

RICHLAND HILLS SUBDIVISION - UNIT 2

CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

IMPROVEMENTS FOR GRADING, PAVING AND UTILITIES

INDEX TO DRAWINGS

WARNING - EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN 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 THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

N.M.U., INC. GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT NMUI AT 898-2661 AT LEAST THREE DAYS PRIOR TO ANY UTILITY CONSTRUCTION (INCLUDING CONNECTIONS TO THE EXISTING SYSTEM) TO COORDINATE THE VARIOUS ITEMS OF WORK WITH NMUI OPERATIONS STAFF.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987.
3. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE SATED OR PROVIDED FROM HERON, BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. (NMUI) STANDARD SPECIFICATIONS. IF NMUI SPECIFICATIONS ARE IN CONFLICT WITH THE NEW MEXICO SPECIFICATIONS, NMUI SPECIFICATIONS SHALL TAKE PRIORITY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
5. 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.
6. THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
7. CONTRACTOR SHALL NOTIFY THE 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 NOTIFY THE ENGINEER AND 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 THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS, CITY OF ALBUQUERQUE SPECIFICATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A "BARRICADING PERMIT" PRIOR TO COMMENCEMENT OF WATER OR SEWER CONSTRUCTION. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

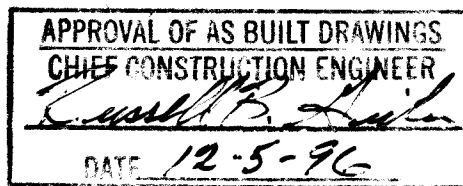
SHEET NO.

DESCRIPTION

1	COVER SHEET AND INDEX TO DRAWINGS
2 3	PLAN OF GEOMETRY
4 7	GRADING AND EROSION CONTROL PLANS
	<u>PAVING PLAN AND PROFILES</u>
8	COMPOSITE PAVING PLAN
9	RICHLAND HILLS ROAD N.W. / SILVERCREST COURT N.W.
10	SPRINGHILL DRIVE N.W./ ROSECLIFF AVENUE N.W.
11	RIDGEMONT AVENUE N.W./ TIMBERIDGE PLACE N.W.
12	CLARIDGE PLACE N.W.
13	GOLF COURSE ROAD N.W.

UTILITY PLAN AND PROFILES

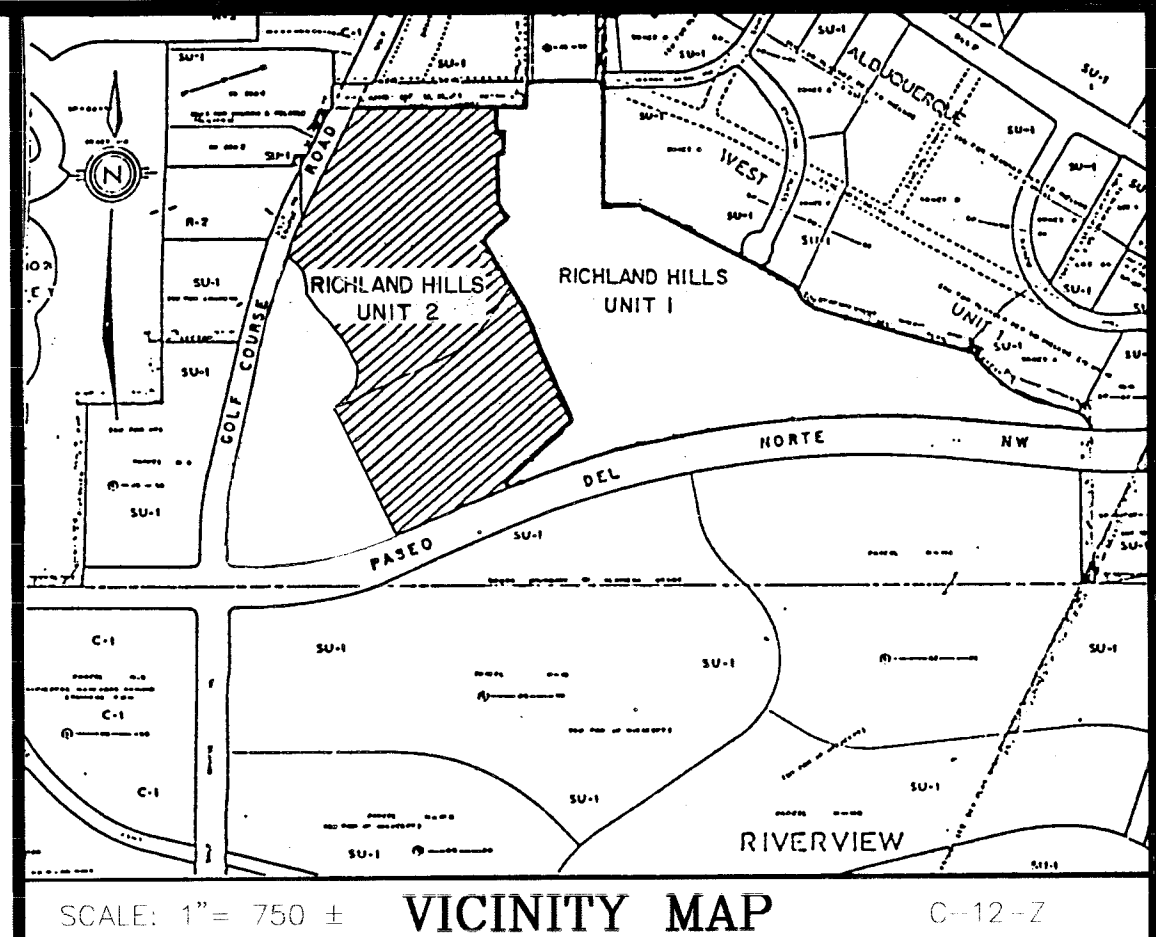
14	COMPOSITE UTILITY PLAN
15	RICHLAND HILLS ROAD N.W. / SILVERCREST COURT N.W.
16	SPRINGHILL DRIVE N.W./ ROSECLIFF AVENUE N.W.
17	RIDGEMONT AVENUE N.W./ TIMBERIDGE PLACE N.W.
18	CLARIDGE PLACE N.W.
19	OFFSITE SANITARY SEWER OUTFALL (FUTURE BRECKENRIDGE DRIVE N.W.)
20	OFFSITE SANITARY SEWER OUTFALL (FUTURE GLENCROFT AVENUE N.W.)
21-22	INTERIM LOW FLOW DRAINAGE CHANNEL



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	48	78	9	9	9	9	9	9	9	9	9	9	9	9

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

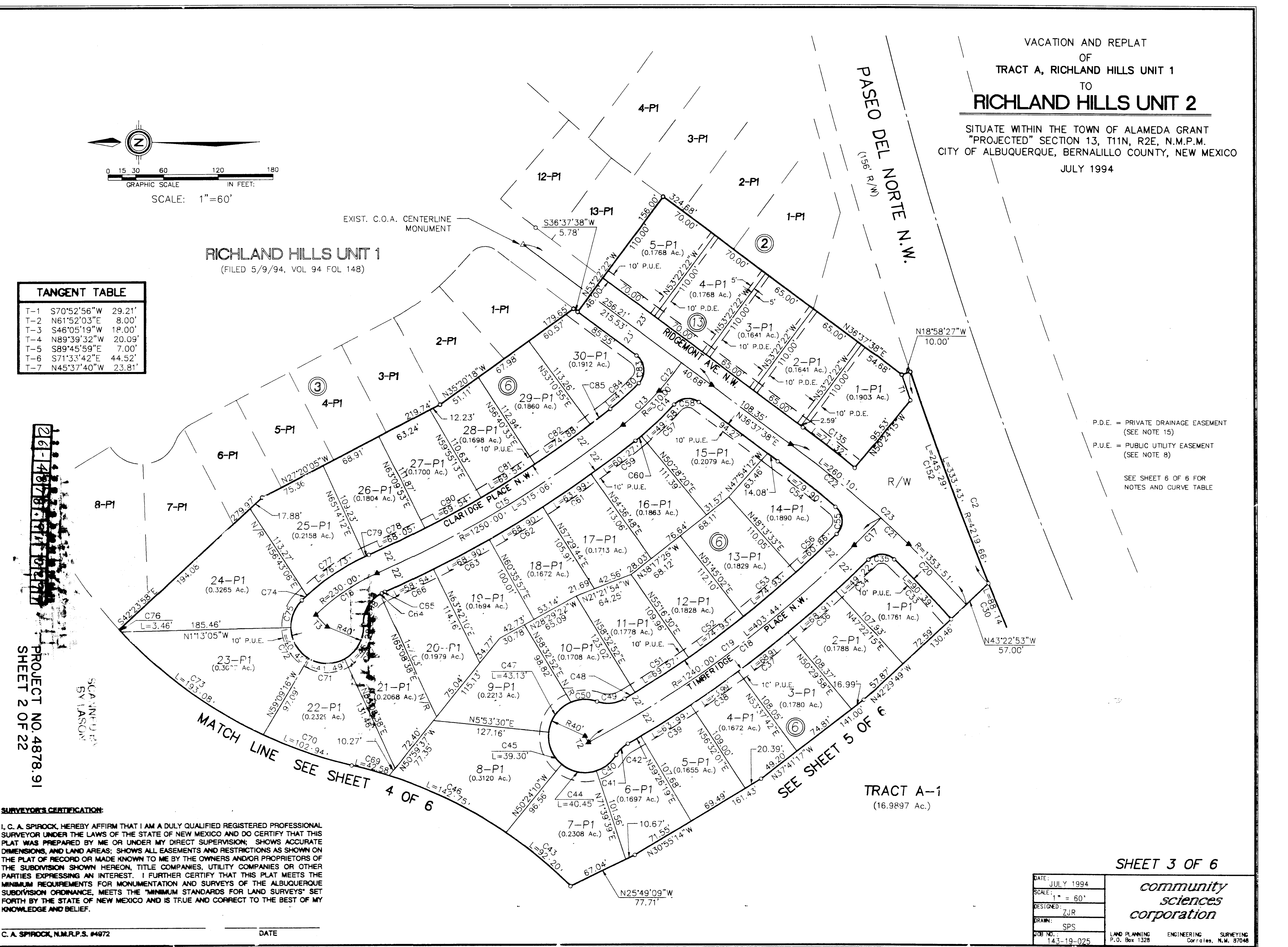
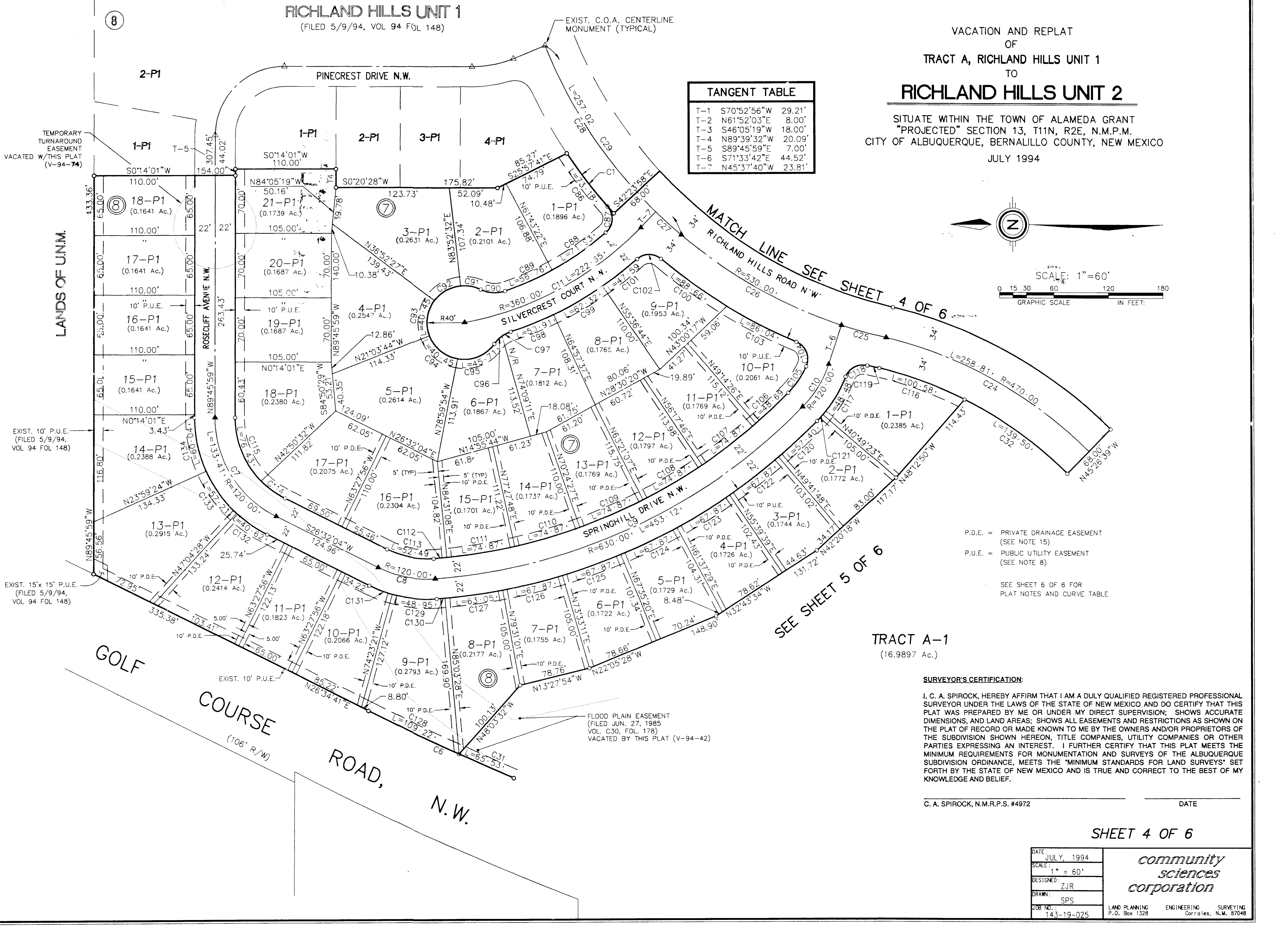
ENGINEER'S SEAL <i>James D. Hild</i> 12-14-96	DATE: JUNE, 1994 SCALE: AS SHOWN DESIGNED: Z.R. DRAWN: C.S.G. CHECKED: J.H.P. DATE: 12-14-96	community sciences corporation APPROVED FOR CONSTRUCTION CITY ENGINEER DATE: 12-14-96
PROJECT NO. 4878.91		SHEET 1 OF 22



GENERAL NOTES:

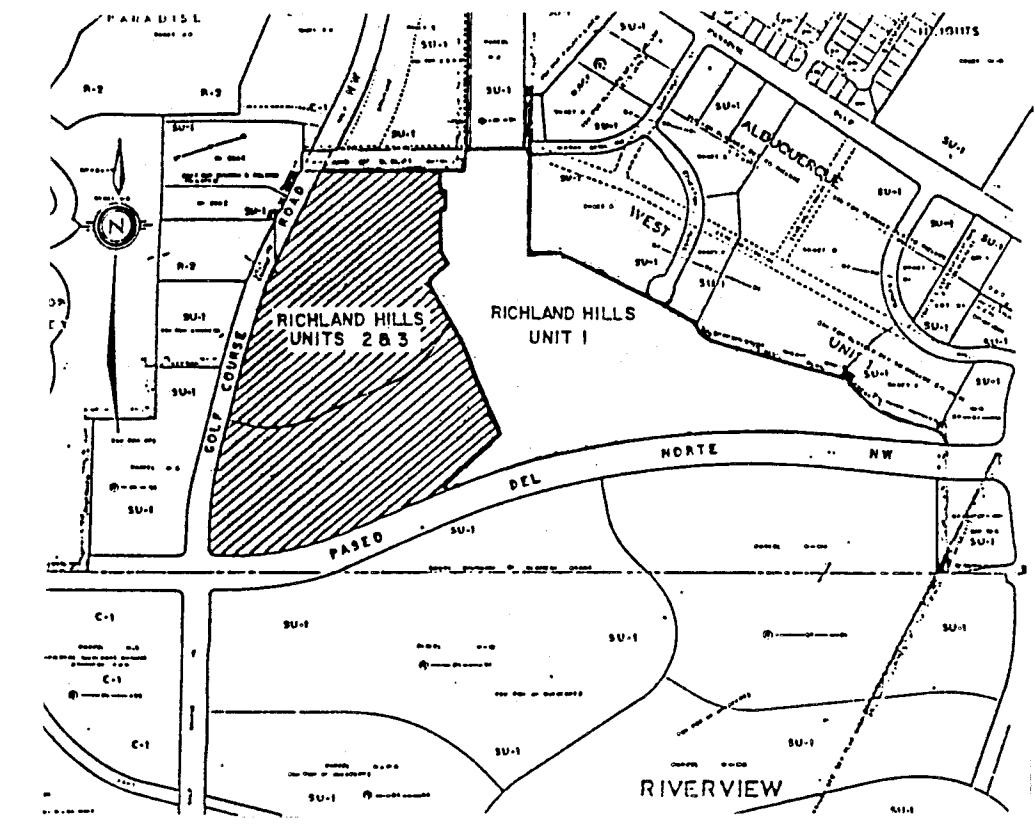
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FROM HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED WITH UPDATE NO. 4.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. 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.
4. 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 SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
5. THREE (3) WORKING DAYS PRIOR TO BEGINNING PAVING OR DRAINAGE 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.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET. ALL NEW STRIPING SHALL BE PLASTIC AS PER CITY STANDARDS.

7. Contractor to coordinate and install subordinates to the City Engineer's Office. Standard Project 12-14-96
James D. Hild
12/1/96





SEE SHEET 2 FOR DETAILS



SCALE: 1"=750'± VICINITY MAP ZONE ATLAS C-12-Z

1. CROSS LOT DRAINAGE WILL NOT BE PERMITTED. IF LOCAL CONDITIONS SHOULD DICTATE A RELAXATION OF THIS RULE, THEN THE APPROPRIATE PUBLIC OR PRIVATE DRAINAGE EASEMENTS WILL BE DEDICATED ON THE PLAT.

- ## EARTHWORK SUMMARY

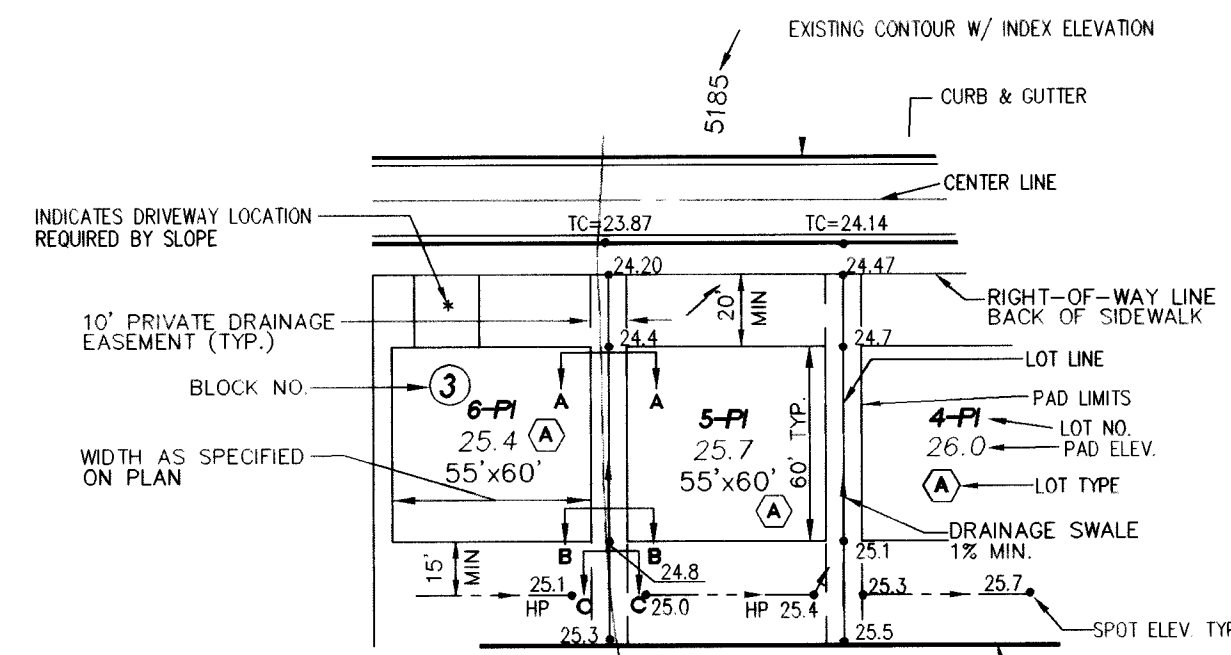
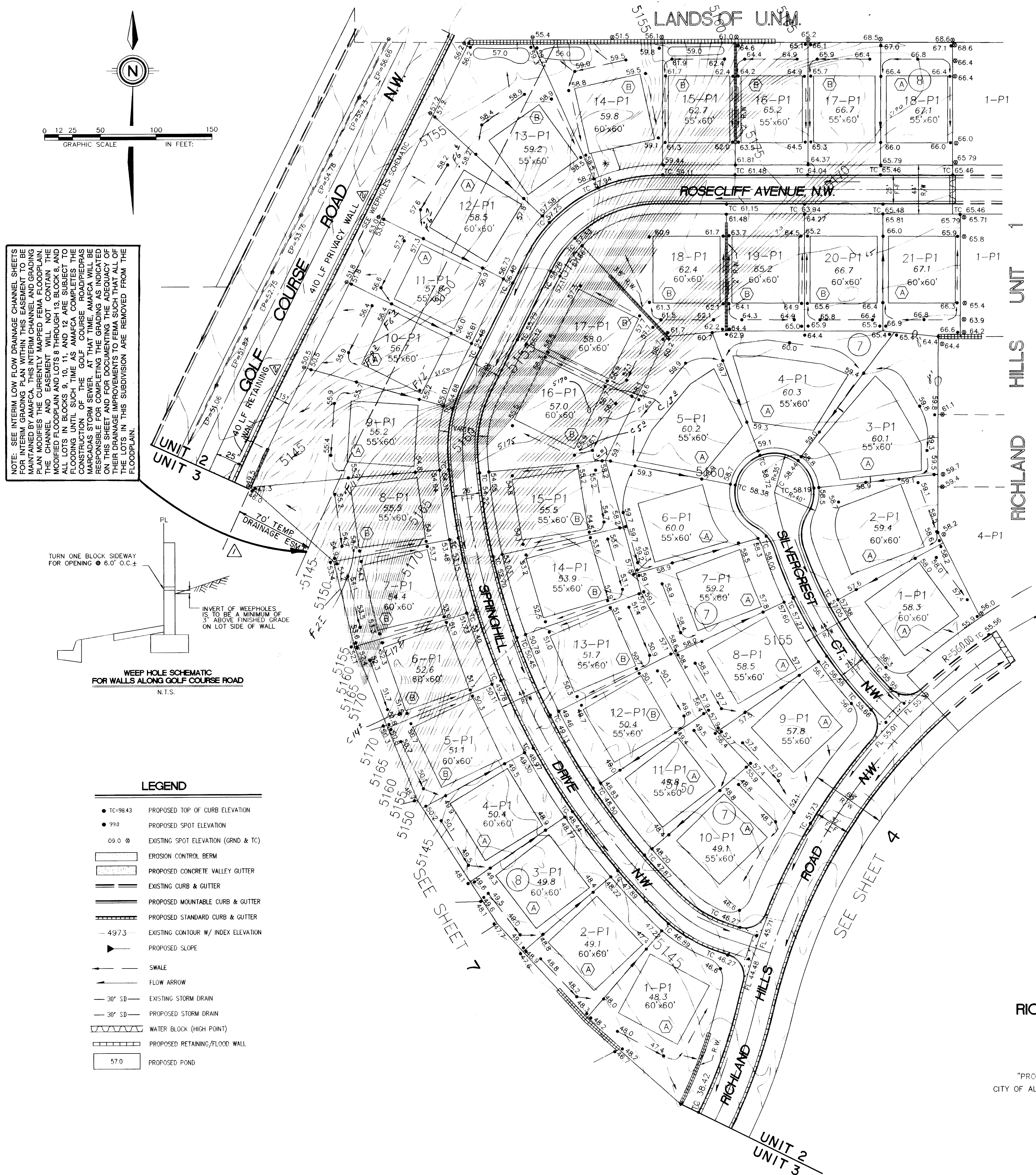
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Fill = 47,462 CY

Shrinkage Factor = 25 %
Excess = 44,488 CY
Total Deficit = 2,974 CY 

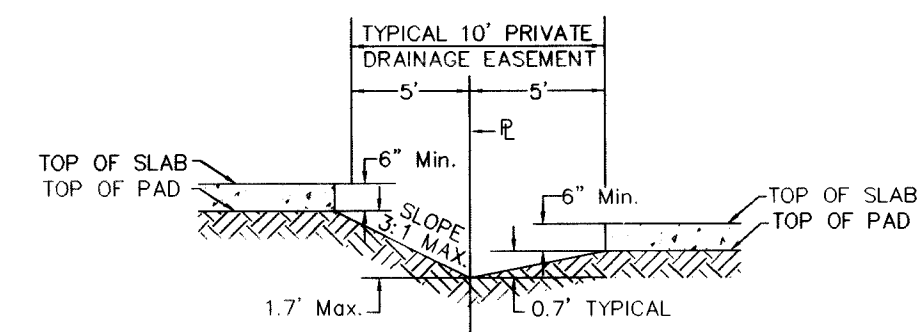
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2	6	-	4	8	7	8	.	9	1		0	4	9	7

DATE:	MAY 1994	<i>community sciences corporation</i>		1/2 B9994	1/2 DATE	1/2 NO.	1/2 DESIGNED BY	1/2 DRAWN BY	1/2 CHECKED BY
SCALE:	1"=50'								
DESIGNED:	JJR, JDH								
DRAWN:	SPS, CDQ								
JOB NO:	143-19-037	LAND PLANNING	ENGINEERING	SURVEYING					
		P.O. Box 1328	Corralles, N.M.	87048					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP									
TITLE: RICHLAND HILLS - UNIT TWO GRADING AND EROSION CONTROL PLAN									
APPROVALS		ENGINEER	DATE	APPROVALS	ENGINEER	DATE			
DRC CHAIRMAN		<i>W. J. G. G. G.</i>	<i>8-8-94</i>	WATER	<i>W. J. G. G.</i>	<i>7-14-94</i>			
TRANSPORTATION		<i>W. J. G. G.</i>	<i>7-26-94</i>	WASTE WATER	<i>W. J. G. G.</i>	<i>7-14-94</i>			
HYDROLOGY		<i>J. C. C.</i>	<i>7-14-94</i>						
PROJECT NO.		4878.91		MAP NO.	C-12		SHEET 4 OF 22		

SCANNED BY
BY LASON

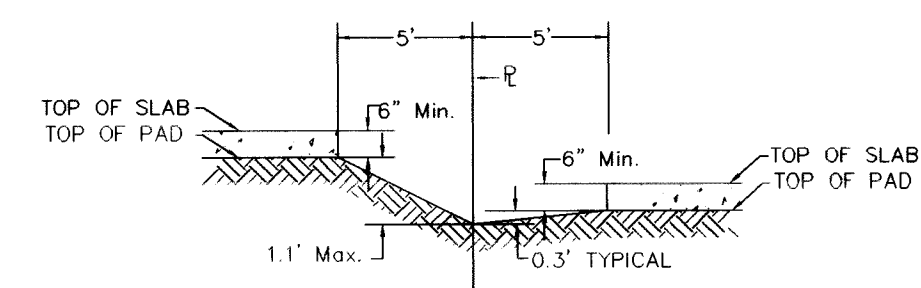


TYPICAL TYPE A LOT GRADING DETAILS

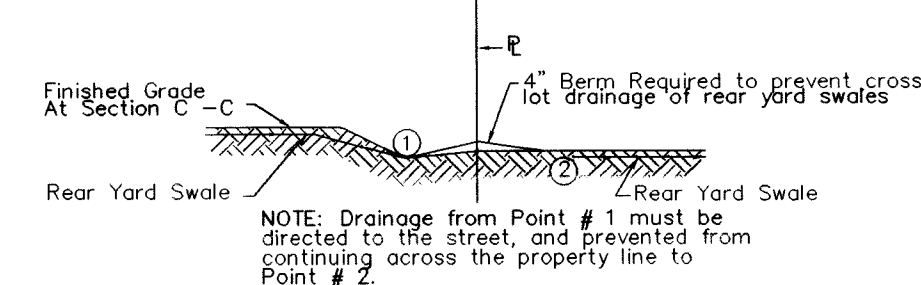


TYPICAL SECTION A - A

N.T.S.
NOTE: FENCES ARE ALLOWED
ON THE PROPERTY LINE WITHIN
THE PRIVATE DRAINAGE EASEMENT



TYPICAL SECTION B - B

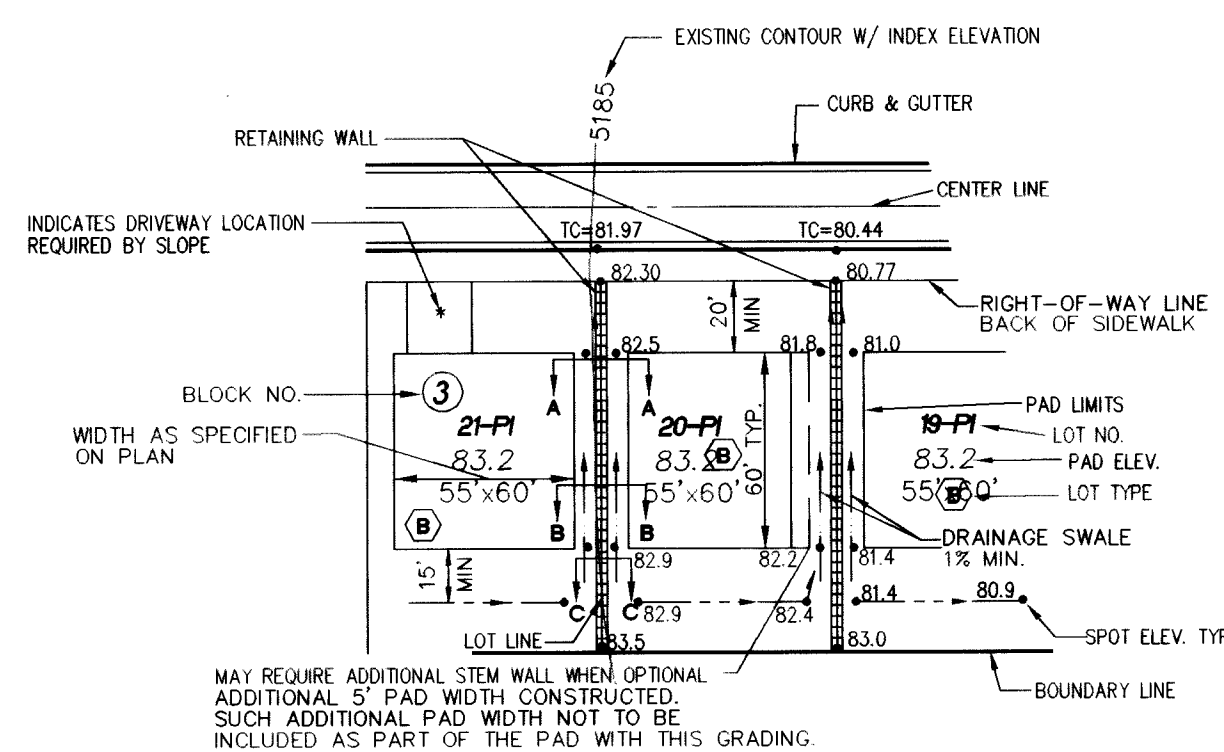


TYPICAL SECTION C - C

N.T.S.

TYPICAL TYPE A LOT GRADING DETAILS

N.T.S.



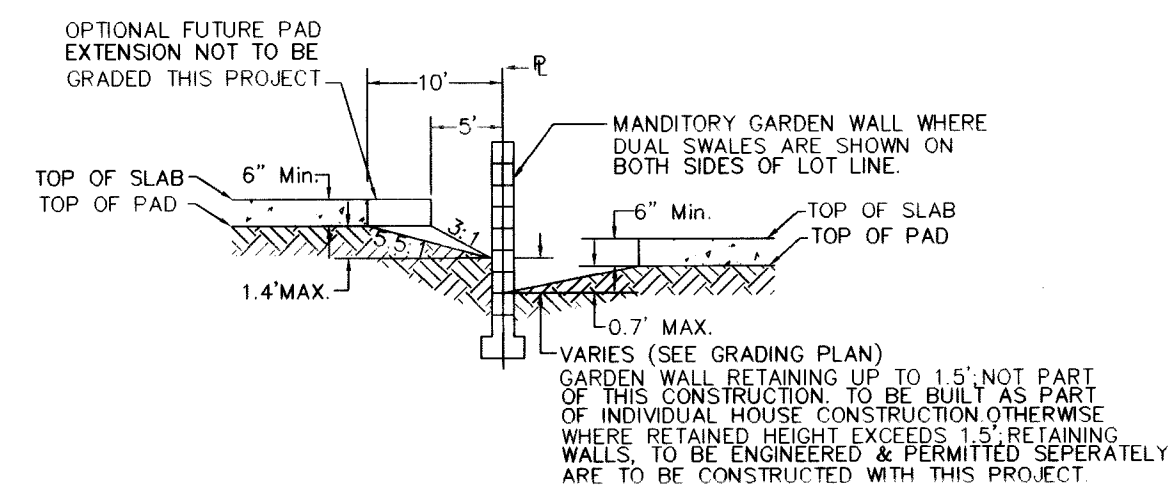
TYPICAL TYPE **B** LOT DETAIL

N.T.S.

- FINISHED GRADE AROUND PERIMETER OF HOUSE SHALL BE A MINIMUM OF 8" BELOW TOP OF CONCRETE SLAB. (SEE SECTIONS THIS SHEET)

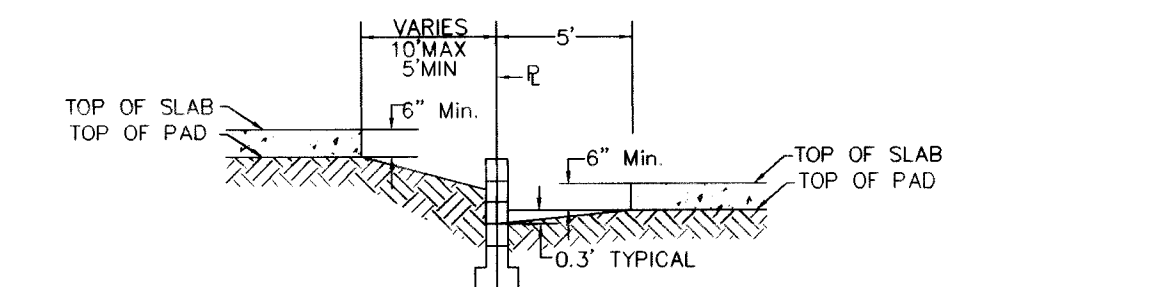
TYPICAL TYPE B LOT GRADING DETAILS

N.T.S.



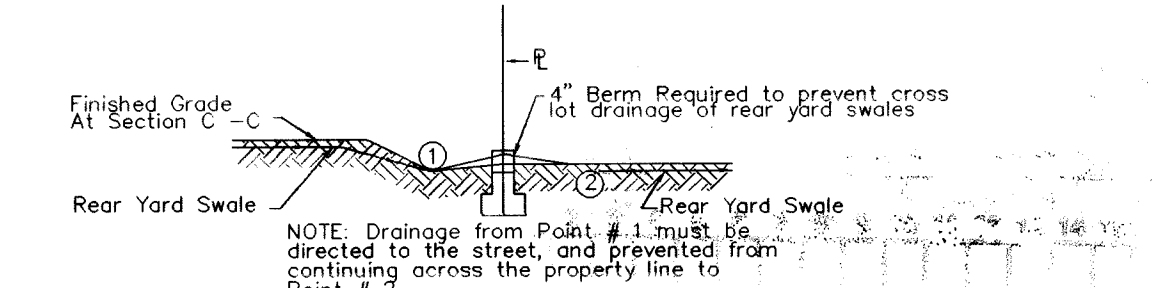
TYPICAL SECTION A - A

N.T.S.



TYPICAL SECTION B - E

N.T.S.

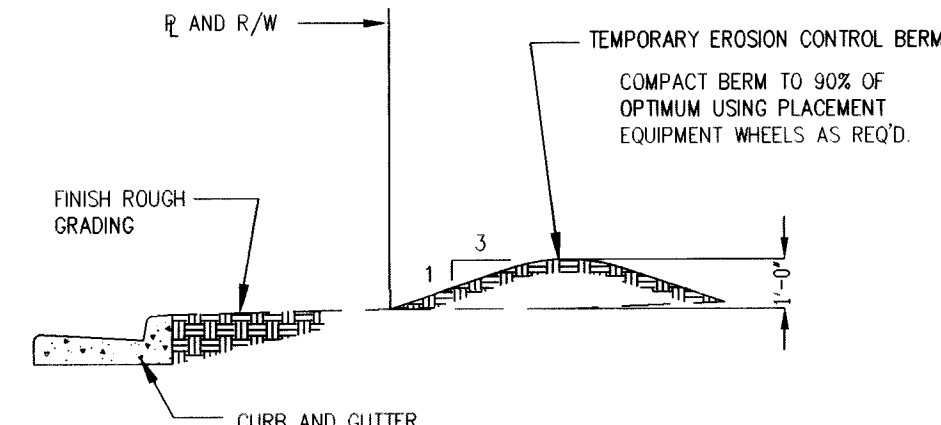


TYPICAL SECTION C - C

N.T.S.

TYPICAL TYPE B LOT GRADING DETAILS

N.T.S.



EROSION CONTROL BERM

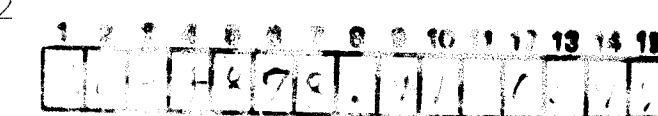
TYPICAL SECTION THROUGH BERM

NOT TO SCALE

NOT TO SCALE

RICHLAND HILLS UNIT 2

COMPRISED OF
TRACT A OF RICHLAND HILLS
SITUATE WITHIN
TOWN OF ALAMEDA GRANT
"PROJECTED" SECTION 13, T11N, R2E, N.M.P.M.
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JUNE, 1994
DRB-94-222



James D. [Signature]
Rev 8-9-94 JDM
1574
Rev JDM
7-14-94
5-26-94

APPROVED FOR ROUGH GRADING
(± 1 FT.)

JPC
JPC
CITY HYDROLOGY

7-14-9
6-27-
DATE

DATE:	MAY 1994
SCALE:	1" = 50'
DESIGNED:	ZJR, JDH
DRAWN:	SPS, CDQ
JOB NO.:	143-11-037

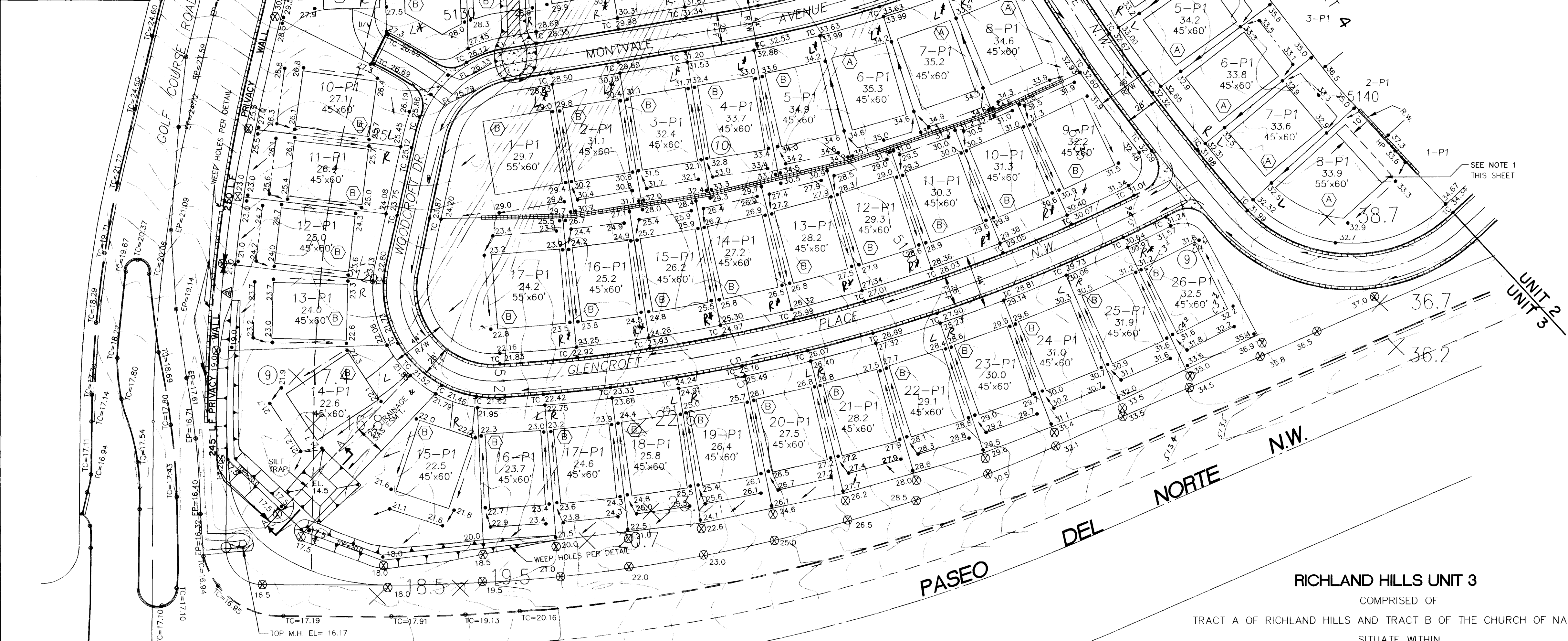
*community
sciences
corporation*

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RICHLAND HILLS UNIT TWO
GRADING AND EROSION CONTROL PLAN

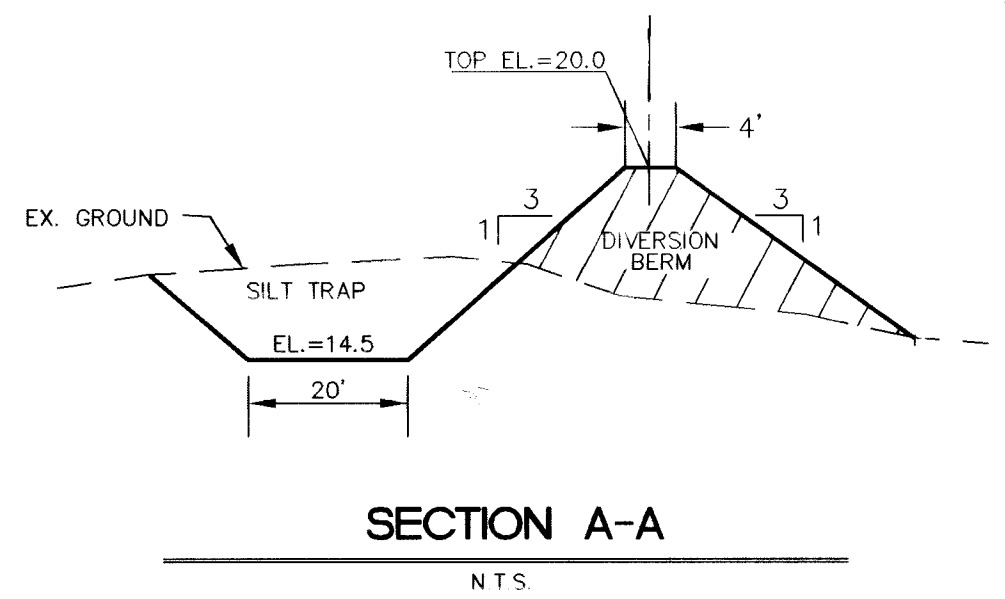
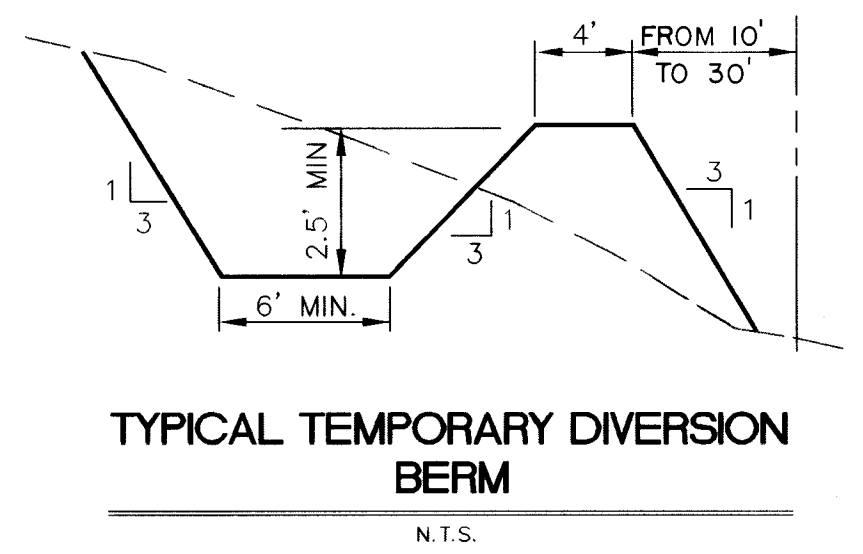
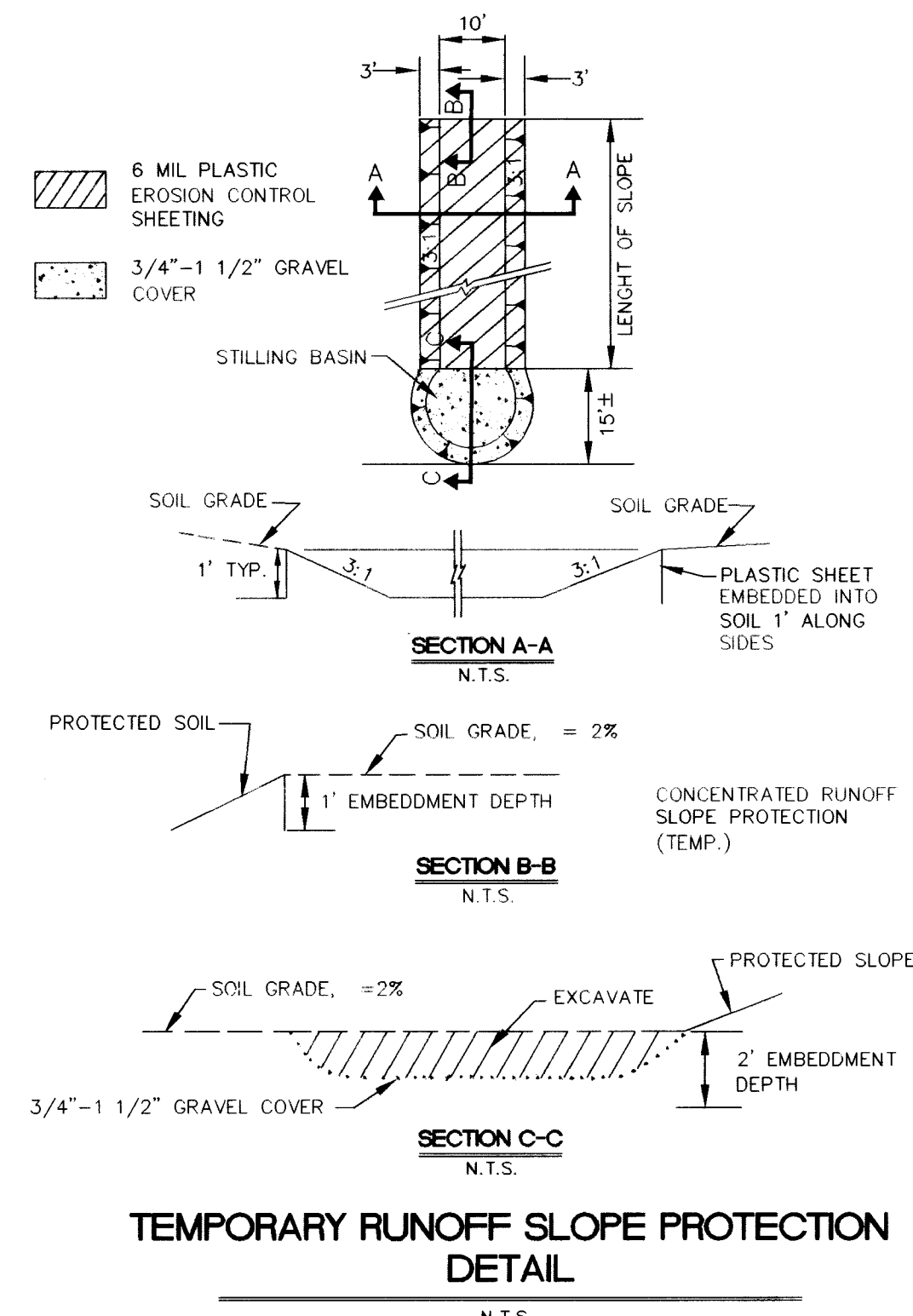
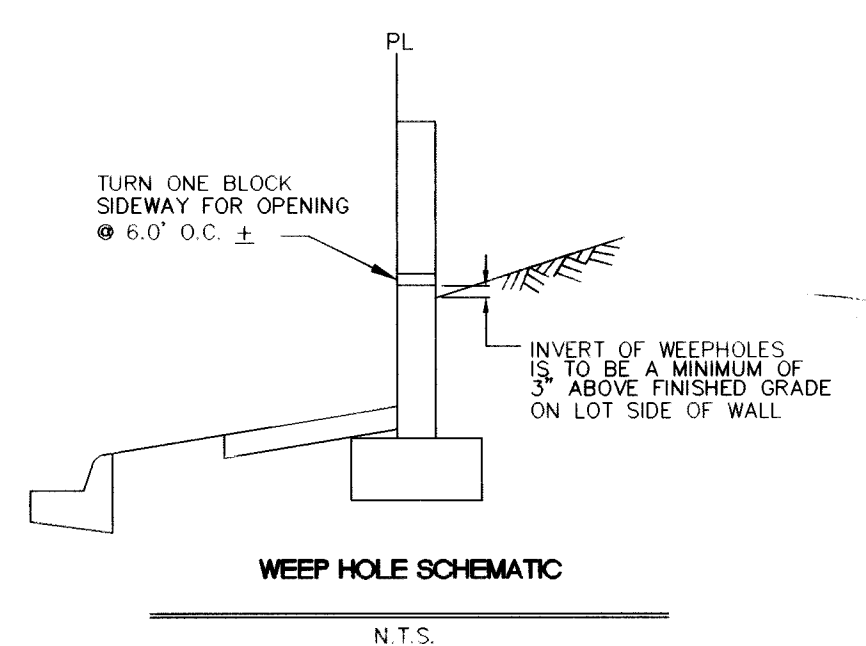
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-8-94	WATER	<i>[Signature]</i>	7-14-94
TRANSPORTATION	<i>[Signature]</i>	7-26-94	WASTE WATER	<i>[Signature]</i>	7-14-94
HYDROLOGY	<i>[Signature]</i>	7-14-94			
PROJECT NO. 4878.91			MAP NO. C-12 SHEET 5 OF 22		

NOTE: SEE INTERIM FLOW DRAINAGE CHANNEL SHEETS FOR THE INTERIM FLOW DRAINAGE CHANNEL AND GRADING. THIS INTERIM CHANNEL AND GRADING PLAN MODIFIES THE CURRENTLY MAPPED FLOODPLAIN. THE CHANNEL AND EASEMENT WILL NOT CONTAIN THE MODIFIED FLOODPLAIN AND LOTS 8 THROUGH 13, BLOCK 8, AND FLOODING UNLESS SUCH TIME AS AMAFCA COMPLETES THE CONSTRUCTION OF THE GOLF COURSE ROADFEDRAS MARCADAS STORM SEWER. AT THAT TIME, AMAFCA WILL BE RESPONSIBLE FOR COMPLETING THE GRADING AS INDICATED ON THE FLOODPLAIN. THE GRADING SHALL BE SUCH THAT ALL OF THE LOTS IN THIS SUBDIVISION ARE REMOVED FROM THE FLOODPLAIN.



HYDRAULIC CALCULATION FOR DROP INLET MANHOLE LOCATED AT N. E. CORNER OF PASEO DEL NORTE AND GOLF COURSE RD.
 LOW POINT E.P. = 16.32
 RIM ELEV. = 16.17
 CENTER OF OPENING IS 1.33' BELOW RIM, SO ORIFACE HEAD AVAILABLE IS $H = 16.32 - (16.17 + 1.33) = 1.48'$
 OPENING CAPACITY IS:
 $Q = 0.07 \times 20.0 \times 0.66 \times \sqrt{64.4 \times 1.48} = 86.34 \text{ CFS}$
 $Q = 53.51 \text{ CFS}$
 CLOGGING FACTOR = 38.02%

LEGEND	
● TC=98.43	PROPOSED TOP OF CURB ELEVATION
● 99.0	PROPOSED SPOT ELEVATION
○ 99.0	EXISTING SPOT ELEVATION (GRND & TC)
▬	EROSION CONTROL BERM
▬	PROPOSED CONCRETE VALLEY GUTTER
▬	EXISTING CURB & GUTTER
▬	PROPOSED MOUNTABLE CURB & GUTTER
▬	PROPOSED STANDARD CURB & GUTTER
▬	EXISTING CONTOUR W/ INDEX ELEVATION
▬	PROPOSED SLOPE
▬	SWALE
▬	FLOW ARROW
▬	PROPOSED RETAINING WALL
▬	30" SD EXISTING STORM DRAIN
▬	30" SD PROPOSED STORM DRAIN
▬	WATER BLOCK (HIGH POINT)
▬	PROPOSED RETAINING/FLOOD WALL
▬	PROPOSED POND
▬	MENDATORY DRIVEWAY



NOTES:
 1. IF PAD DEPTH IS INCREASED, RETAINING WALL AT REAR END OF LOT MAY BE NECESSARY.

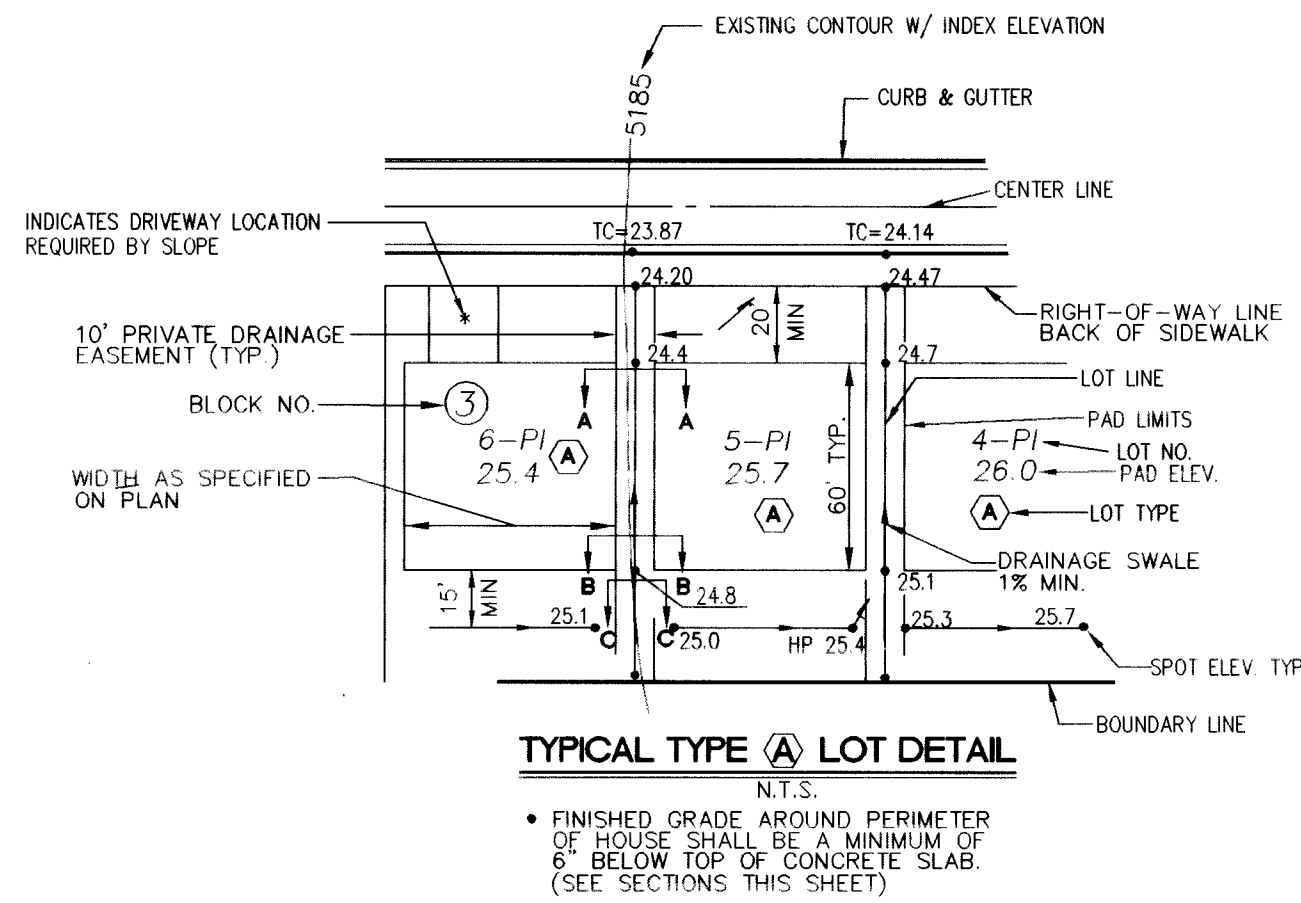
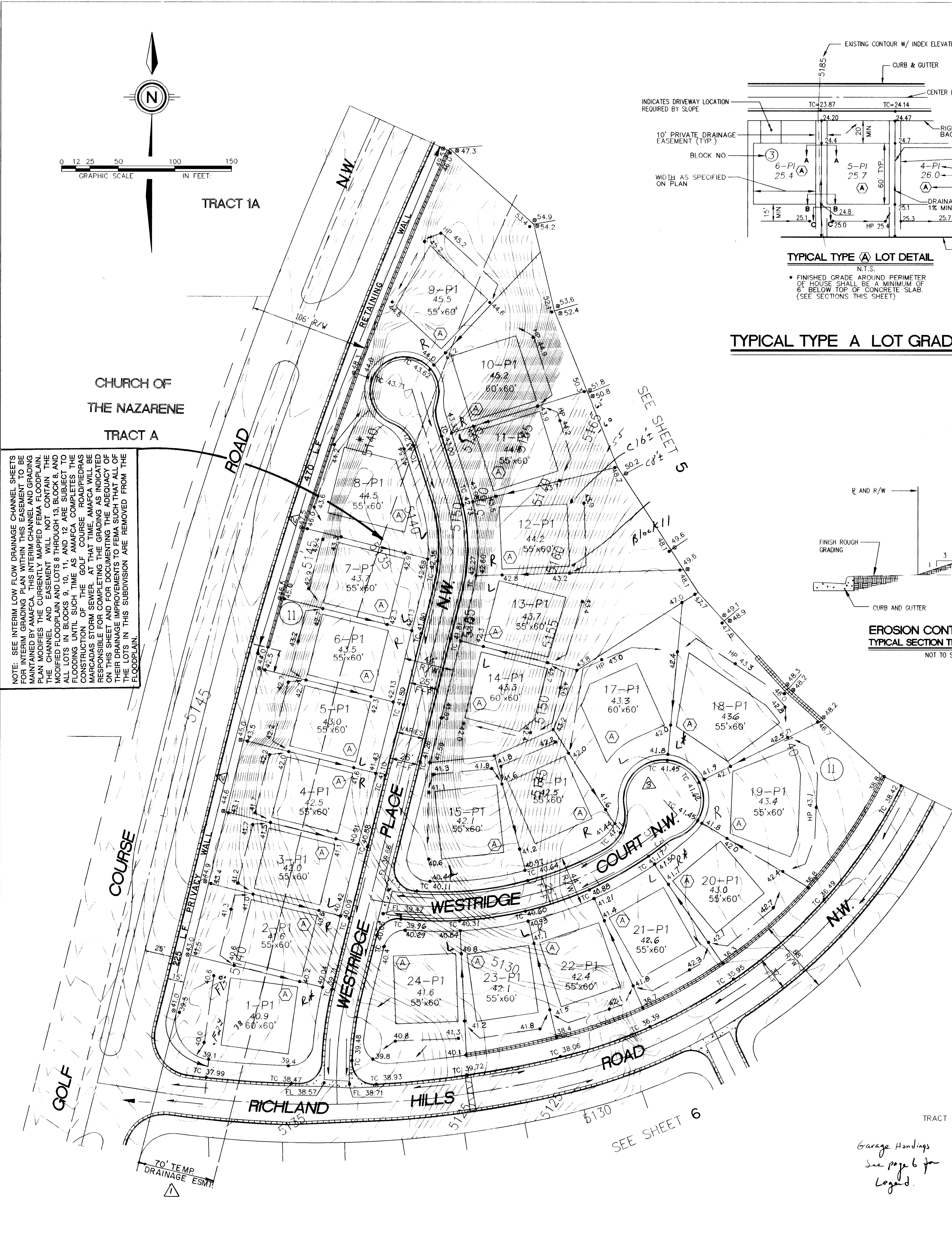
RICHLAND HILLS UNIT 3
 COMPRISED OF
 TRACT A OF RICHLAND HILLS AND TRACT B OF THE CHURCH OF NAZARENE
 SITUATE WITHIN
 TOWN OF ALAMEDA GRANT
 "PROJECTED" SECTION 13, T11N, R2E, N.M.P.M.
 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

JUNE, 1994
 DRB-94-222
 Legend
 L = left
 R = right
 * = mandatory handing

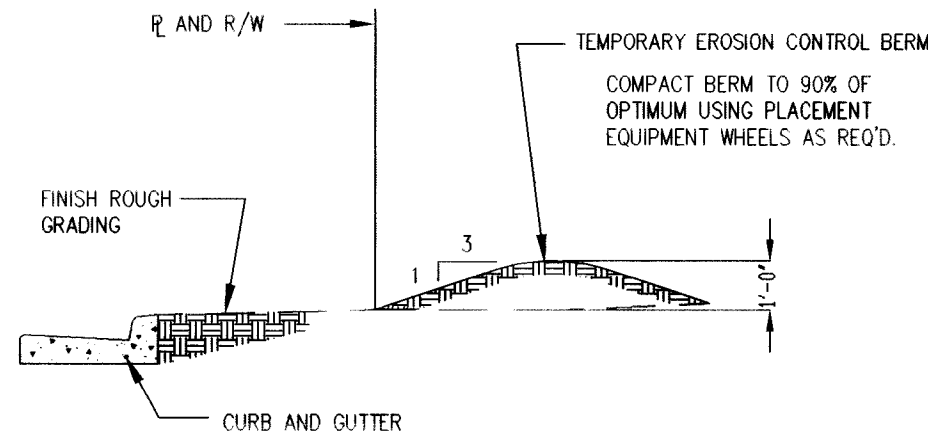
APPROVED FOR ROUGH GRADING
 (± 1 FT.)
 JPC
 JPC
 CITY HYDROLOGY

DATE: MAY, 1994		community sciences corporation	
SCALE: 1"=50'	DESIGNED: JZR, JDH	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
DRAWN: SPS	JOB NO: 143-20-037	TITLE: RICHLAND HILLS UNIT THREE GRADING AND EROSION CONTROL PLAN	
APPROVALS		APPROVALS	
DRG CHAIRMAN	DATE	WATER	ENGINEER
TRANSPORTATION	DATE	WASTE WATER	DATE
HYDROLOGY	DATE	DESIGNED BY	DATE
PROJECT NO.	MAP NO.	CHECKED BY	DATE
4878.91	C-12	6	22

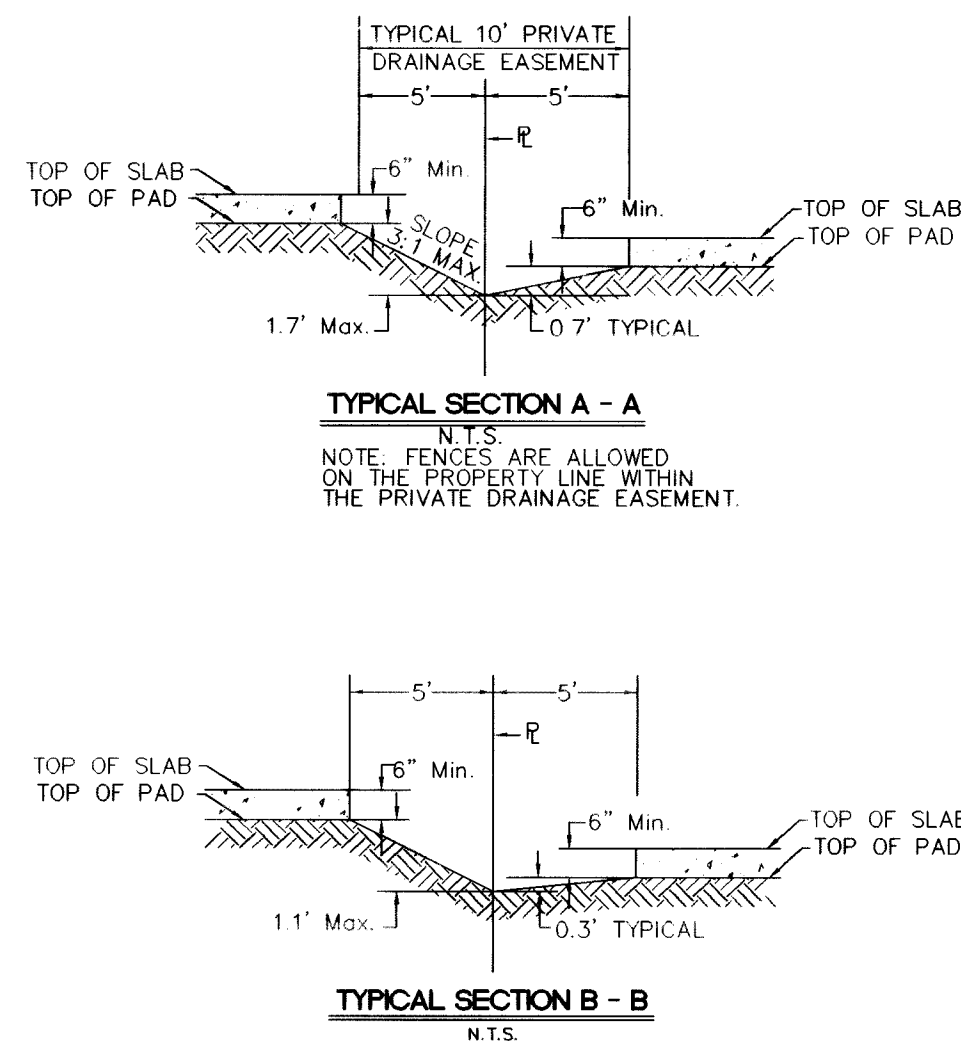
NOTE: SEE INTERIM LOW FLOW DRAINAGE CHANNEL SHEETS FOR INTERIM GRADING PLAN WITHIN THIS EASEMENT TO BE MAINTAINED BY AMAFCA. THIS INTERIM CHANNEL AND GRADING PLAN MODIFIES THE CURRENTLY MAPPED FEMA FLOODPLAIN. THE CHANNEL AND EASEMENTS THROUGH BLOCK 8 AND ADJACENT LOTS TO THE SOUTH OF BLOCK 8, AND THROUGH ALL LOTS IN BLOCKS 9, 10, 11, AND 12 ARE SUBJECT TO FLOODING UNTIL SUCH TIME AS AMAFCA COMPLETES THE CONSTRUCTION OF THE GOLF COURSE ROAD/PIEDRAS MARCADAS STORM SEWER AS THE GRADING AS INDICATED ON THIS SHEET AND FOR DOCUMENTING THE ADEQUACY OF THEIR DRAINAGE IMPROVEMENTS TO FEMA SUCH THAT ALL OF THE LOTS IN THIS SUBDIVISION ARE REMOVED FROM THE FLOODPLAIN.



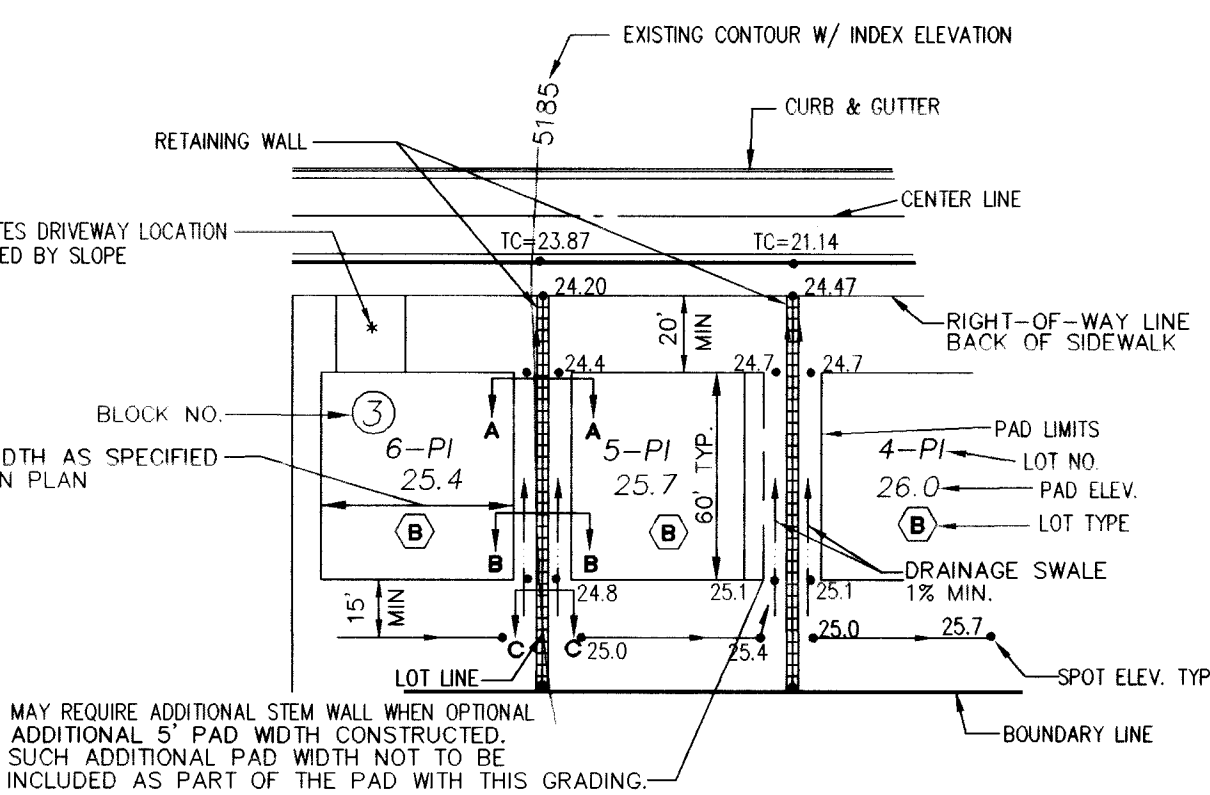
TYPICAL TYPE A LOT GRADING DETAILS



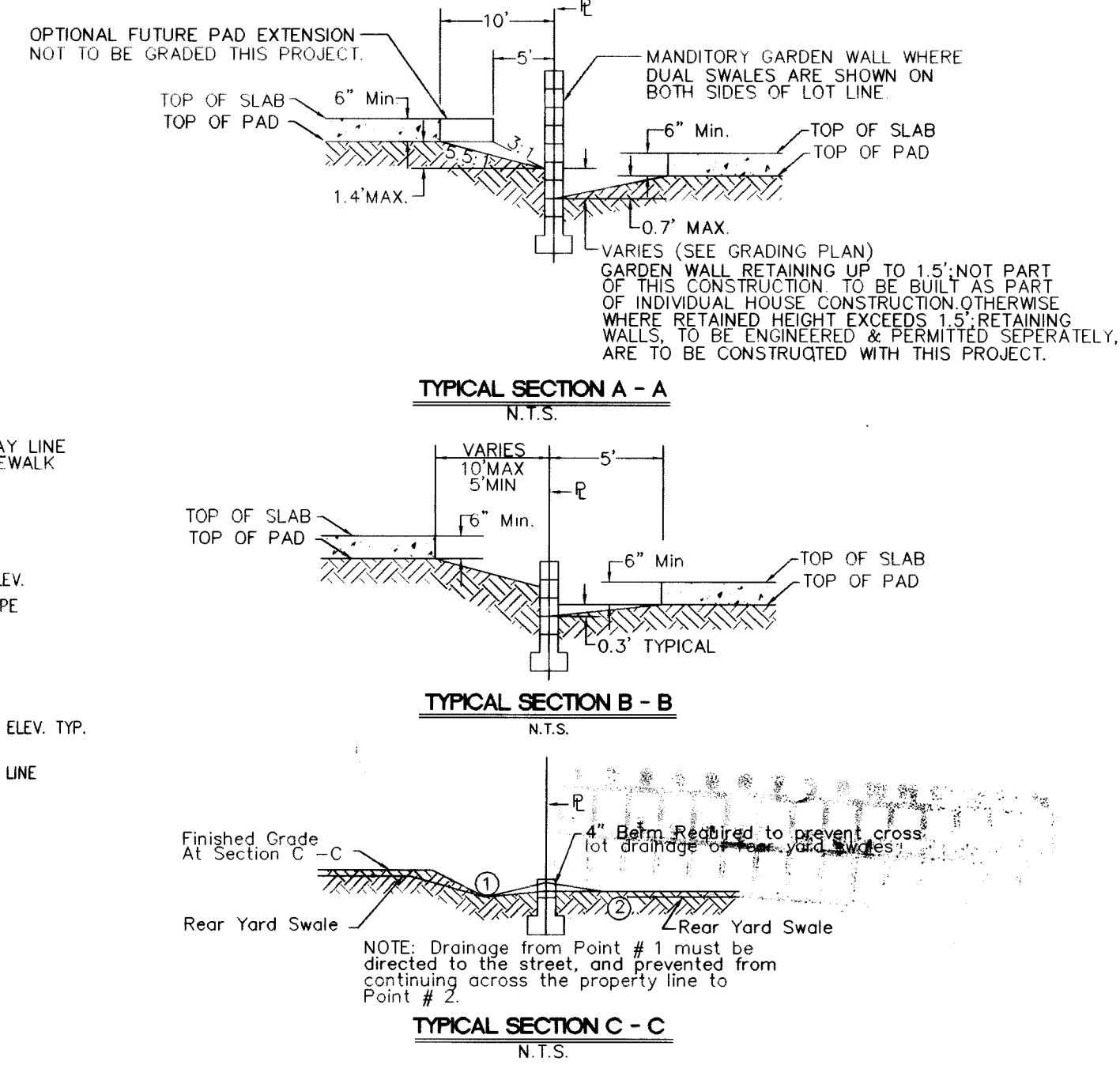
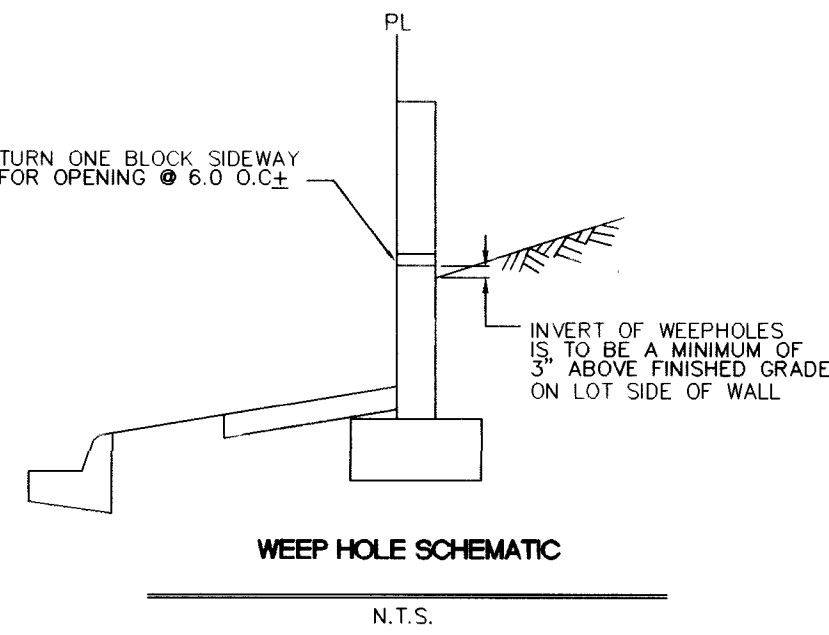
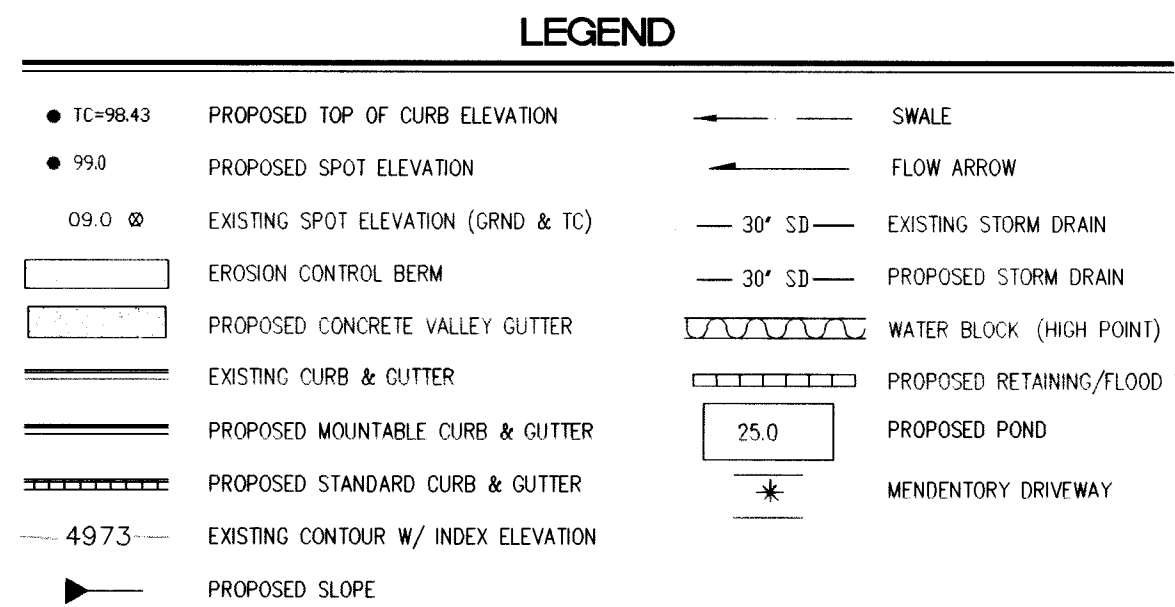
EROSION CONTROL BERM
TYPICAL SECTION THROUGH BERM
NOT TO SCALE



TYPICAL TYPE B LOT DETAIL



TYPICAL TYPE B LOT GRADING DETAILS



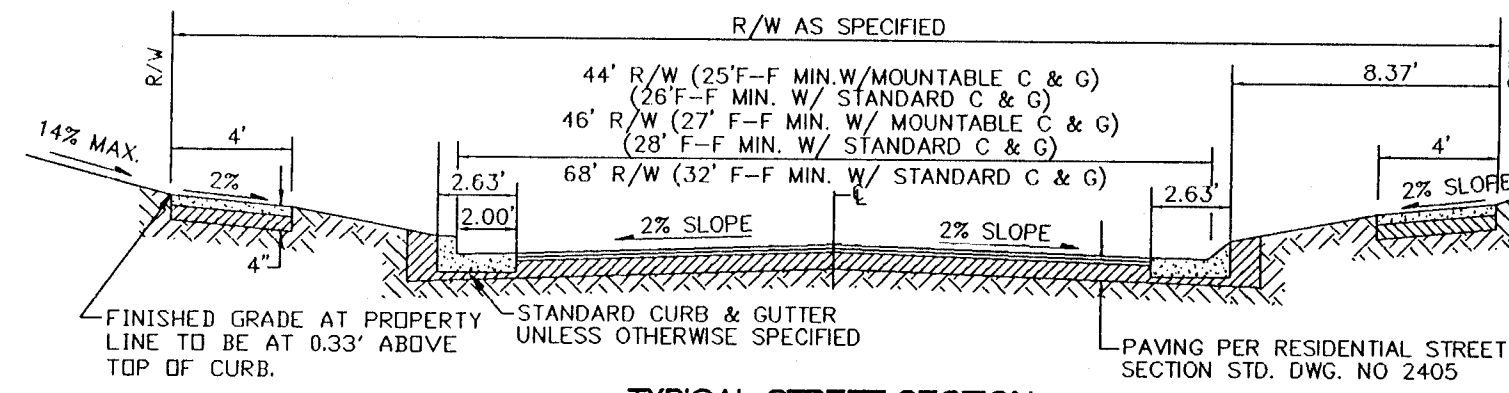
RICHLAND HILLS UNIT 3
COMPRISED OF
TRACT A OF RICHLAND HILLS AND TRACT B OF THE CHURCH OF NAZARENE
SITUATE WITHIN
TOWN OF ALAMEDA GRANT
"PROJECTED" SECTION 13, T11N, R2E, N.M.P.M.
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
JUNE, 1994
DRB-94-222

Garage Handings
See page 6 for
Loged.

APPROVED FOR ROUGH GRADING
(± 1 FT.)
7-14-94
6-27-94
CITY HYDROLOGY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: RICHLAND HILLS UNIT THREE					
GRADING AND EROSION CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	8-8-94	8-8-94	WATER	VIA RWK	7-14-94
TRANSPORTATION	8-8-94	8-8-94	WASTE WATER	VIA RWK	7-14-94
HYDROLOGY	8-8-94	8-8-94			
PROJECT NO.		MAP NO.		SHEET	
4878.91		C-12		7 OF 22	

LEGEND



TYPICAL STREET SECTION
NOT TO SCALE

FOR FOLLOWING STREETS

RICHLAND HILLS RD. N.W.
ROSECLIFF AVE. N.W.
SPRINGHILL DR. N.W.
SILVERCREST CT. N.W.
CLARIDGE PL. N.W.
RIDGEMONT AVE. N.W.
TIMBERIDGE PL. N.W.

UNIT 1
UNIT 2

ROSECLIFF AVENUE N.W.

PINECREST DRIVE N.W.

COURT N.W.

RICHLAND

HILLS

ROAD N.W.

CLARIDGE PLACE N.W.

TIMBERIDGE PLACE N.W.

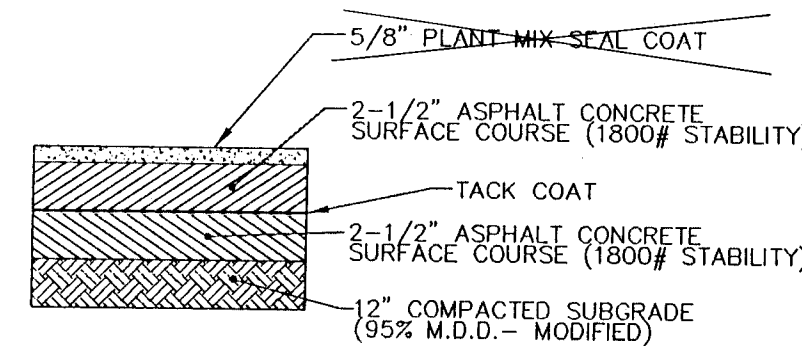
RIDGEMONT AVENUE N.W.

PSEO DEL NORTE, NW

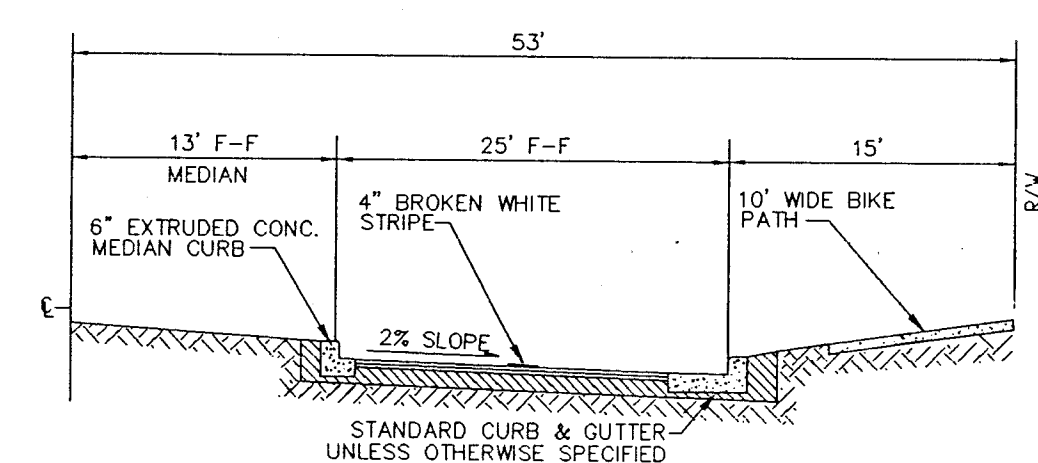
UNIT 2
FUTURE UNIT 3

(TO BE BONDED)
NOT A PART OF THIS CONTRACT

KEYNOTES



ARTERIAL PAVEMENT SECTION
NOT TO SCALE



TYPICAL GOLF COURSE RD. SECTION
NOT TO SCALE

MEANDERING SIDEWALK DETAIL

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

NO. DATE

REMARKS

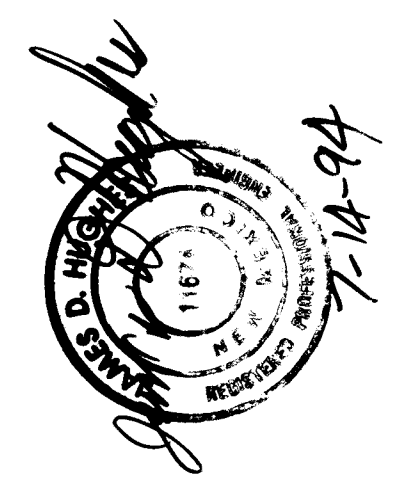
REVISIONS

DESIGN

BY

DATE

MICRO-FILM INFORMATION



community sciences corporation

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE RICHLAND HILLS - UNIT 2
COMPOSITE PAVING PLAN

8-8-94
7-26-94
7-14-94

N/A R/W 7-14-94
N/A R/W 7-14-94

PROJECT NO. 4878.91 MAP NO. C-12 SHEET 8 OF 22

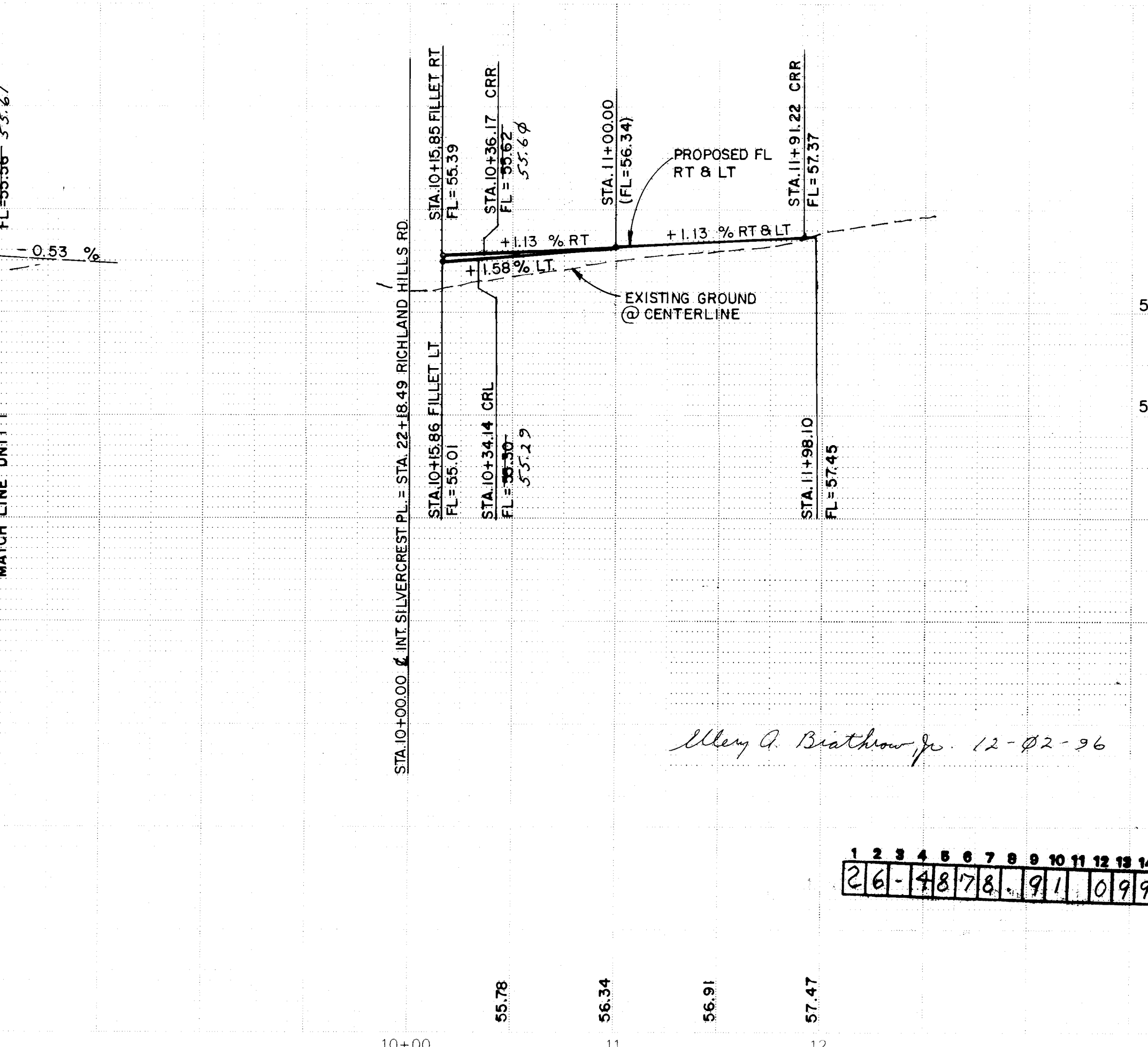
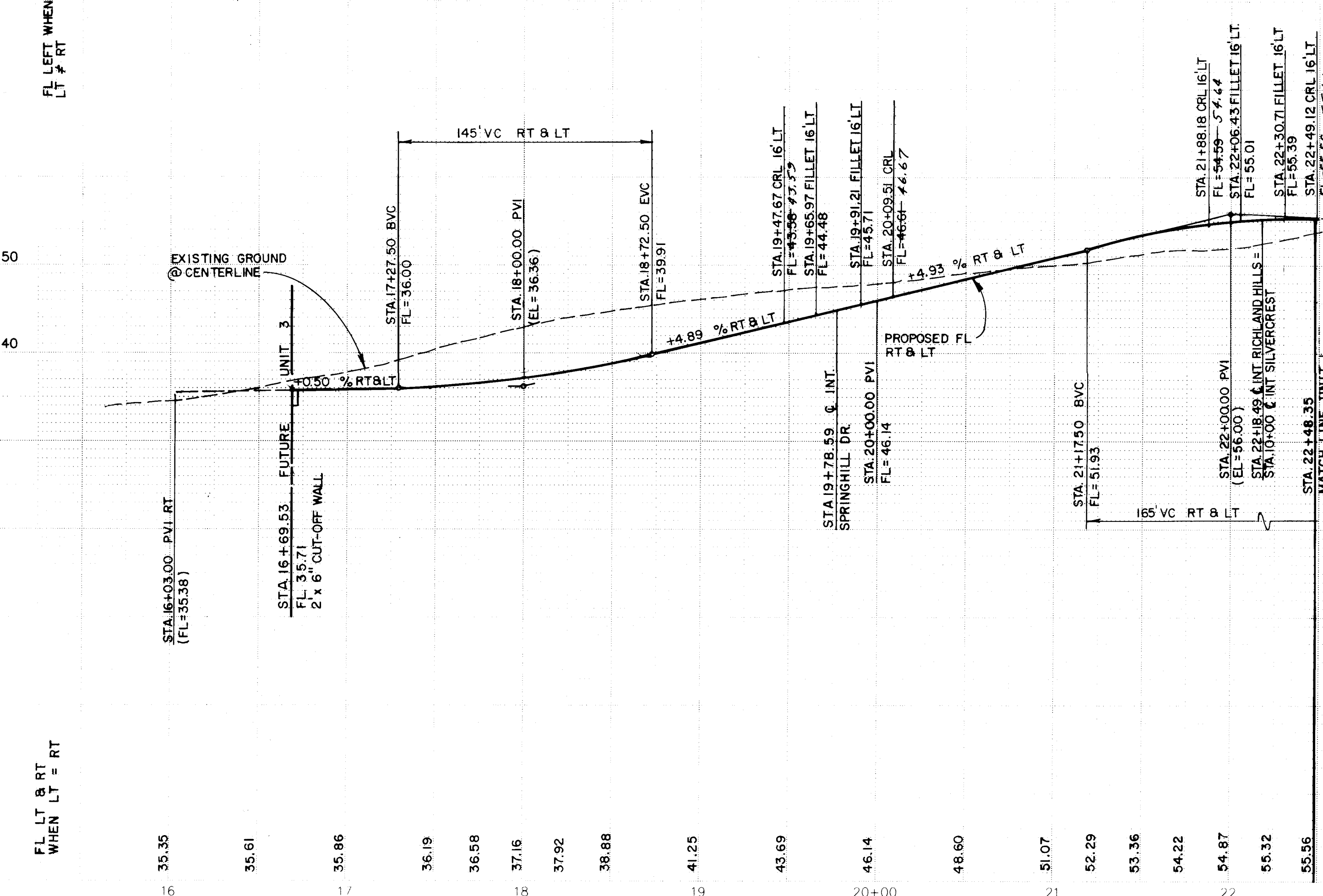
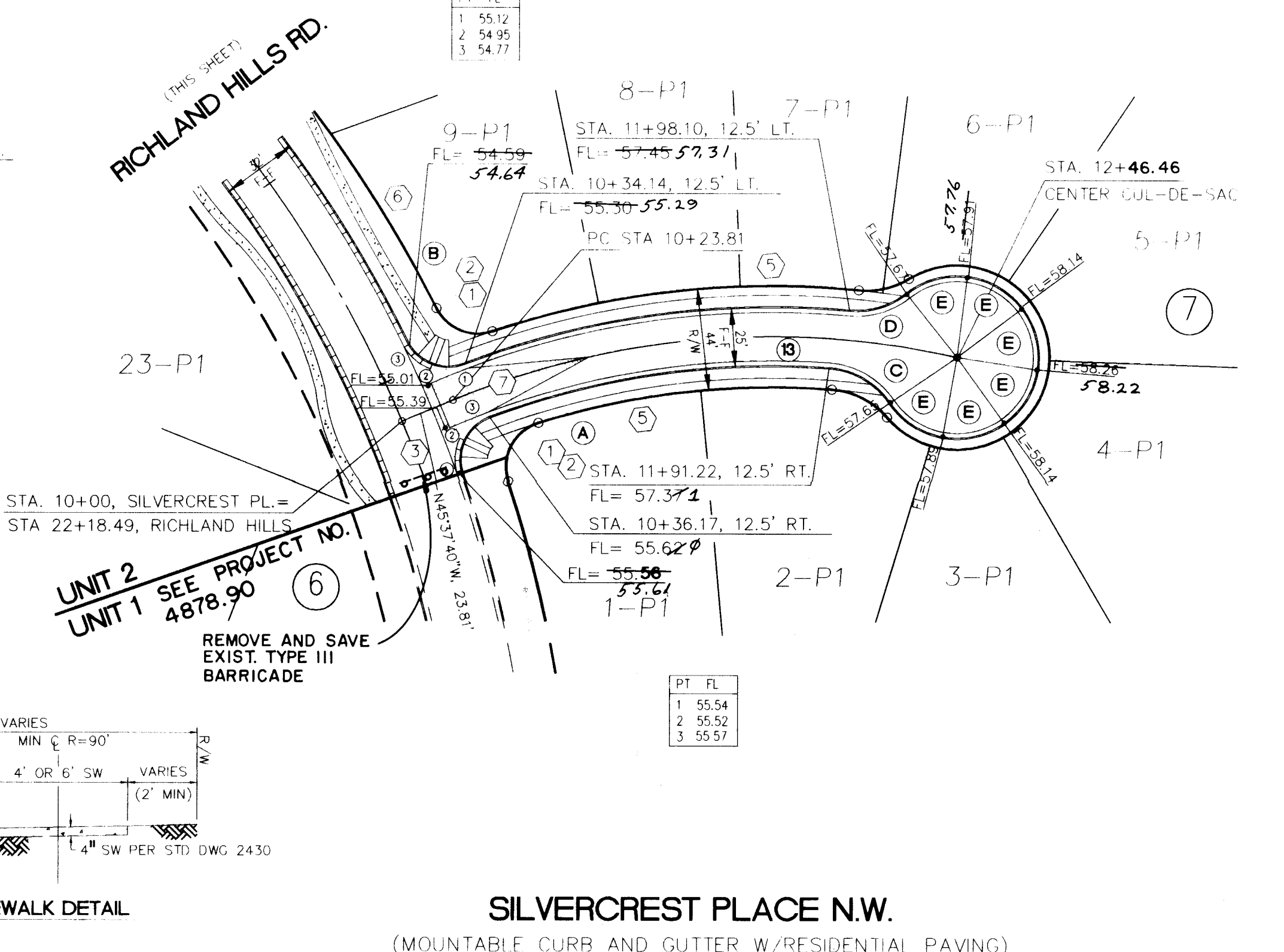
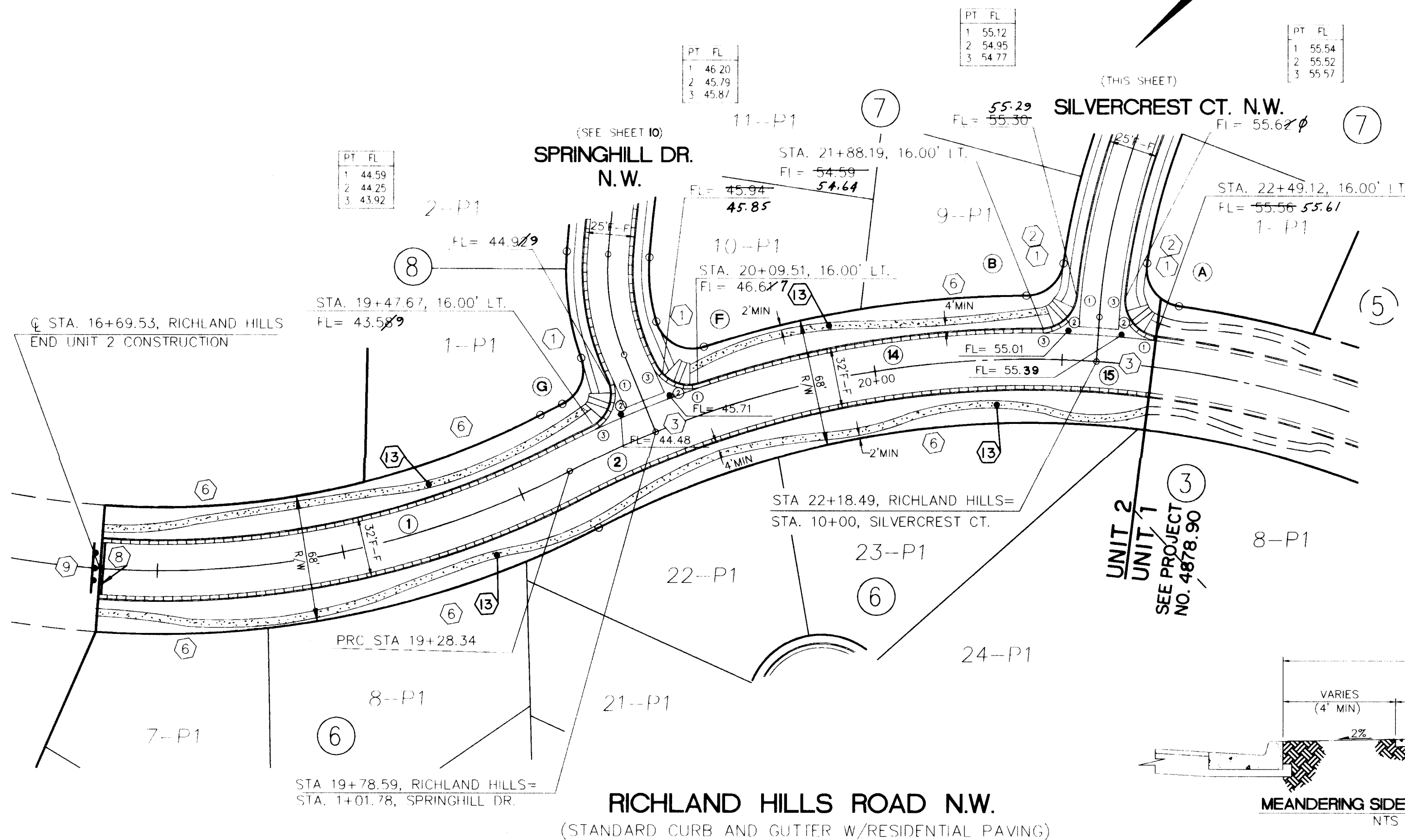
① **Q CURVE DATA**
R= 470.00'
L= 258.80'
Δ= 0°31'33.00"
T= 132.77'
CH= N28°46'51"E, 255.55'

② **Q CURVE DATA**
R= 530.00'
L= 50.25'
Δ= 0°05'25.57"
T= 25.14'
CH= N15°43'20"E, 50.23'

④ **Q CURVE DATA**
R= 530.00'
L= 239.89'
Δ= 0°25'56.02"
T= 122.04'
CH= N31°24'19"E, 237.85'

⑤ **Q CURVE DATA**
R= 530.00'
L= 239.89'
Δ= 0°03'13.42"
T= 14.94'
CH= N45°59'11"E, 29.86'

⑬ **Q CURVE DATA**
R= 360.00'
L= 222.65'
Δ= 0°35'26.11"
T= 115.03'
CH= N27°54'35"W, 219.12'



LEGEND

- FL=74.11
- 73.6
- PROPOSED CURB FLOWLINE ELEVATION
- EXISTING SPOT ELEVATION (GRND & TC)
- PROPOSED VALLEY GUTTER/ SIDEWALK
- EXISTING CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED STANDARD CURB & GUTTER
- CROWN TRANSITION

KEYNOTES

- WH-ELCHAIR RAMP PER COA STD. DWG. 2441. CASE II, UNLESS OTHERWISE NOTED.
- MOUNTABLE TO STANDARD CURB TRANSITION PER COA STD. DWG. 2418
- CONC. VALLEY GUTTER PER COA STD. DWG. 2420
- PROPOSED 6' SIDEWALK, THIS CONTRACT
- FUTURE 4' SIDEWALK, BY OTHERS
- PROPOSED 4' SIDEWALK, THIS CONTRACT
- 50' CROWN TRANSITION PER COA STD. DWG. 2401
- CUTOFF WALL FULL STREET WIDTH, 24" DEEPx 6" THICK
- TYPE III, BARRICADE
- MEANDERING SIDEWALK TO BE CONSTRUCTED CURVILINEARLY IN COMPLIANCE WITH LANDSCAPE ARCHITECT'S DESIGN TO BE APPROVED SEPARATELY BY C.O.A. TRAFFIC DEPT. MIN. DISTANCE FROM BACK OF CURB TO BE 4' AND FROM R/W 2' (SEE DETAIL THIS SHEET)

AS BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

BENCHMARK	ACCS MONUMENT	3-812"	LOCATED ON	AVIA BOOK

SURVEY INFORMATION

FIELD NOTES	DATE	BY

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REVISIONS	BY

DESIGN

DESIGNED BY	DATE	DATE
ZJR	JAN. 1994	
ARM	JAN. 1994	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

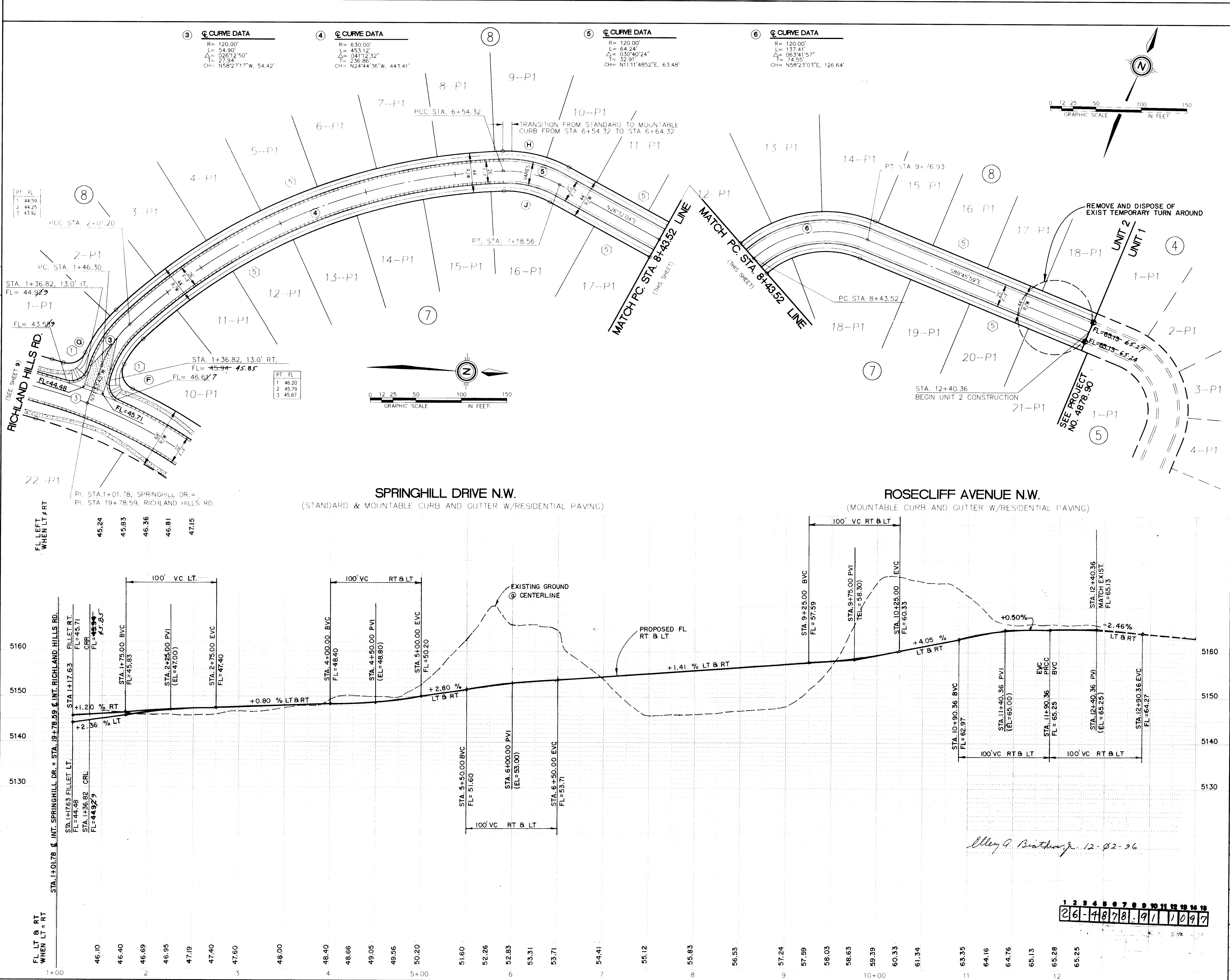
TITLE: RICHLAND HILLS- UNIT 2 PAVING PLAN & PROFILE RICHLAND HILLS RD. & SILVERCREST CT. N.W.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	S. J. Brathorn	8-8-94	WATER	N/A	RWF 7-14-94
TRANSPORTATION	J. Brathorn	7-26-94	WASTE WATER	N/A	RWF 7-14-94
HYDROLOGY	NA JPC	7-14-94			

PROJECT NO. 4878.91

MAP NO. C-12

SHEET 9 OF 22

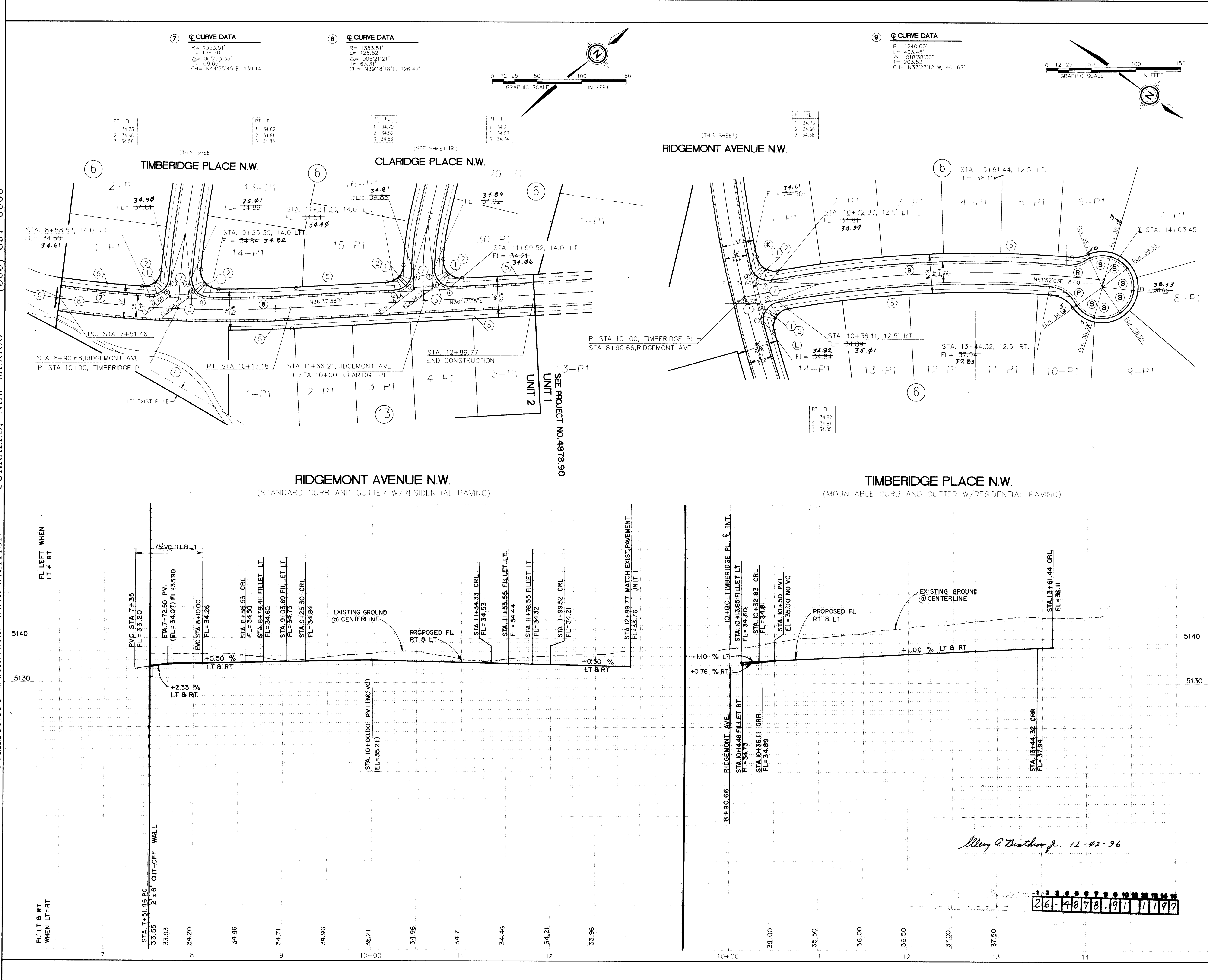


AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
NO.	DATE	NO.	DATE	NO.	DATE	REVISIONS	
						DESIGNED BY: ZJR	
						DRAWN BY: ARM	
						CHECKED BY: DATE	
MICRO-FILM INFORMATION		RECORDS BY: DATE		NO.		DATE	

ENGINEER'S SEAL

community sciences corporation

14311-041 **LAND PLANNING** **P.O. Box 1328** **ENGINEERING** **Corrales, N.M. 87046** **SURVEYING**



LEGEND

- FL=74.11 PROPOSED CURB FLOWLINE ELEVATION
- 73.6 EXISTING SPOT ELEVATION (GRND & TC)
- PROPOSED VALLEY GUTTER/ SIDEWALK
- EXISTING CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED STANDARD CURB & GUTTER
- CROWN TRANSITION

KEYNOTES:

- WHEELCHAIR RAMP PER COA STD. DWG. 2441 CASE II, UNLESS OTHERWISE NOTED.
- MOUNTABLE 10 STANDARD CURB TRANSITION PER COA STD. DWG. 2418
- CONC. VALLEY GUTTER PER COA STD. DWG. 2420
- PROPOSED 6' SIDEWALK, THIS CONTRACT
- FUTURE 4' SIDEWALK, BY OTHERS
- PROPOSED 4' SIDEWALK, THIS CONTRACT
- 50' CROWN TRANSITION PER C.O.A. STD. DWG. 2401
- CUTOFF WALL FULL STREET WIDTH, 24" DEEP x 6" THICK
- TYPE III, BARRICADE

CURB CURVE DATA
(Face of Curb)

CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG	CHORD
K	20.00	30.93	088-36-01	S00-57-28E	27.94
L	20.00	32.84	094-22-32	S87-42-19W	28.34
P	35.00	34.93	057-01-28	N02-21-08W	33.41
R	35.00	22.28	085-36-15	S48-32-52E	21.97
S	35.00	27.78	045-28-12		

SCALE:
1"= 50' HORIZ.
1"= 10' VERT.

community sciences corporation

DESIGNED BY: JJP
DRAWN BY: ABM
CHECKED BY:

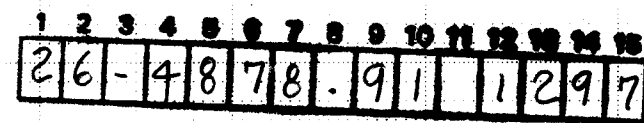
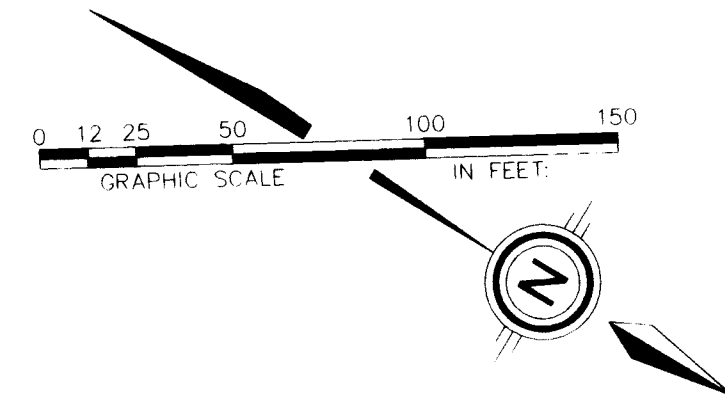
DESIGNED BY: JJP
DATE: JAN. 1994
DRAWN BY: ABM
DATE: JAN. 1994
CHECKED BY:

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: RICHLAND HILLS- UNIT 2
PAVING PLAN & PROFILE
RIDGEMONT AVENUE & TIMBERIDGE PLACE N.W.**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
URC CHAIRMAN	<i>[Signature]</i>	8-8-94	WATER	<i>[Signature]</i>	7-14-94
TRANSPORTATION	<i>[Signature]</i>	7-26-94	WASTE WATER	<i>[Signature]</i>	7-14-94
HYDROLOGY	<i>[Signature]</i>	7-14-94	A.M.A.F.C.A.		

PROJECT NO. **4878.91** MAP NO. **C-12** SHEET **11** OF **22**



Elmer P. Bistrow, Jr. 12-02-96

KEYNOTES

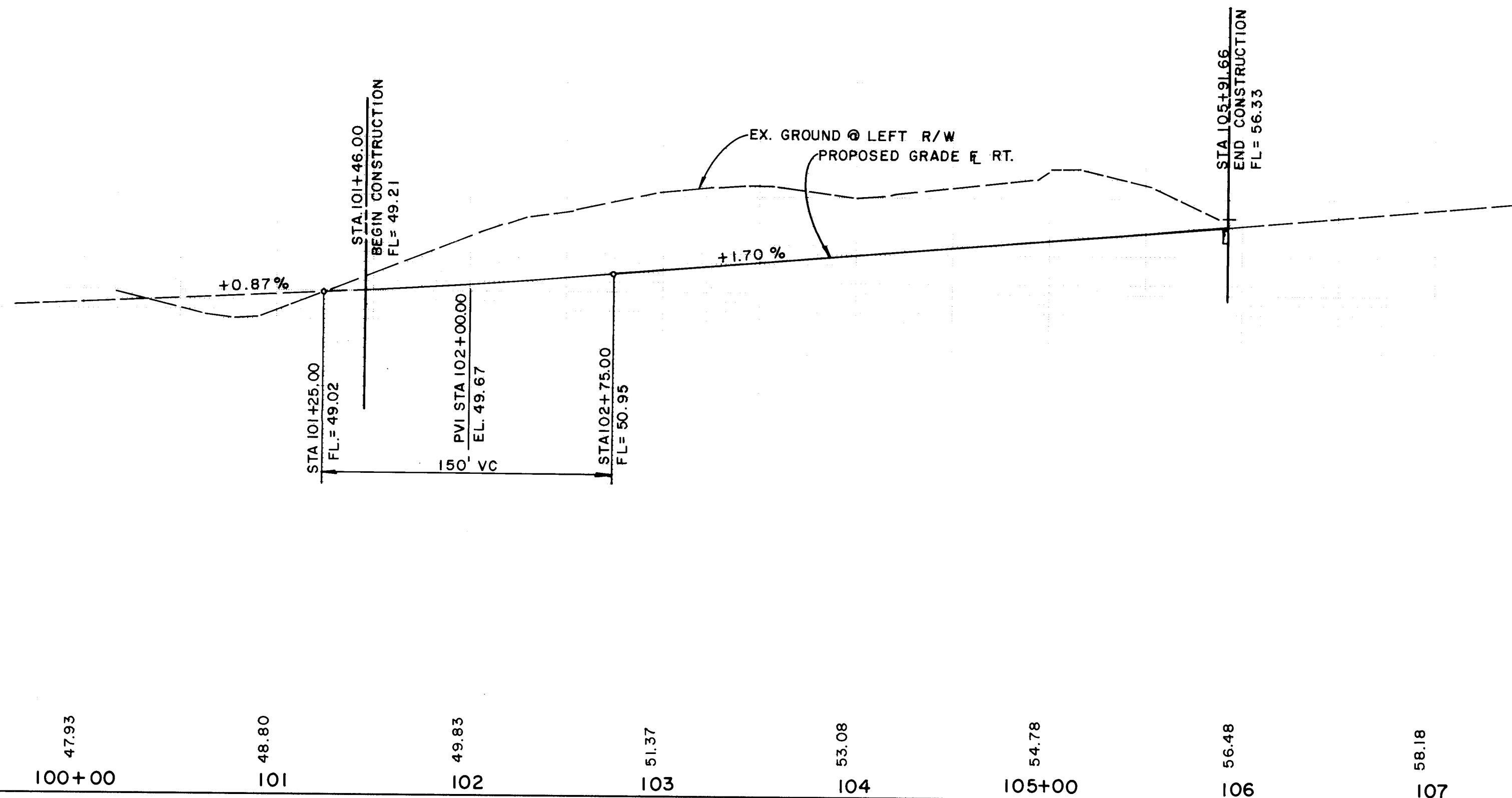
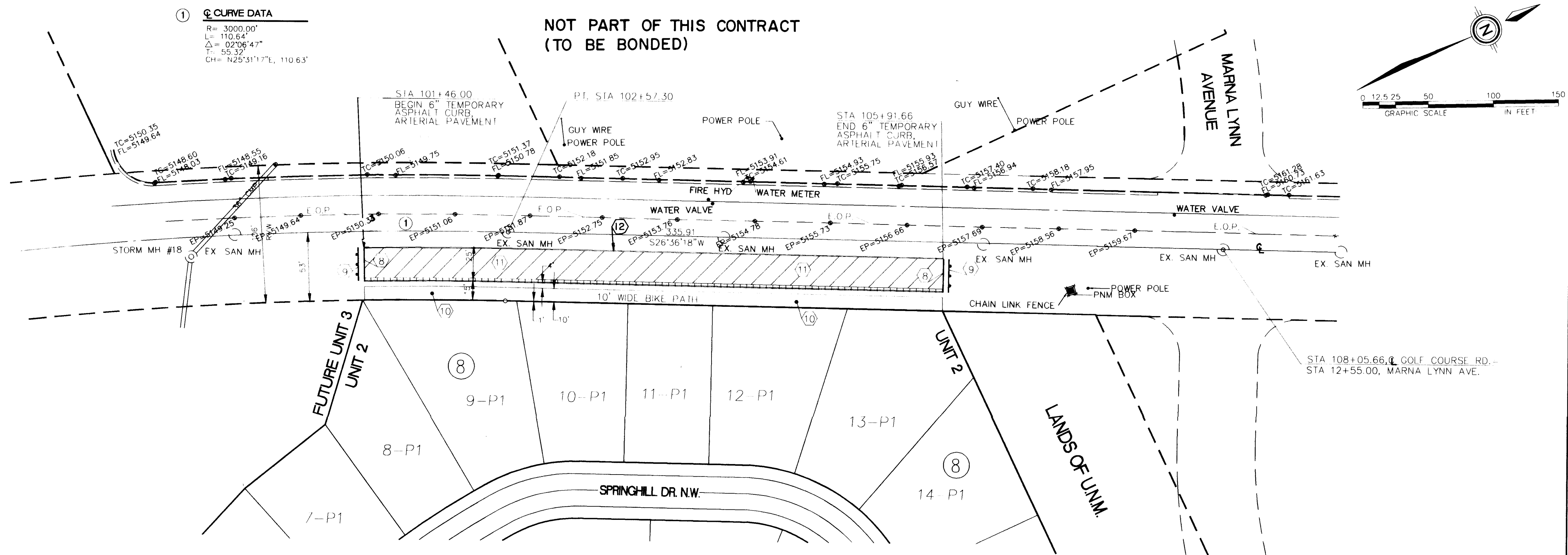
1	WHEELCHAIR RAMP PER COA STD. DWG. 2441 CASE II, UNLESS OTHERWISE NOTED.
2	MOUNTABLE TO STANDARD CURB TRANSITION PER COA STD. DWG. 2418
3	CONC. VALLEY GUTTER PER COA STD. DWG. 2420
4	PROPOSED 6' SIDEWALK, THIS CONTRACT
5	PROPOSED 4' SIDEWALK, THIS CONTRACT
7	50' CROWN TRANSITION PER C.O.A. STD. DWG. 2401
8	CUTOFF WALL FULL STREET WIDTH, 24" DEEP x 6" THICK
9	TYPE III, BARRICADE

BENCH MARKS

BENCHMARK : ACS MONUMENT "3-B72" LOCATED ON LAVA ROCK
ESCAPMENT APPROXIMATELY 1/2 MILE SOUTHEAST
OF THE INTERSECTION OF PAULCEFF ROAD N.W.
AND PARADISE BOULEVARD N.W., ELEVATION 5277.26

SCALE : 1"= 50' HORIZ. 1"= 10' VERT.	 LAND PLANNING ENGINEERING SURVEYING P.O. Box 1328 Corralles, N.M. 87048
JOB NO.: 1A311-041	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: RICHLAND HILLS- UNIT 2 PAVING PLAN & PROFILE CLARIDGE PLACE N.W.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Smalley</i>	8-8-94	WATER	N/A RWK	7-19-94
TRANSPORTATION	<i>W. K...</i>	7-26-94	WASTE WATER	N/A RWK	7-19-94
HYDROLOGY	<i>NA FPC</i>	7-14-94	A.M.A.F.C.A.		
PROJECT NO. 4878.91		MAP NO. C-12	SHEET 12 OF 22		



Wiley A. Brathorn, Jr. 12-02-96

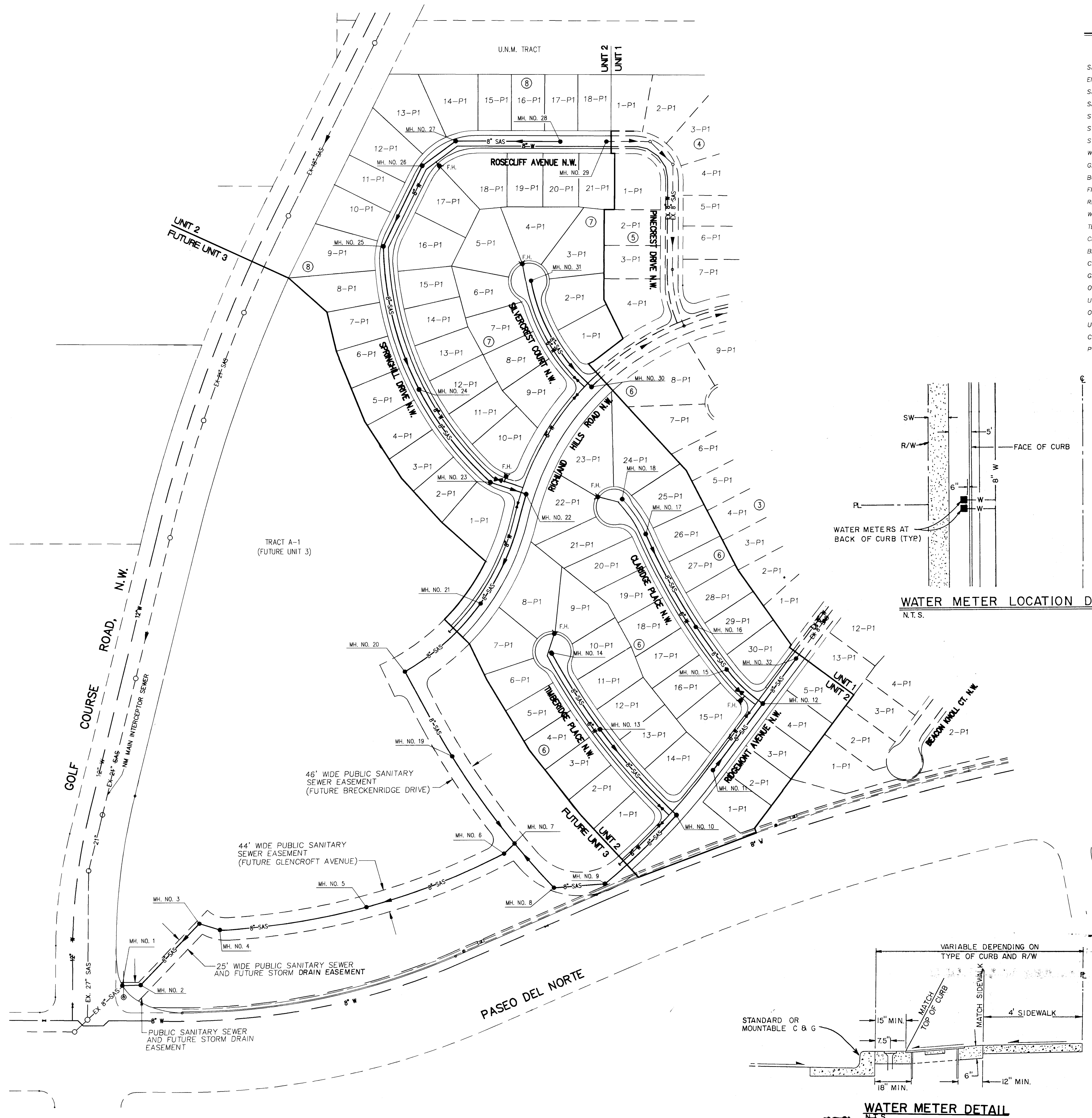
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4878-91-1397

SCALE:
1"= 50' HORIZ.
1"= 10' VERT.

community sciences corporation

LAND PLANNING P.O. Box 1328
ENGINEERING Corrales, N.M. 87048
SURVEYING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: RICHLAND HILLS- UNIT 2 PAVING PLAN & PROFILE GOLF COURSE ROAD N.W.			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	WATER	8-8-94	WATER
TRANSPORTATION	WASTE WATER	7-26-94	WASTE WATER
HYDROLOGY	A.M.A.F.C.A.	7-14-94	A.M.A.F.C.A.
PROJECT NO.	MAP NO.	SHEET	OF
4878.91	C-12	13	22



NOTES:

1. ALL WATERLINE FITTINGS SHALL HAVE CONCRETE BLOCKING PER CITY STD. DWG. 2320
2. ALL FIRE HYDRANTS WILL HAVE VALVE CONNECTED TO TEE AT MAIN.
3. ALL WATERLINES SHALL BE PVC (AWWA C-900).

WATER METER LOCATION DETAIL
N.T.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	-	4	8	7	8	.	9	1		1	4	9	7

community
sciences
corporation

JOB NO.: 055
14319-056

LAND PLANNING
P.O. Box 1328

ENGINEERING
Corrales, N.M. 87048

SURVEYING
Corrales, N.M. 87048

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

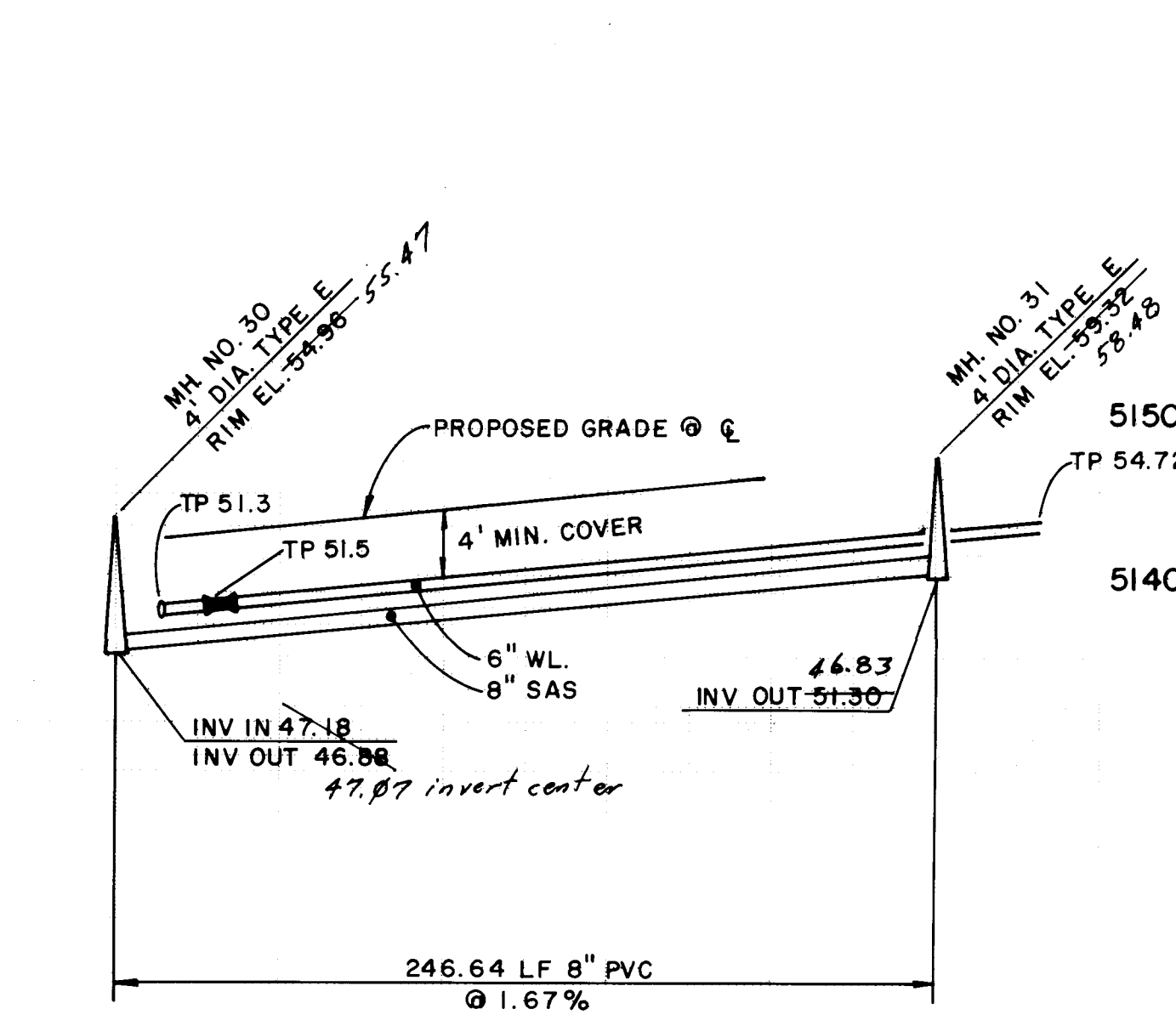
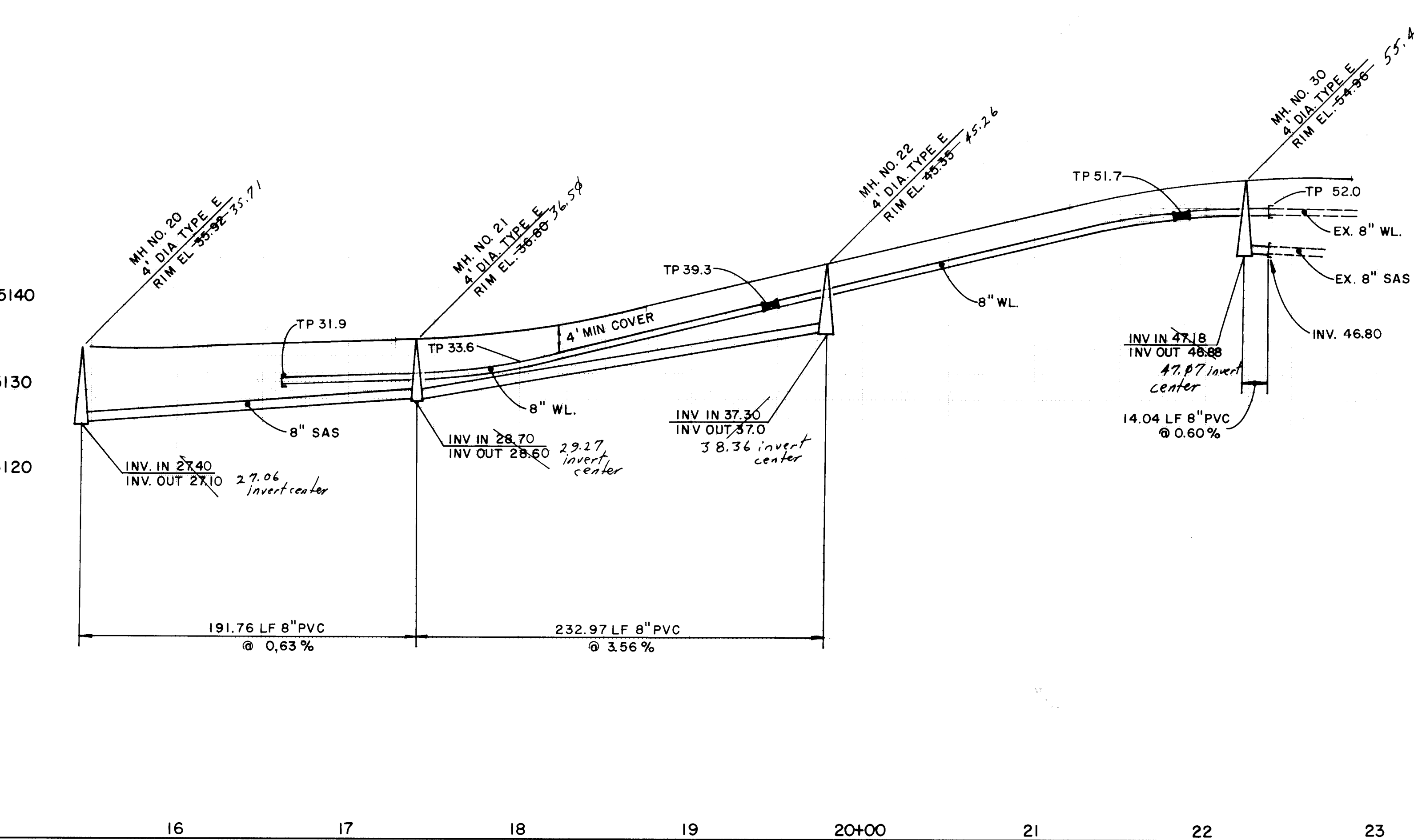
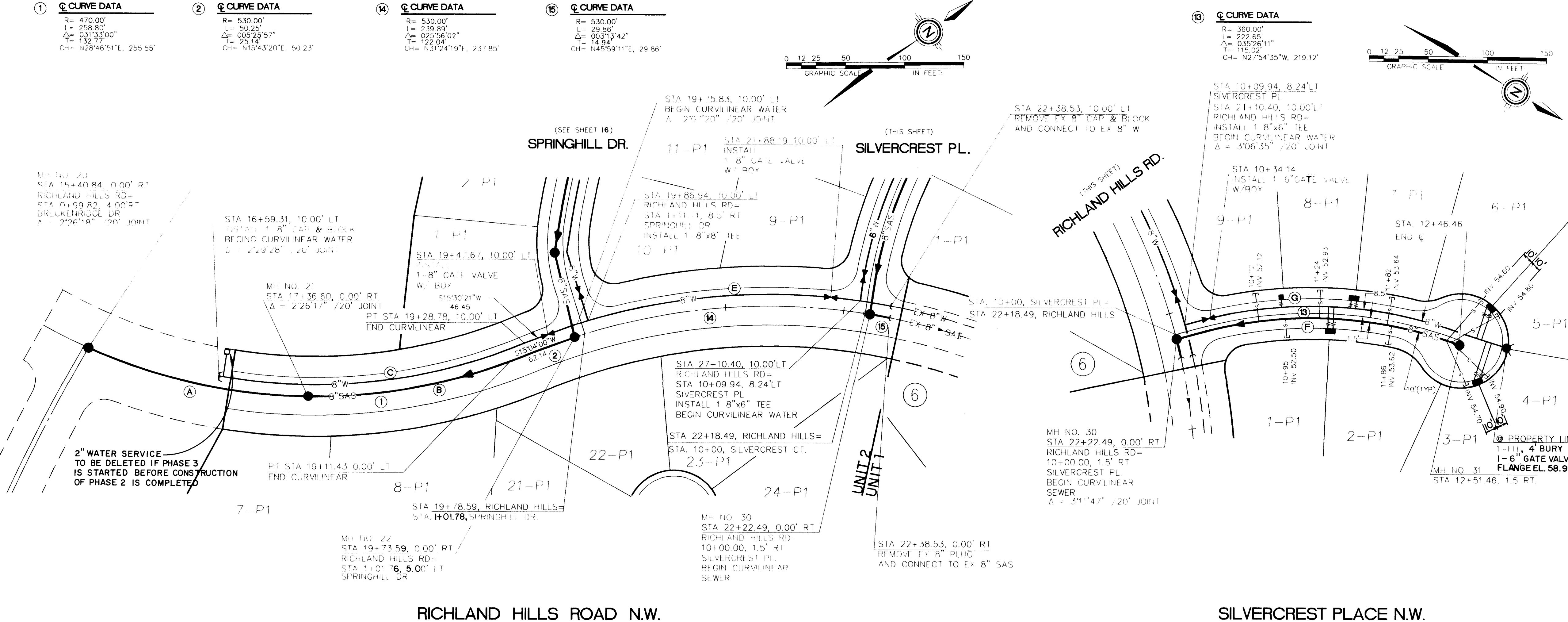
TITLE: RICHLAND HILLS-UNIT 2
COMPOSITE UTILITY PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. B. Kopylov</i>	<i>8-8-94</i>	WATER	<i>N/A</i>	<i>RWK 7-14-94</i>
TRANSPORTATION	<i>N/A</i>	<i>7-26-94</i>	WASTE WATER	<i>N/A</i>	<i>RWK 7-14-94</i>
HYDROLOGY	<i>N/A</i>	<i>7-24-94</i>	A.M.A.F.C.A.		
NMUI	<i>N/A</i>	<i>7-8-94</i>			
PROJECT NO.	4878.91		MAP NO.	C-12	
			SHEET	14 OF 22	

[illegible]

SCANNED BY
BY LASON

① CURVE DATA	② CURVE DATA	⑬ CURVE DATA	⑮ CURVE DATA
R= 470.00' L= 258.80' Δ= 031°33'00" T= 132.77' CH= N28°46'51"E, 255.55'	R= 530.00' L= 50.25' Δ= 009°25'57" T= 25.14' CH= N15°43'20"E, 50.23'	R= 530.00' L= 239.89' Δ= 025°56'02" T= 122.04' CH= N31°24'19"E, 237.85'	R= 530.00' L= 29.86' Δ= 003°13'42" T= 14.94' CH= N45°59'11"E, 29.86'



UTILITY LEGEND	
DESCRIPTION	PROPOSED
SANITARY SEWER LINE	—SAS—8"
ENCASEMENT	—SAS—8"
SANITARY SEWER MANHOLE	—S—
SAS SERVICE CONNECTION	—S—
STORM DRAIN LINE	—SD—30"
STORM DRAIN MANHOLE	—SD—30"
STORM DRAIN INLETS	—SD—30"
WATER LINE	—W—
GATE VALVE	—G—
BUTTERFLY VALVE	—B—
FIRE HYDRANTS	—H—
REDUCERS	—R—
WATER SERVICE / METER	—WS—
TEES	—T—
CROSSES	—C—
BENDS	—B—
CAPS & PLUGS	—P—
GAS LINES	—G—

UTILITY CURVE DATA (At C.L. of Pipes)					
CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG	CHORD
A	470.00	195.76	23-51-52	S48-18-44W	194.35
B	470.00	174.83	21-18-48	S25-43-24W	173.83
C	480.00	253.30	32-47-44	S29-24-13W	259.72
D	540.00	289.14	28-33-25	N32-15-40E	286.36
E	358.50	250.64	40-03-25	N29-24-30W	245.56
F	368.50	241.79	37-35-38	N28-59-18W	237.47
G	631.50	258.82	23-18-04	N39-23-38W	255.05
H	631.50	282.07	23-46-39	N12-51-17W	250.19
I	621.00	507.85	48-51-21	N24-31-50W	493.81
J	1354.01	1241.00	00-31-31	S36-53-23W	1241.00
K	1344.01	268.09	11-25-43	S42-20-52W	267.54
L	1238.50	204.21	09-28-50	N42-04-20W	203.98
M	1238.50	204.21	09-28-50	N32-37-29W	203.98
N	1248.50	396.87	18-12-46	N37-14-20W	395.20
O	308.50	63.73	17-24-31	N46-43-17W	93.37
P	1248.50	152.34	08-59-28	N34-22-36W	152.24
Q	1248.50	162.34	07-27-00	N27-09-22W	162.23
R	318.50	85.84	15-27-37	N45-49-54W	85.58
S	1258.50	158.60	17-13-15	N34-25-29W	158.60
T	1258.50	182.62	07-24-13	N27-10-45W	182.51
U	1500.00	113.34	04-19-45	N30-31-47W	113.31
V	1500.00	180.84	05-54-40	N38-09-50W	180.83
W	1500.00	84.90	03-57-29	N41-25-03W	84.88
X	275.00	111.13	23-09-18	N88-42-18W	110.38
Y	1331.50	290.14	12-29-07	S88-38-42W	289.57
Z	1331.50	290.14	12-29-07	S81-07-49W	289.57

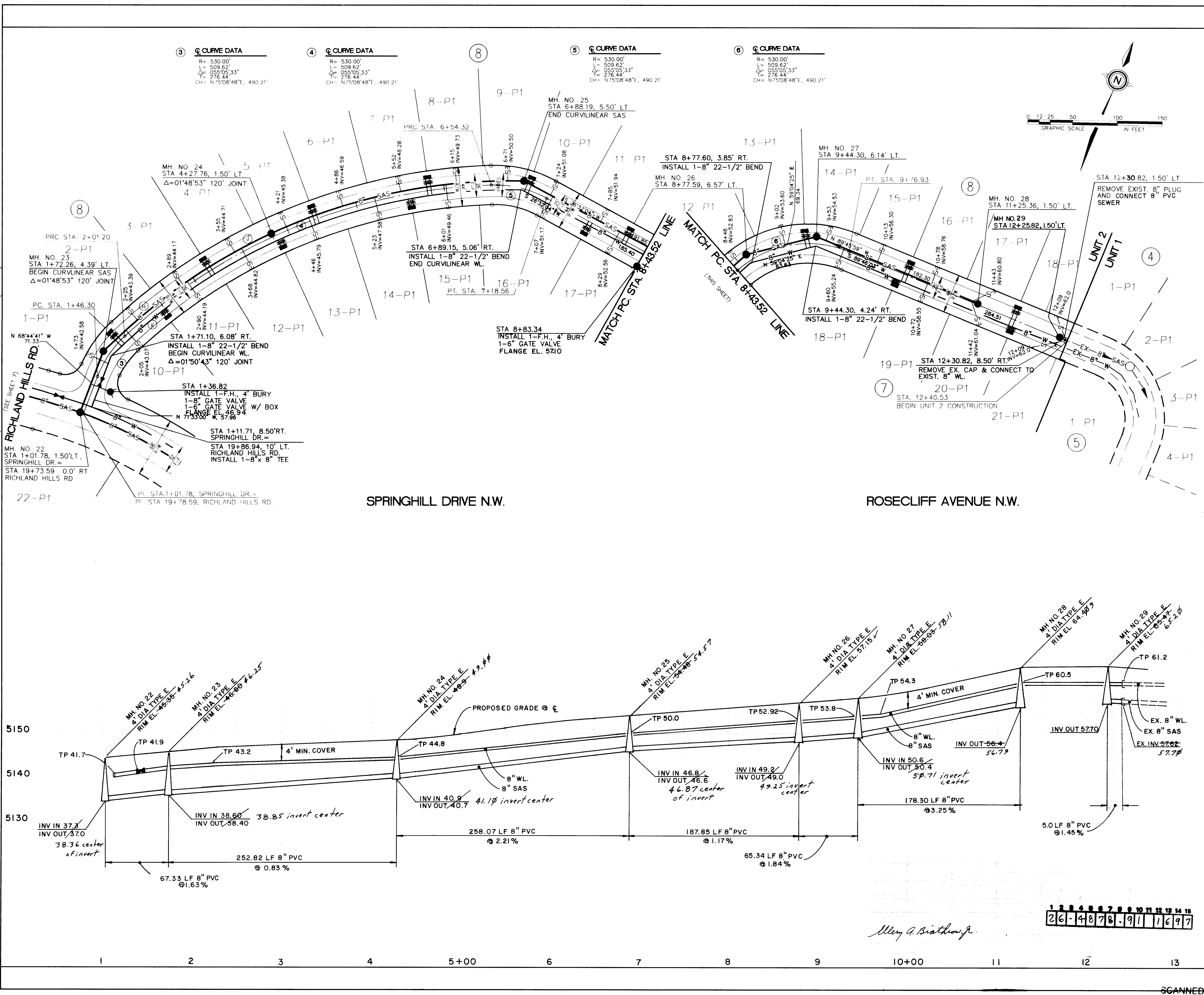
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CONTRACTOR	DATE
CONTRACTOR	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	DATE

ENGINEER'S SEAL	
BY	DATE
BY	DATE

REVISIONS	
NO.	DATE
NO.	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: RICHLAND HILLS- UNIT 2 UTILITY PLAN & PROFILE RICHLAND HILLS RD & SILVERCREST PL	
APPROVALS	ENGINEER
URCL CHAIRMAN	DATE
TRANSPORTATION	DATE
HYDROLOGY	DATE
NMUI	DATE
PROJECT NO.	MAP NO.



UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	SAS-8"	SAS-8"
ENCASEMENT		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION		
STORM DRAIN LINE	SD-30"	SD-30"
STORM DRAIN MANHOLE		
STORM DRAIN INLETS		
WATER LINE		
GATE VALVE		
BUTTERFLY VALVE		
FIRE HYDRANTS		
REDUCERS		
WATER SERVICE METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES		

AS BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

BENCH-MARK: ACS MONUMENT "3-B12" LOCATED ON AVA ROCK ESCARPMENT APPROXIMATELY 1/2 MILE SOUTHEAST OF THE INTERSECTION OF RADCLIFF ROAD N.W. AND PARADISE BOULEVARD N.W. ELEVATION 5277.26

SURVEY INFORMATION

FIELD NOTES	DATE

ENGINEER'S SEAL

Allen G. Brathwaite, Jr.
Professional Engineer
No. 11874
New Mexico

REVISIONS

NO.	DATE	REMARKS

UTILITY CURVE DATA (At C.L. of Pipes)

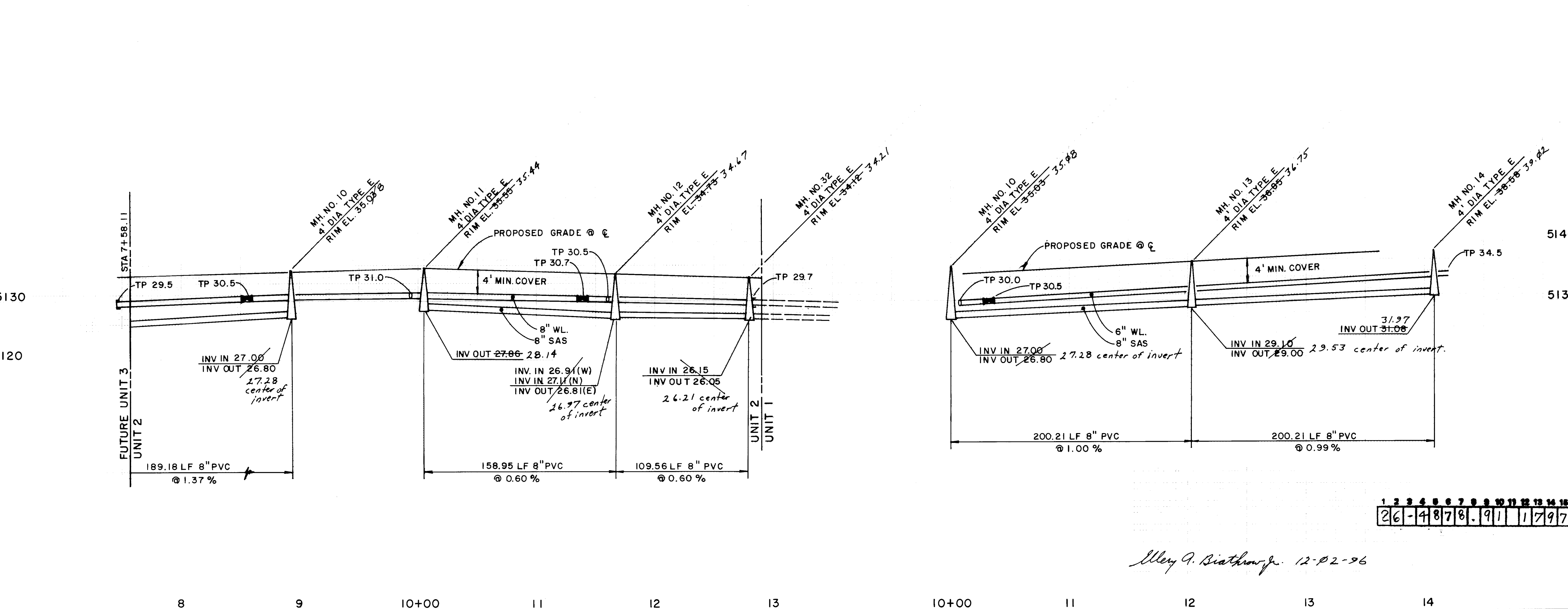
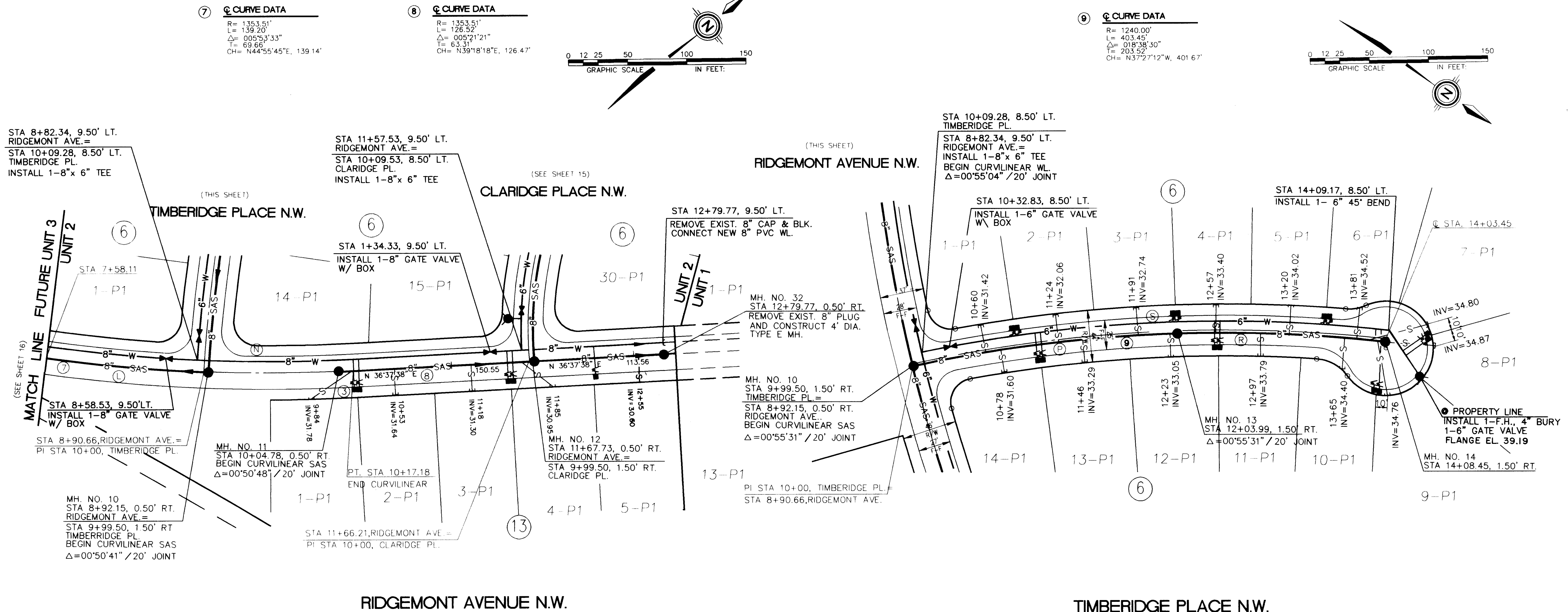
CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG	CHORD
A	470.00	195.76	23-51-52	S48-18-44W	194.35
B	470.00	174.83	21-18-48	S25-43-24W	173.83
C	480.00	293.30	32-47-44	S29-24-13W	259.72
E	540.00	269.14	28-33-25	N32-15-40E	266.36
F	358.50	250.64	40-03-25	N29-24-30W	245.56
G	368.50	241.79	37-36-38	N28-59-18W	237.47
H	631.50	250.82	23-18-04	N38-23-38W	255.05
J	631.50	262.07	23-46-39	N12-51-17W	260.19
K	621.00	507.85	48-51-21	N24-31-50W	493.81
L	1354.01	193.18	08-10-28	S46-00-28W	193.01
M	1354.01	12.41	00-31-31	S36-53-33W	12.41
N	1344.01	268.09	11-25-43	S42-20-29W	267.64
P	1238.50	204.21	09-26-50	N42-04-20W	203.98
R	1238.50	204.21	09-26-50	N32-37-28W	203.98
S	1248.50	396.87	18-12-48	N37-14-50W	396.20
T	306.50	93.73	17-24-31	N46-43-17W	93.37
U	1248.50	152.34	06-59-28	N34-22-36W	152.24
V	1248.50	162.34	07-27-00	N27-09-22W	162.23
X	318.50	85.94	15-27-37	N45-49-54W	85.58
Y	1258.50	158.60	17-13-15	N34-29-29W	158.60
Z	1258.50	162.62	07-24-13	N27-10-46W	162.51
AA	1500.00	113.34	04-19-45	N30-31-47W	113.31
BB	1500.00	180.94	08-54-40	N38-09-00W	180.83
CC	1500.00	94.90	03-37-29	N41-25-05W	94.88
DD	275.00	111.13	23-09-16	N66-42-18W	110.38
EE	1331.50	290.14	12-29-07	S68-38-42W	289.57
FF	1331.50	290.14	12-29-07	S81-07-43W	289.57

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

TITLE: RICHLAND HILLS- UNIT 1 UTILITY PLAN & PROFILE SPRINGHILL DR. & ROSECLIFF AVE. N.W.

APPROVALS	ENGINEER	DATE	ENGINEER	DATE
DRC CHAIRMAN	B.G. Brathwaite	8-8-94	DATE	N/A
TRANSPORTATION	N/A	7-26-94	DATE	N/A
HYDROLOGY	N/A	7-14-94	DATE	N/A
NMUI	N/A	7-23-94	DATE	N/A

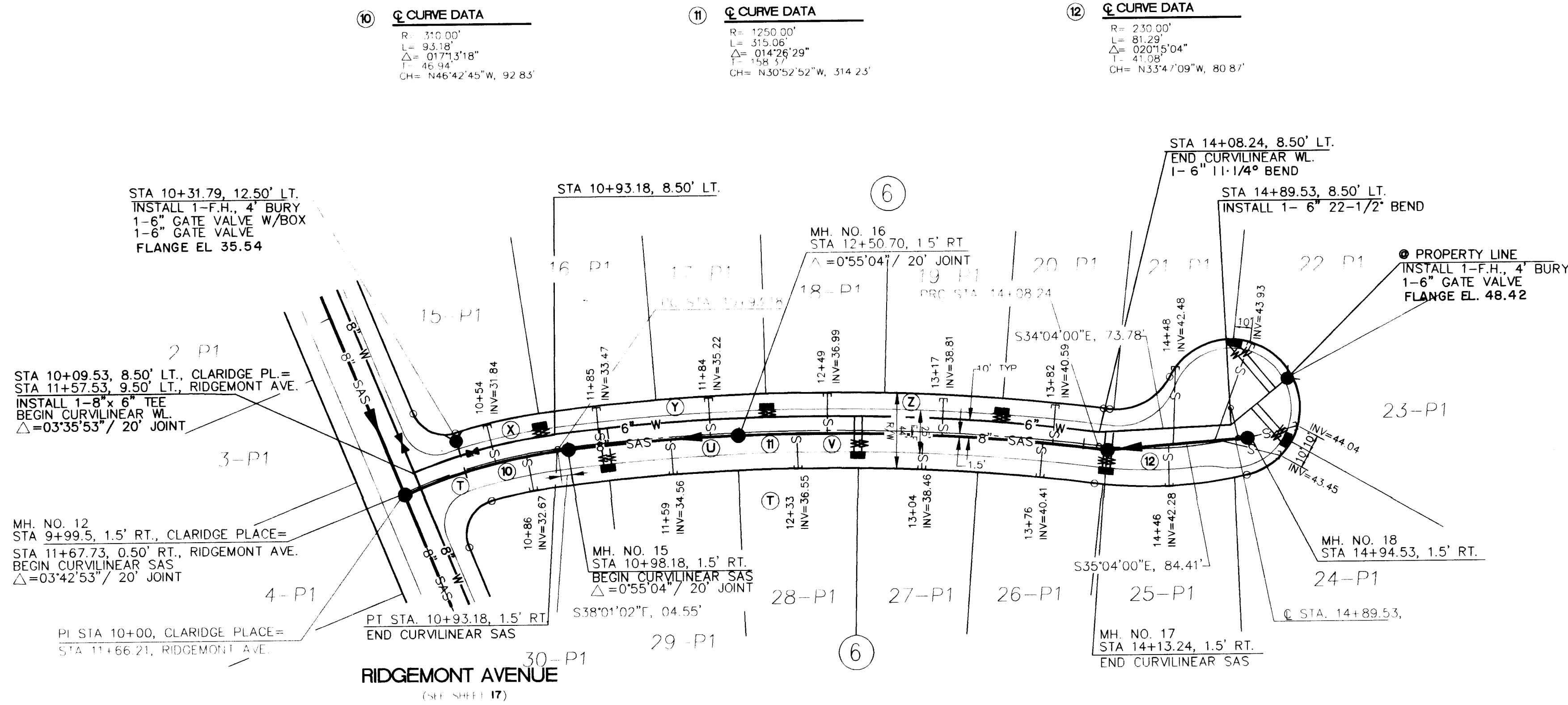
PROJECT NO. 4878.91 MAP NO. C-11 SHEET 16 OF 22



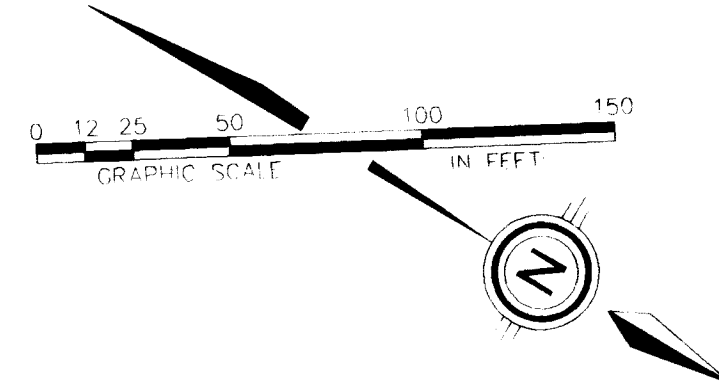
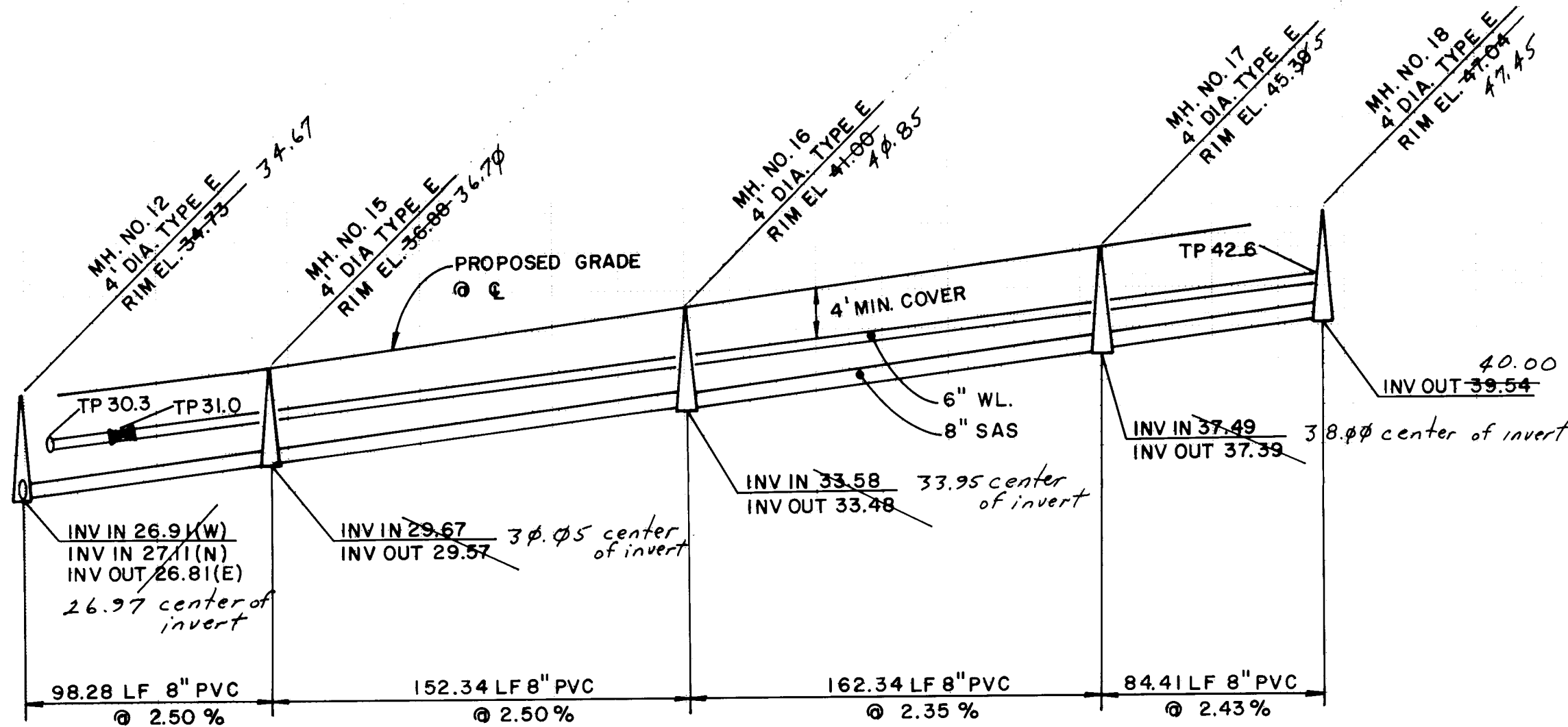
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	BENCHMARK	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.
CONTRACTOR	DATE	NO.	BENCHMARK	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.
CONTRACTOR	DATE	NO.	BENCHMARK	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		
TITLE: RICHLAND HILLS- UNIT 2 UTILITY PLAN & PROFILE RIDGEMOUNT AVE. & TIMBERIDGE PL.		
APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	DATE	DATE
TRANSPORTATION	DATE	DATE
HYDROLOGY	DATE	DATE
N.M.U.I.	DATE	DATE
PROJECT NO.	4878.91	NO. C-12
SHEET	17	22

5140
5130



CLARIDGE PLACE N.W.



UTILITY LEGEND		
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE		
ENCLOSURE		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION		
STORM DRAIN LINE		
STORM DRAIN MANHOLE		
WATER LINE		
GATE VALVE		
BUTTERFLY VALVE		
FIRE HYDRANTS		
REDUCERS		
WATER SERVICE/METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES		

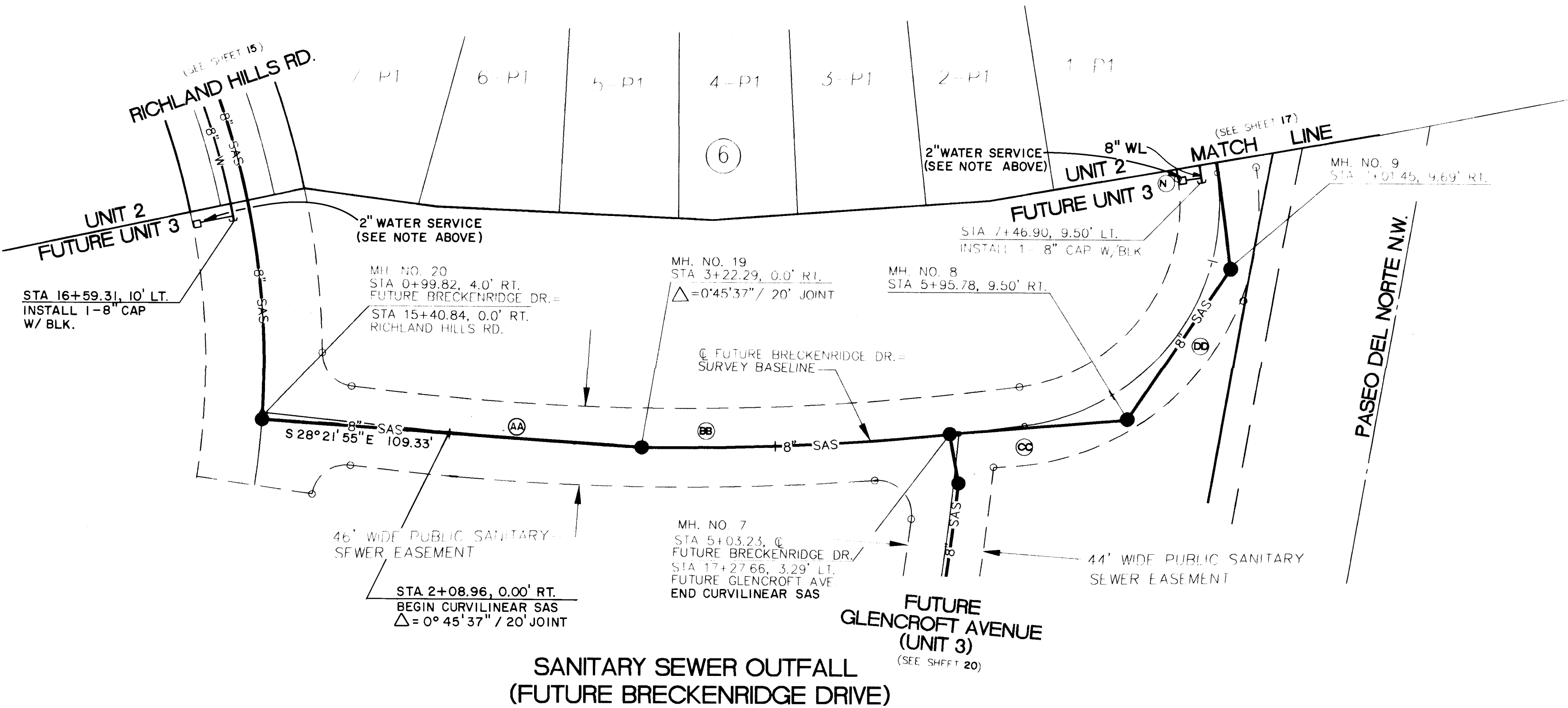
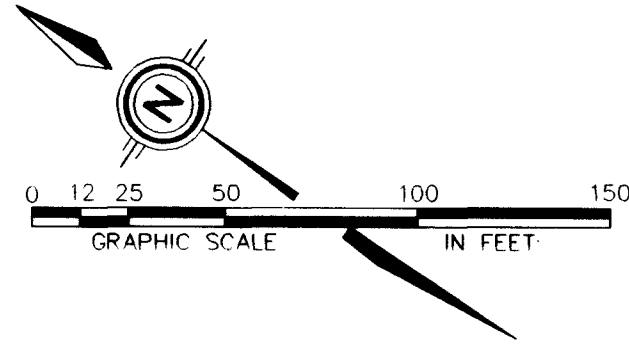
UTILITY CURVE DATA (At C.L. of Pipes)				
CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG
A	470.00	195.76	23-51-52	S48-18-44W 194.35
B	470.00	174.83	21-18-48	S25-43-24W 173.83
C	460.00	263.30	32-47-44	S29-24-15W 259.72
E	540.00	269.14	28-33-25	N32-15-40E 266.36
F	558.50	290.64	40-03-25	N29-24-30W 245.56
G	368.50	241.79	37-35-38	N28-59-18W 237.47
H	631.50	256.82	23-18-04	N36-23-38W 255.05
J	631.50	262.07	23-46-39	N42-51-17W 260.19
K	621.00	507.85	46-51-21	N24-31-50W 493.81
L	1354.01	193.18	08-10-28	S46-00-26W 193.01
M	1354.01	12.41	00-31-31	S36-53-23W 12.41
N	1344.01	268.09	11-26-43	S42-20-29W 267.64
P	1238.50	214.21	09-26-50	N42-04-20W 203.98
R	1238.50	204.21	09-26-50	N32-37-29W 203.98
S	1248.50	396.87	18-12-46	N37-14-20W 395.20
T	308.50	93.73	17-24-31	N46-49-17W 93.37
U	1248.50	152.34	06-59-28	N34-22-36W 152.24
V	1248.50	162.34	07-27-00	N27-09-22W 162.23
X	318.50	85.94	15-27-37	N45-49-54W 85.68
Y	1258.50	158.60	17-13-15	N34-29-29W 158.50
Z	1258.50	162.02	07-24-13	N27-10-48W 162.51
AA	1500.00	113.34	04-19-45	N30-31-47W 113.31
BB	1500.00	180.94	06-54-40	N36-09-00W 180.83
CC	1500.00	94.90	03-37-29	N41-25-05W 94.88
DD	275.00	111.13	23-06-16	N86-40-18W 110.38
EE	1331.50	290.14	12-29-07	S68-38-42W 289.57
FF	1331.50	290.14	12-29-07	S81-07-49W 289.57

SCALE:
1" = 50' HORIZ.
1" = 10' VERT.

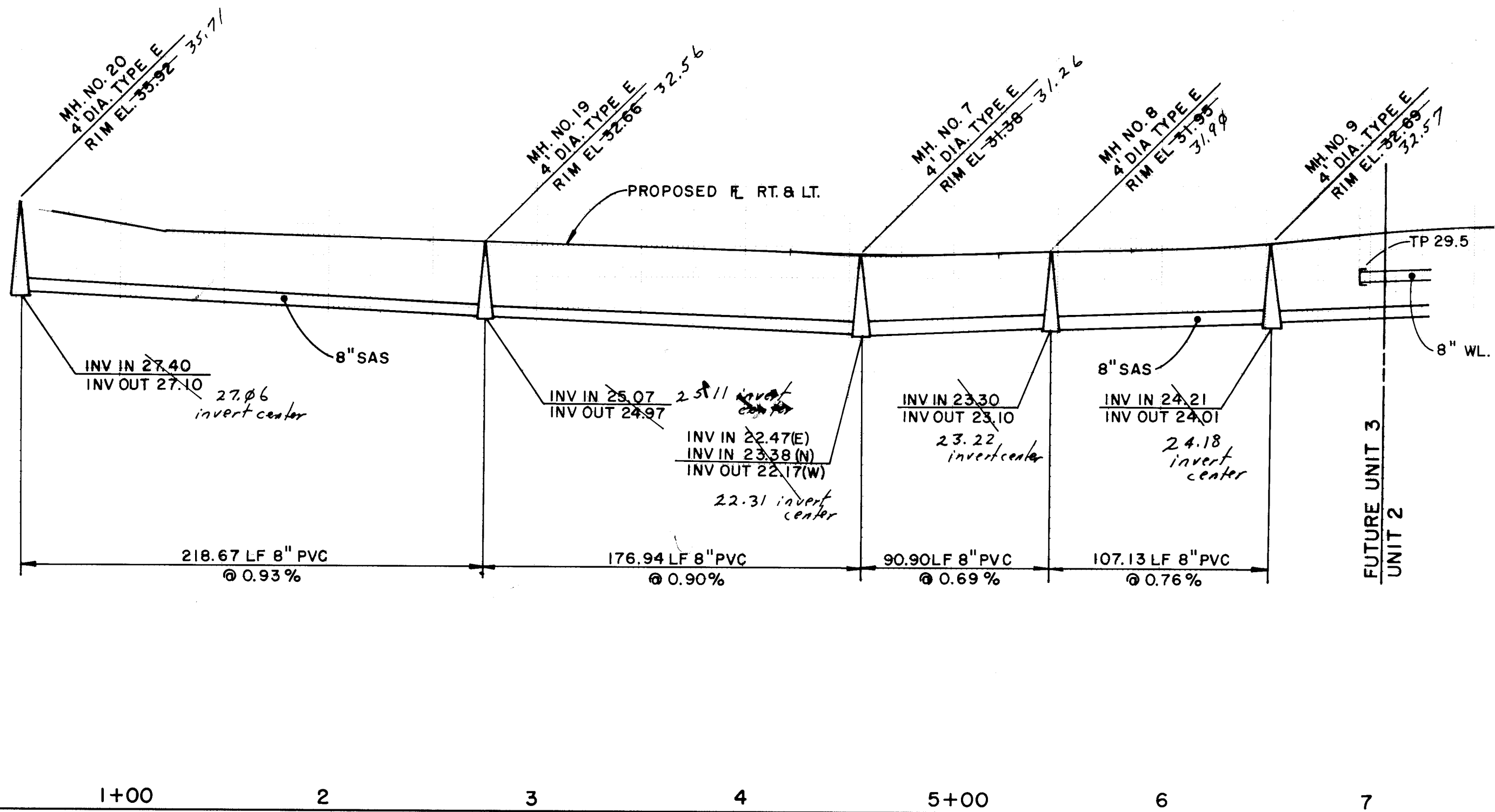
community
sciences
corporation

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: RICHLAND HILLS- UNIT 2 UTILITY PLAN & PROFILE CLARIDGE PLACE			
APPROVALS	ENGINEER	DATE	APPROVED
DRG. CHAIRMAN	8-8-94	8-8-94	WATER
TRANSPORTATION	7-26-94	7-26-94	WASTE WATER
HYDROLOGY	7-16-94	7-16-94	A.M.A.P.C.A.
N.M.U.I.	7-23-94	7-23-94	
PROJECT NO.	4878.91	MAP NO.	C-12
			18 22

NOTE: 2" WATER SERVICE TO BE DELETED IF PHASE 3 IS STARTED BEFORE CONSTRUCTION OF PHASE 2 IS COMPLETED



5240
5230
5220



UTILITY LEGEND		
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION		
STORM DRAIN LINE		
STORM DRAIN MANHOLE		
STORM DRAIN VALETS		
WATER LINE		
GATE VALVE		
BUTTERFLY VALVE		
REDUCERS		
WATER SERVICE/ METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES		

UTILITY CURVE DATA
(At C.L. of Pipes)

CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG	CHORD
A	470.00	195.76	23-51-52	S48-18-44W	194.35
B	470.00	174.83	21-18-48	S25-43-24W	173.83
C	460.00	263.30	32-47-44	S29-24-13W	259.72
E	440.00	289.14	28-33-25	N32-15-40E	265.36
F	358.50	250.84	42-03-25	N29-24-30W	245.58
G	368.50	241.79	37-35-38	N28-59-18W	237.47
H	631.50	256.82	23-18-04	N35-23-38W	255.05
J	631.50	262.07	23-48-39	N12-51-17W	250.19
K	621.00	507.65	46-51-21	N24-31-50W	493.81
L	1354.01	193.18	08-10-28	S46-00-26W	193.01
M	1354.01	12.41	00-31-31	S36-53-23W	12.41
N	1344.01	268.09	11-28-43	S42-20-29W	267.64
P	1238.50	204.21	09-28-50	N42-04-20W	203.98
R	1238.50	204.21	09-28-50	N32-37-29W	203.98
S	1248.50	396.87	18-12-46	N37-14-20W	395.20
T	308.50	93.73	17-24-31	N46-49-17W	93.37
U	1248.50	152.34	06-59-28	N34-22-36W	152.24
V	1248.50	182.34	07-27-00	N27-09-22W	182.23
X	318.50	85.94	15-27-37	N45-49-54W	85.68
Y	1238.50	158.60	17-19-15	N34-29-29W	158.60
Z	1238.50	162.62	07-24-13	N27-10-46W	162.51
AA	1500.00	113.34	04-19-45	N30-31-47W	113.31
BB	1500.00	180.94	06-54-40	N36-09-00W	180.83
CC	1500.00	94.90	03-57-28	N41-25-05W	94.88
DD	273.00	111.13	23-09-18	N36-42-18W	110.38
EE	1331.50	290.14	12-29-07	S68-38-42W	289.37
FF	1331.50	290.14	12-29-07	S81-07-45W	289.37

SCALE:
1" = 50' HORIZ.
1" = 10' VERT.

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corporation

JOB NO. 14319-056	LAND PLANNING P.O. Box 1326	ENGINEERING Corrales, N.M. 87048	SURVEYING Corrales, N.M. 87048
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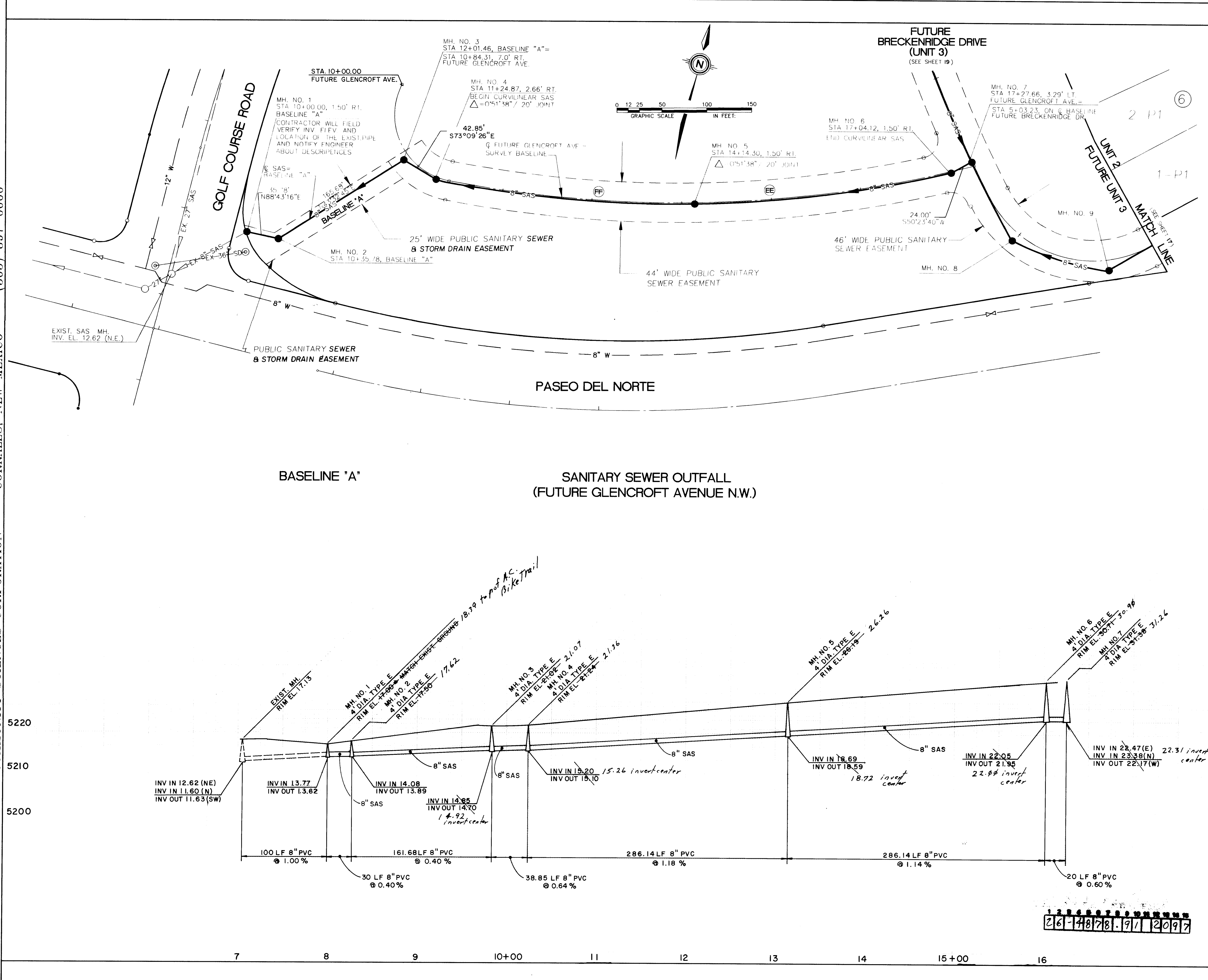
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RICHLAND HILLS- UNIT 2
OFFSITE SANITARY SEWER OUTFALL PLAN & PROFILE
(FUTURE BRECKENRIDGE DRIVE)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
APPROVALS	B.G. Boudry	8-8-94	APPROVALS	N/A	7-14-94
COORDINATION	W. J. J. J.	7-26-94	COORDINATION	N/A	7-14-94
REVISIONS	W. J. J. J.	7-14-94	REVISIONS	N/A	7-14-94
INQUIRY	W. J. J. J.	7-14-94	INQUIRY	N/A	7-14-94

PROJECT NO. 4878.91 C-12 19 22

SCANNED BY
PERSON



UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	S-8"	S-8"
ENCASEMENT		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION		
STORM DRAIN LINE	SD-30"	SD-30"
STORM DRAIN MANHOLE		
WATER LINE		
GATE VALVE		
BUTTERFLY VALVE		
FIRE HYDRANTS		
REDUCERS		
WATER SERVICE: METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES	N/A	

UTILITY CURVE DATA
(At C.L. of Pipes)

CURVE IDEN	RADIUS	ARC	DELTA	CHORD BRG	CHORD
A	470.00	195.76	23-51-52	S48-18-44W	194.35
B	470.00	174.83	21-18-48	S25-43-24W	173.83
C	460.00	263.30	32-47-44	S29-24-13W	259.72
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G	368.50	241.79	37-35-38	N28-59-18W	237.47
H	631.50	256.82	23-18-04	N36-23-38W	255.05
J	631.50	262.07	23-46-39	N12-51-17W	260.19
K	621.00	507.85	48-51-21	N24-31-50W	493.81
L	1354.01	193.18	08-10-28	S46-00-26W	193.01
M	1354.01	12.41	00-31-31	S36-53-23W	12.41
N	1344.01	268.09	11-25-43	S42-20-29W	267.64
P	1238.50	204.21	09-26-50	N42-04-20W	203.98
R	1238.50	204.21	09-26-50	N32-37-29W	203.98
S	1248.50	396.87	18-12-46	N37-14-20W	395.20
T	308.50	93.73	17-24-31	N46-43-17W	93.37
U	1248.50	152.34	06-59-28	N34-22-38W	152.24
V	1248.50	162.34	07-27-00	N27-09-22W	162.23
X	318.50	85.94	15-27-37	N45-49-54W	85.68
Y	1258.50	158.60	17-13-15	N34-29-29W	158.60
Z	1258.50	162.62	07-24-13	N27-10-48W	162.51
AA	1500.00	113.34	04-19-45	N30-31-47W	113.31
BB	1500.00	180.94	06-54-40	N36-09-00W	180.83
CC	1500.00	94.90	03-37-29	N41-25-05W	94.88
DD	275.00	111.13	23-09-16	N66-42-18W	110.38
EE	1331.50	290.14	12-29-07	S68-38-42W	289.57
FF	1331.50	290.14	12-29-07	S81-07-49W	289.57

SCALE:
1" = 50' HORIZ.
1" = 10' VERT.

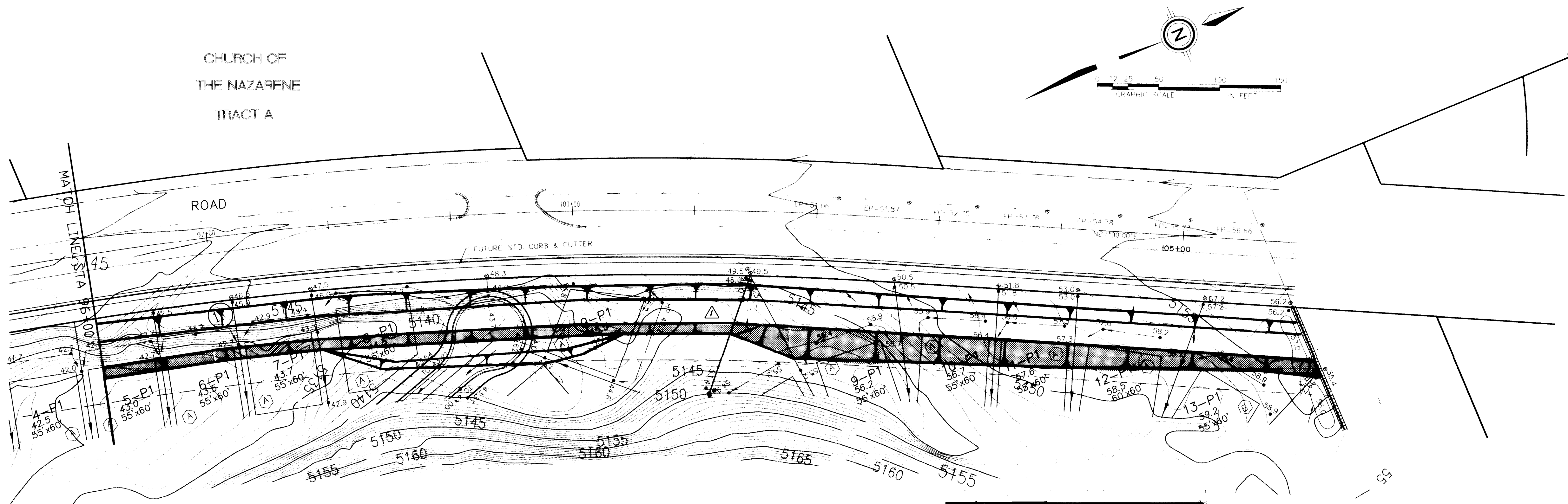


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RICHLAND MILLS- UNIT 2
OFFSITE SANITARY SEWER OUTFALL PLAN & PROFILE
(FUTURE GLENCROFT AVENUE N.W.)

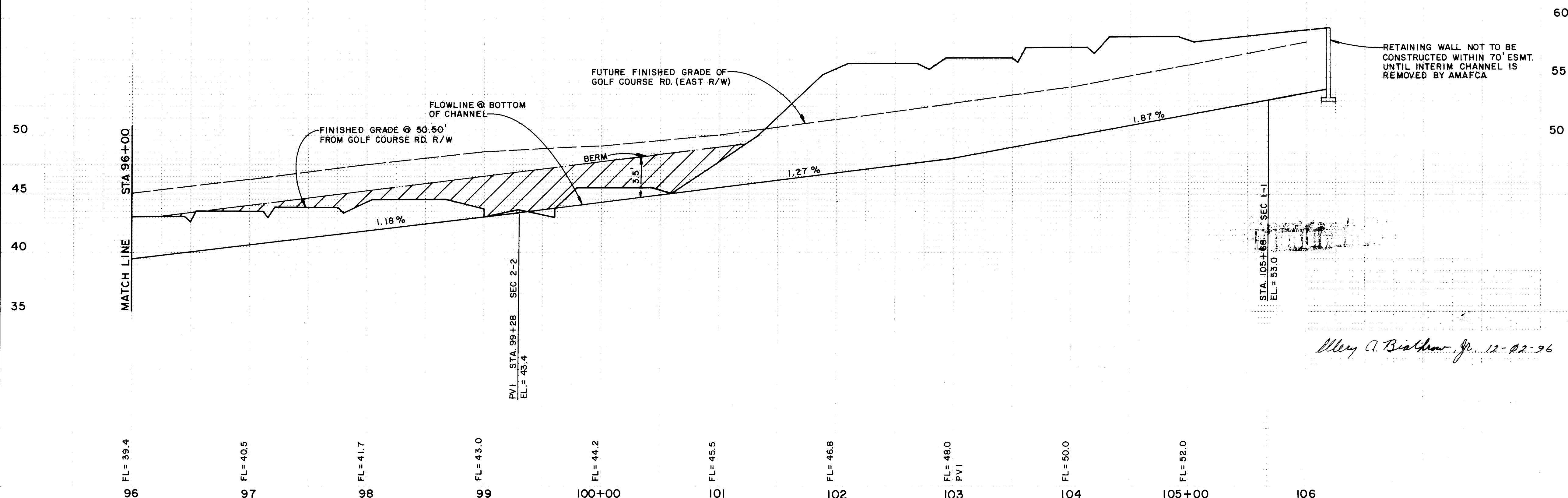
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG. CHAIRMAN	B.G. Bailey	8-8-94	WATER	N/A	RWL 7-14-94
TRANSPORTATION	N.H. Ritten	7-26-94	WASTE WATER	N/A	RWL 7-14-94
HYDROLOGY	N.H. Ritten	7-14-94	A.M.A.F.C.A.		
M.M.U.I.	N.H. Ritten	7-28-94			

PROJECT NO. 4878.91
SHEET NO. C-12
SHEET 20 OF 22



6 MIL PLASTIC EROSION CONTROL SHEETING SEE DETAIL 'A' SHT. 21

NOTE: THIS INTERIM CHANNEL AND GRADING PLAN MODIFIES THE CURRENTLY MAPPED FEMA FLOODPLAIN. THE CHANNEL AND EASEMENT WILL NOT CONTAIN THE MODIFIED FLOODPLAIN AND LOTS 8 THROUGH 13, BLOCK 8, AND ALL LOTS IN BLOCKS 9, 10, 11, AND 12 ARE SUBJECT TO FLOODING UNTIL SUCH TIME AS AMAFCA COMPLETES THE CONSTRUCTION OF THE GOLF COURSE ROAD/PIEDRAS MARCADAS STORM SEWER. AT THAT TIME, AMAFCA WILL BE RESPONSIBLE FOR COMPLETING THE GRADING AS INDICATED ON THE SUBDIVISION GRADING PLANS AND FOR DOCUMENTING THE ADEQUACY OF THEIR DRAINAGE IMPROVEMENTS TO FEMA SUCH THAT ALL OF THE LOTS IN THIS SUBDIVISION ARE REMOVED FROM THE FLOODPLAIN.



W. A. Blatner Jr. 12-02-96

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

community sciences corporation

143130-605

LAND PLANNING ENGINEERING SURVEYING
P.O. Box 1328 Corrales, N.M. 87058

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RICHLAND HILLS- UNIT 2
PIEDRAS MARCADAS MAIN BRANCH
INTERIM LOW FLOW DRAINAGE CHANNEL

APPROVALS: [Signatures] DATE: 8-8-94
DR. CHAIRMAN: [Signature] DATE: 7-26-94
TRANSPORTATION: [Signature] DATE: 7-14-94
HYDROLOGY: [Signature] DATE: 7-14-94

PROJECT NO. 4878.91 MAP NO. C-12 SHEET 22 OF 22

SCANNED BY
BY LASON

AS BUILT INFORMATION			
DATE	BY	DATE	BY

BENCH MARKS			
DATE	BY	DATE	BY

SURVEY INFORMATION			
NO.	BY	DATE	

ENGINEER'S SEAL
[Seal and Signature]

REVISIONS			
NO.	DATE	BY	REMARKS

DESIGN			
DESIGNED BY	DATE	APPROVED BY	DATE