH CUT WET WELL WALL OR BRICK RISERS

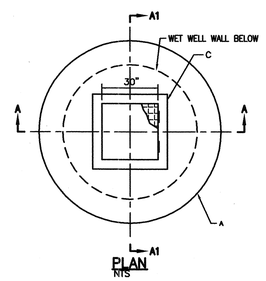
H. MH LID WITH FRAME (NEENAH R–1741–F OR EQUAL). SOLID LID WITH REMOVABLE OFFSET CENTER LID.

I. (ID+18") X (ID+18") x 8" CONCRETE PAD IN ALL AREAS, PAVED OR UNPAVED.

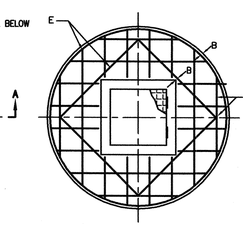
J. T–LOC LINER.

K. 1" WELDSTRIP (TYP.)

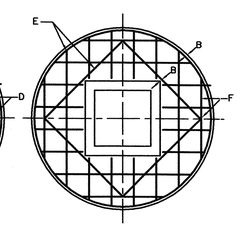
L. 2"x2" ANGLE STRIP WITH ADHESIVE.



PLAN
NTS

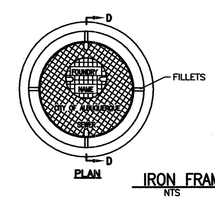


SECTION B–B. TOP MAT

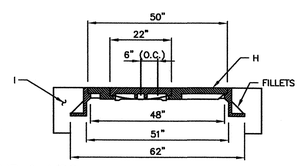


SECTION C–C. BOTTOM MAT

REINFORCED CONCRETE COVER
NTS 72" WET WELL

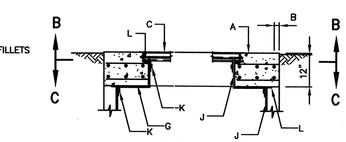


PLAN



IRON FRAME & LIDS
NTS VALVE PIT

SECTION D–D



SECTION A–A

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – LID & COVER SUPPL. DWG. 2174 MAR. 2005

AS BUILT INFORMATION

CONTRACTOR — DATE
SPECIAL INSPECTOR'S — DATE
INSPECTOR'S — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DAVID E. BISHOP — NEW MEXICO — 14694 — REGISTERED PROFESSIONAL ENGINEER — 06/21/05

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY – NKB — DATE – 06/05
DRAWN BY – PVL — DATE – 06/05
CHECKED BY – DEB — DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

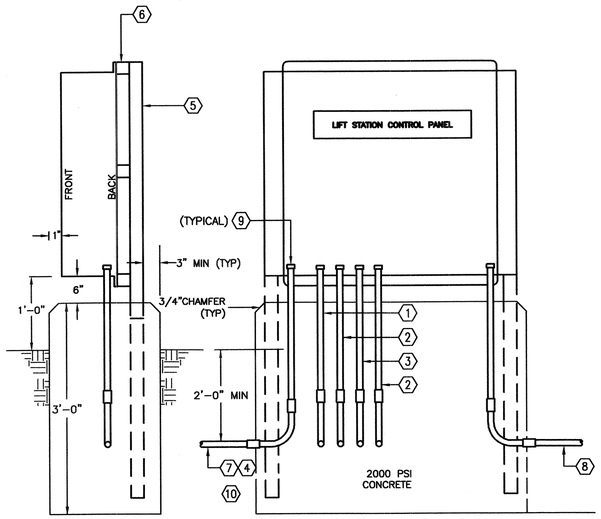
TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
LIFT STAION LAYOUT

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01–20
Zone Map No.
Sheet 23 Of 25

KEYED NOTES

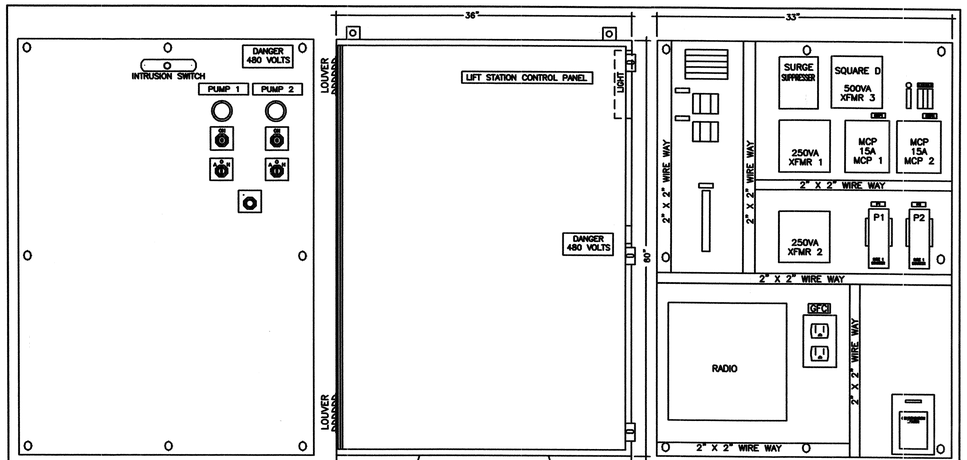
1. 3/4" PVC COATED RIGID CONDUIT, WITH (1) 14/2 SO CORD TO INTRUSION ALARM SWITCH.
2. PVC COATED RIGID CONDUIT WITH (1) 5-CONDUCTOR SO CORD SUPPLIED WITH PUMP.
3. 3/4" PVC COATED CONDUIT, (1) 6-CONDUCTOR SO CORD SUPPLIED WITH LEVEL SWITCHES.
4. BASED ON CONNECTED LOAD.
5. 2" X 2" X 1/4" SQUARE STEEL TUBE, PAINTED TO MATCH ENCLOSURE.
6. P1000 UNISTRUT WELDED TO 2" X 2" X 1/4" SQUARE STEEL TUBE.
7. SERVICE CONDUIT AND CONDUCTOR.
8. 1-1/2"C, (1) 1/2" HELIAX TRANSMISSION LINE TO ANTENNA.
9. INSULATED GROUNDING BUSHING. BOND TO PANEL GROUND BUS.
10. BOLLARD (SEE DETAIL SHEET 19)



SIDE
NTS

FRONT
NTS

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – CABINET SUPPL. DWG. 2176 JULY 2005



INSIDE DOOR VIEW
NTS

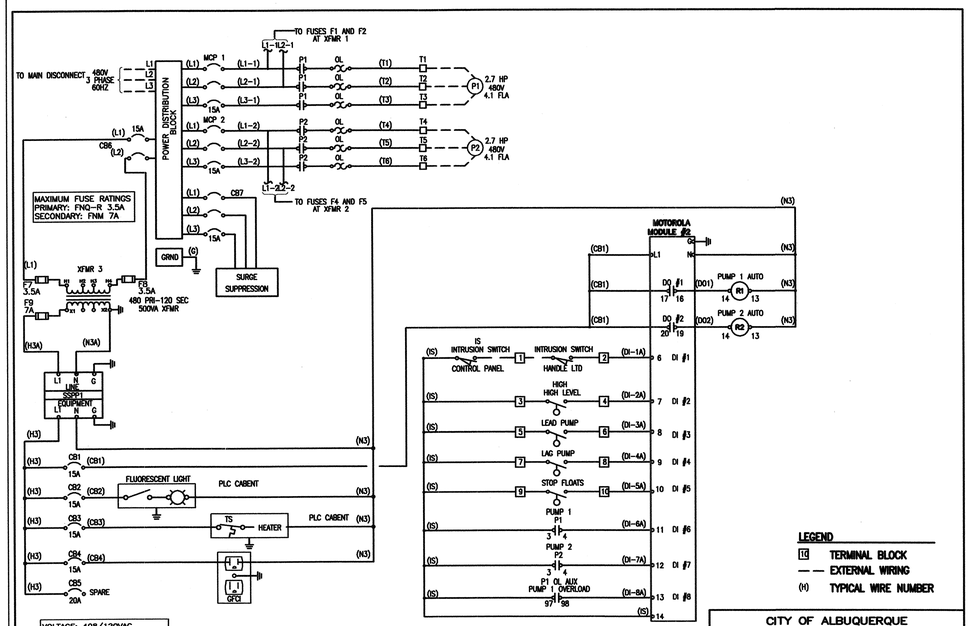
FRONT VIEW
NTS

BACKPLATE VIEW
NTS

TOP VIEW
NTS

NOTE:
A REFER TO SPECIFICATIONS FOR EQUIPMENT MANUFACTURER.

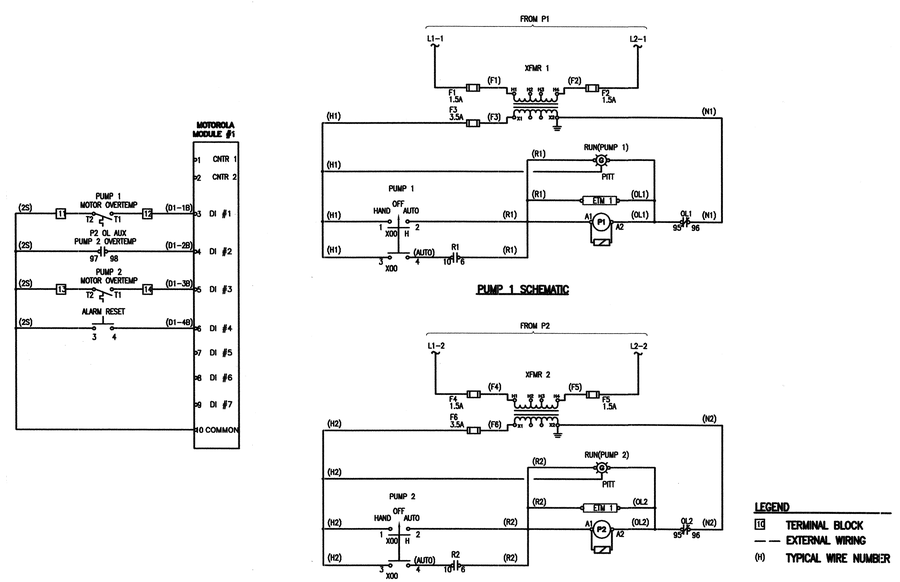
REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION–CABINET DETAILS SUPPL. DWG. 2177 JULY 2005



CONTROL SCHEMATIC

* REFER TO SPECIFICATIONS FOR EQUIPMENT MANUFACTURER

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – MOTOR SCHEME SUPPL. DWG. 2180 JULY 2005



PUMP 1 SCHEMATIC

PUMP 2 SCHEMATIC

CONTROL SCHEMATIC

* REFER TO SPECIFICATIONS FOR EQUIPMENT MANUFACTURER

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION – MOTOR SCHEME SUPPL. DWG. 2181 JULY. 2005

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S INITIALS — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID E. BISHOP, NEW MEXICO, 14694, REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
		REVISIONS	

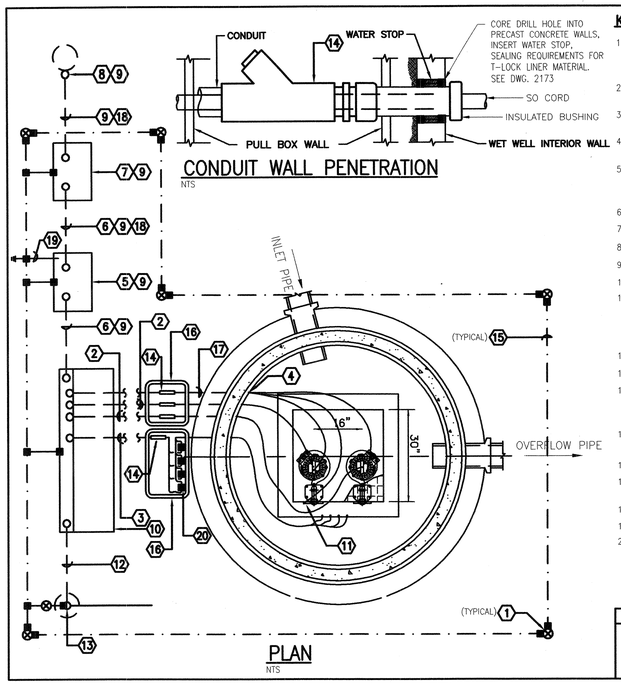
DESIGNED BY – NKB DATE – 06/05
DRAWN BY – PVL DATE – 06/05
CHECKED BY – DEB DATE – 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
LIFT STATION ELECTRICAL #1

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

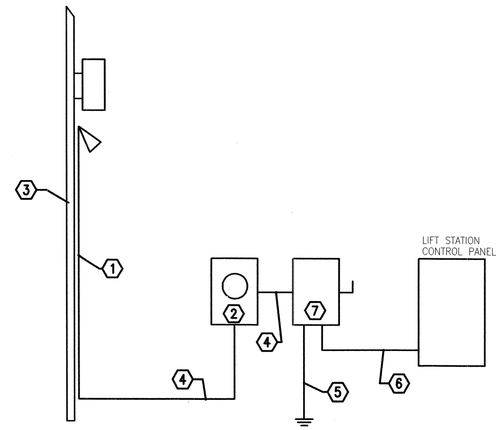
City Project No. 747881
County Project No. TS01-20
Zone Map No.
Sheet 24 Of 25



KEYED NOTES

1. GROUND ROD, 3/4" X 10'-0". ALL CONNECTION SHALL BE CADWELD. EACH GROUND ROD TO BE ACCESSIBLE BY MEANS OF A TRAFFIC RATED MONUMENT LID. LID WILL HAVE THE WORDS "GROUD WELL" CAST INTO LID.
2. PVC COATED RIGID CONDUIT WITH (1) 5 CONDUCTOR SO CORD SUPPLIED WITH PUMPS.
3. PVC COATED RIGID CONDUIT, WITH (1) 6-CONDUCTOR SO CORD SUPPLIED WITH EACH LEVEL SWITCH. (TOTAL 4 SWITCHS)
4. WET WELL WALL PENETRATION FOR ENLARGED VIEW SEE DETAIL ON THIS SHEET.
5. SERVICE DISCONNECT, HEAVY DUTY, NEMA 3R, 30A/3P, 480 VOLT FUSIBLE. SIZE FUSES PER EQUIPMENT MANUF. RECOMMENDATION. LOCKABLE COVER AND LOCKABLE SWITCH IN ON AND/OR OFF POSTION.
6. SERVICE CONDUIT AND CONDUCTOR - 4#6, 1#10 GROUND, 1" C.
7. METER ENCLOSURE PER PNM REQUIREMENTS. PNM DWG. MS-2-6.0.
8. SERVICE RISER PER PNM REQUIREMENTS. PNM DWG. DS-4-9.5.
9. BASED ON 480 VOLT, 3 PHASE SERVICE AND CONNECTED LOAD.
10. LIFT STATION CONTROL PANEL.
11. MAN HOLE INTRUSION LIMIT SWITCH, SPDT, HEAVY, DUTY, CLASS 1, DIVISION II, TOP PLUNGER, 1NO, 1NC CONTACTS, SEALED MAGNET ACTIVATED SWITCH. INSTALL ON ANGLE IRON MOUNTED ON LARGE MAN HOLE COVER. USE ONLY SS316 HARDWARE AND NUTS. BOLTS OR SCREWS.
12. 1-1/2"C, (1) 1/2" HELIAX TRANSMISSION LINE.
13. ANTENNA MAST PER SUPPL. DWG. 2178.
14. CROUSE-HINDS CGSP SEALING CORD AND CABLE FITTING PROVIDED BY THIS CONTRACTOR. SIZED FOR CORD AND CONDUIT. SEALING COMPOUND WILL BE PROVIDED BY COA.
15. 1/0 BARE STRANDED COPPER GROUND CONDUCTOR. 2'-0" MIN. BURY. ALL CONNECTION SHALL BE CADWELD.
16. TRAFFIC RATED BOX AND COVER PER SUPPL. DWG. 2179.
17. 1" PVC COATED RIGID CONDUIT WITH 14/2 SO CORD TO INTRUSION ALARM SWITCH AND 2-12/4 SO CORD MOTOR OVERLOADS.
18. 4#6 IN 1" CONDUIT.
19. GROUND PER NEC.
20. PROVIDE 4-6 POLE TERMINAL BLOCKS MOUNTED TO SIDE OF BOX ON MOUNTING TRACKS. TERMINATE CONDUCTORS FROM LEVEL SWITCHES ON ONE SIDE AND CONTINUE LEVEL SWITCH CIRCUIT FROM OTHER SIDE TO CONTROL PANEL.

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION - ELECTRIC PLAN SUPPL. DWG. 2175 JULY 2005

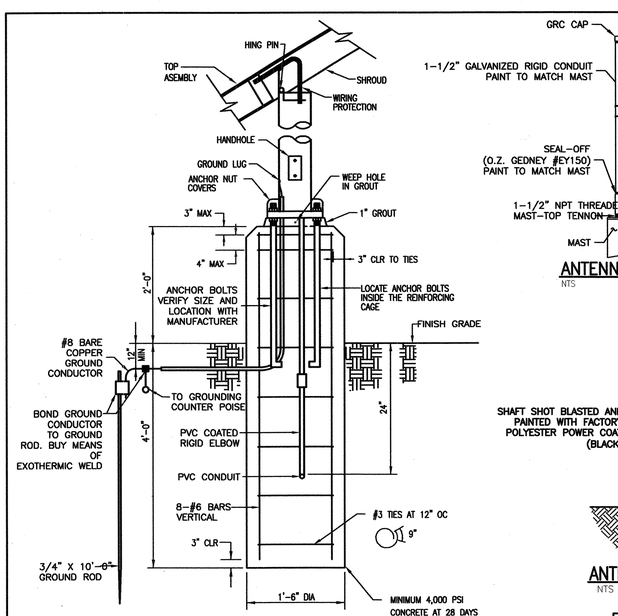


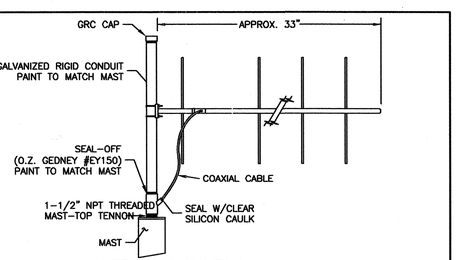
KEYED NOTES

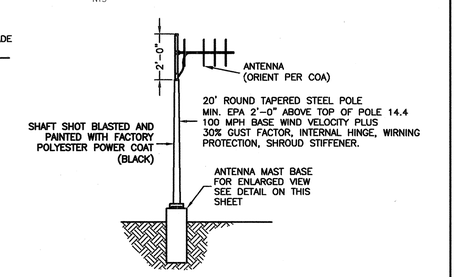
1. SERVICE RISER PER PNM REQUIREMENTS. PNM DWG. DS-4-9.5.
2. METER ENCLOSURE PER PNM REQUIREMENTS. PNM DWG. MS-2-6.0.
3. NEW POLE WITH TRANSFORMERS. COORDINATE INSTALLATION WITH PNM.
4. 4#6 IN 1" CONDUIT.
5. GROUND PER NEC.
6. SERVICE CONDUIT AND CONDUCTOR - 4#6, 1#10 GROUND, 1" C.
7. SERVICE DISCONNECT, HEAVY DUTY, NEMA 3R, 30A/3P, 480 VOLT FUSIBLE. SIZE FUSES PER EQUIPMENT MANUF. RECOMMENDATION. LOCKABLE COVER AND LOCKABLE SWITCH IN ON AND/OR OFF POSTION.
8. BASED ON 480 VOLT, 3 PHASE SERVICE AND CONNECTED LOAD.

LOAD SUMMARY	
AREA "H" LIFT STATION 2-PUMPS EACH AT 3.4	6.8 KVA
TOTAL	6.8 KVA
8.2 AMPS AT 480/277V	
MINIMUM SERVICE CAPACITY 125% X TOTAL EXISTING LOAD	8.5 KVA
11 AMPS AT 480/277V-3Φ-4W	
MINIMUM RECOMMENDED SERVICE	30 AMPS

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION - POWER RISER AND LOAD SUMMARY SUPPL. DWG. 2182 JUNE 2005



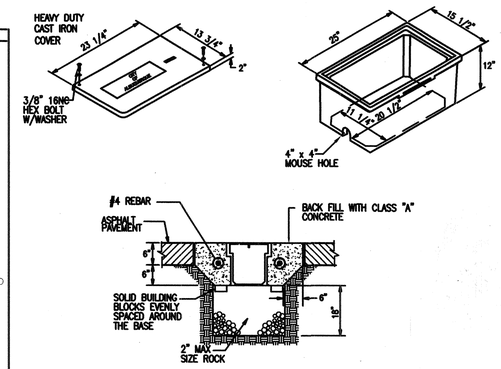




REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION - ANTENNA SUPPL. DWG. 2178 JULY 2005

LEGEND FOR ELECTRICAL SCHEMATICS

SYMBOLS	DESCRIPTION
	CIRCUIT BREAKER
	MAINTAINED SELECTOR SWITCH
	SWITCH
	MOMENTARY PUSH-BUTTON SWITCH, NORMALLY CLOSED
	LIQUID LEVEL SWITCH
	LIMIT SWITCH
	OVERLODE/OVERTEMP ELEMENT
	RELAY, CONTACTOR, OR TIMER CONTACT, NORMALLY OPEN
	RELAY, CONTACTOR, OR TIMER CONTACT, NORMALLY CLOSED
	RELAY, CONTACTOR, OR TIMER COIL
	MOTOR
	INDICATOR LAMP (R=RED) (G=GREEN)
	FIELD DEVICE TERMINATION
	EXTERNAL CONDUIT/CONDUCTORS
	INTERNAL WIRING
	TRANSFORMER
	TEMPERATURE ACTIVATED SWITCH
	GROUND ROD
	EXOTHERMIC CONNECTION
	UNDERGROUND COUNTERPOISE CONDUCTOR



PULL BOX NOTES:

1. MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI, FRP.
2. SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE (255 PSI).
3. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS.
4. PULL BOX TYPE AND LOGO TO BE APPROVED BY THE ENGINEER.

REVISIONS	CITY OF ALBUQUERQUE SEWER LIFT STATION - PULL BOX SUPPL. DWG. 2179 JULY 2005

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S FIELD VERIFICATION BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DAVID E. BISHOP NEW MEXICO 14894 REGISTERED PROFESSIONAL ENGINEER
06/21/05

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY - NKB DATE - 06/05
DRAWN BY - PVL DATE - 06/05
CHECKED BY - DEB DATE - 06/05

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES

TITLE: FOOTHILL/BRIDGE INFILL AREA SEWER AND WATER IMPROVEMENTS
LIFT STATION ELECTRICAL #2

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 747881
County Project No. TS01-20
Zone Map No.
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