



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 28, 1993

James Topmiller, P.E.  
Bohannon Huston, Inc.  
7500 Jefferson NE  
Albuquerque, N.M. 87109

RE: DRAINAGE REPORT FOR TRAILS @ SEVEN BAR SOUTH (B-13/D7)  
RECEIVED MAY 20, 1993, ENGINEER'S STAMP DATED 5-19-93  
FOR SITE DEVELOPMENT PLAN & PRELIMINARY PLAT APPROVAL

Dear Mr. Topmiller:

Based on the information included in the submittal referenced above, City Hydrology APPROVES this project for Site Development Plan & Preliminary Plat.

The following comments must be addressed before this project will be approved for Final Plat or Work Order:

1. Written verification was recommended to save the Developer inconvenient and costly delays late in the process. All interested parties will be receive a copy of this correspondence. This does not guaranty that they will raise their concerns at an opportune time. The SCS and AMAFCA must approve the details of the storm drain connection to the Black's Channel. AMAFCA must approve the details of the storm drain outfall to the Calabacillas Arroyo. City Hydrology encourages you to work out a win-win solution with Albuq Housing Services. Their permission is required for grading on their property at Station 37+00 on Plate 7.
2. Call out swale on Plate 6 and locate it correctly. Call out the 15' of 60" SD between the bends.
3. What is the name of the street near Station 44+30 on Plate 8? Check that the 10 year velocity in the storm drain meets the 3 fps minimum required in section g, page 38 of the DPM Chapter 22.3.

xc: Fred Aguirre, DRB  
Dan Hogan, Hydrology  
J. Gordon Odell, S.C.S.  
Cliff Anderson, AMAFCA  
Greg Polk, Albuq. Housing Services

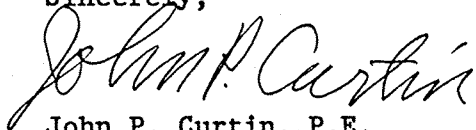
PUBLIC WORKS DEPARTMENT

PAGE 2 OF 2  
SEVEN BAR RANCH (B-13/D7)  
MAY 28, 1993

4. Add top of grate and invert elevations for drop inlets AC1, AC2, AB1 & AB2 at the intersection on Plate 9. Call out Wyes and their locations. An emergency spillway is required from the cul-de-sac to the manhole at Station 9+98.84.

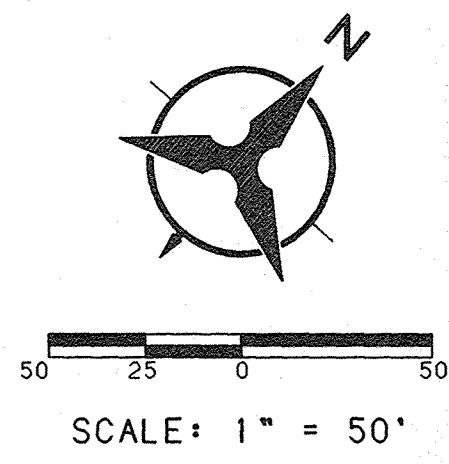
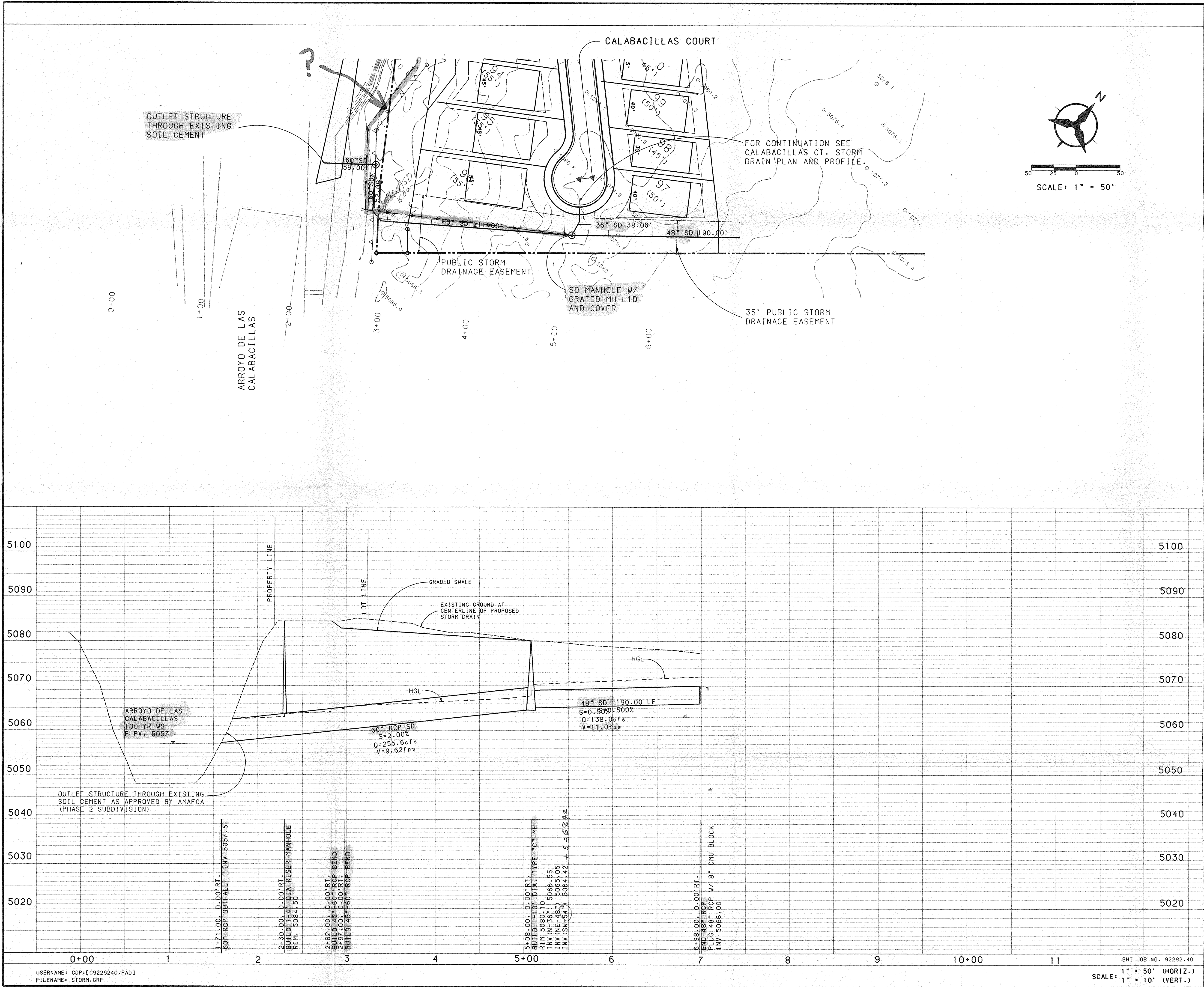
If you have any questions about this project, you may contact me at 768-2727.

Sincerely,

A handwritten signature in cursive script that reads "John P. Curtin".

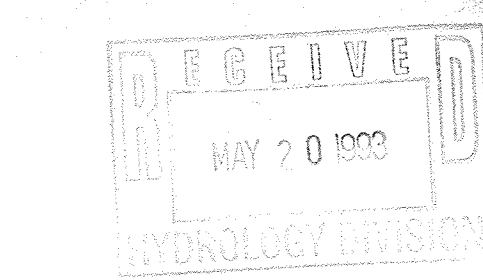
John P. Curtin, P.E.  
PWD/Hydrology

WPHYD+7631;jpc



USERNAME: CDP\CS229240.PADJ  
FILENAME: STORM.GRF

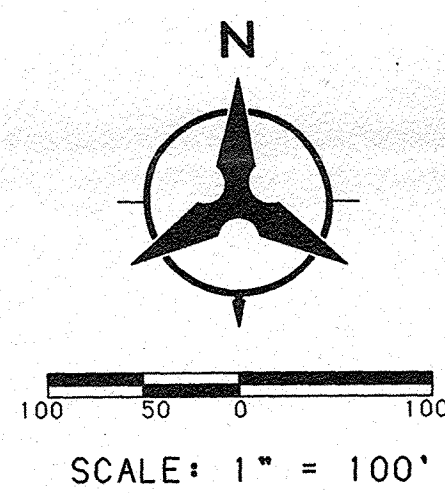
SCALE: 1" = 50' (HORIZ.)  
1" = 10' (VERT.)



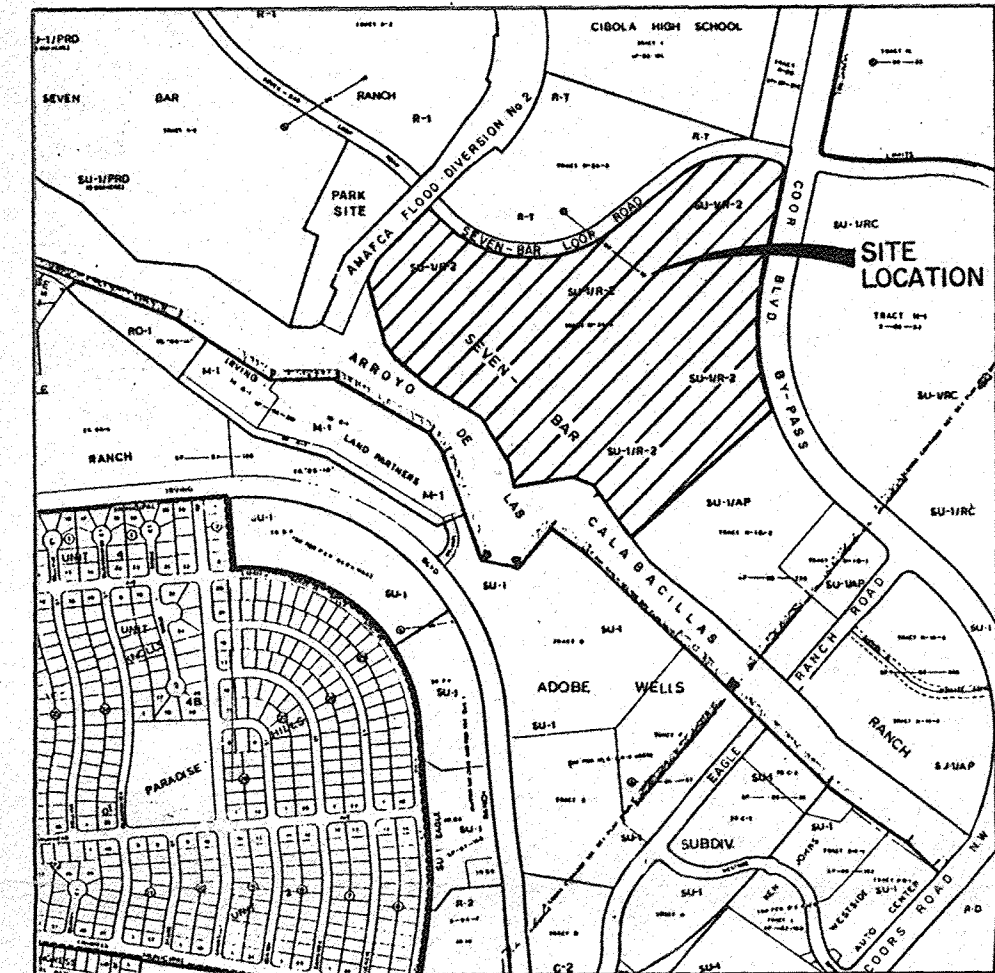
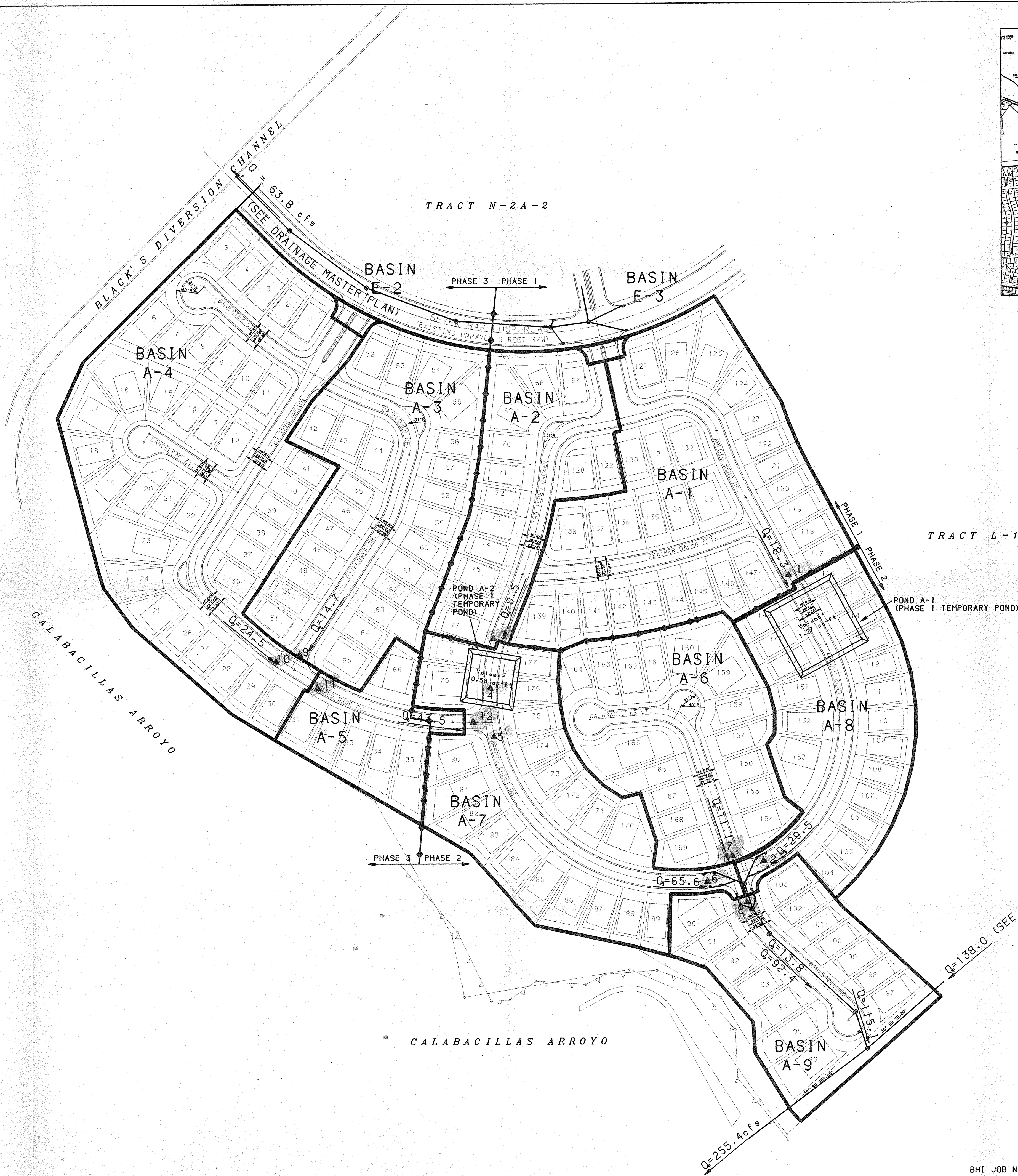
|                                                                                                 |          |              |             |                |      |
|-------------------------------------------------------------------------------------------------|----------|--------------|-------------|----------------|------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING                                   |          |              |             |                |      |
| THE TRAILS AT SEVEN BAR<br>OUTFALL STORM DRAIN PLAN & PROFILE<br>STA. 00+00.00 TO STA. 00+00.00 |          |              |             |                |      |
| APPROVALS                                                                                       | ENGINEER | DATE         | APPROVALS   | ENGINEER       | DATE |
| DRC CHAIRMAN                                                                                    |          |              | WATER       |                |      |
| TRANSPORTATION                                                                                  |          |              | WASTE WATER |                |      |
| HYDROLOGY                                                                                       |          |              |             |                |      |
| DRAWING NO. 0000                                                                                |          | MAP NO. 0000 |             | SHEET 00 OF 00 |      |

| ENGINEER'S SEAL |  |  | SURVEY INFORMATION |    | BENCH MARKS |                                                                                                                               | AS-BUILT INFORMATION      |      |
|-----------------|--|--|--------------------|----|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|------|
|                 |  |  | NO.                | BY | DATE        | A U.S. DEPT. OF THE INTERIOR GEOLOGICAL SURVEY BENCH MARK. TOP OF A N.M.S.H.D. RIGHT-OF-WAY MARKER ("T" RAIL).                | CONTRACTOR                | NO.  |
|                 |  |  |                    |    |             |                                                                                                                               |                           |      |
|                 |  |  | NO.                | BY | DATE        | STA. 106+50. LOCATED ON THE EASTERLY RIGHT-OF-WAY OF NEW MEXICO STATE HWY. 14. SEA LEVEL - DATUM OF 1929 ELEVATION = 6559.63' | INSPECTOR'S FIELD PAGE BY | DATE |
|                 |  |  |                    |    |             |                                                                                                                               |                           |      |
|                 |  |  | NO.                | BY | DATE        | DESIGNED BY                                                                                                                   | MICRO-FILM INFORMATION    | NO.  |
|                 |  |  |                    |    |             |                                                                                                                               |                           |      |
|                 |  |  | NO.                | BY | DATE        | DRAWN BY                                                                                                                      | RECORDED BY               | DATE |
|                 |  |  |                    |    |             |                                                                                                                               |                           |      |
|                 |  |  | NO.                | BY | DATE        | CHECKED BY                                                                                                                    |                           | DATE |
|                 |  |  |                    |    |             |                                                                                                                               |                           |      |

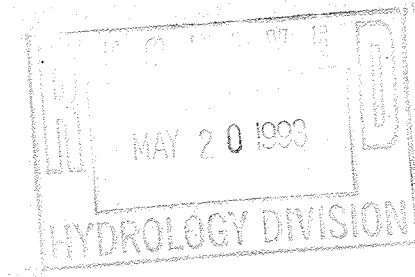




| LEGEND                              |                        |
|-------------------------------------|------------------------|
| PROJECT BOUNDARY                    | ---                    |
| PHASE BOUNDARY                      | —◆—                    |
| EXISTING CONTOUR                    | ---                    |
| EXISTING SPOT ELEVATION             | ○19.25                 |
| PROPOSED SPOT ELEVATION             | ●05.70                 |
| DIRECTION OF FLOW                   | →S=2.564%              |
| BASIN BOUNDARY                      | ---                    |
| SUB-BASIN BOUNDARY                  | ---                    |
| PROPOSED RETAINING WALL             | ---                    |
| EXISTING STORM DRAIN LINE           | —SD—                   |
| EXISTING STORM DRAIN MANHOLE        | ⊙                      |
| EXISTING STORM DRAIN INLET          | □                      |
| PROPOSED STORM DRAIN LINE           | —SD—                   |
| PROPOSED STORM DRAIN MANHOLE        | ⊙                      |
| PROPOSED STORM DRAIN INLET          | ■                      |
| STREET FLOW, 100 YEAR STORM         | Q <sub>s</sub> =5.0CFS |
| PIPE FLOW, 100 YEAR STORM           | Q <sub>p</sub> =5.0CFS |
| SHEET FLOW, 100 YEAR STORM          | Q=5.5CFS               |
| ANALYSIS POINT                      | ▲12                    |
| *ALL FLOWS SHOWN ARE 100 YEAR EVENT |                        |



NOTE: ALL FLOWS SHOWN ARE IN CUBIC FEET PER SECOND (cfs) FOR A 100 - YEAR STORM

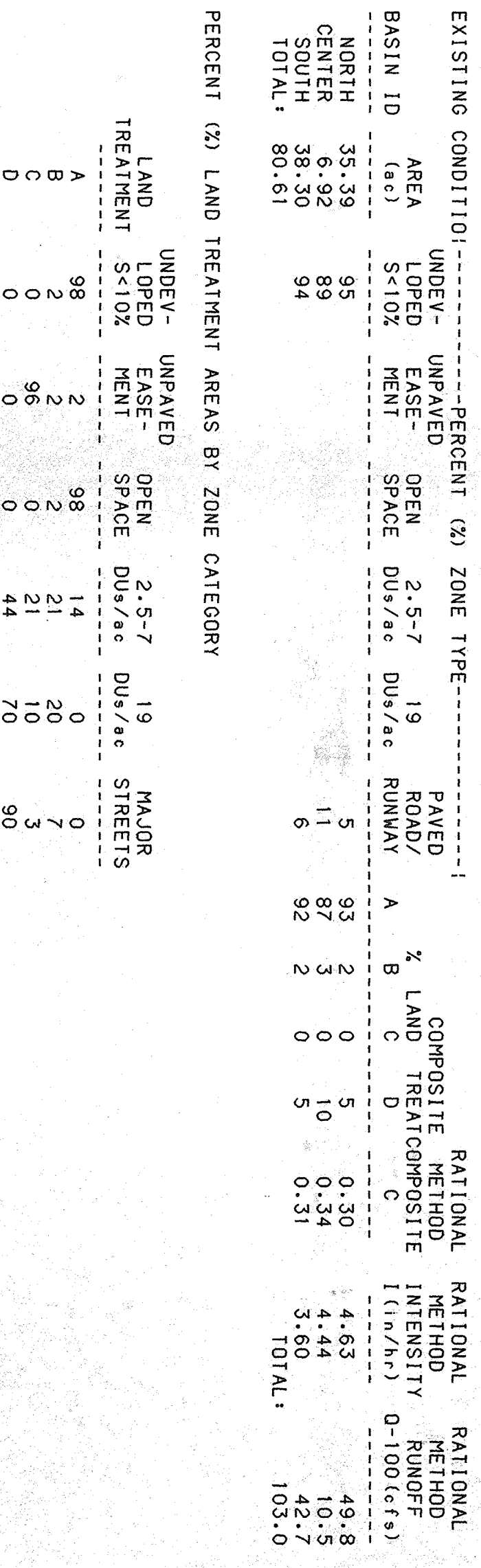


|                                                                     |          |             |              |          |      |
|---------------------------------------------------------------------|----------|-------------|--------------|----------|------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING GROUP |          |             |              |          |      |
| THE TRAILS AT SEVEN BAR SOUTH<br>BASIN MAP (DEVELOPED CONDITIONS)   |          |             |              |          |      |
| APPROVALS                                                           | ENGINEER | DATE        | APPROVALS    | ENGINEER | DATE |
| DRC CHAIRMAN                                                        |          |             | WATER        |          |      |
| TRANSPORTATION                                                      |          |             | WASTE WATER  |          |      |
| HYDROLOGY                                                           |          |             |              |          |      |
| DRAWING NO.                                                         | XXXX     | MAP NO. B13 | SHEET 1 OF 3 |          |      |

| AS BUILT INFORMATION   |  | BENCH MARKS                                                                                                                                                                                                                   |  | SURVEY INFORMATION |      | ENGINEER'S SEAL |  | BY |  | REVISIONS |      | DESIGNED BY |      | DRAWN BY |      | CHECKED BY |      |
|------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|------|-----------------|--|----|--|-----------|------|-------------|------|----------|------|------------|------|
| CONTRACTOR             |  | THE BENCH MARK IS A 3 1/4" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP AND IS STAMPED "ACS 1-C11 1986". THE BENCH MARK IS LOCATED APPROX. 210' EAST AND 260' NORTH OF THE INTERSECTION OF RIDGEWAY DR. AND CALLE NORTEVA, N.W. |  | NO.                | DATE |                 |  |    |  | NO.       | DATE | DF / JT     | DATE | DF       | DATE | JT         | DATE |
| INSPECTED BY           |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| DATE                   |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| VERIFICATION BY        |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| DATE                   |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| CORRECTED BY           |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| DATE                   |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| MICRO-FILM INFORMATION |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| RECORDED BY            |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| DATE                   |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |
| NO.                    |  |                                                                                                                                                                                                                               |  |                    |      |                 |  |    |  |           |      |             |      |          |      |            |      |



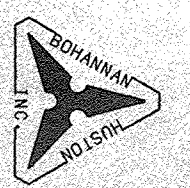
SCALE: 1" = 100'



| Location | Var.  | Unit | Basins | Basins | Basins |
|----------|-------|------|--------|--------|--------|
| 1. sin   | Agree |      | 36.34  | 38.34  | 38.34  |
| 2. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 3. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 4. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 5. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 6. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 7. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 8. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 9. sin   | Agree |      | 38.34  | 38.34  | 38.34  |
| 10. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 11. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 12. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 13. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 14. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 15. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 16. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 17. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 18. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 19. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 20. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 21. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 22. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 23. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 24. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 25. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 26. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 27. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 28. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 29. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 30. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 31. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 32. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 33. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 34. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 35. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 36. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 37. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 38. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 39. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 40. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 41. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 42. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 43. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 44. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 45. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 46. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 47. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 48. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 49. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 50. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 51. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 52. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 53. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 54. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 55. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 56. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 57. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 58. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 59. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 60. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 61. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 62. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 63. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 64. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 65. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 66. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 67. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 68. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 69. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 70. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 71. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 72. sin  | Agree |      | 38.34  | 38.34  | 38.34  |
| 73. sin  |       |      |        |        |        |

EXISTING CONTOUR  
EXISTING SPOT ELEVATION 025.42  
DIRECTION OF FLOW  
BASIN BOUNDARY

HYDROLOGICAL DIVISION  
MAY 20 1966  
I W E





THE FOLLOWING PHASING SEQUENCE IS THE BASIS OF THIS PLAN:

OUTFALL TO CALABACILLAS ARROYO.

REMOVAL OF RETENTION POND #1.

CONS A DRAINAGE SYSTEM) ACROSS TRACT L-1.

PER SAAD #223 PLANS (SEE NOTE BELOW)

RA

CIBOLA HIGH SCHOOL SITE

(FUTURE RESIDENTIAL DEVELOPMENT)

$$Q_{100}(\text{developed}) = 3.3 \text{ cfs}$$

$U_{\text{developed}} = 6.1 \text{ cts}$

五、

(SEVEN BAR LOOP ROAD)

$U_{\text{to(developed)}} = 0.1 \text{ cts}$

# 10.0/ALLES

(FUTURE RESIDENTIAL DEVELOPMENT)

$$Q_{100}(\text{developed}) = 59.7 \text{ cfs}$$

—

PROPOSED APARTMENT

DEVELOPMENT)

100 (100%)

EXIST STREET  
100 (developed) = 5.6 cts

2000

(COORS BYPASS-PHASE 4

Q 100 (developed) = 5.6 cfs

## TRACT H-1

108 Acres

IC00RS BYPASS-PHASE 4

DRAIN SYSTEM-SEE NOTE 1.

DECEMBER

(PROPOSED UNPAVED ACCESS:

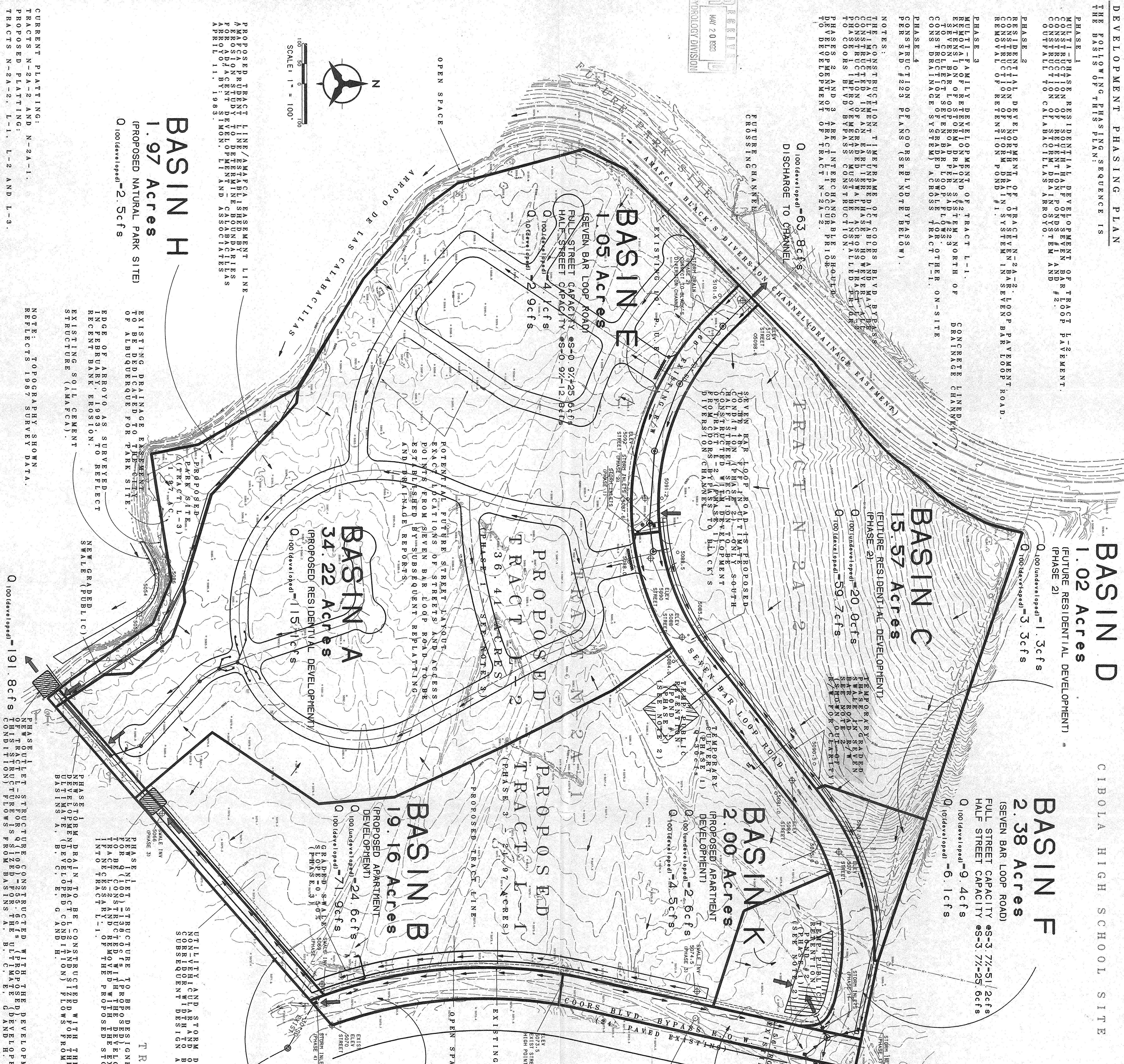
TRACT N-1B-2

# WILKINSON

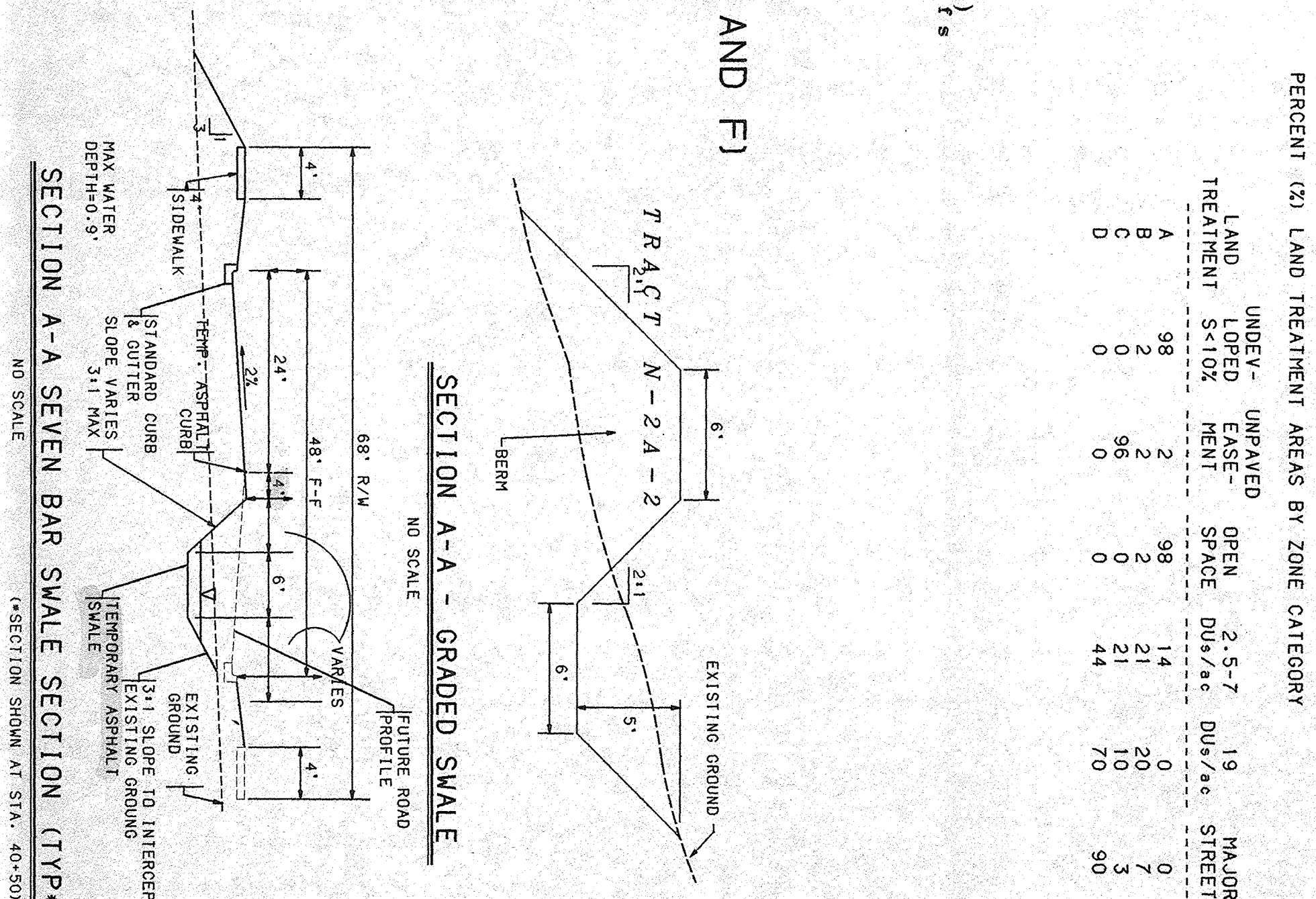
TRACT N-2A-2, SEVEN BAR RANCH

SHEET 2 OF 2

TEI 2



| HIDDEN GOLF BASIN SUMMARY DATA |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| SEVEN BAR RANCH                |  |  |  |  |  |  |  |  |  |  |  |  |
| 100% DEVELOPED CONDITIONS      |  |  |  |  |  |  |  |  |  |  |  |  |
| -PERCENT (2) ZONE TYPE--       |  |  |  |  |  |  |  |  |  |  |  |  |
| UNDEVELOPED                    |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-10% OPEN                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 10% OPEN                       |  |  |  |  |  |  |  |  |  |  |  |  |
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[illegible]