

CONSTRUCTION PLANS
FOR
SEVEN BAR NORTH SUBDIVISION
TRACT B-6

ALBUQUERQUE, NEW MEXICO

INDEX

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	PLAT
3	GRADING PLAN
4	GRADING DETAILS
5	OVERALL PAVING PLAN
	PAVING PLAN AND PROFILE
6	SEVEN BAR LOOP ROAD
7	NOCHE CLARA AVENUE
8	SULLIVAN COURT
9	STELLER COURT
10	CASCADE AZUL PLACE
11	WESTSIDE BLVD. STA. 16+71.30 TO 27+30.00
12	OVERALL UTILITY PLAN
	UTILITY PLAN AND PROFILE
13	SEVEN BAR LOOP ROAD
14	NOCHE CLARA AVENUE
15	SULLIVAN COURT
16	STELLER COURT
17	CASCADE AZUL PLACE
18	WESTSIDE BLVD.
	STORM DRAIN PLAN AND PROFILE
19	SEVEN BAR LOOP ROAD
20	WESTSIDE BLVD. / NOCHE CLARA AVE.

SURVEYOR'S CERTIFICATION

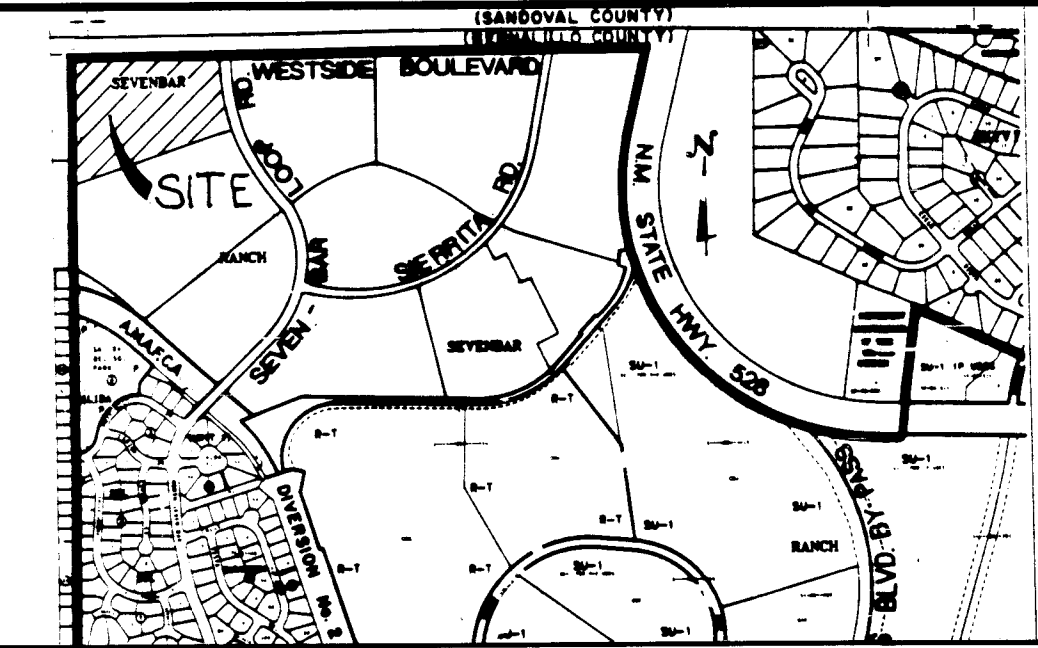
"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, P.E., No. 7719

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 11-13-98

DRB #94-457 BHI JOB NO. 93217A2440

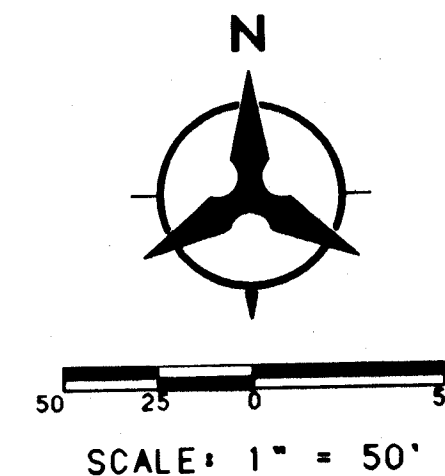
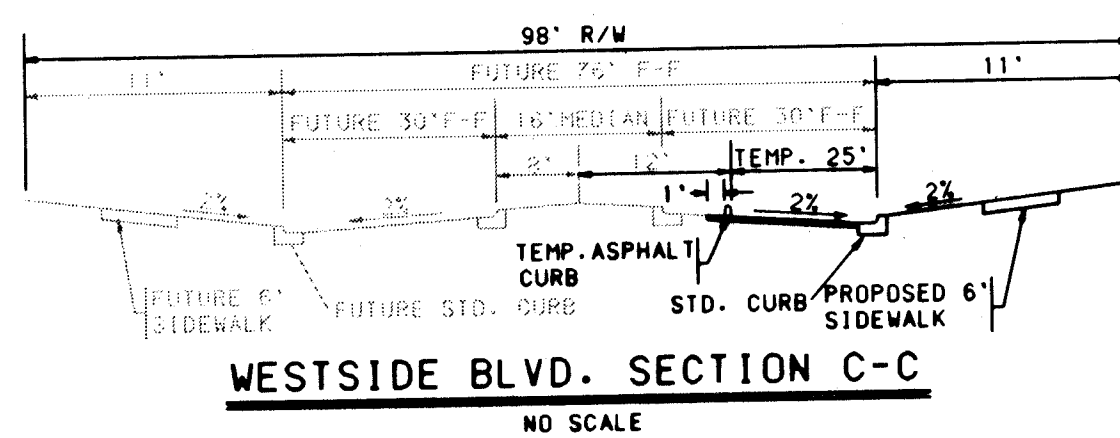
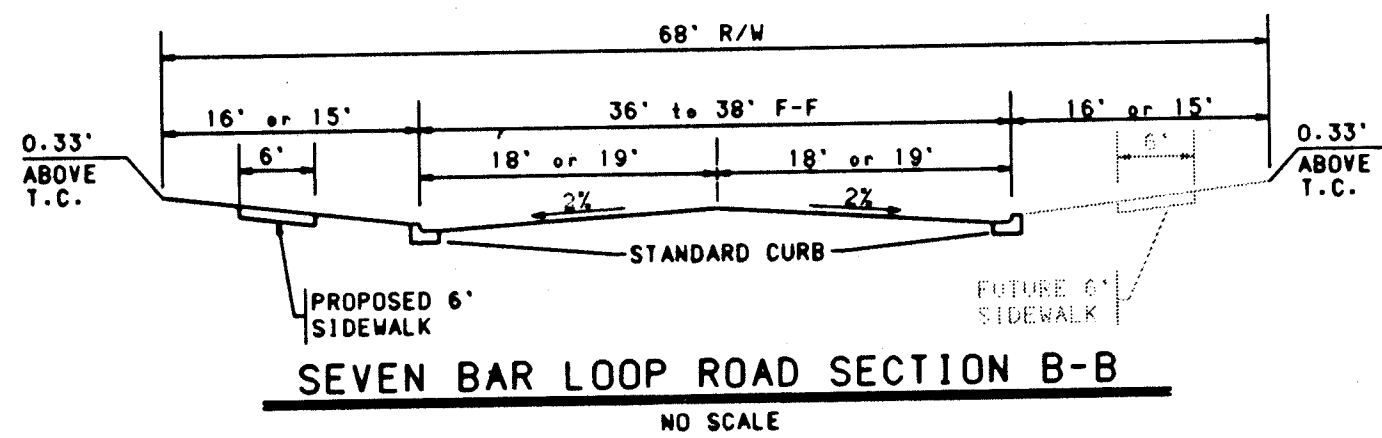
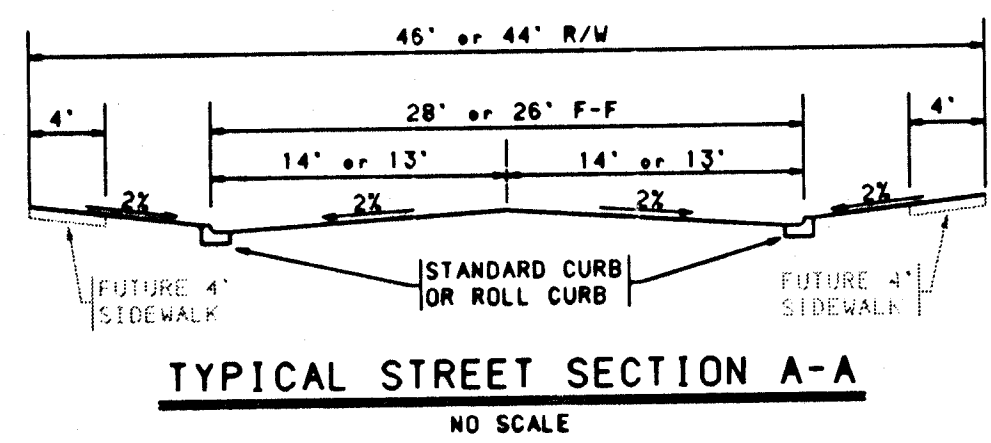
BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE



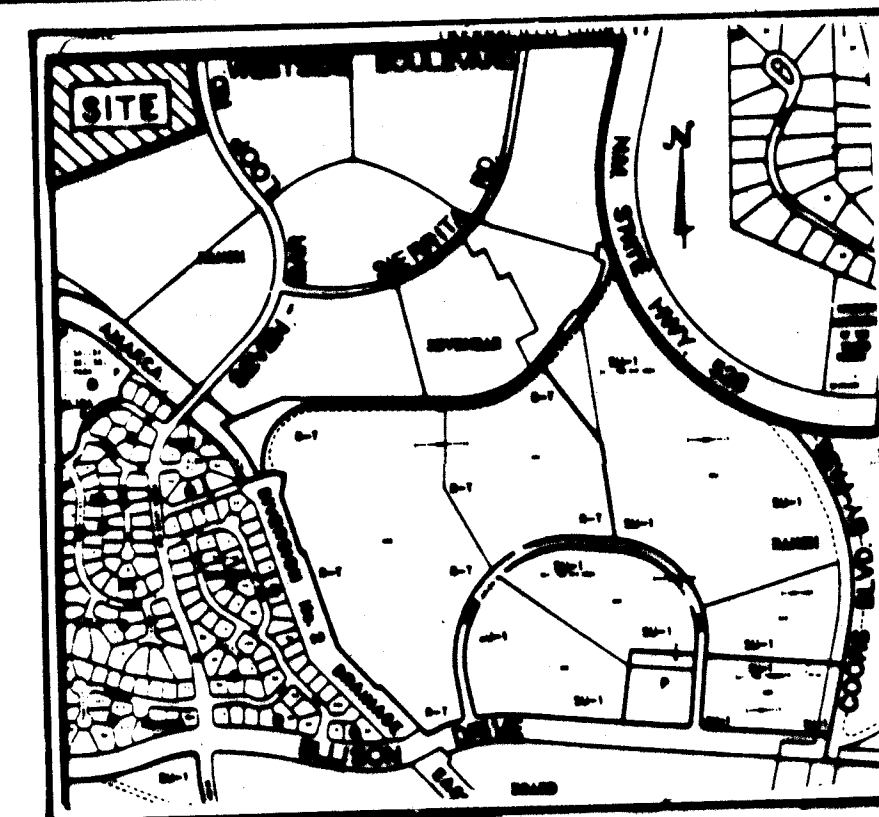
VICINITY MAP A-13
NOT TO SCALE

- NOTICE TO CONTRACTORS
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988 EDITION AND SHALL INCLUDE UPDATE No. 6.
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
 - 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 ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
 - CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
 - ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 - ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS).
 - THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES, (898-2661) THREE WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
 - CONTRACTOR SHALL MAINTAIN GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY. THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ 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 DEEPENED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

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SPOT ELEVATIONS CONTAINING AN "R" DENOTES MOUNTABLE ROLL TYPE CURB. 10 xx.xR



RESEED ALL DISTURBED AREAS WITH NATIVE GRASS AND STRAW AS PER COA STD. SPEC. 1012

LEGAL DESCRIPTION

ESTRELLA DEL NORTE
AT SEVEN BAR NORTH
TRACT B-6A

NOTE:
FOR GRADING DETAILS
SEE SHEET 4 OF 20

APPROVED FOR ROUGH GRADING (1:1)

Hydrology Engineer: *[Signature]* 12-28-97
DATE

DRAINAGE CERTIFICATION

JOHN C. ALEXANDER, of BOHANNAN-HUSTON INC., ENGINEERS - PLANNERS - PHOTOGRAMMETRISTS - SURVEYORS - LANDSCAPE ARCHITECTS, ALBUQUERQUE, LAS CRUCES, SANTA FE, hereby certifies that the AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY ALDRICH LAND SURVEYING, INC., L.S. # 7719. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

John C. Alexander
NAME
11-4-98
DATE

JOHN C. ALEXANDER
NEW MEXICO
11-4-98
PROFESSIONAL ENGINEER

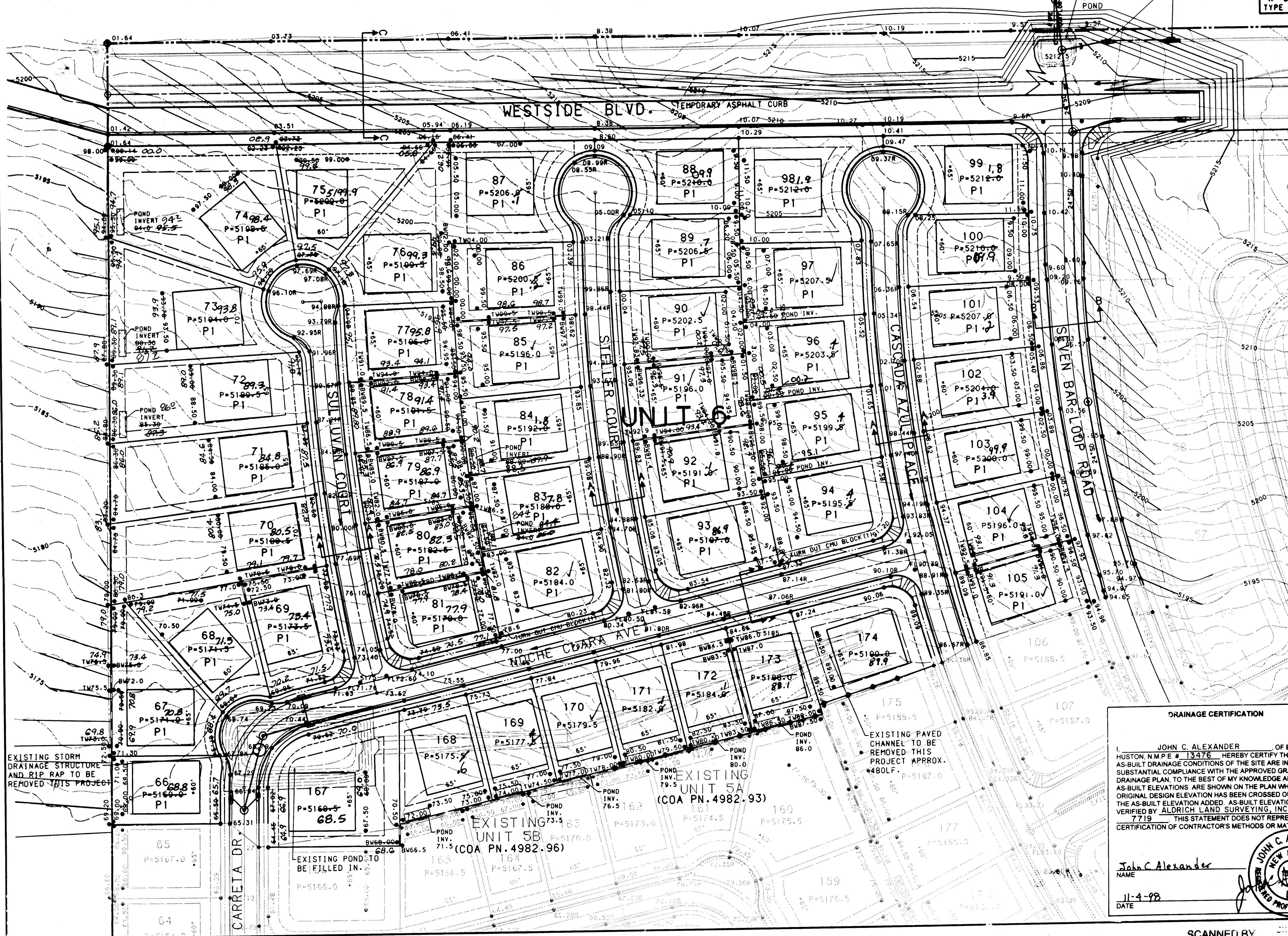
BOHANNAN-HUSTON INC.
ENGINEERS - PLANNERS - PHOTOGRAMMETRISTS - SURVEYORS - LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

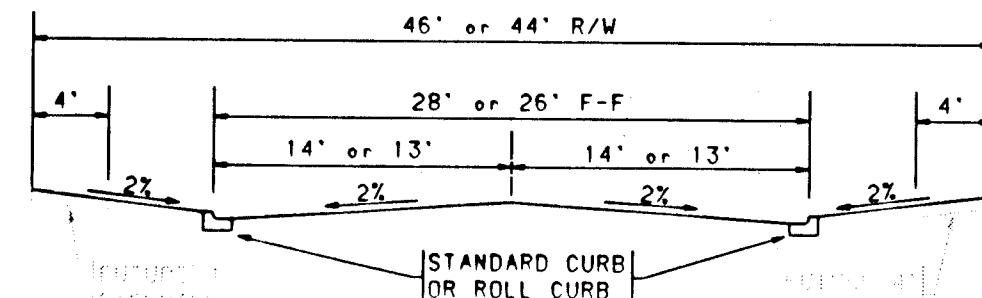
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
GRADING PLAN

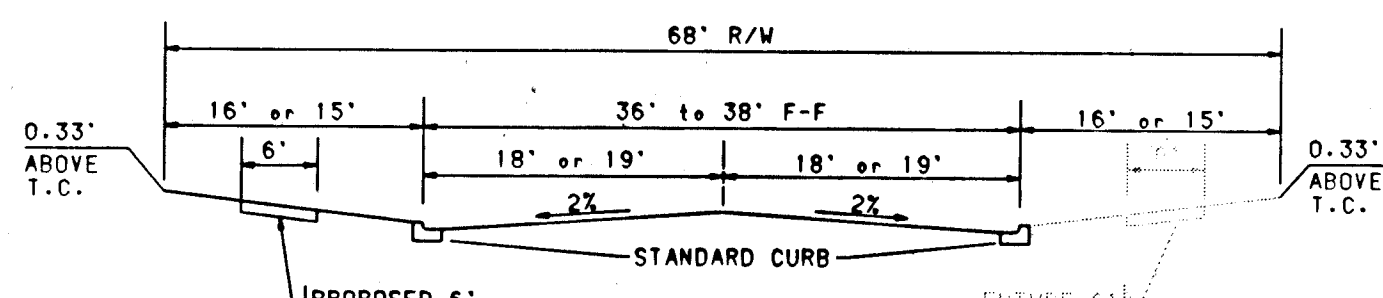
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO/DAY/YR	MO/DAY/YR
APPROVED BY	DATE	LAST DESIGN UPDATE	
DRB			

CITY PROJECT NO. 4982.99 ZONE MAP NO. A-13 SHEET 3 OF 20

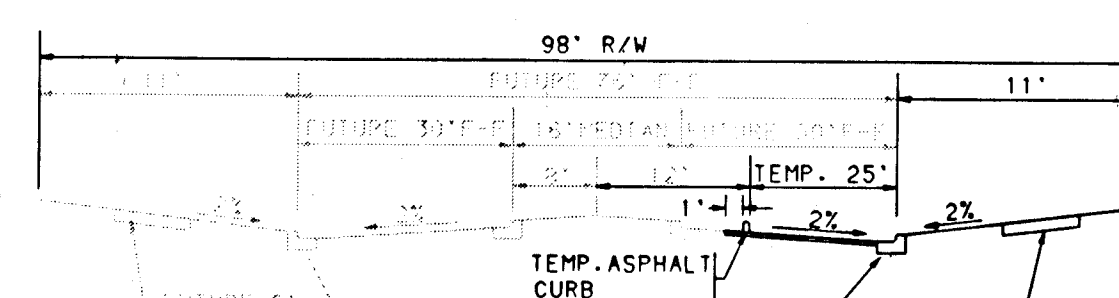




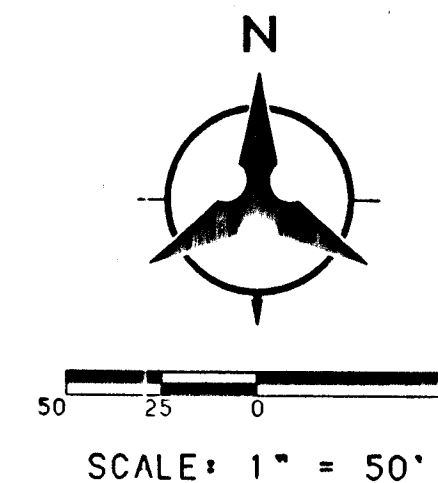
TYPICAL STREET SECTION A-A
NO SCALE



SEVEN BAR LOOP ROAD SECTION B-B
NO SCALE

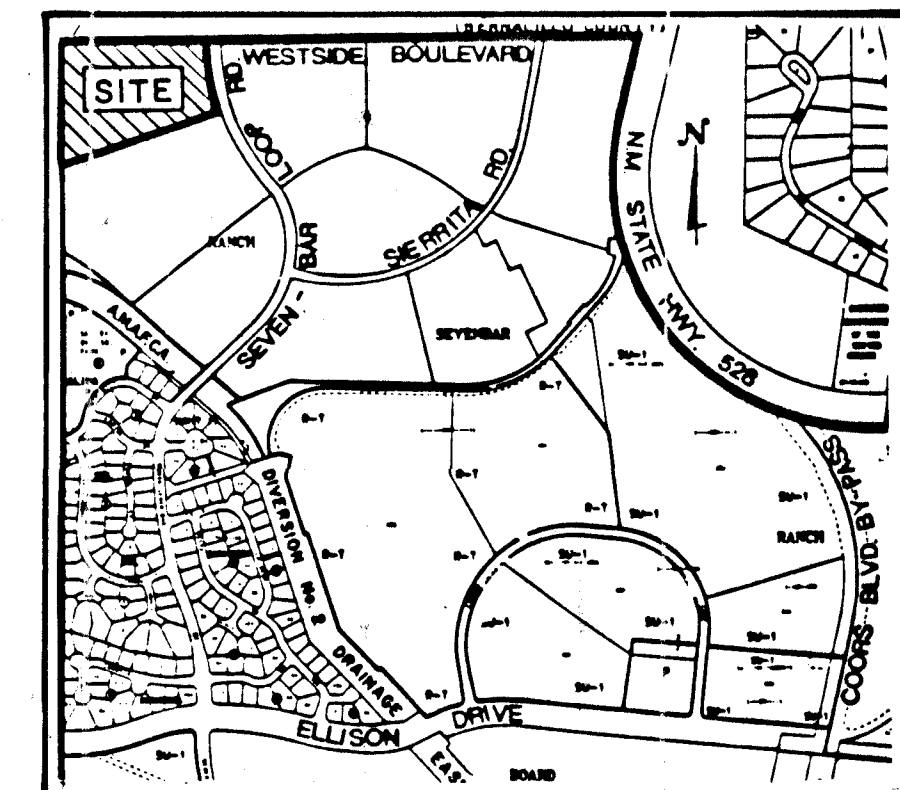


WESTSIDE BLVD. SECTION C-C
NO SCALE



SCALE: 1" = 50'

SPOT ELEVATIONS CONTAINING AN "R" DENOTES MOUNTABLE ROLL TYPE CURB, i.e. **.*R



VICINITY MAP
NO SCALE A-13-Z

RESEED ALL DISTURBED AREAS WITH NATIVE GRASS AND STRAW AS PER COA STD. SPEC. 1012

LEGAL DESCRIPTION
ESTRELLA DEL NORTE
AT SEVEN BAR NORTH
TRACT B-6A

NOTE:
FOR GRADING DETAILS
SEE SHEET 4 OF 20

DRAINAGE CERTIFICATION

I, BOHANNAN-HUSTON INC. OF BOHANNAN-HUSTON, N.M.P.E. # 10-28-97, HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY BOHANNAN-HUSTON INC. L.S. # 10-28-97.

THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

NAME _____
DATE _____

APPROVED FOR ROUGH GRADING (± 1")
Bohannan-Huston Inc. ENGINEER
DATE 10-28-97

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

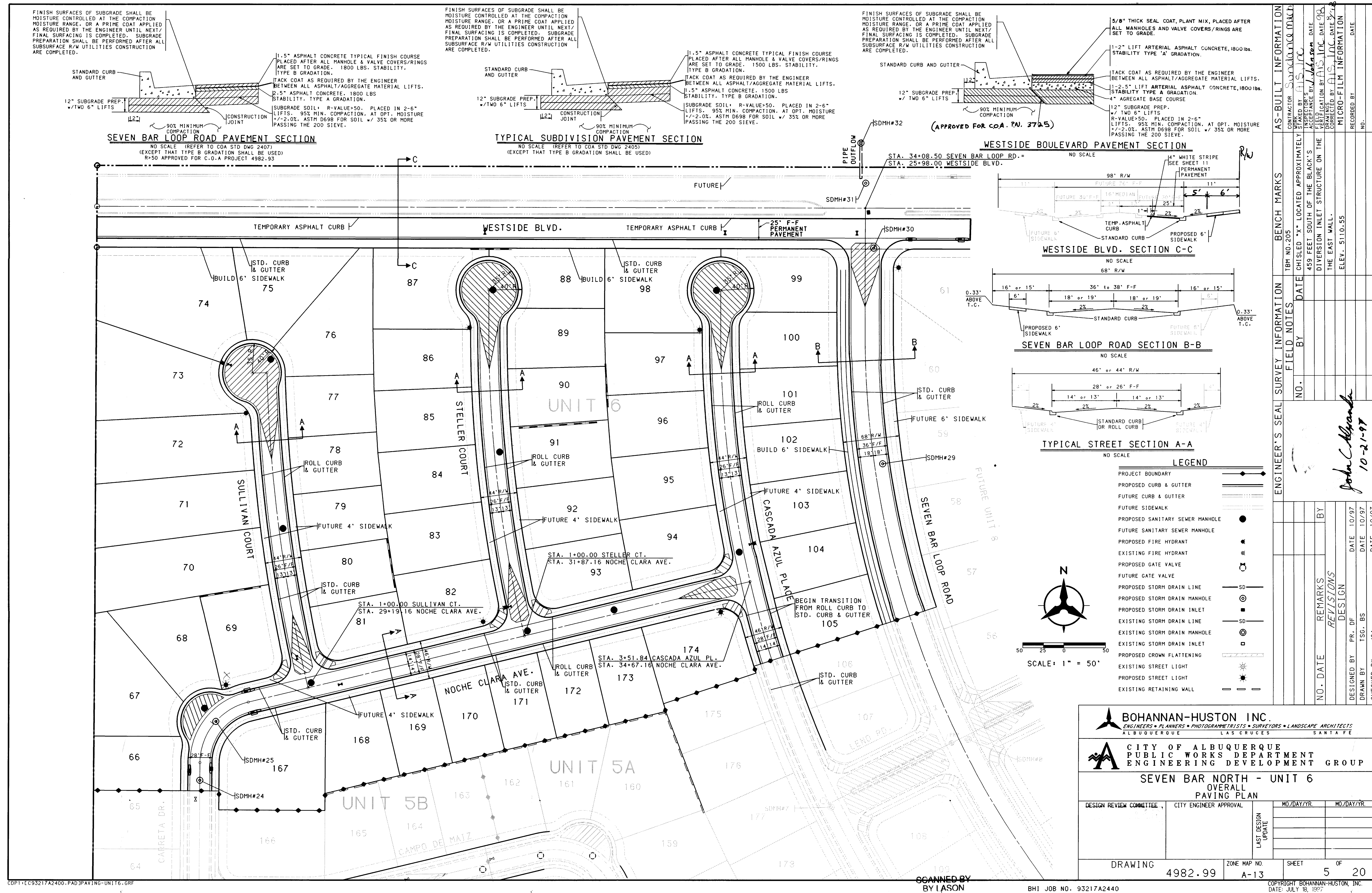
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

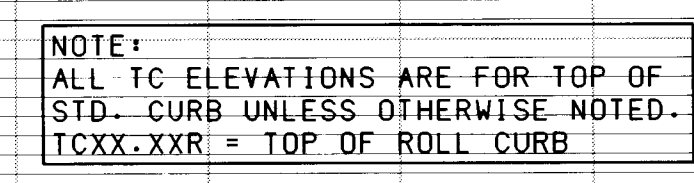
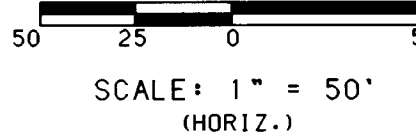
SEVEN BAR NORTH - UNIT 6
GRADING PLAN

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL
APPROVED BY DRB DATE _____
CITY PROJECT NO. 4982.99 ZONE MAP NO. A-13 SHEET 3A OF 20

AS-BUILT INFORMATION		BENCH MARKS		FIELD NOTES		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CONTRACTOR: <u>Bohannan-Huston Inc.</u>	INSPECTOR'S: <u>Bohannan-Huston Inc.</u>	CHISEL "X" LOCATED APPROXIMATELY 459 FEET SOUTH OF THE BLACK'S DIVERSION INLET STRUCTURE ON THE EAST WALL.	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>
VERIFICATION BY: <u>Bohannan-Huston Inc.</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>	DATE: <u>10-28-97</u>
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FOR INFORMATION ONLY





CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S00°06'51"W	149.00'

- KEYED GENERAL NOTES

1. INSTALL CONCRETE VALLEY GUTTER
AS PER STD. DWG. 2420
 2. INSTALL WHEEL CHAIR RAMP
AS PER STD. DWG. 2441, CASE 1
 3. INSTALL WHEEL CHAIR RAMP
AS PER STD. DWG. 2441, CASE 1
 4. STD. CURB & GUTTER
AS PER STD. DWG. 2415
 5. ROLL CURB & GUTTER
AS PER STD. DWG. 2415
 6. MEDIAN CURB & GUTTER
AS PER STD. DWG. 2415
 7. FUTURE 4' SIDEWALK
 8. BUILD 4' SIDEWALK
 9. BUILD 6' SIDEWALK
 10. FUTURE 6' SIDEWALK
- NOT APPLICABLE THIS SHEET



BOHANNAN-HUSTON INC.

ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS

ALBUQUERQUE LAS CRUCES SANTA FE



CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6

PAVING PLAN & PROFILE

SEVEN BAR LOOP ROAD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
		LAST DESIGN UPDATE		

CITY PROJECT NO. 4982.99

ZONE MAP NO. A-13

SHEET 6 OF 20

INSTALL CONCRETE VALLEY GUTTER
AS PER STD. DWG. 2421

67 NO CROWN

THIS PROJECT

PC 27+45.08

66

STA. 27+11.27

27+00

EXISTING
COA 4982-96

65

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N00°17'07"E	33.80'
T2	S76°32'22"W	74.27'
T3	S76°32'22"W	268.00'
T4	S76°32'22"W	280.00'

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

2. ALL CURB RETURN RADII SHALL BE
25' TO FACE OF CURB UNLESS
OTHERWISE SPECIFIED.

3. ALL CURVE DATA AND DIMENSION
REFER TO FACE OF CURB UNLES
OTHERWISE SPECIFIED.

4. GRADE ELEVATIONS, WHERE NOTED
ARE FOR TOP OF CURB UNLESS
OTHERWISE SPECIFIED.

5. CONTRACTOR IS TO INSTALL
4"x4"x5' POST AND EMD AT THE END OF
EACH SANITARY SEWER SERVICE.

6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.

7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.

8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (NMUI AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.

9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

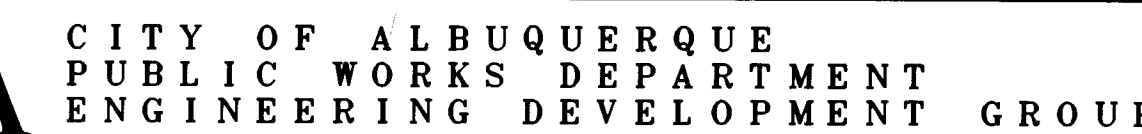
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).

12. WHEEL CHAIR RAMPS SHALL BE
CONSTRUCTED PRIOR TO ACCEPTANCE OF
CURB AND GUTTER.

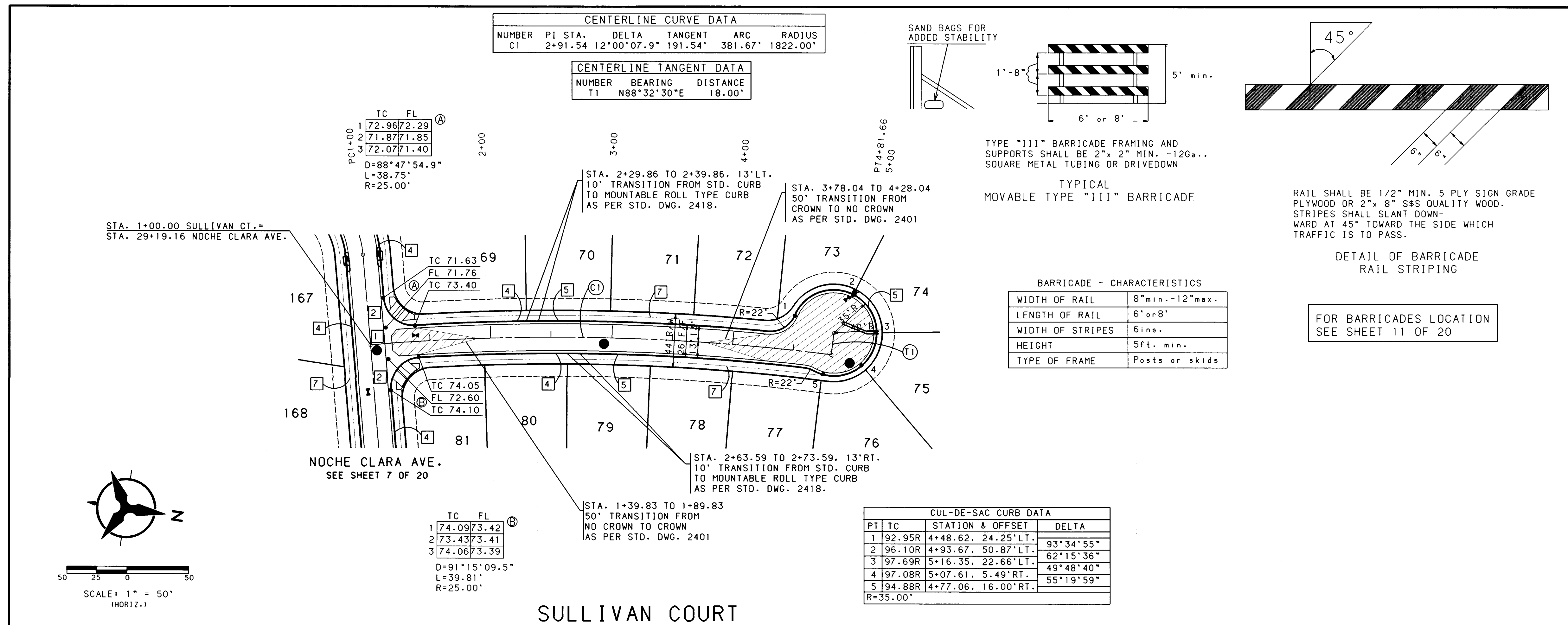
1. INSTALL CONCRETE VALLEY GUTTER
AS PER STD. DWG. 2420
2. INSTALL WHEEL CHAIR RAMP
AS PER STD. DWG. 2441, CASE II
3. • INSTALL WHEEL CHAIR RAMP
AS PER STD. DWG. 2441, CASE I
4. STD. CURB & GUTTER
AS PER STD. DWG. 2415
5. ROLL CURB & GUTTER
AS PER STD. DWG. 2415
6. • MEDIAN CURB & GUTTER
AS PER STD. DWG. 2415
7. FUTURE 4' SIDEWALK
8. • BUILD 4' SIDEWALK
9. • BUILD 6' SIDEWALK
10. • FUTURE 6' SIDEWALK

• NOT APPLICABLE THIS SHEET



SEVEN BAR NORTH - UNIT 6
PAVING PLAN & PROFILE
NOCHE CLARA AVENUE

CITY PROJECT NO.	4982.99	ZONE MAP NO.	A-13	SHEET	7	OF	20
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NOTES

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- ALL CURB RETURN RADIUS SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
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KEYED GENERAL NOTES

- INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
- INSTALL WHEEL CHAIR RAMP AS PER STD. DWG. 2441, CASE II
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- STD. CURB & GUTTER AS PER STD. DWG. 2415
- ROLL CURB & GUTTER AS PER STD. DWG. 2415
- MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
- FUTURE 4' SIDEWALK
- BUILD 4' SIDEWALK
- BUILD 6' SIDEWALK
- FUTURE 6' SIDEWALK

NOT APPLICABLE THIS SHEET

BOHANNAN-HUSTON INC.
ENGINEERS, PLANNERS, PHOTOGRAMMETRISTS, SURVEYORS, LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
PAVING PLAN & PROFILE
SULLIVAN COURT

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL MO/DAY/YR MO/DAY/YR

LAST DESIGN UPDATE

DESIGNED BY PR. DF DATE 10/97
DRAWN BY TSG. BS DATE 10/97
CHECKED BY JDA DATE 10/97

CITY PROJECT NO. 4982.99 ZONE MAP NO. A-13 SHEET 8 OF 20

SCANNED BY BY LASON

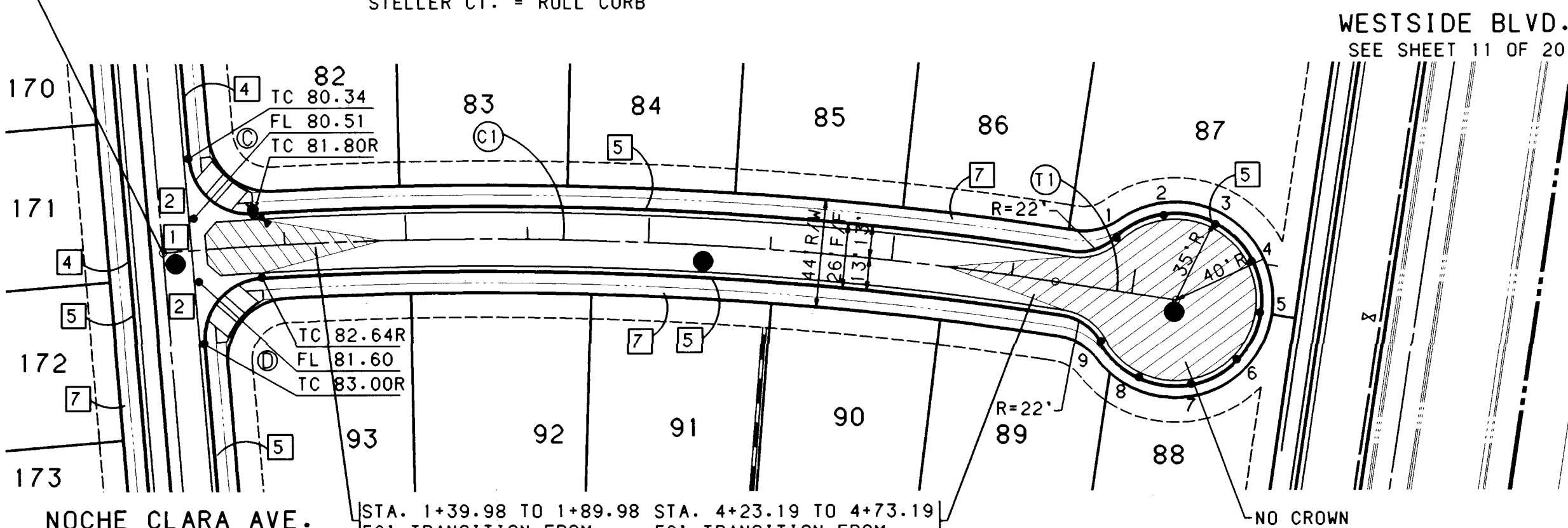
BOHANNAN-HUSTON, INC.
DATE: OCT. 1997

STA. 1+00.00 STELLER CT. =
STA. 31+87.16 NOCHE CLARA AVE.

TC	FL
1 81.34R81.01	
2 80.59 80.57	
3 80.79 80.12	

D=88°35'46.6"
L=38.66'
R=25.00'

NOTE:
TRANSITION FROM STD. CURB TO
ROLL CURB THROUGH WHEEL CHAIR
RAMP AS PER STD. DWG. 2418.
STELLER CT. = ROLL CURB



NOCHE CLARA AVE.
SEE SHEET 7 OF 20

STA. 1+39.98 TO 1+89.98
50' TRANSITION FROM
NO CROWN TO CROWN
AS PER STD. DWG. 2401

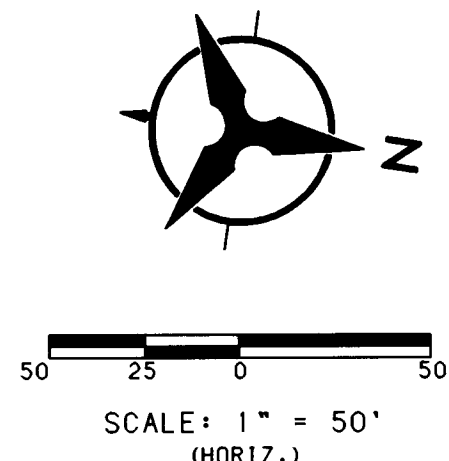
TC	FL
1 82.90R82.57	
2 82.50 82.48	
3 82.72R82.39	

D=91°28'26.8"
L=39.91'
R=25.00'

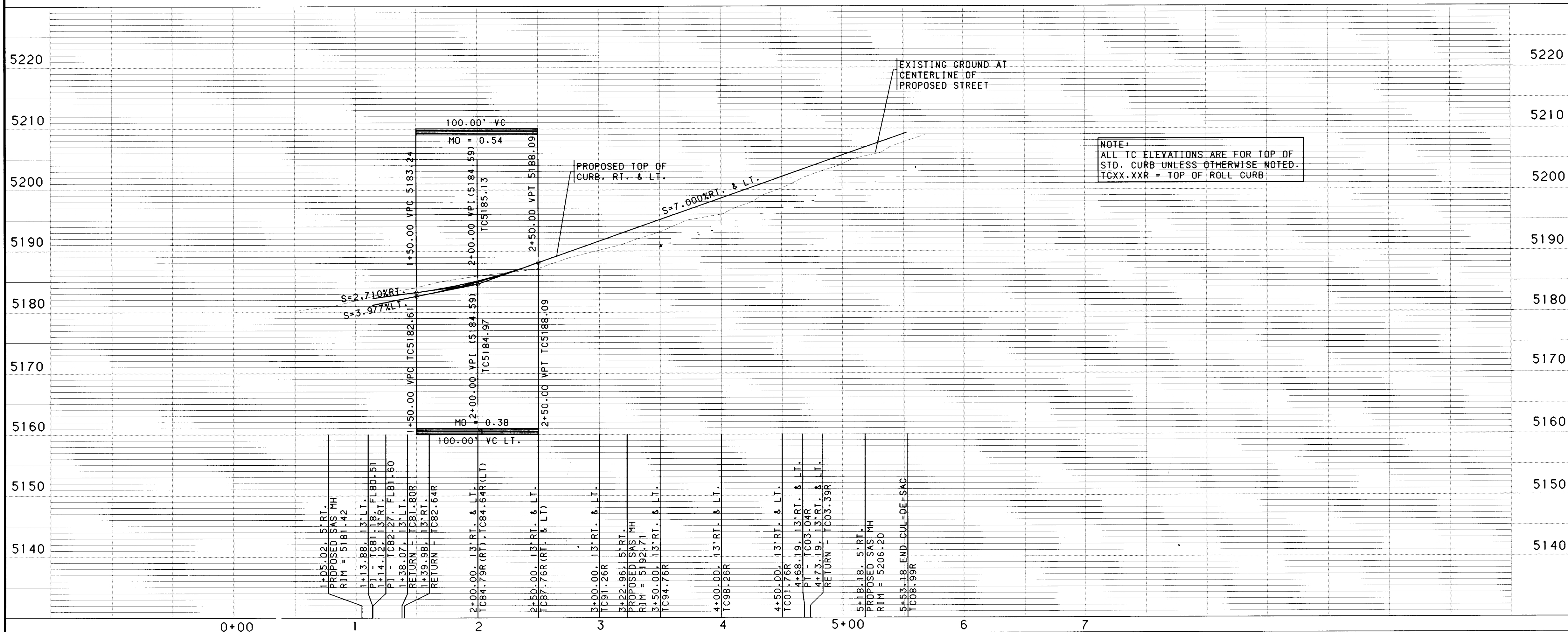
CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
CI	2+84.96	13°34'30.3"	184.96'	368.19'	1554.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
TI	S00°06'51"W	49.99'

CUL-DE-SAC CURB DATA			
PT	TC	STATION & OFFSET	DELTA
1	04.60R	4+90.55, 21.49'LT.	35°31'46"
2	05.84R	5+08.19, 33.54'LT.	35°31'46"
3	07.33R	5+29.54, 33.10'LT.	35°31'46"
4	08.53R	5+46.66, 20.34'LT.	35°31'46"
5	08.99R	5+53.18, CL	35°31'46"
6	08.53R	5+46.66, 20.34'RT.	35°31'46"
7	07.33R	5+29.54, 33.10'RT.	35°31'46"
8	05.84R	5+08.19, 33.54'RT.	35°31'46"
9	04.60R	4+90.55, 21.49'RT.	35°31'46"
R=35.00'			



STELLER COURT



NOTE:
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TCXX.XXR = TOP OF ROLL CURB

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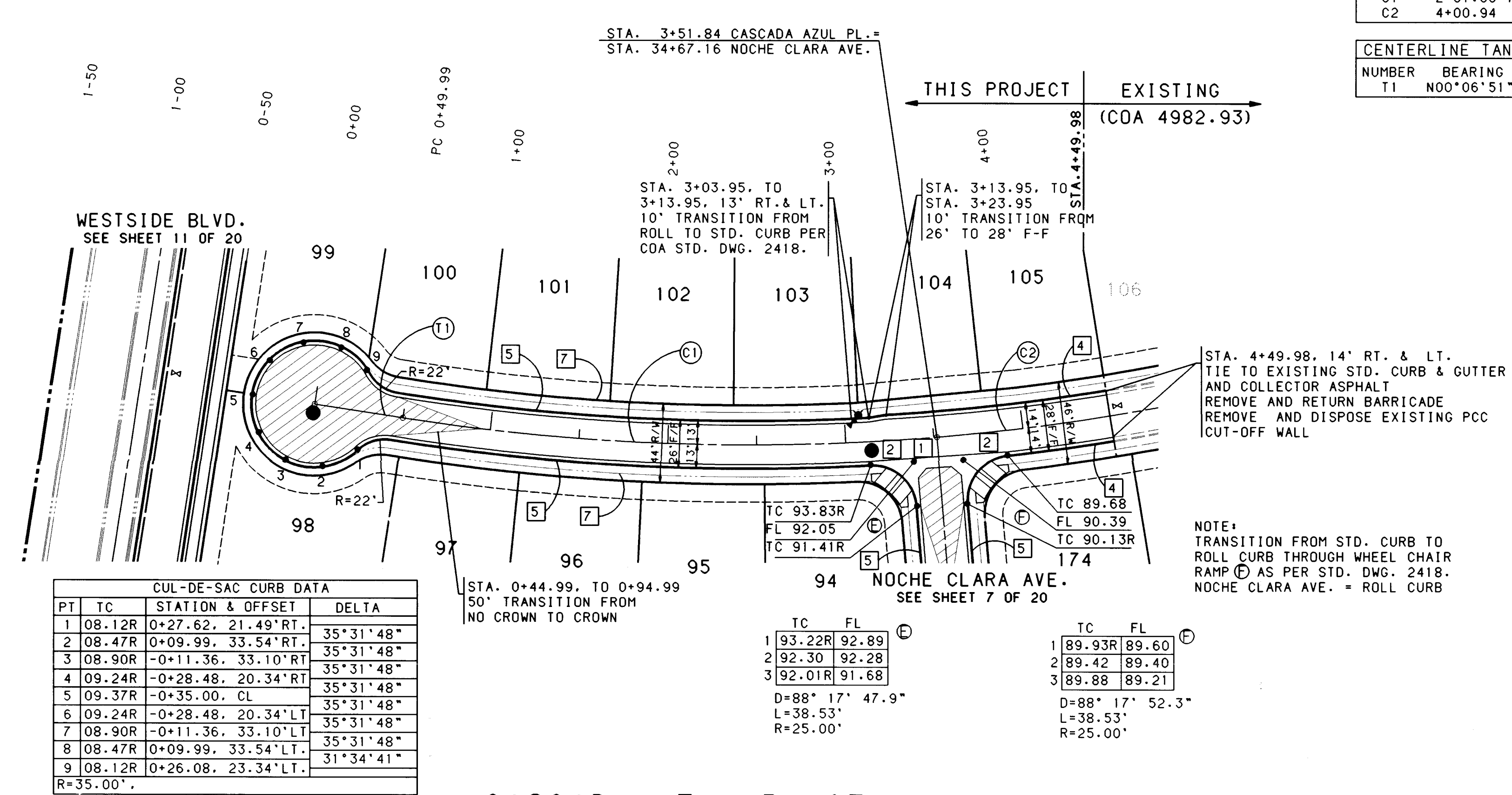
- KEYED GENERAL NOTES**
1. INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
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BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
PAVING PLAN & PROFILE
STELLER COURT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO/DAY/YR.	MO/DAY/YR.



CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C1	2+01.63	13°34'30.3"	151.63'	301.85'	1274.00'
C2	4+00.94	4°24'51.3"	49.10'	98.15'	1274.00'

CENTERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N00°06'51"E	49.99'

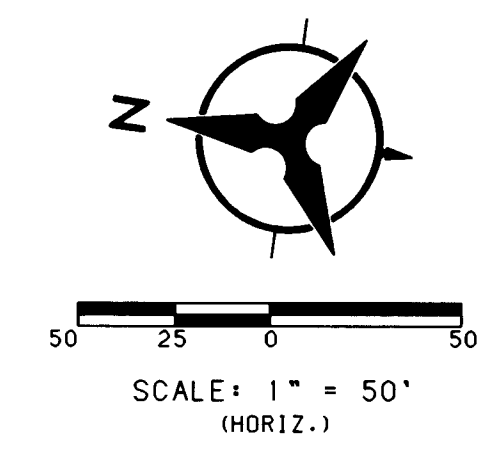
CUL-DE-SAC CURB DATA			
PT	TC	STATION & OFFSET	DELTA
1	08.12R	0+27.62, 21.49'RT.	35°31'48"
2	08.47R	0+09.99, 33.54'RT.	35°31'48"
3	08.90R	0+11.36, 33.10'RT.	35°31'48"
4	09.24R	0+28.48, 20.34'RT.	35°31'48"
5	09.37R	0+35.00, CL	35°31'48"
6	09.24R	0+28.48, 20.34'LT.	35°31'48"
7	08.90R	0+11.36, 33.10'LT.	35°31'48"
8	08.47R	0+09.99, 33.54'LT.	35°31'48"
9	08.12R	0+26.08, 23.34'LT.	31°34'41"
R=35.00'			

TC	FL
1 93.22R	92.89
2 92.30	92.28
3 92.01R	91.68

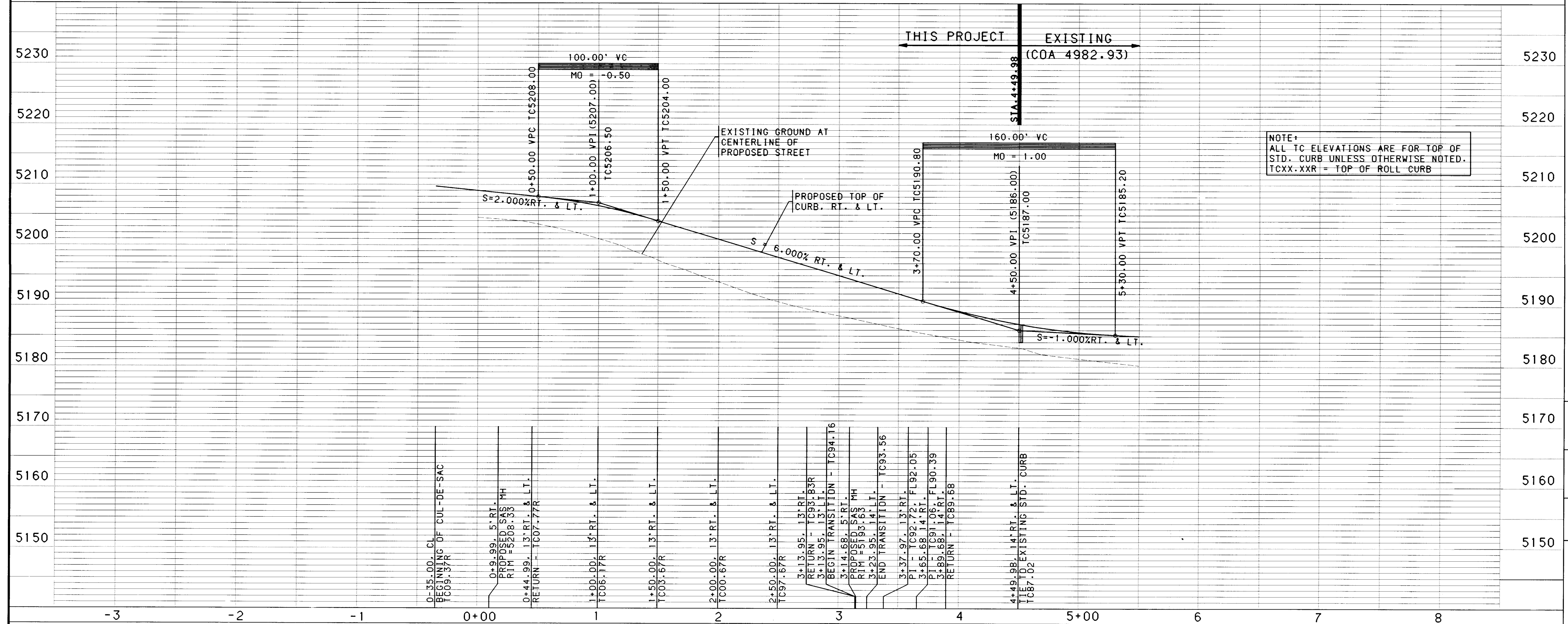
D=88° 17' 47.9"
L=38.53'
R=25.00'

TC	FL
1 89.93R	89.60
2 89.42	89.40
3 89.88	89.21

D=88° 17' 52.3"
L=38.53'
R=25.00'



CASCADE AZUL PLACE



NOTE:
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TCXX.XXR = TOP OF ROLL CURB

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KEYED GENERAL NOTES

- INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
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 - BUILD 4' SIDEWALK
 - BUILD 6' SIDEWALK
 - FUTURE 6' SIDEWALK
- NOT APPLICABLE THIS SHEET

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
PAVING PLAN & PROFILE
CASCADE AZUL PLACE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR	MO./DAY/YR

LAST DESIGN UPDATE

NO. DATE

REMARKS

REVISIONS

DESIGN

DESIGNED BY

PR. DF

DATE

DRAWN BY

TSG. BS

DATE

CHECKED BY

JCA

DATE

CITY PROJECT NO.

4982.99

ZONE MAP NO.

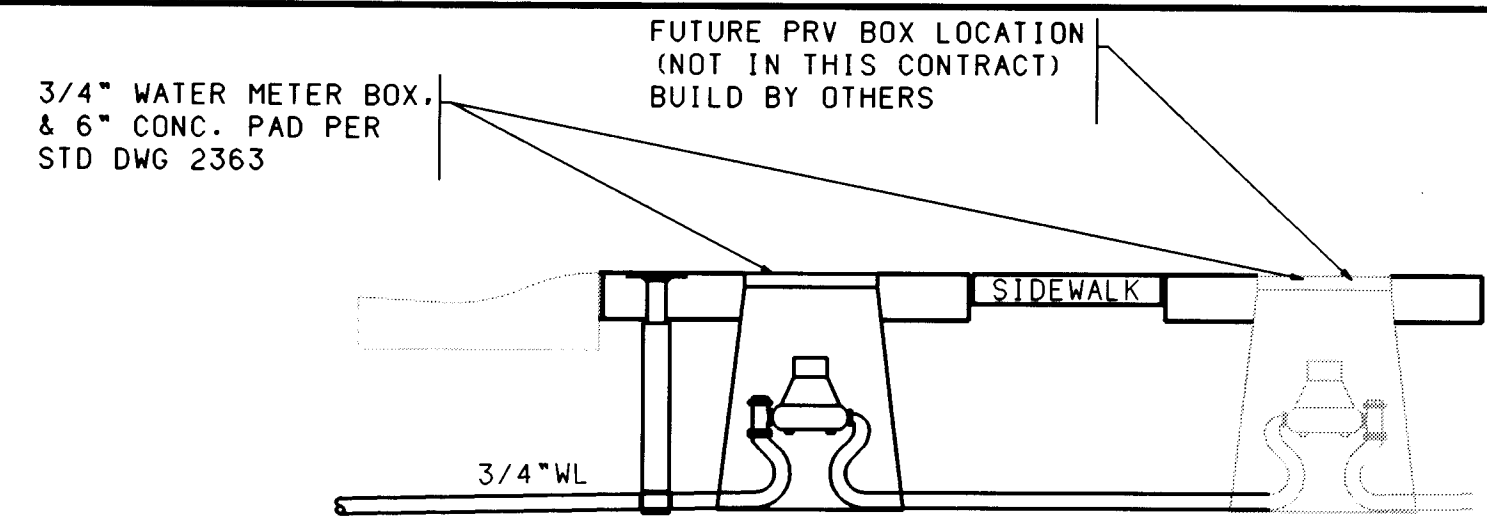
A-13

SHEET

10

OF

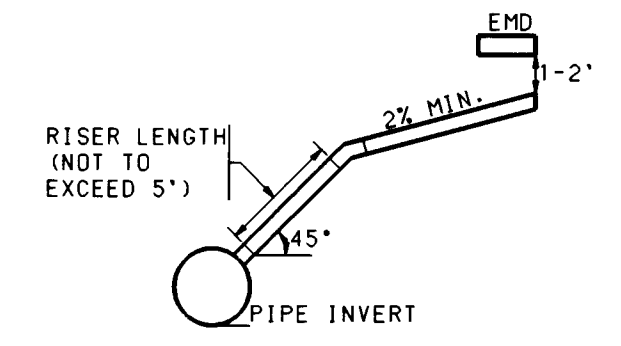
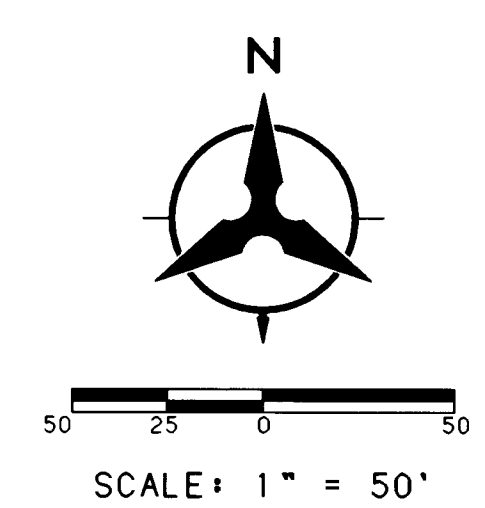
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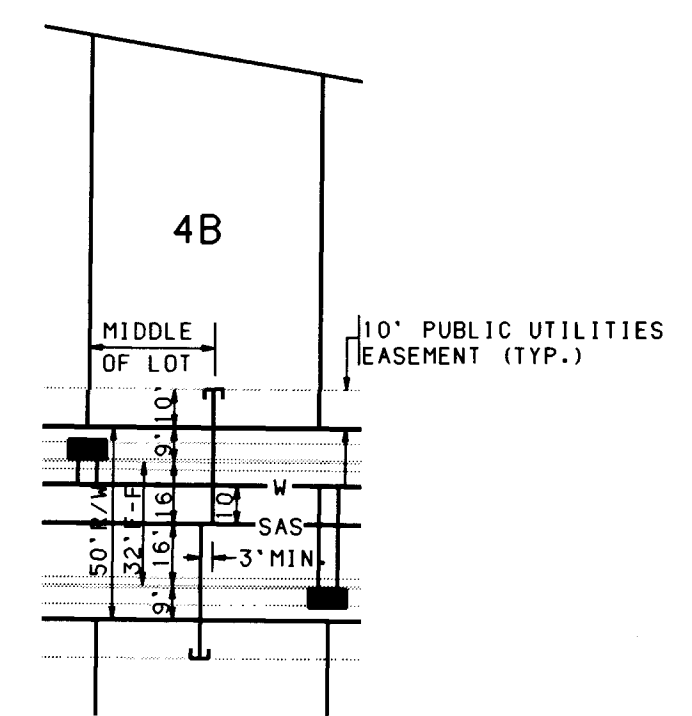
NOTE: FOR LOTS 82 THRU 103
BUILDER SHALL INSTALL PRIVATE PRESSURE REDUCING VALVES ON LOTS 82 THRU 103. PROVIDE SEPARATE BOXES FOR VALVE AND METER.
THE PRV VALVE IS TO BE LOCATED ON THE LOT SIDE OF THE METER BOX.
SEE DETAIL THIS SHEET.

NMUI MASTER PLAN FOR WATER EXTENSION.
18" WATER LINE AS REFERRED TO IN THE INFRASTRUCTURE LIST WAS CONSTRUCTED BY COA. PROJECT No. 6064.59
SEE SHEET 18 OF 20.

NMUI MASTER PLAN FOR SANITARY SEWER
18" SEWER AS REFERRED TO IN THE INFRASTRUCTURE LIST WAS BUILT BY COA. PROJECT No's. 4082.90 AND 4982.92



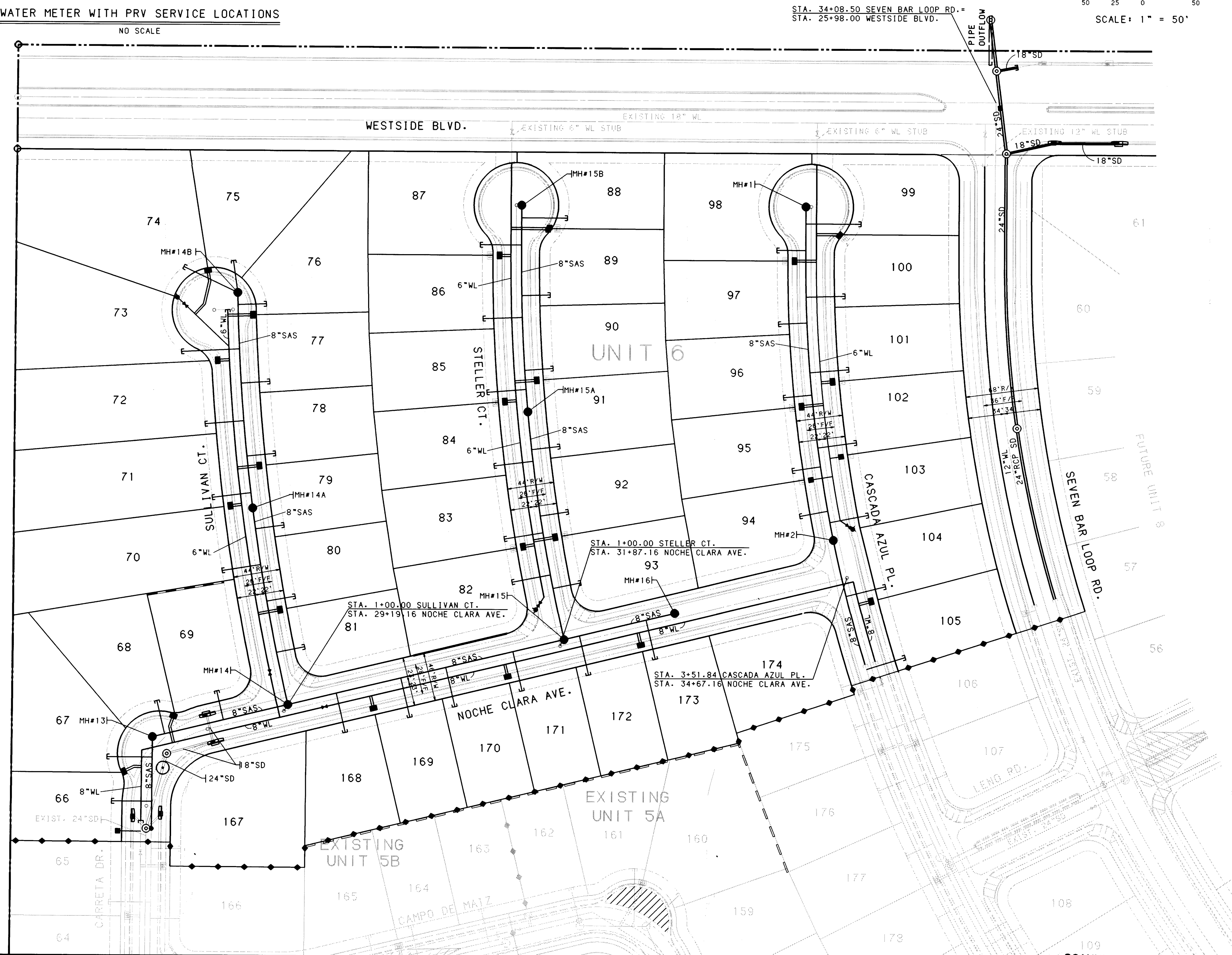
SERVICE RISER DETAIL
(SERVICE CONNECTION & INSTALLATION TO CONFORM TO COA STD. DWG. 2134)



TYPICAL UTILITY SERVICE LOCATION
NO SCALE

LEGEND	
PROJECT BOUNDARY	---
PROPOSED CURB & GUTTER	---
FUTURE CURB & GUTTER	---
FUTURE SIDEWALK	---
PROPOSED SANITARY SEWER MANHOLE	●
EXISTING SANITARY SEWER MANHOLE	○
PROPOSED FIRE HYDRANT	●
EXISTING FIRE HYDRANT	○
PROPOSED GATE VALVE	+
EXISTING GATE VALVE	+
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	⊙
PROPOSED STORM DRAIN INLET	■
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	⊙
EXISTING STORM DRAIN INLET	■
PROPOSED SANITARY SEWER LINE	SAS
EXISTING SANITARY SEWER LINE	SAS
PROPOSED WATER LINE	W
EXISTING WATER LINE	W
PROPOSED SANITARY SEWER SERVICE	---
PROPOSED WATER METER SERVICE	---
PRESSURE RELIEF VALVE	○
FUTURE PRV BOX	□

WATER METER WITH PRV SERVICE LOCATIONS
NO SCALE



**BOHANNAN-HUSTON, INC.**
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ALBUQUERQUE LAS CRUCES SANTA FE

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

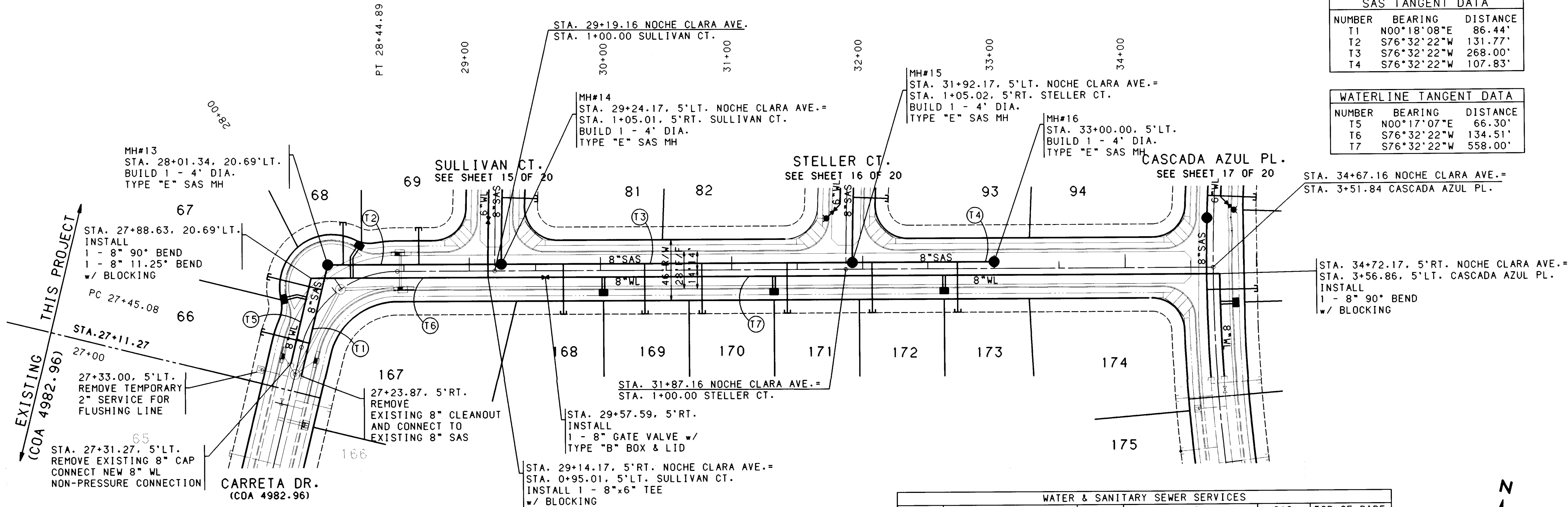
SEVEN BAR NORTH - UNIT 6
OVERALL
UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	4982.99	ZONE MAP NO.	A-13	SHEET	12	OF	20
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SCANNED BY LASON
BH1 JOB NO. 93217A2440
DATE: JULY 18, 1997

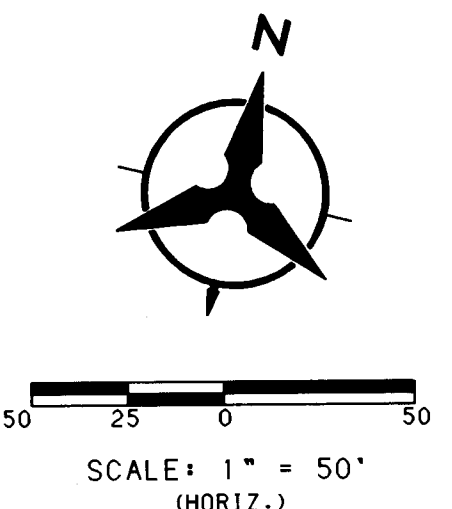
AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		BY		DATE	
CONTRACTOR	Success Mach	TBM NO. 205	CHISEL "X" LOCATED APPROXIMATELY 459 FEET SOUTH OF THE BLACK'S DIVERSION INLET STRUCTURE ON THE EAST WALL.	NO. BY	DATE	NO. BY	DATE	NO. DATE	REMARKS	DESIGN	DATE	DATE	DATE
INSPECTOR'S ACCEPTANCE	DATE												
DRAWINGS	DATE												
SELECTED BY	DATE												
RECORDED BY	DATE												
NO.													



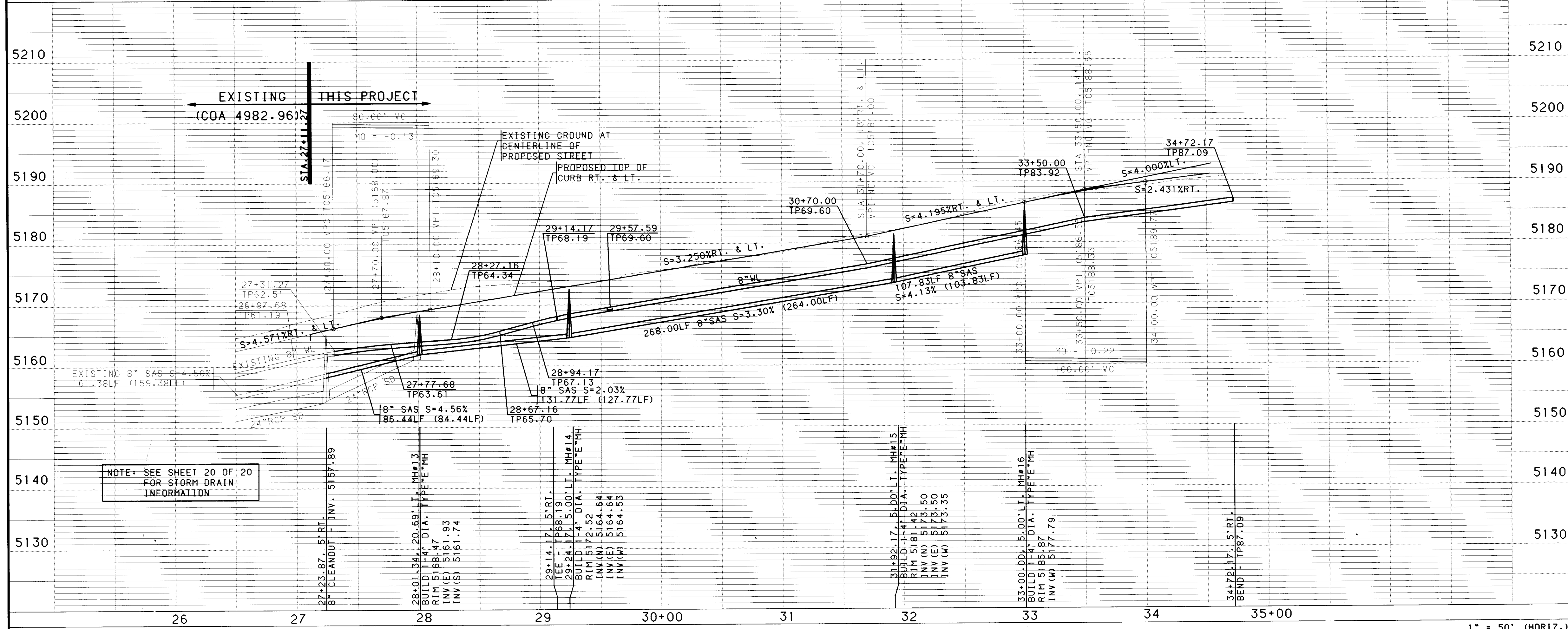
SAS TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N00°18'08"E	86.44'
T2	S76°32'22"W	131.77'
T3	S76°32'22"W	268.00'
T4	S76°32'22"W	107.83'

WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T5	N00°17'07"E	66.30'
T6	S76°32'22"W	134.51'
T7	S76°32'22"W	558.00'

WATER & SANITARY SEWER SERVICES					
LOT	STATION & WL OFFSET	WL TYPE	STATION & SAS OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
66	27+77.54, 13.13' LT.	DOUBLE	27+49.72, 4.85' RT.	37.89'	60.85
67			27+88.69, 8.78' LT.	42.81'	62.90
68	28+10.64, 2.99' LT.	DOUBLE	28+09.58, 14.77' LT.	32.17'	64.42
69			28+61.61, 5' LT.	28.00'	65.46
168	30+02.31, 5' RT.	DOUBLE	29+71.36, 5' LT.	38.00'	68.60
169			30+33.66, 5' LT.	38.00'	70.66
170	31+32.31, 5' RT.	DOUBLE	30+77.31, 5' LT.	38.00'	72.10
171			31+42.31, 5' LT.	38.00'	74.24
172	32+62.31, 5' RT.	DOUBLE	32+07.31, 5' LT.	38.00'	76.51
173			32+72.31, 5' LT.	38.00'	79.20



NOTE: SEE SHEET 20 OF 20 FOR STORM DRAIN INFORMATION



NOTE: SEE SHEET 20 OF 20 FOR STORM DRAIN INFORMATION

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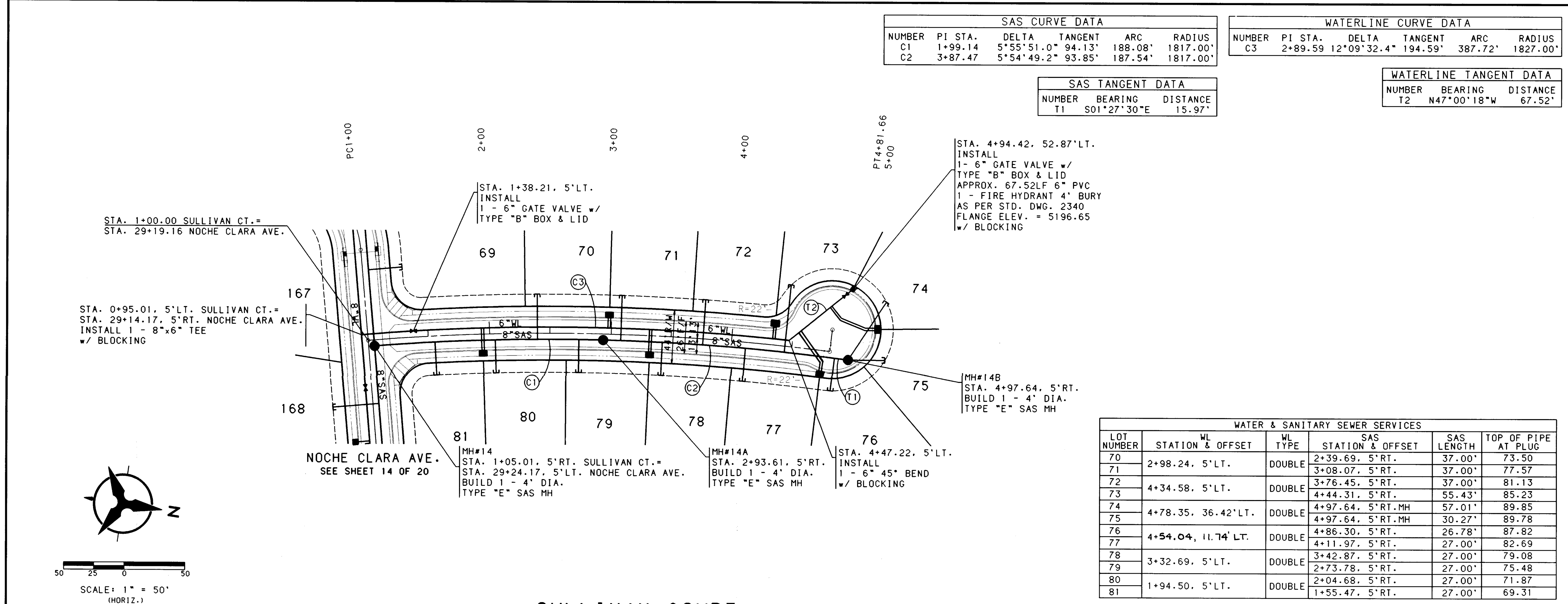
BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
UTILITY PLAN & PROFILE
NOCHE CLARA AVENUE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO/DAY/YR	MO/DAY/YR
LAST DESIGN UPDATE			
CITY PROJECT NO.		ZONE MAP NO.	SHEET OF
4982.99		A-13	14 20

SCANNED BY LASON
BOHANNAN-HUSTON, INC.
DATE: OCT. 1, 1997



SAS CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C1	1+99.14	5°55'51.0"	94.13'	188.08'	1817.00'
C2	3+87.47	5°54'49.2"	93.85'	187.54'	1817.00'

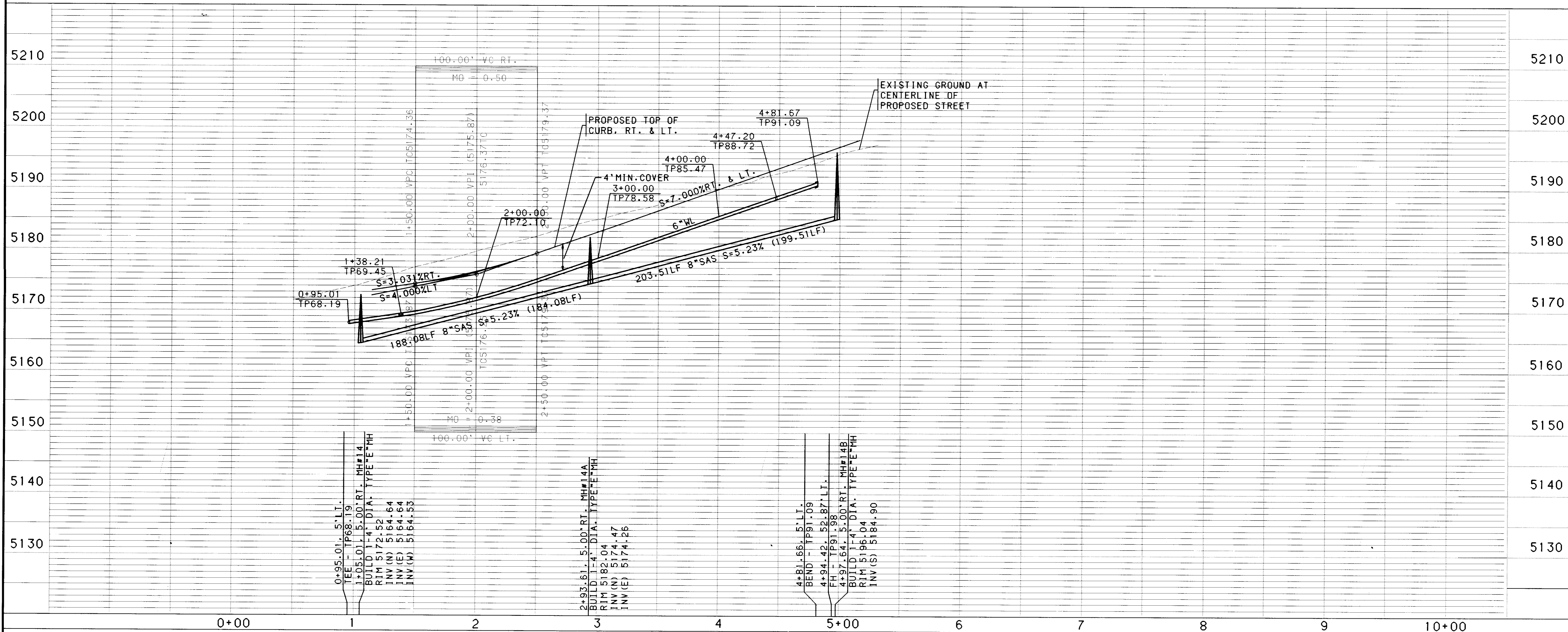
SAS TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S01°27'30"E	15.97'

WATERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C3	2+89.59	12°09'32.4"	194.59'	387.72'	1827.00'

WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T2	N47°00'18"W	67.52'

WATER & SANITARY SEWER SERVICES					
LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
70	2+98.24, 5'LT.	DOUBLE	2+39.69, 5'RT.	37.00'	73.50
71			3+08.07, 5'RT.	37.00'	77.57
72			3+76.45, 5'RT.	37.00'	81.13
73	4+34.58, 5'LT.	DOUBLE	4+44.31, 5'RT.	55.43'	85.23
74			4+97.64, 5'RT. MH	57.01'	89.85
75	4+78.35, 36.42'LT.	DOUBLE	4+97.64, 5'RT. MH	30.27'	89.78
76	4+54.04, 11.74'LT.	DOUBLE	4+86.30, 5'RT.	26.78'	87.82
77			4+11.97, 5'RT.	27.00'	82.69
78	3+32.69, 5'LT.	DOUBLE	3+42.87, 5'RT.	27.00'	79.08
79			2+73.78, 5'RT.	27.00'	75.48
80	1+94.50, 5'LT.	DOUBLE	2+04.68, 5'RT.	27.00'	71.87
81			1+55.47, 5'RT.	27.00'	69.31

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STA. 1+00.00 STELLER CT. =
STA. 31+87.16 NOCHE CLARA AVE.

STA. 1+47.92, 5'LT.
INSTALL
1 - 6" 45° BEND
1 - 6" GATE VALVE W/
TYPE "B" BOX AND LID
APPROX. 14.17LF 6" PVC
1 - FIRE HYDRANT 4' BURY
AS PER STD. DWG. 2340
FLANGE ELEV. = 5182.30
✓ BLOCKING

NOCHE CLARA AVE.
SEE SHEET 14 OF 20

STA. 5+57.18, 5'LT.
REMOVE
EXISTING 6" CAP & BLOCKING
CONNECT NEW 6" WATERLINE

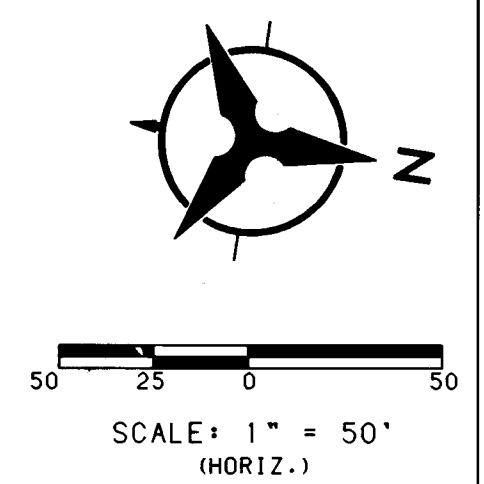
WATER & SANITARY SEWER SERVICES						
LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG	
82	1+98.04, 5'LT.	DOUBLE	1+67.44, 5'RT.	37.00'	78.80	
83			2+07.84, 5'RT.	37.00'	81.00	
84	3+34.35, 5'LT.	DOUBLE	2+76.00, 5'RT.	37.00'	84.80	
85			3+44.15, 5'RT.	37.00'	89.07	
86			4+12.30, 5'RT.	37.00'	92.82	
87	4+70.69, 5'LT.	DOUBLE	4+80.71, 5'RT.	38.97'	96.64	
88			5+06.25, 5'RT.	43.56'	98.19	
89	4+96.25, 5'LT.	DOUBLE	4+32.97, 5'RT.	27.00'	93.65	
90			3+62.30, 5'RT.	27.00'	89.77	
91	3+52.09, 5'LT.	DOUBLE	2+87.12, 5'RT.	27.00'	85.63	
92			2+23.77, 5'RT.	27.00'	81.87	
93	2+01.73, 5'LT.	DOUBLE	1+54.41, 5'RT.	27.00'	78.33	

SAS CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C1	2+13.81	8°02'07.6"	108.80'	217.24'	1549.00'
C2	3+95.39	5°21'16.8"	72.44'	144.76'	1549.00'

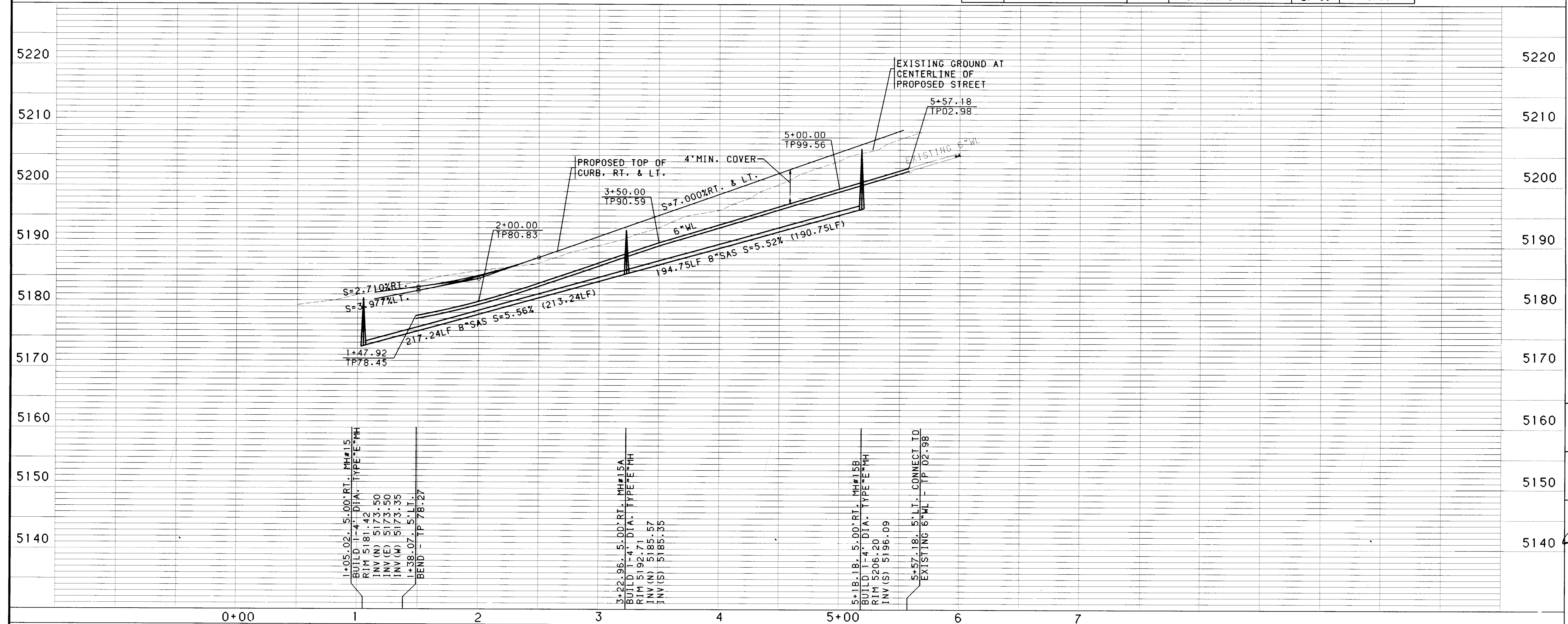
WATERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C3	3+09.14	11°48'29.9"	161.22'	321.30'	1559.00'

SAS TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S00°06'51"W	49.99'

WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T2	N33°18'48"E	14.27'
T3	N00°06'51"E	88.99'



STELLER COURT



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AS-BUILT INFORMATION		BENCH MARKS		FIELD NOTES		ENGINEER'S SEAL	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CHISLED "X" LOCATED APPROXIMATELY 459 FEET SOUTH OF THE BLACK'S DIVERSION INLET STRUCTURE ON THE EAST WALL.							
ELEV. 5110.55							

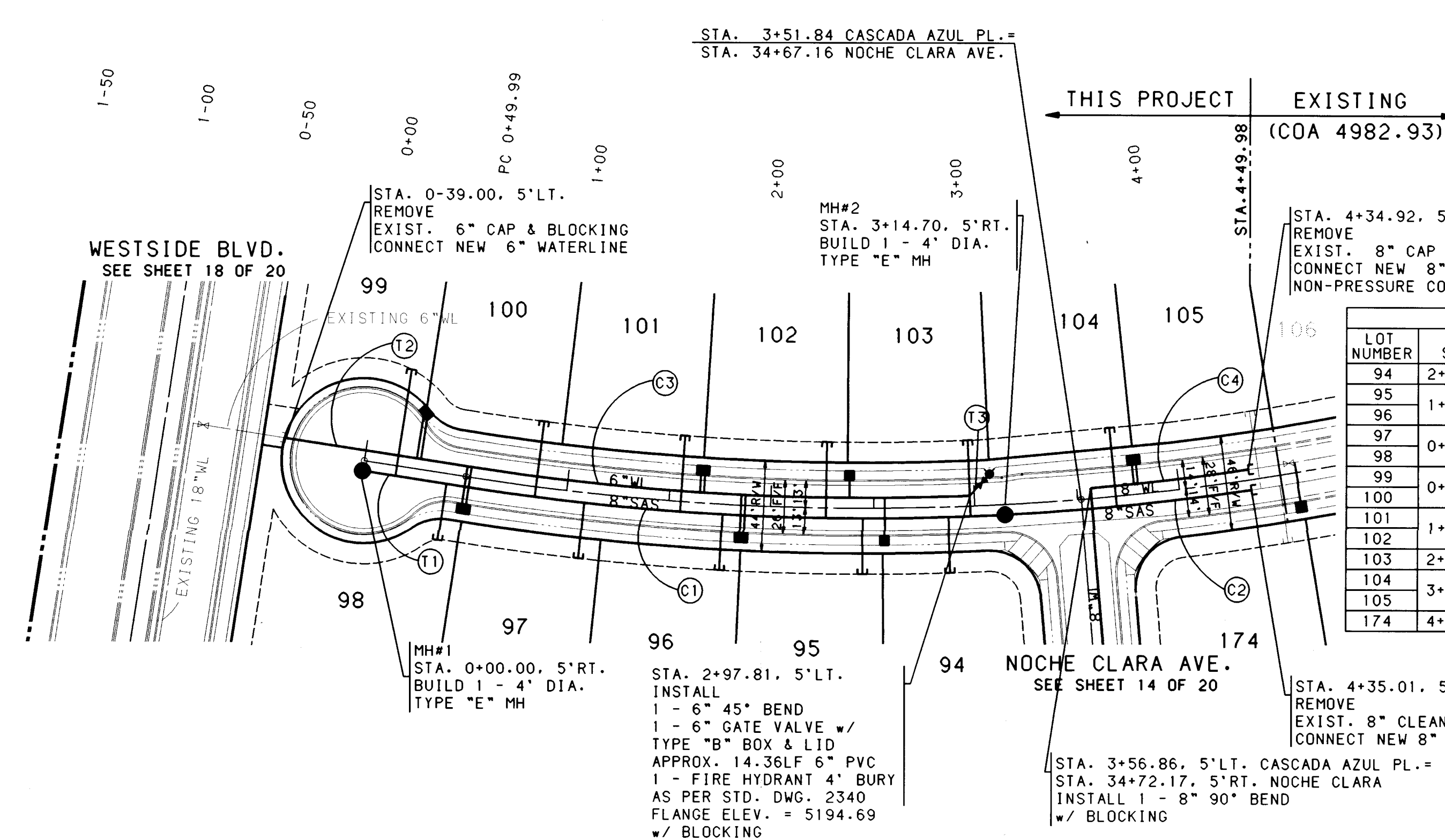
DESIGNED BY: *John C. Standa*
DRAWN BY: *John C. Standa*
CHECKED BY: *John C. Standa*
DATE: 10/97
DATE: 10/97
DATE: 10/97

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
UTILITY PLAN & PROFILE
STELLER COURT

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.



SAS CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C1	1+83.34	11°54'16.5"	133.35'	265.74'	1279.00'
C2	3+75.13	5°24'39.7"	60.44'	120.79'	1279.00'

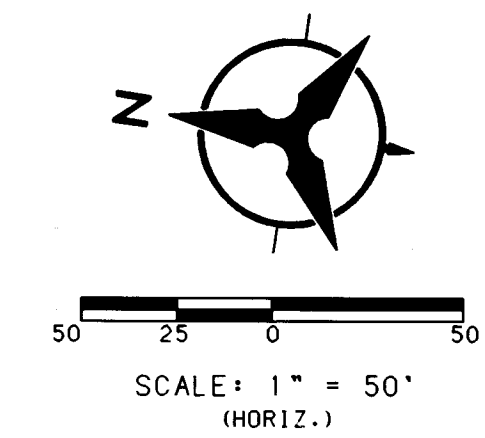
SAS TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S00°06'51"W	49.99'

WATERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	ARC	RADIUS
C3	1+73.81	11°8'43.1"	123.81'	246.85'	1269.00'
C4	3+95.75	3°30'38.2"	38.89'	77.75'	1269.00'

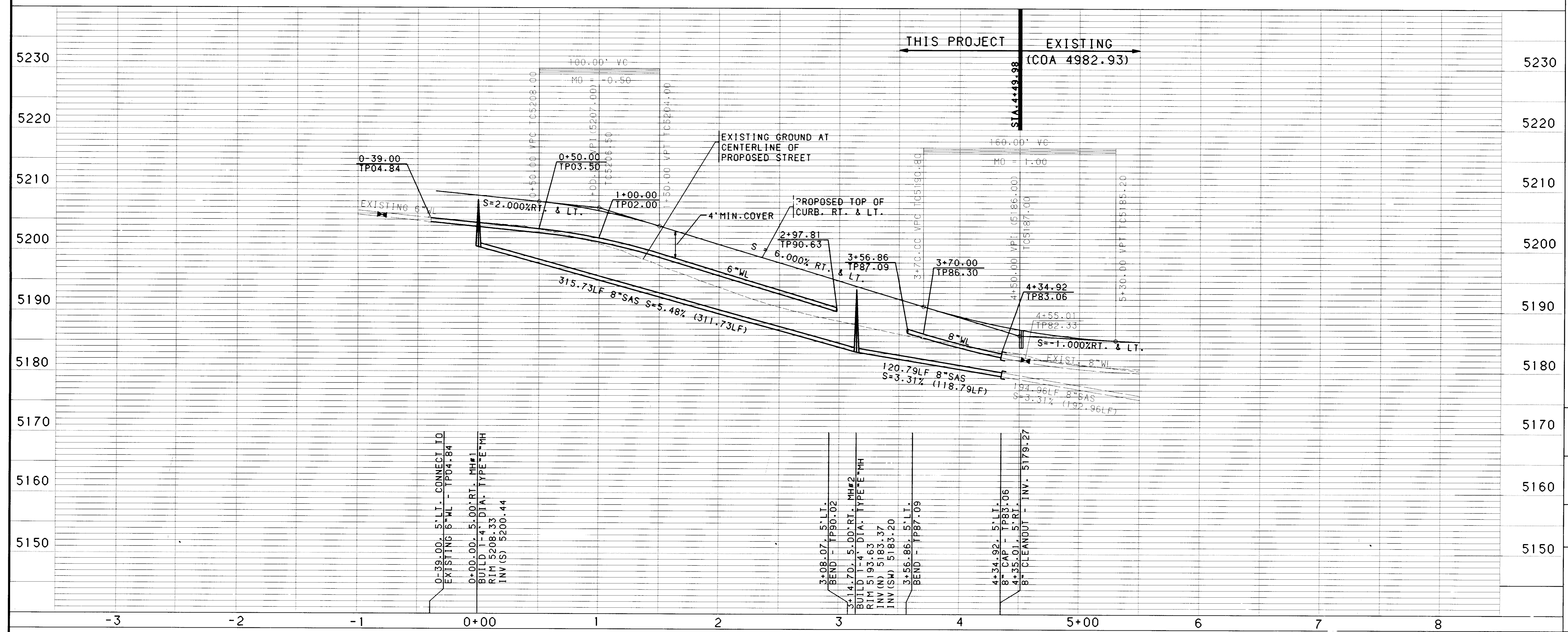
WATERLINE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T2	N00°06'51"E	88.99'
T3	S78°30'28"W	10.13'

WATER & SANITARY SEWER SERVICES					
LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISE)
94	2+54.43, 5.00'LT.	SINGLE	2+86.89, 5.00'RT	27.00'	88.19
95			2+44.66, 5.00'RT	27.00'	90.51
96	1+86.67, 5.00'LT.	DOUBLE	1+76.90, 5.00'RT	27.00'	94.24
97			1+09.15, 5.00'RT	27.00'	97.97
98	0+51.16, 5.00'LT.	DOUBLE	0+41.18, 5.00'RT	27.47'	00.45
99			0+16.07, 5.00'RT	52.34'	02.57
100	0+26.08, 5.00'LT.	DOUBLE	0+84.91, 5.00'RT	37.00'	99.70
101			1+55.87, 5.00'RT	37.00'	95.79
102	1+66.14, 5.00'LT.	DOUBLE	2+26.84, 5.00'RT	37.00'	91.89
103	2+37.11, 5.00'LT.	SINGLE	9+97.80, 5.00'RT	37.00'	86.99
104			3+68.75, 5.00'RT	38.40'	83.95
105	3+79.03, 5.00'LT.	DOUBLE	4+39.72, 5.00'RT	38.00'	81.58
174	4+58.64, 5.00'LT.	SINGLE	4+48.89, 5.00'RT	28.00'	80.98

*CONTRACTOR SHALL VERIFY SAS LATERALS



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
UTILITY PLAN & PROFILE
CASCADA AZUL PLACE

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

MO/DAY/YR

MO/DAY/YR

CITY PROJECT NO.

4982.99

ZONE MAP NO.

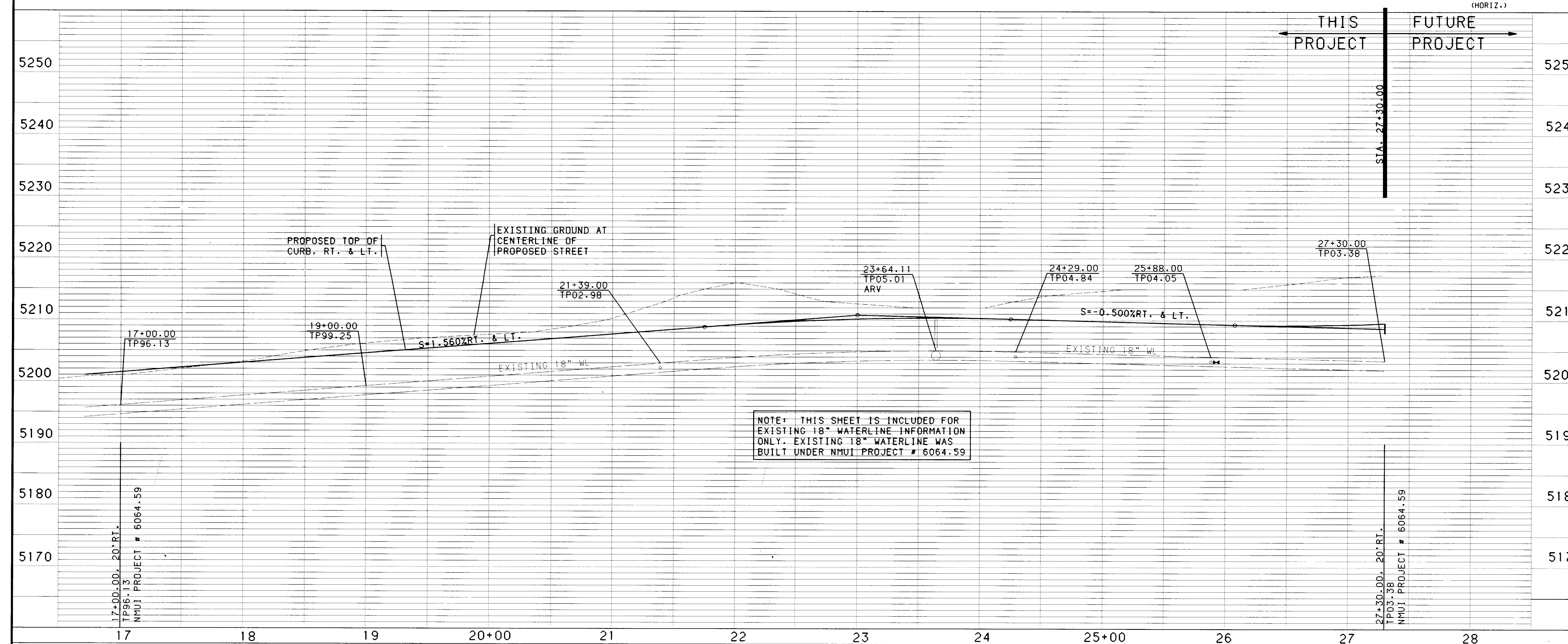
A-13

SHEET

17

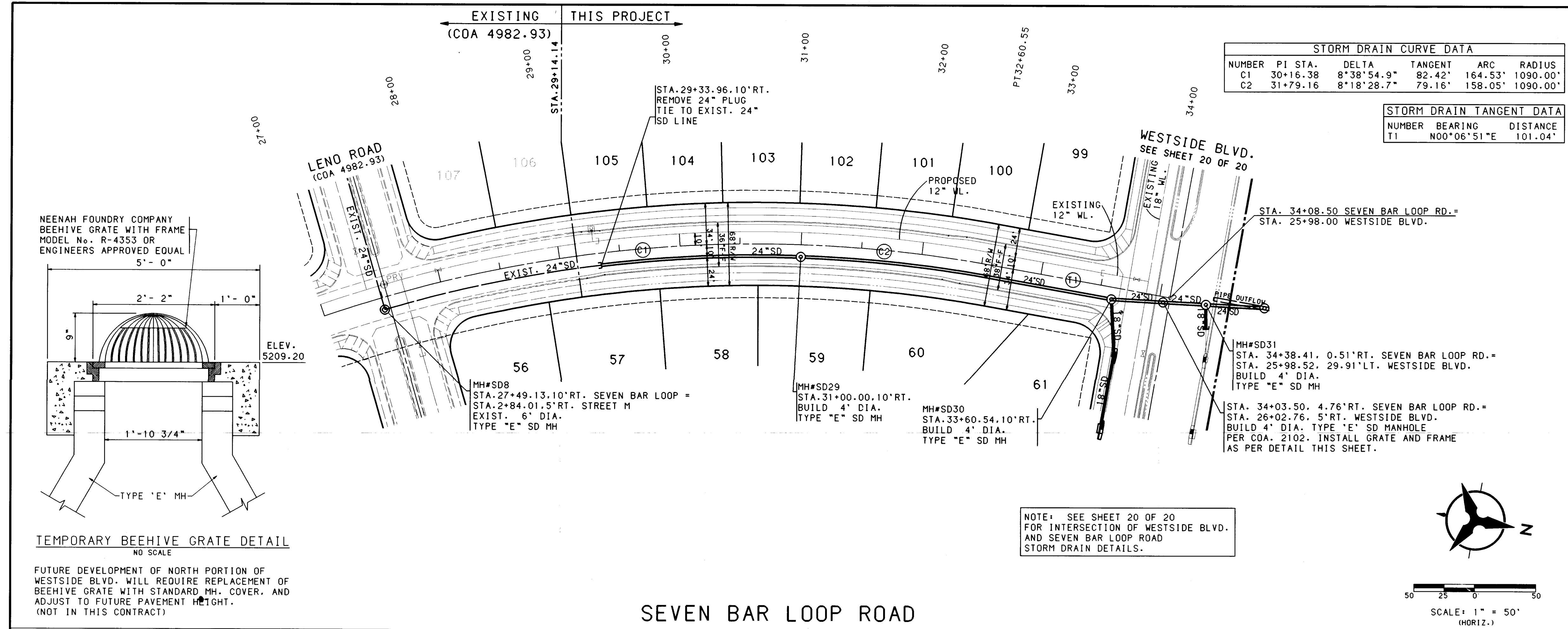
OF

20



	BOHANNAN-HUSTON INC. <i>ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS</i> ALBUQUERQUE LAS CRUCES SANTA FE													
														
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP														
														
SEVEN BAR NORTH - UNIT 6 UTILITY PLAN & PROFILE WESTSIDE BLVD. STA.16+71.30 TO 27+30.00														
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;">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> <tr><td></td><td></td></tr> </table>		MO./DAY/YR.										
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CITY PROJECT NO.	LAST DESIGN UPDATE													
4982.99	ZONE MAP NO. A-13	SHEET OF 18 20												

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AS-BUILT INFORMATION

CONTRACTOR	DATE	BY	NO.
BOHANNAN-HUSTON INC.	11-1-98	John C. Alexander	10-21-97

ENGINEER'S SEAL

DRAINAGE CERTIFICATION

I, JOHN C. ALEXANDER, OF BOHANNAN HUSTON, N.M.P.E. # 13476, HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY ALDRICH LAND SURVEYING, INC. L.S. # 7719. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

NAME: John C. Alexander
DATE: 11-1-98

BOHANNAN-HUSTON INC.
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ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
STORM DRAIN PLAN & PROFILE
SEVEN BAR LOOP ROAD

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO/DAY/YR	MO/DAY/YR

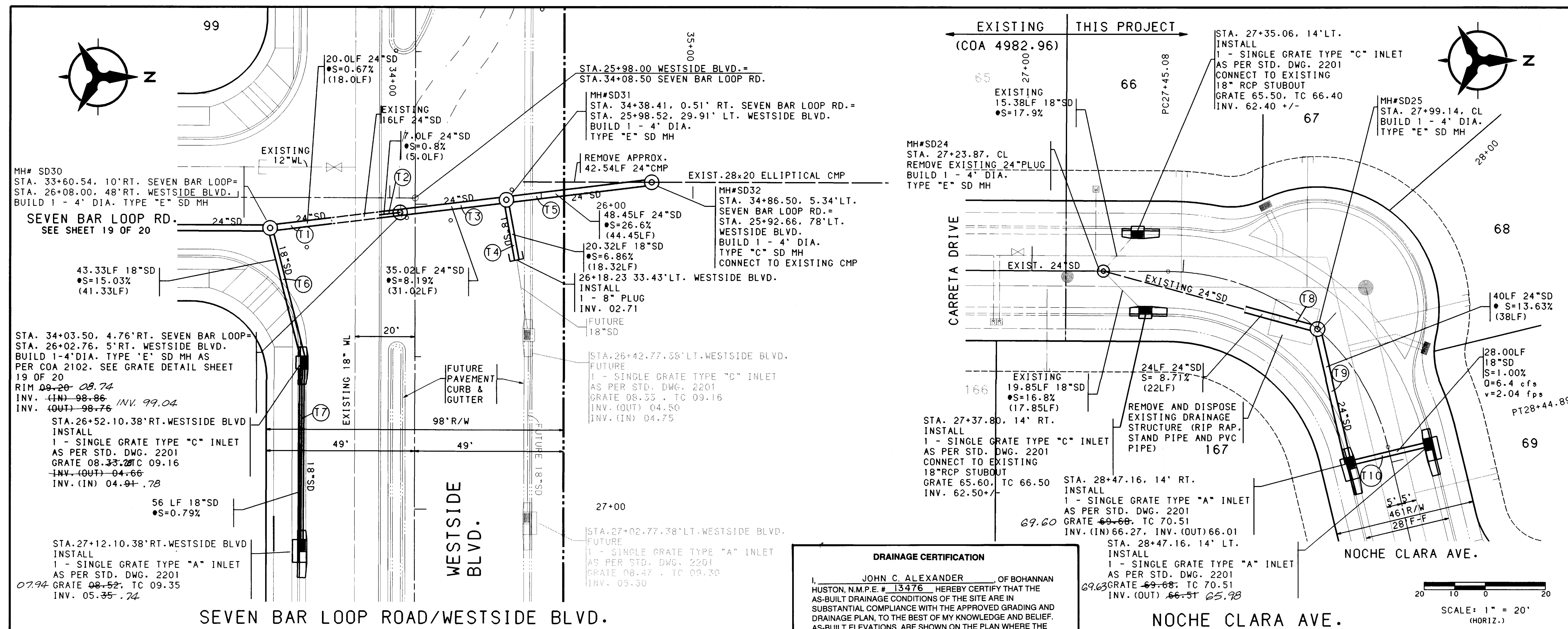
LAST DES/ON UPDATE

CITY PROJECT NO. 4982.99 ZONE MAP NO. A-13 SHEET 19 OF 20

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

SCANNED BY LASON

BOHANNAN-HUSTON, INC.
DATE: AUG. 7, 1997



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DRAINAGE CERTIFICATION

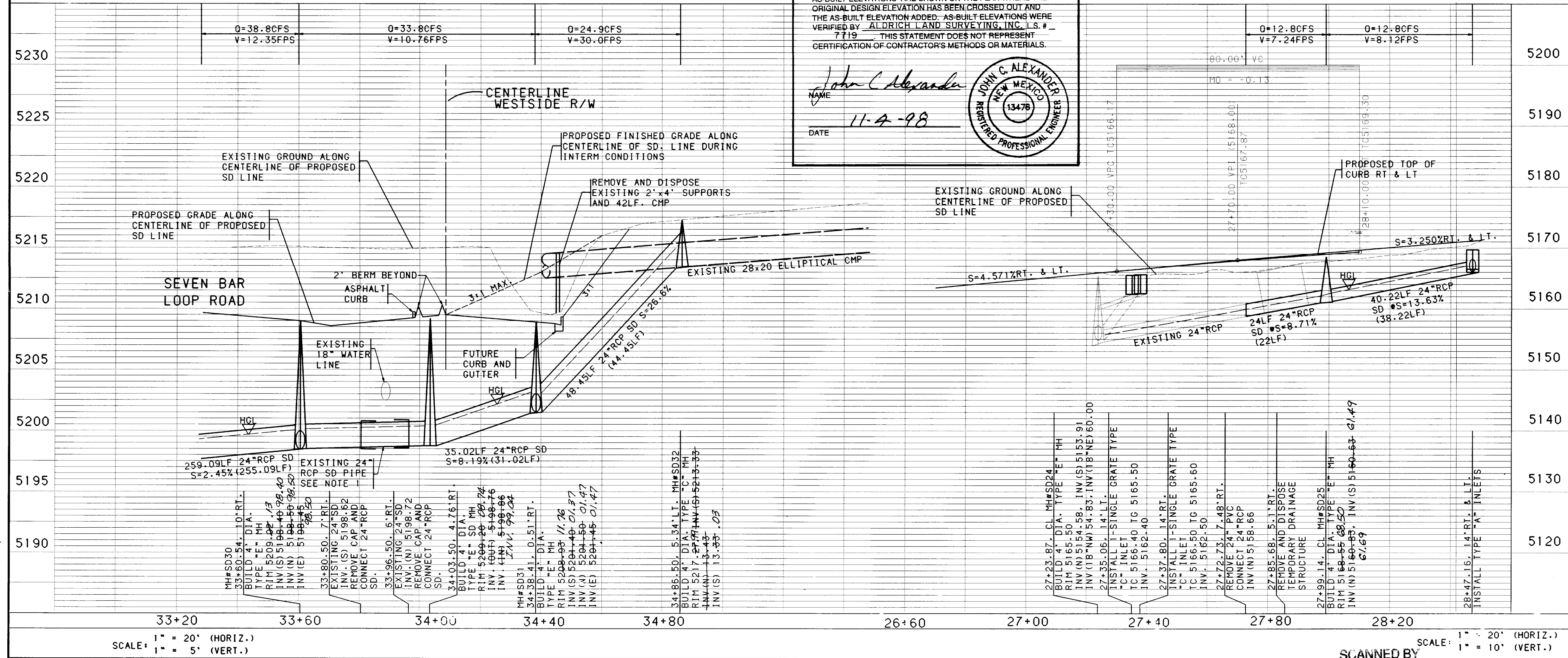
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NAME John C. Alexander
DATE 11-4-98

JOHN C. ALEXANDER
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
13476

TANGENT DATA

NUMBER	BEARING	DISTANCE
T1	S06°50'03"E	20.00'
T2	S06°50'04"E	7.00'
T3	N06°49'50"W	35.17'
T4	N79°34'22"E	20.04'
T5	S06°49'30"E	48.59'
T6	N77°23'22"E	45.20'
T7	S89°53'09"E	60.00'
T8	N15°03'59"E	24.00'
T9	N74°37'55"E	40.22'
T10	S13°27'38"E	28.00'



BOHANNAN-HUSTON INC.
ENGINEERS, PLANNERS, PHOTOGRAMMETRISTS, SURVEYORS, LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

SEVEN BAR NORTH - UNIT 6
STORM DRAIN PLAN & PROFILE
WESTSIDE BLVD. / NOCHE CLARA AVE.

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO/DAY/YR.
LAST DESIGN UPDATE		

SCANNED BY: BY IASON

CITY PROJECT NO. **4982.99** ZONE MAP NO. **A-13** SHEET **20** OF **20**