



BERNALILLO COUNTY OF NEW MEXICO

PUBLIC WORKS DIVISION

TECHNICAL SERVICES DEPARTMENT

CONSTRUCTION PLANS
FOR

NORTH VALLEY AREA I PHASE 2 AND AREA J SEWER PROJECT CABALLERO NORTE GRAVITY SYSTEM

EPA STAG XP-976162

COUNTY PROJECT NO. __

COA PROJECT NO. 763581

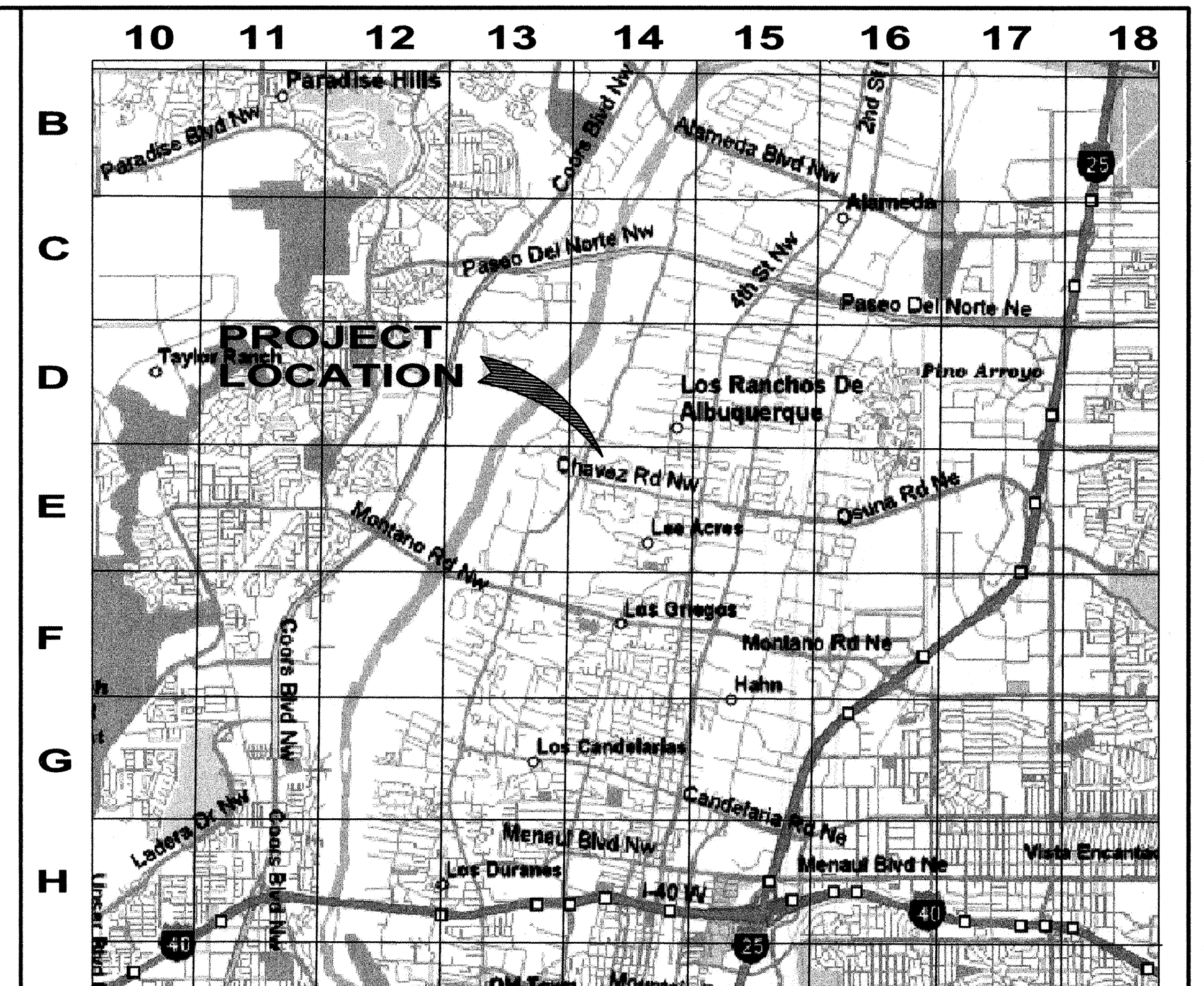
AUGUST 2005

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17	C-109	PRIVATE DRIVE LINE D P&P STA. 10+00 TO STA. 12+65, NABOR ROAD LINE C P&P STA. 3+90 TO 8+00 DELETED
18	C-110	VILLAGE BARN PLAN AND PROFILE STA. 10+00 TO STA. 14+00 DELETED
19	C-111	VILLAGE BARN PLAN AND PROFILE STA. 14+00 TO STA. 17+50

Acknowledge receipt
APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 3/02/2007

I, THE UNDERSIGNED, 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 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 INCURRED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DATA IS TO BE FIELD VERIFIED PRIOR TO USE IN THESE PROJECTS.



VICINITY MAP
NO SCALE

APPROVED FOR CONSTRUCTION

Juan P. V. S.
VILLAGE OF LOS RANCHOS

Sept. 1, 2005
DATE

P. D. G. S. R.
BERNALILLO COUNTY PWD

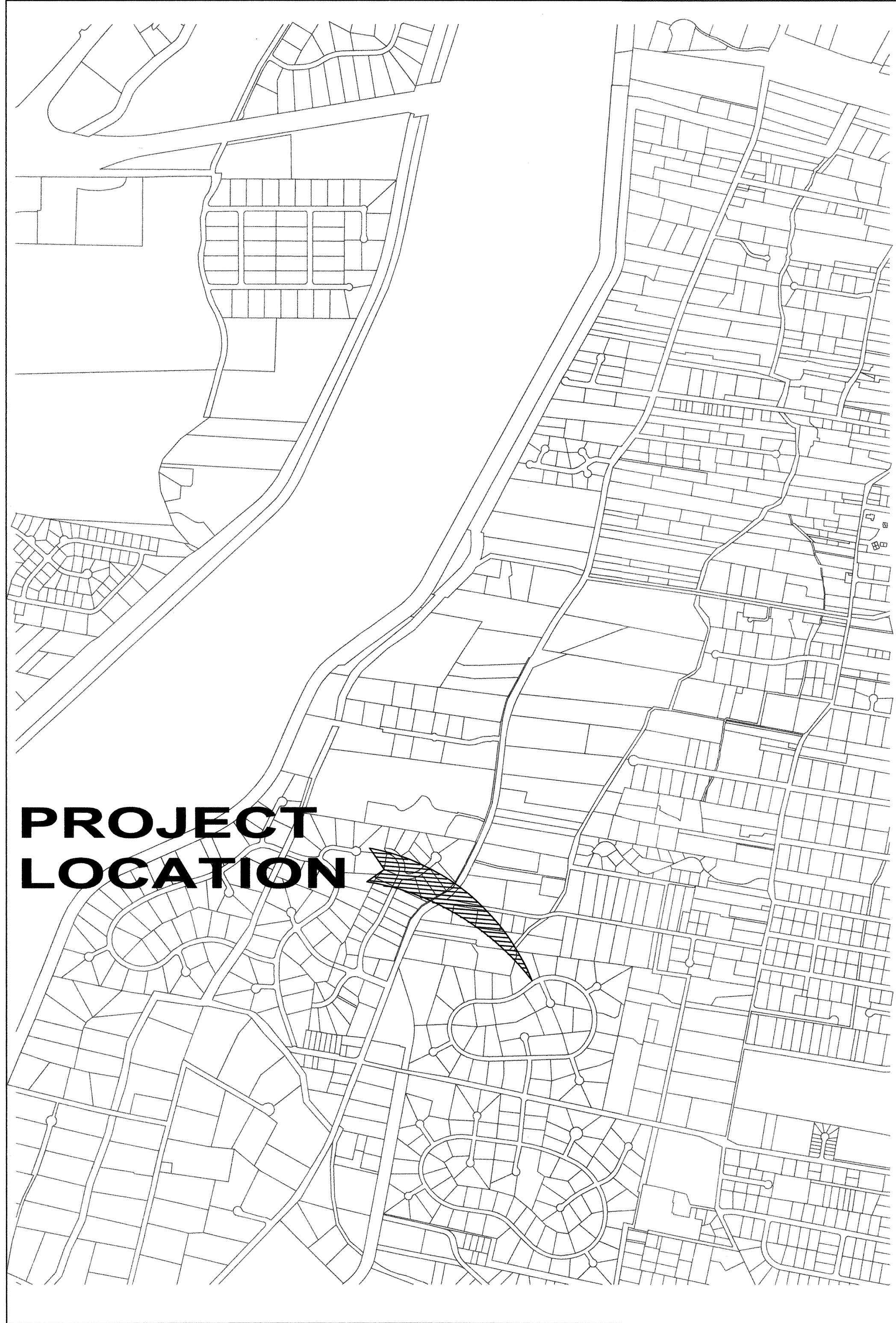
2 Sep 05
DATE

BOYLE ENGINEERING CORPORATION
consulting engineers

6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110 (505) 883-7700

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	All	AS-BUILT	11/16/06				
ENGINEERS STAMP & SIGNATURE				APPROVALS	ENGINEER	DATE	* * * * *
				DRC Chairman	William J. Balch	9-28-05	APPROVED FOR CONSTRUCTION
				Transportation	William J. Balch	9/28/05	
				Water/Wastewater	William J. Balch	9/14/05	
				Hydrology			
				C.I.P.			
				Constr. Mngmt.			City Engineer
				Constr. Coord.			
				City Project No.		763581	Sheet 1 of 17/19

DWG: B:\Albuquerque\B17\132\040\PlanSet\G-002-048.dwg USER: young
DATE: Aug 28, 2005 10:44am V-PARCLS IMAGES:



LOCATION MAP
1:800

CITY ZONE MAP E-14



LEGEND

PROPOSED

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

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N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

EXISTING

SS36

C

2" HP

CATV

Fire Hydrant

Reducer

SAS Service Connection

Tees

Bends

GM

PP

SP

TC

Telephone Box

Block Wall

Chain Link Fence

Field Fence

Right of Way Lines

Property Lines (Side)

Construction Horiz. & Vert. Control

Manhole

Water Meter or Well Pump

Flow Direction

Miscellaneous Utility

Plug or Cap

Cross Section of Culvert

Light Pole

Electrical Pole

Electrical Transformer Pad

Monument

Permanent Property Corners, etc.

Finished Floor Elevation

Septic Tank

Cable Drop Pedestal

Cable Pedestal

Cable Ground Location

DESCRIPTION

SANITARY SEWER LINE W/ SIZE

UNDERGROUND TELEPHONE

GAS LINE W/ SIZE & TYPE

CABLE TELEVISION LINE

FIRE HYDRANT

REDUCER

SAS SERVICE CONNECTION

TEES

BENDS

GAS METER

POWER POLE

TRAFFIC LIGHT

TRAFFIC CONTROL BOX

TELEPHONE BOX

BLOCK WALL

CHAIN LINK FENCE

FIELD FENCE

RIGHT OF WAY LINES

PROPERTY LINES (SIDE)

CONSTRUCTION HORIZ. & VERT. CONTROL

MANHOLE

WATER METER OR WELL PUMP

FLOW DIRECTION

MISCELLANEOUS UTILITY

PLUG OR CAP

CROSS SECTION OF CULVERT

LIGHT POLE

ELECTRICAL POLE

ELECTRICAL TRANSFORMER PAD

MONUMENT

PERMANENT PROPERTY CORNERS, ETC.

FINISHED FLOOR ELEVATION

SEPTIC TANK

CABLE DROP PEDESTAL

CABLE PEDESTAL

CABLE GROUND LOCATION

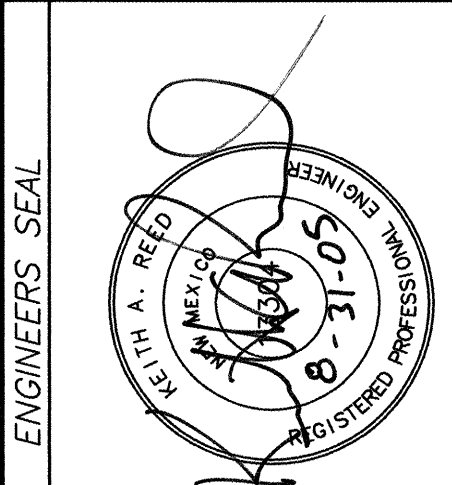
I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER 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.

BOYLE ENGINEERING CORPORATION
consulting engineers
6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110 (505) 883-7700

BERNALILLO COUNTY PUBLIC WORKS DIVISION TECHNICAL SERVICES DEPARTMENT			
TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT CABALLERO NORTE GRAVITY SYSTEM LOCATION MAP AND INDEX OF SHEETS			
Design Review Committee APPROVED SEP 28 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval	Last Design Update	Mo./Day/Yr. Mo./Day/Yr.
City Project No. 763581	Zone Map No. E-14	Sheet 2	of 17

AL-B17-132-02

G-002



11/06	AS-BUILT	REMARKS	DATE
NO.	DATE	REVISIONS	DESIGN
DESIGNED BY	CAB	DATE	APR 05
DRAWN BY	CAM	DATE	APR 05
CHECKED BY	KAR	DATE	APR 05

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES		ACS Aluminum Cap stamped "6-E13, 1991"		CONTRACTOR	
DATE		In Street @ 5100 Rio Grande Blvd. N.W.		WORK BY	
NO.		Southeast quadrant		INSPECTED BY	
		Geographic Position (NAD 1927), in feet		ACCEPTANCE BY	
		N.M. State Plane Coordinates (Central Zone)		DRAWINGS BY	
		X = 377204.63, Y = 1510073.49		CORRECTED BY	
		Elevation (Adjusted NAVD86) = 4977.37, in feet		MICRO-FILM INFORMATION	
				RECORDED BY	
				NO.	

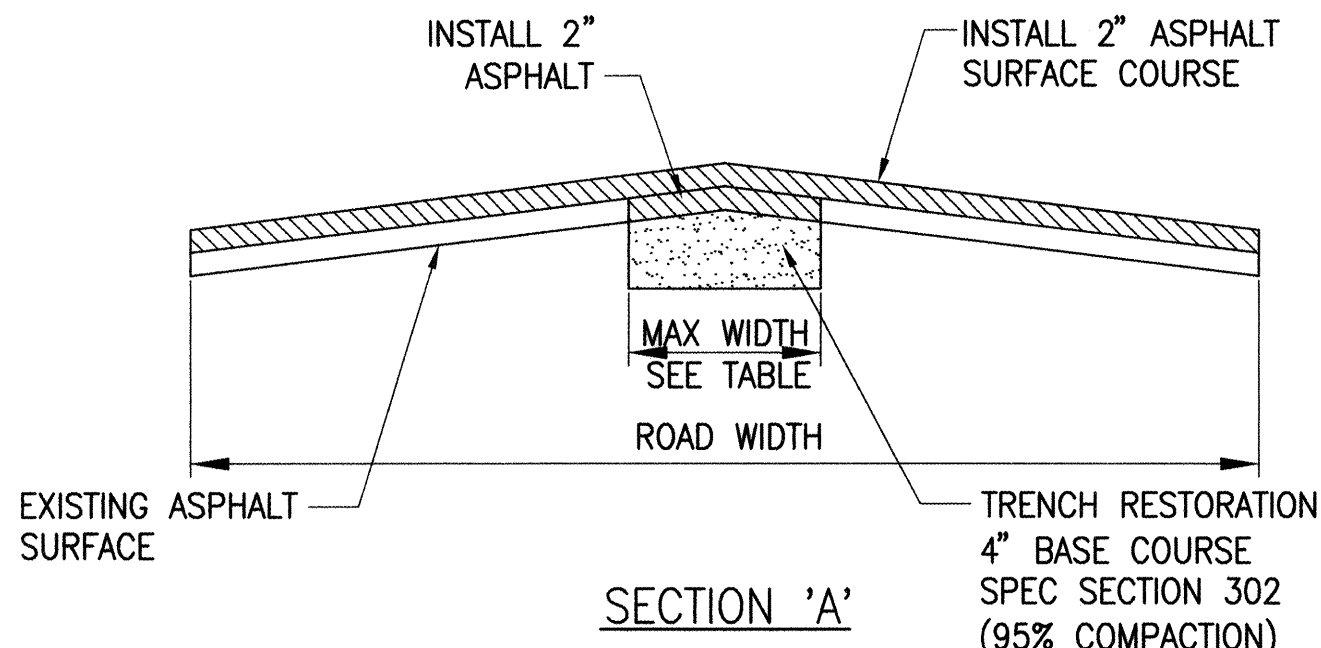
1. ALL WORK DETAILED ON THESE PLANS IS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 INCLUDING UPDATES 1 THROUGH 7 (REFERRED TO HEREAFTER 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. A MINIMUM OF TWO (2) WORKING DAYS, BUT NOT MORE THAN TWENTY (20) WORKING DAYS PRIOR TO ANY EXCAVATION AT A PARTICULAR LOCATION, THE CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE ADMINISTRATOR, FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT IN WRITING A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN THE RIGHT-OF-WAY.
4. 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.
5. 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.
6. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FROM BASELINES, GRADES AND BENCH MARKS SHOWN ON THE PLANS, OR AS DETERMINED IN THE FIELD BY THE ENGINEER. RE-ESTABLISHMENT OF LOST, MISSING, OR DISTURBED REFERENCE POINTS SHALL BE PERFORMED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. 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 BEGIN WITHIN SEVEN (7) DAYS OF TRENCH CLOSURE OR LIQUIDATED DAMAGES OF \$500 PER CALENDAR DAY WILL BE ASSESSED FOR EACH CALENDAR DAY THAT PAVEMENT REPLACEMENT IS DELAYED. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE CONSIDERED INCIDENTAL TO THE PIPE LAYING PROCESS THEREFORE NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR.
8. 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 ALLOWED ONLY AS APPROVED BY THE VILLAGE. EXCESS FILL SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR.
9. 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 ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
10. LIMIT CONSTRUCTION ACTIVITIES TO WITHIN PERMANENT AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY SHOWN ON DRAWINGS.
11. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW (MILL) CUT EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
12. 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.
13. ALL UTILITY LINES 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. ANY DAMAGE TO ANY EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE 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. NO ADDITIONAL COMPENSATION SHALL BE REWARDED FOR RESOLVING THESE CONFLICTS.
14. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME, USING PATCHING COA DETAIL 2465, AT HIS OWN EXPENSE.
15. ALL ABANDONED UTILITY LINES THAT ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
16. IN ADVANCE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHETHER OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION.
17. ALL WATER VALVE BOXES AND SEWER MANHOLES WITHIN PAVEMENT AREAS ARE TO BE ADJUSTED TO FINISH GRADE PER C.O.A. STANDARD DETAILS. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
18. THE CONTRACTOR SHALL COORDINATE ANY WATER VALVE SHUT-OFF OPERATION WITH THE WATER SYSTEMS DIVISION (857-8200) NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS DURING CONSTRUCTION.
19. CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. EXPOSED CABLE IS TO BE SUPPORTED EVERY 15' (MIN.) CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER. COST FOR SAID WORK WILL BE CONSIDERED INCIDENTAL TO ALL OTHER COSTS.

20. THE CONTRACTOR SHALL SUPPORT AND MAINTAIN THE INTEGRITY OF ALL GAS LINES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. GAS LINES THAT MUST BE RELOCATED ARE TO BE COORDINATED WITH PNM GAS AND WILL BE PAID UNDER THE UTILITY RELOCATION ALLOWANCE.
21. ALL TEMPORARY WATERLINE AND TEMPORARY CAPPING AND BLOCKING OF EXISTING WATERLINE REQUIRED FOR THE INSTALLATION OF ANY TEMPORARY WATERLINE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
22. SPECIAL NOTICES:
 - a. 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) CALENDAR DAYS, NOT LESS THAN FOUR (4) CALENDAR 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.
23. SURVEY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE RESTORED AT CONTRACTOR'S EXPENSE. NOTIFY MONUMENT OWNER 48 HOURS PRIOR TO ANY WORK AROUND EXISTING MONUMENTS.
24. MINIMUM DENSITY FOR BACKFILL SHALL BE 95% ASTM D1557 FOR SUBGRADE AND 95% ASTM D1557 FOR BACKFILL. DENSITY TEST MINIMUM FREQUENCY SHALL BE AT 200 FT. INTERVALS FOR EACH LIFT.
25. SERVICE LINE STUBOUT LOCATIONS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD WITH APPROVAL OF THE ENGINEER, WITHOUT ANY ADDITIONAL COMPENSATION.
26. CONTRACTOR SHALL NOTIFY THE VILLAGE OF LOS RANCHOS FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED A MINIMUM OF TWO DAYS PRIOR TO CONSTRUCTION. CONTACT THE VILLAGE AT 344-6582 FOR INFORMATION.
27. PLANS MAY NOT SHOW ALL FITTINGS AND BENDS REQUIRED FOR THE INSTALLATION OF ALL SERVICE LINES. ADDITIONAL BENDS AND FITTINGS ARE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF ALL SEWER LINES.
28. CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING DURING CONSTRUCTION. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING LANDSCAPING AND SHALL REPAIR OR REPLACE SAME.
29. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
30. THE CONTRACTOR SHALL COORDINATE WITH APS TO ACCOMMODATE SCHOOL BUS SCHEDULES ON ALL DESIGNATED SCHOOL BUS ROUTES.
31. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY TRAFFIC SIGNS AND PAVEMENT MARKINGS THAT ARE DAMAGED OR REMOVED.
32. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ANY SPEED HUMPS THAT MAY BE DAMAGED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION. ANY PAVEMENT MARKINGS ON SPEED HUMPS SHALL BE REPLACED.
33. GROUND WATER MAY BE ENCOUNTERED THROUGHOUT THE PROJECT AREA. SOIL TESTING WAS DONE DURING APRIL 2005. THE FOLLOWING LOCATIONS ENCOUNTERED GROUND WATER AT THE DEPTHS INDICATED:
 - a) RIO GRANDE BLVD D=19.5 FT
 - b) EL ALHAMBRA CIR D>20.5 FTTHE GEOTECHNICAL REPORT IS AVAILABLE TO THE CONTRACTOR UPON REQUEST.

1. ANY WORK IS TO BE DONE 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. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.
6. 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.
7. 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.
8. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO M.R.G.C.D.
9. 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".

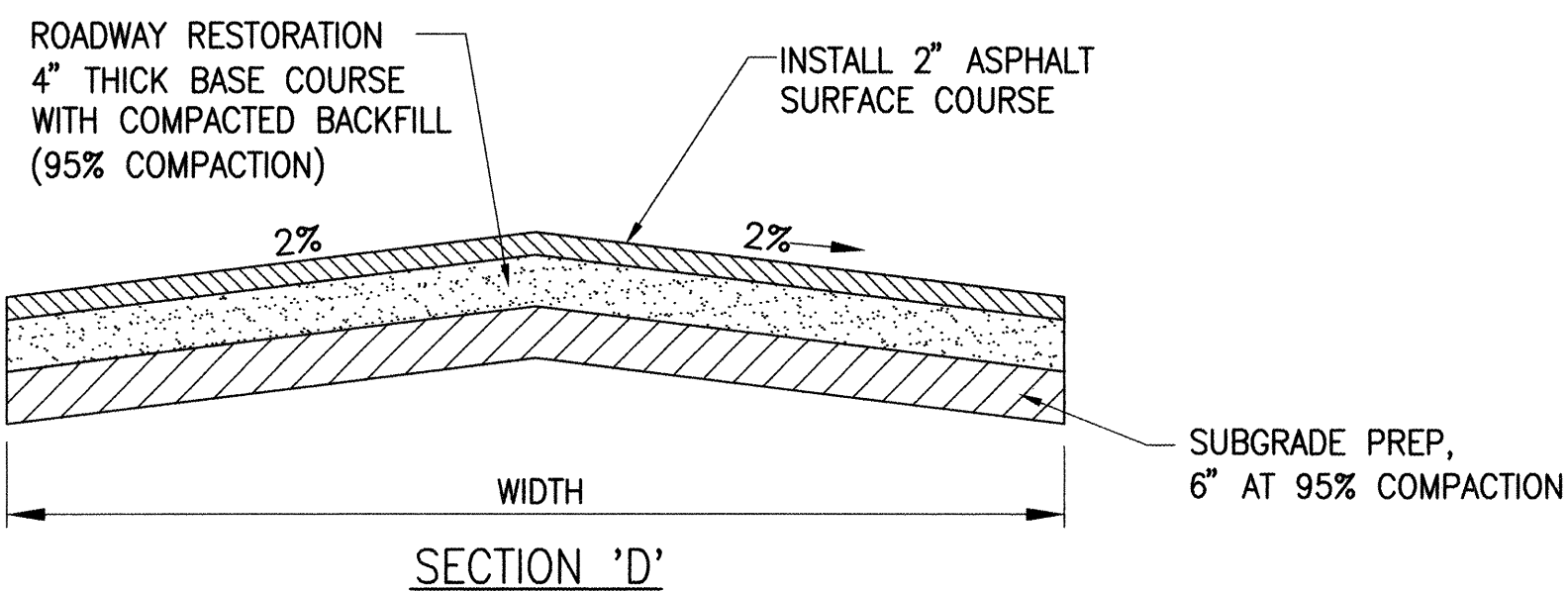
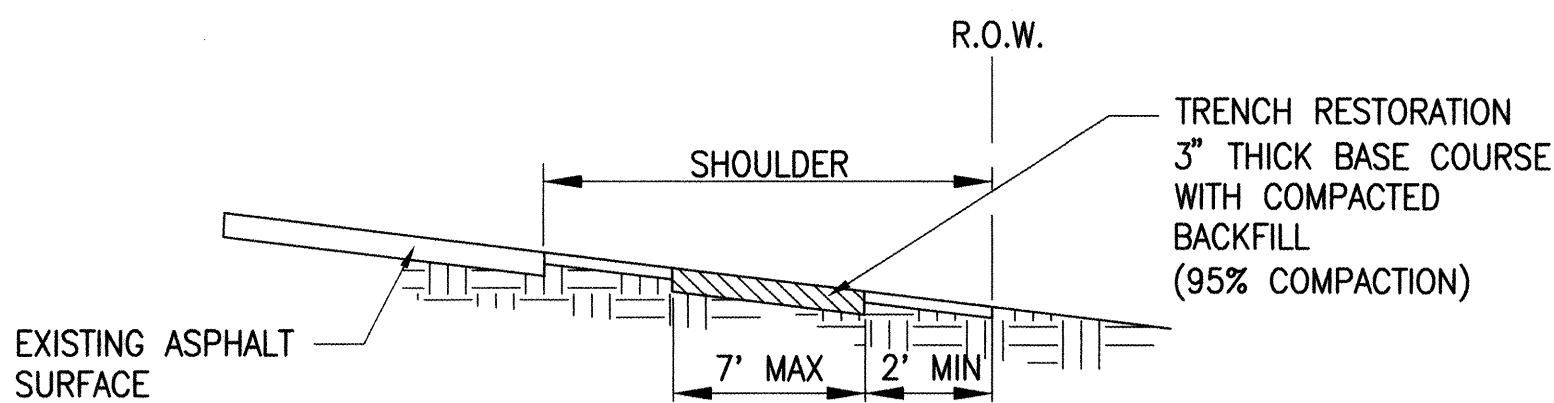
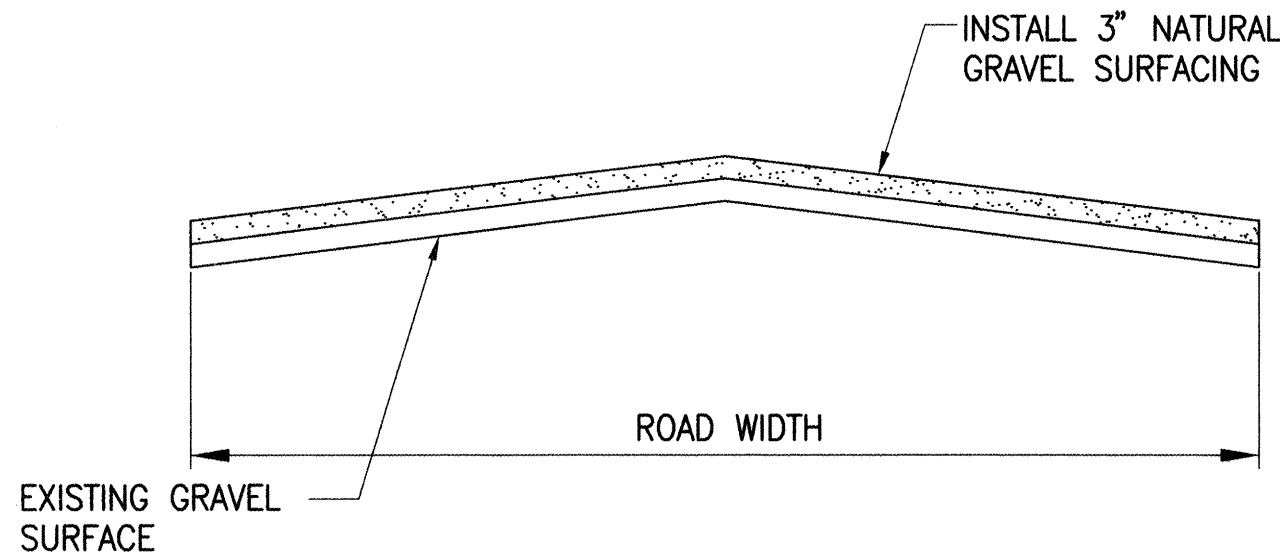
1. IF ANY THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS ARE DISCOVERED DURING CONSTRUCTION, WORK WILL CEASE IMMEDIATELY AND THE EPA WILL BE NOTIFIED IN ORDER THAT APPROPRIATE MEASURES CAN BE TAKEN IN ACCORDANCE WITH THE ENDANGERED SPECIES ACT.
2. CONSTRUCTION MATERIAL AND WASTE PRODUCTS, INCLUDING MACHINERY LEAKING, 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, AT (505)827-4044, 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.

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION COMPANY. I HAVE REVIEWED THE RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE DESIGNER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I DO NOT GUARANTEE THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION COMPANY AND THEREFORE, I WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS PART OF THE CONCLUDED INFORMATION PROVIDED BY OTHERS. I AM NOT PROVIDING INFORMATION INCLUDING VERBAL AND/OR ORAL INFORMATION, SUCH AS, BUT NOT LIMITED TO, VERIFIED PRIOR TO USE ON FUTURE PROJECTS.



NOTE:
SANDY SOILS WILL BE ENCOUNTERED THROUGHOUT THE PROJECT AND IT IS THE CONTRACTORS RESPONSIBILITY TO ACCOUNT FOR THIS.

TRENCH DEPTH (FEET)	MAX. TRENCH WIDTH (FEET)
4	4
5	6
6	9
7	USE SECTION 'D'



NOTE:
ROAD WILL BE INSTALLED AT SAME LINE AND GRADE AS EXISTING ROAD. CONTRACTOR SHALL TAKE CROSS SECTIONS OF EXISTING ROAD AT 25' INTERVALS PRIOR TO EXCAVATION FOR SEWER LINE.
THIS WORK IS INCIDENTAL TO THE PAVING WORK; THEREFORE, NO ADDITIONAL PAYMENT SHALL BE MADE.

ROADWAY REHABILITATION

Sheet	Street or Branch Name	Street Width (Feet)	Sewer Length (Feet)	Pavement Section Type	Striping (Y=Yes/N=No)	Access Type E=Easement L=License/Permit ROW=Right-of-Way	Comments
C-101	Chavez Ave	30	-	D	Y	ROW	-
C-101	Caballero Parkway	30	600	D	N	E	-
C-102 to C-107	El Alhambra Circle; Cul-de-sac 1,2 &4	20	4080	D	N	E	-
C-107	Cul-de-sac 3	20	150	B	N	E	-
C-108 to C-109	Nabor Road - Line C	30	850	D	N	ROW/L	-
C-109	Private Drive - Line D	15	275	B/D	N	E	-
C-106	El Alhambra Circle - Line E	20	60	D	N	E	-
C-103	El Alhambra Circle between MH10 and MH25	20	360	D	N	E	-

EXISTING CONDITIONS

STREET NAME	ASPHALT THICKNESS
CABALLERO PARKWAY	8"
EL ALHAMBRA CIRCLE	8"
NABOR ROAD	5"
CHAVEZ ROAD	5"

LONGITUDINAL CUTS

THE FINAL SURFACE COURSE OF THE ASPHALT CONCRETE PAVEMENT SHALL NOT DEVIATE AT ANY POINT MORE THAN 1/4 INCH FROM THE BOTTOM OF A 10-FOOT STRAIGHTEDGE LAID IN ANY DIRECTION OF THE SURFACE ON EITHER SIDE OF THE ROADWAY CROWN. FAILURE TO MEET THIS REQUIREMENT SHALL NECESSITATE SUFFICIENT SURFACE CORRECTION TO ACHIEVE THE REQUIRED TOLERANCE, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE CONTRACTING AGENCY.

TRANSVERSE CUTS

THE FINAL SURFACE COURSE OF THE ASPHALT CONCRETE PAVEMENT SHALL NOT DEVIATE AT ANY POINT MORE THAN 1/8 INCH FROM THE BOTTOM OF A 10-FOOT STRAIGHTEDGE LAID IN THE DIRECTION OF THE ROADWAY, OR PERPENDICULAR TO THE CUT. FAILURE TO MEET THIS REQUIREMENT SHALL NECESSITATE SUFFICIENT SURFACE CORRECTION TO ACHIEVE THE REQUIRED TOLERANCE, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE CONTRACTING AGENCY.

DRIVEWAY RESTORATION

FOR GRAVEL DRIVES:
INSTALL 3" OF GRAVEL OVER COMPACTED BACKFILL (95% COMPACTION) FOR WIDTH OF TRENCH. PAID FOR AS PAVING SECTION 'C'.

FOR ASPHALT DRIVES:
INSTALL 2" THICK ASPHALT PAVEMENT TYPE 'B' OVER COMPACTED BACKFILL (95% COMPACTION) FOR WIDTH OF TRENCH. PAID FOR AS 2" OVERLAY, COMPLETE IN PLACE.

~~ALL ROADWAY RESTORATION TO EXISTING LINE AND GRADE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.~~

STRIPING REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO SURFACE COURSE CONSTRUCTION.

ASPHALT MATERIAL

ALL ASPHALT SHALL BE CITY OF ALBUQUERQUE TYPE 'C' ARTERIAL (1800# STABILITY MIX)

BASE COURSE MATERIAL

FOR SECTIONS 'A', 'C', AND 'D', BASE COURSE MATERIAL CAN BE RECYCLED ASPHALT, RECYCLED CONCRETE, OR AGGREGATE BASE COURSE COMPLYING WITH CITY OF ALBUQUERQUE SPECIFICATIONS.

WATER VALVE BOX RING AND COVER

ADJUST ALL WATER VALVE BOX RINGS AND COVERS TO FINAL GRADE IN ACCORDANCE WITH COA STANDARD 2326.

EXISTING LANDSCAPING

THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING LANDSCAPING WITHIN OR OUTSIDE OF EXISTING PUBLIC RIGHTS-OF-WAY. LANDSCAPED AREAS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO THE COUNTY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE OR THE DAMAGED LANDSCAPING WILL BE REPLACED BY THE COUNTY AND THE COST DEDUCTED FROM THE CONTRACTOR'S NEXT PAY ESTIMATE.

BOYLE ENGINEERING CORPORATION
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6501 Americas Parkway N.E. Suite 800
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BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
ROAD RESTORATION DETAILS

Design Review Committee SEP 28 2005 DESIGN REVIEW COMMITTEE	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 763581	Zone Map No. E-14	Sheet 4	Of 47 19



LEGEND

5420 ADDRESS

NEW SEWER LINE

EXISTING SEWER LINE

BENCH MARK LOCATION

MANHOLE

SCHEDULE		
STREET	REFER TO SHEET(S)	EXISTING SURFACE
CABALLERO PKWY	C-101	ASPHALT
EL ALHAMBRA CIR (WEST)	C-102 - C-103	ASPHALT
CUL-DE-SAC 1	C-104	ASPHALT
EL ALHAMBRA CIR (EAST)	C-105 - C-106	ASPHALT
CUL-DE-SAC 2	C-106	ASPHALT
CUL-DE-SAC 4	C-107	ASPHALT
CUL-DE-SAC 3	C-107	GRAVEL
NABOR ROAD (LINE C)	C-108 - C-109	ASPHALT
PRIVATE DRIVE (LINE D)	C-109	ASPHALT/ GRAVEL

I, THE UNDERSIGNED, 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 REGISTERED PROFESSIONAL ENGINEER IN THE FORM OF THE CONSTRUCTION DRAWING MARKS 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.

See 7635.82 (future by others) for how these lots are served.

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BERNALILLO COUNTY PUBLIC WORKS DIVISION TECHNICAL SERVICES DEPARTMENT	
TITLE: NORTH VALLEY AREA I PHASE 2 & J SEWER PROJECT CABALLERO NORTE GRAVITY SYSTEM PROJECT LAYOUT	
Design Review Committee SEP 28 2008 DESIGN REVIEW COMMITTEE	City Engineer Approval
City Project No. 763581	Zone Map No. E-14
Sheet 5	Of 17

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	TLC	DATE	NO.	DATE	NO.	DATE	NO.
WORK BY	INSPECTED BY	DATE	NO.	DATE	NO.	DATE	NO.
ACCEPTANCE BY	VERIFICATION BY	DATE	NO.	DATE	NO.	DATE	NO.
DRAWINGS BY	BOYLE	DATE	NO.	DATE	NO.	DATE	NO.
CHECKED BY	BOYLE	DATE	NO.	DATE	NO.	DATE	NO.
RECORDED BY	MICRO-FILM INFORMATION	DATE	NO.	DATE	NO.	DATE	NO.



INVERTED SIPHON DETAIL
SCALE: NTS



CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL EACH BE GIVEN AN INDIVIDUAL PERMIT. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE 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.
4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO 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 CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP 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.
8. 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.
9. 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.
10. 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 CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 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.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. 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.
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

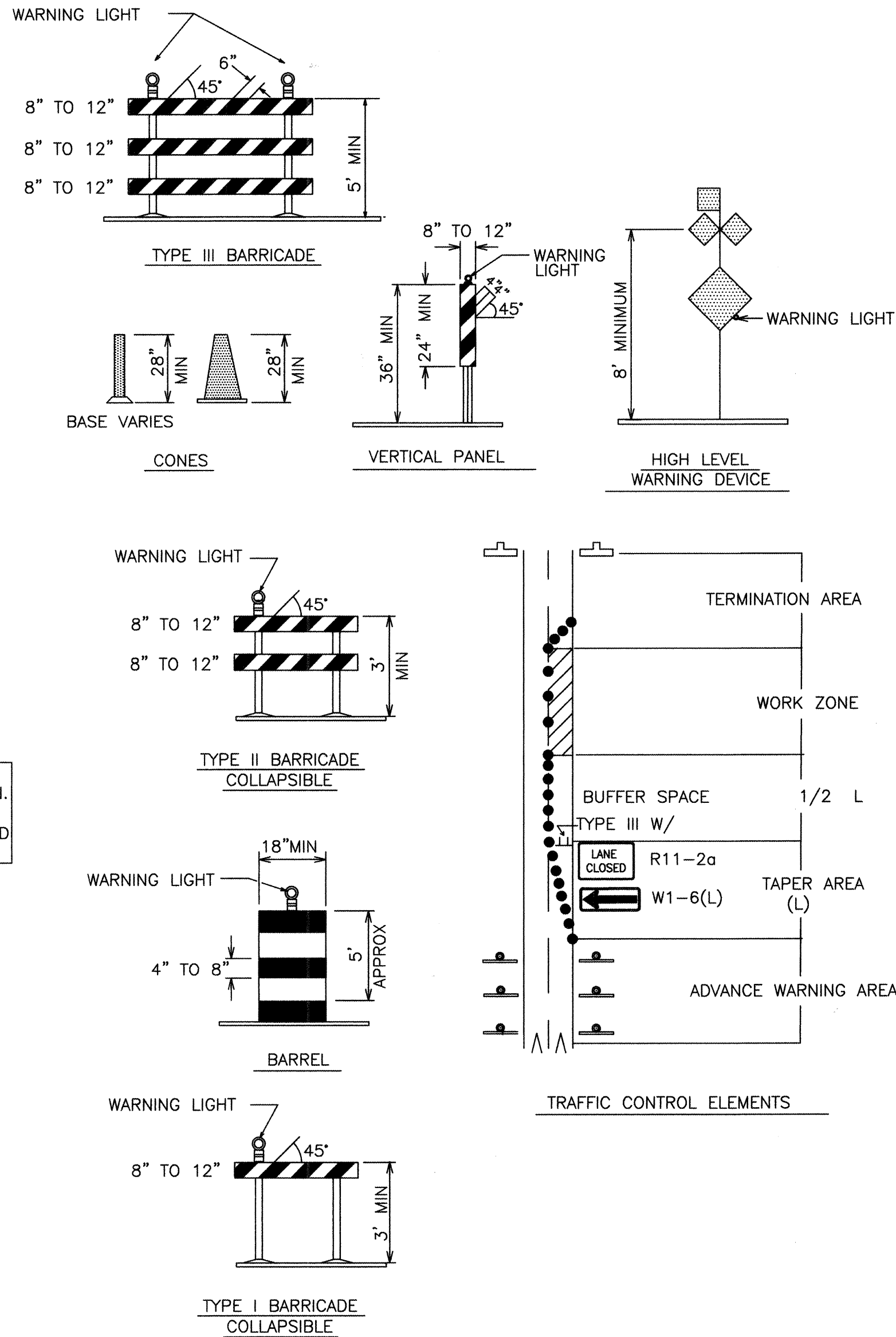
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

28. ALL CONSTRUCTION TRAFFIC CONTROL LOCATED OUTSIDE OF ALBUQUERQUE CITY LIMITS SHALL BE COORDINATED WITH BERNALILLO COUNTY PUBLIC WORKS DIVISION TRAFFIC SECTION. 29. TWO SPECIAL TRAFFIC SIGNS IDENTIFYING TEMPORARY ACCESS TO CABALLERO NORTE DURING CONSTRUCTION ON CABALLERO PARKWAY SHALL BE PLACED ON CHAVEZ ROAD WARNING EASTBOUND AND WESTBOUND TRAFFIC.

THE VILLAGE OF LOS RANCHOS AND



LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW

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

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS		FROM LAST SIGN TO TAPER
	0-20	25-30	
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT

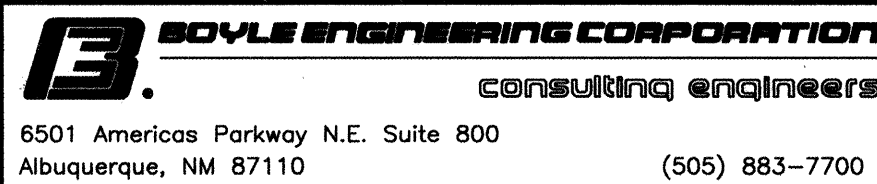
40 MPH OR LESS $L = \frac{WS^2}{60}$

40 MPH OR GREATER $L = W \times S$

L = TAPER LENGTH

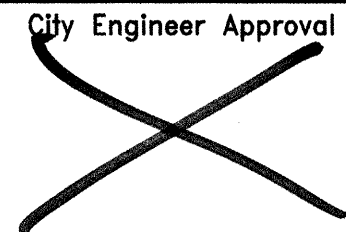
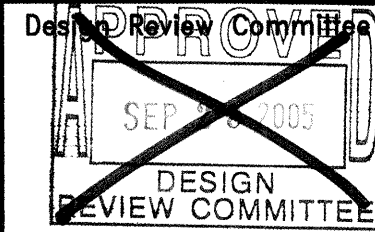
W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH



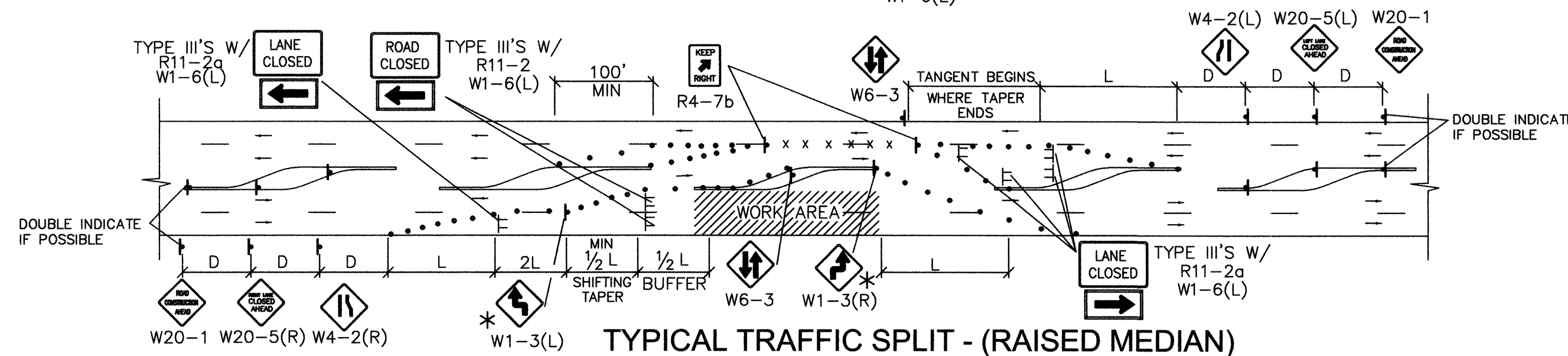
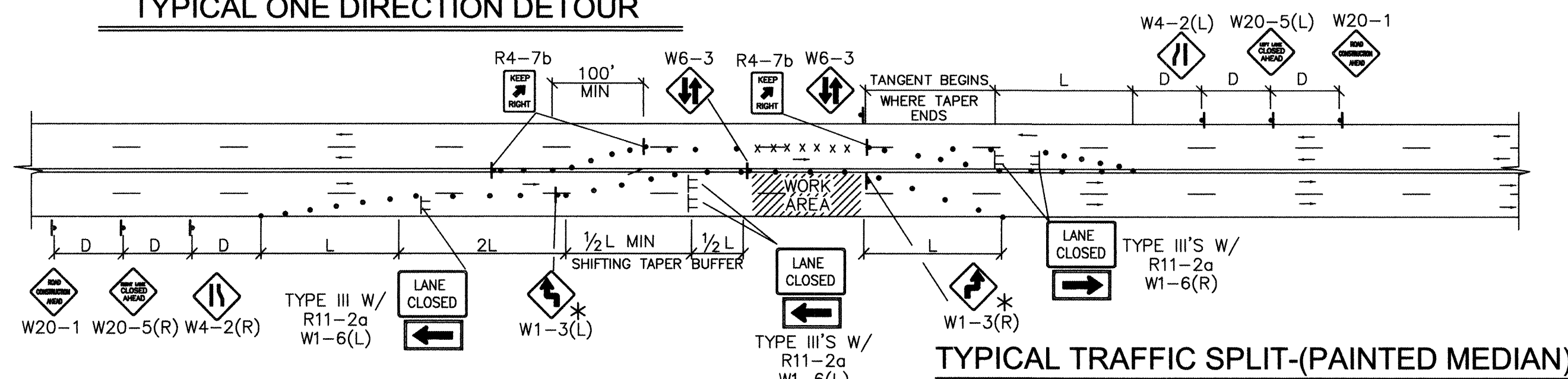
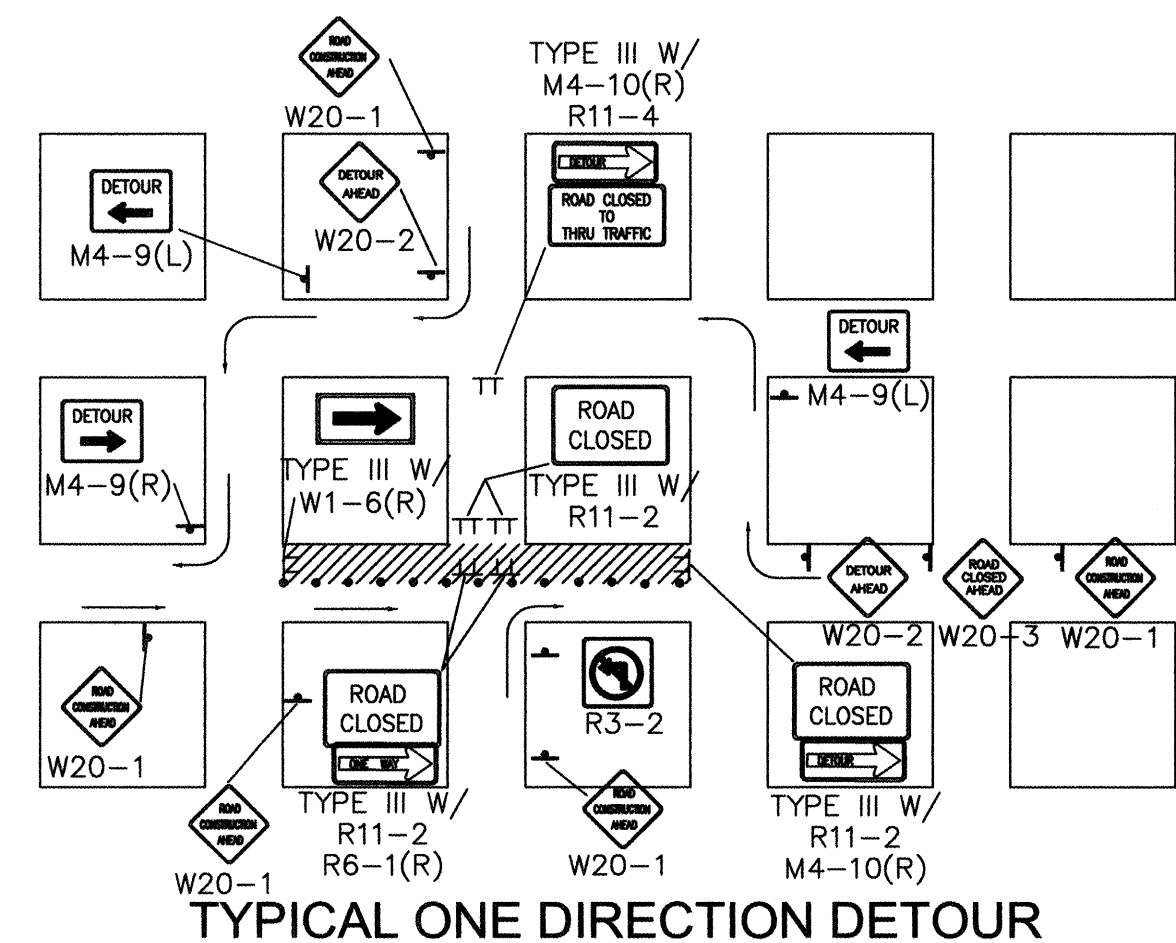
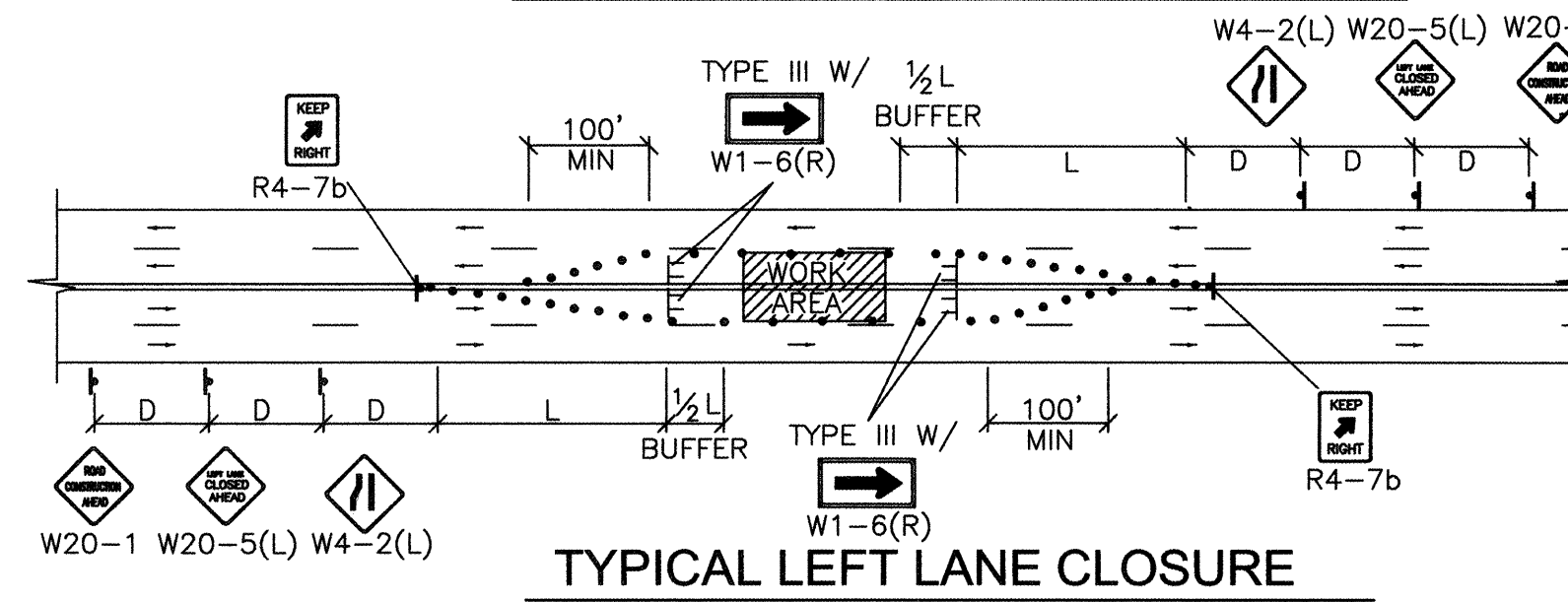
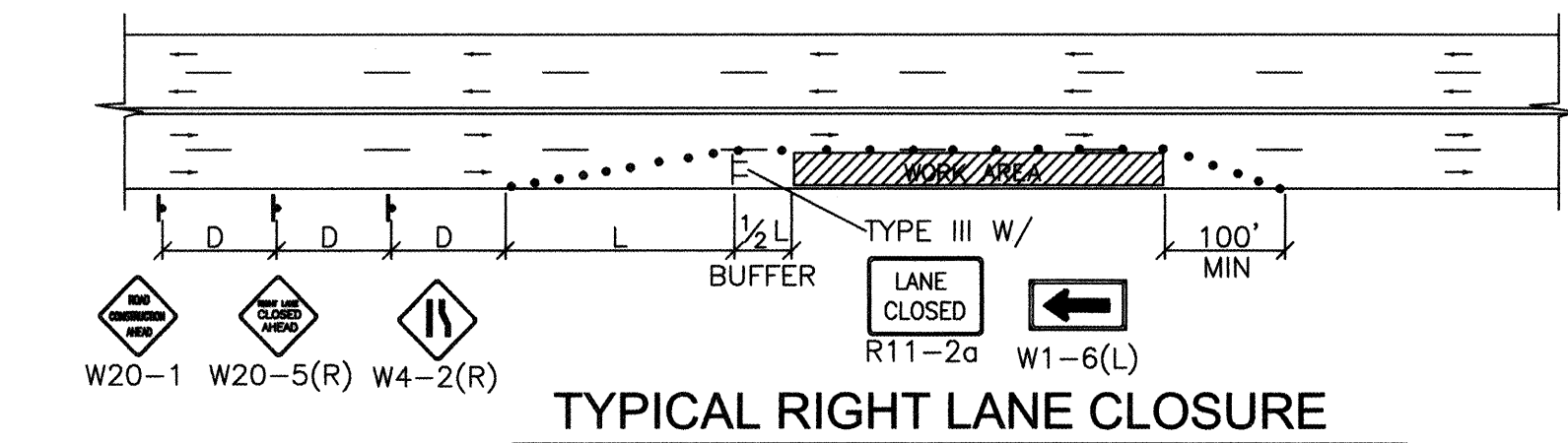
BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

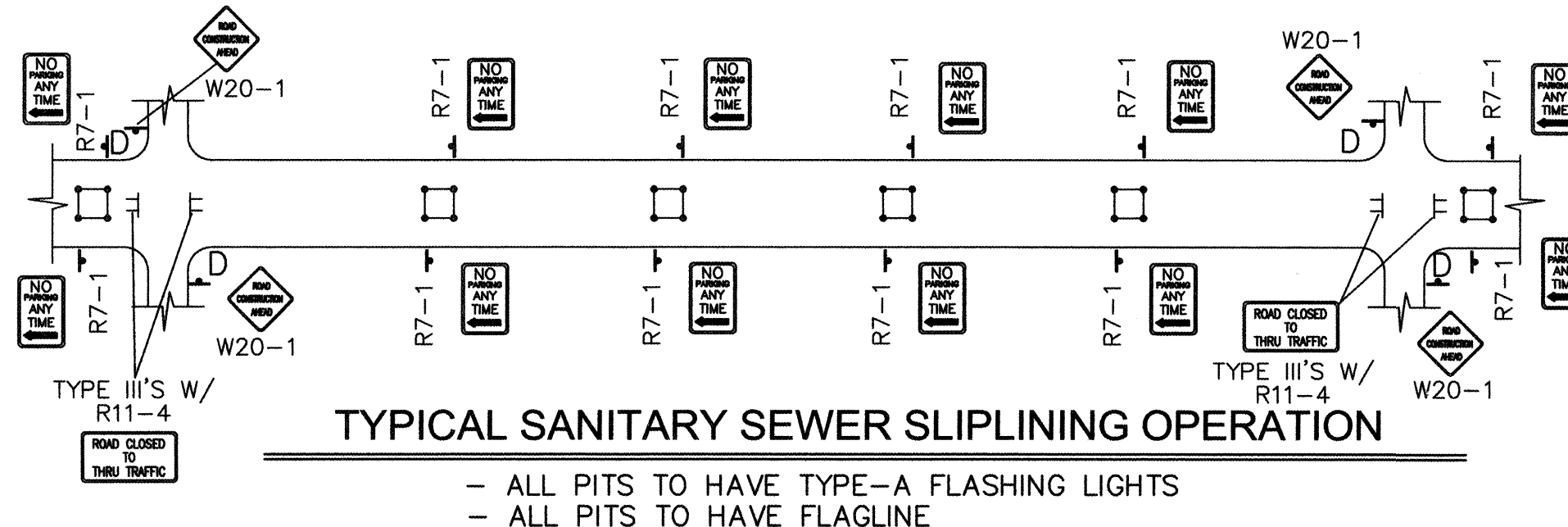


Last Design Update

City Project No. 763581 Zone Map No. E-14 Sheet 7 of 4719



- 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.

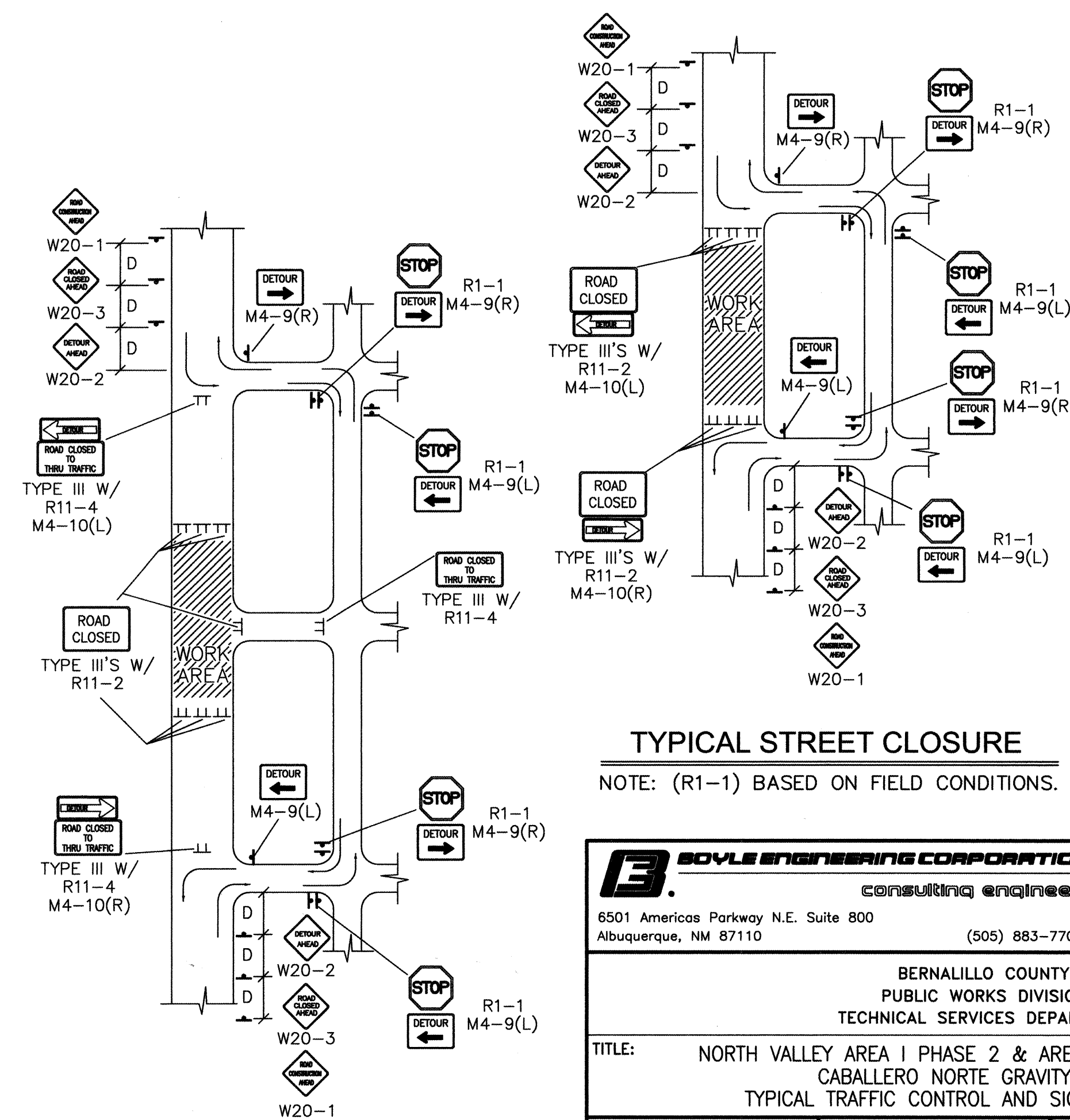
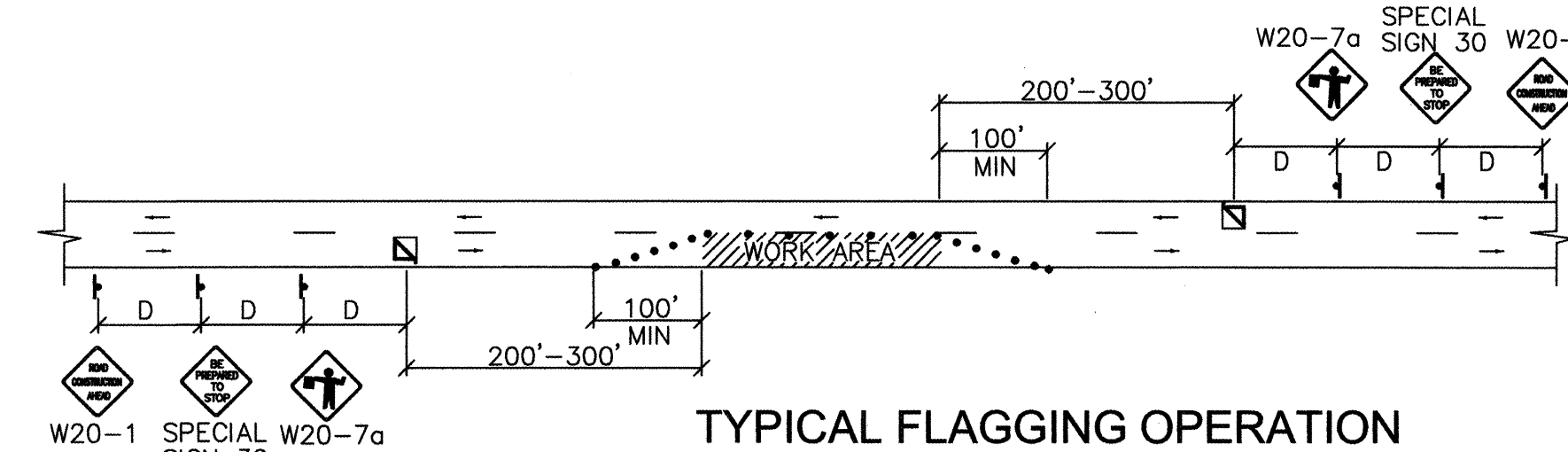
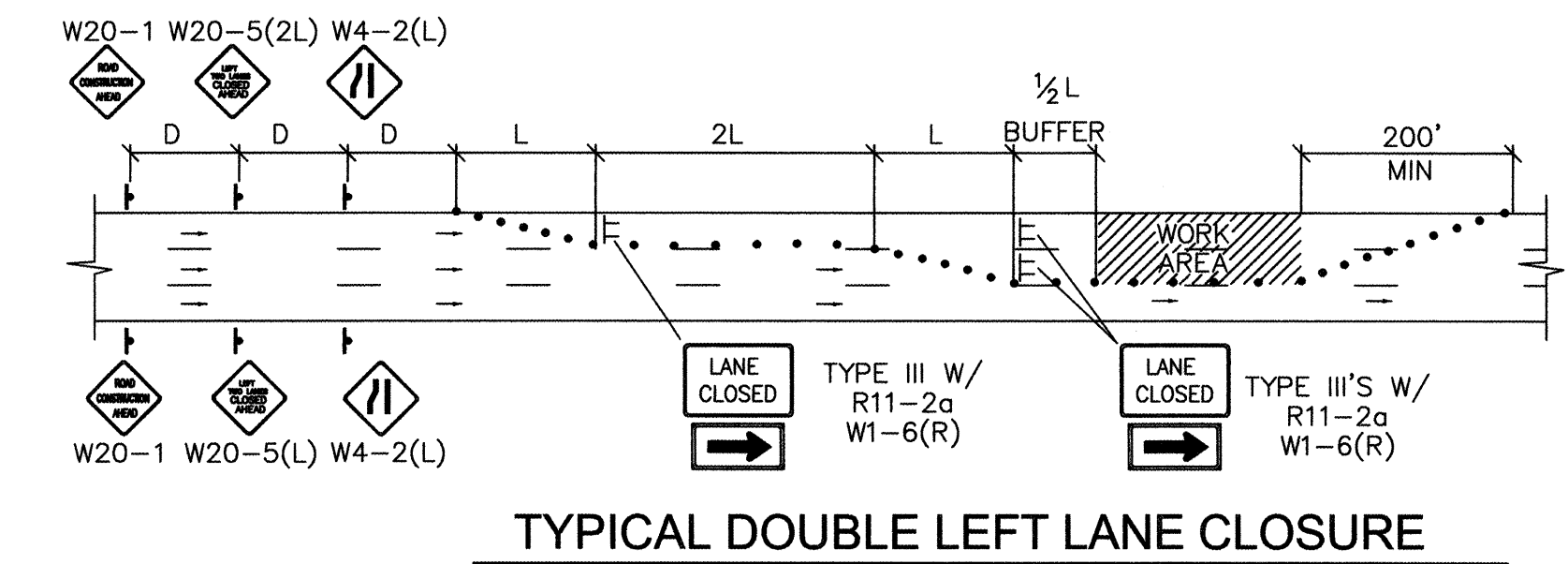
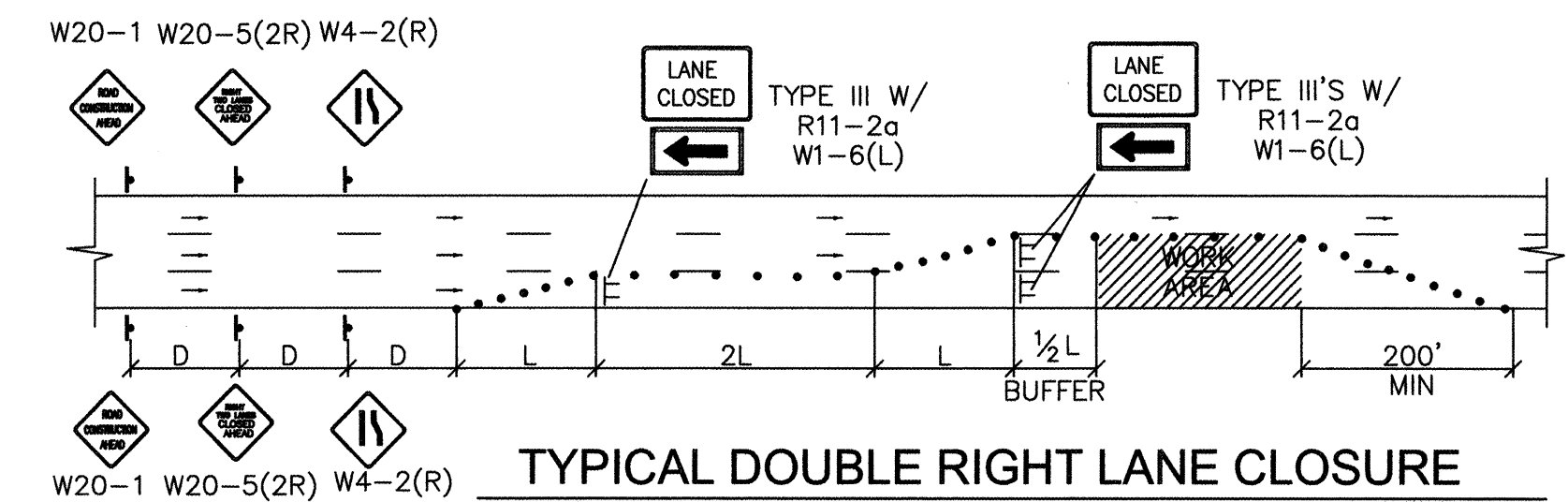
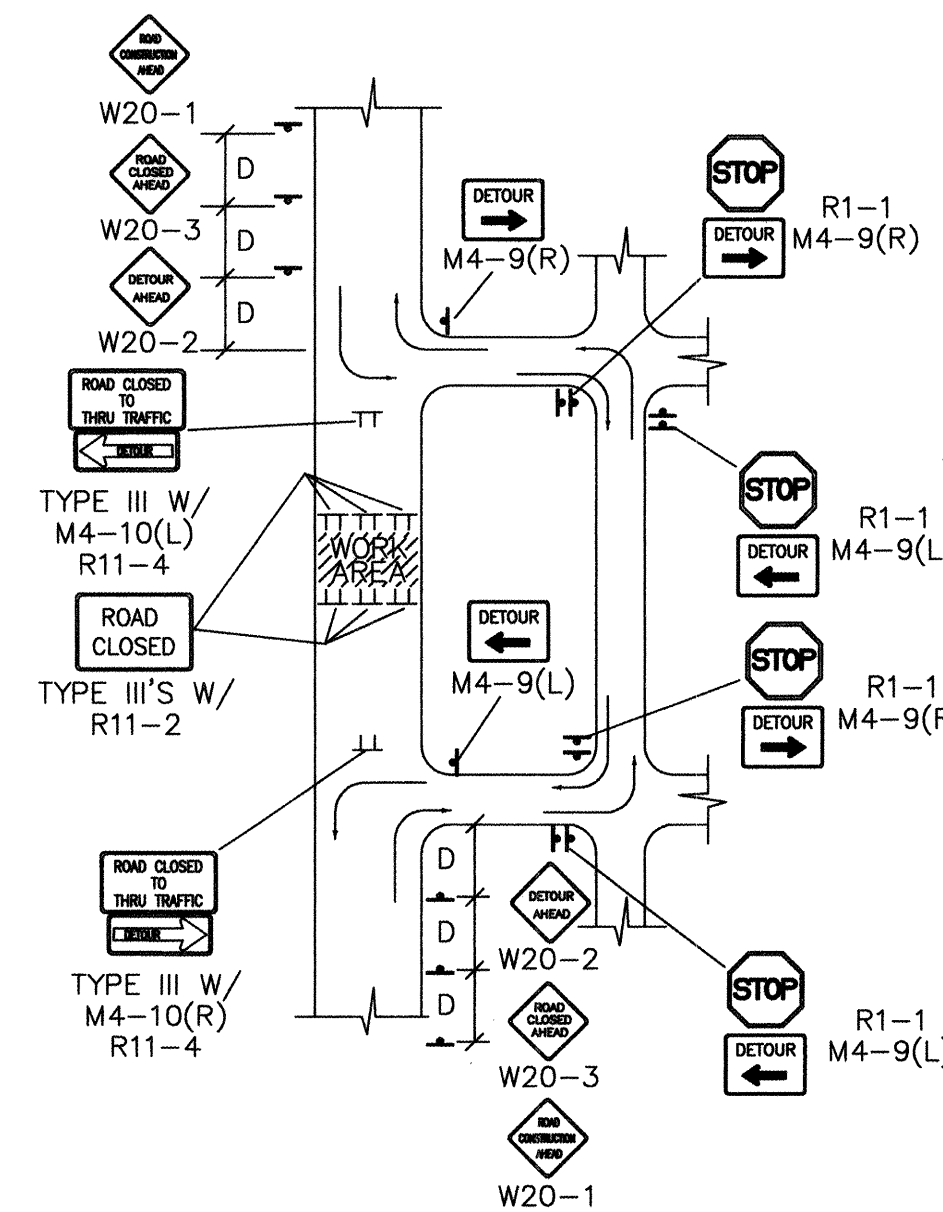
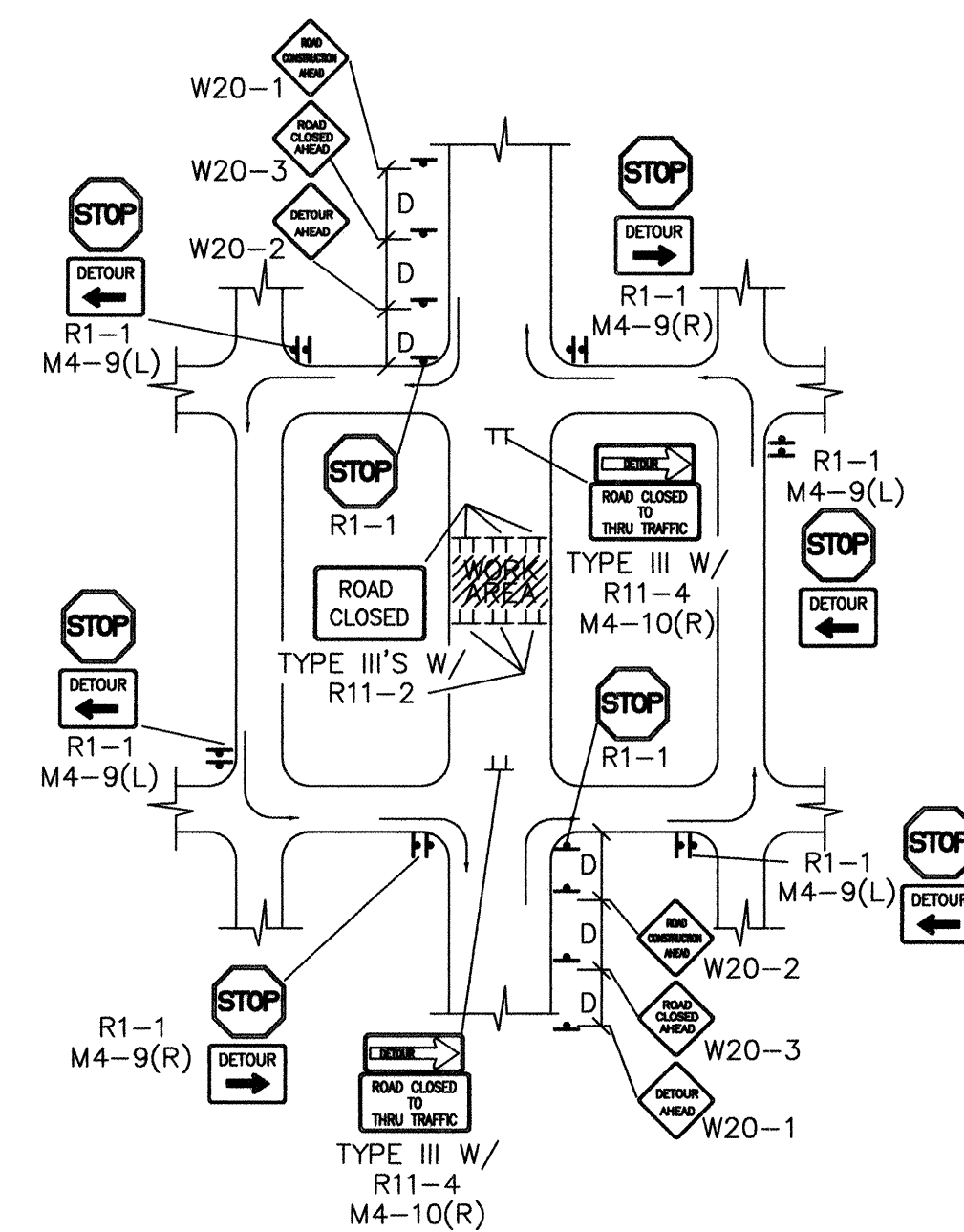
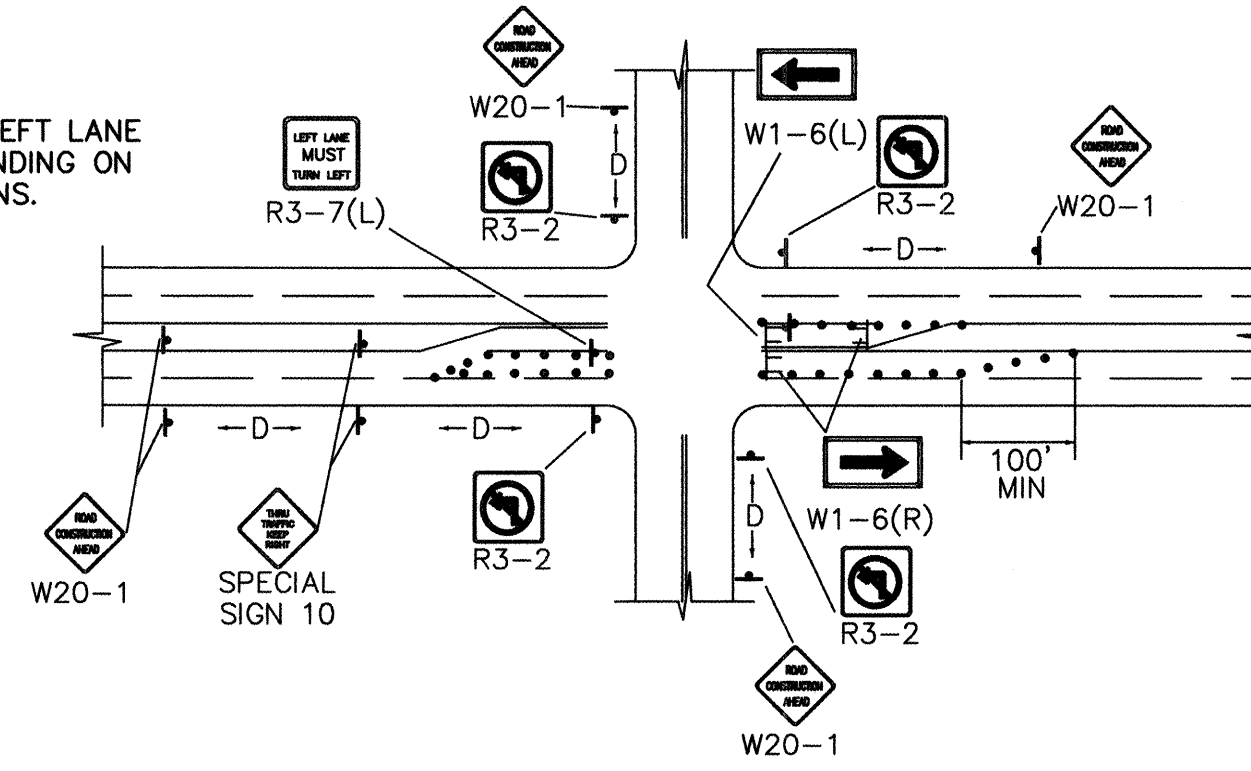


GENERAL NOTE:

ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN 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.

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



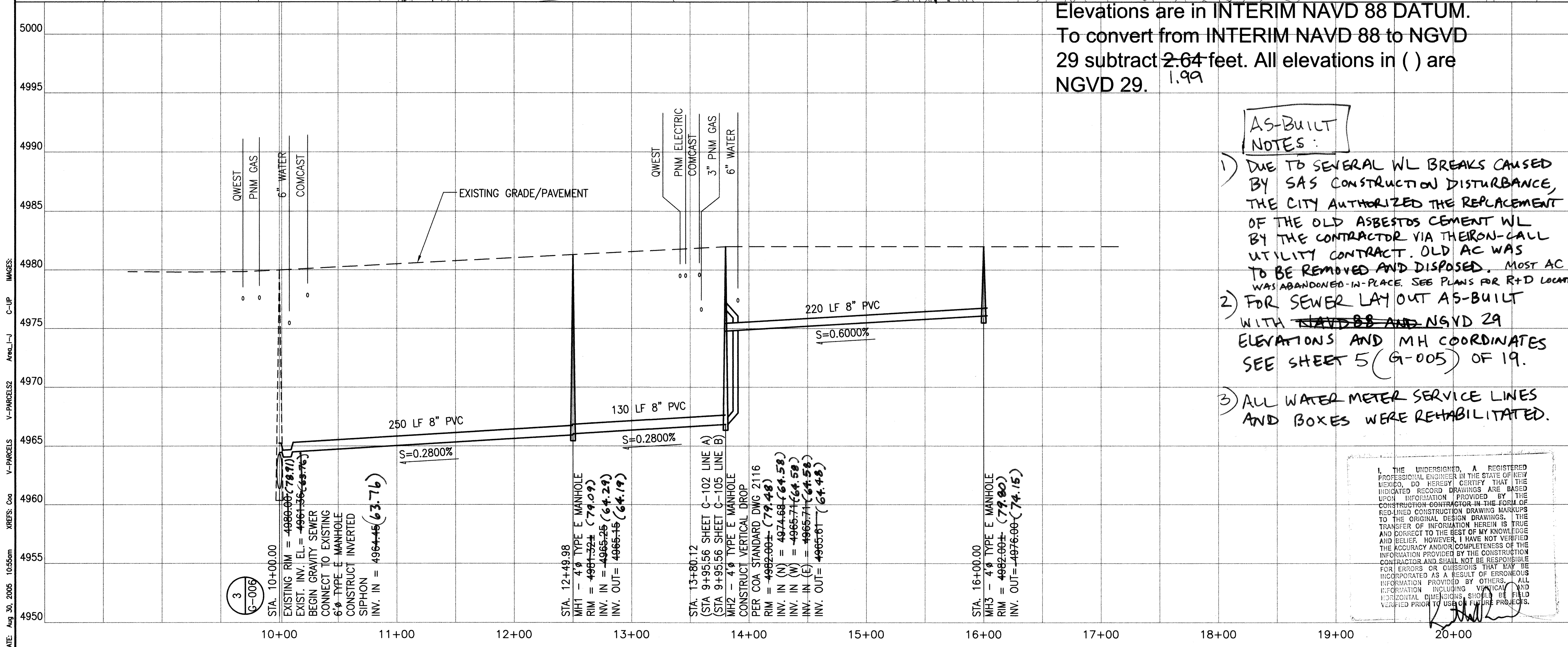
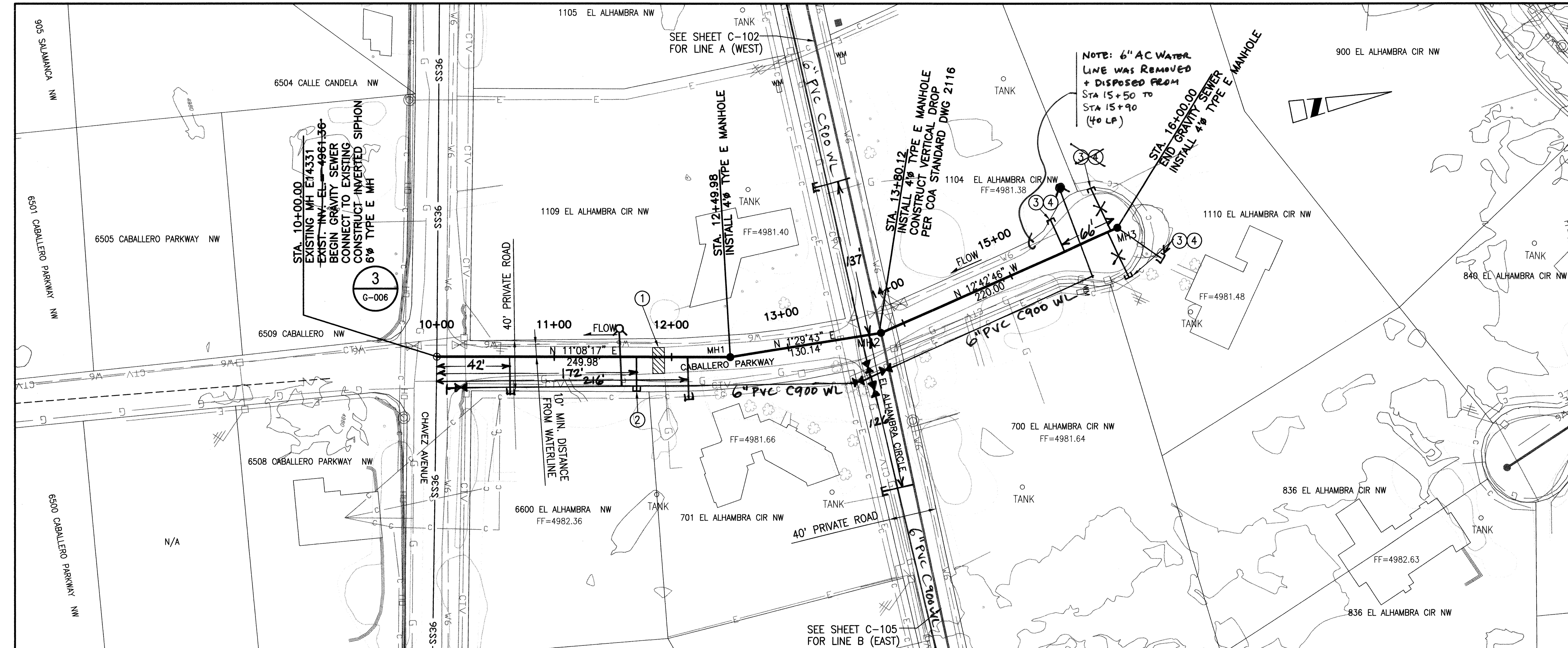
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 consulting engineers
 6501 Americas Parkway N.E. Suite 800
 Albuquerque, NM 87110 (505) 883-7700

BERNALILLO COUNTY
 PUBLIC WORKS DIVISION
 TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
 CABALLERO NORTE GRAVITY SYSTEM
 TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 763581	Zone Map No. E-14	Sheet 8	of 19

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	TI C	ACS Aluminum Cap stamped "6-E13, 1991"	DATE	NO.	NO.	CITY OF ALBUQUERQUE STANDARD	
WORK BY	BCPND	In Street @ 5100 Rio Grande Blvd. N.W.	DATE	NO.	NO.		
INSPECTED BY		Southwest quadrant	DATE	NO.	NO.	DESIGN	
ACCEPTANCE BY		Geographic Position (NAD 1927), in feet	DATE	NO.	NO.		
DRAWINGS BY	Boyle	N.M. State Plane Coordinates (Central Zone)	DATE	NO.	NO.	CHECKED BY	
CORRECTED BY		X = 377204.63, Y = 1510073.49	DATE	NO.	NO.		
MICRO-FILM INFORMATION		Elevation (Adjusted NAVD88) = 4977.37, in feet	DATE	NO.	NO.	DESIGNED BY	
RECORDED BY			DATE	NO.	NO.		
NO.			DATE	NO.	NO.	DRAWN BY	
			DATE	NO.	NO.		



LOCATION MAP: NTS

SCALE IN FEET
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

GRAVITY SEWER SERVICE SCHEDULE		
ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE
1104 EL ALHAMBRA CIR	15+50	4977.00
1110 EL ALHAMBRA CIR (W)	15+90	4977.67
1110 EL ALHAMBRA CIR (E)	15+93	4977.67
6600 EL ALHAMBRA CIR	11+70	4976.80

SEE PLAN FOR STUB LOCATION

AS BUILT INFORMATION

CONTRACTOR	TLG
WORK ORDER NO.	11
DESIGNED BY	BOYLE
CHECKED BY	BOYLE
DATE	

ENGINEERS SEAL

REGISTERED PROFESSIONAL ENGINEER
KATHA A. REED
6/3/05

KEYED NOTES:

- REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
- INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
- INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
- INSTALL NEW SAS SERVICE AT A 1.0% SLOPE
- REMOVE AND REPLACE 24" CMP CULVERT

AS-BUILT NOTES:

- DUE TO SEVERAL WL BREAKS CAUSED BY SAS CONSTRUCTION DISTURBANCE, THE CITY AUTHORIZED THE REPLACEMENT OF THE OLD ASBESTOS CEMENT WL BY THE CONTRACTOR VIA THEIR CALL UTILITY CONTRACT. OLD AC WAS TO BE REMOVED AND DISPOSED. MOST AC WAS ABANDONED IN PLACE. SEE PLANS FOR R+D LOCATIONS.
- FOR SEWER LAY OUT AS-BUILT WITH ~~NAVD 88~~ AND NGVD 29 ELEVATIONS AND MH COORDINATES SEE SHEET 5 (G-005) OF 19.
- ALL WATER METER SERVICE LINES AND BOXES WERE REHABILITATED.

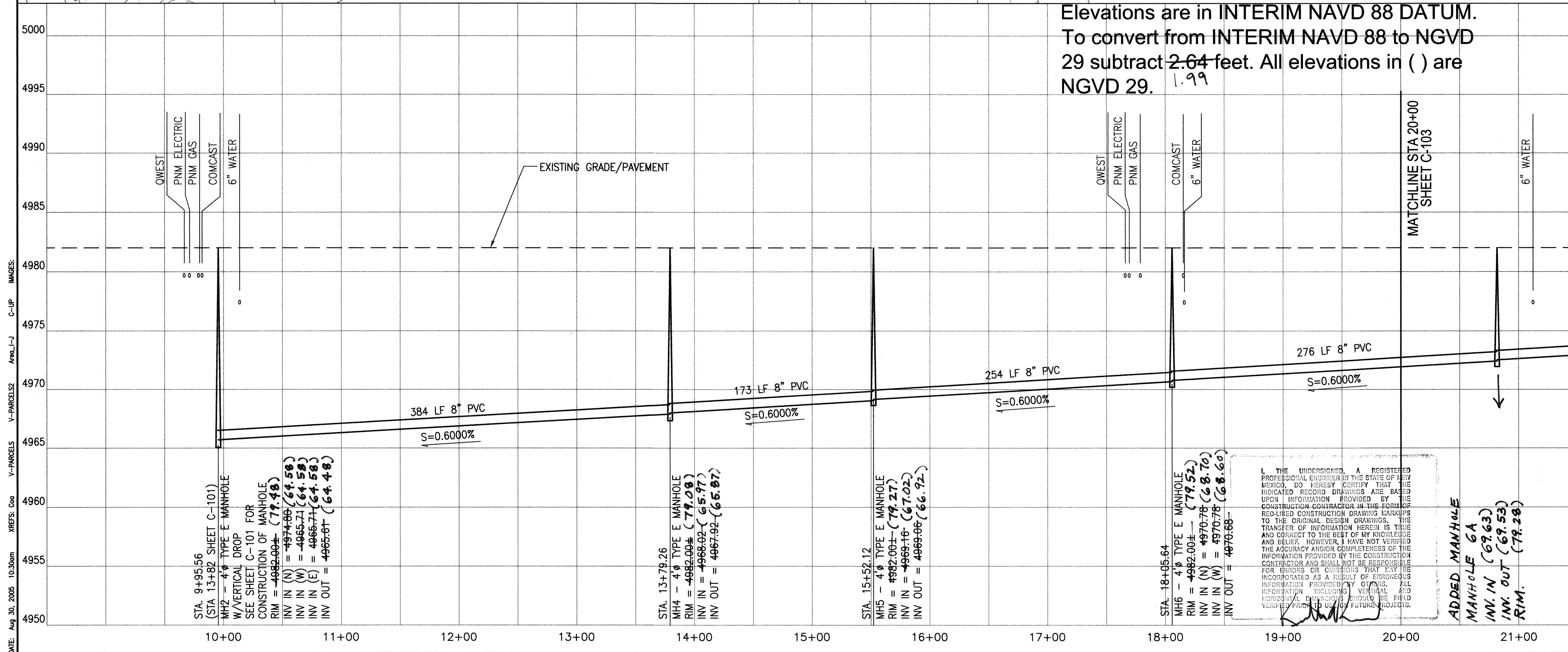
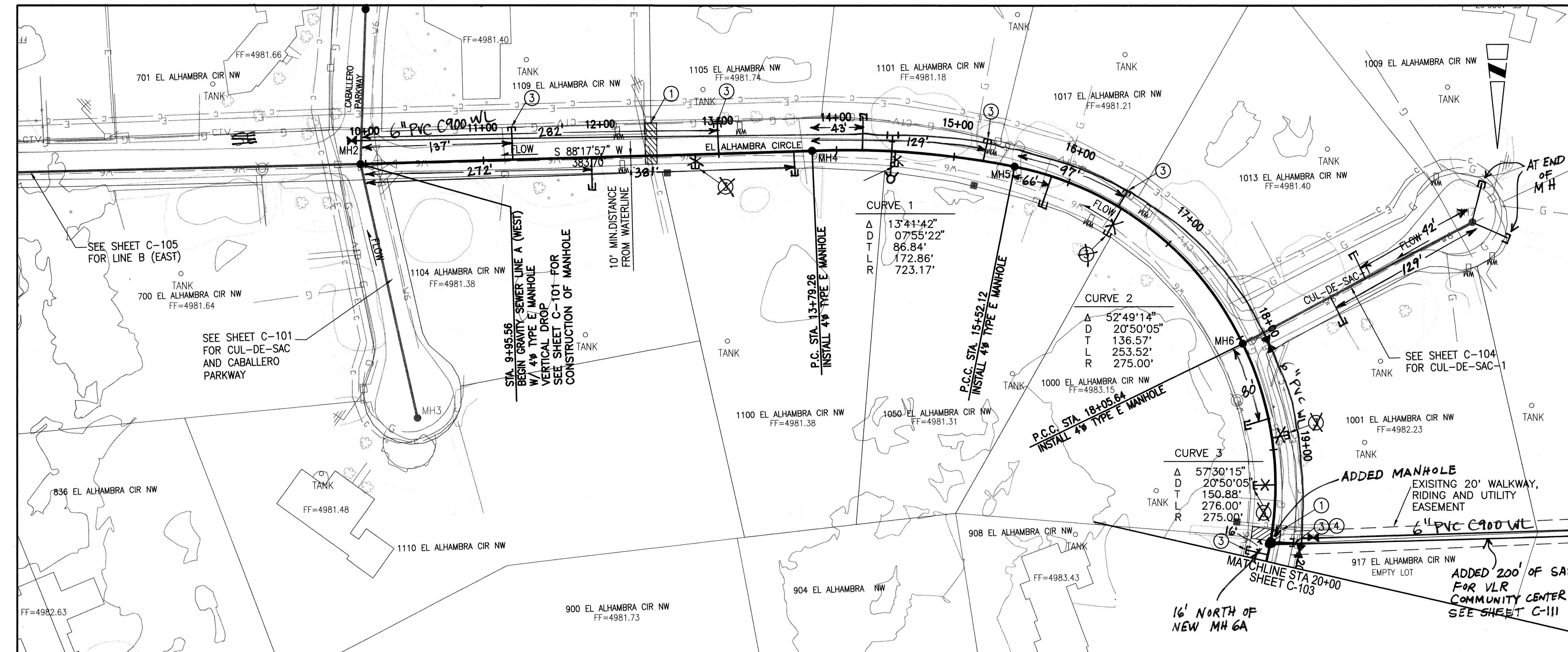
BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
CABALLERO PARKWAY PLAN AND PROFILE STA 10+00 TO 15+80

DESIGN REVIEW COMMITTEE
SEP 28 2005
DESIGN REVIEW COMMITTEE

City Engineer Approval

City Project No. 763581
Zone Map No. E-14
Sheet 9 of 17



GENERAL NOTE
1. WALKING, RIDING AND UTILITY EASEMENT
RECORDED ON AMENDED PLAT OF EL CABALLERO
NORTE SUBDIVISION ON JULY 31, 1978 IN VOLUME
08, FOLIO 173.

SCALE IN FEET
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

GRAVITY SEWER SERVICE SCHEDULE		
ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE
1105 EL ALHAMBRA CIR	13+00	4977.50
1050 EL ALHAMBRA CIR	16+50	4975.00
1100 EL ALHAMBRA CIR	12+80	4975.00
1101 EL ALHAMBRA CIR	15+25	4975.90
1000 EL ALHAMBRA CIR	19+30	4977.67
1017 EL ALHAMBRA CIR	16+47	4975.10
1001 EL ALHAMBRA CIR	18+90	4977.00
908 EL ALHAMBRA CIR	19+90	4977.40
1109 EL ALHAMBRA CIR	11+25	4977.00
EASEMENT	19+81	4975.00

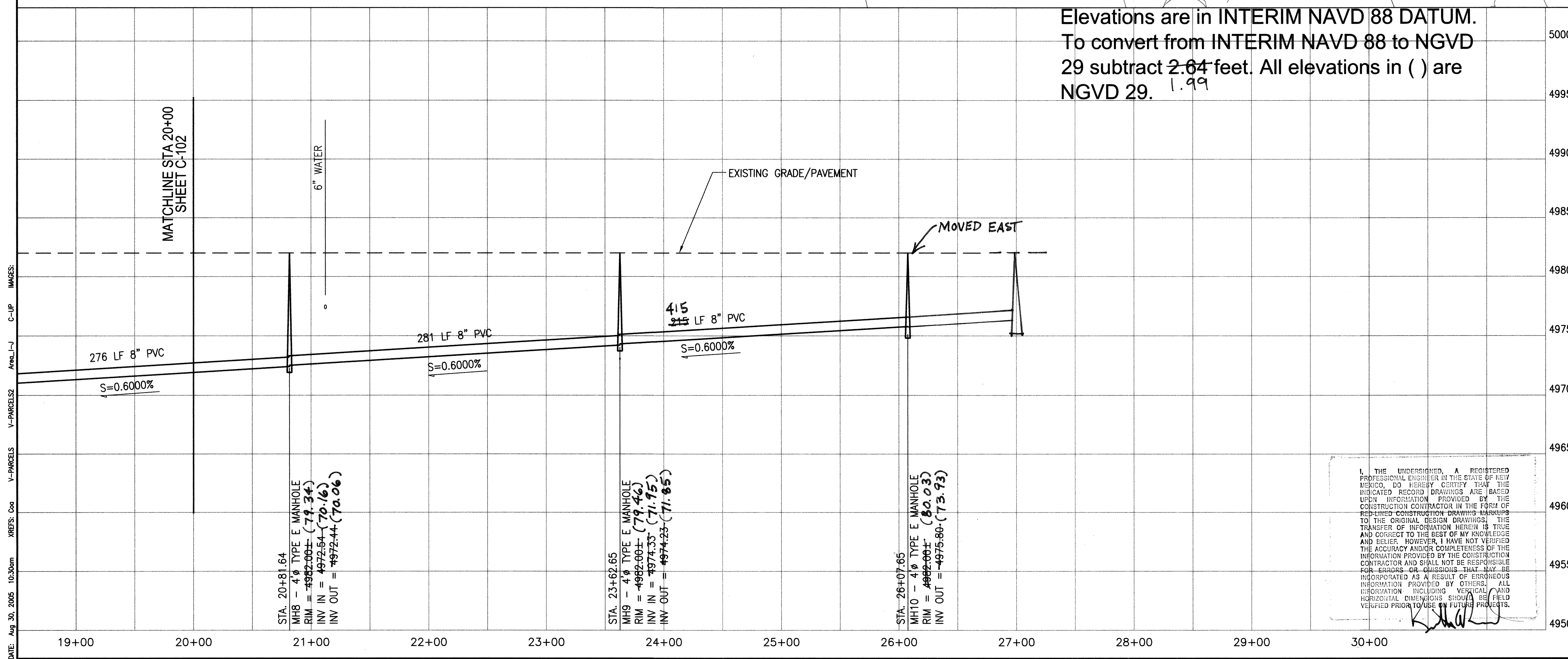
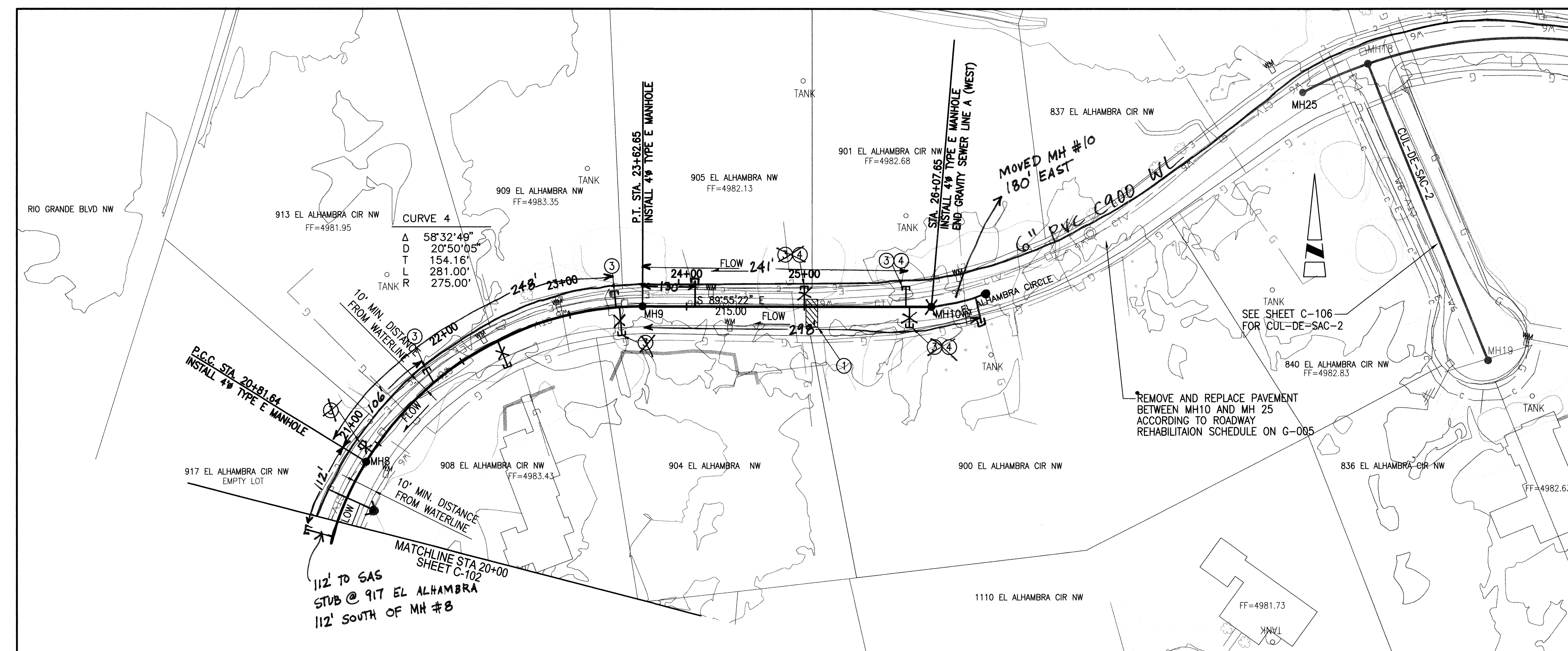
KEYED NOTES:
① REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
② INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
③ INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
④ INSTALL NEW SAS SERVICE AT A 1.0% SLOPE
⑤ REMOVE AND REPLACE 24" CMP CULVERT

BOYLE ENGINEERING CORPORATION
consulting engineers
6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110 (505) 883-7700

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
EL ALHAMBRA CIR LINE A (WEST) PLAN AND PROFILE STA 10+00 TO 20+00

City Project No.	Zone Map No.	Sheet	of
763581	E-14	10	47 19



LOCATION MAP: NTS

SCALE IN FEET
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

GRAVITY SEWER SERVICE SCHEDULE		
ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE
900 EL ALHAMBRA CIR	25+87	4977.67
901 EL ALHAMBRA CIR	25+85	4977.67
904 EL ALHAMBRA CIR	23+43	4977.67
905 EL ALHAMBRA CIR	25+00	4977.15
909 EL ALHAMBRA CIR	23+40	4977.67
913 EL ALHAMBRA CIR	21+70	4976.80
917 EL ALHAMBRA CIR	21+10	4977.67

SEE PLAN FOR STUB LOCATIONS.

KEYED NOTES:

- REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
- INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
- INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
- INSTALL NEW SAS SERVICE AT A 1.0% SLOPE
- REMOVE AND REPLACE 24" CMP CULVERT

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consulting engineers
6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110 (505) 883-7700

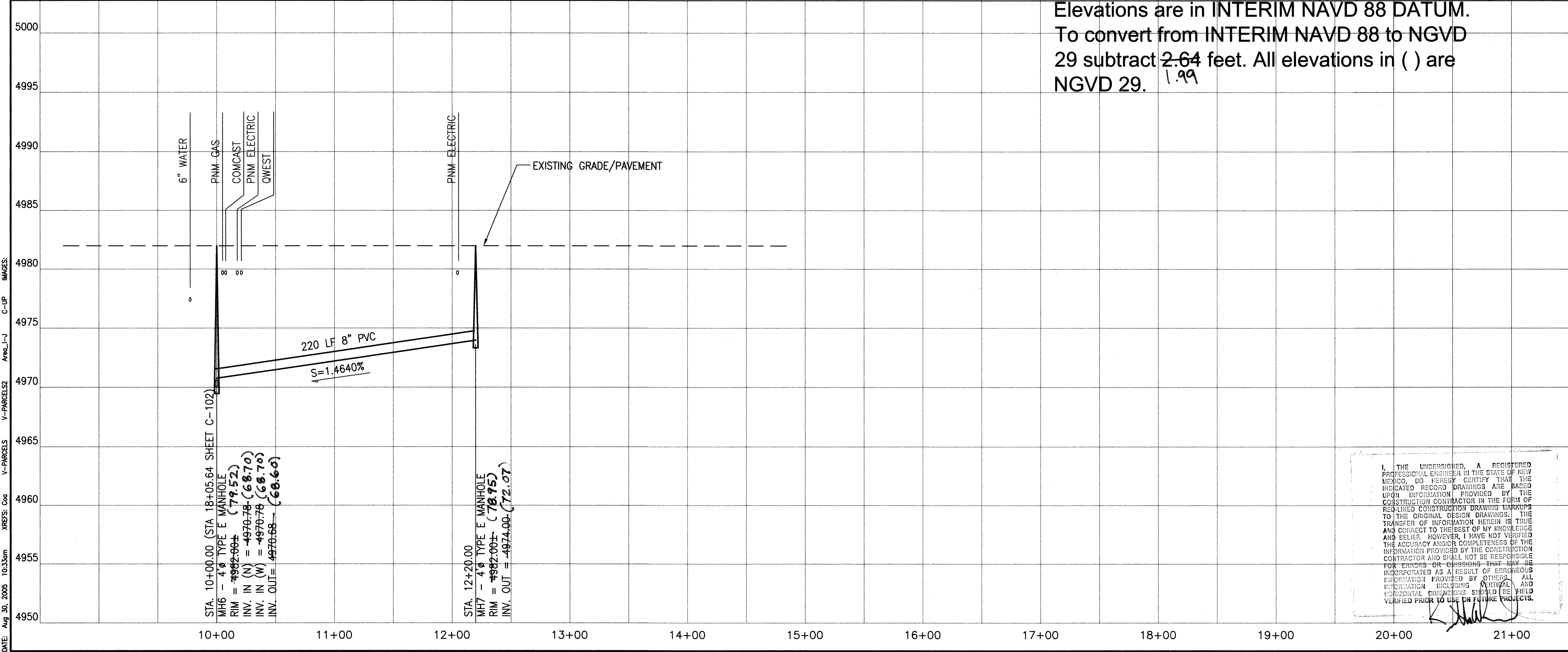
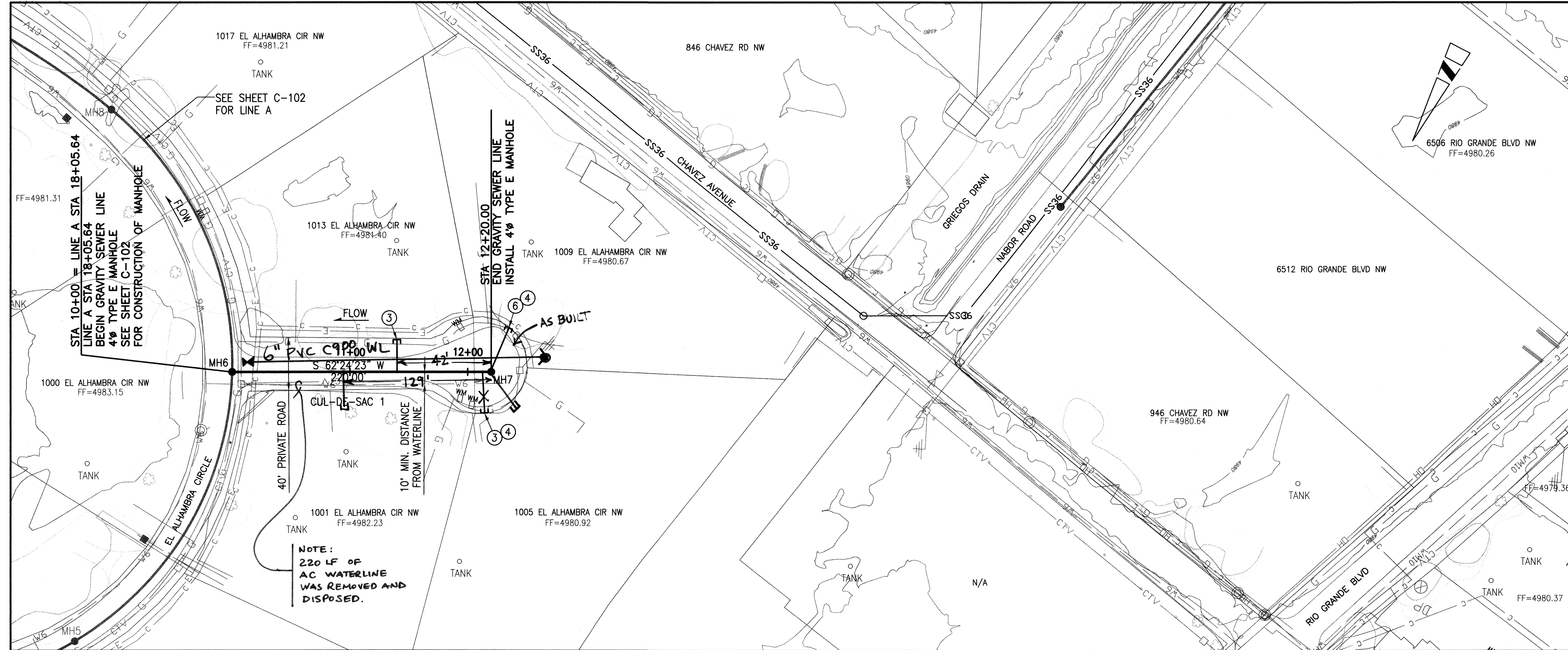
BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
EL ALHAMBRA CIR LINE A (WEST) PLAN AND PROFILE STA 20+00 TO 24+98

DESIGN REVIEW COMMITTEE	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
SEP 28 2005 DESIGN REVIEW COMMITTEE			

City Project No.	Zone Map No.	Sheet	of
763581	E-14	11	19

DATE: Aug 30, 2005 10:30am XREFS: Coa V-PARCELS V-PARCELS2 Area, L-J C-UP IMAGES:



LOCATION MAP: NTS

SCALE IN FEET
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

GRAVITY SEWER SERVICE SCHEDULE		
ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE
1095 EL ALHAMBRA CIR	12+17	4976.65
1009 EL ALHAMBRA CIR	12+20	4976.85
1013 EL ALHAMBRA CIR	11+40	4976.60
SEE PLAN FOR STUB LOCATIONS.		

AS BUILT INFORMATION

CONTRACTOR	TLC
WORK	IT
DESIGNED BY	BCPMD
APPROVED BY	BOYLE
FIELD	BOYLE
REVISIONS	BOYLE
CHECKED BY	BOYLE
DATE	

SURVEY INFORMATION

DATE	
NO.	

ENGINEERS SEAL

KEY: A. REG. 9-31-05

KEYED NOTES:

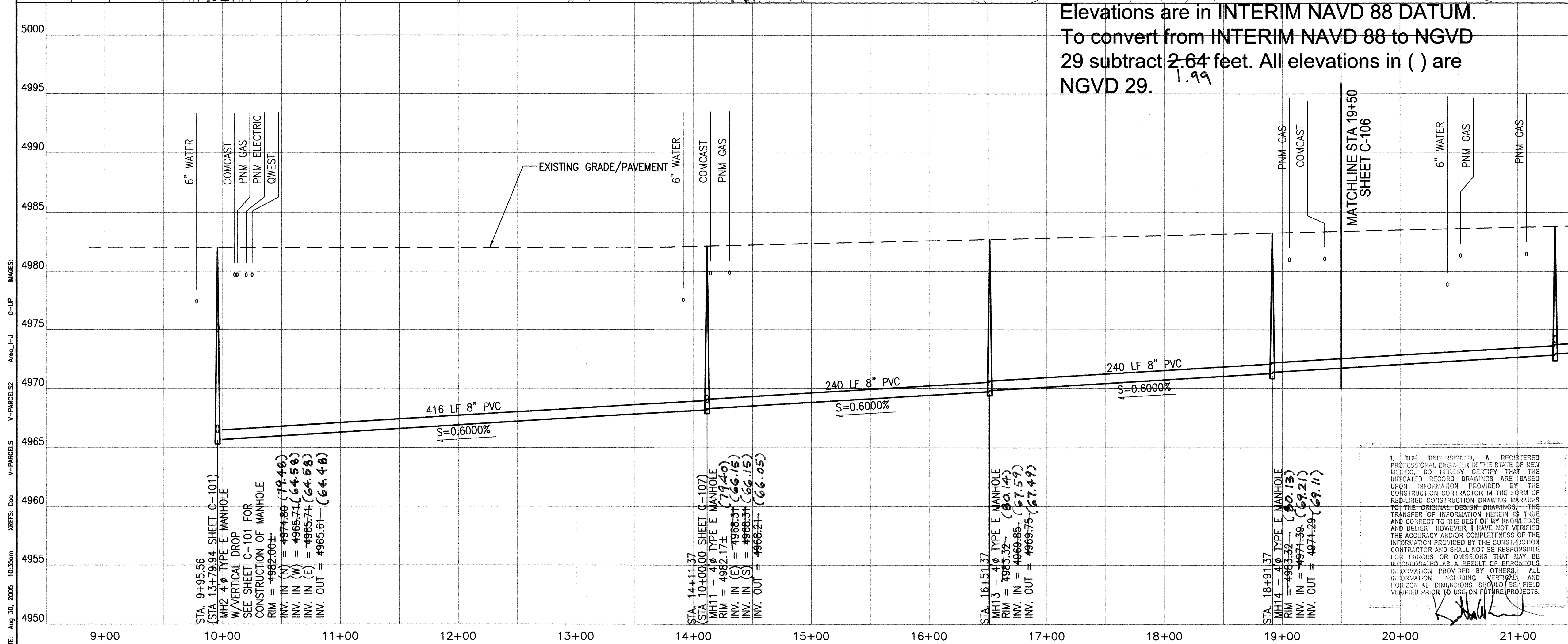
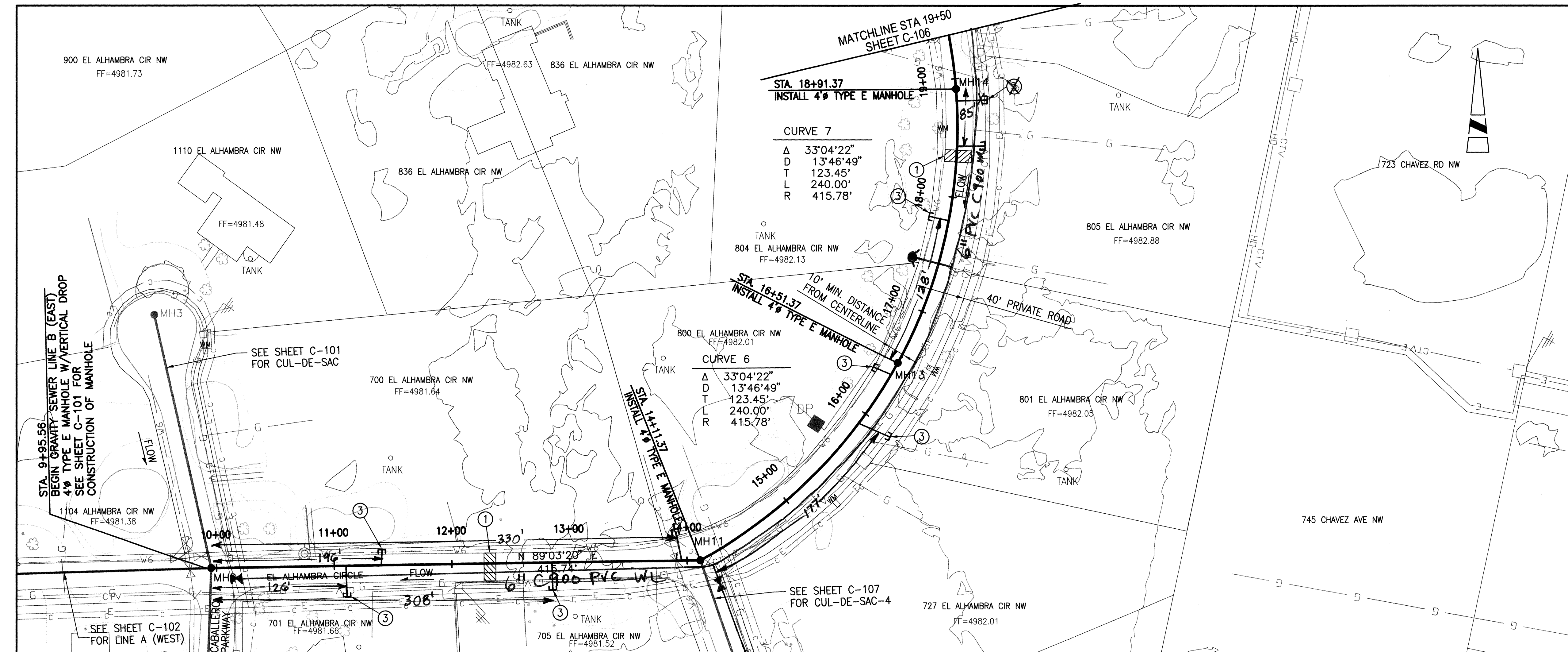
- REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
- INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
- INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
- INSTALL NEW SAS SERVICE AT A 1.0% SLOPE
- REMOVE AND REPLACE 24" CMP CULVERT
- INSTALL NEW 4" SAS SERVICE LINE PER STD DWG 2118

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
EL ALHAMBRA CIR CUL-DE-SAC 1 PLAN AND PROFILE STA 10+00 TO 12+08

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED			
SEP 28 2005			
DESIGN REVIEW COMMITTEE			

City Project No. 763581 Zone Map No. E-14 Sheet 12 of 19



CONTRACTOR: **TLC**

WORK ORDER: **11**

DESIGNED BY: **BCPMD**

DRAWN BY: **BOYLE**

CHECKED BY: **BOYLE**

DATE: **SEP 28 2005**

AS BUILT INFORMATION

CONTRACTOR: **TLC**

WORK ORDER: **11**

DESIGNED BY: **BCPMD**

DRAWN BY: **BOYLE**

CHECKED BY: **BOYLE**

DATE: **SEP 28 2005**

GRAVITY SEWER SERVICE SCHEDULE

ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE
700 EL ALHAMBRA CIR	11+40	4977.00
701 EL ALHAMBRA CIR	11+10	4977.65
705 EL ALHAMBRA CIR	12+85	4977.60
800 EL ALHAMBRA CIR	16+40	4975.50
801 EL ALHAMBRA CIR	15+90	4976.15
804 EL ALHAMBRA CIR	17+80	4976.20
805 EL ALHAMBRA CIR	18+90	4977.55

KEYED NOTES:

- REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
- INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
- INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
- INSTALL NEW SAS SERVICE AT A 1.0% SLOPE
- REMOVE AND REPLACE 24" CMP CULVERT

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE: **NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
EL ALHAMBRA CIR LINE B (EAST) PLAN AND PROFILE STA 10+00 TO 19+50**

City Project No. **763581**

Zone Map No. **E-14**

Sheet **13** of **47**



LOCATION MAP: NTS

BENCH MARKS

Cap stamped "6-E13, 1991"

100 Rio Grande Blvd. N.W.

drant

osition (NAD 1927), in feet

osition Coordinates (Central Zone)

3, Y = 1510073.49

usted NAVD88) = 4977.37, in feet



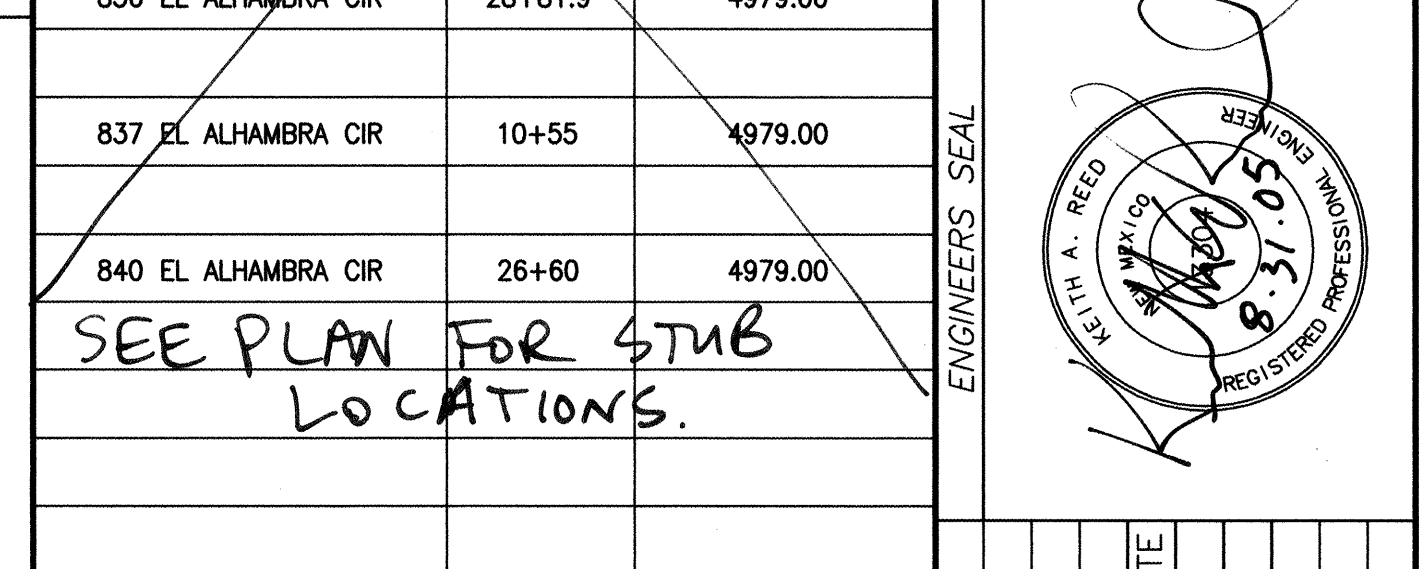
SCALE IN FEET

SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

GRAVITY SEWER SERVICE SCHEDULE			
ADDRESS	STATION	STUB INV. EL. @ PROPERTY LINE	
808 EL ALHAMBRA CIR	20+00	4978.00	
819 EL ALHAMBRA CIR	22+80	4979.00	
823 EL ALHAMBRA CIR	23+20	4979.00	
824 EL ALHAMBRA CIR	26+70	4979.00	
827 EL ALHAMBRA CIR	25+00	4978.80	
836 EL ALHAMBRA CIR	28+81.9	4979.00	

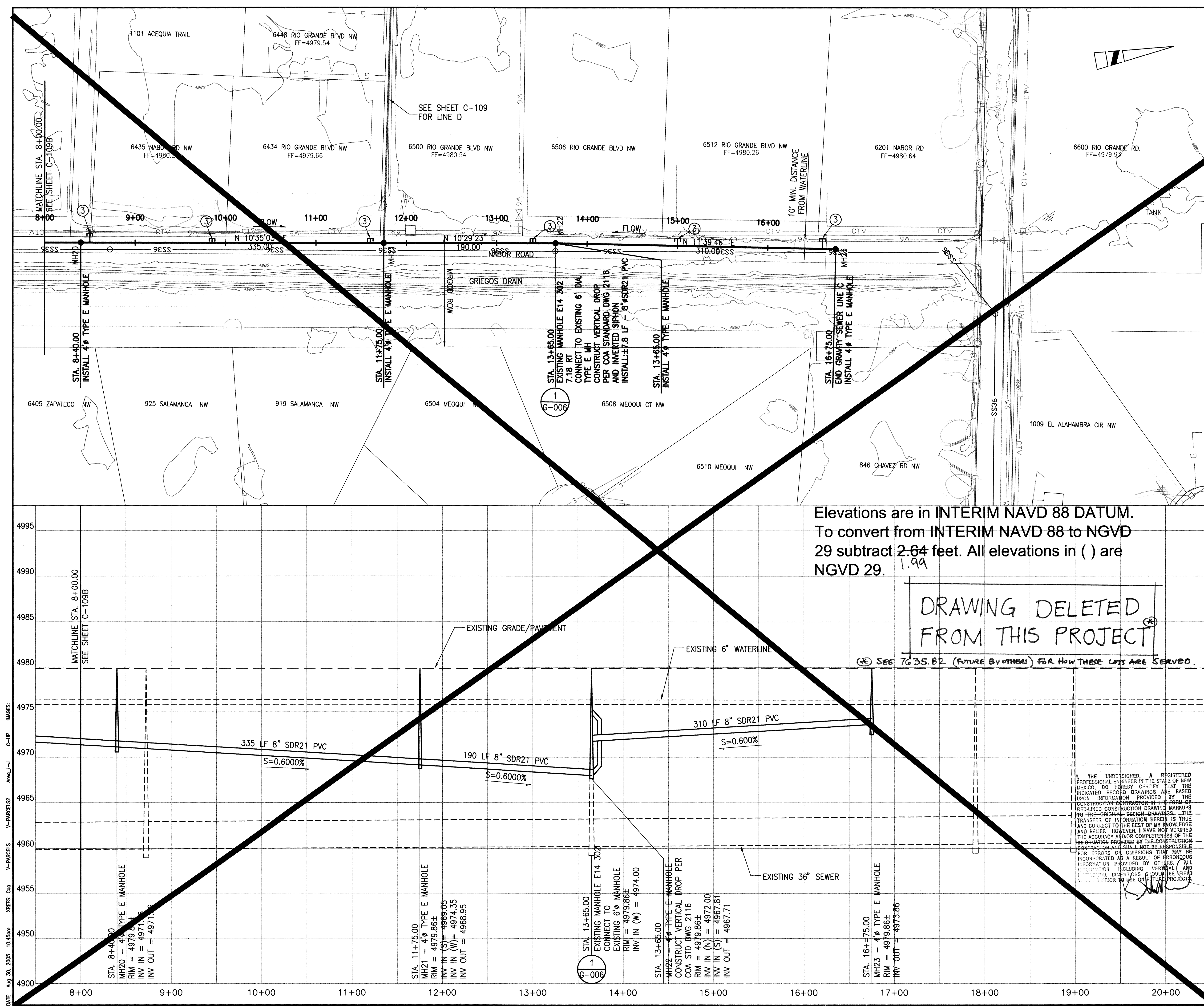
	5000	837 EL ALHAMBRA CIR	10+55	4979.00
	4995	840 EL ALHAMBRA CIR	26+60	4979.00
SEE PLAN FOR STUB LOCATIONS.				

ENGINEERS SEAL



- | KEYED NOTES: | | REVISIONS | | DESIGN | |
|--|--|------------------------|------------|-----------------------|--------|
| NO. | DATE | BY | CHECKED BY | DATE | APR 05 |
| 1 | REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2. | | | | |
| 2 | INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136 | | | | |
| 3 | INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125 | | | | |
| 4 | INSTALL NEW SAS SERVICE AT A 1.0% SLOPE | | | | |
| 5 | REMOVE AND REPLACE 24" CMP CULVERT | | | | |
| 6 | INSTALL NEW 4"Ø SAS SERVICE LINE PER COA STD DWG 2118 | | | | |
|  BOYLE ENGINEERING CORPORATION
consulting engineers | | NO. 1106
DATE 11/06 | | AS-BUILT'S
REMARKS | |
| 6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110
(505) 883-7700 | | | | | |

BERNALILLO COUNTY PUBLIC WORKS DIVISION TECHNICAL SERVICES DEPARTMENT													
TITLE: NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT CABALLERO NORTE GRAVITY SYSTEM EL ALHAMBRA CIR LINE B (EAST) PLAN AND PROFILE STA. 19+50 TO 28+91 AND LINE F PLAN AND PROFILE STA. 10+00 TO 10+60													
Design Review Committee 	City Engineer Approval	Last Design Update	<table border="1"> <tr> <td>Mo./Day/Yr.</td> <td>Mo./Day/Yr.</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.								
Mo./Day/Yr.	Mo./Day/Yr.												
City Project No. 763581	Zone Map No. E-14	Sheet 14	Of 47 19										



Elevations are in INTERIM NAVD 88 DATUM.
To convert from INTERIM NAVD 88 to NGVD 29 subtract 2.64 feet. All elevations in () are NGVD 29.

DRAWING DELETED FROM THIS PROJECT

AS BUILT INFORMATION

CONTRACTOR
WORK
STAMPED BY
ACCEPTANCE BY
FIELD
DRAWINGS
CORRECTED BY
RECORDED BY
NO.

TLC
II
BCPND
N
Boyle
MICRO-FILM INFORMATION
DATE

BENCH MARKS

CONTRACTOR
WORK
STAMPED BY
ACCEPTANCE BY
FIELD
DRAWINGS
CORRECTED BY
RECORDED BY
NO.

TLC
II
BCPND
N
Boyle
MICRO-FILM INFORMATION
DATE

SURVEY INFORMATION

DATE
NO.

FIELD NOTES

NO.

ENGINEERS SEAL

11/06
AS-BUILTS
NO. DATE

REVISIONS
DESIGN
DATE APR 05
DATE APR 05
DATE APR 05

KEYED NOTES:

① REMOVE AND REPLACE SPEED HUMP AND STRIPING, SEE SPEED HUMP DETAIL G-006/2.
② INSTALL NEW 4" SAS SERVICE RISER PER COA STD DWG 2136
③ INSTALL NEW 4" SAS SERVICE PER COA STD DWG 2125
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consulting engineers

6501 Americas Parkway N.E. Suite 800
Albuquerque, NM 87110 (505) 883-7700

BERNALILLO COUNTY

PUBLIC WORKS DIVISION

TECHNICAL SERVICES DEPARTMENT

TITLE:

NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT
CABALLERO NORTE GRAVITY SYSTEM
NABOR ROAD LINE C PLAN AND PROFILE STA 10+00 TO 16+55

Design Review Committee

City Engineer Approval

Last Design Update

Mo./Day/Yr.

Mo./Day/Yr.

City Project No.

Zone Map No.

Sheet

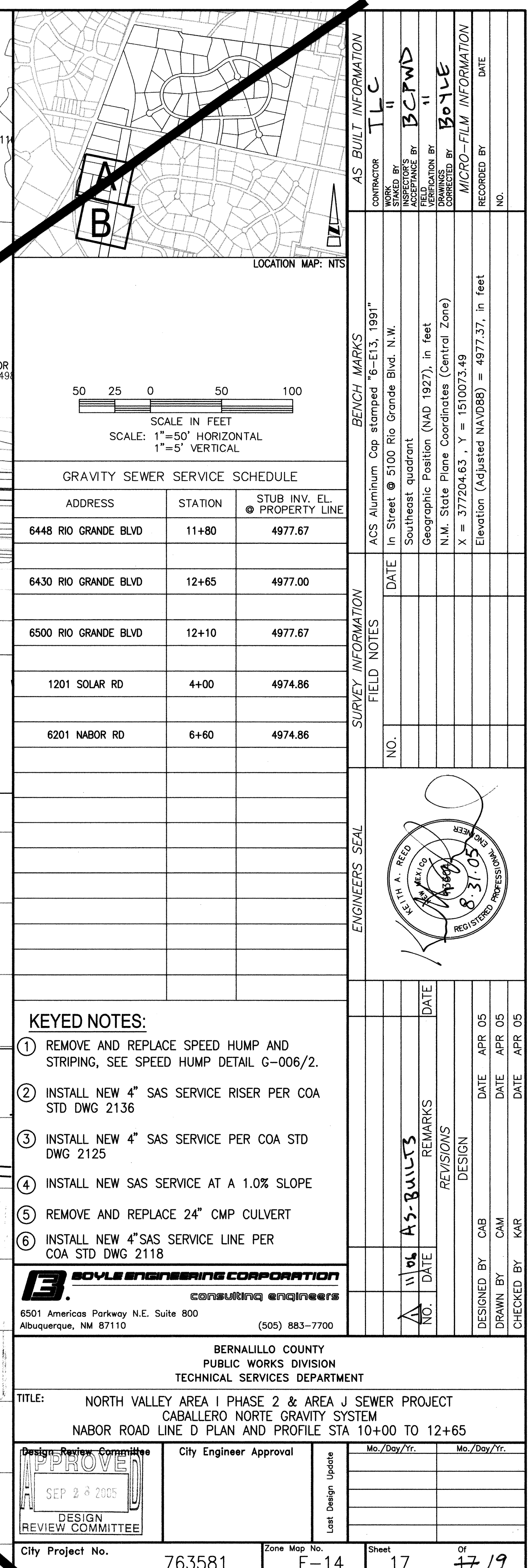
or

763581

E-14

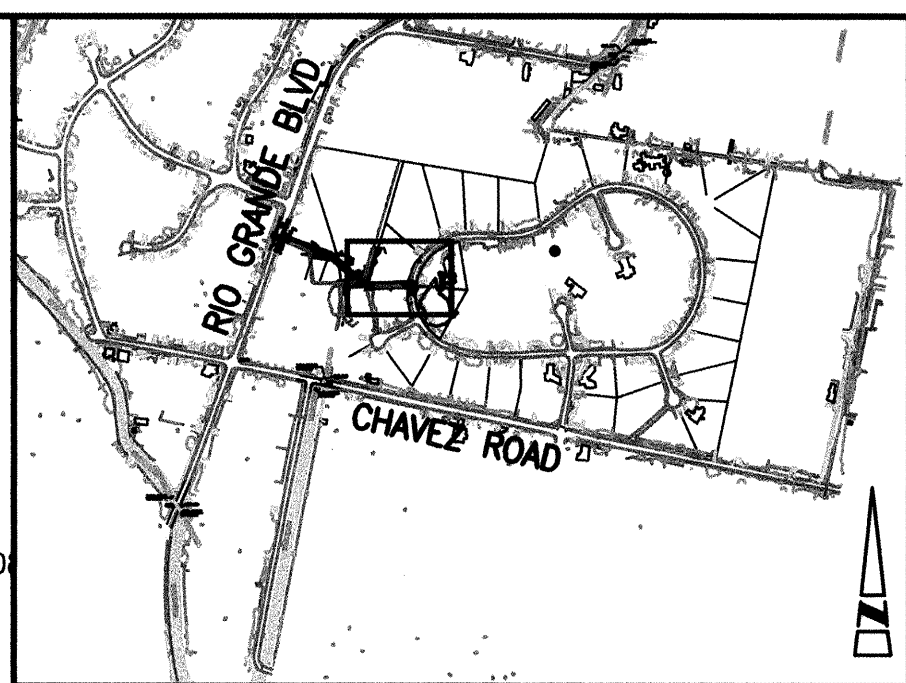
16

4719



~~☒ BORE AND JACK NEW 14" STEEL CASING, L = 45 LF±. INSTALL NEW 8" CARRIER PIPE INSIDE CASING PIPE INCLUDING CASING END SEALS AND SPACERS, L = 55 LF±.~~

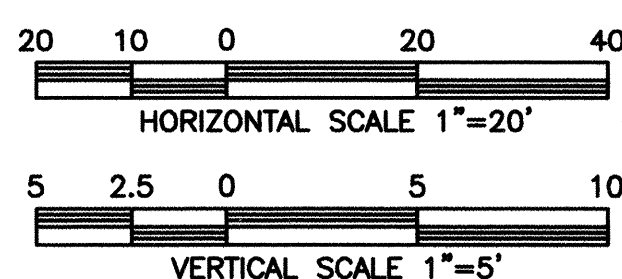
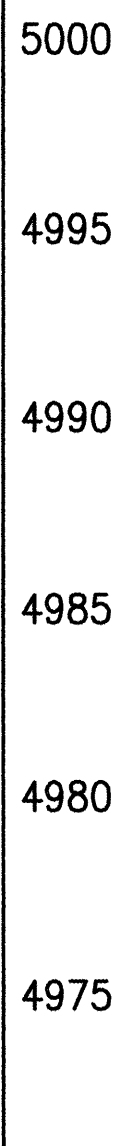
~~☒ BORE AND JACK NEW 12" STEEL CASING, L = 45 LF±. INSTALL NEW 8" CARRIER PIPE INSIDE CASING PIPE INCLUDING CASING END SEALS AND SPACERS, L = 55 LF±.~~



1. WORK ACTIVITIES MUST BE CONFINED TO EASEMENTS AS SHOWN.
2. CONTACT VILLAGE OF LOS RANCHOS TO OBTAIN LOCATIONS OF EXISTING IRRIGATION SYSTEM PIPING.
3. COORDINATE WATER SHUT OFFS WITH WATER UTILITY DEPARTMENT.
4. SEWER AND WATER ARE CLOSER THAN 10 FEET HORIZONTALLY. SEWER TO BE CONSTRUCTED USING GREEN PVC C900 PRESSURE PIPE.

6" VALVE	55' EACH WAY
6" x 22.5° BEND	4' EACH WAY
6" x 11.25° BEND	2' EACH WAY

Elevations are in INTERIM NAVD 88 DATUM.
To convert from INTERIM NAVD 88 to NGVD
29 subtract 1.99 feet. All elevations in () are
NGVD 29.



NOTE:
EXISTING UTILITIES ARE APPROXIMATE.
LOCATION OF UTILITIES TO BE VERIFIED BY
CONTRACTOR PRIOR TO CONSTRUCTION.



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Albuquerque, NM 87110 (505) 883-7700

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

TITLE:	NORTH VALLEY AREA I PHASE 2 & AREA J SEWER PROJECT CABALLERO NORTE GRAVITY SEWER SYSTEM VILLAGE BARN PLAN AND PROFILE STA 14+00 TO 17+50
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	763581	Zone Map No.	E-14	Sheet	19	Of	19
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