

BLACK ARROYO TRAIL

CONSTRUCTION DOCUMENTS

CITY OF ALBUQUERQUE, NEW MEXICO

PREPARED FOR
PARKS AND RECREATION

JANUARY 2000

INDEX TO DRAWINGS

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PROJECT CONTACTS

CITY OF ALBUQUERQUE
(Water & Sanitary Sewer)
Greg Olson
PWO/Utility Development
P.O. Box 1293
Albuquerque, New Mexico 87103
(505) 768-2718

PNM ELECTRIC
Jim Vann
4201 Edith Blvd. NE
Albuquerque, New Mexico 87107
(505) 848-3426

PNM GAS
Kelly J. Bouska
4625 Edith Blvd. NE
Albuquerque, New Mexico 87107
(505) 761-7705

US WEST COMMUNICATIONS
Norma Carrillo
201 Third Street
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
(505) 245-8706

AMAFCA
2600 Prospect Ave., NE
Albuquerque, New Mexico 87107
(505) 884-2215

AT&T
Ishmael Pantoja
111 Third St., NW
Albuquerque, New Mexico 87103
(505) 842-2806

JONES INTERCABLE
Karen Shore
4611 Montbel Pl., NE
P.O. Box 27138
Albuquerque, NM 87125-7138
(505) 761-6220

NEW MEXICO UTILITIES, INC.
Bob Goy
4700 Irving NW
Albuquerque, New Mexico 87114
(505) 898-2651

WARNING

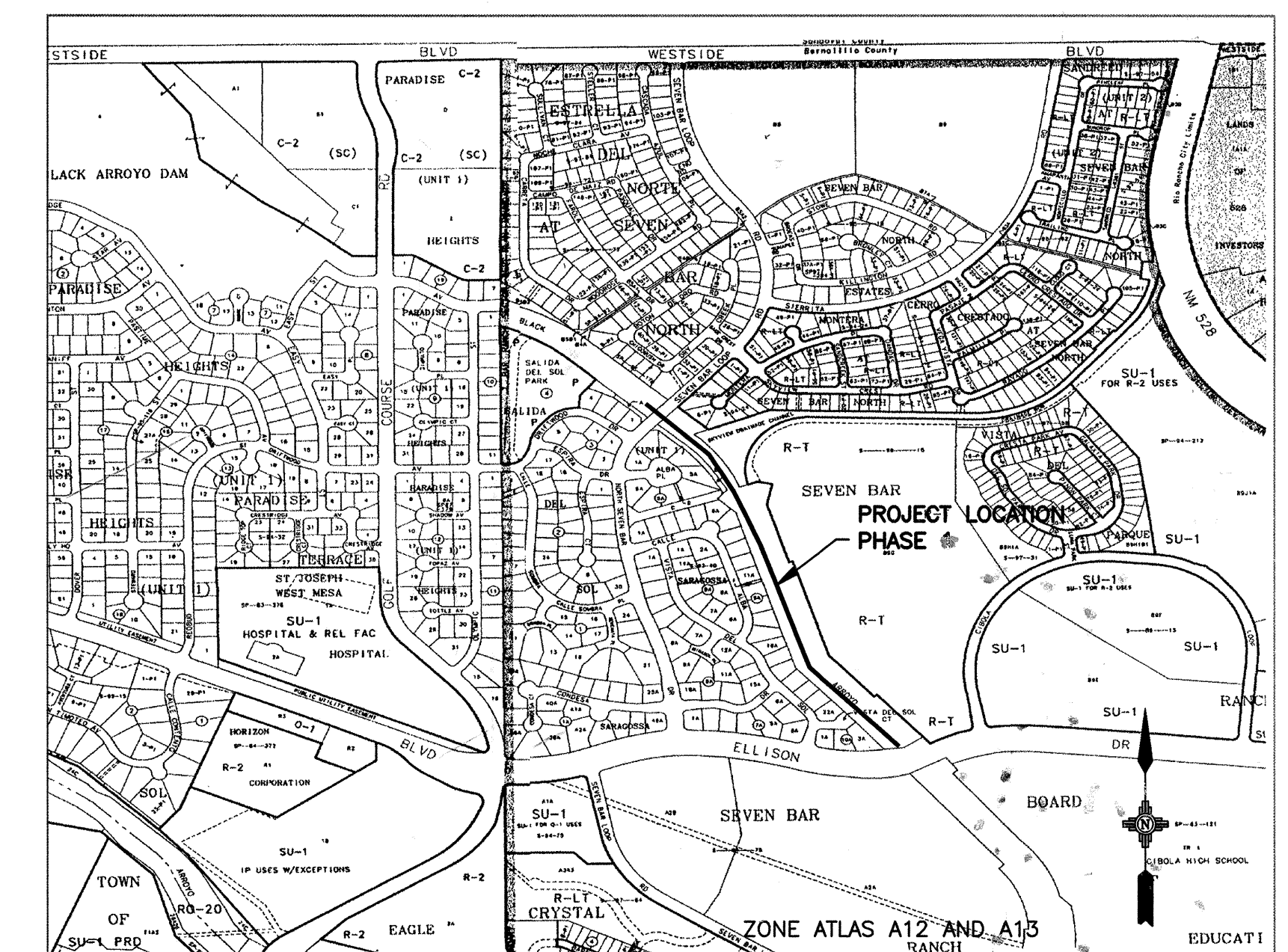
THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND ACTIVITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

WARNING

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

WARNING

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THRU UPDATE NO. 6.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER, AND SHALL BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH RON FERNANDEZ, OF AMAFCA AT 884-2215, AND OBTAIN APPROVAL PRIOR TO STARTING ANY ACTIVITIES NEAR AND/OR IN THE BLACK ARROYO CHANNEL.
- PRIOR TO ENTRY ONTO AMAFCA PROPERTY, A CERTIFICATE OF INSURANCE NAMING AMAFCA AS AN ADDITIONAL INSURED, IN THE SAME AMOUNTS AS REQUIRED BY THE CITY, SHALL BE PROVIDED TO AMAFCA.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS IN EXISTING STRIPING LOCATIONS, UNLESS OTHERWISE INDICATED BY THIS PLAN SET.
- ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, OR REMOVAL AND REPLACEMENT OF ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, SIDEWALK, WHEELCHAIR RAMP OR ANY OTHER EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTORS OPERATIONS.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH OSHA 29 CFR 1926.650, SUBPART P.

APPROVED FOR CONSTRUCTION WITHIN THE AMAFCA RIGHT OF WAY
APPROVED BY:

John Kelly 2-7-00
JOHN KELLY, P.E.
EXECUTIVE ENGINEER

PDS Southwest, Ltd.
Planning & Design Solutions
Land Planning • Landscape Architecture • Environmental Services
4830 Juan Tabo Blvd. NE Suite J Albuquerque, NM 87111 (505) 323-5001 FAX (505) 323-5009

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
<i>[Signature]</i>	DRC CHAIR	<i>[Signature]</i>	2-17-00				
	TRANSPORTATION	<i>[Signature]</i>	2-17-00				
	WATER/WASTEWATER	<i>[Signature]</i>	2-17-00				
	HYDROLOGY	<i>[Signature]</i>	2-17-00				
	PARKS	<i>[Signature]</i>	2-17-00				
	CONSTR. METHODS	<i>[Signature]</i>	2-17-00				
	AMAFCA	<i>[Signature]</i>	2-17-00				
	LOSS PREVENTION						
	NMUI		2-3-00				
				CITY PROJECT NO.	631491	SHEET	OF
						1	17



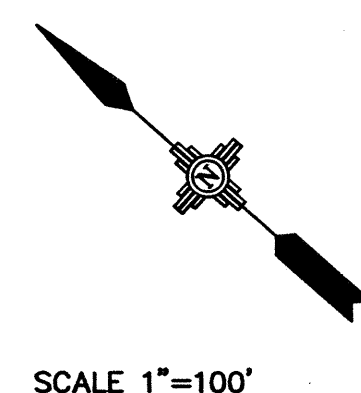
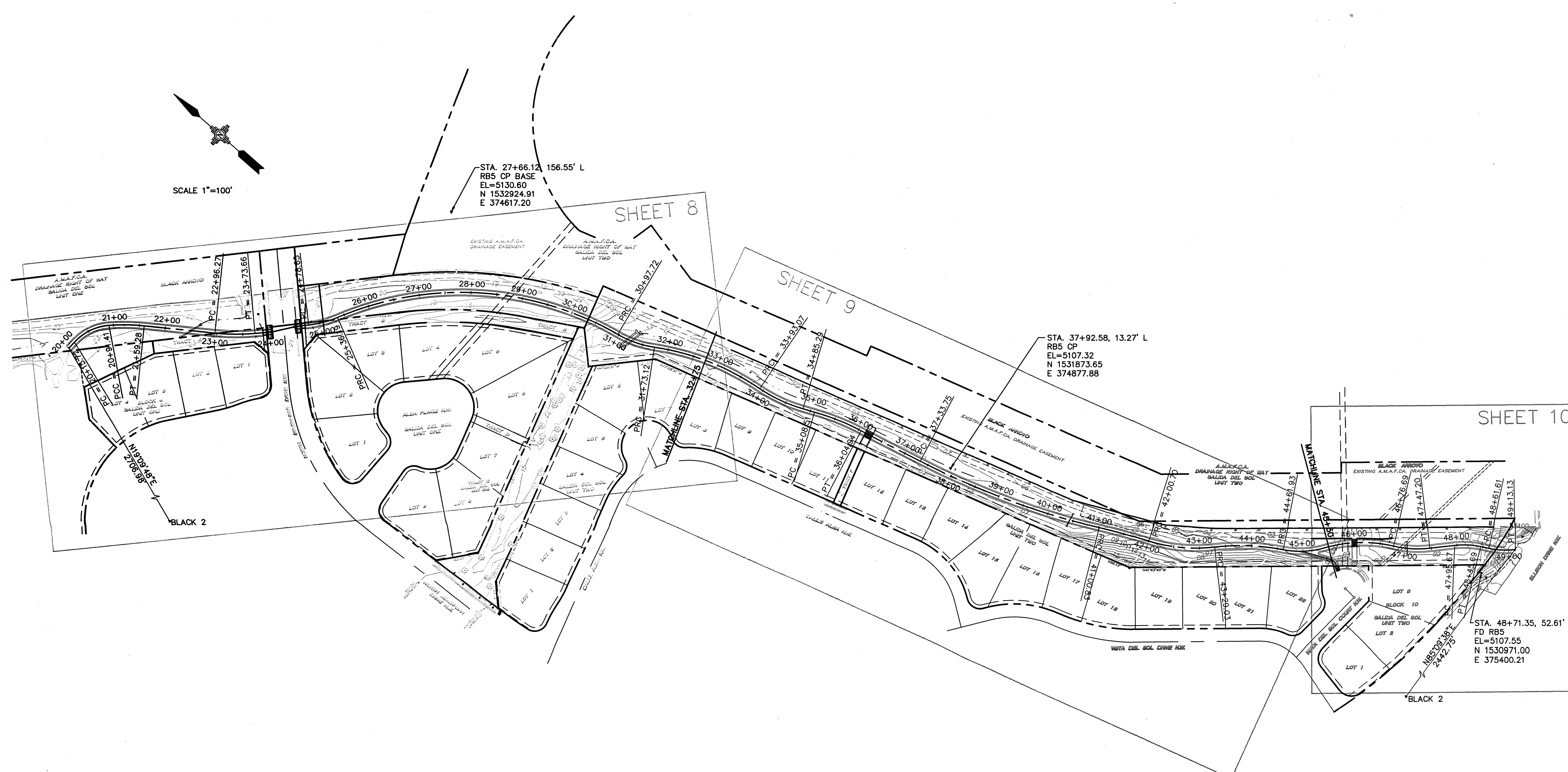
Easterling & Associates, Inc.
CONSULTING ENGINEERS
2600 The American Rd., SE, Suite 100
Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

BLACK ARROYO TRAIL
PLATS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
N/A	N/A			
CITY PROJECT No.	ZONE MAP NO.	SHEET	OF	
631491	A-13	3	17	

[illegible]



STA. 27+66.12 156.55' L
RB5 CP BASE
EL=5130.60
N 1532924.91
E 374617.20

STA. 37+92.58, 13.27' L
RB5 CP
EL=5107.32
N 1531873.65
E 374877.88

STA. 48+71.35, 52.61' R
FD RB5
EL=5107.55
N 1530971.00
E 375400.21

PDS Southwest, Ltd.
Planning & Design Solutions
Land Planning • Landscape Architecture • Environmental Services
4850 Juan Tabo Blvd., NE Suite 2
Albuquerque, NM 87111 FAX (505) 325-5009

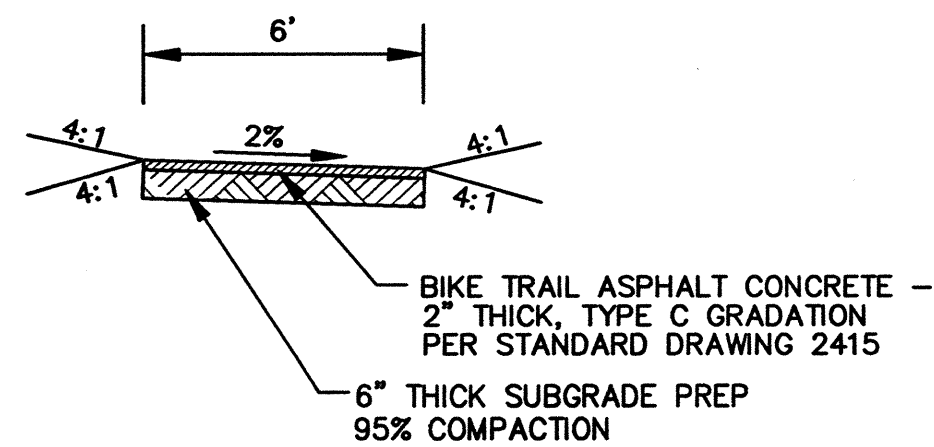
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
**BLACK ARROYO TRAIL
OVERALL CONTROL SHEET**

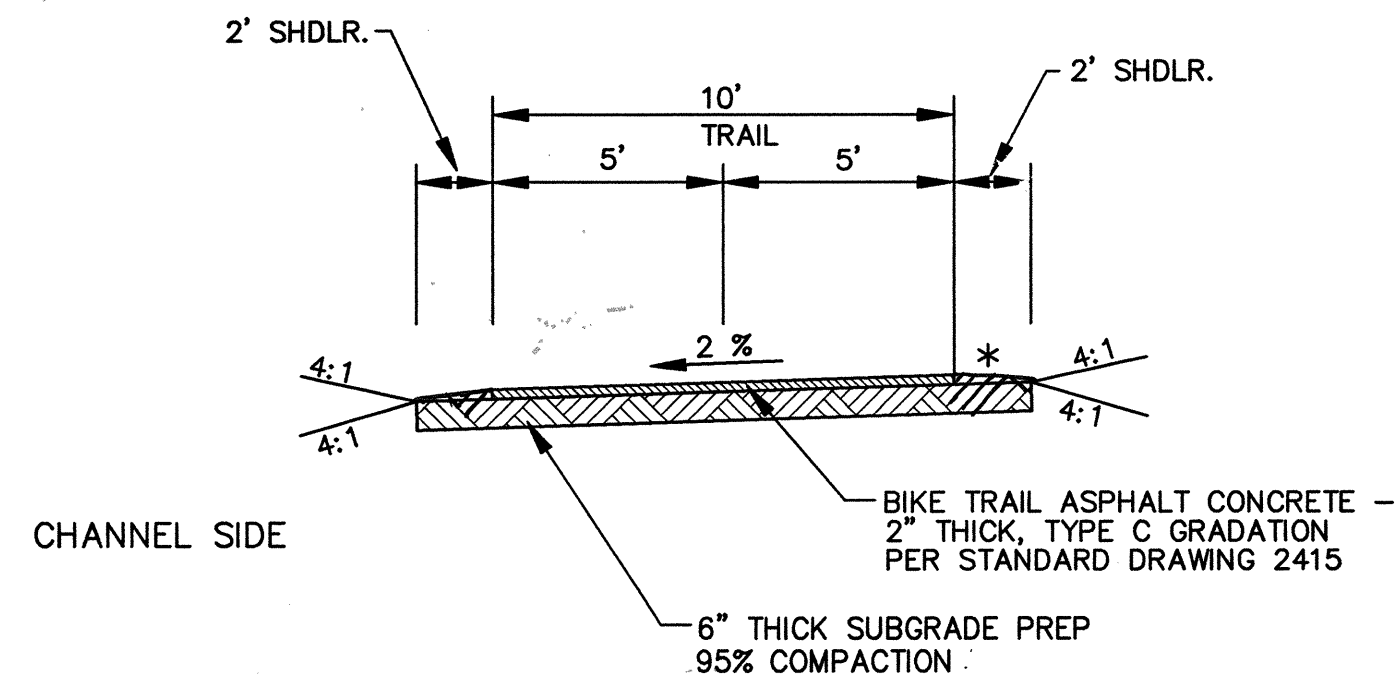
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		Mo./DAY/YR.		
APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE	APPROVED FEB 17 2000 CITY ENGINEER	LAST DESIGN UPDATE				
CITY PROJECT No.		ZONE MAP NO.		SHEET OF		
631491		A-13		6 17		

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ENC. CONTROL Dwg. PART 1: Project A-1310 (Dwg. PWSM50V)
ENC. CONTROL Dwg. PART 2: Project A-1310 (Dwg. PWSM50V)

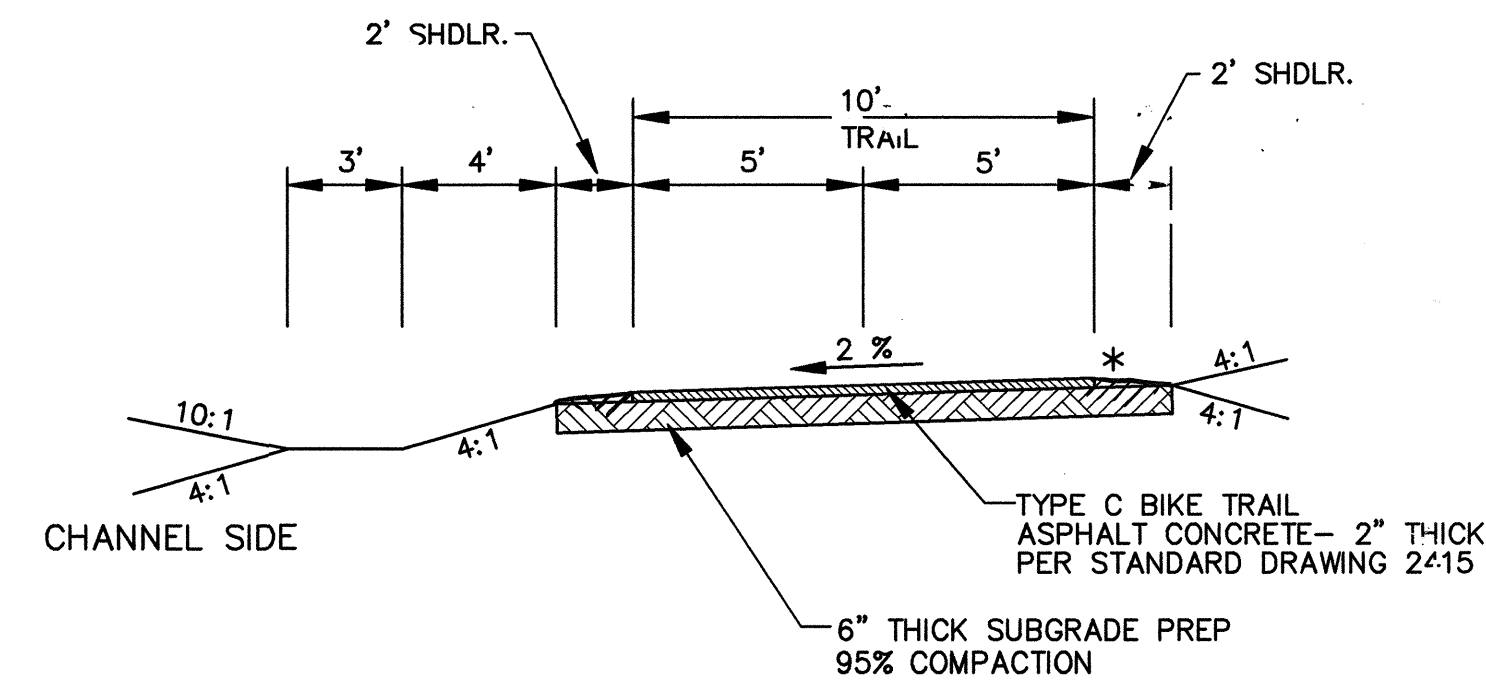


ASPHALT RAMP SECTION
N.T.S.



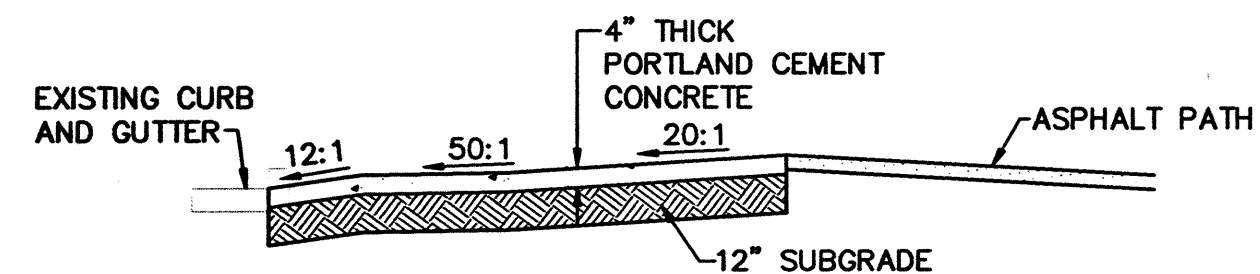
TYPICAL TRAIL SECTION
N.T.S.

STA. 20+00.00 TO STA. 23+88.66
STA. 41+00.00 TO STA. 49+00.00
STA. 49+00.00 TO STA. 49+17.42 TRANSITION TO MATCH EXISTING
* STA. 47+50 TO 49+17.42 4" THICK PAVEMENT REQUIRED

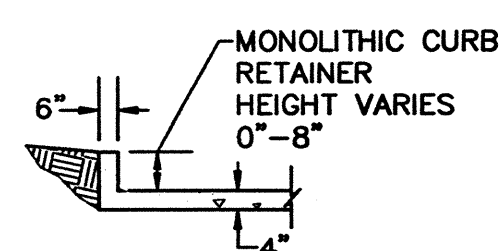


TYPICAL TRAIL SECTION
N.T.S.

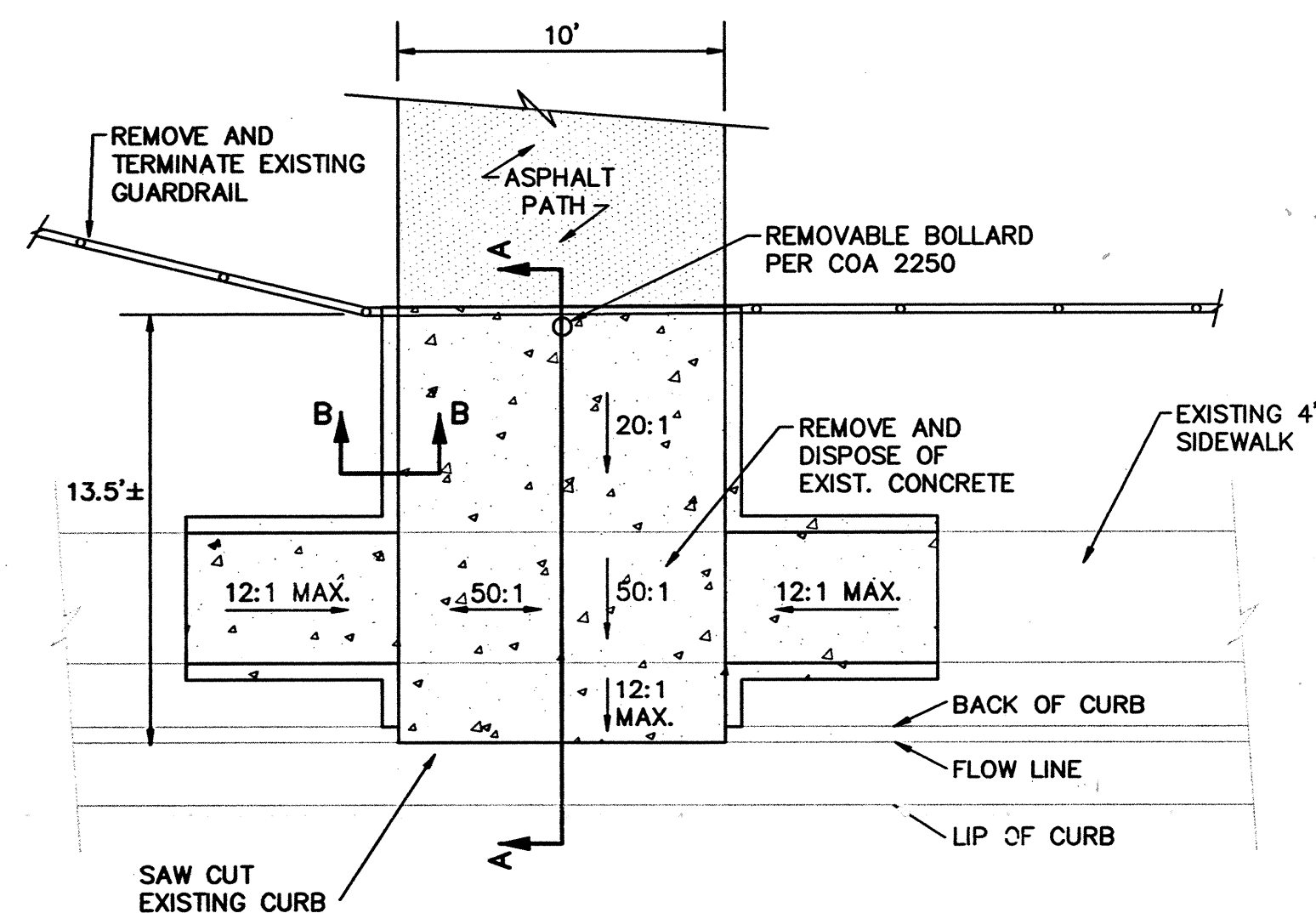
STA. 24+71.65 TO STA. 40+50.00
* STA. 30+00 TO 31+50 4" THICK PAVEMENT REQUIRED



SECTION A-A

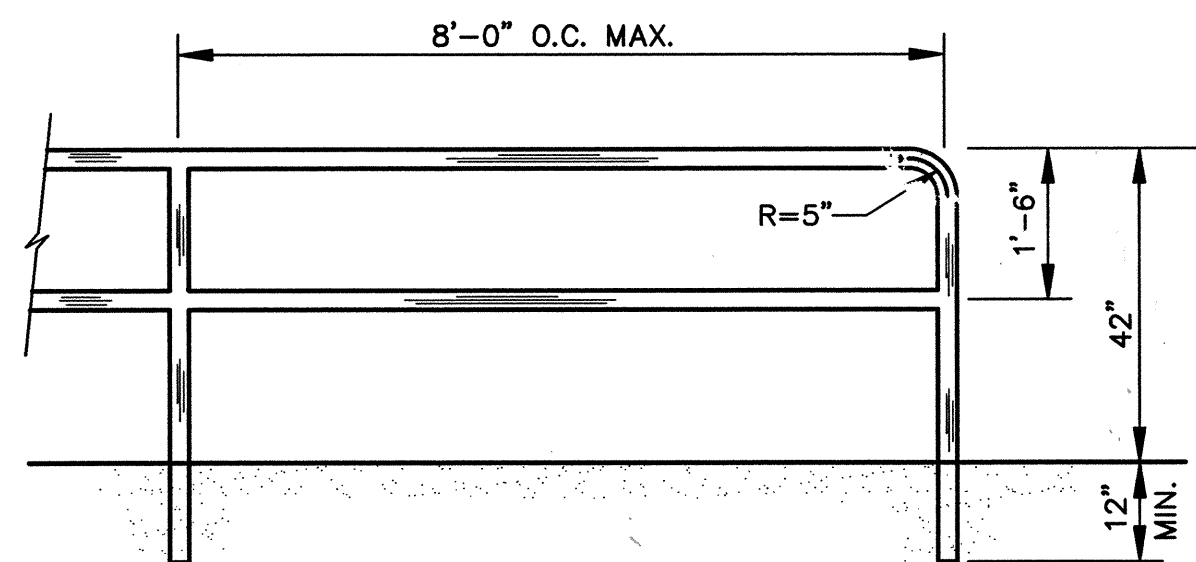


SECTION B-B



RAMP DETAIL
N.T.S.

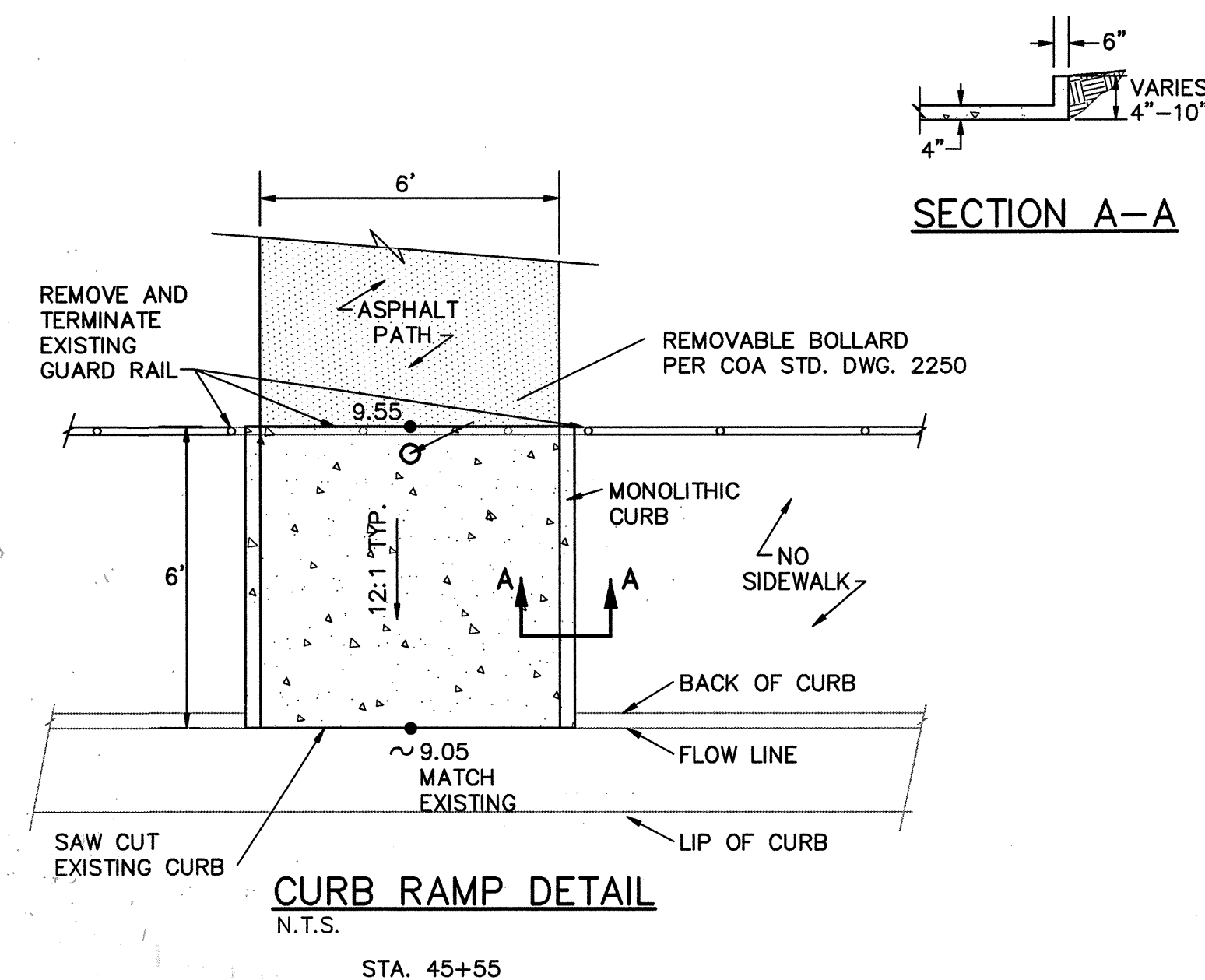
STA. 24+04 AND STA. 24+57



HANDRAIL DETAIL
N.T.S.

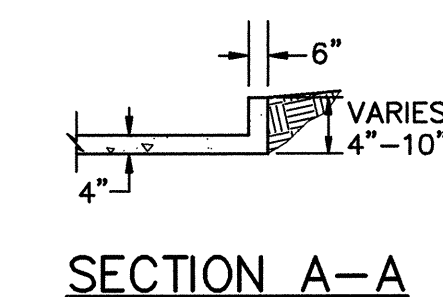
HANDRAIL NOTES:

1. SET 1-1/4" STEEL POSTS INTO 2" CORED HOLE IN CONCRETE A MINIMUM OF 12" DEEP AND FILL REMAINING VOID WITH A NONSHRINKING, QUICK SETTING GROUT (SUCH AS BURKE STONE) TO 1/2" BELOW FINISHED SURFACE. FILL THE LAST 1/2" OF VOID WITH A POLY-URETHANE SEALING MATERIAL. FOLLOW MANUFACTURER'S DIRECTIONS FOR ALL MATERIALS USED. MAINTAIN HANDRAIL HEIGHT SHOWN.
2. WELD AND GRIND SMOOTH ALL JOINTS; PRIME THE FABRICATED PIECES COMPLETELY WITH RED OXIDE PRIMER AND FINISH AS DIRECTED BY THE ARCHITECT.
3. POSTS TO BE PLACED AT ALL HORIZONTAL AND VERTICAL ANGLE POINTS, AND AT 8'-0" O.C. MAX ON STRAIGHT RUNS.



CURB RAMP DETAIL
N.T.S.

STA. 45+55



SECTION A-A

PDS Southwest, Ltd.
Planning & Design Solutions
Last Planning • Landscape Architecture • Environmental Services
4650 Alameda Blvd., NE Suite J Albuquerque, NM 87111 (505) 323-5001 FAX (505) 323-5009

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Rio Rancho, New Mexico 87124
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

BIACI APPOYO
TYPICAL SECTIONS AND DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE	APPROVED FEB 17 2000 CITY ENGINEER		
CITY PROJECT No.	ZONE MAP No.	SHEET	OF
631491	A-13	7	17

CONTRACTOR	INSPECTOR	DATE
WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

CONTRACTOR	INSPECTOR	DATE
WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

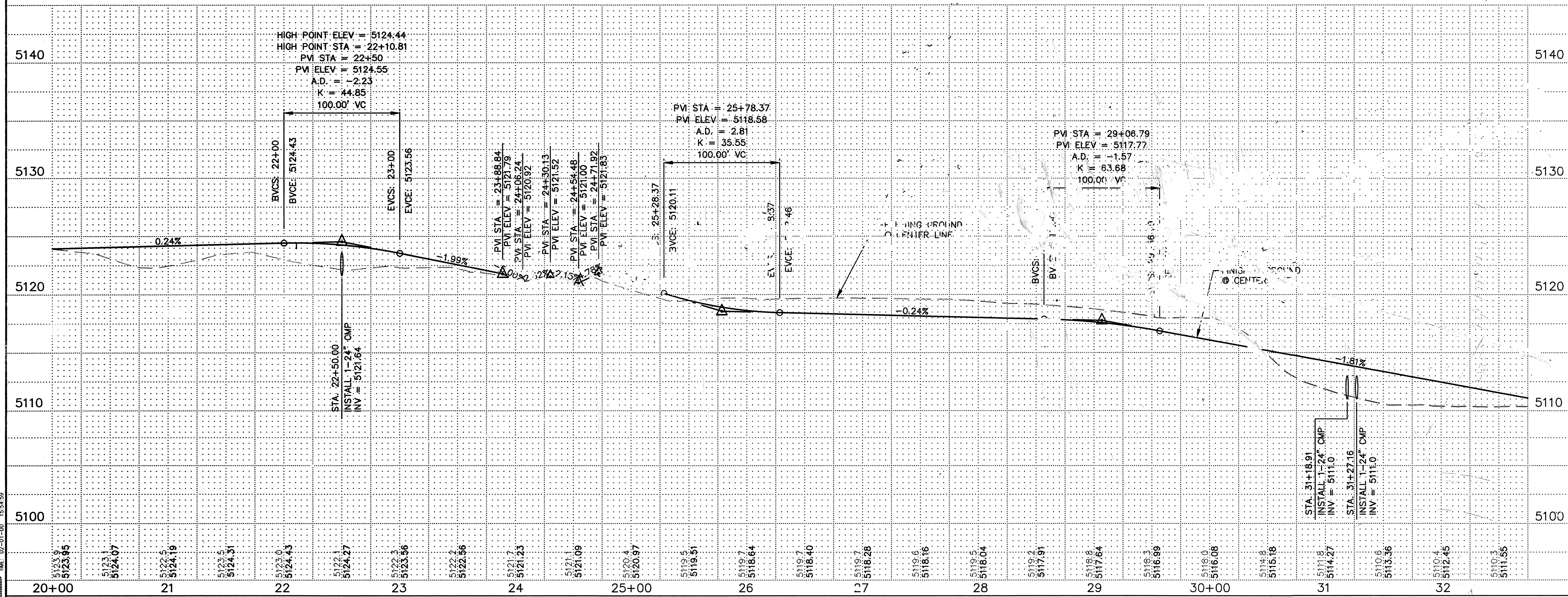
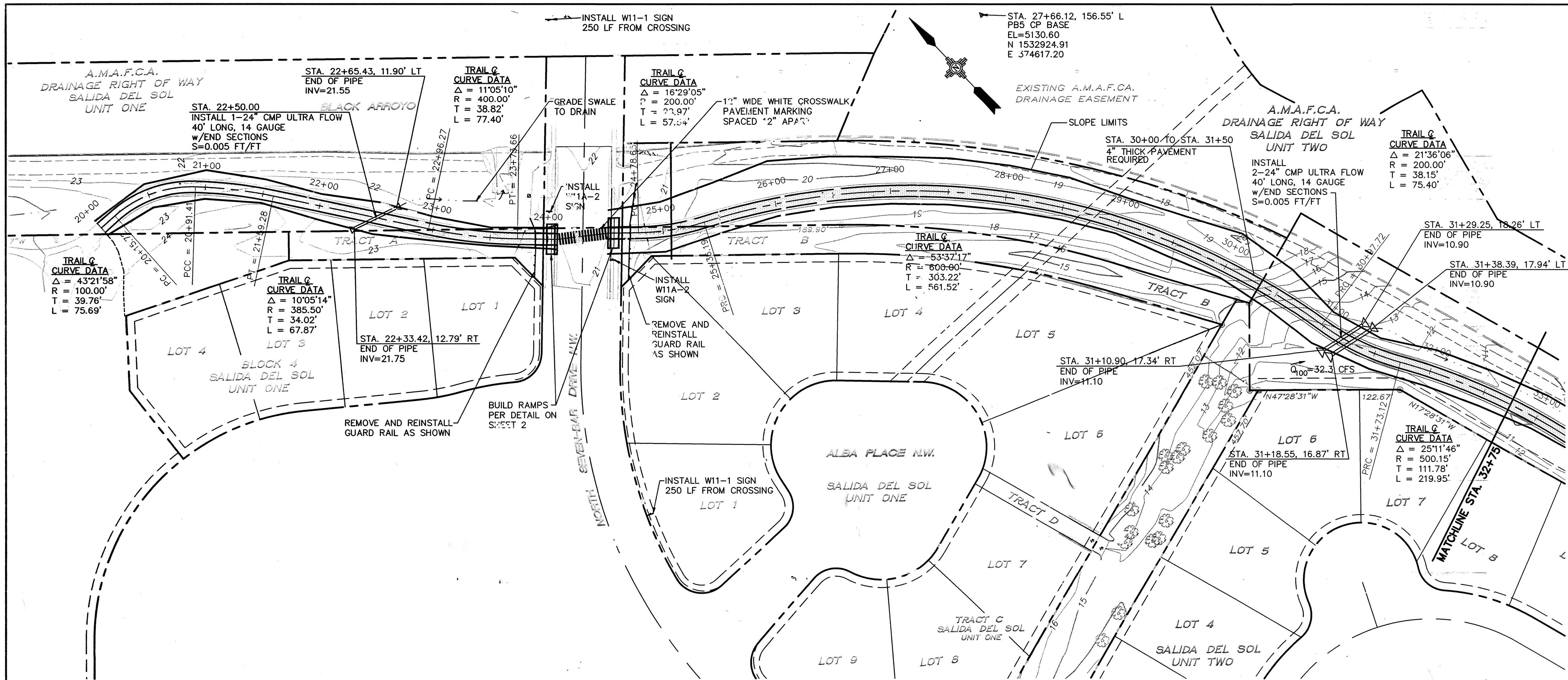
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WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

CONTRACTOR	INSPECTOR	DATE
WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

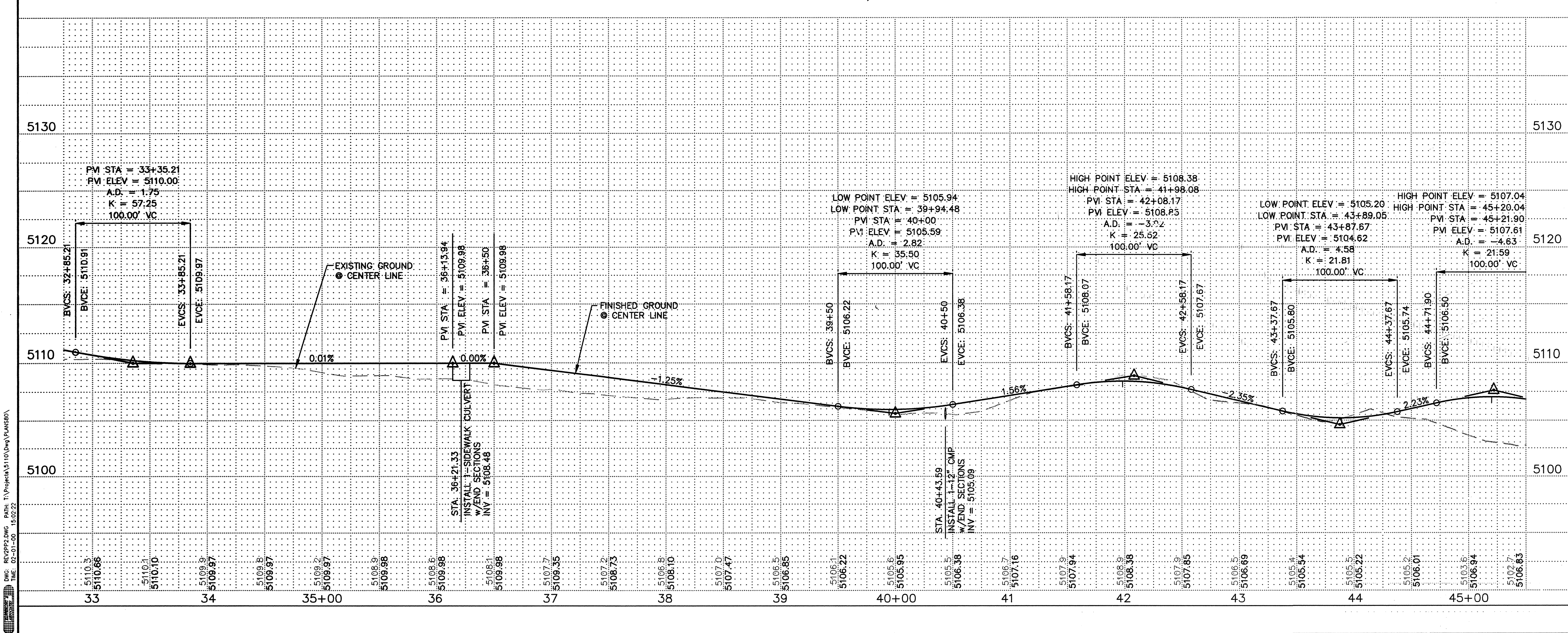
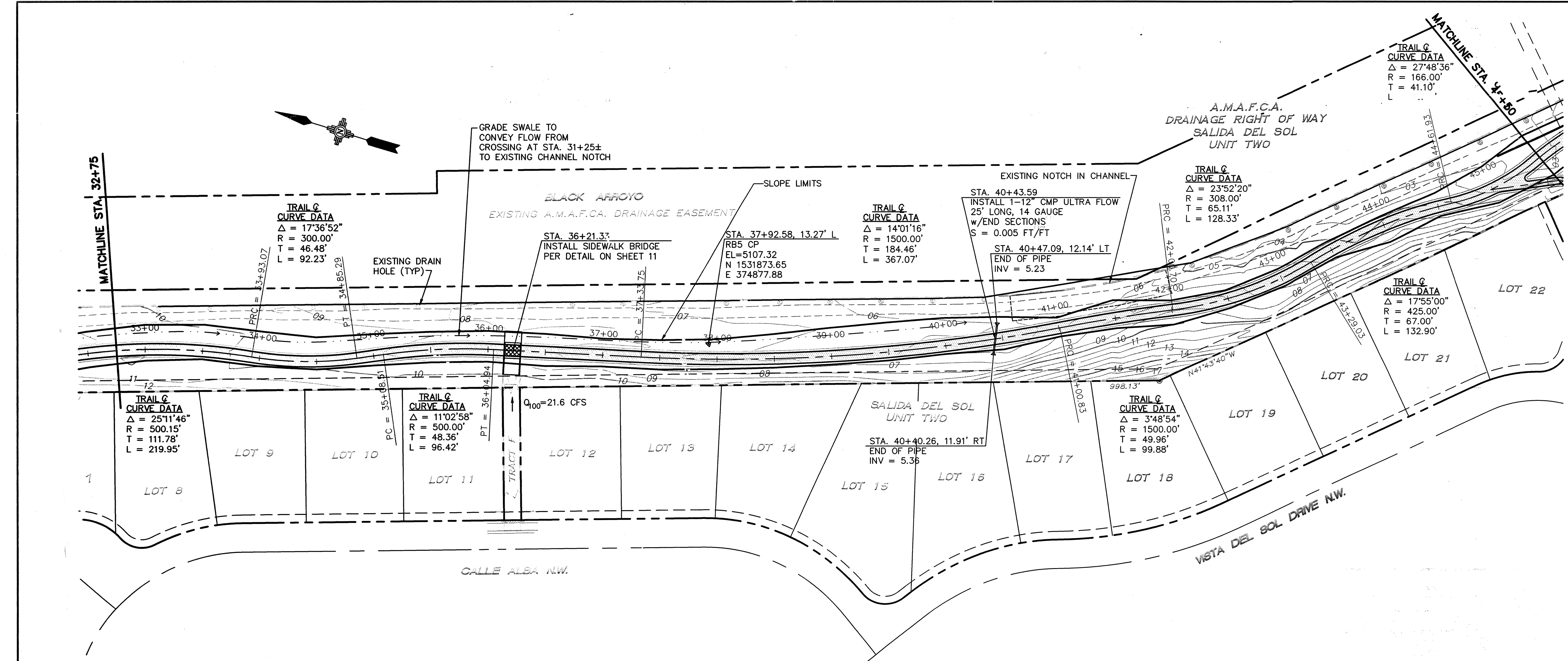
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WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

CONTRACTOR	INSPECTOR	DATE
WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY

CONTRACTOR	INSPECTOR	DATE
WORK	ACCEPTANCE BY	DATE
REVISIONS	DATE	BY
DESIGN	DATE	BY
REVISIONS	DATE	BY
DESIGN	DATE	BY



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
DATE		FIELD NOTES		PROJECT BENCHMARK: USGS BRASS TABLET		CONTRACTOR	
BY		NO.		STAMPED: BLACK-2 1977 SET FLUSH WITH THE GROUND. ELEVATION 5213.926		WORK	
REVISIONS		DATE		STATE PLANE COORDINATES		INSURANCE	
DESIGN		BY		N=1,530,241.52		ACCEPTANCE BY	
DATE		DATE		E=372,920.43		DATE	
DESIGNED BY		DATE				DRAWINGS	
DRAWN BY		DATE				CORRECTED BY	
CHECKED BY		DATE				MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO.	
SCALE: 1" = 50' HORIZ. 1" = 5' VERT.							
PDS Southwest, Ltd. Planning & Design Solutions Land Planning • Landscape Architecture • Environmental Services 4850 Juan Tabo Blvd., NE Suite 2 Albuquerque, NM 87111 FAX (505) 323-5009							
Fasterling & Associates, Inc. CONSULTING ENGINEERS 2600 The Arroyo Rd., SE, Suite 100 Rio Rancho, New Mexico 87124 (505) 898-8021 FAX (505) 898-8501							
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP							
BLACK ARROYO TRAIL REVISIONS 2/NEW PATH							
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		Mo./DAY/YR.		Mo./DAY/YR.	
APPROVE FEB 17 2000		APPROVE FEB 17 2000					
DESIGN REVIEW COMMITTEE		CITY ENGINEER					
CITY PROJECT No. 631491		ZONE MAP No. A-13		SHEET 8		OF 17	



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**BLACK ARROYO TRAIL
REVISIONS 2/NEW PATH**

DESIGN REVIEW COMMITTEE
APPROVE
FEB 17 2000
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVE
FEB 17 2000
CITY ENGINEER

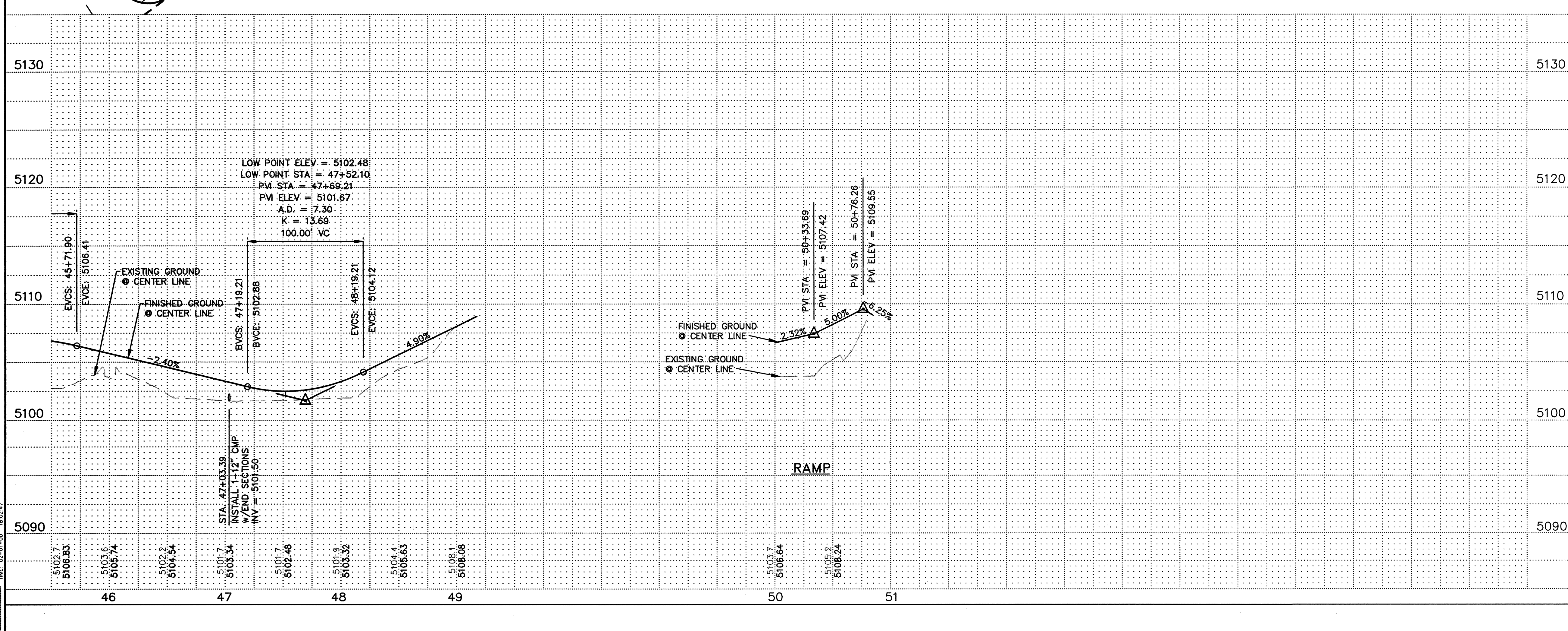
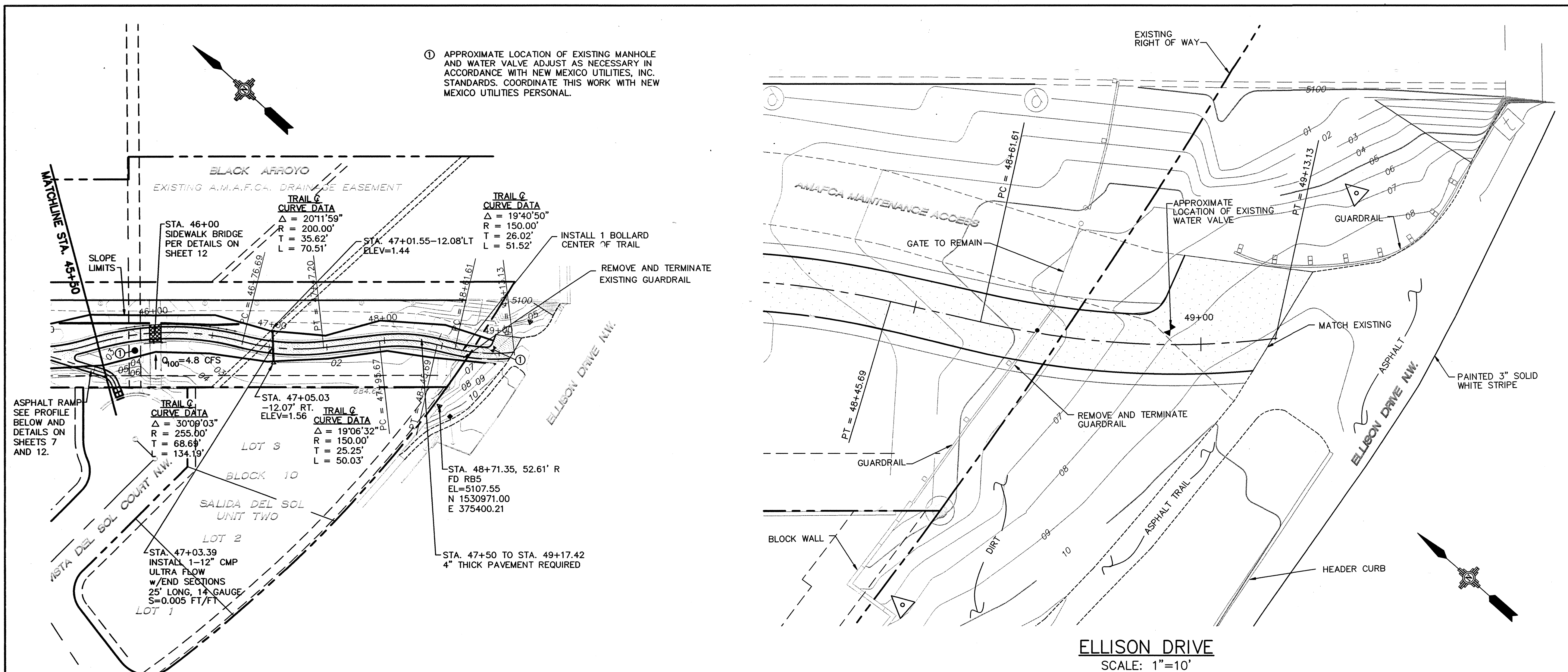
Mo./DAY/YR.	Mo./DAY/YR.

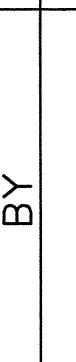
Mo./DAY/YR.	Mo./DAY/YR.

CITY PROJECT No. 631491 ZONE MAP No. A-13 SHEET 9 OF 17

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
DATE	BY	PROJECT BENCHMARK	USGS BRASS TABLET	CONTRACTOR	WORK
		STAMPED 'BLACK-2 1977' SET FLUSH WITH THE			
		GROUND, ELEVATION 5213.926			
		STATE PLANE COORDINATES			
		N=1,530,241.52			
		E=372,920.43			

ENGINEER'S SEAL		REVISIONS		MICRO-FILM INFORMATION	
NO.	DATE	REMARKS	DESIGNED BY	DATE	RECORDED BY
			DH	1/00	
			AMB/DWG	1/00	
			DH	1/00	

[illegible]

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
 2-2-00		FIELD NOTES					
		NO.	BY	DATE			
NO.	DATE	REMARKS	BY				
REVISIONS							
DESIGN							
DESIGNED BY	DH	DATE	1/00				
DRAWN BY	AMB/DWG	DATE	1/00				
CHECKED BY	DH	DATE	1/00				
CONTRACTOR							
WORK STARTED BY							
INSPECTOR'S FIELD							
FIELD PRICE BY				DATE			
VERIFICATION BY				DATE			
CORRECTED BY				DATE			
MICRO-FILM INFORMATION							
RECORDED BY				DATE			
NO.							

EQUATION STATION
 STA. 44+98.53 MAIN TRAIL
 STA. 50+00.00 RAMP
 ELEV = 6.93

RETAINING WALL
 PER SCHEDULE AND
 TYPICAL SECTION THIS SHEET

EXISTING A.M.A.F.C.A. DRAINAGE EASEMENT

BLACK ARROYO

WARP TRAIL
 EACH SIDE TO
 MATCH BRIDGE

BLACK ARROYO
 CHANNEL
 VERT. WALL

RETAINING WALL
 PER SCHEDULE AND
 TYPICAL SECTION THIS SHEET

MAINTENANCE ROAD

PC STA. 50+33.69, 3' L
 ELEV = 7.36

PT STA. 45+31.08, 7' RT
 ELEV = 7.11

STA. 45+90 TO STA. 46+10 RT
 BUILD HAND RAIL PER
 DETAIL ON SHEET 2

STA. 45+70 TO STA. 46+70 LEFT
 BUILD HAND RAIL 2 FEET
 OFF EDGE OF ASPHALT TRAIL
 PER DETAIL ON SHEET 2

INSTALL SIDEWALK
 BRIDGE PER DETAILS
 ON THIS SHEET

REMOVE EXISTING RUNDOWN
 PRESERVE 24" OF
 EXISTING REINFORCEMENT
 FOR SERVICE CONSTRUCTION
 RUNDOWN PER TYPICAL SECTION

STA. 50+84.26
 FL ELEV = 5109.05
 MATCH EXISTING
 BUILD CONCRETE
 RAMP PER DETAILS
 ON SHEET 2.

PC = 50+58.47
PT = 50+72.23

Δ = 150°49'50"
R = 3.00'
T = 11.53'
L = 7.90'

Δ = 52°33.45"
R = 15.00'
T = 7.41'
L = 13.76'

VISTA DEL SOL COURT N.W.

14'-9"
8"
13'-5"
8"

4"
6"
18"

POINT	STATION
20	46+00.87
21	46+00.79
22	46+00.53
23	46+00.25
24	45+99.95

Diagram illustrating the cross-section of a bridge deck with dimensions and reinforcement details:

- Overall width: 14'-9"
- Deck width (excluding shoulders): 13'-5"
- Shoulder width (each side): 8"
- Deck thickness (top): 4"
- Deck thickness (middle): 6"
- Deck thickness (bottom): 18"
- Reinforcement: #4's @ 12 E.W. (TYP)
- Subgrade: 6" COMPACTED SUBGRADE (95% - ASTM D 1557)

LOW RETAINING WALL - TYPE A
UP TO 2'-0"

[illegible]

POINT	STATION	OFFSET	ELEV		
			FL	TW	TB
20	46+00.87	9.19'LT	3.48 (MATCH EXIST)	N/A	N/A
21	46+00.79	6.97'LT	3.51	5.84	5.71
22	46+00.53	0.00	3.59	N/A	5.79
23	46+00.25	7.00'RT	3.67	5.67	5.87
24	45+99.95	14.05'RT	3.75 (EXIST)	4.80/4.77 (EXIST)	N/A

POINT	STATION	OFFSET	EG	TW	BW
1	45+20	23.55'LT	2.83	3.16	1.67
2	45+30	21.99'LT	2.70	3.16/3.83	1.67
3	45+40	19.86'LT	2.52	3.83/4.50	1.67
4	45+50	17.01'LT	2.60	4.50	1.67
5	45+60	14.46'LT	2.87	4.50/5.17	1.67/2.34
6	45+70	12.37'LT	3.40	5.17	2.34
7	45+80	10.72'LT	4.00	5.17/5.84	2.34/3.01
8	45+90	9.49'LT	4.00	5.84	3.01
9	45+96.21	8.93'LT	3.71	5.84	3.01
10	46+05.88	8.43'LT	3.53	5.84	3.01
11	46+10	8.18'LT	4.00	5.84/5.17	3.01
12	46+20	7.86'LT	4.00	5.17	3.01/2.34
13	46+30	7.94'LT	3.33	5.17/4.50	2.34/1.67
14	46+40	8.43'LT	2.50	4.50	1.67
15	46+50	9.33'LT	2.00	3.83/3.17	1.67/1.0
16	46+60	11.35'LT	1.92	3.17/2.50	1.0
17	46+70	13.82'LT	1.83	2.50	1.0

Diagram illustrating the cross-section of a sidewalk and curb area. The sidewalk is labeled "SAWCUT PRESER REINFOR BOTH S". The curb is labeled "HANDRAIL". The sidewalk width is 14.0± feet. The curb height is 0.5 feet. The sidewalk is labeled "7.05± RUNDOWN" and "SIDEWALK". The curb is labeled "3.75", "3.67", "3.59", "3.51", and "3.48". The sidewalk is labeled "3.48".

SECTION A-A
N.T.S.

4x3x 1/4
BOTH SIDES

SHEET

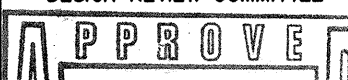
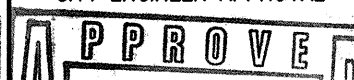
The diagram shows a cross-section of a curb and gutter assembly. A concrete curb is on the left, with a hatched area representing the gutter. The curb has a top width of 8 inches and a height of 18 inches. The gutter is 18 inches deep. The curb is reinforced with #4 DWLS (double wire lap steel) bars, 2'-0" x 1'-6" in size, spaced at 8 inches on center. The gutter is labeled "VARIES". The curb is labeled "C" and the gutter is labeled "C".

8"
VARIES
18"
C
C
#4 DWLS
2'-0" x 1'-6"
TOP & BOTTOM
@ 8" O.C.

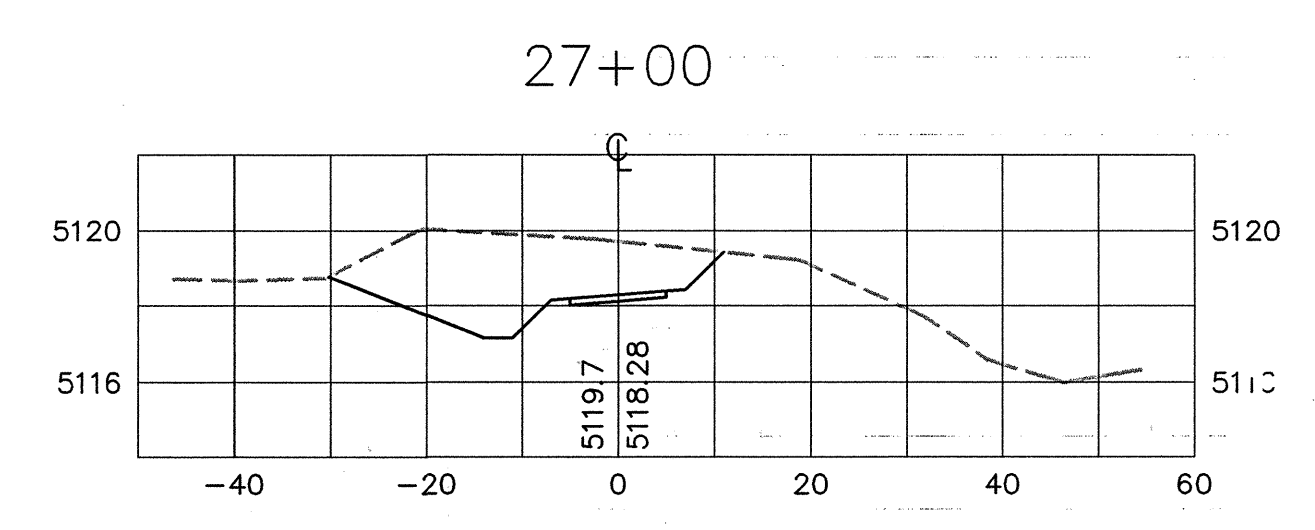
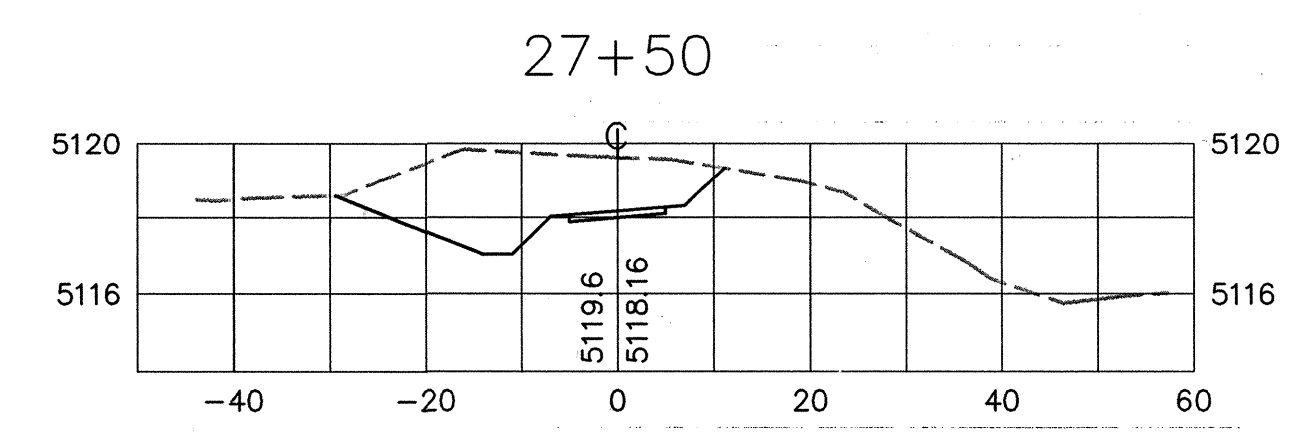
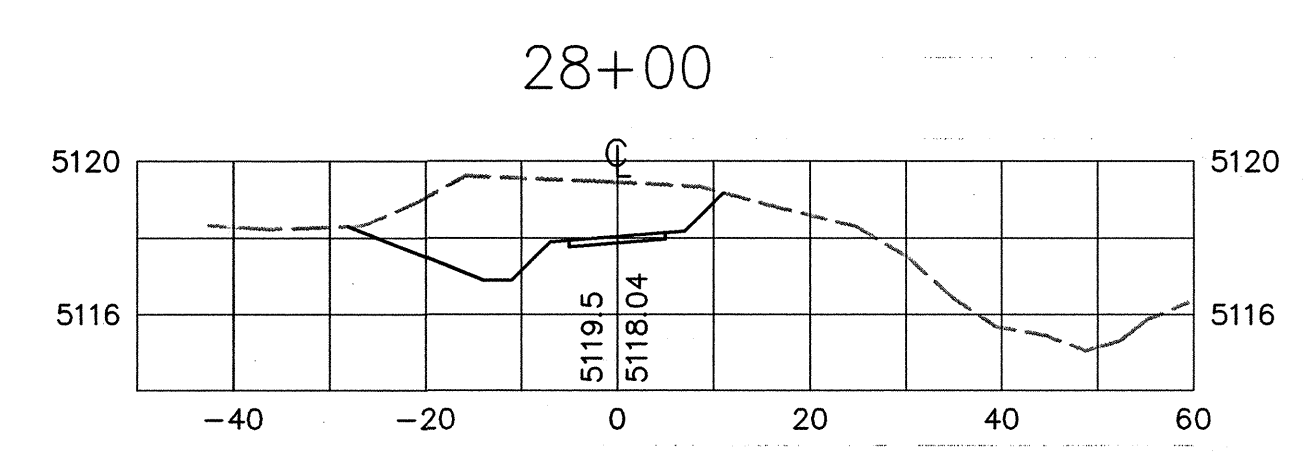
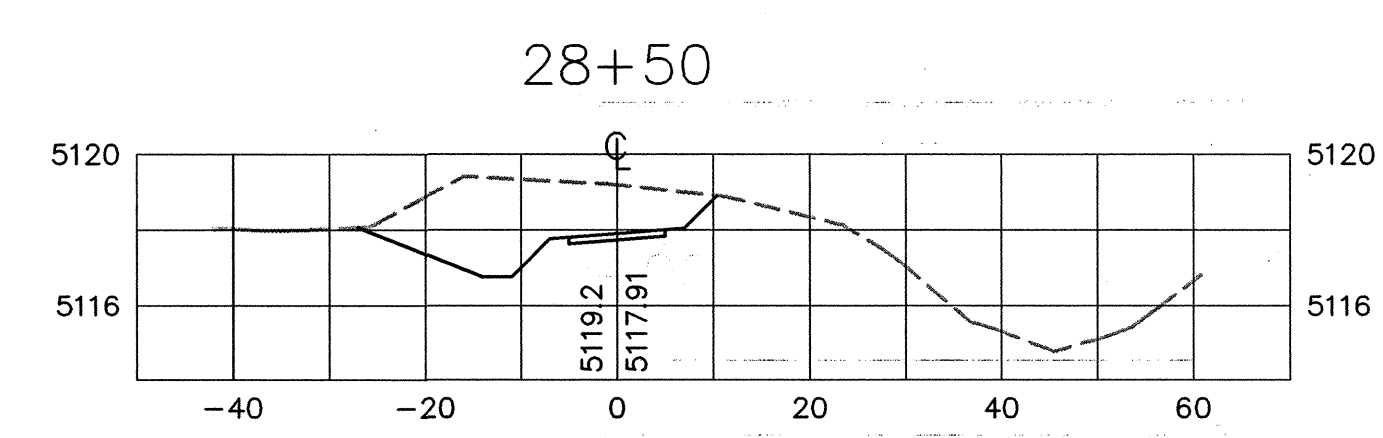
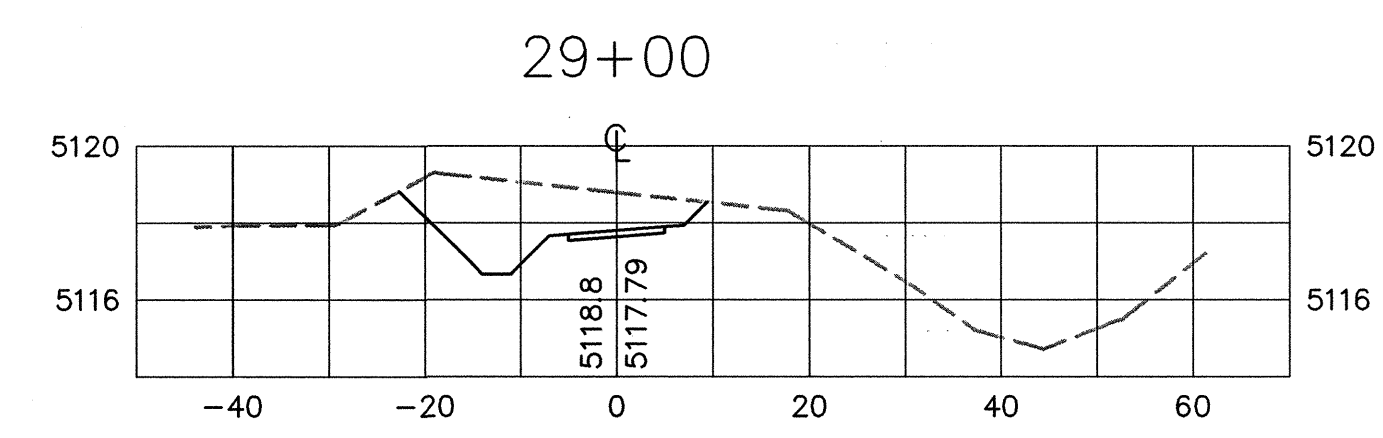
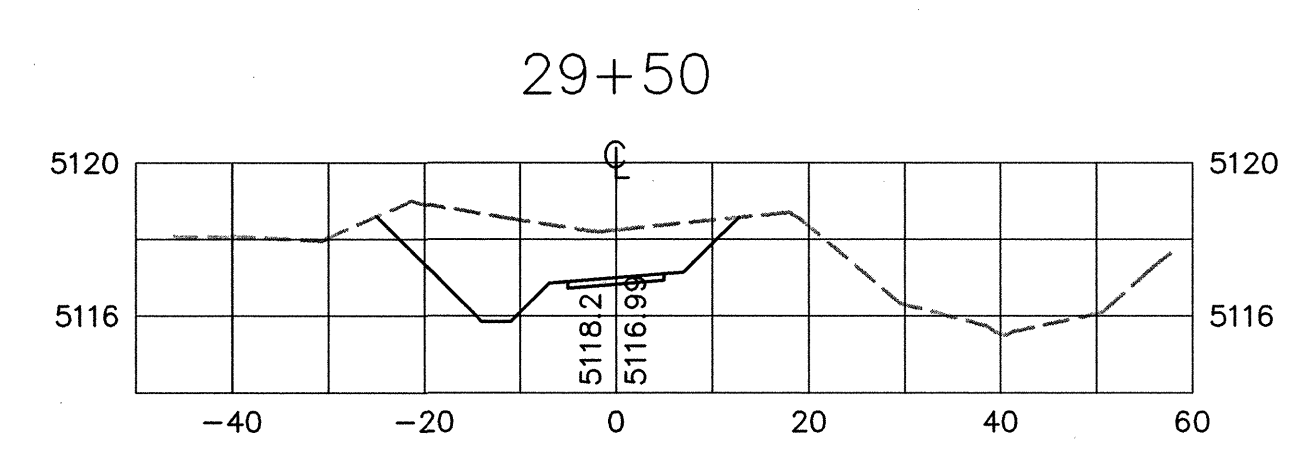
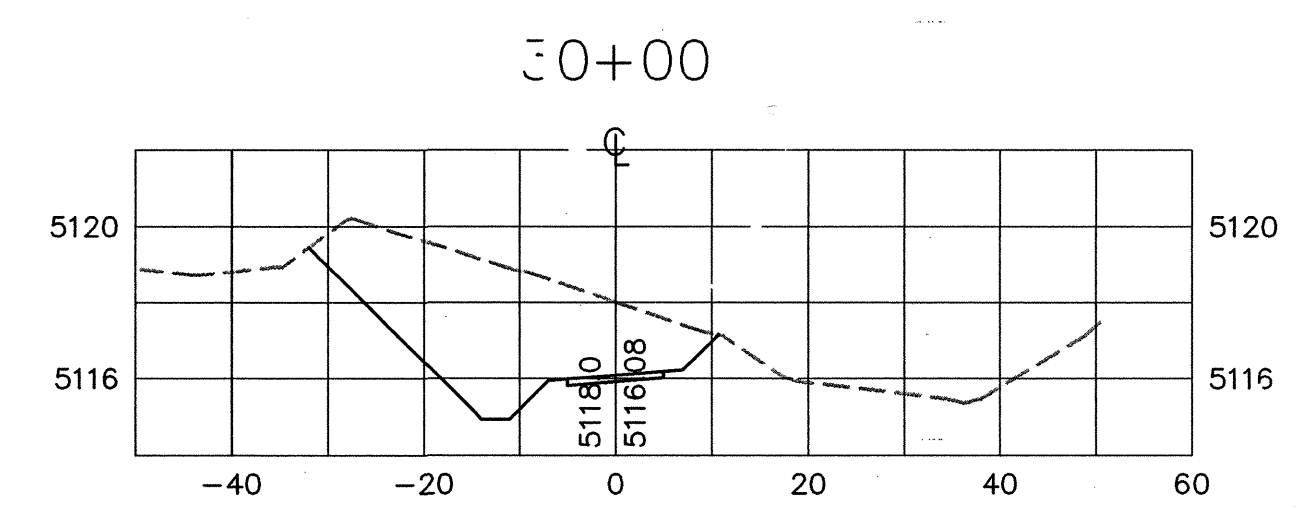
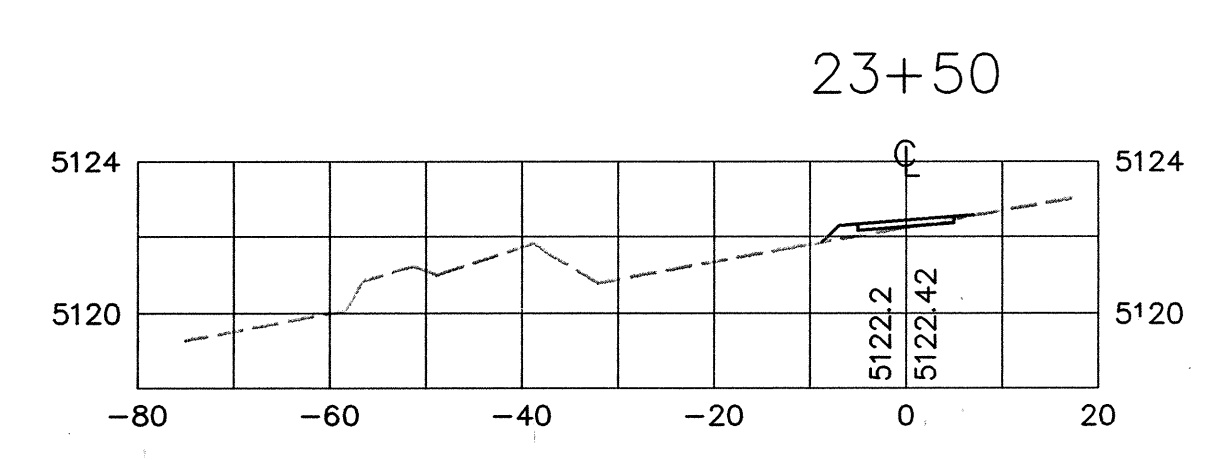
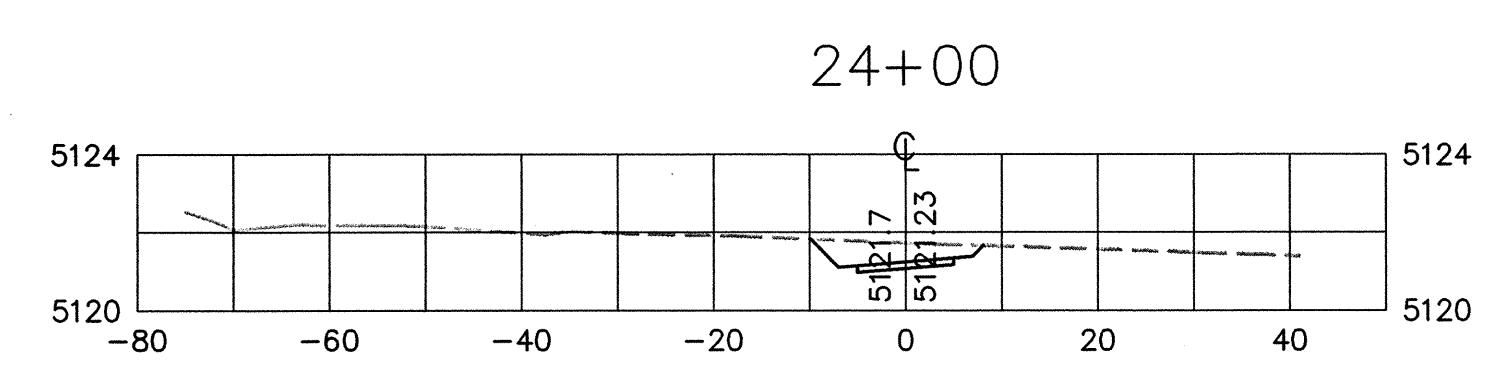
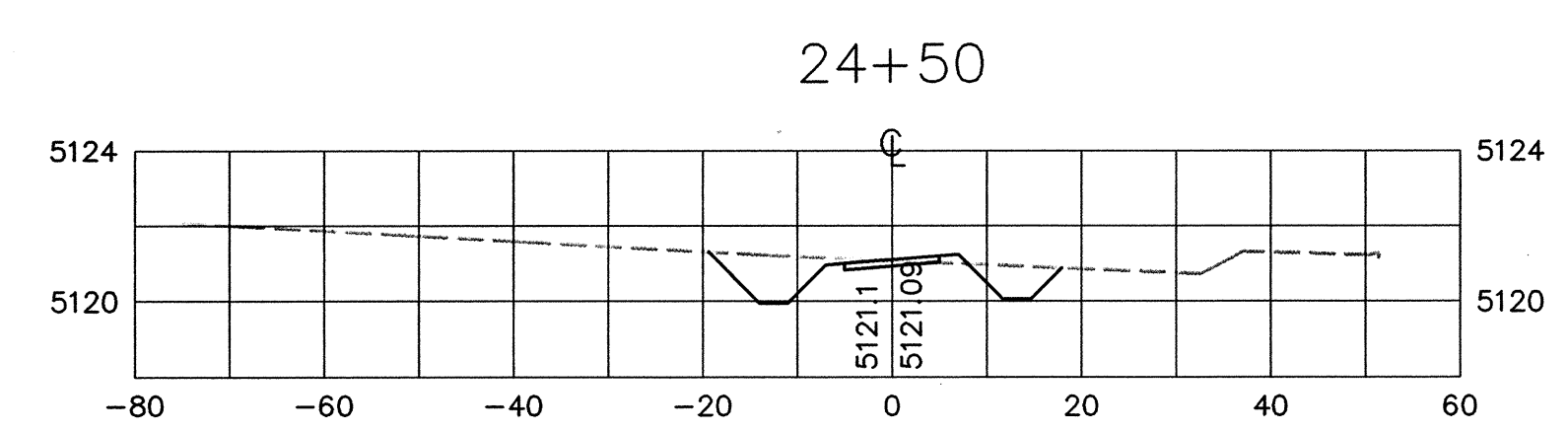
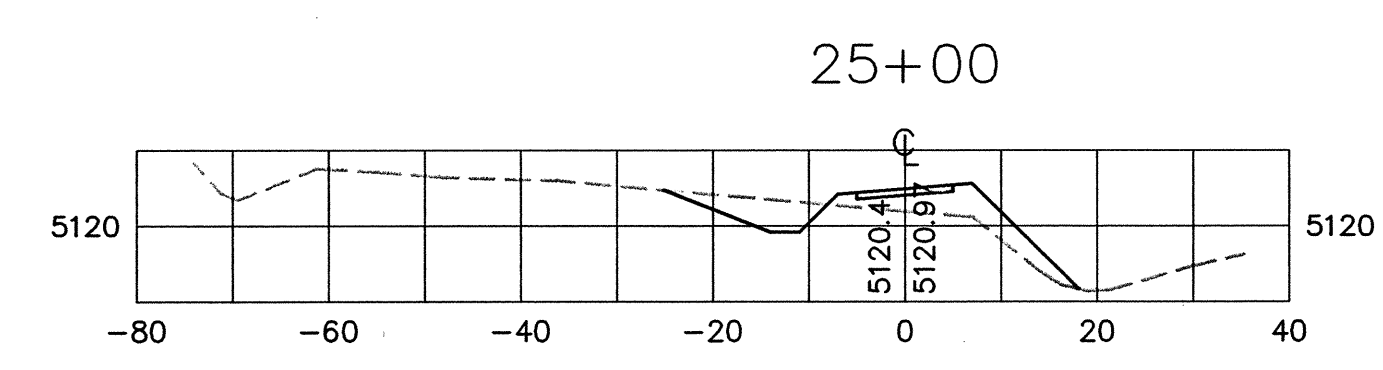
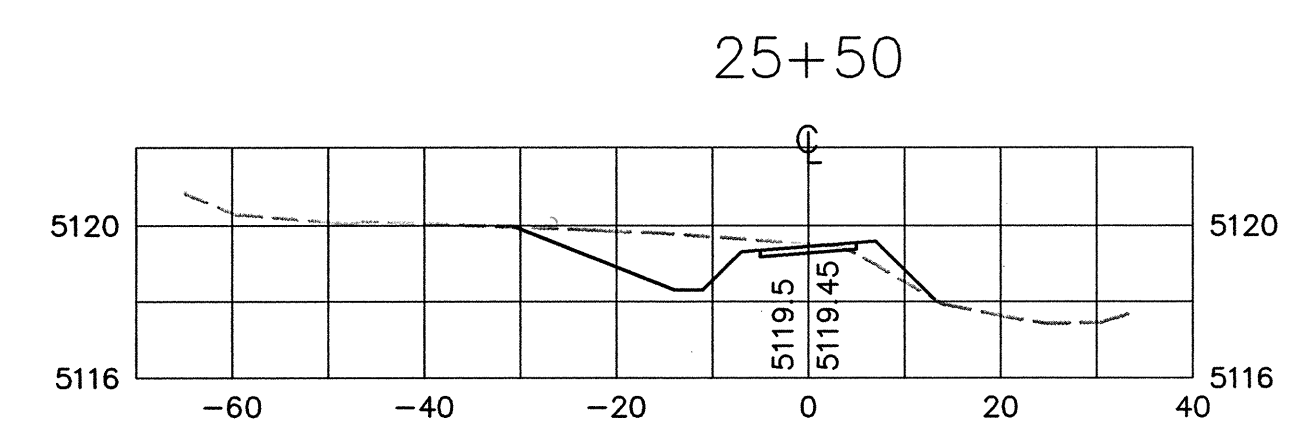
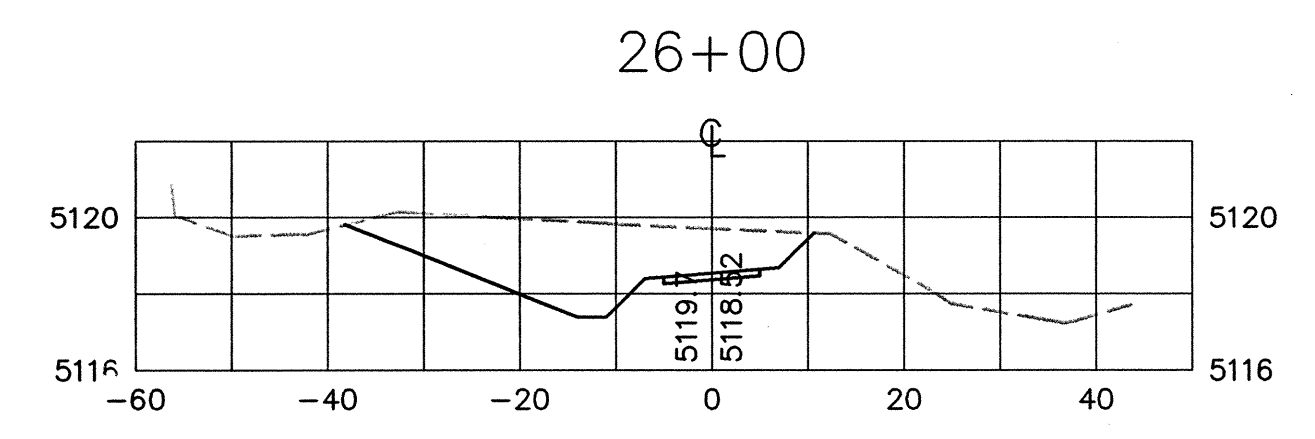
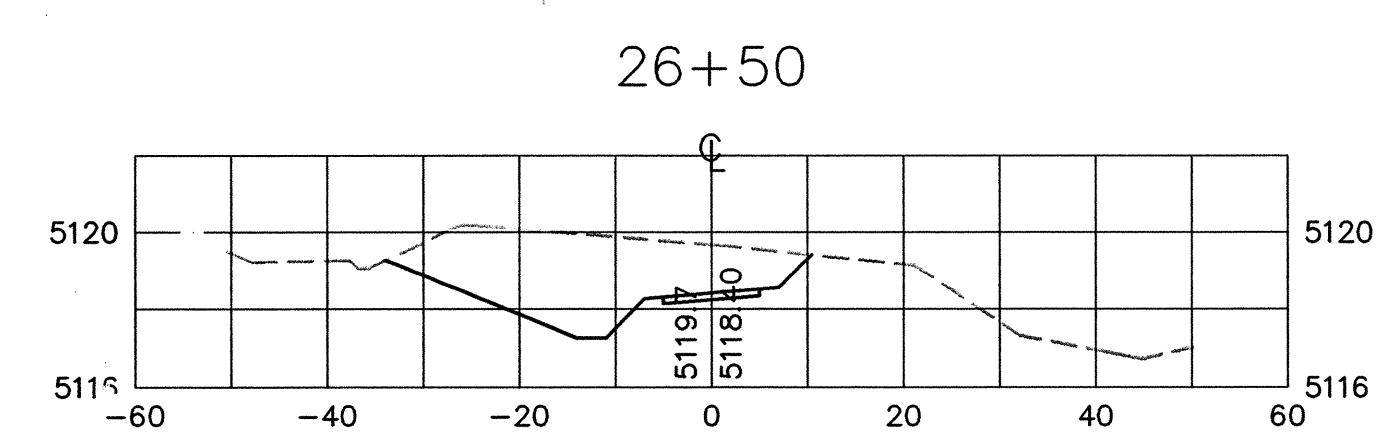
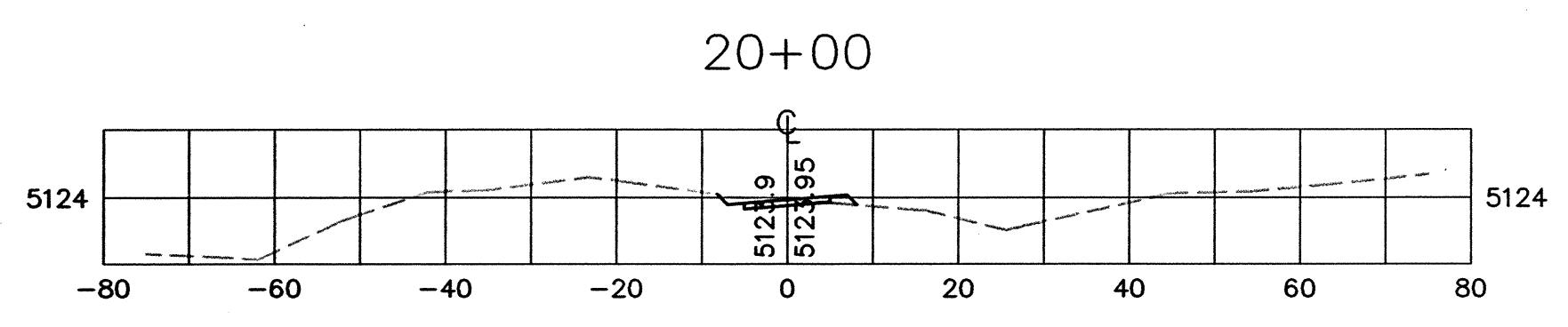
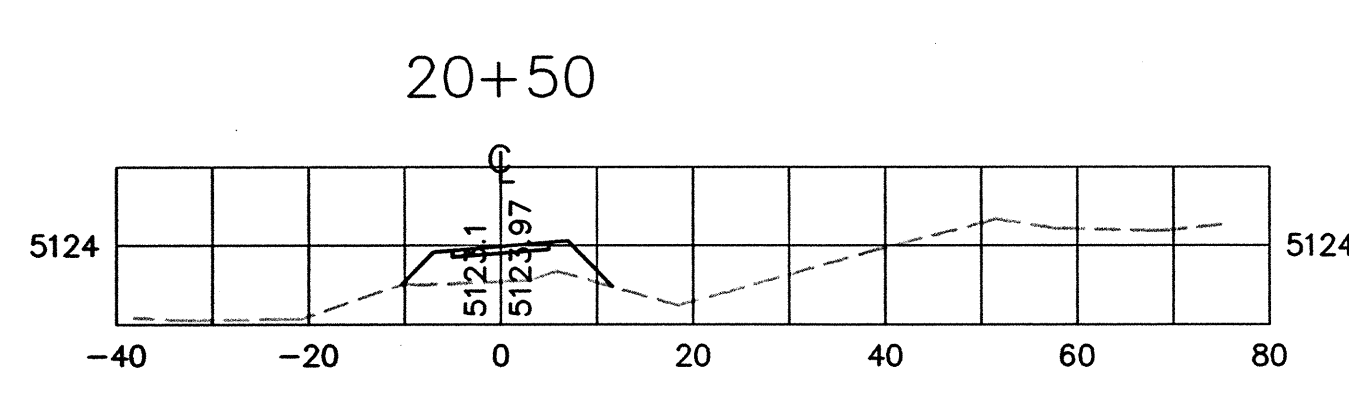
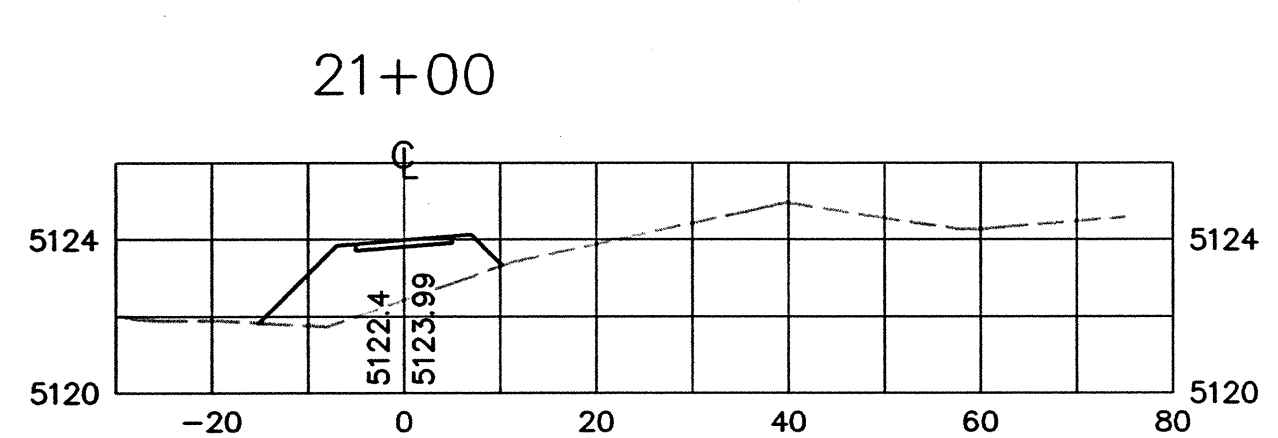
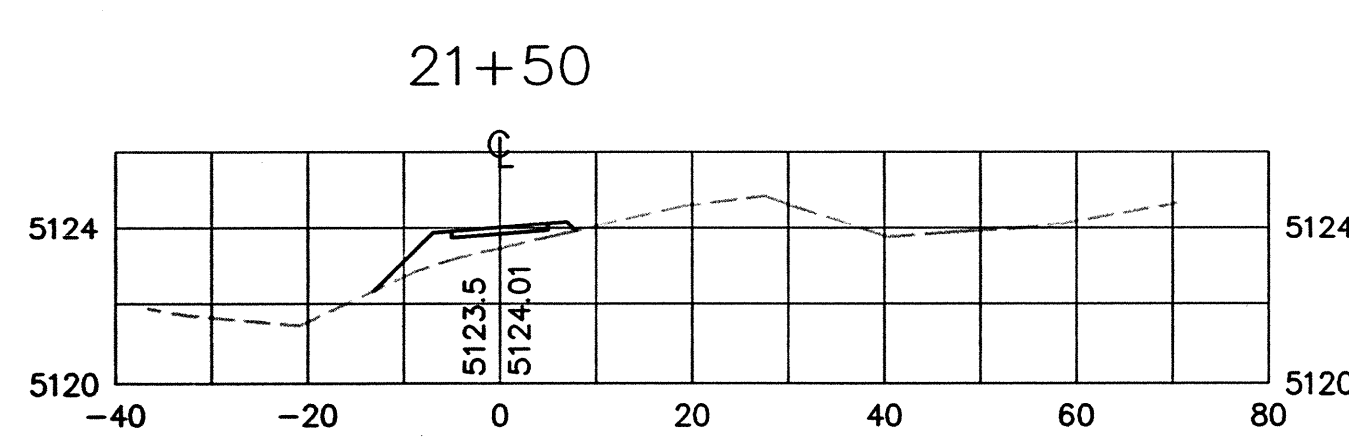
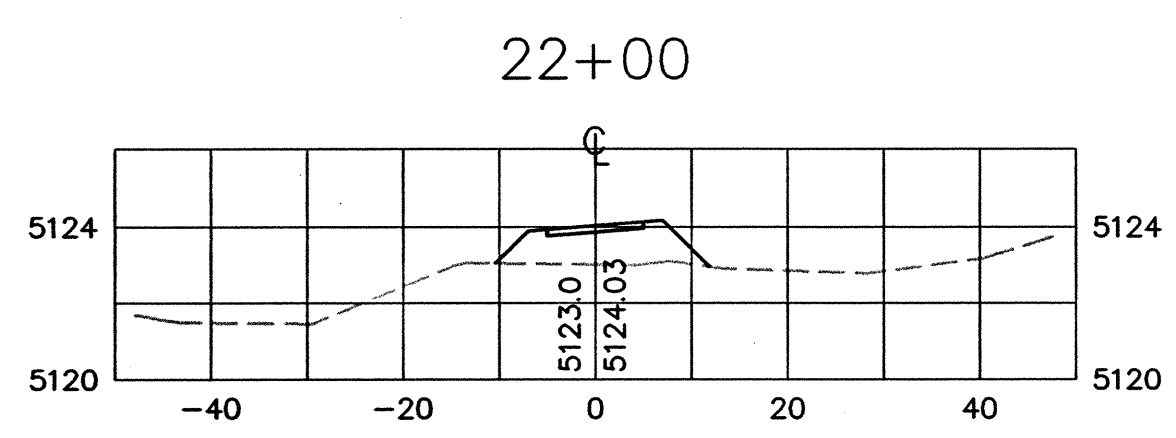
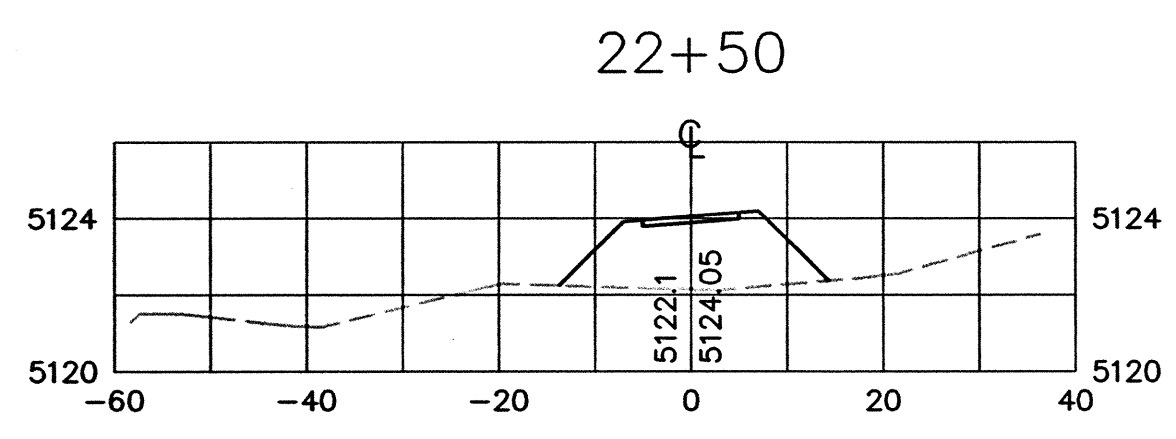
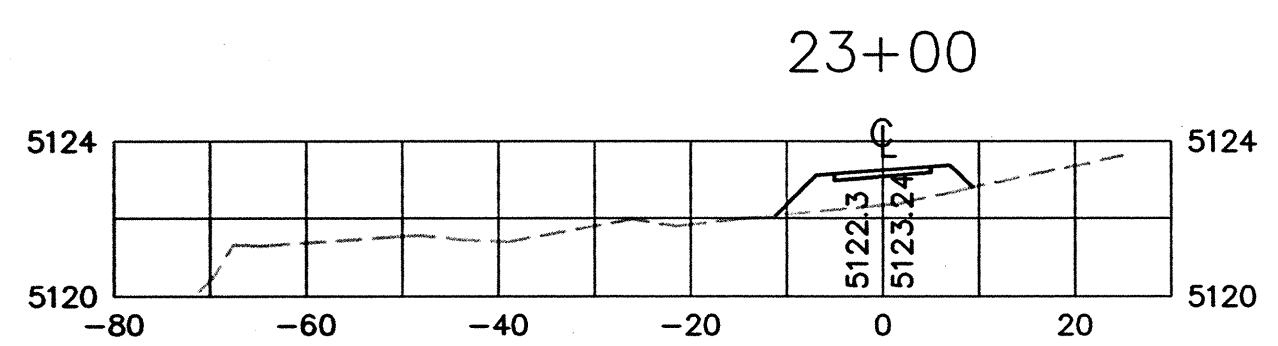
1. Compact subgrade to 95% min. relative density (12" min. depth) per ASTM D1557. If clay or loose sand is encountered, contact the Engineer before proceeding.
2. Compact backfill to 90% min. relative density per ASTM D1557.
3. Maintain 2" minimum clearance between all reinforcing bars and outside surface of formed concrete, 3" between bars and outside surface of concrete poured against earth.
4. All block and pilaster cells are to be grouted solid with concrete block fill.
5. Concrete for footings and filling of cells shall meet or exceed 3,000 p.s.i. at 28 days, with 3/4" maximum size aggregate, and a maximum slump of 5".
6. Masonry mortar shall meet or exceed the requirements of ASTM C 270, Type M.
7. Wall blocks are to be standard masonry units (8"x8"x16" or as otherwise indicated), and pilaster blocks are to be sized appropriately for the intended application.
Color - Desert Tan or as directed by owner.
8. Install 9 ga., galv. Dur-0-Wal (or approved equal) every other course (16" OC), or bond beam with 2-#4 rebar every third course (24" OC, max.).
9. Reinforcing steel splices shall have 15" min. laps.
10. Construct pilasters at 16' on centers (maximum), and as appropriate for corners, junctions, angle points and ends.
11. Drainage for retained earth shall be provided with clean gravel backfill and un-mortared head joints.
12. The top course of block shall use 2" solid masonry units as caps, unless a 6" party wall is to be installed on top of a retaining wall.
13. The top of pilasters shall have 2" solid masonry units of appropriate sizes.

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RUNDOWN STA. 46+00
DRAINAGE DETAILS

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	Mo./DAY/YR.	Mo./DAY/YR.
						
CITY PROJECT No.		ZONE MAP NO.		SHEET	OF	
631491		A-13			12	17

ENC. 30000.DWG. PART 1: Project 5110 (Map Plans)



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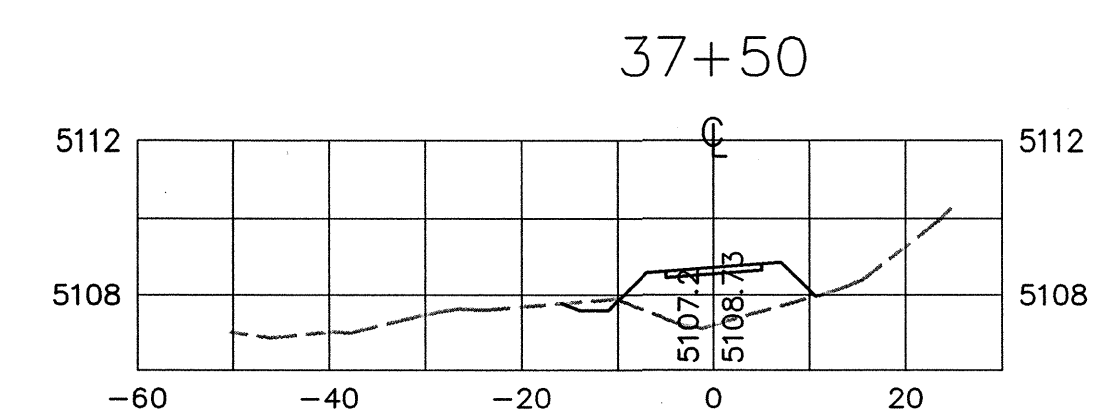
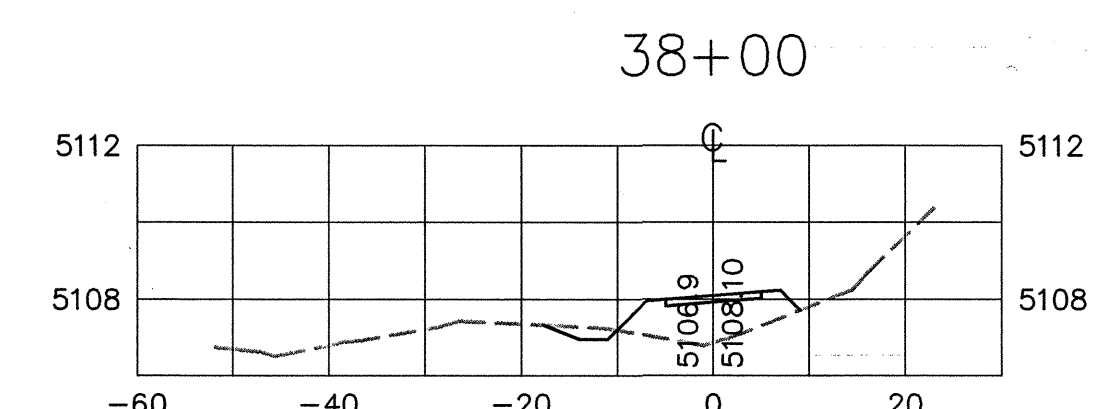
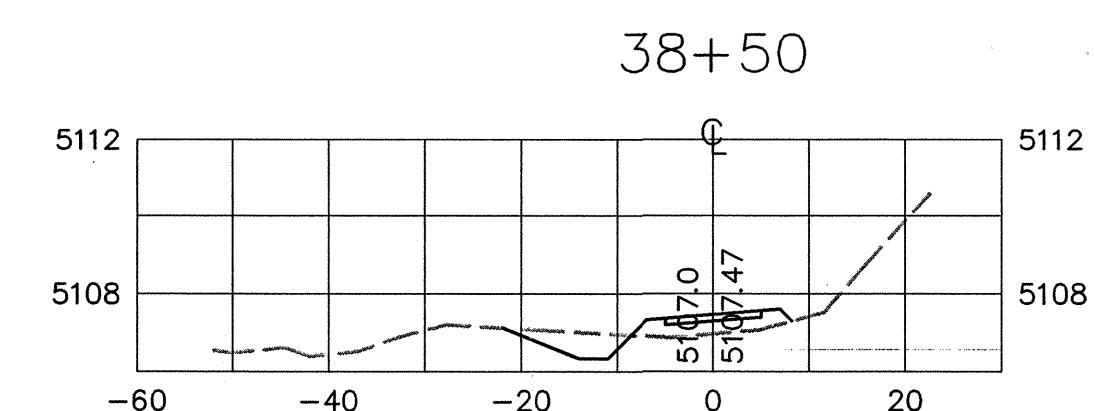
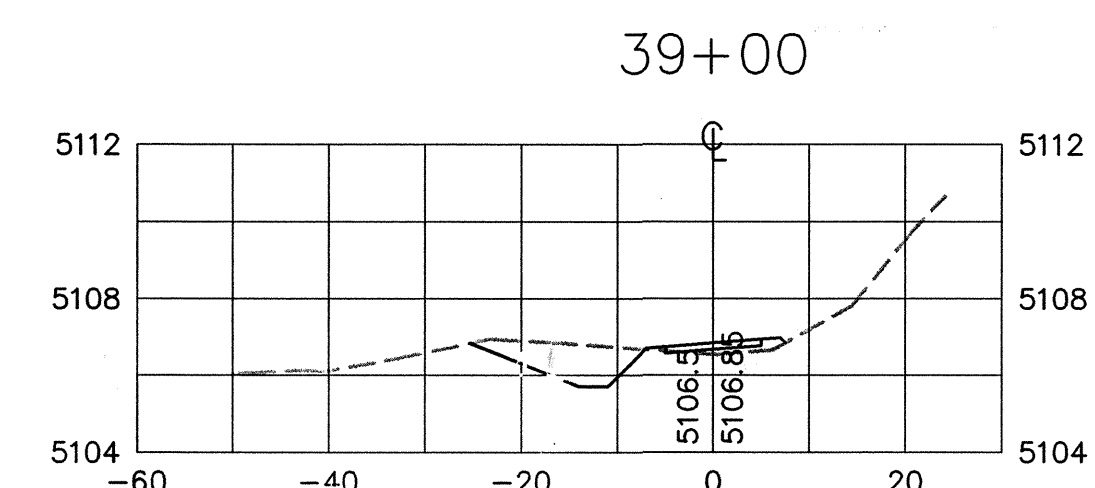
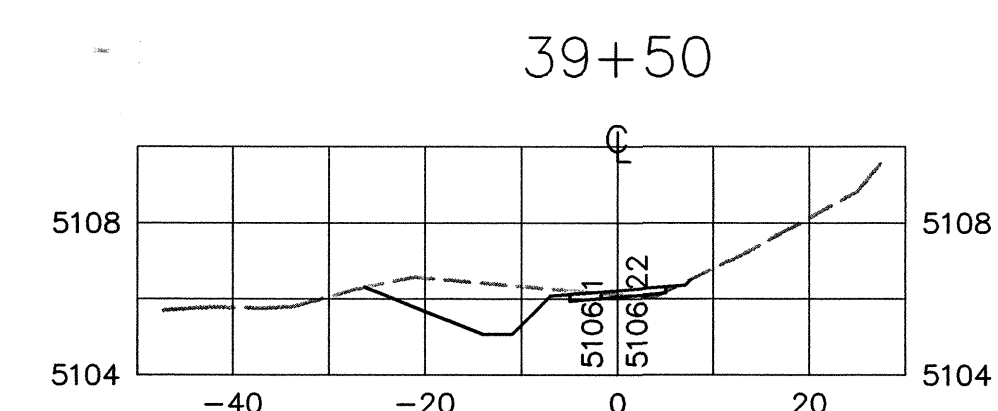
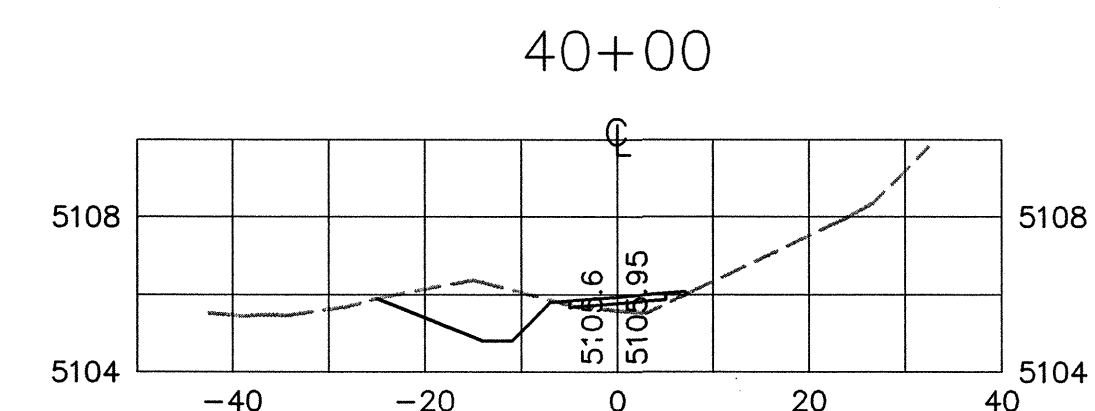
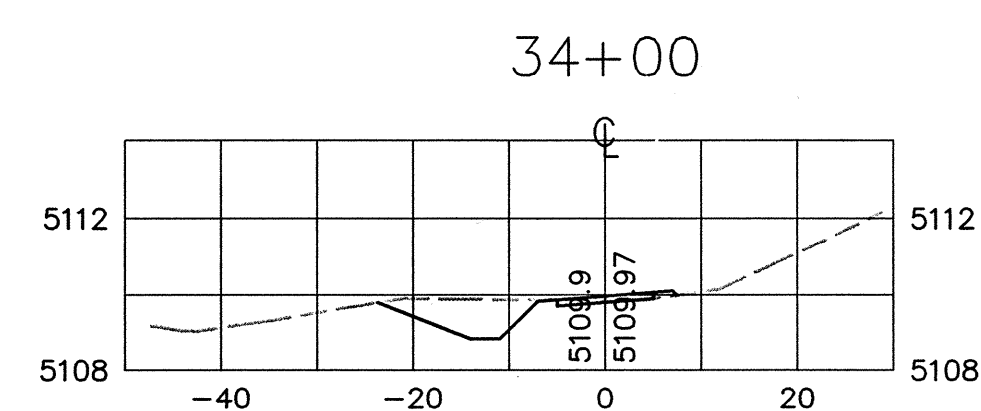
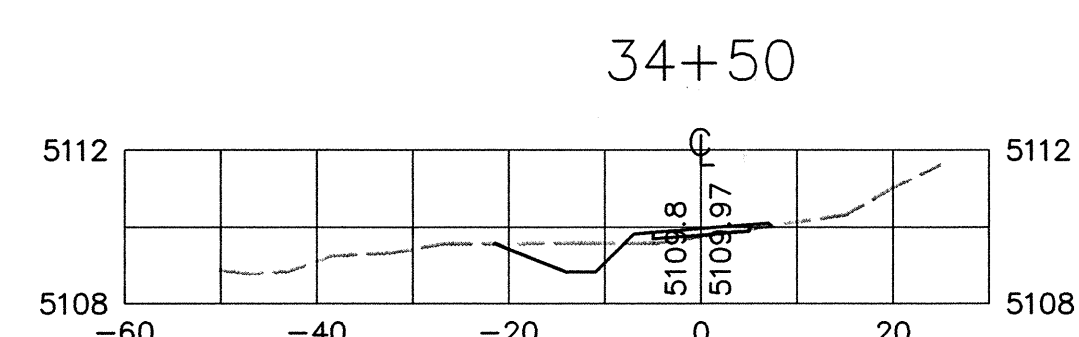
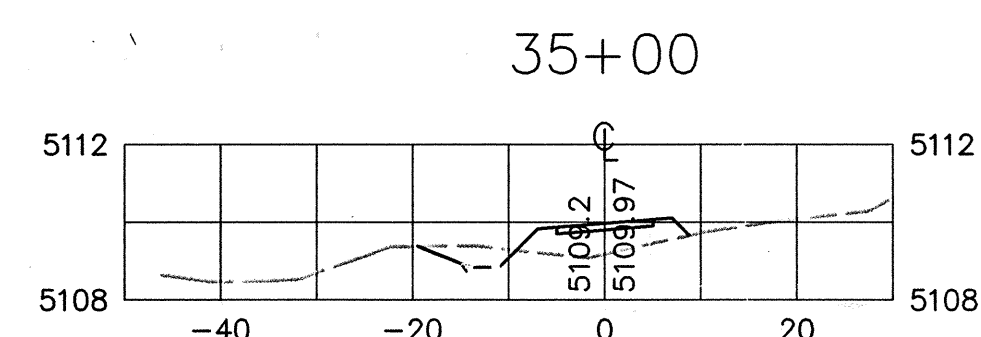
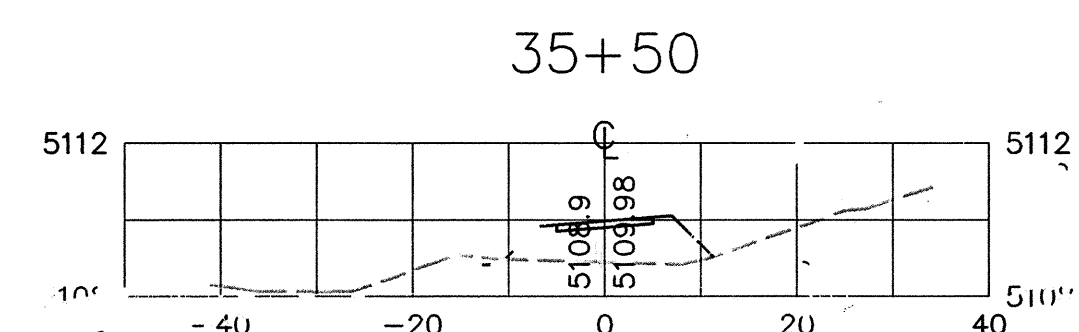
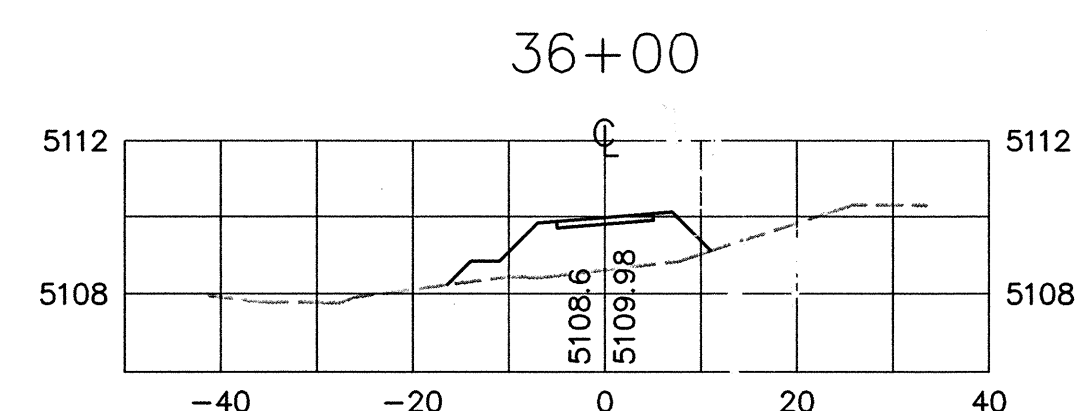
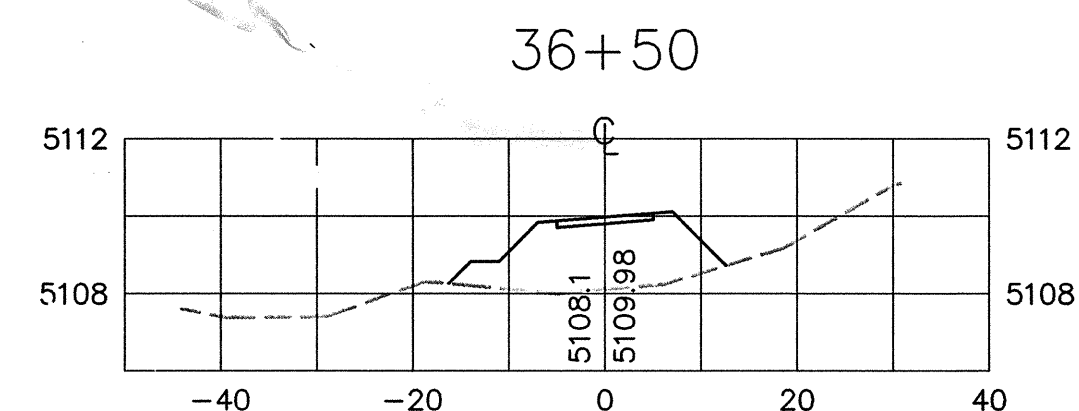
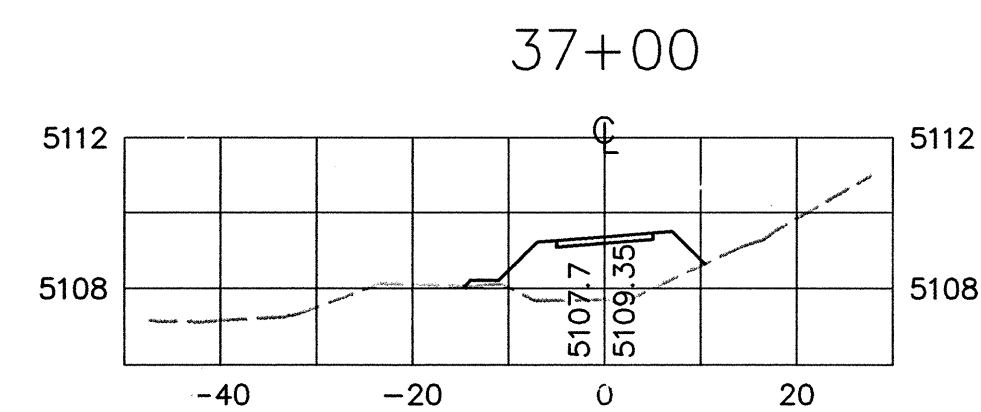
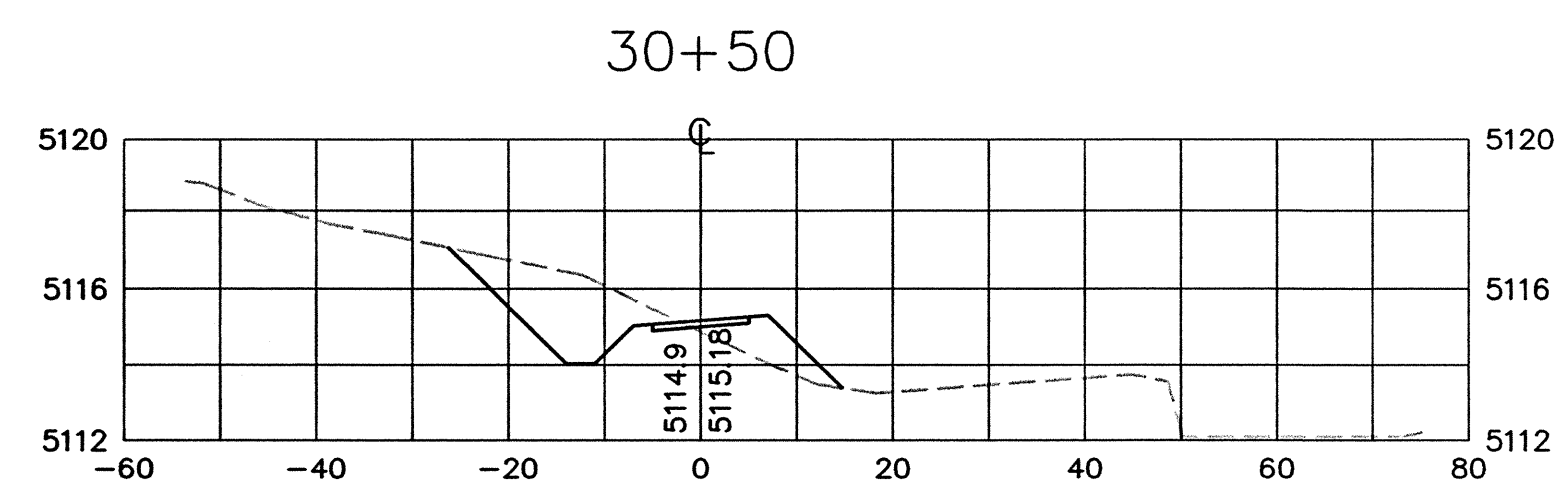
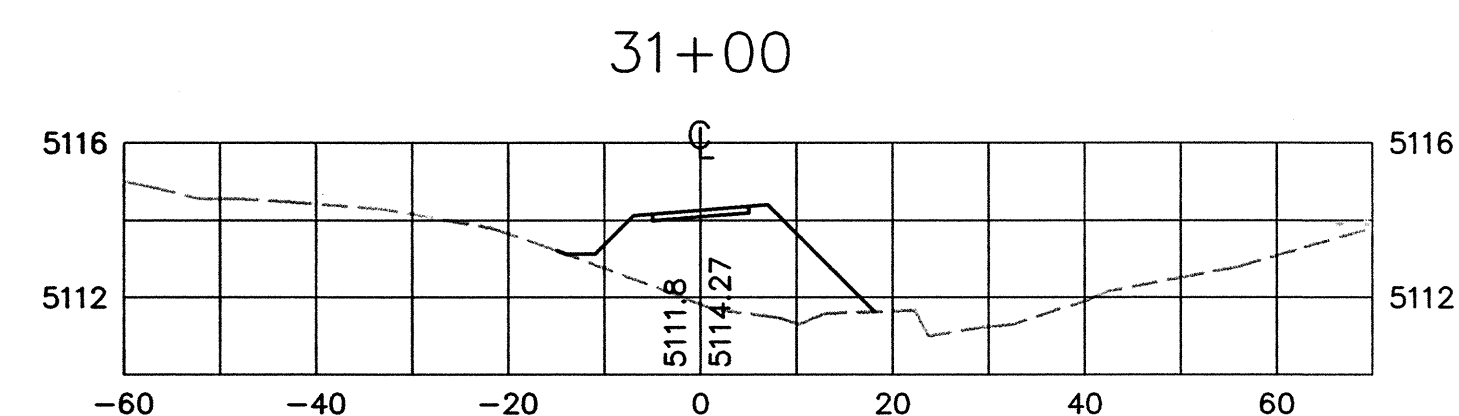
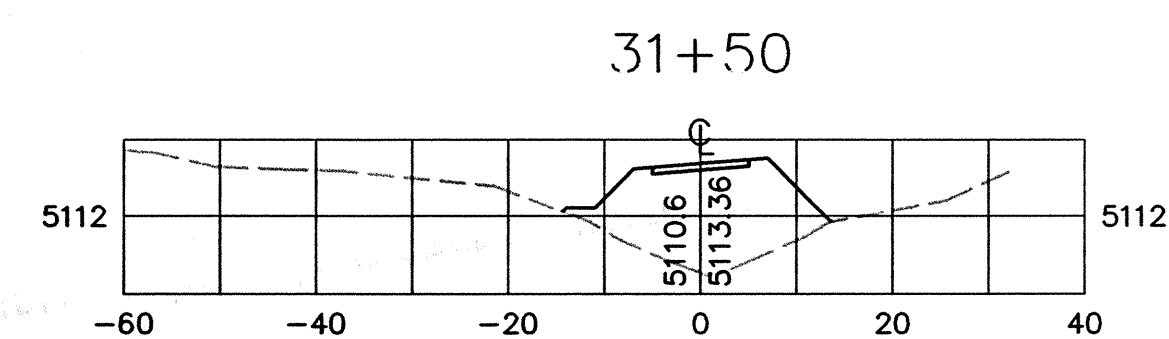
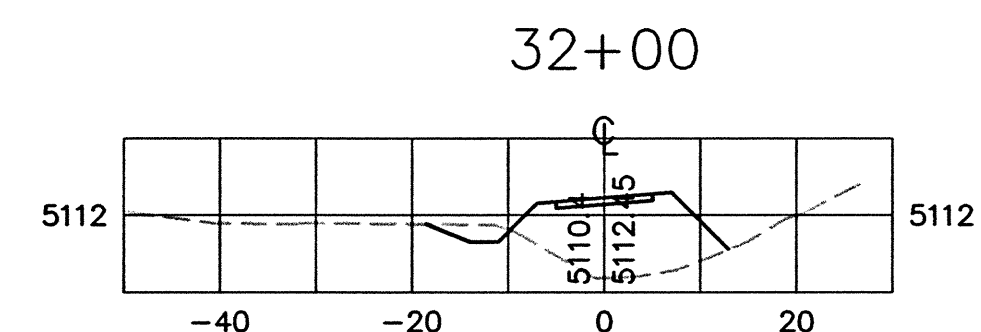
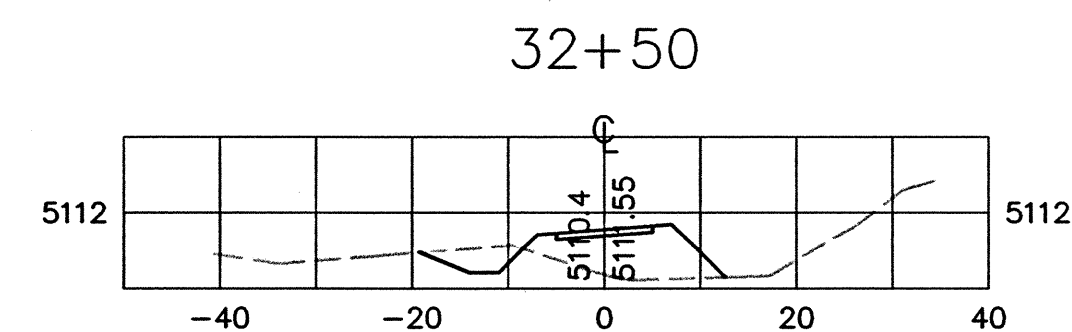
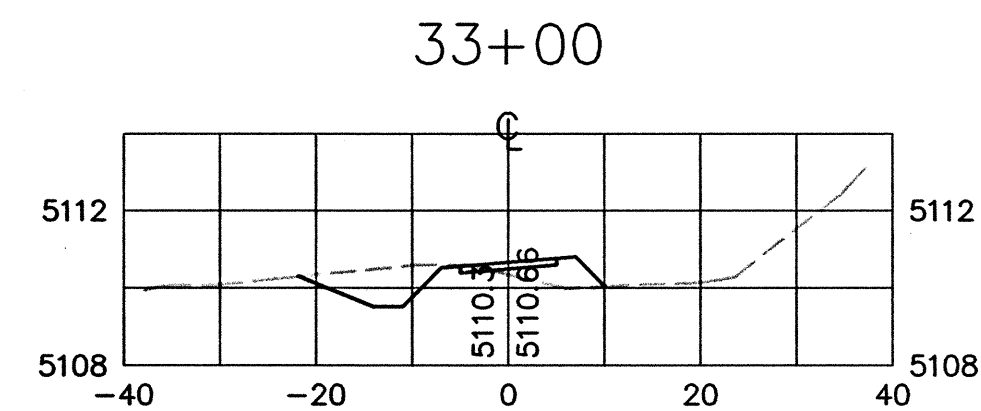
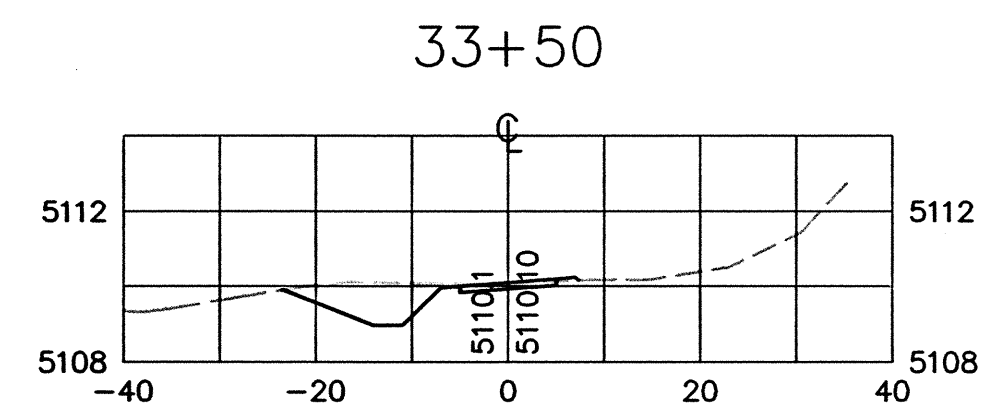
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

BLACK ARROYO TRAIL
CROSS SECTIONS

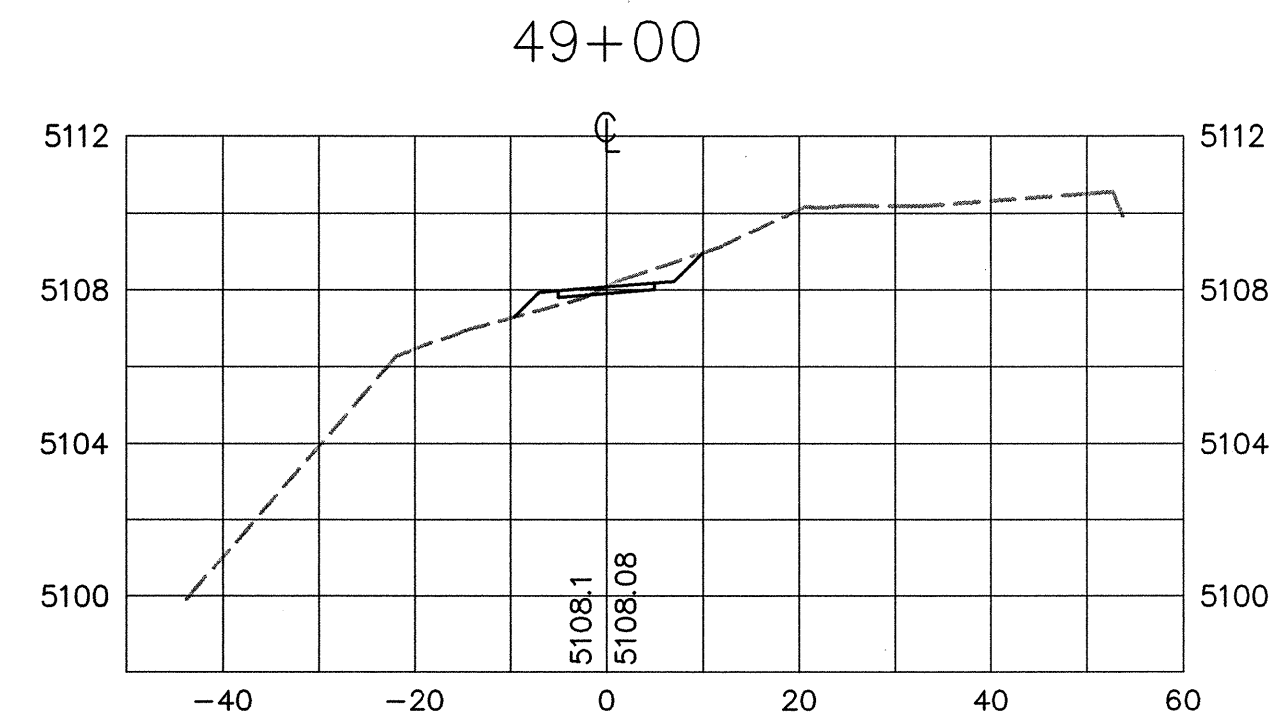
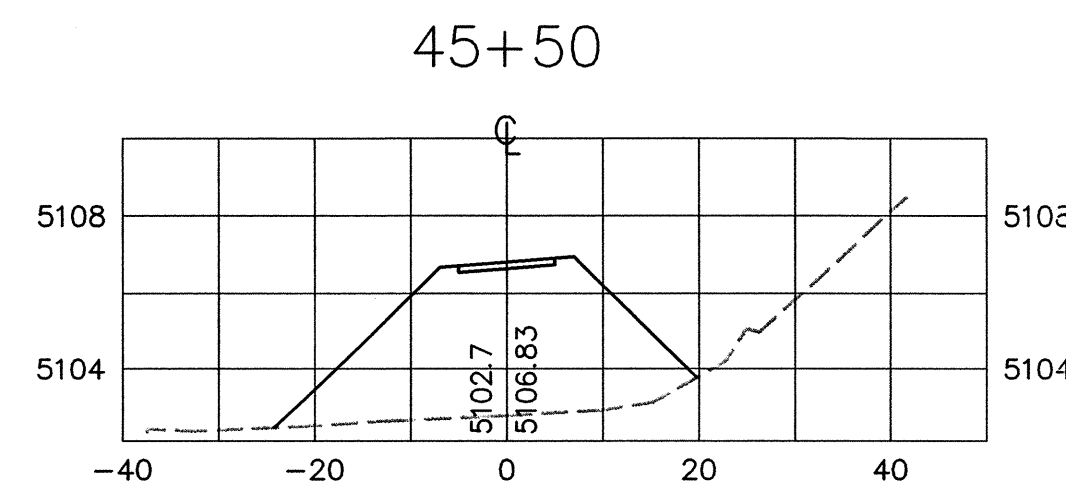
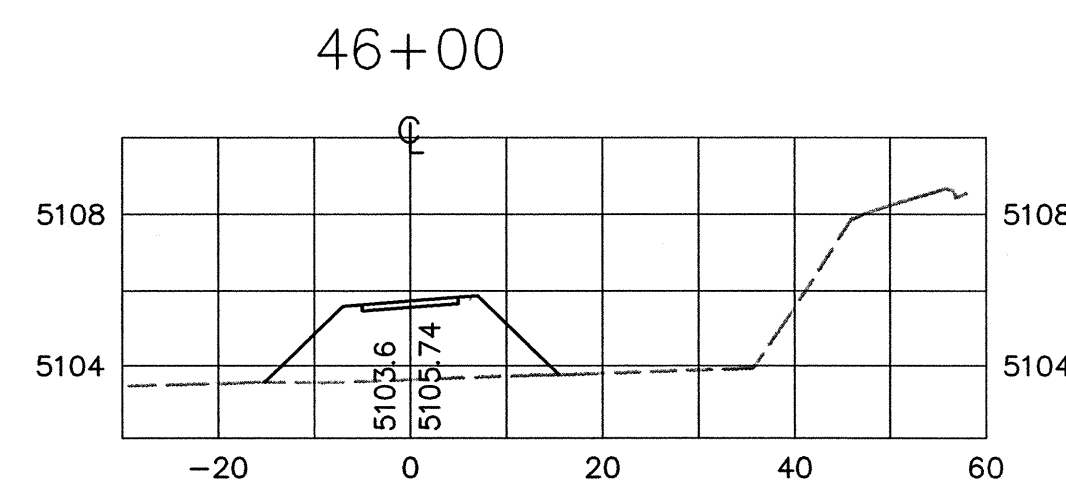
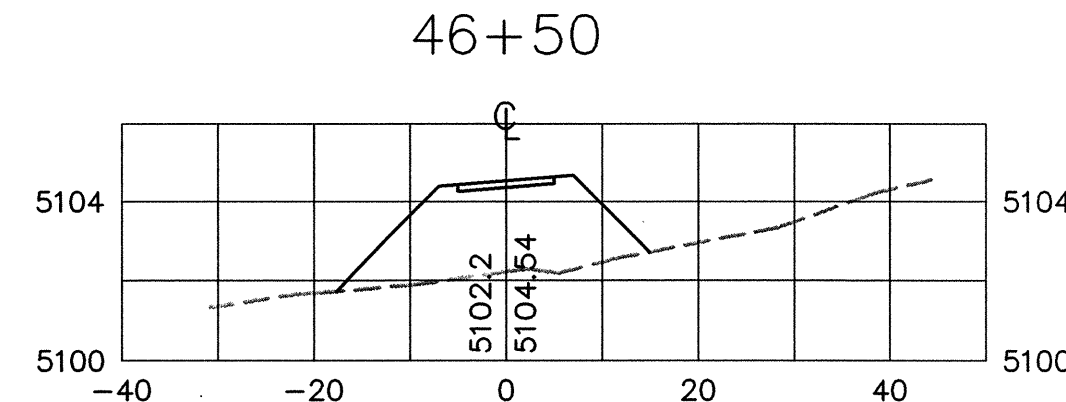
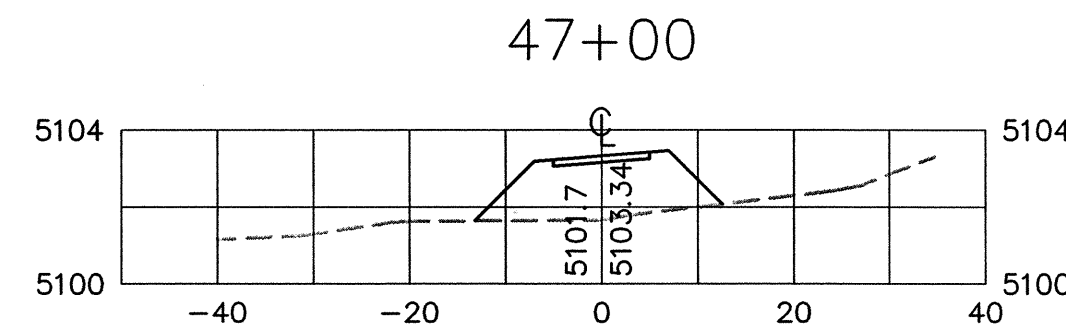
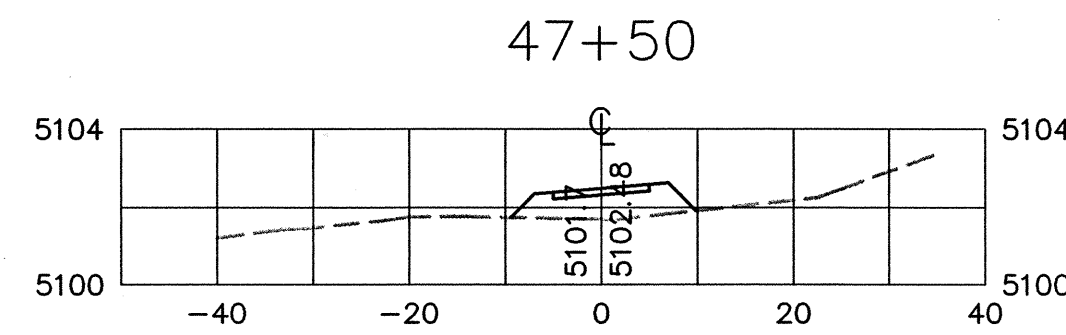
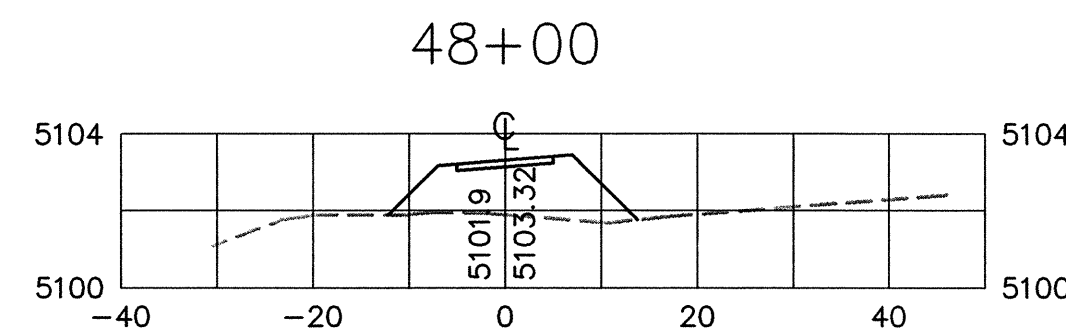
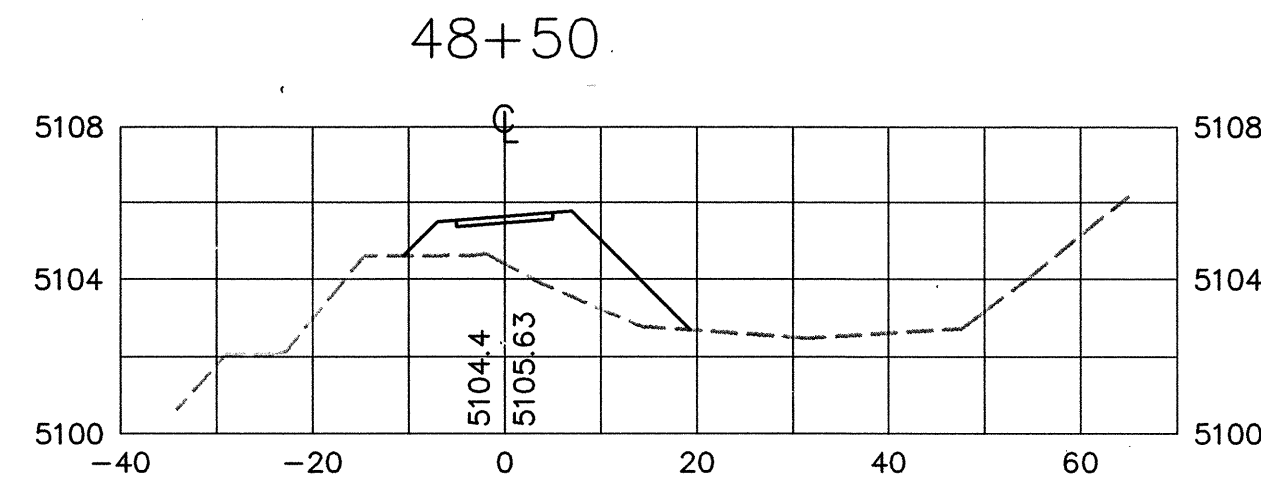
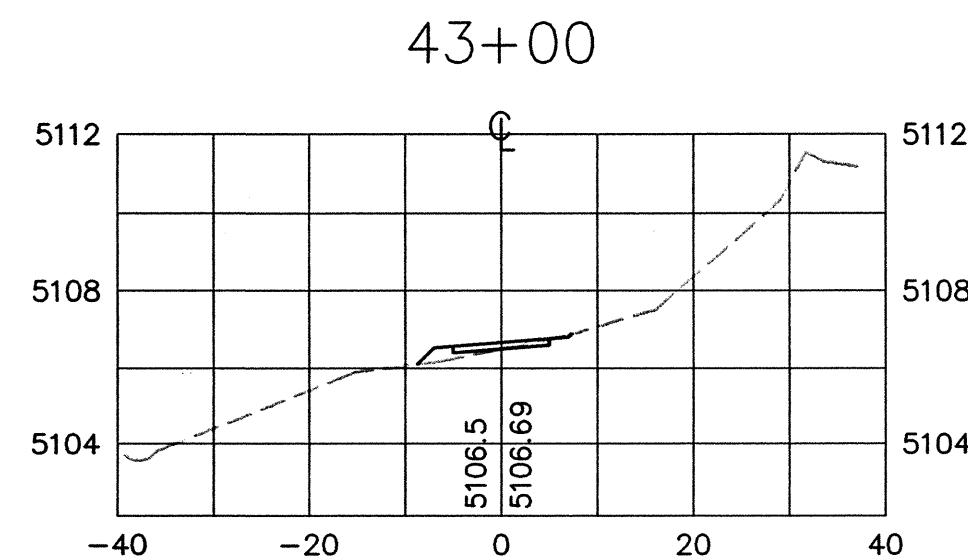
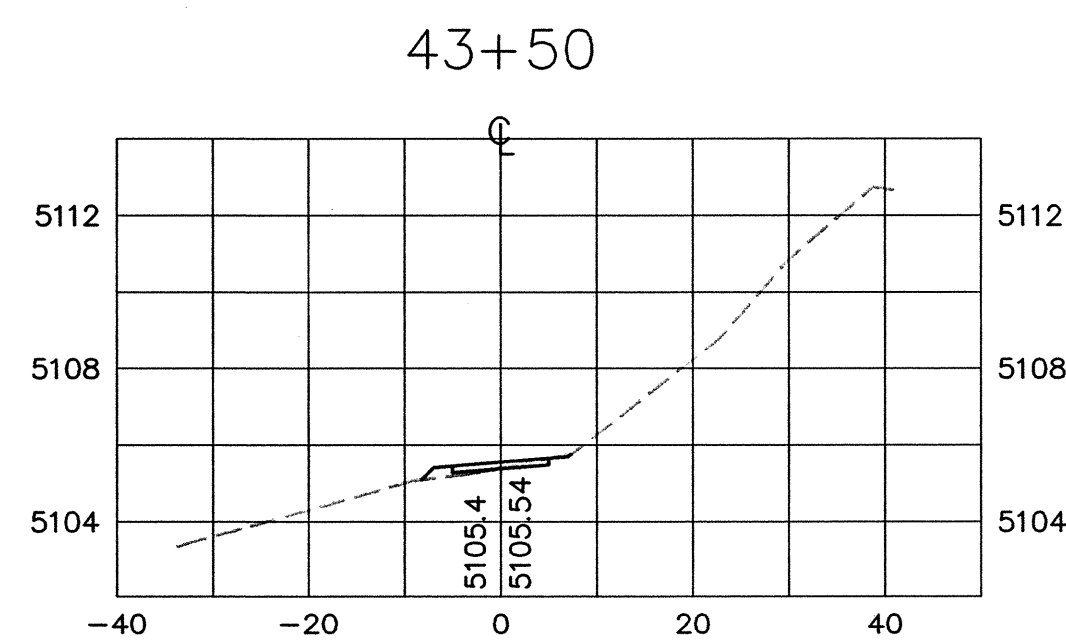
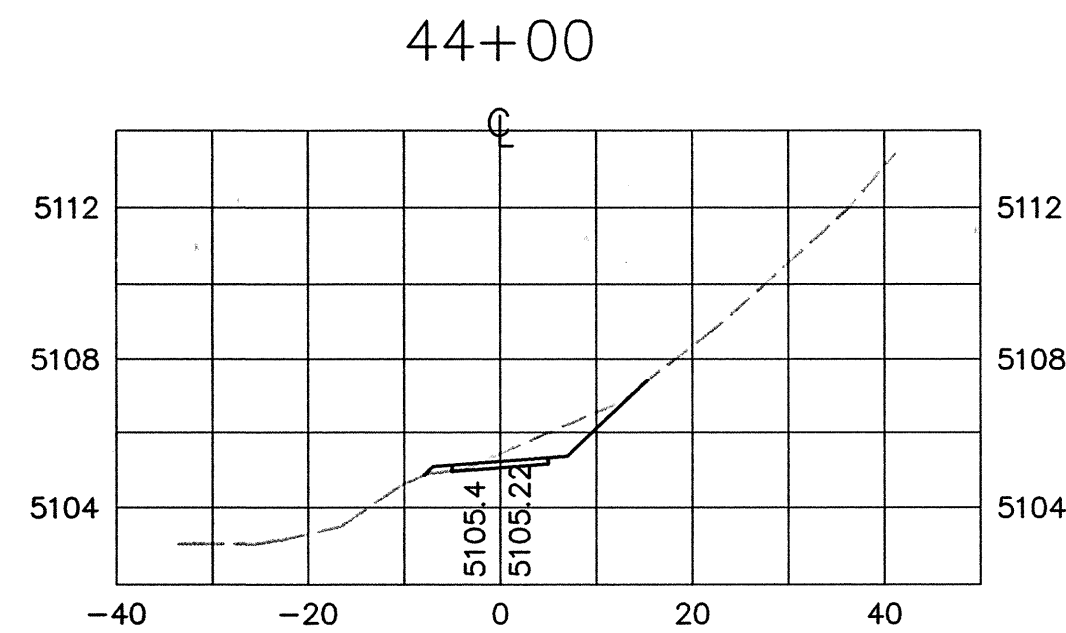
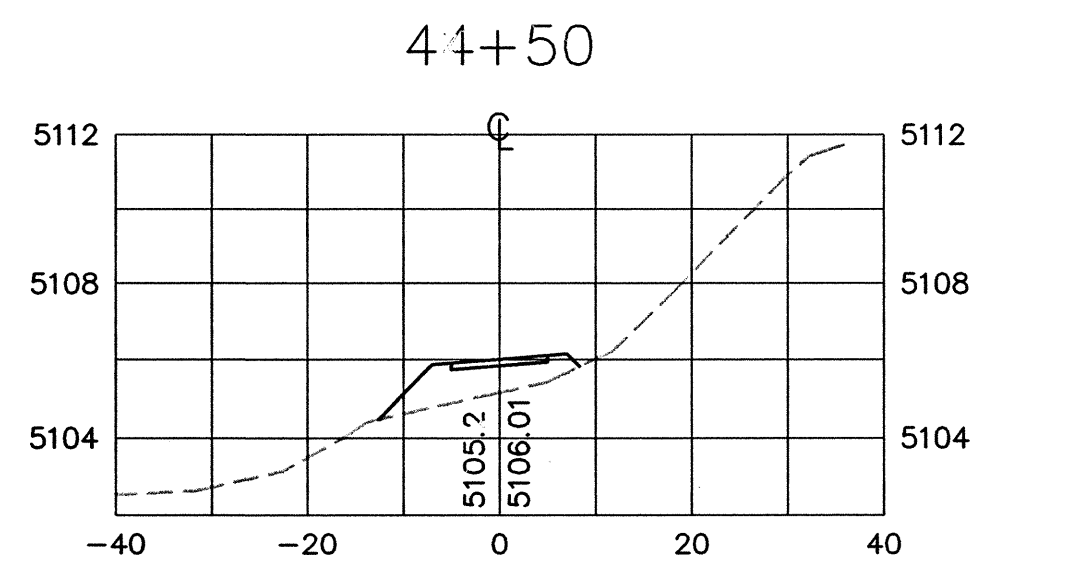
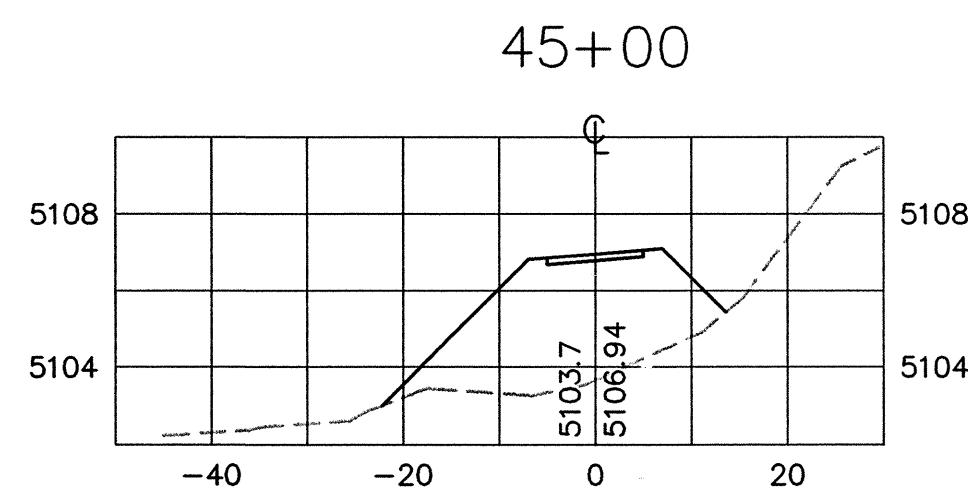
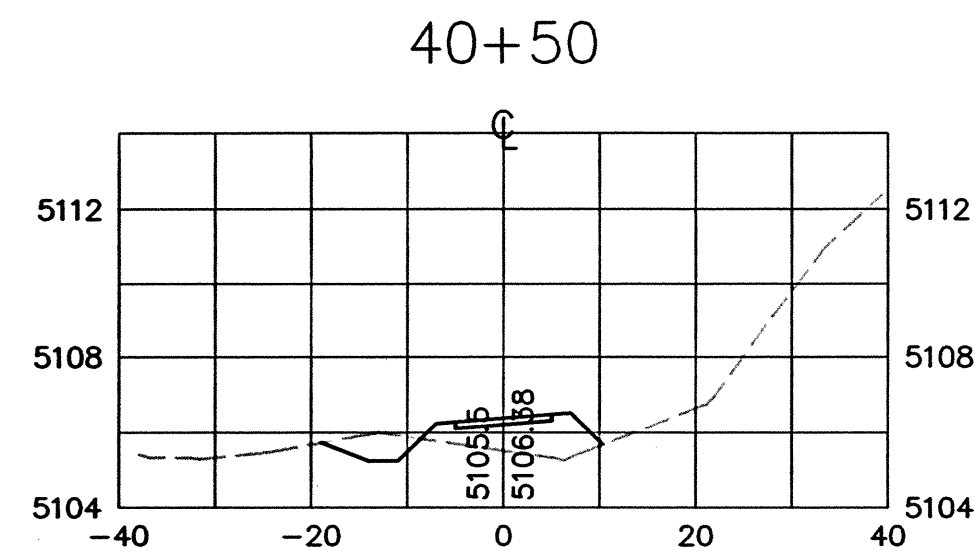
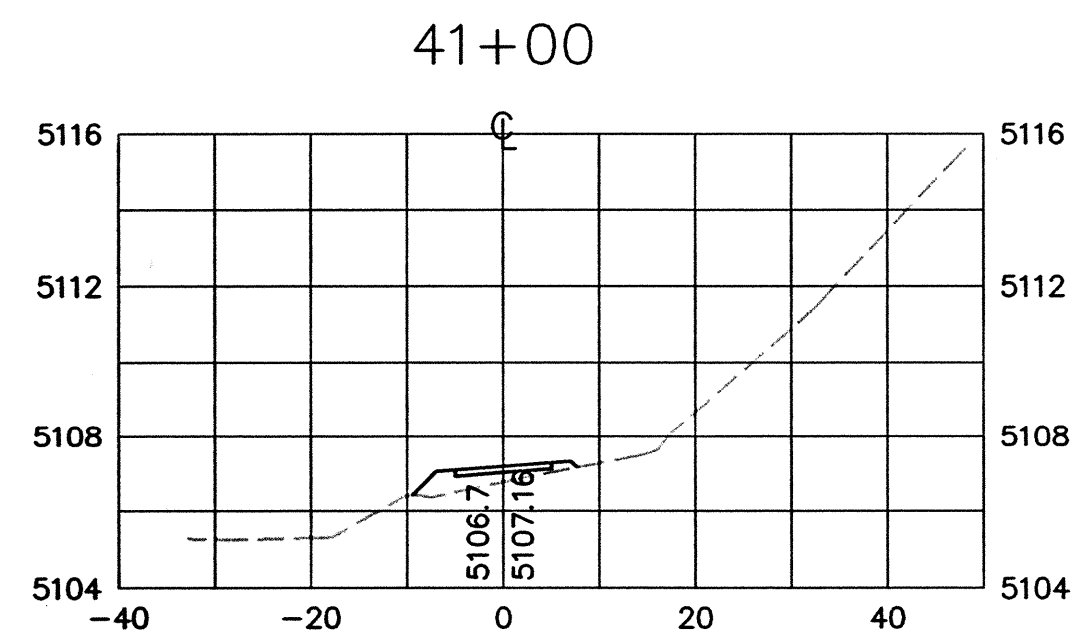
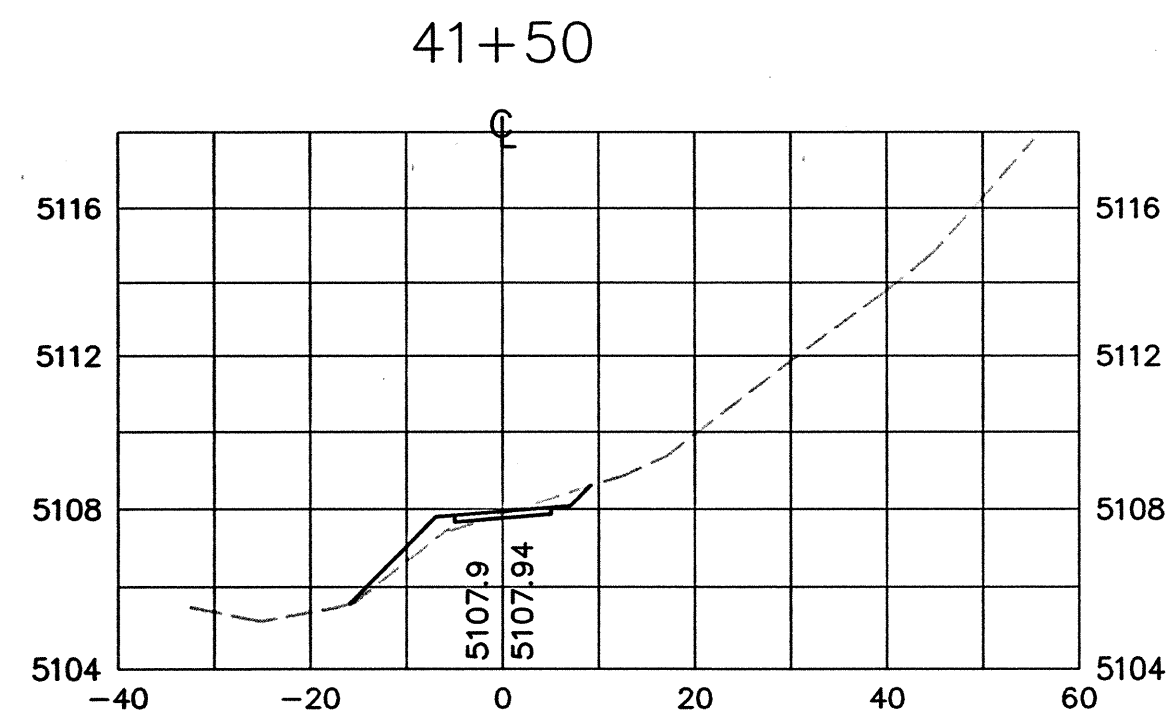
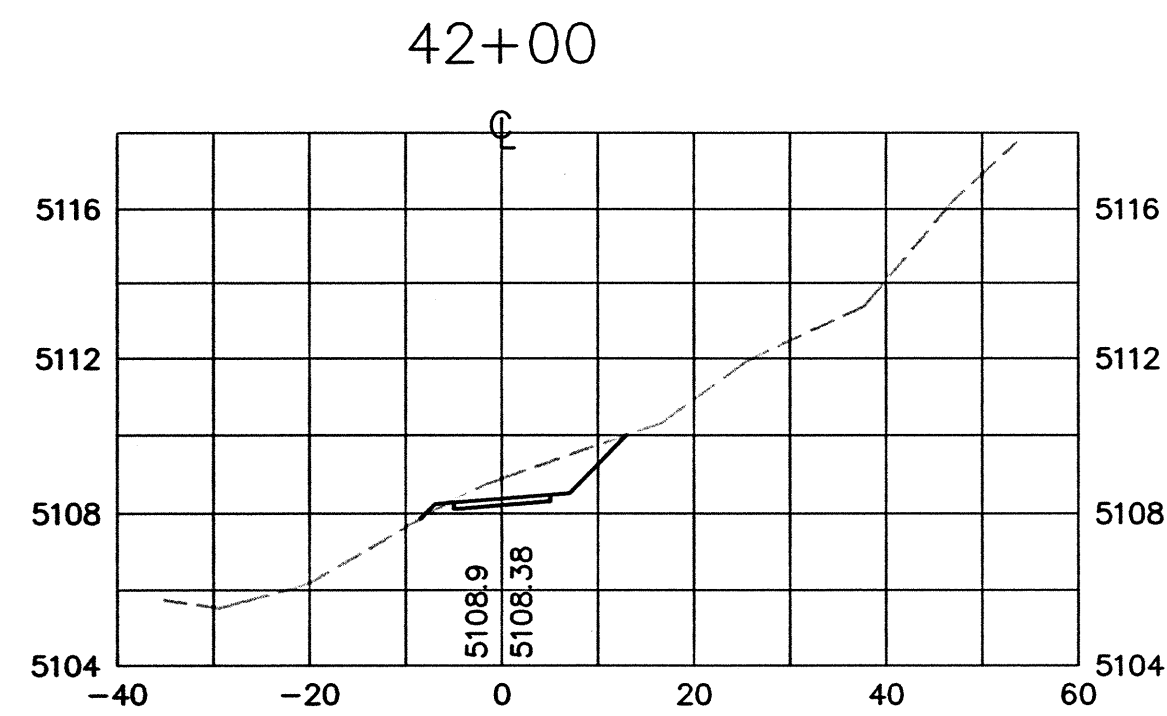
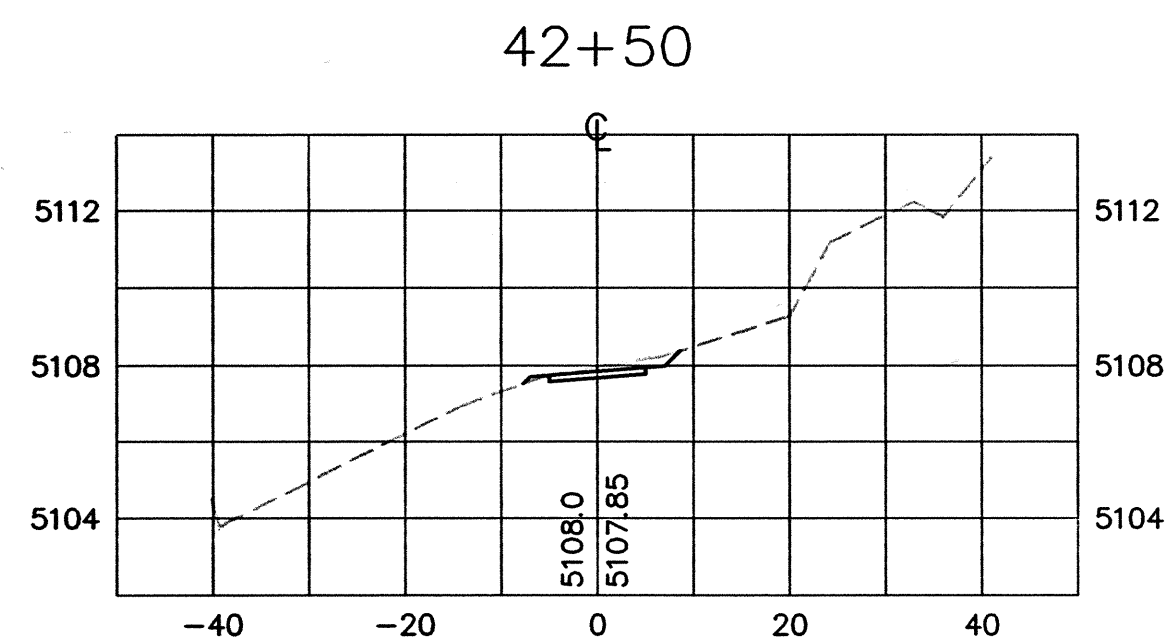
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVE FEB 17 2000 DESIGN REVIEW COMMITTEE	APPROVE FEB 17 2000 CITY ENGINEER		
CITY PROJECT No. 631491		ZONE MAP NO. A-13	SHEET 13 OF 17

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
VERIFICATION BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWINGS	DATE	NO.	DATE	NO.	DATE	NO.	DATE
BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

2-2-00



<i>Easterling & Associates, Inc.</i>															
CONSULTING ENGINEERS															
2600 The American Rd., SE, Suite 100															
Rio Rancho, New Mexico 87124															
(505) 898-6021 FAX (505) 898-8501															
										NO. DATE		DESIGNED BY		DRAWN BY	
														CHECKED BY	
CITY OF ALBUQUERQUE															
PUBLIC WORKS DEPARTMENT															
ENGINEERING DEVELOPMENT GROUP															
BLACK ARROYO TRAIL															
CROSS SECTIONS															
DESIGN REVIEW COMMITTEE				CITY ENGINEER APPROVAL				Mo./DAY/YR.				Mo./DAY/YR.			
APPROVED				APPROVED				LAST DESIGN UPDATE							
FEB 17 2000				FEB 17 2000											
DESIGN REVIEW COMMITTEE				CITY ENGINEER											
CITY PROJECT NO.				ZONE MAP NO.				SHEET				OF			
631491				A-13				14				17			



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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

**BLACK ARROYO TRAIL
CROSS SECTIONS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVE FEB 17 2000 DESIGN REVIEW COMMITTEE	APPROVE FEB 17 2000 CITY ENGINEER		

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
631491	A-13	15	17

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
[Signature]		FIELD NOTES		CONTRACTOR		CONTRACTOR	
[Stamp]		NO. BY DATE		WORKED BY		WORKED BY	
[Stamp]		NO. BY DATE		INSPECTED BY		INSPECTED BY	
[Stamp]		NO. BY DATE		ACCEPTANCE BY		ACCEPTANCE BY	
[Stamp]		NO. BY DATE		VERIFICATION BY		VERIFICATION BY	
[Stamp]		NO. BY DATE		DRAWINGS BY		DRAWINGS BY	
[Stamp]		NO. BY DATE		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
[Stamp]		NO. BY DATE		RECORDED BY		RECORDED BY	
[Stamp]		NO. BY DATE		NO.		NO.	

